ATTACHMENT M

POST-EXCAVATION ANALYTICAL LABORATORY REPORTS

POST EXCAVATION BANK

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www.alsglobal.com

September 04, 2015

Analytical Report for Service Request No: K1508582

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Oregon Steel / C1144-0630

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory August 06, 2015
For your reference, these analyses have been assigned our service request number **K1508582.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Received:**	08/06/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 08/06/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory. Samples were prepared using ISM techniques prior to extraction.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Chromium, Lead, Manganese, and Zinc for sample BF-2-Split were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Chromium and Manganese in sample BF-2-Split was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria were not met for Aroclor 1260 in CAL 13624. The data quality was not affected. No further corrective action was necessary

Elevated Detection Limits:
This sample required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aroclor 1260 for this sample were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: K1508582

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PAGE 1 OF 1 COC #

PROJECT NAME: EVRAZ Oregon Steel
PROJECT NUMBER: 61144-0630
PROJECT MANAGER: Craig Heimbucher / Glenn Esler
COMPANY/ADDRESS: Integral Consulting Inc, 319 SW Washington St, Suite 1150
CITY/STATE/ZIP: Portland, OR 97204
E-MAIL ADDRESS: cheimbucher@integral-corp.com
PHONE #: 503-943-3629 FAX #: 503-284-5755
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ 8082	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐ Cotogeners☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals (Total or Dissolved) (See list below) 6020A	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐					REMARKS
BF-2-split	8/5/15	1505		soil	2					X				X										*

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

*Prepare sample using Incremental Sampling Methodology as detailed in SOP No.: GEN-SUB5. Please contact Glenn Esler (gesler@integral-corp.com) with questions.

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date/Time: 8/6/15 10:52	Signature: [signature] Date/Time: 8/6/15 10:52	Signature: Date/Time:	Signature: Date/Time:
Printed Name: Andrew Holmstad Firm: Integral	Printed Name: Dwight Firm: MS	Printed Name: Firm:	Printed Name: Firm:

RCOC #1 03/10

PC Greg

Cooler Receipt and Preservation Form

Client / Project: Integral Service Request K15 08582

Received: 8-6-15 Opened: 8-6-15 By: bw Unloaded: 8-6-15 By: bw

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.6	0.6	1.1	1.1	0	337			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Collected:**	08/5/15
Sample Matrix:	Soil	**Date Received:**	08/6/15
Analysis Method:	160.3 Modified	**Units:**	**Percent**
Prep Method:	None	**Basis:**	Air Dried

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-2-Split	K1508582-001	**95.9**	-	-	1	08/14/15 09:27	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project	Evraz Oregon Steel/C1144-0630	**Date Collected:**	08/05/15
Sample Matrix:	Soil	**Date Received:**	08/06/15
		Date Analyzed:	08/14/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: BF-2-Split **Units: Percent**
Lab Code: K1508582-001 **Basis:** Air Dried

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1508582-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	95.9	95.7		<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1508582
Project No.: C1144-0630
Date Collected: 8/5/2015
Project Name: Evraz Oregon Steel
Date Received: 8/6/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-2-Split
Lab Code: K1508582-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.51	0.04	5.0	08/18/15	08/20/15	6.54		
Cadmium	6020A	0.020	0.007	5.0	08/18/15	08/20/15	6.73		
Chromium	6020A	0.21	0.06	5.0	08/18/15	08/20/15	223		*
Copper	6020A	0.10	0.04	5.0	08/18/15	08/20/15	77.7		
Lead	6020A	0.10	0.02	5.0	08/18/15	08/20/15	582		
Manganese	6010C	0.21	0.02	2.0	08/18/15	08/26/15	3440		*
Zinc	6010C	1.0	0.2	2.0	08/18/15	08/26/15	2070		

% Solids: 95.9

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1508582
Project No.: C1144-0630
Date Collected:
Project Name: Evraz Oregon Steel
Date Received:
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1509037-02

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.04	5.0	08/18/15	08/20/15	0.04	U	
Cadmium	6020A	0.020	0.007	5.0	08/18/15	08/20/15	0.007	U	
Chromium	6020A	0.20	0.06	5.0	08/18/15	08/20/15	0.09	J	*
Copper	6020A	0.10	0.04	5.0	08/18/15	08/20/15	0.04	U	
Lead	6020A	0.10	0.02	5.0	08/18/15	08/20/15	0.02	U	
Manganese	6010C	0.20	0.02	2.0	08/18/15	08/26/15	0.03	J	
Zinc	6010C	1.0	0.2	2.0	08/18/15	08/26/15	0.2	U	

% Solids: 100.0

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic	25.0	26.1	104	25.0	25.6	102	25.9	104	6020A
Cadmium	12.5	12.9	103	25.0	24.5	98	24.0	96	6020A
Chromium	10.0	10.4	104	25.0	25.0	100	25.1	100	6020A
Copper	12.5	12.7	102	25.0	25.6	102	26.4	106	6020A
Lead	25.0	25.8	103	25.0	25.6	102	26.6	106	6020A
Manganese	10000	9823	98	1000	984	98	970	97	6010C
Manganese	1250	1265	101	250	249	100	250	100	6010C
Zinc	1250	1244	100	250	250	100	254	102	6010C

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	26.0	104	25.4	102	6020A
Cadmium				25.0	23.7	95	23.9	96	6020A
Chromium				25.0	25.3	101	26.0	104	6020A
Copper				25.0	26.7	107	26.9	108	6020A
Lead				25.0	26.6	106	26.7	107	6020A
Manganese				1000	984	98			6010C
Manganese				250	251	100			6010C
Zinc				250	254	102			6010C

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1508582

Contract: C1144-0630 **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICVS1									
	Arsenic	1.00	1.0	100	70.0 - 130.0	MS	8/20/2015	18:15	082015C
	Cadmium	0.042	0.04	105	70.0 - 130.0	MS	8/20/2015	18:15	082015C
	Chromium	0.41	0.4	102	70.0 - 130.0	MS	8/20/2015	18:15	082015C
	Copper	0.24	0.2	120	70.0 - 130.0	MS	8/20/2015	18:15	082015C
	Lead	0.108	0.10	108	70.0 - 130.0	MS	8/20/2015	18:15	082015C
LLCCVS1									
	Arsenic	1.04	1.0	104	70.0 - 130.0	MS	8/20/2015	20:09	082015C
	Cadmium	0.040	0.04	100	70.0 - 130.0	MS	8/20/2015	20:09	082015C
	Chromium	0.44	0.4	110	70.0 - 130.0	MS	8/20/2015	20:09	082015C
	Copper	0.22	0.2	110	70.0 - 130.0	MS	8/20/2015	20:09	082015C
	Lead	0.117	0.10	117	70.0 - 130.0	MS	8/20/2015	20:09	082015C
LLCCVS2									
	Arsenic	1.02	1.0	102	70.0 - 130.0	MS	8/20/2015	21:20	082015C
	Cadmium	0.037	0.04	92	70.0 - 130.0	MS	8/20/2015	21:20	082015C
	Chromium	0.43	0.4	108	70.0 - 130.0	MS	8/20/2015	21:20	082015C
	Copper	0.23	0.2	115	70.0 - 130.0	MS	8/20/2015	21:20	082015C
LLCCVS2 2X									
	Lead	0.253	0.20	126	70.0 - 130.0	MS	8/20/2015	21:25	082015C
LLICV1									
	Manganese	1.01	1.0	101	70.0 - 130.0	P	8/26/2015	09:42	082615AICP
	Zinc	3.9	4.0	98	70.0 - 130.0	P	8/26/2015	09:42	082615AICP
LLCCV1									
	Manganese	1.05	1.0	105	70.0 - 130.0	P	8/26/2015	11:04	082615AICP
	Zinc	4.0	4.0	100	70.0 - 130.0	P	8/26/2015	11:04	082615AICP

Metals

- 3 -

BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic	0.08	U	0.08	U	0.08	U	0.08	U	6020A
Cadmium	0.014	U	0.014	U	0.014	U	0.014	U	6020A
Chromium	0.12	U	0.12	U	0.12	U	0.12	U	6020A
Copper	0.08	U	0.08	U	0.08	U	0.08	U	6020A
Lead	0.04	U	0.04	U	0.04	U	0.04	U	6020A
Manganese	0.10	U	0.10	U	0.10	U	0.10	U	6010C
Zinc	1.00	U	1.00	U	1.00	U	1.00	U	6010C

Metals

- 3 -

BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic			0.08	U					6020A
Cadmium			0.014	U					6020A
Chromium			0.12	U					6020A
Copper			0.08	U					6020A
Lead			0.04	J					6020A

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: K-ICP-AES-03 **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Manganese		500	-2	472	94			
Zinc		1000	1	900	90			

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: Agilent ICPMS **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	25.0	0.1	26.0	104			
Cadmium	0.0	25.0	0.1	25.2	101			
Chromium	0.0	50.0	0.2	49.4	99			
Copper	0.0	50.0	0.4	49.9	100			
Lead	0.0		0.1	0.1				

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 95.9

Sample Name: BF-2-SplitS **Lab Code:** K1508582-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	75 - 125	112.81		6.54		102.8	103		6020A
Cadmium	75 - 125	17.525		6.732		10.3	105		6020A
Chromium		361.96		223.31		41.1	337		6020A
Copper	75 - 125	132.20		77.73		51.4	106		6020A
Lead		789.50		581.64		102.8	202		6020A
Manganese		5180		3440		102.80	1693		6010C
Zinc		2410		2070		102.80	331		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -
POST SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz Oregon Steel **Basis:** DRY

Matrix: WATER

Sample Name: **BF-2-SplitA** **Lab Code:** **K1508582-001A**

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	80 - 120	65.75		12.77		50.00	106		6020A
Cadmium	80 - 120	62.732		13.147		50.00	99		6020A
Chromium	80 - 120	495.46		436.10		50.00	119		6020A
Copper	80 - 120	205.37		151.79		50.00	107		6020A
Manganese	80 - 120	20960.00		16790.00		5000	83		6010C
Zinc	80 - 120	14190.00		10110.00		5000	82		6010C

Metals

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DUPLICATES

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 95.9

Sample Name: BF-2-SplitD **Lab Code:** K1508582-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	20	6.54		6.62		1.2		6020A
Cadmium	20	6.732		7.099		5.3		6020A
Chromium	20	223.31		154.49		36.4	*	6020A
Copper	20	77.73		83.49		7.1		6020A
Lead	20	581.64		635.26		8.8		6020A
Manganese	20	3440		2270		41.0	*	6010C
Zinc	20	2070		2190		5.6		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

Aqueous LCS Source: **Solid LCS Source:** **ERA D080-540**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				99.6	107.0	69	131	107
Cadmium				182.0	194.0	74	126	107
Chromium				136.0	153.0	70	130	112
Copper				102.0	115.0	74	126	113
Lead				115.0	129.0	72	129	112
Manganese				323	312	75	125	97
Zinc				161	150	81	119	93

Metals

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ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz Oregon Steel

Sample Name: **BF-2-SplitL** **Lab Code:** **K1508582-001L**

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	12.80		12.80		0.0		MS
Cadmium	13.100		12.900		1.5		MS
Chromium	436.00		427.00		2.1		MS
Copper	152.00		157.00		3.3		MS
Lead	1140.00		1180.00		3.5		MS
Manganese	16790.00		17495.50		4.2		P
Zinc	10110.00		11315.00		11.9	E	P

Metals

- 10 -

DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP/ICP-MS ID #:

GFAA ID #: **AA ID #:**

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Manganese	257.6		1.0	0.1	P
Zinc	206.2		5.0	1.0	P

Comments:

Metals

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DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP/ICP-MS ID #: Agilent ICPMS

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		1.00	0.08	MS
Cadmium	111		0.040	0.014	MS
Chromium	52		0.40	0.12	MS
Copper	65		0.20	0.08	MS
Lead	208		0.20	0.04	MS

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	B
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	217.581	0.0000000	0.0000000	-0.0009010	0.0000000	0.0000000
Arsenic	189.042	0.0000330	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000080	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	-0.0006800	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0001570	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000160	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000780	0.0000000	0.0000590	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000120	0.0000370	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	-0.0007840	0.0000000	0.0006520	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000110	0.0000000	0.0000440	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Zinc	213.856	0.0000000	0.0000000	0.0001170	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ba	Cd	Co	Cr	Cu
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	217.581	0.0000000	0.0000000	0.0000000	0.0004650	-0.0009350
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0005140	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0025890	0.0003110	0.0000000
Cadmium	226.502	0.0000000	0.0000000	-0.0000110	0.0000330	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	-0.0001480	0.0000000	0.0000000	0.0000000
Cobalt	228.616	-0.0001220	0.0000000	0.0000000	0.0000000	0.0000000
Copper	327.396	0.0000000	0.0000000	0.0002590	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0001270	0.0000000	0.0003500
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0001870	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	-0.0015740	0.0000000	0.0000000	0.0052080
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0031300	0.0003080	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	-0.0058770	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Zinc	213.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0010410

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Analyte	Wave-length (nm)	Interelement Correction Factors for: Mn	Mo	Ni	Sb	Si
Aluminum	394.401	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	217.581	-0.0007640	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	-0.0002720	0.0015570	0.0000000	0.0000000	0.0000000
Barium	455.403	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	-0.0000630	-0.0004470	-0.0000170	0.0000000	0.0000000
Boron	249.678	0.0000000	-0.0019240	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	-0.0000110	-0.0000150	0.0000000	0.0000000
Calcium	393.366	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000620	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	-0.0012500	0.0001140	0.0000000	0.0000000
Copper	327.396	0.0000000	-0.0002610	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	-0.0002450	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0007250	0.0002650	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	285.213	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	-0.0006320	0.0105360	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.0	0.0004420	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.611	0.0000000	0.0731890	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0001350	0.0001470	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0023580	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0006530	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	336.121	0.0000000	0.0000400	0.0001110	0.0000000	0.0000000
Vanadium	292.402	-0.0011210	-0.0000900	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Zinc	213.856	0.0000000	0.0000000	0.0056230	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	V			
Aluminum	394.401	0.0000000	0.0000000			
Antimony	217.581	0.0000000	0.0021710			
Arsenic	189.042	0.0000000	0.0001150			
Barium	455.403	0.0000000	0.0000000			
Beryllium	234.861	0.0000000	0.0000000			
Boron	249.678	0.0000000	-0.0005070			
Cadmium	226.502	0.0001270	0.0000000			
Calcium	393.366	0.0000000	0.0000000			
Chromium	267.716	0.0000000	-0.0000640			
Cobalt	228.616	0.0024440	0.0000000			
Copper	327.396	0.0001170	-0.0000910			
Iron	259.94	0.0000000	0.0000000			
Lead	220.353	0.0000000	0.0000000			
Lithium	670.784	0.0000000	0.0000000			
Magnesium	285.213	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Molybdenum	202.03	0.0000000	0.0000000			
Nickel	231.604	0.0000000	0.0000000			
Phosphorus	214.914	0.0000000	-0.0020860			
Potassium	766.491	0.0000000	0.0000000			
Selenium	196.0	0.0000000	0.0000000			
Silicon	251.611	0.0000000	0.0000000			
Silver	328.068	0.0000000	0.0000780			
Sodium	589.592	0.0000000	0.0000000			
Strontium	407.771	0.0000000	0.0000000			
Thallium	190.856	-0.0005060	0.0002630			
Tin	189.989	0.0000000	0.0000000			
Titanium	336.121	0.0000000	0.0000000			
Vanadium	292.402	0.0004260	0.0000000			

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Zinc	213.856	0.0000000	0.0000000			

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: **K-ICP-AES-03**

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Manganese	15.000	180000	6010C
Zinc	15.000	18000	6010C

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

ICP ID Number: Agilent ICPMS

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	1.000	3000	6020A
Cadmium	1.000	3000	6020A
Chromium	0.300	3000	6020A
Copper	0.300	3000	6020A
Lead	0.300	3000	6020A

Comments:

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1508582-001	8/18/2015	1.02	100.0
K1508582-001D	8/18/2015	1.01	100.0
K1508582-001S	8/18/2015	1.01	100.0
KQ1509037-01	8/18/2015	1.05	100.0
KQ1509037-02	8/18/2015	1.00	100.0

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630

Project Name: Evraz Oregon Steel

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1508582-001	8/18/2015	1.02	100.0
K1508582-001D	8/18/2015	1.01	100.0
K1508582-001S	8/18/2015	1.01	100.0
KQ1509037-01	8/18/2015	1.05	100.0
KQ1509037-02	8/18/2015	1.00	100.0

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Run Number:** 082615AICP03

Project Name: Evraz Oregon Steel

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 8/26/2015 **End Date:** 8/26/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
BLK	1.0	09:17															X									X	
STD A	1.0	09:19															X									X	
STD B	1.0	09:21															X										
ICV1	1.0	09:24															X										
ICV1	1.0	09:26															X									X	
ZZZZZZ	1.0	09:30																									
ICB1	1.0	09:40															X									X	
LLICV1	1.0	09:42															X									X	
ZZZZZZ	1.0	09:45																									
ZZZZZZ	1.0	09:47																									
CCV1	1.0	09:51															X										
CCV1	1.0	09:56															X									X	
CCB1	1.0	10:02															X									X	
ICS-A1	1.0	10:05															X									X	
ICS-AB1	1.0	10:08															X									X	
ZZZZZZ	1.0	10:11																									
CCV2	1.0	10:14															X										
CCV2	1.0	10:17															X									X	
CCB2	1.0	10:19															X									X	
KQ1509037-02	2.0	10:26															X									X	
KQ1509037-01	2.0	10:28															X									X	
K1508582-001	2.0	10:30															X									X	
K1508582-001L	10.0	10:33															X									X	
K1508582-001D	2.0	10:36															X									X	
K1508582-001S	2.0	10:38															X									X	
K1508582-001A	2.0	10:44															X									X	
ZZZZZZ	1.0	10:47																									
ZZZZZZ	1.0	10:50																									
ZZZZZZ	1.0	10:52																									
CCV3	1.0	10:57															X										
CCV3	1.0	11:00															X									X	
CCB3	1.0	11:02															X									X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Run Number:** 082615AICP03

Project Name: Evraz Oregon Steel

Instrument ID Number: K-ICP-AES-03 **Method:** P

Start Date: 8/26/2015 **End Date:** 8/26/2015

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
LLCCV1	1.0	11:04															X									X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Run Number:** 082015C

Project Name: Evraz Oregon Steel

Instrument ID Number: Agilent ICPMS **Method:** MS

Start Date: 8/20/2015 **End Date:** 8/20/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	17:46				X			X		X		X		X												
25ppb	1.0	17:52				X			X		X		X		X												
ICV1	1.0	17:56				X			X		X		X		X												
CCV1	1.0	18:01				X			X		X		X		X												
ICB1	1.0	18:06				X			X		X		X		X												
CCB1	1.0	18:10				X			X		X		X		X												
LLICVS1	1.0	18:15				X			X		X		X		X												
ICS-A1	1.0	18:20				X			X		X		X		X												
ICS-AB1	1.0	18:25				X			X		X		X		X												
ZZZZZZ	1.0	18:29																									
ZZZZZZ	1.0	18:34																									
ZZZZZZ	1.0	18:39																									
ZZZZZZ	1.0	18:44																									
ZZZZZZ	5.0	18:48																									
ZZZZZZ	1.0	18:53																									
ZZZZZZ	1.0	18:58																									
ZZZZZZ	5.0	19:03																									
ZZZZZZ	1.0	19:08																									
ZZZZZZ	1.0	19:12																									
ZZZZZZ	1.0	19:17																									
CCV2	1.0	19:22				X			X		X		X		X												
ZZZZZZ	1.0	19:26																									
ZZZZZZ	1.0	19:31																									
CCB2	1.0	19:36				X			X		X		X		X												
ZZZZZZ	1.0	19:41																									
ZZZZZZ	1.0	19:45																									
ZZZZZZ	1.0	19:50																									
ZZZZZZ	1.0	19:55																									
CCV3	1.0	20:00				X			X		X		X		X												
CCB3	1.0	20:04				X			X		X		X		X												
LLCCVS1	1.0	20:09				X			X		X		X		X												
ZZZZZZ	1.0	20:14																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508582

Project No.: C1144-0630 **Run Number:** 082015C

Project Name: Evraz Oregon Steel

Instrument ID Number: Agilent ICPMS **Method:** MS

Start Date: 8/20/2015 **End Date:** 8/20/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	20:19																									
ZZZZZZ	1.0	20:23																									
KQ1509037-02	5.0	20:28				X			X		X		X		X												
K1508582-001	5.0	20:33				X			X		X		X		X												
K1508582-001D	5.0	20:38				X			X		X		X		X												
K1508582-001L	5.0	20:42				X			X		X		X		X												
K1508582-001A	5.0	20:47				X			X		X		X														
K1508582-001S	5.0	20:51				X			X		X		X		X												
KQ1509037-01	20.0	20:56				X			X		X		X		X												
CCV4	1.0	21:01				X			X		X		X		X												
ZZZZZZ	1.0	21:06																									
CCB4	1.0	21:10				X			X		X		X		X												
ZZZZZZ	1.0	21:15																									
LLCCVS2	1.0	21:20				X			X		X		X														
LLCCVS2 2X	1.0	21:25													X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1508582

ICP-MS Instrument ID: Agilent ICPMS Start Date: 08/20/2015 End Date: 08/20/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge 72_He	Q	Element Rh103_He	Q	Element Lu175_He	Q	Element	Q	Element	Q	Element	Q
Blank	Blank	1746	100		100		100							
25ppb	25ppb	1752	99		99		101							
ICV1	ICV	1756	100		101		101							
CCV1	CCV	1801	92		96		98							
ICB1	ICB	1806	95		97		99							
CCB1	CCB	1810	87		93		95							
LLICVS1	LLICVS1	1815	85		92		95							
ICS-A1	ICSA	1820	84		86		93							
ICS-AB1	ICSAB	1825	84		86		92							
ZZZZZZ	ZZZZZZ	1829												
ZZZZZZ	ZZZZZZ	1834												
ZZZZZZ	ZZZZZZ	1839												
ZZZZZZ	ZZZZZZ	1844												
ZZZZZZ	ZZZZZZ	1848												
ZZZZZZ	ZZZZZZ	1853												
ZZZZZZ	ZZZZZZ	1858												
ZZZZZZ	ZZZZZZ	1903												
ZZZZZZ	ZZZZZZ	1908												
ZZZZZZ	ZZZZZZ	1912												
ZZZZZZ	ZZZZZZ	1917												
CCV2	CCV	1922	82		93		94							
ZZZZZZ	ZZZZZZ	1926												
ZZZZZZ	ZZZZZZ	1931												
CCB2	CCB	1936	81		91		93							
ZZZZZZ	ZZZZZZ	1941												
ZZZZZZ	ZZZZZZ	1945												
ZZZZZZ	ZZZZZZ	1950												
ZZZZZZ	ZZZZZZ	1955												
CCV3	CCV	2000	80		92		94							
CCB3	CCB	2004	80		91		95							
LLCCVS1	LLCCVS1	2009	80		92		93							
ZZZZZZ	ZZZZZZ	2014												
ZZZZZZ	ZZZZZZ	2019												
ZZZZZZ	ZZZZZZ	2023												
KQ1509037-02	Method Blank	2028	81		92		95							
K1508582-001	BF-2-Split	2033	79		85		93							
K1508582-001D	BF-2-SplitD	2038	79		87		95							
K1508582-001L	BF-2-SplitL	2042	80		88		94							
K1508582-001A	BF-2-SplitA	2047	78		86		92							
K1508582-001S	BF-2-SplitS	2051	77		85		92							
KQ1509037-01	Lab Control	2056	79		87		93							
CCV4	CCV	2101	79		91		93							
ZZZZZZ	ZZZZZZ	2106												
CCB4	CCB	2110	80		89		94							

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1508582

ICP-MS Instrument ID: Agilent ICPMS Start Date: 08/20/2015 End Date: 08/20/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge 72_He	Q	Element Rh103_He	Q	Element Lu175_He	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2115												
LLCCVS2	LLCCVS2	2120	78		92		93							
LLCCVS2 2X	LLCCVS2 2X	2125	81		88		93							

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BF-2-Split	K1508582-001	08/05/2015	08/06/2015
BF-2-SplitMS	KWG1507646-1	08/05/2015	08/06/2015
BF-2-SplitDMS	KWG1507646-2	08/05/2015	08/06/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Collected:**	08/05/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-2-Split	**Units:**	ug/Kg
Lab Code:	K1508582-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1221	ND	U	70	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1232	ND	U	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1242	ND	U	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1248	**2100**	D	140	42	20	08/17/15	08/28/15	KWG1507646	
Aroclor 1254	**1900**	D	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1260	**1100**	D	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1262	ND	U	35	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1268	ND	U	35	11	5	08/17/15	08/26/15	KWG1507646	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	114	43-148	08/26/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1507646-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1221	ND	U	9.9	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1232	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1242	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1248	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1254	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1260	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1262	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1268	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	88	43-148	08/25/15	Acceptable

Comments:

QA/QC Report

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630
Sample Matrix: Soil

Service Request: K1508582

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
BF-2-Split	K1508582-001	114 D
Method Blank	KWG1507646-4	88
BF-2-SplitMS	KWG1507646-1	105 D
BF-2-SplitDMS	KWG1507646-2	81 D
Lab Control Sample	KWG1507646-3	76

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/26/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-2-Split	**Units:**	ug/Kg
Lab Code:	K1508582-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

		BF-2-SplitMS KWG1507646-1 Matrix Spike			BF-2-SplitDMS KWG1507646-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	199	138	143	183	139	132	23-145	8	40
Aroclor 1260	1100	1120	138	2 #	857	139	-191 #	24-148	27	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1507646

	Lab Control Sample KWG1507646-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	120	200	60	42-122
Aroclor 1260	152	200	76	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015
		Time Analyzed:	13:01

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1507646-4	**File ID:**	J:\GC27\DATA\082515.B\0825F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1507646-3	J:\GC27\DATA\082515.B\0825F005.D	08/25/15	12:38
BF-2-Split	K1508582-001	J:\GC27\DATA\082615.B\0826F022.D	08/26/15	21:04
BF-2-SplitMS	KWG1507646-1	J:\GC27\DATA\082615.B\0826F023.D	08/26/15	21:28
BF-2-SplitDMS	KWG1507646-2	J:\GC27\DATA\082615.B\0826F024.D	08/26/15	21:51
BF-2-Split	K1508582-001	J:\GC27\DATA\082815.B\0828F006.D	08/28/15	14:37

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015
		Time Analyzed:	12:38

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1507646-3	**File ID:**	J:\GC27\DATA\082515.B\0825F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1507646-4	J:\GC27\DATA\082515.B\0825F006.D	08/25/15	13:01
BF-2-Split	K1508582-001	J:\GC27\DATA\082615.B\0826F022.D	08/26/15	21:04
BF-2-SplitMS	KWG1507646-1	J:\GC27\DATA\082615.B\0826F023.D	08/26/15	21:28
BF-2-SplitDMS	KWG1507646-2	J:\GC27\DATA\082615.B\0826F024.D	08/26/15	21:51
BF-2-Split	K1508582-001	J:\GC27\DATA\082815.B\0828F006.D	08/28/15	14:37

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	160000	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3410	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2790	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8650	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4330	-13	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4470	-14	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	440	9850	8710	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7690	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7830	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	17900	-5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	14000	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-6	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	49	82400	80500	-2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	420	1840	1540	-16	NA	± 100	AverageRF
Aroclor 1016 {2}	500	420	2430	2050	-16	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2390	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1780	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-18	± 20	NA
Aroclor 1260 {1}	500	440	2210	1960	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3590	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3460	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8320	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5620	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F013.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	165000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3390	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2820	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8630	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4480	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4650	-10	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	8010	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8170	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F013.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81500	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1490	-19	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	1990	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	390	3000	2350	-22	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1760	-20	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	400	NA	NA	NA	-20	± 20	NA
Aroclor 1260 {1}	500	440	2210	1950	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3640	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3430	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8320	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5500	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F019.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	161000	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	3590	3220	-10	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	3000	2710	-9	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	9890	8190	-17	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	4960	4200	-15	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	5180	4340	-16	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-14	± 20	NA
Aroclor 1260 {1}	500	430	9850	8520	-14	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7600	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7710	-6	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18000	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	13900	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-6	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F019.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81900	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1590	-14	NA	± 100	AverageRF
Aroclor 1016 {2}	500	440	2430	2120	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1820	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1790	-17	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-16	± 20	NA
Aroclor 1260 {1}	500	450	2210	1980	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3600	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3430	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8410	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5480	-2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F025.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	167000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3500	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2840	-5	NA	± 100	AverageRF
Aroclor 1016 {3}	500	470	9890	9230	-7	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4500	-9	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4650	-10	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-7	± 20	NA
Aroclor 1260 {1}	500	470	9850	9170	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	7990	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8130	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F025.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	83500	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	440	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2170	-11	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1870	-15	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	2160	1830	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-14	± 20	NA
Aroclor 1260 {1}	500	460	2210	2040	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	3780	3800	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3540	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8580	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5670	1	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	166000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	3590	3600	0	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2960	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9140	-8	NA	± 100	AverageRF
Aroclor 1016 {4}	500	480	4960	4720	-5	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4790	-7	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	470	9850	9180	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8080	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8160	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18700	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14500	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81700	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1520	-17	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	2010	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2390	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1780	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-19	± 20	NA
Aroclor 1260 {1}	500	450	2210	1960	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3630	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3460	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8400	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5630	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F015.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	167000	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3550	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	3000	3010	0	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9020	-9	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4600	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4700	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	460	9850	9120	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	8020	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8180	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14600	3	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630

Service Request: K1508582
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F015.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81700	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1510	-18	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	1990	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	390	3000	2330	-22	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1760	-20	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	400	NA	NA	NA	-20	± 20	NA
Aroclor 1260 {1}	500	440	2210	1930	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	3780	3570	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3450	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8410	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5480	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508064
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0825F003.D	Continuing Calibration Verification	KWG1508064-1	8/25/2015	11:51		8/25/2015	11:51
0825F004.D	Instrument Blank	KWG1508064-2	8/25/2015	12:14		8/25/2015	12:14
0825F005.D	Lab Control Sample	KWG1507646-3	8/25/2015	12:38		8/25/2015	12:38
0825F006.D	Method Blank	KWG1507646-4	8/25/2015	13:01		8/25/2015	13:01
0825F011.D	ZZZZZZ	ZZZZZZ	8/25/2015	14:59		8/25/2015	14:59
0825F012.D	ZZZZZZ	ZZZZZZ	8/25/2015	15:23		8/25/2015	15:23
0825F013.D	Continuing Calibration Verification	KWG1508064-3	8/25/2015	15:46		8/25/2015	15:46
0825F014.D	Instrument Blank	KWG1508064-4	8/25/2015	16:10		8/25/2015	16:10
0825F015.D	ZZZZZZ	ZZZZZZ	8/25/2015	16:33		8/25/2015	16:33
0825F016.D	ZZZZZZ	ZZZZZZ	8/25/2015	16:57		8/25/2015	16:57
0825F017.D	ZZZZZZ	ZZZZZZ	8/25/2015	17:20		8/25/2015	17:20
0825F018.D	ZZZZZZ	ZZZZZZ	8/25/2015	17:44		8/25/2015	17:44
0825F019.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:08		8/25/2015	18:08
0825F020.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:31		8/25/2015	18:31
0825F021.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:55		8/25/2015	18:55
0825F022.D	ZZZZZZ	ZZZZZZ	8/25/2015	19:18		8/25/2015	19:18
0825F027.D	Continuing Calibration Verification	KWG1508064-5	8/25/2015	21:16		8/25/2015	21:16
0825F028.D	Instrument Blank	KWG1508064-6	8/25/2015	21:39		8/25/2015	21:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508158
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0826F003.D	Continuing Calibration Verification	KWG1508158-1	8/26/2015	13:36		8/26/2015	13:36
0826F004.D	Instrument Blank	KWG1508158-2	8/26/2015	14:00		8/26/2015	14:00
0826F005.D	ZZZZZZ	ZZZZZZ	8/26/2015	14:23		8/26/2015	14:23
0826F006.D	ZZZZZZ	ZZZZZZ	8/26/2015	14:47		8/26/2015	14:47
0826F007.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:11		8/26/2015	15:11
0826F008.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:34		8/26/2015	15:34
0826F009.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:58		8/26/2015	15:58
0826F010.D	ZZZZZZ	ZZZZZZ	8/26/2015	16:21		8/26/2015	16:21
0826F011.D	ZZZZZZ	ZZZZZZ	8/26/2015	16:45		8/26/2015	16:45
0826F012.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:09		8/26/2015	17:09
0826F013.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:32		8/26/2015	17:32
0826F014.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:56		8/26/2015	17:56
0826F015.D	ZZZZZZ	ZZZZZZ	8/26/2015	18:20		8/26/2015	18:20
0826F016.D	ZZZZZZ	ZZZZZZ	8/26/2015	18:43		8/26/2015	18:43
0826F017.D	ZZZZZZ	ZZZZZZ	8/26/2015	19:07		8/26/2015	19:07
0826F018.D	ZZZZZZ	ZZZZZZ	8/26/2015	19:30		8/26/2015	19:30
0826F019.D	Continuing Calibration Verification	KWG1508158-3	8/26/2015	19:54		8/26/2015	19:54
0826F020.D	Instrument Blank	KWG1508158-4	8/26/2015	20:17		8/26/2015	20:17
0826F021.D	ZZZZZZ	ZZZZZZ	8/26/2015	20:41		8/26/2015	20:41
0826F022.D	BF-2-Split	K1508582-001	8/26/2015	21:04		8/26/2015	21:04
0826F023.D	BF-2-SplitMS	KWG1507646-1	8/26/2015	21:28		8/26/2015	21:28
0826F024.D	BF-2-SplitDMS	KWG1507646-2	8/26/2015	21:51		8/26/2015	21:51
0826F025.D	Continuing Calibration Verification	KWG1508158-5	8/26/2015	22:15		8/26/2015	22:15
0826F026.D	Instrument Blank	KWG1508158-6	8/26/2015	22:38		8/26/2015	22:38

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508233
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0828F003.D	Continuing Calibration Verification	KWG1508233-1	8/28/2015	13:26		8/28/2015	13:26
0828F004.D	Instrument Blank	KWG1508233-2	8/28/2015	13:50		8/28/2015	13:50
0828F005.D	ZZZZZZ	ZZZZZZ	8/28/2015	14:13		8/28/2015	14:13
0828F006.D	BF-2-Split	K1508582-001	8/28/2015	14:37		8/28/2015	14:37
0828F007.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:00		8/28/2015	15:00
0828F008.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:24		8/28/2015	15:24
0828F009.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:48		8/28/2015	15:48
0828F010.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:11		8/28/2015	16:11
0828F011.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:35		8/28/2015	16:35
0828F012.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:59		8/28/2015	16:59
0828F013.D	ZZZZZZ	ZZZZZZ	8/28/2015	17:22		8/28/2015	17:22
0828F014.D	ZZZZZZ	ZZZZZZ	8/28/2015	17:46		8/28/2015	17:46
0828F015.D	Continuing Calibration Verification	KWG1508233-3	8/28/2015	18:09		8/28/2015	18:09
0828F016.D	Instrument Blank	KWG1508233-4	8/28/2015	18:33		8/28/2015	18:33
0828F017.D	ZZZZZZ	ZZZZZZ	8/28/2015	18:57		8/28/2015	18:57
0828F018.D	ZZZZZZ	ZZZZZZ	8/28/2015	19:20		8/28/2015	19:20
0828F019.D	ZZZZZZ	ZZZZZZ	8/28/2015	19:44		8/28/2015	19:44
0828F020.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:07		8/28/2015	20:07
0828F021.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:31		8/28/2015	20:31
0828F022.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:55		8/28/2015	20:55
0828F023.D	ZZZZZZ	ZZZZZZ	8/28/2015	21:18		8/28/2015	21:18
0828F025.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:05		8/28/2015	22:05
0828F026.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:29		8/28/2015	22:29
0828F027.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:52		8/28/2015	22:52
0828F028.D	ZZZZZZ	ZZZZZZ	8/28/2015	23:16		8/28/2015	23:16
0828F029.D	ZZZZZZ	ZZZZZZ	8/28/2015	23:40		8/28/2015	23:40
0828F030.D	ZZZZZZ	ZZZZZZ	8/29/2015	00:03		8/29/2015	00:03
0828F031.D	Continuing Calibration Verification	KWG1508233-5	8/29/2015	00:27		8/29/2015	00:27
0828F032.D	Instrument Blank	KWG1508233-6	8/29/2015	00:51		8/29/2015	00:51
0828F033.D	ZZZZZZ	ZZZZZZ	8/29/2015	01:14		8/29/2015	01:14
0828F034.D	ZZZZZZ	ZZZZZZ	8/29/2015	01:38		8/29/2015	01:38
0828F035.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:01		8/29/2015	02:01
0828F036.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:25		8/29/2015	02:25
0828F037.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:49		8/29/2015	02:49
0828F038.D	ZZZZZZ	ZZZZZZ	8/29/2015	03:12		8/29/2015	03:12

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1508582
Project: Evraz Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508233
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0828F039.D	ZZZZZZ	ZZZZZZ	8/29/2015	03:36		8/29/2015	03:36
0828F040.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:00		8/29/2015	04:00
0828F041.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:23		8/29/2015	04:23
0828F042.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:47		8/29/2015	04:47
0828F043.D	ZZZZZZ	ZZZZZZ	8/29/2015	05:11		8/29/2015	05:11
0828F044.D	ZZZZZZ	ZZZZZZ	8/29/2015	05:34		8/29/2015	05:34
0828F045.D	Continuing Calibration Verification	KWG1508233-7	8/29/2015	05:58		8/29/2015	05:58
0828F046.D	Instrument Blank	KWG1508233-8	8/29/2015	06:21		8/29/2015	06:21

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel/C1144-0630
Sample Matrix: Soil

Service Request: K1508582
Date Extracted: 08/17/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1507646
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-2-Split	K1508582-001	08/05/15	08/06/15	30.0864g	4ml	95.9	
BF-2-SplitDL	K1508582-001	08/05/15	08/06/15	30.0864g	4ml	95.9	
Method Blank	KWG1507646-4	NA	NA	40.441g	4ml	NA	
BF-2-SplitMS	KWG1507646-1	08/05/15	08/06/15	30.1159g	4ml	95.9	
BF-2-SplitDMS	KWG1507646-2	08/05/15	08/06/15	30.0519g	4ml	95.9	
Lab Control Sample	KWG1507646-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508582
Project:	Evraz Oregon Steel/C1144-0630	**Date Collected:**	08/05/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015
		Date Extracted:	08/17/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-2-Split	**Units:**	ug/Kg
Lab Code:	K1508582-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	140	42	2100	2800	28.6	D	20	08/28/15
Aroclor 1254	35	11	1900	2100	10.0	D	5	08/26/15
Aroclor 1260	35	11	1100	1100	0.0	D	5	08/26/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1508582, KQ1508965**	**Run #:**	**457762**
Test:	**TS-Air Dried**	**Balance ID:**	**K-Balance-21B**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1508582-001	1.30	10.00	10.89	9.59	95.9	
	K1508582-001DUP	1.30	10.11	10.98	9.68	95.7	<1

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	8/14/2015	09:27	8/17/2015	07:57	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	1.00, 100.02	1.01, 100.02	8/14/2015	09:25	8/14/2015	09:27
Calibration2	K-Balance-16	1.00, 100.02	1.00, 100.02	8/17/2015	08:16	8/17/2015	08:17

Comments: DJM Approved 8-17-15

Preparation Information Benchsheet

Prep Run: 242696
Team: Metals
Analyst: Keith Linn
Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A
Status: Prepped
Current Step: Digestion
Prep Date: 08/18/2015 06:45
Due Date: 08/23/2015
Hold Date: 02/01/2016

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1509037-02	Method Blank		1.00 g		100 mL			10% HNO3, 10% HCl
KQ1509037-01	Lab Control Sample		1.05 g		100 mL	1 g	69665	10% HNO3, 10% HCl
K1508582-001	BF-2-Split	.05	1.0182 g	ISM Sieve	100 mL			10% HNO3, 10% HCl
K1508582-001: KQ1509037-03	Duplicate	.05	1.0122 g	ISM Sieve	100 mL			10% HNO3, 10% HCl
K1508582-001: KQ1509037-04	Matrix Spike	.05	1.0144 g	ISM Sieve	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HNO3, 10% HCl

5 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SOIL CRM	Spike	69665	7/31/2016	K-MET SS4	Spike	82092	6/23/2016
K-MET SS1	Spike	82954	6/8/2016	K-MET SS5	Spike	82880	4/28/2016
K-MET SS3	Spike	82114	1/14/2016				

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	Teflon Chips	69101	Digestion	K-MET H2O2	82956
Digestion	K-MET HCL	80595	Digestion	K-MET HNO3	83195
Digestion	K-MET 100ml Centrifuge Tube	81681			

Preparation Hardware / Equipment

Step	Name	Property	Value	
Digestion	K-Balance-02	Date Checked	8/18/15	
Digestion	K-BlockDigester-02	Corrected Temperature	95	deg C
Digestion	K-BlockDigester-02	Correction Factor	0	deg C
Digestion	K-BlockDigester-02	Observed Temperature	95	deg C
Digestion	K-BlockDigester-02	Thermometer ID 1107973		NONE
Digestion	K-BlockDigester-02	Thermometer Location	10	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	18-AUG-15 06:45	18-AUG-15 09:05	Keith Linn		N	

Comments

1R: 15 mins, 2R: 30 mins, 3R: 15 mins.

Review

Reviewed by: _____ Date: 8/19/15

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
*** Add after HNO3	Mn	100*	1000ml	50	
and before cas cal	Ni	100*	1000ml	50	
-14	Sb***	50	1000ml	50	
when making the	V	100*	1000ml	50	
solution	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Service Request #: K1508582 Air Dried

Analysis: Multi Incrimental Sampling (MIS/ISM)

Sample Number	+2mm Fraction Air Dried Weight (g)	Comments, Description of +2mm Fraction	-2mm Fraction Air Dried Weight (g)	-2mm Fraction Multi Incrimental Sample Aliquots									
				Test	Sample Wt. (g)	Test	Sample Wt. (g)	Test	Sample Wt. (g)	Test	Sample Wt. (g)	Test	Sample Wt. (g)
K1508582-001	161.19		359.43	Metals T	1.0182	Metals T MS	1.0122	Metals T MSD	1.0144	PCB-LL	30.0869	PCB-LL MS	30.1159
				PCB-LL MSD	30.0379	TS Dry	10.0173	TS Dry DUP	10.1221				

Comments:

Run Number: 242508

Balance ID: K-BALANCE- 41

Prepared By:	[illegible]	Date:	8.13.2015
Reviewed By:	[illegible]	Date:	8/14/15

Service Request # K1508582 Mn,Zn
Instrument ID# K-ICP-AES-03

ICP-OES 6010 Data Review Form

		Yes	No
1.	Standardization completed	X	
2.	ICV within 10 % of true value	X	
3.	ICB below MRL	X	
4.	CRI/LLICV standard analyzed.	X	
5.	ICS standards within 20% of true value	X	
6.	All preceding CCVs within 10 % of true value	X	
7.	Following CCV within 10 % of true value	X	
8.	Bracketing CCBs below MRL	X	
9.	Method Blank below MRL	X	
10.	MS (75-125), Dup (20) and LCS (80-120) within control limits		X*
11.	All analytes within instrument linear range	X	
12.	Adequate rinse out time allowed between samples to eliminate memory effect	X	
13.	Run terminated early		X

Comments:
StarLIMS Run 459476 Saved under 082615AICP03
6010: Non DOD work: MRL=2X for Mo.
DOD work: MRL=2X for As, Mo.
Raise MRL Mo=0.006ppm.
* IL: Zn=11%, post spike okay
High RPD: Mn=41%, non-homogeneous sample

Primary Review by GM Date 8/26/15

Secondary Review by GMA Date 8/27/15

Sample Name: BLK Acquired: 8/26/2015 9:17:05 Type: Cal
Method: 2015B-ICP-03(v10) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	-54.36	2.333	4.442	.0073	-8.6113	-9.584
Stddev	.000	3.81	1.289	.120	.0020	1.5286	.789
%RSD	31.82	7.016	55.26	2.709	27.84	17.752	8.229
#1	-.0001	-51.66	1.421	4.357	.0059	-9.6922	-10.14
#2	.0000	-57.05	3.245	4.528	.0087	-7.5304	-9.027

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0005	.0000	.0025	.1195	-.0001	.0008	-.0003
Stddev	.0004	.000	.0009	.0006	.0000	.0003	.0001
%RSD	77.51	78.60	35.12	.4678	2.075	37.84	21.99
#1	-.0008	.0000	.0031	.1199	-.0001	.0010	-.0003
#2	-.0002	-.0001	.0019	.1191	-.0001	.0006	-.0002

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-175.4	.0003	.0000	-16.34	-.0001	.0009	-5.325
Stddev	4.5	.0003	.0003	6.95	.0004	.0004	.813
%RSD	2.549	96.67	663.4	42.57	364.7	41.39	15.27
#1	-172.3	.0004	-.0001	-21.26	.0002	.0006	-4.750
#2	-178.6	.0001	.0002	-11.42	-.0004	.0011	-5.900

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00001	-.0001	.0019	.0013	.0002	.1325	1.062
Stddev	.00001	.0000	.0006	.0002	.0000	7.400	.450
%RSD	54.080	6.437	31.69	16.16	19.05	5585.	42.34
#1	.00001	-.0001	.0015	.0015	.0002	5.365	.7442
#2	.00002	-.0001	.0024	.0012	.0002	-5.100	1.380

Sample Name: BLK Acquired: 8/26/2015 9:17:05 Type: Cal
Method: 2015B-ICP-03(v10) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.448	-32.10	-24.75	-.00423	.0000	.0001	.0012
Stddev	1.894	4.49	12.03	.00096	.000	.0000	.0002
%RSD	42.59	13.98	48.62	22.773	460.1	37.21	14.23
#1	5.787	-35.27	-16.24	-.00491	-.0001	.0001	.0011
#2	3.108	-28.92	-33.26	-.00355	.0001	.0001	.0014

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	.0009	8.317	.0012	-.2388
Stddev	.0000	.0003	.400	.0006	.6351
%RSD	14.11	29.89	4.804	48.54	265.9
#1	.0004	.0011	8.599	.0008	-.6879
#2	.0003	.0007	8.034	.0017	.2103

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3416.8	87168.	4822.7
Stddev	13.1	66.	34.6
%RSD	.38423	.07520	.71692
#1	3426.0	87215.	4847.1
#2	3407.5	87122.	4798.2

AM
8/26/15

Sample Name: STD A Acquired: 8/26/2015 9:19:32 Type: Cal
Method: 2015B-ICP-03(v10) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-13-C

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Ca3933	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0830	296.7	27396.	2399.	2.748	2.292	24.70	.0880
Stddev	.0002	2.3	163.	18.	.004	.004	.13	.0009
%RSD	.2242	.7707	.59551	.7503	.1309	.1575	.5337	1.022
#1	.0831	298.4	27512.	2411.	2.751	2.294	24.61	.0887
#2	.0828	295.1	27281.	2386.	2.746	2.289	24.80	.0874

Elem	Co2307	Cu2247	Cu3273	Pb2203	Mg2795	Mn2576	Mo2020	Ni2216
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8524	.4862	10230.	.1764	3.885	.44798	.6330	.8817
Stddev	.0010	.0000	28.	.0000	.013	.00421	.0033	.0020
%RSD	.1115	.0069	.2734	.0067	.3205	.93868	.5139	.2320
#1	.8531	.4862	10250.	.1764	3.876	.45096	.6353	.8831
#2	.8517	.4862	10210.	.1764	3.894	.44501	.6307	.8802

Elem	Se1960	Ag3280	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	211.0	10140.	.1265	.1391	.3825	.1056	.7228	6823.
Stddev	1.6	136.	.0001	.0001	.0001	.0007	.0004	25.
%RSD	.7765	1.337	.0693	.0611	.0324	.7019	.0487	.3675
#1	212.2	10240.	.1266	.1392	.3825	.1061	.7231	6841.
#2	209.8	10050.	.1265	.1390	.3826	.1050	.7226	6805.

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3425.2	87522.	4827.6
Stddev	7.3	395.	9.9
%RSD	.21293	.45175	.20462
#1	3430.3	87802.	4820.6
#2	3420.0	87243.	4834.6

Sample Name: STD B Acquired: 8/26/2015 9:21:44 Type: Cal
Method: 2015B-ICP-03(v10) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-13-D

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Li6707	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	131900.	809.2	174.6	3.079	4.011	14120.	.4732
Stddev	916.	2.7	1.7	.001	.016	24.	.0001
%RSD	.6948	.3343	.9825	.0356	.3898	.1687	.0276
#1	131200.	807.2	175.8	3.078	4.022	14140.	.4733
#2	132500.	811.1	173.4	3.080	4.000	14100.	.4731

Elem	Mg2852	Mn2605	P_1782	K_7664	Si2516	Na5895	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	37980.	.0491	1.480	9438.	5838.	28300.	34.301
Stddev	243.	.0003	.002	6.	9.	87.	.084
%RSD	.6398	.6941	.0998	.0677	.1538	.3089	.24506
#1	38150.	.0494	1.479	9443.	5844.	28370.	34.360
#2	37810.	.0489	1.481	9434.	5831.	28240.	34.241

Elem	Bi2230	S_1820
Units	Cts/S	Cts/S
Avg	.5166	437.5
Stddev	.0005	.8
%RSD	.0962	.1795
#1	.5163	437.0
#2	.5170	438.1

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3393.1	85105.	4839.6
Stddev	16.0	336.	4.2
%RSD	.47043	.39438	.08773
#1	3381.8	84868.	4842.6
#2	3404.4	85343.	4836.6

Sample Name: ICVB Acquired: 8/26/2015 9:24:20 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-5-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764	1.049	.0026	.0120	.0007	-.00004	2.018	.0000
Stddev	.0033	.001	.0017	.0000	.0002	.00005	.003	.0001
%RSD	.3392	.0992	64.97	.2083	24.17	108.35	.1673	1005.
#1	.9787	1.049	.0014	.0120	.0008	-.00008	2.015	.0000
#2	.9740	1.048	.0037	.0120	.0006	-.00001	2.020	.0001
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	5.032	4.882	-.0007	-.0004	.0001	.0006	10.13
Stddev	.0000	.003	.063	.0001	.0000	.0000	.0004	.02
%RSD	13.19	.0503	1.294	11.85	11.69	46.55	66.46	.1636
#1	-.0002	5.030	4.837	-.0007	-.0004	.0001	.0008	10.12
#2	-.0001	5.034	4.926	-.0006	-.0003	.0001	.0003	10.15
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	1.993	4.709	4.823	4.833	9.6664	9.823	.0014
Stddev	.0005	.018	.069	.028	.039	.1133	.070	.0004
%RSD	31.09	.8805	1.473	.5803	.8010	1.1721	.7148	29.49
#1	.0019	2.005	4.660	4.843	4.861	9.5863	9.873	.0011
#2	.0012	1.981	4.758	4.803	4.806	9.7465	9.774	.0017
Check ?	None	Chk Pass	None	Chk Pass	None	None	Chk Pass	None
Value								
Range								

Sample Name: ICVB Acquired: 8/26/2015 9:24:20 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-5-B

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	4.967	-.0171	.0032	4.972	.0001	13.44	2.0119
Stddev	.0000	.014	.0145	.0004	.003	.0000	.08	.0013
%RSD	1.254	.2875	84.50	13.87	.0538	4.720	.5810	.06535
#1	.0003	4.977	-.0274	.0029	4.974	.0001	13.50	2.0129
#2	.0003	4.957	-.0069	.0035	4.971	.0001	13.39	2.0110
Check ?	None	Chk Pass	None	None	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	4.999	.0000	-.0001	.0000	.0004	5.089	5.043
Stddev	.0008	.002	.0002	.0001	.000	.0000	.007	.012
%RSD	55.33	.0427	2907.	176.1	402.1	1.291	.1402	.2317
#1	.0008	4.998	-.0001	.0000	.0000	.0004	5.084	5.051
#2	.0019	5.001	.0001	-.0001	.0000	.0003	5.094	5.035
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3442.9	85962.	4835.9
Stddev	7.6	320.	6.4
%RSD	.22069	.37279	.13218
#1	3448.3	86189.	4831.4
#2	3437.5	85735.	4840.4

Sample Name: ICV Acquired: 8/26/2015 9:26:51 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-16-F

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.207	5.244	2.552	2.627	5.020	.12625	.0071	1.248
Stddev	.004	.091	.006	.001	.030	.00059	.0011	.003
%RSD	.1054	1.727	.2196	.0509	.6067	.46494	15.01	.2490
#1	4.210	5.180	2.556	2.626	5.042	.12583	.0079	1.246
#2	4.203	5.308	2.548	2.628	4.999	.12666	.0064	1.250
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.250	12.58	12.17	.5055	1.223	.6046	.6056	2.562
Stddev	.004	.07	.13	.0035	.003	.0012	.0043	.006
%RSD	.2774	.5520	1.031	.6838	.2439	.2020	.7088	.2219
#1	1.248	12.63	12.08	.5079	1.221	.6037	.6026	2.566
#2	1.253	12.53	12.26	.5030	1.225	.6054	.6087	2.558
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.464	.0011	12.66	11.99	12.60	1.2650	1.238	2.067
Stddev	.006	.0007	.07	.18	.06	.0066	.019	.002
%RSD	.2494	67.29	.5315	1.479	.4482	.51895	1.537	.0751
#1	2.459	.0006	12.71	11.86	12.64	1.2697	1.252	2.068
#2	2.468	.0016	12.61	12.11	12.56	1.2604	1.225	2.066
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value Range								

Sample Name: ICV Acquired: 8/26/2015 9:26:51 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-16-F

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.222	-.0007	12.55	2.621	-.0273	.6292	12.58	.00004
Stddev	.003	.0025	.07	.009	.0050	.0063	.05	.00004
%RSD	.2340	370.3	.5444	.3489	18.36	.9938	.3980	107.95
#1	1.220	.0011	12.60	2.628	-.0309	.6248	12.62	.00001
#2	1.224	-.0025	12.50	2.615	-.0238	.6336	12.55	.00006
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.452	.0024	F 2.139	1.293	1.244	1.242	.0061	.0098
Stddev	.008	.0001	* .014	.007	.003	.001	.0011	.0021
%RSD	.3194	2.738	.6394	.5327	.1976	.0973	18.80	21.37
#1	2.447	.0024	2.149	1.298	1.242	1.241	.0053	.0083
#2	2.458	.0025	2.129	1.288	1.246	1.243	.0069	.0113
Check ?	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	None
Value			2.000					
Range			5.440%					

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3420.7	86380.	4866.3
Stddev	7.4	891.	3.6
%RSD	.21772	1.0314	.07476
#1	3426.0	85750.	4868.9
#2	3415.4	87010.	4863.7

*NR for 200.7
ok for 6010
GW
8/26/15

Sample Name: ICB Acquired: 8/26/2015 9:30:06 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0024	F .0241	.0084	.0003	.00001	.0013	.0000
Stddev	.0003	.0018	.0032	.0026	.0003	.00004	.0003	.000
%RSD	8875.	75.35	13.37	31.07	109.0	782.64	19.78	797.6
#1	.0002	.0011	.0218	.0065	.0006	.00004	.0015	-.0001
#2	-.0002	.0036	.0264	.0102	.0001	-.00003	.0011	.0000
Check ?	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0200					
Low Limit			-.0200					

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0027	.0000	-.0003	.0000	.0001	-.0001	-.0001
Stddev	.0000	.0028	.000	.0001	.000	.0004	.0000	.0001
%RSD	192.7	105.4	237.2	32.42	393.9	333.8	4.677	163.9
#1	.0000	.0007	.0000	-.0004	-.0001	.0004	-.0001	.0000
#2	.0000	.0047	-.0001	-.0003	.0000	-.0002	-.0001	-.0002
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0005	-.0368	.0001	-.0016	-.00002	.0010	F .0246
Stddev	.0011	.0016	.0031	.0001	.0019	.00006	.0007	.0046
%RSD	2161.	325.7	8.357	43.04	121.6	365.10	66.25	18.72
#1	.0007	-.0006	-.0346	.0002	-.0030	.00002	.0005	.0214
#2	-.0009	.0016	-.0390	.0001	-.0002	-.00005	.0015	.0279
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit								.0040
Low Limit								-.0040

NR-see rerun
am
8/26/15

Sample Name: ICB Acquired: 8/26/2015 9:30:06 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0018	.0077	F .0455	-.0039	.0001	-.0181	.00001
Stddev	.0000	.0022	.0123	.0055	.0020	.0007	.0056	.00003
%RSD	4.719	119.8	158.8	12.19	50.85	988.2	31.13	383.52
#1	-.0001	-.0034	-.0009	.0416	-.0053	.0006	-.0221	.00003
#2	-.0001	-.0003	.0164	.0494	-.0025	-.0004	-.0141	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0200				
Low Limit				-.0200				

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	.0001	.0000	-.0002	-.0001	.0013	.0033
Stddev	.0007	.0004	.0001	.000	.0001	.0001	.0001	.0024
%RSD	816.5	62.17	68.48	1772.	80.02	135.7	9.804	73.39
#1	.0006	.0008	.0002	-.0002	-.0001	-.0001	.0012	.0016
#2	-.0004	.0003	.0001	.0001	-.0003	.0000	.0014	.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3454.7	88057.	4885.5
Stddev	7.1	145.	5.2
%RSD	.20680	.16473	.10729
#1	3449.6	87954.	4881.8
#2	3459.8	88159.	4889.2

NR- see rerun
GW
8/26/15

Sample Name: ICB Acquired: 8/26/2015 9:40:30 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0010	.0016	.0001	.0001	.00000	.0003	.0000
Stddev	.0007	.0011	.0005	.0002	.0003	.00001	.0015	.000
%RSD	169.8	109.9	34.65	249.8	263.9	481.27	447.1	141.3
#1	-.0001	.0018	.0012	.0003	-.0001	-.00001	.0014	-.0001
#2	.0009	.0002	.0020	-.0001	.0003	.00001	-.0007	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0003	.0000	-.0004	.0000	.0006	-.0010	-.0012
Stddev	.000	.0092	.000	.0001	.000	.0006	.0011	.0002
%RSD	129.2	2782.	1714.	26.52	1808.	111.8	112.2	18.07
#1	-.0001	-.0068	.0000	-.0003	-.0001	.0001	-.0018	-.0014
#2	.0000	.0062	.0000	-.0005	.0001	.0010	-.0002	-.0011
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0015	-.0239	.0001	-.0014	-.00001	.0014	.0017
Stddev	.0008	.0026	.0159	.0000	.0012	.00003	.0001	.0006
%RSD	1340.	170.0	66.63	34.47	83.57	329.90	6.651	34.86
#1	-.0007	-.0003	-.0351	.0001	-.0023	.00001	.0013	.0013
#2	.0005	.0034	-.0126	.0000	-.0006	-.00003	.0014	.0021
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB Acquired: 8/26/2015 9:40:30 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0000	-.0012	.0004	-.0009	.0001	-.0104	-.00005
Stddev	.0000	.002	.0677	.0015	.0028	.0001	.0094	.00005
%RSD	7.411	15430.	5784.	354.3	307.1	135.0	90.67	98.008
#1	-.0002	-.0010	-.0491	.0015	-.0029	.0000	-.0037	-.00009
#2	-.0001	.0010	.0467	-.0007	.0011	.0002	-.0170	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0000	-.0005	-.0002	-.0001	.0014	.0024
Stddev	.0009	.0001	.0002	.0004	.0001	.0000	.0005	.0026
%RSD	323.5	101.6	1033.	75.73	27.61	53.05	35.31	108.1
#1	-.0009	.0000	.0002	-.0007	-.0002	-.0001	.0011	.0006
#2	.0003	.0002	-.0001	-.0002	-.0003	.0000	.0018	.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3428.8	87880.	4840.7
Stddev	1.7	279.	12.0
%RSD	.04863	.31732	.24705
#1	3427.6	88078.	4849.1
#2	3430.0	87683.	4832.2

Sample Name: LLICV Acquired: 8/26/2015 9:42:58 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 0.5/50mL DOD CHECK TABLE

Elem	Al1670	Al3944	Sb2068	As1890 *	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0120	.0192	F .0078	.0041	.00096	.0205	.0010
Stddev	.0009	.0003	.0006	.0018	.0002	.00015	.0000	.0000
%RSD	9.061	2.610	2.944	23.03	4.783	15.335	.0798	.9744
#1	.0104	.0118	.0196	.0091	.0040	.00086	.0205	.0010
#2	.0091	.0122	.0188	.0066	.0042	.00107	.0205	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.0100				
Range				-20.00%				

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0213	.0206	.0041	.0021	.0046	.0036	.0185
Stddev	.0001	.0058	.0000	.0002	.0000	.0000	.0004	.0010
%RSD	5.944	27.26	.1564	6.011	.2022	.5539	12.00	5.316
#1	.0010	.0172	.0205	.0042	.0021	.0046	.0039	.0178
#2	.0009	.0254	.0206	.0039	.0021	.0046	.0033	.0192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095	.0221	-.0053	.0050	F .0027	.00101	.0018	.0044
Stddev	.0003	.0021	.0133	.0001	.0003	.00001	.0005	.0001
%RSD	2.736	9.614	253.1	1.063	9.658	1.4575	27.06	1.967
#1	.0097	.0206	-.0147	.0051	.0025	.00102	.0014	.0043
#2	.0093	.0236	.0042	.0050	.0029	.00100	.0021	.0045
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
Value					.0050			
Range					-20.00%			

*2X
GW
8/26/15

Sample Name: LLICV Acquired: 8/26/2015 9:42:58 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 0.5/50mL DOD CHECK TABLE

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0404	.2072	.0205	.1944	.0043	.1846	.00102
Stddev	.0002	.0004	.0306	.0003	.0032	.0001	.0005	.00002
%RSD	3.731	.9252	14.78	1.672	1.627	3.239	.2938	2.0030
#1	.0041	.0401	.2289	.0207	.1967	.0042	.1842	.00103
#2	.0043	.0407	.1856	.0202	.1922	.0044	.1850	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	.0206	.0021	.0040	.0039	.0041	.0228	.0432
Stddev	.0016	.0001	.0003	.0002	.0001	.0000	.0006	.0027
%RSD	16.79	.4177	12.45	4.675	2.323	1.061	2.633	6.341
#1	.0107	.0205	.0020	.0042	.0040	.0041	.0233	.0451
#2	.0085	.0206	.0023	.0039	.0038	.0041	.0224	.0413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3444.9	87999.	4856.0
Stddev	7.7	194.	45.4
%RSD	.22443	.22050	.93466
#1	3450.4	87861.	4888.1
#2	3439.4	88136.	4823.9

Sample Name: LLICV Acquired: 8/26/2015 9:45:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 0.5/50mL DOD CHECK TABLE RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	F .0128	.0192	F .0042	.0042	.00097	.0200	.0010
Stddev	.0007	.0005	.0000	.0013	.0002	.00007	.0007	.0000
%RSD	7.200	3.955	.2198	31.13	4.686	7.2077	3.584	1.723
#1	.0092	.0124	.0191	.0033	.0044	.00102	.0205	.0010
#2	.0102	.0131	.0192	.0051	.0041	.00092	.0194	.0010
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0100		.0100				
Range		20.00%		-20.00%				

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0236	.0208	.0040	.0018	.0043	.0036	.0192
Stddev	.0001	.0009	.0001	.0004	.0001	.0004	.0003	.0028
%RSD	11.47	3.914	.3835	10.38	3.442	9.095	8.073	14.45
#1	.0011	.0230	.0208	.0037	.0019	.0046	.0038	.0172
#2	.0009	.0243	.0207	.0043	.0018	.0040	.0034	.0212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	.0222	-.0088	.0052	.0043	.00101	.0022	.0041
Stddev	.0017	.0037	.0255	.0000	.0004	.00000	.0007	.0002
%RSD	18.44	16.67	289.4	.6768	9.457	.36253	32.24	3.700
#1	.0106	.0196	-.0269	.0052	.0040	.00101	.0017	.0040
#2	.0082	.0249	.0092	.0052	.0046	.00101	.0027	.0042
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

NR
GM
8/26/15

Sample Name: LLICV Acquired: 8/26/2015 9:45:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 0.5/50mL DOD CHECK TABLE RERUN

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0381	F .1520	.0183	.1995	.0040	.1831	.00103
Stddev	.0003	.0025	.0278	.0013	.0057	.0002	.0049	.00004
%RSD	8.055	6.656	18.31	7.039	2.863	4.570	2.680	4.0885
#1	.0044	.0399	.1717	.0192	.2035	.0039	.1865	.00106
#2	.0039	.0363	.1323	.0174	.1954	.0041	.1796	.00100
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.2000					
Range			-20.00%					

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0212	.0021	.0038	.0038	.0040	.0237	.0419
Stddev	.0006	.0003	.0001	.0004	.0002	.0001	.0028	.0017
%RSD	6.632	1.608	4.551	11.59	6.489	1.758	11.60	4.047
#1	.0088	.0214	.0022	.0042	.0036	.0041	.0218	.0431
#2	.0096	.0209	.0020	.0035	.0039	.0040	.0257	.0407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3433.8	87850.	4804.7
Stddev	13.6	73.	30.8
%RSD	.39601	.08302	.64026
#1	3424.2	87798.	4826.4
#2	3443.4	87902.	4782.9

NR
Gm
8/26/15

Sample Name: LLICV,0.5 Acquired: 8/26/2015 9:47:48 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 1/50mL

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196	.0235	.0405	.0169	.0084	.00187	.0409	.0020
Stddev	.0004	.0002	.0005	.0011	.0003	.00007	.0000	.0000
%RSD	2.049	.7463	1.229	6.637	3.183	3.7810	.0205	2.273
#1	.0199	.0234	.0409	.0161	.0085	.00182	.0409	.0021
#2	.0193	.0236	.0402	.0177	.0082	.00192	.0409	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0421	.0424	.0077	.0040	.0083	.0076	.0421
Stddev	.0000	.0044	.0004	.0002	.0002	.0000	.0008	.0023
%RSD	2.333	10.45	.8811	2.970	4.759	.2709	10.49	5.387
#1	.0020	.0453	.0427	.0075	.0041	.0083	.0082	.0437
#2	.0019	.0390	.0421	.0079	.0038	.0083	.0070	.0405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197	.0399	-.0171	.0102	.0084	.00203	.0028	.0079
Stddev	.0003	.0007	.0023	.0000	.0024	.00001	.0001	.0002
%RSD	1.635	1.695	13.41	.0181	28.24	.62731	2.993	1.948
#1	.0200	.0404	-.0155	.0102	.0068	.00204	.0027	.0078
#2	.0195	.0394	-.0187	.0102	.0101	.00202	.0028	.0080
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: LLICV,0.5 Acquired: 8/26/2015 9:47:48 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-7-A 1/50mL

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0789	.4410	.0380	.3880	.0082	.3853	.00201
Stddev	.0001	.0026	.0031	.0014	.0015	.0001	.0012	.00010
%RSD	.6162	3.350	.6999	3.663	.3967	1.220	.3239	4.8519
#1	.0082	.0808	.4432	.0370	.3891	.0081	.3862	.00208
#2	.0083	.0770	.4389	.0390	.3869	.0083	.3844	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194	.0413	.0041	.0080	.0081	.0085	.0454	.0827
Stddev	.0008	.0009	.0000	.0000	.0001	.0001	.0005	.0011
%RSD	4.182	2.091	.1152	.3378	1.079	.6354	1.149	1.301
#1	.0200	.0406	.0041	.0080	.0082	.0084	.0451	.0834
#2	.0189	.0419	.0041	.0080	.0081	.0085	.0458	.0819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3430.8	87771.	4795.5
Stddev	1.2	192.	31.0
%RSD	.03416	.21877	.64572
#1	3430.0	87635.	4773.6
#2	3431.7	87907.	4817.4

Sample Name: CCVB1 Acquired: 8/26/2015 9:51:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.061	10.23	-.0051	.9949	9.892	-.00007	-.0005	.0000
Stddev	.033	.06	.0021	.0042	.065	.00005	.0009	.000
%RSD	.4637	.6159	40.98	.4204	.6606	78.165	173.1	184.5
#1	7.109	10.15	-.0037	.9920	9.941	-.00011	-.0008	.0000
#2	7.047	10.30	-.0035	.9939	9.857	-.00003	.0000	.0000
#3	7.048	10.24	-.0051	.9925	9.817	-.00012	-.0016	.0000
#4	7.038	10.24	-.0080	1.001	9.951	-.00001	.0004	-.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	10.02	9.655	.0002	.0003	-.0003	-.0006	9.973
Stddev	.0001	.06	.057	.0004	.0001	.0004	.0005	.035
%RSD	183.4	.5654	.5849	173.0	41.32	128.2	83.56	.3559
#1	-.0002	10.08	9.634	.0003	.0003	-.0005	-.0005	10.02
#2	.0000	10.00	9.658	.0000	.0005	-.0005	-.0001	9.978
#3	.0000	9.949	9.732	-.0002	.0002	.0003	-.0013	9.951
#4	.0000	10.05	9.598	.0008	.0002	-.0005	-.0005	9.942
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Sample Name: CCVB1 Acquired: 8/26/2015 9:51:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.005	9.984	9.638	9.791	1.0049	.9841	.0008
Stddev	.0006	.007	.029	.094	.040	.0031	.0060	.0003
%RSD	568.2	.6537	.2941	.9727	.4094	.30644	.6105	39.95
#1	.0001	1.006	9.973	9.571	9.807	1.0076	.9878	.0006
#2	.0007	1.013	10.02	9.763	9.835	1.0069	.9905	.0010
#3	.0004	.9992	9.953	9.562	9.782	1.0042	.9799	.0005
#4	-.0007	.9998	9.987	9.658	9.740	1.0008	.9781	.0012
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	9.943	9.979	.0022	9.958	.0000	9.925	.99672
Stddev	.0003	.048	.061	.0009	.051	.0002	.048	.00600
%RSD	48.34	.4784	.6133	41.16	.5121	328.1	.4829	.60215
#1	-.0008	10.01	10.06	.0027	9.972	.0002	9.960	1.0043
#2	-.0003	9.922	9.922	.0008	10.00	-.0001	9.967	.99300
#3	-.0004	9.935	9.986	.0028	9.972	-.0001	9.908	.99100
#4	-.0008	9.904	9.946	.0024	9.885	.0001	9.864	.99854
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVB1 Acquired: 8/26/2015 9:51:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0004	.0005	.0000	-.0001	.0002	1.024	1.004
Stddev	.0011	.0002	.0002	.001	.0002	.0001	.004	.001
%RSD	525.3	46.09	42.10	4796.	234.7	34.78	.4313	.1173
#1	.0014	-.0005	.0007	.0007	-.0001	.0001	1.031	1.003
#2	-.0012	-.0006	.0007	.0000	-.0003	.0003	1.021	1.003
#3	.0002	-.0002	.0004	-.0006	.0002	.0003	1.023	1.005
#4	.0003	-.0003	.0002	-.0001	-.0001	.0002	1.022	1.005
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3423.7	86201.	4852.9
Stddev	10.4	407.	18.6
%RSD	.30372	.47195	.38295
#1	3410.2	85628.	4857.2
#2	3434.7	86207.	4849.5
#3	3428.0	86424.	4874.8
#4	3421.9	86544.	4829.9

Sample Name: CCVA1 Acquired: 8/26/2015 9:56:41 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2379	.2701	.2504	.2601	.2508	.25486	.2549	.2515
Stddev	.0014	.0025	.0013	.0015	.0007	.00057	.0021	.0009
%RSD	.5761	.9121	.5368	.5586	.2933	.22501	.8301	.3698
#1	.2393	.2736	.2520	.2582	.2499	.25525	.2549	.2514
#2	.2375	.2678	.2496	.2608	.2515	.25436	.2531	.2506
#3	.2386	.2698	.2490	.2598	.2513	.25438	.2537	.2513
#4	.2362	.2692	.2509	.2616	.2505	.25545	.2579	.2528
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512	.4971	.4971	.2490	.2505	.2502	.2517	.2500
Stddev	.0012	.0036	.0020	.0010	.0013	.0014	.0016	.0010
%RSD	.4691	.7247	.4123	.3951	.5089	.5598	.6365	.3857
#1	.2520	.4960	.4941	.2496	.2499	.2496	.2535	.2498
#2	.2499	.4941	.4978	.2499	.2498	.2488	.2496	.2495
#3	.2505	.5024	.4987	.2488	.2501	.2505	.2519	.2493
#4	.2524	.4961	.4977	.2477	.2524	.2520	.2519	.2514
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: CCVA1 Acquired: 8/26/2015 9:56:41 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512	.0030	.2381	.2494	.2489	.24874	.2471	.2420
Stddev	.0006	.0007	.0258	.0005	.0026	.00063	.0021	.0025
%RSD	.2387	24.07	10.83	.2076	1.048	.25424	.8414	1.034
#1	.2517	.0026	.2481	.2486	.2525	.24937	.2495	.2455
#2	.2514	.0025	.2036	.2497	.2465	.24914	.2481	.2417
#3	.2512	.0041	.2646	.2497	.2477	.24799	.2448	.2396
#4	.2503	.0030	.2363	.2497	.2490	.24847	.2461	.2413
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2506	-.0015	2.545	.2429	.1266	.2542	.2465	.00000
Stddev	.0012	.0034	.031	.0034	.0107	.0013	.0095	.0001
%RSD	.4716	228.8	1.209	1.390	8.432	.4923	3.868	1431.7
#1	.2506	.0000	2.590	.2456	.1317	.2552	.2498	-.00001
#2	.2494	-.0034	2.531	.2446	.1390	.2531	.2526	-.00007
#3	.2502	-.0051	2.522	.2432	.1160	.2531	.2323	.00006
#4	.2522	.0025	2.538	.2380	.1196	.2553	.2513	.00001
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVA1 Acquired: 8/26/2015 9:56:41 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2504	.2497	.2513	.2497	.2502	.2580	.0035	.0020
Stddev	.0006	.0010	.0010	.0020	.0006	.0005	.0009	.0024
%RSD	.2269	.4198	.3976	.8175	.2435	.2112	25.17	118.0
#1	.2499	.2483	.2526	.2514	.2498	.2585	.0028	.0051
#2	.2501	.2497	.2516	.2514	.2496	.2573	.0034	-.0006
#3	.2504	.2499	.2506	.2475	.2503	.2577	.0030	.0022
#4	.2512	.2508	.2505	.2484	.2509	.2583	.0048	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3468.5	88750.	4910.4
Stddev	3.7	391.	38.6
%RSD	.10582	.44098	.78710
#1	3467.3	88809.	4954.7
#2	3473.1	88224.	4907.2
#3	3469.3	89171.	4861.0
#4	3464.3	88795.	4918.8

Sample Name: CCB Acquired: 8/26/2015 10:02:21 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0014	.0046	.0014	.0002	-.00012	.0012	.0000
Stddev	.0008	.0002	.0015	.0000	.0000	.00006	.0002	.000
%RSD	115.7	14.37	33.26	2.385	18.77	48.639	16.82	183.8
#1	-.0001	.0015	.0035	.0014	.0003	-.00016	.0011	-.0001
#2	-.0012	.0013	.0057	.0014	.0002	-.00008	.0014	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0049	-.0001	.0002	-.0001	.0002	-.0006	-.0054
Stddev	.000	.0035	.0000	.0001	.0002	.0004	.0004	.0036
%RSD	.6283	71.85	61.32	55.73	224.1	189.6	66.07	66.98
#1	.0000	.0024	-.0001	.0001	-.0002	-.0001	-.0003	-.0080
#2	.0000	.0074	.0000	.0003	.0001	.0005	-.0009	-.0028
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0021	-.0307	.0001	-.0016	.00001	-.0010	F .0051
Stddev	.0011	.0015	.0037	.0001	.0013	.00005	.0006	.0013
%RSD	507.8	71.08	12.04	99.03	81.32	819.13	58.47	24.94
#1	-.0010	.0010	-.0333	.0000	-.0007	.00004	-.0014	.0042
#2	.0005	.0031	-.0281	.0001	-.0025	-.00003	-.0006	.0060
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Fail
High Limit								.0040
Low Limit								-.0040

Sample Name: CCB Acquired: 8/26/2015 10:02:21 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0016	.0571	.0086	-.0009	.0006	-.0162	-.00001
Stddev	.0000	.0004	.0091	.0042	.0101	.0000	.0042	.00009
%RSD	7.000	22.63	15.95	48.59	1187.	6.254	25.75	643.86
#1	-.0002	-.0014	.0506	.0056	.0063	.0006	-.0132	-.00008
#2	-.0002	-.0019	.0635	.0115	-.0080	.0006	-.0191	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0001	.0000	-.0004	-.0001	.0032	-.0005
Stddev	.000	.0002	.0001	.0007	.0001	.0000	.0002	.0001
%RSD	1578.	69.28	78.50	2542.	21.18	31.18	5.294	26.33
#1	-.0001	.0001	.0000	.0005	-.0003	-.0001	.0031	-.0004
#2	.0001	.0003	.0002	-.0004	-.0004	-.0001	.0033	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3427.5	87625.	4872.9
Stddev	6.5	258.	6.0
%RSD	.18828	.29401	.12413
#1	3423.0	87443.	4868.7
#2	3432.1	87807.	4877.2

Sample Name: ICSA Acquired: 8/26/2015 10:05:42 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-6-B

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.23	395.0	.0141	.0029	.0000	.00028	.0029	-.0002
Stddev	.06	4.9	.0046	.0001	.0000	.00001	.0001	.0002
%RSD	.3450	1.237	32.71	4.376	24.76	4.5799	4.898	69.16
#1	16.19	391.6	.0108	.0028	.0000	.00029	.0030	-.0003
#2	16.27	398.5	.0174	.0029	.0000	.00027	.0028	-.0001
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	462.4	*****	.0016	-.0014	-.0041	-.0010	181.0
Stddev	.0002	1.3	-----	.0002	.0004	.0007	.0002	.1
%RSD	46.41	.2761	-----	9.649	30.08	15.94	16.00	.0722
#1	-.0006	461.5	-----	.0017	-.0011	-.0046	-.0008	180.9
#2	-.0003	463.3	-----	.0015	-.0017	-.0037	-.0011	181.1
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0050	502.2	*****	380.0	-.00201	-.0092	.0015
Stddev	.0007	.0015	.3	-----	2.6	.00003	.0002	.0007
%RSD	200.1	29.74	.0570	-----	.6939	1.6872	1.946	51.37
#1	.0008	.0039	502.4	-----	381.9	-.00203	-.0091	.0009
#2	-.0001	.0060	502.0	-----	378.1	-.00199	-.0093	.0020
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 8/26/2015 10:05:42 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP15-6-B

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0058	.0516	.0060	-.0030	.0002	.0110	-.00169
Stddev	.0004	.0017	.0389	.0037	.0007	.0004	.0033	.00013
%RSD	11.88	30.11	75.34	61.85	25.00	226.6	30.42	7.4773
#1	.0039	.0070	.0791	.0034	-.0024	-.0001	.0133	-.00177
#2	.0033	.0045	.0241	.0087	-.0035	.0005	.0086	-.00160
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0015	.0007	.0009	.0005	-.0008	.0175	.0302
Stddev	.0006	.0006	.0001	.0005	.0008	.0001	.0019	.0027
%RSD	40.32	41.86	10.83	51.56	164.3	16.45	11.02	8.942
#1	.0010	.0011	.0006	.0006	-.0001	-.0009	.0188	.0283
#2	.0019	.0020	.0008	.0012	.0011	-.0007	.0161	.0322
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3084.7	76338.	4710.1
Stddev	.9	494.	7.8
%RSD	.03037	.64716	.16647
#1	3085.3	76688.	4704.5
#2	3084.0	75989.	4715.6

Sample Name: ICSAB Acquired: 8/26/2015 10:08:19 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP14-87-I

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.64	395.6	.9168	.0050	.4936	.46590	.0021	.9069
Stddev	.06	5.0	.0038	.0018	.0013	.00193	.0001	.0001
%RSD	.3469	1.275	.4117	35.86	.2704	.41515	3.804	.0116
#1	16.60	399.1	.9141	.0037	.4926	.46453	.0021	.9069
#2	16.68	392.0	.9195	.0062	.4945	.46727	.0020	.9070
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8959	463.1	*****	.4826	.4444	.4420	.4428	181.4
Stddev	.0014	1.9	-----	.0011	.0007	.0000	.0005	.5
%RSD	.1551	.4072	-----	.2380	.1685	.0055	.1135	.2494
#1	.8949	464.4	-----	.4834	.4449	.4420	.4425	181.1
#2	.8969	461.8	-----	.4818	.4439	.4420	.4432	181.7
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8637	.0070	506.3	*****	365.4	.47237	.5009	-.0013
Stddev	.0002	.0004	2.5	-----	.6	.00102	.0030	.0001
%RSD	.0215	6.257	.4974	-----	.1667	.21660	.5971	10.72
#1	.8636	.0067	504.5	-----	365.8	.47309	.4988	-.0012
#2	.8639	.0073	508.1	-----	364.9	.47164	.5030	-.0014
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: ICSAB Acquired: 8/26/2015 10:08:19 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP14-87-I

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8753	.0063	-.0537	.0016	.0021	.8917	.0191	-.00175
Stddev	.0009	.0022	.0144	.0051	.0028	.0038	.0015	.00009
%RSD	.1001	34.76	26.91	310.2	137.6	.4226	8.016	4.9791
#1	.8760	.0048	-.0639	-.0020	.0001	.8944	.0180	-.00181
#2	.8747	.0079	-.0435	.0053	.0041	.8890	.0201	-.00169
Check ?	Chk Pass	None	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0013	.0006	.5062	.9000	.8832	.0175	.0328
Stddev	.0007	.0008	.0003	.0007	.0003	.0007	.0022	.0063
%RSD	135.0	61.03	44.38	.1342	.0341	.0760	12.82	19.19
#1	.0010	.0008	.0007	.5067	.8998	.8827	.0191	.0284
#2	.0000	.0019	.0004	.5057	.9002	.8837	.0159	.0373
Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3070.4	76217.	4693.2
Stddev	1.0	134.	6.4
%RSD	.03155	.17537	.13621
#1	3069.8	76122.	4697.7
#2	3071.1	76311.	4688.6

Sample Name: 200ppm Fe Acquired: 8/26/2015 10:11:35 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: 0.2/10mL Fe 10,000ppm MET2-40-J

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0056	-.0006	.0000	.0015	.00045	-.0049	-.0003
Stddev	.0004	.0016	.0016	.001	.0002	.00004	.0002	.0000
%RSD	1751e12	29.50	245.6	11760.	13.55	9.8956	3.325	6.412
#1	.0003	.0067	-.0018	.0005	.0013	.00048	-.0048	-.0003
#2	-.0003	.0044	.0005	-.0006	.0016	.00042	-.0050	-.0003
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0019	.0063	.0003	.0002	.0000	-.0005	F 196.7
Stddev	.000	.0025	.0006	.0002	.0001	.000	.0001	.5
%RSD	550100.	130.7	9.787	51.97	51.29	2952.	26.93	.2692
#1	.0001	.0001	.0067	.0005	.0002	-.0001	-.0004	197.0
#2	-.0001	.0037	.0059	.0002	.0001	.0001	-.0006	196.3
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit								.0200
Low Limit								-.0200

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.0012	-.0159	.0000	.0046	.00004	-.0077	-.0011
Stddev	.0006	.0007	.0204	.001	.0009	.00005	.0023	.0001
%RSD	10.62	55.32	128.2	524000.	20.37	122.32	30.44	5.413
#1	.0056	.0007	-.0015	.0005	.0052	.00008	-.0060	-.0011
#2	.0065	.0017	-.0304	-.0005	.0039	.00001	-.0093	-.0010
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Sample Name: 200ppm Fe Acquired: 8/26/2015 10:11:35 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: 0.2/10mL Fe 10,000ppm MET2-40-J

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0027	-.0740	.0000	-.0265	-.0002	-.0130	-.00003
Stddev	.0001	.0012	.0194	.0004	.0098	.0003	.0044	.00007
%RSD	11.94	43.25	26.27	21430.	36.94	122.8	34.35	254.63
#1	.0011	.0019	-.0603	-.0003	-.0196	-.0004	-.0098	-.00008
#2	.0013	.0035	-.0878	.0003	-.0334	.0000	-.0161	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0011	.0002	-.0001	-.0004	.0004	.0164	.0002
Stddev	.0010	.0005	.0001	.0001	.0001	.0001	.0005	.0026
%RSD	95.12	44.52	45.41	70.72	31.45	17.65	3.125	1578.
#1	.0017	.0007	.0001	-.0001	-.0003	.0004	.0161	.0020
#2	.0003	.0014	.0002	.0000	-.0005	.0003	.0168	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3425.6	86983.	4797.8
Stddev	4.2	33.	25.4
%RSD	.12340	.03827	.52926
#1	3422.6	86960.	4815.7
#2	3428.6	87007.	4779.8

Sample Name: CCVB Acquired: 8/26/2015 10:14:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.378	10.19	-.0095	1.013	9.824	.00005	.0003	.0000
Stddev	.043	.16	.0008	.005	.191	.00000	.0008	.000
%RSD	.5783	1.571	8.040	.4679	1.940	8.0433	309.0	119.2
#1	7.348	10.07	-.0100	1.016	9.690	.00005	.0008	-.0001
#2	7.408	10.30	-.0090	1.010	9.959	.00004	-.0003	.0000
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	10.01	9.547	.0000	.0000	.0006	-.0004	9.871
Stddev	.000	.06	.063	.0000	.000	.0001	.0003	.049
%RSD	41.44	.6305	.6581	145.5	1014.	24.93	63.43	.4960
#1	-.0001	9.962	9.502	.0001	.0000	.0006	-.0002	9.837
#2	.0000	10.05	9.591	.0000	.0000	.0005	-.0006	9.906
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.9899	9.932	9.643	9.627	1.0007	.9697	-.0005
Stddev	.0011	.0042	.045	.101	.049	.0086	.0022	.0003
%RSD	134.4	.4198	.4527	1.044	.5040	.86242	.2260	59.89
#1	.0000	.9929	9.900	9.714	9.593	1.0068	.9682	-.0007
#2	.0017	.9870	9.964	9.572	9.661	.99458	.9713	-.0003
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 8/26/2015 10:14:23 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	10.14	9.926	-.0025	9.858	.0000	9.863	.99600
Stddev	.0000	.01	.043	.0012	.003	.0003	.001	.00100
%RSD	10.65	.1345	.4315	48.64	.0341	1229.	.0092	.10049
#1	-.0002	10.13	9.956	-.0016	9.856	-.0002	9.864	.99529
#2	-.0002	10.15	9.896	-.0033	9.861	.0003	9.862	.99670
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0004	.0005	-.0004	.0000	.0002	1.023	1.020
Stddev	.0000	.0002	.0001	.0003	.0000	.0000	.004	.005
%RSD	19.91	53.23	23.63	93.10	949.2	15.19	.4143	.4764
#1	.0002	-.0005	.0006	-.0006	.0000	.0002	1.026	1.023
#2	.0002	-.0002	.0004	-.0001	.0000	.0002	1.020	1.016
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3453.6	86419.	4820.9
Stddev	9.2	135.	15.4
%RSD	.26580	.15615	.31991
#1	3460.1	86323.	4831.8
#2	3447.1	86514.	4810.0

Sample Name: CCVA Acquired: 8/26/2015 10:17:10 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601	.2693	.2497	.2599	.2550	.25431	.2531	.2539
Stddev	.0008	.0017	.0005	.0010	.0011	.00266	.0016	.0012
%RSD	.2921	.6219	.1813	.4027	.4186	1.0468	.6328	.4766
#1	.2606	.2681	.2494	.2607	.2557	.25243	.2519	.2548
#2	.2595	.2705	.2500	.2592	.2542	.25620	.2542	.2531
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2534	.5120	.4966	.2524	.2506	.2535	.2507	.2515
Stddev	.0013	.0079	.0001	.0009	.0015	.0020	.0016	.0025
%RSD	.5066	1.552	.0212	.3539	.6150	.7847	.6273	1.000
#1	.2543	.5064	.4965	.2530	.2517	.2549	.2496	.2533
#2	.2525	.5176	.4967	.2518	.2496	.2521	.2519	.2497
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2524	-.0003	.2423	.2534	.2433	.24974	.2414	.2479
Stddev	.0016	.0026	.0024	.0013	.0024	.00013	.0008	.0027
%RSD	.6527	982.8	.9931	.4942	.9886	.05166	.3494	1.073
#1	.2536	.0016	.2440	.2543	.2416	.24983	.2408	.2498
#2	.2513	-.0021	.2406	.2525	.2450	.24965	.2420	.2460
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 8/26/2015 10:17:10 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2523	-.0003	2.538	.2512	.1230	.2530	.2274	-.00004
Stddev	.0011	.0003	.009	.0023	.0033	.0007	.0058	.00007
%RSD	.4233	125.5	.3611	.9337	2.646	.2842	2.559	191.53
#1	.2530	-.0005	2.545	.2529	.1207	.2525	.2233	.00001
#2	.2515	.0000	2.532	.2496	.1253	.2535	.2315	-.00008
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509	.2523	.2516	.2510	.2539	.2627	.0029	.0017
Stddev	.0040	.0019	.0001	.0004	.0009	.0007	.0011	.0019
%RSD	1.579	.7342	.0329	.1610	.3459	.2498	37.37	109.5
#1	.2537	.2536	.2516	.2507	.2545	.2632	.0022	.0030
#2	.2481	.2510	.2515	.2513	.2533	.2622	.0037	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3471.3	87679.	4780.0
Stddev	9.0	439.	7.8
%RSD	.25822	.50052	.16252
#1	3465.0	87369.	4774.5
#2	3477.7	87990.	4785.5

Sample Name: CCB Acquired: 8/26/2015 10:19:27 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0007	.0040	.0009	.0005	.00001	.0005	.0000
Stddev	.0005	.0015	.0014	.0006	.0003	.00007	.0001	.000
%RSD	137.4	202.6	34.96	70.25	55.40	1083.3	30.47	92.79
#1	.0000	-.0003	.0050	.0014	.0007	.00005	.0006	.0000
#2	-.0006	.0018	.0030	.0005	.0003	-.00004	.0004	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0014	.0001	-.0002	-.0003	-.0001	-.0004	-.0013
Stddev	.0000	.0038	.0000	.0005	.0001	.0002	.0013	.0004
%RSD	65.61	270.4	43.77	192.7	48.91	164.9	331.0	30.43
#1	.0000	.0013	.0001	-.0006	-.0004	-.0002	-.0013	-.0011
#2	-.0001	-.0040	.0001	.0001	-.0002	.0000	.0005	-.0016
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0000	-.0448	.0002	-.0012	.00005	.0007	.0038
Stddev	.0007	.004	.0193	.0002	.0005	.00006	.0006	.0006
%RSD	80.34	24470.	43.05	70.61	38.43	118.65	82.69	16.23
#1	-.0014	-.0025	-.0585	.0001	-.0015	.00001	.0011	.0034
#2	-.0004	.0024	-.0312	.0003	-.0009	.00009	.0003	.0043
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB Acquired: 8/26/2015 10:19:27 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0020	.0296	.0092	-.0021	.0005	-.0090	-.00005
Stddev	.000	.0027	.0045	.0005	.0014	.0001	.0091	.00004
%RSD	116.5	134.8	15.31	5.019	63.70	19.56	102.1	82.388
#1	.0000	-.0039	.0264	.0089	-.0031	.0005	-.0025	-.00007
#2	-.0001	-.0001	.0328	.0095	-.0012	.0004	-.0154	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0001	-.0001	-.0005	-.0001	.0001	.0028	.0000
Stddev	.0007	.0001	.0002	.0001	.0001	.0000	.0011	.0013
%RSD	121.5	88.06	209.7	25.03	36.59	9.281	39.37	3009.
#1	-.0001	-.0002	-.0002	-.0006	-.0002	.0001	.0021	-.0009
#2	-.0011	.0000	.0000	-.0004	-.0001	.0001	.0036	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3447.9	87517.	4758.1
Stddev	11.2	202.	26.4
%RSD	.32345	.23058	.55506
#1	3440.1	87374.	4739.4
#2	3455.8	87659.	4776.8

Sample Name: KQ1509037-02 Acquired: 8/26/2015 10:26:13 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2 K1508582-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0015	.0001	.0002	-.00008	-.0003	-.0001	-.0001
#1	.0016	.0004	-.0001	.0002	-.00007	.0009	.0000	-.0001
#2	.0012	.0025	.0003	.0001	-.00008	-.0014	-.0001	-.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0002	-.0002	.0002	-.0012	.0018	-.0007	.0034
#1	.0036	-.0001	-.0001	.0002	-.0016	.0042	-.0008	.0032
#2	.0036	.0004	-.0002	.0002	-.0007	-.0007	-.0007	.0036

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.00014	.0012	-.0003	.0117	.0315	.0010	-.0017
#1	.0007	.00014	.0009	-.0003	.0115	.0107	.0015	-.0041
#2	.0008	.00013	.0015	-.0002	.0118	.0523	.0004	.0006

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0128	.00004	-.0008	.0171	.0001	.0002	.0000
#1	.0001	-.0140	.00009	-.0011	.0174	.0000	.0002	-.0001
#2	.0006	-.0117	.00000	-.0006	.0168	.0002	.0001	.0000

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0004	.0018	.0008
#1	.0004	.0017	.0018
#2	.0005	.0019	-.0003

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3507.3	90183.	4880.3
#1	3507.4	90379.	4865.6
#2	3507.1	89986.	4895.0

Sample Name: KQ1509037-01 Acquired: 8/26/2015 10:28:38 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2 K1508582-LCSS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.64	.3645	.5352	1.538	.38368	.7481	.9052	.8934
#1	39.78	.3649	.5321	1.538	.38431	.7477	.9048	.8919
#2	39.50	.3641	.5382	1.537	.38304	.7485	.9057	.8948

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.70	.6904	.6448	.4933	.5374	57.50	.5583	.0446
#1	34.68	.6891	.6439	.4930	.5373	57.34	.5572	.0443
#2	34.72	.6918	.6456	.4936	.5375	57.66	.5594	.0449

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.46	1.6383	.7161	.7659	2.670	14.36	.7501	12.48
#1	15.43	1.6363	.7159	.7647	2.665	14.40	.7479	12.48
#2	15.48	1.6402	.7164	.7671	2.675	14.31	.7522	12.48

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2098	15.17	.50793	.8483	.5405	1.543	.5065	.7882
#1	.2101	15.16	.50769	.8481	.5409	1.543	.5058	.7884
#2	.2096	15.18	.50817	.8484	.5401	1.542	.5072	.7879

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.8328	.0002	1.325
#1	.8313	-.0029	1.326
#2	.8343	.0032	1.324

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3593.6	91685.	5139.9
#1	3589.2	91833.	5146.3
#2	3598.0	91538.	5133.5

Sample Name: K1508582-001 Acquired: 8/26/2015 10:30:55 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.70	.0090	.0381	.6200	.00297	.0210	.0284	.0281
#1	66.24	.0094	.0356	.6212	.00298	.0221	.0283	.0278
#2	67.15	.0086	.0406	.6187	.00296	.0198	.0284	.0284

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	111.9	.9598	.0657	.3200	.3531	279.5	2.303	.0394
#1	112.1	.9574	.0657	.3208	.3518	281.5	2.311	.0393
#2	111.8	.9622	.0657	.3192	.3544	277.5	2.294	.0395

Elem	Mg2852	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.96	16.79	.0239	.1406	3.590	4.019	.0230	8.743
#1	46.84	16.67	.0233	.1406	3.595	4.005	.0210	8.730
#2	47.09	16.90	.0244	.1406	3.586	4.034	.0250	8.756

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	2.743	.41618	.0036	.0469	8.218	.5371	10.11
#1	.0055	2.737	.41716	.0037	.0469	8.157	.5352	10.10
#2	.0051	2.748	.41521	.0036	.0469	8.280	.5391	10.12

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>4.500	.0258	.5500
#1	10.16	.0256	.5505
#2	10.10	.0260	.5496

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3554.4	89399.	5170.5
#1	3558.0	89797.	5167.0
#2	3550.7	89001.	5174.1

Sample Name: K1508582-001L Acquired: 8/26/2015 10:33:34 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 10 Test Type: Sample Type:
Comment: EM 082615A 1/10

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.17	.0027	.0053	.1311	.00065	.0063	.0062	.0058
#1	14.17	.0010	.0061	.1313	.00068	.0068	.0062	.0059
#2	14.17	.0045	.0046	.1309	.00062	.0059	.0062	.0058

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.07	.2038	.0143	.0698	.0723	61.47	.5104	.0079
#1	24.05	.2045	.0144	.0698	.0718	61.41	.5107	.0076
#2	24.09	.2030	.0142	.0698	.0729	61.52	.5101	.0082

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.299	3.4991	.0048	.0309	.7749	.8190	.0016	1.744
#1	9.347	3.4887	.0042	.0309	.7754	.8361	.0007	1.755
#2	9.252	3.5095	.0054	.0310	.7744	.8020	.0026	1.732

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.5385	.08821	.0009	.0110	1.730	.1115	2.263
#1	.0007	.5453	.08807	.0013	.0113	1.733	.1115	2.267
#2	.0013	.5317	.08836	.0004	.0106	1.727	.1114	2.259

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	2.311	.0074	.1183
#1	2.313	.0079	.1182
#2	2.309	.0068	.1183

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3508.5	88905.	4949.1
#1	3508.4	88844.	4989.7
#2	3508.7	88966.	4908.5

Sample Name: K1508582-001D Acquired: 8/26/2015 10:36:10 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	62.14	.0094	.0325	.6228	.00269	.0112	.0302	.0306
#1	62.18	.0067	.0313	.6254	.00255	.0151	.0301	.0300
#2	62.10	.0120	.0337	.6202	.00282	.0072	.0303	.0313

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	87.96	.6425	.0696	.3400	.3726	263.3	2.568	.0359
#1	88.40	.6443	.0698	.3377	.3713	267.7	2.560	.0365
#2	87.51	.6407	.0693	.3422	.3739	258.9	2.576	.0353

Elem	Mg2852	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.00	11.04	.0182	.1573	3.575	4.035	-.0002	9.126
#1	35.88	11.08	.0181	.1574	3.567	4.015	-.0016	9.114
#2	36.12	11.00	.0183	.1572	3.582	4.055	.0013	9.138

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	2.468	.36048	.0026	.0479	8.464	.4870	10.65
#1	.0048	2.463	.36171	.0031	.0486	8.504	.4895	10.65
#2	.0056	2.474	.35925	.0021	.0471	8.425	.4845	10.65

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>4.500	.0244	.5149
#1	10.57	.0250	.5140
#2	10.57	.0239	.5158

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3555.1	90243.	5137.0
#1	3554.8	89893.	5112.7
#2	3555.5	90593.	5161.4

Sample Name: K1508582-001S Acquired: 8/26/2015 10:38:50 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	73.25	.1939	.5013	1.832	.04873	.4720	.0757	.0768
#1	72.42	.1935	.5023	1.842	.04857	.4741	.0759	.0768
#2	74.09	.1942	.5003	1.823	.04889	.4698	.0755	.0767

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	128.2	1.588	.5017	.5456	.5799	278.5	3.127	.0413
#1	128.7	1.589	.5019	.5449	.5774	277.2	3.121	.0416
#2	127.6	1.586	.5015	.5464	.5824	279.7	3.134	.0410

Elem	Mg2852	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	54.47	25.20	.4803	.5608	3.832	9.313	.4202	7.704
#1	54.51	25.26	.4802	.5602	3.834	9.337	.4211	7.710
#2	54.43	25.14	.4803	.5615	3.830	9.289	.4193	7.698

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0502	8.053	.50681	.4141	.0494	8.179	1.013	11.70
#1	.0501	8.059	.50928	.4137	.0499	8.244	1.014	11.72
#2	.0502	8.047	.50433	.4144	.0489	8.113	1.013	11.69

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>4.500	.0271	.6730
#1	11.37	.0292	.6789
#2	11.38	.0251	.6671

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3483.4	87589.	5053.8
#1	3485.8	87426.	5043.9
#2	3481.0	87752.	5063.6

Sample Name: K1508582-001A Acquired: 8/26/2015 10:44:56 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 082615A 1/2 A=0.05/10mL Mn + Zn 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.94	.0077	.0357	.6222	.00306	.0202	.0282	.0289
#1	66.20	.0072	.0362	.6221	.00309	.0226	.0282	.0290
#2	67.67	.0082	.0351	.6223	.00302	.0177	.0282	.0289

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	112.1	.9521	.0656	.3245	.3477	274.5	2.315	.0376
#1	112.0	.9534	.0655	.3235	.3466	275.5	2.314	.0373
#2	112.1	.9509	.0656	.3255	.3488	273.6	2.316	.0378

Elem	Mg2852	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.72	20.96	.0195	.1409	3.704	4.001	.0147	8.505
#1	45.50	20.86	.0189	.1407	3.703	3.995	.0155	8.475
#2	45.94	21.06	.0200	.1410	3.706	4.007	.0138	8.535

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	2.667	.41706	.0042	.0470	8.040	.5288	14.19
#1	.0059	2.661	.41622	.0034	.0474	8.046	.5283	14.22
#2	.0058	2.673	.41790	.0051	.0466	8.034	.5292	14.16

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>4.500	.0240	.5440
#1	13.63	.0227	.5411
#2	13.65	.0253	.5468

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3503.3	88818.	5080.3
#1	3500.4	88709.	5079.6
#2	3506.3	88927.	5081.0

Sample Name: KQ1509335-02 Acquired: 8/26/2015 10:47:58 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 082615A K1509027-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0015	-.0014	.0003	-.00004	.0003	.0000	.0000
#1	-.0004	.0019	-.0022	.0003	-.00008	.0003	.0000	.0000
#2	.0015	.0012	-.0007	.0004	.00001	.0004	.0000	-.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	-.0006	.0001	.0002	-.0003	.0062	.0007	-.0005
#1	.0048	-.0004	-.0002	.0003	-.0004	.0023	.0013	.0027
#2	.0044	-.0008	.0004	.0001	-.0003	.0102	.0002	-.0037

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.00021	.0013	.0001	F .0889	.0905	.0025	-.0004
#1	.0009	.00024	.0009	-.0001	.0885	.0834	.0021	-.0095
#2	.0008	.00018	.0017	.0002	.0893	.0976	.0030	.0087

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0200	.00005	.0000	-.0001	.0009	.0000	-.0002
#1	.0004	-.0068	.00000	-.0002	-.0003	.0008	.0000	-.0001
#2	.0002	-.0332	.00009	.0002	.0000	.0010	-.0001	-.0002

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0002	.0028	F .0361
#1	.0002	.0027	.0347
#2	.0003	.0028	.0374

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3488.2	88341.	4784.3
#1	3485.0	87736.	4784.1
#2	3491.4	88946.	4784.5

Sample Name: KQ1509335-01 Acquired: 8/26/2015 10:50:24 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 082615A K1509027-LCSW

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.158	2.055	2.596	5.066	.12523	.9963	1.279	1.277
#1	5.179	2.051	2.595	5.062	.12587	1.000	1.280	1.278
#2	5.136	2.059	2.596	5.070	.12459	.9926	1.278	1.277

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.48	.5055	1.234	.6080	.6118	2.495	2.509	.0034
#1	12.43	.5056	1.235	.6092	.6138	2.495	2.508	.0039
#2	12.53	.5055	1.233	.6067	.6098	2.495	2.511	.0028

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.41	1.2694	1.033	1.229	.1285	12.80	2.523	-.0149
#1	12.52	1.2699	1.035	1.230	.1314	12.86	2.518	-.0102
#2	12.31	1.2690	1.031	1.228	.1256	12.74	2.527	-.0195

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6150	12.59	.00016	2.507	.0007	.0004	1.287	1.229
#1	.6212	12.68	.00018	2.509	.0006	.0005	1.284	1.230
#2	.6088	12.50	.00014	2.505	.0008	.0002	1.290	1.227

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.238	.0047	.0053
#1	1.236	.0046	.0053
#2	1.240	.0049	.0053

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3435.8	86705.	4818.7
#1	3430.8	87177.	4828.7
#2	3440.8	86233.	4808.6

Sample Name: K1509027-002 Acquired: 8/26/2015 10:52:39 Type: Unk
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 082615A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476	.0046	.0169	.0154	-.00003	.2795	>13.50	>22.50
#1	.0476	.0053	.0155	.0154	.00002	.2802	120.4	185.6
#2	.0475	.0039	.0183	.0154	-.00008	.2789	120.0	185.6

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.822	7.728	-.0152	.0005	.3740	.3494	1.087	.0004
#1	7.812	7.643	-.0149	.0002	.3742	.3498	1.086	-.0004
#2	7.832	7.814	-.0156	.0008	.3739	.3490	1.088	.0011

Elem	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	66.03	.02386	.0149	.0004	1.269	8.008	.0557
#1	.0106	66.07	.02380	.0135	.0004	1.277	7.992	.0538
#2	.0113	65.99	.02391	.0164	.0005	1.262	8.024	.0577

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4059	.0001	>450.0	.12273	-.0014	.0017	.0043	.0009
#1	.4126	-.0003	821.4	.12249	-.0018	.0019	.0044	.0007
#2	.3993	.0005	825.6	.12298	-.0011	.0014	.0042	.0011

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.5655	.5279	.0043	348.0
#1	.5649	.5286	.0040	347.9
#2	.5660	.5273	.0047	348.1

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3128.5	76536.	4643.8
#1	3128.7	76697.	4643.0
#2	3128.3	76374.	4644.7

NR- see 1/50 dilution
AM
8/26/15

Sample Name: CCVB Acquired: 8/26/2015 10:57:27 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.925	10.05	-.0096	1.020	9.677	.00001	.0005	.0005
Stddev	.033	.02	.0007	.008	.174	.00005	.0022	.0001
%RSD	.4745	.2320	6.916	.8060	1.798	722.49	480.2	10.79
#1	6.948	10.03	-.0100	1.025	9.554	.00004	-.0011	.0005
#2	6.901	10.07	-.0091	1.014	9.800	-.00003	.0020	.0004
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	9.910	9.574	-.0004	.0001	.0002	-.0004	9.891
Stddev	.0001	.007	.082	.0002	.0001	.0004	.0008	.044
%RSD	19.29	.0707	.8586	53.41	91.66	169.7	209.9	.4467
#1	.0004	9.905	9.516	-.0005	.0001	.0000	-.0009	9.860
#2	.0003	9.915	9.632	-.0002	.0000	.0005	.0002	9.922
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.014	10.16	9.571	9.979	1.0128	.9837	.0027
Stddev	.0010	.004	.03	.121	.005	.0010	.0049	.0006
%RSD	1034.	.3551	.2583	1.265	.0497	.09401	.4967	23.88
#1	-.0006	1.012	10.14	9.657	9.982	1.0134	.9802	.0022
#2	.0008	1.017	10.18	9.485	9.975	1.0121	.9871	.0031
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 8/26/2015 10:57:27 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	9.849	10.17	.0066	10.05	.0001	10.12	.97967
Stddev	.0002	.021	.03	.0021	.01	.0000	.02	.00039
%RSD	30.58	.2081	.3257	31.84	.0806	77.60	.1908	.03963
#1	-.0009	9.863	10.19	.0052	10.04	.0001	10.14	.97940
#2	-.0006	9.834	10.14	.0081	10.06	.0000	10.11	.97995
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	.0010	.0007	.0000	-.0001	.0002	1.015	1.030
Stddev	.0001	.0008	.0000	.000	.0001	.0000	.002	.000
%RSD	9.510	83.43	.9528	362.0	86.60	25.18	.2062	.0415
#1	-.0012	.0004	.0007	-.0001	-.0002	.0002	1.016	1.031
#2	-.0011	.0016	.0007	.0000	.0000	.0002	1.013	1.030
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3485.6	87429.	4881.8
Stddev	5.0	201.	10.9
%RSD	.14355	.22950	.22339
#1	3482.1	87571.	4889.5
#2	3489.2	87287.	4874.1

Sample Name: CCVA Acquired: 8/26/2015 11:00:04 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2418	.2674	.2500	.2606	.2507	.25858	.2574	.2534
Stddev	.0018	.0000	.0003	.0031	.0002	.00008	.0002	.0000
%RSD	.7320	.0080	.1031	1.201	.0843	.03199	.0691	.0057
#1	.2430	.2674	.2498	.2628	.2509	.25864	.2575	.2535
#2	.2405	.2673	.2501	.2584	.2506	.25852	.2573	.2534
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509	.5007	.4942	.2511	.2513	.2517	.2515	.2486
Stddev	.0001	.0006	.0017	.0031	.0001	.0001	.0012	.0072
%RSD	.0218	.1241	.3419	1.236	.0394	.0303	.4718	2.899
#1	.2510	.5002	.4954	.2489	.2513	.2517	.2507	.2537
#2	.2509	.5011	.4931	.2533	.2512	.2518	.2524	.2435
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	-.0016	.2437	.2495	.2470	.25116	.2429	.2480
Stddev	.0016	.0005	.0049	.0005	.0041	.00150	.0005	.0008
%RSD	.6568	34.06	2.015	.2106	1.649	.59729	.1874	.3393
#1	.2486	-.0012	.2402	.2499	.2498	.25010	.2432	.2486
#2	.2509	-.0020	.2471	.2491	.2441	.25222	.2426	.2474
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 8/26/2015 11:00:04 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	.0002	2.654	.2545	.1211	.2570	.2569	-.00003
Stddev	.0002	.0020	.005	.0021	.0005	.0012	.0161	.00003
%RSD	.0633	1078.	.1839	.8071	.4246	.4767	6.249	83.813
#1	.2504	-.0012	2.651	.2560	.1214	.2561	.2682	-.00001
#2	.2506	.0016	2.658	.2531	.1207	.2579	.2455	-.00005
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2488	.2507	.2512	.2511	.2543	.2633	.0038	.0060
Stddev	.0007	.0009	.0011	.0022	.0001	.0003	.0015	.0005
%RSD	.2861	.3572	.4412	.8679	.0546	.1240	39.10	7.904
#1	.2493	.2513	.2504	.2496	.2544	.2635	.0028	.0057
#2	.2483	.2501	.2520	.2526	.2542	.2630	.0049	.0063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3518.6	89021.	4872.6
Stddev	4.4	206.	13.1
%RSD	.12367	.23130	.26886
#1	3521.6	89166.	4863.4
#2	3515.5	88875.	4881.9

Sample Name: CCB Acquired: 8/26/2015 11:02:17 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0017	.0042	.0011	.0005	-.00004	.0003	.0001
Stddev	.0002	.0002	.0039	.0023	.0002	.00005	.0004	.0001
%RSD	49.26	12.53	94.52	214.9	44.82	138.64	158.6	79.75
#1	-.0002	.0016	.0014	.0027	.0006	-.00007	.0006	.0002
#2	-.0005	.0019	.0070	-.0006	.0003	.00000	.0000	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0140	.0001	.0001	-.0002	.0000	-.0004	-.0042
Stddev	.000	.0024	.0000	.0006	.0003	.001	.0002	.0018
%RSD	637.7	17.18	18.48	492.0	159.3	3519.	45.20	42.31
#1	-.0001	.0123	.0001	.0006	-.0005	-.0003	-.0002	-.0054
#2	.0000	.0157	.0001	-.0003	.0000	.0003	-.0005	-.0029
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0005	-.0222	.0001	-.0024	.00000	.0013	F .0053
Stddev	.0013	.0002	.0245	.0000	.0015	.00007	.0010	.0014
%RSD	150.2	35.43	110.4	21.10	62.51	1363.2	79.94	26.16
#1	-.0001	.0004	-.0049	.0001	-.0013	.00005	.0006	.0043
#2	.0018	.0006	-.0395	.0001	-.0034	-.00004	.0020	.0062
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Fail
High Limit								.0040
Low Limit								-.0040

Sample Name: CCB Acquired: 8/26/2015 11:02:17 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0020	.0686	.0124	-.0008	-.0001	-.0149	.00000
Stddev	.0001	.0013	.0281	.0027	.0027	.0006	.0013	.0000
%RSD	65.54	64.38	40.98	22.09	363.8	635.3	9.000	4013.2
#1	-.0002	-.0029	.0885	.0105	-.0027	.0003	-.0139	.00002
#2	-.0001	-.0011	.0487	.0144	.0012	-.0005	-.0158	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0001	-.0001	-.0004	.0001	.0018	.0040
Stddev	.0010	.0001	.0001	.0002	.0001	.0000	.0025	.0001
%RSD	318.5	147.2	114.4	132.0	18.00	77.65	137.8	2.652
#1	.0011	.0002	.0002	.0000	-.0003	.0001	.0035	.0039
#2	-.0004	.0000	.0000	-.0003	-.0004	.0000	.0000	.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3494.4	88579.	4768.7
Stddev	10.9	154.	45.6
%RSD	.31313	.17360	.95524
#1	3502.1	88471.	4736.5
#2	3486.7	88688.	4800.9

Sample Name: LLCCV Acquired: 8/26/2015 11:04:58 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0108	.0181	.0090	.0044	.00092	.0192	.0010
Stddev	.0000	.0006	.0000	.0001	.0001	.00003	.0015	.0000
%RSD	.4067	5.860	.1123	.8005	3.150	3.7146	7.672	4.892
#1	.0104	.0113	.0181	.0090	.0043	.00090	.0202	.0010
#2	.0104	.0104	.0181	.0091	.0045	.00095	.0181	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	F .0263	.0204	.0038	.0021	.0045	.0038	.0185
Stddev	.0000	.0004	.0001	.0007	.0001	.0001	.0005	.0006
%RSD	2.608	1.684	.6637	18.62	3.661	1.564	12.59	3.267
#1	.0010	.0260	.0205	.0043	.0021	.0045	.0042	.0181
#2	.0010	.0266	.0203	.0033	.0020	.0044	.0035	.0189
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0200						
Range		30.00%						

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020 *
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.0201	.0078	.0052	.0054	.00105	.0016	F .0052
Stddev	.0002	.0024	.0111	.0000	.0001	.00002	.0012	.0003
%RSD	1.865	12.10	142.1	.6169	1.035	2.0317	73.19	4.875
#1	.0105	.0184	.0000	.0052	.0054	.00107	.0024	.0051
#2	.0102	.0218	.0157	.0052	.0054	.00104	.0008	.0054
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None	Chk Fail
Value								.0040
Range								30.00%

*2X
GM
8/26/15

Sample Name: LLCCV Acquired: 8/26/2015 11:04:58 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0399	.2461	.0197	.2063	.0040	.1864	.00096
Stddev	.0002	.0004	.0098	.0015	.0118	.0002	.0055	.00001
%RSD	3.789	.9423	3.985	7.762	5.723	5.482	2.947	.71233
#1	.0042	.0396	.2531	.0208	.1979	.0042	.1902	.00095
#2	.0040	.0402	.2392	.0186	.2146	.0039	.1825	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.0204	.0022	.0041	.0040	.0044	.0251	.0426
Stddev	.0005	.0002	.0000	.0001	.0001	.0000	.0026	.0020
%RSD	4.954	1.030	.7664	3.415	2.013	.9364	10.49	4.642
#1	.0104	.0206	.0022	.0042	.0039	.0044	.0269	.0412
#2	.0097	.0203	.0022	.0040	.0041	.0044	.0232	.0440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3501.2	88800.	4839.1
Stddev	.3	435.	3.7
%RSD	.00979	.49032	.07568
#1	3501.0	89108.	4836.5
#2	3501.4	88492.	4841.7

Sample Name: LLCCV,0.5 Acquired: 8/26/2015 11:08:17 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.0224	.0383	.0165	.0085	.00202	.0394	.0020
Stddev	.0005	.0010	.0009	.0027	.0005	.00002	.0008	.0000
%RSD	2.405	4.474	2.250	16.14	5.846	.78417	1.999	1.188
#1	.0211	.0231	.0389	.0146	.0089	.00200	.0388	.0020
#2	.0204	.0217	.0376	.0184	.0082	.00203	.0399	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0489	.0420	.0079	.0041	.0083	.0073	.0375
Stddev	.0001	.0004	.0001	.0000	.0001	.0001	.0001	.0002
%RSD	3.345	.8022	.2339	.2459	2.405	1.165	1.784	.4141
#1	.0020	.0486	.0421	.0078	.0042	.0084	.0072	.0376
#2	.0019	.0491	.0419	.0079	.0041	.0083	.0073	.0374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195	.0408	-.0023	.0102	.0076	.00203	.0022	.0083
Stddev	.0001	.0035	.0058	.0001	.0003	.00004	.0010	.0002
%RSD	.5869	8.584	246.9	1.097	3.935	2.2038	45.51	1.978
#1	.0196	.0384	.0017	.0103	.0074	.00207	.0015	.0081
#2	.0194	.0433	-.0064	.0101	.0078	.00200	.0030	.0084
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: LLCCV,0.5 Acquired: 8/26/2015 11:08:17 Type: QC
Method: 2015B-ICP-03(v10) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	.0795	.4806	.0385	.3902	.0080	.3883	.00209
Stddev	.0000	.0024	.0293	.0024	.0073	.0002	.0058	.00012
%RSD	.2639	3.018	6.089	6.198	1.871	2.462	1.492	5.6343
#1	.0086	.0778	.4599	.0402	.3850	.0082	.3842	.00200
#2	.0085	.0812	.5013	.0368	.3954	.0079	.3924	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	.0418	.0040	.0078	.0083	.0086	.0447	.0830
Stddev	.0004	.0001	.0000	.0002	.0001	.0001	.0004	.0026
%RSD	1.929	.3115	.9954	2.558	.8647	.6584	.9763	3.101
#1	.0201	.0419	.0040	.0077	.0082	.0087	.0444	.0848
#2	.0195	.0417	.0041	.0080	.0083	.0086	.0450	.0812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	3475.9	87942.	4779.3
Stddev	10.9	302.	41.8
%RSD	.31307	.34341	.87556
#1	3483.6	87729.	4749.7
#2	3468.2	88156.	4808.9

Service Request # K1508582
Calibration 082015C
QC in calibration 082015C
QC Service Request # K1508582
STARLIMS run # 458729

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control	X		
7. Spike and duplicate in control	~~X~~*	X	
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control	X		
11. Interferences checked	X		
12. Se over MRL			X
13. LLICV run	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB in control		X*	
16. Serial dilution run	X		
17. Post spike in control	X		
18. Was run stop prematurely, If so why?		X	

Comments: *NR Zn. Mn MRL=1ppb. Ba,Pb MRL=2X.
① ~~Rerun for Zn~~. Need PDS for Ba. @ 200 ppb.
① ~~Dilute sample for Mn, Zn~~.
*High RPD for Cr-53?. Nonhomogeneous Sample.
① Report Mn, Zn by ICP mme 8/25/15

Primary Review By: mme Date: 8/21/15
Secondary Review By: [illegible] Date: 8/21/15

R:\icp\misc\data review forms\icpms review form

Data Review Form

Service Request #: **K1508582**
Instrument ID#: **K-ICP-MS-05**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-05 (Agilent)\082015C.csv**
RUNNO: **458729**

K1508582-001DUP - Metals T

DUP RPD

6020A/Metals T - 52 Cr [He] - RPD: 36 Limit: 20 Nonhomogeneous Sample.

Analytical Method 6020A

Primary Approver: 8/21/15

Secondary Approver: 8/25/15

US EPA Tune Check Sample Report

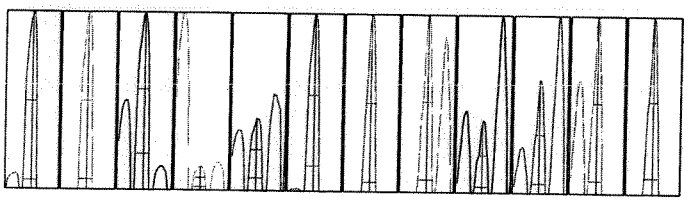
Batch Folder D:\Data\Experiments\082015A.b
Report Comment ALS Tune
Instrument Name G3281A JP13482848

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	71602	1.34	5.00	
9	29916	0.48	5.00	
24	199767	0.57	5.00	
25	28226	0.82	5.00	
26	33130	0.85	5.00	
59	341923	0.45	5.00	
115	429521	0.62	5.00	
206	78710	1.13	5.00	
207	70150	0.81	5.00	
208	168533	0.45	5.00	
209	257068	1.08	5.00	
238	317462	0.35	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
7	70911	70673	71483	71823	73120
9	29863	29758	29848	29984	30130
24	198880	198756	199845	199730	201624
25	27972	28128	28545	28107	28379
26	33141	32736	32996	33312	33464
59	344257	340365	341042	341280	342671
115	433811	428445	428500	430026	426823
206	80152	77895	78184	78404	78917
207	71123	70038	69700	70098	69791
208	169544	168025	167823	168141	169132
209	260178	252777	256287	258356	257739
238	318147	316903	318930	316041	317290

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
7	11906	7.00	6.9 - 7.1		0.782	0.900	
9	5073	8.95	8.9 - 9.1		0.780	0.900	
24	33439	23.95	23.9 - 24.1		0.745	0.900	
25	4558	24.95	24.9 - 25.1		0.750	0.900	
26	5395	25.90	25.9 - 26.1		0.751	0.900	
59	60813	58.95	58.9 - 59.1		0.744	0.900	
115	84551	114.95	114.9 - 115.1		0.768	0.900	
206	15435	206.00	205.9 - 206.1		0.783	0.900	
207	13561	206.95	206.9 - 207.1		0.787	0.900	
208	33000	207.95	207.9 - 208.1		0.782	0.900	
209	51094	209.00	208.9 - 209.1		0.785	0.900	
238	60514	238.00	237.9 - 238.1		0.838	0.900	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 279 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.57	L/min			
RF Matching	1.76	V	Option Gas	0.0	%			
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	°C						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.4	V			
Extract 2	-165.0	V	Cell Entrance	-30	V			
Omega Bias	-90	V	Cell Exit	-50	V			
Deflect	13.6	V						

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%			
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			
Energy Discrimination	5.0	V						

	Sample						
		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
1			001CALB.	8/20/2015 5:32:37 PM	CalBlk	Prime	
2			002CALB.	8/20/2015 5:37:24 PM	CalBlk	Prime	
3			003CALB.	8/20/2015 5:42:07 PM	CalBlk	Rinse	
4			004CALB.	8/20/2015 5:46:50 PM	CalBlk	Blank	
5			005CALS.	8/20/2015 5:52:00 PM	CalStd	25ppb	
6			006_ICV.d	8/20/2015 5:56:44 PM	ICV	ICV	
7			007_CCV.	8/20/2015 6:01:27 PM	CCV	CCV	
8			008_ICB.d	8/20/2015 6:06:11 PM	ICB	ICB	
9			009_CCB.	8/20/2015 6:10:55 PM	CCB	CCB	
10			010LICV.d	8/20/2015 6:15:40 PM	LLICV	LLICVS	
11			011ICSA.d	8/20/2015 6:20:25 PM	ICSA	ICSA	
12			012ICSB.d	8/20/2015 6:25:09 PM	ICSB	ICSAB	
13			013ICSB.d	8/20/2015 6:29:55 PM	ICSB	ICSAB	
14			014_PB.d	8/20/2015 6:34:40 PM	PB	KQ1508639-02	5
15			015_ARF.d	8/20/2015 6:39:26 PM	AllRef	K1508427-001	5
16			016SMPL.	8/20/2015 6:44:09 PM	Sample	K1508427-001D	5
17			017SMPL.	8/20/2015 6:48:52 PM	Sample	K1508427-001L	25
18			018_PDS.d	8/20/2015 6:53:37 PM	PDS	K1508427-001A	5 +50ppb +10ppb A
19			019_Spk.d	8/20/2015 6:58:21 PM	Spike	K1508427-001S	5
20			020_Spk.d	8/20/2015 7:03:01 PM	Spike	K1508427-001S	5
21			021_QCS.	8/20/2015 7:08:01 PM	QCS	KQ1508639-01	20
22			022SMPL.	8/20/2015 7:12:44 PM	Sample	K1508427-002	5
23			023SMPL.	8/20/2015 7:17:28 PM	Sample	K1508427-003	5
24			024_CCV.	8/20/2015 7:22:11 PM	CCV	CCV	
25			025_CCV.	8/20/2015 7:26:56 PM	CCV	CCV	
26			026_CCV.	8/20/2015 7:31:40 PM	CCV	CCV	
27			027_CCB.	8/20/2015 7:36:26 PM	CCB	CCB	
28			028SMPL.	8/20/2015 7:41:11 PM	Sample	K1508427-004	5
29			029SMPL.	8/20/2015 7:45:59 PM	Sample	K1508427-005	5
30			030SMPL.	8/20/2015 7:50:42 PM	Sample	K1508427-006	5
31			031SMPL.	8/20/2015 7:55:25 PM	Sample	K1508427-007	5
32			032_CCV.	8/20/2015 8:00:10 PM	CCV	CCV	
33			033_CCB.	8/20/2015 8:04:54 PM	CCB	CCB	
34			034LCCV.	8/20/2015 8:09:38 PM	LLCCV	LLCCVS	
35			035LCCV.	8/20/2015 8:14:23 PM	LLCCV	LLCCVS	
36			036LCCV.	8/20/2015 8:19:07 PM	LLCCV	LLCCVS	
37			037_QC1.d	8/20/2015 8:23:52 PM	QC1	LLCCVS 2X	
38			038_PB.d	8/20/2015 8:28:36 PM	PB	KQ1509037-02	5
39			039_ARF.d	8/20/2015 8:33:21 PM	AllRef	K1508582-001	5
40			040SMPL.	8/20/2015 8:38:00 PM	Sample	K1508582-001D	5

	Sample						
		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
41			041SMPL.	8/20/2015 8:42:39 PM	Sample	K1508582-001L	25
42			042_PDS.d	8/20/2015 8:47:21 PM	PDS	K1508582-001A	5 +50ppb +10ppb A
43			043_Spk.d	8/20/2015 8:51:59 PM	Spike	K1508582-001S	5
44			044_QCS.	8/20/2015 8:56:34 PM	QCS	KQ1509037-01	20
45			045_CCV.	8/20/2015 9:01:18 PM	CCV	CCV	
46			046_CCB.	8/20/2015 9:06:03 PM	CCB	CCB	
47			047_CCB.	8/20/2015 9:10:47 PM	CCB	CCB	
48			048_CCB.	8/20/2015 9:15:32 PM	CCB	CCB	
49			049LCCV.	8/20/2015 9:20:18 PM	LLCCV	LLCCVS	
50			050_QC1.d	8/20/2015 9:25:02 PM	QC1	LLCCVS 2X	
51			051_QC1.d	8/20/2015 9:29:47 PM	QC1	LLCCVS 2X	
52			052_QC1.d	8/20/2015 9:34:33 PM	QC1	LLCCVS 2X	
53			053SMPL.	8/20/2015 9:39:18 PM	Sample	LLCCVS 1ppb	
54			054_PB.d	8/20/2015 9:44:05 PM	PB	KQ1509042-02	5
55			055_ARF.d	8/20/2015 9:48:51 PM	AllRef	K1508362-001	5
56			056SMPL.	8/20/2015 9:53:36 PM	Sample	K1508362-001D	5
57			057SMPL.	8/20/2015 9:58:21 PM	Sample	K1508362-001L	25
58			058_PDS.d	8/20/2015 10:03:06 PM	PDS	K1508362-001A	5 +50ppb +10ppb A
59			059_Spk.d	8/20/2015 10:07:51 PM	Spike	K1508362-001S	5
60			060_QCS.	8/20/2015 10:12:30 PM	QCS	KQ1509042-01	20
61			061SMPL.	8/20/2015 10:17:15 PM	Sample	K1508362-002	5
62			062_CCV.	8/20/2015 10:21:58 PM	CCV	CCV	
63			063_CCB.	8/20/2015 10:26:44 PM	CCB	CCB	
64			064LCCV.	8/20/2015 10:31:29 PM	LLCCV	LLCCVS	
65			065_QC1.d	8/20/2015 10:36:14 PM	QC1	LLCCVS 2X	
66			066SMPL.	8/20/2015 10:40:59 PM	Sample	LLCCVS 1ppb	
67			067_PB.d	8/20/2015 10:45:45 PM	PB	KQ1509044-02	5
68			068_ARF.d	8/20/2015 10:50:30 PM	AllRef	K1508969-001	5
69			069SMPL.	8/20/2015 10:55:15 PM	Sample	K1508969-001D	5
70			070SMPL.	8/20/2015 11:00:00 PM	Sample	K1508969-001L	25
71			071_PDS.d	8/20/2015 11:04:46 PM	PDS	K1508969-001A	5 +50ppb +10ppb A
72			072_Spk.d	8/20/2015 11:09:32 PM	Spike	K1508969-001S	5
73			073_LCS.d	8/20/2015 11:14:14 PM	LCS	KQ1509044-01	20
74			074SMPL.	8/20/2015 11:19:00 PM	Sample	K1508969-002	5
75			075_CCV.	8/20/2015 11:23:46 PM	CCV	CCV	
76			076_CCB.	8/20/2015 11:28:32 PM	CCB	CCB	
77			077LCCV.	8/20/2015 11:33:18 PM	LLCCV	LLCCVS	
78			078_QC1.d	8/20/2015 11:38:03 PM	QC1	LLCCVS 2X	
79			079SMPL.	8/20/2015 11:42:49 PM	Sample	LLCCVS 1ppb	
80			080_ARF.d	8/20/2015 11:47:35 PM	AllRef	K1508377-007	5

Sample

	Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
81		081SMPL.	8/20/2015 11:52:20 PM	Sample	K1508377-007D	5
82		082_Spk.d	8/20/2015 11:57:06 PM	Spike	K1508377-007S	5
83		083SMPL.	8/21/2015 12:01:48 AM	Sample	K1508378-008	5
84		084SMPL.	8/21/2015 12:06:34 AM	Sample	K1508483-008	5
85		085SMPL.	8/21/2015 12:11:21 AM	Sample	K1508494-001	5
86		086SMPL.	8/21/2015 12:16:06 AM	Sample	K1508494-002	5
87		087SMPL.	8/21/2015 12:20:52 AM	Sample	K1508494-003	5
88		088SMPL.	8/21/2015 12:25:37 AM	Sample	K1508619-008	5
89		089SMPL.	8/21/2015 12:30:23 AM	Sample	K1508877-001	5
90		090_CCV.	8/21/2015 12:35:07 AM	CCV	CCV	
91		091_CCB.	8/21/2015 12:39:52 AM	CCB	CCB	

Analyte

	Name	Mass	ISTD	Tune Mode
1	Be	9	45	No Gas
2	V	51	72	He
3	Cr	52	72	He
4	Cr	53	72	He
5	Mn	55	72	He
6	Co	59	72	He
7	Ni	60	72	He
8	Ni	62	72	He
9	Cu	63	72	He
10	Cu	65	72	He
11	Zn	66	72	He
12	As	75	72	He
13	Se	77	72	H2
14	Se	78	72	H2
15	Mo	95	103	He
16	Mo	97	103	He
17	Mo	98	103	He
18	Ag	107	103	He
19	Ag	109	103	He
20	Cd	111	103	He
21	Cd	114	103	He
22	Sb	121	115	He
23	Sb	123	115	He
24	Ba	135	115	He
25	Ba	137	115	He
26	Tl	203	175	He
27	Tl	205	175	He

Analyte				
	Name	Mass	ISTD	Tune Mode
28	[Pb]	206	175	He
29	[Pb]	207	175	He
30	Pb	208	175	He
31	Li	6		No Gas
32	Sc	45		No Gas
33	Sc	45		He
34	Sc	45		H2
35	Ga	71		H2
36	Ge	72		No Gas
37	Ge	72		He
38	Ge	72		H2
39	Y	89		He
40	Rh	103		He
41	In	115		He
42	Lu	175		He
43	Th	232		He

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	004CALB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T17:46:50-07:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	28	31.35
V	51	He	106	19.23
Cr	52	He	758	1.04
Cr	53	He	108	38.21
Mn	55	He	183	8.82
Co	59	He	77	17.01
Ni	60	He	258	1.61
Ni	62	He	43	46.95
Cu	63	He	229	5.77
Cu	65	He	110	16.53
Zn	66	He	228	13.51
As	75	He	14	241.42
Se	77	H2	1280	0.94
Se	78	H2	25	99.07
Mo	95	He	18	60.82
Mo	97	He	19	328.01
Mo	98	He	50	48.06
Ag	107	He	33	30.02
Ag	109	He	38	119.89
Cd	111	He	4	724.78
Cd	114	He	12	84.84
Sb	121	He	164	13.27
Sb	123	He	129	6.77
Ba	135	He	8	1147.15
Ba	137	He	22	127.94
Tl	203	He	69	4.05
Tl	205	He	218	8.84
[Pb]	206	He	184	4.53
[Pb]	207	He	162	13.89
Pb	208	He	768	0.94

8/21/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD
Sc	45	No Gas	12521331	1.22
Ge	72	He	207726	0.60
Ge	72	H2	2177262	3.41
Rh	103	He	6761953	1.48
In	115	He	1642329	1.67
Lu	175	He	3701453	1.09

Calibration Standard Report

Sample Table

Sample Name	25ppb
Data File Name	005CALS.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T17:52:00-07:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	119432	0.00
V	51	He	114472	0.00
Cr	52	He	152498	0.00
Cr	53	He	18801	0.02
Mn	55	He	60829	0.00
Co	59	He	289200	0.00
Ni	60	He	82213	0.00
Ni	62	He	13039	0.03
Cu	63	He	232314	0.00
Cu	65	He	115627	0.00
Zn	66	He	28010	0.01
As	75	He	16200	0.01
Se	77	H2	9325	0.02
Se	78	H2	25478	0.01
Mo	95	He	97490	0.00
Mo	97	He	64990	0.00
Mo	98	He	168026	0.00
Ag	107	He	355047	0.00
Ag	109	He	348307	0.00
Cd	111	He	39254	0.00
Cd	114	He	100162	0.00
Sb	121	He	92649	0.00
Sb	123	He	74720	0.00
Ba	135	He	14920	0.02
Ba	137	He	27478	0.00
Tl	203	He	239455	0.00
Tl	205	He	579284	0.00
[Pb]	206	He	191346	0.00
[Pb]	207	He	167243	0.00
Pb	208	He	764346	0.00

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	12569808	1.43	12521331	100.39	70	125	
Ge	72	He	206526	0.86	207726	99.42	70	125	
Ge	72	H2	2111125	1.22	2177262	96.96	70	125	
Rh	103	He	6693231	0.96	6761953	98.98	70	125	
In	115	He	1643796	1.79	1642329	100.09	70	125	
Lu	175	He	3732107	1.17	3701453	100.83	70	125	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	006_ICV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T17:56:44-07:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.667	2.153	12578	1.78	2.5	107	
V	51	He	25.317	0.679	116684	1.74	25	101	
Cr	52	He	10.369	2.012	64093	1.46	10	104	
Cr	53	He	10.268	1.131	7835	1.52	10	103	
Mn	55	He	25.155	1.001	61599	0.46	25	101	
Co	59	He	25.386	1.898	295555	1.24	25	102	
Ni	60	He	25.678	1.201	84979	0.98	25	103	
Ni	62	He	25.211	2.580	13233	2.65	25	101	
Cu	63	He	12.865	1.741	120427	0.52	12.5	103	
Cu	65	He	12.686	1.748	59106	0.76	12.5	101	
Zn	66	He	26.209	2.058	29541	0.65	25	105	
As	75	He	26.138	0.532	17048	1.98	25	105	
Se	77	H2	26.411	0.431	9762	0.58	25	106	
Se	78	H2	25.796	0.644	26244	0.52	25	103	
Mo	95	He	25.561	0.838	101630	0.35	25	102	
Mo	97	He	25.261	1.322	66954	0.88	25	101	
Mo	98	He	25.575	2.088	175255	2.11	25	102	
Ag	107	He	12.562	1.211	181892	1.01	12.5	100	
Ag	109	He	12.581	1.746	178742	1.89	12.5	101	
Cd	111	He	12.916	1.093	20679	0.91	12.5	103	
Cd	114	He	13.160	1.305	53764	0.77	12.5	105	
Sb	121	He	25.269	2.816	94762	1.82	25	101	
Sb	123	He	25.253	2.259	76387	1.56	25	101	
Ba	135	He	100.450	2.401	60664	2.85	100	100	
Ba	137	He	101.935	1.432	113343	1.66	100	102	
Tl	203	He	26.195	0.484	251817	0.29	25	105	
Tl	205	He	26.319	0.366	612062	0.28	25	105	
[Pb]	206	He	25.416	0.936	195248	0.38	25	102	
[Pb]	207	He	26.179	0.290	175773	0.44	25	105	
Pb	208	He	25.822	0.533	792346	0.32	25	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	12382745	0.64	12521331	98.89	70	125	
Ge	72	He	207879	1.45	207726	100.07	70	125	
Ge	72	H2	2107297	0.20	2177262	96.79	70	125	
Rh	103	He	6824354	0.74	6761953	100.92	70	125	
In	115	He	1663839	2.06	1642329	101.31	70	125	
Lu	175	He	3745680	0.59	3701453	101.19	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	007_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:01:27-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	26.016	0.313	117103	1.32	25	104	
V	51	He	24.589	6.541	104063	5.29	25	98	
Cr	52	He	25.033	6.029	141116	4.76	25	100	
Cr	53	He	24.990	6.213	17370	4.99	25	100	
Mn	55	He	24.597	5.882	55321	4.64	25	98	
Co	59	He	25.045	4.488	267816	3.25	25	100	
Ni	60	He	25.149	3.240	76456	2.09	25	101	
Ni	62	He	25.040	5.271	12071	4.02	25	100	
Cu	63	He	25.871	2.984	222262	1.88	25	103	
Cu	65	He	25.567	2.730	109331	1.78	25	102	
Zn	66	He	25.721	2.277	26638	1.03	25	103	
As	75	He	25.581	0.380	15328	0.84	25	102	
Se	77	H2	24.933	2.728	9400	0.71	25	100	
Se	78	H2	24.516	1.217	25256	1.17	25	98	
Mo	95	He	24.873	1.533	94437	0.41	25	99	
Mo	97	He	24.639	0.472	62368	0.72	25	99	
Mo	98	He	24.875	1.512	162778	1.00	25	100	
Ag	107	He	24.802	1.606	342920	1.35	25	99	
Ag	109	He	24.783	0.870	336195	0.62	25	99	
Cd	111	He	24.483	0.925	37433	1.28	25	98	
Cd	114	He	24.570	0.364	95852	1.00	25	98	
Sb	121	He	25.567	3.454	87192	0.39	25	102	
Sb	123	He	25.911	1.956	71295	1.49	25	104	
Ba	135	He	25.643	1.958	14093	2.79	25	103	
Ba	137	He	25.496	3.804	25793	1.98	25	102	
Tl	203	He	25.537	1.705	237720	1.25	25	102	
Tl	205	He	25.651	2.378	577590	1.03	25	103	
[Pb]	206	He	25.447	2.537	189292	1.94	25	102	
[Pb]	207	He	25.680	2.496	166952	1.80	25	103	
Pb	208	He	25.638	2.871	761707	1.69	25	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11842727	1.61	12521331	94.58	70	125	
Ge	72	He	190982	1.22	207726	91.94	70	125	
Ge	72	H2	2134049	2.37	2177262	98.02	70	125	
Rh	103	He	6517169	1.13	6761953	96.38	70	125	
In	115	He	1513834	3.38	1642329	92.18	70	125	
Lu	175	He	3628184	2.92	3701453	98.02	70	125	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	008_ICB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:06:11-07:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.005	35.2	48	14.7	0.04	
V	51	He	0.000	1176.7	102	22.9	0.4	
Cr	52	He	0.008	110.9	767	8.0	0.4	
Cr	53	He	-0.001	-645.7	101	6.9	0.4	
Mn	55	He	-0.016	-118.6	137	32.3	0.1	
Co	59	He	0.002	106.5	99	28.1	0.04	
Ni	60	He	-0.001	-806.1	242	6.4	0.4	
Ni	62	He	0.013	171.0	48	24.5	0.4	
Cu	63	He	0.005	50.0	263	9.9	0.2	
Cu	65	He	0.002	107.5	113	8.8	0.2	
Zn	66	He	-0.041	-50.3	172	12.4	1	
As	75	He	0.000	22848.8	13	40.7	1	
Se	77	H2	0.029	403.8	1237	3.8	20	
Se	78	H2	-0.006	-65.6	18	22.2	2	
Mo	95	He	0.008	43.8	48	29.0	0.1	
Mo	97	He	0.006	90.2	33	40.0	0.1	
Mo	98	He	0.007	35.7	93	17.9	0.1	
Ag	107	He	0.002	45.7	61	22.0	0.04	
Ag	109	He	0.001	121.5	51	33.5	0.04	
Cd	111	He	0.003	82.7	8	42.6	0.04	
Cd	114	He	0.003	20.1	24	9.8	0.04	
Sb	121	He	0.012	43.3	201	12.8	0.2	
Sb	123	He	0.007	227.3	143	27.3	0.1	
Ba	135	He	0.003	497.4	9	94.4	0.1	
Ba	137	He	0.001	397.4	22	15.4	0.1	
Tl	203	He	0.018	17.5	234	12.4	0.04	
Tl	205	He	0.017	2.3	597	1.5	0.04	
[Pb]	206	He	0.002	436.6	194	26.0	0.1	
[Pb]	207	He	0.002	189.8	174	14.6	0.1	
Pb	208	He	-0.001	-314.5	732	12.6	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11686133	0.95	12521331	93.33	70	125	
Ge	72	He	197069	1.13	207726	94.87	70	125	
Ge	72	H2	2092479	1.61	2177262	96.11	70	125	
Rh	103	He	6538703	1.04	6761953	96.70	70	125	
In	115	He	1577022	5.37	1642329	96.02	70	125	
Lu	175	He	3670442	0.04	3701453	99.16	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	009_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:10:55-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.002	63.1	36	16.9	0.04	
V	51	He	-0.004	-24.2	77	4.4	0.4	
Cr	52	He	0.008	187.5	701	12.1	0.4	
Cr	53	He	0.005	780.8	97	26.0	0.4	
Mn	55	He	-0.014	-43.8	130	9.2	0.1	
Co	59	He	0.002	160.6	88	38.8	0.04	
Ni	60	He	-0.003	-431.2	216	16.1	0.4	
Ni	62	He	-0.019	-97.2	29	29.0	0.4	
Cu	63	He	0.004	187.3	231	26.0	0.2	
Cu	65	He	0.002	336.0	102	22.2	0.2	
Zn	66	He	-0.017	-100.0	181	9.4	1	
As	75	He	-0.001	-471.6	11	22.2	1	
Se	77	H2	-0.082	-156.9	1176	3.8	20	
Se	78	H2	-0.005	-94.0	18	24.2	2	
Mo	95	He	0.001	489.8	20	83.4	0.1	
Mo	97	He	0.000	14334.5	18	47.2	0.1	
Mo	98	He	-0.001	-143.2	41	16.9	0.1	
Ag	107	He	0.002	12.5	58	6.7	0.04	
Ag	109	He	0.001	164.3	50	48.1	0.04	
Cd	111	He	0.000	-509.5	3	82.6	0.04	
Cd	114	He	0.001	128.0	14	26.5	0.04	
Sb	121	He	0.005	113.0	156	12.3	0.2	
Sb	123	He	0.009	42.4	133	8.7	0.1	
Ba	135	He	0.022	45.8	18	28.6	0.1	
Ba	137	He	0.001	307.1	20	22.0	0.1	
Tl	203	He	0.006	6.2	120	2.8	0.04	
Tl	205	He	0.003	73.7	274	18.4	0.04	
[Pb]	206	He	0.003	174.8	194	17.2	0.1	
[Pb]	207	He	-0.001	-548.8	150	14.6	0.1	
Pb	208	He	0.001	409.5	747	9.7	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11460243	0.96	12521331	91.53	70	125	
Ge	72	He	180333	0.62	207726	86.81	70	125	
Ge	72	H2	2048049	1.94	2177262	94.07	70	125	
Rh	103	He	6297347	1.61	6761953	93.13	70	125	
In	115	He	1405441	1.60	1642329	85.58	70	125	
Lu	175	He	3511425	0.52	3701453	94.87	70	125	

Low Level Initial Calibration Verification (LLICV) Report

Sample Table

Sample Name	LLICVS
Data File Name	010LICV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:15:40-07:00
Sample Type	LLICV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.042	11.231	206	9.38	0.04	104	
V	51	He	0.408	7.170	1691	7.40	0.4	102	
Cr	52	He	0.411	4.683	2780	2.94	0.4	103	
Cr	53	He	0.342	17.594	311	12.96	0.4	86	
Mn	55	He	0.093	18.943	349	11.16	0.1	93	
Co	59	He	0.033	14.938	396	12.34	0.04	83	
Ni	60	He	0.425	2.541	1415	2.68	0.4	106	
Ni	62	He	0.363	38.006	199	31.37	0.4	91	
Cu	63	He	0.228	8.825	2008	8.06	0.2	114	
Cu	65	He	0.242	5.240	1051	4.19	0.2	121	
Zn	66	He	0.991	1.769	1138	0.74	1	99	
As	75	He	1.000	2.402	566	1.62	1	100	
Se	77	H2	2.025	10.177	1858	5.07	2	101	
Se	78	H2	1.994	2.873	2014	1.65	2	100	
Mo	95	He	0.100	14.252	378	14.56	0.1	100	
Mo	97	He	0.108	12.406	278	12.08	0.1	108	
Mo	98	He	0.103	4.466	689	4.87	0.1	103	
Ag	107	He	0.042	7.673	588	5.74	0.04	105	
Ag	109	He	0.037	10.609	512	9.23	0.04	92	
Cd	111	He	0.042	18.906	66	19.27	0.04	105	
Cd	114	He	0.042	7.360	169	5.79	0.04	106	
Sb	121	He	0.109	6.263	478	3.49	0.1	109	
Sb	123	He	0.112	12.235	390	8.41	0.1	112	
Ba	135	He	0.109	22.357	61	20.65	0.1	109	
Ba	137	He	0.095	5.027	106	3.95	0.1	95	
Tl	203	He	0.048	23.199	498	20.90	0.04	120	
Tl	205	He	0.046	3.110	1199	3.12	0.04	114	
[Pb]	206	He	0.112	11.017	979	9.02	0.1	112	
[Pb]	207	He	0.109	5.358	840	3.97	0.1	109	
Pb	208	He	0.107	0.824	3816	0.83	0.1	107	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11348451	0.48	12521331	90.63	70	125	
Ge	72	He	176929	0.77	207726	85.17	70	125	
Ge	72	H2	2070378	2.25	2177262	95.09	70	125	
Rh	103	He	6227469	1.65	6761953	92.10	70	125	
In	115	He	1384633	1.04	1642329	84.31	70	125	
Lu	175	He	3510056	0.80	3701453	94.83	70	125	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	011ICSA.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:20:25-07:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	QC Flag
Be	9	No Gas	0.011	31.3	71	18.7	
V	51	He	0.017	35.1	153	13.2	
Cr	52	He	0.226	6.8	1792	3.5	
Cr	53	He	0.192	32.0	211	17.4	
Mn	55	He	1.378	1.7	2976	3.3	
Co	59	He	0.240	3.6	2404	4.8	
Ni	60	He	0.322	7.8	1107	4.7	
Ni	62	He	0.265	37.7	153	30.4	
Cu	63	He	0.336	3.2	2825	4.9	
Cu	65	He	0.373	4.8	1547	5.5	
Zn	66	He	0.893	6.1	1029	4.6	
As	75	He	0.064	16.5	47	13.1	
Se	77	H2	0.617	5.9	1385	3.6	
Se	78	H2	0.040	18.9	62	11.6	
Mo	95	He	53.428	2.3	180919	2.2	
Mo	97	He	53.410	0.2	120571	1.7	
Mo	98	He	53.455	0.9	311958	1.3	
Ag	107	He	0.034	5.1	442	4.2	
Ag	109	He	0.032	6.6	418	5.1	
Cd	111	He	0.103	6.7	144	5.0	
Cd	114	He	0.098	1.5	351	1.9	
Sb	121	He	0.286	3.3	993	3.0	
Sb	123	He	0.271	5.0	762	4.6	
Ba	135	He	0.155	28.8	81	26.4	
Ba	137	He	0.192	8.1	189	6.7	
Tl	203	He	0.003	107.2	88	28.5	
Tl	205	He	0.000	-410.6	193	21.6	
[Pb]	206	He	0.087	3.8	784	2.6	
[Pb]	207	He	0.080	5.7	647	4.4	
Pb	208	He	0.081	3.4	3013	2.3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11300640	1.25	12521331	90.25	70	125	
Ge	72	He	174354	1.85	207726	83.93	70	125	
Ge	72	H2	2032934	2.83	2177262	93.37	70	125	
Rh	103	He	5812854	1.47	6761953	85.96	70	125	
In	115	He	1334669	0.61	1642329	81.27	70	125	
Lu	175	He	3448391	0.51	3701453	93.16	70	125	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	012ICSB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:25:09-07:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.014	27.699	86	23.23	-1	-1.4	
V	51	He	49.819	2.164	191559	0.97	50	99.6	
Cr	52	He	49.444	1.729	252743	0.50	50	98.9	
Cr	53	He	49.190	1.635	30997	2.34	50	98.4	
Mn	55	He	49.088	1.545	100201	0.34	50	98.2	
Co	59	He	48.321	0.366	469631	0.93	50	96.6	
Ni	60	He	47.892	1.197	132146	2.21	50	95.8	
Ni	62	He	48.267	2.032	21121	3.17	50	96.5	
Cu	63	He	49.395	1.160	385500	1.43	50	98.8	
Cu	65	He	49.950	0.887	194021	0.69	50	99.9	
Zn	66	He	31.358	2.220	29473	2.20	25	125.4	ICSB Failed
As	75	He	25.980	2.165	14144	1.42	25	103.9	
Se	77	H2	26.426	1.412	9393	1.70	25	105.7	
Se	78	H2	25.259	0.871	24712	0.17	25	101.0	
Mo	95	He	54.193	1.129	183510	0.57	50	108.4	
Mo	97	He	53.862	1.575	121577	1.17	50	107.7	
Mo	98	He	54.775	0.286	319691	1.81	50	109.5	
Ag	107	He	12.733	1.196	157030	0.71	12.5	101.9	
Ag	109	He	12.653	0.797	153120	1.75	12.5	101.2	
Cd	111	He	25.210	0.784	34378	1.36	25	100.8	
Cd	114	He	24.764	1.205	86162	0.45	25	99.1	
Sb	121	He	0.288	5.436	972	3.65	-1	-28.8	
Sb	123	He	0.273	6.441	746	6.32	-1	-27.3	
Ba	135	He	0.133	30.360	69	28.35	-1	-13.3	
Ba	137	He	0.182	7.133	175	6.25	-1	-18.2	
Tl	203	He	0.002	26.195	81	6.28	-1	-0.2	
Tl	205	He	0.001	217.998	222	19.97	-1	-0.1	
[Pb]	206	He	0.091	10.049	811	7.78	-1	-9.1	
[Pb]	207	He	0.095	6.293	729	4.32	-1	-9.5	
Pb	208	He	0.092	2.887	3281	2.34	-1	-9.2	

Not Zn
[illegible]
8/21/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11012726	4.12	12521331	87.95	70	125	
Ge	72	He	173537	1.23	207726	83.54	70	125	
Ge	72	H2	2026445	0.79	2177262	93.07	70	125	
Rh	103	He	5813075	1.65	6761953	85.97	70	125	
In	115	He	1298265	1.12	1642329	79.05	70	125	
Lu	175	He	3419527	0.77	3701453	92.38	70	125	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	013ICSB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:29:55-07:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

NR 8/21/15

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.010	11.602	65	7.99	-1	-1.0	
V	51	He	50.350	1.323	191745	1.40	50	100.7	
Cr	52	He	49.986	1.241	253039	0.94	50	100.0	
Cr	53	He	49.480	1.349	30872	0.80	50	99.0	
Mn	55	He	48.924	1.395	98899	0.83	50	97.8	
Co	59	He	49.277	1.144	474236	0.57	50	98.6	
Ni	60	He	49.343	0.349	134802	0.49	50	98.7	
Ni	62	He	49.377	0.679	21391	0.09	50	98.8	
Cu	63	He	50.524	2.076	390437	1.47	50	101.0	
Cu	65	He	50.084	0.491	192653	0.40	50	100.2	
Zn	66	He	31.075	1.326	28927	1.91	25	124.3	ICSB Failed
As	75	He	26.145	1.442	14095	0.86	25	104.6	
Se	77	H2	26.262	1.263	9268	1.69	25	105.0	
Se	78	H2	25.516	2.598	24762	1.36	25	102.1	
Mo	95	He	55.229	0.550	183575	0.68	50	110.5	
Mo	97	He	54.791	0.493	121399	0.67	50	109.6	
Mo	98	He	55.180	0.266	316091	0.96	50	110.4	
Ag	107	He	12.821	1.195	155218	1.60	12.5	102.6	
Ag	109	He	12.728	0.694	151188	1.48	12.5	101.8	
Cd	111	He	25.573	0.455	34230	0.87	25	102.3	
Cd	114	He	25.432	0.853	86857	0.19	25	101.7	
Sb	121	He	0.293	6.102	997	5.17	-1	-29.3	
Sb	123	He	0.298	2.700	814	1.99	-1	-29.8	
Ba	135	He	0.201	22.512	102	20.97	-1	-20.1	
Ba	137	He	0.186	2.279	181	2.32	-1	-18.6	
Tl	203	He	0.001	147.422	69	12.18	-1	-0.1	
Tl	205	He	-0.002	-29.778	151	8.92	-1	0.2	
[Pb]	206	He	0.090	4.946	800	4.41	-1	-9.0	
[Pb]	207	He	0.093	13.215	718	10.95	-1	-9.3	
Pb	208	He	0.089	2.395	3202	1.67	-1	-8.9	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11045785	1.64	12521331	88.22	70	125	
Ge	72	He	171843	0.62	207726	82.73	70	125	
Ge	72	H2	2010447	1.24	2177262	92.34	70	125	
Rh	103	He	5705505	0.88	6761953	84.38	70	125	
In	115	He	1315235	0.42	1642329	80.08	70	125	
Lu	175	He	3414757	0.93	3701453	92.25	70	125	

Prep Blank (PB) Report

Sample Table

Sample Name	KQ1508639-02
Data File Name	014_PB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:34:40-07:00
Sample Type	PB
Dilution	1
Comment	5
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.000	426.9	26	14.8	0.04	
V	51	He	0.002	178.3	97	15.0	0.4	
Cr	52	He	0.164	11.1	1475	6.3	0.4	
Cr	53	He	0.162	14.9	192	7.8	0.4	
Mn	55	He	0.014	166.7	183	26.8	0.1	
Co	59	He	0.007	21.6	128	10.5	0.04	
Ni	60	He	0.042	45.7	333	15.9	0.4	
Ni	62	He	0.031	126.6	50	34.6	0.4	
Cu	63	He	0.061	22.3	666	15.7	0.2	
Cu	65	He	0.056	34.3	312	24.3	0.2	
Zn	66	He	0.172	32.0	352	14.8	1	
As	75	He	-0.006	-97.8	8	36.7	1	
Se	77	H2	0.045	702.4	1225	7.6	2	
Se	78	H2	-0.005	-93.3	18	29.4	2	
Mo	95	He	0.020	11.2	90	9.8	0.1	
Mo	97	He	0.016	73.6	56	48.9	0.1	
Mo	98	He	0.019	1.1	168	1.1	0.1	
Ag	107	He	0.002	70.7	52	28.8	0.04	
Ag	109	He	0.002	82.3	56	30.8	0.04	
Cd	111	He	0.002	52.8	8	24.0	0.04	
Cd	114	He	0.107	3.6	415	5.3	0.04	Flag
Sb	121	He	-0.009	-50.1	111	13.4	0.1	
Sb	123	He	-0.003	-253.0	101	19.2	0.1	
Ba	135	He	0.002	304.3	8	49.5	0.1	
Ba	137	He	0.010	111.9	27	35.9	0.1	
Tl	203	He	-0.003	-37.8	37	31.5	0.04	
Tl	205	He	-0.006	-12.0	70	21.8	0.04	
[Pb]	206	He	0.010	55.2	251	15.1	0.1	
[Pb]	207	He	0.004	173.8	180	23.2	0.1	
Pb	208	He	0.005	64.7	892	10.8	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10992487	1.96	12521331	87.79	70	125	
Ge	72	He	174093	0.20	207726	83.81	70	125	
Ge	72	H2	2064084	3.39	2177262	94.80	70	125	
Rh	103	He	6302170	1.86	6761953	93.20	70	125	
In	115	He	1387470	1.07	1642329	84.48	70	125	
Lu	175	He	3538340	1.97	3701453	95.59	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1508427-001
Data File Name	015_ARF.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:39:26-07:00
Sample Type	AllRef
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.964	4.63	4359	0.02	
V	51	He	120.525	1.90	463839	0.03	
Cr	52	He	30.845	1.90	158089	0.02	
Cr	53	He	31.102	3.50	19648	0.16	
Mn	55	He	1500.914	2.05	3062535	0.05	
Co	59	He	27.133	3.23	263964	0.01	
Ni	60	He	27.971	2.34	77338	0.04	
Ni	62	He	27.656	2.21	12128	0.23	
Cu	63	He	46.376	2.99	362305	0.01	
Cu	65	He	46.112	2.14	179307	0.03	
Zn	66	He	97.993	1.23	91798	0.11	
As	75	He	34.038	1.16	18549	0.18	
Se	77	H2	2.660	14.06	2074	0.13	
Se	78	H2	1.353	3.51	1386	0.10	
Mo	95	He	0.756	5.82	2714	0.03	
Mo	97	He	0.780	5.70	1872	0.04	
Mo	98	He	0.754	5.07	4677	0.02	
Ag	107	He	0.060	6.80	808	0.01	
Ag	109	He	0.055	6.49	731	0.01	
Cd	111	He	0.345	2.90	500	0.07	
Cd	114	He	0.468	0.63	1725	0.03	
Sb	121	He	0.922	2.84	3025	0.03	
Sb	123	He	0.900	2.64	2382	0.04	
Ba	135	He	410.369	1.85	207276	0.20	
Ba	137	He	413.824	2.10	384831	0.11	
Tl	203	He	2.450	1.58	22282	0.01	
Tl	205	He	2.474	1.98	54473	0.00	
[Pb]	206	He	16.063	1.67	116499	0.01	
[Pb]	207	He	15.182	2.01	96243	0.02	
Pb	208	He	15.647	1.28	453331	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11833351	2.34	12521331	94.51	70	125	
Ge	72	He	173739	1.47	207726	83.64	70	125	
Ge	72	H2	2088662	3.33	2177262	95.93	70	125	
Rh	103	He	6125506	1.34	6761953	90.59	70	125	
In	115	He	1391779	1.02	1642329	84.74	70	125	
Lu	175	He	3534875	1.77	3701453	95.50	70	125	

Sample Report

Sample Table

Sample Name	K1508427-001D
Data File Name	016SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:44:09-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.071	1.86	4771	0.02	
V	51	He	131.881	1.57	514835	0.03	
Cr	52	He	33.949	1.31	176429	0.02	
Cr	53	He	34.107	2.76	21851	0.16	
Mn	55	He	1447.036	1.90	2995106	0.05	
Co	59	He	28.783	0.28	284058	0.01	
Ni	60	He	30.862	0.70	86532	0.04	
Ni	62	He	30.982	2.64	13776	0.22	
Cu	63	He	50.339	0.45	398897	0.01	
Cu	65	He	49.909	1.41	196850	0.03	
Zn	66	He	109.107	0.98	103648	0.11	
As	75	He	36.682	0.36	20274	0.18	
Se	77	H2	2.977	1.46	2142	0.14	
Se	78	H2	1.478	3.67	1487	0.10	
Mo	95	He	0.864	1.97	3069	0.03	
Mo	97	He	0.904	4.46	2146	0.04	
Mo	98	He	0.900	6.00	5529	0.02	
Ag	107	He	0.064	3.59	849	0.01	
Ag	109	He	0.063	5.15	828	0.01	
Cd	111	He	0.422	3.88	604	0.07	
Cd	114	He	0.517	1.56	1890	0.03	
Sb	121	He	0.866	3.64	2836	0.03	
Sb	123	He	0.897	5.70	2361	0.04	
Ba	135	He	431.522	1.19	216730	0.20	
Ba	137	He	435.046	0.82	402294	0.11	
Tl	203	He	2.311	1.10	20979	0.01	
Tl	205	He	2.285	1.72	50227	0.00	
[Pb]	206	He	18.097	2.79	130916	0.01	
[Pb]	207	He	17.124	3.07	108274	0.02	
Pb	208	He	17.536	2.48	506762	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11662381	1.50	12521331	93.14	70	125	
Ge	72	He	176198	0.47	207726	84.82	70	125	
Ge	72	H2	2054383	1.23	2177262	94.36	70	125	
Rh	103	He	6068832	0.85	6761953	89.75	70	125	
In	115	He	1383750	0.38	1642329	84.26	70	125	
Lu	175	He	3527589	2.82	3701453	95.30	70	125	

Sample Report

Sample Table

Sample Name	K1508427-001L
Data File Name	017SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:48:52-07:00
Sample Type	Sample
Dilution	1
Comment	25
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.189	5.29	879	0.02	
V	51	He	22.721	1.79	88169	0.03	
Cr	52	He	5.972	2.92	31344	0.02	
Cr	53	He	5.807	4.35	3769	0.15	
Mn	55	He	273.559	1.92	562466	0.05	
Co	59	He	5.138	3.34	50411	0.01	
Ni	60	He	5.269	1.81	14854	0.04	
Ni	62	He	5.208	3.34	2330	0.22	
Cu	63	He	9.016	0.71	71128	0.01	
Cu	65	He	9.118	0.39	35803	0.03	
Zn	66	He	19.411	1.39	18480	0.11	
As	75	He	6.767	6.37	3722	0.18	
Se	77	H2	0.440	17.12	1360	0.03	
Se	78	H2	0.264	6.55	288	0.09	
Mo	95	He	0.148	7.81	553	0.03	
Mo	97	He	0.154	14.57	390	0.04	
Mo	98	He	0.158	6.62	1032	0.02	
Ag	107	He	0.011	35.51	170	0.01	
Ag	109	He	0.014	17.44	219	0.01	
Cd	111	He	0.059	14.32	91	0.07	
Cd	114	He	0.088	1.05	340	0.03	
Sb	121	He	0.176	2.94	683	0.03	
Sb	123	He	0.177	10.83	550	0.03	
Ba	135	He	81.738	1.03	40819	0.20	
Ba	137	He	81.972	1.67	75374	0.11	
Tl	203	He	0.451	0.93	4198	0.01	
Tl	205	He	0.472	1.93	10658	0.00	
[Pb]	206	He	3.181	2.78	23419	0.01	
[Pb]	207	He	3.001	2.88	19322	0.02	
Pb	208	He	3.074	2.19	90457	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11875777	6.66	12521331	94.84	70	125	
Ge	72	He	175048	2.27	207726	84.27	70	125	
Ge	72	H2	2079402	1.88	2177262	95.51	70	125	
Rh	103	He	6224514	1.28	6761953	92.05	70	125	
In	115	He	1375754	0.40	1642329	83.77	70	125	
Lu	175	He	3566719	2.01	3701453	96.36	70	125	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1508427-001A
Data File Name	018_PDS.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:53:37-07:00
Sample Type	PDS
Dilution	1
Comment	5 +50ppb +10ppb Ag
QC Ref File Name	015_ARF.d
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	51.669	0.962	228535	1.06	50	101	
V	51	He	167.695	1.331	644449	0.42	50	94	
Cr	52	He	81.193	0.953	414539	1.09	50	101	
Cr	53	He	82.658	0.256	52007	1.07	50	103	
Mn	55	He	1504.251	2.530	3064921	1.59	50	7	Flag *
Co	59	He	78.227	0.982	759973	0.44	50	102	
Ni	60	He	79.693	0.506	219655	0.43	50	103	
Ni	62	He	78.964	0.434	34514	0.94	50	103	
Cu	63	He	98.294	1.330	766658	0.77	50	104	
Cu	65	He	98.195	0.691	381219	0.38	50	104	
Zn	66	He	149.151	1.081	139422	0.14	50	102	
As	75	He	84.143	1.598	45769	0.68	50	100	
Se	77	H2	54.606	2.508	18412	2.48	50	104	
Se	78	H2	53.312	1.543	52910	0.63	50	104	
Mo	95	He	50.277	1.782	178943	0.78	50	99	
Mo	97	He	50.231	0.707	119184	0.90	50	99	
Mo	98	He	50.437	1.198	309383	0.63	50	99	
Ag	107	He	10.126	1.690	131268	0.70	10	101	
Ag	109	He	10.231	1.150	130134	1.37	10	102	
Cd	111	He	50.044	0.660	71727	0.95	50	99	
Cd	114	He	50.270	1.871	183821	0.29	50	100	
Sb	121	He	53.786	0.452	165471	0.27	50	106	
Sb	123	He	54.185	0.581	134456	0.72	50	107	
Ba	135	He	455.024	1.062	225570	1.00	50	89	
Ba	137	He	461.932	1.014	421622	1.07	50	96	*
Tl	203	He	56.562	0.687	514837	0.44	50	108	
Tl	205	He	56.374	1.329	1241234	0.53	50	108	
[Pb]	206	He	67.969	2.093	494133	1.01	50	104	
[Pb]	207	He	67.036	1.939	425952	0.95	50	104	
Pb	208	He	67.527	1.954	1960873	1.02	50	104	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11637801	0.14	12521331	92.94	70	125	
Ge	72	He	173481	0.94	207726	83.51	70	125	
Ge	72	H2	2056852	1.36	2177262	94.47	70	125	
Rh	103	He	6110202	1.59	6761953	90.36	70	125	
In	115	He	1365839	0.23	1642329	83.16	70	125	
Lu	175	He	3547206	1.11	3701453	95.83	70	125	

*NA
MMR
8/21/15

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1508427-001S
Data File Name	019_Spk.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T18:58:21-07:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	015_ARF.d
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	20.517	0.231	89014	0.93	20	98	
V	51	He	300.087	1.608	1138395	1.16	200	90	
Cr	52	He	107.628	1.181	542244	0.81	80	96	
Cr	53	He	107.559	1.428	66775	0.85	80	96	
Mn	55	He	1428.895	0.940	2874389	0.45	200	-36	Flag
Co	59	He	232.611	0.953	2230748	0.59	200	103	
Ni	60	He	223.842	1.148	608673	0.92	200	98	
Ni	62	He	226.522	0.929	97668	0.34	200	99	
Cu	63	He	144.920	1.072	1115766	0.57	100	99	
Cu	65	He	144.418	0.951	553440	0.68	100	98	
Zn	66	He	292.756	1.215	269973	0.63	200	97	
As	75	He	230.615	0.704	123822	0.55	200	98	
Se	77	H2	200.347	1.675	63939	0.33	200	99	
Se	78	H2	197.284	2.038	194552	0.90	200	98	
Mo	95	He	187.690	0.710	657604	0.54	200	93	
Mo	97	He	187.631	0.897	438193	0.58	200	93	
Mo	98	He	189.481	0.592	1144078	0.88	200	94	
Ag	107	He	19.313	0.182	246461	1.26	20	96	
Ag	109	He	19.533	1.191	244550	1.29	20	97	
Cd	111	He	19.518	0.323	27542	1.38	20	96	
Cd	114	He	19.315	0.591	69545	1.30	20	94	
Sb	121	He	89.930	1.297	271523	0.37	200	45	Flag
Sb	123	He	90.447	1.019	220271	0.79	200	45	Flag
Ba	135	He	790.031	0.739	384500	0.76	400	95	
Ba	137	He	789.149	0.574	707151	0.98	400	94	
Tl	203	He	227.858	2.540	2023902	1.23	200	113	
Tl	205	He	222.008	3.419	4769158	0.93	200	110	
[Pb]	206	He	212.935	3.179	1510349	0.93	200	98	
[Pb]	207	He	221.448	2.444	1372969	0.51	200	103	
Pb	208	He	223.191	2.628	6323609	0.36	200	104	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11413799	1.12	12521331	91.15	70	125	
Ge	72	He	171255	0.59	207726	82.44	70	125	
Ge	72	H2	2044550	1.38	2177262	93.90	70	125	
Rh	103	He	6014660	1.22	6761953	88.95	70	125	
In	115	He	1341026	1.43	1642329	81.65	70	125	
Lu	175	He	3462954	2.47	3701453	93.56	70	125	

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1508427-001SD
Data File Name	020_Spk.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:03:01-07:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	015_ARF.d
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	20.440	2.352	89106	0.42	20	97	
V	51	He	309.169	1.521	1176394	1.63	200	94	
Cr	52	He	109.974	1.055	555711	1.06	80	99	
Cr	53	He	109.044	1.263	67900	1.39	80	97	
Mn	55	He	1490.659	1.577	3007775	2.04	200	-5	Flag
Co	59	He	238.134	0.742	2290515	0.52	200	106	
Ni	60	He	229.600	0.136	626195	0.48	200	101	
Ni	62	He	227.212	0.827	98258	0.49	200	100	
Cu	63	He	148.455	0.502	1146392	0.22	100	102	
Cu	65	He	148.768	0.136	571815	0.37	100	103	
Zn	66	He	302.369	0.335	279669	0.28	200	102	
As	75	He	237.761	0.727	128036	0.25	200	102	
Se	77	H2	201.500	0.987	65198	0.93	200	99	
Se	78	H2	198.094	1.905	198063	0.81	200	98	
Mo	95	He	193.653	1.714	672866	1.12	200	96	
Mo	97	He	193.175	2.099	447371	0.88	200	96	
Mo	98	He	194.192	1.558	1162745	0.10	200	97	
Ag	107	He	19.973	1.798	252762	1.36	20	100	
Ag	109	He	19.985	1.123	248141	0.93	20	100	
Cd	111	He	20.235	1.340	28314	0.35	20	99	
Cd	114	He	19.967	1.273	71294	0.99	20	97	
Sb	121	He	91.578	0.697	276156	0.95	200	45	Flag
Sb	123	He	92.377	0.651	224683	0.97	200	46	Flag
Ba	135	He	826.654	0.465	401808	0.79	400	104	
Ba	137	He	829.142	0.622	742014	0.72	400	104	
Tl	203	He	227.119	3.666	2036641	3.78	200	112	
Tl	205	He	226.476	1.803	4912133	0.95	200	112	
[Pb]	206	He	230.496	0.732	1650748	0.87	200	107	
[Pb]	207	He	223.683	1.541	1399988	0.26	200	104	
Pb	208	He	230.876	0.551	6604229	0.81	200	108	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11472610	2.36	12521331	91.62	70	125	
Ge	72	He	171763	0.48	207726	82.69	70	125	
Ge	72	H2	2072967	1.58	2177262	95.21	70	125	
Rh	103	He	5965291	1.64	6761953	88.22	70	125	
In	115	He	1339204	0.33	1642329	81.54	70	125	
Lu	175	He	3494903	1.27	3701453	94.42	70	125	

Laboratory Control Sample (LCSS) Report

Sample Table

Sample Name	KQ1508639-01
Data File Name	021_QCS.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:08:01-07:00
Sample Type	QCS
Dilution	1
Comment	20
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	40.538	1.330	167673	1.20	36.15	112.1	
V	51	He	52.990	1.829	197532	0.58	48.8	108.6	
Cr	52	He	78.459	0.496	388508	1.16	68	115.4	
Cr	53	He	78.867	0.589	48128	1.62	68	116.0	
Mn	55	He	174.103	0.986	344241	2.34	161.5	107.8	
Co	59	He	73.299	1.883	690752	3.20	64	114.5	
Ni	60	He	87.198	2.613	233125	3.93	76.5	114.0	
Ni	62	He	85.716	3.603	36343	5.01	76.5	112.0	
Cu	63	He	57.277	1.709	433430	3.10	51	112.3	
Cu	65	He	56.643	1.501	213339	2.86	51	111.1	
Zn	66	He	87.825	0.842	79703	2.00	80.5	109.1	
As	75	He	55.840	0.564	29462	0.99	49.8	112.1	
Se	77	H2	85.354	0.977	28110	1.15	75	113.8	
Se	78	H2	84.386	2.282	83758	0.73	75	112.5	
Mo	95	He	70.255	0.836	247093	0.58	66.5	105.6	
Mo	97	He	69.607	2.320	163166	1.02	66.5	104.7	
Mo	98	He	70.189	0.841	425421	0.54	66.5	105.5	
Ag	107	He	22.441	0.115	287467	1.49	20.2	111.1	
Ag	109	He	22.299	0.956	280232	1.00	20.2	110.4	
Cd	111	He	97.490	1.980	138051	0.59	91	107.1	
Cd	114	He	97.238	2.466	351324	1.12	91	106.9	
Sb	121	He	38.015	1.702	115301	0.77	44.1	86.2	
Sb	123	He	38.330	1.619	93765	0.41	44.1	86.9	
Ba	135	He	173.594	1.273	84824	1.61	155	112.0	
Ba	137	He	175.988	1.661	158325	1.44	155	113.5	
Tl	203	He	104.765	1.271	940687	1.29	87	120.4	
Tl	205	He	113.208	2.393	2459234	3.14	87	130.1	
[Pb]	206	He	66.697	1.638	478418	1.91	57.5	116.0	
[Pb]	207	He	65.217	1.725	408869	2.10	57.5	113.4	
Pb	208	He	66.319	1.647	1900039	1.81	57.5	115.3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10884465	2.12	12521331	86.93	70	125	
Ge	72	He	168244	1.38	207726	80.99	70	125	
Ge	72	H2	2057632	1.60	2177262	94.51	70	125	
Rh	103	He	6037581	1.37	6761953	89.29	70	125	
In	115	He	1346284	1.56	1642329	81.97	70	125	
Lu	175	He	3499504	1.50	3701453	94.54	70	125	

Sample Report

Sample Table

Sample Name	K1508427-002
Data File Name	022SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:12:44-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.269	0.75	5634	0.02	
V	51	He	152.538	2.80	570287	0.03	
Cr	52	He	42.994	2.48	213832	0.02	
Cr	53	He	43.022	3.46	26371	0.16	
Mn	55	He	1432.133	4.09	2838586	0.05	
Co	59	He	28.955	3.15	273678	0.01	
Ni	60	He	26.819	2.52	72051	0.04	
Ni	62	He	27.068	1.62	11534	0.23	
Cu	63	He	40.631	2.66	308404	0.01	
Cu	65	He	40.358	1.76	152491	0.03	
Zn	66	He	102.686	0.68	93457	0.11	
As	75	He	15.042	2.05	7970	0.19	
Se	77	H2	1.868	10.83	1778	0.11	
Se	78	H2	0.427	1.13	443	0.10	
Mo	95	He	0.777	3.92	2760	0.03	
Mo	97	He	0.754	4.30	1791	0.04	
Mo	98	He	0.809	1.86	4967	0.02	
Ag	107	He	0.070	5.64	927	0.01	
Ag	109	He	0.069	3.86	907	0.01	
Cd	111	He	0.227	3.11	327	0.07	
Cd	114	He	0.342	3.38	1252	0.03	
Sb	121	He	1.069	1.37	3383	0.03	
Sb	123	He	1.098	0.64	2797	0.04	
Ba	135	He	363.176	0.27	177954	0.20	
Ba	137	He	366.816	0.46	330924	0.11	
Tl	203	He	0.709	2.90	6513	0.01	
Tl	205	He	0.752	2.95	16752	0.00	
[Pb]	206	He	17.050	0.92	123978	0.01	
[Pb]	207	He	16.069	0.25	102132	0.02	
Pb	208	He	16.524	0.45	479951	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11624947	0.93	12521331	92.84	70	125	
Ge	72	He	168800	1.43	207726	81.26	70	125	
Ge	72	H2	2036980	1.37	2177262	93.56	70	125	
Rh	103	He	6062993	0.46	6761953	89.66	70	125	
In	115	He	1350008	0.47	1642329	82.20	70	125	
Lu	175	He	3543584	1.18	3701453	95.73	70	125	

Sample Report

Sample Table

Sample Name	K1508427-003
Data File Name	023SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:17:28-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.147	2.75	5068	0.02	
V	51	He	157.916	0.60	591401	0.03	
Cr	52	He	44.212	0.87	220242	0.02	
Cr	53	He	44.340	2.57	27224	0.16	
Mn	55	He	1554.277	0.61	3086374	0.05	
Co	59	He	37.672	0.23	356684	0.01	
Ni	60	He	39.462	1.32	106110	0.04	
Ni	62	He	38.261	1.27	16313	0.23	
Cu	63	He	70.190	0.59	533566	0.01	
Cu	65	He	69.637	0.04	263484	0.03	
Zn	66	He	112.473	1.06	102505	0.11	
As	75	He	54.560	1.30	28924	0.19	
Se	77	H2	3.141	7.24	2181	0.14	
Se	78	H2	1.897	0.58	1892	0.10	
Mo	95	He	0.859	3.91	3021	0.03	
Mo	97	He	0.814	2.66	1915	0.04	
Mo	98	He	0.875	0.99	5318	0.02	
Ag	107	He	0.071	2.27	934	0.01	
Ag	109	He	0.070	14.53	907	0.01	
Cd	111	He	0.376	3.41	534	0.07	
Cd	114	He	0.493	2.21	1784	0.03	
Sb	121	He	1.148	5.07	3652	0.03	
Sb	123	He	1.199	1.26	3071	0.04	
Ba	135	He	444.138	0.95	219455	0.20	
Ba	137	He	445.670	1.15	405444	0.11	
Tl	203	He	2.849	1.00	25920	0.01	
Tl	205	He	2.799	1.51	61642	0.00	
[Pb]	206	He	20.366	0.62	147778	0.01	
[Pb]	207	He	19.266	0.92	122187	0.02	
Pb	208	He	19.836	0.52	574918	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11572650	0.74	12521331	92.42	70	125	
Ge	72	He	169051	1.00	207726	81.38	70	125	
Ge	72	H2	2042770	1.88	2177262	93.82	70	125	
Rh	103	He	6005516	1.18	6761953	88.81	70	125	
In	115	He	1361499	1.44	1642329	82.90	70	125	
Lu	175	He	3536855	0.71	3701453	95.55	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	024_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:22:11-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.850	1.150	107166	1.28	25	103	
V	51	He	24.714	1.057	93499	1.06	25	99	
Cr	52	He	25.121	1.802	126580	1.14	25	100	
Cr	53	He	25.255	2.534	15689	1.97	25	101	
Mn	55	He	23.837	3.442	47924	3.09	25	95	
Co	59	He	25.424	1.887	242985	1.25	25	102	
Ni	60	He	25.642	1.156	69668	1.69	25	103	
Ni	62	He	25.752	1.169	11096	1.67	25	103	
Cu	63	He	26.754	1.123	205403	1.37	25	107	
Cu	65	He	26.433	1.515	101001	0.90	25	106	
Zn	66	He	26.004	3.382	24065	3.23	25	104	
As	75	He	25.941	0.821	13889	1.27	25	104	
Se	77	H2	25.116	1.320	9226	1.35	25	100	
Se	78	H2	25.030	0.640	25142	0.97	25	100	
Mo	95	He	24.026	1.191	88131	1.33	25	96	
Mo	97	He	24.134	1.722	59014	1.75	25	97	
Mo	98	He	24.447	1.136	154544	0.91	25	98	
Ag	107	He	24.564	1.664	328090	1.29	25	98	
Ag	109	He	24.560	1.880	321844	1.47	25	98	
Cd	111	He	23.957	1.417	35382	1.08	25	96	
Cd	114	He	23.966	1.129	90316	0.96	25	96	
Sb	121	He	26.308	0.463	80643	0.49	25	105	
Sb	123	He	26.425	1.004	65331	0.29	25	106	
Ba	135	He	26.412	0.534	13041	0.99	25	106	
Ba	137	He	26.263	1.522	23880	1.15	25	105	
Tl	203	He	26.369	0.890	236098	0.85	25	105	
Tl	205	He	26.246	0.637	568525	1.44	25	105	
[Pb]	206	He	26.597	1.017	190293	0.82	25	106	
[Pb]	207	He	26.471	0.852	165530	0.44	25	106	
Pb	208	He	26.594	0.873	759998	0.27	25	106	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10908951	2.40	12521331	87.12	70	125	
Ge	72	He	170639	0.66	207726	82.15	70	125	
Ge	72	H2	2080432	0.38	2177262	95.55	70	125	
Rh	103	He	6295558	0.42	6761953	93.10	70	125	
In	115	He	1359747	0.84	1642329	82.79	70	125	
Lu	175	He	3488669	0.86	3701453	94.25	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	025_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:26:56-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.643	2.150	106510	1.03	25	103	
V	51	He	24.745	1.449	93930	0.71	25	99	
Cr	52	He	24.977	1.650	126287	1.12	25	100	
Cr	53	He	25.165	1.628	15687	0.72	25	101	
Mn	55	He	23.886	1.277	48189	1.25	25	96	
Co	59	He	25.237	1.774	242019	1.14	25	101	
Ni	60	He	25.267	1.081	68878	0.64	25	101	
Ni	62	He	25.651	4.453	11088	4.09	25	103	
Cu	63	He	26.377	1.228	203186	0.59	25	106	
Cu	65	He	26.326	0.368	100944	0.91	25	105	
Zn	66	He	25.367	1.375	23558	0.56	25	101	
As	75	He	25.000	0.873	13431	1.54	25	100	
Se	77	H2	25.007	1.753	8995	1.23	25	100	
Se	78	H2	25.759	3.617	25314	0.95	25	103	
Mo	95	He	24.243	0.538	87663	1.19	25	97	
Mo	97	He	24.398	2.431	58804	1.91	25	98	
Mo	98	He	24.452	0.746	152392	1.88	25	98	
Ag	107	He	24.778	0.654	326282	1.87	25	99	
Ag	109	He	24.937	0.218	322156	1.13	25	100	
Cd	111	He	24.089	0.887	35071	1.01	25	96	
Cd	114	He	24.215	0.774	89961	1.22	25	97	
Sb	121	He	26.314	0.593	80431	0.67	25	105	
Sb	123	He	26.428	1.445	65149	0.44	25	106	
Ba	135	He	26.404	3.892	12996	2.88	25	106	
Ba	137	He	26.555	1.591	24076	0.84	25	106	
Tl	203	He	25.995	1.182	235167	0.55	25	104	
Tl	205	He	25.952	1.801	567949	1.15	25	104	
[Pb]	206	He	25.920	0.966	187402	1.28	25	104	
[Pb]	207	He	25.996	1.288	164259	1.12	25	104	
Pb	208	He	26.118	1.032	754210	0.92	25	104	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10930745	2.45	12521331	87.30	70	125	
Ge	72	He	171220	0.91	207726	82.43	70	125	
Ge	72	H2	2036821	2.71	2177262	93.55	70	125	
Rh	103	He	6206216	1.22	6761953	91.78	70	125	
In	115	He	1355870	1.04	1642329	82.56	70	125	
Lu	175	He	3525156	1.14	3701453	95.24	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	026_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:31:40-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.704	2.050	105363	0.35	25	103	
V	51	He	24.844	0.695	92503	0.97	25	99	
Cr	52	He	25.388	0.761	125900	0.85	25	102	
Cr	53	He	25.329	0.983	15487	0.54	25	101	
Mn	55	He	24.138	1.245	47761	1.12	25	97	
Co	59	He	25.537	1.452	240208	1.02	25	102	
Ni	60	He	25.928	0.437	69322	0.26	25	104	
Ni	62	He	25.505	1.036	10816	1.50	25	102	
Cu	63	He	26.508	1.157	200291	0.98	25	106	
Cu	65	He	26.592	0.580	100004	0.46	25	106	
Zn	66	He	25.764	1.819	23466	1.34	25	103	
As	75	He	26.045	1.112	13723	1.25	25	104	
Se	77	H2	24.882	2.500	9056	0.73	25	100	
Se	78	H2	25.063	2.087	24914	0.62	25	100	
Mo	95	He	24.283	0.597	86817	0.57	25	97	
Mo	97	He	24.148	1.587	57553	1.88	25	97	
Mo	98	He	24.593	0.506	151537	0.80	25	98	
Ag	107	He	24.876	0.333	323845	0.10	25	100	
Ag	109	He	24.976	0.975	319017	1.20	25	100	
Cd	111	He	24.128	0.489	34733	0.27	25	97	
Cd	114	He	24.267	0.951	89137	1.00	25	97	
Sb	121	He	26.386	1.509	79587	1.27	25	106	
Sb	123	He	26.499	0.337	64469	0.75	25	106	
Ba	135	He	26.345	2.441	12800	2.31	25	105	
Ba	137	He	26.954	1.230	24116	1.16	25	108	
Tl	203	He	26.469	1.120	234207	1.15	25	106	
Tl	205	He	26.411	1.767	565288	0.17	25	106	
[Pb]	206	He	26.464	1.422	187119	0.60	25	106	
[Pb]	207	He	26.113	1.881	161361	0.53	25	104	
Pb	208	He	26.544	1.898	749614	0.17	25	106	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10787485	2.11	12521331	86.15	70	125	
Ge	72	He	167937	0.48	207726	80.85	70	125	
Ge	72	H2	2059260	1.49	2177262	94.58	70	125	
Rh	103	He	6136067	0.30	6761953	90.74	70	125	
In	115	He	1337986	0.43	1642329	81.47	70	125	
Lu	175	He	3448033	1.82	3701453	93.15	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	027_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:36:26-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.008	46.8	55	24.5	0.04	
V	51	He	-0.001	-569.1	80	37.0	0.4	
Cr	52	He	0.011	74.2	667	6.3	0.4	
Cr	53	He	-0.013	-210.8	79	21.3	0.4	
Mn	55	He	0.026	130.0	199	33.1	0.1	
Co	59	He	0.004	29.3	103	11.6	0.04	
Ni	60	He	-0.022	-16.9	150	6.7	0.4	
Ni	62	He	-0.033	-13.8	21	9.1	0.4	
Cu	63	He	0.002	131.4	203	12.4	0.2	
Cu	65	He	0.006	40.6	110	8.0	0.2	
Zn	66	He	-0.013	-47.1	172	3.0	1	
As	75	He	-0.005	-57.4	8	18.3	1	
Se	77	H2	0.001	17502.5	1204	2.4	20	
Se	78	H2	0.001	662.8	25	39.8	2	
Mo	95	He	0.008	16.7	46	11.2	0.1	
Mo	97	He	0.014	46.6	50	30.6	0.1	
Mo	98	He	0.007	60.6	87	29.0	0.1	
Ag	107	He	0.002	44.4	61	22.7	0.04	
Ag	109	He	0.001	55.1	52	18.4	0.04	
Cd	111	He	0.005	32.6	11	20.8	0.04	
Cd	114	He	0.005	22.3	28	13.7	0.04	
Sb	121	He	-0.003	-108.4	127	6.6	0.2	
Sb	123	He	0.009	78.3	128	12.9	0.1	
Ba	135	He	0.005	394.4	9	114.5	0.1	
Ba	137	He	0.009	99.8	26	31.5	0.1	
Tl	203	He	0.033	19.5	357	17.2	0.04	
Tl	205	He	0.025	20.1	737	14.5	0.04	
[Pb]	206	He	0.003	34.5	196	5.2	0.1	
[Pb]	207	He	0.006	33.2	190	7.6	0.1	
Pb	208	He	0.002	134.4	774	11.6	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10705154	1.78	12521331	85.50	70	125	
Ge	72	He	167509	0.23	207726	80.64	70	125	
Ge	72	H2	2052657	2.13	2177262	94.28	70	125	
Rh	103	He	6116191	0.46	6761953	90.45	70	125	
In	115	He	1347487	0.40	1642329	82.05	70	125	
Lu	175	He	3437344	1.13	3701453	92.86	70	125	

Sample Report

Sample Table

Sample Name	K1508427-004
Data File Name	028SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:41:11-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.982	2.82	4369	0.02	
V	51	He	149.212	0.97	555789	0.03	
Cr	52	He	40.132	0.53	198899	0.02	
Cr	53	He	39.929	2.16	24392	0.16	
Mn	55	He	1309.321	2.37	2585807	0.05	
Co	59	He	30.934	1.31	291309	0.01	
Ni	60	He	31.253	1.33	83614	0.04	
Ni	62	He	30.741	0.41	13044	0.24	
Cu	63	He	47.452	0.80	358816	0.01	
Cu	65	He	47.155	0.15	177479	0.03	
Zn	66	He	97.758	0.17	88634	0.11	
As	75	He	41.106	1.67	21678	0.19	
Se	77	H2	1.870	9.61	1813	0.10	
Se	78	H2	0.623	2.97	647	0.10	
Mo	95	He	0.712	8.27	2507	0.03	
Mo	97	He	0.722	5.89	1700	0.04	
Mo	98	He	0.724	3.73	4408	0.02	
Ag	107	He	0.063	4.27	830	0.01	
Ag	109	He	0.060	6.85	783	0.01	
Cd	111	He	0.387	3.25	549	0.07	
Cd	114	He	0.485	1.00	1755	0.03	
Sb	121	He	0.994	4.42	3132	0.03	
Sb	123	He	0.955	7.38	2427	0.04	
Ba	135	He	374.689	1.09	182216	0.21	
Ba	137	He	379.985	1.39	340219	0.11	
Tl	203	He	1.984	1.06	18174	0.01	
Tl	205	He	2.013	1.03	44656	0.00	
[Pb]	206	He	15.799	0.55	115357	0.01	
[Pb]	207	He	15.061	0.62	96120	0.02	
Pb	208	He	15.451	0.43	450642	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11637913	1.15	12521331	92.94	70	125	
Ge	72	He	168134	0.35	207726	80.94	70	125	
Ge	72	H2	2077143	2.05	2177262	95.40	70	125	
Rh	103	He	6007184	1.23	6761953	88.84	70	125	
In	115	He	1339948	1.42	1642329	81.59	70	125	
Lu	175	He	3557905	0.23	3701453	96.12	70	125	

Sample Report

Sample Table

Sample Name	K1508427-005
Data File Name	029SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:45:59-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.055	2.00	4612	0.02	
V	51	He	143.469	1.58	525457	0.03	
Cr	52	He	38.332	2.09	186819	0.02	
Cr	53	He	37.724	1.48	22665	0.17	
Mn	55	He	1184.248	2.70	2299676	0.05	
Co	59	He	25.204	0.96	233403	0.01	
Ni	60	He	25.868	1.71	68092	0.04	
Ni	62	He	25.718	5.36	10736	0.24	
Cu	63	He	40.675	0.94	302452	0.01	
Cu	65	He	40.496	1.29	149881	0.03	
Zn	66	He	92.089	0.37	82111	0.11	
As	75	He	29.813	1.00	15462	0.19	
Se	77	H2	1.740	8.18	1739	0.10	
Se	78	H2	0.529	5.33	543	0.10	
Mo	95	He	0.634	1.88	2220	0.03	
Mo	97	He	0.598	2.54	1402	0.04	
Mo	98	He	0.631	2.85	3824	0.02	
Ag	107	He	0.071	6.86	926	0.01	
Ag	109	He	0.066	7.67	847	0.01	
Cd	111	He	0.238	5.49	337	0.07	
Cd	114	He	0.348	1.63	1253	0.03	
Sb	121	He	1.055	2.00	3304	0.03	
Sb	123	He	1.066	2.56	2689	0.04	
Ba	135	He	356.270	1.12	172636	0.21	
Ba	137	He	360.181	1.20	321340	0.11	
Tl	203	He	1.187	0.97	10658	0.01	
Tl	205	He	1.190	3.21	25878	0.00	
[Pb]	206	He	15.231	2.06	108692	0.01	
[Pb]	207	He	14.203	1.00	88605	0.02	
Pb	208	He	14.734	2.06	419999	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11440850	1.44	12521331	91.37	70	125	
Ge	72	He	165328	0.64	207726	79.59	70	125	
Ge	72	H2	2038132	0.50	2177262	93.61	70	125	
Rh	103	He	5964688	0.63	6761953	88.21	70	125	
In	115	He	1335063	0.30	1642329	81.29	70	125	
Lu	175	He	3477854	1.65	3701453	93.96	70	125	

Sample Report

Sample Table

Sample Name	K1508427-006
Data File Name	030SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:50:42-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.346	2.23	6082	0.02	
V	51	He	151.511	1.34	555289	0.03	
Cr	52	He	34.074	1.79	166239	0.02	
Cr	53	He	34.735	1.09	20890	0.17	
Mn	55	He	2630.598	1.03	5112230	0.05	
Co	59	He	42.276	0.90	391714	0.01	
Ni	60	He	38.472	0.32	101237	0.04	
Ni	62	He	37.728	1.80	15746	0.24	
Cu	63	He	54.390	0.19	404701	0.01	
Cu	65	He	53.075	0.11	196562	0.03	
Zn	66	He	162.282	0.46	144663	0.11	
As	75	He	8.063	0.67	4193	0.19	
Se	77	H2	2.100	9.10	1813	0.12	
Se	78	H2	0.305	9.16	316	0.10	
Mo	95	He	0.773	2.35	2664	0.03	
Mo	97	He	0.819	1.86	1887	0.04	
Mo	98	He	0.844	2.67	5022	0.02	
Ag	107	He	0.073	9.01	944	0.01	
Ag	109	He	0.067	6.13	852	0.01	
Cd	111	He	0.512	2.98	710	0.07	
Cd	114	He	0.609	1.09	2153	0.03	
Sb	121	He	0.545	4.69	1761	0.03	
Sb	123	He	0.535	7.64	1391	0.04	
Ba	135	He	497.574	0.80	239617	0.21	
Ba	137	He	501.438	1.29	444534	0.11	
Tl	203	He	0.310	1.14	2841	0.01	
Tl	205	He	0.312	3.87	6976	0.00	
[Pb]	206	He	18.861	1.99	135126	0.01	
[Pb]	207	He	17.807	0.85	111523	0.02	
Pb	208	He	18.251	1.20	522380	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11840881	2.32	12521331	94.57	70	125	
Ge	72	He	165450	1.56	207726	79.65	70	125	
Ge	72	H2	1994931	1.73	2177262	91.63	70	125	
Rh	103	He	5879687	1.04	6761953	86.95	70	125	
In	115	He	1326718	1.87	1642329	80.78	70	125	
Lu	175	He	3492670	1.76	3701453	94.36	70	125	

Sample Report

Sample Table

Sample Name	K1508427-007
Data File Name	031SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T19:55:25-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.421	1.29	6247	0.02	
V	51	He	136.384	2.44	489212	0.03	
Cr	52	He	34.073	2.05	162717	0.02	
Cr	53	He	34.723	0.25	20447	0.17	
Mn	55	He	1809.384	3.71	3440437	0.05	
Co	59	He	33.504	1.23	303898	0.01	
Ni	60	He	37.404	1.15	96351	0.04	
Ni	62	He	37.359	1.30	15267	0.24	
Cu	63	He	46.671	0.73	339956	0.01	
Cu	65	He	45.362	1.59	164460	0.03	
Zn	66	He	104.687	2.10	91395	0.11	
As	75	He	8.302	2.13	4225	0.20	
Se	77	H2	1.790	3.33	1715	0.10	
Se	78	H2	0.287	14.59	298	0.10	
Mo	95	He	0.548	7.44	1892	0.03	
Mo	97	He	0.520	8.56	1203	0.04	
Mo	98	He	0.557	3.74	3333	0.02	
Ag	107	He	0.077	2.63	984	0.01	
Ag	109	He	0.071	10.87	896	0.01	
Cd	111	He	0.192	7.05	269	0.07	
Cd	114	He	0.315	4.37	1119	0.03	
Sb	121	He	0.448	4.77	1464	0.03	
Sb	123	He	0.430	6.73	1135	0.04	
Ba	135	He	317.410	1.36	152175	0.21	
Ba	137	He	318.322	0.81	280986	0.11	
Tl	203	He	0.330	3.08	3053	0.01	
Tl	205	He	0.317	2.99	7137	0.00	
[Pb]	206	He	13.333	1.84	96496	0.01	
[Pb]	207	He	12.734	2.43	80545	0.02	
Pb	208	He	13.003	2.05	375896	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11518377	1.72	12521331	91.99	70	125	
Ge	72	He	161977	2.63	207726	77.98	70	125	
Ge	72	H2	1991418	0.85	2177262	91.46	70	125	
Rh	103	He	5880823	1.87	6761953	86.97	70	125	
In	115	He	1320960	1.11	1642329	80.43	70	125	
Lu	175	He	3526946	3.19	3701453	95.29	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	032_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:00:10-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.644	1.072	104299	1.35	25	103	
V	51	He	25.038	2.806	91801	0.76	25	100	
Cr	52	He	25.298	3.728	123532	1.79	25	101	
Cr	53	He	24.670	4.889	14853	3.16	25	99	
Mn	55	He	24.263	2.425	47280	1.09	25	97	
Co	59	He	25.720	2.883	238247	0.91	25	103	
Ni	60	He	26.105	2.736	68731	0.68	25	104	
Ni	62	He	26.328	1.616	10995	0.48	25	105	
Cu	63	He	26.759	2.269	199119	0.80	25	107	
Cu	65	He	26.733	1.741	99019	0.73	25	107	
Zn	66	He	25.810	0.976	23158	1.83	25	103	
As	75	He	26.031	1.756	13508	0.48	25	104	
Se	77	H2	25.250	4.785	9150	1.94	25	101	
Se	78	H2	25.087	1.373	24889	1.12	25	100	
Mo	95	He	24.061	1.134	86898	0.35	25	96	
Mo	97	He	24.182	2.203	58216	1.52	25	97	
Mo	98	He	24.205	1.569	150653	0.32	25	97	
Ag	107	He	24.573	1.293	323162	0.11	25	98	
Ag	109	He	24.692	1.479	318587	0.37	25	99	
Cd	111	He	23.722	1.581	34495	0.64	25	95	
Cd	114	He	23.778	1.801	88225	0.65	25	95	
Sb	121	He	26.519	1.166	79382	0.62	25	106	
Sb	123	He	26.448	1.377	63853	0.80	25	106	
Ba	135	He	26.367	1.439	12713	0.86	25	105	
Ba	137	He	26.604	1.614	23622	1.03	25	106	
Tl	203	He	26.102	1.247	231844	1.47	25	104	
Tl	205	He	26.418	0.361	567659	0.76	25	106	
[Pb]	206	He	26.509	1.385	188149	1.00	25	106	
[Pb]	207	He	26.699	0.787	165628	0.60	25	107	
Pb	208	He	26.603	0.965	754201	0.56	25	106	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10700094	0.35	12521331	85.45	70	125	
Ge	72	He	165437	2.05	207726	79.64	70	125	
Ge	72	H2	2055275	2.32	2177262	94.40	70	125	
Rh	103	He	6199132	1.40	6761953	91.68	70	125	
In	115	He	1327853	0.58	1642329	80.85	70	125	
Lu	175	He	3460785	0.40	3701453	93.50	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	033_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:04:54-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.004	31.2	43	14.0	0.04	
V	51	He	0.002	99.8	92	9.1	0.4	
Cr	52	He	0.021	49.3	709	5.5	0.4	
Cr	53	He	-0.015	-264.5	78	31.6	0.4	
Mn	55	He	0.089	10.6	322	8.4	0.1	
Co	59	He	0.004	114.4	96	40.1	0.04	
Ni	60	He	-0.032	-37.9	123	25.8	0.4	
Ni	62	He	-0.033	-57.4	21	39.7	0.4	
Cu	63	He	0.008	82.8	241	17.3	0.2	
Cu	65	He	0.012	22.4	132	5.2	0.2	
Zn	66	He	0.015	166.2	197	13.2	1	
As	75	He	-0.006	-131.2	8	54.3	1	
Se	77	H2	-0.029	-120.8	1183	2.4	20	
Se	78	H2	0.004	213.1	27	28.6	2	
Mo	95	He	0.006	62.7	38	35.7	0.1	
Mo	97	He	0.003	94.3	23	24.7	0.1	
Mo	98	He	0.005	93.5	74	36.2	0.1	
Ag	107	He	0.002	120.4	51	49.4	0.04	
Ag	109	He	0.002	33.7	54	12.7	0.04	
Cd	111	He	0.003	116.4	8	59.2	0.04	
Cd	114	He	0.002	49.3	19	21.3	0.04	
Sb	121	He	-0.006	-31.7	117	6.2	0.2	
Sb	123	He	-0.004	-197.1	97	17.0	0.1	
Ba	135	He	0.026	68.3	19	44.4	0.1	
Ba	137	He	0.016	37.4	32	15.8	0.1	
Tl	203	He	0.017	16.0	217	13.7	0.04	
Tl	205	He	0.017	23.9	580	17.8	0.04	
[Pb]	206	He	0.011	34.8	251	8.1	0.1	
[Pb]	207	He	0.000	-38735.6	154	15.6	0.1	
Pb	208	He	0.004	40.1	834	2.9	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10882619	1.29	12521331	86.91	70	125	
Ge	72	He	166712	2.78	207726	80.26	70	125	
Ge	72	H2	2030832	1.89	2177262	93.27	70	125	
Rh	103	He	6146357	0.49	6761953	90.90	70	125	
In	115	He	1344567	1.53	1642329	81.87	70	125	
Lu	175	He	3516005	2.49	3701453	94.99	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	034LCCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:09:38-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.046	7.116	213	7.06	0.04	116	
V	51	He	0.412	3.897	1593	3.08	0.4	103	
Cr	52	He	0.443	7.246	2752	5.86	0.4	111	
Cr	53	He	0.438	1.046	348	1.11	0.4	110	
~~Mn~~	~~55~~	~~He~~	~~0.172~~	~~9.590~~	~~479~~	~~6.69~~	~~0.1~~	~~172~~	LLCCV Failed
Co	59	He	0.042	11.347	452	9.22	0.04	106	
Ni	60	He	0.390	3.944	1227	2.59	0.4	97	
Ni	62	He	0.438	16.355	217	13.67	0.4	110	
Cu	63	He	0.227	4.249	1871	4.56	0.2	114	
Cu	65	He	0.217	5.794	890	5.66	0.2	109	
Zn	66	He	1.021	14.555	1089	12.33	1	102	
As	75	He	1.043	6.457	551	6.15	1	104	
Se	77	H2	1.759	9.477	1746	4.76	2	88	
Se	78	H2	1.982	2.867	1971	1.75	2	99	
Mo	95	He	0.088	14.979	337	13.75	0.1	88	
Mo	97	He	0.079	7.784	208	8.84	0.1	79	
Mo	98	He	0.093	15.208	624	12.37	0.1	93	
Ag	107	He	0.041	1.752	572	2.99	0.04	103	
Ag	109	He	0.043	5.912	596	3.60	0.04	108	
Cd	111	He	0.040	7.203	62	5.69	0.04	99	
Cd	114	He	0.040	9.502	161	6.90	0.04	101	
Sb	121	He	0.089	0.721	402	0.83	0.1	89	
Sb	123	He	0.083	11.211	308	7.78	0.1	83	
Ba	135	He	0.129	36.023	69	32.94	0.1	129	
Ba	137	He	0.096	18.268	103	15.55	0.1	96	
Tl	203	He	0.051	14.384	512	11.57	0.04	127	
Tl	205	He	0.051	6.860	1305	6.33	0.04	129	
[Pb]	206	He	0.114	13.543	978	10.14	0.1	114	
[Pb]	207	He	0.127	7.131	934	6.93	0.1	127	
Pb	208	He	0.117	4.868	4015	2.98	0.1	117	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10695658	1.86	12521331	85.42	70	125	
Ge	72	He	165235	0.73	207726	79.54	70	125	
Ge	72	H2	2038353	2.84	2177262	93.62	70	125	
Rh	103	He	6224846	1.92	6761953	92.06	70	125	
In	115	He	1337643	0.39	1642329	81.45	70	125	
Lu	175	He	3447116	1.13	3701453	93.13	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	035LCCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:14:23-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.041	8.091	194	7.66	0.04	104	
V	51	He	0.399	7.641	1560	7.14	0.4	100	
Cr	52	He	0.428	3.679	2706	3.09	0.4	107	
Cr	53	He	0.400	2.223	328	2.12	0.4	100	
Mn	55	He	0.145	3.312	431	1.61	0.1	145	LLCCV Failed
Co	59	He	0.042	16.324	454	14.19	0.04	105	
Ni	60	He	0.395	3.320	1252	3.03	0.4	99	
Ni	62	He	0.462	9.285	229	7.33	0.4	116	
Cu	63	He	0.233	7.239	1931	6.27	0.2	117	
Cu	65	He	0.246	4.486	1007	4.67	0.2	123	
Zn	66	He	1.080	2.943	1152	1.97	1	108	
As	75	He	1.048	8.110	559	7.45	1	105	
Se	77	H2	1.816	11.808	1778	2.37	2	91	
Se	78	H2	1.987	1.951	1994	0.25	2	99	
Mo	95	He	0.102	11.783	386	11.28	0.1	102	
Mo	97	He	0.089	27.263	232	25.77	0.1	89	
Mo	98	He	0.098	17.040	658	15.70	0.1	98	
Ag	107	He	0.035	1.312	494	1.70	0.04	88	
Ag	109	He	0.038	13.434	527	12.06	0.04	95	
Cd	111	He	0.036	5.878	57	6.01	0.04	90	
Cd	114	He	0.039	8.478	158	7.40	0.04	99	
Sb	121	He	0.098	20.034	426	13.52	0.1	98	
Sb	123	He	0.075	6.111	285	4.09	0.1	75	
Ba	135	He	0.176	1.766	91	2.11	0.1	176	
Ba	137	He	0.115	16.038	119	14.11	0.1	115	
Tl	203	He	0.053	8.803	528	6.93	0.04	133	
Tl	205	He	0.049	7.990	1243	7.37	0.04	123	
[Pb]	206	He	0.116	11.889	981	10.86	0.1	116	
[Pb]	207	He	0.119	14.564	874	12.67	0.1	119	
Pb	208	He	0.116	2.147	3941	2.85	0.1	116	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10751657	1.81	12521331	85.87	70	125	
Ge	72	He	166806	0.58	207726	80.30	70	125	
Ge	72	H2	2056941	1.79	2177262	94.47	70	125	
Rh	103	He	6236734	0.53	6761953	92.23	70	125	
In	115	He	1330104	0.55	1642329	80.99	70	125	
Lu	175	He	3409566	1.16	3701453	92.11	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	036LCCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:19:07-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.051	13.732	228	11.17	0.04	128	
V	51	He	0.396	7.759	1516	7.54	0.4	99	
Cr	52	He	0.460	5.991	2806	4.91	0.4	115	
Cr	53	He	0.458	4.199	356	3.01	0.4	114	
Mn	55	He	0.130	26.176	394	16.52	0.1	130	
Co	59	He	0.046	1.341	479	1.06	0.04	114	
Ni	60	He	0.377	12.972	1180	10.73	0.4	94	
Ni	62	He	0.430	22.025	211	18.44	0.4	108	
Cu	63	He	0.248	3.370	1998	2.86	0.2	124	
Cu	65	He	0.225	16.096	909	14.67	0.2	112	
Zn	66	He	1.134	12.083	1177	10.37	1	113	
As	75	He	1.070	1.880	559	2.02	1	107	
Se	77	H2	1.985	13.192	1816	4.43	2	99	
Se	78	H2	2.048	4.244	2038	4.12	2	102	
Mo	95	He	0.084	3.600	317	3.65	0.1	84	
Mo	97	He	0.084	44.570	218	39.93	0.1	84	
Mo	98	He	0.102	9.960	673	7.29	0.1	102	
Ag	107	He	0.043	11.498	592	9.42	0.04	108	
Ag	109	He	0.041	11.299	564	8.48	0.04	104	
Cd	111	He	0.037	7.898	57	5.27	0.04	93	
Cd	114	He	0.040	6.696	159	5.31	0.04	100	
Sb	121	He	0.089	7.619	394	5.16	0.1	89	
Sb	123	He	0.083	8.731	302	5.82	0.1	83	
Ba	135	He	0.130	25.417	68	22.18	0.1	130	
Ba	137	He	0.113	22.577	117	20.00	0.1	113	
Tl	203	He	0.050	16.561	507	14.25	0.04	124	
Tl	205	He	0.044	5.308	1153	4.94	0.04	110	
[Pb]	206	He	0.115	1.338	990	0.34	0.1	115	
[Pb]	207	He	0.101	7.381	776	6.23	0.1	101	
Pb	208	He	0.107	1.167	3757	0.90	0.1	107	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10457315	1.31	12521331	83.52	70	125	
Ge	72	He	163407	0.21	207726	78.66	70	125	
Ge	72	H2	2039098	0.08	2177262	93.65	70	125	
Rh	103	He	6156365	2.28	6761953	91.04	70	125	
In	115	He	1312080	0.97	1642329	79.89	70	125	
Lu	175	He	3463186	0.93	3701453	93.56	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	037_QC1.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:23:52-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.073	4.397	322	0.93	0.08	91	
V	51	He	0.717	1.572	2739	1.82	0.8	90	
Cr	52	He	0.742	4.173	4255	3.38	0.8	93	
Cr	53	He	0.745	7.173	538	5.86	0.8	93	
Mn	55	He	0.210	18.470	560	14.17	0.2	105	
Co	59	He	0.073	4.622	744	4.70	0.08	91	
Ni	60	He	0.739	5.492	2167	4.43	0.8	92	
Ni	62	He	0.760	13.605	354	11.76	0.8	95	
Cu	63	He	0.459	1.253	3633	1.70	0.4	115	
Cu	65	He	0.441	5.692	1739	5.98	0.4	110	
Zn	66	He	2.259	1.203	2216	1.58	2	113	
As	75	He	1.870	3.647	991	3.55	2	93	
Se	77	H2	3.684	5.181	2354	1.51	4	92	
Se	78	H2	3.724	4.413	3694	2.09	4	93	
Mo	95	He	0.185	9.370	679	7.94	0.2	92	
Mo	97	He	0.201	6.563	497	5.07	0.2	100	
Mo	98	He	0.176	9.995	1133	10.62	0.2	88	
Ag	107	He	0.080	2.619	1079	2.52	0.08	100	
Ag	109	He	0.087	5.483	1151	4.07	0.08	109	
Cd	111	He	0.070	4.837	105	5.94	0.08	88	
Cd	114	He	0.077	2.733	296	3.14	0.08	97	
Sb	121	He	0.192	7.524	698	5.42	0.2	96	
Sb	123	He	0.201	7.007	581	5.45	0.2	100	
Ba	135	He	0.169	8.578	87	7.69	0.2	85	
Ba	137	He	0.218	17.244	208	16.18	0.2	109	
Tl	203	He	0.081	3.779	779	2.02	0.08	102	
Tl	205	He	0.076	5.093	1810	5.92	0.08	95	
[Pb]	206	He	0.206	6.828	1618	4.64	0.2	103	
[Pb]	207	He	0.217	7.558	1483	7.07	0.2	109	
Pb	208	He	0.213	6.263	6676	4.30	0.2	106	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10782006	3.27	12521331	86.11	70	125	
Ge	72	He	167181	0.56	207726	80.48	70	125	
Ge	72	H2	2045431	2.27	2177262	93.95	70	125	
Rh	103	He	6157390	1.56	6761953	91.06	70	125	
In	115	He	1311544	0.85	1642329	79.86	70	125	
Lu	175	He	3424371	1.44	3701453	92.51	70	125	

Prep Blank (PB) Report

Sample Table

Sample Name	KQ1509037-02
Data File Name	038_PB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:28:36-07:00
Sample Type	PB
Dilution	1
Comment	5
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.000	478.8	26	22.8	0.04	
V	51	He	-0.006	-29.5	63	10.5	0.4	
Cr	52	He	0.177	8.6	1490	5.3	0.4	
Cr	53	He	0.245	16.1	237	10.6	0.4	
Mn	55	He	0.095	0.9	337	0.0	0.1	
Co	59	He	0.000	-2079.5	61	32.0	0.04	
Ni	60	He	0.031	40.5	292	11.5	0.4	
Ni	62	He	0.035	97.8	50	29.1	0.4	
Cu	63	He	0.052	18.0	577	11.7	0.2	
Cu	65	He	0.056	8.6	301	5.7	0.2	
~~Zn~~	~~66~~	~~He~~	~~0.158~~	~~52.5~~	~~328~~	~~22.6~~	~~1~~	
As	75	He	-0.007	-108.6	7	55.1	1	
Se	77	H2	-0.167	-132.0	1184	5.8	2	
Se	78	H2	0.001	919.4	25	32.8	2	
Mo	95	He	0.012	6.2	61	3.1	0.1	
Mo	97	He	0.004	165.9	27	57.3	0.1	
Mo	98	He	0.010	48.1	106	25.7	0.1	
Ag	107	He	0.001	104.3	46	34.6	0.04	
Ag	109	He	0.000	-282.9	32	26.0	0.04	
Cd	111	He	0.000	461.7	4	53.3	0.04	
Cd	114	He	0.102	4.7	390	3.2	0.04	Flag
Sb	121	He	-0.024	-30.3	60	36.4	0.1	
Sb	123	He	-0.017	-47.8	63	33.0	0.1	
Ba	135	He	0.026	84.7	19	56.7	0.1	
Ba	137	He	0.009	121.3	26	39.0	0.1	
Tl	203	He	-0.001	-195.5	53	43.7	0.04	
Tl	205	He	-0.004	-16.1	130	9.2	0.04	
[Pb]	206	He	0.008	59.2	230	14.0	0.1	
[Pb]	207	He	0.011	53.1	221	15.7	0.1	
Pb	208	He	0.008	11.6	966	2.6	0.1	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10806587	0.76	12521331	86.31	70	125	
Ge	72	He	168226	0.49	207726	80.98	70	125	
Ge	72	H2	2109720	0.85	2177262	96.90	70	125	
Rh	103	He	6235307	1.35	6761953	92.21	70	125	
In	115	He	1342906	0.92	1642329	81.77	70	125	
Lu	175	He	3516121	0.38	3701453	94.99	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1508582-001
Data File Name	039_ARF.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:33:21-07:00
Sample Type	AllRef
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.969	2.54	4317	0.02	
V	51	He	225.215	0.97	818127	0.03	
Cr	52	He	436.104	1.38	2102107	0.02	
Cr	53	He	429.852	0.66	255278	0.17	
~~Mn~~	~~55~~	~~He~~	~~7008.185~~	~~1.49~~	~~13499656~~	~~0.05~~	~~AllRef Main CR1 Failed~~ *
Co	59	He	30.149	1.29	276895	0.01	
Ni	60	He	64.538	0.19	168187	0.04	
Ni	62	He	64.129	1.67	26499	0.24	
Cu	63	He	152.677	0.55	1125571	0.01	
Cu	65	He	151.795	0.93	557023	0.03	
~~Zn~~	~~66~~	~~He~~	~~4919.884~~	~~1.94~~	~~4341946~~	~~0.11~~	~~AllRef Main CR1 Failed~~ *
As	75	He	12.770	1.26	6576	0.19	
Se	77	H2	1.541	7.33	1670	0.09	
Se	78	H2	0.318	3.45	334	0.10	
Mo	95	He	7.803	1.33	26119	0.03	
Mo	97	He	7.649	2.61	17073	0.04	
Mo	98	He	7.739	2.67	44655	0.02	
Ag	107	He	2.242	1.66	27337	0.01	
Ag	109	He	2.239	1.67	26799	0.01	
Cd	111	He	13.147	0.87	17714	0.07	
Cd	114	He	13.198	0.68	45376	0.03	
Sb	121	He	7.076	2.35	20863	0.03	
Sb	123	He	7.047	2.35	16756	0.04	
Ba	135	He	282.802	1.09	133652	0.21	
Ba	137	He	285.723	0.89	248625	0.11	
Tl	203	He	0.207	4.53	1902	0.01	
Tl	205	He	0.216	3.75	4833	0.00	
[Pb]	206	He	1164.120	2.42	8244122	0.01	
[Pb]	207	He	1127.031	2.57	6975713	0.02	
Pb	208	He	1135.896	2.76	32129127	0.00	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11657664	1.06	12521331	93.10	70	125	
Ge	72	He	163984	1.18	207726	78.94	70	125	
Ge	72	H2	2028803	2.52	2177262	93.18	70	125	
Rh	103	He	5742906	0.61	6761953	84.93	70	125	
In	115	He	1302189	1.36	1642329	79.29	70	125	
Lu	175	He	3456678	1.10	3701453	93.39	70	125	

Sample Report

Sample Table

Sample Name	K1508582-001D
Data File Name	040SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:38:00-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.834	0.72	3668	0.02	
V	51	He	203.679	1.25	739657	0.03	
Cr	52	He	299.920	0.62	1445258	0.02	
Cr	53	He	290.700	1.72	172604	0.17	
~~Mn~~	~~55~~	~~He~~	~~4862.053~~	~~2.34~~	~~9362152~~	~~0.05~~	~~>LDR~~ *
Co	59	He	32.263	0.30	296208	0.01	
Ni	60	He	72.102	0.52	187801	0.04	
Ni	62	He	72.590	2.74	29977	0.24	
Cu	63	He	163.557	0.95	1205267	0.01	
Cu	65	He	162.090	1.25	594511	0.03	
~~Zn~~	~~66~~	~~He~~	~~5113.638~~	~~1.51~~	~~4510605~~	~~0.11~~	~~>LDR~~ *
As	75	He	12.854	0.56	6616	0.19	
Se	77	H2	1.318	7.16	1581	0.08	
Se	78	H2	0.298	7.13	311	0.10	
Mo	95	He	8.713	3.95	29784	0.03	
Mo	97	He	8.668	1.11	19764	0.04	
Mo	98	He	8.661	1.37	51053	0.02	
Ag	107	He	2.334	1.68	29081	0.01	
Ag	109	He	2.310	1.27	28237	0.01	
Cd	111	He	13.783	1.55	18972	0.07	
Cd	114	He	13.936	0.78	48954	0.03	
Sb	121	He	7.262	0.92	21688	0.03	
Sb	123	He	7.268	1.01	17504	0.04	
Ba	135	He	283.782	0.89	135836	0.21	
Ba	137	He	285.544	0.75	251653	0.11	
Tl	203	He	0.218	4.74	2041	0.01	
Tl	205	He	0.219	4.28	5005	0.00	
[Pb]	206	He	1251.009	2.99	9050318	0.01	
[Pb]	207	He	1223.064	2.64	7733546	0.02	
Pb	208	He	1233.297	2.96	35634215	0.00	

* dilute
MMR
8/21/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11489643	0.97	12521331	91.76	70	125	
Ge	72	He	163915	0.71	207726	78.91	70	125	
Ge	72	H2	2004685	2.20	2177262	92.07	70	125	
Rh	103	He	5867910	1.74	6761953	86.78	70	125	
In	115	He	1318837	0.97	1642329	80.30	70	125	
Lu	175	He	3532117	2.72	3701453	95.43	70	125	

Sample Report

Sample Table

Sample Name	K1508582-001L
Data File Name	041SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:42:39-07:00
Sample Type	Sample
Dilution	1
Comment	25
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.210	2.74	893	0.02	
V	51	He	43.934	1.76	161192	0.03	
Cr	52	He	85.316	1.01	415666	0.02	
Cr	53	He	86.161	0.57	51734	0.17	
~~Mn~~	~~55~~	~~He~~	~~1445.234~~	~~2.37~~	~~2810369~~	~~0.05~~	*
Co	59	He	6.249	2.82	57993	0.01	
Ni	60	He	13.086	1.49	34593	0.04	
Ni	62	He	12.967	4.80	5436	0.24	
Cu	63	He	31.557	1.02	235026	0.01	
Cu	65	He	31.417	1.68	116460	0.03	
~~Zn~~	~~66~~	~~He~~	~~978.093~~	~~1.47~~	~~871543~~	~~0.11~~	*
As	75	He	2.557	4.77	1338	0.19	
Se	77	H2	0.147	90.86	1244	0.01	
Se	78	H2	0.049	21.14	72	0.07	
Mo	95	He	1.487	3.78	5172	0.03	
Mo	97	He	1.515	5.67	3518	0.04	
Mo	98	He	1.518	3.22	9115	0.02	
Ag	107	He	0.462	3.48	5864	0.01	
Ag	109	He	0.459	4.21	5720	0.01	
Cd	111	He	2.590	3.15	3621	0.07	
Cd	114	He	2.623	3.80	9357	0.03	
Sb	121	He	1.384	1.83	4278	0.03	
Sb	123	He	1.395	1.92	3474	0.04	
Ba	135	He	56.138	1.36	27122	0.21	
Ba	137	He	56.687	0.36	50431	0.11	
Tl	203	He	0.036	11.25	383	0.01	
Tl	205	He	0.039	6.54	1046	0.00	
[Pb]	206	He	244.733	1.26	1743355	0.01	
[Pb]	207	He	220.779	2.29	1374190	0.02	
Pb	208	He	235.323	1.38	6695195	0.00	

* dilute
MMR 8/21/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10900114	1.34	12521331	87.05	70	125	
Ge	72	He	165564	0.91	207726	79.70	70	125	
Ge	72	H2	2042114	2.53	2177262	93.79	70	125	
Rh	103	He	5957483	3.05	6761953	88.10	70	125	
In	115	He	1330852	0.64	1642329	81.03	70	125	
Lu	175	He	3476548	2.68	3701453	93.92	70	125	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1508582-001A
Data File Name	042_PDS.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:47:21-07:00
Sample Type	PDS
Dilution	1
Comment	5 +50ppb +10ppb Ag
QC Ref File Name	039_ARF.d
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag	
Be	9	No Gas	48.715	1.357	212385	0.57	50	95		
V	51	He	272.910	0.291	983313	1.17	50	95		*
Cr	52	He	495.458	3.305	2368242	2.65	50	119		*
Cr	53	He	478.343	0.804	281746	0.52	50	97		
~~Mn~~	~~55~~	~~He~~	~~7127.859~~	~~2.277~~	~~13616197~~	~~1.83~~	~~50~~	~~239~~	~~Flag~~	* 1
Co	59	He	81.686	0.427	744046	1.11	50	103		
Ni	60	He	115.978	0.216	299612	0.79	50	103		
Ni	62	He	114.839	1.284	47040	0.57	50	101		
Cu	63	He	214.971	1.814	1571831	1.97	50	125	Flag	
Cu	65	He	205.366	0.463	747429	1.23	50	107		
~~Zn~~	~~66~~	~~He~~	~~4934.936~~	~~1.006~~	~~4319380~~	~~1.26~~	~~50~~	~~30~~	~~Flag~~	1
As	75	He	65.754	0.631	33538	1.18	50	106		
Se	77	H2	54.006	1.083	17594	1.07	50	105		
Se	78	H2	51.835	2.162	49665	0.66	50	103		
Mo	95	He	58.645	1.446	198962	0.44	50	102		
Mo	97	He	58.389	1.276	132048	0.84	50	101		
Mo	98	He	59.092	1.108	345508	0.89	50	103		
Ag	107	He	12.389	1.736	153078	1.02	10	101		
Ag	109	He	12.467	1.679	151139	0.59	10	102		
Cd	111	He	62.732	0.745	85705	1.28	50	99		
Cd	114	He	63.069	0.927	219848	0.56	50	100		
Sb	121	He	61.004	0.373	177018	0.51	50	108		
Sb	123	He	61.448	0.430	143815	0.37	50	109		
Ba	135	He	340.280	0.711	159123	0.71	50	115		
Ba	137	He	344.523	0.099	296634	0.82	50	118		*
Tl	203	He	53.814	0.789	471644	0.86	50	107		
Tl	205	He	54.073	0.995	1146424	0.99	50	108		
[Pb]	206	He	1215.932	0.100	8509609	0.05	50	104		
[Pb]	207	He	1182.741	0.300	7234392	0.41	50	111		
Pb	208	He	1193.757	0.581	33368667	0.45	50	116		*

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11472516	1.36	12521331	91.62	70	125	
Ge	72	He	162644	0.88	207726	78.30	70	125	
Ge	72	H2	1986002	2.00	2177262	91.22	70	125	
Rh	103	He	5823978	1.09	6761953	86.13	70	125	
In	115	He	1288400	0.73	1642329	78.45	70	125	
Lu	175	He	3415357	0.14	3701453	92.27	70	125	

*NA
1 dilute
MMK
8/21/15

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1508582-001S
Data File Name	043_Spk.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:51:59-07:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	039_ARF.d
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag	
Be	9	No Gas	19.836	1.344	84269	0.78	20	94		
V	51	He	456.672	0.546	1618554	1.16	200	116		
Cr	52	He	704.240	0.045	3311602	0.61	80	335	Flag	1
Cr	53	He	685.660	0.152	397253	0.68	80	320	Flag	
~~Mn~~	~~55~~	~~He~~	~~10738.249~~	~~0.281~~	~~20180611~~	~~0.92~~	~~200~~	~~1865~~	~~Flag~~	3
Co	59	He	243.980	1.884	2186086	2.37	200	107		
Ni	60	He	260.015	1.525	660520	1.63	200	98		
Ni	62	He	255.648	0.971	102979	1.39	200	96		
Cu	63	He	273.144	0.887	1964662	1.47	100	120		
Cu	65	He	257.207	0.854	920802	0.97	100	105		
~~Zn~~	~~66~~	~~He~~	~~5689.048~~	~~1.765~~	~~4898101~~	~~1.59~~	~~200~~	~~385~~	~~Flag~~	3
As	75	He	219.488	0.852	110099	1.01	200	103		
Se	77	H2	202.847	2.669	62586	1.19	200	101		
Se	78	H2	199.263	1.116	190051	0.83	200	99		
Mo	95	He	209.471	0.557	697131	0.81	200	101		
Mo	97	He	208.904	0.517	463425	0.91	200	101		
Mo	98	He	211.806	1.054	1214774	1.43	200	102		
Ag	107	He	22.152	0.690	268496	0.65	20	100		
Ag	109	He	22.514	0.920	267741	1.15	20	101		
Cd	111	He	34.097	0.406	45696	0.09	20	105		
Cd	114	He	34.133	0.309	116725	0.58	20	105		
Sb	121	He	97.961	0.230	279639	0.23	200	45	Flag	
Sb	123	He	98.587	0.265	226990	0.13	200	46	Flag	2
Ba	135	He	849.817	0.405	391038	0.61	400	142	Flag	
Ba	137	He	855.426	0.391	724711	0.29	400	142	Flag	
Tl	203	He	230.611	2.077	2019611	2.63	200	115		
Tl	205	He	227.799	0.839	4825579	1.35	200	114		
[Pb]	206	He	1556.158	1.621	10882078	1.25	200	196	Flag	
[Pb]	207	He	1524.015	0.533	9314792	0.49	200	198	Flag	
Pb	208	He	1536.067	1.155	42903669	0.60	200	200	Flag	1

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	11177977	1.97	12521331	89.27	70	125	
Ge	72	He	159992	0.64	207726	77.02	70	125	
Ge	72	H2	1977294	1.63	2177262	90.82	70	125	
Rh	103	He	5712851	0.43	6761953	84.49	70	125	
In	115	He	1267796	0.33	1642329	77.19	70	125	
Lu	175	He	3412883	0.83	3701453	92.20	70	125	

1 >4X
2 PDS OK
3 dilute
MMK 8/21/15

Laboratory Control Sample (LCSS) Report

Sample Table

Sample Name	KQ1509037-01
Data File Name	044_QCS.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T20:56:34-07:00
Sample Type	QCS
Dilution	1
Comment	20
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	40.228	2.234	163903	0.45	36.15	111.3	
V	51	He	54.892	2.631	198902	1.21	48.8	112.5	
Cr	52	He	80.349	1.187	386737	0.73	68	118.2	
Cr	53	He	79.747	1.364	47301	0.27	68	117.3	
Mn	55	He	176.744	1.629	339643	0.54	161.5	109.4	
Co	59	He	76.345	0.940	699235	0.81	64	119.3	
Ni	60	He	93.383	1.685	242596	0.23	76.5	122.1	
Ni	62	He	91.450	0.750	37679	1.70	76.5	119.5	
Cu	63	He	61.211	1.360	450154	0.63	51	120.0	
Cu	65	He	60.346	2.030	220882	1.09	51	118.3	
~~Zn~~	~~66~~	~~He~~	~~92.702~~	~~0.884~~	~~81771~~	~~1.74~~	~~80.5~~	~~115.2~~	*
As	75	He	56.380	1.145	28916	0.78	49.8	113.2	
Se	77	H2	86.618	1.228	28591	1.29	75	115.5	
Se	78	H2	85.660	2.547	85267	0.94	75	114.2	
Mo	95	He	74.516	1.957	256563	1.33	66.5	112.1	
Mo	97	He	74.354	0.884	170657	0.83	66.5	111.8	
Mo	98	He	75.497	1.640	447967	1.04	66.5	113.5	
Ag	107	He	22.730	1.145	285033	0.61	20.2	112.5	
Ag	109	He	23.005	1.727	283038	1.65	20.2	113.9	
Cd	111	He	101.948	1.023	141346	0.49	91	112.0	
Cd	114	He	101.927	1.482	360569	0.52	91	112.0	
Sb	121	He	42.787	0.961	126908	1.34	44.1	97.0	
Sb	123	He	42.954	0.731	102758	0.98	44.1	97.4	
Ba	135	He	179.291	0.301	85673	0.33	155	115.7	
Ba	137	He	179.760	0.865	158158	1.13	155	116.0	
Tl	203	He	106.187	0.978	941227	1.24	87	122.1	
Tl	205	He	117.749	1.813	2524466	0.89	87	135.3	QCS Main CR1 Failed
[Pb]	206	He	68.226	1.475	483062	0.91	57.5	118.7	
[Pb]	207	He	66.488	1.987	411431	1.30	57.5	115.6	
Pb	208	He	67.558	1.487	1910548	0.89	57.5	117.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10722828	1.78	12521331	85.64	70	125	
Ge	72	He	163558	1.63	207726	78.74	70	125	
Ge	72	H2	2063673	1.72	2177262	94.78	70	125	
Rh	103	He	5910657	0.98	6761953	87.41	70	125	
In	115	He	1316502	0.57	1642329	80.16	70	125	
Lu	175	He	3454656	1.77	3701453	93.33	70	125	

*Reran MMR 8/21/15

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	045_CCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:01:18-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.534	2.260	103932	1.35	25	102	
V	51	He	25.246	1.184	91428	0.89	25	101	
Cr	52	He	25.980	2.599	125272	0.60	25	104	
Cr	53	He	26.214	2.361	15585	0.78	25	105	
Mn	55	He	25.488	1.924	49042	0.51	25	102	
Co	59	He	26.507	0.922	242522	1.14	25	106	
Ni	60	He	26.538	1.657	69011	1.76	25	106	
Ni	62	He	26.873	3.204	11079	1.54	25	107	
Cu	63	He	26.959	1.133	198132	1.52	25	108	
Cu	65	He	26.893	1.330	98373	1.57	25	108	
Zn	66	He	26.664	2.721	23615	2.09	25	107	
As	75	He	25.366	1.939	13000	2.11	25	101	
Se	77	H2	24.932	5.224	9164	2.23	25	100	
Se	78	H2	24.857	2.356	24969	0.89	25	99	
Mo	95	He	24.000	1.761	86360	0.94	25	96	
Mo	97	He	24.323	1.023	58356	2.22	25	97	
Mo	98	He	24.320	1.350	150839	1.90	25	97	
Ag	107	He	24.652	2.103	322986	0.73	25	99	
Ag	109	He	24.809	1.111	318957	1.35	25	99	
Cd	111	He	23.867	0.379	34585	1.82	25	95	
Cd	114	He	23.991	1.438	88693	0.42	25	96	
Sb	121	He	26.387	0.664	78144	0.81	25	106	
Sb	123	He	27.017	1.468	64527	1.07	25	108	
Ba	135	He	26.985	2.398	12872	2.35	25	108	
Ba	137	He	27.038	1.069	23751	0.68	25	108	
Tl	203	He	26.562	1.194	235152	1.20	25	106	
Tl	205	He	26.566	1.485	568941	1.03	25	106	
[Pb]	206	He	26.791	1.027	189529	0.73	25	107	
[Pb]	207	He	26.455	0.744	163577	0.70	25	106	
Pb	208	He	26.666	1.472	753460	0.20	25	107	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10711307	2.17	12521331	85.54	70	125	
Ge	72	He	163366	2.02	207726	78.65	70	125	
Ge	72	H2	2081219	2.32	2177262	95.59	70	125	
Rh	103	He	6176794	1.79	6761953	91.35	70	125	
In	115	He	1313642	0.45	1642329	79.99	70	125	
Lu	175	He	3449591	1.31	3701453	93.20	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	046_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:06:03-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

Reran [illegible] 8/21/15

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.005	32.4	46	15.2	0.04	
V	51	He	0.002	73.9	92	5.5	0.4	
Cr	52	He	0.019	103.0	710	13.4	0.4	
Cr	53	He	-0.012	-5.5	80	0.0	0.4	
Mn	55	He	0.242	5.4	628	4.3	0.1	CCB Failed
Co	59	He	0.006	41.0	116	18.8	0.04	
Ni	60	He	-0.025	-42.9	143	20.3	0.4	
Ni	62	He	-0.036	-0.7	20	0.0	0.4	
Cu	63	He	0.013	82.1	282	27.7	0.2	
Cu	65	He	0.017	96.4	152	40.2	0.2	
Zn	66	He	0.259	11.7	420	7.1	1	
As	75	He	-0.005	-55.3	8	18.3	1	
Se	77	H2	-0.276	-35.4	1110	3.4	20	
Se	78	H2	-0.003	-91.2	20	14.2	2	
Mo	95	He	0.015	27.8	71	23.1	0.1	
Mo	97	He	0.010	55.6	40	30.0	0.1	
Mo	98	He	0.012	36.0	119	24.2	0.1	
Ag	107	He	0.002	22.4	62	11.1	0.04	
Ag	109	He	0.001	41.6	49	14.2	0.04	
Cd	111	He	0.003	80.6	8	41.6	0.04	
Cd	114	He	0.004	23.4	26	14.1	0.04	
Sb	121	He	0.002	302.4	138	11.9	0.2	
Sb	123	He	0.002	583.8	109	23.0	0.1	
Ba	135	He	0.008	264.6	10	100.0	0.1	
Ba	137	He	0.003	180.1	20	22.0	0.1	
Tl	203	He	0.047	4.6	480	4.3	0.04	CCB Failed
Tl	205	He	0.042	28.3	1109	22.7	0.04	CCB Failed
[Pb]	206	He	0.066	10.6	646	7.6	0.1	
[Pb]	207	He	0.059	23.1	518	16.0	0.1	
Pb	208	He	0.058	7.7	2356	5.0	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10755109	1.08	12521331	85.89	70	125	
Ge	72	He	168634	0.51	207726	81.18	70	125	
Ge	72	H2	2039072	2.16	2177262	93.65	70	125	
Rh	103	He	6124682	1.98	6761953	90.58	70	125	
In	115	He	1328334	0.53	1642329	80.88	70	125	
Lu	175	He	3469883	0.38	3701453	93.74	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	047_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:10:47-07:00
Sample Type	CCB
Dilution	
Comment	Review
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.004	36.3	39	13.3	0.04	
V	51	He	-0.001	-673.3	81	28.0	0.4	
Cr	52	He	0.027	19.3	740	2.8	0.4	
Cr	53	He	-0.001	-2934.4	86	22.8	0.4	
Mn	55	He	0.212	2.9	561	2.7	0.1	CCB Failed
Co	59	He	0.004	53.1	103	22.3	0.04	
Ni	60	He	-0.026	-23.0	138	10.9	0.4	
Ni	62	He	-0.041	-56.4	18	54.1	0.4	
Cu	63	He	0.005	211.9	219	34.3	0.2	
Cu	65	He	0.003	82.3	99	8.5	0.2	
Zn	66	He	0.169	51.8	333	22.9	1	
As	75	He	0.001	354.7	12	21.6	1	
Se	77	H2	-0.281	-42.3	1110	3.8	20	
Se	78	H2	0.001	1675.6	24	44.4	2	
Mo	95	He	0.003	131.2	28	56.7	0.1	
Mo	97	He	-0.002	-251.8	13	66.1	0.1	
Mo	98	He	0.002	109.6	56	21.1	0.1	
Ag	107	He	0.003	27.5	62	13.5	0.04	
Ag	109	He	0.001	103.6	46	27.7	0.04	
Cd	111	He	0.000	593.8	4	19.9	0.04	
Cd	114	He	0.001	49.6	14	12.8	0.04	
Sb	121	He	-0.020	-44.1	73	35.5	0.2	
Sb	123	He	-0.017	-38.5	64	24.7	0.1	
Ba	135	He	0.029	125.1	20	86.6	0.1	
Ba	137	He	0.000	1791.8	18	28.6	0.1	
Tl	203	He	0.023	14.3	268	10.9	0.04	
Tl	205	He	0.014	16.7	503	10.0	0.04	
[Pb]	206	He	0.042	4.9	476	2.8	0.1	
[Pb]	207	He	0.048	16.7	451	11.1	0.1	
Pb	208	He	0.044	1.9	1991	1.1	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10573346	0.83	12521331	84.44	70	125	
Ge	72	He	166279	0.78	207726	80.05	70	125	
Ge	72	H2	2041334	0.99	2177262	93.76	70	125	
Rh	103	He	6028718	1.10	6761953	89.16	70	125	
In	115	He	1322906	0.62	1642329	80.55	70	125	
Lu	175	He	3485689	0.26	3701453	94.17	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	048_CCB.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:15:32-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.004	43.2	39	15.6	0.04	
V	51	He	-0.006	-33.4	61	11.4	0.4	
Cr	52	He	0.027	45.0	712	7.5	0.4	
Cr	53	He	0.016	171.3	92	17.1	0.4	
Mn	55	He	0.174	10.0	468	7.7	0.1	CCB Failed
Co	59	He	0.002	128.5	74	26.2	0.04	
Ni	60	He	-0.030	-19.8	121	13.0	0.4	
Ni	62	He	-0.050	-33.7	13	50.0	0.4	
Cu	63	He	0.012	17.6	259	5.2	0.2	
Cu	65	He	0.012	9.7	129	4.0	0.2	
Zn	66	He	0.164	20.0	317	8.2	1	
As	75	He	-0.006	-182.8	8	66.9	1	
Se	77	H2	-0.179	-68.6	1126	3.8	20	
Se	78	H2	-0.001	-324.7	21	19.5	2	
Mo	95	He	0.001	99.0	21	24.1	0.1	
Mo	97	He	-0.003	-63.3	9	57.3	0.1	
Mo	98	He	-0.001	-459.4	40	54.6	0.1	
Ag	107	He	0.000	323.5	31	12.4	0.04	
Ag	109	He	0.001	91.9	46	23.5	0.04	
Cd	111	He	0.001	61.1	5	12.4	0.04	
Cd	114	He	0.000	329.0	11	11.6	0.04	
Sb	121	He	-0.009	-51.5	102	13.2	0.2	
Sb	123	He	-0.013	-30.6	71	14.1	0.1	
Ba	135	He	0.013	114.4	12	56.8	0.1	
Ba	137	He	0.005	192.2	21	36.5	0.1	
Tl	203	He	0.009	18.5	141	8.9	0.04	
Tl	205	He	0.005	13.7	314	5.0	0.04	
[Pb]	206	He	0.044	11.5	476	6.3	0.1	
[Pb]	207	He	0.043	3.9	416	3.8	0.1	
Pb	208	He	0.040	7.3	1819	3.5	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10634652	2.70	12521331	84.93	70	125	
Ge	72	He	159968	1.09	207726	77.01	70	125	
Ge	72	H2	2012742	1.11	2177262	92.44	70	125	
Rh	103	He	6075353	1.02	6761953	89.85	70	125	
In	115	He	1295065	0.93	1642329	78.86	70	125	
Lu	175	He	3423803	1.31	3701453	92.50	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	049LCCV.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:20:18-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.046	2.544	208	1.00	0.04	115	
V	51	He	0.405	7.859	1538	6.52	0.4	101	
Cr	52	He	0.434	0.515	2662	1.95	0.4	109	
Cr	53	He	0.429	24.559	336	17.36	0.4	107	
~~Mn~~	~~55~~	~~He~~	~~0.230~~	~~15.259~~	~~582~~	~~13.18~~	~~0.1~~	~~230~~	~~LLCCV Failed~~ (1)
Co	59	He	0.046	14.484	478	13.78	0.04	115	
Ni	60	He	0.384	7.164	1189	4.38	0.4	96	
Ni	62	He	0.327	52.338	167	40.60	0.4	82	
Cu	63	He	0.224	9.622	1813	8.04	0.2	112	
Cu	65	He	0.228	4.599	914	5.65	0.2	114	
Zn	66	He	1.271	6.025	1288	5.90	1	127	
As	75	He	1.018	6.558	528	4.87	1	102	
Se	77	H2	1.661	14.829	1711	4.41	2	83	
Se	78	H2	2.018	2.907	2002	3.15	2	101	
Mo	95	He	0.099	25.294	374	25.84	0.1	99	
Mo	97	He	0.102	13.893	263	11.25	0.1	102	
Mo	98	He	0.104	9.467	696	7.97	0.1	104	
Ag	107	He	0.038	12.906	532	12.90	0.04	95	
Ag	109	He	0.039	10.450	541	11.18	0.04	98	
Cd	111	He	0.037	9.073	58	9.58	0.04	93	
Cd	114	He	0.041	2.334	164	2.37	0.04	103	
Sb	121	He	0.095	11.049	408	8.25	0.1	95	
Sb	123	He	0.085	19.869	303	13.22	0.1	85	
Ba	135	He	0.133	16.633	69	15.55	0.1	133	
~~Ba~~	~~137~~	~~He~~	~~0.145~~	~~16.290~~	~~144~~	~~13.96~~	~~0.1~~	~~145~~	~~LLCCV Failed~~ (2)
Tl	203	He	0.050	17.889	509	15.73	0.04	126	
Tl	205	He	0.046	7.291	1186	5.74	0.04	115	
[Pb]	206	He	0.139	0.201	1153	0.50	0.1	139	
[Pb]	207	He	0.147	11.666	1056	9.59	0.1	147	
~~Pb~~	~~208~~	~~He~~	~~0.143~~	~~1.868~~	~~4749~~	~~1.53~~	~~0.1~~	~~143~~	~~LLCCV Failed~~ (2)

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10589738	2.03	12521331	84.57	70	125	
Ge	72	He	162269	1.66	207726	78.12	70	125	
Ge	72	H2	2033761	0.67	2177262	93.41	70	125	
Rh	103	He	6207221	2.02	6761953	91.80	70	125	
In	115	He	1303050	0.78	1642329	79.34	70	125	
Lu	175	He	3440988	0.43	3701453	92.96	70	125	

(1) See 1 ppb
(2) 2x
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Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	050_QC1.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:25:02-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.074	6.377	323	6.58	0.08	92	
V	51	He	0.699	5.615	2696	6.68	0.8	87	
Cr	52	He	0.778	3.552	4465	1.78	0.8	97	
Cr	53	He	0.793	12.507	571	11.52	0.8	99	
Mn	55	He	0.322	3.932	786	4.19	0.2	161	QC1 Main CR1 Failed
Co	59	He	0.075	5.765	772	4.01	0.08	94	
Ni	60	He	0.779	6.982	2291	5.17	0.8	97	
Ni	62	He	0.721	16.931	341	16.07	0.8	90	
Cu	63	He	0.455	4.118	3630	3.71	0.4	114	
Cu	65	He	0.464	7.931	1837	7.83	0.4	116	
Zn	66	He	2.416	4.814	2375	5.24	2	121	
As	75	He	1.903	3.017	1016	2.85	2	95	
Se	77	H2	3.431	4.964	2287	3.81	4	86	
Se	78	H2	3.615	3.986	3606	2.27	4	90	
Mo	95	He	0.174	14.689	620	14.85	0.2	87	
Mo	97	He	0.171	6.689	412	6.07	0.2	85	
Mo	98	He	0.174	15.096	1088	13.82	0.2	87	
Ag	107	He	0.083	10.436	1078	10.02	0.08	103	
Ag	109	He	0.082	1.655	1056	1.11	0.08	103	
Cd	111	He	0.082	4.856	119	3.98	0.08	103	
Cd	114	He	0.074	3.659	276	3.82	0.08	93	
Sb	121	He	0.202	10.821	729	9.19	0.2	101	
Sb	123	He	0.207	1.275	599	1.53	0.2	104	
Ba	135	He	0.250	16.555	126	15.56	0.2	125	
Ba	137	He	0.193	2.350	187	1.85	0.2	96	
Tl	203	He	0.092	4.775	871	4.44	0.08	114	
Tl	205	He	0.089	2.438	2105	1.28	0.08	112	
[Pb]	206	He	0.263	7.460	2021	6.33	0.2	131	
[Pb]	207	He	0.265	1.179	1783	0.19	0.2	133	
Pb	208	He	0.253	5.664	7819	4.54	0.2	126	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10637070	0.96	12521331	84.95	70	125	
Ge	72	He	168426	1.27	207726	81.08	70	125	
Ge	72	H2	2055589	1.69	2177262	94.41	70	125	
Rh	103	He	5972707	0.73	6761953	88.33	70	125	
In	115	He	1317809	0.60	1642329	80.24	70	125	
Lu	175	He	3435881	1.08	3701453	92.83	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	051_QC1.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:29:47-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.076	6.306	334	5.86	0.08	95	
V	51	He	0.735	2.001	2710	1.42	0.8	92	
Cr	52	He	0.820	5.518	4481	4.12	0.8	103	
Cr	53	He	0.765	11.906	531	10.07	0.8	96	
Mn	55	He	0.303	6.956	718	6.24	0.2	152	QC1 Main CR1 Failed
Co	59	He	0.079	12.571	770	11.26	0.08	98	
Ni	60	He	0.794	2.507	2236	1.78	0.8	99	
Ni	62	He	0.820	8.608	367	7.10	0.8	102	
Cu	63	He	0.488	6.422	3720	6.40	0.4	122	
Cu	65	He	0.480	4.436	1819	3.56	0.4	120	
Zn	66	He	2.418	3.469	2278	2.50	2	121	
As	75	He	1.817	3.606	931	4.14	2	91	
Se	77	H2	3.392	6.092	2268	1.58	4	85	
Se	78	H2	3.677	1.148	3660	1.67	4	92	
Mo	95	He	0.184	11.099	677	10.60	0.2	92	
Mo	97	He	0.173	22.968	432	22.80	0.2	87	
Mo	98	He	0.178	4.491	1148	3.20	0.2	89	
Ag	107	He	0.073	8.040	984	8.77	0.08	91	
Ag	109	He	0.078	6.670	1039	6.37	0.08	98	
Cd	111	He	0.071	9.807	107	9.68	0.08	89	
Cd	114	He	0.070	2.175	269	1.95	0.08	87	
Sb	121	He	0.204	8.250	734	7.09	0.2	102	
Sb	123	He	0.210	6.321	604	5.28	0.2	105	
Ba	135	He	0.251	19.578	126	18.07	0.2	125	
Ba	137	He	0.203	3.799	195	3.92	0.2	101	
Tl	203	He	0.092	12.109	866	10.42	0.08	115	
Tl	205	He	0.086	3.386	2017	3.29	0.08	107	
[Pb]	206	He	0.241	1.657	1850	1.47	0.2	120	
[Pb]	207	He	0.248	4.834	1661	3.68	0.2	124	
Pb	208	He	0.242	1.466	7440	1.21	0.2	121	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10759392	0.44	12521331	85.93	70	125	
Ge	72	He	161475	0.69	207726	77.73	70	125	
Ge	72	H2	2050517	1.39	2177262	94.18	70	125	
Rh	103	He	6168634	1.12	6761953	91.23	70	125	
In	115	He	1312087	0.65	1642329	79.89	70	125	
Lu	175	He	3404690	0.93	3701453	91.98	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	052_QC1.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:34:33-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	004CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

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QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.075	1.860	335	0.79	0.08	93	
V	51	He	0.733	8.240	2732	7.20	0.8	92	
Cr	52	He	0.763	3.322	4256	2.95	0.8	95	
Cr	53	He	0.728	6.460	514	4.31	0.8	91	
Mn	55	He	0.286	15.119	692	11.12	0.2	143	QC1 Main CR1 Failed
Co	59	He	0.084	15.618	828	14.57	0.08	105	
Ni	60	He	0.743	8.165	2128	8.24	0.8	93	
Ni	62	He	0.737	7.867	337	6.49	0.8	92	
Cu	63	He	0.468	8.211	3612	6.89	0.4	117	
Cu	65	He	0.466	1.702	1789	2.32	0.4	117	
Zn	66	He	2.447	1.250	2328	0.44	2	122	
As	75	He	1.881	1.204	973	1.60	2	94	
Se	77	H2	3.349	5.480	2261	2.52	4	84	
Se	78	H2	3.662	3.500	3655	4.62	4	92	
Mo	95	He	0.179	8.439	664	9.26	0.2	89	
Mo	97	He	0.186	10.952	468	11.76	0.2	93	
Mo	98	He	0.183	4.305	1188	4.46	0.2	91	
Ag	107	He	0.074	11.138	1013	12.57	0.08	93	
Ag	109	He	0.081	7.018	1086	5.29	0.08	102	
Cd	111	He	0.068	3.754	102	3.70	0.08	84	
Cd	114	He	0.073	7.888	284	6.09	0.08	92	
Sb	121	He	0.199	9.564	714	7.99	0.2	100	
Sb	123	He	0.198	10.267	572	9.51	0.2	99	
Ba	135	He	0.212	10.865	107	11.27	0.2	106	
Ba	137	He	0.236	15.486	223	13.22	0.2	118	
Tl	203	He	0.081	11.990	782	10.24	0.08	102	
Tl	205	He	0.080	2.695	1922	2.20	0.08	101	
[Pb]	206	He	0.229	3.649	1787	4.09	0.2	114	
[Pb]	207	He	0.254	2.241	1716	1.32	0.2	127	
Pb	208	He	0.245	1.037	7620	1.82	0.2	122	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10957787	2.49	12521331	87.51	70	125	
Ge	72	He	163178	1.14	207726	78.55	70	125	
Ge	72	H2	2055727	1.30	2177262	94.42	70	125	
Rh	103	He	6219279	1.69	6761953	91.97	70	125	
In	115	He	1303312	1.10	1642329	79.36	70	125	
Lu	175	He	3443589	1.08	3701453	93.03	70	125	

Sample Report

Sample Table

Sample Name	LLCCVS 1ppb
Data File Name	053SMPL.d
Data Path Name	D:\Data\Experiments\082015C1.b
Acq Date Time	2015-08-20T21:39:18-07:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	004CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.064	1.22	4372	0.02	
V	51	He	1.008	7.05	3753	0.03	
Cr	52	He	1.047	1.64	5660	0.02	
Cr	53	He	1.122	4.86	753	0.15	
Mn	55	He	1.123	1.63	2314	0.05	
Co	59	He	1.032	2.11	9556	0.01	
Ni	60	He	1.047	3.20	2935	0.04	
Ni	62	He	1.172	13.28	519	0.23	
Cu	63	He	1.137	1.00	8580	0.01	
Cu	65	He	1.148	1.49	4309	0.03	
Zn	66	He	1.170	10.03	1216	0.10	
As	75	He	1.041	0.26	547	0.19	
Se	77	H2	0.896	7.23	1449	0.06	
Se	78	H2	1.062	4.20	1047	0.10	
Mo	95	He	0.972	7.91	3517	0.03	
Mo	97	He	0.987	4.62	2387	0.04	
Mo	98	He	0.996	3.18	6223	0.02	
Ag	107	He	1.031	1.87	13547	0.01	
Ag	109	He	1.017	4.08	13114	0.01	
Cd	111	He	0.957	0.42	1391	0.07	
Cd	114	He	0.974	2.55	3612	0.03	
Sb	121	He	1.085	3.89	3344	0.03	
Sb	123	He	1.105	3.04	2742	0.04	
Ba	135	He	1.109	11.61	536	0.21	
Ba	137	He	1.111	6.96	994	0.11	
Tl	203	He	1.104	1.28	9860	0.01	
Tl	205	He	1.120	1.50	24226	0.00	
[Pb]	206	He	1.132	4.21	8186	0.01	
[Pb]	207	He	1.104	5.04	6979	0.02	
Pb	208	He	1.116	3.25	32277	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10757306	2.35	12521331	85.91	70	125	
Ge	72	He	164379	1.62	207726	79.13	70	125	
Ge	72	H2	2001039	1.11	2177262	91.91	70	125	
Rh	103	He	6178170	1.35	6761953	91.37	70	125	
In	115	He	1315653	0.69	1642329	80.11	70	125	
Lu	175	He	3457426	2.20	3701453	93.41	70	125	

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F022.D
Lab ID: K1508582-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 21:04
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV Dual
Surrogates	Decachlorobiphenyl	310	43	148	MR 08/27/15 ~~20~~ NARR
Above Highest ICAL Level	Aroclor 1016 {4}	5485.42	NA	5000	NARR
	Aroclor 1016 {5}	5357.41	NA	5000	
	Aroclor 1232 {4}	3949.09	NA	2000	
	Aroclor 1242 {4}	6595.94	NA	5000	
	Aroclor 1242 {5}	9189.80	NA	5000	

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:18
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F022.D
Lab ID: K1508582-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 21:04
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	=CVOC
	Aroclor 1260	22.7	NA	20	TCV Dual
Surrogates	Decachlorobiphenyl	154	43	148	~~RO~~ NARR
Above Highest ICAL Level	Aroclor 1016 {4}	4059.00	NA	2000	NARR
	Aroclor 1016 {5}	4975.99	NA	2000	
	Aroclor 1232 {5}	10800.59	NA	5000	
	Aroclor 1242 {4}	5560.26	NA	5000	
	Aroclor 1242 {5}	7323.15	NA	5000	
	Aroclor 1248	2513.11	NA	2000	
	Aroclor 1248 {3}	2995.86	NA	2000	
	Aroclor 1248 {4}	3508.04	NA	2000	
	Aroclor 1248 {5}	4289.97	NA	2000	

Primary Review: MMR 05/27/15

Secondary Review:

Printed: 08/27/2015 15:47:22
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D			**Vial:**	21
Acqu Date:	08/26/2015 21:04	**Quant Date:**	08/28/2015 11:42	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/05/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	K1508582
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458715	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.27 0.00	13.63 0.00	9078467m	1878226m	57.41	22.81				114 OK
			%Recovery =		287 *	114 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D			**Vial:**	21
Acqu Date:	08/26/2015 21:04	**Quant Date:**	08/28/2015 11:42	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.94	4.95	18022062	971235	3,846	779.50	2700D	540D	
Aroclor 1248			0	0	3,530	2,069	2400D	1400D	NR
Aroclor 1248 {2}	5.29	5.51	14358518	2558871	3,293	992.19	2300D	690D	
Aroclor 1248 {3}	5.68	5.92	23851032	8909576	3,712	2,996	2600D	2100ED	
Aroclor 1248 {4}	5.88	6.36	15589479	8415708	3,175	3,508	2200D	2400ED	
Aroclor 1248 {5}	6.29	7.06	16777432	0	3,623	0.0000	2500D	11U	
Aroclor 1254 {1}	6.25	6.72	11186925	12557389	2,875	3,417	2000D	2400D	
Aroclor 1254			0	0	2,698	3,036	1900D	2100D	**1900D**
Aroclor 1254 {2}	6.68	7.06	19136865	0	2,637	0.0000	1800D	11U	
Aroclor 1254 {3}	6.84	7.16	36480772	5181173	2,493	2,675	1700D	1900D	
Aroclor 1254 {4}	7.18	8.01	21697026	6043319	2,268	2,668	1600D	1800D	
Aroclor 1254 {5}	7.78	8.77	20369844	10618417	3,217	3,384	2200D	2300D	
Aroclor 1260 {1}	7.08 0.00	7.83 -0.01	16314879m	2641147m	1,656	1,197	1100D	830D	
Aroclor 1260			0	0	1,531	1,618	1100D	1100D	**1100D**
Aroclor 1260 {2}	8.10 0.00	9.27 0.00	12903401m	5811739m	1,590	1,538	1100D	1100D	
Aroclor 1260 {3}	8.65 0.00	9.72 0.00	10773222m	4960808m	1,309	1,375	910D	950D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	26232398m	17599824m	1,395	2,038	970D	1400D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	24181155m	10846453m	1,704	1,942	1200D	1300D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0864 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Report Date: 28-Aug-2015 11:42

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Inj Date : 26-AUG-2015 21:04
Sample Info: K1508582-001 5X
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	3970447	1392200	22.4	17.7		100.00
Aroclor 1248	4.938	4.951	18022062	971235	3850	779	80.00- 120.00	100.00
	5.291	5.511	14358518	2558871	3290	992	17.18- 25.77	79.67
	5.681	5.921	23851032	8909576	3710	3000	19.47- 29.21	132.34
	5.875	6.355	15589479	8415708	3170	3510	3.05- 4.58	86.50
	6.285	7.055	16777432		3620		0.69- 1.04	93.09
		Average of Peak Amounts =			3530	2070		
Aroclor 1254	6.248	6.715	11186925	12557389	2880	3420	80.00- 120.00	100.00
	6.681	7.055	19136865		2640		1017.66-1526.49	171.06
	6.838	7.158	36480772	5181173	2490	2670	9646.23-14469.35	326.10
	7.175	8.011	21697026	6043319	2270	2670	1126.72-1690.08	193.95
	7.781	8.765	20369844	10618417	3220	3380	281.12- 421.67	182.09
		Average of Peak Amounts =			2700	3040		
Aroclor 1260	7.078	7.831	16314879	2641147	1660	1200	80.00- 120.00	100.00(M)
	8.095	9.271	12903401	5811739	1590	1540	70.14- 105.21	79.09(M)
	8.648	9.718	10773222	4960808	1310	1370	70.66- 105.99	66.03(M)
	9.111	10.398	26232398	17599824	1400	2040	162.95- 244.43	160.79(M)
	9.898	11.025	24181155	10846453	1700	1940	126.35- 189.53	148.22(M)
		Average of Peak Amounts =			1530	1620		
Decachlorobiphenyl	12.265	13.625	9078467	1878226	57.4	22.8		100.00(M)
Aroclors, Total	0.000	0.000	57575002	22185916	7760	6720		0.00

QC Flag Legend

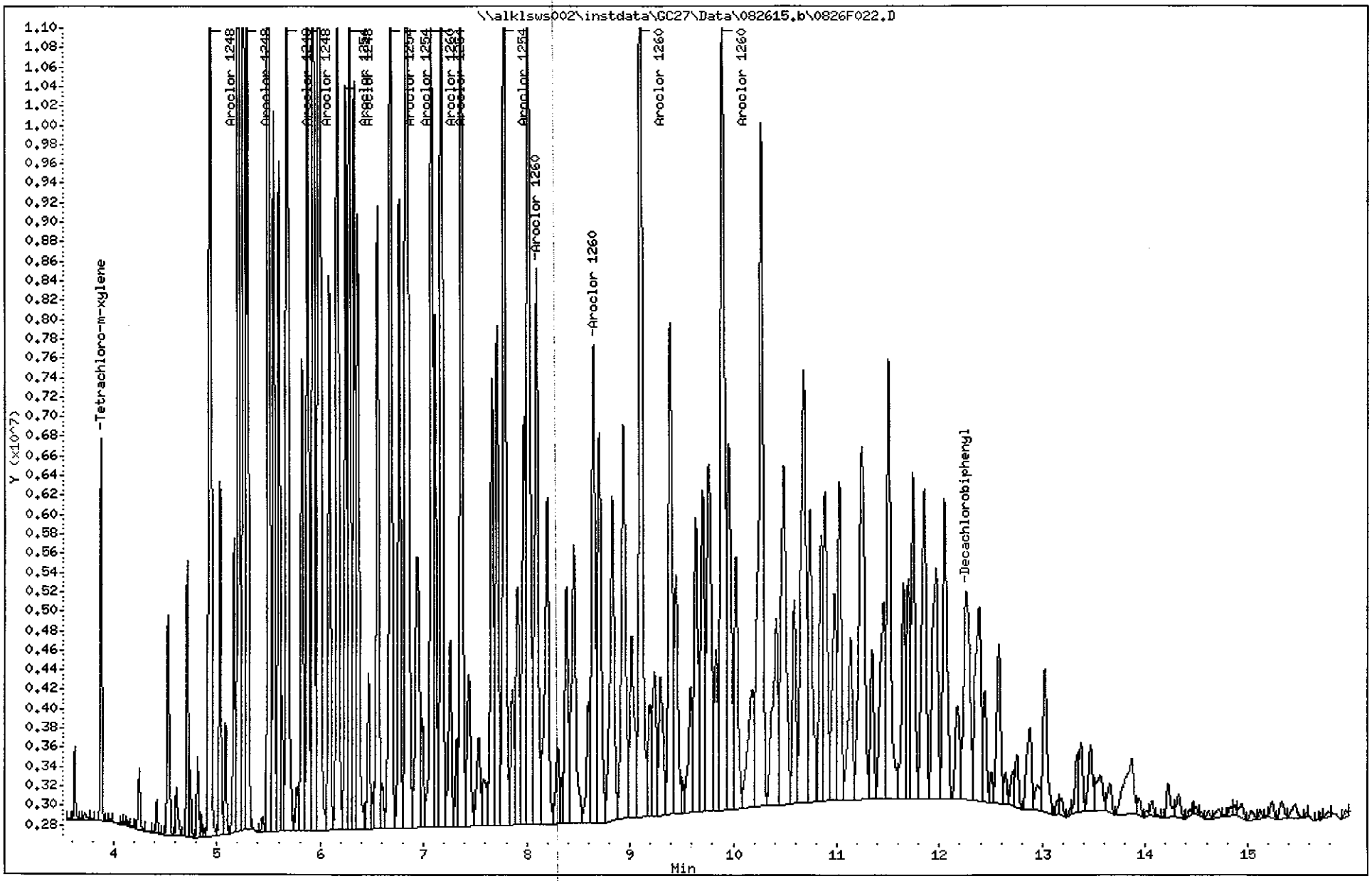
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Date : 26-AUG-2015 21:04
Client ID:
Sample Info: K1508582-001 5X

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

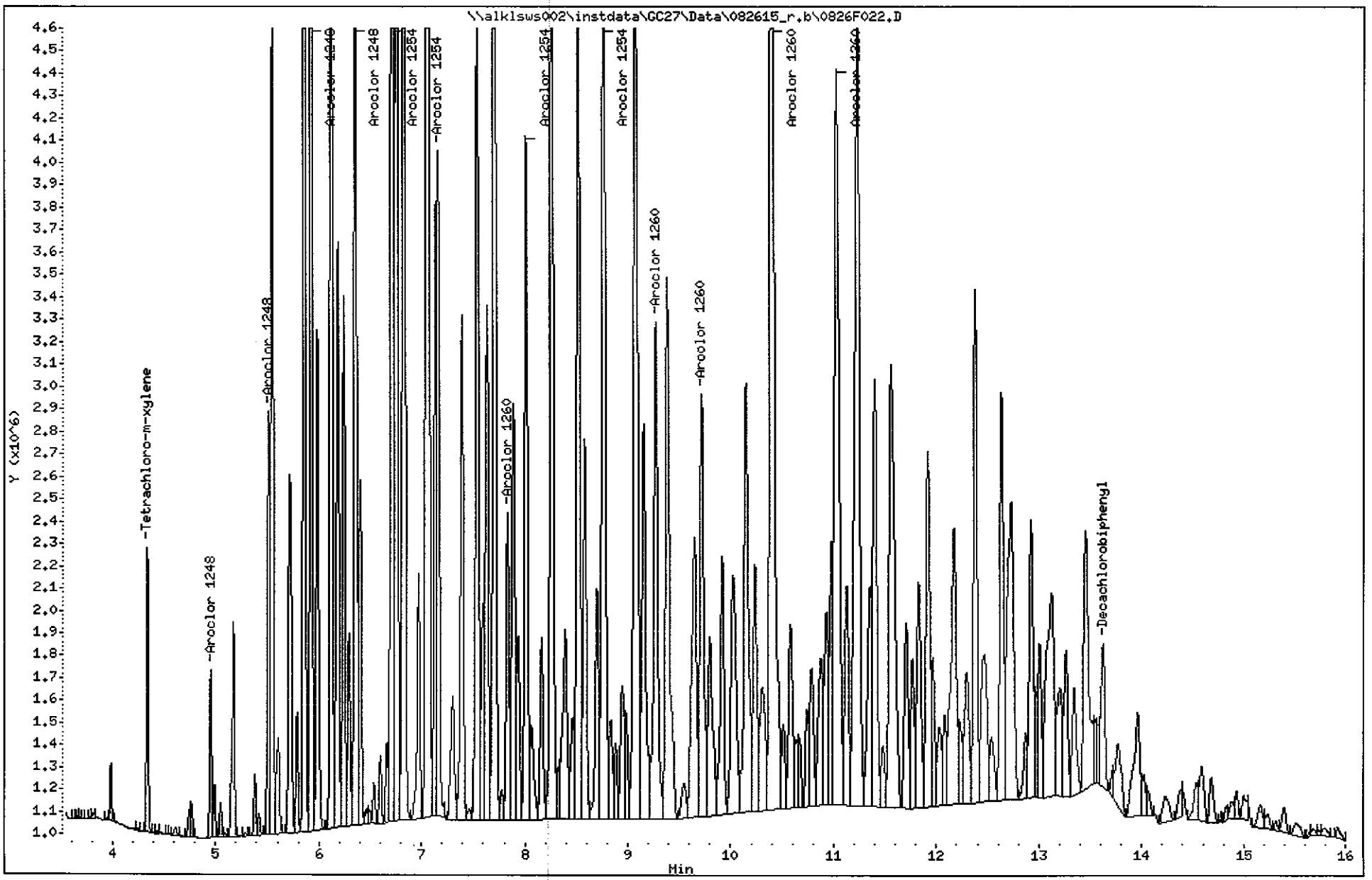


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Date : 26-AUG-2015 21:04
Client ID:
Sample Info: K1508582-001 5X

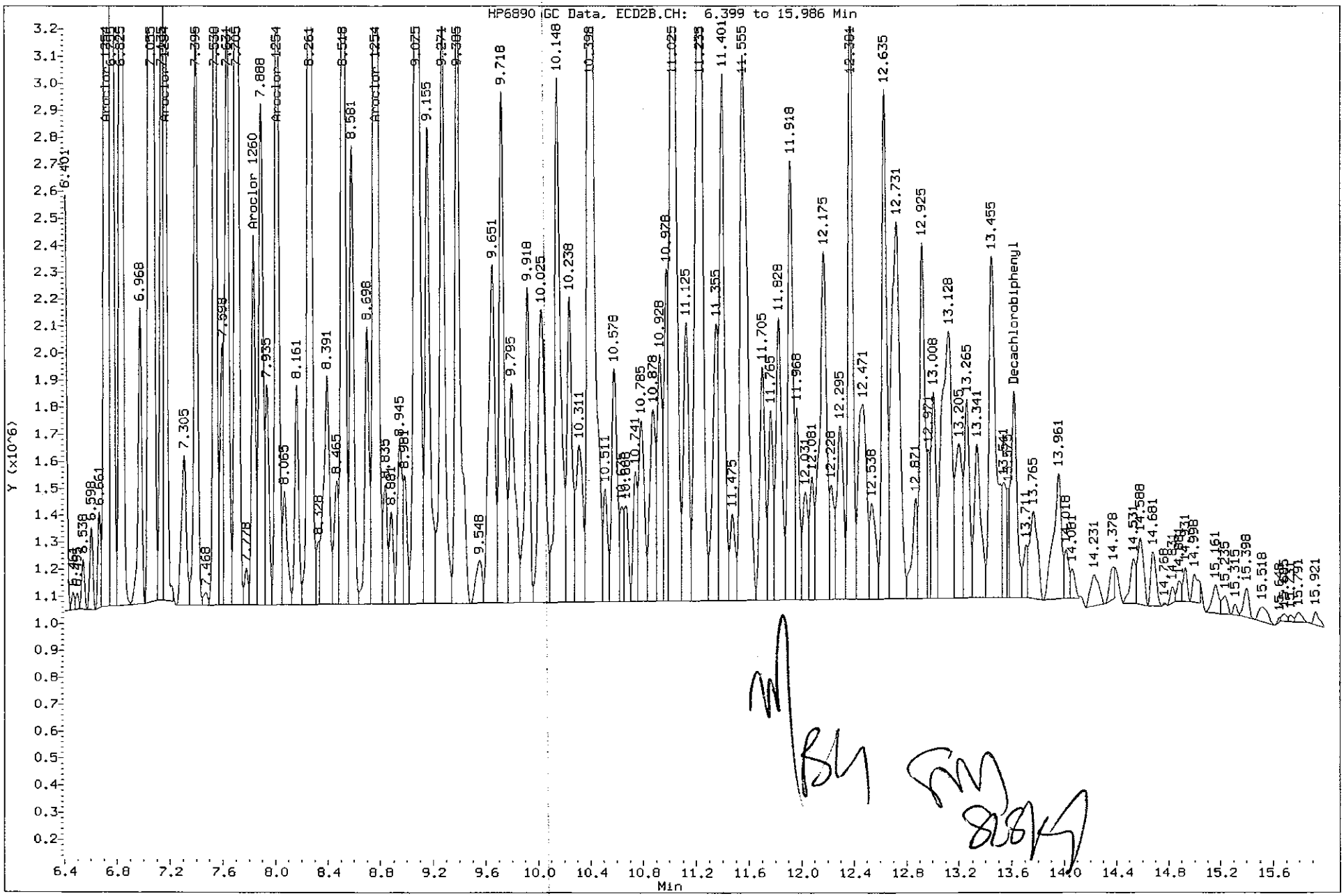
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



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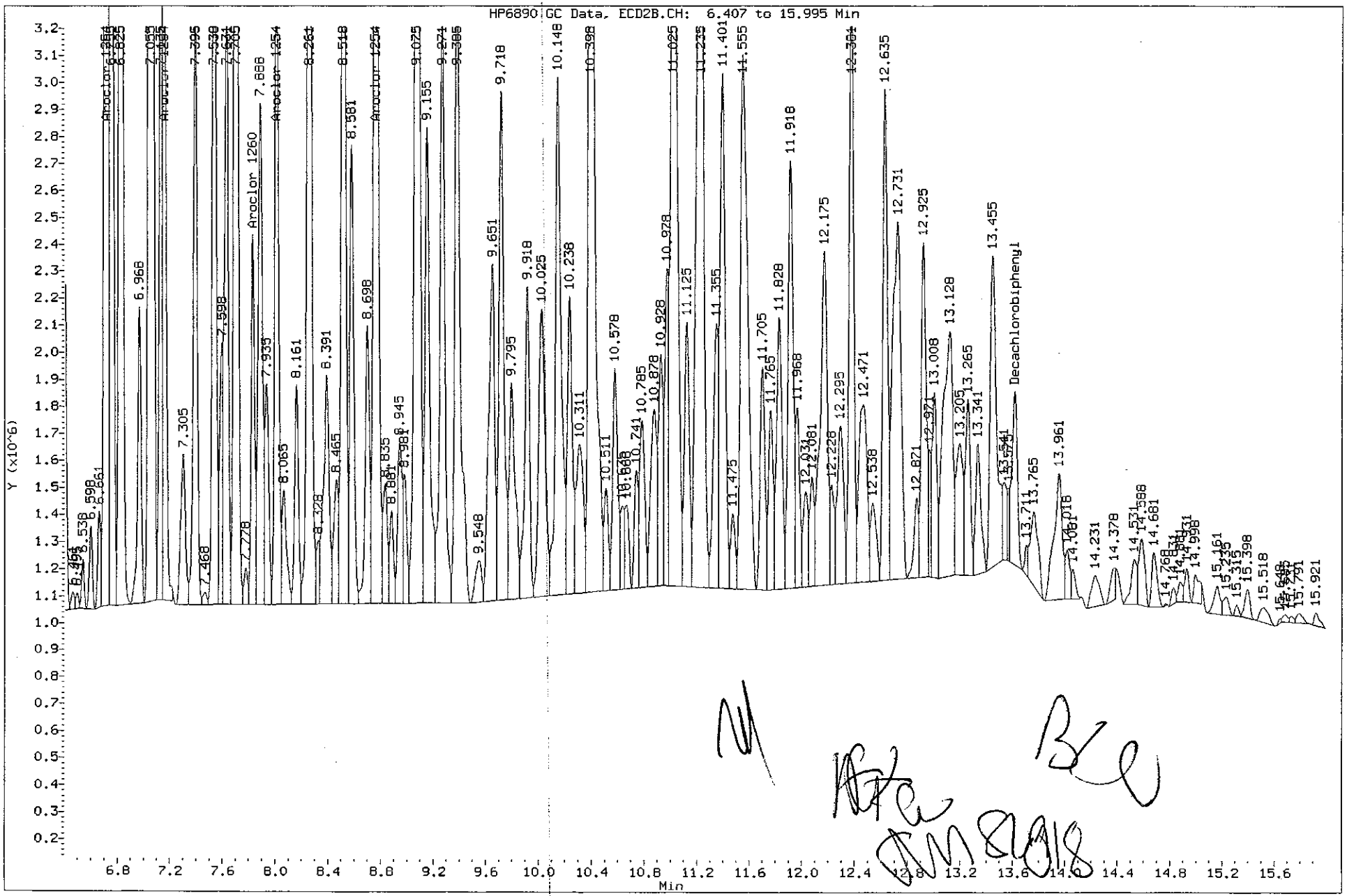
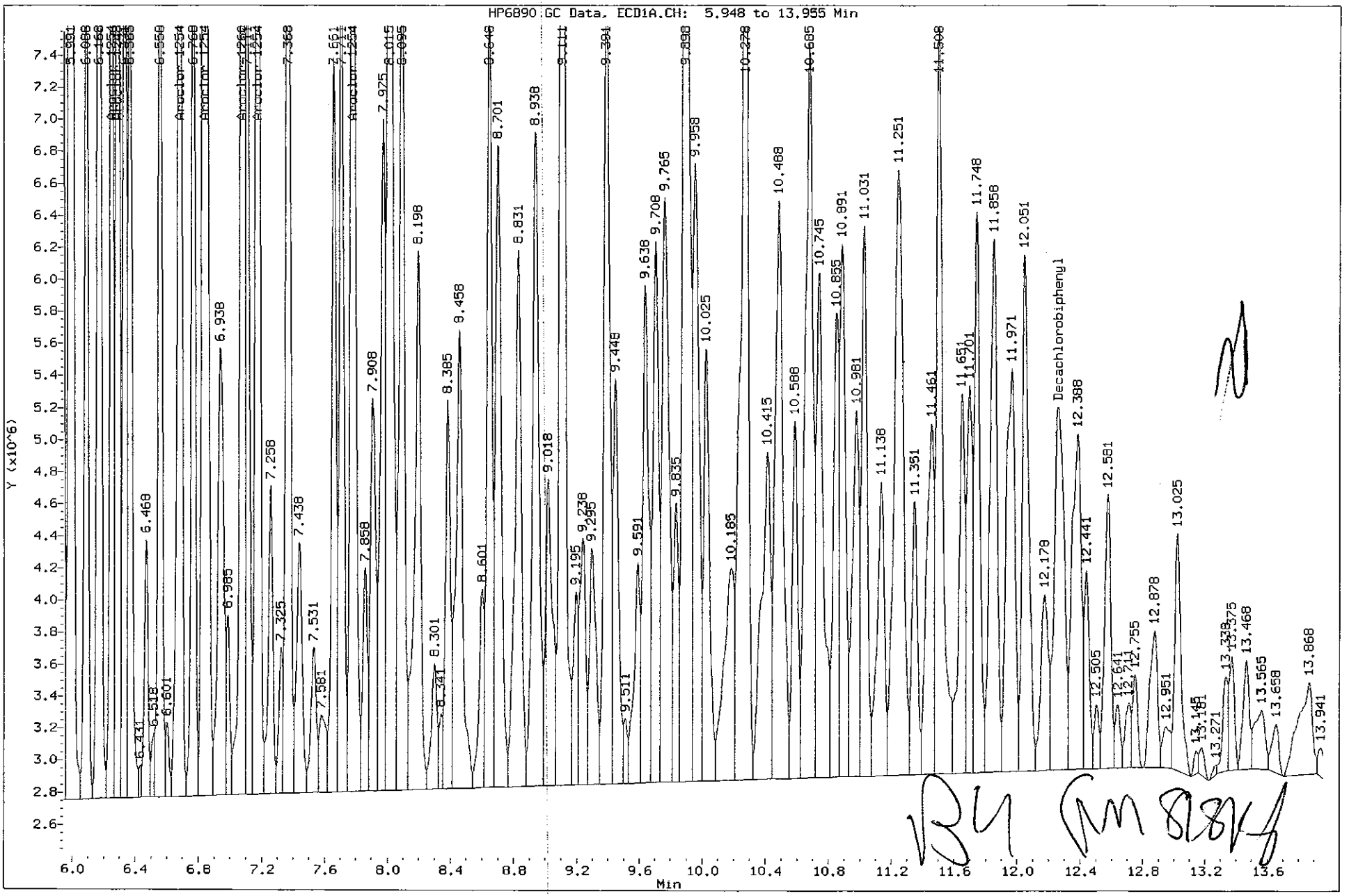
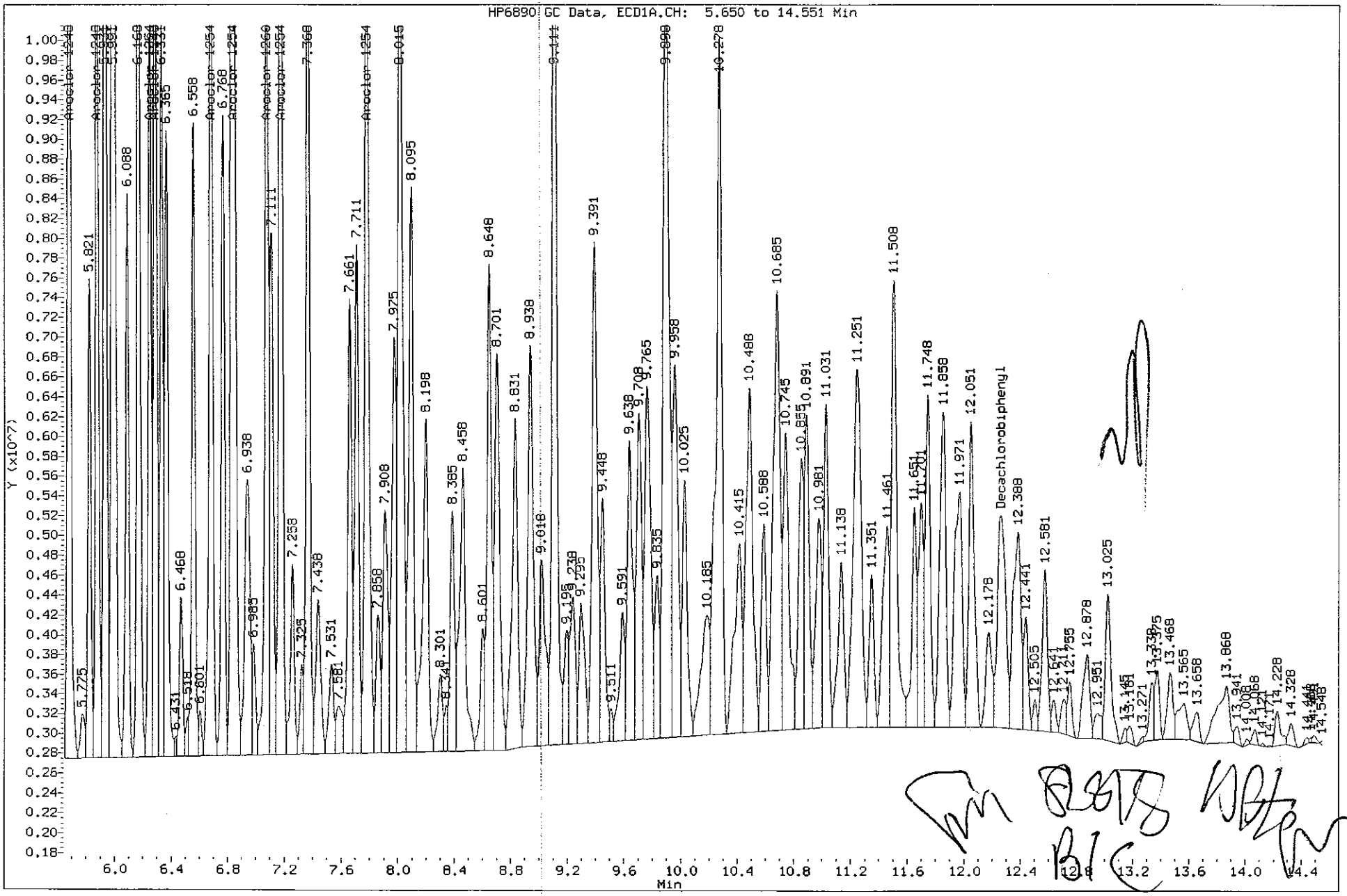
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F006.D	**Date Acquired:**	08/28/2015 14:37
Lab ID:	K1508582-001	**Date Quantitated:**	08/29/2015 18:33
RunType:	SMPL	**Batch ID:**	KWG1508233
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK
Surrogates	Decachlorobiphenyl	264	43	148	RO

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:00
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F006.D	**Date Acquired:**	08/28/2015 14:37
Lab ID:	K1508582-001	**Date Quantitated:**	08/29/2015 18:33
RunType:	SMPL	**Batch ID:**	KWG1508233
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D			**Vial:**	4
Acqu Date:	08/28/2015 14:37	**Quant Date:**	08/30/2015 15:55	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/05/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508233	**Prep Lot:**	KWG1507646	**Report Group:**	K1508582
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458715	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respc #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.27	-0.01	13.63	-0.02	2083675	518700	13.18	6.30				NR
						%Recovery =	264 *	126	OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1221 {2}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	42U	42U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D			**Vial:**	4
Acqu Date:	08/28/2015 14:37	**Quant Date:**	08/30/2015 15:55	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1248 {1}	4.94	4.96	3911943m	260666	834.92	209.21	2300D	580D	RPD
Aroclor 1248			0	0	994.43	744.33	2800D	2100D	2100D
Aroclor 1248 {2}	5.30	5.52	4297151m	768239	985.39	297.88	2700D	830D	RPD
Aroclor 1248 {3}	5.69	5.93	7064292m	2677240	1,099	900.23	3000D	2500D	
Aroclor 1248 {4}	5.88	6.36	4721119m	2441743	961.47	1,018	2700D	2800D	
Aroclor 1248 {5}	6.29	7.06	5051785m	5532363	1,091	1,297	3000D	3600D	
Aroclor 1254 {1}	6.26	6.72	3488896	3788872	896.79	1,031	2500D	2900D	
Aroclor 1254			0	0	809.27	910.42	2200D	2500D	NR
Aroclor 1254 {2}	6.69	7.06	5682471	5532363	782.98	954.97	2200D	2600D	
Aroclor 1254 {3}	6.84	7.17	10973045	1616691	749.80	834.58	2100D	2300D	
Aroclor 1254 {4}	7.18	8.02	6546508	1797813	684.38	793.56	1900D	2200D	
Aroclor 1254 {5}	7.79	8.78	5903650	2943054	932.40	937.91	2600D	2600D	
Aroclor 1260 {1}	7.09 -0.01	7.84 -0.01	4920590	726302	499.52	329.26	1400D	910D	
Aroclor 1260			0	0	435.09	421.02	1200D	1200D	NR
Aroclor 1260 {2}	8.10 -0.01	9.28 -0.01	3721624	1477882	458.68	390.99	1300D	1100D	
Aroclor 1260 {3}	8.66 -0.01	9.73 -0.01	3046135	1248249	370.08	345.89	1000D	960D	
Aroclor 1260 {4}	9.12 -0.01	10.41 -0.01	7271737	4741772	386.82	549.17	1100D	1500D	
Aroclor 1260 {5}	9.91 -0.02	11.04 -0.02	6530611	2735582	460.33	489.78	1300D	1400D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1262			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1268			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	42U	42U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0864 g	**Dilution:**	20.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
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E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D
Inj Date : 28-AUG-2015 14:37
Sample Info: K1508582-001 20X
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.885	4.342	1154171	376886	6.52	4.79		100.00
Aroclor 1248	4.942	4.959	3911943	260666	835	209	80.00- 120.00	100.00(M)
	5.299	5.522	4297151	768239	985	298	17.18- 25.77	81.47(M)
	5.685	5.929	7064292	2677240	1100	900	19.47- 29.21	133.93(M)
	5.882	6.362	4721119	2441743	961	1020	3.05- 4.58	89.51(M)
	6.292	7.062	5051785	5532363	1090	1300	0.69- 1.04	95.78(M)
		Average of Peak Amounts =			994	745		
Aroclor 1254	6.255	6.722	3488896	3788872	897	1030	80.00- 120.00	100.00
	6.689	7.062	5682471	5532363	783	955	1017.66-1526.49	162.87
	6.842	7.165	10973045	1616691	750	835	9646.23-14469.35	314.51
	7.182	8.022	6546508	1797813	684	794	1126.72-1690.08	187.64
	7.792	8.775	5903650	2943054	932	938	281.12- 421.67	169.21
		Average of Peak Amounts =			809	910		
Aroclor 1260	7.085	7.842	4920590	726302	500	329	80.00- 120.00	100.00(H)
	8.102	9.279	3721624	1477882	459	391	70.49- 105.74	75.63(H)
	8.655	9.729	3046135	1248249	370	346	71.38- 107.06	61.91(H)
	9.119	10.409	7271737	4741772	387	549	164.52- 246.79	147.78(H)
	9.905	11.035	6530611	2735582	460	490	127.82- 191.73	132.72(H)
		Average of Peak Amounts =			435	421		
Decachlorobiphenyl	12.272	13.632	2083675	518700	13.2	6.30		100.00
Aroclors, Total	0.000	0.000	16626311	7657766	2240	2080		0.00

QC Flag Legend

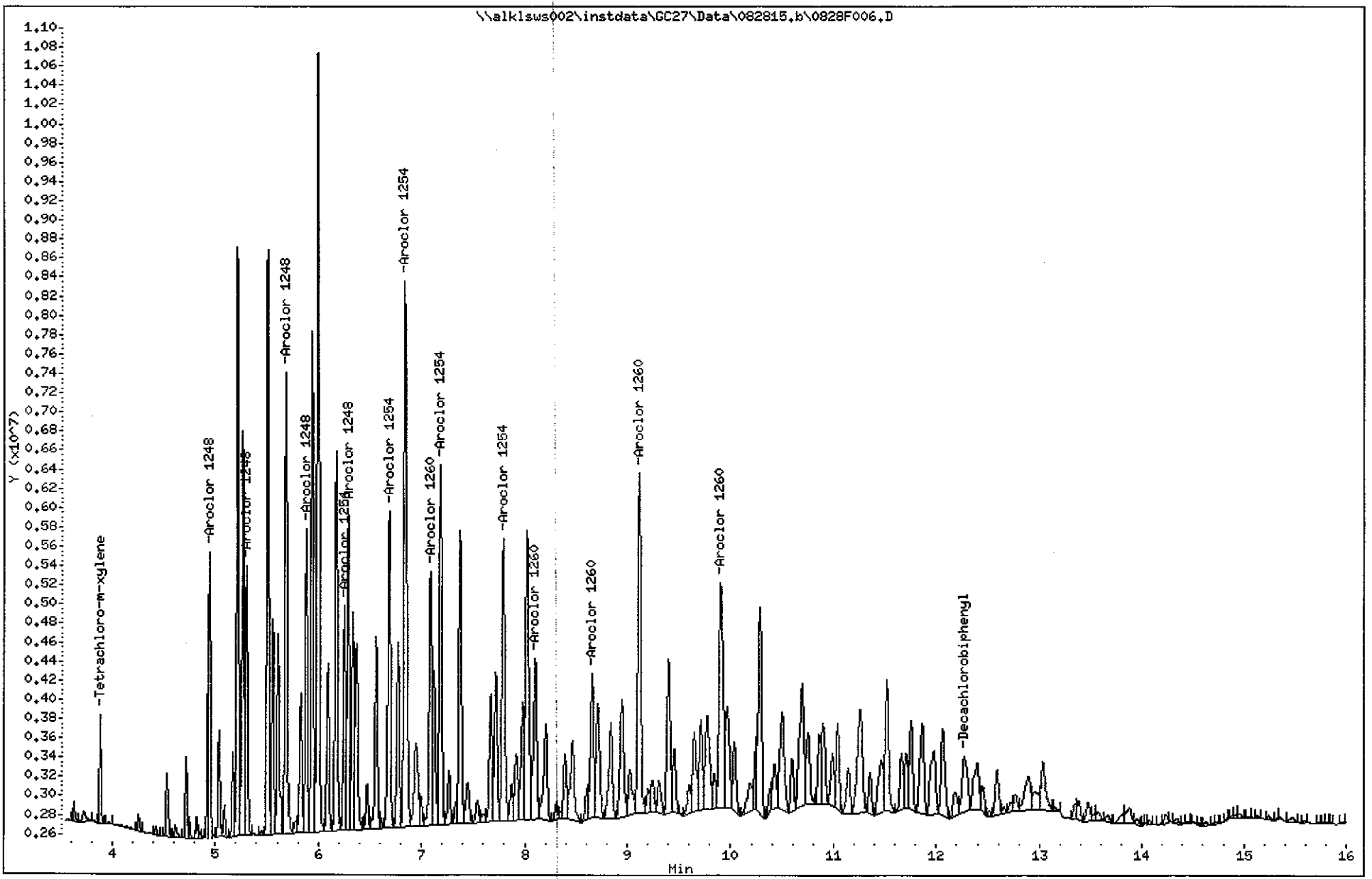
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Date : 28-AUG-2015 14:37
Client ID:
Sample Info: K1508582-001 20X

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

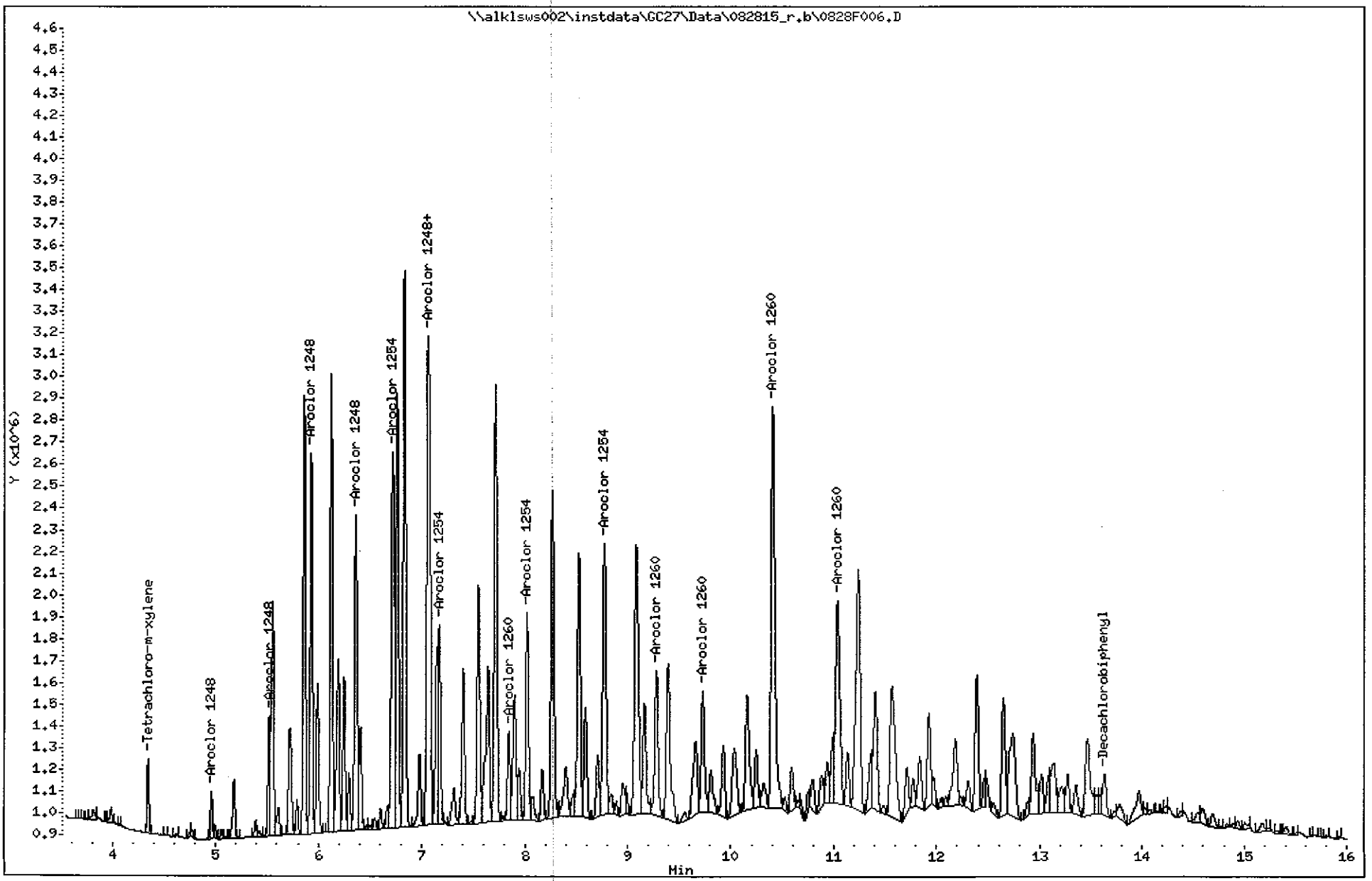


Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D
Date : 28-AUG-2015 14:37
Client ID:
Sample Info: K1508582-001 20X

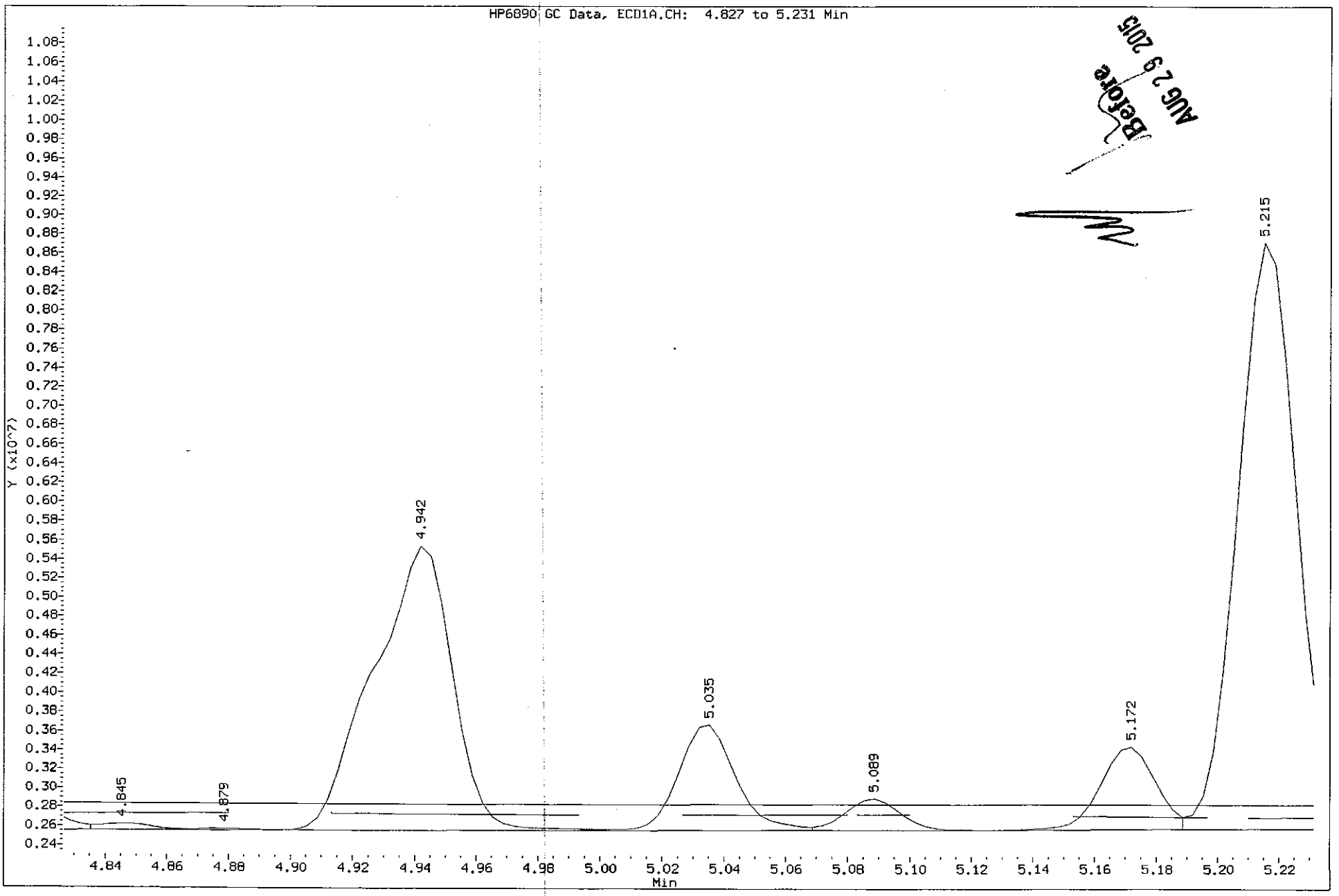
Column phase: DB-XLB

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

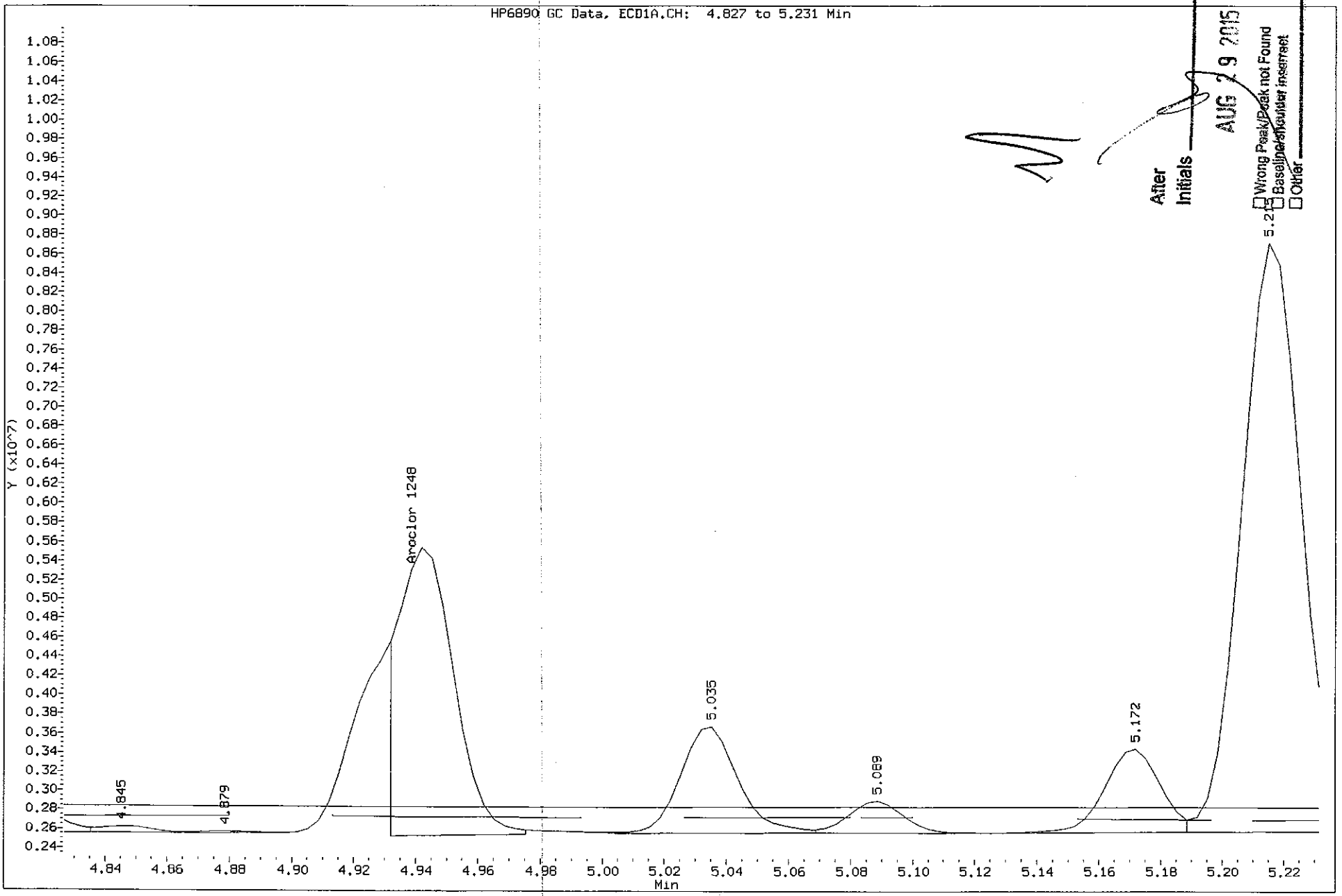


Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Injection Date: 28-AUG-2015 14:37
Instrument: GC27.i
Client Sample ID:



Before
AUG 29 2015

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Injection Date: 28-AUG-2015 14:37
Instrument: GC27.i
Client Sample ID:



After
Initials

AUG 29 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/Counter incorrect
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	NR

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:59
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TOV ok
	Aroclor 1260	22.7	NA	20	TOV Qual

Primary Review: mR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:52:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458723	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	14786695	5511595	83.53 CCV	70.07			70 OK
			%Recovery =		84 OK	70 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 +0.00	13.63 +0.00	13992543	6978725	88.49	84.75			88 OK
			%Recovery =		88 OK	85 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.441 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Inj Date : 25-AUG-2015 13:01
Sample Info: KWG1507646-4 MB
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

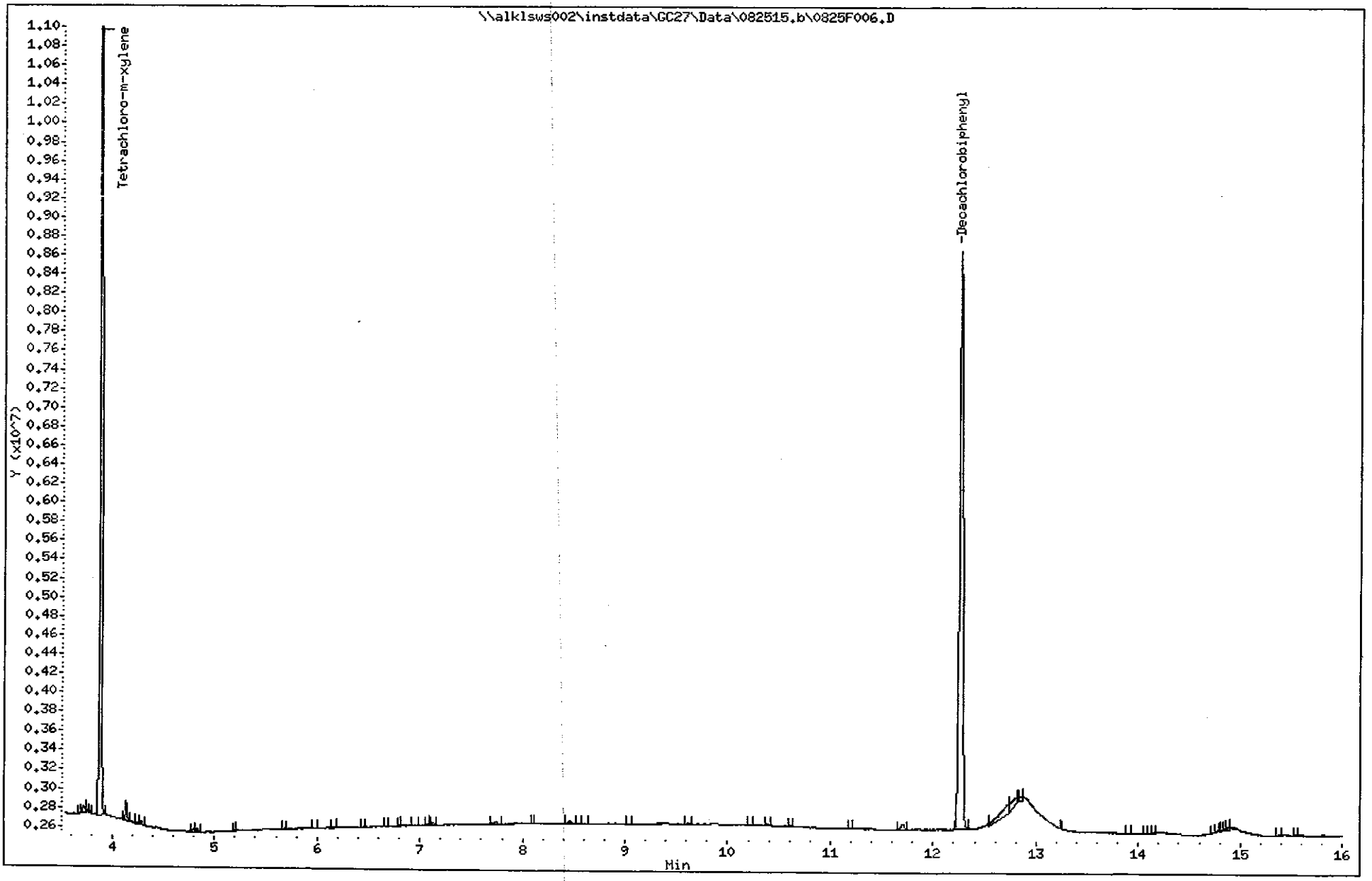
Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.338	14786695	5511595	83.5	70.1		100.00
Decachlorobiphenyl	12.262	13.625	13992543	6978725	88.5	84.7		100.00

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

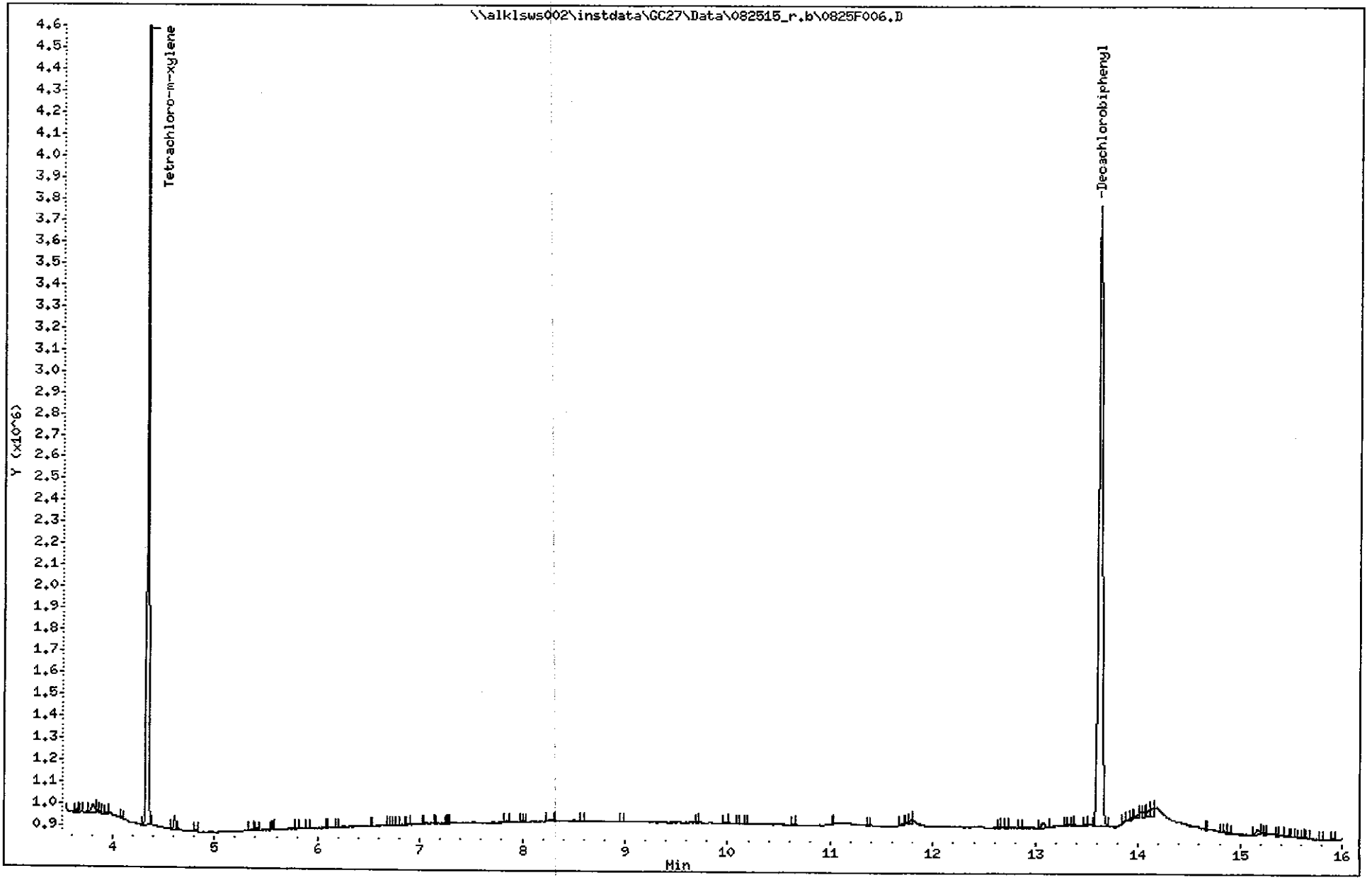
Operator: MR
Column phase: DB-35MS
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

Operator: MR
Column phase: DB-XLB
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F023.D
Lab ID: KWG1507646-1 -- K1508582-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/26/2015 21:28
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK
Surrogates	Decachlorobiphenyl	248	43	148	RO
Above Highest ICAL Level	Aroclor 1232 {4}	3622.49	NA	2000	MARS
	Aroclor 1242 {4}	5713.14	NA	5000	↓
	Aroclor 1242 {5}	7940.82	NA	5000	↓

Primary Review: MB 08/27/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F023.D
Lab ID: KWG1507646-1 -- K1508582-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/26/2015 21:28
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OL
	Aroclor 1260	22.7	NA	20	ICV Dual
Above Highest ICAL Level	Aroclor 1016 {4}	3534.11	NA	2000	MRL
	Aroclor 1016 {5}	4285.80	NA	2000	
	Aroclor 1232 {5}	9403.89	NA	5000	
	Aroclor 1242 {5}	6246.36	NA	5000	
	Aroclor 1248	2244.11	NA	2000	
	Aroclor 1248 {3}	2608.44	NA	2000	
	Aroclor 1248 {4}	3060.99	NA	2000	
	Aroclor 1248 {5}	3726.80	NA	2000	

Primary Review: MMC 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:31
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458720	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	3777679	1304465	21.34		16.59				107	OK
						%Recovery =	107	OK	83	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	-0.01	13.62	-0.01	7853685	1726384m	49.67		20.96				105	OK
						%Recovery =	248	*	105	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	662.54	286.78	459D	199D	199PD
Aroclor 1016 {1}	4.24	+0.00	4.62	0.00	1495008m	350787m	416.56	190.84	288D	132D	
Aroclor 1016 {2}	4.74	0.00	4.95	0.00	1196111m	1022188m	399.22	419.86	276D	291D	
Aroclor 1016 {3}	4.94	0.00	5.59	0.00	11590876m	748707m	1,172	249.63	812D	173D	RPD
Aroclor 1016 {4}	5.21	0.00	5.92	+0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1221					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242					0	0	0.0000	0.0000	11U	11U	11U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclors, Total			23599269	8883345	2,273	1,910	1570JD	1320JD	**1570JD**
Aroclor 1260			0	0	1,610	1,623	1120D	1120D	**1120D**
Aroclor 1260 {1}	7.08 0.00	7.83 0.00	16897915	2751655	1,715	1,247	1190D	864D	
Aroclor 1260 {2}	8.09 -0.01	9.27 0.00	13137493	6060408	1,619	1,603	1120D	1110D	
Aroclor 1260 {3}	8.65 0.00	9.72 0.00	13023048	5083580	1,582	1,409	1100D	975D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	27183483	15418639	1,446	1,786	1000D	1240D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	23951082	11566307	1,688	2,071	1170D	1430D	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.1159 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Report Date: 28-Aug-2015 11:52

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Inj Date : 26-AUG-2015 21:28
Sample Info: K1508582-001 5X MS
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	3777679	1304465	21.3	16.6		100.00
Aroclor 1016	4.241	4.618	1495008	350787	417	191	80.00- 120.00	100.00(M)
	4.741	4.954	1196111	1022188	399	420	67.58- 101.37	80.01(M)
	4.937	5.591	11590876	748707	1170	250	323.28- 484.93	775.31(M)
	5.211	5.924					94.62- 141.94	0.00(M)
	5.501	6.118					92.33- 138.50	0.00(M)
		Average of Peak Amounts =			662	287		
Aroclor 1260	7.077	7.834	16897915	2751655	1720	1250	80.00- 120.00	100.00
	8.094	9.271	13137493	6060408	1620	1600	70.14- 105.21	77.75
	8.647	9.718	13023048	5083580	1580	1410	70.66- 105.99	77.07
	9.111	10.398	27183483	15418639	1450	1790	162.95- 244.43	160.87
	9.897	11.028	23951082	11566307	1690	2070	126.35- 189.53	141.74
		Average of Peak Amounts =			1610	1620		
Decachlorobiphenyl	12.261	13.624	7853685	1726384	49.7	21.0		100.00
Aroclors, Total	0.000	0.000	23599269	8883345	2270	1910		100.00

QC Flag Legend

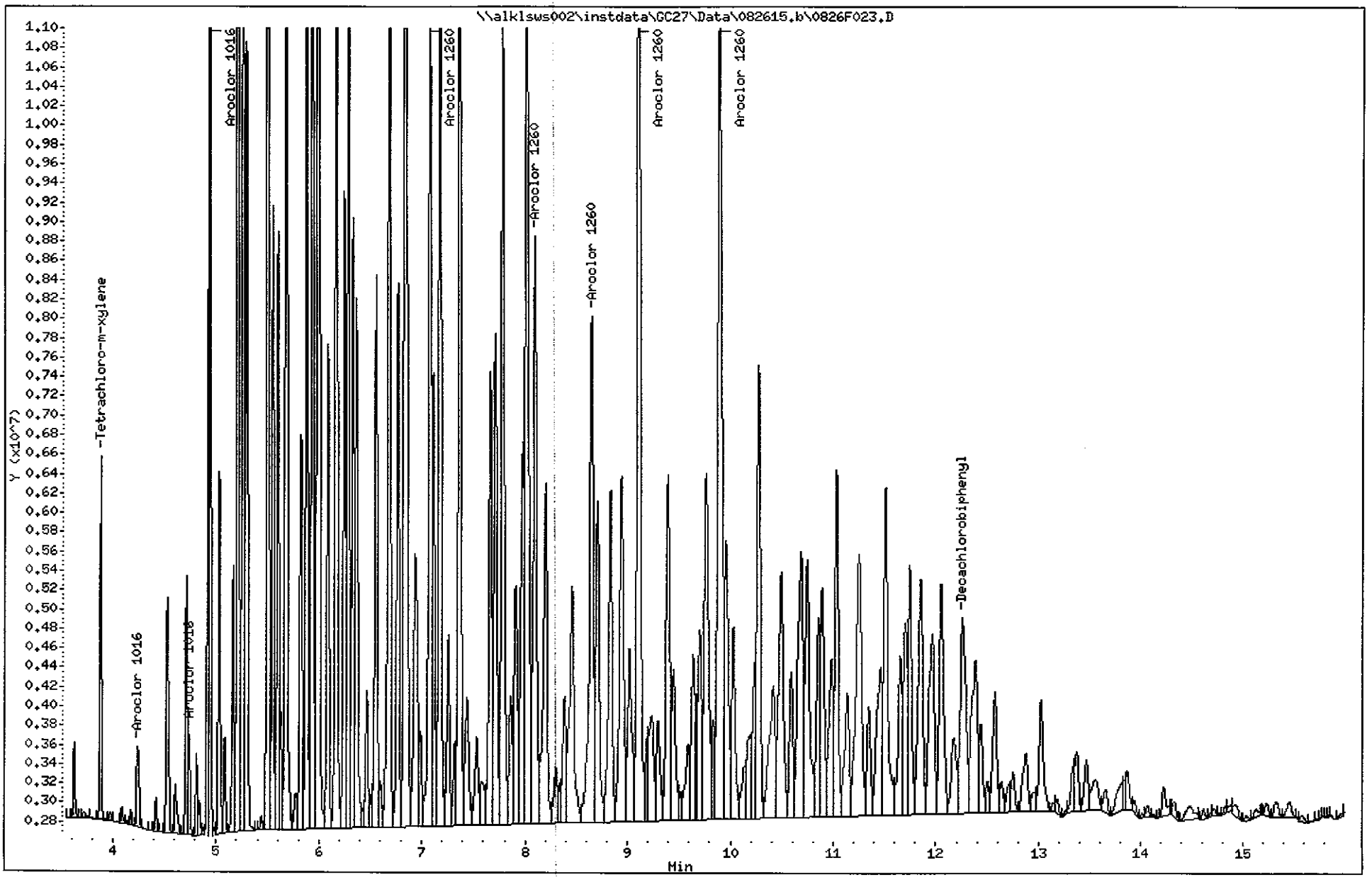
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Date : 26-AUG-2015 21:28
Client ID:
Sample Info: K1508582-001 5X MS

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

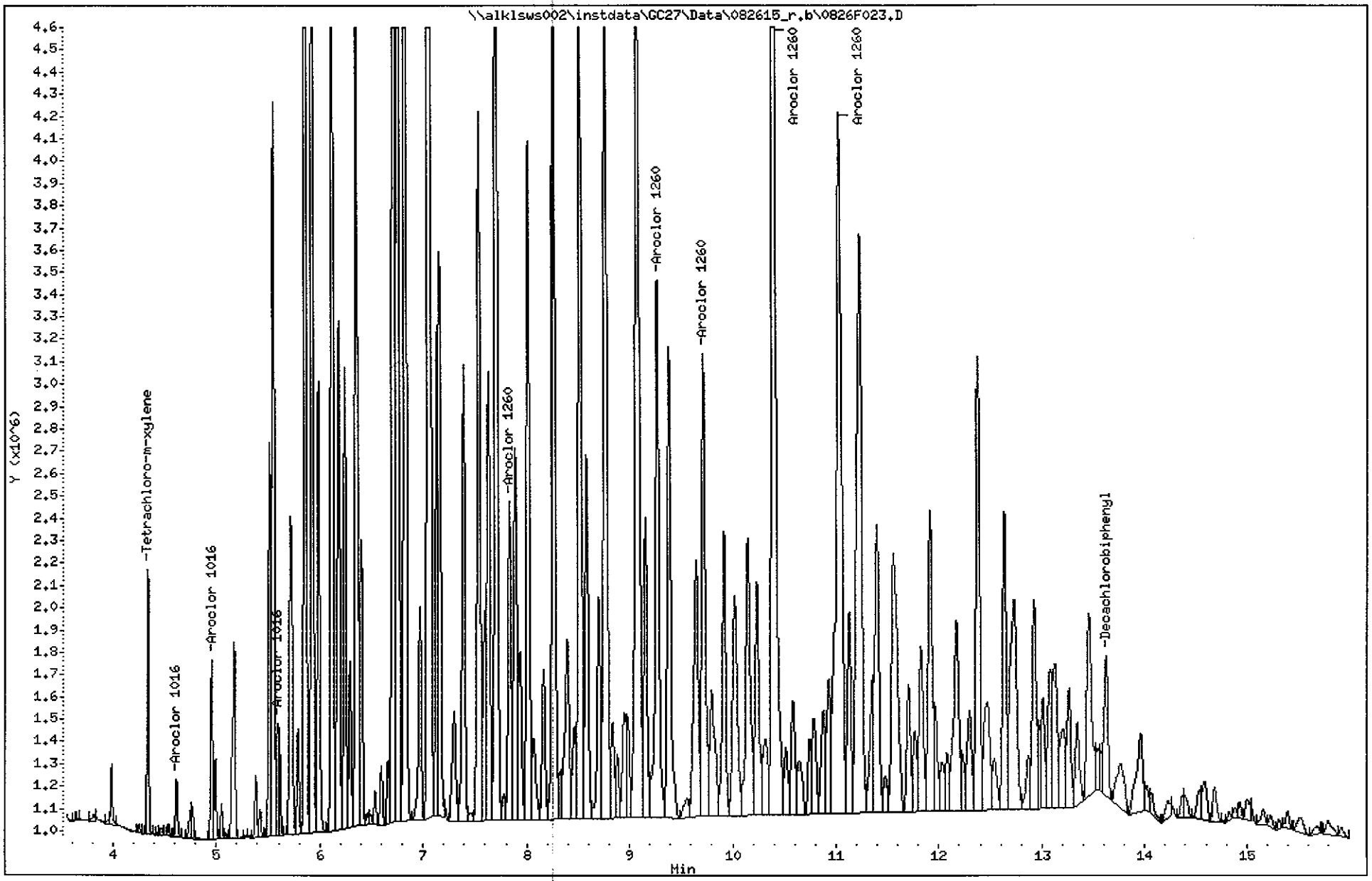


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Date : 26-AUG-2015 21:28
Client ID:
Sample Info: K1508582-001 5X MS

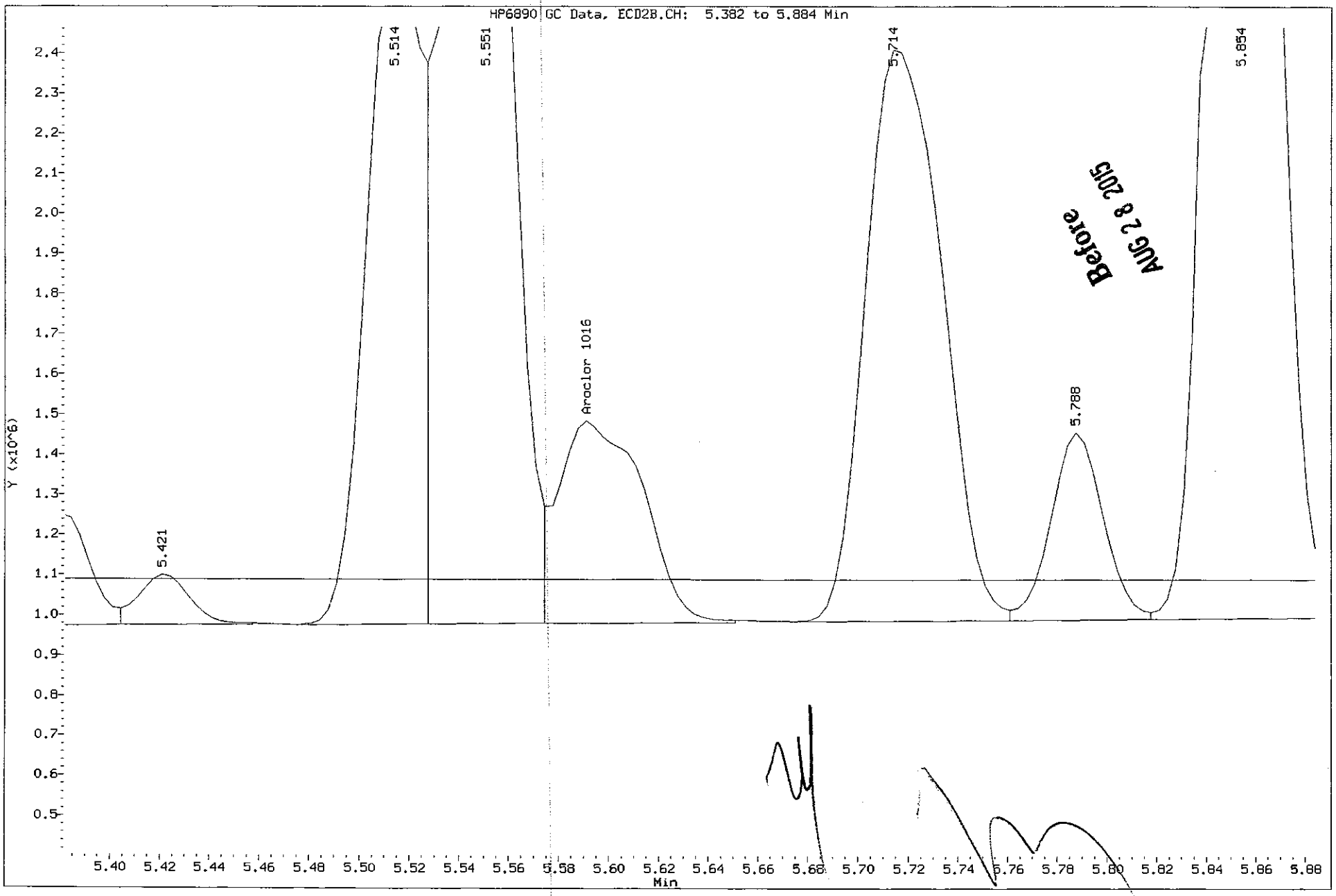
Column phase: DB-XLB

Instrument: GC27.i

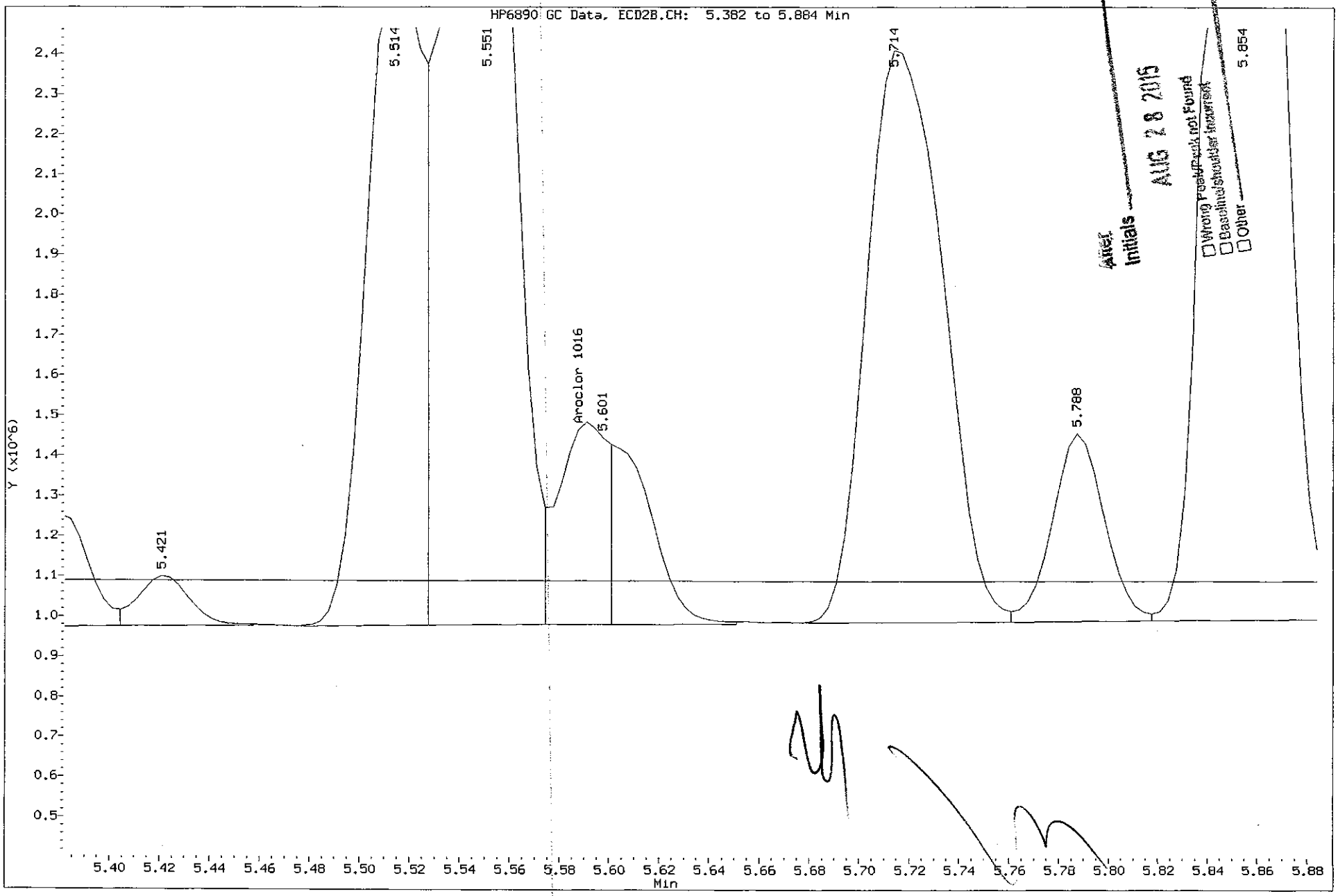
Operator: HR
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:

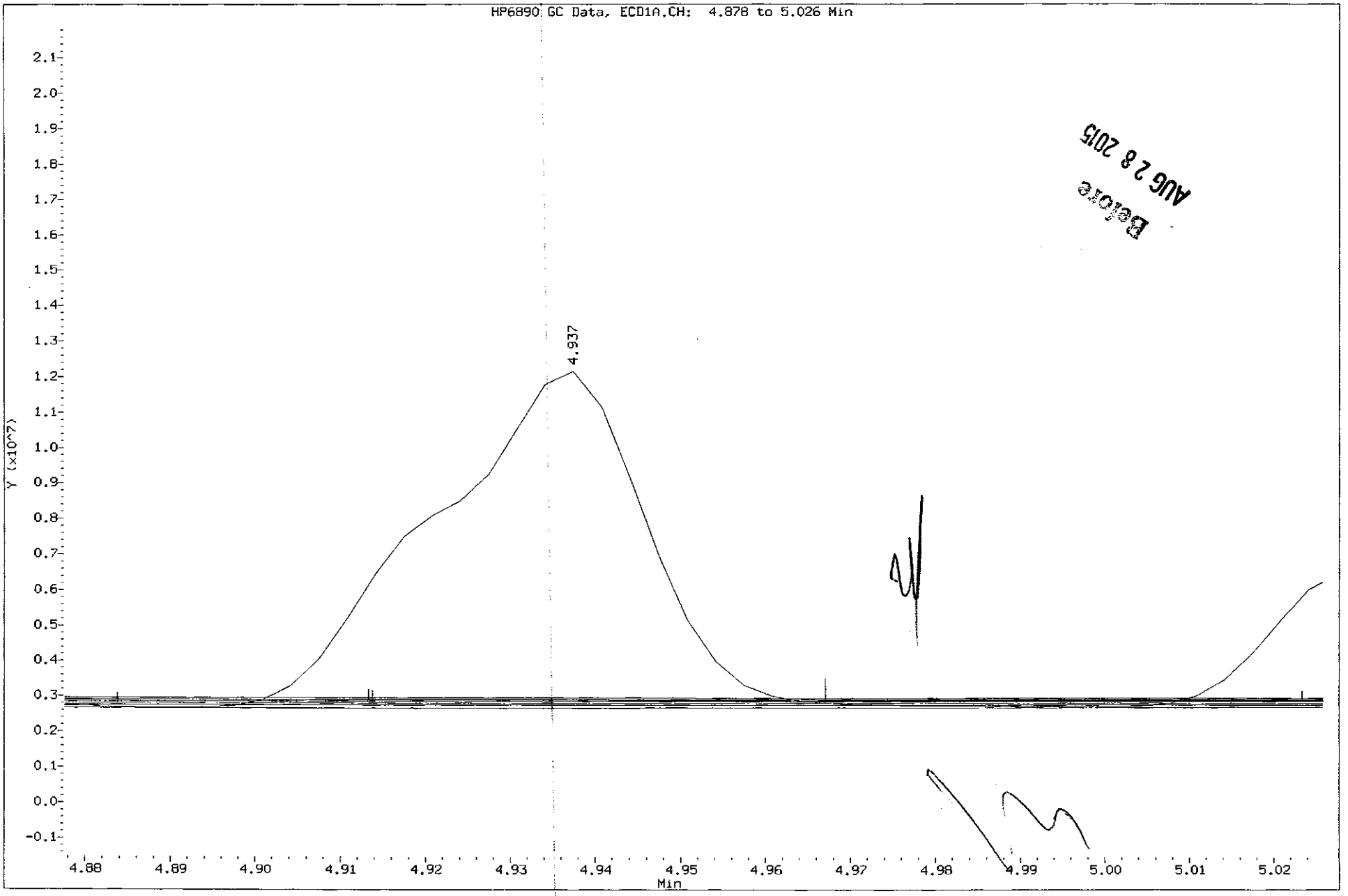


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



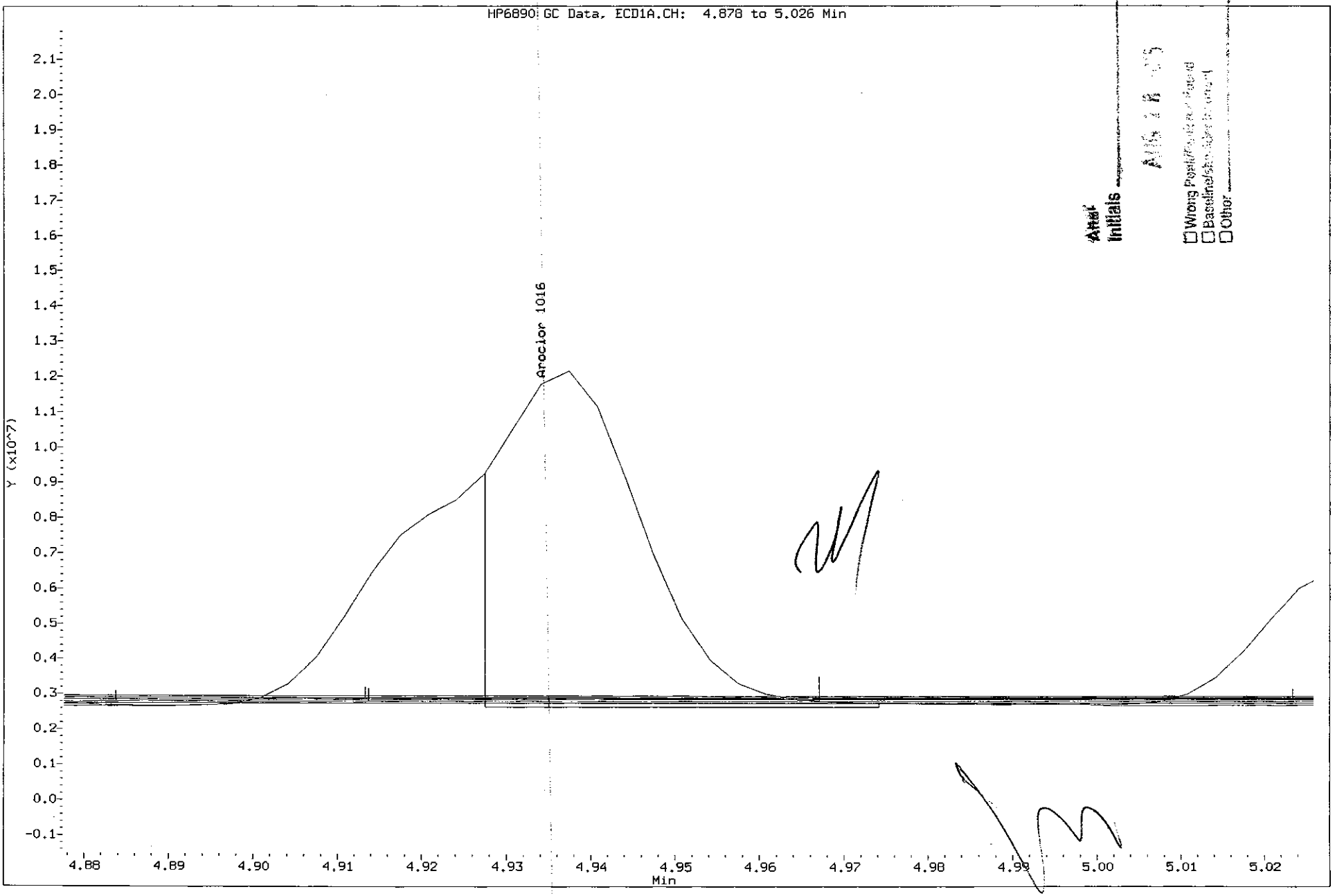
Alter Initials
AUG 28 2015
Wrong Peak/Peak not Found
Baseline/shoulder incorrect
Other

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:

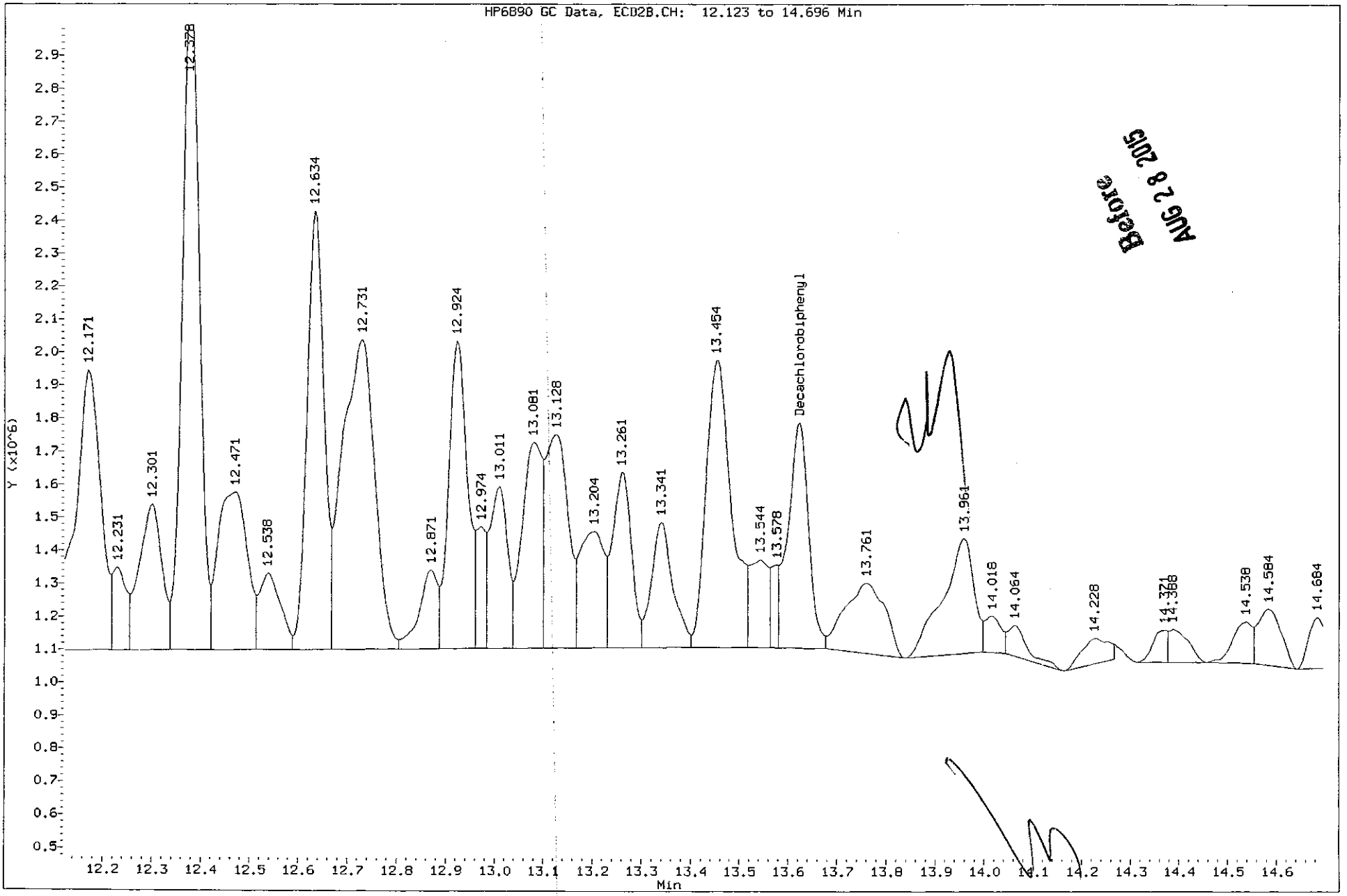


Before
AUG 28 2015

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:

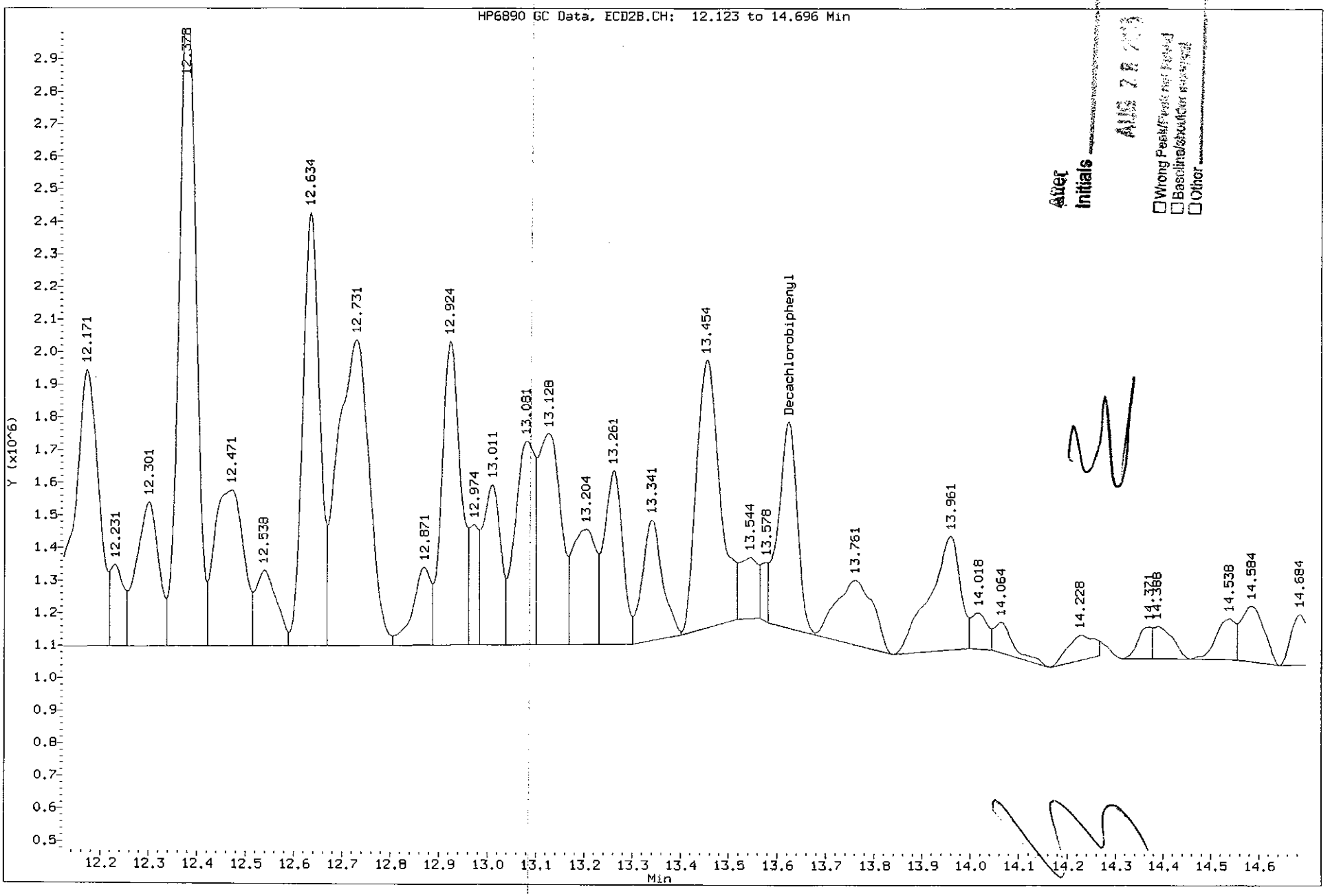


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



Before
AUG 28 2015

Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



Alter Initials

AUG 2 8 2015

☐ Wrong Peak/Peak not found
☐ Baseline/Integration error
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F024.D
Lab ID: KWG1507646-2 -- K1508582-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/26/2015 21:51
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK
Surrogates	Decachlorobiphenyl	198	43	148	RO
Above Highest ICAL Level	Aroclor 1232 {4}	2875.17	NA	2000	MRR
	Aroclor 1242 {5}	6336.92	NA	5000	↓

Primary Review: MR 08/29/15

Secondary Review: [signature]

Printed: 08/27/2015 15:47:35
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F024.D
Lab ID: KWG1507646-2 -- K1508582-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/26/2015 21:51
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual
Above Highest ICAL Level	Aroclor 1016 {4}	3412.71	NA	2000	MRL
	Aroclor 1016 {5}	4138.34	NA	2000	
	Aroclor 1232 {5}	9080.86	NA	5000	
	Aroclor 1242 {5}	5929.60	NA	5000	
	Aroclor 1248	2147.13	NA	2000	
	Aroclor 1248 {3}	2518.84	NA	2000	
	Aroclor 1248 {4}	2932.88	NA	2000	
	Aroclor 1248 {5}	3535.13	NA	2000	

Primary Review: [illegible] 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458721	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	3196573	1239494	18.06		15.76				90	OK
						%Recovery =	90	OK	79	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.62	-0.01	6260112	1342110	39.59		16.30				81	OK
						%Recovery =	198	*	81	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	519.94	263.41	361D	183D	**183**PD
Aroclor 1016 {1}	4.24	+0.00	4.62	-0.01	1202089m	317374m	334.94	172.66	232D	120D	
Aroclor 1016 {2}	4.74	-0.01	4.95	0.00	904194m	968584m	301.79	397.84	209D	276D	
Aroclor 1016 {3}	4.94	0.00	5.59	0.00	9130418m	658987m	923.10	219.72	641D	152D	RPD
Aroclor 1016 {4}	5.21	0.00	5.92	+0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1221					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242					0	0	0.0000	0.0000	11U	11U	11U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclors, Total			18297577	7305080	1,755	1,592	1220JD	1100JD	**1220**JD
Aroclor 1260			0	0	1,235	1,329	857D	922D	**857**D
Aroclor 1260 {1}	7.08 0.00	7.83 0.00	12634741	2437485	1,283	1,105	890D	767D	
Aroclor 1260 {2}	8.09 -0.01	9.27 0.00	9826260	5064449	1,211	1,340	840D	930D	
Aroclor 1260 {3}	8.65 0.00	9.72 -0.01	9926371	4256715	1,206	1,180	837D	819D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	21515377	13209636	1,145	1,530	794D	1060D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	18857304	8315540	1,329	1,489	922D	1030D	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0519 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Report Date: 28-Aug-2015 11:52

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Inj Date : 26-AUG-2015 21:51
Sample Info: K1508582-001 5X DMS
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	3196573	1239494	18.1	15.8		100.00
Aroclor 1016	4.240	4.617	1202089	317374	335	173	80.00- 120.00	100.00(M)
	4.740	4.954	904194	968584	302	398	67.58- 101.37	75.22(M)
	4.937	5.590	9130418	658987	923	220	323.28- 484.93	1091.53(M)
	5.210	5.924					94.62- 141.94	0.00(M)
	5.500	6.117					92.33- 138.50	0.00(M)
		Average of Peak Amounts =			520	264		
Aroclor 1260	7.077	7.834	12634741	2437485	1280	1100	80.00- 120.00	100.00
	8.093	9.270	9826260	5064449	1210	1340	70.14- 105.21	77.77
	8.647	9.717	9926371	4256715	1210	1180	70.66- 105.99	78.56
	9.110	10.397	21515377	13209636	1140	1530	162.95- 244.43	170.29
	9.897	11.027	18857304	8315540	1330	1490	126.35- 189.53	149.25
		Average of Peak Amounts =			1230	1330		
Decachlorobiphenyl	12.263	13.624	6260112	1342110	39.6	16.3		100.00
Aroclors, Total	0.000	0.000	18297577	7305080	1750	1590		0.00

QC Flag Legend

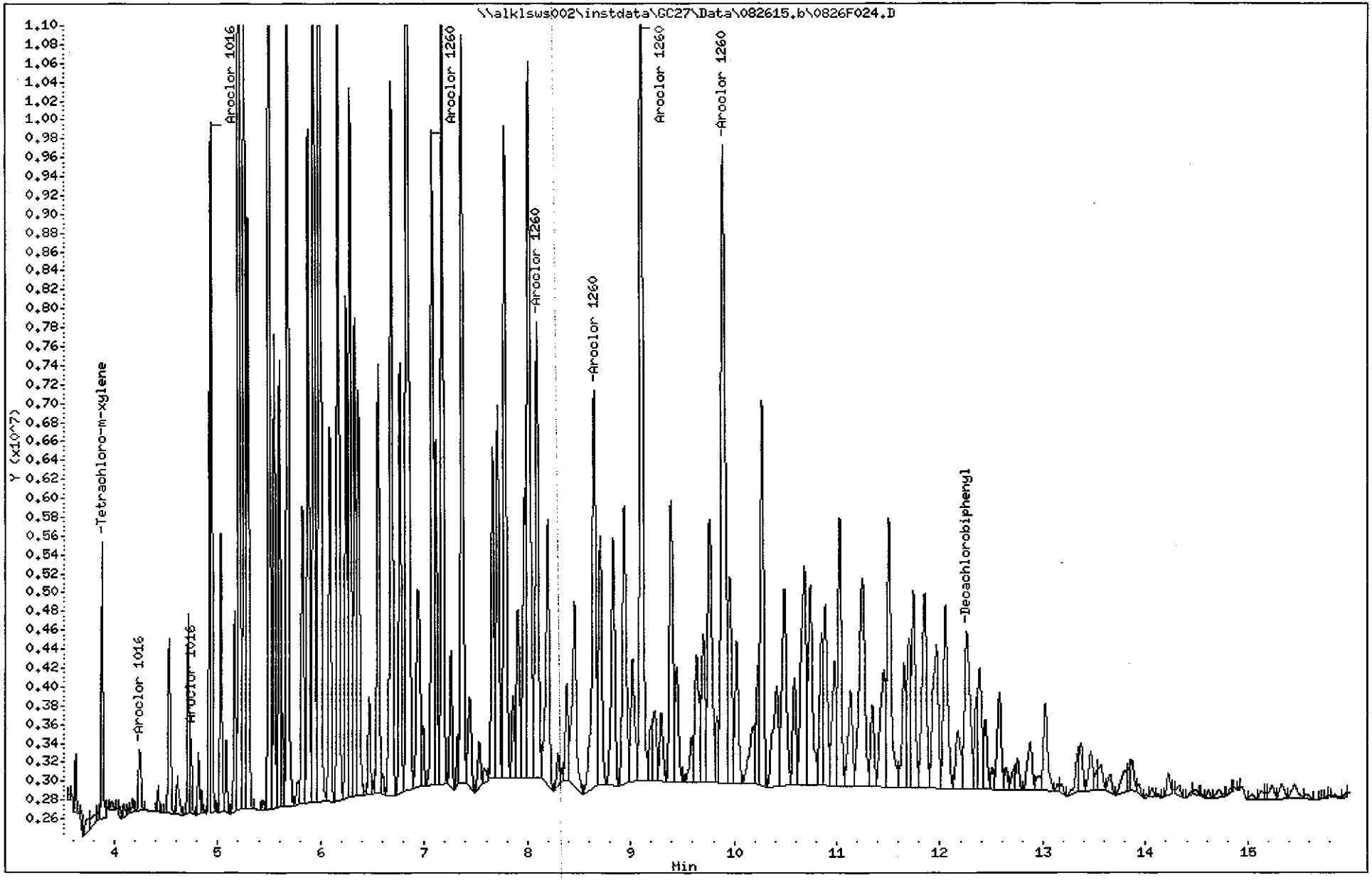
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Date : 26-AUG-2015 21:51
Client ID:
Sample Info: K1508582-001 5X DMS

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

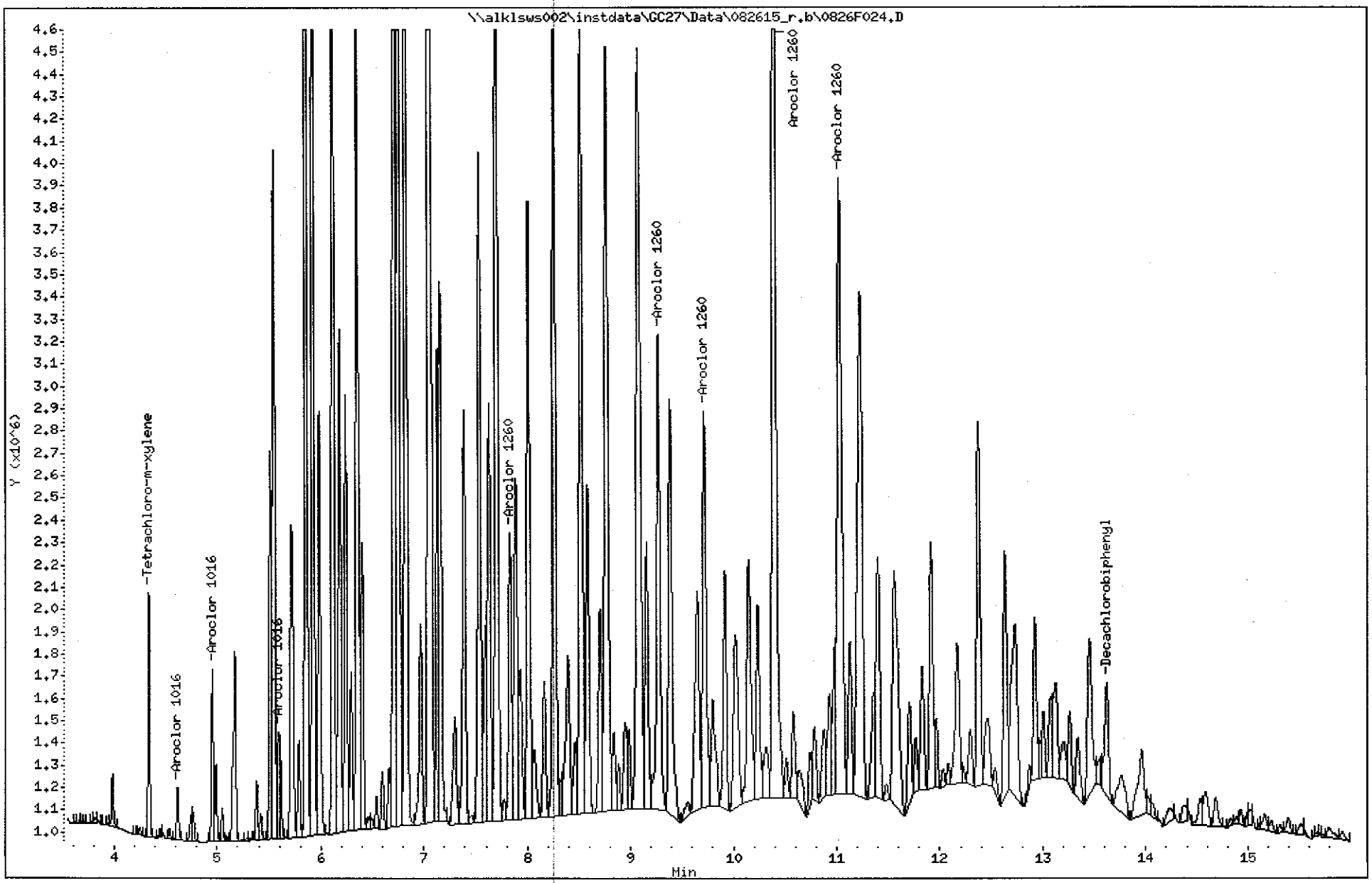


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Date : 26-AUG-2015 21:51
Client ID:
Sample Info: K1508582-001 5X DMS

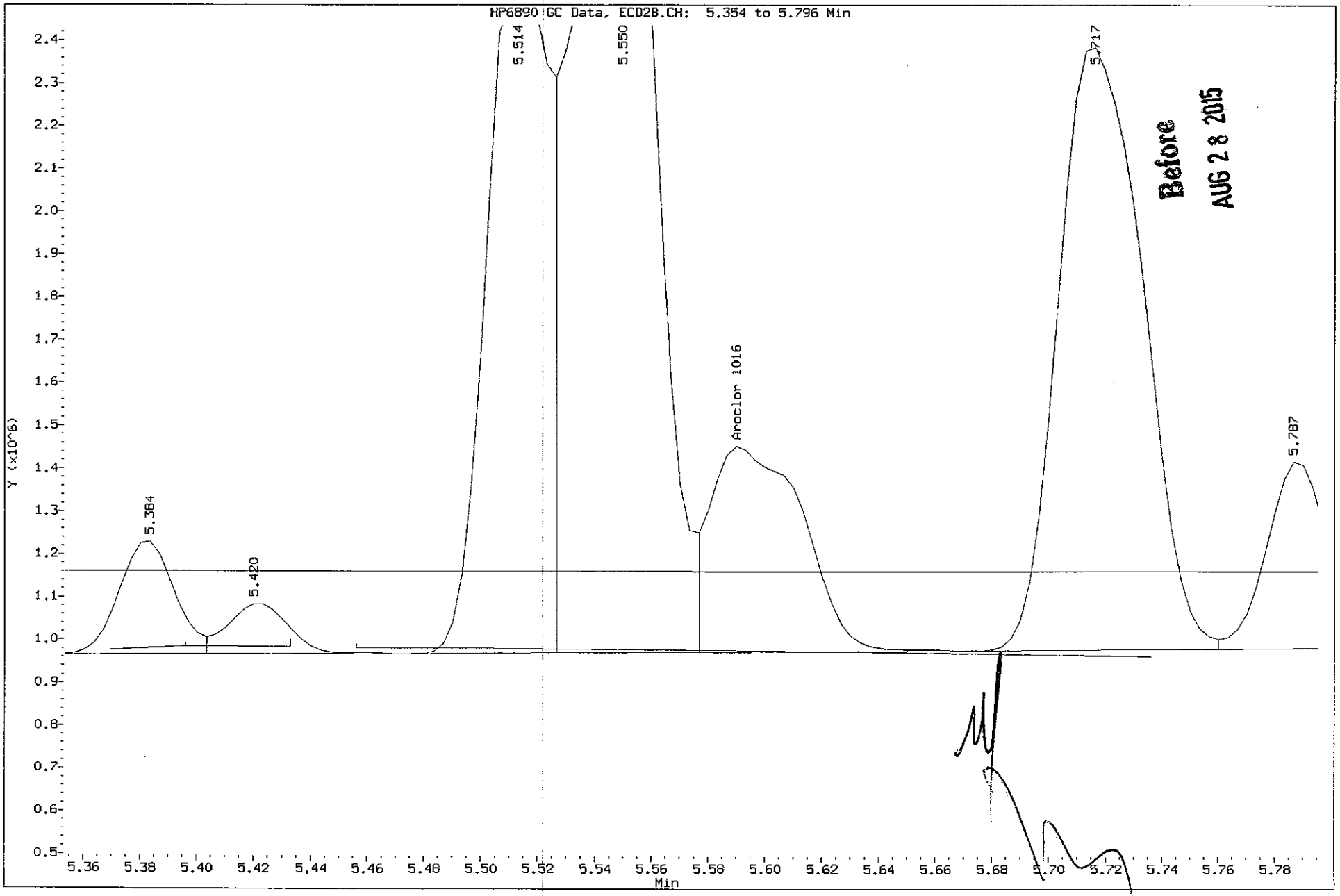
Column phase: DB-XLB

Instrument: GC27.i

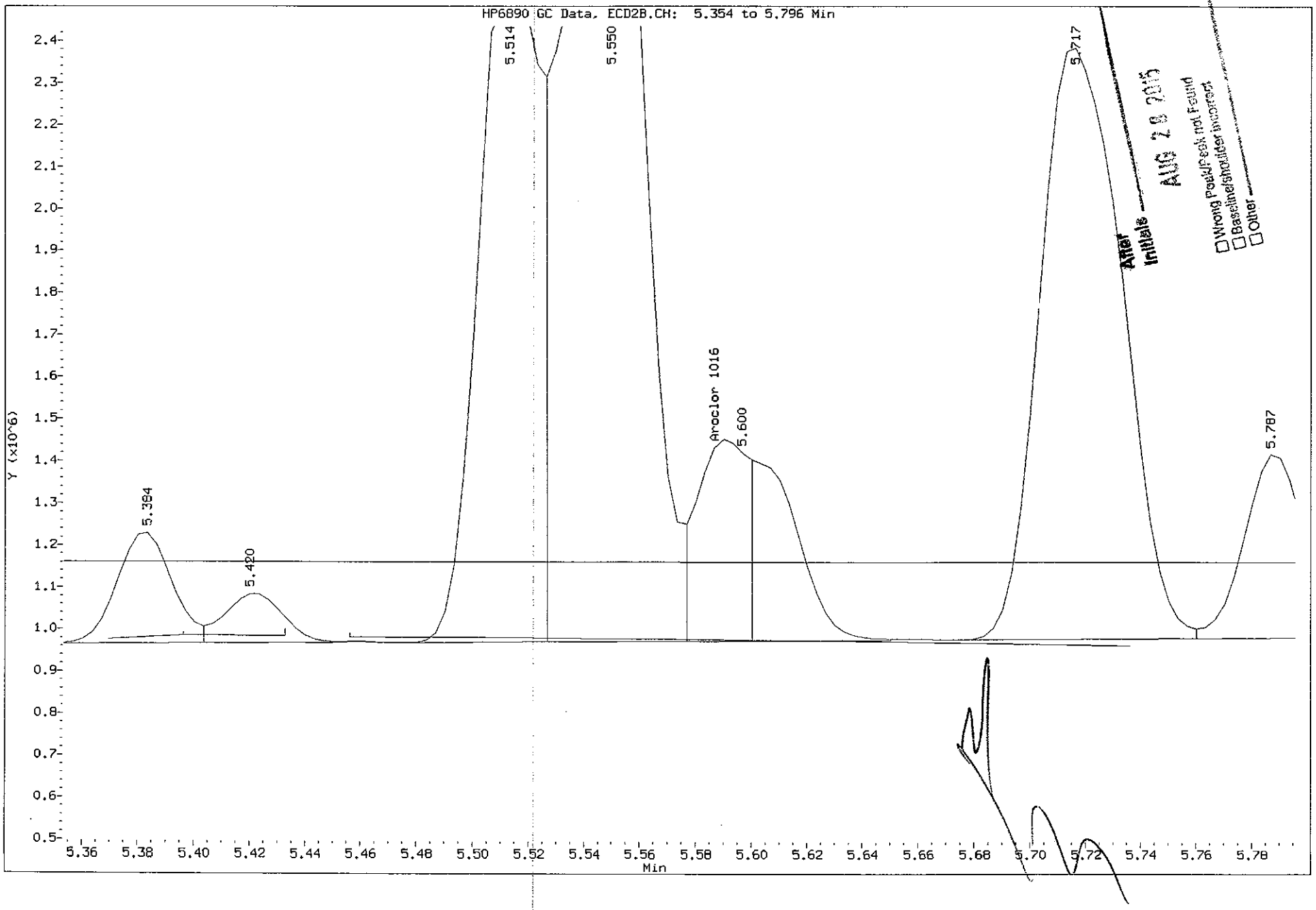
Operator: MR
Column diameter: 0.32



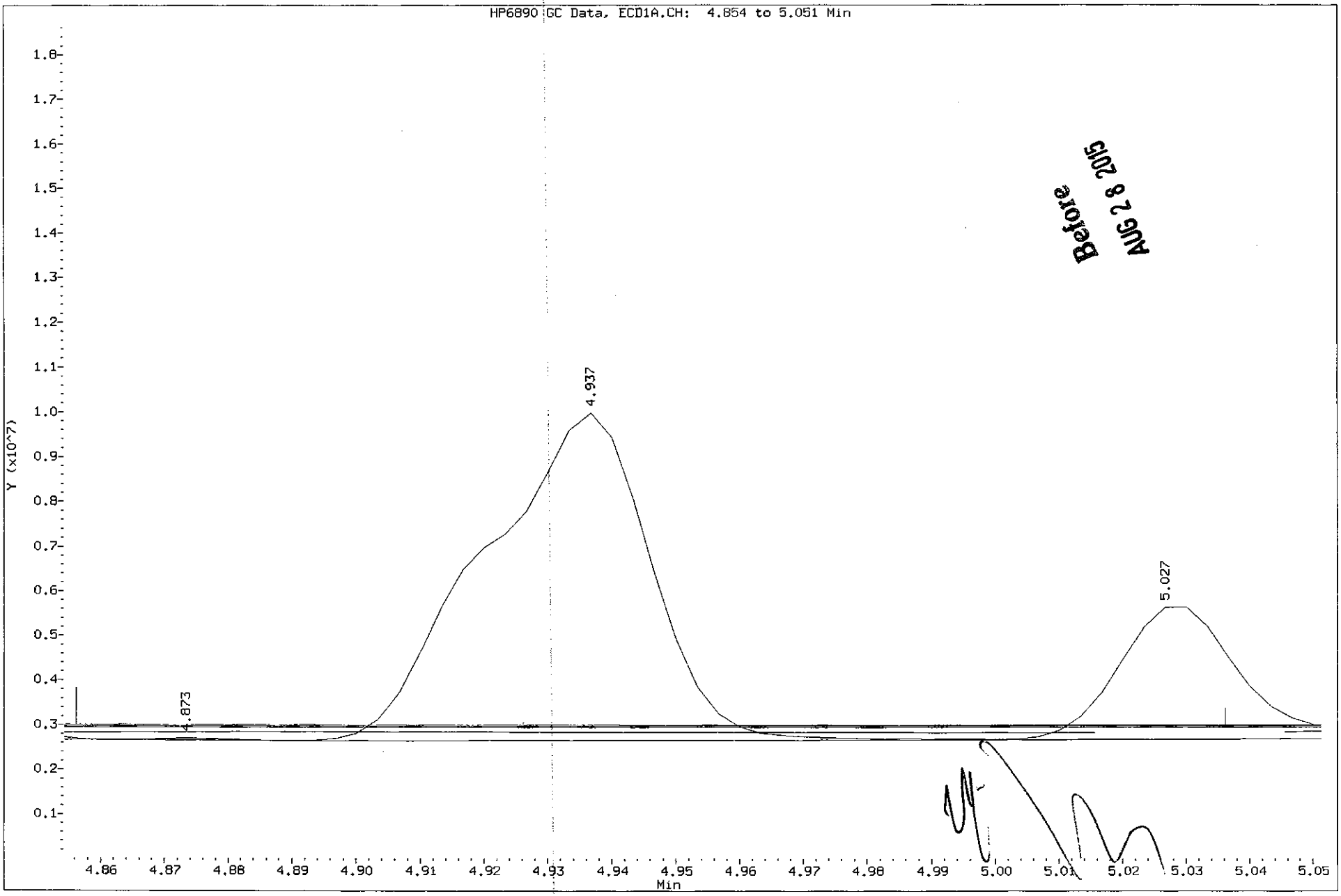
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:

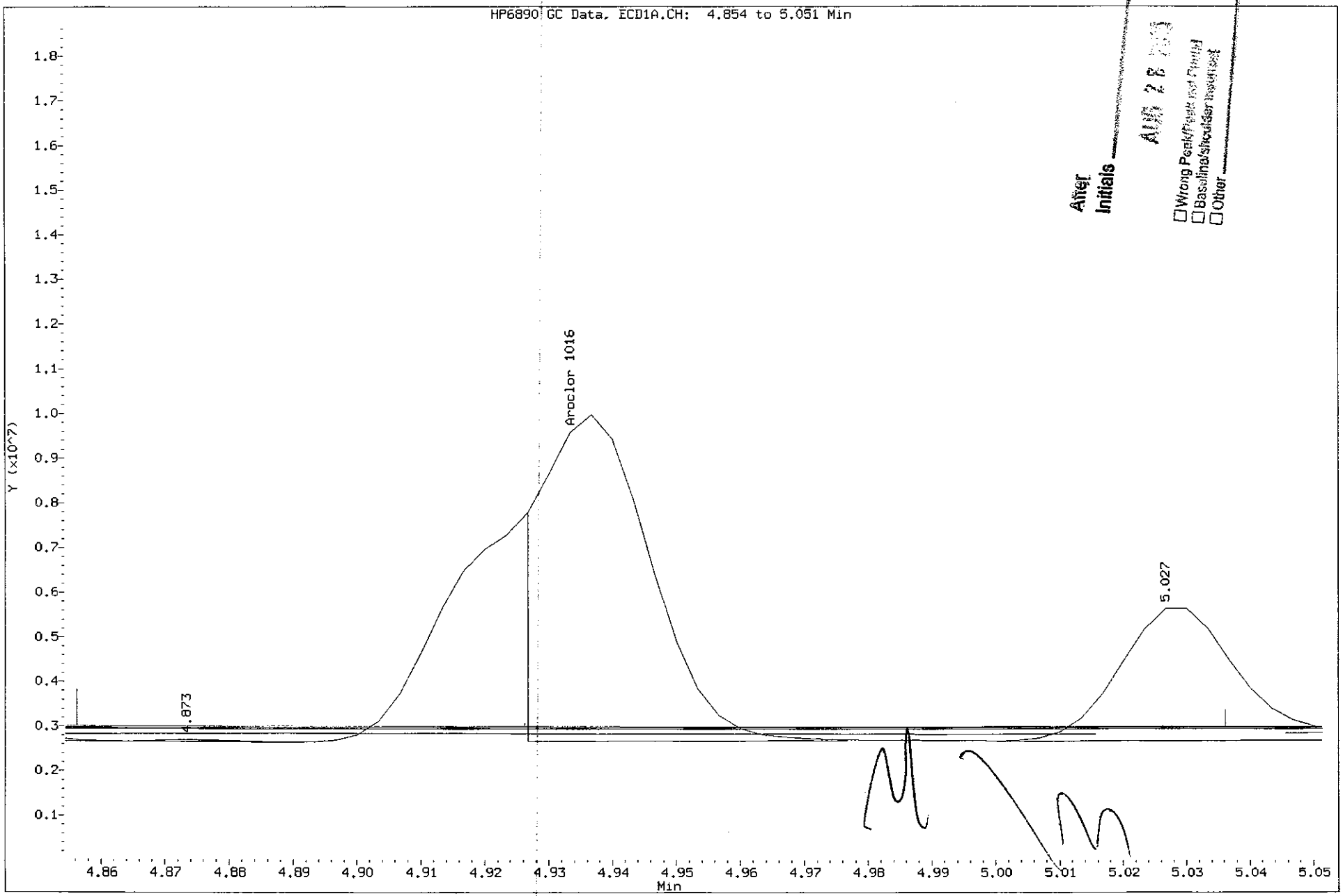


Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:



Before
AUG 28 2015

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:



After
Initials

AUG 28 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/Shoulder Integrat
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	nR

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:50
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 08/26/15

Secondary Review: _____

Printed: 08/26/2015 09:51:54
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Acqu Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458722	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	12923724	5003159	73.01 CCV	63.61			64	OK
				%Recovery =	73 OK	64 OK	Limits =	10-135		
Decachlorobiphenyl	12.26 +0.00	13.63 +0.00	12037920	6116497	76.13	74.27			76	OK
				%Recovery =	76 OK	74 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	685.70	601.86	137	120	120
Aroclor 1016 {1}	4.24 +0.00	4.62 0.00	2711257m	1179787	755.44	641.85	151	128	
Aroclor 1016 {2}	4.74 +0.00	4.96 +0.00	2154258m	1503163	719.02	617.42	144	123	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	6405854m	1726644	647.64	575.69	130	115	
Aroclor 1016 {4}	5.21 +0.00	5.92	3258241m	1271469	656.73	579.25	131	116	
Aroclor 1016 {5}	5.50	6.12 +0.00	3362978m	1283054	649.67	595.11	130	119	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Acqu Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			12630325	5133765	1,447	1,374	289J	275J	**289J**
Aroclor 1260			0	0	761.59	772.02	152	154	**152**
Aroclor 1260 {1}	7.08 +0.00	7.84 +0.00	6254963	1499096	634.98	679.59	127	136	
Aroclor 1260 {2}	8.09	9.27 +0.00	6541261	3077970	806.19	814.31	161	163	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.00	6505331	2806207	790.35	777.60	158	156	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.00	14646545	6933669	779.13	803.02	156	161	
Aroclor 1260 {5}	9.89	11.04 +0.01	11310937	4387766	797.29	785.59	159	157	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Inj Date : 25-AUG-2015 12:38
Sample Info: KWG1507645-3 LCS
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	12923724	5003159	73.0	63.6		100.00
Aroclor 1016	4.238	4.618	2711257	1179787	755	642	80.00- 120.00	100.00(M)
	4.744	4.955	2154258	1503163	719	617	68.02- 102.04	79.46(M)
	4.938	5.588	6405854	1726644	648	576	217.78- 326.67	236.27(M)
	5.211	5.921	3258241	1271469	657	579	103.05- 154.58	120.17(M)
	5.501	6.118	3362978	1283054	650	595	104.78- 157.16	124.04(M)
		Average of Peak Amounts =			686	602		
Aroclor 1260	7.078	7.835	6254963	1499096	635	680	80.00- 120.00	100.00(H)
	8.094	9.271	6541261	3077970	806	814	70.16- 105.25	104.58(H)
	8.648	9.721	6505331	2806207	790	778	71.52- 107.28	104.00(H)
	9.111	10.395	14646545	6933669	779	803	162.72- 244.08	234.16(H)
	9.894	11.035	11310937	4387766	797	786	127.86- 191.79	180.83(H)
		Average of Peak Amounts =			761	772		
Decachlorobiphenyl	12.264	13.625	12037920	6116497	76.1	74.3		100.00
Aroclors, Total	0.000	0.000	12630325	5133765	1450	1370		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

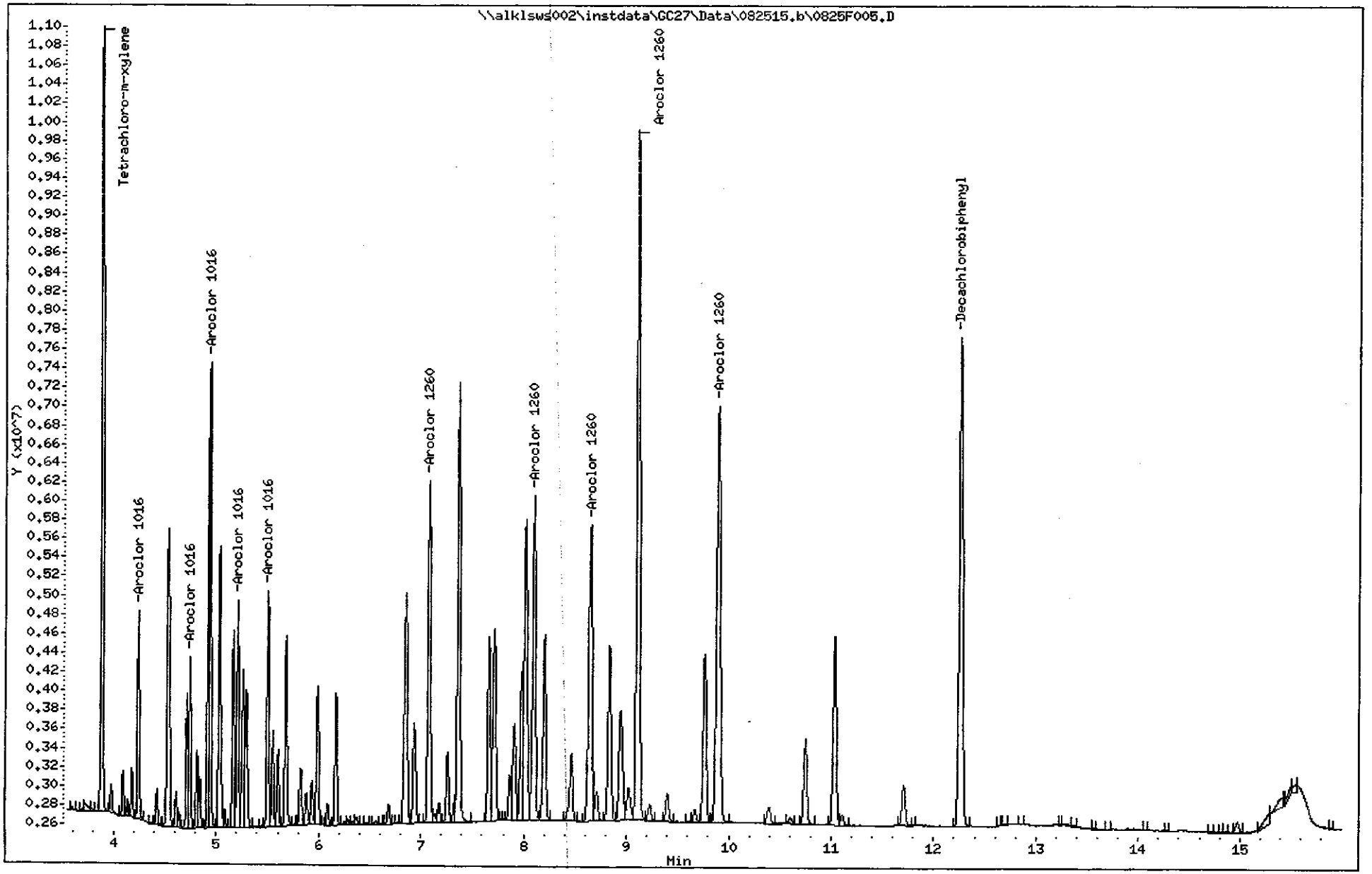
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

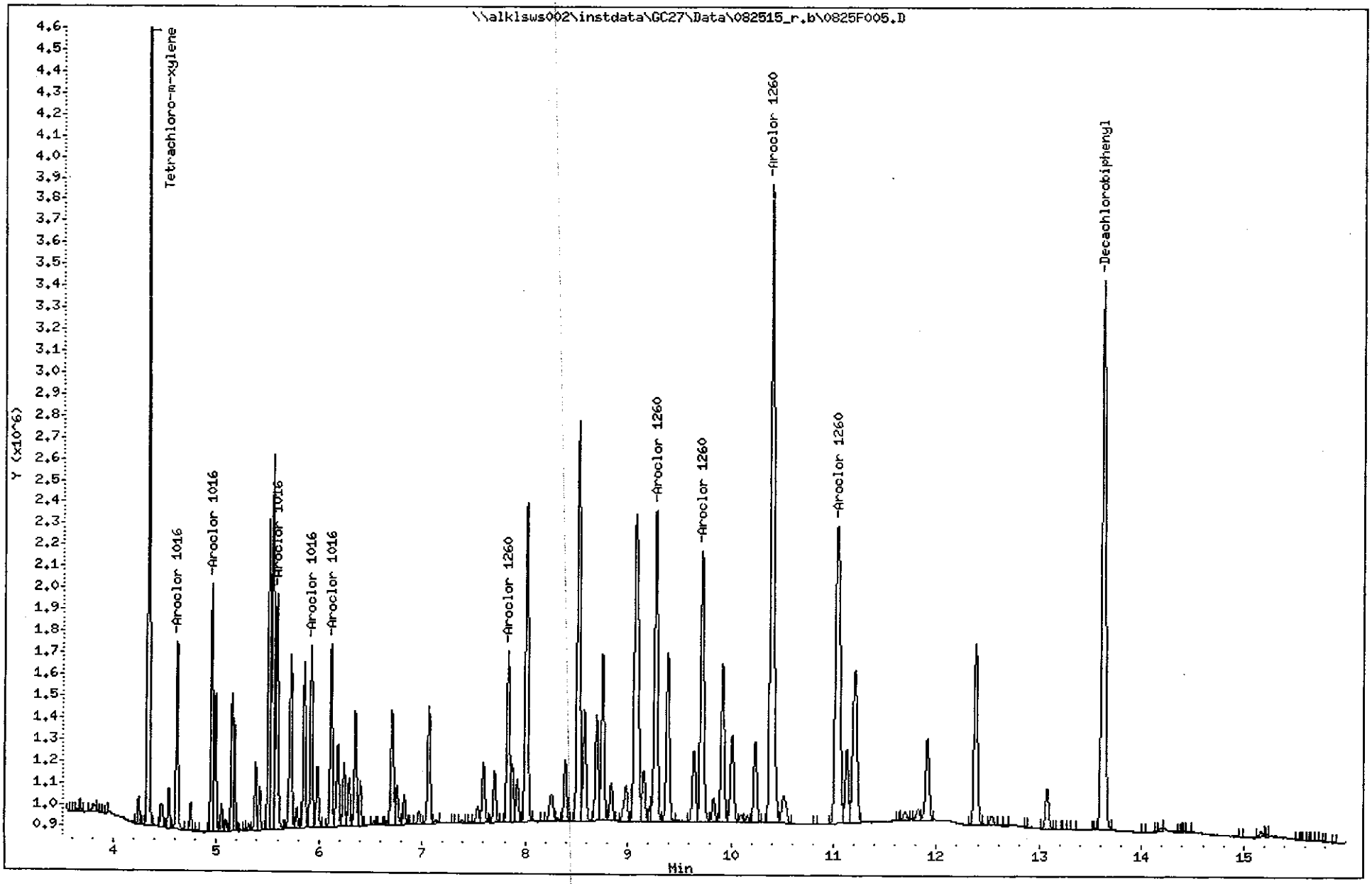


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

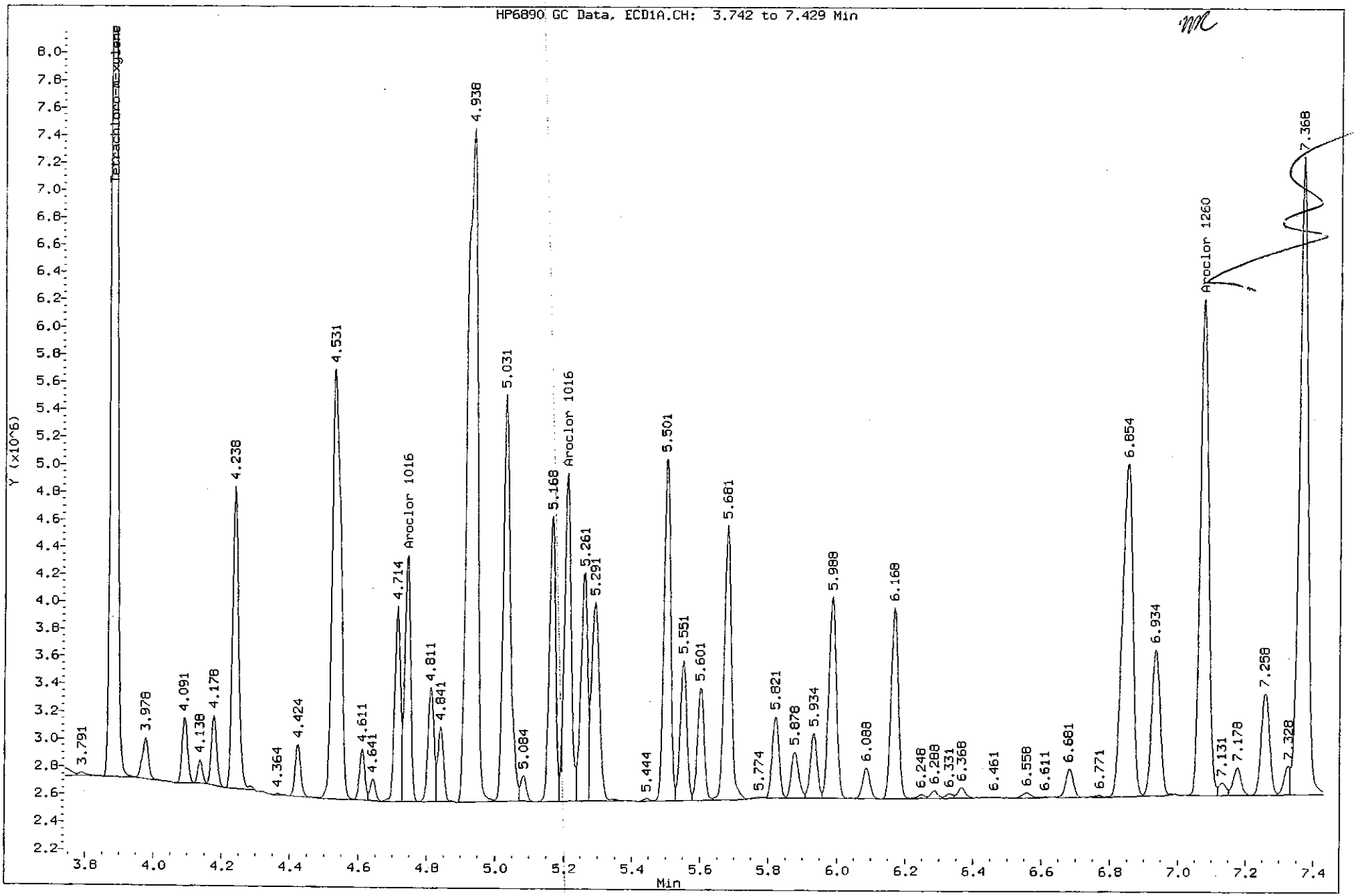
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:

Before

AUG 2 6 2015

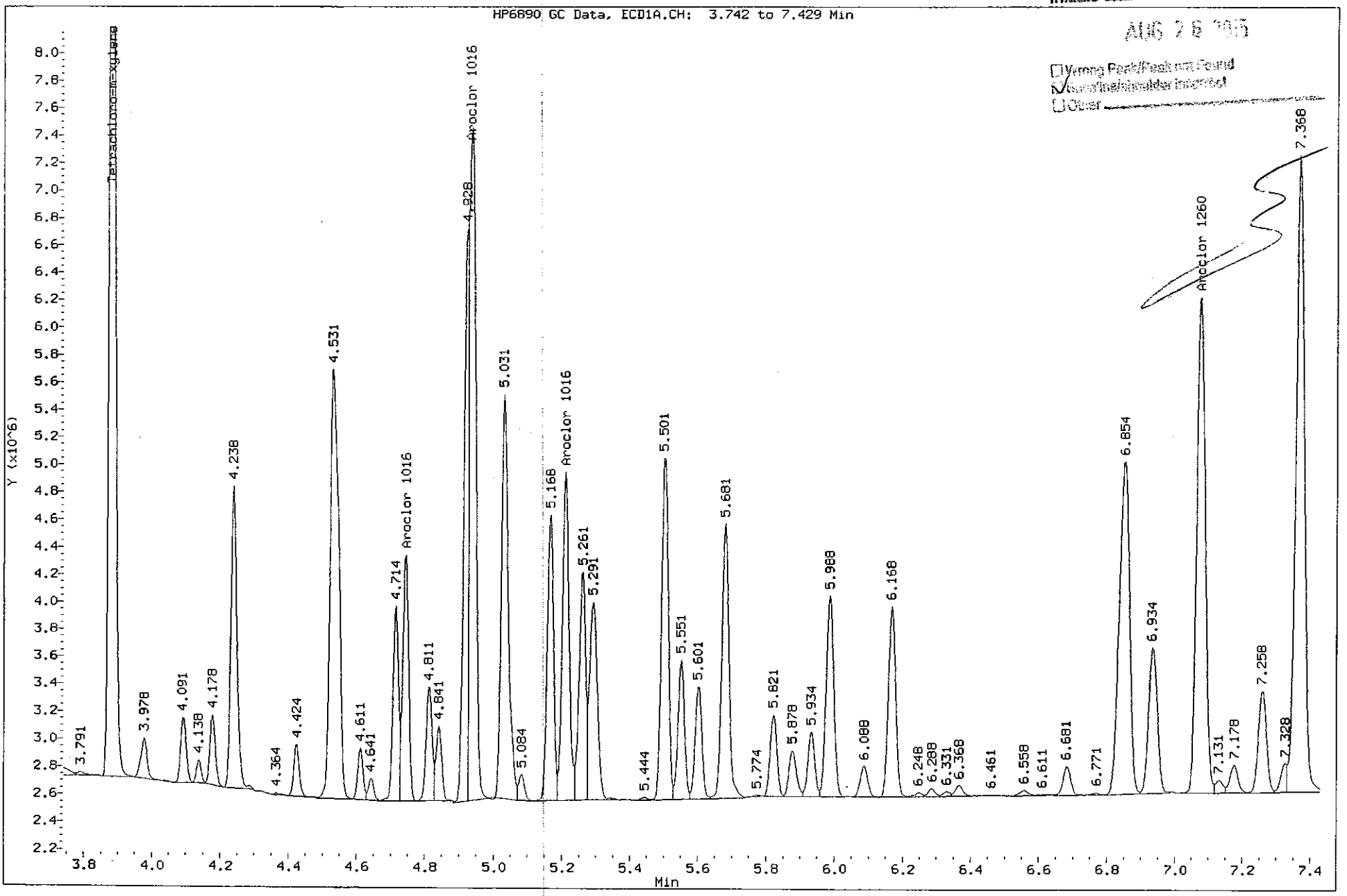


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:

After
Initials MC

AUG 26 2015

☐ Wrong Peak/Peak not Found
☑ Surrogate/Internal Standard Incorrect
☐ Other



Injection Log

Directory: J:\GC27\Data\082515.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0825F003.D	1.	1660 @ 500ppb PCB6-74E		08/25/22015 11:51:2
2	99	0825F004.D	1.	IB		08/25/22015 12:14:5
3	6	0825F005.D	1.	KWG1507645-3 LCS		08/25/22015 12:38:2
4	7	0825F006.D	1.	KWG1507646-4 MB		08/25/22015 1:01:5
5	8	0825F007.D	1.	K1508581-001		08/25/22015 1:25:3
6	9	0825F008.D	1.	K1508582-001	see 5X	08/25/22015 1:49:0
7	10	0825F009.D	1.	K1508582-001 MS		08/25/22015 2:12:3
8	11	0825F010.D	1.	K1508582-001 DMS		08/25/22015 2:36:0
9	12	0825F011.D	1.	K1508937-001		08/25/22015 2:59:3
10	13	0825F012.D	1.	K1508937-002		08/25/22015 3:23:0
11	1	0825F013.D	1.	1660 @ 500ppb PCB6-74E	Run# 459097	08/25/22015 3:46:4
12	99	0825F014.D	1.	IB	Col# 13684	08/25/22015 4:10:1
13	14	0825F015.D	1.	KWG1507602-1 LCS	KWG1503064	08/25/22015 4:33:4
14	15	0825F016.D	1.	KWG1507602-2 DLCS		08/25/22015 4:57:2
15	16	0825F017.D	1.	KWG1507602-3 MB		08/25/22015 5:20:5
16	17	0825F018.D	1.	K1508349-004		08/25/22015 5:44:2
17	18	0825F019.D	1.	~~K1508348-011~~ 8435-011		08/25/22015 6:08:0
18	19	0825F020.D	1.	K1508494-001		08/25/22015 6:31:3
19	20	0825F021.D	1.	K1508494-002		08/25/22015 6:55:0
20	21	0825F022.D	1.	K1508494-003		08/25/22015 7:18:4
~~21~~	~~22~~	~~0825F023.D~~	~~1.~~	~~K1508265-001 5X~~		~~08/25/22015 7:42:1~~
22	23	0825F024.D	1.	K1508265-001 MS 5X		08/25/22015 8:05:4
23	24	0825F025.D	1.	K1508265-001 DMS 5X	nR	08/25/22015 8:29:1
24	25	0825F026.D	1.	K1508265-002 5X		08/25/22015 8:52:4
25	1	0825F027.D	1.	1660 @ 500ppb PCB6-74E		08/25/22015 9:16:1
26	99	0825F028.D	1.	IB		08/25/22015 9:39:4

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F003.D
Lab ID: KWG1508064-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 11:51
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:51:32
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F003.D
Lab ID: KWG1508064-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 11:51
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/26/15

Secondary Review:

Printed: 08/26/2015 09:51:36
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D			**Vial:**	1
Acqu Date:	08/25/2015 11:51	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.26	13.62	8007108	4025064	50.64	48.88				NA
				%Recovery =	NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	449.07	409.10			
Aroclor 1016 {1}	4.24	4.62	1702991m	770841	474.51	419.37			
Aroclor 1016 {2}	4.74	4.95	1395084m	1025985	465.64	421.42			
Aroclor 1016 {3}	4.94	5.59	4325702m	1196785	437.33	399.03			
Aroclor 1016 {4}	5.21	5.92	2164341m	889259	436.25	405.13			
Aroclor 1016 {5}	5.50	6.12	2234236m	863632	431.62	400.57			
Aroclor 1260			0	0	471.91	476.58			
Aroclor 1260 {1}	7.07	7.83	4353262	979437	441.93	444.01			
Aroclor 1260 {2}	8.09	9.27	3844866	1795631	473.87	475.05			
Aroclor 1260 {3}	8.64	9.72	3912800	1729440	475.38	479.23			
Aroclor 1260 {4}	9.11	10.39	8947350	4159444	475.96	481.73			
Aroclor 1260 {5}	9.89	11.03	6985817	2808772	492.42	502.88			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
? Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D
Inj Date : 25-AUG-2015 11:51
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	0.000	4.337	0	3567210	0.000	45.4		
Aroclor 1016	4.237	4.621	1702991	770841	475	419	80.00- 120.00	100.00(M)
	4.741	4.954	1395084	1025985	466	421	68.02- 102.04	81.92(M)
	4.937	5.587	4325702	1196785	437	399	217.78- 326.67	254.01(M)
	5.207	5.921	2164341	889259	436	405	103.05- 154.58	127.09(M)
	5.501	6.117	2234236	863632	432	401	104.78- 157.16	131.19(M)
		Average of Peak Amounts =			449	409		
Aroclor 1260	7.074	7.831	4353262	979437	442	444	80.00- 120.00	100.00
	8.094	9.267	3844866	1795631	474	475	70.16- 105.25	88.32
	8.644	9.717	3912800	1729440	475	479	71.52- 107.28	89.88
	9.107	10.394	8947350	4159444	476	482	162.72- 244.08	205.53
	9.894	11.027	6985817	2808772	492	503	127.86- 191.79	160.47
		Average of Peak Amounts =			472	477		
Decachlorobiphenyl	12.261	13.621	8007108	4025064	50.6	48.9		100.00

QC Flag Legend

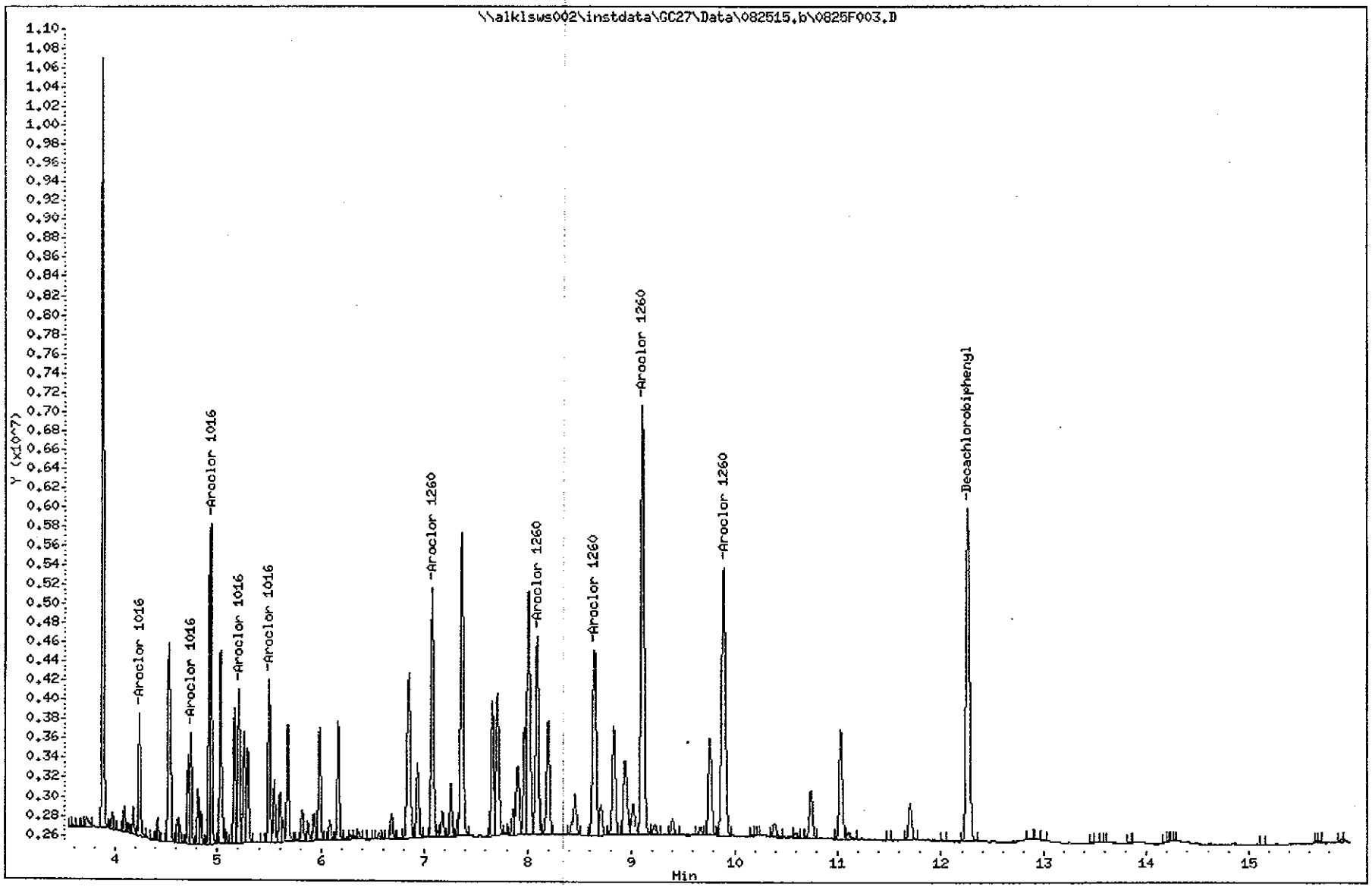
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Date : 25-AUG-2015 11:51
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

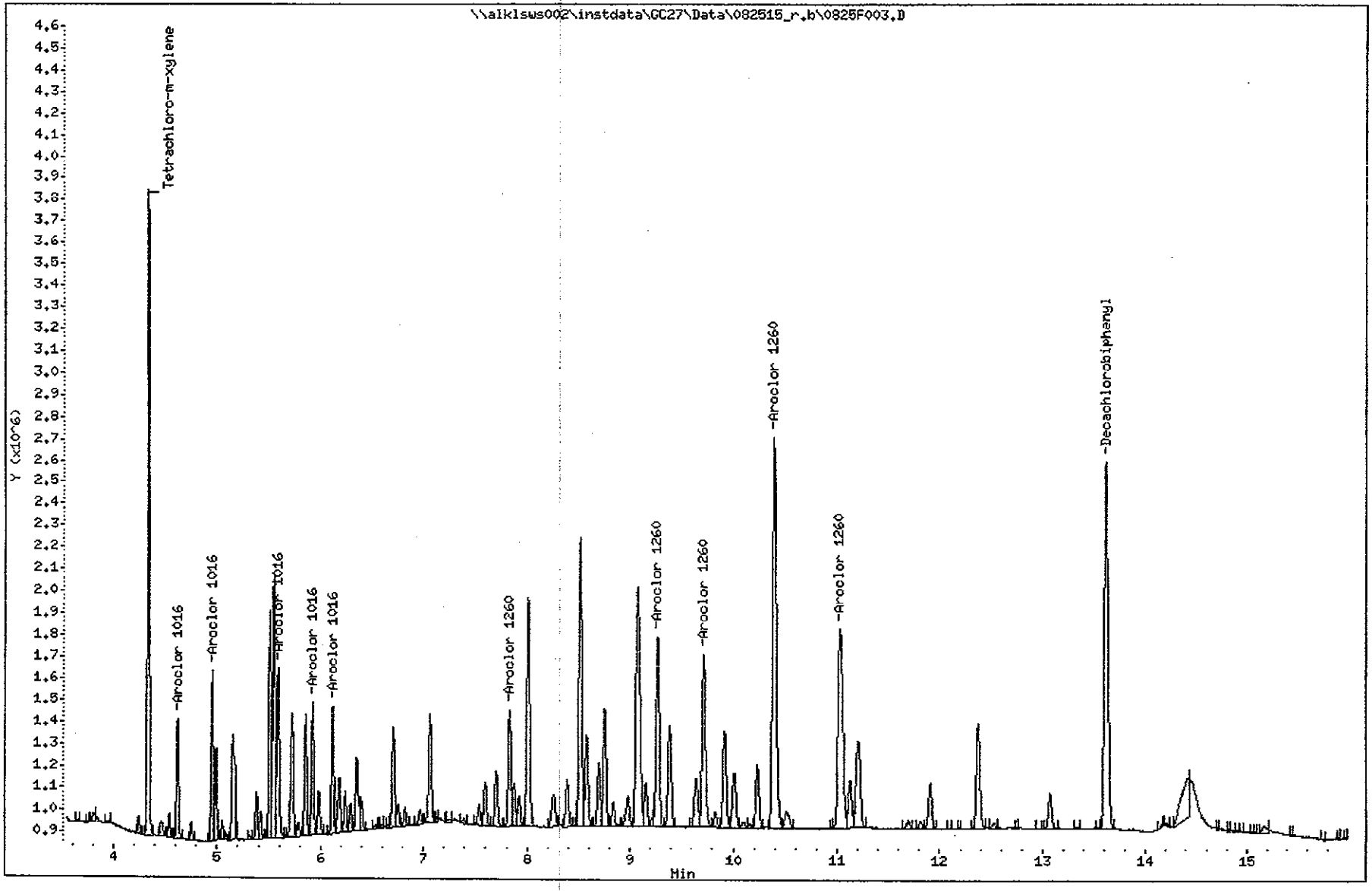


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D
Date : 25-AUG-2015 11:51
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

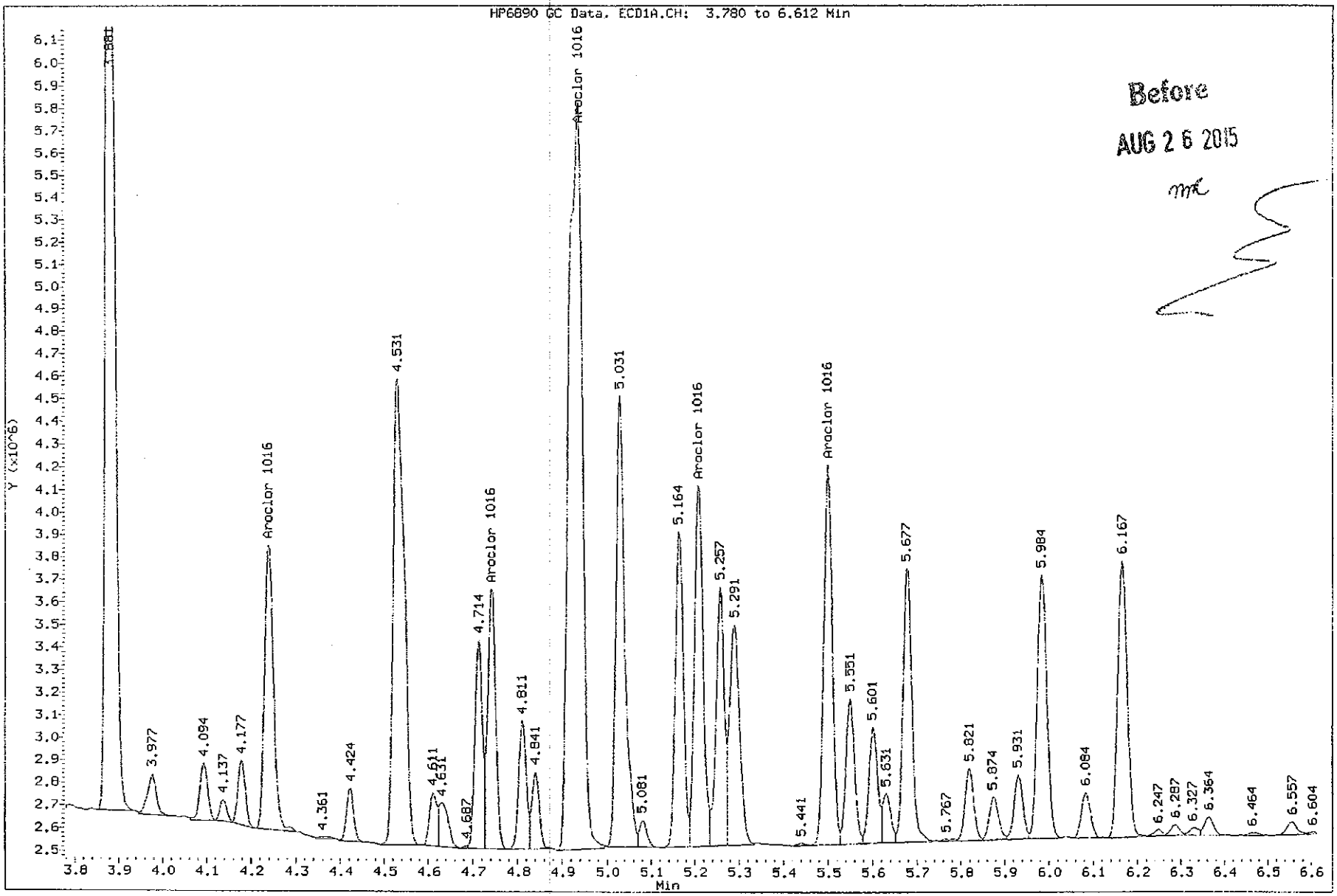
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

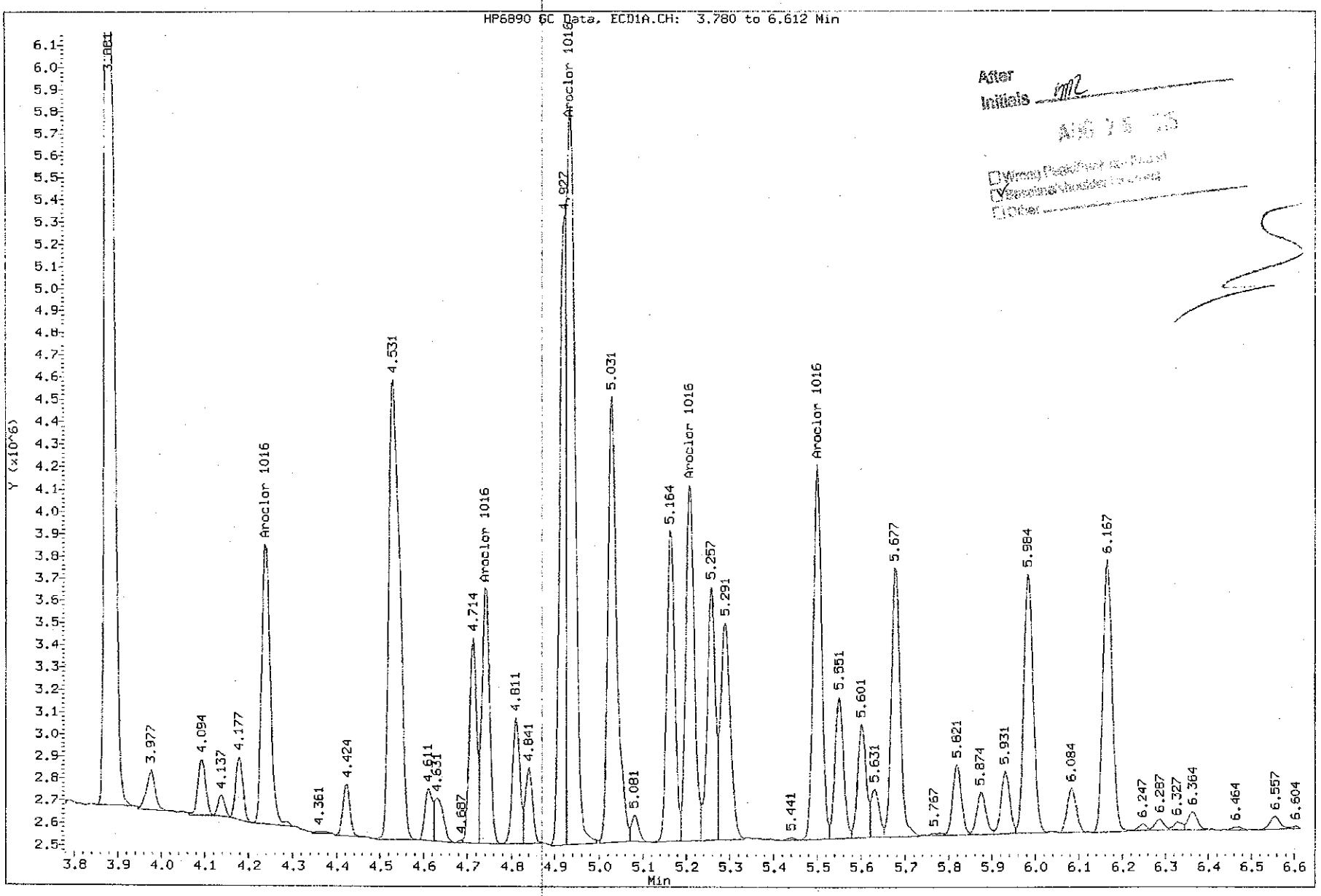


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Injection Date: 25-AUG-2015 11:51
Instrument: GC27.i
Client Sample ID:



Before
AUG 2 6 2015
mk

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Injection Date: 25-AUG-2015 11:51
Instrument: GC27.i
Client Sample ID:



After
Initials MR
AUG 25 15
☐ Wrong Peak/Peak Not Found
☑ Baseline/Shoulder Incorrect
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F004.D
Lab ID: KWG1508064-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 12:14
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	Tou ok

Primary Review: AMR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:41
u:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F004.D
Lab ID: KWG1508064-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 12:14
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mr 08/26/15

Secondary Review:

Printed: 08/26/2015 09:51:46
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D			**Vial:**	99
Acqu Date:	08/25/2015 12:14	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.28	13.62	12801	5026	0.0810	0.0610			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D			**Vial:**	99
Acqu Date:	08/25/2015 12:14	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D
Inj Date : 25-AUG-2015 12:14
Sample Info: IB
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

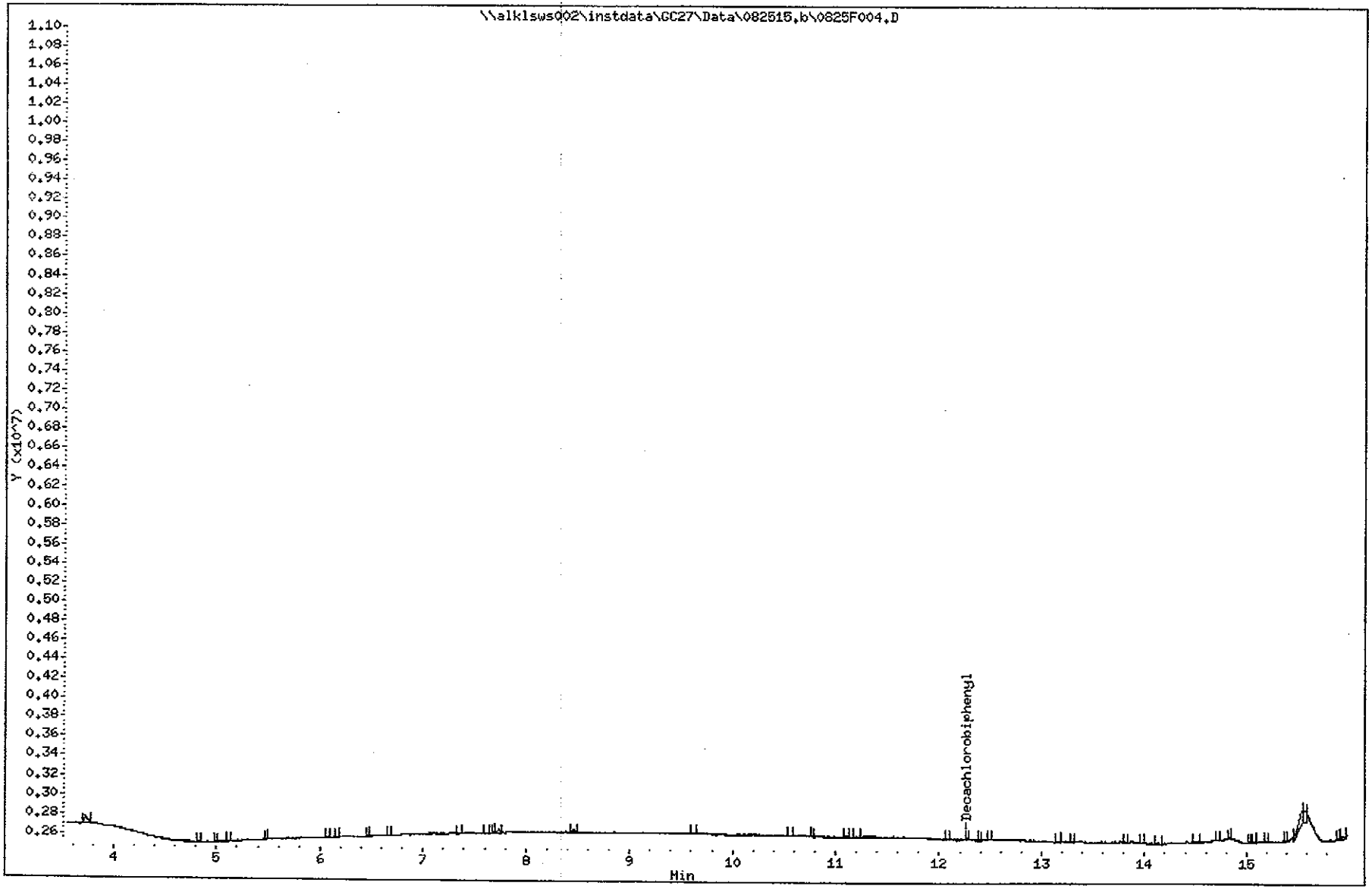
Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.277	13.617	12801	5026	0.0810	0.0610		100.00

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Date : 25-AUG-2015 12:14
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR
Column phase: DB-35MS
Column diameter: 0.32

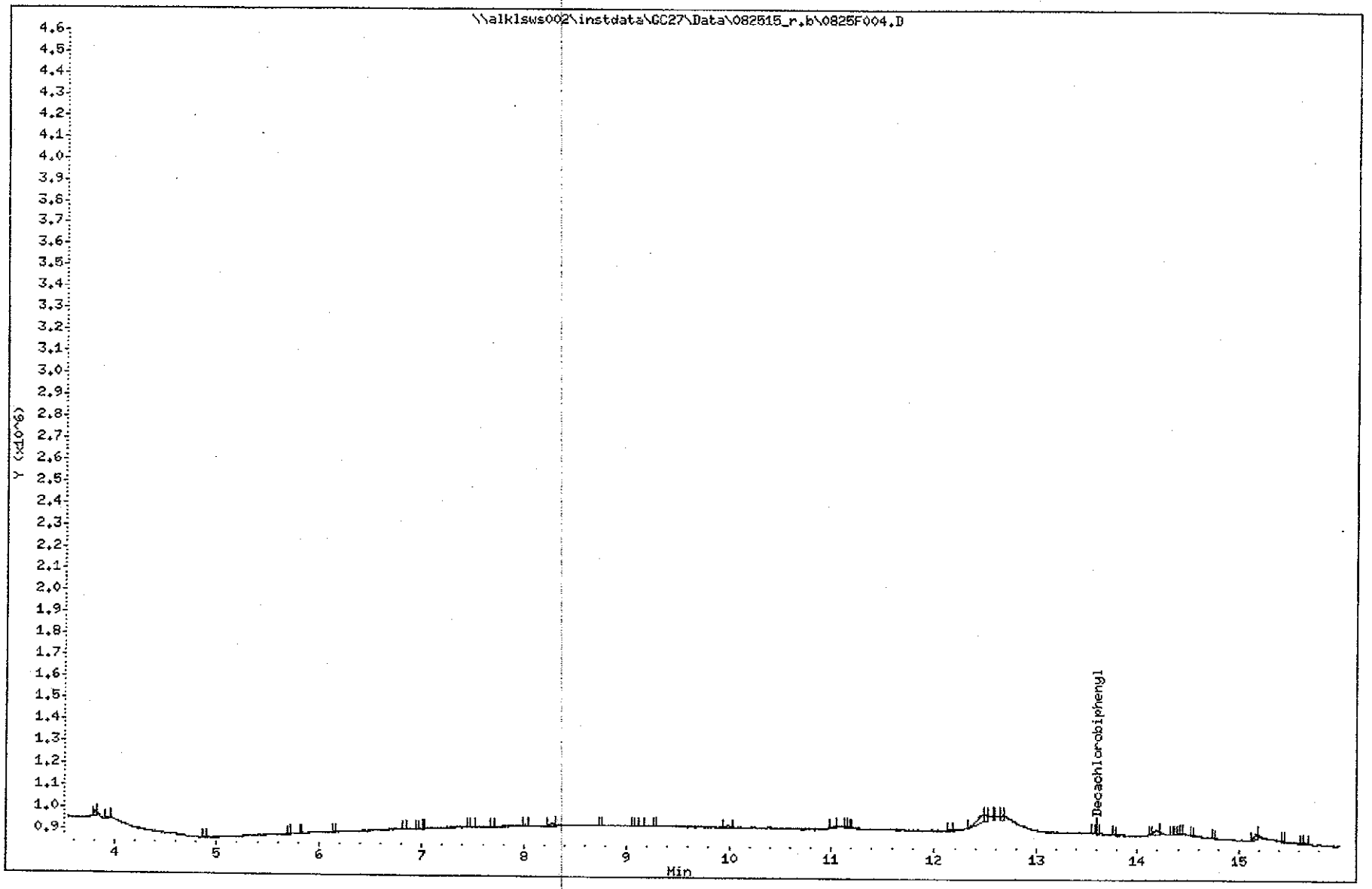


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D
Date : 25-AUG-2015 12:14
Client ID:
Sample Info: IB

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F013.D
Lab ID: KWG1508064-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 15:46
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 05/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:52:27
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F013.D
Lab ID: KWG1508064-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 15:46
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:52:31
u:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D			**Vial:**	1
Acqu Date:	08/25/2015 15:46	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.26	13.63	8273973	4077307	52.32	49.51				NA
			%Recovery =		NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	456.24	402.04			
Aroclor 1016 {1}	4.24	4.62	1697395m	745712	472.95	405.70			
Aroclor 1016 {2}	4.74	4.95	1411588m	997182	471.14	409.59			
Aroclor 1016 {3}	4.94	5.59	4315557m	1175804	436.31	392.03			
Aroclor 1016 {4}	5.21	5.92	2241897m	880216	451.88	401.01			
Aroclor 1016 {5}	5.50	6.12	2323838m	866415	448.93	401.86			
Aroclor 1260			0	0	490.82	474.81			
Aroclor 1260 {1}	7.08	7.83	4535218	976200	460.40	442.54			
Aroclor 1260 {2}	8.10	9.27	4005424	1820682	493.65	481.68			
Aroclor 1260 {3}	8.65	9.72	4084357	1716677	496.22	475.69			
Aroclor 1260 {4}	9.11	10.40	9309572	4161232	495.22	481.93			
Aroclor 1260 {5}	9.90	11.03	7215417	2749257	508.61	492.23			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D			**Vial:**	1
Acqu Date:	08/25/2015 15:46	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9500157	3507373	53.67	44.59			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.63	8273973	4077307	52.32	49.51			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	456.24	402.04			
Aroclor 1016 {1}	4.24	4.62	1697395m	745712	472.95	405.70			
Aroclor 1016 {2}	4.74	4.95	1411588m	997182	471.14	409.59			
Aroclor 1016 {3}	4.94	5.59	4315557m	1175804	436.31	392.03			
Aroclor 1016 {4}	5.21	5.92	2241897m	880216	451.88	401.01			
Aroclor 1016 {5}	5.50	6.12	2323838m	866415	448.93	401.85			
Aroclor 1260			0	0	490.82	474.81			
Aroclor 1260 {1}	7.08	7.83	4535218	976200	460.40	442.54			
Aroclor 1260 {2}	8.10	9.27	4005424	1820682	493.65	481.68			
Aroclor 1260 {3}	8.65	9.72	4084357	1716677	496.22	475.69			
Aroclor 1260 {4}	9.11	10.40	9309572	4161232	495.22	481.93			
Aroclor 1260 {5}	9.90	11.03	7215417	2749257	508.61	492.23			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
/: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D
Inj Date : 25-AUG-2015 15:46
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	9500157	3507373	53.7	44.6		100.00
Aroclor 1016	4.241	4.624	1697395	745712	473	406	80.00- 120.00	100.00(M)
	4.744	4.954	1411588	997182	471	410	68.02- 102.04	83.16(M)
	4.941	5.591	4315557	1175804	436	392	217.78- 326.67	254.25(M)
	5.211	5.924	2241897	880216	452	401	103.05- 154.58	132.08(M)
	5.504	6.121	2323838	866415	449	402	104.78- 157.16	136.91(M)
		Average of Peak Amounts =			456	402		
Aroclor 1260	7.081	7.834	4535218	976200	460	443	80.00- 120.00	100.00
	8.097	9.271	4005424	1820682	494	482	70.16- 105.25	88.32
	8.651	9.721	4084357	1716677	496	476	71.52- 107.28	90.06
	9.114	10.398	9309572	4161232	495	482	162.72- 244.08	205.27
	9.897	11.034	7215417	2749257	509	492	127.86- 191.79	159.10
		Average of Peak Amounts =			491	475		
Decachlorobiphenyl	12.264	13.628	8273973	4077307	52.3	49.5		100.00

QC Flag Legend

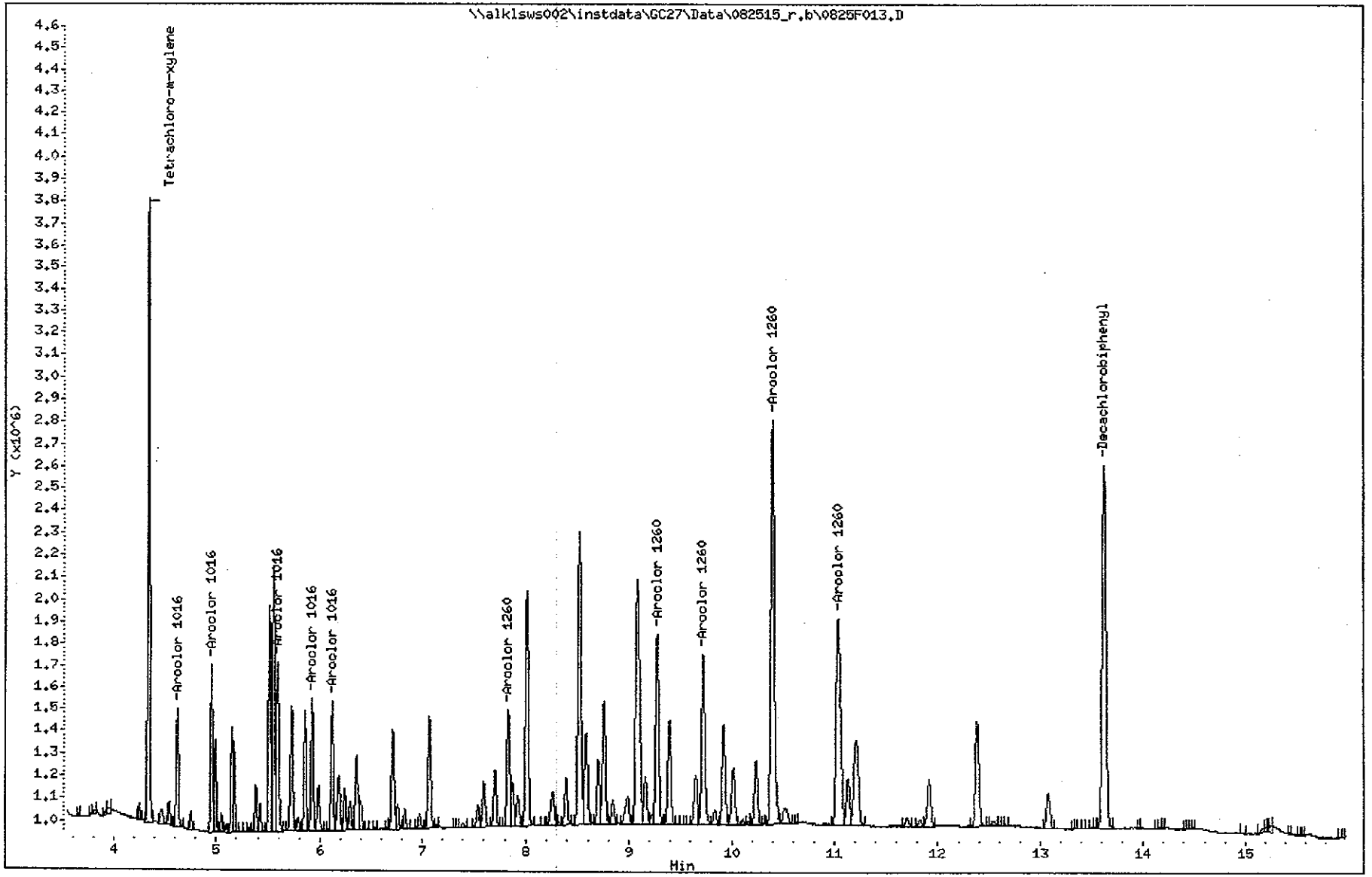
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D
Date : 25-AUG-2015 15:46
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

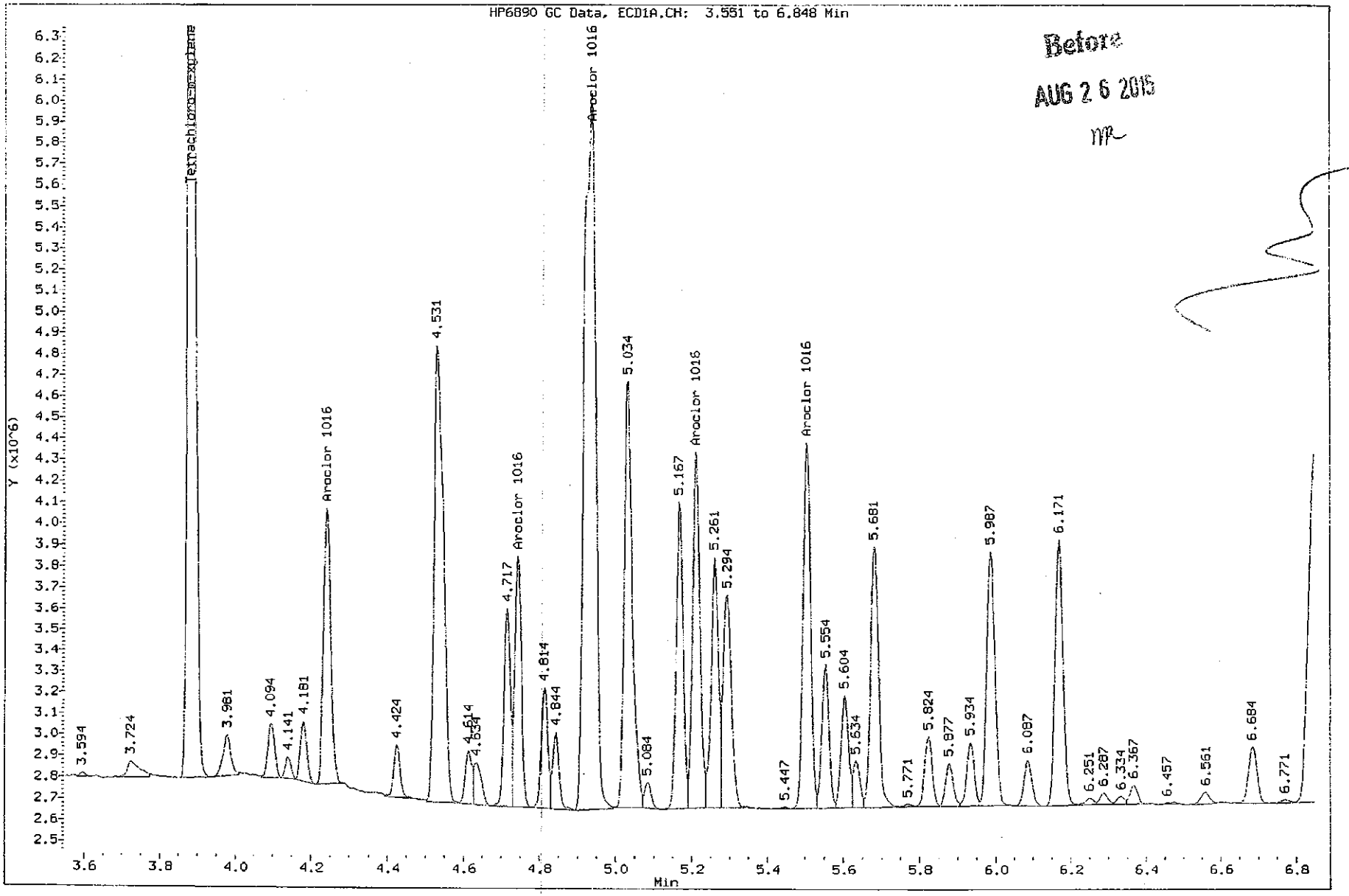
Column phase: DB-XLB

Instrument: GC27.i

Operator: HR
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Injection Date: 25-AUG-2015 15:46
Instrument: GC27.i
Client Sample ID:



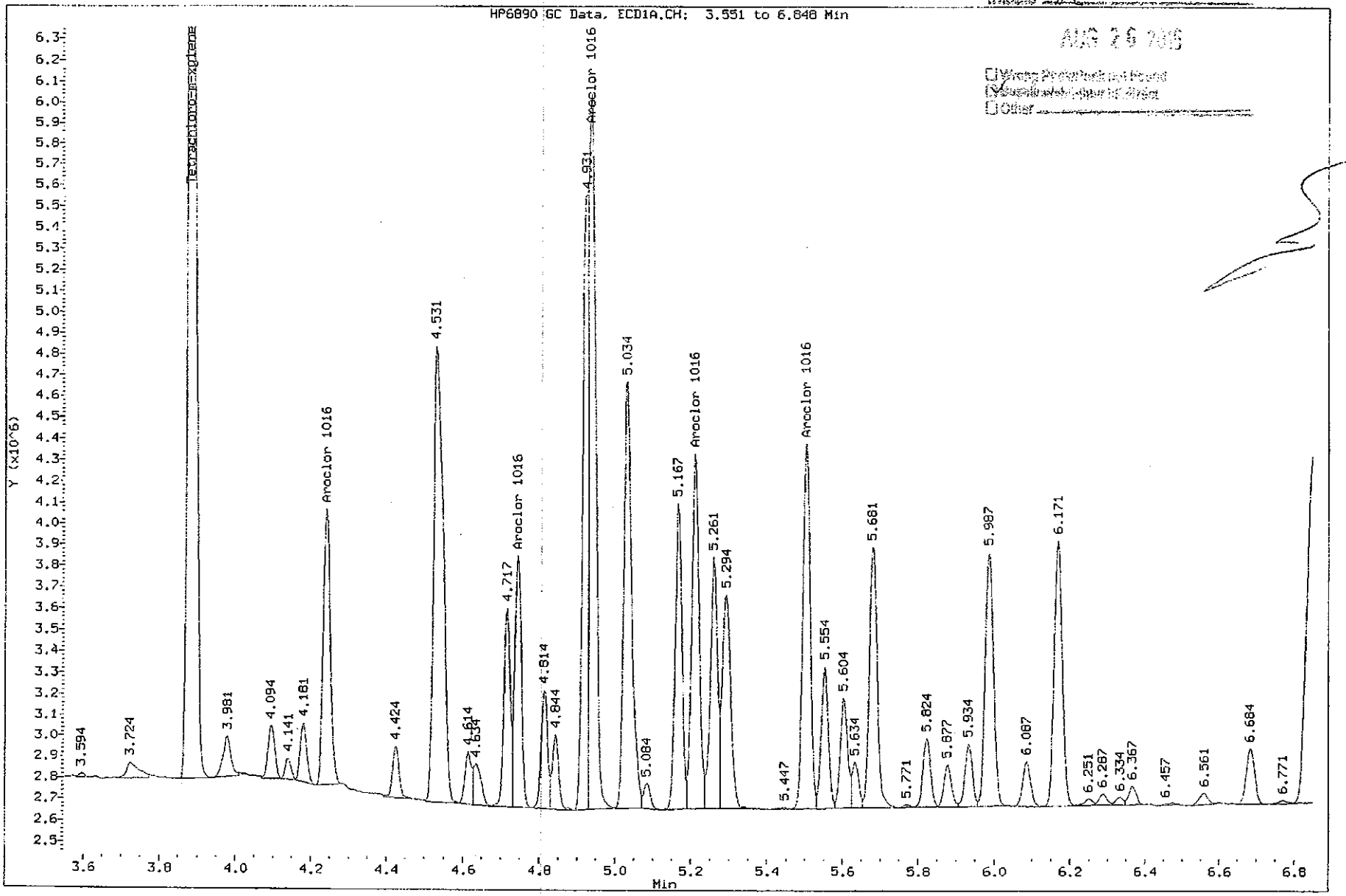
Before
AUG 26 2015
MR

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Injection Date: 25-AUG-2015 15:46
Instrument: GC27.i
Client Sample ID:

After
Initials M

AUG 26 2015

☐ Wrong Peak/Peak not Found
☒ Baseline/Adjust Peak
☐ Other



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F014.D
Lab ID: KWG1508064-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 16:10
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 08/26/15

Secondary Review:

Printed: 08/26/2015 09:52:35
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F014.D	**Date Acquired:**	08/25/2015 16:10
Lab ID:	KWG1508064-4	**Date Quantitated:**	08/26/2015 09:28
RunType:	IB	**Batch ID:**	KWG1508064
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TCV ok
	Aroclor 1260	22.7	NA	20	TCV Dual

Primary Review: MMC 08/26/15

Secondary Review:

Printed: 08/26/2015 09:52:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.27	13.62	7746	5558	0.0490	0.0670				NA
			%Recovery =		NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result: >= MRL, but MRL less than low point of ICAL
c check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000				NA
			%Recovery =		NA		NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.62	7746	5558	0.0490	0.0670				NA
			%Recovery =		NA		NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d. Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
&: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D
Inj Date : 25-AUG-2015 16:10
Sample Info: IB
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

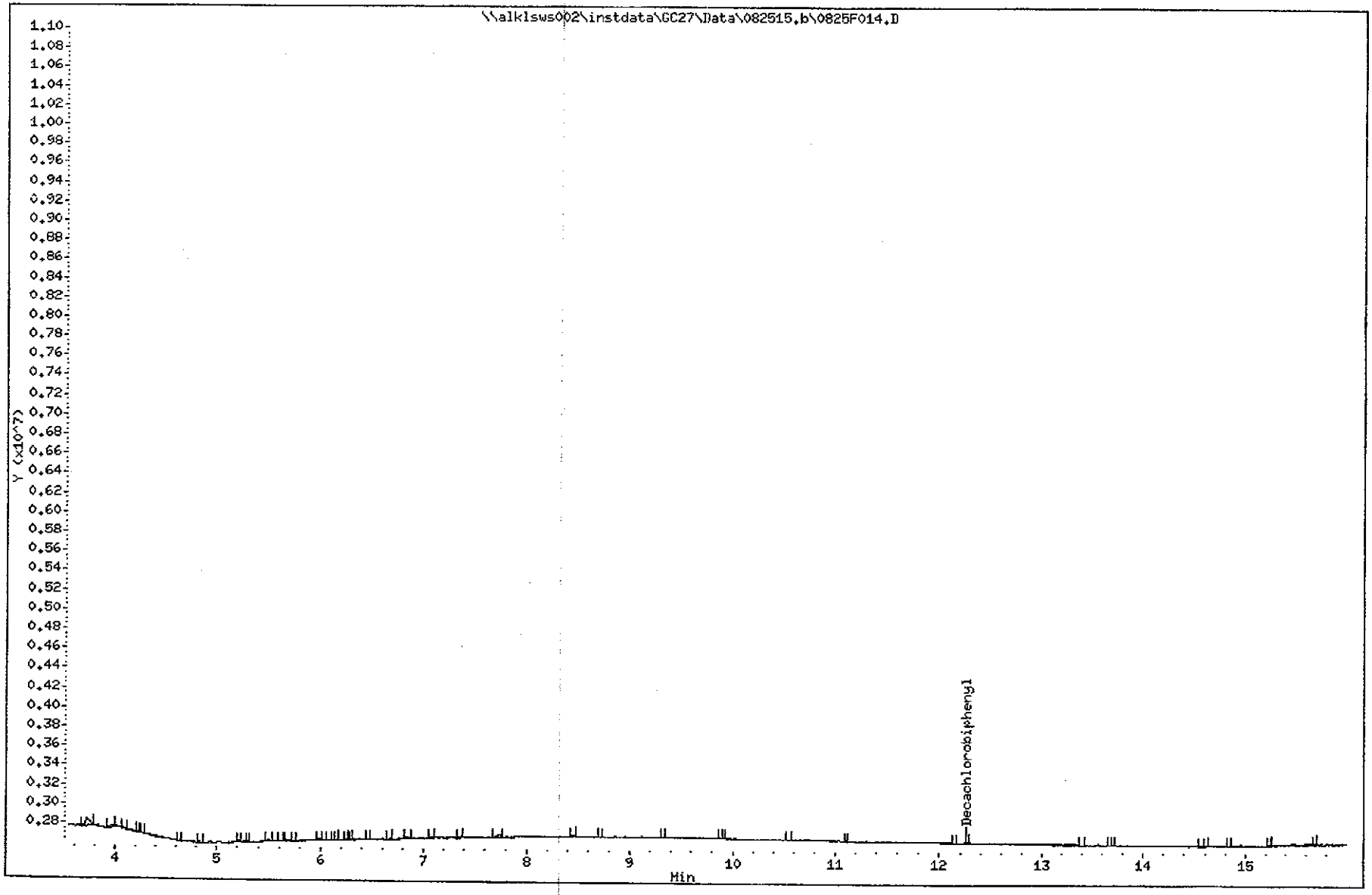
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.274	13.624	7746	5558	0.0490	0.0675		100.00

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Date : 25-AUG-2015 16:10
Client ID:
Sample Info: IB

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F027.D
Lab ID: KWG1508064-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 21:16
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OC

Primary Review: MR 03/26/15

Secondary Review:

Printed: 08/26/2015 09:53:54
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F027.D
Lab ID: KWG1508064-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 21:16
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV dc

Primary Review: mmc 08/26/15

Secondary Review:

Printed: 08/26/2015 09:53:58
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F027.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F027.D			**Vial:**	1
Acqu Date:	08/25/2015 21:16	**Quant Date:**	08/26/2015 11:40	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	10092934	3677358	57.01	46.75				NA
				%Recovery =	NA	NA	Limits =	10-135		
Decachlorobiphenyl	12.26	13.63	8386030	4380884m	53.03	53.20				NA
				%Recovery =	NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	499.90	415.61			
Aroclor 1016 {1}	4.24	4.62	1851072m	778337	515.77	423.44			
Aroclor 1016 {2}	4.74	4.95	1573954m	1045188	525.34	429.31			
Aroclor 1016 {3}	4.94	5.59	5039073m	1217285	509.46	405.87			
Aroclor 1016 {4}	5.21	5.92	2384468m	896150	480.62	408.27			
Aroclor 1016 {5}	5.50	6.12	2424335m	886521	468.34	411.19			
Aroclor 1260			0	0	499.94	496.49			
Aroclor 1260 {1}	7.08	7.83	4637007	1019629	470.73	462.23			
Aroclor 1260 {2}	8.09	9.27	4066886	1888966	501.23	499.75			
Aroclor 1260 {3}	8.65	9.72	4145389	1732948	503.63	480.20			
Aroclor 1260 {4}	9.11	10.40	9431716	4335092	501.72	502.07			
Aroclor 1260 {5}	9.89	11.03	7411221	3006014	522.41	538.20			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F027.D
Report Date: 26-Aug-2015 11:40

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F027.D
Inj Date : 25-AUG-2015 21:16
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.340	10092934	3677358	57.0	46.8		100.00
Aroclor 1016	4.239	4.620	1851072	778337	516	423	80.00- 120.00	100.00(M)
	4.743	4.953	1573954	1045188	525	429	68.02- 102.04	85.03(M)
	4.936	5.590	5039073	1217285	509	406	217.78- 326.67	272.22(M)
	5.209	5.923	2384468	896150	481	408	103.05- 154.58	128.82(M)
	5.503	6.116	2424335	886521	468	411	104.78- 157.16	130.97(M)
		Average of Peak Amounts =			500	415		
Aroclor 1260	7.076	7.833	4637007	1019629	471	462	80.00- 120.00	100.00
	8.093	9.270	4066886	1888966	501	500	70.16- 105.25	87.70
	8.646	9.720	4145389	1732948	504	480	71.52- 107.28	89.40
	9.109	10.396	9431716	4335092	502	502	162.72- 244.08	203.40
	9.893	11.030	7411221	3006014	522	538	127.86- 191.79	159.83
		Average of Peak Amounts =			500	496		
Decachlorobiphenyl	12.263	13.626	8386030	4380884	53.0	53.2		100.00

QC Flag Legend

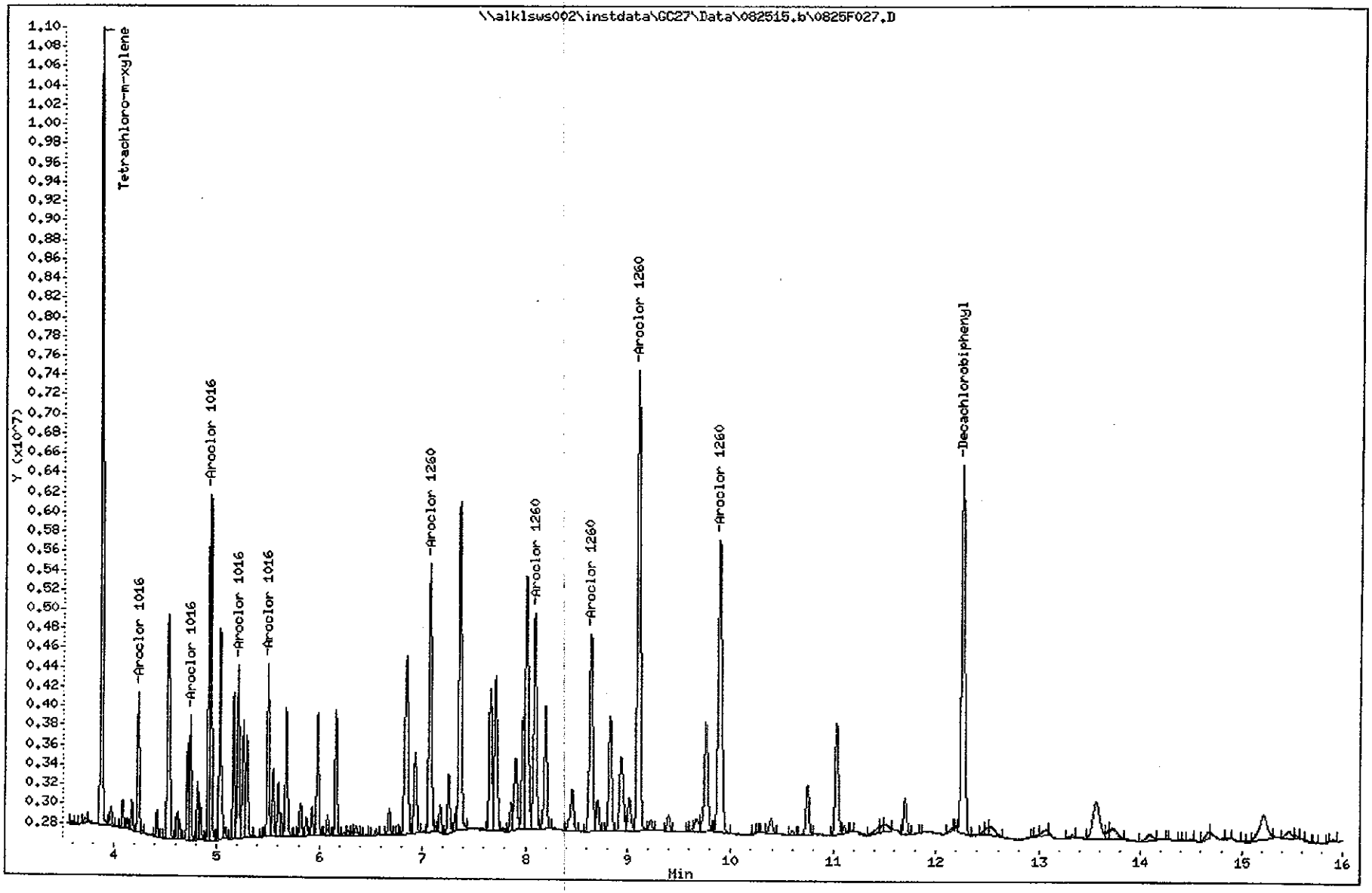
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F027.D
Date : 25-AUG-2015 21:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

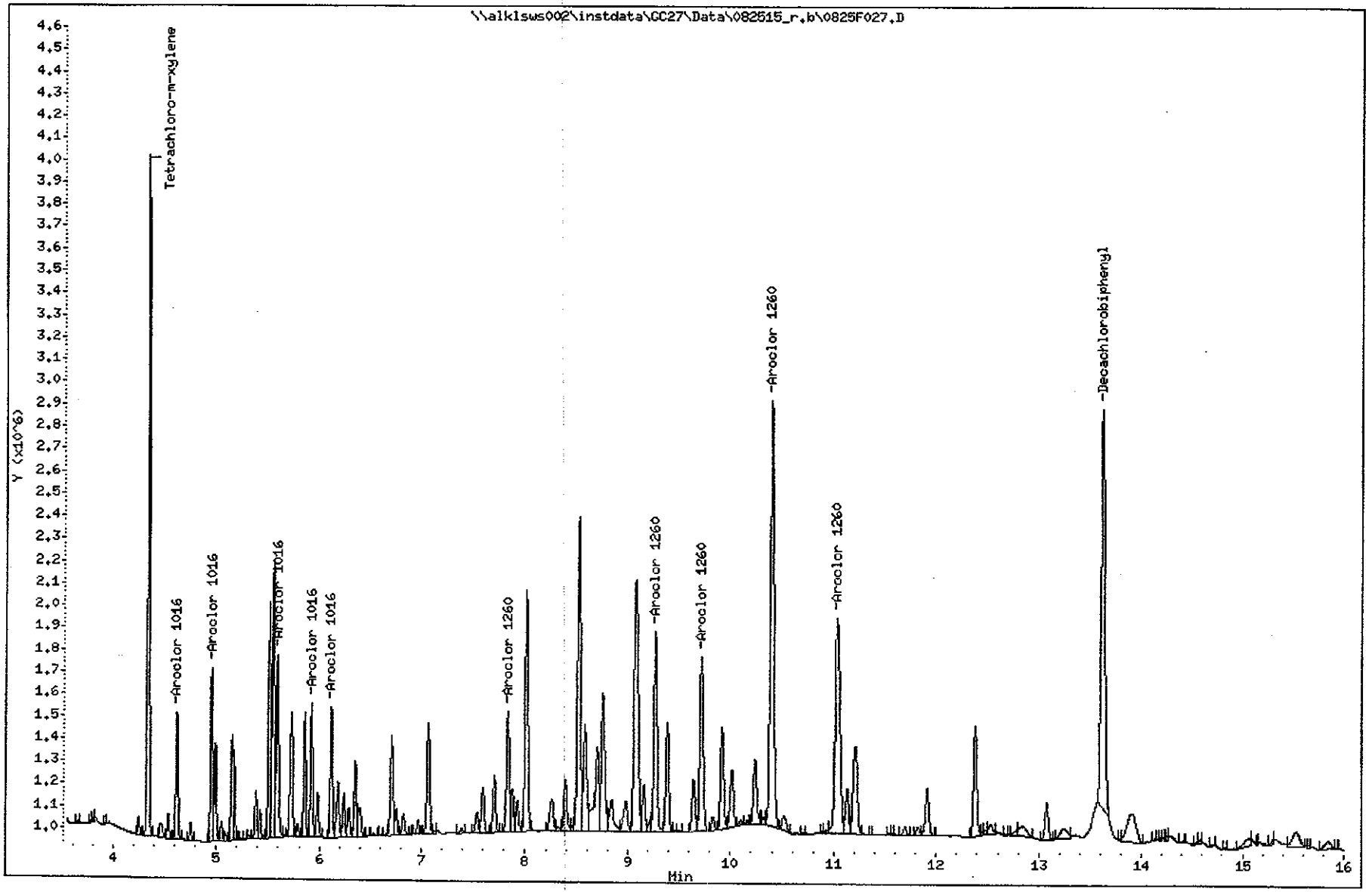


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F027.D
Date : 25-AUG-2015 21:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

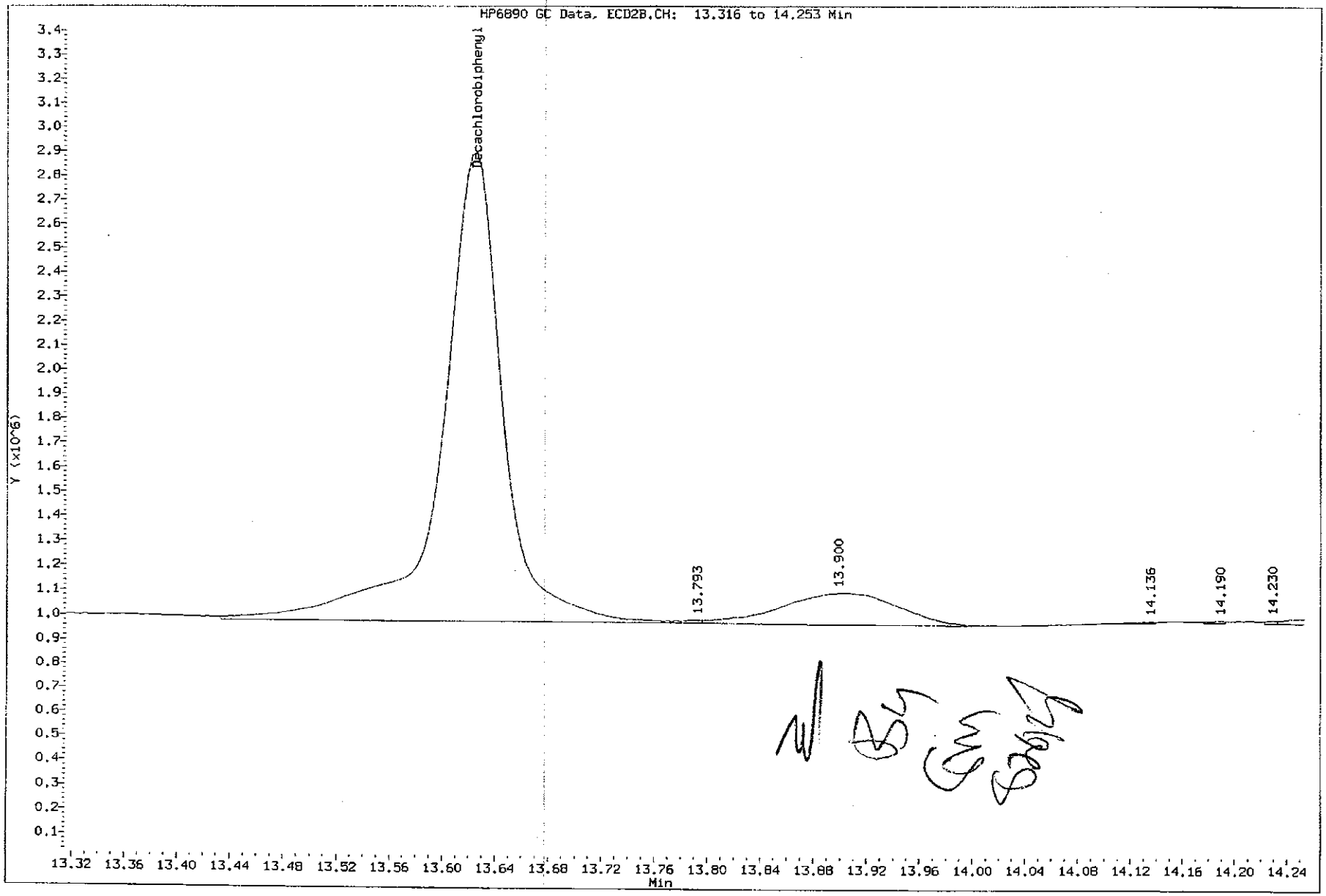
Column phase: DB-XLB

Instrument: GC27.i

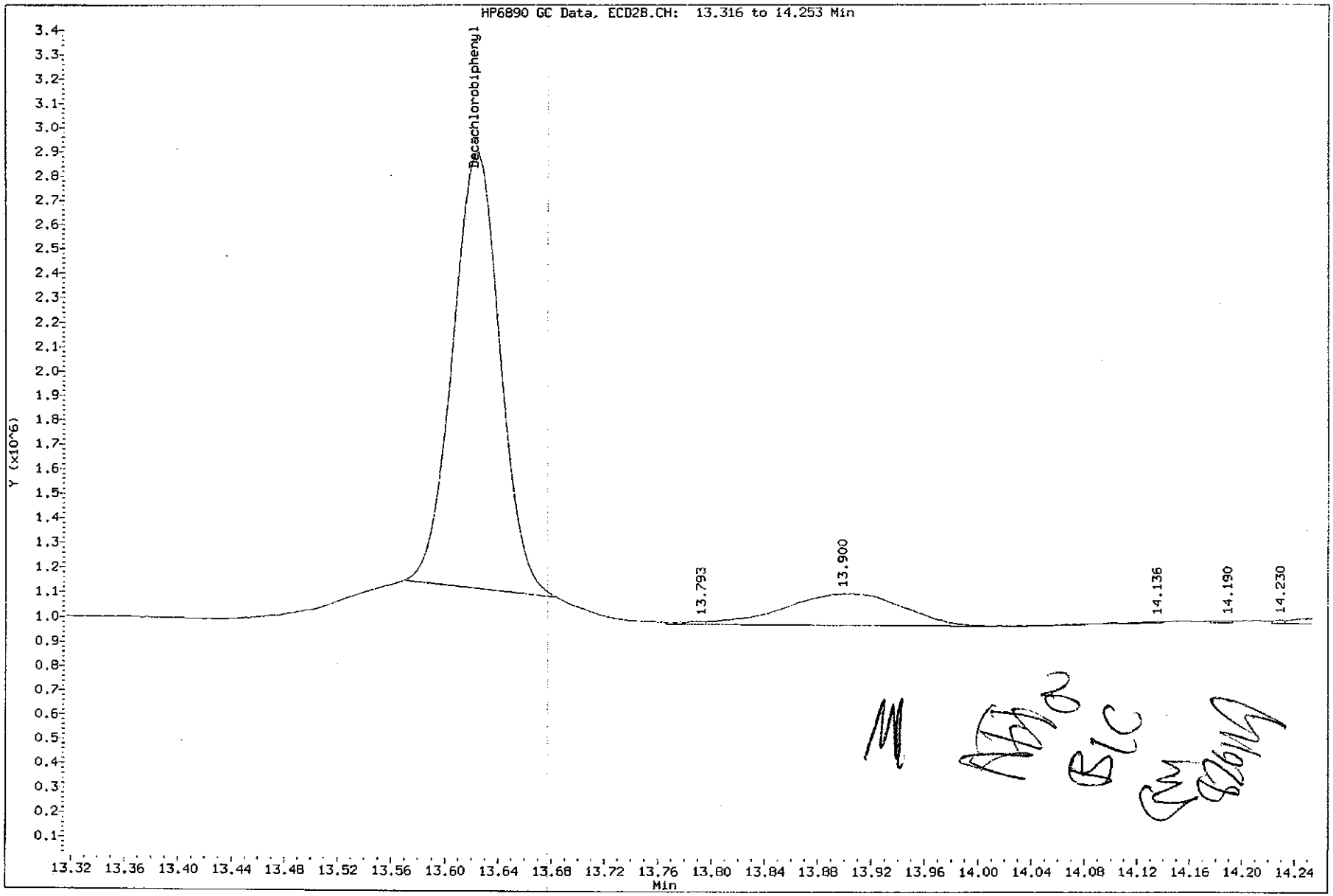
Operator: MR
Column diameter: 0.32



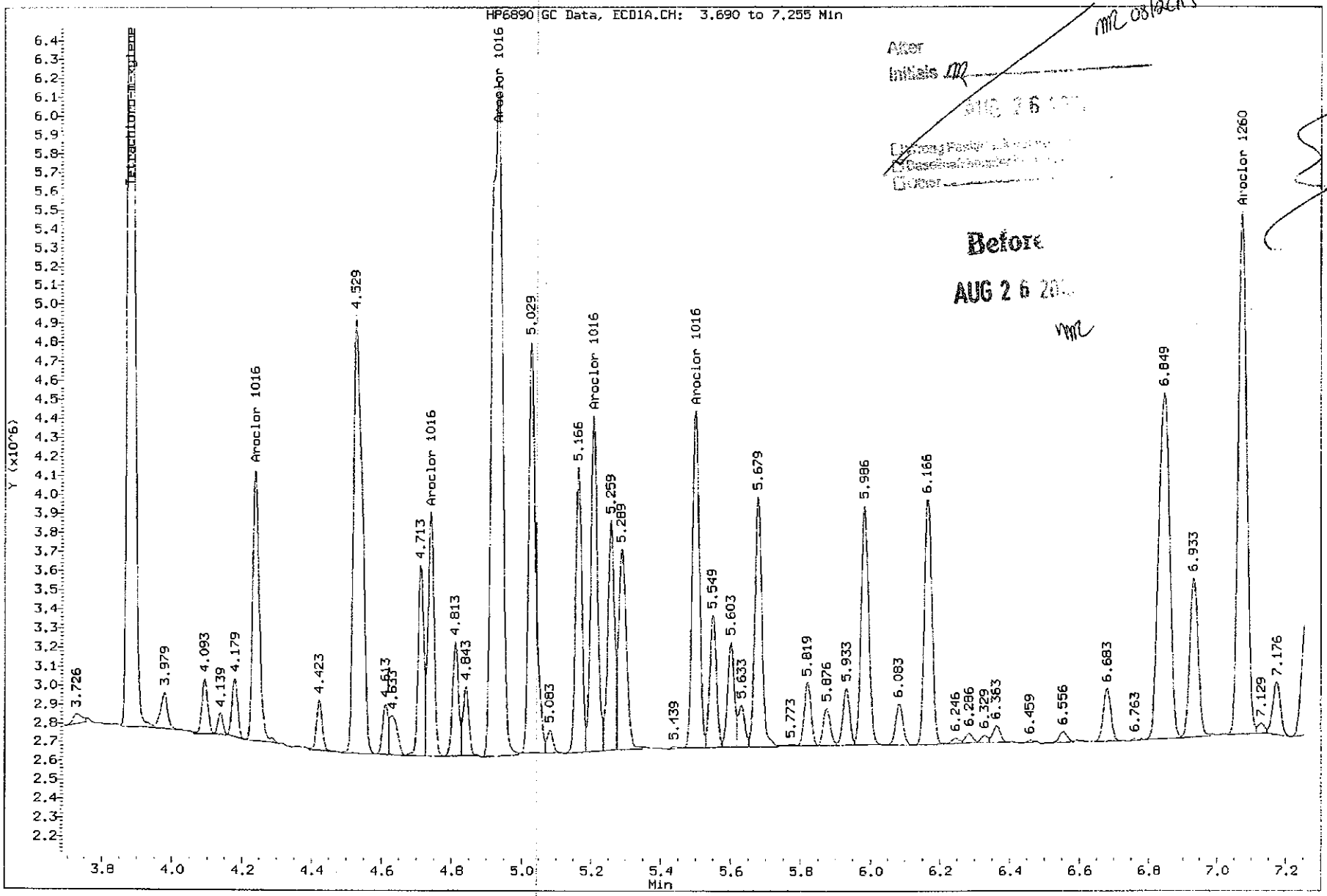
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F027.D
Injection Date: 25-AUG-2015 21:16
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F027.D
Injection Date: 25-AUG-2015 21:16
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F027.D
Injection Date: 25-AUG-2015 21:16
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F028.D
Lab ID: KWG1508064-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 21:39
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV Dual

Primary Review: ML 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:54:03
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F028.D
Lab ID: KWG1508064-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 21:39
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TOV ok
	Aroclor 1260	22.7	NA	20	TOV Dual

Primary Review: MMC 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:54:09
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F028.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F028.D			**Vial:**	99
Acqu Date:	08/25/2015 21:39	**Quant Date:**	08/26/2015 09:28	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27	13.62	27301	196689	0.1730	2.39			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
b: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F028.D			**Instrument:**	GC27.i
Data File #2:	\\alkisws002\instdata\GC27\Data\082515_r.b\0825F028.D			**Vial:**	99
Acqu Date:	08/25/2015 21:39	**Quant Date:**	08/26/2015 09:28	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul: fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F028.D
Report Date: 26-Aug-2015 09:28

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F028.D
Inj Date : 25-AUG-2015 21:39
Sample Info: IB
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.877	4.360	17743	6800	0.100	0.0865		100.00
Decachlorobiphenyl	12.270	13.617	27301	196689	0.173	2.39		100.00

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV OK
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	nR

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:50
u:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/26/15

Secondary Review: _____

Printed: 08/26/2015 09:51:54
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Acqu Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458722	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respc #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	12923724	5003159	73.01 CCV	63.61			64	OK
			%Recovery =		73 OK	64 OK	Limits =	10-135		
Decachlorobiphenyl	12.26 +0.00	13.63 +0.00	12037920	6116497	76.13	74.27			76	OK
			%Recovery =		76 OK	74 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	685.70	601.86	137	120	120
Aroclor 1016 {1}	4.24 +0.00	4.62 0.00	2711257m	1179787	755.44	641.85	151	128	
Aroclor 1016 {2}	4.74 +0.00	4.96 +0.00	2154258m	1503163	719.02	617.42	144	123	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	6405854m	1726644	647.64	575.69	130	115	
Aroclor 1016 {4}	5.21 +0.00	5.92	3258241m	1271469	656.73	579.25	131	116	
Aroclor 1016 {5}	5.50	6.12 +0.00	3362978m	1283054	649.67	595.11	130	119	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Acqu Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			12630325	5133765	1,447	1,374	289J	275J	**289J**
Aroclor 1260			0	0	761.59	772.02	152	154	**152**
Aroclor 1260 {1}	7.08 +0.00	7.84 +0.00	6254963	1499096	634.98	679.59	127	136	
Aroclor 1260 {2}	8.09	9.27 -0.00	6541261	3077970	806.19	814.31	161	163	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.00	6505331	2806207	790.35	777.60	158	156	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.00	14646545	6933669	779.13	803.02	156	161	
Aroclor 1260 {5}	9.89	11.04 +0.01	11310937	4387766	797.29	785.59	159	157	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR. Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Inj Date : 25-AUG-2015 12:38
Sample Info: KWG1507645-3 LCS
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	12923724	5003159	73.0	63.6		100.00
Aroclor 1016	4.238	4.618	2711257	1179787	755	642	80.00- 120.00	100.00(M)
	4.744	4.955	2154258	1503163	719	617	68.02- 102.04	79.46(M)
	4.938	5.588	6405854	1726644	648	576	217.78- 326.67	236.27(M)
	5.211	5.921	3258241	1271469	657	579	103.05- 154.58	120.17(M)
	5.501	6.118	3362978	1283054	650	595	104.78- 157.16	124.04(M)
		Average of Peak Amounts =			686	602		
Aroclor 1260	7.078	7.835	6254963	1499096	635	680	80.00- 120.00	100.00(H)
	8.094	9.271	6541261	3077970	806	814	70.16- 105.25	104.58(H)
	8.648	9.721	6505331	2806207	790	778	71.52- 107.28	104.00(H)
	9.111	10.395	14646545	6933669	779	803	162.72- 244.08	234.16(H)
	9.894	11.035	11310937	4387766	797	786	127.86- 191.79	180.83(H)
		Average of Peak Amounts =			761	772		
Decachlorobiphenyl	12.264	13.625	12037920	6116497	76.1	74.3		100.00
Aroclors, Total	0.000	0.000	12630325	5133765	1450	1370		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

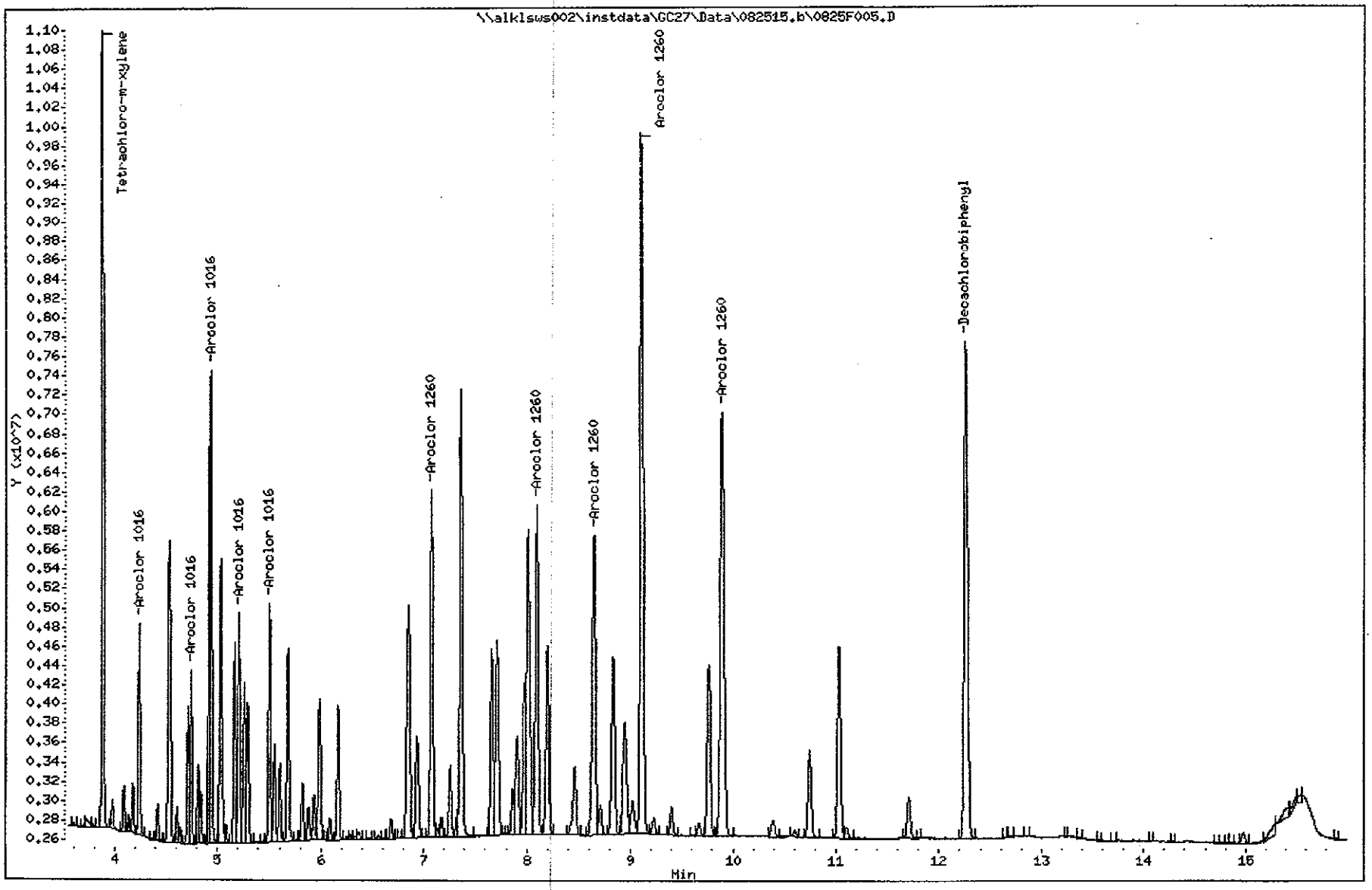
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



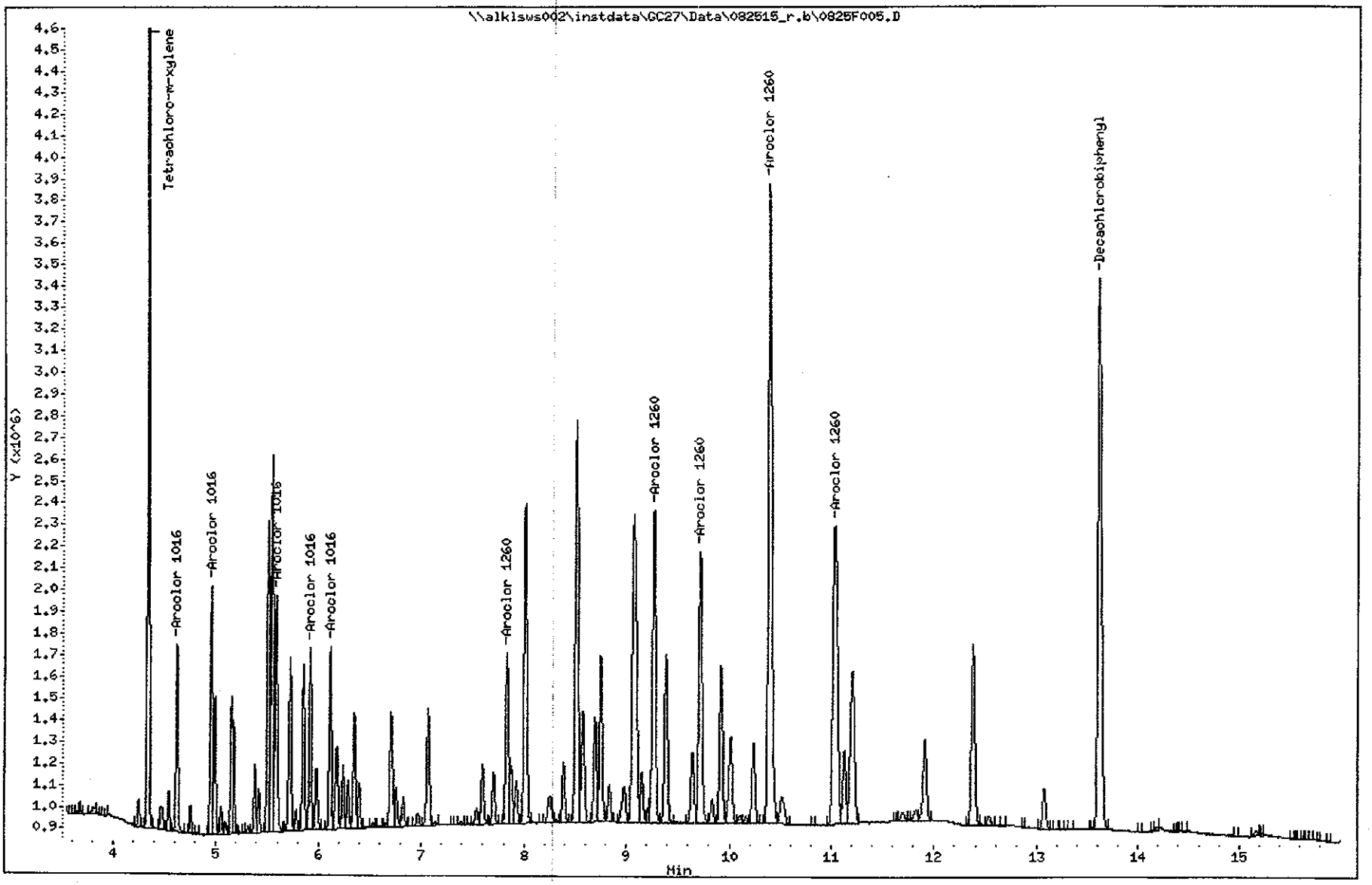
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

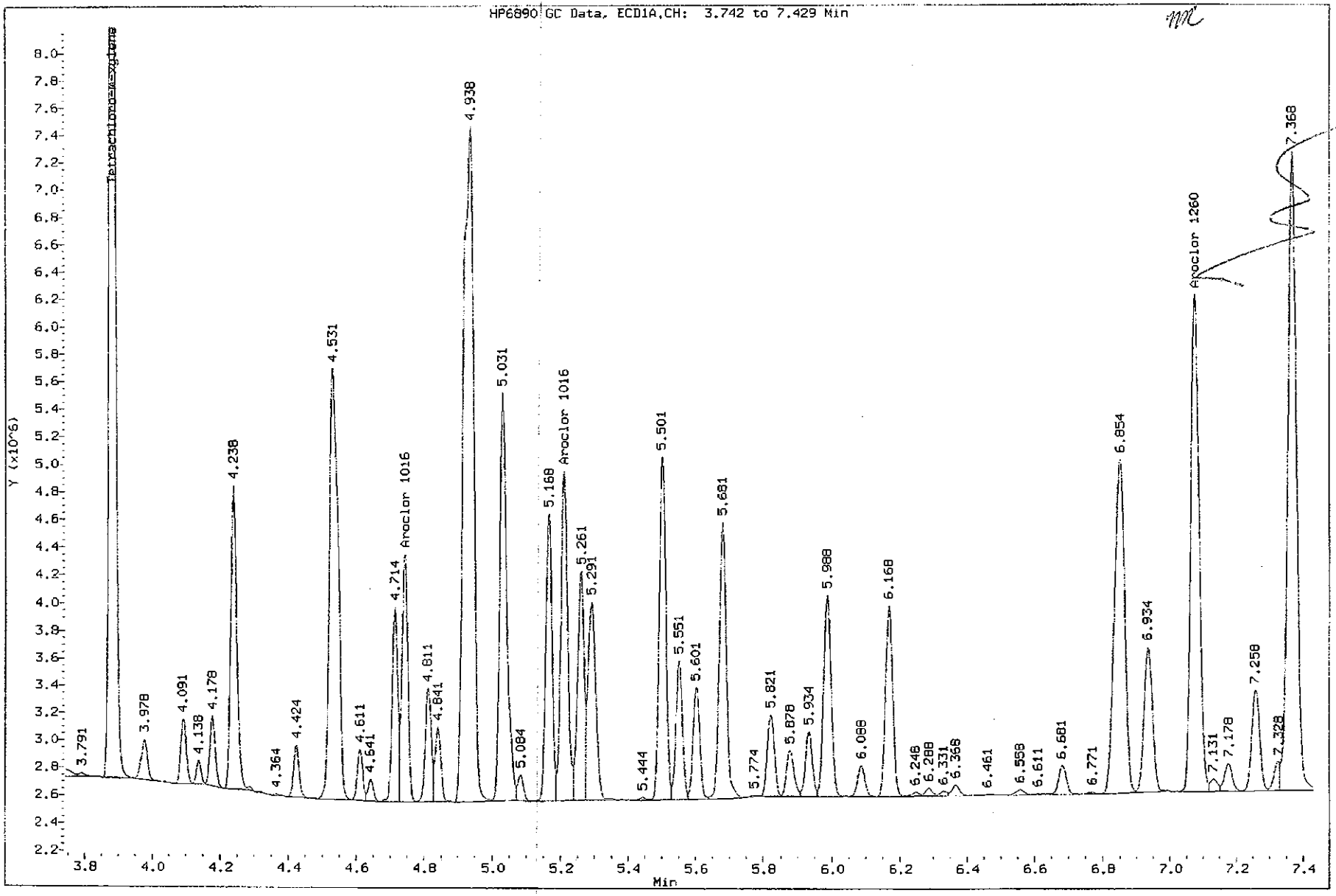
Column diameter: 0.32



Before

AUG 2 6 2015

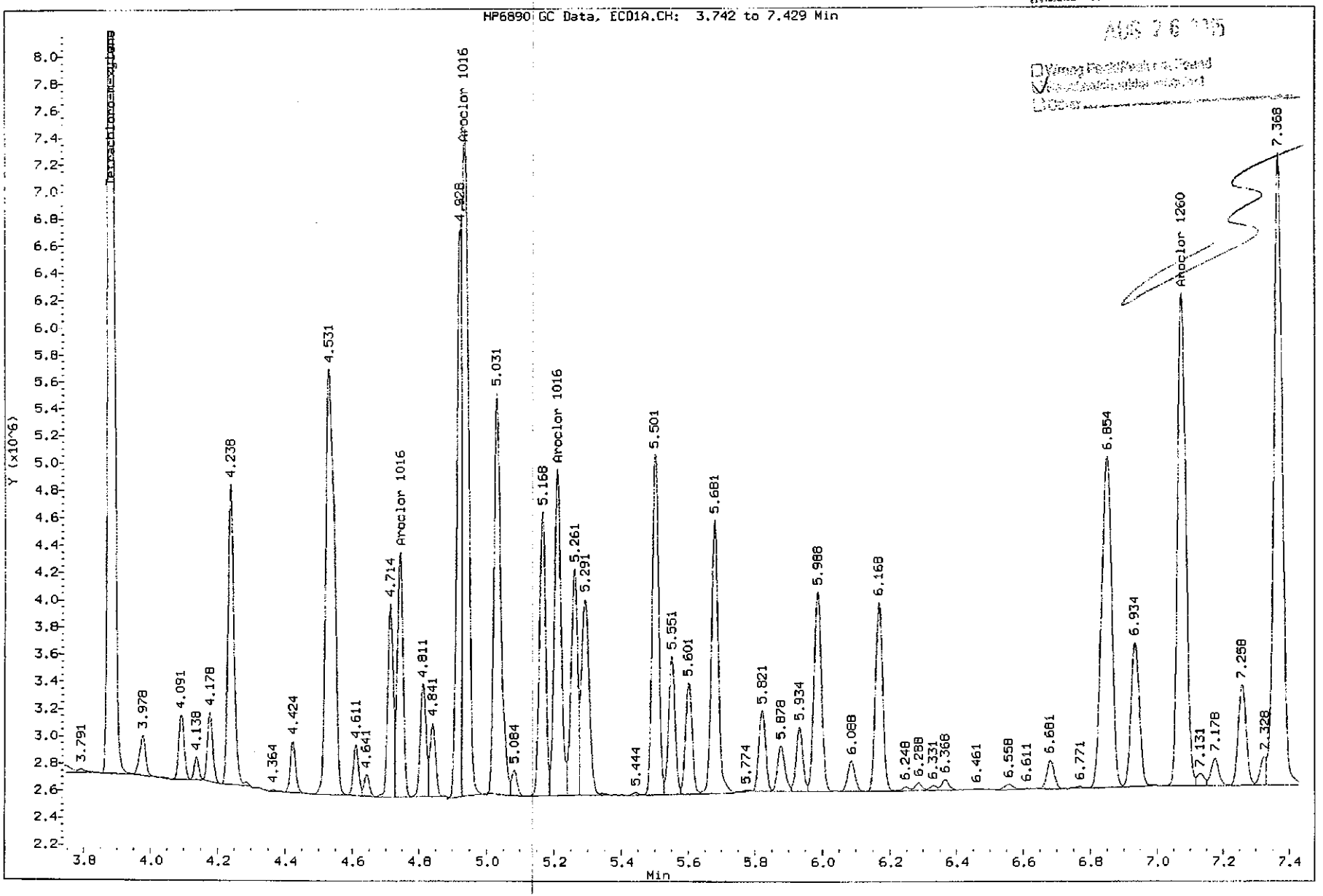
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:

After
Initials

AUG 26 '15



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	DR

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:59
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IQ ok
	Aroclor 1260	22.7	NA	20	IQ Qual

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:52:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458723	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	14786695	5511595	83.53CCV	70.07			70 OK
				%Recovery =	84 OK	70 OK	Limits =	10-135	
Decachlorohiphenyl	12.26 +0.00	13.63 +0.00	13992543	6978725	88.49	84.75			88 OK
				%Recovery =	88 OK	85 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.441 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul. fails acceptance criteria
#: Acceptance criteria not applicable
? Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Inj Date : 25-AUG-2015 13:01
Sample Info: KWG1507646-4 MB
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.338	14786695	5511595	83.5	70.1		100.00
Decachlorobiphenyl	12.262	13.625	13992543	6978725	88.5	84.7		100.00

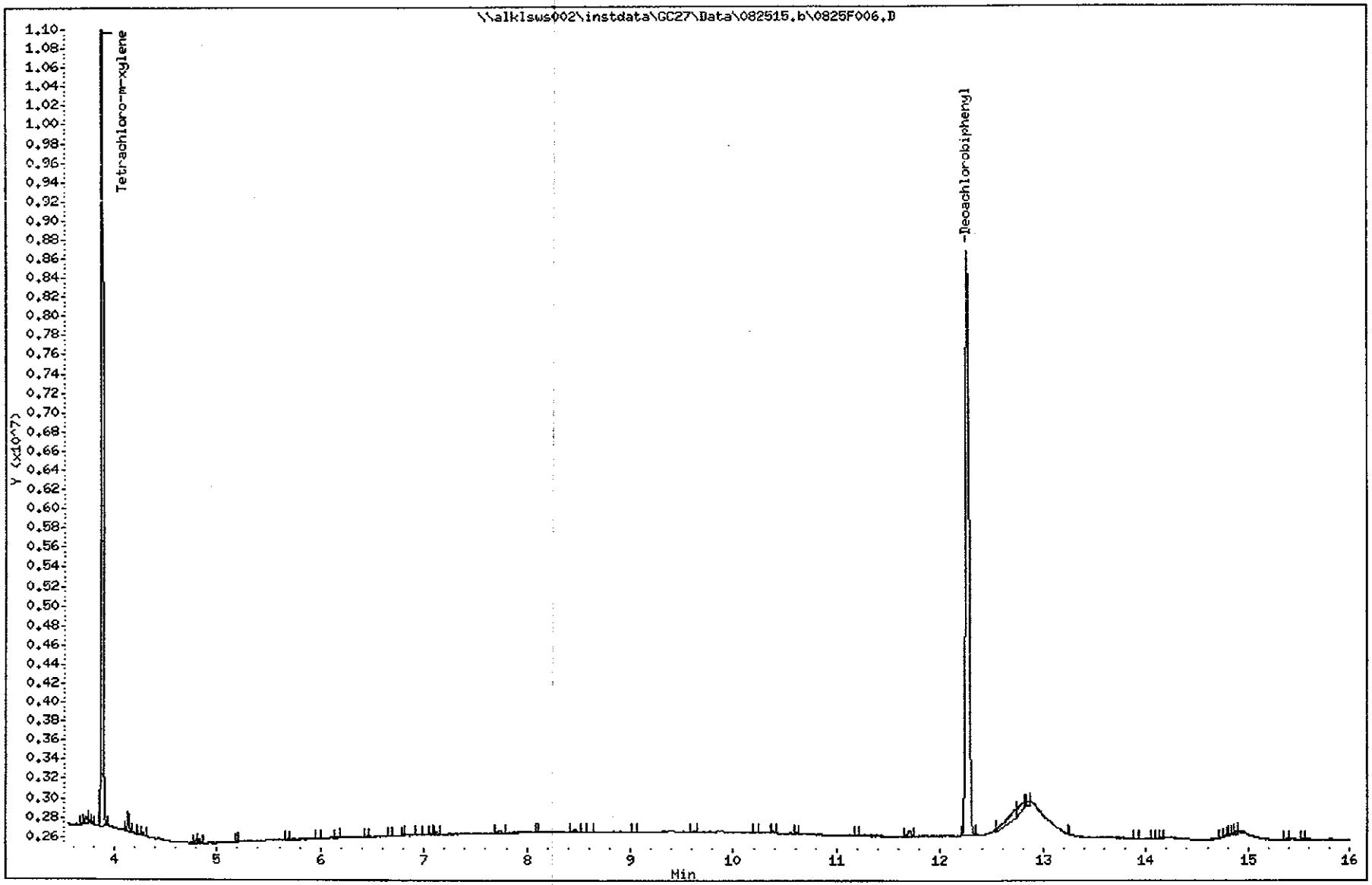
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



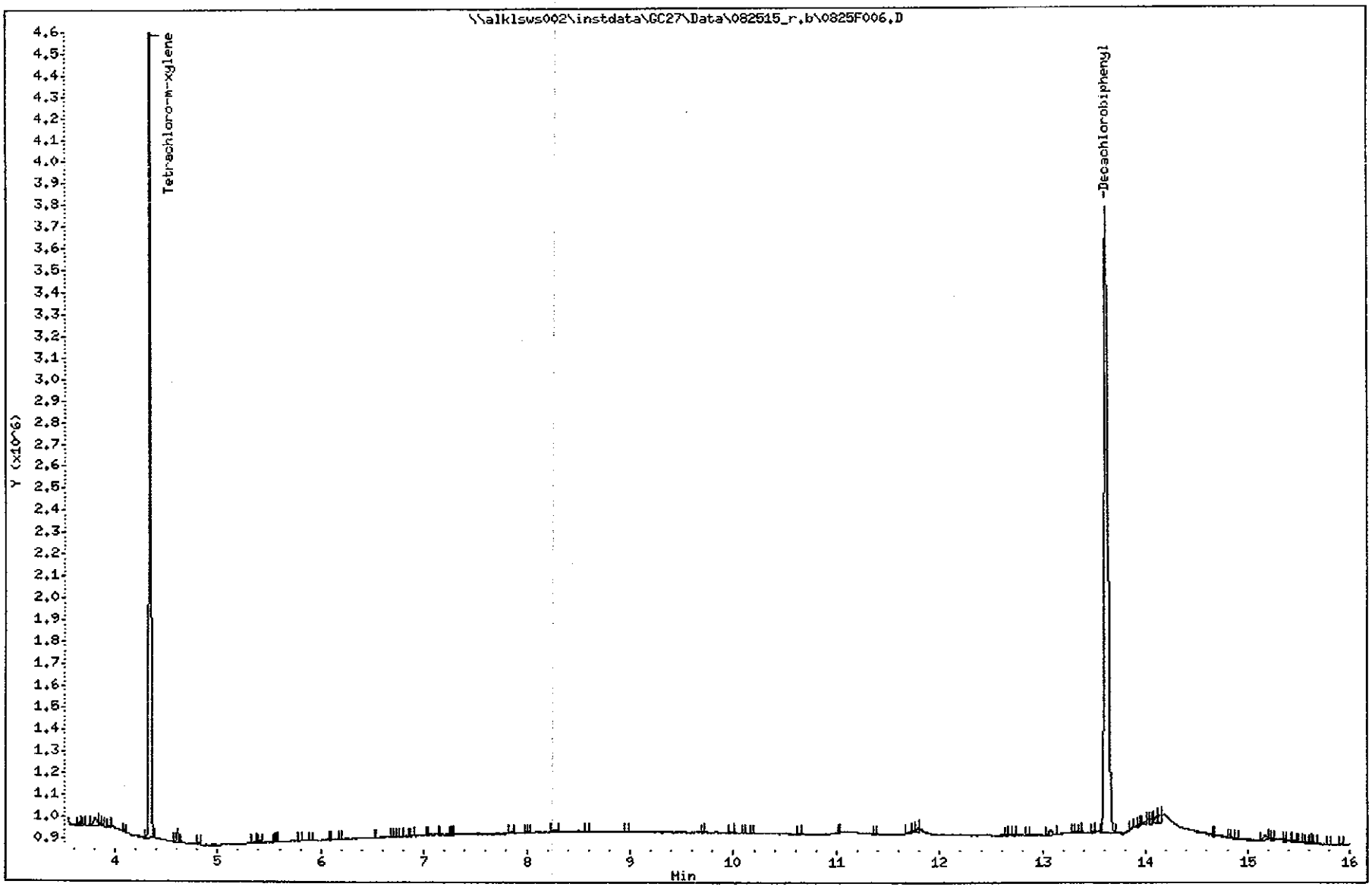
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F015.D
Lab ID: KWG1507602-1
RunType: LCS
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 16:33
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: mf 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:52:43
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F015.D
Lab ID: KWG1507602-1
RunType: LCS
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 16:33
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual
Continuing Calibration Recovery (Closing)	Decachlorobiphenyl	47.4	NA	20	RO

Primary Review: mmR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:52:48
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F015.D			**Vial:**	14
Acqu Date:	08/25/2015 16:33	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	PAPERBOARD
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507602	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458477	**Prep Date:**	08/14/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F017.D	**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27 +0.00	13.63	12697054	6300861	80.29	76.51			80 OK
				%Recovery =	80 OK	77 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	636.39	533.88	0.127	0.107	**0.107**
Aroclor 1016 {1}	4.24	4.62 0.00	2484996m	1026928	692.40	558.69	0.138	0.112	
Aroclor 1016 {2}	4.74	4.96 +0.00	1896112m	1324826	632.86	544.17	0.127	0.109	
Aroclor 1016 {3}	4.94 0.00	5.59	5996439m	1549549	606.25	516.65	0.121	0.103	
Aroclor 1016 {4}	5.21	5.92	3075324m	1140430	619.86	519.55	0.124	0.104	
Aroclor 1016 {5}	5.50	6.12	3264127m	1143431	630.58	530.35	0.126	0.106	
Aroclor 1221			0	0	0.0000	0.0000	0.019U	0.019U	0.019U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1232			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F015.D			**Vial:**	14
Acqu Date:	08/25/2015 16:33	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclors, Total			12735781	4974202	1,423	1,299	0.285J	0.260J	**0.285J**
Aroclor 1260			0	0	786.50	764.64	0.157	0.153	**0.153**
Aroclor 1260 {1}	7.08	7.84 +0.00	6353340	1434315	644.97	650.22	0.129	0.130	
Aroclor 1260 {2}	8.10	9.27 +0.00	6701995	3056439	826.00	808.62	0.165	0.162	
Aroclor 1260 {3}	8.65	9.72	6661295	2747080	809.30	761.21	0.162	0.152	
Aroclor 1260 {4}	9.11	10.40 +0.00	15511777	7062339	825.15	817.92	0.165	0.164	
Aroclor 1260 {5}	9.90 +0.00	11.04 +0.00	11733504	4385673	827.08	785.21	0.165	0.157	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F015.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F015.D
Inj Date : 25-AUG-2015 16:33
Sample Info: KWG1507602-1 LCS
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	13744045	5100613	77.6	64.8		100.00
Aroclor 1016	4.241	4.621	2484996	1026928	692	559	80.00- 120.00	100.00(MH)
	4.744	4.958	1896112	1324826	633	544	68.02- 102.04	76.30(MH)
	4.937	5.591	5996439	1549549	606	517	217.78- 326.67	241.31(MH)
	5.211	5.924	3075324	1140430	620	520	103.05- 154.58	123.76(MH)
	5.504	6.121	3264127	1143431	631	530	104.78- 157.16	131.35(MH)
		Average of Peak Amounts =			636	534		
Aroclor 1260	7.081	7.838	6353340	1434315	645	650	80.00- 120.00	100.00(H)
	8.097	9.274	6701995	3056439	826	809	70.16- 105.25	105.49(H)
	8.651	9.721	6661295	2747080	809	761	71.52- 107.28	104.85(H)
	9.114	10.401	15511777	7062339	825	818	162.72- 244.08	244.15(H)
	9.901	11.038	11733504	4385673	827	785	127.86- 191.79	184.68(H)
		Average of Peak Amounts =			786	765		
Decachlorobiphenyl	12.267	13.628	12697054	6300861	80.3	76.5		100.00
Aroclors, Total	0.000	0.000	12735781	4974202	1420	1300		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

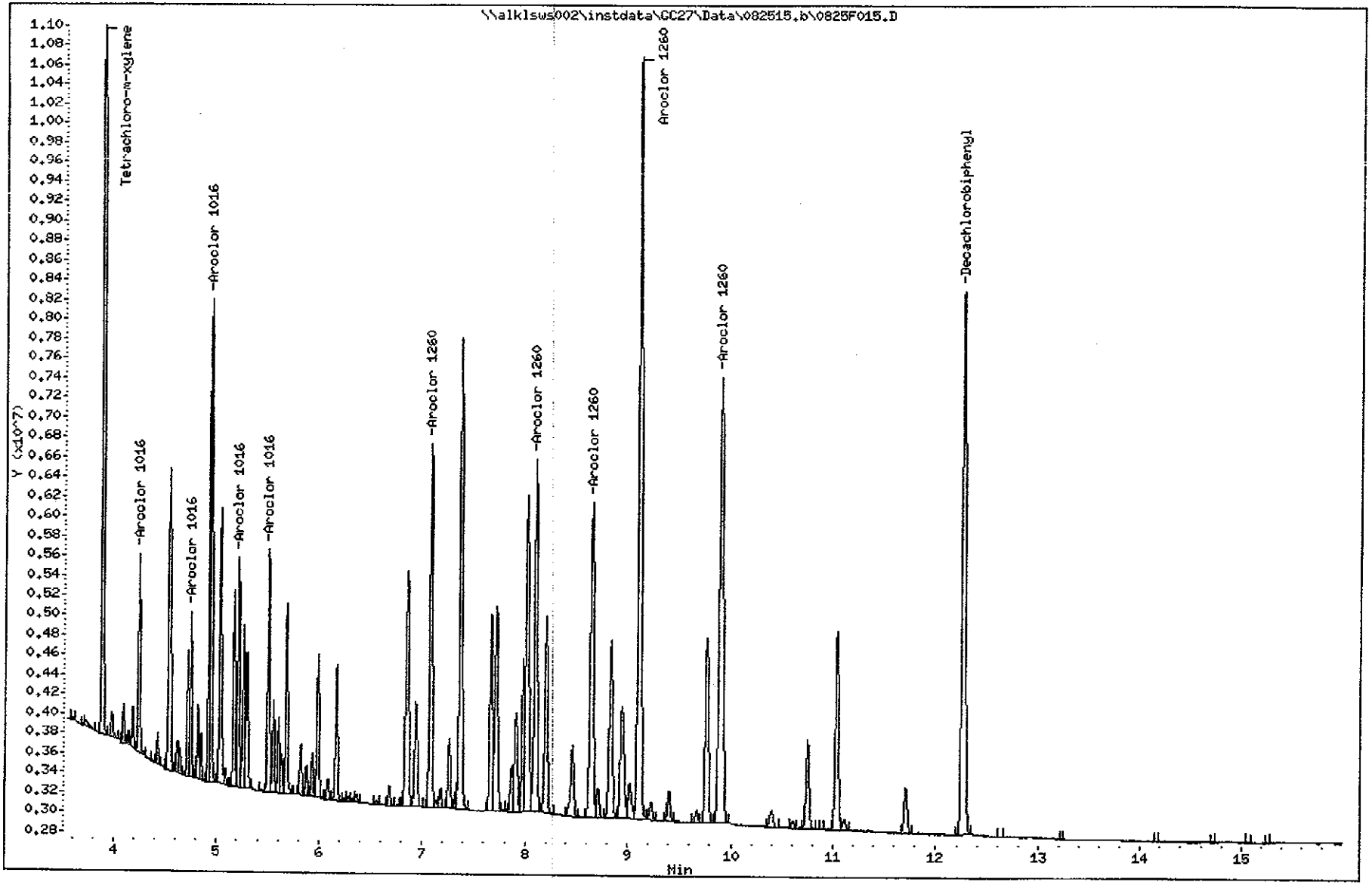
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F015.D
Date : 25-AUG-2015 16:33
Client ID:
Sample Info: KWG1507602-1 LCS

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

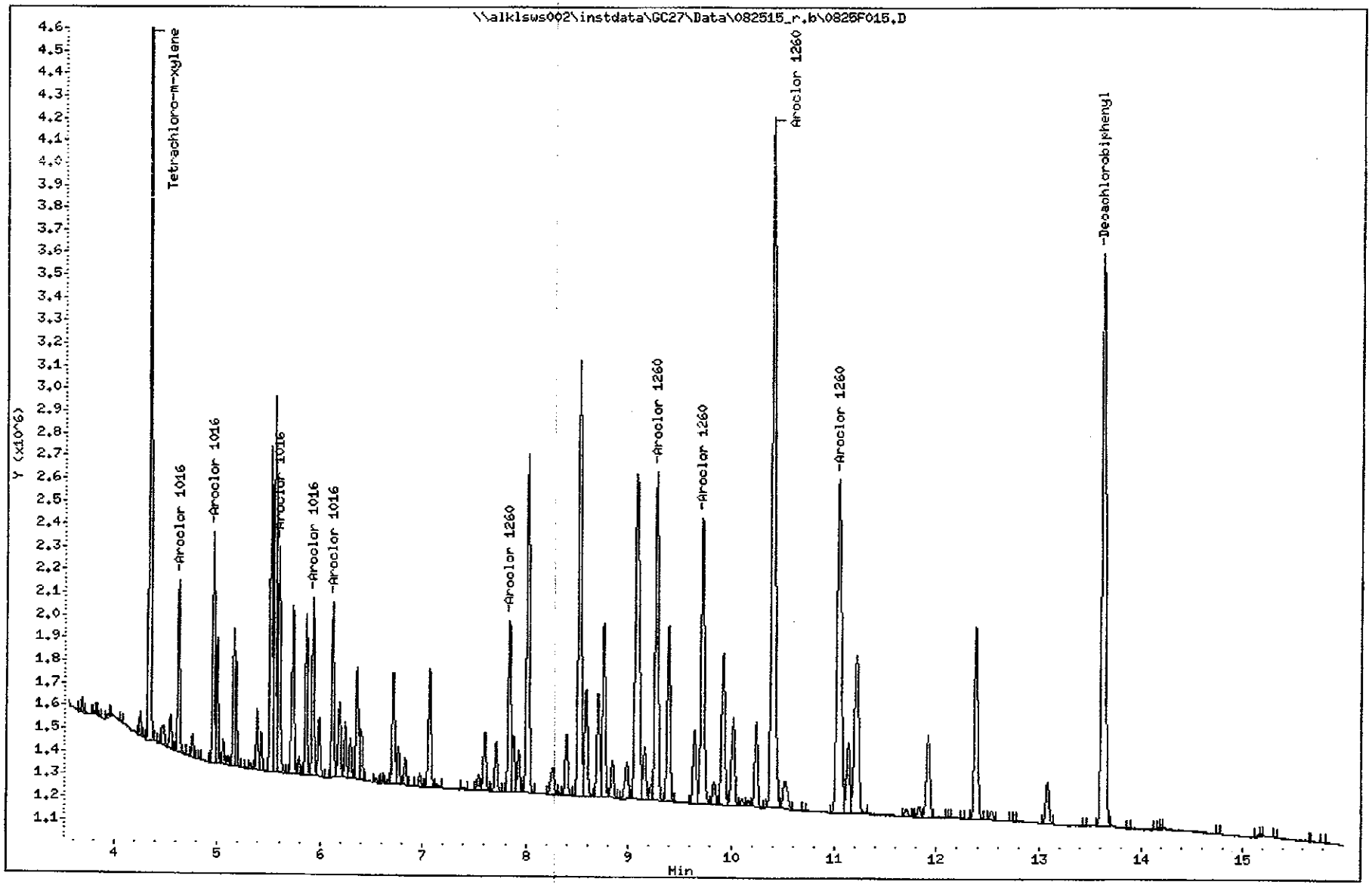
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F015.D
Date : 25-AUG-2015 16:33
Client ID:
Sample Info: KWG1507602-1 LCS

Instrument: GC27.i

Operator: MR
Column phase: DB-XLB
Column diameter: 0.32

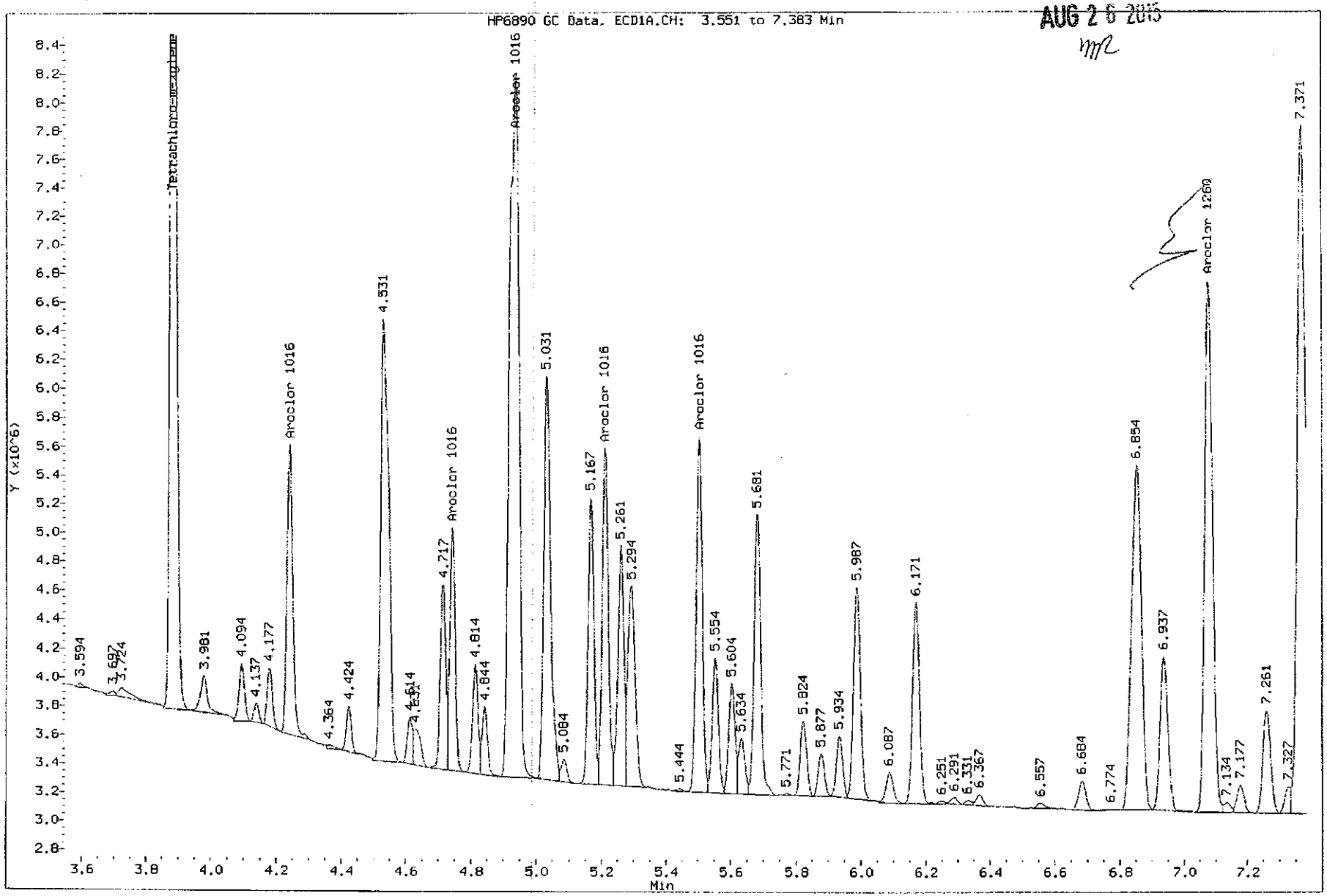


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F015.D
Injection Date: 25-AUG-2015 16:33
Instrument: GC27.i
Client Sample ID:

Before

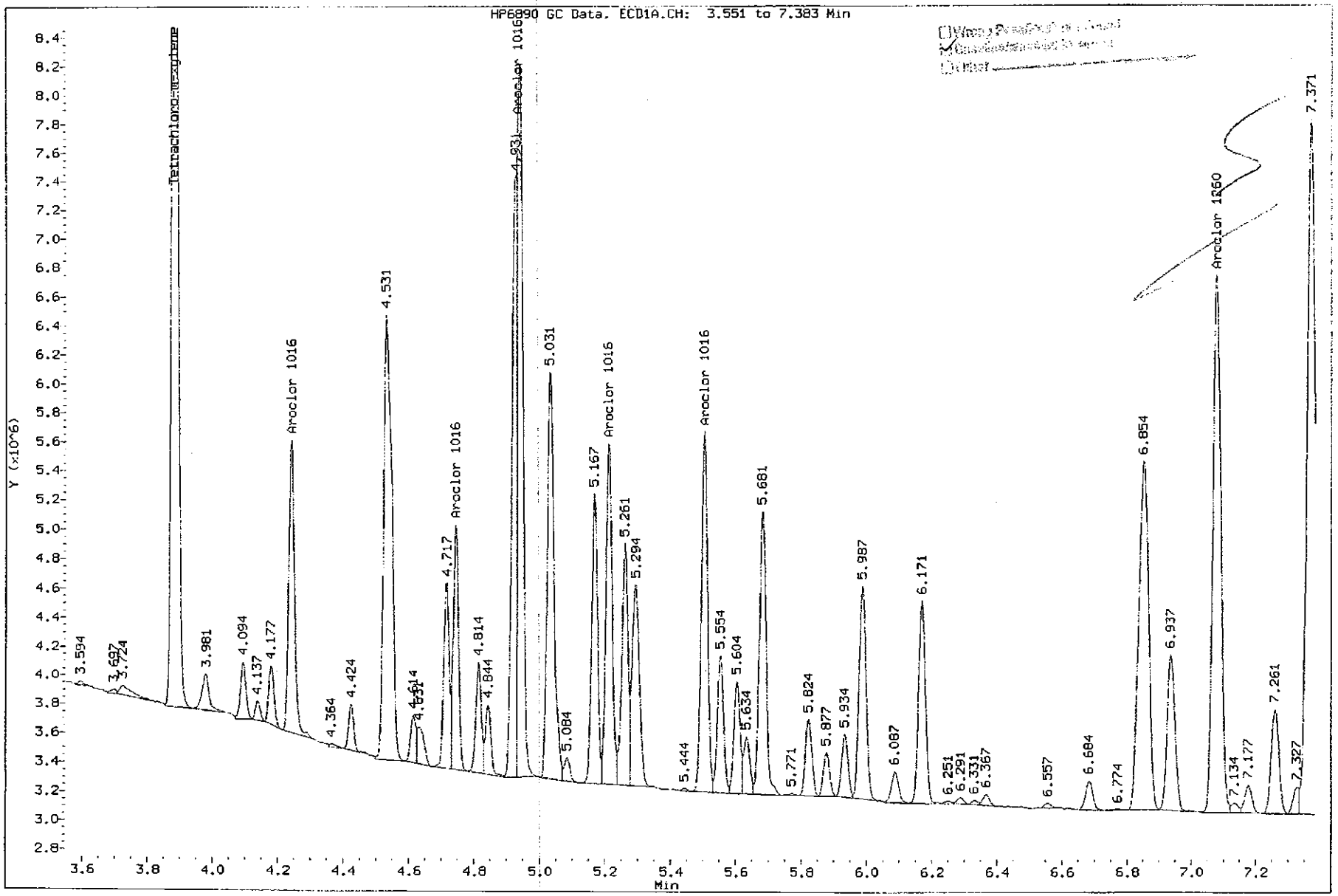
AUG 2 6 2015

mr



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F015.D
Injection Date: 25-AUG-2015 16:33
Instrument: GC27.1
Client Sample ID:

After
Initials MM



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F016.D
Lab ID: KWG1507602-2
RunType: DLCS
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 16:57
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: mm 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:52:52
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F016.D
Lab ID: KWG1507602-2
RunType: DLCS
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 16:57
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TCV ok
	Aroclor 1260	22.7	NA	20	TCV Dual
Continuing Calibration Recovery (Closing)	Decachlorobiphenyl	47.4	NA	20	RO

Primary Review: [illegible] 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:52:56
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F016.D			**Vial:**	15
Acqu Date:	08/25/2015 16:57	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	DLCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	PAPERBOARD
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507602	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458478	**Prep Date:**	08/14/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F017.D	**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2		Rpt
Decachlorobiphenyl	12.27 +0.00	13.63 +0.00	13399476	6535835	84.74	79.37 CCV		85 OK
			%Recovery =		85 OK	79 OK	Limits = 43-148	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	759.24	604.42	0.152	0.121	0.121
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	2911941m	1150866	811.36	626.11	0.162	0.125	
Aroclor 1016 {2}	4.75 +0.00	4.96 +0.00	2339580m	1495992	780.88	614.48	0.156	0.123	
Aroclor 1016 {3}	4.94 0.00	5.59 +0.00	7532066m	1789076	761.50	596.51	0.152	0.119	
Aroclor 1016 {4}	5.21 +0.00	5.93 +0.00	3603813m	1276676	726.39	581.63	0.145	0.116	
Aroclor 1016 {5}	5.51 +0.00	6.12 0.00	3706669m	1300926	716.07	603.40	0.143	0.121	
Aroclor 1221			0	0	0.0000	0.0000	0.019U	0.019U	0.019U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	0.019U	0.019U	
Aroclor 1232			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul: fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F016.D			**Vial:**	15
Acqu Date:	08/25/2015 16:57	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	DLCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclors, Total			14673308	5609796	1,652	1,462	0.330J	0.292J	**0.330J**
Aroclor 1260			0	0	892.61	858.05	0.179	0.172	**0.172**
Aroclor 1260 {1}	7.08 0.00	7.84 +0.00	7240207	1589223	735.00	720.45	0.147	0.144	
Aroclor 1260 {2}	8.10 0.00	9.27 +0.00	7576134	3414776	933.73	903.42	0.187	0.181	
Aroclor 1260 {3}	8.65 0.00	9.72 +0.00	7586002	3082120	921.64	854.05	0.184	0.171	
Aroclor 1260 {4}	9.11 0.00	10.40 +0.00	17539378	8004863	933.01	927.08	0.187	0.185	
Aroclor 1260 {5}	9.90 +0.00	11.04 +0.00	13330750	4944466	939.67	885.26	0.188	0.177	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F016.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F016.D
Inj Date : 25-AUG-2015 16:57
Sample Info: KWG1507602-2 DLCS
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	15268920	5440415	86.3	69.2		100.00
Aroclor 1016	4.239	4.622	2911941	1150866	811	626	80.00- 120.00	100.00(MH)
	4.745	4.955	2339580	1495992	781	614	68.02- 102.04	80.34(MH)
	4.939	5.592	7532066	1789076	762	597	217.78- 326.67	258.66(MH)
	5.212	5.925	3603813	1276676	726	582	103.05- 154.58	123.76(MH)
	5.505	6.119	3706669	1300926	716	603	104.78- 157.16	127.29(MH)
		Average of Peak Amounts =			759	604		
Aroclor 1260	7.079	7.835	7240207	1589223	735	720	80.00- 120.00	100.00(H)
	8.095	9.272	7576134	3414776	934	903	70.16- 105.25	104.64(H)
	8.649	9.722	7586002	3082120	922	854	71.52- 107.28	104.78(H)
	9.112	10.399	17539378	8004863	933	927	162.72- 244.08	242.25(H)
	9.899	11.035	13330750	4944466	940	885	127.86- 191.79	184.12(H)
		Average of Peak Amounts =			893	858		
Decachlorobiphenyl	12.265	13.629	13399476	6535835	84.7	79.4		100.00
Aroclors, Total	0.000	0.000	14673308	5609796	1650	1460		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

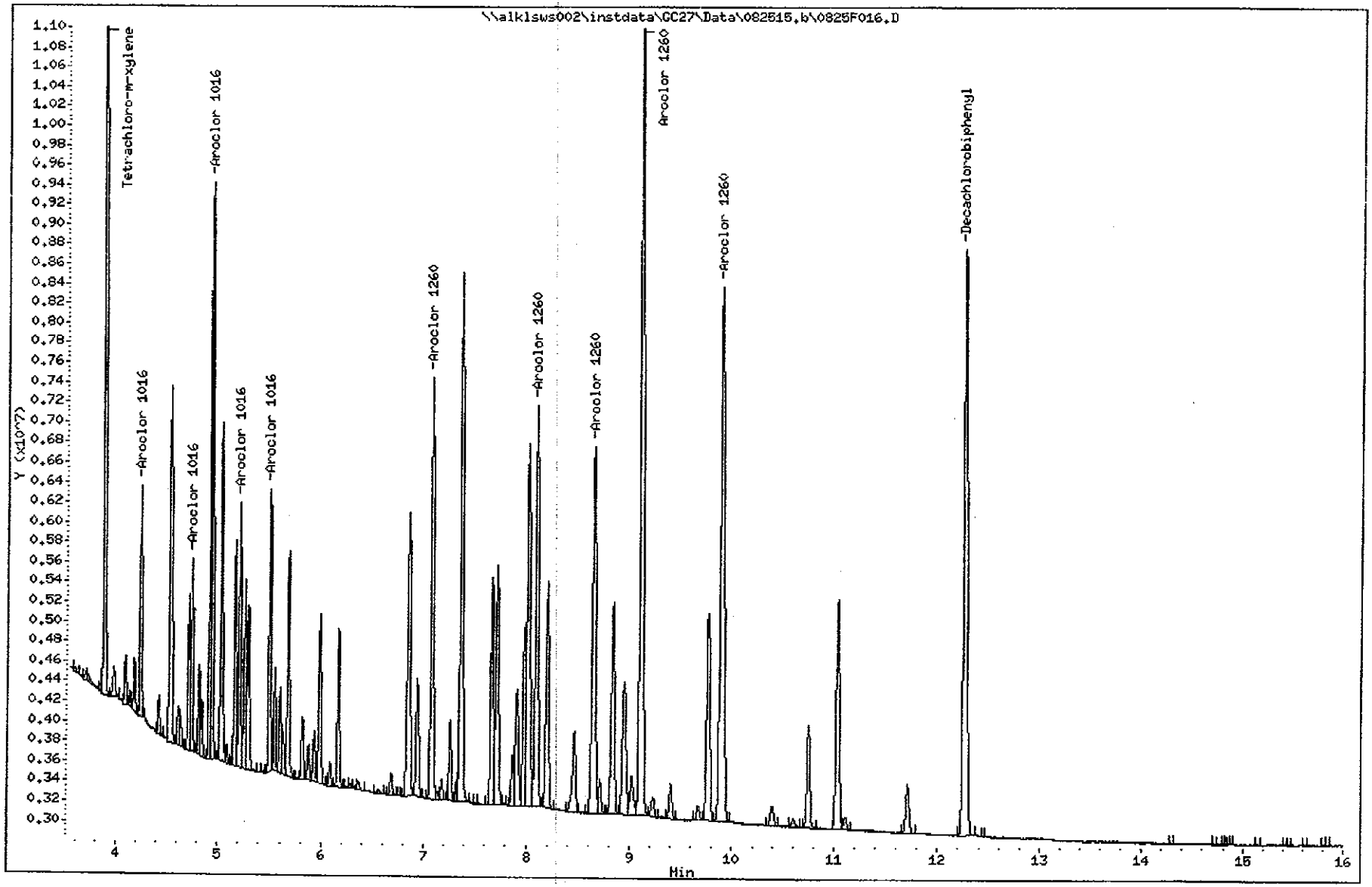
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F016.D
Date : 25-AUG-2015 16:57
Client ID:
Sample Info: KWG1507602-2 DLCS

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32



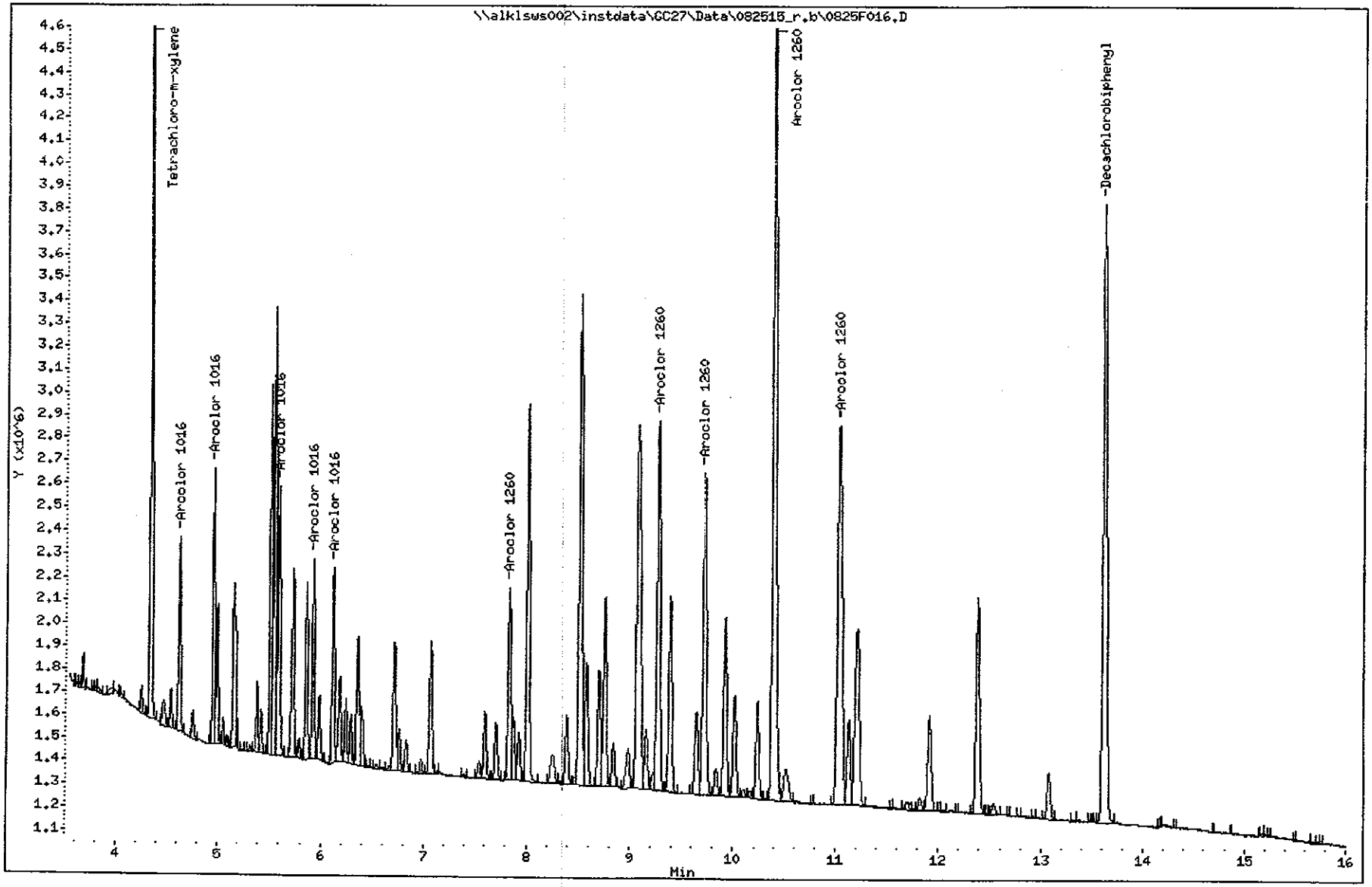
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F016.D
Date : 25-AUG-2015 16:57
Client ID:
Sample Info: KWG1507602-2 DLCS

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32

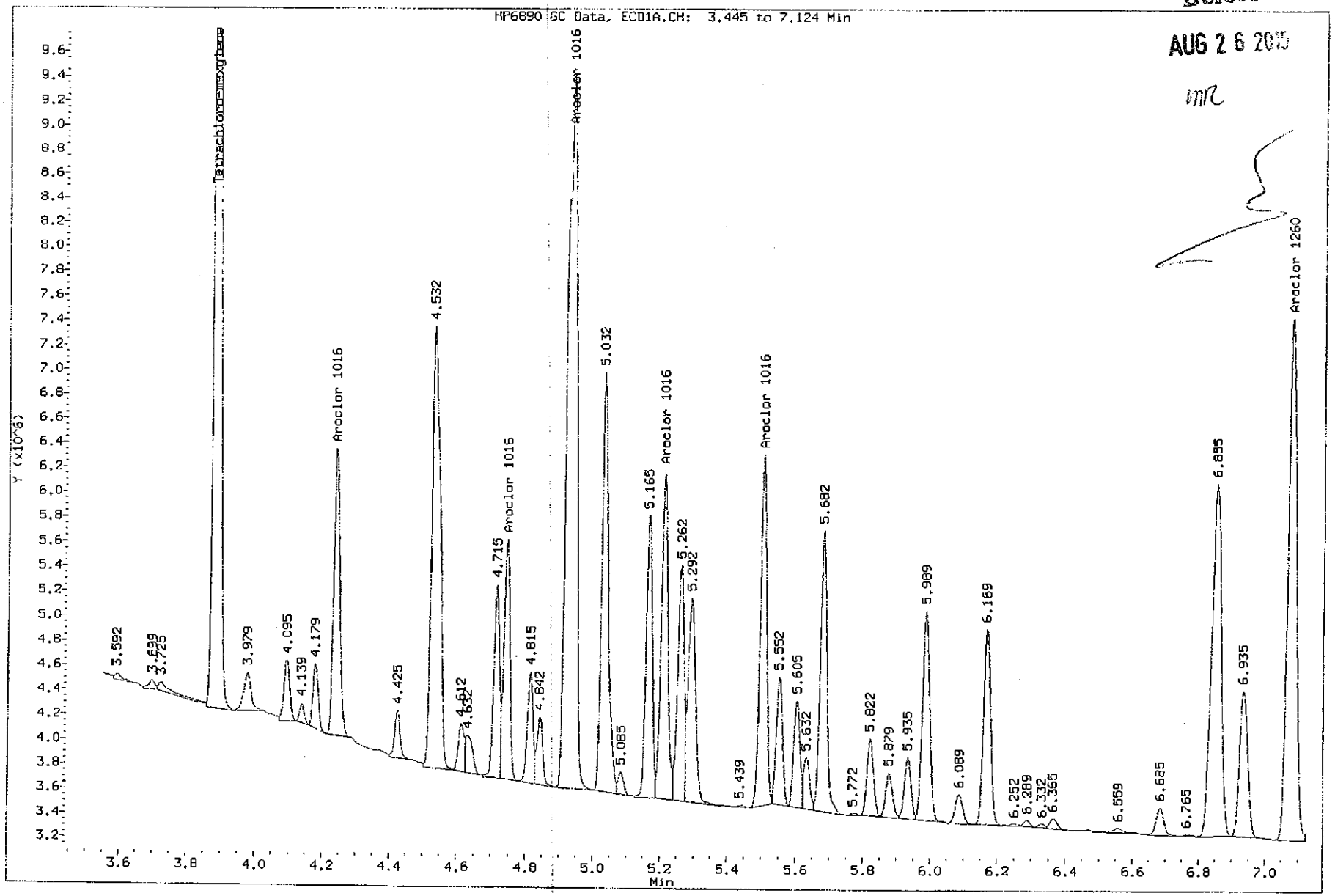


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F016.D
Injection Date: 25-AUG-2015 16:57
Instrument: GC27.i
Client Sample ID:

Before

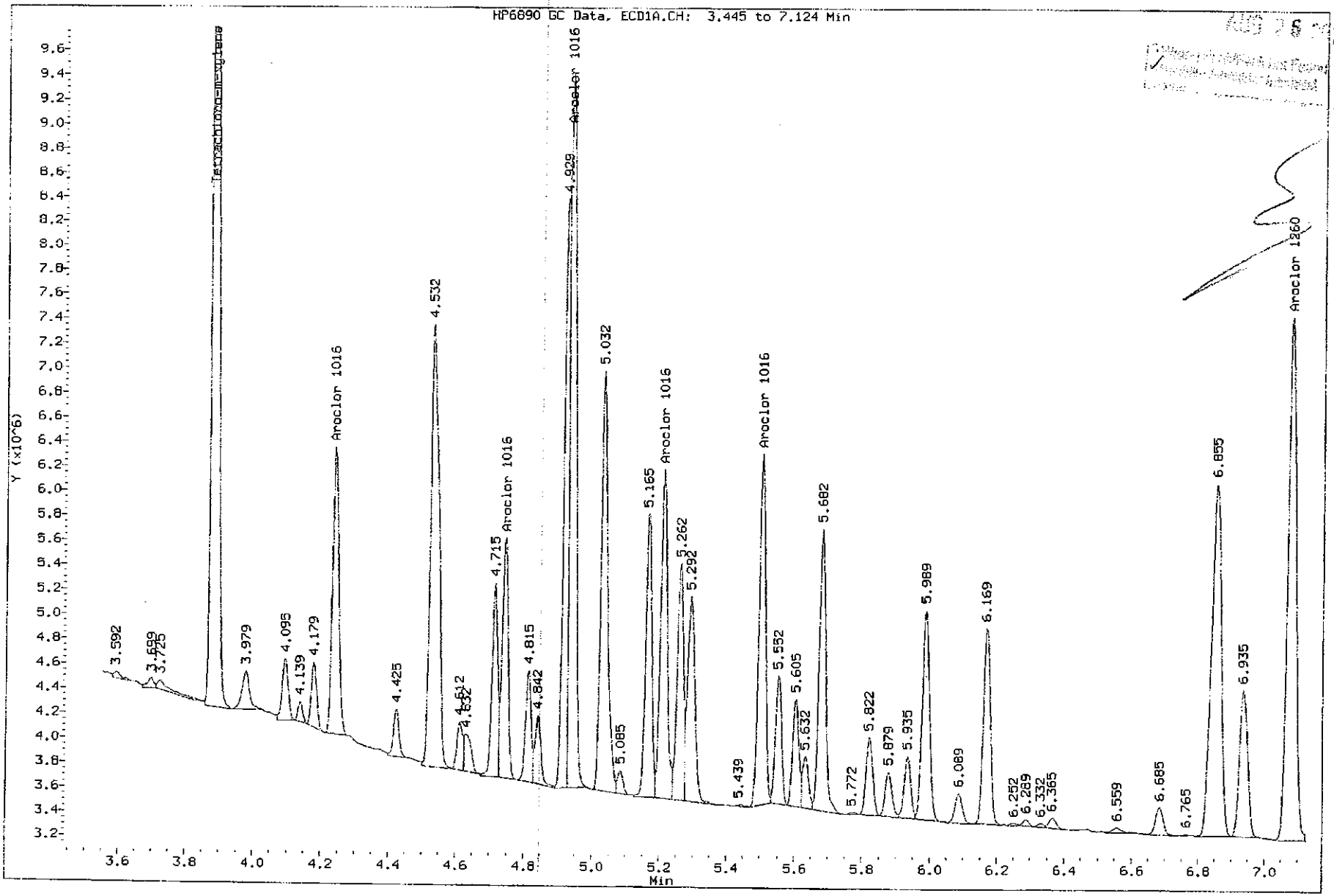
AUG 2 6 2015

mr



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F016.D
Injection Date: 25-AUG-2015 16:57
Instrument: GC27.i
Client Sample ID:

After
Initials



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F017.D
Lab ID: KWG1507602-3
RunType: MB
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 17:20
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV OL

Primary Review: MBC 08/26/15

Secondary Review:

Printed: 08/26/2015 09:53:01
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F017.D
Lab ID: KWG1507602-3
RunType: MB
Matrix: PAPERBOARD

Date Acquired: 08/25/2015 17:20
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual
Continuing Calibration Recovery (Closing)	Decachlorobiphenyl	47.4	NA	20	RO

Primary Review: mm 08/26/15

Secondary Review: _____

Printed: 08/26/2015 09:53:06
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F017.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F017.D			**Vial:**	16
Acqu Date:	08/25/2015 17:20	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	PAPERBOARD
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507602	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458479	**Prep Date:**	08/14/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2		Rpt
Decachlorobiphenyl	12.27 +0.00	13.63	14611947	7315346	92.40	88.83CCV		92 OK
				%Recovery =	92 OK	89 OK	Limits = 43-148	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	0.00940U	0.00940U	0.00940U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1221			0	0	0.0000	0.0000	0.019U	0.019U	0.019U
Aroclor 1221 {1}			0	0	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	0.019U	0.019U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	0.019U	0.019U	
Aroclor 1232			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1232 {1}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {2}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {3}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {4}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1232 {5}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1242 {1}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {2}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {3}			0d	0	0.0000	0.0000	0.0094U	0.0094U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F017.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F017.D			**Vial:**	16
Acqu Date:	08/25/2015 17:20	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507602-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1242 {5}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1248 {1}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {2}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {3}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {4}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1248 {5}			0d	0	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclors, Total			0	0	0.0000	0.0000	0.0094U	0.0094U	0.0094U
Aroclor 1260			0	0	0.0000	0.0000	0.00940U	0.00940U	0.00940U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	0.0094U	0.0094U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N. Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F017.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F017.D
Inj Date : 25-AUG-2015 17:20
Sample Info: KWG1507602-3 MB
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

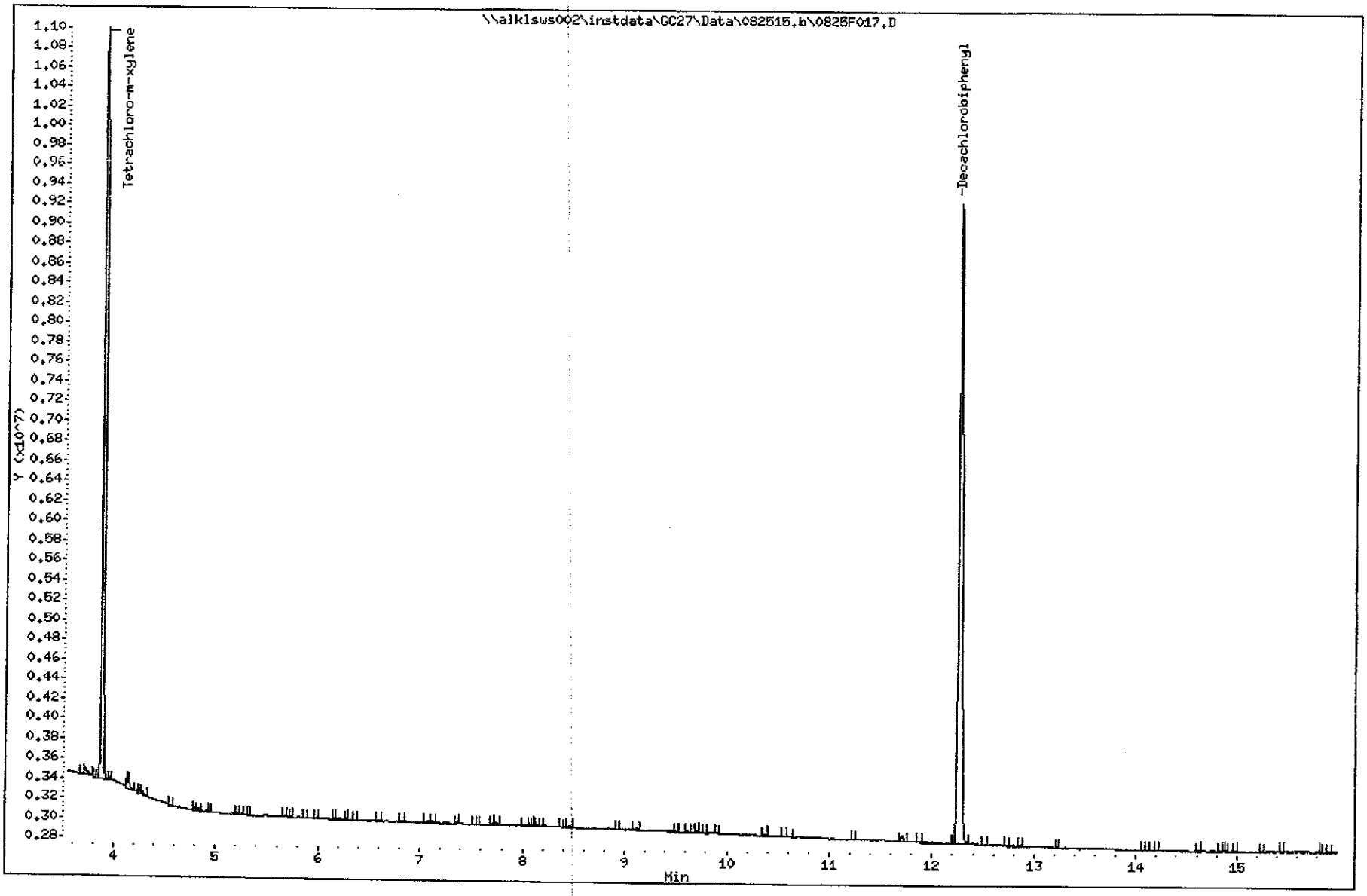
Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	14111469	5533553	79.7	70.4		100.00
Decachlorobiphenyl	12.265	13.628	14611947	7315346	92.4	88.8		100.00

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F017.D
Date : 25-AUG-2015 17:20
Client ID:
Sample Info: KWG1507602-3 MB

Instrument: GC27.i

Operator: MR
Column phase: DB-35MS
Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\082615.S
Comment: PCB Aroclors by EPA 8082A
Operator: MR
Data Path: C:\GC27\DATA\082615\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0826F001	PCB_REG	PRIMER
2	IB	100	0826F002	PCB_REG	PRIMER
3	CCV	1	0826F003	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
4	IB	99	0826F004	PCB_REG	IB
5	LCS	6	0826F005	PCB_REG	KWG1507557-2 LCS
6	MB	7	0826F006	PCB_REG	KWG1507557-3 MB
7	MB	8	0826F007	PCB_REG	KWG1507557-4 MB
8	SMPL	9	0826F008	PCB_REG	K1508265-001
9	MS	10	0826F009	PCB_REG	K1508265-001 MS
10	SMPL	11	0826F010	PCB_REG	K1508265-002
11	LCS	12	0826F011	PCB_REG	KWG1507782-5 LCS
12	MB	13	0826F012	PCB_REG	KWG1507782-6 MB
13	SOLN	14	0826F013	PCB_REG	KWG1507782-2 SRM
14	SMPL	15	0826F014	PCB_REG	K1508937-001
15	SMPL	16	0826F015	PCB_REG	K1508937-001 DUP
16	SMPL	17	0826F016	PCB_REG	K01508937-001 MS
17	SMPL	18	0826F017	PCB_REG	K1508937-001 DMS
18	SMPL	19	0826F018	PCB_REG	1508937-002
19	CCV	1	0826F019	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
20	IB	99	0826F020	PCB_REG	IB
21	SMPL	20	0826F021	PCB_REG	K1508581-001 5X
22	SMPL	21	0826F022	PCB_REG	K1508582-001 5X
23	SMPL	22	0826F023	PCB_REG	K1508582-001 5X MS
24	SMPL	23	0826F024	PCB_REG	K1508582-001 5X DMS
25	CCV	1	0826F025	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
26	IB	99	0826F026	PCB_REG	IB
27	MDL	24	0826F027	PCB_REG	KWG1506152-1
28	MDL	25	0826F028	PCB_REG	KWG1506152-2
29	MDL	26	0826F029	PCB_REG	KWG1506152-3
30	MDL	27	0826F030	PCB_REG	KWG1506152-4
31	MDL	28	0826F031	PCB_REG	KWG1506152-5
32	MDL	29	0826F032	PCB_REG	KWG1506152-6
33	MB	30	0826F033	PCB_REG	KWG1506152-7
34	MDL	31	0826F034	PCB_REG	KWG1506152-8
35	MDL	32	0826F035	PCB_REG	KWG1506152-9
36	MDL	33	0826F036	PCB_REG	KWG1506152-10
37	MB	34	0826F037	PCB_REG	KWG1506152-11 MB
38	CCV	2	0826F038	PCB_REG	1660 @ 500ppb PCB6-74E ok,10ok
39	IB	98	0826F039	PCB_REG	IB
40					

Run# 459542
cal# 13624
KWG1508158

processed seperately

also 10X

processed seperately

Last Modified: Wed Aug 26 12:47:22 2015

Page: 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F003.D
Lab ID: KWG1508158-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 13:36
Date Quantitated: 08/27/2015 15:18
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 08/27/15

Secondary Review:

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F003.D	**Date Acquired:**	08/26/2015 13:36
Lab ID:	KWG1508158-1	**Date Quantitated:**	08/27/2015 15:19
RunType:	CCV	**Batch ID:**	KWG1508158
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: AMR 08/27/15

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F003.D			**Vial:**	1
Acqu Date:	08/26/2015 13:36	**Quant Date:**	08/27/2015 15:18	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9694970	3736907	54.77	47.51			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.26	13.62	8228734	4117868	52.04	50.00			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	474.66	424.00			
Aroclor 1016 {1}	4.24	4.62	1750839m	800763	487.84	435.64			
Aroclor 1016 {2}	4.74	4.95	1477397m	1056306	493.11	433.88			
Aroclor 1016 {3}	4.94	5.59	4698521m	1250150	475.03	416.82			
Aroclor 1016 {4}	5.21	5.92	2299266m	918475	463.44	418.44			
Aroclor 1016 {5}	5.50	6.12	2349565m	895251	453.90	415.24			
Aroclor 1260			0	0	490.28	486.15			
Aroclor 1260 {1}	7.08	7.83	4524965	991955	459.36	449.68			
Aroclor 1260 {2}	8.09	9.27	3998773	1850954	492.83	489.69			
Aroclor 1260 {3}	8.65	9.72	4071047	1771603	494.60	490.91			
Aroclor 1260 {4}	9.11	10.40	9305788	4249861	495.02	492.20			
Aroclor 1260 {5}	9.89	11.03	7228975	2838791	509.56	508.26			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F003.D
Report Date: 27-Aug-2015 15:18

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F003.D
Inj Date : 26-AUG-2015 13:36
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 27-AUG-2015 08:08
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.336	9694970	3736907	54.8	47.5		100.00
Aroclor 1016	4.239	4.619	1750839	800763	488	436	80.00- 120.00	100.00(M)
	4.742	4.952	1477397	1056306	493	434	67.58- 101.37	84.38(M)
	4.935	5.589	4698521	1250150	475	417	323.28- 484.93	268.36(M)
	5.209	5.919	2299266	918475	463	418	104.43- 156.65	131.32(M)
	5.499	6.115	2349565	895251	454	415	106.03- 159.05	134.20(M)
		Average of Peak Amounts =			475	424		
Aroclor 1260	7.075	7.832	4524965	991955	459	450	80.00- 120.00	100.00
	8.092	9.266	3998773	1850954	493	490	70.14- 105.21	88.37
	8.645	9.716	4071047	1771603	495	491	70.66- 105.99	89.97
	9.109	10.396	9305788	4249861	495	492	162.95- 244.43	205.65
	9.892	11.029	7228975	2838791	510	508	126.35- 189.53	159.76
		Average of Peak Amounts =			490	486		
Decachlorobiphenyl	12.262	13.619	8228734	4117868	52.0	50.0		100.00

QC Flag Legend

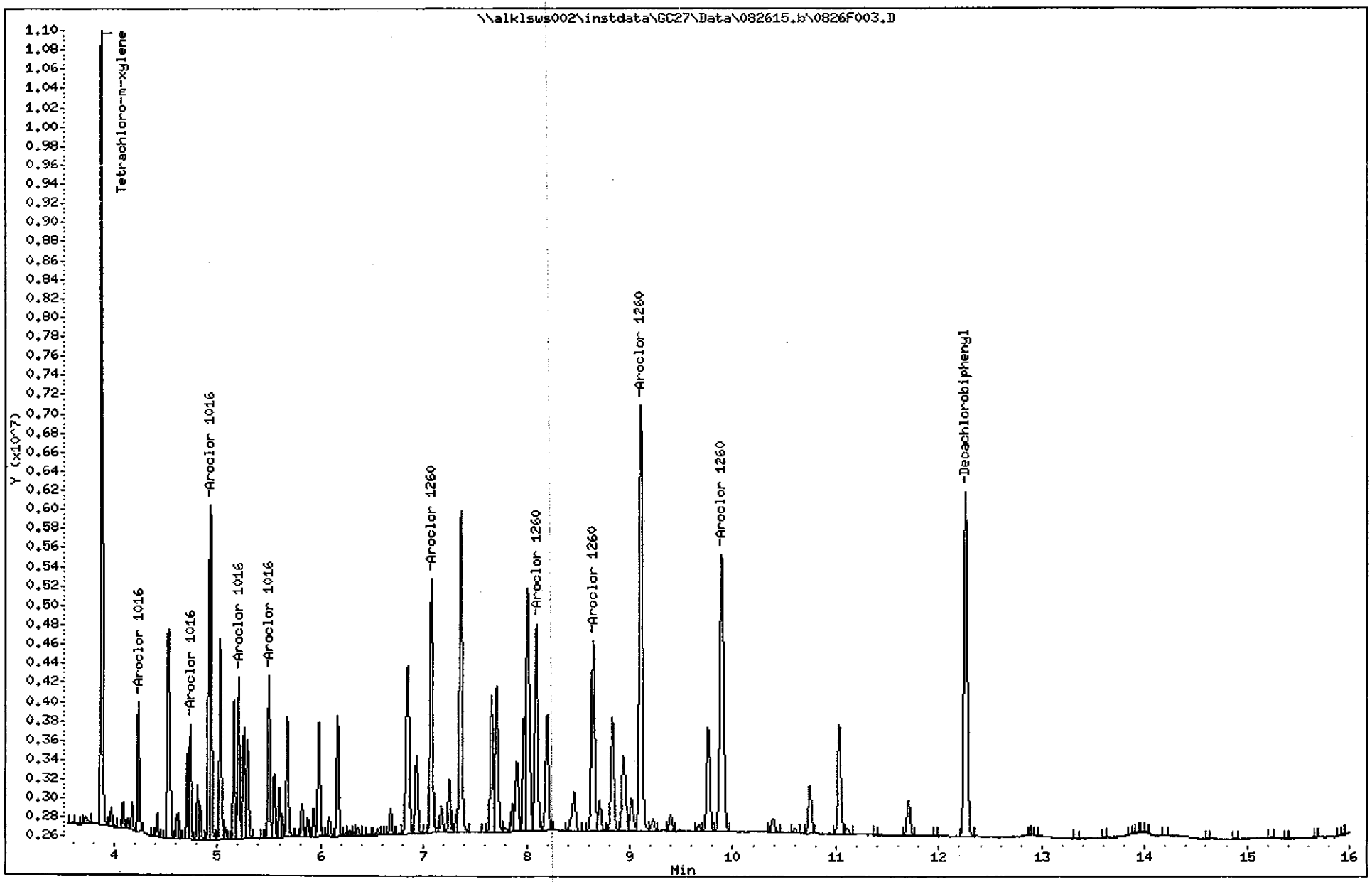
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F003.D
Date : 26-AUG-2015 13:36
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

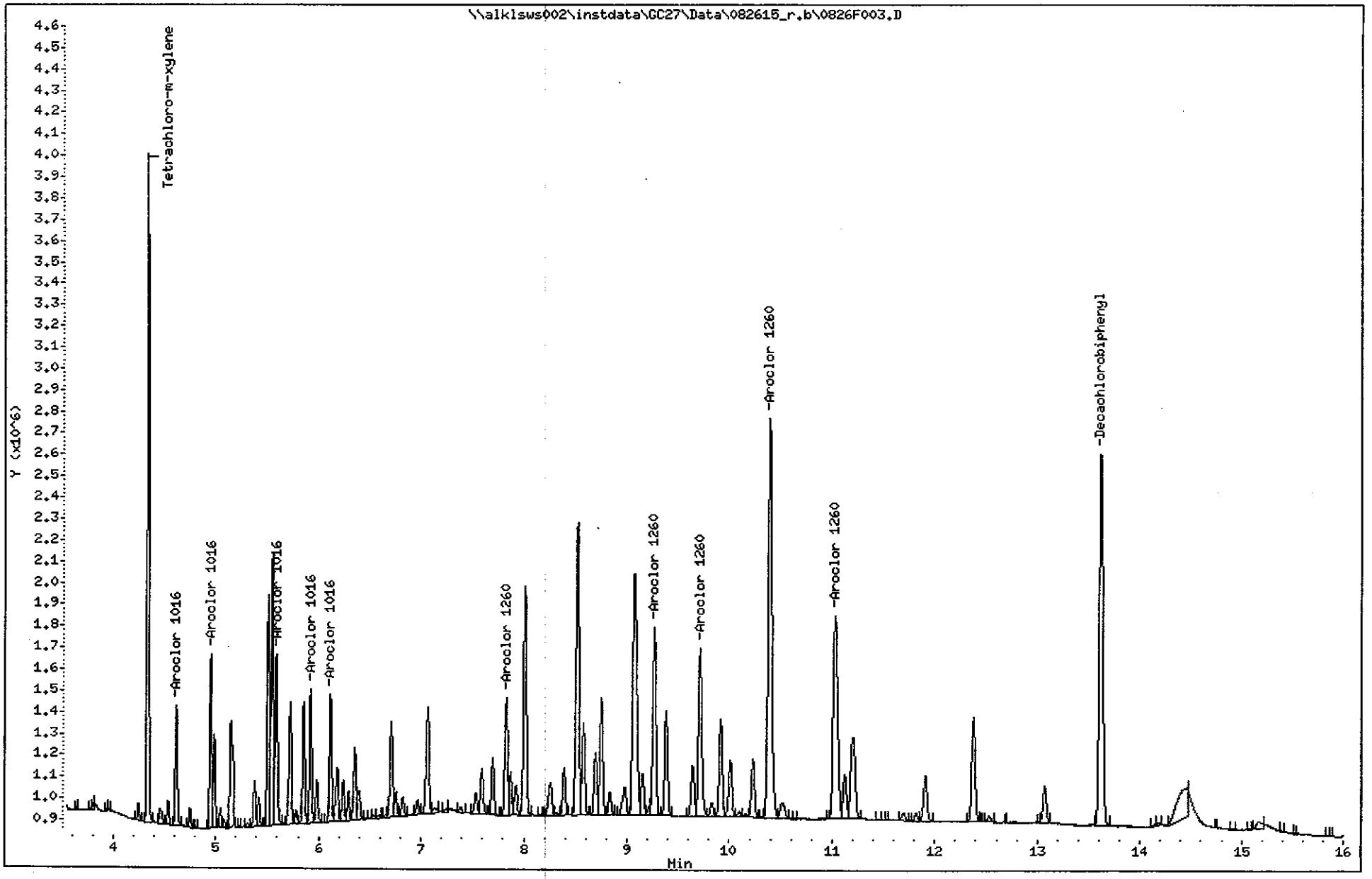


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F003.D
Date : 26-AUG-2015 13:36
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

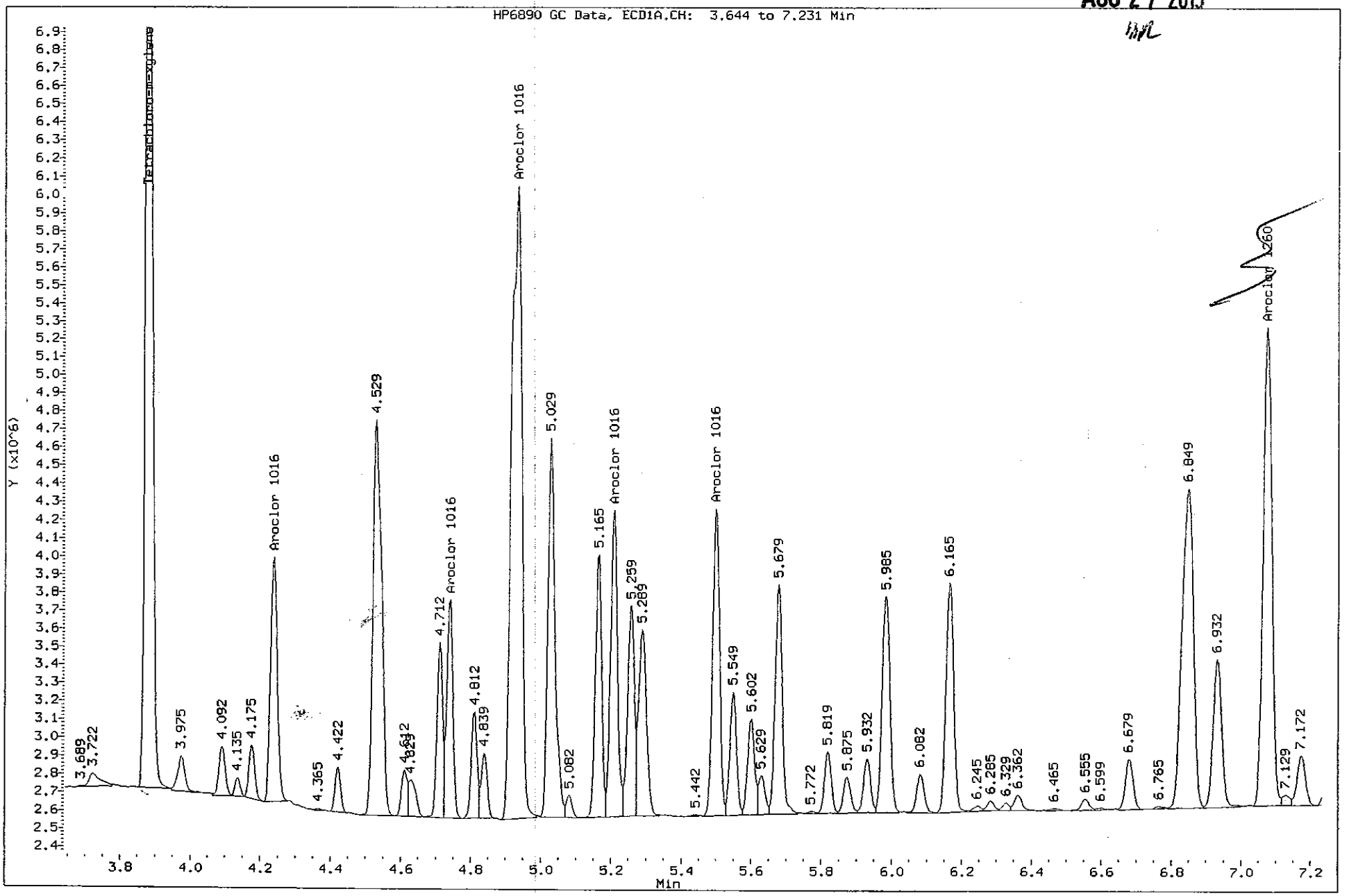
Operator: MR
Column diameter: 0.32



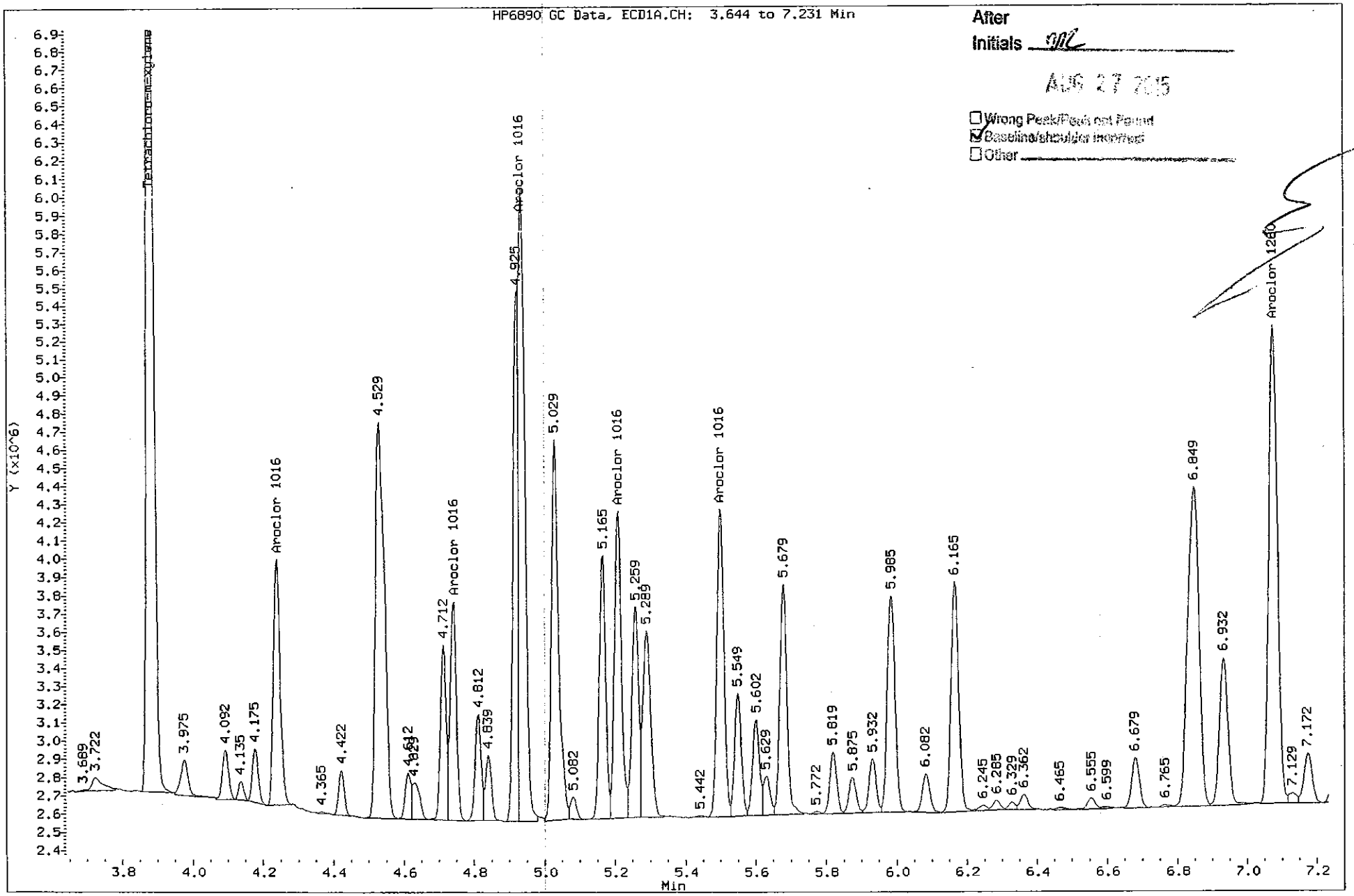
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F003.D
Injection Date: 26-AUG-2015 13:36
Instrument: GC27.1
Client Sample ID:

Before

AUG 2 7 2015



Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F003.D
Injection Date: 26-AUG-2015 13:36
Instrument: GC27.i
Client Sample ID:



After
Initials
AUG 27 2015
☐ Wrong Peak/Peak not Found
☑ Baseline/shoulder incorrect
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F004.D
Lab ID: KWG1508158-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 14:00
Date Quantitated: 08/27/2015 15:18
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:45:48
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F004.D
Lab ID: KWG1508158-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 14:00
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: ML 08/27/15

Secondary Review: [signature]

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F004.D			**Vial:**	99
Acqu Date:	08/26/2015 14:00	**Quant Date:**	08/27/2015 15:18	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	0.00	13.62	0	8105		0.0980			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F004.D			**Vial:**	99
Acqu Date:	08/26/2015 14:00	**Quant Date:**	08/27/2015 15:18	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0d	0.0000	0.0000			
Aroclor 1260 {2}			0d	0d	0.0000	0.0000			
Aroclor 1260 {3}			0d	0d	0.0000	0.0000			
Aroclor 1260 {4}			0d	0d	0.0000	0.0000			
Aroclor 1260 {5}			0d	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0d	0.0000	0.0000			
Aroclor 1268 {2}			0	0d	0.0000	0.0000			
Aroclor 1268 {3}			0	0d	0.0000	0.0000			
Aroclor 1268 {4}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F004.D
Report Date: 27-Aug-2015 15:18

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F004.D
Inj Date : 26-AUG-2015 14:00
Sample Info: IB
Misc Info :
Cal Date : 27-AUG-2015 08:08
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	0.000	13.619	0	8105	0.000	0.0984		

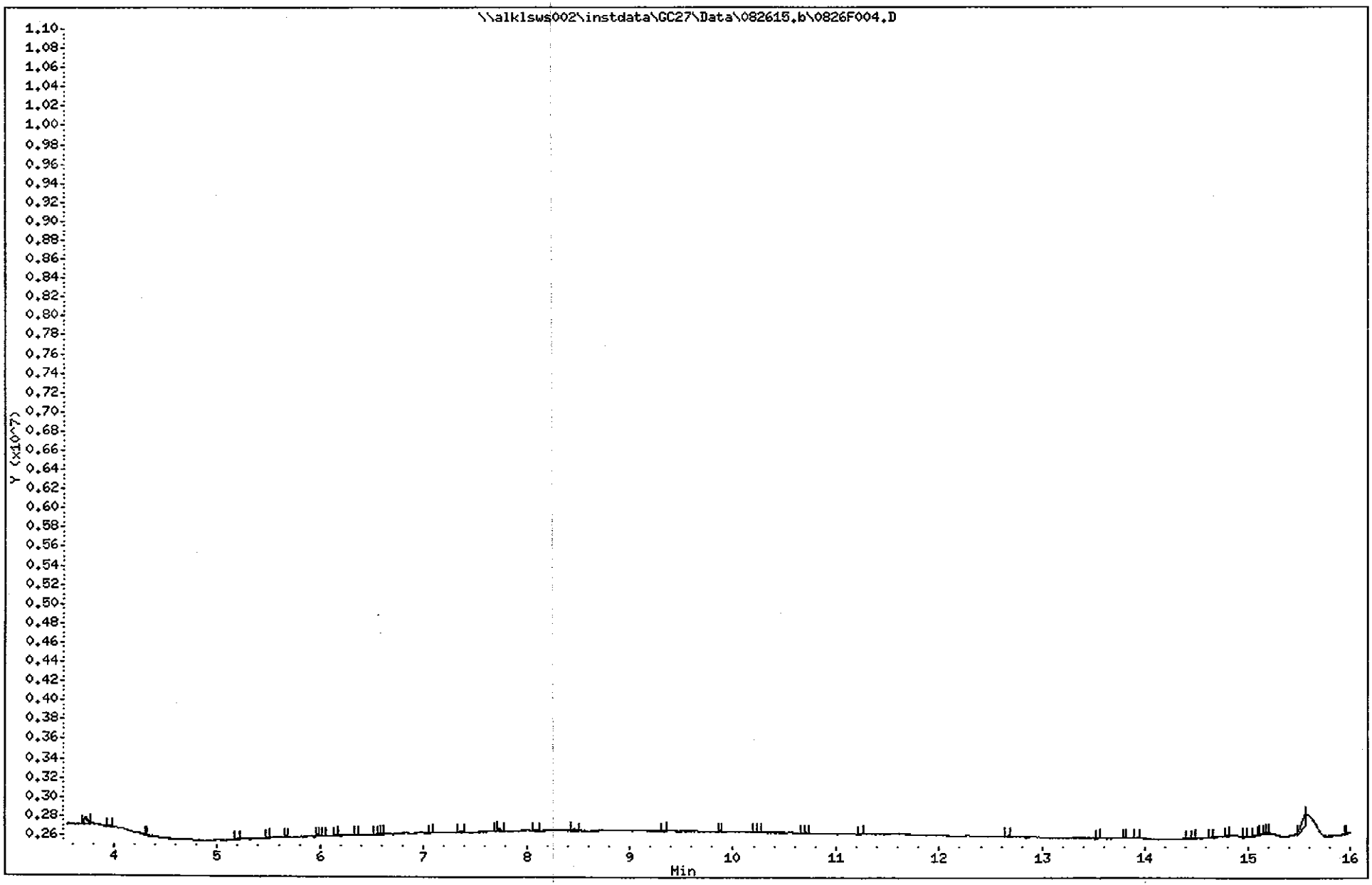
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F004.D
Date : 26-AUG-2015 14:00
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



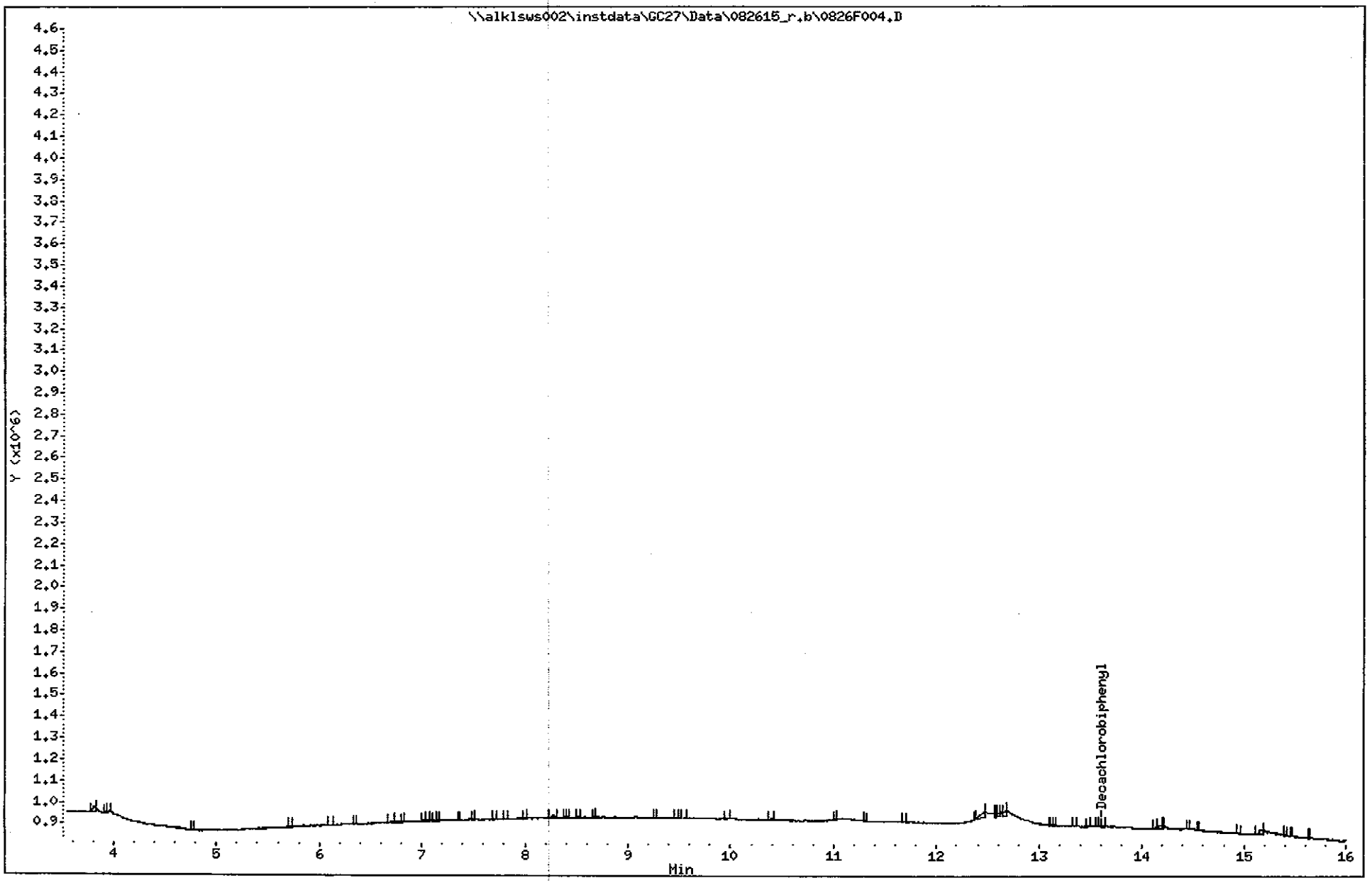
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F004.D
Date : 26-AUG-2015 14:00
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F019.D
Lab ID: KWG1508158-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 19:54
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:46:52
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F019.D
Lab ID: KWG1508158-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 19:54
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Disc

Primary Review: MC 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:46:56
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F019.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D			**Vial:**	1
Acqu Date:	08/26/2015 19:54	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9060250	3896754	51.18	49.54			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27	13.63	8028282	4094725	50.77	49.72			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	431.61	421.73			
Aroclor 1016 {1}	4.24	4.62	1608596	794097	448.20	432.02			
Aroclor 1016 {2}	4.75	4.96	1355862	1060578	452.54	435.63			
Aroclor 1016 {3}	4.94	5.59	4094654	1235330	413.98	411.88			
Aroclor 1016 {4}	5.21	5.92	2102197	910751	423.72	414.92			
Aroclor 1016 {5}	5.50	6.12	2172178	893056	419.63	414.22			
Aroclor 1260			0	0	467.84	475.33			
Aroclor 1260 {1}	7.08	7.84	4258119	987839	432.27	447.82			
Aroclor 1260 {2}	8.10	9.27	3799470	1799993	468.27	476.21			
Aroclor 1260 {3}	8.65	9.72	3853765	1714376	468.20	475.05			
Aroclor 1260 {4}	9.11	10.40	9004338	4203230	478.99	486.80			
Aroclor 1260 {5}	9.90	11.04	6972079	2741073	491.45	490.76			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D
Inj Date : 26-AUG-2015 19:54
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

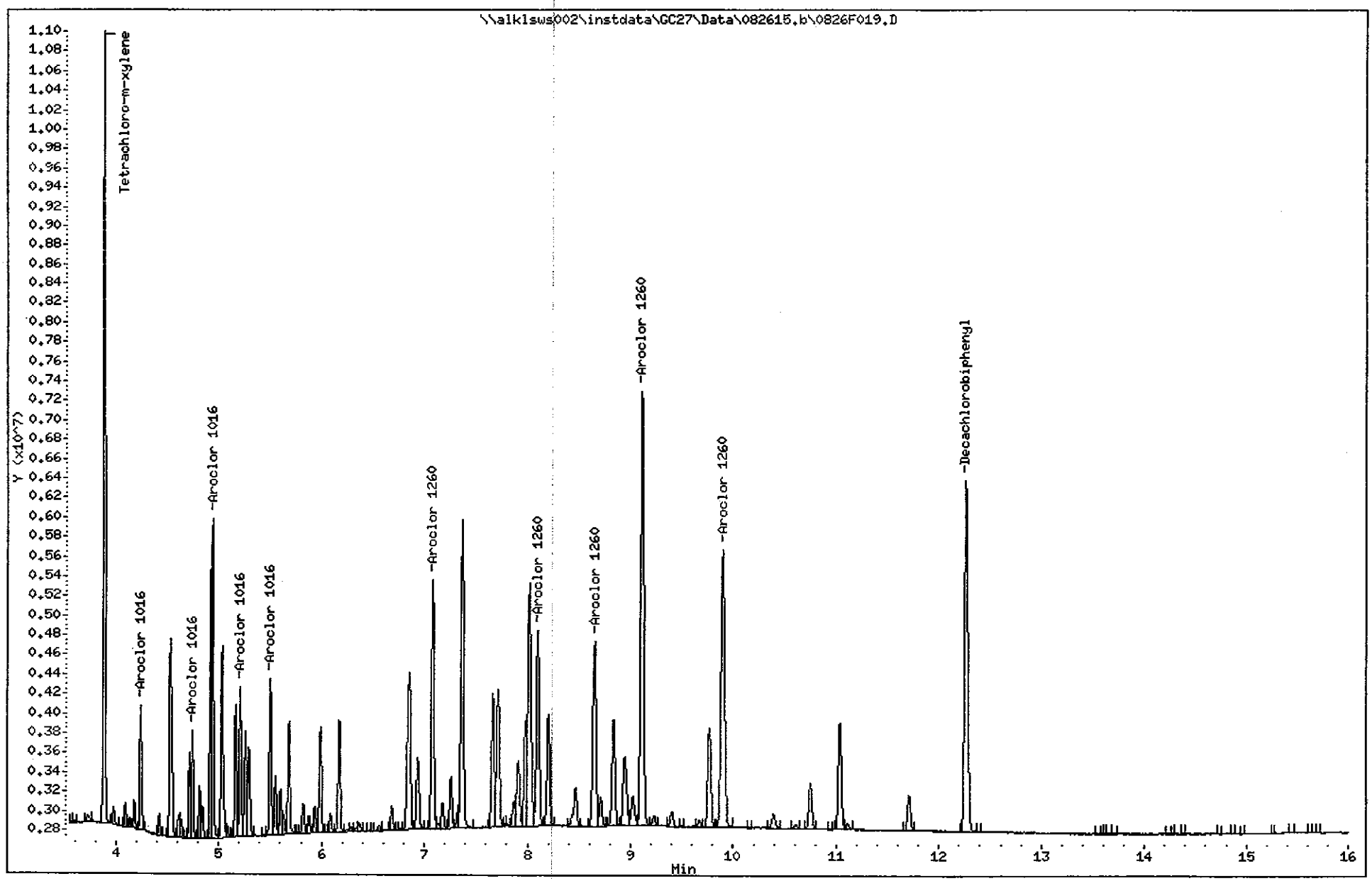
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	9060250	3896754	51.2	49.5		100.00
Aroclor 1016	4.239	4.622	1608596	794097	448	432	80.00- 120.00	100.00
	4.746	4.956	1355862	1060578	453	436	67.58- 101.37	84.29
	4.939	5.592	4094654	1235330	414	412	323.28- 484.93	254.55
	5.212	5.922	2102197	910751	424	415	104.43- 156.65	130.69
	5.502	6.119	2172178	893056	420	414	106.03- 159.05	135.04
		Average of Peak Amounts =			432	422		
Aroclor 1260	7.079	7.836	4258119	987839	432	448	80.00- 120.00	100.00
	8.099	9.272	3799470	1799993	468	476	70.14- 105.21	89.23
	8.649	9.722	3853765	1714376	468	475	70.66- 105.99	90.50
	9.112	10.399	9004338	4203230	479	487	162.95- 244.43	211.46
	9.899	11.036	6972079	2741073	491	491	126.35- 189.53	163.74
		Average of Peak Amounts =			468	475		
Decachlorobiphenyl	12.266	13.629	8028282	4094725	50.8	49.7		100.00

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Date : 26-AUG-2015 19:54
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

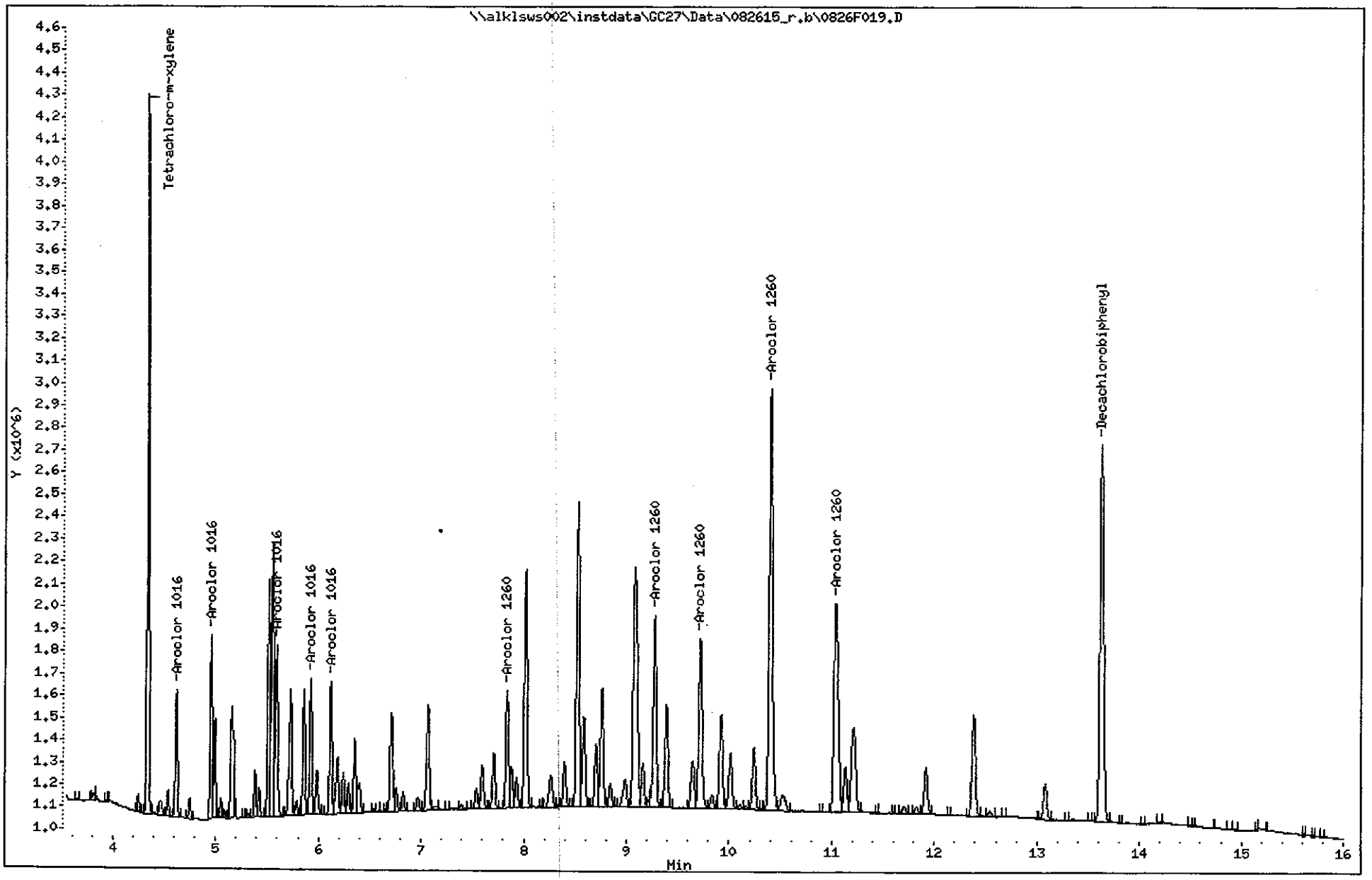


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D
Date : 26-AUG-2015 19:54
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F020.D
Lab ID: KWG1508158-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 20:17
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OC

Primary Review: MR 08/27/15

Secondary Review: [signature]

Printed: 08/27/2015 15:47:01
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F020.D
Lab ID: KWG1508158-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 20:17
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:06
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D			**Vial:**	99
Acqu Date:	08/26/2015 20:17	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.26		8505	0	0.0540	0.0000			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0d	0	0.0000	0.0000			
Aroclor 1232 {2}			0d	0	0.0000	0.0000			
Aroclor 1232 {3}			0d	0	0.0000	0.0000			
Aroclor 1232 {4}			0d	0	0.0000	0.0000			
Aroclor 1232 {5}			0d	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D			**Vial:**	99
Acqu Date:	08/26/2015 20:17	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D
Inj Date : 26-AUG-2015 20:17
Sample Info: IB
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.263	0.000	8505	0	0.0538	0.000		100.00

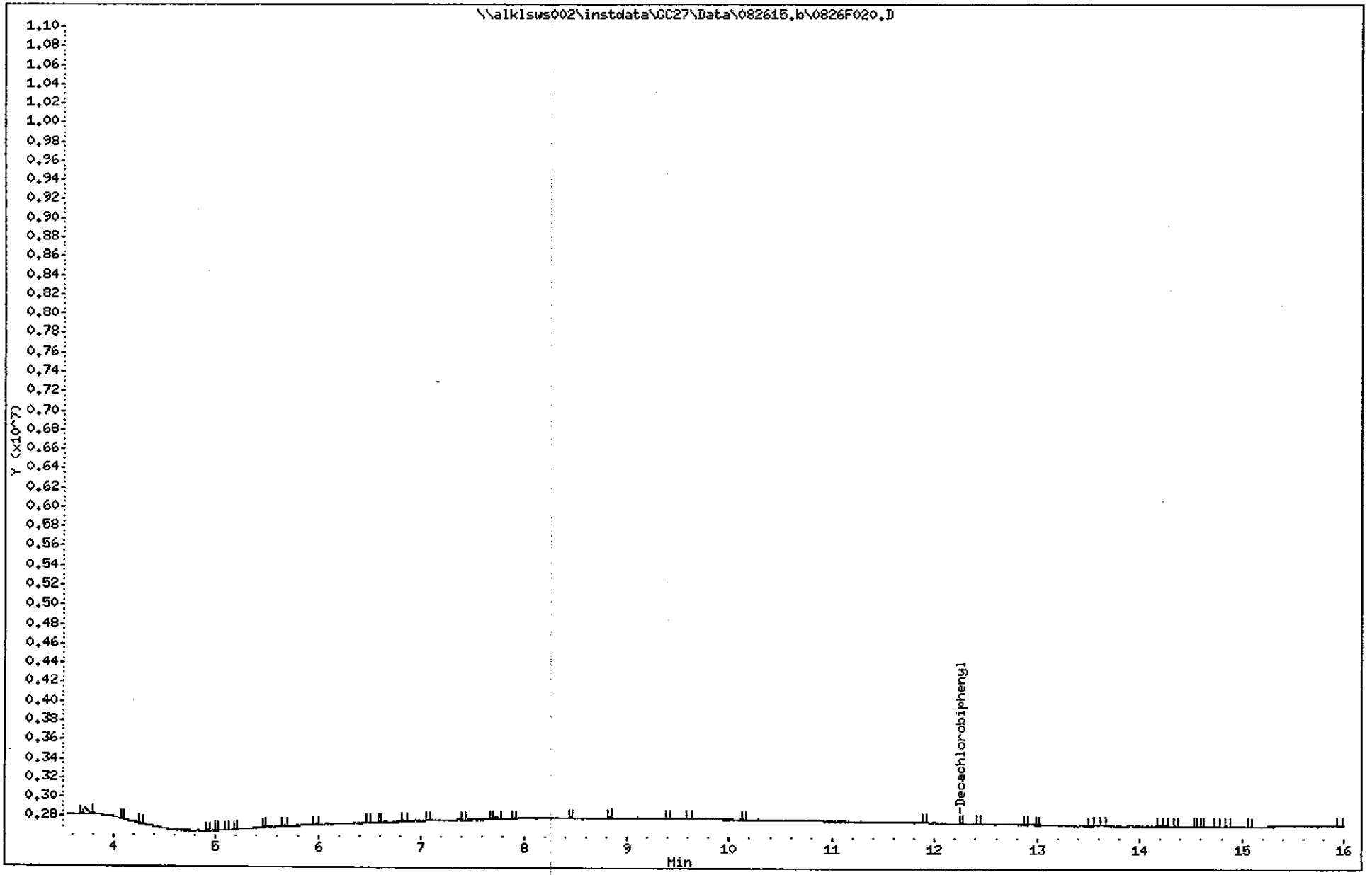
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Date : 26-AUG-2015 20:17
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

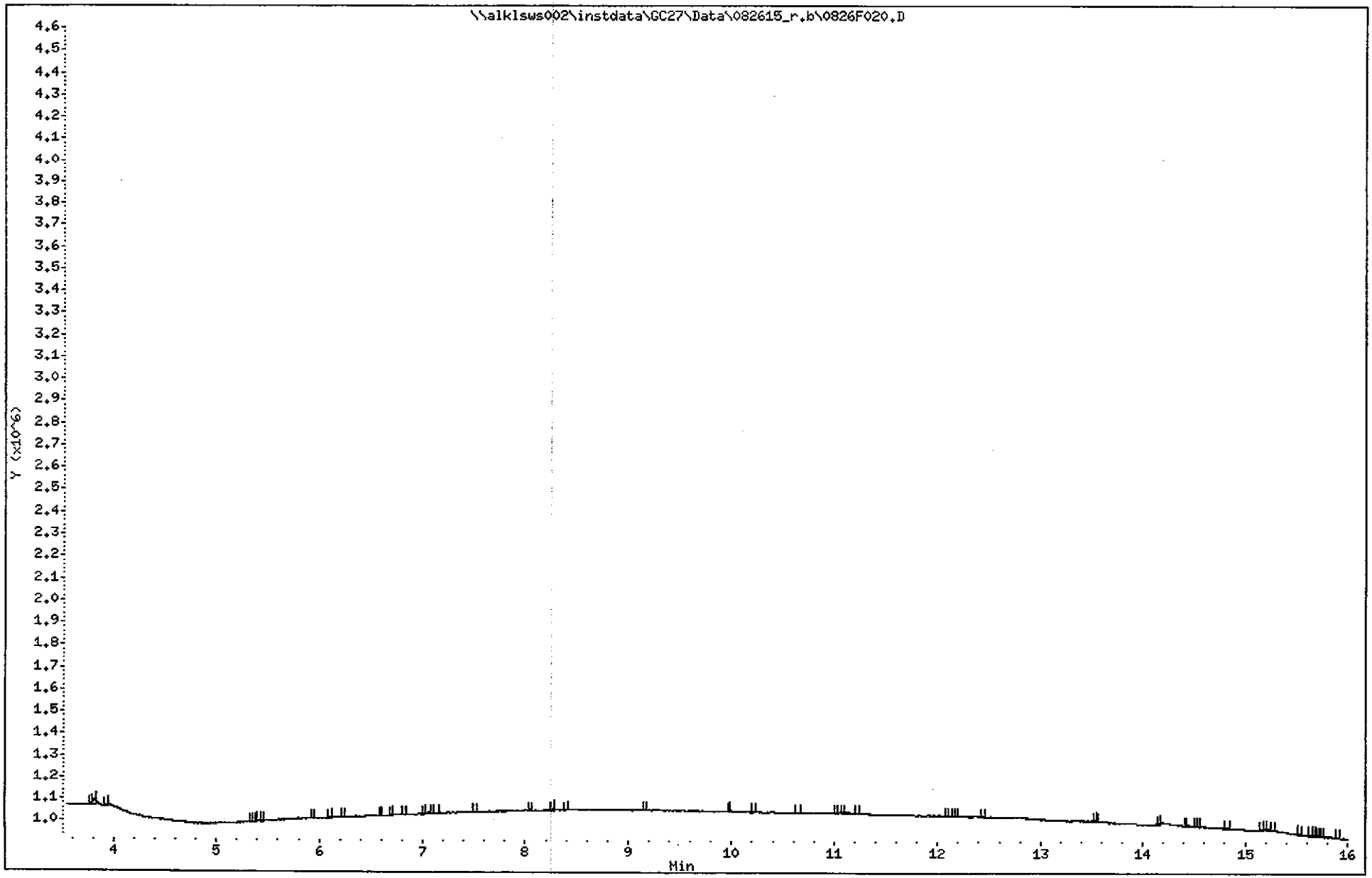


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D
Date : 26-AUG-2015 20:17
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F025.D
Lab ID: KWG1508158-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:15
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	FOV OK

Primary Review: MR 08/27/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F025.D
Lab ID: KWG1508158-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:15
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:50
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F025.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D			**Vial:**	1
Acqu Date:	08/26/2015 22:15	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9728550	3865510	54.96	49.15			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.26	13.63	8336946	4174891	52.72	50.70			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	466.00	430.45			
Aroclor 1016 {1}	4.24	4.62	1748534	817692	487.20	444.85			
Aroclor 1016 {2}	4.74	4.96	1419239	1085586	473.70	445.90			
Aroclor 1016 {3}	4.94	5.59	4613148	1234622	466.40	411.65			
Aroclor 1016 {4}	5.21	5.92	2251064	933543	453.73	425.30			
Aroclor 1016 {5}	5.50	6.12	2324227	915296	449.00	424.53			
Aroclor 1260			0	0	491.03	492.15			
Aroclor 1260 {1}	7.08	7.83	4584825	1022162	465.44	463.38			
Aroclor 1260 {2}	8.09	9.27	3994627	1897973	492.32	502.13			
Aroclor 1260 {3}	8.65	9.72	4064937	1771218	493.86	490.80			
Aroclor 1260 {4}	9.11	10.40	9314985	4291289	495.51	497.00			
Aroclor 1260 {5}	9.90	11.03	7207056	2834197	508.02	507.44			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D
Inj Date : 26-AUG-2015 22:15
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	9728550	3865510	55.0	49.1		100.00
Aroclor 1016	4.239	4.622	1748534	817692	487	445	80.00- 120.00	100.00
	4.742	4.956	1419239	1085586	474	446	67.58- 101.37	81.17
	4.935	5.589	4613148	1234622	466	412	323.28- 484.93	263.83
	5.209	5.922	2251064	933543	454	425	104.43- 156.65	128.74
	5.502	6.119	2324227	915296	449	425	106.03- 159.05	132.92
		Average of Peak Amounts =			466	431		
Aroclor 1260	7.075	7.832	4584825	1022162	465	463	80.00- 120.00	100.00
	8.092	9.269	3994627	1897973	492	502	70.14- 105.21	87.13
	8.645	9.719	4064937	1771218	494	491	70.66- 105.99	88.66
	9.109	10.396	9314985	4291289	496	497	162.95- 244.43	203.17
	9.895	11.029	7207056	2834197	508	507	126.35- 189.53	157.19
		Average of Peak Amounts =			491	492		
Decachlorobiphenyl	12.259	13.626	8336946	4174891	52.7	50.7		100.00

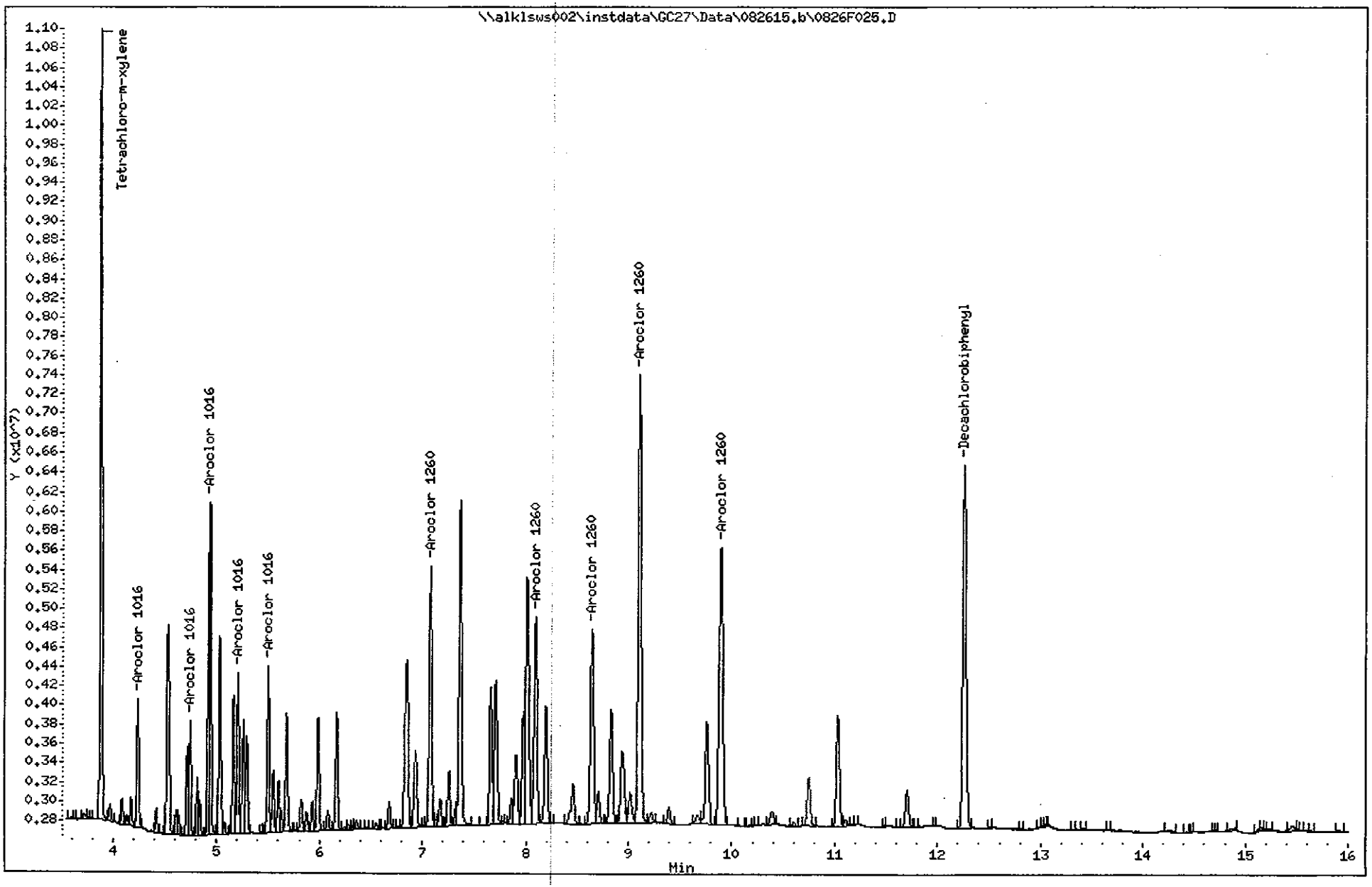
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Date : 26-AUG-2015 22:15
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

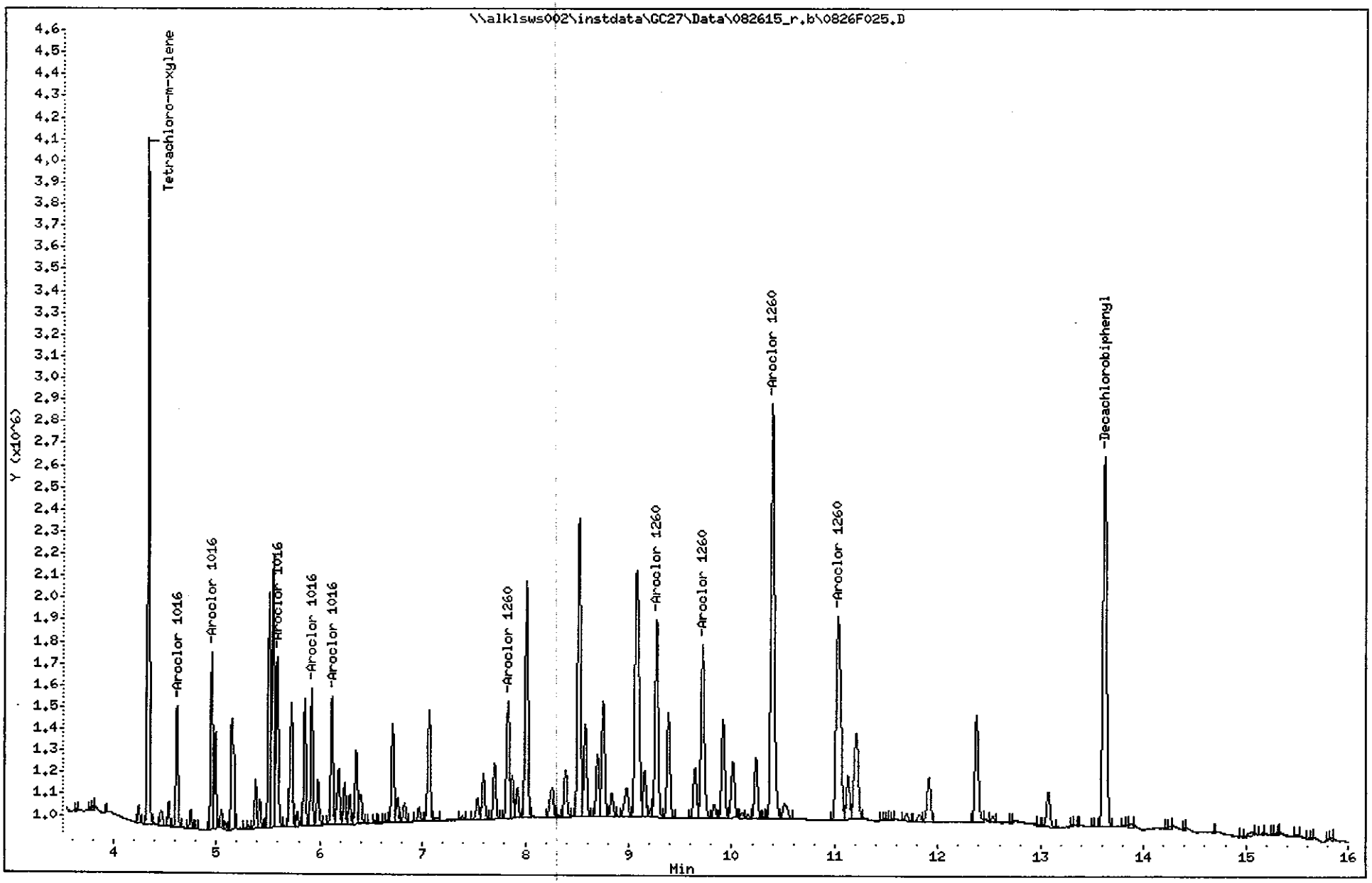


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D
Date : 26-AUG-2015 22:15
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F026.D
Lab ID: KWG1508158-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:38
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: ML 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:54
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F026.D
Lab ID: KWG1508158-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:38
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:58
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	**Report Group:**
Analysis Method:	8082A	**Prep Method:**	
Prep Ref:		**Prep Date:**	

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00	4.34	0	3084		0.0390			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27	13.62	17891	8469	0.1130	0.1030			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.81			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}		5.46	0d	5212	0.0000	2.02			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}		6.36	0d	6354	0.0000	2.65			
Aroclor 1248 {5}		7.04	0d	3285	0.0000	0.7700			
Aroclor 1254			0	0	0.0000	1.27			
Aroclor 1254 {1}		6.70	0d	2833	0.0000	0.7710			
Aroclor 1254 {2}		7.04	0d	3285	0.0000	0.5670			
Aroclor 1254 {3}		7.16	0d	3201	0.0000	1.65			
Aroclor 1254 {4}		7.99	0d	2665	0.0000	1.18			
Aroclor 1254 {5}		8.74	0d	6839	0.0000	2.18			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0	0.0000	0.0000			
Aroclor 1262 {2}			0d	0	0.0000	0.0000			
Aroclor 1262 {3}			0d	0	0.0000	0.0000			
Aroclor 1262 {4}			0d	0	0.0000	0.0000			
Aroclor 1262 {5}			0d	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00	4.34	0	3084		0.0390			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.62	17891	8469	0.1130	0.1030			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

O: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.81			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}		5.46	0d	5212	0.0000	2.02			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}		6.36	0d	6354	0.0000	2.65			
Aroclor 1248 {5}		7.04	0d	3285	0.0000	0.7700			
Aroclor 1254			0	0	0.0000	1.27			
Aroclor 1254 {1}		6.70	0d	2833	0.0000	0.7710			
Aroclor 1254 {2}		7.04	0d	3285	0.0000	0.5670			
Aroclor 1254 {3}		7.16	0d	3201	0.0000	1.65			
Aroclor 1254 {4}		7.99	0d	2665	0.0000	1.18			
Aroclor 1254 {5}		8.74	0d	6839	0.0000	2.18			
Aroclors, Total			0	8714	0.0000	3.08	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0	0.0000	0.0000			
Aroclor 1262 {2}			0d	0	0.0000	0.0000			
Aroclor 1262 {3}			0d	0	0.0000	0.0000			
Aroclor 1262 {4}			0d	0	0.0000	0.0000			
Aroclor 1262 {5}			0d	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D
Inj Date : 26-AUG-2015 22:38
Sample Info: IB
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

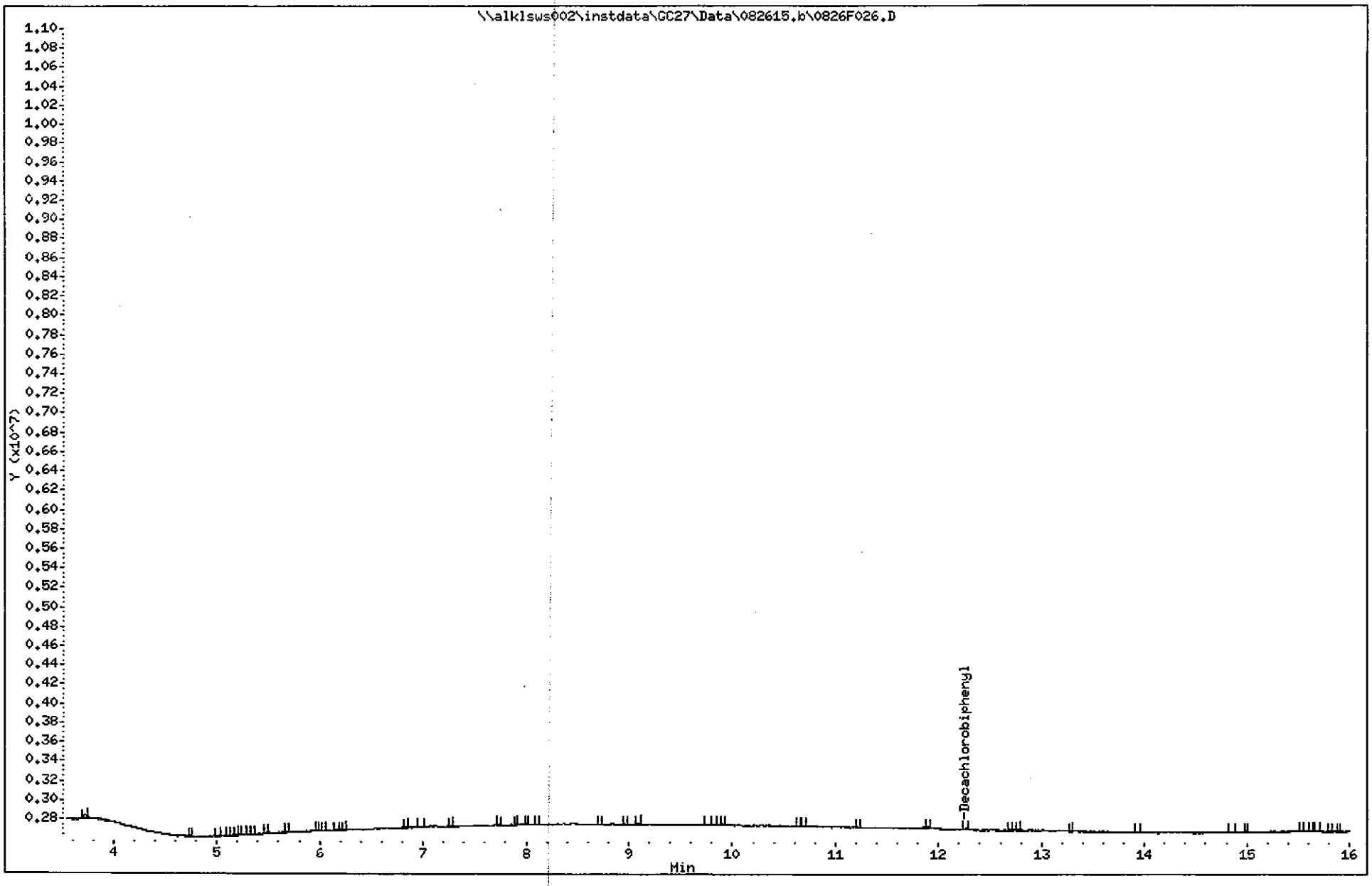
Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	0.000	4.336	0	3084	0.000	0.0392		
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.462	0	5212	0.000	2.02		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.359	0	6354	0.000	2.65		
	0.000	7.036	0	3285	0.000	0.770		
		Average of Peak Amounts =			0.000	1.81		
Aroclor 1254	0.000	6.696	0	2833	0.000	0.771		
	0.000	7.036	0	3285	0.000	0.567		
	0.000	7.162	0	3201	0.000	1.65		
	0.000	7.992	0	2665	0.000	1.18		
	0.000	8.742	0	6839	0.000	2.18		
		Average of Peak Amounts =			0.000	1.27		
Decachlorobiphenyl	12.266	13.619	17891	8469	0.113	0.103		100.00
Aroclors, Total	0.000	0.000	0	8714	0.000	3.08		

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Date : 26-AUG-2015 22:38
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR
Column phase: DB-35MS
Column diameter: 0.32



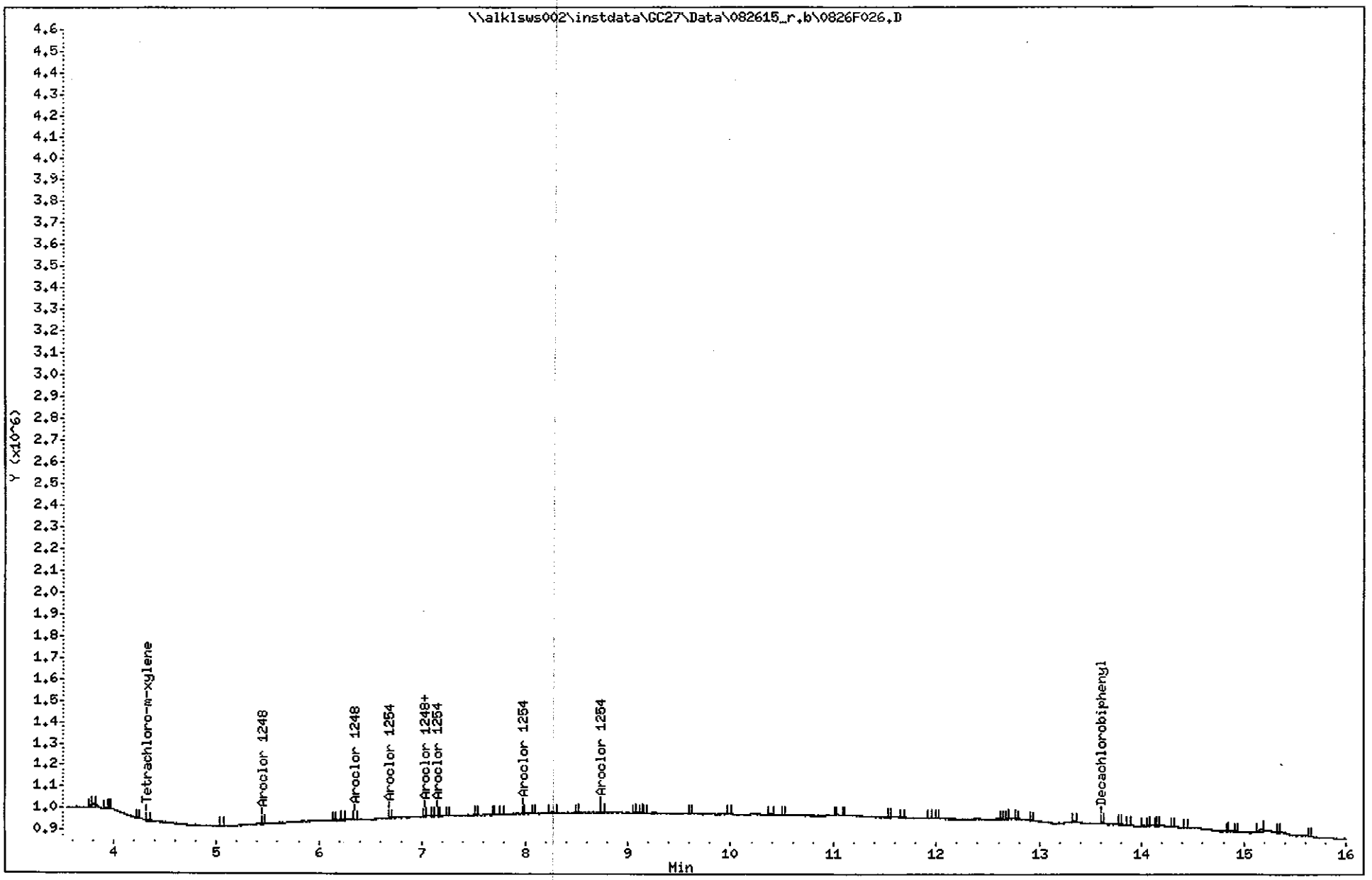
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D
Date : 26-AUG-2015 22:38
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\082815.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\082815\
Pre-Seq Cmd:
Post-Seq Cmd:

CAL: 13024
RUN: 9970

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0828F001	PCB_REG	PRIMER
2	IB	100	0828F002	PCB_REG	PRIMER
3	CCV	1	0828F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	2	0828F004	PCB_REG	IB
5	SMPL	3	0828F005	PCB_REG	K1508581-001 20X
6	SMPL	4	0828F006	PCB_REG	K1508582-001 20X
7	SMPL	5	0828F007	PCB_REG	K1508912-001
8	MS	6	0828F008	PCB_REG	K1508912-001MS (K1508988-001)
9	DMS	7	0828F009	PCB_REG	K1508912-001DMS (K1508988-001
10	SMPL	8	0828F010	PCB_REG	K1508912-002
11	SMPL	9	0828F011	PCB_REG	K1508988-001
12	SMPL	10	0828F012	PCB_REG	K1509109-001
13	LCS	11	0828F013	PCB_REG	KWG1507746-LCS
14	MB	12	0828F014	PCB_REG	KWG1507746-MB
15	CCV	1	0828F015	PCB_REG	1660 @ 500ppb PCB6-74E
16	IB	2	0828F016	PCB_REG	IB
17	SMPL	13	0828F017	PCB_REG	K1509219-001 - Report Rear
18	SMPL	14	0828F018	PCB_REG	K1509222-001
19	SMPL	15	0828F019	PCB_REG	K1509244-001
20	SMPL	16	0828F020	PCB_REG	K1509356-001
21	LCS	17	0828F021	PCB_REG	KWG1508148-LCS
22	DLCS	18	0828F022	PCB_REG	KWG1508148-DLCS
23	MB	19	0828F023	PCB_REG	KWG1508148-MB
24	SMPL	20	0828F024	PCB_REG	K1509219-001 STLC
25	MS	21	0828F025	PCB_REG	K1509219-001MS
26	SMPL	22	0828F026	PCB_REG	K1509222-001 STLC
27	SMPL	23	0828F027	PCB_REG	K1509244-001 STLC
28	LCS	24	0828F028	PCB_REG	KWG15081138-LCS
29	MB	25	0828F029	PCB_REG	KWG15081138-MB3
30	MB	26	0828F030	PCB_REG	KWG15081138-MB4
31	CCV	1	0828F031	PCB_REG	1660 @ 500ppb PCB6-74E
32	IB	2	0828F032	PCB_REG	IB
33	SMPL	27	0828F033	PCB_REG	K1509162-001
34	MS	28	0828F034	PCB_REG	K1509162-001MS
35	DMS	29	0828F035	PCB_REG	K1509162-001DMS
36	SMPL	30	0828F036	PCB_REG	K1509162-002
37	SMPL	31	0828F037	PCB_REG	K1509162-003
38	SMPL	32	0828F038	PCB_REG	K1509162-004
39	SMPL	33	0828F039	PCB_REG	K1509162-005
40	SMPL	34	0828F040	PCB_REG	K1509263-002
41	SMPL	35	0828F041	PCB_REG	K1509263-003
42	LCS	36	0828F042	PCB_REG	KWG1508017-LCS
43	DLCS	37	0828F043	PCB_REG	KWG1508017-DLCS

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F003.D	**Date Acquired:**	08/28/2015 13:26
Lab ID:	KWG1508233-1	**Date Quantitated:**	08/29/2015 18:33
RunType:	CCV	**Batch ID:**	KWG1508233
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F003.D
Lab ID: KWG1508233-1
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:26
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:44
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D			**Vial:**	1
Acqu Date:	08/28/2015 13:26	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.89	4.35	9807817	3523575	55.40	44.80			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.29	13.65	8292577	4085462	52.44	49.61			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	479.16	405.62			
Aroclor 1016 {1}	4.25	4.63	1799995m	759202	501.53	413.03			
Aroclor 1016 {2}	4.75	4.97	1477726m	1002774	493.22	411.89			
Aroclor 1016 {3}	4.95	5.60	4567742m	1192652	461.81	397.65			
Aroclor 1016 {4}	5.22	5.94	2362191m	888514	476.12	404.79			
Aroclor 1016 {5}	5.52	6.13	2397166m	863947	463.09	400.72			
Aroclor 1260			0	0	493.41	478.93			
Aroclor 1260 {1}	7.09	7.85	4589977	982163	465.96	445.25			
Aroclor 1260 {2}	8.11	9.29	4041962	1814059	498.16	479.93			
Aroclor 1260 {3}	8.67	9.74	4080687	1729870	495.77	479.35			
Aroclor 1260 {4}	9.13	10.42	9334707	4199628	496.56	486.38			
Aroclor 1260 {5}	9.92	11.06	7243548	2813615	510.59	503.75			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D
Inj Date : 28-AUG-2015 13:26
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.891	4.351	9807817	3523575	55.4	44.8		100.00
Aroclor 1016	4.251	4.634	1799995	759202	502	413	80.00- 120.00	100.00(M)
	4.754	4.967	1477726	1002774	493	412	63.82- 95.72	82.10(M)
	4.951	5.604	4567742	1192652	462	398	185.63- 278.45	398.89(M)
	5.224	5.937	2362191	888514	476	405	98.37- 147.56	131.23(M)
	5.517	6.134	2397166	863947	463	401	100.21- 150.31	133.18(M)
		Average of Peak Amounts =			479	406		
Aroclor 1260	7.094	7.854	4589977	982163	466	445	80.00- 120.00	100.00
	8.114	9.291	4041962	1814059	498	480	70.49- 105.74	88.06
	8.667	9.741	4080687	1729870	496	479	71.38- 107.06	88.90
	9.134	10.421	9334707	4199628	497	486	164.52- 246.79	203.37
	9.921	11.057	7243548	2813615	511	504	127.82- 191.73	157.81
		Average of Peak Amounts =			494	479		
Decachlorobiphenyl	12.287	13.651	8292577	4085462	52.4	49.6		100.00

QC Flag Legend

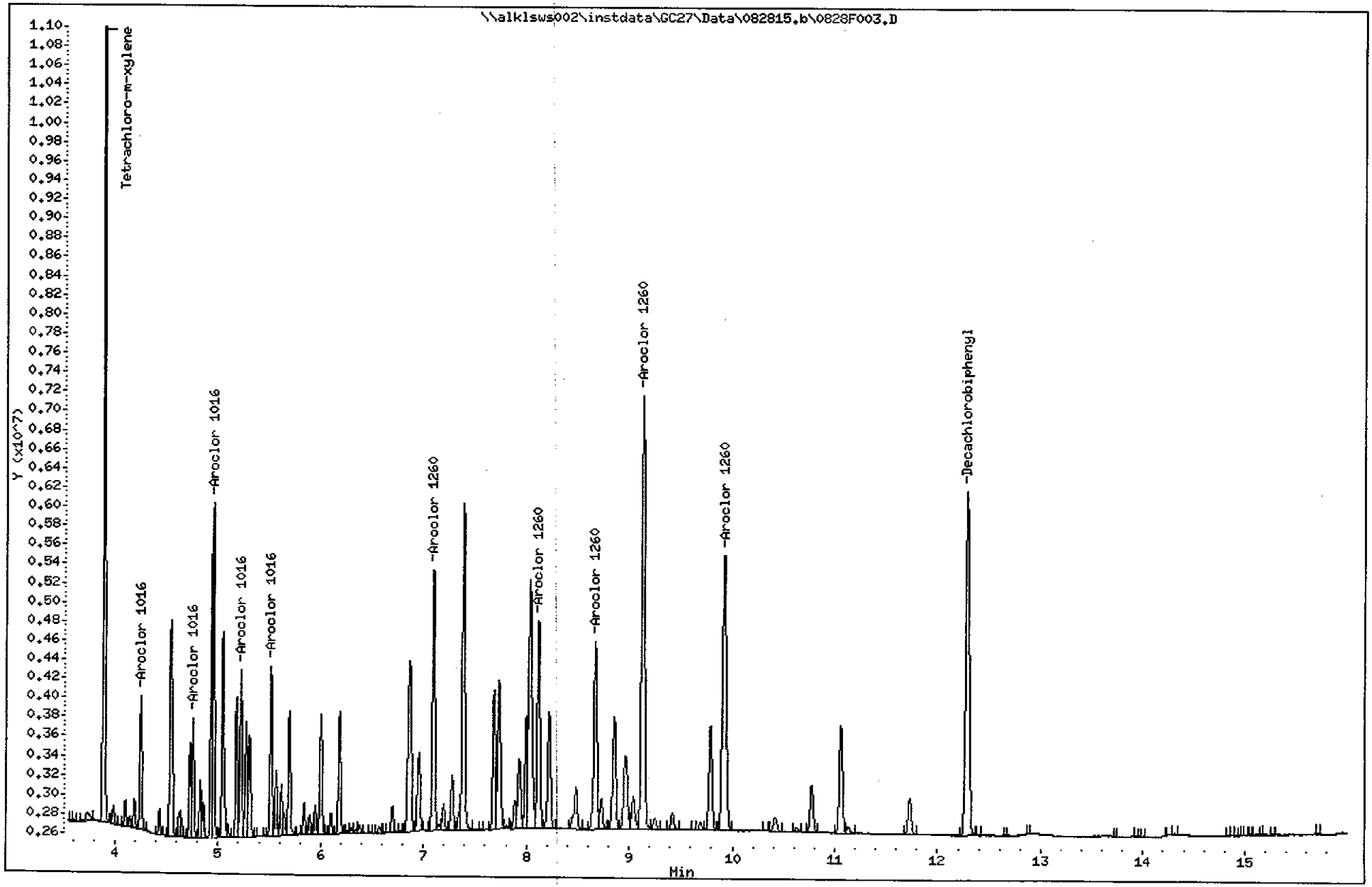
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Date : 28-AUG-2015 13:26
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

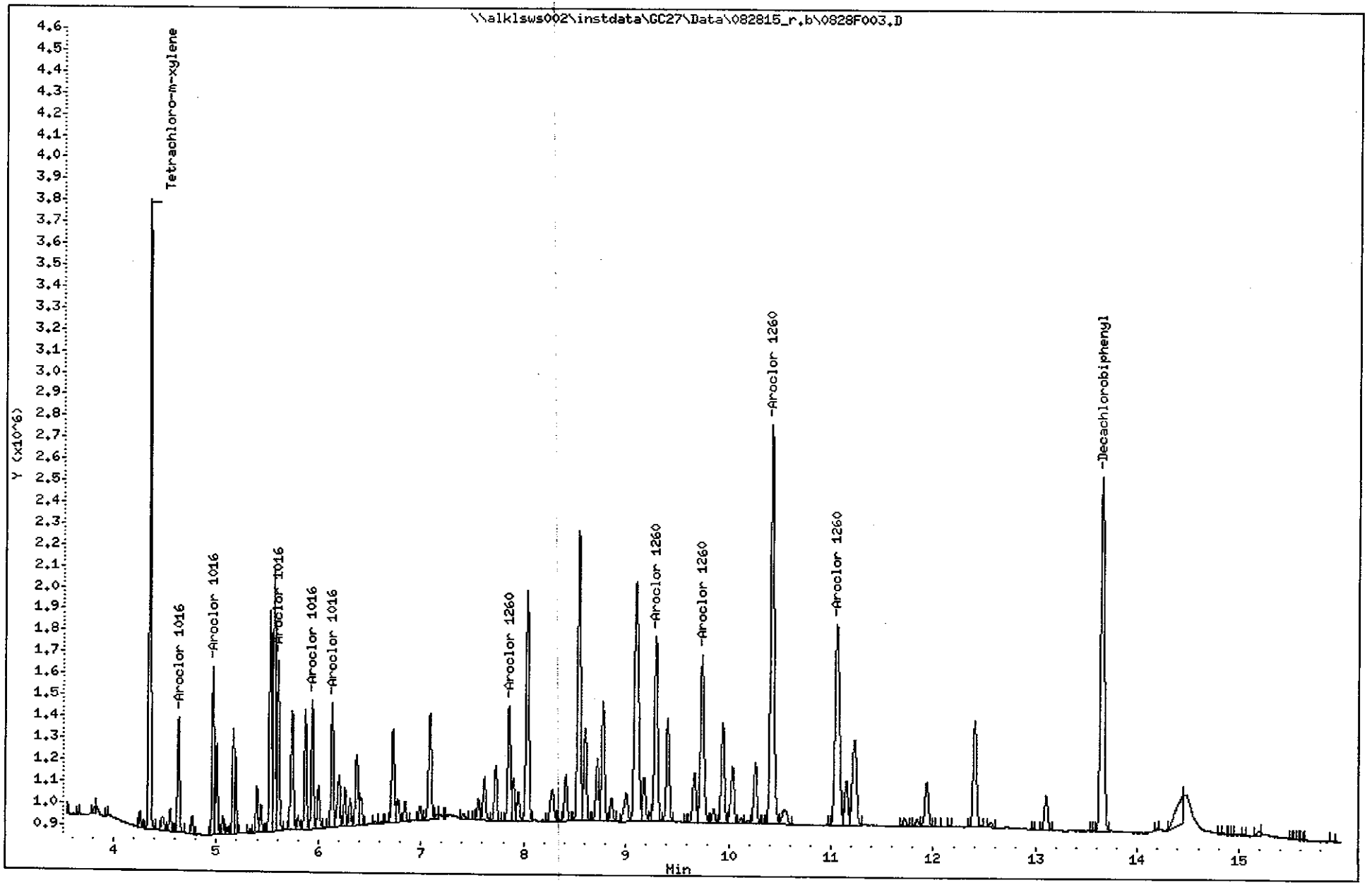


Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D
Date : 28-AUG-2015 13:26
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F004.D
Lab ID: KWG1508233-2
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:50
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	D/S

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:47
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F004.D
Lab ID: KWG1508233-2
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:50
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:51
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D			**Vial:**	2
Acqu Date:	08/28/2015 13:50	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00	13.63	0	6861		0.0830			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D			**Vial:**	2
Acqu Date:	08/28/2015 13:50	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.76			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}		5.49	0	4462	0.0000	1.73			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}		6.37	0	4998	0.0000	2.08			
Aroclor 1248 {5}		7.07	0	6234	0.0000	1.46			
Aroclor 1254			0	0	0.0000	1.45			
Aroclor 1254 {1}		6.71	0	8056	0.0000	2.19			
Aroclor 1254 {2}		7.07	0	6234	0.0000	1.08			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}		8.77	0	3397	0.0000	1.08			
Aroclors, Total			10420	11127	0.8120	3.21	J	J	
Aroclor 1260			0	0	0.8117	0.0000			
Aroclor 1260 {1}	7.09		13047	0	1.32	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.11		10001	0	0.5320	0.0000			
Aroclor 1260 {5}	9.90		8213	0	0.5790	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D
Inj Date : 28-AUG-2015 13:50
Sample Info: IB
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.493	0	4462	0.000	1.73		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.366	0	4998	0.000	2.08		
	0.000	7.069	0	6234	0.000	1.46		
		Average of Peak Amounts =			0.000	1.76		
Aroclor 1254	0.000	6.713	0	8056	0.000	2.19		
	0.000	7.069	0	6234	0.000	1.08		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	8.769	0	3397	0.000	1.08		
		Average of Peak Amounts =			0.000	1.45		
Aroclor 1260	7.086	0.000	13047	0	1.32	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	70.49- 105.74	0.00(T)
	0.000	0.000	0	0	0.000	0.000	71.38- 107.06	0.00(T)
	9.113	0.000	10001	0	0.532	0.000	164.52- 246.79	76.65(T)
	9.896	0.000	8213	0	0.579	0.000	127.82- 191.73	62.95(T)
		Average of Peak Amounts =			0.810	0.000		
Decachlorobiphenyl	0.000	13.626	0	6861	0.000	0.0833		
Aroclors, Total	0.000	0.000	10420	11127	0.812	3.21		0.00

QC Flag Legend

T - Target compound detected outside RT window.

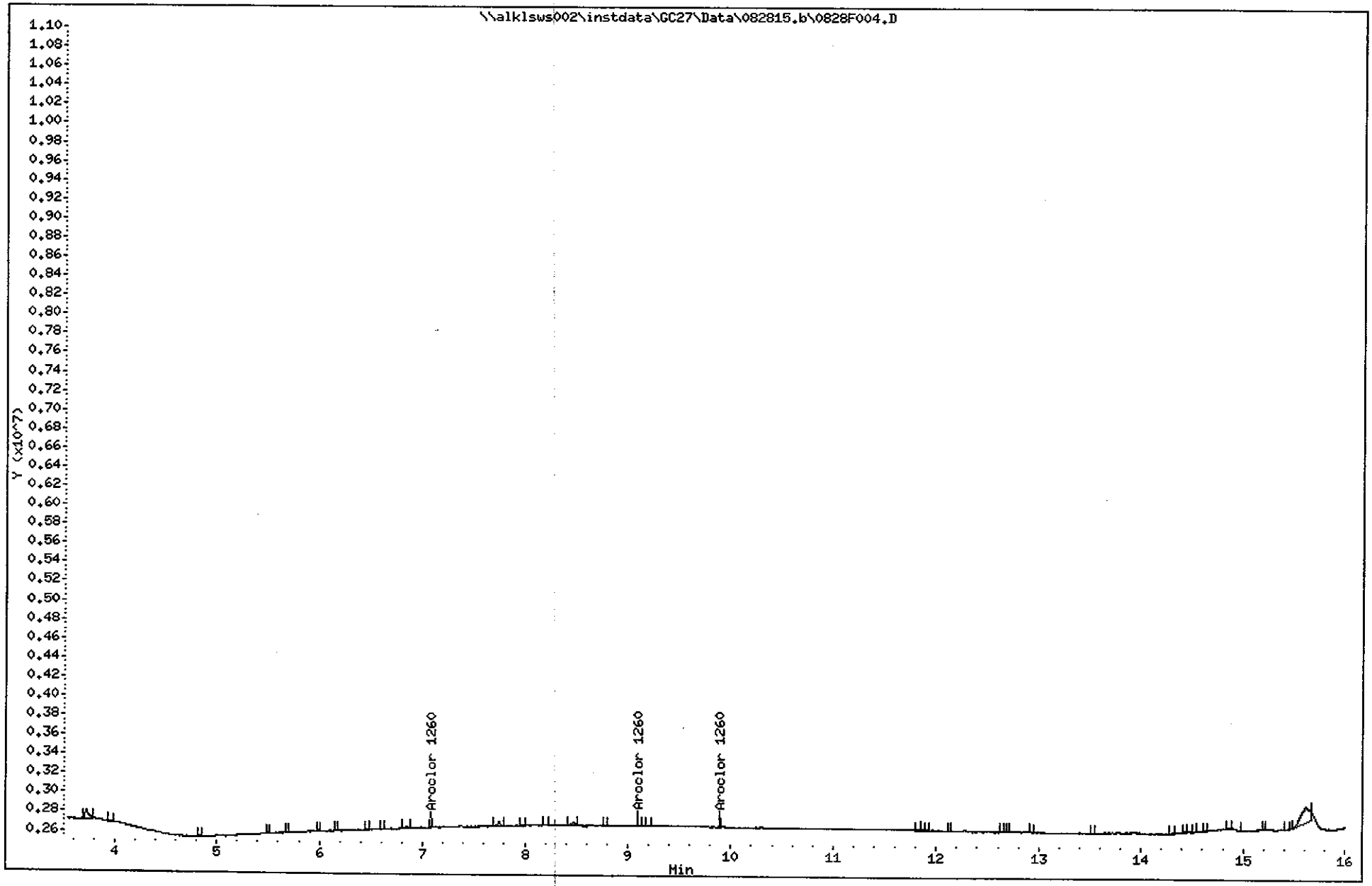
Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Date : 28-AUG-2015 13:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



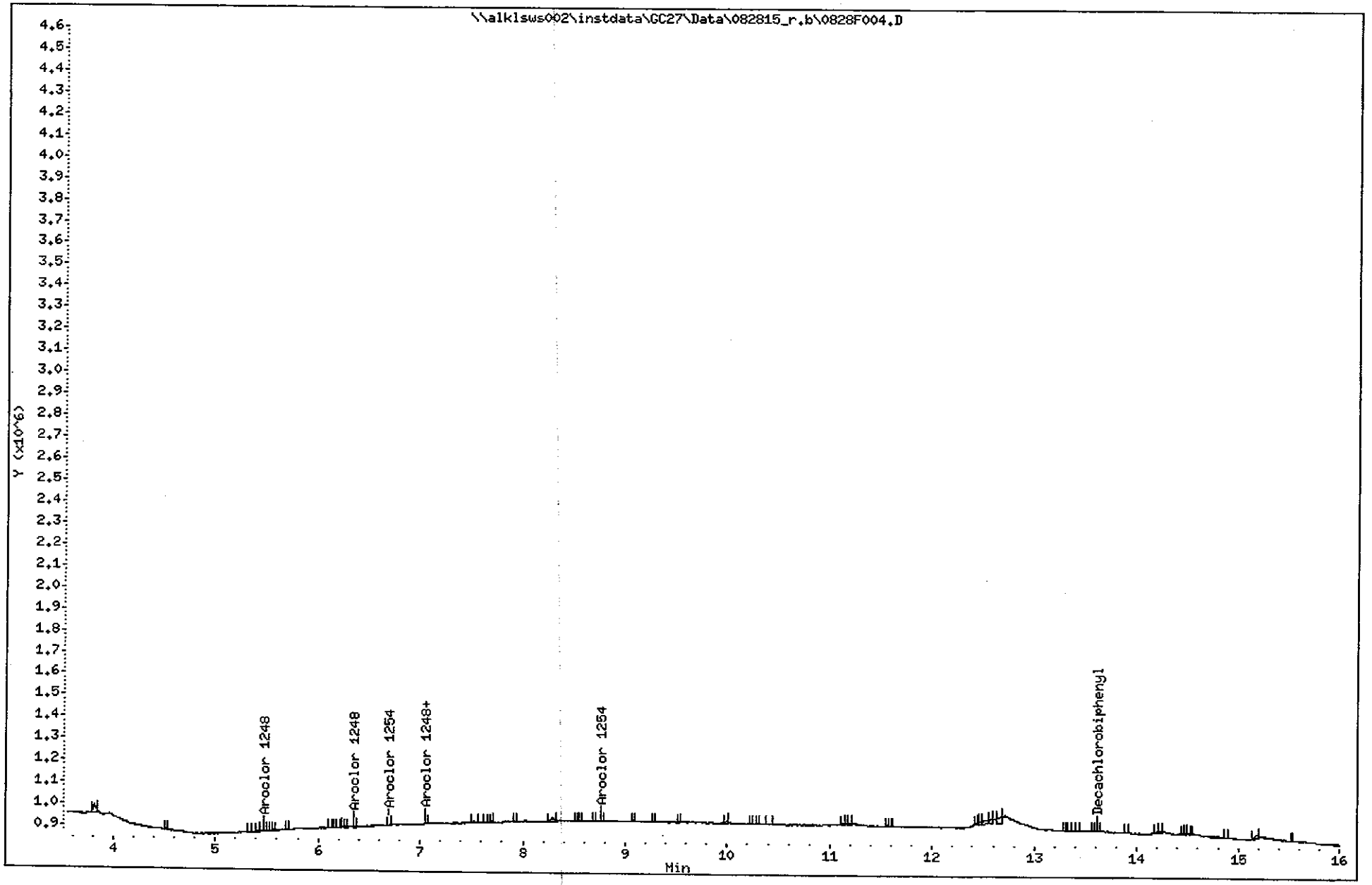
Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D
Date : 28-AUG-2015 13:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F015.D
Lab ID: KWG1508233-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:09
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:07
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F015.D	**Date Acquired:**	08/28/2015 18:09
Lab ID:	KWG1508233-3	**Date Quantitated:**	08/29/2015 18:33
RunType:	CCV	**Batch ID:**	KWG1508233
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:10
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D			**Vial:**	1
Acqu Date:	08/28/2015 18:09	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIMEI
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9780108	3550937	55.25	45.15			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.63	8357027	4083699	52.85	49.59			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	473.75	401.62			
Aroclor 1016 {1}	4.24	4.62	1773203	753154	494.07	409.74			
Aroclor 1016 {2}	4.75	4.96	1502513	995140	501.49	408.75			
Aroclor 1016 {3}	4.94	5.59	4508802	1163807	455.85	388.03			
Aroclor 1016 {4}	5.21	5.93	2299048	880502	463.40	401.14			
Aroclor 1016 {5}	5.51	6.12	2349781	863313	453.94	400.42			
Aroclor 1260			0	0	492.51	473.28			
Aroclor 1260 {1}	7.08	7.84	4559419	967078	462.86	438.41			
Aroclor 1260 {2}	8.10	9.27	4012343	1785601	494.51	472.40			
Aroclor 1260 {3}	8.65	9.72	4089432	1723938	496.83	477.70			
Aroclor 1260 {4}	9.11	10.40	9314317	4205573	495.48	487.07			
Aroclor 1260 {5}	9.90	11.04	7275988	2741408	512.87	490.82			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D
Inj Date : 28-AUG-2015 18:09
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

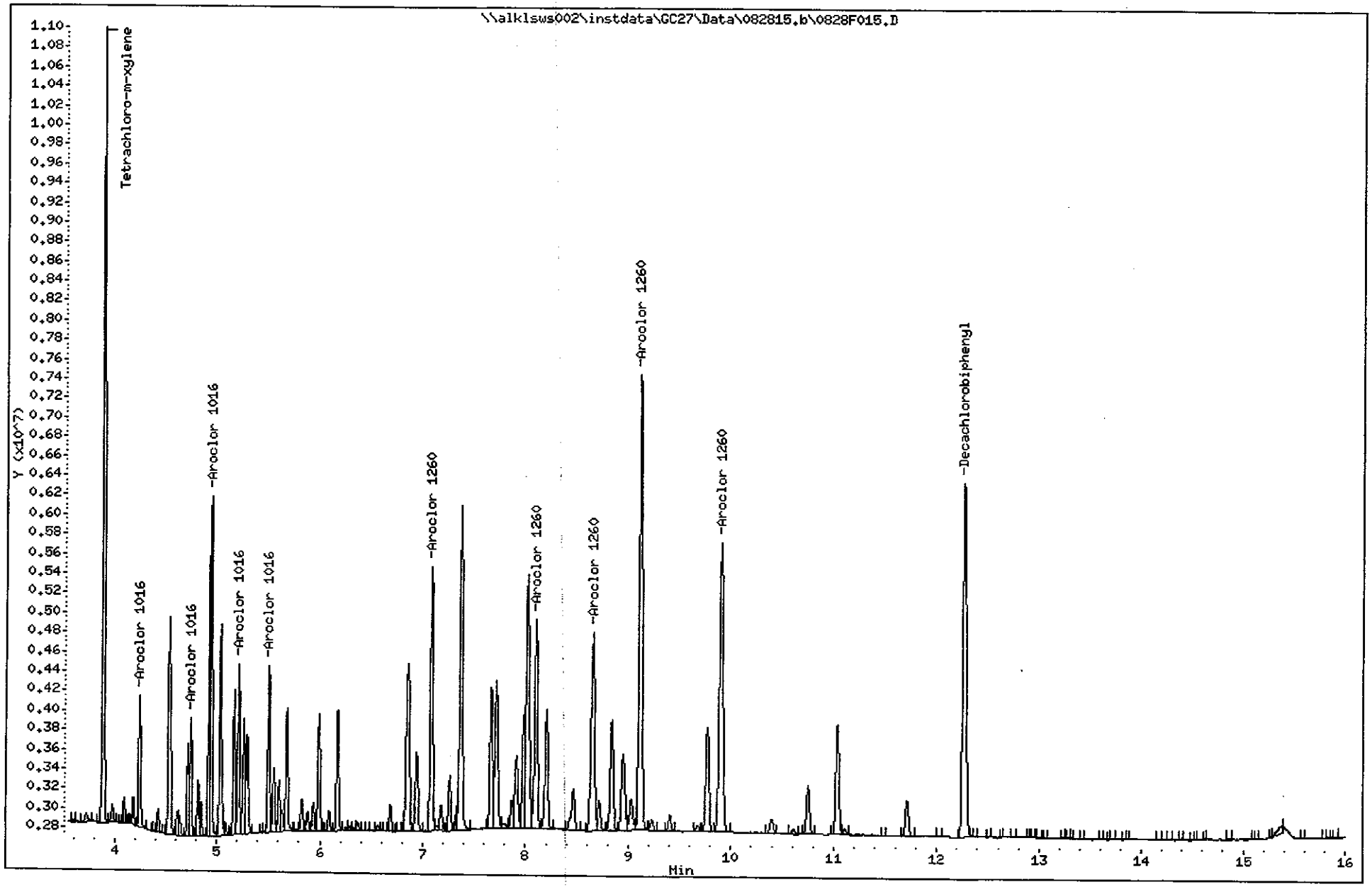
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.883	4.340	9780108	3550937	55.2	45.1		100.00
Aroclor 1016	4.243	4.623	1773203	753154	494	410	80.00- 120.00	100.00
	4.747	4.957	1502513	995140	501	409	63.82- 95.72	84.73
	4.940	5.593	4508802	1163807	456	388	185.63- 278.45	254.27
	5.213	5.927	2299048	880502	463	401	98.37- 147.56	129.66
	5.507	6.120	2349781	863313	454	400	100.21- 150.31	132.52
		Average of Peak Amounts =			474	402		
Aroclor 1260	7.080	7.837	4559419	967078	463	438	80.00- 120.00	100.00
	8.100	9.273	4012343	1785601	495	472	70.49- 105.74	88.00
	8.653	9.723	4089432	1723938	497	478	71.38- 107.06	89.69
	9.113	10.400	9314317	4205573	495	487	164.52- 246.79	204.29
	9.900	11.037	7275988	2741408	513	491	127.82- 191.73	159.58
		Average of Peak Amounts =			493	473		
Decachlorobiphenyl	12.267	13.630	8357027	4083699	52.8	49.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Date : 28-AUG-2015 18:09
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

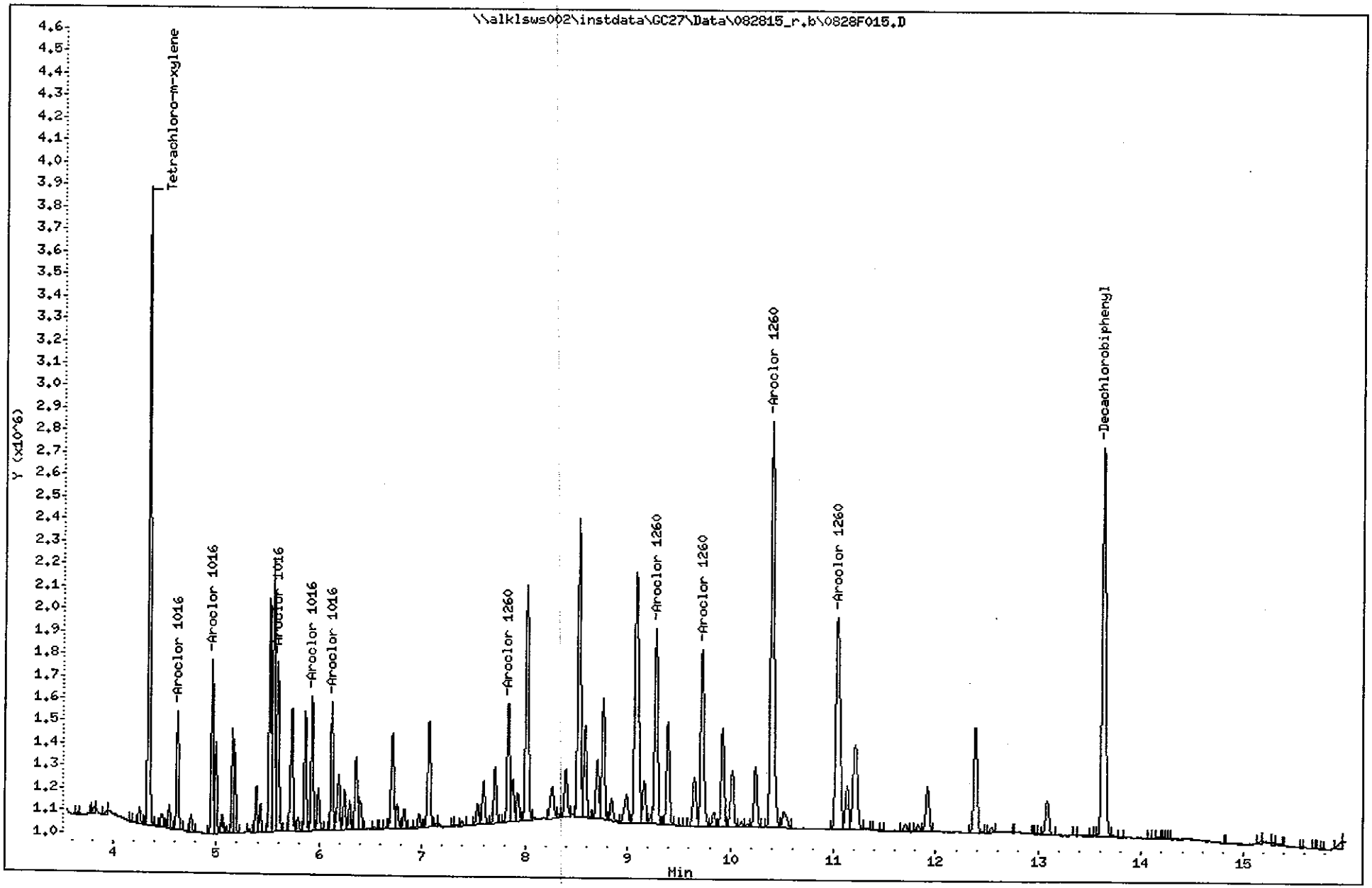


Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D
Date : 28-AUG-2015 18:09
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F016.D
Lab ID: KWG1508233-4
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:33
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:13
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F016.D
Lab ID: KWG1508233-4
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:33
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:17
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D			**Vial:**	2
Acqu Date:	08/28/2015 18:33	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24		8310	0	0.0530	0.0000			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	1.33			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D			**Vial:**	2
Acqu Date:	08/28/2015 18:33	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}		5.52	0	3030	0.0000	0.9200			
Aroclor 1242 {3}		5.69	0	2740	0.0000	1.56			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}		6.82	0	3019	0.0000	1.49			
Aroclor 1248			0	0	0.0000	1.43			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}		5.52	0	3030	0.0000	1.18			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}		6.35	0	2662	0.0000	1.11			
Aroclor 1248 {5}		7.05	0	8529	0.0000	2.00			
Aroclor 1254			0	0	4.19	2.11			
Aroclor 1254 {1}	6.26	6.70	9715	4602	2.50	1.25			
Aroclor 1254 {2}		7.05	0	8529	0.0000	1.47			
Aroclor 1254 {3}		7.12	0	5075	0.0000	2.62			
Aroclor 1254 {4}	7.13	8.01	13537	6986	1.42	3.08			
Aroclor 1254 {5}	7.74		54800	0	8.66	0.0000			
Aroclors, Total			26017	19191	4.19	5.94	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	1.08			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}		9.72	0	3098	0.0000	0.7650			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}		11.05	0	7767	0.0000	1.16			
Aroclor 1262 {5}		12.37	0	4805	0.0000	1.32			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D
Inj Date : 28-AUG-2015 18:33
Sample Info: IB
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	0.000	0.000	0	0	0.000	0.000		
	0.000	5.523	0	3030	0.000	0.920		
	0.000	5.693	0	2740	0.000	1.56		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.823	0	3019	0.000	1.49		
		Average of Peak Amounts =			0.000	1.32		
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.523	0	3030	0.000	1.17		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.350	0	2662	0.000	1.11		
	0.000	7.053	0	8529	0.000	2.00		
		Average of Peak Amounts =			0.000	1.43		
Aroclor 1254	6.260	6.703	9715	4602	2.50	1.25	80.00- 120.00	100.00(T)
	0.000	7.053		8529		1.47	126.24- 189.36	185.33(T)
	0.000	7.120		5075		2.62	43.97- 65.96	110.28(T)
	7.130	8.007	13537	6986	1.42	3.08	1126.72-1690.08	139.34(T)
	7.740	0.000	54800		8.65		281.12- 421.67	564.08(T)
		Average of Peak Amounts =			4.19	2.11		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000		
	0.000	9.720	0	3098	0.000	0.765		
	0.000	0.000	0	0	0.000	0.000		
	0.000	11.047	0	7767	0.000	1.16		
	0.000	12.370	0	4805	0.000	1.32		
		Average of Peak Amounts =			0.000	1.08		
Decachlorobiphenyl	12.243	0.000	8310	0	0.0526	0.000		100.00
Aroclors, Total	0.000	0.000	26017	19191	4.19	5.94		0.00

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Report Date: 29-Aug-2015 18:33

QC Flag Legend

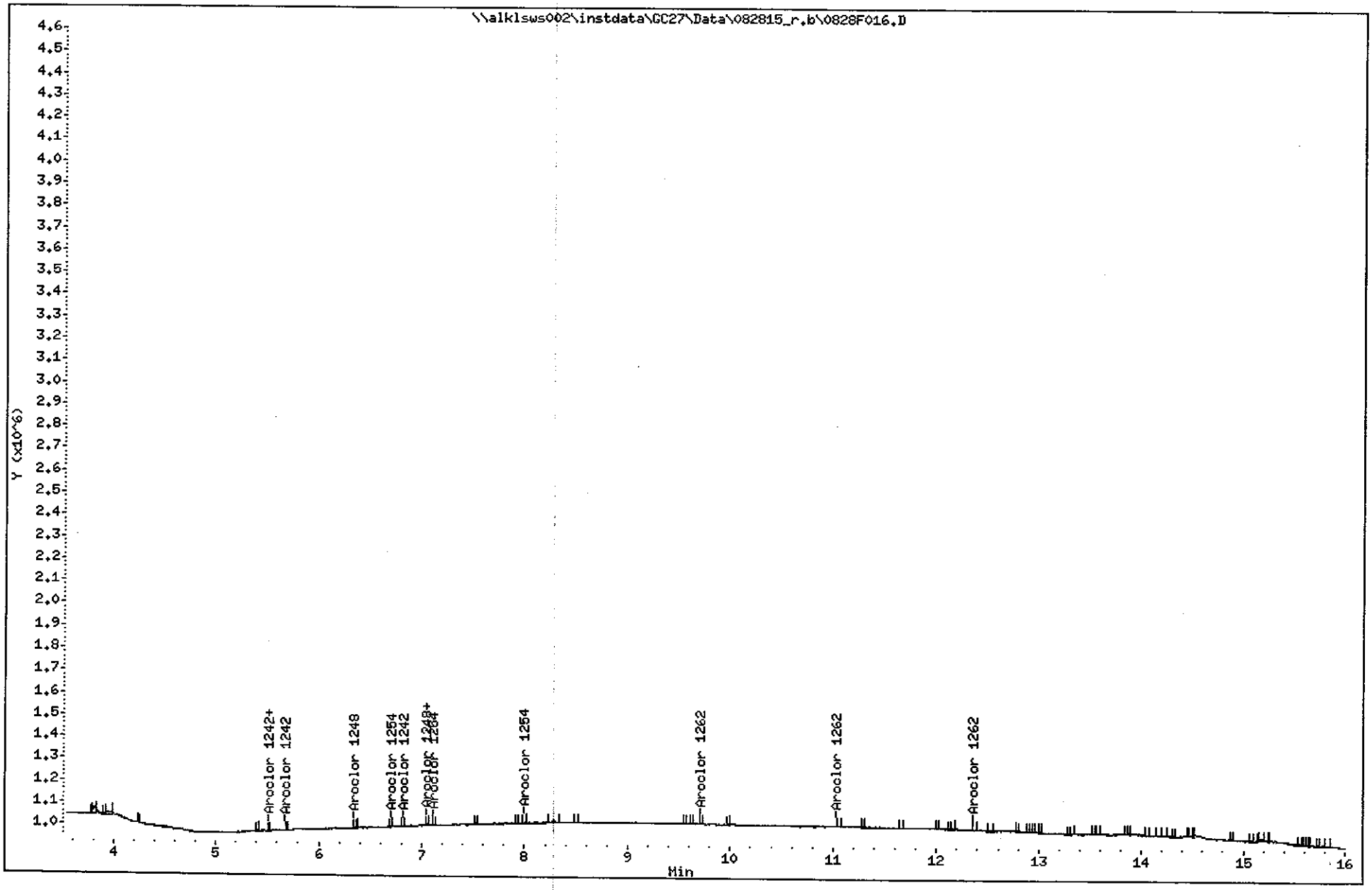
T - Target compound detected outside RT window.

Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D
Date : 28-AUG-2015 18:33
Client ID:
Sample Info: IB

Column phase: DB-XLB

Instrument: GC27.i

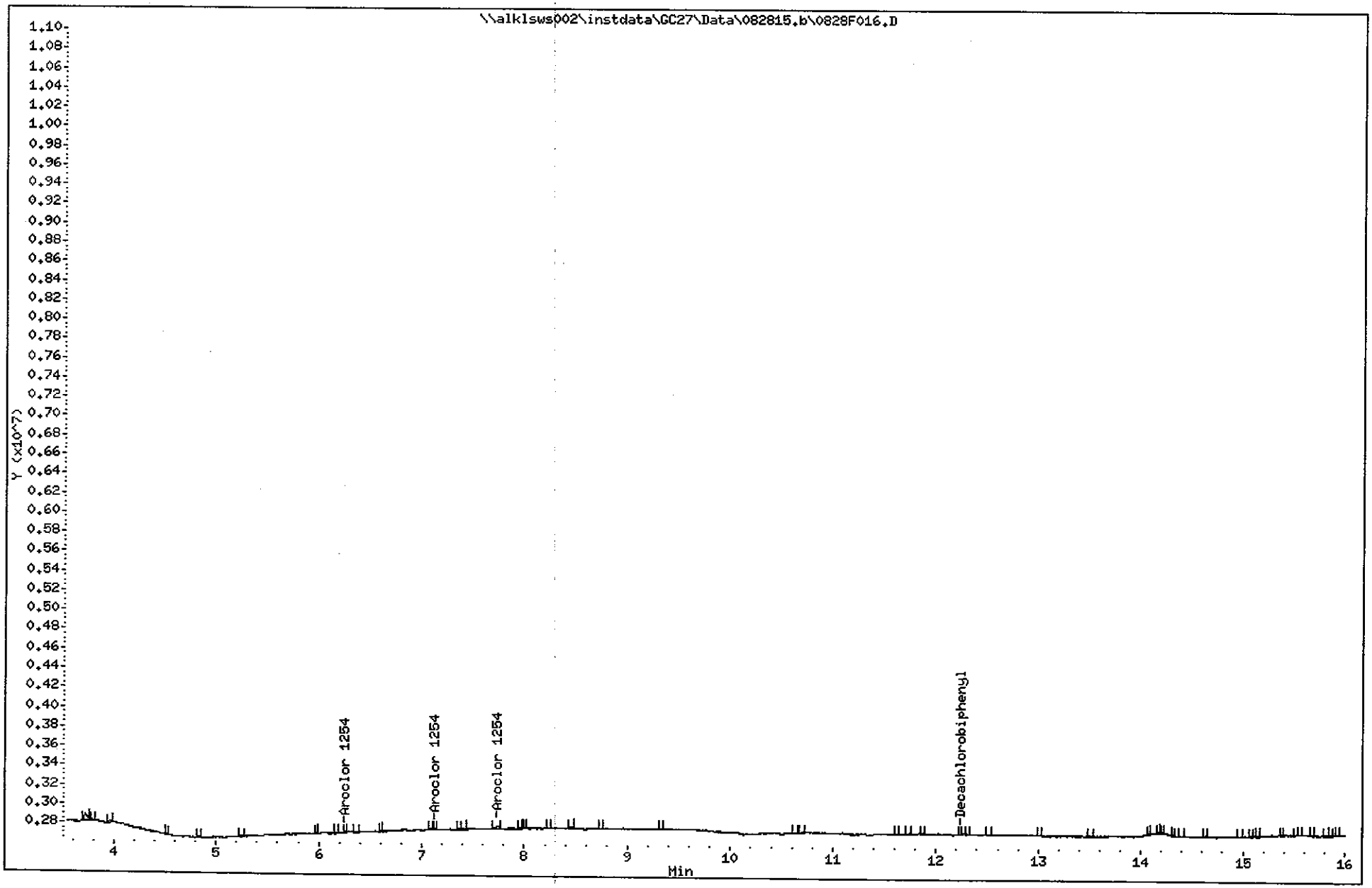
Operator: SHURRAY
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Date : 28-AUG-2015 18:33
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY
Column phase: DB-35MS
Column diameter: 0.32



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September 08, 2015

Analytical Report for Service Request No: K1509039

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz - Oregon Steel C1144-0630 / C1144-0630

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory August 18, 2015
For your reference, these analyses have been assigned our service request number **K1509039.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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- Total Solids
- Metals
- Polychlorinated Biphenyls (PCBs)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630	**Date Received:**	08/18/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two soil samples were received for analysis at ALS Environmental on 08/18/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Chromium and Manganese for sample BF-3 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The matrix spike recovery of Copper for sample BF-3 was outside the ALS control criteria as a result of the heterogeneous character of the sample. The Relative Percent Difference (RPD) for the replicate analysis supported this. Since the unspiked samples contained high analyte concentrations relative to the amount spiked, the variability between replicates was sufficient to bias the percent recoveries outside normal ALS control criteria. The associated QA/QC results (e.g. control sample, calibration standards, etc.) indicated the analysis was in control. No further corrective action was appropriate.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Arsenic, Copper, and Manganese in sample BF-3 was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Aroclor 1016 for BF-3 was outside control criteria because of matrix interference. The chromatogram indicated the presence of Aroclor 1248, which prevented accurate quantitation of the target analytes. The problem stemmed from common peaks for Aroclor 1016and 1248. Complete resolution of these two Aroclors was not possible, so a portion of Aroclor 1248 is unavoidably quantitated as Aroclor 1016. The net effect was a high bias to the value reported for Aroclor 1016. No further corrective action was appropriate.

Approved by_____

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria were not met for Aroclor 1260 in CAL 13624. The data quality was not affected. No further corrective action was necessary

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for Aroclor 1016 in the replicate matrix spike analyses of BF-3 was outside control criteria. All spike recoveries in the MS, DMS, and associated Laboratory Control Sample (LCS) were within acceptance limits or not applicable, indicating the analytical batch was in control. No further corrective action was appropriate.

Elevated Detection Limits:
These field samples required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:
The samples in this data set appear to have been subjected to environmental stresses such as weathering, causing pattern degradation and changing the peak ratios for the lighter less-chlorinated compounds. When pattern degradation occurs, correct identification and quantitative analysis of the individual Aroclors can be subjective. Care was taken to report the Aroclor with the best pattern match. Aroclor 1248, 1254 and 1260 was reported for this data set.

Three Aroclors were identified: Aroclor 1248, Aroclor 1254, and Aroclor 1260. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Aroclor 1260 was identified based on the presence of late eluting PCB peaks in the chromatogram. The remainder of the PCB pattern was identified as Aroclor 1254 because PCB peak height in the middle of the chromatogram was larger than could be attributed to either Aroclor 1242, Aroclor 1248, or Aroclor 1260.

When Aroclor mixtures are present in a sample, care is taken to minimize the possibility of double-counting PCBs. Analytical peaks are selected based on the best resolution possible for that particular sample. However, when a mixture of Aroclors 1248, 1254 and 1260 are present in a sample, the potential exists for a high bias from contribution of one Aroclor to another due to common peaks or peaks that cannot be completely resolved.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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CHAIN OF CUSTODY

SR#: K1509039

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PAGE 1 OF 1 COC #

PROJECT NAME: EVRAZ - Oregon Steel C1144-0630
PROJECT NUMBER: C1144-0630
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CITY/STATE/ZIP: Portland, OR 97204
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PHONE #: 503-943-3629 FAX: 503-284-5755
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors ☒ 8082	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below) 6020A	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐				REMARKS
BF-3	8/17/15	1145		soil	2						X				X									
BF-7	8/17/15	1200		soil	2						X				X									

8/17/15

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # ___
Bill To: ___

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al (As) Sb Ba Be B Ca (Cd) Co (Cr) (Cu) Fe (Pb) Mg (Mn) Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date/Time: 8/18/15 1055	Signature: [signature] Date/Time: 8-18-15 10:55	Signature: Date/Time:	Signature: [signature] Date/Time: 8/18/15 1430
Printed Name: Andrew Halmstad Firm: Integral	Printed Name: Bedgat Firm: ALS	Printed Name: Firm:	Printed Name: SWOLF Firm: ALS

RCOC #1 03/10

PC Gmg

Cooler Receipt and Preservation Form

Client / Project: Integral Service Request *K15* 09039

Received: 8/18/15 Opened: 8/18/15 By: BW Unloaded: 8/18/15 By: BW

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
1.4	1.5	3.5	3.6	+0.1	359			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	08/17/15
Sample Matrix:	Soil	**Date Received:**	08/18/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-3	K1509039-001	**92.2**	-	-	1	08/19/15 12:01	
BF-7	K1509039-002	**92.6**	-	-	1	08/19/15 12:01	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1509002-001DUP	-	-	87.1	87.8		<1	20	08/19/15
Batch QC	K1509002-004DUP	-	-	68.4	65.4		4	20	08/19/15
Batch QC	K1509002-008DUP	-	-	91.5	91.9		<1	20	08/19/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1509039
Project No.: C1144-0630
Date Collected: 8/17/2015
Project Name: Evraz - Oregon Steel C1144-0630
Date Received: 8/18/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-3
Lab Code: K1509039-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.49	0.06	5.0	08/21/15	08/24/15	9.33		*
Cadmium	6020A	0.020	0.005	5.0	08/21/15	08/24/15	0.614		
Chromium	6020A	0.20	0.03	5.0	08/21/15	08/24/15	270		
Copper	6020A	0.098	0.020	5.0	08/21/15	08/24/15	54.0		N*
Lead	6020A	0.049	0.005	5.0	08/21/15	08/24/15	42.1		
Manganese	6020A	0.49	0.20	50.0	08/21/15	08/25/15	9970		*
Zinc	6020A	0.49	0.10	5.0	08/21/15	08/24/15	181		

% Solids: 92.2

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1509039
Project No.: C1144-0630
Date Collected: 8/17/2015
Project Name: Evraz - Oregon Steel C1144-0630
Date Received: 8/18/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-7
Lab Code: K1509039-002

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.06	5.0	08/21/15	08/24/15	4.76		*
Cadmium	6020A	0.020	0.005	5.0	08/21/15	08/24/15	0.799		
Chromium	6020A	0.20	0.03	5.0	08/21/15	08/24/15	530		
Copper	6020A	0.100	0.020	5.0	08/21/15	08/24/15	49.9		N*
Lead	6020A	0.050	0.005	5.0	08/21/15	08/24/15	50.7		
Manganese	6020A	0.50	0.20	50.0	08/21/15	08/25/15	5340		*
Zinc	6020A	0.50	0.10	5.0	08/21/15	08/24/15	209		

% Solids: 92.6

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1509039
Project No.: C1144-0630
Date Collected:
Project Name: Evraz - Oregon Steel C1144-0630
Date Received:
Matrix: SEDIMENT
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1509275-14

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.06	5.0	08/21/15	08/24/15	0.06	U	*
Cadmium	6020A	0.020	0.005	5.0	08/21/15	08/24/15	0.005	U	
Chromium	6020A	0.20	0.03	5.0	08/21/15	08/24/15	0.18	J	
Copper	6020A	0.100	0.020	5.0	08/21/15	08/24/15	0.020	U	N*
Lead	6020A	0.050	0.005	5.0	08/21/15	08/24/15	0.005	U	
Manganese	6020A	0.05	0.02	5.0	08/21/15	08/25/15	0.02	U	*
Zinc	6020A	0.50	0.10	5.0	08/21/15	08/24/15	0.10	U	

% Solids: 100.0

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic	25.0	25.3	101	25.0	25.0	100	25.8	103	6020A
Cadmium	12.5	12.6	101	25.0	24.9	100	24.6	98	6020A
Chromium	10.0	9.1	91	25.0	22.7	91	24.3	97	6020A
Copper	12.5	12.2	98	25.0	24.7	99	26.4	106	6020A
Lead	25.0	25.8	103	25.0	25.4	102	25.4	102	6020A
Manganese	25.0	24.1	96	25.0	24.5	98	25.9	104	6020A
Zinc	25.0	23.9	96	25.0	22.9	92	24.3	97	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	25.0	100	24.8	99	6020A
Cadmium				25.0	24.9	100	25.1	100	6020A
Chromium				25.0	24.1	96	23.3	93	6020A
Copper				25.0	25.7	103	23.9	96	6020A
Lead				25.0	25.3	101	26.3	105	6020A
Manganese				25.0	26.6	106			6020A
Zinc				25.0	24.9	100	23.4	94	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	24.4	98	24.6	98	6020A
Cadmium				25.0	25.2	101	25.2	101	6020A
Chromium				25.0	24.1	96	24.6	98	6020A
Copper				25.0	24.7	99	24.7	99	6020A
Lead				25.0	25.1	100	25.0	100	6020A
Zinc				25.0	23.8	95	24.6	98	6020A

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1509039

Contract: C1144-0630 **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICVS									
	Arsenic	0.940	1.000	94	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Cadmium	0.036	0.040	90	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Chromium	0.388	0.400	97	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Copper	0.196	0.200	98	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Lead	0.099	0.100	99	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Zinc	0.980	1.000	98	70.0 - 130.0	MS	8/24/2015	18:49	082415d
LLCCVS1									
	Arsenic	0.841	1.000	84	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Cadmium	0.039	0.040	98	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Chromium	0.359	0.400	90	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Copper	0.204	0.200	102	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Lead	0.106	0.100	106	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Zinc	0.903	1.000	90	70.0 - 130.0	MS	8/24/2015	20:58	082415d
LLCCVS2									
	Arsenic	0.963	1.000	96	70.0 - 130.0	MS	8/24/2015	22:50	082415d
	Cadmium	0.049	0.040	122	70.0 - 130.0	MS	8/24/2015	22:50	082415d
	Chromium	0.386	0.400	96	70.0 - 130.0	MS	8/24/2015	22:50	082415d
	Copper	0.209	0.200	104	70.0 - 130.0	MS	8/24/2015	22:50	082415d
	Lead	0.108	0.100	108	70.0 - 130.0	MS	8/24/2015	22:50	082415d
	Zinc	0.960	1.000	96	70.0 - 130.0	MS	8/24/2015	22:50	082415d
LLCCVS3									
	Arsenic	0.931	1.000	93	70.0 - 130.0	MS	8/24/2015	23:21	082415d
	Cadmium	0.039	0.040	98	70.0 - 130.0	MS	8/24/2015	23:21	082415d
	Chromium	0.458	0.400	114	70.0 - 130.0	MS	8/24/2015	23:21	082415d
	Copper	0.201	0.200	100	70.0 - 130.0	MS	8/24/2015	23:21	082415d
	Lead	0.104	0.100	104	70.0 - 130.0	MS	8/24/2015	23:21	082415d
	Zinc	0.975	1.000	98	70.0 - 130.0	MS	8/24/2015	23:21	082415d
LLICVS1									
	Manganese	0.115	0.100	115	70.0 - 130.0	MS	8/25/2015	11:05	082515a

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1509039

Contract: C1144-0630 **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCVS1									
	Manganese	0.097	0.100	97	70.0 - 130.0	MS	8/25/2015	12:52	082515a

Metals

- 3 -

BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic	0.12	U	0.12	U	0.12	U	-0.14	J	6020A
Cadmium	0.010	U	0.010	U	0.010	U	0.010	U	6020A
Chromium	0.06	U	0.06	U	0.06	U	0.06	U	6020A
Copper	0.040	U	0.040	U	0.040	U	0.040	U	6020A
Lead	0.010	U	0.010	U	0.022	J	0.010	U	6020A
Manganese	0.04	U	0.04	U	0.04	U	0.04	U	6020A
Zinc	0.20	U	0.20	U	0.20	U	0.20	U	6020A

Metals

- 3 -

BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic			0.12	U	0.12	U	0.12	U	6020A
Cadmium			0.010	U	0.010	U	0.010	U	6020A
Chromium			0.06	U	0.06	U	0.06	U	6020A
Copper			0.040	U	0.040	U	0.040	U	6020A
Lead			0.010	U	0.010	U	0.010	U	6020A
Zinc			0.20	U	0.20	U	0.20	U	6020A

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICP ID Number: K-ICP-MS-04 **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	25.0	0.0	24.3	97			
Cadmium	0.0	25.0	0.1	22.5	90			
Chromium	0.0	50.0	0.2	49.1	98			
Copper	0.0	50.0	0.3	44.0	88			
Lead	0.0		0.1	0.1				
Manganese	0.0	50.0	1.5	55.3	111			
Zinc	0.0	25.0	0.3	22.2	89			

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz - Oregon Steel C1144-0630 **Basis:** DRY

Matrix: SOIL **% Solids:** 92.2

Sample Name: BF-3S **Lab Code:** K1509039-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	75 - 125	96.05		9.33		91.14	95		6020A
Cadmium	75 - 125	9.176		0.614		9.11	94		6020A
Chromium		142.07		270.19		36.46	-351		6020A
Copper	75 - 125	86.379		54.039		45.57	71	N	6020A
Lead	75 - 125	119.472		42.146		91.14	85		6020A
Manganese		2078.10		9968.77		91.14	-8658		6020A
Zinc	75 - 125	249.69		181.19		91.14	75		6020A

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -
POST SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz - Oregon Steel C1144-0630 **Basis:** DRY

Matrix: WATER

Sample Name: BF-3A **Lab Code:** K1509039-001A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	80 - 120	68.46		19.11		50.0	99		6020A
Cadmium	80 - 120	47.399		1.256		50.0	92		6020A
Copper	80 - 120	156.60		110.61		50.0	92		6020A
Lead	80 - 120	129.330		86.265		50.0	86		6020A

Metals

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DUPLICATES

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz - Oregon Steel C1144-0630 **Basis:** DRY

Matrix: SOIL **% Solids:** 92.2

Sample Name: BF-3D **Lab Code:** K1509039-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	20	9.33		7.06		27.7	*	6020A
Cadmium	20	0.614		0.552		10.6		6020A
Chromium	20	270.19		288.17		6.4		6020A
Copper	20	54.04		72.44		29.1	*	6020A
Lead	20	42.146		34.953		18.7		6020A
Manganese	20	9968.77		3980.72		85.9	*	6020A
Zinc	20	181.19		168.71		7.1		6020A

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

Aqueous LCS Source: **Solid LCS Source:** **ERA D080-540**

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C Limits		Solid (mg/kg) %R
Arsenic				99.6	102.9	69	131	103
Cadmium				182.0	181.8	74	126	100
Chromium				136.0	131.1	70	130	96
Copper				102.0	98.4	74	126	96
Lead				115.0	114.8	72	129	100
Manganese				323.0	322.7	75	125	100
Zinc				161.0	142.2	81	119	88

Metals

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ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz - Oregon Steel C1144-0630

Sample Name: BF-3L **Lab Code:** K1509039-001L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	19.11		19.63		3		MS
Cadmium	1.26		1.22		3		MS
Chromium	553.03		557.22		1		MS
Copper	110.61		122.22		10		MS
Lead	86.27		90.80		5		MS
Manganese	2040.45		2059.55		1		MS
Zinc	370.87		403.55		9		MS

Metals

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DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICP/ICP-MS ID #: **K-ICP-MS-04**

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		1.00	0.12	MS
Cadmium	111		0.040	0.010	MS
Chromium	52		0.40	0.06	MS
Copper	65		0.20	0.04	MS
Lead	208		0.100	0.010	MS
Manganese	55		0.10	0.04	MS
Zinc	66		1.00	0.20	MS

Comments:

Metals
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ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

ICP ID Number: **K-ICP-MS-04**

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	45.000	3000	6020A
Cadmium	45.000	3000	6020A
Chromium	45.000	3000	6020A
Copper	45.000	3000	6020A
Lead	45.000	3000	6020A
Manganese	45.000	3000	6020A
Zinc	45.000	3000	6020A

Comments:

Metals
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PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630

Project Name: Evraz - Oregon Steel C1144-0630

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1509039-001	8/21/2015	1.11	100.0
K1509039-001D	8/21/2015	1.12	100.0
K1509039-001S	8/21/2015	1.19	100.0
K1509039-002	8/21/2015	1.08	100.0
KQ1509275-13	8/21/2015	1.04	100.0
KQ1509275-14	8/21/2015	1.00	100.0

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Run Number:** 082415d

Project Name: Evraz - Oregon Steel C1144-0630

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/24/2015 **End Date:** 8/24/2015

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	18:21				X			X		X		X		X											X	
Standard 1	1.0	18:26				X			X		X		X		X											X	
ICV1	1.0	18:30				X			X		X		X		X											X	
CCV1	1.0	18:34				X			X		X		X		X											X	
ICB1	1.0	18:40				X			X		X		X		X											X	
CCB1	1.0	18:45				X			X		X		X		X											X	
LLICVS	1.0	18:49				X			X		X		X		X											X	
ZZZZZZ	1.0	18:53																									
ICS-A1	1.0	18:58				X			X		X		X		X											X	
ICS-AB1	1.0	19:02				X			X		X		X		X											X	
KQ1509275-14	5.0	19:07				X			X		X		X		X											X	
ZZZZZZ	5.0	19:11																									
ZZZZZZ	5.0	19:16																									
ZZZZZZ	5.0	19:20																									
ZZZZZZ	5.0	19:25																									
ZZZZZZ	5.0	19:29																									
KQ1509275-13	20.0	19:34				X			X		X		X		X											X	
ZZZZZZ	5.0	19:38																									
ZZZZZZ	5.0	19:43																									
CCV2	1.0	19:47				X			X		X		X		X											X	
CCB2	1.0	19:52				X			X		X		X		X											X	
ZZZZZZ	5.0	19:56																									
ZZZZZZ	5.0	20:01																									
ZZZZZZ	5.0	20:05																									
ZZZZZZ	5.0	20:09																									
ZZZZZZ	5.0	20:14																									
ZZZZZZ	5.0	20:18																									
ZZZZZZ	5.0	20:23																									
ZZZZZZ	5.0	20:27																									
ZZZZZZ	5.0	20:32																									
ZZZZZZ	5.0	20:36																									
CCV3	1.0	20:41				X			X		X		X		X											X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Run Number:** 082415d

Project Name: Evraz - Oregon Steel C1144-0630

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/24/2015 **End Date:** 8/24/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	20:45																									
CCB3	1.0	20:50				X			X		X		X		X											X	
ZZZZZZ	1.0	20:54																									
LLCCVS1	1.0	20:58				X			X		X		X		X											X	
ZZZZZZ	5.0	21:03																									
ZZZZZZ	5.0	21:07																									
ZZZZZZ	5.0	21:12																									
ZZZZZZ	1.0	21:16																									
ZZZZZZ	5.0	21:21																									
ZZZZZZ	5.0	21:25																									
ZZZZZZ	5.0	21:30																									
ZZZZZZ	5.0	21:34																									
ZZZZZZ	5.0	21:39																									
ZZZZZZ	5.0	21:43																									
CCV4	1.0	21:48				X			X		X		X		X											X	
CCB4	1.0	21:52				X			X		X		X		X											X	
ZZZZZZ	5.0	21:56																									
ZZZZZZ	5.0	22:01																									
ZZZZZZ	1.0	22:05																									
ZZZZZZ	5.0	22:10																									
ZZZZZZ	5.0	22:14																									
ZZZZZZ	5.0	22:19																									
K1509039-001	5.0	22:23				X			X		X		X		X											X	
K1509039-001D	5.0	22:28				X			X		X		X		X											X	
K1509039-001L	5.0	22:32				X			X		X		X		X											X	
K1509039-001A	5.0	22:37				X			X				X		X												
CCV5	1.0	22:41				X			X		X		X		X											X	
CCB5	1.0	22:46				X			X		X		X		X											X	
LLCCVS2	1.0	22:50				X			X		X		X		X											X	
K1509039-001S	5.0	22:55				X			X		X		X		X											X	
K1509039-002	5.0	22:59				X			X		X		X		X											X	
ZZZZZZ	1.0	23:04																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Run Number:** 082415d

Project Name: Evraz - Oregon Steel C1144-0630

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/24/2015 **End Date:** 8/24/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV6	1.0	23:08				X			X		X		X		X											X	
ZZZZZZ	1.0	23:12																									
CCB6	1.0	23:17				X			X		X		X		X											X	
LLCCVS3	1.0	23:21				X			X		X		X		X											X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509039

Project No.: C1144-0630 **Run Number:** 082515a

Project Name: Evraz - Oregon Steel C1144-0630

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/25/2015 **End Date:** 8/25/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	10:39															X										
Standard 1	1.0	10:43															X										
ICV1	1.0	10:48															X										
CCV1	1.0	10:52															X										
ICB1	1.0	10:57															X										
CCB1	1.0	11:01															X										
LLICVS1	1.0	11:05															X										
ICS-A1	1.0	11:17															X										
ICS-AB1	1.0	11:21															X										
KQ1509275-14	5.0	11:27															X										
ZZZZZZ	50.0	11:32																									
ZZZZZZ	50.0	11:36																									
ZZZZZZ	5.0	11:41																									
ZZZZZZ	50.0	11:45																									
ZZZZZZ	50.0	11:50																									
KQ1509275-13	20.0	11:54															X										
ZZZZZZ	50.0	11:59																									
ZZZZZZ	50.0	12:03																									
K1509039-001	50.0	12:08															X										
CCV2	1.0	12:12															X										
CCB2	1.0	12:17															X										
K1509039-001D	50.0	12:21															X										
K1509039-001L	5.0	12:26															X										
ZZZZZZ	50.0	12:30																									
K1509039-001S	50.0	12:35															X										
K1509039-002	50.0	12:39															X										
CCV3	1.0	12:44															X										
CCB3	1.0	12:48															X										
LLCCVS1	1.0	12:52															X										

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1509039

ICP-MS Instrument ID: K-ICP-MS-04 Start Date: 08/24/2015 End Date: 08/24/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge-K2_72	Q	Element Ge-K3_72	Q	Element In-K2_115	Q	Element Lu-K2_175	Q	Element	Q	Element	Q
Blank	Blank	1821	100		100		100		100					
Standard 1	Standard 1	1826	101		102		100		102					
ICV1	ICV	1830	97		102		97		99					
CCV1	CCV	1834	96		101		96		99					
ICB1	ICB	1840	100		102		98		101					
CCB1	CCB	1845	96		96		94		97					
LLICVS	LLICVS	1849	96		100		96		98					
ZZZZZZ	ZZZZZZ	1853												
ICS-A1	ICSA	1858	91		96		91		95					
ICS-AB1	ICSAB	1902	90		94		89		95					
KQ1509275-14	Method Blank	1907	102		103		97		100					
ZZZZZZ	ZZZZZZ	1911												
ZZZZZZ	ZZZZZZ	1916												
ZZZZZZ	ZZZZZZ	1920												
ZZZZZZ	ZZZZZZ	1925												
ZZZZZZ	ZZZZZZ	1929												
KQ1509275-13	Lab Control	1934	98		102		95		100					
ZZZZZZ	ZZZZZZ	1938												
ZZZZZZ	ZZZZZZ	1943												
CCV2	CCV	1947	96		95		93		98					
CCB2	CCB	1952	92		94		89		94					
ZZZZZZ	ZZZZZZ	1956												
ZZZZZZ	ZZZZZZ	2001												
ZZZZZZ	ZZZZZZ	2005												
ZZZZZZ	ZZZZZZ	2009												
ZZZZZZ	ZZZZZZ	2014												
ZZZZZZ	ZZZZZZ	2018												
ZZZZZZ	ZZZZZZ	2023												
ZZZZZZ	ZZZZZZ	2027												
ZZZZZZ	ZZZZZZ	2032												
ZZZZZZ	ZZZZZZ	2036												
CCV3	CCV	2041	98		95		92		95					
ZZZZZZ	ZZZZZZ	2045												
CCB3	CCB	2050	97		97		93		95					
ZZZZZZ	ZZZZZZ	2054												
LLCCVS1	LLCCVS1	2058	96		96		92		95					
ZZZZZZ	ZZZZZZ	2103												
ZZZZZZ	ZZZZZZ	2107												
ZZZZZZ	ZZZZZZ	2112												
ZZZZZZ	ZZZZZZ	2116												
ZZZZZZ	ZZZZZZ	2121												
ZZZZZZ	ZZZZZZ	2125												
ZZZZZZ	ZZZZZZ	2130												
ZZZZZZ	ZZZZZZ	2134												

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1509039

ICP-MS Instrument ID: K-ICP-MS-04 Start Date: 08/24/2015 End Date: 08/24/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge-K2_72	Q	Element Ge-K3_72	Q	Element In-K2_115	Q	Element Lu-K2_175	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2139												
ZZZZZZ	ZZZZZZ	2143												
CCV4	CCV	2148	92		94		89		92					
CCB4	CCB	2152	90		90		89		91					
ZZZZZZ	ZZZZZZ	2156												
ZZZZZZ	ZZZZZZ	2201												
ZZZZZZ	ZZZZZZ	2205												
ZZZZZZ	ZZZZZZ	2210												
ZZZZZZ	ZZZZZZ	2214												
ZZZZZZ	ZZZZZZ	2219												
K1509039-001	BF-3	2223	92		94		89		94					
K1509039-001D	BF-3D	2228	93		95		89		93					
K1509039-001L	BF-3L	2232	103		104		96		98					
K1509039-001A	BF-3A	2237	88		91		86		92					
CCV5	CCV	2241	104		102		96		96					
CCB5	CCB	2246	100		96		94		93					
LLCCVS2	LLCCVS2	2250	95		97		90		92					
K1509039-001S	BF-3S	2255	91		93		88		93					
K1509039-002	BF-7	2259	93		93		91		92					
ZZZZZZ	ZZZZZZ	2304												
CCV6	CCV	2308	101		99		94		94					
ZZZZZZ	ZZZZZZ	2312												
CCB6	CCB	2317	96		97		90		93					
LLCCVS3	LLCCVS3	2321	95		93		92		92					

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1509039

ICP-MS Instrument ID: K-ICP-MS-04 Start Date: 08/25/2015 End Date: 08/25/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li-S1_6	Q	Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
Blank	Blank	1039	100											
Standard 1	Standard 1	1043	97											
ICV1	ICV	1048	97											
CCV1	CCV	1052	95											
ICB1	ICB	1057	95											
CCB1	CCB	1101	90											
LLICVS1	LLICVS1	1105	90											
ICS-A1	ICSA	1117	88											
ICS-AB1	ICSAB	1121	86											
KQ1509275-14	Method Blank	1127	94											
ZZZZZZ	ZZZZZZ	1132												
ZZZZZZ	ZZZZZZ	1136												
ZZZZZZ	ZZZZZZ	1141												
ZZZZZZ	ZZZZZZ	1145												
ZZZZZZ	ZZZZZZ	1150												
KQ1509275-13	Lab Control	1154	109											
ZZZZZZ	ZZZZZZ	1159												
ZZZZZZ	ZZZZZZ	1203												
K1509039-001	BF-3	1208	99											
CCV2	CCV	1212	98											
CCB2	CCB	1217	94											
K1509039-001D	BF-3D	1221	102											
K1509039-001L	BF-3L	1226	96											
ZZZZZZ	ZZZZZZ	1230												
K1509039-001S	BF-3S	1235	103											
K1509039-002	BF-7	1239	105											
CCV3	CCV	1244	100											
CCB3	CCB	1248	103											
LLCCVS1	LLCCVS1	1252	103											

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BF-3	K1509039-001	08/17/2015	08/18/2015
BF-7	K1509039-002	08/17/2015	08/18/2015
BF-3MS	KWG1507856-1	08/17/2015	08/18/2015
BF-3DMS	KWG1507856-2	08/17/2015	08/18/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	08/17/2015
Sample Matrix:	Soil	**Date Received:**	08/18/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-3	**Units:**	ug/Kg
Lab Code:	K1509039-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1221	ND	U	200	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1232	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1242	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1248	**3300**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1254	**3000**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1260	**470**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1262	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1268	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	102	43-148	09/02/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	08/17/2015
Sample Matrix:	Soil	**Date Received:**	08/18/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-7	**Units:**	ug/Kg
Lab Code:	K1509039-002	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1221	ND	U	200	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1232	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1242	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1248	**3000**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1254	**2500**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1260	**380**	D	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1262	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	
Aroclor 1268	ND	U	99	21	10	08/20/15	09/02/15	KWG1507856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	80	43-148	09/02/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1507856-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1221	ND	U	9.9	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1232	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1242	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1248	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1254	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1260	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1262	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	
Aroclor 1268	ND	U	5.0	2.1	1	08/20/15	09/01/15	KWG1507856	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	83	43-148	09/01/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
BF-3	K1509039-001	102 D
BF-7	K1509039-002	80 D
Method Blank	KWG1507856-4	83
BF-3MS	KWG1507856-1	80 D
BF-3DMS	KWG1507856-2	96 D
Lab Control Sample	KWG1507856-3	70

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Extracted:**	08/20/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/02/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-3	**Units:**	ug/Kg
Lab Code:	K1509039-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507856

		BF-3MS KWG1507856-1 Matrix Spike			BF-3DMS KWG1507856-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	595	197	302 *	343	194	177 *	23-145	54 *	40
Aroclor 1260	470	709	197	123	625	194	82	24-148	13	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Extracted:**	08/20/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/01/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1507856

	Lab Control Sample KWG1507856-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	127	200	64	42-122
Aroclor 1260	167	200	83	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Extracted:**	08/20/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/01/2015
		Time Analyzed:	02:52

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1507856-4	**File ID:**	J:\GC27\DATA\083115.B\0831F024.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507856

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1507856-3	J:\GC27\DATA\083115.B\0831F023.D	09/01/15	02:28
BF-3	K1509039-001	J:\GC27\DATA\090215.B\0902F005.D	09/02/15	09:30
BF-3MS	KWG1507856-1	J:\GC27\DATA\090215.B\0902F006.D	09/02/15	09:54
BF-3DMS	KWG1507856-2	J:\GC27\DATA\090215.B\0902F007.D	09/02/15	10:18
BF-7	K1509039-002	J:\GC27\DATA\090215.B\0902F008.D	09/02/15	10:42

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Extracted:**	08/20/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/01/2015
		Time Analyzed:	02:28

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1507856-3	**File ID:**	J:\GC27\DATA\083115.B\0831F023.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507856

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1507856-4	J:\GC27\DATA\083115.B\0831F024.D	09/01/15	02:52
BF-3	K1509039-001	J:\GC27\DATA\090215.B\0902F005.D	09/02/15	09:30
BF-3MS	KWG1507856-1	J:\GC27\DATA\090215.B\0902F006.D	09/02/15	09:54
BF-3DMS	KWG1507856-2	J:\GC27\DATA\090215.B\0902F007.D	09/02/15	10:18
BF-7	K1509039-002	J:\GC27\DATA\090215.B\0902F008.D	09/02/15	10:42

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508373
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\083115.B\0831F018.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	162000	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3710	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	510	3000	3060	2	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8800	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	480	4960	4790	-3	NA	± 100	AverageRF
Aroclor 1016 {5}	500	470	5180	4870	-6	NA	± 100	AverageRF
Aroclor 1016	500	490	NA	NA	NA	-3	± 20	NA
Aroclor 1260 {1}	500	470	9850	9170	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	7960	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8010	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18400	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14300	0	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508373
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\083115_R.B\0831F018.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	49	82400	81000	-2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	420	1840	1540	-16	NA	± 100	AverageRF
Aroclor 1016 {2}	500	420	2430	2030	-17	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2380	-21	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1780	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1740	-19	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-18	± 20	NA
Aroclor 1260 {1}	500	450	2210	1990	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3620	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3480	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8290	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5450	-2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508373
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\083115.B\0831F033.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	56	158000	177000	12	NA	± 20	AverageRF
Aroclor 1016 {1}	500	540	3590	3900	9	NA	± 100	AverageRF
Aroclor 1016 {2}	500	540	3000	3250	8	NA	± 100	AverageRF
Aroclor 1016 {3}	500	480	9890	9420	-5	NA	± 100	AverageRF
Aroclor 1016 {4}	500	500	4960	5000	1	NA	± 100	AverageRF
Aroclor 1016 {5}	500	490	5180	5090	-2	NA	± 100	AverageRF
Aroclor 1016	500	510	NA	NA	NA	2	± 20	NA
Aroclor 1260 {1}	500	500	9850	9810	0	NA	± 100	AverageRF
Aroclor 1260 {2}	500	530	8110	8550	5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	530	8230	8660	5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	18800	20000	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	550	14200	15600	10	NA	± 100	AverageRF
Aroclor 1260	500	530	NA	NA	NA	5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508373
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\083115_R.B\0831F033.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86700	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	440	1840	1630	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2110	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2500	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1880	-15	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	2160	1830	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-14	± 20	NA
Aroclor 1260 {1}	500	480	2210	2100	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3870	2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3690	2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	8630	8920	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5830	4	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/02/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508411
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	166000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	510	3590	3690	3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	510	3000	3070	3	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9090	-8	NA	± 100	AverageRF
Aroclor 1016 {4}	500	480	4960	4760	-4	NA	± 100	AverageRF
Aroclor 1016 {5}	500	470	5180	4850	-6	NA	± 100	AverageRF
Aroclor 1016	500	490	NA	NA	NA	-3	± 20	NA
Aroclor 1260 {1}	500	470	9850	9290	-6	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8170	1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8260	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18700	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14600	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/02/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508411
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	49	82400	81300	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	420	1840	1540	-16	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	2010	-17	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2450	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1790	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1750	-19	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-18	± 20	NA
Aroclor 1260 {1}	500	440	2210	1950	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3640	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3490	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8400	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5590	0	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/02/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508411
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F009.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	168000	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	510	3590	3650	2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	510	3000	3030	1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8830	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	470	4960	4620	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4740	-8	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	460	9850	9110	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8130	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8210	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18800	0	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14700	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Service Request: K1509039
Date Analyzed: 09/02/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508411
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F009.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	84600	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	440	2430	2160	-11	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2530	-15	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1880	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1840	-14	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	470	2210	2090	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	3780	3760	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	3610	3640	1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8670	0	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5680	2	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508373
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0831F003.D	Continuing Calibration Verification	KWG1508373-1	8/31/2015	18:33		8/31/2015	18:33
0831F004.D	Instrument Blank	KWG1508373-2	8/31/2015	18:57		8/31/2015	18:57
0831F005.D	ZZZZZZ	ZZZZZZ	8/31/2015	19:20		8/31/2015	19:20
0831F006.D	ZZZZZZ	ZZZZZZ	8/31/2015	19:44		8/31/2015	19:44
0831F007.D	ZZZZZZ	ZZZZZZ	8/31/2015	20:08		8/31/2015	20:08
0831F008.D	ZZZZZZ	ZZZZZZ	8/31/2015	20:32		8/31/2015	20:32
0831F013.D	ZZZZZZ	ZZZZZZ	8/31/2015	22:30		8/31/2015	22:30
0831F014.D	ZZZZZZ	ZZZZZZ	8/31/2015	22:54		8/31/2015	22:54
0831F016.D	ZZZZZZ	ZZZZZZ	8/31/2015	23:41		8/31/2015	23:41
0831F017.D	ZZZZZZ	ZZZZZZ	9/1/2015	00:05		9/1/2015	00:05
0831F018.D	Continuing Calibration Verification	KWG1508373-3	9/1/2015	00:29		9/1/2015	00:29
0831F019.D	Instrument Blank	KWG1508373-4	9/1/2015	00:53		9/1/2015	00:53
0831F020.D	ZZZZZZ	ZZZZZZ	9/1/2015	01:17		9/1/2015	01:17
0831F021.D	ZZZZZZ	ZZZZZZ	9/1/2015	01:41		9/1/2015	01:41
0831F022.D	ZZZZZZ	ZZZZZZ	9/1/2015	02:04		9/1/2015	02:04
0831F023.D	Lab Control Sample	KWG1507856-3	9/1/2015	02:28		9/1/2015	02:28
0831F024.D	Method Blank	KWG1507856-4	9/1/2015	02:52		9/1/2015	02:52
0831F025.D	ZZZZZZ	ZZZZZZ	9/1/2015	03:16		9/1/2015	03:16
0831F026.D	ZZZZZZ	ZZZZZZ	9/1/2015	03:39		9/1/2015	03:39
0831F027.D	ZZZZZZ	ZZZZZZ	9/1/2015	04:03		9/1/2015	04:03
0831F028.D	ZZZZZZ	ZZZZZZ	9/1/2015	04:27		9/1/2015	04:27
0831F029.D	ZZZZZZ	ZZZZZZ	9/1/2015	04:51		9/1/2015	04:51
0831F030.D	ZZZZZZ	ZZZZZZ	9/1/2015	05:15		9/1/2015	05:15
0831F031.D	ZZZZZZ	ZZZZZZ	9/1/2015	05:39		9/1/2015	05:39
0831F032.D	ZZZZZZ	ZZZZZZ	9/1/2015	06:03		9/1/2015	06:03
0831F033.D	Continuing Calibration Verification	KWG1508373-5	9/1/2015	06:27		9/1/2015	06:27
0831F034.D	Instrument Blank	KWG1508373-6	9/1/2015	06:51		9/1/2015	06:51

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509039
Project: Evraz - Oregon Steel C1144-0630/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508411
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0902F003.D	Continuing Calibration Verification	KWG1508411-1	9/2/2015	08:42		9/2/2015	08:42
0902F004.D	Instrument Blank	KWG1508411-2	9/2/2015	09:06		9/2/2015	09:06
0902F005.D	BF-3	K1509039-001	9/2/2015	09:30		9/2/2015	09:30
0902F006.D	BF-3MS	KWG1507856-1	9/2/2015	09:54		9/2/2015	09:54
0902F007.D	BF-3DMS	KWG1507856-2	9/2/2015	10:18		9/2/2015	10:18
0902F008.D	BF-7	K1509039-002	9/2/2015	10:42		9/2/2015	10:42
0902F009.D	Continuing Calibration Verification	KWG1508411-3	9/2/2015	11:07		9/2/2015	11:07
0902F010.D	Instrument Blank	KWG1508411-4	9/2/2015	11:31		9/2/2015	11:31
0902F011.D	ZZZZZZ	ZZZZZZ	9/2/2015	11:55		9/2/2015	11:55
0902F012.D	ZZZZZZ	ZZZZZZ	9/2/2015	12:19		9/2/2015	12:19
0902F013.D	ZZZZZZ	ZZZZZZ	9/2/2015	12:42		9/2/2015	12:42
0902F014.D	ZZZZZZ	ZZZZZZ	9/2/2015	13:07		9/2/2015	13:07
0902F015.D	ZZZZZZ	ZZZZZZ	9/2/2015	13:31		9/2/2015	13:31
0902F016.D	ZZZZZZ	ZZZZZZ	9/2/2015	13:56		9/2/2015	13:56
0902F017.D	ZZZZZZ	ZZZZZZ	9/2/2015	14:20		9/2/2015	14:20
0902F018.D	ZZZZZZ	ZZZZZZ	9/2/2015	14:44		9/2/2015	14:44
0902F019.D	ZZZZZZ	ZZZZZZ	9/2/2015	15:09		9/2/2015	15:09
0902F022.D	ZZZZZZ	ZZZZZZ	9/2/2015	16:22		9/2/2015	16:22
0902F023.D	ZZZZZZ	ZZZZZZ	9/2/2015	16:46		9/2/2015	16:46
0902F024.D	Continuing Calibration Verification	KWG1508411-5	9/2/2015	17:11		9/2/2015	17:11
0902F025.D	Instrument Blank	KWG1508411-6	9/2/2015	17:35		9/2/2015	17:35

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz - Oregon Steel C1144-0630/C1144-0630
Sample Matrix: Soil

Service Request: K1509039
Date Extracted: 08/20/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1507856
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-3	K1509039-001	08/17/15	08/18/15	22.105g	4ml	92.2	
BF-7	K1509039-002	08/17/15	08/18/15	22.005g	4ml	92.6	
Method Blank	KWG1507856-4	NA	NA	40.478g	4ml	NA	
BF-3MS	KWG1507856-1	08/17/15	08/18/15	22.036g	4ml	92.2	
BF-3DMS	KWG1507856-2	08/17/15	08/18/15	22.342g	4ml	92.2	
Lab Control Sample	KWG1507856-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	08/17/2015
Sample Matrix:	Soil	**Date Received:**	08/18/2015
		Date Extracted:	08/20/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-3	**Units:**	ug/Kg
Lab Code:	K1509039-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	99	21	3300	4000	19.2	D	10	09/02/15
Aroclor 1254	99	21	3000	3100	3.3	D	10	09/02/15
Aroclor 1260	99	21	470	570	19.2	D	10	09/02/15

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509039
Project:	Evraz - Oregon Steel C1144-0630/C1144-0630	**Date Collected:**	08/17/2015
Sample Matrix:	Soil	**Date Received:**	08/18/2015
		Date Extracted:	08/20/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-7	**Units:**	ug/Kg
Lab Code:	K1509039-002	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	99	21	3000	3400	12.5	D	10	09/02/15
Aroclor 1254	99	21	2500	2600	3.9	D	10	09/02/15
Aroclor 1260	99	21	380	430	12.3	D	10	09/02/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1508951, K1509002, KQ1509164, K1509039**	**Run #:**	**458451**
Test:	**TS**	**Balance ID:**	**K-Balance-21B**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1508951-002	1.28	17.27	2.72	1.44	8.34	
	K1509002-001	1.30	11.99	11.74	10.4	87.1	
	K1509002-001DUP	1.29	12.43	12.20	10.9	87.8	<1
	K1509002-002	1.30	10.47	9.90	8.60	82.1	
	K1509002-003	1.29	11.23	11.22	9.93	88.4	
	K1509002-004	1.28	10.40	8.39	7.11	68.4	
	K1509002-004DUP	1.28	10.57	8.19	6.91	65.4	4
	K1509002-005	1.27	10.08	7.92	6.65	66.0	
	K1509002-006	1.28	11.08	11.91	10.6	95.9	
	K1509002-007	1.28	15.02	15.70	14.4	96.0	
	K1509002-008	1.28	10.85	11.21	9.93	91.5	
	K1509002-008DUP	1.28	10.96	11.35	10.1	91.9	<1
	K1509002-009	1.27	12.53	12.77	11.5	91.8	
	K1509039-001	1.29	12.50	12.82	11.5	92.2	
	K1509039-002	1.30	13.15	13.48	12.2	92.6	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**K-OVEN-07**	**105**	**105**	**8/19/2015**	**12:01**	**8/20/2015**	**08:07**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-Balance-16**	**1.00, 100.02**	**1.00, 100.01**	**8/19/2015**	**11:50**	**8/19/2015**	**12:01**
Calibration2	**K-Balance-16**	**1.00, 100.02**	**1.00, 100.02**	**8/20/2015**	**08:22**	**8/20/2015**	**08:27**

Comments: DJM Approved 8-20-15

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 243107
Team: Metals
Analyst: Keith Linn
Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A
Status: Prepped
Current Step: Digestion
Prep Date: 08/21/2015 12:30
Due Date: 08/11/2015
Hold Date: 10/31/2015

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1509275-14	Method Blank		1.00 g		100 mL			10% HN03, 5% HCL
KQ1509275-13	Lab Control Sample		1.04 g	As Received	100 mL	1 g	69665	10% HN03, 5% HCL
K1508581-001	BF-1	.03	1.27 g	As Received	100 mL			10% HN03, 5% HCL
K1508581-001: KQ1509275-03	Duplicate	.03	1.23 g	As Received	100 mL			10% HN03, 5% HCL
K1508581-001: KQ1509275-04	Matrix Spike	.03	1.22 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508581-002	BF-2	.03	1.25 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001	TP-1-080415	.01	1.28 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001: KQ1509275-05	Duplicate	.01	1.29 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001: KQ1509275-06	Matrix Spike	.01	1.20 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508597-002	TP-2-080415	.01	1.11 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-003	TP-3-080415	.01	1.65 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-004	TP-4-080415	.01	1.43 g	As Received	100 mL			10% HN03, 5% HCL
K1508690-013	SKIP-COMP-TOP	.02	3.17 g	As Received	100 mL			10% HN03, 5% HCL
K1508690-014	SKIP-COMP-NSM	.02	3.09 g	As Received	100 mL			10% HN03, 5% HCL
K1508752-001	Dried Biosolids	.02	1.09 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001	DMMU1-NSM	.04	3.21 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001: KQ1509275-07	Duplicate	.04	3.07 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001: KQ1509275-08	Matrix Spike	.04	3.13 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508937-001: KQ1509275-09	Duplicate Matrix Spike	.04	3.19 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508937-002	DMMU2-NSM	.04	3.28 g	As Received	100 mL			10% HN03, 5% HCL
K1508964-001	T42 Dike	.02	1.24 g	As Received	100 mL			10% HN03, 5% HCL
K1508964-002	T-1 Dike	.02	1.26 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-001	VMT-DU1-Comp	.07	2.97 g	As Received	100 mL			10% HN03, 5% HCL

K1508970-001: KQ1509275-10	Duplicate	.07	2.87 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-001: KQ1509275-01	Matrix Spike	.07	2.93 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508970-002	VMT-DU2-Comp	.01	2.93 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-003	VMT-DU3-Comp	.01	3.23 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001	BF-3	.02	1.11 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001: KQ1509275-11	Duplicate	.02	1.12 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001: KQ1509275-12	Matrix Spike	.02	1.19 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1509039-002	BF-7	.02	1.08 g	As Received	100 mL			10% HN03, 5% HCL

31 Total Samples consisting of 18 Client Samples, 11 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SOIL CRM	Spike	69665	7/31/2016	K-MET SS4	Spike	82092	6/23/2016
K-MET SS1	Spike	82954	6/8/2016	K-MET SS5	Spike	82880	4/28/2016
K-MET SS3	Spike	82114	1/14/2016				

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HCL	80595	Digestion	K-MET H2O2	82956
Digestion	K-MET 100ml Centrifuge Tube	81681	Digestion	K-MET HNO3	83195

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-BlockDigester-02	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-02	Thermometer ID 1107973		NONE
Digestion	K-BlockDigester-02	Correction Factor	0	deg C	Digestion	K-BlockDigester-02	Thermometer Location	7	NONE
Digestion	K-BlockDigester-02	Observed Temperature	95	deg C					

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	21-AUG-15 12:30	21-AUG-15 14:45	Keith Linn	Lance Jording	N	

Comments

Initial reflux 15 minutes 1st reflux 40 minutes Hcl reflux 15 minutes

Review

Reviewed by: _____ Date: 8/24/16

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
*** Add after HNO3	Mn	100*	1000ml	50	
and before cas cal	Ni	100*	1000ml	50	
-14	Sb***	50	1000ml	50	
when making the	V	100*	1000ml	50	
solution	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Service Request # K1509039
Calibration 082415D
QC in calibration 082415D
QC Service Request # K1509039
STARLIMS run # 459163

6020 ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control (+/-10%)	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control (+/-20%)	X		
7. Spike (+/-25%) and duplicate (<20%) in control	X		
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control (70-125%)	X		
11. Interferences checked	X		
12. Se over MRL		X	
13. LLICV run (70-130%)	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB (+/-20%) in control	X		
16. Serial dilution run	X		
17. Post spike in control (+/-20%)	X		
18. Was run stop prematurely, If so why?		X	

Comments: Needs dilutions
High RPDs Cu, As
ms fails Cu

Primary Review By: [signature] Date: 8/25/15
Secondary Review By: [signature] Date: 8/26/15

R:\icp\misc\data review forms\icpms review form

Data Review Form

Service Request #: **K1509039**
Instrument ID#: **K-ICP-MS-04**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-04 (NexION)\082415d.txt**
RUNNO: **459163**

K1508581-001DUP - Metals T
DUP RPD
6020A/Metals T - As-KED2 - RPD: 31 Limit: 20
6020A/Metals T - Cd-KED2 - RPD: 25 Limit: 20
K1508970-001MS - Metals T
MS Recovery
6020A/Metals T - Cr-KED3 - Recovery: 129 Limits: 75 - 125
K1509039-001DUP - Metals T
DUP RPD
6020A/Metals T - Cu-KED3 - RPD: 29 Limit: 20
6020A/Metals T - As-KED2 - RPD: 28 Limit: 20
K1509039-001MS - Metals T
MS Recovery
6020A/Metals T - Cu-KED3 - Recovery: 71 Limits: 75 - 125 – PDS in control.

Analytical Method 6020A

Primary Approver: 8/25/15
Secondary Approver: 8/26/15

Dataset Report

User Name: ALKLS.ALKLSXP373
Computer Name: ALKLSXP373
Dataset File Path: C:\NexIONData\DataSet\082415D\
Report Date/Time: Tuesday, August 25, 2015 09:44:39

The Dataset

Sample ID	Date and Time	Read Type	Description	Batch ID	Samp. File Name
Rinse	18:12:35 Mon 24-Aug-15	Sample			C:\NexIONData\DataSet\082415D\Rinse.001
Blank	18:17:04 Mon 24-Aug-15	Blank			C:\NexIONData\DataSet\082415D\Blank.002
Blank	18:21:32 Mon 24-Aug-15	Blank			C:\NexIONData\DataSet\082415D\Blank.003
Standard 1	18:26:00 Mon 24-Aug-15	Standard #1			C:\NexIONData\DataSet\082415D\Standard 1
ICV	18:30:28 Mon 24-Aug-15	QC Std #1			C:\NexIONData\DataSet\082415D\ICV.005
CCV	18:34:57 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.006
ICB	18:40:22 Mon 24-Aug-15	QC Std #3			C:\NexIONData\DataSet\082415D\ICB.007
CCB	18:45:04 Mon 24-Aug-15	Sample			C:\NexIONData\DataSet\082415D\CCB.008
LLICVS	18:49:33 Mon 24-Aug-15	QC Std #5			C:\NexIONData\DataSet\082415D\LLICVS.0(
~~LLICVS~~	~~18:53:54 Mon 24-Aug-15~~	~~QC Std #5~~ not needed.			C:\NexIONData\DataSet\082415D\LLICVS.01
ICSA	18:58:22 Mon 24-Aug-15	QC Std #7			C:\NexIONData\DataSet\082415D\ICSA.011
ICSAB	19:02:50 Mon 24-Aug-15	QC Std #8			C:\NexIONData\DataSet\082415D\ICSAB.01:
KQ1509275-14	19:07:20 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\KQ150927
K1508581-001	19:11:48 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001D	19:16:16 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001L	19:20:44 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001A	19:25:12 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001S	19:29:39 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
KQ1509275-13	19:34:07 Mon 24-Aug-15	Sample	20		C:\NexIONData\DataSet\082415D\KQ150927
K1508581-002	19:38:35 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508597-001	19:43:03 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
CCV	19:47:34 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.022
CCB	19:52:02 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.023
K1508597-001D	19:56:33 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001L	20:01:01 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001A	20:05:29 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001S	20:09:57 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-002	20:14:25 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-003	20:18:53 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-004	20:23:21 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508690-013	20:27:49 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508690
K1508690-014	20:32:17 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508690
K1508752-001	20:36:45 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508752
CCV	20:41:15 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.034
~~CCB~~	~~20:45:43 Mon 24-Aug-15~~	~~QC Std #4~~ Rerun			C:\NexIONData\DataSet\082415D\CCB.035
CCB	20:50:01 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.036
~~LLCCVS~~	~~20:54:29 Mon 24-Aug-15~~	~~QC Std #6~~ Rerun			C:\NexIONData\DataSet\082415D\LLCCVS.0
LLCCVS	20:58:50 Mon 24-Aug-15	QC Std #6			C:\NexIONData\DataSet\082415D\LLCCVS.0
K1508937-001	21:03:20 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001D	21:07:48 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001L	21:12:16 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001A	21:16:44 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001S	21:21:12 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001SD	21:25:40 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-002	21:30:08 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508964-001	21:34:36 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508964
K1508964-002	21:39:04 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508964
K1508970-001	21:43:31 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508970
CCV	21:48:01 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.049
CCB	21:52:29 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.050

8/25/15

K1508970-001D	21:56:59 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970-
K1508970-001L	22:01:27 Mon 24-Aug-15	Sample	25	C:\NexION\Data\DataSet\082415D\K1508970-
K1508970-001A	22:05:55 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag	C:\NexION\Data\DataSet\082415D\K1508970-
K1508970-001S	22:10:23 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970-
K1508970-002	22:14:51 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970-
K1508970-003	22:19:19 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970-
K1509039-001	22:23:47 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039-
K1509039-001D	22:28:15 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039-
K1509039-001L	22:32:43 Mon 24-Aug-15	Sample	25	C:\NexION\Data\DataSet\082415D\K1509039-
K1509039-001A	22:37:11 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag	C:\NexION\Data\DataSet\082415D\K1509039-
CCV	22:41:40 Mon 24-Aug-15	QC Std #2		C:\NexION\Data\DataSet\082415D\CCV.061
CCB	22:46:08 Mon 24-Aug-15	QC Std #4		C:\NexION\Data\DataSet\082415D\CCB.062
LLCCVS	22:50:37 Mon 24-Aug-15	QC Std #6		C:\NexION\Data\DataSet\082415D\LLCCVS.0
K1509039-001S	22:55:06 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039-
K1509039-002	22:59:34 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039-
MoSTD	23:04:02 Mon 24-Aug-15	Sample	+50ppb	C:\NexION\Data\DataSet\082415D\MoSTD.06
CCV	23:08:32 Mon 24-Aug-15	QC Std #2		C:\NexION\Data\DataSet\082415D\CCV.067
~~CCV~~	~~23:12:49 Mon 24-Aug-15~~	~~QC Std #2~~ not needed		C:\NexION\Data\DataSet\082415D\CCV.068
CCB	23:17:17 Mon 24-Aug-15	QC Std #4		C:\NexION\Data\DataSet\082415D\CCB.069
LLCCVS	23:21:46 Mon 24-Aug-15	QC Std #6		C:\NexION\Data\DataSet\082415D\LLCCVS.0

8/25/15

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\NexIONData\Wizard\SmartTune\CAS SmartTune Full FAST.swz

Optimization Status

Start Time: 8/24/2015 10:10:59 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\NexIONData\Method\CAS Tuning.mth.
MassCal File: C:\NexIONData\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.1 for Resolution
Peak height (%) for Res. Opt.: 5

Optimization Results:

Initial Try

Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.734)
Target/Obtained mass (9.0122/8.975), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (58.9332/58.925), Target/Obtained resolution (0.7/0.702)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.693)
Target/Obtained mass (139.905/139.875), Target/Obtained resolution (0.7/0.669)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.690)
Target/Obtained mass (208.98/208.975), Target/Obtained resolution (0.7/0.686)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.705)

[Passed] Optimum value(s): N/A

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, August 24, 2015 10:15:33
Sample Description:
Method File: C:\NexION Data\Method\CAS Daily Performance.mth
Dataset File: C:\NexION Data\Dataset\Default\Daily Performance Check.1739
MassCal File: C:\NexION Data\MassCal\Default.tun
Conditions File: C:\NexION Data\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
Li	7.0	36919.3	36919.265	847.255	2.3	Standard
Be	9.0	9731.6	9731.580	102.308	1.1	Standard
Mg	24.0	51913.8	51913.803	1312.107	2.5	Standard
Co	58.9	44385.8	44385.800	847.190	1.9	Standard
In	114.9	101484.8	101484.838	1249.607	1.2	Standard
Pb	208.0	70821.8	70821.829	965.474	1.4	Standard
Bi	209.0	60721.1	60721.053	683.754	1.1	Standard
U	238.1	76449.5	76449.524	1272.740	1.7	Standard
CeO	155.9	1251.0	0.017	0.001	7.3	Standard
> Ce	139.9	71804.1	71804.077	1648.689	2.3	Standard
Ce++	70.0	2184.4	0.030	0.000	1.4	Standard
Bkgd	220.0	0.0	0.000	0.000		Standard

Replicates

Repeat 1

Analyte	Mass	Meas. Intensity
Li	7	35508.074
Be	9	9858.734
Mg	24	52931.212
Co	59	44176.198
In	115	99832.279
Pb	208	69593.253
Bi	209	59622.828
U	238	74383.817
CeO	156	1125.378
Ce	140	69285.611
Ce++	70	2114.823
Bkgd	220	0.000

Repeat 2

Analyte	Mass	Meas. Intensity
Li	7	37562.652
Be	9	9799.360
Mg	24	52399.925
Co	59	44081.908
In	115	101788.007
Pb	208	70576.395
Bi	209	61336.059
U	238	77037.827
CeO	156	1150.046
Ce	140	71162.805
Ce++	70	2205.504
Bkgd	220	0.000

Repeat 3

Analyte	Mass	Meas. Intensity
Li	7	36803.346
Be	9	9639.918
Mg	24	49648.792
Co	59	43345.660
In	115	101135.397

Pb	208	70652.414
Bi	209	60596.245
U	238	76078.708
CeO	156	1242.054
Ce	140	72396.313
Ce++	70	2156.163
Bkgd	220	0.000

Repeat 4

Analyte	Mass	Meas. Intensity
Li	7	37184.999
Be	9	9740.653
Mg	24	51982.404
Co	59	44690.461
In	115	101370.387
Pb	208	71019.124
Bi	209	61231.612
U	238	77271.752
CeO	156	1358.065
Ce	140	72602.019
Ce++	70	2207.504
Bkgd	220	0.000

Repeat 5

Analyte	Mass	Meas. Intensity
Li	7	37537.252
Be	9	9619.237
Mg	24	52606.683
Co	59	45634.772
In	115	103298.122
Pb	208	72267.961
Bi	209	60818.520
U	238	77475.518
CeO	156	1379.400
Ce	140	73573.638
Ce++	70	2238.175
Bkgd	220	0.000

Current Conditions File Data

Current Value	Description
0.84	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-11.50	Deflector Voltage
1600.00	ICP RF Power
-1675.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.50	Cell Rod Offset STD [CRO]
8.00	Discriminator Threshold
-3.50	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.84	DRC Mode NEB
-6.50	DRC Mode QRO
-1.50	DRC Mode CRO
-10.00	DRC Mode Cell Entrance/Exit Voltage
3.50	Cell Gas A
0.00	Cell Gas B
280.00	Axial Field Voltage
-15.00	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-40.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

LABWORKS - Summary Report

Sample ID: Blank
Sample Date/Time: Monday, August 24, 2015 18:21:32
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\Blank.003
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	846576.409			ppb
	Be-STD1	9	22.000			ppb
	Mn-STD1	55	2624.911			ppb
	Cr-KED3	52	23.667			ppb
	Cr-KED3	53	62.667			ppb
	Co-KED3	59	8.000			ppb
	Ni-KED3	60	5.333			ppb
	Ni-KED3	62	0.667			ppb
	Cu-KED3	63	58.667			ppb
	Cu-KED3	65	25.667			ppb
	Zn-KED3	66	17.000			ppb
>	Ge-KED3	72	20192.268			ppb
>	Ge-KED2	72	64274.962			ppb
	As-KED2	75	87.000			ppb
>	Ge-KED1	72	346771.697			ppb
	Se-KED1	77	339.337			ppb
	Se-KED1	78	12.403			ppb
	Mo-KED2	95	20.000			ppb
	Mo-KED2	97	11.333			ppb
	Mo-KED2	98	35.562			ppb
	Ag-KED2	107	15.000			ppb
	Ag-KED2	109	17.333			ppb
	Cd-KED2	111	4.333			ppb
	Cd-KED2	114	8.495			ppb
>	In-KED2	115	21825.058			ppb
	Sb-KED2	121	36.667			ppb
	Sb-KED2	123	31.289			ppb
	Ba-KED2	135	9.333			ppb
	Ba-KED2	137	7.000			ppb
>	Lu-KED2	175	84607.153			ppb
	Tl-KED2	203	11.333			ppb
	Tl-KED2	205	32.333			ppb
	Pb-KED2	208	48.000			ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6					
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72					
>	Ge-KED2	72					
	As-KED2	75					
>	Ge-KED1	72					
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115					
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175					
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: Standard 1
Sample Date/Time: Monday, August 24, 2015 18:26:00
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\Standard 1.004
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	862022.520			ppb
	Be-STD1	9	137860.768	25.00000	6.3	ppb
	Mn-STD1	55	648129.044	25.00000	4.3	ppb
	Cr-KED3	52	13586.804	25.00000	8.2	ppb
	Cr-KED3	53	1844.786	25.00000	3.1	ppb
	Co-KED3	59	34005.134	25.00000	2.9	ppb
	Ni-KED3	60	10697.008	25.00000	6.9	ppb
	Ni-KED3	62	1770.776	25.00000	2.3	ppb
	Cu-KED3	63	32314.562	25.00000	2.5	ppb
	Cu-KED3	65	15650.908	25.00000	5.5	ppb
	Zn-KED3	66	2537.225	25.00000	4.0	ppb
>	Ge-KED3	72	20598.514			ppb
>	Ge-KED2	72	64875.668			ppb
	As-KED2	75	3908.868	25.00000	1.6	ppb
>	Ge-KED1	72	359206.139			ppb
	Se-KED1	77	1739.440	25.00000	8.7	ppb
	Se-KED1	78	4821.508	25.00000	4.4	ppb
	Mo-KED2	95	23039.233	25.00000	2.0	ppb
	Mo-KED2	97	14779.644	25.00000	2.8	ppb
	Mo-KED2	98	38362.427	25.00000	1.8	ppb
	Ag-KED2	107	89586.112	25.00000	1.7	ppb
	Ag-KED2	109	86667.448	25.00000	1.2	ppb
	Cd-KED2	111	9358.065	25.00000	1.6	ppb
	Cd-KED2	114	22219.234	25.00000	2.2	ppb
>	In-KED2	115	21739.044			ppb
	Sb-KED2	121	14955.826	25.00000	2.1	ppb
	Sb-KED2	123	12101.135	25.00000	1.8	ppb
	Ba-KED2	135	5638.446	25.00000	2.0	ppb
	Ba-KED2	137	10656.306	25.00000	0.3	ppb
>	Lu-KED2	175	86446.156			ppb
	Tl-KED2	203	74267.921	25.00000	2.2	ppb
	Tl-KED2	205	176818.337	25.00000	2.0	ppb
	Pb-KED2	208	216181.054	25.00000	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6					
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72					
>	Ge-KED2	72					
	As-KED2	75					
>	Ge-KED1	72					
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115					
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175					
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICV
Sample Date/Time: Monday, August 24, 2015 18:30:28
Sample Description:
Autosampler Position: 3
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICV.005
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	844081.235			ppb
	Be-STD1	9	13497.042	2.49062	1.9	ppb
	Mn-STD1	55	644416.342	25.35636	0.8	ppb
	Cr-KED3	52	4976.202	9.12175	10.1	ppb
	Cr-KED3	53	700.017	8.90935	2.0	ppb
	Co-KED3	59	33769.929	24.77894	1.7	ppb
	Ni-KED3	60	9956.138	23.25436	8.4	ppb
	Ni-KED3	62	1673.432	23.63267	10.8	ppb
	Cu-KED3	63	16101.072	12.43190	5.7	ppb
	Cu-KED3	65	7691.073	12.23750	4.9	ppb
	Zn-KED3	66	2423.206	23.86290	8.2	ppb
>	Ge-KED3	72	20640.925			ppb
>	Ge-KED2	72	62151.289			ppb
	As-KED2	75	3781.500	25.26388	2.3	ppb
>	Ge-KED1	72	351179.411			ppb
	Se-KED1	77	1788.112	26.71771	2.7	ppb
	Se-KED1	78	4995.467	26.46755	1.9	ppb
	Mo-KED2	95	22181.208	24.60849	0.7	ppb
	Mo-KED2	97	13939.467	24.11370	3.9	ppb
	Mo-KED2	98	36316.720	24.20154	2.5	ppb
	Ag-KED2	107	42313.279	12.07149	2.9	ppb
	Ag-KED2	109	41448.395	12.22428	3.2	ppb
	Cd-KED2	111	4626.749	12.63425	2.0	ppb
	Cd-KED2	114	10960.126	12.60504	2.5	ppb
>	In-KED2	115	21262.439			ppb
	Sb-KED2	121	14620.145	24.98611	0.8	ppb
	Sb-KED2	123	11619.890	24.54674	1.5	ppb
	Ba-KED2	135	21813.978	99.01875	0.8	ppb
	Ba-KED2	137	41980.595	100.75328	1.1	ppb
>	Lu-KED2	175	83617.011			ppb
	Tl-KED2	203	71721.602	24.95625	1.2	ppb
	Tl-KED2	205	170137.152	24.86604	1.1	ppb
	Pb-KED2	208	216089.720	25.83158	0.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9	100				
	Mn-STD1	55	101				
	Cr-KED3	52	91				
	Cr-KED3	53	89				
	Co-KED3	59	99				
	Ni-KED3	60	93				
	Ni-KED3	62	95				
	Cu-KED3	63	99				
	Cu-KED3	65	98				
	Zn-KED3	66	95				
>	Ge-KED3	72		102			
>	Ge-KED2	72		97			
	As-KED2	75	101				
>	Ge-KED1	72		101			
	Se-KED1	77	107				
	Se-KED1	78	106				
	Mo-KED2	95	98				
	Mo-KED2	97	96				
	Mo-KED2	98	97				
	Ag-KED2	107	97				
	Ag-KED2	109	98				
	Cd-KED2	111	101				
	Cd-KED2	114	101				
>	In-KED2	115		97			
	Sb-KED2	121	100				
	Sb-KED2	123	98				
	Ba-KED2	135	99				
	Ba-KED2	137	101				
>	Lu-KED2	175		99			
	Tl-KED2	203	100				
	Tl-KED2	205	99				
	Pb-KED2	208	103				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 18:34:57
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.006
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	920369.088			ppb
	Be-STD1	9	145614.857	24.68103	4.3	ppb
	Mn-STD1	55	696642.897	25.15875	2.5	ppb
	Cr-KED3	52	12137.155	22.73648	9.2	ppb
	Cr-KED3	53	1590.756	21.82195	10.4	ppb
	Co-KED3	59	32532.043	24.32139	3.6	ppb
	Ni-KED3	60	9832.722	23.43532	12.2	ppb
	Ni-KED3	62	1576.087	22.58661	4.2	ppb
	Cu-KED3	63	29873.957	23.50084	5.4	ppb
	Cu-KED3	65	15163.711	24.65404	7.3	ppb
	Zn-KED3	66	2286.850	22.94906	9.2	ppb
>	Ge-KED3	72	20289.784			ppb
>	Ge-KED2	72	61393.649			ppb
	As-KED2	75	3693.478	24.96045	2.4	ppb
>	Ge-KED1	72	369777.209			ppb
	Se-KED1	77	1827.451	25.73252	1.1	ppb
	Se-KED1	78	4910.791	24.72159	2.9	ppb
	Mo-KED2	95	22002.938	24.90708	1.6	ppb
	Mo-KED2	97	13924.786	24.57245	2.2	ppb
	Mo-KED2	98	36149.120	24.57920	2.6	ppb
	Ag-KED2	107	83761.865	24.38933	1.0	ppb
	Ag-KED2	109	80095.271	24.10564	1.7	ppb
	Cd-KED2	111	8932.126	24.89733	1.6	ppb
	Cd-KED2	114	20696.338	24.29318	0.4	ppb
>	In-KED2	115	20835.952			ppb
	Sb-KED2	121	14520.045	25.32053	1.8	ppb
	Sb-KED2	123	11449.842	24.67860	1.2	ppb
	Ba-KED2	135	5248.964	24.28208	0.4	ppb
	Ba-KED2	137	10078.555	24.66899	1.5	ppb
>	Lu-KED2	175	83584.144			ppb
	Tl-KED2	203	72076.033	25.08897	0.6	ppb
	Tl-KED2	205	172825.788	25.26789	0.3	ppb
	Pb-KED2	208	212410.345	25.40091	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9	99				
	Mn-STD1	55	101				
	Cr-KED3	52	91				
	Cr-KED3	53	87				
	Co-KED3	59	97				
	Ni-KED3	60	94				
	Ni-KED3	62	90				
	Cu-KED3	63	94				
	Cu-KED3	65	99				
	Zn-KED3	66	92				
>	Ge-KED3	72		100			
>	Ge-KED2	72		96			
	As-KED2	75	100				
>	Ge-KED1	72		107			
	Se-KED1	77	103				
	Se-KED1	78	99				
	Mo-KED2	95	100				
	Mo-KED2	97	98				
	Mo-KED2	98	98				
	Ag-KED2	107	98				
	Ag-KED2	109	96				
	Cd-KED2	111	100				
	Cd-KED2	114	97				
>	In-KED2	115		95			
	Sb-KED2	121	101				
	Sb-KED2	123	99				
	Ba-KED2	135	97				
	Ba-KED2	137	99				
>	Lu-KED2	175		99			
	Tl-KED2	203	100				
	Tl-KED2	205	101				
	Pb-KED2	208	102				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 2	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: ICB
Sample Date/Time: Monday, August 24, 2015 18:40:22
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICB.007
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	865989.397			ppb
	Be-STD1	9	14.000	-0.00153	48.5	ppb
	Mn-STD1	55	2158.830	-0.02025	20.7	ppb
	Cr-KED3	52	16.667	-0.01370	25.8	ppb
	Cr-KED3	53	61.333	-0.04010	593.0	ppb
	Co-KED3	59	5.333	-0.00209	48.9	ppb
	Ni-KED3	60	3.000	-0.00576	78.1	ppb
	Ni-KED3	62	1.333	0.00907	178.4	ppb
	Cu-KED3	63	24.667	-0.02731	10.6	ppb
	Cu-KED3	65	15.333	-0.01733	57.4	ppb
	Zn-KED3	66	14.000	-0.03352	67.0	ppb
>	Ge-KED3	72	20600.182			ppb
>	Ge-KED2	72	64423.962			ppb
	As-KED2	75	80.667	-0.04234	189.3	ppb
>	Ge-KED1	72	345677.414			ppb
	Se-KED1	77	349.338	0.17942	397.3	ppb
	Se-KED1	78	11.545	-0.00420	146.1	ppb
	Mo-KED2	95	12.000	-0.00840	77.0	ppb
	Mo-KED2	97	8.667	-0.00421	187.0	ppb
	Mo-KED2	98	18.594	-0.01080	26.7	ppb
	Ag-KED2	107	90.000	0.02130	35.8	ppb
	Ag-KED2	109	93.000	0.02226	18.2	ppb
	Cd-KED2	111	3.333	-0.00246	129.5	ppb
	Cd-KED2	114	5.934	-0.00273	172.6	ppb
>	In-KED2	115	21368.589			ppb
	Sb-KED2	121	49.333	0.02298	40.9	ppb
	Sb-KED2	123	37.124	0.01383	86.1	ppb
	Ba-KED2	135	4.667	-0.02026	23.8	ppb
	Ba-KED2	137	3.667	-0.00753	69.3	ppb
>	Lu-KED2	175	85535.661			ppb
	Tl-KED2	203	17.333	0.00196	397.3	ppb
	Tl-KED2	205	49.333	0.00233	351.3	ppb
	Pb-KED2	208	55.333	0.00076	877.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		102			
>	Ge-KED2	72		100			
	As-KED2	75					
>	Ge-KED1	72		100			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		98			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		101			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 18:45:04
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.008
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837979.931			ppb
	Be-STD1	9	24.000	0.00042	248.1	ppb
	Mn-STD1	55	2188.835	-0.01624	34.2	ppb
	Cr-KED3	52	24.667	0.00371	346.6	ppb
	Cr-KED3	53	48.667	-0.17523	47.4	ppb
	Co-KED3	59	7.667	0.00002	15626.1	ppb
	Ni-KED3	60	4.667	-0.00100	818.1	ppb
	Ni-KED3	62	0.667	0.00046	3792.1	ppb
	Cu-KED3	63	20.667	-0.02930	22.4	ppb
	Cu-KED3	65	11.333	-0.02272	16.7	ppb
	Zn-KED3	66	15.333	-0.01118	162.3	ppb
>	Ge-KED3	72	19445.567			ppb
>	Ge-KED2	72	61954.398			ppb
	As-KED2	75	78.000	-0.03959	229.9	ppb
>	Ge-KED1	72	350153.417			ppb
	Se-KED1	77	332.671	-0.20004	265.3	ppb
	Se-KED1	78	11.433	-0.00661	253.6	ppb
	Mo-KED2	95	6.000	-0.01473	14.7	ppb
	Mo-KED2	97	4.000	-0.01188	31.3	ppb
	Mo-KED2	98	13.708	-0.01351	36.6	ppb
	Ag-KED2	107	33.000	0.00562	40.3	ppb
	Ag-KED2	109	33.667	0.00534	16.9	ppb
	Cd-KED2	111	5.333	0.00344	318.1	ppb
	Cd-KED2	114	3.568	-0.00519	76.6	ppb
>	In-KED2	115	20435.047			ppb
	Sb-KED2	121	37.333	0.00534	269.8	ppb
	Sb-KED2	123	34.373	0.01130	64.4	ppb
	Ba-KED2	135	2.667	-0.02861	20.2	ppb
	Ba-KED2	137	3.000	-0.00886	49.6	ppb
>	Lu-KED2	175	81729.799			ppb
	Tl-KED2	203	3.333	-0.00271	30.5	ppb
	Tl-KED2	205	13.667	-0.00262	29.7	ppb
	Pb-KED2	208	20.000	-0.00323	26.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		96			
>	Ge-KED2	72		96			
	As-KED2	75					
>	Ge-KED1	72		101			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		94			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		97			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Monday, August 24, 2015 18:49:33
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\LLICVS.009
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	852953.741			ppb
	Be-STD1	9	254.002	0.04246	13.1	ppb
	Mn-STD1	55	4868.163	0.08695	1.6	ppb
	Cr-KED3	52	229.335	0.38787	5.5	ppb
	Cr-KED3	53	92.667	0.43285	24.9	ppb
	Co-KED3	59	67.000	0.04461	9.2	ppb
	Ni-KED3	60	155.001	0.35998	17.7	ppb
	Ni-KED3	62	32.000	0.45356	31.0	ppb
	Cu-KED3	63	290.670	0.18421	13.1	ppb
	Cu-KED3	65	145.334	0.19612	5.8	ppb
	Zn-KED3	66	113.000	0.98001	16.5	ppb
>	Ge-KED3	72	20096.807			ppb
>	Ge-KED2	72	61658.810			ppb
	As-KED2	75	220.002	0.93987	3.4	ppb
>	Ge-KED1	72	362244.427			ppb
	Se-KED1	77	441.340	1.56666	46.0	ppb
	Se-KED1	78	393.398	1.95562	3.7	ppb
	Mo-KED2	95	83.334	0.07243	19.0	ppb
	Mo-KED2	97	63.333	0.09246	5.1	ppb
	Mo-KED2	98	176.384	0.09683	18.9	ppb
	Ag-KED2	107	165.668	0.04390	9.8	ppb
	Ag-KED2	109	140.001	0.03705	2.4	ppb
	Cd-KED2	111	17.000	0.03570	40.8	ppb
	Cd-KED2	114	33.284	0.02950	22.8	ppb
>	In-KED2	115	20894.878			ppb
	Sb-KED2	121	83.334	0.08391	13.6	ppb
	Sb-KED2	123	68.998	0.08397	21.1	ppb
	Ba-KED2	135	35.333	0.12184	25.3	ppb
	Ba-KED2	137	43.000	0.08873	7.1	ppb
>	Lu-KED2	175	83285.517			ppb
	Tl-KED2	203	132.667	0.04242	5.4	ppb
	Tl-KED2	205	301.337	0.03953	3.1	ppb
	Pb-KED2	208	872.010	0.09908	5.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9	106				
	Mn-STD1	55	87				
	Cr-KED3	52	97				
	Cr-KED3	53	108				
	Co-KED3	59	112				
	Ni-KED3	60	90				
	Ni-KED3	62	113				
	Cu-KED3	63	92				
	Cu-KED3	65	98				
	Zn-KED3	66	98				
>	Ge-KED3	72		100			
>	Ge-KED2	72		96			
	As-KED2	75	94				
>	Ge-KED1	72		104			
	Se-KED1	77	78				
	Se-KED1	78	98				
	Mo-KED2	95	72				
	Mo-KED2	97	92				
	Mo-KED2	98	97				
	Ag-KED2	107	110				
	Ag-KED2	109	93				
	Cd-KED2	111	89				
	Cd-KED2	114	74				
>	In-KED2	115		96			
	Sb-KED2	121	84				
	Sb-KED2	123	84				
	Ba-KED2	135	122				
	Ba-KED2	137	89				
>	Lu-KED2	175		98			
	Tl-KED2	203	106				
	Tl-KED2	205	99				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Monday, August 24, 2015 18:53:54
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\LLICVS.010
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	951209.417			ppb
	Be-STD1	9	278.003	0.04161	25.8	ppb
	Mn-STD1	55	5425.030	0.08686	6.1	ppb
	Cr-KED3	52	224.335	0.37659	17.6	ppb
	Cr-KED3	53	73.334	0.15191	136.0	ppb
	Co-KED3	59	55.333	0.03544	10.4	ppb
	Ni-KED3	60	163.668	0.37703	16.1	ppb
	Ni-KED3	62	40.667	0.57211	20.7	ppb
	Cu-KED3	63	316.670	0.20347	6.0	ppb
	Cu-KED3	65	144.667	0.19362	9.8	ppb
	Zn-KED3	66	118.667	1.02531	12.7	ppb
>	Ge-KED3	72	20257.694			ppb
>	Ge-KED2	72	61079.644			ppb
	As-KED2	75	221.002	0.96237	11.8	ppb
>	Ge-KED1	72	351942.723			ppb
	Se-KED1	77	398.672	0.99368	28.1	ppb
	Se-KED1	78	383.822	1.96883	2.8	ppb
	Mo-KED2	95	91.334	0.08045	8.9	ppb
	Mo-KED2	97	55.333	0.07732	15.3	ppb
	Mo-KED2	98	157.042	0.08240	18.1	ppb
	Ag-KED2	107	159.334	0.04156	5.3	ppb
	Ag-KED2	109	155.001	0.04106	11.5	ppb
	Cd-KED2	111	20.000	0.04336	28.0	ppb
	Cd-KED2	114	42.193	0.03938	24.1	ppb
>	In-KED2	115	21136.183			ppb
	Sb-KED2	121	89.334	0.09270	13.6	ppb
	Sb-KED2	123	61.247	0.06604	38.8	ppb
	Ba-KED2	135	30.667	0.09888	20.1	ppb
	Ba-KED2	137	43.000	0.08751	6.5	ppb
>	Lu-KED2	175	84538.797			ppb
	Tl-KED2	203	121.334	0.03786	7.8	ppb
	Tl-KED2	205	319.337	0.04152	3.9	ppb
	Pb-KED2	208	882.677	0.09874	2.2	ppb

not needed.
Wrong limits on
first try thus
the rerun.
M 8/25/15

Sample ID: LLICVS
Report Date/Time: Tuesday, August 25, 2015 09:02:18
Page 1

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		112			
	Be-STD1	9	104				
	Mn-STD1	55	87				
	Cr-KED3	52	94				
	Cr-KED3	53	38				
	Co-KED3	59	89				
	Ni-KED3	60	94				
	Ni-KED3	62	143				
	Cu-KED3	63	102				
	Cu-KED3	65	97				
	Zn-KED3	66	103				
>	Ge-KED3	72		100			
>	Ge-KED2	72		95			
	As-KED2	75	96				
>	Ge-KED1	72		101			
	Se-KED1	77	50				
	Se-KED1	78	98				
	Mo-KED2	95	80				
	Mo-KED2	97	77				
	Mo-KED2	98	82				
	Ag-KED2	107	104				
	Ag-KED2	109	103				
	Cd-KED2	111	108				
	Cd-KED2	114	98				
>	In-KED2	115		97			
	Sb-KED2	121	93				
	Sb-KED2	123	66				
	Ba-KED2	135	99				
	Ba-KED2	137	88				
>	Lu-KED2	175		100			
	Tl-KED2	203	95				
	Tl-KED2	205	104				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Cr-KED3	53	Out of Control
QC Std 5	Ni-KED3	62	Out of Control
QC Std 5	Se-KED1	77	Out of Control
QC Std 5	Sb-KED2	123	Out of Control

8/25/15

Sample ID: LLICVS
Report Date/Time: Tuesday, August 25, 2015 09:02:18
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LABWORKS - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, August 24, 2015 18:58:22
Sample Description:
Autosampler Position: 5
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICSA.011
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	842248.993			ppb
	Be-STD1	9	59.333	0.00694	29.2	ppb
	Mn-STD1	55	39531.326	1.46216	4.2	ppb
	Cr-KED3	52	121.667	0.19394	7.4	ppb
	Cr-KED3	53	501.342	6.58695	1.5	ppb
	Co-KED3	59	323.670	0.24706	12.6	ppb
	Ni-KED3	60	147.667	0.35416	3.3	ppb
	Ni-KED3	62	33.333	0.49199	20.1	ppb
	Cu-KED3	63	375.338	0.26300	9.5	ppb
	Cu-KED3	65	181.334	0.26647	6.0	ppb
	Zn-KED3	66	42.333	0.27462	26.7	ppb
>	Ge-KED3	72	19360.445			ppb
>	Ge-KED2	72	58443.675			ppb
	As-KED2	75	85.667	0.04651	169.6	ppb
>	Ge-KED1	72	343607.212			ppb
	Se-KED1	77	462.674	2.33488	46.2	ppb
	Se-KED1	78	22.948	0.05886	50.9	ppb
	Mo-KED2	95	42618.863	50.71595	3.5	ppb
	Mo-KED2	97	26947.392	49.98491	1.1	ppb
	Mo-KED2	98	69471.060	49.66672	2.9	ppb
	Ag-KED2	107	85.000	0.02187	24.7	ppb
	Ag-KED2	109	104.334	0.02799	11.7	ppb
	Cd-KED2	111	34.333	0.08891	14.7	ppb
	Cd-KED2	114	83.423	0.09333	9.0	ppb
>	In-KED2	115	19832.787			ppb
	Sb-KED2	121	159.334	0.23160	7.9	ppb
	Sb-KED2	123	140.500	0.25512	23.4	ppb
	Ba-KED2	135	35.333	0.13069	23.6	ppb
	Ba-KED2	137	55.667	0.12708	15.2	ppb
>	Lu-KED2	175	80469.682			ppb
	Tl-KED2	203	13.333	0.00092	225.0	ppb
	Tl-KED2	205	36.000	0.00080	51.5	ppb
	Pb-KED2	208	661.339	0.07649	2.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		96			
>	Ge-KED2	72		91			
	As-KED2	75					
>	Ge-KED1	72		99			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95	101				
	Mo-KED2	97	100				
	Mo-KED2	98	99				
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		91			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, August 24, 2015 19:02:50
Sample Description:
Autosampler Position: 6
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICSAB.012
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	832530.766			ppb
	Be-STD1	9	68.667	0.00883	12.2	ppb
	Mn-STD1	55	1300129.172	51.99446	3.2	ppb
	Cr-KED3	52	24629.956	49.06958	9.4	ppb
	Cr-KED3	53	3647.132	54.51359	5.2	ppb
	Co-KED3	59	60576.207	48.19330	1.5	ppb
	Ni-KED3	60	18009.030	45.53925	7.2	ppb
	Ni-KED3	62	2972.976	45.43868	5.5	ppb
	Cu-KED3	63	52822.861	44.26803	2.3	ppb
	Cu-KED3	65	25441.327	43.97107	4.4	ppb
	Zn-KED3	66	2080.485	22.16059	5.1	ppb
>	Ge-KED3	72	19038.015			ppb
>	Ge-KED2	72	57853.276			ppb
	As-KED2	75	3384.401	24.26071	3.6	ppb
>	Ge-KED1	72	329003.910			ppb
	Se-KED1	77	1776.778	28.67193	1.8	ppb
	Se-KED1	78	4334.533	24.52941	3.3	ppb
	Mo-KED2	95	40715.280	49.22597	1.6	ppb
	Mo-KED2	97	26682.230	50.28677	1.7	ppb
	Mo-KED2	98	67660.465	49.12571	1.4	ppb
	Ag-KED2	107	34668.372	10.77104	1.0	ppb
	Ag-KED2	109	33752.828	10.84295	2.5	ppb
	Cd-KED2	111	7571.673	22.53087	1.6	ppb
	Cd-KED2	114	18385.302	23.03892	1.6	ppb
>	In-KED2	115	19521.053			ppb
	Sb-KED2	121	162.668	0.24226	2.5	ppb
	Sb-KED2	123	118.998	0.21015	7.6	ppb
	Ba-KED2	135	34.667	0.13061	24.3	ppb
	Ba-KED2	137	57.000	0.13272	4.1	ppb
>	Lu-KED2	175	80039.938			ppb
	Tl-KED2	203	18.667	0.00287	142.8	ppb
	Tl-KED2	205	34.000	0.00051	386.7	ppb
	Pb-KED2	208	622.005	0.07203	6.2	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98			
|	Be-STD1	9					
⌊	Mn-STD1	55	104				
⌈	Cr-KED3	52	98				
|	Cr-KED3	53	109				
|	Co-KED3	59	96				
|	Ni-KED3	60	91				
|	Ni-KED3	62	91				
|	Cu-KED3	63	89				
|	Cu-KED3	65	88				
|	Zn-KED3	66	89				
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75	97				
⌈>	Ge-KED1	72		95			
|	Se-KED1	77	115				
⌊	Se-KED1	78	98				
⌈	Mo-KED2	95	98				
|	Mo-KED2	97	101				
|	Mo-KED2	98	98				
|	Ag-KED2	107	86				
|	Ag-KED2	109	87				
|	Cd-KED2	111	90				
|	Cd-KED2	114	92				
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-14
Sample Date/Time: Monday, August 24, 2015 19:07:20
Sample Description: 5
Autosampler Position: 301
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\KQ1509275-14.013
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	861378.430			ppb
	Be-STD1	9	10.667	-0.00214	21.7	ppb
	Mn-STD1	55	2170.832	-0.01931	12.4	ppb
	Cr-KED3	52	218.335	0.35269	2.5	ppb
	Cr-KED3	53	62.000	-0.03579	367.6	ppb
	Co-KED3	59	14.000	0.00407	100.0	ppb
	Ni-KED3	60	26.000	0.04750	18.2	ppb
	Ni-KED3	62	4.667	0.05624	129.5	ppb
	Cu-KED3	63	50.000	-0.00815	74.0	ppb
	Cu-KED3	65	30.333	0.00624	126.8	ppb
	Zn-KED3	66	32.333	0.14563	22.5	ppb
>	Ge-KED3	72	20841.875			ppb
>	Ge-KED2	72	65509.629			ppb
	As-KED2	75	61.000	-0.17858	21.0	ppb
>	Ge-KED1	72	376426.194			ppb
	Se-KED1	77	327.337	-0.71172	23.0	ppb
	Se-KED1	78	12.746	-0.00322	343.8	ppb
	Mo-KED2	95	17.333	-0.00231	209.6	ppb
	Mo-KED2	97	14.667	0.00624	164.2	ppb
	Mo-KED2	98	34.082	-0.00025	2922.4	ppb
	Ag-KED2	107	36.000	0.00609	38.0	ppb
	Ag-KED2	109	45.333	0.00837	47.0	ppb
	Cd-KED2	111	5.667	0.00396	104.1	ppb
	Cd-KED2	114	3.826	-0.00504	123.2	ppb
>	In-KED2	115	21225.411			ppb
	Sb-KED2	121	9.333	-0.04510	12.3	ppb
	Sb-KED2	123	9.998	-0.04342	13.4	ppb
	Ba-KED2	135	5.333	-0.01707	29.1	ppb
	Ba-KED2	137	9.000	0.00528	8.7	ppb
>	Lu-KED2	175	84244.351			ppb
	Tl-KED2	203	4.000	-0.00251	54.9	ppb
	Tl-KED2	205	10.000	-0.00322	15.8	ppb
	Pb-KED2	208	107.333	0.00706	38.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		103			
>	Ge-KED2	72		102			
	As-KED2	75					
>	Ge-KED1	72		109			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		97			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		100			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001
Sample Date/Time: Monday, August 24, 2015 19:11:48
Sample Description: 5
Autosampler Position: 302
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001.014
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	857189.816			ppb
	Be-STD1	9	5491.722	0.99559	2.7	ppb
	~~Mn-STD1~~	~~55~~	~~241821888.755~~	9412.07540	4.4	ppb
	~~Cr-KED3~~	~~52~~	~~166590.265~~	~~321.17354~~	~~4.5~~	~~ppb~~
	Cr-KED3	53	21437.445	313.76475	2.8	ppb
	Co-KED3	59	39216.890	30.16394	3.4	ppb
	Ni-KED3	60	21916.803	53.61458	4.8	ppb
	Ni-KED3	62	3545.774	52.37152	3.8	ppb
	Cu-KED3	63	104001.109	84.28592	3.9	ppb
	~~Cu-KED3~~	~~65~~	~~52772.054~~	~~88.20492~~	~~2.5~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~31882.554~~	~~331.08438~~	~~5.7~~	~~ppb~~
>	Ge-KED3	72	19678.887			ppb
>	Ge-KED2	72	60400.753			ppb
	As-KED2	75	1861.455	12.50842	2.4	ppb
>	Ge-KED1	72	330312.034			ppb
	Se-KED1	77	433.340	2.14641	29.4	ppb
	Se-KED1	78	91.164	0.44588	13.0	ppb
	Mo-KED2	95	5629.109	6.60555	0.5	ppb
	Mo-KED2	97	3827.847	7.00526	4.6	ppb
	Mo-KED2	98	9777.575	6.89129	2.3	ppb
	Ag-KED2	107	558.011	0.16468	4.3	ppb
	Ag-KED2	109	498.009	0.15079	4.2	ppb
	Cd-KED2	111	480.008	1.37932	7.3	ppb
	Cd-KED2	114	1131.246	1.37069	2.0	ppb
>	In-KED2	115	20053.009			ppb
	Sb-KED2	121	393.339	0.65326	5.8	ppb
	Sb-KED2	123	325.041	0.66530	6.2	ppb
	Ba-KED2	135	85067.196	409.54708	0.3	ppb
	Ba-KED2	137	158058.421	402.21636	1.4	ppb
>	Lu-KED2	175	83913.740			ppb
	Tl-KED2	203	432.673	0.14616	3.0	ppb
	Tl-KED2	205	1029.037	0.14525	4.7	ppb
	Pb-KED2	208	454062.182	54.09258	0.7	ppb

OK M 8/25/15

Se 1/50 M 8/25/15

Sample ID: K1508581-001
Report Date/Time: Tuesday, August 25, 2015 09:02:29
Page 1

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		101			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		97			
⌈>	Ge-KED2	72		94			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		95			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		92			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		99			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001D
Sample Date/Time: Monday, August 24, 2015 19:16:16
Sample Description: 5
Autosampler Position: 303
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001D.015
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	884765.265			ppb
	Be-STD1	9	4798.139	0.84226	3.7	ppb
	~~Mn-STD1~~	~~55~~	~~146054995.185~~	~~5505.57778~~	~~0.8~~	~~ppb~~ m 8/25/15
	~~Cr-KED3~~	~~52~~	~~143244.800~~	~~279.76922~~	~~6.5~~	~~ppb~~
	Cr-KED3	53	19636.180	291.57958	6.3	ppb
	Co-KED3	59	39470.830	30.79288	2.9	ppb
	Ni-KED3	60	19519.017	48.36131	5.2	ppb
	Ni-KED3	62	3243.703	48.60846	7.0	ppb
	Cu-KED3	63	75794.809	62.32123	4.8	ppb
	~~Cu-KED3~~	~~65~~	~~36522.648~~	~~61.91156~~	~~1.8~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~27587.339~~	~~290.11005~~	~~6.1~~	~~ppb~~
>	Ge-KED3	72	19410.178			ppb
>	Ge-KED2	72	60862.474			ppb
	As-KED2	75	2462.546	16.62122	5.2	ppb
>	Ge-KED1	72	343954.441			ppb
	Se-KED1	77	394.672	1.09536	7.3	ppb
	Se-KED1	78	84.518	0.39218	5.5	ppb
	Mo-KED2	95	5617.105	6.63760	2.8	ppb
	Mo-KED2	97	3608.456	6.64830	2.4	ppb
	Mo-KED2	98	9169.390	6.50592	1.1	ppb
	Ag-KED2	107	594.346	0.17687	5.7	ppb
	Ag-KED2	109	552.344	0.16902	5.3	ppb
	Cd-KED2	111	359.338	1.03702	2.0	ppb
	Cd-KED2	114	826.322	1.00570	3.0	ppb
>	In-KED2	115	19914.720			ppb
	Sb-KED2	121	363.338	0.60315	11.7	ppb
	Sb-KED2	123	310.959	0.63866	4.9	ppb
	Ba-KED2	135	53343.430	258.57326	1.2	ppb
	Ba-KED2	137	98891.108	253.40853	0.8	ppb
>	Lu-KED2	175	82495.516			ppb
	Tl-KED2	203	413.339	0.14189	2.8	ppb
	Tl-KED2	205	946.031	0.13547	4.0	ppb
	Pb-KED2	208	440560.083	53.38683	1.2	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		105			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		96			
>	Ge-KED2	72		95			
	As-KED2	75					
>	Ge-KED1	72		99			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		91			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		98			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001L
Sample Date/Time: Monday, August 24, 2015 19:20:44
Sample Description: 25
Autosampler Position: 304
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001L.016
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit	
>	Li-STD1	6	875164.975			ppb	
	Be-STD1	9	1233.387	0.21583	1.6	ppb	
	~~Mn-STD1~~	~~55~~	~~49695446.771~~	~~1893.91615~~	~~2.3~~	~~ppb~~	~~n 8/25/15~~
	~~Cr-KED3~~	~~52~~	~~34716.174~~	~~62.49399~~	~~9.1~~	~~ppb~~	~~3?~~
	Cr-KED3	53	4672.099	63.08758	4.7	ppb	
	Co-KED3	59	8477.192	6.06932	2.7	ppb	
	Ni-KED3	60	4879.500	11.13403	7.4	ppb	
	Ni-KED3	62	775.355	10.71973	16.2	ppb	
	Cu-KED3	63	23369.833	17.61877	1.9	ppb	
	~~Cu-KED3~~	~~65~~	~~12082.766~~	~~18.80449~~	~~3.1~~	~~ppb~~	~~6?~~
	~~Zn-KED3~~	~~66~~	~~7224.161~~	~~69.92976~~	~~8.9~~	~~ppb~~	~~6?~~
>	Ge-KED3	72	21116.964			ppb	
>	Ge-KED2	72	64741.377			ppb	
	As-KED2	75	476.341	2.54799	5.5	ppb	2?
>	Ge-KED1	72	365539.114			ppb	
	Se-KED1	77	330.004	-0.52523	142.4	ppb	
	Se-KED1	78	30.604	0.08818	28.4	ppb	
	Mo-KED2	95	1239.387	1.36083	3.0	ppb	
	Mo-KED2	97	773.354	1.32587	7.5	ppb	
	Mo-KED2	98	2055.563	1.35428	4.1	ppb	
	Ag-KED2	107	138.667	0.03559	4.3	ppb	
	Ag-KED2	109	125.667	0.03226	7.8	ppb	
	Cd-KED2	111	119.000	0.31496	8.2	ppb	14?
	Cd-KED2	114	252.331	0.28208	7.8	ppb	
>	In-KED2	115	21170.613			ppb	
	Sb-KED2	121	104.000	0.11779	4.8	ppb	
	Sb-KED2	123	82.914	0.11164	15.2	ppb	
	Ba-KED2	135	17729.663	80.83861	2.7	ppb	
	Ba-KED2	137	33572.744	80.91374	1.1	ppb	
>	Lu-KED2	175	86140.601			ppb	
	Tl-KED2	203	90.000	0.02653	18.5	ppb	
	Tl-KED2	205	226.002	0.02740	7.3	ppb	
	Pb-KED2	208	98055.633	11.37530	1.4	ppb	5?

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		105			
>	Ge-KED2	72		101			
	As-KED2	75					
>	Ge-KED1	72		105			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		97			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		102			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001A
Sample Date/Time: Monday, August 24, 2015 19:25:12
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 305
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001A.017
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837866.997			ppb
	Be-STD1	9	276888.670	51.62680	6.4	ppb
	~~Mn-STD1~~	~~55~~	~~242650047.140~~	~~9882.10576~~	~~1.8~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~189347.362~~	~~361.77584~~	~~4.9~~	~~ppb~~
	~~Cr-KED3~~	~~53~~	~~25390.572~~	~~368.85603~~	~~4.3~~	~~ppb~~
	Co-KED3	59	100670.383	76.80684	1.6	ppb
	Ni-KED3	60	38894.564	94.30591	4.6	ppb
	Ni-KED3	62	6523.489	95.60381	2.1	ppb
	Cu-KED3	63	154531.633	124.23978	3.9	ppb
	~~Cu-KED3~~	~~65~~	~~75641.165~~	~~125.46695~~	~~3.1~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~35831.910~~	~~368.66593~~	~~4.6~~	~~ppb~~
>	Ge-KED3	72	19849.451			ppb
>	Ge-KED2	72	59501.348			ppb
	As-KED2	75	8853.076	62.60101	2.4	ppb
>	Ge-KED1	72	332220.649			ppb
	Se-KED1	77	3190.359	55.88970	5.8	ppb
	Se-KED1	78	9321.544	52.27727	2.1	ppb
	Mo-KED2	95	47037.982	55.07340	0.8	ppb
	Mo-KED2	97	29861.856	54.50649	3.2	ppb
	Mo-KED2	98	75770.474	53.29362	2.9	ppb
	Ag-KED2	107	30282.743	9.11218	2.5	ppb
	Ag-KED2	109	29592.954	9.20343	0.9	ppb
	Cd-KED2	111	16694.083	48.11370	0.9	ppb
	Cd-KED2	114	39359.909	47.77230	1.7	ppb
>	In-KED2	115	20156.578			ppb
	Sb-KED2	121	26975.450	48.69286	2.5	ppb
	Sb-KED2	123	20953.358	46.74263	1.5	ppb
	~~Ba-KED2~~	~~135~~	~~90874.804~~	~~435.31010~~	~~1.8~~	~~ppb~~
	~~Ba-KED2~~	~~137~~	~~175118.847~~	~~443.39791~~	~~1.7~~	~~ppb~~
>	Lu-KED2	175	82791.912			ppb
	Tl-KED2	203	124515.681	43.76197	1.1	ppb
	Tl-KED2	205	299305.324	44.18638	1.3	ppb
	Pb-KED2	208	813780.395	98.27500	1.5	ppb

D N/A
8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9			101		
	Mn-STD1	55			500	NA	
	Cr-KED3	52			81		
	Cr-KED3	53			110		
	Co-KED3	59			93		
	Ni-KED3	60			81		
	Ni-KED3	62			86		
	Cu-KED3	63			80		
	Cu-KED3	65			74		
	Zn-KED3	66			75	NA	
>	Ge-KED3	72		98			
>	Ge-KED2	72		93			
	As-KED2	75			100		
>	Ge-KED1	72		96			
	Se-KED1	77			107		
	Se-KED1	78			104		
	Mo-KED2	95			97		
	Mo-KED2	97			95		
	Mo-KED2	98			93		
	Ag-KED2	107			89		
	Ag-KED2	109			91		
	Cd-KED2	111			93		
	Cd-KED2	114			93		
>	In-KED2	115		92			
	Sb-KED2	121			96		
	Sb-KED2	123			92		
	Ba-KED2	135			52		
	Ba-KED2	137			82	NA	
>	Lu-KED2	175		98			
	Tl-KED2	203			87		
	Tl-KED2	205			88		
	Pb-KED2	208			88		

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001S
Sample Date/Time: Monday, August 24, 2015 19:29:39
Sample Description: 5
Autosampler Position: 306
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001S.018
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	919993.677			ppb
	Be-STD1	9	126708.894	21.50635	3.2	ppb
	~~Mn-STD1~~	~~55~~	~~157412592.215~~	~~5743.81673~~	~~5.8~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~245418.085~~	~~501.00158~~	~~5.9~~	~~ppb~~
	Cr-KED3	53	31985.157	497.01253	6.5	ppb
	Co-KED3	59	290752.813	236.99078	6.0	ppb
	Ni-KED3	60	101597.012	263.08303	2.2	ppb
	Ni-KED3	62	16285.283	255.07103	5.0	ppb
	Cu-KED3	63	210636.691	181.08204	4.6	ppb
	~~Cu-KED3~~	~~65~~	~~107329.105~~	~~190.11952~~	~~2.2~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~41675.784~~	~~458.07389~~	~~5.4~~	~~ppb~~
>	Ge-KED3	72	18580.412			ppb
>	Ge-KED2	72	58692.326			ppb
	As-KED2	75	29286.990	211.26012	0.4	ppb
>	Ge-KED1	72	325361.002			ppb
	Se-KED1	77	11538.005	224.21202	3.9	ppb
	Se-KED1	78	36412.571	208.97008	4.2	ppb
	Mo-KED2	95	176887.796	210.79350	0.5	ppb
	Mo-KED2	97	112473.041	208.94316	2.1	ppb
	Mo-KED2	98	286052.200	204.75019	1.3	ppb
	Ag-KED2	107	61192.782	18.74258	1.7	ppb
	Ag-KED2	109	59247.943	18.75559	1.4	ppb
	Cd-KED2	111	7054.742	20.68299	0.9	ppb
	Cd-KED2	114	16748.019	20.67840	2.0	ppb
>	In-KED2	115	19809.893			ppb
	Sb-KED2	121	49103.592	90.22983	1.0	ppb
	Sb-KED2	123	38160.860	86.69068	1.9	ppb
	Ba-KED2	135	137682.296	671.14074	1.8	ppb
	Ba-KED2	137	260777.086	671.83825	1.0	ppb
>	Lu-KED2	175	81958.811			ppb
	Tl-KED2	203	536257.610	190.40764	0.9	ppb
	Tl-KED2	205	1268303.198	189.15828	1.0	ppb
	Pb-KED2	208	1966783.148	239.92216	0.6	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9				103	
	Mn-STD1	55				-1849	
	Cr-KED3	52				225	
	Cr-KED3	53				229	
	Co-KED3	59				103	
	Ni-KED3	60				105	
	Ni-KED3	62				101	
	Cu-KED3	63				97	
	Cu-KED3	65				102	
	Zn-KED3	66				63	
>	Ge-KED3	72		92			
>	Ge-KED2	72		91			
	As-KED2	75				99	
>	Ge-KED1	72		94			
	Se-KED1	77				111	
	Se-KED1	78				104	
	Mo-KED2	95				102	
	Mo-KED2	97				101	
	Mo-KED2	98				99	
	Ag-KED2	107				93	
	Ag-KED2	109				93	
	Cd-KED2	111				97	
	Cd-KED2	114				97	
>	In-KED2	115		91			
	Sb-KED2	121				45	
	Sb-KED2	123				43	
	Ba-KED2	135				65	
	Ba-KED2	137				67	
>	Lu-KED2	175		97			
	Tl-KED2	203				95	
	Tl-KED2	205				95	
	Pb-KED2	208				93	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-13
Sample Date/Time: Monday, August 24, 2015 19:34:07
Sample Description: 20
Autosampler Position: 307
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\KQ1509275-13.019
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837923.638			ppb
	Be-STD1	9	217634.736	40.51694	0.4	ppb
	Mn-STD1	55	4298078.048	171.05107	3.0	ppb
	Cr-KED3	52	36951.071	68.16281	2.5	ppb
	Cr-KED3	53	4950.192	68.77756	6.0	ppb
	Co-KED3	59	92133.916	67.92880	4.3	ppb
	Ni-KED3	60	32329.220	75.69428	1.8	ppb
	Ni-KED3	62	5389.686	76.33870	7.2	ppb
	Cu-KED3	63	65135.507	50.59785	1.6	ppb
	Cu-KED3	65	31963.491	51.18134	5.8	ppb
	Zn-KED3	66	7454.612	73.95341	3.0	ppb
>	Ge-KED3	72	20540.757			ppb
>	Ge-KED2	72	62951.750			ppb
	As-KED2	75	8021.585	53.52372	1.1	ppb
>	Ge-KED1	72	346413.393			ppb
	Se-KED1	77	4888.173	85.30590	2.5	ppb
	Se-KED1	78	14797.112	79.63056	2.3	ppb
	Mo-KED2	95	61600.618	70.25921	1.4	ppb
	Mo-KED2	97	39512.576	70.26926	1.9	ppb
	Mo-KED2	98	100338.121	68.76908	2.8	ppb
	Ag-KED2	107	72768.941	21.34496	3.5	ppb
	Ag-KED2	109	70470.733	21.36622	3.0	ppb
	Cd-KED2	111	33653.598	94.53692	2.9	ppb
	Cd-KED2	114	79338.412	93.83785	1.9	ppb
>	In-KED2	115	20690.536			ppb
	Sb-KED2	121	20816.491	36.59664	2.4	ppb
	Sb-KED2	123	16597.136	36.06089	1.8	ppb
	Ba-KED2	135	33926.240	158.33859	2.7	ppb
	Ba-KED2	137	65484.418	161.54252	1.7	ppb
>	Lu-KED2	175	84937.759			ppb
	Tl-KED2	203	264191.401	90.50381	0.8	ppb
	Tl-KED2	205	625708.356	90.03374	0.4	ppb
	Pb-KED2	208	507010.654	59.67111	0.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9	102				
⌊	Mn-STD1	55	106				
⌈	Cr-KED3	52	100				
|	Cr-KED3	53	101				
|	Co-KED3	59	106				
|	Ni-KED3	60	99				
|	Ni-KED3	62	100				
|	Cu-KED3	63	99				
|	Cu-KED3	65	100				
|	Zn-KED3	66	92				
⌊>	Ge-KED3	72		102			
⌈>	Ge-KED2	72		98			
⌊	As-KED2	75	107				
⌈>	Ge-KED1	72		100			
|	Se-KED1	77	114				
⌊	Se-KED1	78	106				
⌈	Mo-KED2	95	106				
|	Mo-KED2	97	106				
|	Mo-KED2	98	103				
|	Ag-KED2	107	106				
|	Ag-KED2	109	106				
|	Cd-KED2	111	104				
|	Cd-KED2	114	103				
|>	In-KED2	115		95			
|	Sb-KED2	121	83				
|	Sb-KED2	123	82				
|	Ba-KED2	135	102				
⌊	Ba-KED2	137	104				
⌈>	Lu-KED2	175		100			
|	Tl-KED2	203	104				
|	Tl-KED2	205	103				
⌊	Pb-KED2	208	104				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-002
Sample Date/Time: Monday, August 24, 2015 19:38:35
Sample Description: 5
Autosampler Position: 308
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\K1508581-002.020
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	780418.167			ppb
	Be-STD1	9	5494.390	1.09472	3.0	ppb
	~~Mn-STD1~~	~~55~~	~~251652453.220~~	~~10755.86692~~	~~1.5~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~168621.449~~	~~364.28498~~	~~6.2~~	~~ppb~~
	Cr-KED3	53	22638.627	371.48833	3.9	ppb
	Co-KED3	59	42468.731	36.63645	4.2	ppb
	Ni-KED3	60	29603.673	81.15364	6.6	ppb
	Ni-KED3	62	4875.499	80.79151	6.1	ppb
	Cu-KED3	63	196945.617	178.98420	1.9	ppb
	~~Cu-KED3~~	~~65~~	~~99070.436~~	~~185.80266~~	~~4.2~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~479860.328~~	~~5582.33413~~	~~4.2~~	~~ppb~~
>	Ge-KED3	72	17566.466			ppb
>	Ge-KED2	72	54080.216			ppb
	As-KED2	75	2205.837	16.74857	3.0	ppb
>	Ge-KED1	72	303992.257			ppb
	Se-KED1	77	424.673	2.71206	3.1	ppb
	Se-KED1	78	82.902	0.44286	7.6	ppb
	Mo-KED2	95	8563.233	10.75022	1.9	ppb
	Mo-KED2	97	5381.014	10.52788	2.8	ppb
	Mo-KED2	98	13895.290	10.47325	2.1	ppb
	Ag-KED2	107	8150.658	2.63088	1.8	ppb
	Ag-KED2	109	7929.200	2.64474	1.3	ppb
	Cd-KED2	111	5157.598	15.95669	1.9	ppb
	Cd-KED2	114	12406.070	16.16234	1.8	ppb
>	In-KED2	115	18769.721			ppb
	Sb-KED2	121	4444.025	8.56236	2.3	ppb
	Sb-KED2	123	3566.646	8.49273	1.3	ppb
	Ba-KED2	135	58006.205	298.35563	0.8	ppb
	Ba-KED2	137	107774.686	293.03633	1.1	ppb
>	Lu-KED2	175	77870.010			ppb
	Tl-KED2	203	717.351	0.26403	6.2	ppb
	Tl-KED2	205	1667.431	0.25694	5.4	ppb
	Pb-KED2	208	10725392.944	1377.05774	0.7	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		92			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		87			
>	Ge-KED2	72		84			
	As-KED2	75					
>	Ge-KED1	72		88			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		86			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		92			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001
Sample Date/Time: Monday, August 24, 2015 19:43:03
Sample Description: 5
Autosampler Position: 309
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\K1508597-001.021
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	891256.606			ppb
	Be-STD1	9	2930.968	0.50910	3.3	ppb
	Mn-STD1	55	15654474.260	586.05284	4.4	ppb
	Cr-KED3	52	9262.005	18.29177	7.1	ppb
	Cr-KED3	53	1542.083	22.33784	1.8	ppb
	Co-KED3	59	20823.177	16.44185	1.7	ppb
	Ni-KED3	60	7473.957	18.76454	7.7	ppb
	Ni-KED3	62	1290.725	19.54256	6.1	ppb
	Cu-KED3	63	39884.396	33.14912	2.9	ppb
	Cu-KED3	65	20070.770	34.44611	5.1	ppb
	Zn-KED3	66	7057.410	75.04702	4.6	ppb
>	Ge-KED3	72	19176.871			ppb
>	Ge-KED2	72	61242.012			ppb
	As-KED2	75	2369.863	15.85334	1.8	ppb
>	Ge-KED1	72	327703.257			ppb
	Se-KED1	77	345.338	0.48788	17.9	ppb
	Se-KED1	78	53.117	0.23479	5.6	ppb
	Mo-KED2	95	869.360	1.01932	5.5	ppb
	Mo-KED2	97	522.010	0.95535	4.7	ppb
	Mo-KED2	98	1396.224	0.98039	3.6	ppb
	Ag-KED2	107	247.669	0.07208	6.9	ppb
	Ag-KED2	109	216.335	0.06377	5.5	ppb
	Cd-KED2	111	64.333	0.17785	9.2	ppb
	Cd-KED2	114	155.715	0.18377	8.3	ppb
>	In-KED2	115	19724.385			ppb
	Sb-KED2	121	259.336	0.41844	14.3	ppb
	Sb-KED2	123	199.708	0.39186	13.8	ppb
	Ba-KED2	135	31697.802	155.12864	0.3	ppb
	Ba-KED2	137	58806.149	152.13749	0.4	ppb
>	Lu-KED2	175	84156.503			ppb
	Tl-KED2	203	646.681	0.21975	3.1	ppb
	Tl-KED2	205	1490.078	0.21179	6.2	ppb
	Pb-KED2	208	60442.168	7.17570	2.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		105			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		95			
>	Ge-KED2	72		95			
	As-KED2	75					
>	Ge-KED1	72		95			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		90			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		99			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 19:47:34
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.022
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	849459.134			ppb
	Be-STD1	9	136912.570	25.15132	4.0	ppb
	Mn-STD1	55	658996.966	25.77515	2.9	ppb
	Cr-KED3	52	12356.348	24.34400	7.0	ppb
	Cr-KED3	53	1586.755	22.95804	3.2	ppb
	Co-KED3	59	32364.405	25.47268	5.3	ppb
	Ni-KED3	60	9963.808	24.92757	4.5	ppb
	Ni-KED3	62	1578.087	23.86704	2.8	ppb
	Cu-KED3	63	29696.180	24.61408	0.9	ppb
	Cu-KED3	65	15459.697	26.43515	2.6	ppb
	Zn-KED3	66	2304.853	24.33187	7.7	ppb
>	Ge-KED3	72	19232.277			ppb
>	Ge-KED2	72	61516.229			ppb
	As-KED2	75	3825.179	25.84532	4.9	ppb
>	Ge-KED1	72	341709.257			ppb
	Se-KED1	77	1717.437	26.34584	6.2	ppb
	Se-KED1	78	4686.171	25.55522	3.9	ppb
	Mo-KED2	95	22298.060	25.91457	2.2	ppb
	Mo-KED2	97	14449.306	26.18168	3.4	ppb
	Mo-KED2	98	36155.200	25.24097	3.2	ppb
	Ag-KED2	107	84773.453	25.34032	1.4	ppb
	Ag-KED2	109	79659.514	24.61370	2.7	ppb
	Cd-KED2	111	8606.925	24.62999	1.7	ppb
	Cd-KED2	114	20879.384	25.15650	0.7	ppb
>	In-KED2	115	20298.347			ppb
	Sb-KED2	121	14021.544	25.10216	1.0	ppb
	Sb-KED2	123	11195.911	24.77255	0.6	ppb
	Ba-KED2	135	5166.269	24.52963	4.2	ppb
	Ba-KED2	137	9674.608	24.30914	1.2	ppb
>	Lu-KED2	175	82512.303			ppb
	Tl-KED2	203	71473.046	25.20281	1.3	ppb
	Tl-KED2	205	169376.916	25.08657	0.9	ppb
	Pb-KED2	208	209440.242	25.37303	1.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		100			
|	Be-STD1	9	101				
⌊	Mn-STD1	55	103				
⌈	Cr-KED3	52	97				
|	Cr-KED3	53	92				
|	Co-KED3	59	102				
|	Ni-KED3	60	100				
|	Ni-KED3	62	95				
|	Cu-KED3	63	98				
|	Cu-KED3	65	106				
|	Zn-KED3	66	97				
⌊>	Ge-KED3	72		95			
⌈>	Ge-KED2	72		96			
⌊	As-KED2	75	103				
⌈>	Ge-KED1	72		99			
|	Se-KED1	77	105				
⌊	Se-KED1	78	102				
⌈	Mo-KED2	95	104				
|	Mo-KED2	97	105				
|	Mo-KED2	98	101				
|	Ag-KED2	107	101				
|	Ag-KED2	109	98				
|	Cd-KED2	111	99				
|	Cd-KED2	114	101				
|>	In-KED2	115		93			
|	Sb-KED2	121	100				
|	Sb-KED2	123	99				
|	Ba-KED2	135	98				
⌊	Ba-KED2	137	97				
⌈>	Lu-KED2	175		98			
|	Tl-KED2	203	101				
|	Tl-KED2	205	100				
⌊	Pb-KED2	208	101				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 19:52:02
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.023
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	785388.884			ppb
	Be-STD1	9	8.000	-0.00246	1.3	ppb
	Mn-STD1	55	2106.822	-0.01388	39.9	ppb
	Cr-KED3	52	22.667	0.00071	627.8	ppb
	Cr-KED3	53	42.667	-0.24870	38.8	ppb
	Co-KED3	59	7.333	-0.00018	1461.4	ppb
	Ni-KED3	60	6.000	0.00277	442.8	ppb
	Ni-KED3	62	2.000	0.02131	143.0	ppb
	Cu-KED3	63	26.000	-0.02475	34.7	ppb
	Cu-KED3	65	17.000	-0.01227	63.1	ppb
	Zn-KED3	66	20.333	0.04761	109.6	ppb
>	Ge-KED3	72	19003.642			ppb
>	Ge-KED2	72	59189.427			ppb
	As-KED2	75	71.334	-0.06228	68.1	ppb
>	Ge-KED1	72	337907.522			ppb
	Se-KED1	77	284.003	-0.85267	57.3	ppb
	Se-KED1	78	12.161	-0.00033	2532.4	ppb
	Mo-KED2	95	8.000	-0.01184	55.3	ppb
	Mo-KED2	97	6.667	-0.00637	193.8	ppb
	Mo-KED2	98	11.708	-0.01452	11.9	ppb
	Ag-KED2	107	37.333	0.00745	49.3	ppb
	Ag-KED2	109	36.333	0.00675	24.2	ppb
	Cd-KED2	111	3.667	-0.00058	1299.0	ppb
	Cd-KED2	114	7.298	-0.00036	870.5	ppb
>	In-KED2	115	19396.297			ppb
	Sb-KED2	121	48.667	0.03027	89.3	ppb
	Sb-KED2	123	42.998	0.03513	26.5	ppb
	Ba-KED2	135	8.000	-0.00154	1108.4	ppb
	Ba-KED2	137	7.667	0.00396	495.2	ppb
>	Lu-KED2	175	79639.074			ppb
	Tl-KED2	203	16.667	0.00221	136.5	ppb
	Tl-KED2	205	37.000	0.00102	229.8	ppb
	Pb-KED2	208	219.334	0.02199	107.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		93			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		92			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		97			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		94			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001D
Sample Date/Time: Monday, August 24, 2015 19:56:33
Sample Description: 5
Autosampler Position: 310
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001D.024
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	855783.071			ppb
	Be-STD1	9	2780.272	0.50281	6.8	ppb
	Mn-STD1	55	16013071.035	624.40382	3.9	ppb
	Cr-KED3	52	8985.831	17.83066	10.7	ppb
	Cr-KED3	53	1478.077	21.41785	7.5	ppb
	Co-KED3	59	21071.875	16.69634	3.2	ppb
	Ni-KED3	60	7984.565	20.12267	8.0	ppb
	Ni-KED3	62	1352.731	20.59477	6.6	ppb
	Cu-KED3	63	38639.578	32.22960	1.4	ppb
	Cu-KED3	65	19009.312	32.76352	7.3	ppb
	Zn-KED3	66	7353.894	78.54887	8.0	ppb
>	Ge-KED3	72	19125.482			ppb
>	Ge-KED2	72	59867.892			ppb
	As-KED2	75	2419.538	16.57935	1.1	ppb
>	Ge-KED1	72	323312.295			ppb
	Se-KED1	77	388.005	1.45508	21.6	ppb
	Se-KED1	78	48.450	0.21158	19.4	ppb
	Mo-KED2	95	809.356	0.94754	1.7	ppb
	Mo-KED2	97	538.677	0.98638	6.5	ppb
	Mo-KED2	98	1359.106	0.95452	3.9	ppb
	Ag-KED2	107	254.336	0.07411	1.3	ppb
	Ag-KED2	109	240.669	0.07157	12.6	ppb
	Cd-KED2	111	73.000	0.20361	20.2	ppb
	Cd-KED2	114	160.925	0.19019	23.4	ppb
>	In-KED2	115	19715.295			ppb
	Sb-KED2	121	222.002	0.34897	13.9	ppb
	Sb-KED2	123	174.290	0.33354	10.5	ppb
	Ba-KED2	135	32935.943	161.26333	2.9	ppb
	Ba-KED2	137	62765.581	162.45308	0.2	ppb
>	Lu-KED2	175	81954.078			ppb
	Tl-KED2	203	678.683	0.23707	3.9	ppb
	Tl-KED2	205	1691.767	0.24764	2.2	ppb
	Pb-KED2	208	57948.448	7.06368	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		95			
>	Ge-KED2	72		93			
	As-KED2	75					
>	Ge-KED1	72		93			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		90			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		97			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001L
Sample Date/Time: Monday, August 24, 2015 20:01:01
Sample Description: 25
Autosampler Position: 311
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001L.025
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	860208.835			ppb
	Be-STD1	9	588.012	0.10275	12.7	ppb
	Mn-STD1	55	3137346.919	121.62026	5.0	ppb
	Cr-KED3	52	1880.124	3.70826	8.8	ppb
	Cr-KED3	53	344.004	4.32884	6.5	ppb
	Co-KED3	59	4218.292	3.34850	4.3	ppb
	Ni-KED3	60	1607.424	4.05761	7.6	ppb
	Ni-KED3	62	259.336	3.96606	12.9	ppb
	Cu-KED3	63	8355.116	6.96024	3.0	ppb
	Cu-KED3	65	4222.958	7.27032	5.8	ppb
	Zn-KED3	66	1468.075	15.60631	6.8	ppb
>	Ge-KED3	72	19032.682			ppb
>	Ge-KED2	72	60324.477			ppb
	As-KED2	75	554.011	3.32534	6.0	ppb
>	Ge-KED1	72	337033.935			ppb
	Se-KED1	77	319.337	-0.22279	273.2	ppb
	Se-KED1	78	17.110	0.02826	63.4	ppb
	Mo-KED2	95	162.668	0.17112	20.3	ppb
	Mo-KED2	97	111.334	0.18653	9.0	ppb
	Mo-KED2	98	279.710	0.17599	5.6	ppb
	Ag-KED2	107	54.667	0.01248	11.1	ppb
	Ag-KED2	109	50.000	0.01076	20.4	ppb
	Cd-KED2	111	18.333	0.04195	76.7	ppb
	Cd-KED2	114	29.031	0.02613	33.0	ppb
>	In-KED2	115	19923.009			ppb
	Sb-KED2	121	84.000	0.09239	27.8	ppb
	Sb-KED2	123	57.163	0.06464	8.7	ppb
	Ba-KED2	135	6426.112	31.10202	1.5	ppb
	Ba-KED2	137	11999.705	30.72098	1.4	ppb
>	Lu-KED2	175	83005.453			ppb
	Tl-KED2	203	138.667	0.04471	3.3	ppb
	Tl-KED2	205	302.670	0.03989	3.1	ppb
	Pb-KED2	208	12385.399	1.48619	2.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		102			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		94			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		97			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		91			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		98			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001A
Sample Date/Time: Monday, August 24, 2015 20:05:29
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 312
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\K1508597-001A.026
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	847312.600			ppb
	Be-STD1	9	262159.582	48.27962	3.2	ppb
	Mn-STD1	55	16085350.358	632.92952	2.3	ppb
	Cr-KED3	52	33141.870	66.09538	9.4	ppb
	Cr-KED3	53	4725.449	70.87681	3.0	ppb
	Co-KED3	59	79006.096	62.90001	2.6	ppb
	Ni-KED3	60	24909.444	63.06208	9.4	ppb
	Ni-KED3	62	4064.579	62.17876	5.5	ppb
	Cu-KED3	63	91509.587	76.74207	4.3	ppb
	Cu-KED3	65	44170.190	76.43891	2.0	ppb
	Zn-KED3	66	11382.872	122.12533	6.0	ppb
>	Ge-KED3	72	19020.991			ppb
>	Ge-KED2	72	56736.109			ppb
	As-KED2	75	8999.504	66.75494	3.8	ppb
>	Ge-KED1	72	314041.810			ppb
	Se-KED1	77	3054.329	56.74809	5.0	ppb
	Se-KED1	78	8483.876	50.44883	6.1	ppb
	Mo-KED2	95	40191.795	49.06567	0.6	ppb
	Mo-KED2	97	25623.642	48.75169	2.3	ppb
	Mo-KED2	98	65547.454	48.07003	2.0	ppb
	Ag-KED2	107	29819.429	9.35606	1.2	ppb
	Ag-KED2	109	28995.075	9.40154	1.4	ppb
	Cd-KED2	111	16189.836	48.65551	1.2	ppb
	Cd-KED2	114	38021.560	48.11410	0.8	ppb
>	In-KED2	115	19331.012			ppb
	Sb-KED2	121	25989.632	48.90440	1.5	ppb
	Sb-KED2	123	20318.312	47.26659	0.7	ppb
	Ba-KED2	135	39869.572	199.09176	1.1	ppb
	Ba-KED2	137	75377.387	198.99585	2.2	ppb
>	Lu-KED2	175	81214.919			ppb
	Tl-KED2	203	126161.565	45.20960	3.3	ppb
	Tl-KED2	205	302242.857	45.48981	1.5	ppb
	Pb-KED2	208	435425.565	53.60419	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		100			
|	Be-STD1	9				96	
⌊	Mn-STD1	55				94	
⌈	Cr-KED3	52				96	
|	Cr-KED3	53				97	
|	Co-KED3	59				93	
|	Ni-KED3	60				89	
|	Ni-KED3	62				85	
|	Cu-KED3	63				87	
|	Cu-KED3	65				84	
|	Zn-KED3	66				94	
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		88			
⌊	As-KED2	75				102	
⌈>	Ge-KED1	72		91			
|	Se-KED1	77				113	
⌊	Se-KED1	78				100	
⌈	Mo-KED2	95				96	
|	Mo-KED2	97				96	
|	Mo-KED2	98				94	
|	Ag-KED2	107				93	
|	Ag-KED2	109				93	
|	Cd-KED2	111				97	
|	Cd-KED2	114				96	
|>	In-KED2	115		89			
|	Sb-KED2	121				97	
|	Sb-KED2	123				94	
|	Ba-KED2	135				88	
⌊	Ba-KED2	137				94	
⌈>	Lu-KED2	175		96			
|	Tl-KED2	203				90	
|	Tl-KED2	205				91	
⌊	Pb-KED2	208				93	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001S
Sample Date/Time: Monday, August 24, 2015 20:09:57
Sample Description: 5
Autosampler Position: 313
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001S.027
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	839366.618			ppb
	Be-STD1	9	108495.136	20.16315	4.6	ppb
	Mn-STD1	55	18115965.651	719.95228	5.5	ppb
	Cr-KED3	52	43927.814	91.21593	8.3	ppb
	Cr-KED3	53	5653.790	88.31880	2.5	ppb
	Co-KED3	59	257098.308	212.61652	3.9	ppb
	Ni-KED3	60	78824.966	207.71699	7.6	ppb
	Ni-KED3	62	12720.999	202.32037	2.7	ppb
	Cu-KED3	63	142039.296	123.84654	1.5	ppb
	Cu-KED3	65	72589.090	130.74172	4.9	ppb
	Zn-KED3	66	21466.135	240.06520	8.9	ppb
>	Ge-KED3	72	18300.401			ppb
>	Ge-KED2	72	56458.683			ppb
	As-KED2	75	29011.769	217.59298	2.5	ppb
>	Ge-KED1	72	303033.854			ppb
	Se-KED1	77	10858.141	226.43004	1.7	ppb
	Se-KED1	78	34718.601	214.06515	4.5	ppb
	Mo-KED2	95	164781.013	205.10355	1.0	ppb
	Mo-KED2	97	102558.195	198.96829	0.7	ppb
	Mo-KED2	98	263533.906	197.03784	0.5	ppb
	Ag-KED2	107	60549.051	19.37006	1.4	ppb
	Ag-KED2	109	57576.162	19.03508	1.6	ppb
	Cd-KED2	111	6590.520	20.18104	1.8	ppb
	Cd-KED2	114	15267.641	19.68772	1.8	ppb
>	In-KED2	115	18964.776			ppb
	Sb-KED2	121	61970.794	118.96539	0.6	ppb
	Sb-KED2	123	48313.183	114.64790	0.2	ppb
	Ba-KED2	135	116794.195	594.61553	1.6	ppb
	Ba-KED2	137	220518.607	593.37128	1.3	ppb
>	Lu-KED2	175	81585.642			ppb
	Tl-KED2	203	526537.776	187.79946	1.2	ppb
	Tl-KED2	205	1263345.052	189.26908	1.6	ppb
	Pb-KED2	208	1623115.336	198.89921	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9				98	
⌊	Mn-STD1	55				67	
⌈	Cr-KED3	52				91	
|	Cr-KED3	53				82	
|	Co-KED3	59				98	
|	Ni-KED3	60				94	
|	Ni-KED3	62				91	
|	Cu-KED3	63				91	
|	Cu-KED3	65				96	
|	Zn-KED3	66				83	
⌊>	Ge-KED3	72		91			
⌈>	Ge-KED2	72		88			
⌊	As-KED2	75				101	
⌈>	Ge-KED1	72		87			
|	Se-KED1	77				113	
⌊	Se-KED1	78				107	
⌈	Mo-KED2	95				102	
|	Mo-KED2	97				99	
|	Mo-KED2	98				98	
|	Ag-KED2	107				96	
|	Ag-KED2	109				95	
|	Cd-KED2	111				100	
|	Cd-KED2	114				98	
|>	In-KED2	115		87			
|	Sb-KED2	121				59	
|	Sb-KED2	123				57	
|	Ba-KED2	135				110	
⌊	Ba-KED2	137				110	
⌈>	Lu-KED2	175		96			
|	Tl-KED2	203				94	
|	Tl-KED2	205				95	
⌊	Pb-KED2	208				96	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-002
Sample Date/Time: Monday, August 24, 2015 20:14:25
Sample Description: 5
Autosampler Position: 314
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-002.028
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	836168.358			ppb
	Be-STD1	9	2732.928	0.50588	1.8	ppb
	Mn-STD1	55	19404027.101	773.79333	1.6	ppb
	Cr-KED3	52	6392.766	12.99467	5.6	ppb
	Cr-KED3	53	1183.382	17.51449	6.5	ppb
	Co-KED3	59	17419.951	14.18693	2.2	ppb
	Ni-KED3	60	5623.108	14.55572	8.2	ppb
	Ni-KED3	62	970.033	15.16973	7.5	ppb
	Cu-KED3	63	33268.739	28.51808	1.8	ppb
	Cu-KED3	65	16354.692	28.94858	5.2	ppb
	Zn-KED3	66	6397.769	70.13986	7.3	ppb
>	Ge-KED3	72	18598.776			ppb
>	Ge-KED2	72	58071.130			ppb
	As-KED2	75	1754.441	12.25128	2.8	ppb
>	Ge-KED1	72	320960.593			ppb
	Se-KED1	77	357.338	0.84174	112.8	ppb
	Se-KED1	78	51.895	0.23534	35.9	ppb
	Mo-KED2	95	1275.390	1.51835	4.3	ppb
	Mo-KED2	97	800.022	1.48724	5.3	ppb
	Mo-KED2	98	2067.492	1.47834	7.2	ppb
	Ag-KED2	107	286.003	0.08471	9.0	ppb
	Ag-KED2	109	275.669	0.08316	6.8	ppb
	Cd-KED2	111	56.333	0.15520	11.4	ppb
	Cd-KED2	114	126.709	0.14913	6.6	ppb
>	In-KED2	115	19575.189			ppb
	Sb-KED2	121	214.002	0.33851	13.4	ppb
	Sb-KED2	123	178.871	0.34805	13.3	ppb
	Ba-KED2	135	27610.661	136.45112	6.5	ppb
	Ba-KED2	137	52236.358	136.41484	5.6	ppb
>	Lu-KED2	175	81241.018			ppb
	Tl-KED2	203	874.694	0.30940	7.2	ppb
	Tl-KED2	205	2052.814	0.30416	5.4	ppb
	Pb-KED2	208	53703.438	6.60300	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		92			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		93			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		90			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		96			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-003
Sample Date/Time: Monday, August 24, 2015 20:18:53
Sample Description: 5
Autosampler Position: 315
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-003.029
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	859119.574			ppb
	Be-STD1	9	4342.661	0.78475	5.2	ppb
	Mn-STD1	55	30834046.556	1196.87788	1.1	ppb
	Cr-KED3	52	14604.136	30.55694	7.6	ppb
	Cr-KED3	53	2281.516	35.53644	6.8	ppb
	Co-KED3	59	28408.963	23.71764	2.8	ppb
	Ni-KED3	60	14390.584	38.20798	5.0	ppb
	Ni-KED3	62	2280.182	36.61568	6.2	ppb
	Cu-KED3	63	59418.122	52.29709	1.1	ppb
	Cu-KED3	65	30681.284	55.69050	1.9	ppb
	Zn-KED3	66	9596.227	108.17171	8.6	ppb
>	Ge-KED3	72	18128.173			ppb
>	Ge-KED2	72	57215.726			ppb
	As-KED2	75	3444.749	24.98915	1.7	ppb
>	Ge-KED1	72	311258.148			ppb
	Se-KED1	77	364.671	1.27592	29.9	ppb
	Se-KED1	78	73.682	0.37797	17.2	ppb
	Mo-KED2	95	1544.750	1.86638	4.4	ppb
	Mo-KED2	97	958.699	1.80749	2.6	ppb
	Mo-KED2	98	2565.271	1.86020	1.1	ppb
	Ag-KED2	107	483.008	0.14761	5.3	ppb
	Ag-KED2	109	434.340	0.13606	1.8	ppb
	Cd-KED2	111	185.335	0.54615	6.4	ppb
	Cd-KED2	114	397.794	0.49416	5.8	ppb
>	In-KED2	115	19316.297			ppb
	Sb-KED2	121	472.674	0.83022	3.3	ppb
	Sb-KED2	123	357.210	0.76781	7.3	ppb
	Ba-KED2	135	57297.373	286.34439	1.1	ppb
	Ba-KED2	137	107557.844	284.12798	1.2	ppb
>	Lu-KED2	175	81552.893			ppb
	Tl-KED2	203	873.360	0.30803	6.5	ppb
	Tl-KED2	205	2085.152	0.30794	3.0	ppb
	Pb-KED2	208	88467.206	10.84276	1.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		90			
>	Ge-KED2	72		89			
	As-KED2	75					
>	Ge-KED1	72		90			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		89			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		96			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-004
Sample Date/Time: Monday, August 24, 2015 20:23:21
Sample Description: 5
Autosampler Position: 316
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-004.030
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	841840.678			ppb
	Be-STD1	9	2557.563	0.47007	6.8	ppb
	Mn-STD1	55	19103206.497	756.95391	4.2	ppb
	Cr-KED3	52	12336.663	25.04862	6.5	ppb
	Cr-KED3	53	2043.480	30.76841	3.3	ppb
	Co-KED3	59	20780.797	16.85451	2.4	ppb
	Ni-KED3	60	9605.895	24.76471	3.4	ppb
	Ni-KED3	62	1620.092	25.28243	8.8	ppb
	Cu-KED3	63	44171.562	37.78350	4.8	ppb
	Cu-KED3	65	21335.608	37.61046	3.8	ppb
	Zn-KED3	66	7247.173	79.23634	6.8	ppb
>	Ge-KED3	72	18660.853			ppb
>	Ge-KED2	72	57665.157			ppb
	As-KED2	75	2293.851	16.31018	4.4	ppb
>	Ge-KED1	72	320225.600			ppb
	Se-KED1	77	398.672	1.72858	14.8	ppb
	Se-KED1	78	50.470	0.22711	4.2	ppb
	Mo-KED2	95	1023.370	1.22256	4.4	ppb
	Mo-KED2	97	610.680	1.13892	7.3	ppb
	Mo-KED2	98	1612.986	1.15530	4.7	ppb
	Ag-KED2	107	433.340	0.13116	4.8	ppb
	Ag-KED2	109	379.672	0.11755	6.1	ppb
	Cd-KED2	111	121.334	0.35155	1.8	ppb
	Cd-KED2	114	259.895	0.31795	2.5	ppb
>	In-KED2	115	19420.507			ppb
	Sb-KED2	121	246.002	0.39986	7.9	ppb
	Sb-KED2	123	211.333	0.42535	3.1	ppb
	Ba-KED2	135	34670.026	172.34555	1.6	ppb
	Ba-KED2	137	65120.428	171.12207	0.9	ppb
>	Lu-KED2	175	82200.165			ppb
	Tl-KED2	203	556.011	0.19293	6.0	ppb
	Tl-KED2	205	1331.395	0.19334	3.1	ppb
	Pb-KED2	208	66444.037	8.07574	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		92			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		92			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		97			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508690-013
Sample Date/Time: Monday, August 24, 2015 20:27:49
Sample Description: 5
Autosampler Position: 317
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508690-013.031
User Name: RRM
Batch ID:

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
Li-STD1	6	815391.134			ppb
Be-STD1	9	8766.024	1.67371	2.3	ppb
Mn-STD1	55	14845806.955	607.77761	5.2	ppb
Cr-KED3	52	28238.264	63.40336	8.3	ppb
Cr-KED3	53	4279.309	72.25917	4.1	ppb
Co-KED3	59	28740.565	25.76645	4.4	ppb
Ni-KED3	60	15628.558	44.54192	8.1	ppb
Ni-KED3	62	2608.905	44.91804	6.1	ppb
Cu-KED3	63	124988.813	118.03597	0.0	ppb
Cu-KED3	65	62417.471	121.70563	6.0	ppb
Zn-KED3	66	27607.682	333.59104	5.3	ppb
Ge-KED3	72	16904.003			ppb
Ge-KED2	72	53897.161			ppb
As-KED2	75	3547.107	27.36681	1.2	ppb
Ge-KED1	72	296425.980			ppb
Se-KED1	77	488.675	4.37105	17.2	ppb
Se-KED1	78	245.173	1.48120	10.0	ppb
Mo-KED2	95	1522.748	1.95373	1.5	ppb
Mo-KED2	97	1052.039	2.10984	6.4	ppb
Mo-KED2	98	2478.745	1.90849	6.3	ppb
Ag-KED2	107	1281.391	0.42345	3.7	ppb
Ag-KED2	109	1238.720	0.42198	0.9	ppb
Cd-KED2	111	547.344	1.73802	7.6	ppb
Cd-KED2	114	1299.067	1.73776	1.8	ppb
In-KED2	115	18194.490			ppb
Sb-KED2	121	224.002	0.38675	16.2	ppb
Sb-KED2	123	168.456	0.35156	13.4	ppb
Ba-KED2	135	22021.633	116.85905	2.9	ppb
Ba-KED2	137	41300.620	115.88676	3.1	ppb
Lu-KED2	175	80600.739			ppb
Tl-KED2	203	1610.757	0.57762	0.4	ppb
Tl-KED2	205	3800.505	0.57165	0.4	ppb
Pb-KED2	208	325146.853	40.32511	0.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		96			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		84			
>	Ge-KED2	72		84			
	As-KED2	75					
>	Ge-KED1	72		85			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		83			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508690-014
Sample Date/Time: Monday, August 24, 2015 20:32:17
Sample Description: 5
Autosampler Position: 318
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508690-014.032
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	832928.747			ppb
	Be-STD1	9	9101.567	1.70139	3.0	ppb
	Mn-STD1	55	15751473.023	631.03339	4.1	ppb
	Cr-KED3	52	29035.489	67.46070	4.9	ppb
	Cr-KED3	53	4249.966	74.36345	1.2	ppb
	Co-KED3	59	30395.399	28.18963	4.7	ppb
	Ni-KED3	60	15585.840	45.97020	6.1	ppb
	Ni-KED3	62	2492.218	44.44425	6.9	ppb
	Cu-KED3	63	132992.368	129.99635	5.0	ppb
	Cu-KED3	65	68791.085	138.78992	4.2	ppb
	Zn-KED3	66	28492.427	356.78952	7.2	ppb
>	Ge-KED3	72	16319.653			ppb
>	Ge-KED2	72	52356.776			ppb
	As-KED2	75	3505.763	27.85551	2.2	ppb
>	Ge-KED1	72	295771.592			ppb
	Se-KED1	77	479.342	4.16847	38.5	ppb
	Se-KED1	78	257.093	1.55291	9.7	ppb
	Mo-KED2	95	1339.396	1.75831	3.4	ppb
	Mo-KED2	97	837.358	1.71363	3.6	ppb
	Mo-KED2	98	2179.436	1.71610	2.5	ppb
	Ag-KED2	107	1405.403	0.47594	5.0	ppb
	Ag-KED2	109	1321.394	0.46166	5.3	ppb
	Cd-KED2	111	726.685	2.36464	3.9	ppb
	Cd-KED2	114	1731.451	2.37380	0.9	ppb
>	In-KED2	115	17773.442			ppb
	Sb-KED2	121	237.335	0.42555	20.5	ppb
	Sb-KED2	123	207.663	0.46257	17.7	ppb
	Ba-KED2	135	23432.541	127.33332	4.3	ppb
	Ba-KED2	137	44287.208	127.19190	2.5	ppb
>	Lu-KED2	175	79113.807			ppb
	Tl-KED2	203	1724.771	0.63049	0.7	ppb
	Tl-KED2	205	4131.598	0.63358	1.4	ppb
	Pb-KED2	208	366326.331	46.28970	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		81			
⌈>	Ge-KED2	72		81			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		85			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		81			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		94			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508752-001
Sample Date/Time: Monday, August 24, 2015 20:36:45
Sample Description: 5
Autosampler Position: 319
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508752-001.033
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	785146.038			ppb
	Be-STD1	9	6880.324	1.36372	3.1	ppb
	Mn-STD1	55	13482703.678	573.08647	4.8	ppb
	Cr-KED3	52	41458.326	86.60534	12.7	ppb
	Cr-KED3	53	5818.523	91.51869	7.8	ppb
	Co-KED3	59	14991.197	12.47583	3.2	ppb
	Ni-KED3	60	31846.168	84.36814	9.4	ppb
	Ni-KED3	62	5516.400	88.30907	8.7	ppb
	Cu-KED3	63	1420369.584	1245.72726	1.8	ppb
	Cu-KED3	65	687243.130	1244.59389	5.5	ppb
	Zn-KED3	66	168877.372	1898.43977	8.6	ppb
>	Ge-KED3	72	18210.952			ppb
>	Ge-KED2	72	55525.365			ppb
	As-KED2	75	962.699	6.78525	3.1	ppb
>	Ge-KED1	72	318063.373			ppb
	Se-KED1	77	1310.060	20.36778	1.9	ppb
	Se-KED1	78	2876.214	16.80225	2.8	ppb
	Mo-KED2	95	27765.631	34.55888	2.0	ppb
	Mo-KED2	97	17755.699	34.45122	2.7	ppb
	Mo-KED2	98	45440.573	33.97131	1.1	ppb
	Ag-KED2	107	21914.465	7.01085	1.2	ppb
	Ag-KED2	109	21309.883	7.04592	0.4	ppb
	Cd-KED2	111	861.693	2.62989	0.5	ppb
	Cd-KED2	114	2023.183	2.60202	1.8	ppb
>	In-KED2	115	18955.282			ppb
	Sb-KED2	121	1758.775	3.31864	1.5	ppb
	Sb-KED2	123	1404.566	3.27192	1.3	ppb
	Ba-KED2	135	95962.102	488.73548	2.8	ppb
	Ba-KED2	137	182921.517	492.44847	1.2	ppb
>	Lu-KED2	175	79865.649			ppb
	Tl-KED2	203	1116.044	0.40265	3.2	ppb
	Tl-KED2	205	2587.901	0.39136	2.1	ppb
	Pb-KED2	208	315022.309	39.42844	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		93			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		90			
⌈>	Ge-KED2	72		86			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		92			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		87			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		94			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 20:41:15
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.034
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	841790.940			ppb
	Be-STD1	9	148251.902	27.48205	4.2	ppb
	Mn-STD1	55	668267.698	26.38248	3.1	ppb
	Cr-KED3	52	12130.485	24.06197	6.4	ppb
	Cr-KED3	53	1548.084	22.51901	1.2	ppb
	Co-KED3	59	32011.943	25.36882	5.3	ppb
	Ni-KED3	60	9774.011	24.62673	5.7	ppb
	Ni-KED3	62	1546.750	23.56408	5.8	ppb
	Cu-KED3	63	29197.824	24.36542	0.8	ppb
	Cu-KED3	65	14906.448	25.66450	4.4	ppb
	Zn-KED3	66	2345.860	24.93025	6.4	ppb
>	Ge-KED3	72	19103.441			ppb
>	Ge-KED2	72	63196.576			ppb
	As-KED2	75	3805.173	24.99984	2.8	ppb
>	Ge-KED1	72	369985.674			ppb
	Se-KED1	77	1774.777	24.80085	4.1	ppb
	Se-KED1	78	5114.318	25.71424	2.3	ppb
	Mo-KED2	95	22191.891	26.06389	0.8	ppb
	Mo-KED2	97	14235.756	26.06244	0.5	ppb
	Mo-KED2	98	36349.172	25.64263	2.7	ppb
	Ag-KED2	107	81753.658	24.69422	1.8	ppb
	Ag-KED2	109	79421.935	24.79638	2.7	ppb
	Cd-KED2	111	8608.593	24.89359	0.4	ppb
	Cd-KED2	114	20482.519	24.94172	1.0	ppb
>	In-KED2	115	20084.706			ppb
	Sb-KED2	121	14001.525	25.33192	1.0	ppb
	Sb-KED2	123	11232.947	25.11916	1.7	ppb
	Ba-KED2	135	5247.631	25.18510	2.4	ppb
	Ba-KED2	137	9793.689	24.86858	0.4	ppb
>	Lu-KED2	175	80631.585			ppb
	Tl-KED2	203	69077.321	24.92810	2.7	ppb
	Tl-KED2	205	164336.183	24.90876	2.9	ppb
	Pb-KED2	208	204354.904	25.33131	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9	110				
⌊	Mn-STD1	55	106				
⌈	Cr-KED3	52	96				
|	Cr-KED3	53	90				
|	Co-KED3	59	101				
|	Ni-KED3	60	99				
|	Ni-KED3	62	94				
|	Cu-KED3	63	97				
|	Cu-KED3	65	103				
|	Zn-KED3	66	100				
⌊>	Ge-KED3	72		95			
⌈>	Ge-KED2	72		98			
⌊	As-KED2	75	100				
⌈>	Ge-KED1	72		107			
|	Se-KED1	77	99				
⌊	Se-KED1	78	103				
⌈	Mo-KED2	95	104				
|	Mo-KED2	97	104				
|	Mo-KED2	98	103				
|	Ag-KED2	107	99				
|	Ag-KED2	109	99				
|	Cd-KED2	111	100				
|	Cd-KED2	114	100				
|>	In-KED2	115		92			
|	Sb-KED2	121	101				
|	Sb-KED2	123	100				
|	Ba-KED2	135	101				
⌊	Ba-KED2	137	99				
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203	100				
|	Tl-KED2	205	100				
⌊	Pb-KED2	208	101				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 20:45:43
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\CCB.035
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	825298.010			ppb
	Be-STD1	9	23.333	0.00036	89.5	ppb
	Mn-STD1	55	5759.161	0.12967	9.3	ppb
	Cr-KED3	52	23.000	-0.00081	749.6	ppb
	Cr-KED3	53	40.000	-0.31435	104.4	ppb
	Co-KED3	59	14.000	0.00459	85.6	ppb
	Ni-KED3	60	8.000	0.00644	86.8	ppb
	Ni-KED3	62	2.000	0.01904	147.2	ppb
	Cu-KED3	63	72.667	0.01163	82.0	ppb
	Cu-KED3	65	43.000	0.02932	55.0	ppb
	Zn-KED3	66	19.667	0.02970	117.9	ppb
>	Ge-KED3	72	19961.281			ppb
>	Ge-KED2	72	62459.939			ppb
	As-KED2	75	67.333	-0.11609	78.4	ppb
>	Ge-KED1	72	352711.232			ppb
	Se-KED1	77	272.669	-1.37856	63.1	ppb
	Se-KED1	78	10.453	-0.01184	76.5	ppb
	Mo-KED2	95	6.667	-0.01370	26.8	ppb
	Mo-KED2	97	5.333	-0.00927	20.9	ppb
	Mo-KED2	98	13.488	-0.01348	3.2	ppb
	Ag-KED2	107	36.667	0.00694	59.4	ppb
	Ag-KED2	109	30.000	0.00443	72.1	ppb
	Cd-KED2	111	4.000	0.00026	2370.1	ppb
	Cd-KED2	114	4.216	-0.00434	35.0	ppb
>	In-KED2	115	19894.943			ppb
	Sb-KED2	121	69.334	0.06564	8.8	ppb
	Sb-KED2	123	57.748	0.06647	26.2	ppb
	Ba-KED2	135	2.000	-0.03167	30.7	ppb
	Ba-KED2	137	7.000	0.00157	992.6	ppb
>	Lu-KED2	175	80080.836			ppb
	Tl-KED2	203	8.667	-0.00075	52.1	ppb
	Tl-KED2	205	23.667	-0.00105	133.3	ppb
	Pb-KED2	208	38.667	-0.00084	263.0	ppb

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Sample ID: CCB
Report Date/Time: Tuesday, August 25, 2015 09:03:24
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QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		97			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		99			
>	Ge-KED2	72		97			
	As-KED2	75					
>	Ge-KED1	72		102			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		91			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Mn-STD1	55	Out of Control
QC Std 4	Sb-KED2	121	Out of Control

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LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 20:50:01
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.036
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	809424.792			ppb
	Be-STD1	9	14.000	-0.00136	97.0	ppb
	Mn-STD1	55	1594.756	-0.03768	5.3	ppb
	Cr-KED3	52	18.333	-0.00886	96.2	ppb
	Cr-KED3	53	36.667	-0.34668	70.0	ppb
	Co-KED3	59	5.333	-0.00186	46.6	ppb
	Ni-KED3	60	3.667	-0.00364	106.3	ppb
	Ni-KED3	62	1.333	0.01016	168.9	ppb
	Cu-KED3	63	30.667	-0.02122	8.6	ppb
	Cu-KED3	65	14.333	-0.01757	24.9	ppb
	Zn-KED3	66	11.000	-0.05622	84.7	ppb
>	Ge-KED3	72	19485.964			ppb
>	Ge-KED2	72	62297.901			ppb
	As-KED2	75	63.000	-0.14495	38.5	ppb
>	Ge-KED1	72	348443.689			ppb
	Se-KED1	77	278.669	-1.18503	52.0	ppb
	Se-KED1	78	9.514	-0.01645	94.3	ppb
	Mo-KED2	95	6.000	-0.01467	15.6	ppb
	Mo-KED2	97	4.667	-0.01065	39.5	ppb
	Mo-KED2	98	7.342	-0.01800	19.7	ppb
	Ag-KED2	107	10.667	-0.00099	121.5	ppb
	Ag-KED2	109	8.000	-0.00251	20.8	ppb
	Cd-KED2	111	4.333	0.00082	866.5	ppb
	Cd-KED2	114	3.022	-0.00588	34.7	ppb
>	In-KED2	115	20324.784			ppb
	Sb-KED2	121	40.000	0.01043	235.0	ppb
	Sb-KED2	123	43.082	0.03085	28.2	ppb
	Ba-KED2	135	3.333	-0.02540	57.5	ppb
	Ba-KED2	137	4.000	-0.00632	118.6	ppb
>	Lu-KED2	175	80369.443			ppb
	Tl-KED2	203	8.667	-0.00076	146.0	ppb
	Tl-KED2	205	14.333	-0.00249	40.1	ppb
	Pb-KED2	208	22.000	-0.00294	52.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		96			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		97			
>	Ge-KED2	72		97			
	As-KED2	75					
>	Ge-KED1	72		100			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		93			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Monday, August 24, 2015 20:54:29
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\LLCCVS.037
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	773062.704			ppb
	Be-STD1	9	250.669	0.04651	3.5	ppb
	Mn-STD1	55	4489.373	0.09024	3.1	ppb
	Cr-KED3	52	227.002	0.39913	2.2	ppb
	Cr-KED3	53	84.667	0.36654	63.8	ppb
	Co-KED3	59	57.000	0.03872	28.3	ppb
	Ni-KED3	60	169.001	0.40796	16.1	ppb
	Ni-KED3	62	37.333	0.55032	21.9	ppb
	Cu-KED3	63	281.336	0.18523	1.2	ppb
	Cu-KED3	65	143.001	0.20145	15.1	ppb
	Zn-KED3	66	109.667	0.98244	11.1	ppb
>	Ge-KED3	72	19393.164			ppb
>	Ge-KED2	72	64191.271			ppb
	As-KED2	75	212.668	0.83358	22.0	ppb
>	Ge-KED1	72	350613.420			ppb
	Se-KED1	77	408.673	1.20118	29.0	ppb
	Se-KED1	78	383.802	1.97279	5.3	ppb
	Mo-KED2	95	94.667	0.08848	11.1	ppb
	Mo-KED2	97	57.333	0.08483	11.1	ppb
	Mo-KED2	98	153.489	0.08409	16.5	ppb
	Ag-KED2	107	136.001	0.03648	7.6	ppb
	Ag-KED2	109	156.668	0.04342	5.1	ppb
	Cd-KED2	111	11.000	0.01992	49.0	ppb
	Cd-KED2	114	42.005	0.04111	10.5	ppb
>	In-KED2	115	20301.046			ppb
	Sb-KED2	121	81.334	0.08470	15.2	ppb
	Sb-KED2	123	73.748	0.09904	20.1	ppb
	Ba-KED2	135	28.667	0.09511	23.7	ppb
	Ba-KED2	137	37.667	0.07826	26.1	ppb
>	Lu-KED2	175	80105.302			ppb
	Tl-KED2	203	122.667	0.04070	21.3	ppb
	Tl-KED2	205	294.336	0.04024	1.4	ppb
	Pb-KED2	208	846.677	0.09997	8.0	ppb

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QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		91			
	Be-STD1	9	116				
	Mn-STD1	55	90				
	Cr-KED3	52	100				
	Cr-KED3	53	92				
	Co-KED3	59	97				
	Ni-KED3	60	102				
	Ni-KED3	62	138				
	Cu-KED3	63	93				
	Cu-KED3	65	101				
	Zn-KED3	66	98				
>	Ge-KED3	72		96			
>	Ge-KED2	72		100			
	As-KED2	75	83				
>	Ge-KED1	72		101			
	Se-KED1	77	60				
	Se-KED1	78	99				
	Mo-KED2	95	88				
	Mo-KED2	97	85				
	Mo-KED2	98	84				
	Ag-KED2	107	91				
	Ag-KED2	109	109				
	Cd-KED2	111	50				
	Cd-KED2	114	103				
>	In-KED2	115		93			
	Sb-KED2	121	85				
	Sb-KED2	123	99				
	Ba-KED2	135	95				
	Ba-KED2	137	78				
>	Lu-KED2	175		95			
	Tl-KED2	203	102				
	Tl-KED2	205	101				
	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ni-KED3	62	Out of Control
QC Std 6	Se-KED1	77	Out of Control
QC Std 6	Cd-KED2	111	Out of Control

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LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Monday, August 24, 2015 20:58:50
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\LLCCVS.038
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	819593.627			ppb
	Be-STD1	9	222.002	0.03831	12.1	ppb
	Mn-STD1	55	4349.996	0.07372	9.9	ppb
	Cr-KED3	52	205.668	0.35857	9.6	ppb
	Cr-KED3	53	54.667	-0.07907	228.2	ppb
	Co-KED3	59	60.667	0.04144	8.6	ppb
	Ni-KED3	60	166.668	0.40035	8.3	ppb
	Ni-KED3	62	24.000	0.35110	23.3	ppb
	Cu-KED3	63	262.669	0.17021	9.1	ppb
	Cu-KED3	65	144.667	0.20445	12.1	ppb
	Zn-KED3	66	102.000	0.90310	3.9	ppb
>	Ge-KED3	72	19387.491			ppb
>	Ge-KED2	72	61966.127			ppb
	As-KED2	75	206.668	0.84076	15.2	ppb
>	Ge-KED1	72	353695.553			ppb
	Se-KED1	77	363.338	0.29047	164.4	ppb
	Se-KED1	78	370.176	1.88887	5.0	ppb
	Mo-KED2	95	94.667	0.08924	20.7	ppb
	Mo-KED2	97	58.667	0.08807	17.6	ppb
	Mo-KED2	98	154.302	0.08552	27.2	ppb
	Ag-KED2	107	141.667	0.03848	12.0	ppb
	Ag-KED2	109	147.334	0.04089	6.1	ppb
	Cd-KED2	111	17.667	0.03935	59.0	ppb
	Cd-KED2	114	43.023	0.04273	14.4	ppb
>	In-KED2	115	20147.504			ppb
	Sb-KED2	121	87.334	0.09663	23.0	ppb
	Sb-KED2	123	65.956	0.08292	26.8	ppb
	Ba-KED2	135	23.333	0.07057	21.3	ppb
	Ba-KED2	137	51.667	0.11448	22.2	ppb
>	Lu-KED2	175	80005.743			ppb
	Tl-KED2	203	123.334	0.04097	9.6	ppb
	Tl-KED2	205	312.670	0.04310	3.5	ppb
	Pb-KED2	208	894.011	0.10605	1.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		97			
|	Be-STD1	9	96				
⌊	Mn-STD1	55	74				
⌈	Cr-KED3	52	90				
|	Cr-KED3	53	-20				
|	Co-KED3	59	104				
|	Ni-KED3	60	100				
|	Ni-KED3	62	88				
|	Cu-KED3	63	85				
|	Cu-KED3	65	102				
|	Zn-KED3	66	90				
⌊>	Ge-KED3	72		96			
⌈>	Ge-KED2	72		96			
⌊	As-KED2	75	84				
⌈>	Ge-KED1	72		102			
|	Se-KED1	77	15				
⌊	Se-KED1	78	94				
⌈	Mo-KED2	95	89				
|	Mo-KED2	97	88				
|	Mo-KED2	98	86				
|	Ag-KED2	107	96				
|	Ag-KED2	109	102				
|	Cd-KED2	111	98				
|	Cd-KED2	114	107				
|>	In-KED2	115		92			
|	Sb-KED2	121	97				
|	Sb-KED2	123	83				
|	Ba-KED2	135	71				
⌊	Ba-KED2	137	114				
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203	102				
|	Tl-KED2	205	108				
⌊	Pb-KED2	208	106				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Cr-KED3	53	Out of Control
QC Std 6	Se-KED1	77	Out of Control

LABWORKS - Summary Report

Sample ID: K1508937-001
Sample Date/Time: Monday, August 24, 2015 21:03:20
Sample Description: 5
Autosampler Position: 320
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\K1508937-001.039
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	911061.792			ppb
	Be-STD1	9	6424.779	1.09928	5.3	ppb
	Mn-STD1	55	38755946.142	1424.77179	8.6	ppb
	Cr-KED3	52	226909.159	544.35051	12.2	ppb
	Cr-KED3	53	30169.843	549.22009	5.4	ppb
	Co-KED3	59	91792.100	87.71151	5.2	ppb
	Ni-KED3	60	268100.028	815.54932	10.5	ppb
	Ni-KED3	62	44424.380	815.06726	5.9	ppb
	Cu-KED3	63	186817.817	188.04456	3.1	ppb
	Cu-KED3	65	91959.651	191.30546	9.1	ppb
	Zn-KED3	66	22531.096	290.52607	8.3	ppb
>	Ge-KED3	72	15880.844			ppb
>	Ge-KED2	72	50627.617			ppb
	As-KED2	75	2593.569	21.17390	0.3	ppb
>	Ge-KED1	72	277762.349			ppb
	Se-KED1	77	404.672	3.09971	6.5	ppb
	Se-KED1	78	250.963	1.63000	15.0	ppb
	Mo-KED2	95	4029.902	5.55577	0.9	ppb
	Mo-KED2	97	2644.912	5.69153	4.5	ppb
	Mo-KED2	98	6813.634	5.64303	1.0	ppb
	Ag-KED2	107	1200.717	0.42324	3.7	ppb
	Ag-KED2	109	1164.714	0.42374	5.2	ppb
	Cd-KED2	111	303.337	1.02214	3.7	ppb
	Cd-KED2	114	727.116	1.03381	1.4	ppb
>	In-KED2	115	17056.149			ppb
	Sb-KED2	121	150.001	0.25964	8.8	ppb
	Sb-KED2	123	125.872	0.26798	9.3	ppb
	Ba-KED2	135	25715.133	145.55545	0.8	ppb
	Ba-KED2	137	47783.474	142.99494	1.6	ppb
>	Lu-KED2	175	71880.097			ppb
	Tl-KED2	203	1022.703	0.41015	0.9	ppb
	Tl-KED2	205	2464.546	0.41466	4.6	ppb
	Pb-KED2	208	290897.569	40.45939	1.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		108			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		79			
>	Ge-KED2	72		79			
	As-KED2	75					
>	Ge-KED1	72		80			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		78			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		85			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-001D
Sample Date/Time: Monday, August 24, 2015 21:07:48
Sample Description: 5
Autosampler Position: 321
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508937-001D.040
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	923458.527			ppb
	Be-STD1	9	6407.437	1.07852	1.3	ppb
	Mn-STD1	55	33666447.779	1216.07541	2.8	ppb
	Cr-KED3	52	206812.109	477.85520	7.1	ppb
	Cr-KED3	53	27835.786	488.69741	2.9	ppb
	Co-KED3	59	90337.681	83.19904	1.4	ppb
	Ni-KED3	60	250644.467	735.56128	10.0	ppb
	Ni-KED3	62	39541.988	700.57454	5.0	ppb
	Cu-KED3	63	161036.073	156.31812	1.8	ppb
	Cu-KED3	65	81711.182	163.79500	4.6	ppb
	Zn-KED3	66	19755.988	245.72941	6.7	ppb
>	Ge-KED3	72	16439.800			ppb
>	Ge-KED2	72	50426.539			ppb
	As-KED2	75	2435.874	19.93830	2.4	ppb
>	Ge-KED1	72	277543.600			ppb
	Se-KED1	77	374.005	2.38690	8.6	ppb
	Se-KED1	78	209.802	1.34488	7.5	ppb
	Mo-KED2	95	3740.490	5.12868	2.0	ppb
	Mo-KED2	97	2424.206	5.18321	1.2	ppb
	Mo-KED2	98	6169.489	5.07939	5.1	ppb
	Ag-KED2	107	1029.370	0.36013	2.9	ppb
	Ag-KED2	109	1047.372	0.37810	1.3	ppb
	Cd-KED2	111	275.003	0.92035	3.2	ppb
	Cd-KED2	114	654.977	0.92527	7.3	ppb
>	In-KED2	115	17147.230			ppb
	Sb-KED2	121	140.667	0.23754	15.8	ppb
	Sb-KED2	123	115.287	0.23831	14.0	ppb
	Ba-KED2	135	24325.361	136.92913	0.9	ppb
	Ba-KED2	137	45509.713	135.42690	0.7	ppb
>	Lu-KED2	175	72594.358			ppb
	Tl-KED2	203	1024.037	0.40647	2.3	ppb
	Tl-KED2	205	2351.527	0.39140	3.3	ppb
	Pb-KED2	208	253071.723	34.85267	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		81			
>	Ge-KED2	72		78			
	As-KED2	75					
>	Ge-KED1	72		80			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		79			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		86			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-001L
Sample Date/Time: Monday, August 24, 2015 21:12:16
Sample Description: 25
Autosampler Position: 322
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508937-001L.041
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit	
>	Li-STD1	6	899657.397			ppb	
	Be-STD1	9	1568.086	0.26780	3.2	ppb	
	Mn-STD1	55	8208167.264	304.30942	3.6	ppb	??
	Cr-KED3	52	46723.658	98.57671	2.6	ppb	
	Cr-KED3	53	6377.424	101.72163	1.8	ppb	
	Co-KED3	59	20758.082	17.50360	4.1	ppb	??
	Ni-KED3	60	58446.726	156.51653	2.9	ppb	
	Ni-KED3	62	9528.517	154.27061	5.2	ppb	
	Cu-KED3	63	45634.799	40.52719	1.6	ppb	??
	Cu-KED3	65	22427.274	41.08389	4.5	ppb	
	Zn-KED3	66	5130.588	58.15905	2.4	ppb	<1?
>	Ge-KED3	72	17960.951			ppb	
>	Ge-KED2	72	55626.772			ppb	
	As-KED2	75	647.015	4.36112	5.5	ppb	3?
>	Ge-KED1	72	310805.410			ppb	
	Se-KED1	77	316.670	0.24002	144.2	ppb	
	Se-KED1	78	56.533	0.27096	11.9	ppb	
	Mo-KED2	95	883.361	1.10778	10.4	ppb	
	Mo-KED2	97	551.344	1.07898	7.7	ppb	
	Mo-KED2	98	1453.270	1.09115	5.2	ppb	
	Ag-KED2	107	295.336	0.09275	1.7	ppb	
	Ag-KED2	109	274.669	0.08811	6.1	ppb	??
	Cd-KED2	111	69.667	0.20765	9.0	ppb	
	Cd-KED2	114	171.704	0.21784	5.6	ppb	
>	In-KED2	115	18491.052			ppb	
	Sb-KED2	121	50.000	0.03718	22.1	ppb	
	Sb-KED2	123	37.622	0.02707	25.6	ppb	
	Ba-KED2	135	5459.710	28.47244	2.5	ppb	
	Ba-KED2	137	10250.009	28.28036	2.0	ppb	
>	Lu-KED2	175	78011.446			ppb	
	Tl-KED2	203	240.002	0.08556	14.4	ppb	
	Tl-KED2	205	569.678	0.08463	5.8	ppb	
	Pb-KED2	208	65370.515	8.37239	1.4	ppb	3?

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		106			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		89			
>	Ge-KED2	72		87			
	As-KED2	75					
>	Ge-KED1	72		90			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		85			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		92			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-001A
Sample Date/Time: Monday, August 24, 2015 21:16:44
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 323
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508937-001A.042
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	880536.978			ppb
	Be-STD1	9	226582.335	40.14986	3.2	ppb
	~~Mn-STD1~~	~~55~~	~~38794465.664~~	~~1469.84453~~	~~3.9~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~233503.011~~	~~555.12591~~	~~8.3~~	~~ppb~~
	~~Cr-KED3~~	~~53~~	~~32940.700~~	~~595.69612~~	~~7.7~~	~~ppb~~
	Co-KED3	59	141643.755	134.28576	0.4	ppb
	~~Ni-KED3~~	~~60~~	~~209924.918~~	~~814.39237~~	~~8.4~~	~~ppb~~
	~~Ni-KED3~~	~~62~~	~~44729.438~~	~~815.75010~~	~~9.0~~	~~ppb~~
	Cu-KED3	63	233865.756	233.65964	1.3	ppb
	Cu-KED3	65	112153.360	231.23683	4.3	ppb
	~~Zn-KED3~~	~~66~~	~~24495.663~~	~~313.34285~~	~~5.9~~	~~ppb~~
>	Ge-KED3	72	15976.938			ppb
>	Ge-KED2	72	48865.783			ppb
	As-KED2	75	8156.329	70.27315	1.3	ppb
>	Ge-KED1	72	274001.016			ppb
	Se-KED1	77	2717.592	58.03732	1.0	ppb
	Se-KED1	78	7480.294	50.89017	3.4	ppb
	Mo-KED2	95	40036.026	56.49882	4.0	ppb
	Mo-KED2	97	25435.959	55.93090	2.4	ppb
	Mo-KED2	98	64384.345	54.56316	3.4	ppb
	Ag-KED2	107	25676.399	9.30553	0.7	ppb
	Ag-KED2	109	24862.625	9.31309	0.6	ppb
	Cd-KED2	111	13503.714	46.89708	3.3	ppb
	Cd-KED2	114	31831.621	46.52834	0.9	ppb
>	In-KED2	115	16736.967			ppb
	Sb-KED2	121	22221.946	48.31908	3.1	ppb
	Sb-KED2	123	17708.219	47.59203	2.6	ppb
	Ba-KED2	135	33239.967	191.77620	1.6	ppb
	Ba-KED2	137	63010.656	192.23824	3.2	ppb
>	Lu-KED2	175	71218.416			ppb
	Tl-KED2	203	112858.050	46.10828	0.4	ppb
	Tl-KED2	205	270521.343	46.42260	0.3	ppb
	Pb-KED2	208	617649.988	86.69905	0.6	ppb

NA
m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		104			
	Be-STD1	9				78	
	Mn-STD1	55				90	
	Cr-KED3	52				22	
	Cr-KED3	53				93	
	Co-KED3	59				93	
	Ni-KED3	60				-2	
	Ni-KED3	62				1	
	Cu-KED3	63				91	
	Cu-KED3	65				80	
	Zn-KED3	66				46	
>	Ge-KED3	72		79			
>	Ge-KED2	72		76			
	As-KED2	75				98	
>	Ge-KED1	72		79			
	Se-KED1	77				110	
	Se-KED1	78				99	
	Mo-KED2	95				102	
	Mo-KED2	97				100	
	Mo-KED2	98				98	
	Ag-KED2	107				89	
	Ag-KED2	109				89	
	Cd-KED2	111				92	
	Cd-KED2	114				91	
>	In-KED2	115		77			
	Sb-KED2	121				96	
	Sb-KED2	123				95	
	Ba-KED2	135				92	
	Ba-KED2	137				98	
>	Lu-KED2	175		84			
	Tl-KED2	203				91	
	Tl-KED2	205				92	
	Pb-KED2	208				92	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-001S
Sample Date/Time: Monday, August 24, 2015 21:21:12
Sample Description: 5
Autosampler Position: 324
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508937-001S.043
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	938914.487			ppb
	Be-STD1	9	104985.047	17.44831	2.5	ppb
	Mn-STD1	55	40715165.617	1446.54048	2.0	ppb
	Cr-KED3	52	249049.960	606.56971	7.3	ppb
	Cr-KED3	53	31872.858	590.23712	2.8	ppb
	Co-KED3	59	297145.611	288.56187	3.9	ppb
	Ni-KED3	60	315718.218	976.22029	9.3	ppb
	Ni-KED3	62	50129.844	935.84650	4.4	ppb
	Cu-KED3	63	248048.365	253.72246	3.2	ppb
	Cu-KED3	65	127288.765	268.73776	4.0	ppb
	Zn-KED3	66	33464.175	439.02387	7.6	ppb
>	Ge-KED3	72	15596.521			ppb
>	Ge-KED2	72	49016.953			ppb
	As-KED2	75	25313.413	218.67784	2.6	ppb
>	Ge-KED1	72	269143.857			ppb
	Se-KED1	77	9545.863	224.06049	2.4	ppb
	Se-KED1	78	29660.756	205.74287	3.9	ppb
	Mo-KED2	95	148539.997	215.55779	1.2	ppb
	Mo-KED2	97	93953.278	212.57839	1.6	ppb
	Mo-KED2	98	243582.959	212.38492	2.2	ppb
	Ag-KED2	107	51412.687	19.18086	2.2	ppb
	Ag-KED2	109	49630.736	19.13576	1.5	ppb
	Cd-KED2	111	5867.872	20.94925	1.2	ppb
	Cd-KED2	114	13680.025	20.57319	1.7	ppb
>	In-KED2	115	16264.735			ppb
	Sb-KED2	121	20612.193	46.11120	2.1	ppb
	Sb-KED2	123	15993.402	44.22596	2.8	ppb
	Ba-KED2	135	95316.970	565.93731	2.6	ppb
	Ba-KED2	137	180080.884	564.94003	1.3	ppb
>	Lu-KED2	175	71741.362			ppb
	Tl-KED2	203	467219.542	189.50605	1.2	ppb
	Tl-KED2	205	1126636.527	191.94872	1.3	ppb
	Pb-KED2	208	1654142.899	230.51551	0.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		111			
	Be-STD1	9			82		
	Mn-STD1	55			11	NA	
	Cr-KED3	52			78	NA	
	Cr-KED3	53			51	NA	
	Co-KED3	59			100		
	Ni-KED3	60			80	NA	
	Ni-KED3	62			60	NA	
	Cu-KED3	63			66		
	Cu-KED3	65			77		
	Zn-KED3	66			74		
>	Ge-KED3	72		77			
>	Ge-KED2	72		76			
	As-KED2	75			99		
>	Ge-KED1	72		78			
	Se-KED1	77			110		
	Se-KED1	78			102		
	Mo-KED2	95			105		
	Mo-KED2	97			103		
	Mo-KED2	98			103		
	Ag-KED2	107			94		
	Ag-KED2	109			94		
	Cd-KED2	111			100		
	Cd-KED2	114			98		
>	In-KED2	115		75			
	Sb-KED2	121			23		
	Sb-KED2	123			22		
	Ba-KED2	135			105		
	Ba-KED2	137			105		
>	Lu-KED2	175		85			
	Tl-KED2	203			95		
	Tl-KED2	205			96		
	Pb-KED2	208			95		

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-001SD
Sample Date/Time: Monday, August 24, 2015 21:25:40
Sample Description: 5
Autosampler Position: 325
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\K1508937-001SD.044
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	898187.323			ppb
	Be-STD1	9	101845.279	17.68649	2.8	ppb
	Mn-STD1	55	45730692.312	1698.14202	4.7	ppb
	Cr-KED3	52	245572.767	605.92561	9.0	ppb
	Cr-KED3	53	31735.320	593.85013	2.1	ppb
	Co-KED3	59	295201.026	289.97247	0.7	ppb
	Ni-KED3	60	306394.097	959.23153	8.5	ppb
	Ni-KED3	62	49413.360	933.71121	5.1	ppb
	Cu-KED3	63	285369.508	295.60300	1.4	ppb
	Cu-KED3	65	145071.180	310.62314	7.2	ppb
	Zn-KED3	66	33823.017	449.51333	9.5	ppb
>	Ge-KED3	72	15425.016			ppb
>	Ge-KED2	72	47589.506			ppb
	As-KED2	75	24575.456	218.71470	2.0	ppb
>	Ge-KED1	72	266948.103			ppb
	Se-KED1	77	9006.845	212.92423	2.7	ppb
	Se-KED1	78	28642.708	200.21092	3.4	ppb
	Mo-KED2	95	143790.118	209.94929	1.1	ppb
	Mo-KED2	97	91608.897	208.47363	1.7	ppb
	Mo-KED2	98	236225.205	207.13115	2.1	ppb
	Ag-KED2	107	49821.732	18.69757	2.1	ppb
	Ag-KED2	109	48182.457	18.68694	0.6	ppb
	Cd-KED2	111	5544.743	19.91712	0.8	ppb
	Cd-KED2	114	13295.756	20.11576	2.9	ppb
>	In-KED2	115	16167.836			ppb
	Sb-KED2	121	19286.347	43.38748	0.6	ppb
	Sb-KED2	123	15426.912	42.89638	2.3	ppb
	Ba-KED2	135	92622.105	553.10126	2.4	ppb
	Ba-KED2	137	173349.490	547.25929	2.2	ppb
>	Lu-KED2	175	68445.254			ppb
	Tl-KED2	203	466468.098	198.32660	1.1	ppb
	Tl-KED2	205	1099253.035	196.30090	0.6	ppb
	Pb-KED2	208	1657242.032	242.07054	0.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		106			
	Be-STD1	9				83	
	Mn-STD1	55				137 NA	
	Cr-KED3	52				77 NA	
	Cr-KED3	53				56 NA	
	Co-KED3	59				101	
	Ni-KED3	60				72 NA	
	Ni-KED3	62				59 NA	
	Cu-KED3	63				108	
	Cu-KED3	65				119	
	Zn-KED3	66				79	
>	Ge-KED3	72		76			
>	Ge-KED2	72		74			
	As-KED2	75				99	
>	Ge-KED1	72		77			
	Se-KED1	77				105	
	Se-KED1	78				99	
	Mo-KED2	95				102	
	Mo-KED2	97				101	
	Mo-KED2	98				101	
	Ag-KED2	107				91	
	Ag-KED2	109				91	
	Cd-KED2	111				94	
	Cd-KED2	114				95	
>	In-KED2	115		74			
	Sb-KED2	121				22	
	Sb-KED2	123				21	
	Ba-KED2	135				102	
	Ba-KED2	137				101	
>	Lu-KED2	175		81			
	Tl-KED2	203				99	
	Tl-KED2	205				98	
	Pb-KED2	208				101	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508937-002
Sample Date/Time: Monday, August 24, 2015 21:30:08
Sample Description: 5
Autosampler Position: 326
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508937-002.045
User Name: RRM
Batch ID:

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
Li-STD1	6	928549.048			ppb
Be-STD1	9	6230.695	1.04298	6.1	ppb
Mn-STD1	55	32141613.530	1154.11581	2.6	ppb
Cr-KED3	52	203270.828	462.46201	8.0	ppb
Cr-KED3	53	28006.106	484.63174	5.5	ppb
Co-KED3	59	86258.096	78.26760	3.3	ppb
Ni-KED3	60	234270.282	676.37960	8.3	ppb
Ni-KED3	62	39316.179	686.38259	9.3	ppb
Cu-KED3	63	156419.536	149.70794	3.7	ppb
Cu-KED3	65	75387.192	148.81964	4.9	ppb
Zn-KED3	66	19133.497	234.33683	8.4	ppb
Ge-KED3	72	16688.414			ppb
Ge-KED2	72	52060.720			ppb
As-KED2	75	2454.544	19.44545	2.3	ppb
Ge-KED1	72	286685.542			ppb
Se-KED1	77	396.006	2.63732	23.0	ppb
Se-KED1	78	205.913	1.26831	6.5	ppb
Mo-KED2	95	3515.099	4.84621	2.1	ppb
Mo-KED2	97	2250.844	4.84164	4.3	ppb
Mo-KED2	98	5891.151	4.87815	0.8	ppb
Ag-KED2	107	980.367	0.34477	3.4	ppb
Ag-KED2	109	907.362	0.32887	1.2	ppb
Cd-KED2	111	248.002	0.83385	6.3	ppb
Cd-KED2	114	556.974	0.79022	4.8	ppb
In-KED2	115	17043.976			ppb
Sb-KED2	121	143.334	0.24499	17.1	ppb
Sb-KED2	123	113.497	0.23516	9.6	ppb
Ba-KED2	135	26422.414	149.65317	0.9	ppb
Ba-KED2	137	49065.120	146.90982	1.3	ppb
Lu-KED2	175	73219.520			ppb
Tl-KED2	203	960.699	0.37801	2.9	ppb
Tl-KED2	205	2338.191	0.38576	3.6	ppb
Pb-KED2	208	213615.541	29.16461	1.2	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		110		
	Be-STD1	9				
	Mn-STD1	55				
	Cr-KED3	52				
	Cr-KED3	53				
	Co-KED3	59				
	Ni-KED3	60				
	Ni-KED3	62				
	Cu-KED3	63				
	Cu-KED3	65				
	Zn-KED3	66				
>	Ge-KED3	72		83		
>	Ge-KED2	72		81		
	As-KED2	75				
>	Ge-KED1	72		83		
	Se-KED1	77				
	Se-KED1	78				
	Mo-KED2	95				
	Mo-KED2	97				
	Mo-KED2	98				
	Ag-KED2	107				
	Ag-KED2	109				
	Cd-KED2	111				
	Cd-KED2	114				
>	In-KED2	115		78		
	Sb-KED2	121				
	Sb-KED2	123				
	Ba-KED2	135				
	Ba-KED2	137				
>	Lu-KED2	175		87		
	Tl-KED2	203				
	Tl-KED2	205				
	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508964-001
Sample Date/Time: Monday, August 24, 2015 21:34:36
Sample Description: 5
Autosampler Position: 327
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508964-001.046
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	866276.881			ppb
	Be-STD1	9	2136.160	0.38067	2.6	ppb
	Mn-STD1	55	10236418.251	394.15031	2.8	ppb
	Cr-KED3	52	9366.408	19.25922	8.2	ppb
	Cr-KED3	53	1490.745	22.48221	3.3	ppb
	Co-KED3	59	18802.710	15.45805	4.6	ppb
	Ni-KED3	60	7359.564	19.23127	7.6	ppb
	Ni-KED3	62	1222.719	19.28246	10.3	ppb
	Cu-KED3	63	85834.772	74.32170	1.8	ppb
	Cu-KED3	65	41974.589	75.05424	5.5	ppb
	Zn-KED3	66	7722.422	85.48191	5.5	ppb
>	Ge-KED3	72	18430.893			ppb
>	Ge-KED2	72	58907.875			ppb
	As-KED2	75	514.009	3.12985	3.3	ppb
>	Ge-KED1	72	328736.425			ppb
	Se-KED1	77	343.338	0.38646	262.9	ppb
	Se-KED1	78	40.623	0.16289	17.3	ppb
	Mo-KED2	95	443.340	0.53196	2.7	ppb
	Mo-KED2	97	274.003	0.51428	10.3	ppb
	Mo-KED2	98	748.841	0.53856	4.7	ppb
	Ag-KED2	107	178.668	0.05318	1.7	ppb
	Ag-KED2	109	151.334	0.04523	4.6	ppb
	Cd-KED2	111	56.333	0.16166	7.0	ppb
	Cd-KED2	114	128.880	0.15730	15.6	ppb
>	In-KED2	115	18905.887			ppb
	Sb-KED2	121	108.667	0.14844	27.6	ppb
	Sb-KED2	123	95.038	0.16164	15.2	ppb
	Ba-KED2	135	17530.084	89.48599	1.0	ppb
	Ba-KED2	137	31781.667	85.76179	2.0	ppb
>	Lu-KED2	175	79447.381			ppb
	Tl-KED2	203	280.003	0.09870	4.7	ppb
	Tl-KED2	205	617.013	0.09030	3.3	ppb
	Pb-KED2	208	77724.178	9.77855	2.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		91			
>	Ge-KED2	72		92			
	As-KED2	75					
>	Ge-KED1	72		95			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		87			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		94			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508964-002
Sample Date/Time: Monday, August 24, 2015 21:39:04
Sample Description: 5
Autosampler Position: 328
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508964-002.047
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	854105.318			ppb
	Be-STD1	9	2214.839	0.40128	10.5	ppb
	Mn-STD1	55	13319666.116	520.42789	4.7	ppb
	Cr-KED3	52	12143.829	25.51488	7.5	ppb
	Cr-KED3	53	1864.122	28.97395	4.3	ppb
	Co-KED3	59	26100.220	21.87911	1.6	ppb
	Ni-KED3	60	8618.603	23.01947	9.5	ppb
	Ni-KED3	62	1384.067	22.32231	5.7	ppb
	Cu-KED3	63	289073.752	255.58837	1.9	ppb
	Cu-KED3	65	146770.555	267.69898	2.7	ppb
	Zn-KED3	66	6960.363	78.79442	9.1	ppb
>	Ge-KED3	72	18059.096			ppb
>	Ge-KED2	72	56807.732			ppb
	As-KED2	75	779.688	5.25210	3.5	ppb
>	Ge-KED1	72	321471.393			ppb
	Se-KED1	77	352.004	0.76078	56.2	ppb
	Se-KED1	78	38.633	0.15507	35.9	ppb
	Mo-KED2	95	616.013	0.75653	12.2	ppb
	Mo-KED2	97	382.672	0.73416	4.7	ppb
	Mo-KED2	98	973.969	0.71553	2.7	ppb
	Ag-KED2	107	558.344	0.17704	3.1	ppb
	Ag-KED2	109	473.675	0.15392	4.0	ppb
	Cd-KED2	111	33.000	0.09098	18.7	ppb
	Cd-KED2	114	53.778	0.06089	46.4	ppb
>	In-KED2	115	18697.459			ppb
	Sb-KED2	121	470.674	0.85588	5.7	ppb
	Sb-KED2	123	404.670	0.91005	3.2	ppb
	Ba-KED2	135	17093.554	88.23224	1.1	ppb
	Ba-KED2	137	32116.406	87.64618	2.4	ppb
>	Lu-KED2	175	80111.349			ppb
	Tl-KED2	203	256.002	0.08909	5.8	ppb
	Tl-KED2	205	584.345	0.08448	6.9	ppb
	Pb-KED2	208	128675.755	16.05203	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		89			
>	Ge-KED2	72		88			
	As-KED2	75					
>	Ge-KED1	72		93			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		86			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001
Sample Date/Time: Monday, August 24, 2015 21:43:31
Sample Description: 5
Autosampler Position: 329
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-001.048
User Name: RRM
Batch ID:

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
Li-STD1	6	927322.485			ppb
Be-STD1	9	10127.589	1.70203	3.6	ppb
Mn-STD1	55	49593582.514	1786.87849	5.7	ppb
Cr-KED3	52	118516.832	265.61559	4.3	ppb
Cr-KED3	53	16328.684	277.85862	4.4	ppb
Co-KED3	59	77528.001	69.40330	3.8	ppb
Ni-KED3	60	99594.634	283.19293	2.2	ppb
Ni-KED3	62	16581.631	284.92509	2.9	ppb
Cu-KED3	63	228493.076	215.50074	4.8	ppb
Cu-KED3	65	115642.341	225.10729	4.1	ppb
Zn-KED3	66	34004.773	410.35113	3.5	ppb
Ge-KED3	72	16921.018			ppb
Ge-KED2	72	50370.321			ppb
As-KED2	75	6476.135	53.99989	1.3	ppb
Ge-KED1	72	276787.036			ppb
Se-KED1	77	454.674	4.30582	22.4	ppb
Se-KED1	78	214.687	1.37843	5.1	ppb
Mo-KED2	95	1561.419	2.09851	2.7	ppb
Mo-KED2	97	1032.037	2.16519	7.9	ppb
Mo-KED2	98	2636.691	2.12725	1.0	ppb
Ag-KED2	107	2835.615	0.98559	2.8	ppb
Ag-KED2	109	2684.252	0.96350	3.4	ppb
Cd-KED2	111	478.008	1.58693	9.7	ppb
Cd-KED2	114	1146.252	1.60371	2.1	ppb
In-KED2	115	17388.116			ppb
Sb-KED2	121	500.675	0.98766	8.6	ppb
Sb-KED2	123	407.498	0.99078	0.8	ppb
Ba-KED2	135	39563.387	219.71887	3.3	ppb
Ba-KED2	137	75774.103	222.39374	0.9	ppb
Lu-KED2	175	74303.075			ppb
Tl-KED2	203	1258.722	0.48913	2.9	ppb
Tl-KED2	205	3178.020	0.51814	3.2	ppb
Pb-KED2	208	845584.788	113.77767	1.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		110			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		84			
>	Ge-KED2	72		78			
	As-KED2	75					
>	Ge-KED1	72		80			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		80			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		88			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 21:48:01
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.049
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	868090.860			ppb
	Be-STD1	9	136345.756	24.49876	1.1	ppb
	Mn-STD1	55	653479.409	25.00973	5.6	ppb
	Cr-KED3	52	11626.077	23.31818	7.0	ppb
	Cr-KED3	53	1600.757	23.59269	6.2	ppb
	Co-KED3	59	31698.822	25.45463	5.1	ppb
	Ni-KED3	60	8956.475	22.83754	5.6	ppb
	Ni-KED3	62	1498.079	23.04456	6.0	ppb
	Cu-KED3	63	28645.415	24.17819	2.1	ppb
	Cu-KED3	65	13711.914	23.91566	6.5	ppb
	Zn-KED3	66	2183.167	23.43938	2.2	ppb
>	Ge-KED3	72	18876.808			ppb
>	Ge-KED2	72	59016.664			ppb
	As-KED2	75	3529.769	24.81857	1.5	ppb
>	Ge-KED1	72	334575.812			ppb
	Se-KED1	77	1638.094	25.45618	5.4	ppb
	Se-KED1	78	4446.377	24.73615	3.2	ppb
	Mo-KED2	95	21347.274	26.07190	1.1	ppb
	Mo-KED2	97	13298.189	25.33069	4.6	ppb
	Mo-KED2	98	34613.840	25.39478	3.0	ppb
	Ag-KED2	107	80359.084	25.24563	2.2	ppb
	Ag-KED2	109	75853.870	24.62848	1.2	ppb
	Cd-KED2	111	8352.441	25.12440	2.8	ppb
	Cd-KED2	114	19376.220	24.53233	1.6	ppb
>	In-KED2	115	19316.558			ppb
	Sb-KED2	121	13156.060	24.74282	1.3	ppb
	Sb-KED2	123	10578.983	24.59595	1.3	ppb
	Ba-KED2	135	4786.135	23.89382	3.3	ppb
	Ba-KED2	137	9076.550	23.96720	1.3	ppb
>	Lu-KED2	175	78037.251			ppb
	Tl-KED2	203	69234.761	25.81183	1.8	ppb
	Tl-KED2	205	166095.931	26.00837	1.0	ppb
	Pb-KED2	208	205432.412	26.31193	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9	98				
	Mn-STD1	55	100				
	Cr-KED3	52	93				
	Cr-KED3	53	94				
	Co-KED3	59	102				
	Ni-KED3	60	91				
	Ni-KED3	62	92				
	Cu-KED3	63	97				
	Cu-KED3	65	96				
	Zn-KED3	66	94				
>	Ge-KED3	72		93			
>	Ge-KED2	72		92			
	As-KED2	75	99				
>	Ge-KED1	72		96			
	Se-KED1	77	102				
	Se-KED1	78	99				
	Mo-KED2	95	104				
	Mo-KED2	97	101				
	Mo-KED2	98	102				
	Ag-KED2	107	101				
	Ag-KED2	109	99				
	Cd-KED2	111	100				
	Cd-KED2	114	98				
>	In-KED2	115		89			
	Sb-KED2	121	99				
	Sb-KED2	123	98				
	Ba-KED2	135	96				
	Ba-KED2	137	96				
>	Lu-KED2	175		92			
	Tl-KED2	203	103				
	Tl-KED2	205	104				
	Pb-KED2	208	105				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 21:52:29
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.050
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	866168.562			ppb
	Be-STD1	9	18.000	-0.00082	125.3	ppb
	Mn-STD1	55	2086.152	-0.02305	14.9	ppb
	Cr-KED3	52	22.333	0.00225	554.3	ppb
	Cr-KED3	53	39.333	-0.27144	59.6	ppb
	Co-KED3	59	6.333	-0.00076	434.2	ppb
	Ni-KED3	60	5.333	0.00141	773.8	ppb
	Ni-KED3	62	0.667	0.00087	2090.2	ppb
	Cu-KED3	63	54.000	0.00123	1105.6	ppb
	Cu-KED3	65	20.000	-0.00544	296.8	ppb
	Zn-KED3	66	16.667	0.01485	366.2	ppb
>	Ge-KED3	72	18176.894			ppb
>	Ge-KED2	72	57965.734			ppb
	As-KED2	75	72.667	-0.04420	277.3	ppb
>	Ge-KED1	72	331473.974			ppb
	Se-KED1	77	312.670	-0.23792	94.9	ppb
	Se-KED1	78	8.494	-0.01887	85.2	ppb
	Mo-KED2	95	10.000	-0.00945	50.3	ppb
	Mo-KED2	97	7.333	-0.00517	81.7	ppb
	Mo-KED2	98	18.603	-0.00944	21.2	ppb
	Ag-KED2	107	29.667	0.00515	65.9	ppb
	Ag-KED2	109	27.667	0.00400	24.3	ppb
	Cd-KED2	111	6.000	0.00651	46.0	ppb
	Cd-KED2	114	3.758	-0.00478	37.8	ppb
>	In-KED2	115	19320.590			ppb
	Sb-KED2	121	40.667	0.01547	61.5	ppb
	Sb-KED2	123	33.124	0.01273	124.6	ppb
	Ba-KED2	135	7.333	-0.00479	424.4	ppb
	Ba-KED2	137	5.667	-0.00142	273.9	ppb
>	Lu-KED2	175	76605.854			ppb
	Tl-KED2	203	22.667	0.00471	23.3	ppb
	Tl-KED2	205	34.000	0.00075	92.4	ppb
	Pb-KED2	208	76.000	0.00424	26.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		102			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		90			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		96			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		91			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001D
Sample Date/Time: Monday, August 24, 2015 21:56:59
Sample Description: 5
Autosampler Position: 330
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-001D.051
User Name: RRM
Batch ID:

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
Li-STD1	6	918506.227			ppb
Be-STD1	9	10245.675	1.73627	2.8	ppb
Mn-STD1	55	46809991.766	1699.50155	1.2	ppb
Cr-KED3	52	114513.304	266.36077	9.2	ppb
Cr-KED3	53	15447.687	272.66232	1.6	ppb
Co-KED3	59	74220.816	68.91275	4.5	ppb
Ni-KED3	60	99103.524	292.44586	7.4	ppb
Ni-KED3	62	16193.185	288.60959	4.1	ppb
Cu-KED3	63	224423.280	219.48900	2.7	ppb
Cu-KED3	65	110980.162	224.02820	3.9	ppb
Zn-KED3	66	34797.344	435.48640	3.8	ppb
Ge-KED3	72	16318.985			ppb
Ge-KED2	72	50861.392			ppb
As-KED2	75	6656.884	54.99270	2.4	ppb
Ge-KED1	72	279478.247			ppb
Se-KED1	77	455.341	4.18456	20.6	ppb
Se-KED1	78	204.950	1.30215	3.6	ppb
Mo-KED2	95	1602.090	2.12950	7.2	ppb
Mo-KED2	97	990.701	2.05518	1.5	ppb
Mo-KED2	98	2566.532	2.04803	3.6	ppb
Ag-KED2	107	2812.277	0.96703	2.9	ppb
Ag-KED2	109	2677.251	0.95059	2.3	ppb
Cd-KED2	111	442.340	1.45089	2.6	ppb
Cd-KED2	114	1035.767	1.43278	2.6	ppb
In-KED2	115	17572.696			ppb
Sb-KED2	121	494.009	0.96212	8.9	ppb
Sb-KED2	123	389.623	0.93402	3.5	ppb
Ba-KED2	135	43701.416	240.07405	0.2	ppb
Ba-KED2	137	80826.408	234.70067	1.2	ppb
Lu-KED2	175	74331.213			ppb
Tl-KED2	203	1306.060	0.50735	3.3	ppb
Tl-KED2	205	3057.327	0.49804	1.0	ppb
Pb-KED2	208	742196.793	99.82260	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		108			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		81			
>	Ge-KED2	72		79			
	As-KED2	75					
>	Ge-KED1	72		81			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		81			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		88			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001L
Sample Date/Time: Monday, August 24, 2015 22:01:27
Sample Description: 25
Autosampler Position: 331
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-001L.052
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit	
>	Li-STD1	6	888470.442			ppb	
	Be-STD1	9	2290.184	0.39827	2.4	ppb	
	Mn-STD1	55	9926028.430	372.54310	3.5	ppb	
	Cr-KED3	52	25264.000	52.54046	7.0	ppb	<1?
	Cr-KED3	53	3497.096	54.44527	2.3	ppb	
	Co-KED3	59	17228.069	14.29067	2.6	ppb	
	Ni-KED3	60	22835.276	60.34194	9.7	ppb	6?
	Ni-KED3	62	3741.157	59.63712	3.4	ppb	
	Cu-KED3	63	53654.338	46.85445	3.7	ppb	8?
	Cu-KED3	65	26896.640	48.54546	4.8	ppb	
	Zn-KED3	66	7878.841	88.10117	6.0	ppb	??
>	Ge-KED3	72	18251.000			ppb	
>	Ge-KED2	72	55799.100			ppb	
	As-KED2	75	1505.746	10.88194	2.9	ppb	1?
>	Ge-KED1	72	309290.860			ppb	
	Se-KED1	77	347.338	0.92456	70.6	ppb	
	Se-KED1	78	56.694	0.27567	10.2	ppb	
	Mo-KED2	95	329.337	0.39990	1.6	ppb	
	Mo-KED2	97	208.002	0.39568	19.8	ppb	
	Mo-KED2	98	588.460	0.42932	5.7	ppb	
	Ag-KED2	107	657.348	0.21207	1.9	ppb	
	Ag-KED2	109	620.680	0.20607	4.8	ppb	
	Cd-KED2	111	115.000	0.35072	12.6	ppb	
	Cd-KED2	114	279.197	0.36082	6.8	ppb	
>	In-KED2	115	18445.384			ppb	
	Sb-KED2	121	116.667	0.16908	21.0	ppb	
	Sb-KED2	123	99.205	0.17763	7.2	ppb	
	Ba-KED2	135	8493.858	44.42321	2.2	ppb	
	Ba-KED2	137	16328.662	45.16083	2.0	ppb	
>	Lu-KED2	175	79386.645			ppb	
	Tl-KED2	203	280.003	0.09873	4.0	ppb	
	Tl-KED2	205	701.684	0.10339	5.8	ppb	
	Pb-KED2	208	187393.888	23.59493	1.1	ppb	4?

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		105			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		90			
>	Ge-KED2	72		87			
	As-KED2	75					
>	Ge-KED1	72		89			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		85			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		94			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001A
Sample Date/Time: Monday, August 24, 2015 22:05:55
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 332
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-001A.053
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	872266.264			ppb
	Be-STD1	9	232988.863	41.67672	2.4	ppb
	~~Mn-STD1~~	~~55~~	~~47205042.406~~	~~1805.11911~~	~~3.6~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~132927.230~~	~~295.50790~~	~~5.9~~	~~ppb~~
	~~Cr-KED3~~	~~53~~	~~18492.671~~	~~312.32989~~	~~7.8~~	~~ppb~~
	Co-KED3	59	127169.279	112.82918	1.7	ppb
	~~Ni-KED3~~	~~60~~	~~108694.820~~	~~306.62150~~	~~5.8~~	~~ppb~~
	~~Ni-KED3~~	~~62~~	~~18584.105~~	~~316.79553~~	~~6.4~~	~~ppb~~
	~~Cu-KED3~~	~~63~~	~~273798.103~~	~~256.21126~~	~~4.2~~	~~ppb~~
	~~Cu-KED3~~	~~65~~	~~134002.333~~	~~258.56306~~	~~4.5~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~36479.903~~	~~436.74909~~	~~6.7~~	~~ppb~~
>	Ge-KED3	72	17072.870			ppb
>	Ge-KED2	72	50225.148			ppb
	As-KED2	75	11982.359	100.70965	2.8	ppb
>	Ge-KED1	72	282408.202			ppb
	Se-KED1	77	2680.919	55.24099	1.7	ppb
	Se-KED1	78	7623.841	50.29190	3.3	ppb
	Mo-KED2	95	38044.606	51.56443	1.3	ppb
	Mo-KED2	97	24121.685	50.96303	1.3	ppb
	Mo-KED2	98	61205.065	49.83326	1.3	ppb
	Ag-KED2	107	28128.000	9.80054	2.1	ppb
	Ag-KED2	109	27207.886	9.79725	1.5	ppb
	Cd-KED2	111	14091.948	47.02815	2.4	ppb
	Cd-KED2	114	33027.453	46.41280	2.7	ppb
>	In-KED2	115	17410.849			ppb
	Sb-KED2	121	23361.755	48.81557	0.7	ppb
	Sb-KED2	123	18321.736	47.32556	1.3	ppb
	~~Ba-KED2~~	~~135~~	~~46532.338~~	~~258.05492~~	~~2.3~~	~~ppb~~
	~~Ba-KED2~~	~~137~~	~~89039.315~~	~~260.97850~~	~~0.9~~	~~ppb~~
>	Lu-KED2	175	74370.081			ppb
	Tl-KED2	203	116415.120	45.54739	1.5	ppb
	Tl-KED2	205	277483.310	45.59937	0.5	ppb
	Pb-KED2	208	1158054.082	155.67030	0.5	ppb

N/A
RRM 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9				80	
	Mn-STD1	55				36 NA	
	Cr-KED3	52				60	
	Cr-KED3	53				69	
	Co-KED3	59				87	
	Ni-KED3	60				47 NA	
	Ni-KED3	62				64	
	Cu-KED3	63				81	
	Cu-KED3	65				67	
	Zn-KED3	66				53	
>	Ge-KED3	72		85			
>	Ge-KED2	72		78			
	As-KED2	75				93	
>	Ge-KED1	72		81			
	Se-KED1	77				102	
	Se-KED1	78				98	
	Mo-KED2	95				99	
	Mo-KED2	97				98	
	Mo-KED2	98				95	
	Ag-KED2	107				88	
	Ag-KED2	109				88	
	Cd-KED2	111				91	
	Cd-KED2	114				90	
>	In-KED2	115		80			
	Sb-KED2	121				96	
	Sb-KED2	123				93	
	Ba-KED2	135				77	
	Ba-KED2	137				77 NA	
>	Lu-KED2	175		88			
	Tl-KED2	203				90	
	Tl-KED2	205				90	
	Pb-KED2	208				84	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001S
Sample Date/Time: Monday, August 24, 2015 22:10:23
Sample Description: 5
Autosampler Position: 333
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-001S.054
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	921519.001			ppb
	Be-STD1	9	103544.959	17.52822	0.4	ppb
	Mn-STD1	55	53876790.322	1952.16164	4.4	ppb
	Cr-KED3	52	157748.116	365.37346	9.6	ppb
	Cr-KED3	53	21762.588	382.99886	7.9	ppb
	Co-KED3	59	294074.523	271.54673	3.2	ppb
	Ni-KED3	60	164935.837	484.95257	10.8	ppb
	Ni-KED3	62	27268.735	484.23611	9.6	ppb
	Cu-KED3	63	312534.902	304.36137	5.6	ppb
	Cu-KED3	65	152245.181	305.85750	5.9	ppb
	Zn-KED3	66	47020.706	586.50277	9.6	ppb
>	Ge-KED3	72	16419.781			ppb
>	Ge-KED2	72	50579.755			ppb
	As-KED2	75	29864.853	250.14358	1.4	ppb
>	Ge-KED1	72	288434.943			ppb
	Se-KED1	77	9615.912	209.98652	2.6	ppb
	Se-KED1	78	30583.614	197.70948	2.0	ppb
	Mo-KED2	95	137281.299	185.33271	2.3	ppb
	Mo-KED2	97	87769.497	184.67441	0.8	ppb
	Mo-KED2	98	223095.907	180.89678	1.0	ppb
	Ag-KED2	107	52966.344	18.37574	0.2	ppb
	Ag-KED2	109	52018.204	18.65281	0.5	ppb
	Cd-KED2	111	5985.921	19.87986	0.6	ppb
	Cd-KED2	114	14535.405	20.32801	1.9	ppb
>	In-KED2	115	17486.149			ppb
	Sb-KED2	121	28885.842	60.11026	0.2	ppb
	Sb-KED2	123	22648.933	58.25823	0.3	ppb
	Ba-KED2	135	112425.408	620.71157	1.2	ppb
	Ba-KED2	137	209738.292	612.07167	1.8	ppb
>	Lu-KED2	175	73438.961			ppb
	Tl-KED2	203	487057.495	193.00510	1.8	ppb
	Tl-KED2	205	1147210.596	190.93308	0.7	ppb
	Pb-KED2	208	2178974.126	296.64508	1.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9				79	
	Mn-STD1	55				83 NA	
	Cr-KED3	52				125	
	Cr-KED3	53				131	
	Co-KED3	59				101	
	Ni-KED3	60				101	
	Ni-KED3	62				100	
	Cu-KED3	63				89	
	Cu-KED3	65				81	
	Zn-KED3	66				88	
>	Ge-KED3	72		81			
>	Ge-KED2	72		79			
	As-KED2	75				98	
>	Ge-KED1	72		83			
	Se-KED1	77				103	
	Se-KED1	78				98	
	Mo-KED2	95				92	
	Mo-KED2	97				91	
	Mo-KED2	98				89	
	Ag-KED2	107				87	
	Ag-KED2	109				88	
	Cd-KED2	111				91	
	Cd-KED2	114				94	
>	In-KED2	115		80			
	Sb-KED2	121				30	
	Sb-KED2	123				29	
	Ba-KED2	135				100	
	Ba-KED2	137				97	
>	Lu-KED2	175		87			
	Tl-KED2	203				96	
	Tl-KED2	205				95	
	Pb-KED2	208				91	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-002
Sample Date/Time: Monday, August 24, 2015 22:14:51
Sample Description: 5
Autosampler Position: 334
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-002.055
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	968048.576			ppb
	Be-STD1	9	10223.658	1.64361	1.1	ppb
	Mn-STD1	55	54090803.566	1863.50717	3.4	ppb
	Cr-KED3	52	116936.219	260.11175	6.3	ppb
	Cr-KED3	53	15721.330	265.59233	5.8	ppb
	Co-KED3	59	65444.164	58.09038	2.9	ppb
	Ni-KED3	60	96069.637	271.22541	6.5	ppb
	Ni-KED3	62	15114.678	257.76484	6.0	ppb
	Cu-KED3	63	201085.554	188.22213	0.9	ppb
	Cu-KED3	65	104644.269	202.01139	5.2	ppb
	Zn-KED3	66	33604.563	402.76685	8.3	ppb
>	Ge-KED3	72	17057.183			ppb
>	Ge-KED2	72	53235.734			ppb
	As-KED2	75	7116.106	56.18680	1.6	ppb
>	Ge-KED1	72	296986.012			ppb
	Se-KED1	77	473.341	3.95723	18.9	ppb
	Se-KED1	78	286.893	1.73510	2.0	ppb
	Mo-KED2	95	1682.099	2.22197	3.3	ppb
	Mo-KED2	97	1036.038	2.13567	3.6	ppb
	Mo-KED2	98	2750.941	2.18078	2.6	ppb
	Ag-KED2	107	2937.969	1.00359	5.2	ppb
	Ag-KED2	109	2804.275	0.98891	0.7	ppb
	Cd-KED2	111	497.342	1.62110	2.3	ppb
	Cd-KED2	114	1199.687	1.65001	2.9	ppb
>	In-KED2	115	17694.674			ppb
	Sb-KED2	121	506.676	0.98125	7.5	ppb
	Sb-KED2	123	432.244	1.03551	2.8	ppb
	Ba-KED2	135	37608.116	205.23542	2.7	ppb
	Ba-KED2	137	69570.346	200.66516	1.3	ppb
>	Lu-KED2	175	75211.223			ppb
	Tl-KED2	203	1247.388	0.47869	6.3	ppb
	Tl-KED2	205	2965.976	0.47677	6.6	ppb
	Pb-KED2	208	820202.529	109.04873	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		114			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		84			
>	Ge-KED2	72		83			
	As-KED2	75					
>	Ge-KED1	72		86			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		81			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		89			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-003
Sample Date/Time: Monday, August 24, 2015 22:19:19
Sample Description: 5
Autosampler Position: 335
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508970-003.056
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	1047912.804			ppb
	Be-STD1	9	13519.062	2.00964	2.9	ppb
	Mn-STD1	55	114096055.400	3633.71029	3.6	ppb
	Cr-KED3	52	135746.529	289.06032	4.4	ppb
	Cr-KED3	53	18952.625	306.55921	7.9	ppb
	Co-KED3	59	98355.920	83.63363	1.0	ppb
	Ni-KED3	60	86792.870	234.49462	3.1	ppb
	Ni-KED3	62	14046.926	229.31349	6.3	ppb
	Cu-KED3	63	217289.003	194.72862	4.0	ppb
	Cu-KED3	65	108425.165	200.43852	3.1	ppb
	Zn-KED3	66	26838.873	307.75479	5.2	ppb
>	Ge-KED3	72	17812.102			ppb
>	Ge-KED2	72	54341.499			ppb
	As-KED2	75	8333.431	64.53875	3.0	ppb
>	Ge-KED1	72	307856.873			ppb
	Se-KED1	77	578.012	5.81168	19.1	ppb
	Se-KED1	78	247.960	1.43126	4.9	ppb
	Mo-KED2	95	3069.664	4.02424	3.9	ppb
	Mo-KED2	97	2010.809	4.11168	5.5	ppb
	Mo-KED2	98	5250.975	4.13597	5.0	ppb
	Ag-KED2	107	1127.711	0.37813	4.4	ppb
	Ag-KED2	109	1080.041	0.37334	3.9	ppb
	Cd-KED2	111	290.670	0.93163	3.6	ppb
	Cd-KED2	114	693.617	0.93832	2.5	ppb
>	In-KED2	115	17908.018			ppb
	Sb-KED2	121	687.350	1.33723	3.4	ppb
	Sb-KED2	123	568.878	1.36539	4.2	ppb
	Ba-KED2	135	125824.499	678.39195	1.7	ppb
	Ba-KED2	137	233968.396	666.78679	1.6	ppb
>	Lu-KED2	175	75490.938			ppb
	Tl-KED2	203	1396.735	0.53459	6.5	ppb
	Tl-KED2	205	3426.745	0.55020	4.0	ppb
	Pb-KED2	208	595673.826	78.88484	2.2	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		124			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		88			
⌈>	Ge-KED2	72		85			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		89			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		82			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		89			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001
Sample Date/Time: Monday, August 24, 2015 22:23:47
Sample Description: 5
Autosampler Position: 336
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1509039-001.057
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	877437.421			ppb
	Be-STD1	9	8239.045	1.46121	4.1	ppb
	~~Mn-STD1~~	~~55~~	~~599804564.871~~	~~22803.08688~~	~~3.2~~	~~ppb~~
	Cr-KED3	52	276457.906	553.02803	7.4	ppb
	Cr-KED3	53	37486.471	570.34138	2.2	ppb
	Co-KED3	59	37861.119	30.23578	2.7	ppb
	Ni-KED3	60	24823.927	63.00936	7.7	ppb
	Ni-KED3	62	4231.294	64.85464	4.3	ppb
	Cu-KED3	63	130841.333	110.08162	3.1	ppb
	Cu-KED3	65	63691.081	110.60980	5.3	ppb
	Zn-KED3	66	34444.833	370.87213	4.6	ppb
>	Ge-KED3	72	18969.257			ppb
>	Ge-KED2	72	59089.979			ppb
	As-KED2	75	2738.929	19.10628	4.1	ppb
>	Ge-KED1	72	339321.324			ppb
	Se-KED1	77	424.673	1.75131	27.1	ppb
	Se-KED1	78	93.256	0.44568	6.8	ppb
	Mo-KED2	95	12969.218	15.70509	1.4	ppb
	Mo-KED2	97	8189.683	15.46029	4.1	ppb
	Mo-KED2	98	21463.528	15.61411	2.6	ppb
	Ag-KED2	107	866.026	0.26576	6.0	ppb
	Ag-KED2	109	813.356	0.25708	2.4	ppb
	Cd-KED2	111	424.673	1.25644	4.0	ppb
	Cd-KED2	114	970.875	1.21038	1.5	ppb
>	In-KED2	115	19471.471			ppb
	Sb-KED2	121	906.695	1.63626	7.1	ppb
	Sb-KED2	123	715.472	1.59054	4.6	ppb
	Ba-KED2	135	105527.131	523.51604	4.2	ppb
	Ba-KED2	137	194982.648	511.14302	1.9	ppb
>	Lu-KED2	175	79703.063			ppb
	Tl-KED2	203	393.339	0.13979	14.6	ppb
	Tl-KED2	205	932.697	0.13838	4.6	ppb
	Pb-KED2	208	687763.741	86.26519	0.7	ppb

OR

m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		104			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		94			
>	Ge-KED2	72		92			
	As-KED2	75					
>	Ge-KED1	72		98			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		89			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		94			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001D
Sample Date/Time: Monday, August 24, 2015 22:28:15
Sample Description: 5
Autosampler Position: 337
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1509039-001D.058
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	906188.483			ppb
	Be-STD1	9	5815.183	0.99743	2.5	ppb
	~~Mn-STD1~~	~~55~~	~~234745512.759~~	~~8643.98748~~	~~5.4~~	~~ppb~~
	Cr-KED3	52	299678.610	595.14401	11.0	ppb
	Cr-KED3	53	40647.180	613.15442	6.4	ppb
	Co-KED3	59	39017.898	30.90169	6.1	ppb
	Ni-KED3	60	26528.318	66.81663	9.9	ppb
	Ni-KED3	62	4531.385	68.87778	4.5	ppb
	Cu-KED3	63	178814.909	149.08613	2.9	ppb
	Cu-KED3	65	86934.405	149.61107	4.7	ppb
	Zn-KED3	66	32642.258	348.43659	5.7	ppb
>	Ge-KED3	72	19156.523			ppb
>	Ge-KED2	72	59690.513			ppb
	As-KED2	75	2128.825	14.57553	3.5	ppb
>	Ge-KED1	72	343470.884			ppb
	Se-KED1	77	400.006	1.20373	58.8	ppb
	Se-KED1	78	85.367	0.39767	8.8	ppb
	Mo-KED2	95	11801.547	14.38409	4.6	ppb
	Mo-KED2	97	7517.979	14.28533	3.1	ppb
	Mo-KED2	98	19267.744	14.10470	3.1	ppb
	Ag-KED2	107	743.353	0.22906	3.9	ppb
	Ag-KED2	109	730.352	0.23187	3.6	ppb
	Cd-KED2	111	383.339	1.14034	12.7	ppb
	Cd-KED2	114	919.338	1.15362	5.2	ppb
>	In-KED2	115	19339.308			ppb
	Sb-KED2	121	957.365	1.74191	2.7	ppb
	Sb-KED2	123	748.099	1.67720	6.2	ppb
	Ba-KED2	135	57391.065	286.48500	1.2	ppb
	Ba-KED2	137	106063.652	279.86599	1.2	ppb
>	Lu-KED2	175	78724.989			ppb
	Tl-KED2	203	398.006	0.14324	8.8	ppb
	Tl-KED2	205	935.031	0.14050	1.3	ppb
	Pb-KED2	208	568494.490	72.18823	0.3	ppb

m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		107			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		95			
>	Ge-KED2	72		93			
	As-KED2	75					
>	Ge-KED1	72		99			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		89			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		93			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001L
Sample Date/Time: Monday, August 24, 2015 22:32:43
Sample Description: 25
Autosampler Position: 338
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1509039-001L.059
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	964358.407			ppb
	Be-STD1	9	2035.478	0.32541	2.6	ppb
	~~Mn-STD1~~	~~55~~	~~123224976.738~~	~~4261.85818~~	~~0.8~~	~~ppb~~
	Cr-KED3	52	61337.625	111.44334	8.6	ppb
	Cr-KED3	53	8059.615	110.56055	6.9	ppb
	Co-KED3	59	8590.916	6.22539	3.8	ppb
	Ni-KED3	60	5811.852	13.39710	10.4	ppb
	Ni-KED3	62	922.030	12.83439	5.4	ppb
	Cu-KED3	63	31326.372	23.87995	1.7	ppb
	Cu-KED3	65	15524.432	24.44439	4.9	ppb
	Zn-KED3	66	8264.729	80.71066	8.5	ppb
>	Ge-KED3	72	20901.961			ppb
>	Ge-KED2	72	65891.000			ppb
	As-KED2	75	698.017	3.92687	6.9	ppb
>	Ge-KED1	72	377283.174			ppb
	Se-KED1	77	349.338	-0.34998	129.4	ppb
	Se-KED1	78	33.462	0.09806	17.6	ppb
	Mo-KED2	95	2840.949	3.16558	4.1	ppb
	Mo-KED2	97	1753.441	3.04719	3.9	ppb
	Mo-KED2	98	4643.723	3.10610	2.5	ppb
	Ag-KED2	107	193.668	0.05170	13.1	ppb
	Ag-KED2	109	190.001	0.05162	14.3	ppb
	Cd-KED2	111	92.334	0.24340	3.4	ppb
	Cd-KED2	114	239.029	0.26860	9.8	ppb
>	In-KED2	115	21049.803			ppb
	Sb-KED2	121	200.001	0.28510	9.0	ppb
	Sb-KED2	123	174.539	0.30909	8.6	ppb
	Ba-KED2	135	22774.807	104.44526	1.8	ppb
	Ba-KED2	137	42993.616	104.25667	3.5	ppb
>	Lu-KED2	175	83053.462			ppb
	Tl-KED2	203	86.000	0.02625	25.5	ppb
	Tl-KED2	205	211.668	0.02654	15.5	ppb
	Pb-KED2	208	150856.150	18.16067	2.9	ppb

m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		114			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		104			
>	Ge-KED2	72		103			
	As-KED2	75					
>	Ge-KED1	72		109			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		96			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		98			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001A
Sample Date/Time: Monday, August 24, 2015 22:37:11
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 339
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1509039-001A.060
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	933269.814			ppb
	Be-STD1	9	293875.175	49.13050	0.7	ppb
	~~Mn-STD1~~	~~55~~	~~619777195.114~~	~~22162.94117~~	~~3.4~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~280874.267~~	~~563.25530~~	~~12.3~~	~~ppb~~
	~~Cr-KED3~~	~~53~~	~~38014.532~~	~~599.22740~~	~~3.3~~	~~ppb~~
	Co-KED3	59	91958.259	76.08702	4.5	ppb
	Ni-KED3	60	39951.616	105.21865	11.1	ppb
	Ni-KED3	62	6645.548	105.75399	9.2	ppb
	Cu-KED3	63	176235.465	153.59259	1.3	ppb
	Cu-KED3	65	87029.723	156.59574	5.6	ppb
	~~Zn-KED3~~	~~66~~	~~36320.578~~	~~405.93702~~	~~10.9~~	~~ppb~~
>	Ge-KED3	72	18323.426			ppb
>	Ge-KED2	72	56760.227			ppb
	As-KED2	75	9228.647	68.45854	1.4	ppb
>	Ge-KED1	72	339624.855			ppb
	Se-KED1	77	3227.032	55.33229	3.3	ppb
	Se-KED1	78	9324.553	51.15978	2.3	ppb
	Mo-KED2	95	51465.883	64.59494	0.6	ppb
	Mo-KED2	97	33099.646	64.75999	2.4	ppb
	Mo-KED2	98	83474.302	62.92578	1.5	ppb
	Ag-KED2	107	27926.942	9.00746	0.6	ppb
	Ag-KED2	109	27715.867	9.23939	1.4	ppb
	Cd-KED2	111	15342.904	47.39914	1.8	ppb
	Cd-KED2	114	36965.877	48.08503	1.6	ppb
>	In-KED2	115	18803.498			ppb
	Sb-KED2	121	26282.160	50.85004	1.4	ppb
	Sb-KED2	123	20120.281	48.12031	1.1	ppb
	~~Ba-KED2~~	~~135~~	~~110172.045~~	~~565.61668~~	~~1.5~~	~~ppb~~
	~~Ba-KED2~~	~~137~~	~~204997.451~~	~~556.35736~~	~~0.2~~	~~ppb~~
>	Lu-KED2	175	77460.105			ppb
	Tl-KED2	203	116420.553	43.72936	1.3	ppb
	Tl-KED2	205	277333.116	43.75467	0.9	ppb
	Pb-KED2	208	1002091.140	129.33008	0.3	ppb

m 8/25/15

m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		110			
	Be-STD1	9				95	
	Mn-STD1	55				-1280	
	Cr-KED3	52				60	
	Cr-KED3	53				58	
	Co-KED3	59				92	
	Ni-KED3	60				84	
	Ni-KED3	62				82	
	Cu-KED3	63				87	
	Cu-KED3	65				92	
	Zn-KED3	66				70	
>	Ge-KED3	72		91			
>	Ge-KED2	72		88			
	As-KED2	75				99	
>	Ge-KED1	72		98			
	Se-KED1	77				107	
	Se-KED1	78				101	
	Mo-KED2	95				98	
	Mo-KED2	97				99	
	Mo-KED2	98				95	
	Ag-KED2	107				87	
	Ag-KED2	109				90	
	Cd-KED2	111				92	
	Cd-KED2	114				94	
>	In-KED2	115		86			
	Sb-KED2	121				98	
	Sb-KED2	123				93	
	Ba-KED2	135				84	
	Ba-KED2	137				90	
>	Lu-KED2	175		92			
	Tl-KED2	203				87	
	Tl-KED2	205				87	
	Pb-KED2	208				86	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 22:41:40
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.061
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	1047517.053			ppb
	Be-STD1	9	174375.247	25.96697	1.2	ppb
	Mn-STD1	55	787765.352	24.97691	0.2	ppb
	Cr-KED3	52	13126.042	24.14624	12.3	ppb
	Cr-KED3	53	1818.783	24.62041	10.0	ppb
	Co-KED3	59	34108.040	25.00742	2.6	ppb
	Ni-KED3	60	10463.170	24.43732	10.7	ppb
	Ni-KED3	62	1796.780	25.34385	8.8	ppb
	Cu-KED3	63	32297.216	24.91935	4.4	ppb
	Cu-KED3	65	15522.438	24.70229	2.7	ppb
	Zn-KED3	66	2420.205	23.83669	10.8	ppb
>	Ge-KED3	72	20676.992			ppb
>	Ge-KED2	72	66730.270			ppb
	As-KED2	75	3923.205	24.39963	3.4	ppb
>	Ge-KED1	72	395587.211			ppb
	Se-KED1	77	2016.143	26.79176	4.1	ppb
	Se-KED1	78	5341.008	25.17569	5.7	ppb
	Mo-KED2	95	22712.042	25.46402	1.8	ppb
	Mo-KED2	97	14620.145	25.55351	2.2	ppb
	Mo-KED2	98	37777.918	25.43750	2.2	ppb
	Ag-KED2	107	86778.565	25.01702	0.8	ppb
	Ag-KED2	109	82966.250	24.72856	2.0	ppb
	Cd-KED2	111	9121.913	25.17487	2.0	ppb
	Cd-KED2	114	21831.216	25.37072	0.9	ppb
>	In-KED2	115	21043.288			ppb
	Sb-KED2	121	14726.921	25.43552	1.5	ppb
	Sb-KED2	123	11721.698	25.02003	0.7	ppb
	Ba-KED2	135	5217.620	23.89336	2.0	ppb
	Ba-KED2	137	9904.100	24.00433	1.5	ppb
>	Lu-KED2	175	81095.547			ppb
	Tl-KED2	203	68811.329	24.68872	0.8	ppb
	Tl-KED2	205	164479.853	24.78751	1.5	ppb
	Pb-KED2	208	203321.572	25.06171	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		124			
	Be-STD1	9	104				
	Mn-STD1	55	100				
	Cr-KED3	52	97				
	Cr-KED3	53	98				
	Co-KED3	59	100				
	Ni-KED3	60	98				
	Ni-KED3	62	101				
	Cu-KED3	63	100				
	Cu-KED3	65	99				
	Zn-KED3	66	95				
>	Ge-KED3	72		102			
>	Ge-KED2	72		104			
	As-KED2	75	98				
>	Ge-KED1	72		114			
	Se-KED1	77	107				
	Se-KED1	78	101				
	Mo-KED2	95	102				
	Mo-KED2	97	102				
	Mo-KED2	98	102				
	Ag-KED2	107	100				
	Ag-KED2	109	99				
	Cd-KED2	111	101				
	Cd-KED2	114	101				
>	In-KED2	115		96			
	Sb-KED2	121	102				
	Sb-KED2	123	100				
	Ba-KED2	135	96				
	Ba-KED2	137	96				
>	Lu-KED2	175		96			
	Tl-KED2	203	99				
	Tl-KED2	205	99				
	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 22:46:08
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.062
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	994391.811			ppb
	Be-STD1	9	13.333	-0.00196	9.6	ppb
	Mn-STD1	55	2501.552	-0.01950	16.2	ppb
	Cr-KED3	52	27.667	0.00977	45.6	ppb
	Cr-KED3	53	47.333	-0.18887	58.0	ppb
	Co-KED3	59	9.667	0.00156	259.6	ppb
	Ni-KED3	60	6.333	0.00305	54.2	ppb
	Ni-KED3	62	4.667	0.06025	56.7	ppb
	Cu-KED3	63	40.667	-0.01283	43.4	ppb
	Cu-KED3	65	23.000	-0.00277	76.3	ppb
	Zn-KED3	66	12.000	-0.04507	45.8	ppb
>	Ge-KED3	72	19361.115			ppb
>	Ge-KED2	72	64282.319			ppb
	As-KED2	75	80.000	-0.04591	103.7	ppb
>	Ge-KED1	72	363718.437			ppb
	Se-KED1	77	318.004	-0.72103	174.6	ppb
	Se-KED1	78	9.797	-0.01725	117.4	ppb
	Mo-KED2	95	10.000	-0.01018	58.9	ppb
	Mo-KED2	97	8.667	-0.00346	221.7	ppb
	Mo-KED2	98	11.927	-0.01487	18.9	ppb
	Ag-KED2	107	26.667	0.00370	80.6	ppb
	Ag-KED2	109	26.333	0.00307	63.9	ppb
	Cd-KED2	111	4.667	0.00167	251.0	ppb
	Cd-KED2	114	4.955	-0.00364	53.8	ppb
>	In-KED2	115	20500.500			ppb
	Sb-KED2	121	50.667	0.02922	87.5	ppb
	Sb-KED2	123	38.956	0.02110	38.7	ppb
	Ba-KED2	135	4.000	-0.02247	72.6	ppb
	Ba-KED2	137	4.000	-0.00638	40.8	ppb
>	Lu-KED2	175	78856.736			ppb
	Tl-KED2	203	11.333	0.00029	647.6	ppb
	Tl-KED2	205	30.000	-0.00003	8185.1	ppb
	Pb-KED2	208	46.000	0.00016	118.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		117			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		96			
>	Ge-KED2	72		100			
	As-KED2	75					
>	Ge-KED1	72		105			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		94			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		93			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Monday, August 24, 2015 22:50:37
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\LLCCVS.063
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	983247.033			ppb
	Be-STD1	9	277.336	0.03999	6.0	ppb
	Mn-STD1	55	6081.295	0.10288	3.6	ppb
	Cr-KED3	52	221.335	0.38599	9.5	ppb
	Cr-KED3	53	66.667	0.09078	56.0	ppb
	Co-KED3	59	60.000	0.04079	24.4	ppb
	Ni-KED3	60	159.668	0.38222	20.1	ppb
	Ni-KED3	62	22.000	0.32100	42.8	ppb
	Cu-KED3	63	308.003	0.20570	4.9	ppb
	Cu-KED3	65	148.667	0.20866	13.7	ppb
	Zn-KED3	66	108.334	0.96038	7.4	ppb
>	Ge-KED3	72	19525.013			ppb
>	Ge-KED2	72	60814.944			ppb
	As-KED2	75	220.335	0.96299	4.7	ppb
>	Ge-KED1	72	358311.323			ppb
	Se-KED1	77	438.673	1.58522	22.3	ppb
	Se-KED1	78	411.602	2.07151	3.9	ppb
	Mo-KED2	95	94.000	0.09164	21.7	ppb
	Mo-KED2	97	68.000	0.10846	17.9	ppb
	Mo-KED2	98	150.603	0.08576	9.3	ppb
	Ag-KED2	107	145.334	0.04078	1.7	ppb
	Ag-KED2	109	157.668	0.04542	9.5	ppb
	Cd-KED2	111	20.333	0.04877	31.2	ppb
	Cd-KED2	114	37.978	0.03784	11.5	ppb
>	In-KED2	115	19616.077			ppb
	Sb-KED2	121	98.000	0.12094	20.4	ppb
	Sb-KED2	123	61.457	0.07652	16.9	ppb
	Ba-KED2	135	24.000	0.07694	14.8	ppb
	Ba-KED2	137	42.667	0.09451	15.4	ppb
>	Lu-KED2	175	77483.924			ppb
	Tl-KED2	203	124.001	0.04273	21.0	ppb
	Tl-KED2	205	313.670	0.04481	2.2	ppb
	Pb-KED2	208	878.677	0.10776	6.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		116			
|	Be-STD1	9	100				
⌊	Mn-STD1	55	103				
⌈	Cr-KED3	52	96				
|	Cr-KED3	53	23				
|	Co-KED3	59	102				
|	Ni-KED3	60	96				
|	Ni-KED3	62	80				
|	Cu-KED3	63	103				
|	Cu-KED3	65	104				
|	Zn-KED3	66	96				
⌊>	Ge-KED3	72		97			
⌈>	Ge-KED2	72		95			
⌊	As-KED2	75	96				
⌈>	Ge-KED1	72		103			
|	Se-KED1	77	79				
⌊	Se-KED1	78	104				
⌈	Mo-KED2	95	92				
|	Mo-KED2	97	108				
|	Mo-KED2	98	86				
|	Ag-KED2	107	102				
|	Ag-KED2	109	114				
|	Cd-KED2	111	122				
|	Cd-KED2	114	95				
|>	In-KED2	115		90			
|	Sb-KED2	121	121				
|	Sb-KED2	123	77				
|	Ba-KED2	135	77				
⌊	Ba-KED2	137	95				
⌈>	Lu-KED2	175		92			
|	Tl-KED2	203	107				
|	Tl-KED2	205	112				
⌊	Pb-KED2	208	108				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: K1509039-001S
Sample Date/Time: Monday, August 24, 2015 22:55:06
Sample Description: 5
Autosampler Position: 340
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\K1509039-001S.064
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	994261.539			ppb
	~~Be-STD1~~	~~9~~	~~132320.211~~	~~20.76069~~	~~2.7~~	~~ppb~~
	~~Mn-STD1~~	~~55~~	~~131823447.365~~	~~4421.15871~~	~~1.7~~	~~ppb~~
	Cr-KED3	52	153529.780	311.75420	6.9	ppb
	Cr-KED3	53	20091.477	310.15319	7.4	ppb
	Co-KED3	59	291702.186	236.46621	4.5	ppb
	Ni-KED3	60	94892.762	244.51328	6.9	ppb
	Ni-KED3	62	15376.281	239.57219	7.2	ppb
	Cu-KED3	63	217862.612	186.14268	4.2	ppb
	Cu-KED3	65	107526.905	189.54755	4.7	ppb
	Zn-KED3	66	50073.510	547.91342	9.4	ppb
>	Ge-KED3	72	18695.570			ppb
>	Ge-KED2	72	58177.558			ppb
	As-KED2	75	28958.999	210.76631	3.0	ppb
>	Ge-KED1	72	335090.488			ppb
	Se-KED1	77	11999.722	226.15190	0.8	ppb
	Se-KED1	78	36120.279	200.89888	0.7	ppb
	Mo-KED2	95	165565.149	203.51013	2.7	ppb
	Mo-KED2	97	104912.546	201.01294	1.3	ppb
	Mo-KED2	98	272422.536	201.16226	2.2	ppb
	Ag-KED2	107	58490.501	18.47817	1.0	ppb
	Ag-KED2	109	55540.454	18.13395	1.6	ppb
	Cd-KED2	111	6658.218	20.13531	1.1	ppb
	Cd-KED2	114	16031.471	20.41730	1.1	ppb
>	In-KED2	115	19203.754			ppb
	Sb-KED2	121	45542.496	86.31875	1.1	ppb
	Sb-KED2	123	35466.770	83.09475	1.0	ppb
	Ba-KED2	135	160850.863	808.88059	3.5	ppb
	Ba-KED2	137	303258.630	805.91014	1.2	ppb
>	Lu-KED2	175	78348.945			ppb
	Tl-KED2	203	494064.027	183.50094	1.1	ppb
	Tl-KED2	205	1182903.136	184.53088	0.2	ppb
	Pb-KED2	208	2054378.964	262.16350	1.5	ppb

bracking CCV IS out
Not needed.
m 8/25/15

Sample ID: K1509039-001S
Report Date/Time: Tuesday, August 25, 2015 09:22:31
Page 1

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		117			
	Be-STD1	9				96	
	Mn-STD1	55				-9191 NA	
	Cr-KED3	52				-302 NA	
	Cr-KED3	53				-325 NA	
	Co-KED3	59				103	
	Ni-KED3	60				91	
	Ni-KED3	62				87	
	Cu-KED3	63				76	
	Cu-KED3	65				79	
	Zn-KED3	66				89	
>	Ge-KED3	72		93			
>	Ge-KED2	72		91			
	As-KED2	75				96	
>	Ge-KED1	72		97			
	Se-KED1	77				112	
	Se-KED1	78				100	
	Mo-KED2	95				94	
	Mo-KED2	97				93	
	Mo-KED2	98				93	
	Ag-KED2	107				91	
	Ag-KED2	109				89	
	Cd-KED2	111				94	
	Cd-KED2	114				96	
>	In-KED2	115		88			
	Sb-KED2	121				42	
	Sb-KED2	123				41	
	Ba-KED2	135				71	
	Ba-KED2	137				74	
>	Lu-KED2	175		93			
	Tl-KED2	203				92	
	Tl-KED2	205				92	
	Pb-KED2	208				88	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-002
Sample Date/Time: Monday, August 24, 2015 22:59:34
Sample Description: 5
Autosampler Position: 341
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082415D\K1509039-002.065
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	952852.438			ppb
	~~Be-STD1~~	~~9~~	~~5939.902~~	~~0.96928~~	~~5.5~~	~~ppb~~
	~~Mn-STD1~~	~~55~~	~~315871389.824~~	~~11054.89970~~	~~1.2~~	~~ppb~~
	Cr-KED3	52	525546.893	1059.25115	3.6	ppb
	Cr-KED3	53	67911.290	1042.95045	6.4	ppb
	Co-KED3	59	31687.801	25.49915	2.0	ppb
	Ni-KED3	60	19308.375	49.36527	2.9	ppb
	Ni-KED3	62	3080.333	47.60684	5.4	ppb
	Cu-KED3	63	112407.884	95.37327	1.4	ppb
	Cu-KED3	65	57031.648	99.76657	1.1	ppb
	Zn-KED3	66	38507.561	418.04446	5.9	ppb
>	Ge-KED3	72	18815.385			ppb
>	Ge-KED2	72	60008.123			ppb
	As-KED2	75	1427.738	9.52837	6.0	ppb
>	Ge-KED1	72	339871.562			ppb
	Se-KED1	77	413.339	1.51957	48.1	ppb
	Se-KED1	78	102.176	0.49678	13.6	ppb
	Mo-KED2	95	10856.791	12.95537	2.1	ppb
	Mo-KED2	97	6994.379	13.01019	0.9	ppb
	Mo-KED2	98	17618.644	12.62375	1.7	ppb
	Ag-KED2	107	855.026	0.25849	1.0	ppb
	Ag-KED2	109	860.693	0.26824	2.8	ppb
	Cd-KED2	111	547.010	1.59767	1.8	ppb
	Cd-KED2	114	1340.260	1.65078	2.2	ppb
>	In-KED2	115	19754.138			ppb
	Sb-KED2	121	835.358	1.47872	4.9	ppb
	Sb-KED2	123	624.760	1.35962	1.4	ppb
	Ba-KED2	135	56802.714	277.62468	1.7	ppb
	Ba-KED2	137	106784.641	275.87949	1.5	ppb
>	Lu-KED2	175	78136.156			ppb
	Tl-KED2	203	427.340	0.15517	3.9	ppb
	Tl-KED2	205	996.368	0.15117	3.3	ppb
	Pb-KED2	208	792332.546	101.39679	1.8	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		113			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		93			
>	Ge-KED2	72		93			
	As-KED2	75					
>	Ge-KED1	72		98			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		91			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		92			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: MoSTD
Sample Date/Time: Monday, August 24, 2015 23:04:02
Sample Description: +50ppb
Autosampler Position: 342
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\MoSTD.066
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	925111.087			ppb
	~~Be-STD1~~	~~9~~	~~19.333~~	~~-0.00080~~	~~57.5~~	~~ppb~~
	~~Mn-STD1~~	~~55~~	~~4818.148~~	~~0.07021~~	~~12.5~~	~~ppb~~
	Cr-KED3	52	31.667	0.01497	29.7	ppb
	Cr-KED3	53	38.667	-0.34493	22.2	ppb
	Co-KED3	59	9.000	0.00073	164.6	ppb
	Ni-KED3	60	6.333	0.00247	302.8	ppb
	Ni-KED3	62	1.333	0.00984	171.2	ppb
	Cu-KED3	63	52.667	-0.00472	194.4	ppb
	Cu-KED3	65	20.333	-0.00855	129.9	ppb
	Zn-KED3	66	18.333	0.01263	374.1	ppb
>	Ge-KED3	72	20206.953			ppb
>	Ge-KED2	72	67280.111			ppb
	As-KED2	75	77.667	-0.08448	21.2	ppb
>	Ge-KED1	72	390228.345			ppb
	Se-KED1	77	300.670	-1.34972	14.1	ppb
	Se-KED1	78	7.161	-0.03372	75.7	ppb
	Mo-KED2	95	44881.061	49.90430	2.1	ppb
	Mo-KED2	97	28340.093	49.12059	3.1	ppb
	Mo-KED2	98	72759.747	48.59486	2.5	ppb
	Ag-KED2	107	16.000	0.00041	152.1	ppb
	Ag-KED2	109	12.333	-0.00134	68.3	ppb
	Cd-KED2	111	9.000	0.01318	77.5	ppb
	Cd-KED2	114	15.491	0.00836	84.7	ppb
>	In-KED2	115	21226.164			ppb
	Sb-KED2	121	52.667	0.02921	10.6	ppb
	Sb-KED2	123	33.373	0.00623	142.6	ppb
	Ba-KED2	135	12.000	0.01320	312.3	ppb
	Ba-KED2	137	18.333	0.02771	60.5	ppb
>	Lu-KED2	175	80725.441			ppb
	Tl-KED2	203	23.333	0.00452	56.4	ppb
	Tl-KED2	205	64.667	0.00513	87.9	ppb
	Pb-KED2	208	170.667	0.01547	27.8	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		100			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		113			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		97			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 23:08:32
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.067
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	1085849.350			ppb
	~~Be-STD1~~	~~9~~	~~177024.107~~	~~25.43460~~	~~1.1~~	~~ppb~~
	~~Mn-STD1~~	~~55~~	~~814680.971~~	~~24.91846~~	~~3.7~~	~~ppb~~
	Cr-KED3	52	13039.624	24.62444	7.2	ppb
	Cr-KED3	53	1702.102	23.60890	3.1	ppb
	Co-KED3	59	32728.455	24.72364	4.5	ppb
	Ni-KED3	60	10195.979	24.46353	7.9	ppb
	Ni-KED3	62	1661.430	24.07925	3.3	ppb
	Cu-KED3	63	31057.070	24.68003	2.3	ppb
	Cu-KED3	65	15063.942	24.70531	5.5	ppb
	Zn-KED3	66	2429.540	24.58021	5.1	ppb
>	Ge-KED3	72	20063.420			ppb
>	Ge-KED2	72	64853.662			ppb
	As-KED2	75	3846.185	24.60558	2.3	ppb
>	Ge-KED1	72	384030.347			ppb
	Se-KED1	77	1896.793	25.68562	2.7	ppb
	Se-KED1	78	5240.959	25.40490	3.0	ppb
	Mo-KED2	95	22734.090	26.17667	1.2	ppb
	Mo-KED2	97	14403.268	25.84301	1.2	ppb
	Mo-KED2	98	36050.619	24.92400	0.9	ppb
	Ag-KED2	107	84500.753	25.02131	0.6	ppb
	Ag-KED2	109	80570.988	24.67076	2.5	ppb
	Cd-KED2	111	8885.431	25.19369	1.1	ppb
	Cd-KED2	114	20899.071	24.95485	1.2	ppb
>	In-KED2	115	20488.050			ppb
	Sb-KED2	121	14265.120	25.31549	2.7	ppb
	Sb-KED2	123	11325.505	24.84509	3.4	ppb
	Ba-KED2	135	5206.284	24.49569	4.6	ppb
	Ba-KED2	137	9625.242	23.97807	3.3	ppb
>	Lu-KED2	175	79252.953			ppb
	Tl-KED2	203	67820.607	24.90485	2.2	ppb
	Tl-KED2	205	161774.162	24.95019	1.8	ppb
	Pb-KED2	208	197845.826	24.95888	2.3	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		128			
	Be-STD1	9	102				
	Mn-STD1	55	100				
	Cr-KED3	52	98				
	Cr-KED3	53	94				
	Co-KED3	59	99				
	Ni-KED3	60	98				
	Ni-KED3	62	96				
	Cu-KED3	63	99				
	Cu-KED3	65	99				
	Zn-KED3	66	98				
>	Ge-KED3	72		99			
>	Ge-KED2	72		101			
	As-KED2	75	98				
>	Ge-KED1	72		111			
	Se-KED1	77	103				
	Se-KED1	78	102				
	Mo-KED2	95	105				
	Mo-KED2	97	103				
	Mo-KED2	98	100				
	Ag-KED2	107	100				
	Ag-KED2	109	99				
	Cd-KED2	111	101				
	Cd-KED2	114	100				
>	In-KED2	115		94			
	Sb-KED2	121	101				
	Sb-KED2	123	99				
	Ba-KED2	135	98				
	Ba-KED2	137	96				
>	Lu-KED2	175		94			
	Tl-KED2	203	100				
	Tl-KED2	205	100				
	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li-STD1 6 Int Std for QC Std	Li-STD1	6	IS out of control

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 23:12:49
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.068
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	1067497.012			ppb
	Be-STD1	9	174020.547	25.43937	2.5	ppb
	Mn-STD1	55	757128.838	23.58513	6.7	ppb
	Cr-KED3	52	12438.756	23.90046	9.7	ppb
	Cr-KED3	53	1707.435	24.09423	1.6	ppb
	Co-KED3	59	33467.880	25.66560	3.2	ppb
	Ni-KED3	60	10113.916	24.67981	8.4	ppb
	Ni-KED3	62	1620.092	23.89052	7.6	ppb
	Cu-KED3	63	30490.579	24.59435	1.3	ppb
	Cu-KED3	65	15148.366	25.22805	3.4	ppb
	Zn-KED3	66	2318.188	23.85560	8.9	ppb
>	Ge-KED3	72	19754.336			ppb
>	Ge-KED2	72	65273.170			ppb
	As-KED2	75	3878.193	24.65585	2.0	ppb
>	Ge-KED1	72	376566.968			ppb
	Se-KED1	77	1833.451	25.30335	6.3	ppb
	Se-KED1	78	5184.980	25.61844	2.6	ppb
	Mo-KED2	95	22748.765	25.97072	3.8	ppb
	Mo-KED2	97	14199.053	25.26393	3.2	ppb
	Mo-KED2	98	37756.065	25.89122	4.3	ppb
	Ag-KED2	107	86219.117	25.31190	3.6	ppb
	Ag-KED2	109	81133.470	24.61330	2.7	ppb
	Cd-KED2	111	9102.233	25.57976	3.3	ppb
	Cd-KED2	114	21139.987	25.01833	3.0	ppb
>	In-KED2	115	20681.327			ppb
	Sb-KED2	121	14602.126	25.67565	3.0	ppb
	Sb-KED2	123	11473.491	24.93739	3.7	ppb
	Ba-KED2	135	5194.278	24.21893	1.7	ppb
	Ba-KED2	137	9763.673	24.07408	1.4	ppb
>	Lu-KED2	175	80151.253			ppb
	Tl-KED2	203	68517.924	24.87458	1.3	ppb
	Tl-KED2	205	164315.441	25.05199	0.7	ppb
	Pb-KED2	208	203400.987	25.36947	1.8	ppb

not needed.
MS 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		126			
	Be-STD1	9	102				
	Mn-STD1	55	94				
	Cr-KED3	52	96				
	Cr-KED3	53	96				
	Co-KED3	59	103				
	Ni-KED3	60	99				
	Ni-KED3	62	96				
	Cu-KED3	63	98				
	Cu-KED3	65	101				
	Zn-KED3	66	95				
>	Ge-KED3	72		98			
>	Ge-KED2	72		102			
	As-KED2	75	99				
>	Ge-KED1	72		109			
	Se-KED1	77	101				
	Se-KED1	78	102				
	Mo-KED2	95	104				
	Mo-KED2	97	101				
	Mo-KED2	98	104				
	Ag-KED2	107	101				
	Ag-KED2	109	98				
	Cd-KED2	111	102				
	Cd-KED2	114	100				
>	In-KED2	115		95			
	Sb-KED2	121	103				
	Sb-KED2	123	100				
	Ba-KED2	135	97				
	Ba-KED2	137	96				
>	Lu-KED2	175		95			
	Tl-KED2	203	99				
	Tl-KED2	205	100				
	Pb-KED2	208	101				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li-STD1 6 Int Std for QC Std	Li-STD1	6	IS out of control

8/25/15

Sample ID: CCV
Report Date/Time: Tuesday, August 25, 2015 09:22:41
Page 2

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 23:17:17
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.069
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	989824.293			ppb
	~~Be-STD1~~	~~9~~	~~26.000~~	~~0.00002~~	~~6589.8~~	~~ppb~~
	~~Mn-STD1~~	~~55~~	~~2176.166~~	~~0.02999~~	~~15.6~~	~~ppb~~
	Cr-KED3	52	21.000	-0.00372	217.7	ppb
	Cr-KED3	53	44.000	-0.24637	28.0	ppb
	Co-KED3	59	6.333	-0.00111	236.0	ppb
	Ni-KED3	60	8.000	0.00708	96.9	ppb
	Ni-KED3	62	1.333	0.01057	330.6	ppb
	Cu-KED3	63	36.000	-0.01690	36.2	ppb
	Cu-KED3	65	15.333	-0.01604	38.4	ppb
	Zn-KED3	66	16.667	0.00202	2218.1	ppb
>	Ge-KED3	72	19526.339			ppb
>	Ge-KED2	72	61655.832			ppb
	As-KED2	75	80.667	-0.02031	434.2	ppb
>	Ge-KED1	72	352060.696			ppb
	Se-KED1	77	320.670	-0.45029	49.3	ppb
	Se-KED1	78	8.848	-0.02042	82.9	ppb
	Mo-KED2	95	9.333	-0.01040	35.7	ppb
	Mo-KED2	97	12.667	0.00453	195.2	ppb
	Mo-KED2	98	14.228	-0.01277	50.2	ppb
	Ag-KED2	107	33.667	0.00618	62.2	ppb
	Ag-KED2	109	34.000	0.00587	46.0	ppb
	Cd-KED2	111	5.000	0.00338	241.1	ppb
	Cd-KED2	114	4.577	-0.00387	92.1	ppb
>	In-KED2	115	19615.903			ppb
	Sb-KED2	121	46.000	0.02461	115.8	ppb
	Sb-KED2	123	37.415	0.02146	41.9	ppb
	Ba-KED2	135	3.333	-0.02480	46.8	ppb
	Ba-KED2	137	4.000	-0.00584	137.0	ppb
>	Lu-KED2	175	78807.512			ppb
	Tl-KED2	203	16.000	0.00201	6.5	ppb
	Tl-KED2	205	41.667	0.00182	122.3	ppb
	Pb-KED2	208	39.333	-0.00068	121.0	ppb

8/25/15

Sample ID: CCB
Report Date/Time: Tuesday, August 25, 2015 09:22:43
Page 1

Service Request # K1509039 (Mn)
Calibration 082515A
QC in calibration 082515A
QC Service Request # K1509039
STARLIMS run # 459303

6020 ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control (+/-10%)	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control (+/-20%)	X		
7. Spike (+/-25%) and duplicate (<20%) in control	X	*X	
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control (70-125%)	X		
11. Interferences checked	X		
12. Se over MRL		X	
13. LLICV run (70-130%)	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB (+/-20%) in control	X		
16. Serial dilution run	X		
17. Post spike in control (+/-20%)	X		
18. Was run stop prematurely, If so why?		X	

Comments: * High RPD Mn

Primary Review By: m Date: 8/25/15
Secondary Review By: [signature] Date: 8/26/15

R:\icp\misc\data review forms\icpms review form

Dataset Report

User Name: ALKLS.ALKLSXP373
Computer Name: ALKLSXP373
Dataset File Path: C:\NexIONData\DataSet\082515A\
Report Date/Time: Tuesday, August 25, 2015 12:56:06

The Dataset

Sample ID	Date and Time	Read Type	Description	Batch ID	Samp. File Name
Rinse	10:27:06 Tue 25-Aug-15	Sample			C:\NexIONData\DataSet\082515A\Rinse.001
Rinse	10:34:39 Tue 25-Aug-15	Sample			C:\NexIONData\DataSet\082515A\Rinse.002
Blank	10:39:08 Tue 25-Aug-15	Blank			C:\NexIONData\DataSet\082515A\Blank.003
Standard 1	10:43:36 Tue 25-Aug-15	Standard #1			C:\NexIONData\DataSet\082515A\Standard 1
ICV	10:48:03 Tue 25-Aug-15	QC Std #1			C:\NexIONData\DataSet\082515A\ICV.005
CCV	10:52:32 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.006
ICB	10:57:00 Tue 25-Aug-15	QC Std #3			C:\NexIONData\DataSet\082515A\ICB.007
CCB	11:01:29 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.008
LLICVS	11:05:57 Tue 25-Aug-15	QC Std #5			C:\NexIONData\DataSet\082515A\LLICVS.00
ICSA	11:17:12 Tue 25-Aug-15	QC Std #7			C:\NexIONData\DataSet\082515A\ICSA.010
ICSAB	11:21:40 Tue 25-Aug-15	QC Std #8			C:\NexIONData\DataSet\082515A\ICSAB.011
KQ1509275-14	11:27:57 Tue 25-Aug-15	Sample	5		C:\NexIONData\DataSet\082515A\KQ150927
K1508581-001	11:32:25 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001D	11:36:53 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001L	11:41:21 Tue 25-Aug-15	Sample	250		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001A	11:45:49 Tue 25-Aug-15	Sample	50 +100ppb		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001S	11:50:17 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
KQ1509275-13	11:54:45 Tue 25-Aug-15	Sample	20		C:\NexIONData\DataSet\082515A\KQ150927
K1508581-002	11:59:13 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508970-001A	12:03:41 Tue 25-Aug-15	Sample	5 +200ppb		C:\NexIONData\DataSet\082515A\K1508970-
K1509039-001	12:08:09 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
CCV	12:12:40 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.022
CCB	12:17:08 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.023
K1509039-001D	12:21:39 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001L	12:26:06 Tue 25-Aug-15	Sample	250		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001A	12:30:34 Tue 25-Aug-15	Sample	50 +100ppb		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001S	12:35:02 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-002	12:39:30 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
CCV	12:44:00 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.029
CCB	12:48:28 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.030
LLCCVS	12:52:56 Tue 25-Aug-15	QC Std #6			C:\NexIONData\DataSet\082515A\LLCCVS.0

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\NexIONData\Wizard\SmartTune\CAS SmartTune Full FAST.swz

Optimization Status

Start Time: 8/25/2015 9:23:35 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\NexIONData\Method\CAS Tuning.mth.
MassCal File: C:\NexIONData\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.1 for Resolution
Peak height (%) for Res. Opt.: 5

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.744)
Target/Obtained mass (9.0122/9.075), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)
Target/Obtained mass (58.9332/58.975), Target/Obtained resolution (0.7/0.712)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.697)
Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.705)
Target/Obtained mass (208.98/208.975), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.709)

[Passed] Optimum value(s): N/A

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, August 25, 2015 09:31:42
Sample Description:
Method File: C:\NexIONData\Method\CAS Daily Performance.mth
Dataset File: C:\NexIONData\Dataset\Default\Daily Performance Check.1744
MassCal File: C:\NexIONData\MassCal\Default.tun
Conditions File: C:\NexIONData\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	51039.6	51039.566	830.127	1.6	Standard
	Be	9.0	12155.4	12155.438	302.389	2.5	Standard
	Mg	24.0	66418.0	66417.964	1451.050	2.2	Standard
	Co	58.9	51759.7	51759.663	1531.806	3.0	Standard
	In	114.9	95786.6	95786.609	866.016	0.9	Standard
	Pb	208.0	66349.1	66349.078	400.604	0.6	Standard
	Bi	209.0	56186.8	56186.826	761.996	1.4	Standard
	U	238.1	85011.4	85011.420	1000.593	1.2	Standard
⌈	CeO	155.9	1252.9	0.018	0.001	4.1	Standard
| >	Ce	139.9	70803.6	70803.568	558.243	0.8	Standard
⌊	Ce++	70.0	2518.0	0.036	0.001	3.7	Standard
	Bkgd	220.0	0.1	0.133	0.298	223.6	Standard

Replicates

Repeat 1

Analyte	Mass	Meas. Intensity
Li	7	50838.967
Be	9	11778.854
Mg	24	66806.511
Co	59	53568.247
In	115	95057.207
Pb	208	65659.846
Bi	209	55144.226
U	238	83532.172
CeO	156	1224.719
Ce	140	69982.328
Ce++	70	2618.907
Bkgd	220	0.000

Repeat 2

Analyte	Mass	Meas. Intensity
Li	7	51487.283
Be	9	12049.746
Mg	24	67990.075
Co	59	52646.831
In	115	96356.535
Pb	208	66498.583
Bi	209	56098.598
U	238	86237.508
CeO	156	1240.054
Ce	140	71394.624
Ce++	70	2436.208
Bkgd	220	0.000

Repeat 3

Analyte	Mass	Meas. Intensity
Li	7	50543.923
Be	9	12221.893
Mg	24	67464.258
Co	59	52252.721
In	115	96946.506

Pb	208	66645.367
Bi	209	56347.575
U	238	85524.575
CeO	156	1308.727
Ce	140	70510.918
Ce++	70	2487.550
Bkgd	220	0.000

Repeat 4

Analyte	Mass	Meas. Intensity
Li	7	50105.717
Be	9	12116.469
Mg	24	64611.115
Co	59	50177.970
In	115	95671.957
Pb	208	66587.252
Bi	209	56067.141
U	238	84791.558
CeO	156	1190.050
Ce	140	71050.247
Ce++	70	2463.546
Bkgd	220	0.667

Repeat 5

Analyte	Mass	Meas. Intensity
Li	7	52221.942
Be	9	12610.230
Mg	24	65217.862
Co	59	50152.547
In	115	94900.839
Pb	208	66354.340
Bi	209	57276.592
U	238	84971.288
CeO	156	1300.726
Ce	140	71079.726
Ce++	70	2583.567
Bkgd	220	0.000

Current Conditions File Data

Current Value	Description
0.84	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-11.50	Deflector Voltage
1600.00	ICP RF Power
-1675.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.50	Cell Rod Offset STD [CRO]
8.00	Discriminator Threshold
-3.50	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.84	DRC Mode NEB
-6.50	DRC Mode QRO
-1.50	DRC Mode CRO
-10.00	DRC Mode Cell Entrance/Exit Voltage
3.50	Cell Gas A
0.00	Cell Gas B
280.00	Axial Field Voltage
-15.00	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-40.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

LABWORKS - Summary Report

Sample ID: Blank
Sample Date/Time: Tuesday, August 25, 2015 10:39:08
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\Blank.003
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	950737.207			ppb
	Be-STD1	9	14.000			ppb
	Mn-STD1	55	2421.539			ppb
	Cr-KED3	52	24.000			ppb
	Cr-KED3	53	55.333			ppb
	Co-KED3	59	5.667			ppb
	Ni-KED3	60	6.667			ppb
	Ni-KED3	62	3.333			ppb
	Cu-KED3	63	13.333			ppb
	Cu-KED3	65	7.333			ppb
	Zn-KED3	66	13.667			ppb
>	Ge-KED3	72	19339.122			ppb
>	Ge-KED2	72	64674.781			ppb
	As-KED2	75	81.667			ppb
>	Ge-KED1	72	364948.710			ppb
	Se-KED1	77	330.671			ppb
	Se-KED1	78	9.888			ppb
	Mo-KED2	95	5.333			ppb
	Mo-KED2	97	5.333			ppb
	Mo-KED2	98	7.114			ppb
	Ag-KED2	107	7.667			ppb
	Ag-KED2	109	7.333			ppb
	Cd-KED2	111	2.667			ppb
	Cd-KED2	114	4.192			ppb
>	In-KED2	115	20129.424			ppb
	Sb-KED2	121	18.667			ppb
	Sb-KED2	123	19.373			ppb
	Ba-KED2	135	0.667			ppb
	Ba-KED2	137	3.000			ppb
>	Lu-KED2	175	79631.035			ppb
	Tl-KED2	203	6.667			ppb
	Tl-KED2	205	12.000			ppb
	Pb-KED2	208	19.333			ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6					
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72					
>	Ge-KED2	72					
	As-KED2	75					
>	Ge-KED1	72					
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115					
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175					
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: Standard 1
Sample Date/Time: Tuesday, August 25, 2015 10:43:36
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\Standard 1.004
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	921103.252			ppb
	Be-STD1	9	157916.793	25.00000	4.3	ppb
	Mn-STD1	55	661532.647	25.00000	0.7	ppb
	Cr-KED3	52	12889.819	25.00000	6.1	ppb
	Cr-KED3	53	1612.758	25.00000	5.4	ppb
	Co-KED3	59	33137.483	25.00000	3.8	ppb
	Ni-KED3	60	10073.219	25.00000	4.7	ppb
	Ni-KED3	62	1626.093	25.00000	7.1	ppb
	Cu-KED3	63	29705.533	25.00000	0.5	ppb
	Cu-KED3	65	15595.865	25.00000	5.5	ppb
	Zn-KED3	66	2305.186	25.00000	6.4	ppb
>	Ge-KED3	72	20631.894			ppb
>	Ge-KED2	72	66366.865			ppb
	As-KED2	75	3842.517	25.00000	3.9	ppb
>	Ge-KED1	72	375445.761			ppb
	Se-KED1	77	1785.445	25.00000	2.5	ppb
	Se-KED1	78	4776.181	25.00000	1.1	ppb
	Mo-KED2	95	21340.597	25.00000	2.4	ppb
	Mo-KED2	97	13859.388	25.00000	3.4	ppb
	Mo-KED2	98	35402.197	25.00000	1.3	ppb
	Ag-KED2	107	84869.356	25.00000	1.8	ppb
	Ag-KED2	109	81274.608	25.00000	3.9	ppb
	Cd-KED2	111	8940.130	25.00000	2.7	ppb
	Cd-KED2	114	21053.695	25.00000	0.8	ppb
>	In-KED2	115	20592.539			ppb
	Sb-KED2	121	13035.278	25.00000	1.7	ppb
	Sb-KED2	123	10376.630	25.00000	1.1	ppb
	Ba-KED2	135	4967.531	25.00000	1.1	ppb
	Ba-KED2	137	9364.735	25.00000	2.3	ppb
>	Lu-KED2	175	82408.383			ppb
	Tl-KED2	203	68207.106	25.00000	1.7	ppb
	Tl-KED2	205	159791.035	25.00000	1.4	ppb
	Pb-KED2	208	204967.872	25.00000	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6					
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72					
>	Ge-KED2	72					
	As-KED2	75					
>	Ge-KED1	72					
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115					
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175					
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICV
Sample Date/Time: Tuesday, August 25, 2015 10:48:03
Sample Description:
Autosampler Position: 3
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\ICV.005
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	926009.546			ppb
	Be-STD1	9	16187.838	2.54842	3.7	ppb
	Mn-STD1	55	640078.558	24.09335	5.7	ppb
	Cr-KED3	52	5076.904	9.84091	7.7	ppb
	Cr-KED3	53	718.685	10.63729	1.9	ppb
	Co-KED3	59	31629.694	23.94190	4.9	ppb
	Ni-KED3	60	9592.889	23.86204	4.3	ppb
	Ni-KED3	62	1631.427	25.13262	1.9	ppb
	Cu-KED3	63	15135.349	12.76563	1.1	ppb
	Cu-KED3	65	7320.877	11.76658	4.6	ppb
	Zn-KED3	66	2330.191	25.33016	8.6	ppb
>	Ge-KED3	72	20577.144			ppb
>	Ge-KED2	72	66679.591			ppb
	As-KED2	75	3850.853	24.91807	2.0	ppb
>	Ge-KED1	72	360767.750			ppb
	Se-KED1	77	1861.455	27.63239	3.0	ppb
	Se-KED1	78	4960.538	27.00703	3.2	ppb
	Mo-KED2	95	21870.070	25.83224	2.0	ppb
	Mo-KED2	97	14025.550	25.50653	1.2	ppb
	Mo-KED2	98	36842.238	26.23534	2.7	ppb
	Ag-KED2	107	42447.655	12.60676	1.2	ppb
	Ag-KED2	109	40590.252	12.58704	1.7	ppb
	Cd-KED2	111	4562.395	12.86122	2.6	ppb
	Cd-KED2	114	10712.281	12.82716	2.6	ppb
>	In-KED2	115	20416.838			ppb
	Sb-KED2	121	13661.198	26.42298	1.8	ppb
	Sb-KED2	123	10829.560	26.32085	0.8	ppb
	Ba-KED2	135	20867.899	105.94510	1.0	ppb
	Ba-KED2	137	38344.727	103.24308	0.2	ppb
>	Lu-KED2	175	82268.279			ppb
	Tl-KED2	203	68839.478	25.27552	1.7	ppb
	Tl-KED2	205	162835.610	25.51964	1.5	ppb
	Pb-KED2	208	204956.285	25.04386	2.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		97			
|	Be-STD1	9	102				
⌊	Mn-STD1	55	96				
⌈	Cr-KED3	52	98				
|	Cr-KED3	53	106				
|	Co-KED3	59	96				
|	Ni-KED3	60	95				
|	Ni-KED3	62	101				
|	Cu-KED3	63	102				
|	Cu-KED3	65	94				
|	Zn-KED3	66	101				
⌊>	Ge-KED3	72		106			
⌈>	Ge-KED2	72		103			
⌊	As-KED2	75	100				
⌈>	Ge-KED1	72		99			
|	Se-KED1	77	111				
⌊	Se-KED1	78	108				
⌈	Mo-KED2	95	103				
|	Mo-KED2	97	102				
|	Mo-KED2	98	105				
|	Ag-KED2	107	101				
|	Ag-KED2	109	101				
|	Cd-KED2	111	103				
|	Cd-KED2	114	103				
|>	In-KED2	115		101			
|	Sb-KED2	121	106				
|	Sb-KED2	123	105				
|	Ba-KED2	135	106				
⌊	Ba-KED2	137	103				
⌈>	Lu-KED2	175		103			
|	Tl-KED2	203	101				
|	Tl-KED2	205	102				
⌊	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Se-KED1	77	Out of Control

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 10:52:32
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCV.006
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	904808.766			ppb
	Be-STD1	9	152701.634	24.59728	2.4	ppb
	Mn-STD1	55	635953.725	24.47142	2.0	ppb
	Cr-KED3	52	12749.026	25.01183	4.1	ppb
	Cr-KED3	53	1640.094	25.75421	8.3	ppb
	Co-KED3	59	31199.737	23.84239	3.9	ppb
	Ni-KED3	60	9875.414	24.79571	2.3	ppb
	Ni-KED3	62	1629.426	25.34818	2.1	ppb
	Cu-KED3	63	29373.517	25.02797	2.9	ppb
	Cu-KED3	65	15091.312	24.49312	4.2	ppb
	Zn-KED3	66	2355.528	25.84400	5.6	ppb
>	Ge-KED3	72	20378.525			ppb
>	Ge-KED2	72	66238.245			ppb
	As-KED2	75	3748.158	24.41334	2.8	ppb
>	Ge-KED1	72	364920.853			ppb
	Se-KED1	77	1806.114	26.30964	2.7	ppb
	Se-KED1	78	4656.384	25.09998	1.6	ppb
	Mo-KED2	95	21227.098	25.05266	1.2	ppb
	Mo-KED2	97	13892.752	25.25110	2.4	ppb
	Mo-KED2	98	35535.855	25.29079	1.6	ppb
	Ag-KED2	107	84118.938	24.96974	1.6	ppb
	Ag-KED2	109	79675.912	24.69324	2.5	ppb
	Cd-KED2	111	8984.491	25.31323	0.6	ppb
	Cd-KED2	114	20724.502	24.80060	1.6	ppb
>	In-KED2	115	20434.622			ppb
	Sb-KED2	121	13059.300	25.24092	2.1	ppb
	Sb-KED2	123	10369.207	25.17825	1.1	ppb
	Ba-KED2	135	5070.233	25.72285	2.1	ppb
	Ba-KED2	137	9523.174	25.61987	2.8	ppb
>	Lu-KED2	175	82912.592			ppb
	Tl-KED2	203	68212.538	24.84541	2.4	ppb
	Tl-KED2	205	160210.053	24.91150	1.5	ppb
	Pb-KED2	208	203241.483	24.63650	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		95			
	Be-STD1	9	98				
	Mn-STD1	55	98				
	Cr-KED3	52	100				
	Cr-KED3	53	103				
	Co-KED3	59	95				
	Ni-KED3	60	99				
	Ni-KED3	62	101				
	Cu-KED3	63	100				
	Cu-KED3	65	98				
	Zn-KED3	66	103				
>	Ge-KED3	72		105			
>	Ge-KED2	72		102			
	As-KED2	75	98				
>	Ge-KED1	72		100			
	Se-KED1	77	105				
	Se-KED1	78	100				
	Mo-KED2	95	100				
	Mo-KED2	97	101				
	Mo-KED2	98	101				
	Ag-KED2	107	100				
	Ag-KED2	109	99				
	Cd-KED2	111	101				
	Cd-KED2	114	99				
>	In-KED2	115		102			
	Sb-KED2	121	101				
	Sb-KED2	123	101				
	Ba-KED2	135	103				
	Ba-KED2	137	102				
>	Lu-KED2	175		104			
	Tl-KED2	203	99				
	Tl-KED2	205	100				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICB
Sample Date/Time: Tuesday, August 25, 2015 10:57:00
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\ICB.007
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	902614.541			ppb
	Be-STD1	9	14.667	0.00023	436.0	ppb
	Mn-STD1	55	2261.513	-0.00146	324.9	ppb
	Cr-KED3	52	27.000	0.00392	114.2	ppb
	Cr-KED3	53	46.000	-0.19057	176.4	ppb
	Co-KED3	59	7.333	0.00109	100.1	ppb
	Ni-KED3	60	5.000	-0.00494	53.4	ppb
	Ni-KED3	62	2.000	-0.02333	135.5	ppb
	Cu-KED3	63	14.667	0.00071	1033.4	ppb
	Cu-KED3	65	9.667	0.00330	97.2	ppb
	Zn-KED3	66	13.000	-0.01330	602.8	ppb
>	Ge-KED3	72	20150.537			ppb
>	Ge-KED2	72	65530.625			ppb
	As-KED2	75	82.667	-0.00057	2073.3	ppb
>	Ge-KED1	72	361866.344			ppb
	Se-KED1	77	324.670	-0.07217	642.5	ppb
	Se-KED1	78	9.545	-0.00228	951.3	ppb
	Mo-KED2	95	9.333	0.00482	77.1	ppb
	Mo-KED2	97	6.667	0.00246	226.9	ppb
	Mo-KED2	98	14.895	0.00563	43.3	ppb
	Ag-KED2	107	33.667	0.00785	42.9	ppb
	Ag-KED2	109	34.333	0.00852	56.1	ppb
	Cd-KED2	111	3.333	0.00191	171.3	ppb
	Cd-KED2	114	4.389	0.00025	221.3	ppb
>	In-KED2	115	20101.647			ppb
	Sb-KED2	121	53.333	0.06827	15.0	ppb
	Sb-KED2	123	30.455	0.02751	54.4	ppb
	Ba-KED2	135	3.333	0.01379	114.3	ppb
	Ba-KED2	137	4.000	0.00275	100.0	ppb
>	Lu-KED2	175	81132.409			ppb
	Tl-KED2	203	13.333	0.00245	94.5	ppb
	Tl-KED2	205	27.667	0.00246	21.8	ppb
	Pb-KED2	208	30.000	0.00128	119.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		95			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		104			
>	Ge-KED2	72		101			
	As-KED2	75					
>	Ge-KED1	72		99			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		100			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		102			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Sb-KED2	121	Out of Control

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 11:01:29
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCB.008
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	852775.234			ppb
	Be-STD1	9	6.667	-0.00101	107.2	ppb
	Mn-STD1	55	2265.513	0.00384	83.9	ppb
	Cr-KED3	52	19.000	-0.01016	121.1	ppb
	Cr-KED3	53	47.333	-0.13699	57.3	ppb
	Co-KED3	59	8.000	0.00190	47.0	ppb
	Ni-KED3	60	3.667	-0.00798	49.0	ppb
	Ni-KED3	62	1.333	-0.03344	110.4	ppb
	Cu-KED3	63	8.000	-0.00478	64.7	ppb
	Cu-KED3	65	9.667	0.00425	256.9	ppb
	Zn-KED3	66	14.333	0.00827	142.2	ppb
>	Ge-KED3	72	19306.379			ppb
>	Ge-KED2	72	64682.840			ppb
	As-KED2	75	79.000	-0.01691	450.2	ppb
>	Ge-KED1	72	353778.360			ppb
	Se-KED1	77	305.337	-0.28290	72.3	ppb
	Se-KED1	78	13.555	0.02223	11.9	ppb
	Mo-KED2	95	5.333	0.00008	1706.3	ppb
	Mo-KED2	97	6.667	0.00260	216.8	ppb
	Mo-KED2	98	7.123	0.00006	6039.2	ppb
	Ag-KED2	107	13.333	0.00174	94.3	ppb
	Ag-KED2	109	13.333	0.00194	16.6	ppb
	Cd-KED2	111	4.667	0.00583	149.7	ppb
	Cd-KED2	114	4.643	0.00060	415.9	ppb
>	In-KED2	115	19886.812			ppb
	Sb-KED2	121	30.667	0.02431	40.8	ppb
	Sb-KED2	123	25.622	0.01625	65.4	ppb
	Ba-KED2	135	2.667	0.01037	230.5	ppb
	Ba-KED2	137	3.000	0.00006	11569.6	ppb
>	Lu-KED2	175	79657.837			ppb
	Tl-KED2	203	8.000	0.00051	154.7	ppb
	Tl-KED2	205	15.000	0.00049	93.5	ppb
	Pb-KED2	208	24.667	0.00068	113.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		90			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		100			
>	Ge-KED2	72		100			
	As-KED2	75					
>	Ge-KED1	72		97			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		99			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		100			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Tuesday, August 25, 2015 11:05:57
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\LLICVS.009
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	859163.123			ppb
	Be-STD1	9	250.669	0.04038	2.7	ppb
	Mn-STD1	55	5008.211	0.11466	4.4	ppb
	Cr-KED3	52	205.335	0.36515	14.4	ppb
	Cr-KED3	53	76.000	0.31508	62.0	ppb
	Co-KED3	59	59.667	0.04229	23.4	ppb
	Ni-KED3	60	162.668	0.40112	6.3	ppb
	Ni-KED3	62	32.667	0.46809	39.1	ppb
	Cu-KED3	63	264.669	0.21935	4.8	ppb
	Cu-KED3	65	130.001	0.20426	17.4	ppb
	Zn-KED3	66	103.667	1.01109	19.4	ppb
>	Ge-KED3	72	19886.177			ppb
>	Ge-KED2	72	62946.383			ppb
	As-KED2	75	248.002	1.18009	11.7	ppb
>	Ge-KED1	72	365670.671			ppb
	Se-KED1	77	450.007	2.10378	22.7	ppb
	Se-KED1	78	394.469	2.07708	7.1	ppb
	Mo-KED2	95	80.667	0.09077	27.2	ppb
	Mo-KED2	97	67.333	0.11495	8.5	ppb
	Mo-KED2	98	160.969	0.11149	16.5	ppb
	Ag-KED2	107	144.001	0.04126	6.1	ppb
	Ag-KED2	109	144.001	0.04316	1.6	ppb
	Cd-KED2	111	21.667	0.05458	16.6	ppb
	Cd-KED2	114	38.845	0.04225	11.3	ppb
>	In-KED2	115	20053.119			ppb
	Sb-KED2	121	84.667	0.13033	17.5	ppb
	Sb-KED2	123	60.706	0.10275	25.7	ppb
	Ba-KED2	135	23.333	0.11720	10.4	ppb
	Ba-KED2	137	45.667	0.11706	12.3	ppb
>	Lu-KED2	175	79677.928			ppb
	Tl-KED2	203	135.334	0.04875	7.6	ppb
	Tl-KED2	205	301.003	0.04676	2.6	ppb
	Pb-KED2	208	879.344	0.10847	5.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		90			
|	Be-STD1	9	101				
⌊	Mn-STD1	55	115				
⌈	Cr-KED3	52	91				
|	Cr-KED3	53	79				
|	Co-KED3	59	106				
|	Ni-KED3	60	100				
|	Ni-KED3	62	117				
|	Cu-KED3	63	110				
|	Cu-KED3	65	102				
|	Zn-KED3	66	101				
⌊>	Ge-KED3	72		103			
⌈>	Ge-KED2	72		97			
⌊	As-KED2	75	118				
⌈>	Ge-KED1	72		100			
|	Se-KED1	77	105				
⌊	Se-KED1	78	104				
⌈	Mo-KED2	95	91				
|	Mo-KED2	97	115				
|	Mo-KED2	98	111				
|	Ag-KED2	107	103				
|	Ag-KED2	109	108				
|	Cd-KED2	111	136				
|	Cd-KED2	114	106				
|>	In-KED2	115		100			
|	Sb-KED2	121	130				
|	Sb-KED2	123	103				
|	Ba-KED2	135	117				
⌊	Ba-KED2	137	117				
⌈>	Lu-KED2	175		100			
|	Tl-KED2	203	122				
|	Tl-KED2	205	117				
⌊	Pb-KED2	208	108				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Cd-KED2	111	Out of Control
QC Std 5	Sb-KED2	121	Out of Control

Rep. + Cd/114 ~~Sb/121~~ m 8/25/15

LABWORKS - Summary Report

Sample ID: ICSA
Sample Date/Time: Tuesday, August 25, 2015 11:17:12
Sample Description:
Autosampler Position: 5
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\ICSA.010
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	836987.760			ppb
	Be-STD1	9	76.000	0.01109	3.5	ppb
	Mn-STD1	55	38158.239	1.50345	1.4	ppb
	Cr-KED3	52	128.334	0.20471	24.5	ppb
	Cr-KED3	53	634.014	9.42546	3.3	ppb
	Co-KED3	59	349.338	0.26337	5.7	ppb
	Ni-KED3	60	131.667	0.31505	4.6	ppb
	Ni-KED3	62	33.333	0.46932	18.2	ppb
	Cu-KED3	63	400.672	0.33128	3.3	ppb
	Cu-KED3	65	198.001	0.31014	7.0	ppb
	Zn-KED3	66	51.333	0.41476	44.8	ppb
>	Ge-KED3	72	20283.736			ppb
>	Ge-KED2	72	62993.063			ppb
	As-KED2	75	96.667	0.12242	86.3	ppb
>	Ge-KED1	72	345707.842			ppb
	Se-KED1	77	392.672	1.46558	49.8	ppb
	Se-KED1	78	16.413	0.03936	45.7	ppb
	Mo-KED2	95	43702.088	53.36266	2.3	ppb
	Mo-KED2	97	28392.196	53.36554	1.3	ppb
	Mo-KED2	98	71013.337	52.27613	1.5	ppb
	Ag-KED2	107	95.667	0.02705	11.6	ppb
	Ag-KED2	109	97.334	0.02891	9.3	ppb
	Cd-KED2	111	34.000	0.09148	5.8	ppb
	Cd-KED2	114	85.613	0.10097	10.6	ppb
>	In-KED2	115	19758.114			ppb
	Sb-KED2	121	158.668	0.28052	15.3	ppb
	Sb-KED2	123	134.623	0.29123	13.7	ppb
	Ba-KED2	135	31.333	0.16047	55.2	ppb
	Ba-KED2	137	66.000	0.17550	18.1	ppb
>	Lu-KED2	175	80482.581			ppb
	Tl-KED2	203	9.333	0.00096	110.3	ppb
	Tl-KED2	205	30.000	0.00285	32.0	ppb
	Pb-KED2	208	605.338	0.07319	5.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		88			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		105			
⌈>	Ge-KED2	72		97			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		95			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95	107				
|	Mo-KED2	97	107				
|	Mo-KED2	98	105				
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		98			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		101			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICSAB
Sample Date/Time: Tuesday, August 25, 2015 11:21:40
Sample Description:
Autosampler Position: 6
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\ICSAB.011
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	817949.924			ppb
	Be-STD1	9	71.334	0.01057	21.5	ppb
	Mn-STD1	55	1297315.702	55.32368	1.3	ppb
	Cr-KED3	52	24079.653	51.43951	8.1	ppb
	Cr-KED3	53	3605.790	62.71928	4.7	ppb
	Co-KED3	59	57889.819	48.13572	7.4	ppb
	Ni-KED3	60	17499.060	47.81988	7.9	ppb
	Ni-KED3	62	2868.288	48.52925	3.9	ppb
	Cu-KED3	63	51903.575	48.04491	3.2	ppb
	Cu-KED3	65	25608.271	45.21429	5.6	ppb
	Zn-KED3	66	2007.808	23.92678	3.3	ppb
>	Ge-KED3	72	18765.996			ppb
>	Ge-KED2	72	61668.617			ppb
	As-KED2	75	3489.760	24.42821	3.5	ppb
>	Ge-KED1	72	339541.518			ppb
	Se-KED1	77	1712.770	26.88367	7.0	ppb
	Se-KED1	78	4340.041	25.15687	3.3	ppb
	Mo-KED2	95	41469.456	52.31334	0.7	ppb
	Mo-KED2	97	27251.311	52.94173	3.0	ppb
	Mo-KED2	98	70043.866	53.27511	1.0	ppb
	Ag-KED2	107	35398.805	11.22874	1.8	ppb
	Ag-KED2	109	33537.993	11.10809	3.2	ppb
	Cd-KED2	111	7801.130	23.48730	0.7	ppb
	Cd-KED2	114	18157.617	23.22329	1.9	ppb
>	In-KED2	115	19122.323			ppb
	Sb-KED2	121	148.667	0.27132	14.7	ppb
	Sb-KED2	123	105.497	0.22678	10.2	ppb
	Ba-KED2	135	33.333	0.17897	60.1	ppb
	Ba-KED2	137	62.333	0.17122	7.6	ppb
>	Lu-KED2	175	77554.955			ppb
	Tl-KED2	203	12.000	0.00215	131.8	ppb
	Tl-KED2	205	29.667	0.00299	26.9	ppb
	Pb-KED2	208	604.672	0.07591	4.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		86			
	Be-STD1	9					
	Mn-STD1	55	111				
	Cr-KED3	52	103				
	Cr-KED3	53	125				
	Co-KED3	59	96				
	Ni-KED3	60	96				
	Ni-KED3	62	97				
	Cu-KED3	63	96				
	Cu-KED3	65	90				
	Zn-KED3	66	96				
>	Ge-KED3	72		97			
>	Ge-KED2	72		95			
	As-KED2	75	98				
>	Ge-KED1	72		93			
	Se-KED1	77	108				
	Se-KED1	78	101				
	Mo-KED2	95	105				
	Mo-KED2	97	106				
	Mo-KED2	98	107				
	Ag-KED2	107	90				
	Ag-KED2	109	89				
	Cd-KED2	111	94				
	Cd-KED2	114	93				
>	In-KED2	115		95			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		97			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: KQ1509275-14
Sample Date/Time: Tuesday, August 25, 2015 11:27:57
Sample Description: 5
Autosampler Position: 301
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\KQ1509275-14.012
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	890914.469			ppb
	Be-STD1	9	9.333	-0.00059	200.1	ppb
	Mn-STD1	55	1976.804	-0.01152	34.3	ppb
	Cr-KED3	52	106.000	0.15132	18.4	ppb
	Cr-KED3	53	33.333	-0.42420	33.9	ppb
	Co-KED3	59	7.667	0.00102	251.8	ppb
	Ni-KED3	60	26.667	0.04671	18.8	ppb
	Ni-KED3	62	6.667	0.04598	80.5	ppb
	Cu-KED3	63	43.333	0.02355	7.6	ppb
	Cu-KED3	65	21.000	0.02041	41.9	ppb
	Zn-KED3	66	27.667	0.13516	10.9	ppb
>	Ge-KED3	72	21179.698			ppb
>	Ge-KED2	72	67982.719			ppb
	As-KED2	75	61.667	-0.15699	30.2	ppb
>	Ge-KED1	72	389440.448			ppb
	Se-KED1	77	297.336	-0.94044	27.2	ppb
	Se-KED1	78	8.838	-0.00934	153.4	ppb
	Mo-KED2	95	22.000	0.01860	24.0	ppb
	Mo-KED2	97	14.667	0.01578	32.4	ppb
	Mo-KED2	98	32.082	0.01680	25.3	ppb
	Ag-KED2	107	16.667	0.00246	49.4	ppb
	Ag-KED2	109	18.333	0.00315	45.5	ppb
	Cd-KED2	111	5.667	0.00770	51.6	ppb
	Cd-KED2	114	3.765	-0.00073	1585.7	ppb
>	In-KED2	115	21235.975			ppb
	Sb-KED2	121	7.333	-0.02304	18.0	ppb
	Sb-KED2	123	9.748	-0.02510	47.4	ppb
	Ba-KED2	135	4.000	0.01591	121.4	ppb
	Ba-KED2	137	8.333	0.01341	41.0	ppb
>	Lu-KED2	175	81471.687			ppb
	Tl-KED2	203	4.000	-0.00104	73.3	ppb
	Tl-KED2	205	7.000	-0.00083	20.8	ppb
	Pb-KED2	208	59.333	0.00488	29.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		94			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		105			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		102			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001
Sample Date/Time: Tuesday, August 25, 2015 11:32:25
Sample Description: 50
Autosampler Position: 302
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001.013
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	948849.085			ppb
	Be-STD1	9	708.018	0.10665	9.5	ppb
	Mn-STD1	55	25497030.246	939.26945	3.2	ppb
	Cr-KED3	52	17601.516	33.02516	4.8	ppb
	Cr-KED3	53	2358.195	35.74486	5.8	ppb
	Co-KED3	59	3977.221	2.90065	2.3	ppb
	Ni-KED3	60	2405.203	5.75870	3.0	ppb
	Ni-KED3	62	403.339	5.95471	1.2	ppb
	Cu-KED3	63	11185.045	9.10002	2.1	ppb
	Cu-KED3	65	5695.472	8.82744	6.4	ppb
	Zn-KED3	66	3517.434	36.95358	5.5	ppb
>	Ge-KED3	72	21323.236			ppb
>	Ge-KED2	72	69928.462			ppb
	As-KED2	75	255.002	1.05299	8.2	ppb
>	Ge-KED1	72	405204.503			ppb
	Se-KED1	77	338.004	-0.48699	109.7	ppb
	Se-KED1	78	18.019	0.03406	25.2	ppb
	Mo-KED2	95	559.344	0.64047	4.6	ppb
	Mo-KED2	97	399.339	0.70120	3.0	ppb
	Mo-KED2	98	967.741	0.66910	3.3	ppb
	Ag-KED2	107	62.333	0.01580	7.5	ppb
	Ag-KED2	109	49.000	0.01256	4.3	ppb
	Cd-KED2	111	52.000	0.13575	14.4	ppb
	Cd-KED2	114	138.026	0.15675	4.6	ppb
>	In-KED2	115	20867.291			ppb
	Sb-KED2	121	54.667	0.06695	4.0	ppb
	Sb-KED2	123	43.748	0.05648	18.7	ppb
	Ba-KED2	135	8511.204	42.28657	4.1	ppb
	Ba-KED2	137	15893.839	41.88284	3.8	ppb
>	Lu-KED2	175	83990.850			ppb
	Tl-KED2	203	52.667	0.01641	13.6	ppb
	Tl-KED2	205	115.334	0.01576	15.6	ppb
	Pb-KED2	208	46139.247	5.51893	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		108			
	As-KED2	75					
>	Ge-KED1	72		111			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		104			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		105			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001D
Sample Date/Time: Tuesday, August 25, 2015 11:36:53
Sample Description: 50
Autosampler Position: 303
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1508581-001D.014
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	948856.047			ppb
	Be-STD1	9	580.679	0.08708	11.9	ppb
	Mn-STD1	55	14938462.862	549.81414	2.9	ppb
	Cr-KED3	52	15353.921	28.52903	7.0	ppb
	Cr-KED3	53	2097.488	31.30515	1.6	ppb
	Co-KED3	59	4247.634	3.06754	9.0	ppb
	Ni-KED3	60	2314.854	5.48917	6.1	ppb
	Ni-KED3	62	362.005	5.29866	12.8	ppb
	Cu-KED3	63	8490.527	6.82851	2.9	ppb
	Cu-KED3	65	4474.035	6.86130	6.5	ppb
	Zn-KED3	66	3113.673	32.36894	6.1	ppb
>	Ge-KED3	72	21563.618			ppb
>	Ge-KED2	72	70660.028			ppb
	As-KED2	75	348.338	1.61905	7.0	ppb
>	Ge-KED1	72	400937.285			ppb
	Se-KED1	77	370.005	0.09771	319.9	ppb
	Se-KED1	78	13.958	0.01496	35.6	ppb
	Mo-KED2	95	607.346	0.68323	5.5	ppb
	Mo-KED2	97	389.339	0.66951	10.1	ppb
	Mo-KED2	98	989.523	0.67206	1.4	ppb
	Ag-KED2	107	63.667	0.01586	5.9	ppb
	Ag-KED2	109	65.333	0.01715	10.8	ppb
	Cd-KED2	111	44.000	0.11154	8.5	ppb
	Cd-KED2	114	88.220	0.09664	14.2	ppb
>	In-KED2	115	21254.003			ppb
	Sb-KED2	121	48.000	0.05295	58.0	ppb
	Sb-KED2	123	43.124	0.05288	15.7	ppb
	Ba-KED2	135	5279.643	25.77219	6.1	ppb
	Ba-KED2	137	10030.187	25.94704	2.5	ppb
>	Lu-KED2	175	85366.997			ppb
	Tl-KED2	203	38.000	0.01093	24.6	ppb
	Tl-KED2	205	101.000	0.01331	3.0	ppb
	Pb-KED2	208	44502.540	5.23790	2.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		112			
>	Ge-KED2	72		109			
	As-KED2	75					
>	Ge-KED1	72		110			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		106			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		107			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001L
Sample Date/Time: Tuesday, August 25, 2015 11:41:21
Sample Description: 250
Autosampler Position: 304
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001L.015
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	928057.209			ppb
	Be-STD1	9	132.667	0.01870	5.4	ppb
	Mn-STD1	55	5001278.641	188.12452	1.1	ppb
	Cr-KED3	52	3444.082	6.44145	6.0	ppb
	Cr-KED3	53	488.008	6.66907	7.5	ppb
	Co-KED3	59	822.690	0.59658	5.4	ppb
	Ni-KED3	60	492.008	1.16610	3.7	ppb
	Ni-KED3	62	82.667	1.18440	20.3	ppb
	Cu-KED3	63	2287.517	1.85629	6.4	ppb
	Cu-KED3	65	1170.048	1.80654	1.9	ppb
	Zn-KED3	66	739.686	7.68501	13.2	ppb
>	Ge-KED3	72	21285.530			ppb
>	Ge-KED2	72	71296.522			ppb
	As-KED2	75	107.334	0.10705	36.0	ppb
>	Ge-KED1	72	397187.610			ppb
	Se-KED1	77	323.337	-0.63376	117.9	ppb
	Se-KED1	78	10.110	-0.00391	698.2	ppb
	Mo-KED2	95	122.667	0.13017	6.5	ppb
	Mo-KED2	97	85.334	0.13649	1.9	ppb
	Mo-KED2	98	203.490	0.13149	11.6	ppb
	Ag-KED2	107	20.333	0.00340	55.6	ppb
	Ag-KED2	109	16.000	0.00238	44.8	ppb
	Cd-KED2	111	17.000	0.03754	31.8	ppb
	Cd-KED2	114	24.467	0.02258	37.7	ppb
>	In-KED2	115	21658.743			ppb
	Sb-KED2	121	32.667	0.02307	83.7	ppb
	Sb-KED2	123	20.538	-0.00069	441.8	ppb
	Ba-KED2	135	1702.768	8.14855	4.0	ppb
	Ba-KED2	137	3207.027	8.13149	1.8	ppb
>	Lu-KED2	175	83998.906			ppb
	Tl-KED2	203	12.667	0.00204	109.4	ppb
	Tl-KED2	205	26.333	0.00210	52.5	ppb
	Pb-KED2	208	9448.539	1.12821	1.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		110			
⌈>	Ge-KED2	72		110			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		109			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		108			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		105			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001A
Sample Date/Time: Tuesday, August 25, 2015 11:45:49
Sample Description: 50 +100ppb
Autosampler Position: 305
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001A.016
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	945304.224			ppb
	Be-STD1	9	650659.066	100.34000	2.5	ppb
	Mn-STD1	55	28297059.142	1045.41410	3.6	ppb
	Cr-KED3	52	71039.242	132.02110	4.0	ppb
	Cr-KED3	53	9150.267	139.91084	5.9	ppb
	Co-KED3	59	139527.023	100.80118	1.4	ppb
	Ni-KED3	60	44003.123	104.48116	4.5	ppb
	Ni-KED3	62	7171.135	105.68634	5.6	ppb
	Cu-KED3	63	134526.785	108.39685	2.8	ppb
	Cu-KED3	65	68794.458	105.56692	2.8	ppb
	Zn-KED3	66	13495.038	140.69982	3.3	ppb
>	Ge-KED3	72	21559.594			ppb
>	Ge-KED2	72	70793.651			ppb
	As-KED2	75	15658.577	97.02597	1.4	ppb
>	Ge-KED1	72	392368.215			ppb
	Se-KED1	77	6908.339	108.65099	2.5	ppb
	Se-KED1	78	20278.647	101.85468	2.8	ppb
	Mo-KED2	95	88858.870	99.29769	0.6	ppb
	Mo-KED2	97	56685.580	97.54091	1.4	ppb
	Mo-KED2	98	145072.616	97.76017	2.7	ppb
	Ag-KED2	107	77.334	0.01943	5.2	ppb
	Ag-KED2	109	66.667	0.01723	20.4	ppb
	Cd-KED2	111	36057.114	96.18974	1.1	ppb
	Cd-KED2	114	84911.251	96.20676	2.2	ppb
>	In-KED2	115	21587.011			ppb
	Sb-KED2	121	55770.006	102.13674	1.9	ppb
	Sb-KED2	123	43795.654	100.81594	1.2	ppb
	Ba-KED2	135	29487.083	141.63758	4.0	ppb
	Ba-KED2	137	54779.852	139.52772	2.7	ppb
>	Lu-KED2	175	84978.709			ppb
	Tl-KED2	203	262515.640	93.30288	0.4	ppb
	Tl-KED2	205	624812.540	94.79968	1.5	ppb
	Pb-KED2	208	826789.741	97.80263	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		111			
>	Ge-KED2	72		109			
	As-KED2	75					
>	Ge-KED1	72		108			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		107			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		107			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001S
Sample Date/Time: Tuesday, August 25, 2015 11:50:17
Sample Description: 50
Autosampler Position: 306
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001S.017
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	943983.342			ppb
	Be-STD1	9	13997.527	2.15916	2.2	ppb
	Mn-STD1	55	15676375.199	580.18512	4.5	ppb
	Cr-KED3	52	26543.978	49.13185	5.8	ppb
	Cr-KED3	53	3406.407	51.24859	3.9	ppb
	Co-KED3	59	32443.187	23.32773	0.2	ppb
	Ni-KED3	60	11114.664	26.33403	9.5	ppb
	Ni-KED3	62	1830.118	26.79992	5.1	ppb
	Cu-KED3	63	24711.411	19.79879	1.8	ppb
	Cu-KED3	65	12765.707	19.52110	5.8	ppb
	Zn-KED3	66	4787.136	49.64414	6.4	ppb
>	Ge-KED3	72	21657.761			ppb
>	Ge-KED2	72	71397.001			ppb
	As-KED2	75	3531.770	21.26996	2.1	ppb
>	Ge-KED1	72	391114.501			ppb
	Se-KED1	77	1616.092	20.93539	5.1	ppb
	Se-KED1	78	4162.342	20.92402	2.0	ppb
	Mo-KED2	95	18799.696	20.74072	1.1	ppb
	Mo-KED2	97	12078.439	20.51587	2.5	ppb
	Mo-KED2	98	30890.792	20.54824	2.6	ppb
	Ag-KED2	107	7073.418	1.96039	1.8	ppb
	Ag-KED2	109	6712.911	1.94229	2.6	ppb
	Cd-KED2	111	810.023	2.12598	3.6	ppb
	Cd-KED2	114	1857.363	2.07293	2.3	ppb
>	In-KED2	115	21860.177			ppb
	Sb-KED2	121	5152.929	9.28556	1.6	ppb
	Sb-KED2	123	4138.847	9.36435	0.8	ppb
	Ba-KED2	135	14341.195	68.00217	0.9	ppb
	Ba-KED2	137	26893.293	67.62985	1.8	ppb
>	Lu-KED2	175	85336.798			ppb
	Tl-KED2	203	55644.836	19.69133	0.6	ppb
	Tl-KED2	205	130142.790	19.66017	1.1	ppb
	Pb-KED2	208	206244.079	24.29058	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		112			
>	Ge-KED2	72		110			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		109			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		107			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-13
Sample Date/Time: Tuesday, August 25, 2015 11:54:45
Sample Description: 20
Autosampler Position: 307
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\KQ1509275-13.018
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	970293.807			ppb
	Be-STD1	9	249913.424	37.54886	1.8	ppb
	Mn-STD1	55	4663195.330	167.80227	2.6	ppb
	Cr-KED3	52	37545.972	71.17562	5.9	ppb
	Cr-KED3	53	4792.805	74.36603	8.0	ppb
	Co-KED3	59	91777.110	67.64852	4.3	ppb
	Ni-KED3	60	32457.233	78.74014	8.7	ppb
	Ni-KED3	62	5258.301	79.03518	5.0	ppb
	Cu-KED3	63	64510.874	53.00880	4.5	ppb
	Cu-KED3	65	33407.391	52.28727	2.9	ppb
	Zn-KED3	66	7586.683	80.62677	5.6	ppb
>	Ge-KED3	72	21150.335			ppb
>	Ge-KED2	72	68799.947			ppb
	As-KED2	75	8066.277	51.16114	1.4	ppb
>	Ge-KED1	72	381851.257			ppb
	Se-KED1	77	5280.976	84.10090	3.6	ppb
	Se-KED1	78	15497.694	79.96636	2.6	ppb
	Mo-KED2	95	61767.296	72.39716	4.4	ppb
	Mo-KED2	97	39467.113	71.21717	3.4	ppb
	Mo-KED2	98	102306.691	72.29453	3.9	ppb
	Ag-KED2	107	72410.408	21.33203	2.7	ppb
	Ag-KED2	109	69815.515	21.47302	2.8	ppb
	Cd-KED2	111	34169.488	95.57852	2.8	ppb
	Cd-KED2	114	80157.857	95.23312	3.2	ppb
>	In-KED2	115	20595.232			ppb
	Sb-KED2	121	20766.421	39.85678	3.4	ppb
	Sb-KED2	123	16250.612	39.20467	3.9	ppb
	Ba-KED2	135	33206.551	167.23356	3.4	ppb
	Ba-KED2	137	62100.037	165.83486	2.9	ppb
>	Lu-KED2	175	83364.876			ppb
	Tl-KED2	203	252740.843	91.56670	0.7	ppb
	Tl-KED2	205	597769.777	92.44446	0.9	ppb
	Pb-KED2	208	487206.554	58.73881	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9	94				
	Mn-STD1	55	104				
	Cr-KED3	52	105				
	Cr-KED3	53	109				
	Co-KED3	59	106				
	Ni-KED3	60	103				
	Ni-KED3	62	103				
	Cu-KED3	63	104				
	Cu-KED3	65	103				
	Zn-KED3	66	100				
>	Ge-KED3	72		109			
>	Ge-KED2	72		106			
	As-KED2	75	103				
>	Ge-KED1	72		105			
	Se-KED1	77	112				
	Se-KED1	78	107				
	Mo-KED2	95	109				
	Mo-KED2	97	107				
	Mo-KED2	98	109				
	Ag-KED2	107	106				
	Ag-KED2	109	106				
	Cd-KED2	111	105				
	Cd-KED2	114	105				
>	In-KED2	115		102			
	Sb-KED2	121	90				
	Sb-KED2	123	89				
	Ba-KED2	135	108				
	Ba-KED2	137	107				
>	Lu-KED2	175		105			
	Tl-KED2	203	105				
	Tl-KED2	205	106				
	Pb-KED2	208	102				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-002
Sample Date/Time: Tuesday, August 25, 2015 11:59:13
Sample Description: 50
Autosampler Position: 308
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-002.019
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	934130.863			ppb
	Be-STD1	9	706.017	0.10802	1.7	ppb
	Mn-STD1	55	28757265.078	1076.06800	4.0	ppb
	Cr-KED3	52	18384.827	33.84057	4.4	ppb
	Cr-KED3	53	2676.251	39.89990	4.9	ppb
	Co-KED3	59	4830.484	3.45554	4.3	ppb
	Ni-KED3	60	3396.404	7.98647	5.5	ppb
	Ni-KED3	62	544.010	7.89405	5.4	ppb
	Cu-KED3	63	24451.595	19.51690	1.7	ppb
	Cu-KED3	65	12300.295	18.71374	3.4	ppb
	Zn-KED3	66	57744.986	597.66709	6.7	ppb
>	Ge-KED3	72	21745.543			ppb
>	Ge-KED2	72	67903.411			ppb
	As-KED2	75	332.004	1.60081	10.7	ppb
>	Ge-KED1	72	390769.609			ppb
	Se-KED1	77	334.004	-0.33961	68.2	ppb
	Se-KED1	78	17.362	0.03553	99.7	ppb
	Mo-KED2	95	923.363	1.04066	2.4	ppb
	Mo-KED2	97	579.345	1.00168	4.3	ppb
	Mo-KED2	98	1530.977	1.04151	3.6	ppb
	Ag-KED2	107	969.700	0.27414	4.8	ppb
	Ag-KED2	109	943.031	0.27836	4.0	ppb
	Cd-KED2	111	618.680	1.66709	1.1	ppb
	Cd-KED2	114	1466.348	1.68050	2.8	ppb
>	In-KED2	115	21273.981			ppb
	Sb-KED2	121	484.008	0.86307	6.8	ppb
	Sb-KED2	123	400.712	0.88844	5.5	ppb
	Ba-KED2	135	6017.267	29.31666	1.8	ppb
	Ba-KED2	137	11540.996	29.81670	3.1	ppb
>	Lu-KED2	175	83762.182			ppb
	Tl-KED2	203	119.334	0.04048	16.4	ppb
	Tl-KED2	205	274.003	0.04023	6.5	ppb
	Pb-KED2	208	1128810.871	135.45109	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		112			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		106			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		105			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001A
Sample Date/Time: Tuesday, August 25, 2015 12:03:41
Sample Description: 5 +200ppb
Autosampler Position: 309
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508970-001A.020
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	963624.223			ppb
	Be-STD1	9	1020599.260	154.44540	4.4	ppb
	Mn-STD1	55	56480314.283	2047.34043	2.0	ppb
	Cr-KED3	52	211275.184	462.43083	2.8	ppb
	Cr-KED3	53	29614.810	535.23876	6.4	ppb
	Co-KED3	59	310832.607	264.45082	1.3	ppb
	Ni-KED3	60	168381.964	471.39801	5.1	ppb
	Ni-KED3	62	27747.676	481.31903	5.7	ppb
	Cu-KED3	63	434665.343	412.33827	2.8	ppb
	Cu-KED3	65	216389.985	391.46401	4.2	ppb
	Zn-KED3	66	50224.197	617.33806	4.7	ppb
>	Ge-KED3	72	18306.060			ppb
>	Ge-KED2	72	56995.482			ppb
	As-KED2	75	31731.879	245.04741	1.4	ppb
>	Ge-KED1	72	308083.994			ppb
	Se-KED1	77	10523.888	216.18354	0.8	ppb
	Se-KED1	78	31967.130	204.48192	2.5	ppb
	Mo-KED2	95	155034.725	206.89167	0.9	ppb
	Mo-KED2	97	99167.022	203.76720	1.5	ppb
	Mo-KED2	98	255663.423	205.69596	1.3	ppb
	Ag-KED2	107	2903.628	0.97189	1.5	ppb
	Ag-KED2	109	2702.923	0.94446	3.7	ppb
	Cd-KED2	111	57995.175	184.72477	1.0	ppb
	Cd-KED2	114	135305.996	183.05048	1.6	ppb
>	In-KED2	115	18077.969			ppb
	Sb-KED2	121	93584.353	204.65959	2.0	ppb
	Sb-KED2	123	72860.713	200.31677	1.3	ppb
	Ba-KED2	135	76534.536	438.81982	1.6	ppb
	Ba-KED2	137	144450.689	439.31108	1.7	ppb
>	Lu-KED2	175	77738.289			ppb
	Tl-KED2	203	461845.352	179.45320	1.9	ppb
	Tl-KED2	205	1093293.322	181.31961	0.7	ppb
	Pb-KED2	208	2177468.669	281.54684	1.3	ppb

98.5% C-PDS

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		95			
>	Ge-KED2	72		88			
	As-KED2	75					
>	Ge-KED1	72		84			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		90			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		98			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001
Sample Date/Time: Tuesday, August 25, 2015 12:08:09
Sample Description: 50
Autosampler Position: 310
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-001.021
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	942205.604			ppb
	Be-STD1	9	934.697	0.14254	5.7	ppb
	Mn-STD1	55	55036115.312	2040.44704	2.5	ppb
	Cr-KED3	52	27409.289	51.87643	3.4	ppb
	Cr-KED3	53	3769.164	58.16871	3.7	ppb
	Co-KED3	59	4103.256	3.01821	4.0	ppb
	Ni-KED3	60	2676.584	6.46399	3.3	ppb
	Ni-KED3	62	478.008	7.12634	2.3	ppb
	Cu-KED3	63	15525.106	12.74042	3.3	ppb
	Cu-KED3	65	7674.395	11.99905	2.4	ppb
	Zn-KED3	66	3817.177	40.44254	2.5	ppb
>	Ge-KED3	72	21146.640			ppb
>	Ge-KED2	72	66141.152			ppb
	As-KED2	75	385.672	2.01686	6.0	ppb
>	Ge-KED1	72	392314.916			ppb
	Se-KED1	77	342.671	-0.22575	369.5	ppb
	Se-KED1	78	19.342	0.04402	53.8	ppb
	Mo-KED2	95	1332.729	1.58281	2.7	ppb
	Mo-KED2	97	837.358	1.52827	1.5	ppb
	Mo-KED2	98	2291.746	1.64318	2.3	ppb
	Ag-KED2	107	111.667	0.03119	10.9	ppb
	Ag-KED2	109	96.667	0.02793	8.2	ppb
	Cd-KED2	111	64.000	0.17562	56.9	ppb
	Cd-KED2	114	160.144	0.18997	56.0	ppb
>	In-KED2	115	20223.664			ppb
	Sb-KED2	121	153.334	0.26420	34.0	ppb
	Sb-KED2	123	120.332	0.24893	33.0	ppb
	Ba-KED2	135	10800.083	55.36539	3.2	ppb
	Ba-KED2	137	20440.284	55.55735	0.5	ppb
>	Lu-KED2	175	82404.329			ppb
	Tl-KED2	203	178.668	0.06291	43.6	ppb
	Tl-KED2	205	407.673	0.06176	48.4	ppb
	Pb-KED2	208	73411.412	8.95149	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		102			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		100			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 12:12:40
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCV.022
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	931580.561			ppb
	Be-STD1	9	153353.552	24.00743	3.4	ppb
	Mn-STD1	55	692769.934	25.90008	4.7	ppb
	Cr-KED3	52	12777.052	24.34779	7.0	ppb
	Cr-KED3	53	1748.107	26.66274	2.6	ppb
	Co-KED3	59	32559.731	24.15040	2.9	ppb
	Ni-KED3	60	10103.248	24.64868	9.1	ppb
	Ni-KED3	62	1646.762	24.86150	5.3	ppb
	Cu-KED3	63	29855.885	24.66814	2.5	ppb
	Cu-KED3	65	14689.557	23.15735	6.7	ppb
	Zn-KED3	66	2376.864	25.30781	3.6	ppb
>	Ge-KED3	72	21007.109			ppb
>	Ge-KED2	72	67279.088			ppb
	As-KED2	75	3779.834	24.22110	2.6	ppb
>	Ge-KED1	72	377772.255			ppb
	Se-KED1	77	1838.119	25.76663	8.2	ppb
	Se-KED1	78	4795.438	25.01973	5.9	ppb
	Mo-KED2	95	21920.808	25.60222	1.7	ppb
	Mo-KED2	97	13829.360	24.86149	0.4	ppb
	Mo-KED2	98	35356.979	24.89466	0.8	ppb
	Ag-KED2	107	83247.244	24.44609	1.2	ppb
	Ag-KED2	109	79145.470	24.26794	4.0	ppb
	Cd-KED2	111	8815.386	24.57279	0.6	ppb
	Cd-KED2	114	20598.502	24.38695	0.8	ppb
>	In-KED2	115	20654.367			ppb
	Sb-KED2	121	13430.314	25.67951	2.4	ppb
	Sb-KED2	123	10191.077	24.48214	0.7	ppb
	Ba-KED2	135	4948.857	24.83476	1.7	ppb
	Ba-KED2	137	9407.098	25.03199	1.6	ppb
>	Lu-KED2	175	81786.204			ppb
	Tl-KED2	203	66278.158	24.47153	1.4	ppb
	Tl-KED2	205	157357.694	24.80842	1.8	ppb
	Pb-KED2	208	198622.519	24.40989	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9	96				
	Mn-STD1	55	104				
	Cr-KED3	52	97				
	Cr-KED3	53	107				
	Co-KED3	59	97				
	Ni-KED3	60	99				
	Ni-KED3	62	99				
	Cu-KED3	63	99				
	Cu-KED3	65	93				
	Zn-KED3	66	101				
>	Ge-KED3	72		109			
>	Ge-KED2	72		104			
	As-KED2	75	97				
>	Ge-KED1	72		104			
	Se-KED1	77	103				
	Se-KED1	78	100				
	Mo-KED2	95	102				
	Mo-KED2	97	99				
	Mo-KED2	98	100				
	Ag-KED2	107	98				
	Ag-KED2	109	97				
	Cd-KED2	111	98				
	Cd-KED2	114	98				
>	In-KED2	115		103			
	Sb-KED2	121	103				
	Sb-KED2	123	98				
	Ba-KED2	135	99				
	Ba-KED2	137	100				
>	Lu-KED2	175		103			
	Tl-KED2	203	98				
	Tl-KED2	205	99				
	Pb-KED2	208	98				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 12:17:08
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCB.023
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	889661.449			ppb
	Be-STD1	9	13.333	0.00003	2445.2	ppb
	Mn-STD1	55	2152.163	-0.00452	99.0	ppb
	Cr-KED3	52	20.000	-0.00915	75.1	ppb
	Cr-KED3	53	45.333	-0.18720	102.1	ppb
	Co-KED3	59	5.667	-0.00008	2714.4	ppb
	Ni-KED3	60	4.667	-0.00553	30.8	ppb
	Ni-KED3	62	3.333	-0.00075	6561.6	ppb
	Cu-KED3	63	19.333	0.00495	156.6	ppb
	Cu-KED3	65	10.000	0.00431	150.4	ppb
	Zn-KED3	66	16.333	0.02672	166.6	ppb
>	Ge-KED3	72	19749.313			ppb
>	Ge-KED2	72	64279.960			ppb
	As-KED2	75	71.334	-0.06745	43.9	ppb
>	Ge-KED1	72	357579.591			ppb
	Se-KED1	77	272.669	-0.94710	35.7	ppb
	Se-KED1	78	8.464	-0.00666	98.1	ppb
	Mo-KED2	95	13.333	0.00981	38.4	ppb
	Mo-KED2	97	7.333	0.00388	148.7	ppb
	Mo-KED2	98	20.530	0.00990	20.2	ppb
	Ag-KED2	107	37.333	0.00906	47.9	ppb
	Ag-KED2	109	32.333	0.00797	45.9	ppb
	Cd-KED2	111	5.333	0.00781	54.5	ppb
	Cd-KED2	114	3.707	-0.00054	296.2	ppb
>	In-KED2	115	19859.140			ppb
	Sb-KED2	121	40.667	0.04437	38.3	ppb
	Sb-KED2	123	39.914	0.05195	28.2	ppb
	Ba-KED2	135	3.333	0.01415	215.2	ppb
	Ba-KED2	137	4.333	0.00377	107.9	ppb
>	Lu-KED2	175	79453.020			ppb
	Tl-KED2	203	16.000	0.00353	105.9	ppb
	Tl-KED2	205	38.000	0.00421	37.4	ppb
	Pb-KED2	208	42.667	0.00294	63.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		94			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		102			
>	Ge-KED2	72		99			
	As-KED2	75					
>	Ge-KED1	72		98			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		99			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		100			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001D
Sample Date/Time: Tuesday, August 25, 2015 12:21:39
Sample Description: 50
Autosampler Position: 311
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001D.024
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	970584.987			ppb
	Be-STD1	9	642.014	0.09435	6.4	ppb
	Mn-STD1	55	22842269.285	822.13063	2.3	ppb
	Cr-KED3	52	30872.373	58.13519	6.9	ppb
	Cr-KED3	53	4125.930	63.36874	2.4	ppb
	Co-KED3	59	4184.615	3.05666	4.2	ppb
	Ni-KED3	60	3012.984	7.23688	3.4	ppb
	Ni-KED3	62	471.341	6.98407	1.8	ppb
	Cu-KED3	63	20169.581	16.44933	2.0	ppb
	Cu-KED3	65	10392.451	16.14725	2.5	ppb
	Zn-KED3	66	3409.740	35.90980	4.8	ppb
>	Ge-KED3	72	21278.175			ppb
>	Ge-KED2	72	66788.453			ppb
	As-KED2	75	294.670	1.39008	5.5	ppb
>	Ge-KED1	72	376551.229			ppb
	Se-KED1	77	316.670	-0.43110	65.3	ppb
	Se-KED1	78	26.695	0.08344	77.2	ppb
	Mo-KED2	95	1198.717	1.41449	1.3	ppb
	Mo-KED2	97	797.356	1.44526	2.3	ppb
	Mo-KED2	98	1981.918	1.41141	4.9	ppb
	Ag-KED2	107	97.000	0.02662	8.3	ppb
	Ag-KED2	109	99.334	0.02858	7.5	ppb
	Cd-KED2	111	44.667	0.11883	5.4	ppb
	Cd-KED2	114	98.751	0.11368	10.5	ppb
>	In-KED2	115	20351.004			ppb
	Sb-KED2	121	104.000	0.16545	8.3	ppb
	Sb-KED2	123	86.665	0.16399	9.4	ppb
	Ba-KED2	135	5845.863	29.78042	2.7	ppb
	Ba-KED2	137	11159.023	30.14247	1.7	ppb
>	Lu-KED2	175	82737.237			ppb
	Tl-KED2	203	52.000	0.01643	38.8	ppb
	Tl-KED2	205	113.334	0.01571	17.0	ppb
	Pb-KED2	208	60992.692	7.40699	0.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102		
	Be-STD1	9				
	Mn-STD1	55				
	Cr-KED3	52				
	Cr-KED3	53				
	Co-KED3	59				
	Ni-KED3	60				
	Ni-KED3	62				
	Cu-KED3	63				
	Cu-KED3	65				
	Zn-KED3	66				
>	Ge-KED3	72		110		
>	Ge-KED2	72		103		
	As-KED2	75				
>	Ge-KED1	72		103		
	Se-KED1	77				
	Se-KED1	78				
	Mo-KED2	95				
	Mo-KED2	97				
	Mo-KED2	98				
	Ag-KED2	107				
	Ag-KED2	109				
	Cd-KED2	111				
	Cd-KED2	114				
>	In-KED2	115		101		
	Sb-KED2	121				
	Sb-KED2	123				
	Ba-KED2	135				
	Ba-KED2	137				
>	Lu-KED2	175		104		
	Tl-KED2	203				
	Tl-KED2	205				
	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001L
Sample Date/Time: Tuesday, August 25, 2015 12:26:06
Sample Description: 250
Autosampler Position: 312
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001L.025
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	915082.892			ppb
	Be-STD1	9	233.335	0.03503	13.7	ppb
	Mn-STD1	55	10794189.139	411.91034	1.7	ppb
	Cr-KED3	52	5600.432	10.80193	6.5	ppb
	Cr-KED3	53	764.687	11.31042	8.3	ppb
	Co-KED3	59	813.357	0.60730	5.3	ppb
	Ni-KED3	60	572.678	1.40072	6.6	ppb
	Ni-KED3	62	90.667	1.33784	27.6	ppb
	Cu-KED3	63	3020.986	2.52497	3.7	ppb
	Cu-KED3	65	1609.757	2.56247	5.4	ppb
	Zn-KED3	66	787.688	8.40839	8.2	ppb
>	Ge-KED3	72	20701.330			ppb
>	Ge-KED2	72	66795.490			ppb
	As-KED2	75	129.667	0.29888	28.8	ppb
>	Ge-KED1	72	375215.551			ppb
	Se-KED1	77	297.336	-0.75698	58.4	ppb
	Se-KED1	78	12.535	0.01226	66.3	ppb
	Mo-KED2	95	283.336	0.32462	4.3	ppb
	Mo-KED2	97	188.668	0.32937	4.1	ppb
	Mo-KED2	98	464.309	0.32183	2.6	ppb
	Ag-KED2	107	33.000	0.00739	21.4	ppb
	Ag-KED2	109	27.000	0.00600	22.3	ppb
	Cd-KED2	111	14.333	0.03229	10.0	ppb
	Cd-KED2	114	28.053	0.02806	15.0	ppb
>	In-KED2	115	20649.700			ppb
	Sb-KED2	121	36.000	0.03208	36.7	ppb
	Sb-KED2	123	34.040	0.03429	43.6	ppb
	Ba-KED2	135	2232.175	11.20391	4.3	ppb
	Ba-KED2	137	4135.265	11.00490	2.0	ppb
>	Lu-KED2	175	82129.085			ppb
	Tl-KED2	203	10.000	0.00115	61.8	ppb
	Tl-KED2	205	35.000	0.00355	31.4	ppb
	Pb-KED2	208	14739.610	1.80141	1.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		96			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		107			
>	Ge-KED2	72		103			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		103			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001A
Sample Date/Time: Tuesday, August 25, 2015 12:30:34
Sample Description: 50 +100ppb
Autosampler Position: 313
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001A.026
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	929730.690			ppb
	Be-STD1	9	616462.355	96.81951	3.7	ppb
	Mn-STD1	55	60757262.902	2291.56651	8.2	ppb
	Cr-KED3	52	76863.030	146.21884	7.0	ppb
	Cr-KED3	53	10114.253	158.13404	3.7	ppb
	Co-KED3	59	134469.838	99.31159	2.2	ppb
	Ni-KED3	60	40557.526	98.61129	6.4	ppb
	Ni-KED3	62	6706.912	100.96285	5.4	ppb
	Cu-KED3	63	134511.910	110.78411	4.7	ppb
	Cu-KED3	65	67687.430	106.32282	5.3	ppb
	Zn-KED3	66	12966.549	138.29862	4.4	ppb
>	Ge-KED3	72	21087.901			ppb
>	Ge-KED2	72	67714.798			ppb
	As-KED2	75	15083.626	97.73049	2.2	ppb
>	Ge-KED1	72	382686.956			ppb
	Se-KED1	77	6472.807	103.95780	3.1	ppb
	Se-KED1	78	19909.384	102.53902	3.0	ppb
	Mo-KED2	95	86103.435	99.74048	7.6	ppb
	Mo-KED2	97	55543.112	99.04347	7.0	ppb
	Mo-KED2	98	141468.711	98.68283	4.6	ppb
	Ag-KED2	107	107.000	0.02891	24.0	ppb
	Ag-KED2	109	97.000	0.02733	22.4	ppb
	Cd-KED2	111	35007.530	96.83708	8.6	ppb
	Cd-KED2	114	82748.181	97.06306	4.7	ppb
>	In-KED2	115	20885.033			ppb
	Sb-KED2	121	53019.563	100.59788	6.5	ppb
	Sb-KED2	123	42050.676	100.36117	8.5	ppb
	Ba-KED2	135	30636.152	152.45295	6.9	ppb
	Ba-KED2	137	57558.761	151.95468	7.8	ppb
>	Lu-KED2	175	82279.716			ppb
	Tl-KED2	203	260026.159	95.48799	2.8	ppb
	Tl-KED2	205	610657.226	95.74675	3.9	ppb
	Pb-KED2	208	842813.726	103.02944	4.2	ppb

NA
RM 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		105			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		104			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

8/25/15

LABWORKS - Summary Report

Sample ID: K1509039-001S
Sample Date/Time: Tuesday, August 25, 2015 12:35:02
Sample Description: 50
Autosampler Position: 314
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-001S.027
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	976899.216			ppb
	Be-STD1	9	13818.681	2.06018	1.0	ppb
	Mn-STD1	55	12757185.282	456.00981	0.6	ppb
	Cr-KED3	52	15470.732	29.28256	9.7	ppb
	Cr-KED3	53	2226.841	34.01900	11.4	ppb
	Co-KED3	59	31223.757	22.98038	1.7	ppb
	Ni-KED3	60	10525.881	25.47572	6.7	ppb
	Ni-KED3	62	1762.776	26.40821	7.5	ppb
	Cu-KED3	63	26689.608	21.88685	1.8	ppb
	Cu-KED3	65	12976.225	20.28971	3.5	ppb
	Zn-KED3	66	5726.816	60.77742	7.2	ppb
>	Ge-KED3	72	21166.344			ppb
>	Ge-KED2	72	66157.931			ppb
	As-KED2	75	3205.693	20.82875	2.9	ppb
>	Ge-KED1	72	375665.129			ppb
	Se-KED1	77	1546.751	20.94598	10.4	ppb
	Se-KED1	78	3870.967	20.25401	2.6	ppb
	Mo-KED2	95	17304.476	20.47619	2.3	ppb
	Mo-KED2	97	11159.025	20.33753	4.8	ppb
	Mo-KED2	98	28484.527	20.32428	2.7	ppb
	Ag-KED2	107	6524.823	1.93990	3.7	ppb
	Ag-KED2	109	6185.672	1.91982	3.3	ppb
	Cd-KED2	111	756.020	2.12878	3.3	ppb
	Cd-KED2	114	1839.769	2.20294	5.0	ppb
>	In-KED2	115	20388.888			ppb
	Sb-KED2	121	4632.084	8.95547	4.5	ppb
	Sb-KED2	123	3695.767	8.97042	4.7	ppb
	Ba-KED2	135	16616.325	84.50826	2.1	ppb
	Ba-KED2	137	31122.198	83.95772	3.0	ppb
>	Lu-KED2	175	82423.481			ppb
	Tl-KED2	203	52929.876	19.39641	1.6	ppb
	Tl-KED2	205	124180.421	19.42742	2.5	ppb
	Pb-KED2	208	219050.290	26.71504	1.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		102			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		101			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		104			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-002
Sample Date/Time: Tuesday, August 25, 2015 12:39:30
Sample Description: 50
Autosampler Position: 315
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-002.028
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	994125.664			ppb
	Be-STD1	9	665.349	0.09550	4.5	ppb
	Mn-STD1	55	30358646.844	1067.13900	3.3	ppb
	Cr-KED3	52	57237.494	105.59832	5.4	ppb
	Cr-KED3	53	7324.546	110.92142	4.6	ppb
	Co-KED3	59	3587.117	2.56794	2.1	ppb
	Ni-KED3	60	2216.172	5.21111	5.8	ppb
	Ni-KED3	62	353.338	5.11932	12.7	ppb
	Cu-KED3	63	13902.117	11.10265	6.0	ppb
	Cu-KED3	65	6969.368	10.60652	3.3	ppb
	Zn-KED3	66	4650.090	48.02238	4.0	ppb
>	Ge-KED3	72	21723.846			ppb
>	Ge-KED2	72	69792.749			ppb
	As-KED2	75	242.669	0.97666	3.1	ppb
>	Ge-KED1	72	390797.071			ppb
	Se-KED1	77	314.670	-0.69334	119.4	ppb
	Se-KED1	78	19.958	0.04687	31.3	ppb
	Mo-KED2	95	1149.380	1.28244	1.7	ppb
	Mo-KED2	97	709.351	1.21490	6.1	ppb
	Mo-KED2	98	1874.653	1.26220	3.9	ppb
	Ag-KED2	107	117.000	0.03067	8.7	ppb
	Ag-KED2	109	103.334	0.02810	15.4	ppb
	Cd-KED2	111	67.667	0.17350	9.5	ppb
	Cd-KED2	114	150.765	0.16628	6.8	ppb
>	In-KED2	115	21514.904			ppb
	Sb-KED2	121	123.334	0.19009	18.4	ppb
	Sb-KED2	123	79.040	0.13477	22.0	ppb
	Ba-KED2	135	5947.905	28.65392	0.8	ppb
	Ba-KED2	137	11346.838	28.98603	0.7	ppb
>	Lu-KED2	175	85046.747			ppb
	Tl-KED2	203	66.000	0.02091	29.5	ppb
	Tl-KED2	205	150.667	0.02089	5.7	ppb
	Pb-KED2	208	86305.037	10.19760	0.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		105		
	Be-STD1	9				
	Mn-STD1	55				
	Cr-KED3	52				
	Cr-KED3	53				
	Co-KED3	59				
	Ni-KED3	60				
	Ni-KED3	62				
	Cu-KED3	63				
	Cu-KED3	65				
	Zn-KED3	66				
>	Ge-KED3	72		112		
>	Ge-KED2	72		108		
	As-KED2	75				
>	Ge-KED1	72		107		
	Se-KED1	77				
	Se-KED1	78				
	Mo-KED2	95				
	Mo-KED2	97				
	Mo-KED2	98				
	Ag-KED2	107				
	Ag-KED2	109				
	Cd-KED2	111				
	Cd-KED2	114				
>	In-KED2	115		107		
	Sb-KED2	121				
	Sb-KED2	123				
	Ba-KED2	135				
	Ba-KED2	137				
>	Lu-KED2	175		107		
	Tl-KED2	203				
	Tl-KED2	205				
	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 12:44:00
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCV.029
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	953939.542			ppb
	Be-STD1	9	159777.921	24.41852	1.8	ppb
	Mn-STD1	55	727689.095	26.55478	2.1	ppb
	Cr-KED3	52	13450.339	25.03042	6.3	ppb
	Cr-KED3	53	1726.771	25.69471	1.6	ppb
	Co-KED3	59	34066.253	24.70055	5.4	ppb
	Ni-KED3	60	10556.235	25.14997	5.9	ppb
	Ni-KED3	62	1770.110	26.10352	3.3	ppb
	Cu-KED3	63	31838.802	25.70978	0.9	ppb
	Cu-KED3	65	15933.222	24.54063	6.3	ppb
	Zn-KED3	66	2540.226	26.42201	3.0	ppb
>	Ge-KED3	72	21501.178			ppb
>	Ge-KED2	72	68694.435			ppb
	As-KED2	75	3920.871	24.62167	1.0	ppb
>	Ge-KED1	72	382032.847			ppb
	Se-KED1	77	1838.119	25.38349	6.9	ppb
	Se-KED1	78	5011.251	25.81363	2.3	ppb
	Mo-KED2	95	21999.596	24.91795	2.3	ppb
	Mo-KED2	97	14081.608	24.55479	3.6	ppb
	Mo-KED2	98	36419.269	24.86879	2.1	ppb
	Ag-KED2	107	85374.692	24.31306	0.4	ppb
	Ag-KED2	109	81004.382	24.08217	1.4	ppb
	Cd-KED2	111	9129.250	24.67871	1.6	ppb
	Cd-KED2	114	21177.853	24.31422	0.4	ppb
>	In-KED2	115	21296.059			ppb
	Sb-KED2	121	13547.755	25.12034	0.5	ppb
	Sb-KED2	123	10475.369	24.40406	1.8	ppb
	Ba-KED2	135	5117.584	24.90644	3.4	ppb
	Ba-KED2	137	9701.960	25.03728	0.8	ppb
>	Lu-KED2	175	83000.428			ppb
	Tl-KED2	203	66739.536	24.28465	1.3	ppb
	Tl-KED2	205	158747.826	24.65662	0.6	ppb
	Pb-KED2	208	201013.606	24.34044	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9	98				
	Mn-STD1	55	106				
	Cr-KED3	52	100				
	Cr-KED3	53	103				
	Co-KED3	59	99				
	Ni-KED3	60	101				
	Ni-KED3	62	104				
	Cu-KED3	63	103				
	Cu-KED3	65	98				
	Zn-KED3	66	106				
>	Ge-KED3	72		111			
>	Ge-KED2	72		106			
	As-KED2	75	98				
>	Ge-KED1	72		105			
	Se-KED1	77	102				
	Se-KED1	78	103				
	Mo-KED2	95	100				
	Mo-KED2	97	98				
	Mo-KED2	98	99				
	Ag-KED2	107	97				
	Ag-KED2	109	96				
	Cd-KED2	111	99				
	Cd-KED2	114	97				
>	In-KED2	115		106			
	Sb-KED2	121	100				
	Sb-KED2	123	98				
	Ba-KED2	135	100				
	Ba-KED2	137	100				
>	Lu-KED2	175		104			
	Tl-KED2	203	97				
	Tl-KED2	205	99				
	Pb-KED2	208	97				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 12:48:28
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCB.030
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	977948.755			ppb
	Be-STD1	9	43.333	0.00432	115.1	ppb
	Mn-STD1	55	2932.315	0.01587	180.0	ppb
	Cr-KED3	52	25.667	-0.00019	2930.3	ppb
	Cr-KED3	53	43.333	-0.25674	34.7	ppb
	Co-KED3	59	13.000	0.00517	49.2	ppb
	Ni-KED3	60	7.000	-0.00025	4728.2	ppb
	Ni-KED3	62	4.000	0.00653	1231.2	ppb
	Cu-KED3	63	27.333	0.01096	13.1	ppb
	Cu-KED3	65	10.333	0.00389	110.2	ppb
	Zn-KED3	66	14.667	0.00068	3934.5	ppb
>	Ge-KED3	72	20723.360			ppb
>	Ge-KED2	72	65108.395			ppb
	As-KED2	75	74.334	-0.05300	67.5	ppb
>	Ge-KED1	72	375294.168			ppb
	Se-KED1	77	307.337	-0.57382	111.8	ppb
	Se-KED1	78	6.181	-0.02129	42.1	ppb
	Mo-KED2	95	10.000	0.00554	198.5	ppb
	Mo-KED2	97	7.333	0.00364	54.4	ppb
	Mo-KED2	98	16.822	0.00698	8.9	ppb
	Ag-KED2	107	34.333	0.00805	65.8	ppb
	Ag-KED2	109	25.333	0.00562	44.3	ppb
	Cd-KED2	111	3.000	0.00099	588.3	ppb
	Cd-KED2	114	4.589	0.00043	704.4	ppb
>	In-KED2	115	20185.871			ppb
	Sb-KED2	121	49.333	0.06015	37.4	ppb
	Sb-KED2	123	37.415	0.04414	33.6	ppb
	Ba-KED2	135	2.000	0.00691	149.1	ppb
	Ba-KED2	137	4.000	0.00268	202.7	ppb
>	Lu-KED2	175	80702.658			ppb
	Tl-KED2	203	14.000	0.00270	99.0	ppb
	Tl-KED2	205	33.333	0.00339	37.0	ppb
	Pb-KED2	208	48.000	0.00354	46.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		107			
>	Ge-KED2	72		101			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		100			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		101			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Sb-KED2	121	Out of Control

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Tuesday, August 25, 2015 12:52:56
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\LLCCVS.031
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	976741.810			ppb
	Be-STD1	9	323.337	0.04618	7.0	ppb
	Mn-STD1	55	5183.607	0.09660	8.5	ppb
	Cr-KED3	52	229.669	0.38489	1.8	ppb
	Cr-KED3	53	63.333	0.05026	445.7	ppb
	Co-KED3	59	57.000	0.03754	15.0	ppb
	Ni-KED3	60	174.001	0.40437	9.3	ppb
	Ni-KED3	62	28.667	0.37378	10.0	ppb
	Cu-KED3	63	289.336	0.22568	18.6	ppb
	Cu-KED3	65	147.001	0.21805	13.2	ppb
	Zn-KED3	66	119.334	1.11240	11.0	ppb
>	Ge-KED3	72	21176.390			ppb
>	Ge-KED2	72	66285.112			ppb
	As-KED2	75	243.669	1.06491	2.9	ppb
>	Ge-KED1	72	364785.361			ppb
	Se-KED1	77	446.674	2.07420	18.8	ppb
	Se-KED1	78	408.429	2.15533	5.0	ppb
	Mo-KED2	95	100.667	0.11144	10.6	ppb
	Mo-KED2	97	71.334	0.11850	17.1	ppb
	Mo-KED2	98	149.261	0.10010	7.7	ppb
	Ag-KED2	107	163.334	0.04577	5.7	ppb
	Ag-KED2	109	159.001	0.04655	4.6	ppb
	Cd-KED2	111	18.000	0.04268	47.7	ppb
	Cd-KED2	114	38.590	0.04063	15.3	ppb
>	In-KED2	115	20615.122			ppb
	Sb-KED2	121	97.334	0.15042	31.1	ppb
	Sb-KED2	123	71.497	0.12473	15.4	ppb
	Ba-KED2	135	25.333	0.12396	4.7	ppb
	Ba-KED2	137	44.667	0.11073	25.6	ppb
>	Lu-KED2	175	83139.236			ppb
	Tl-KED2	203	125.334	0.04295	18.5	ppb
	Tl-KED2	205	294.670	0.04374	16.4	ppb
	Pb-KED2	208	870.677	0.10280	4.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9	115				
	Mn-STD1	55	97				
	Cr-KED3	52	96				
	Cr-KED3	53	13				
	Co-KED3	59	94				
	Ni-KED3	60	101				
	Ni-KED3	62	93				
	Cu-KED3	63	113				
	Cu-KED3	65	109				
	Zn-KED3	66	111				
>	Ge-KED3	72		110			
>	Ge-KED2	72		102			
	As-KED2	75	106				
>	Ge-KED1	72		100			
	Se-KED1	77	104				
	Se-KED1	78	108				
	Mo-KED2	95	111				
	Mo-KED2	97	118				
	Mo-KED2	98	100				
	Ag-KED2	107	114				
	Ag-KED2	109	116				
	Cd-KED2	111	107				
	Cd-KED2	114	102				
>	In-KED2	115		102			
	Sb-KED2	121	150				
	Sb-KED2	123	125				
	Ba-KED2	135	124				
	Ba-KED2	137	111				
>	Lu-KED2	175		104			
	Tl-KED2	203	107				
	Tl-KED2	205	109				
	Pb-KED2	208	103				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Cr-KED3	53	Out of Control
QC Std 6	Sb-KED2	121	Out of Control

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F005.D
Lab ID: K1509039-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/02/2015 09:30
Date Quantitated: 09/03/2015 12:23
Batch ID: KWG1508411
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: 09/03/15

Secondary Review:

Printed: 09/03/2015 12:52:34
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F005.D
Lab ID: K1509039-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/02/2015 09:30
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Qual

Primary Review: MR 09/03/15

Secondary Review: _____

Printed: 09/03/2015 09:02:47
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D			**Vial:**	6
Acqu Date:	09/02/2015 09:30	**Quant Date:**	09/03/2015 12:23	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509039-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/17/2015	**Receive Date:**	08/18/2015

Analysis Lot:	KWG1508411	**Prep Lot:**	KWG1507856	**Report Group:**	K1509039
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1460168	**Prep Date:**	08/20/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\083115.B\0831F024.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 +0.00	13.62 +0.00	2096273	838424	13.26	10.18			102 OK
				%Recovery =	133 OK	102 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {1}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {2}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	21U	21U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D			**Vial:**	6
Acqu Date:	09/02/2015 09:30	**Quant Date:**	09/03/2015 12:23	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509039-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {1}	4.94	4.95	7531557	0m	1,607	0.0000	3200D	21U	
Aroclor 1248			0	0	2,033	1,692	4000D	3300D	**3300**D
Aroclor 1248 {2}	5.29	5.55	8389093	3316235m	1,924	1,286	3800D	2500D	
Aroclor 1248 {3}	5.68	5.92	14546705	5003201m	2,264	1,682	4400D	3300D	
Aroclor 1248 {4}	5.88	6.36	10373096	5059067m	2,113	2,109	4100D	4100ED	MCAvg
Aroclor 1248 {5}	6.29	7.05	10456984	0m	2,258	0.0000	4400D	21U	
Aroclor 1254 {1}	6.25	6.72	6835005	7401023m	1,757	2,014	3400D	4000D	
Aroclor 1254			0	0	1,510	1,568	3000D	3100D	**3000**D
Aroclor 1254 {2}	6.68	7.05	10768065	10545308m	1,484	1,820	2900D	3600D	
Aroclor 1254 {3}	6.84	7.16	17717121	3000890m	1,211	1,549	2400D	3000D	
Aroclor 1254 {4}	7.18	8.01	12529117	1788351m	1,310	789.38	2600D	1500D	
Aroclor 1254 {5}	7.78	8.77	11342653	5224666m	1,791	1,665	3500D	3300D	
Aroclor 1260 {1}	7.08 +0.01	7.83 +0.00	0	583752m	0.0000	264.63	21U	520D	
Aroclor 1260			0	0	237.23	289.13	470D	570D	**470**D
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.01	2273827	828382m	280.24	219.16	550D	430D	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	1606361	865765m	195.16	239.90	380D	470D	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	3907318	2987171m	207.85	345.96	410D	680D	
Aroclor 1260 {5}	9.90 +0.01	11.02 0.00	3769043	2099976m	265.68	375.98	520D	740D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	22.105 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	92.2 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F005.D
Report Date: 03-Sep-2015 12:23

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D
Inj Date : 02-SEP-2015 09:30
Sample Info: K1509039-001 10X
Misc Info :
Cal Date : 03-SEP-2015 07:52
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	1521534	496886	8.60	6.32		100.00
Aroclor 1248	4.937	4.954	7531557		1610		80.00- 120.00	100.00(H)
	5.294	5.551	8389093	3316235	1920	1290	17.18- 25.77	111.39(H)
	5.681	5.924	14546705	5003201	2260	1680	19.47- 29.21	193.14(H)
	5.877	6.357	10373096	5059067	2110	2110	3.05- 4.58	137.73(H)
	6.287	7.054	10456984		2260		0.69- 1.04	138.84(H)
		Average of Peak Amounts =			2030	1690		
Aroclor 1254	6.251	6.717	6835005	7401023	1760	2010	80.00- 120.00	100.00(H)
	6.684	7.054	10768065	10545308	1480	1820	1017.66-1526.49	157.54(H)
	6.837	7.161	17717121	3000890	1210	1550	9646.23-14469.35	259.21(H)
	7.177	8.014	12529117	1788351	1310	789	1126.72-1690.08	183.31(H)
	7.784	8.771	11342653	5224666	1790	1670	281.12- 421.67	165.95(H)
		Average of Peak Amounts =			1510	1570		
Aroclor 1260	7.081	7.834		583752		265	80.00- 120.00	100.00(H)
	8.094	9.271	2273827	828382	280	219	71.13- 106.70	44.42(H)
	8.647	9.721	1606361	865765	195	240	72.13- 108.20	31.38(H)
	9.111	10.401	3907318	2987171	208	346	164.26- 246.39	76.33(H)
	9.897	11.024	3769043	2099976	266	376	129.15- 193.73	73.63(H)
		Average of Peak Amounts =			237	289		
Decachlorobiphenyl	12.264	13.624	2096273	838424	13.3	10.2		100.00
Aroclors, Total	0.000	0.000	24987016	11524557	3780	3550		100.00

QC Flag Legend

H - Operator selected an alternate compound hit.

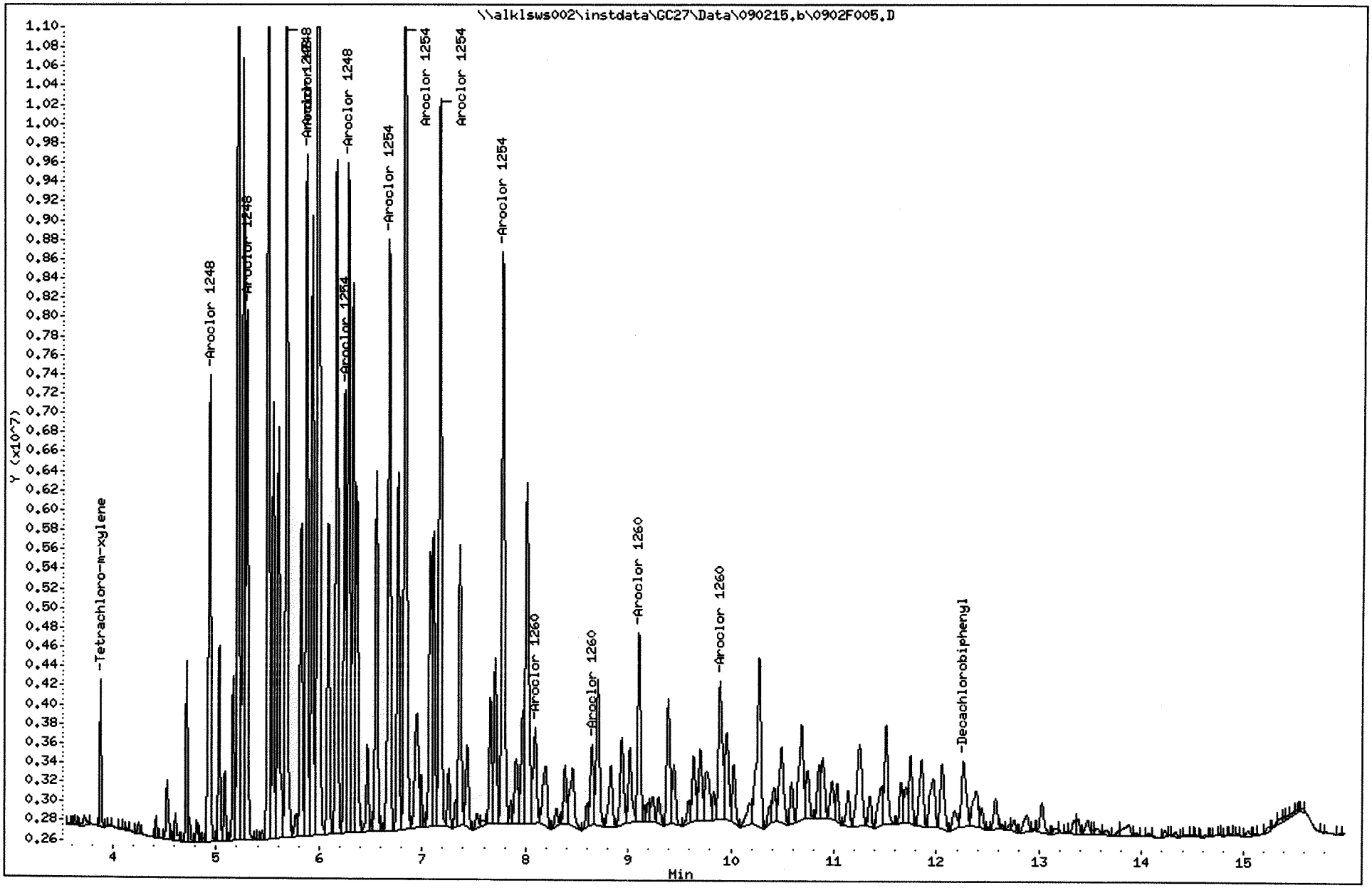
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F005.D
Date : 02-SEP-2015 09:30
Client ID:
Sample Info: K1509039-001 10X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

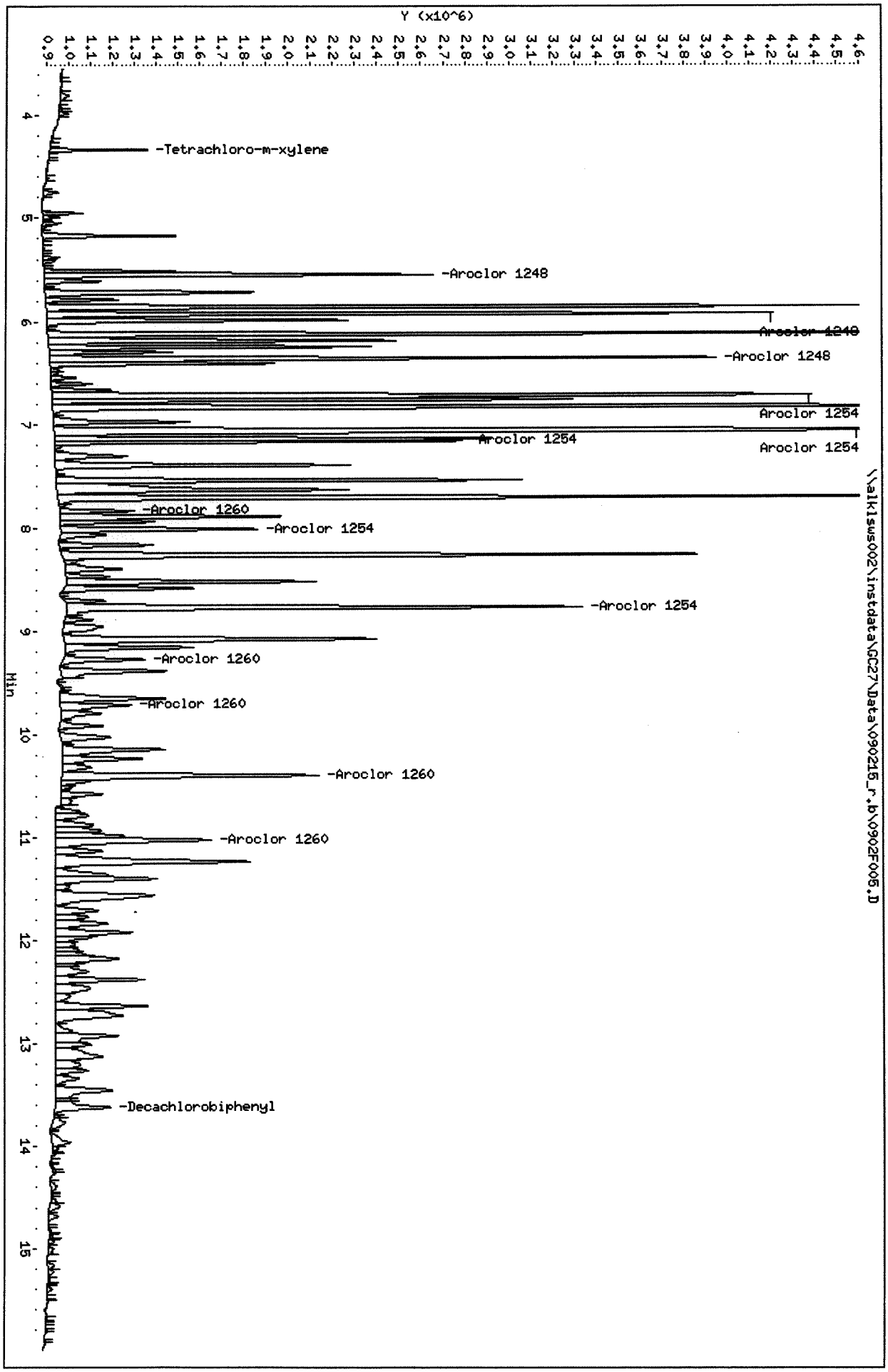
Column diameter: 0.32

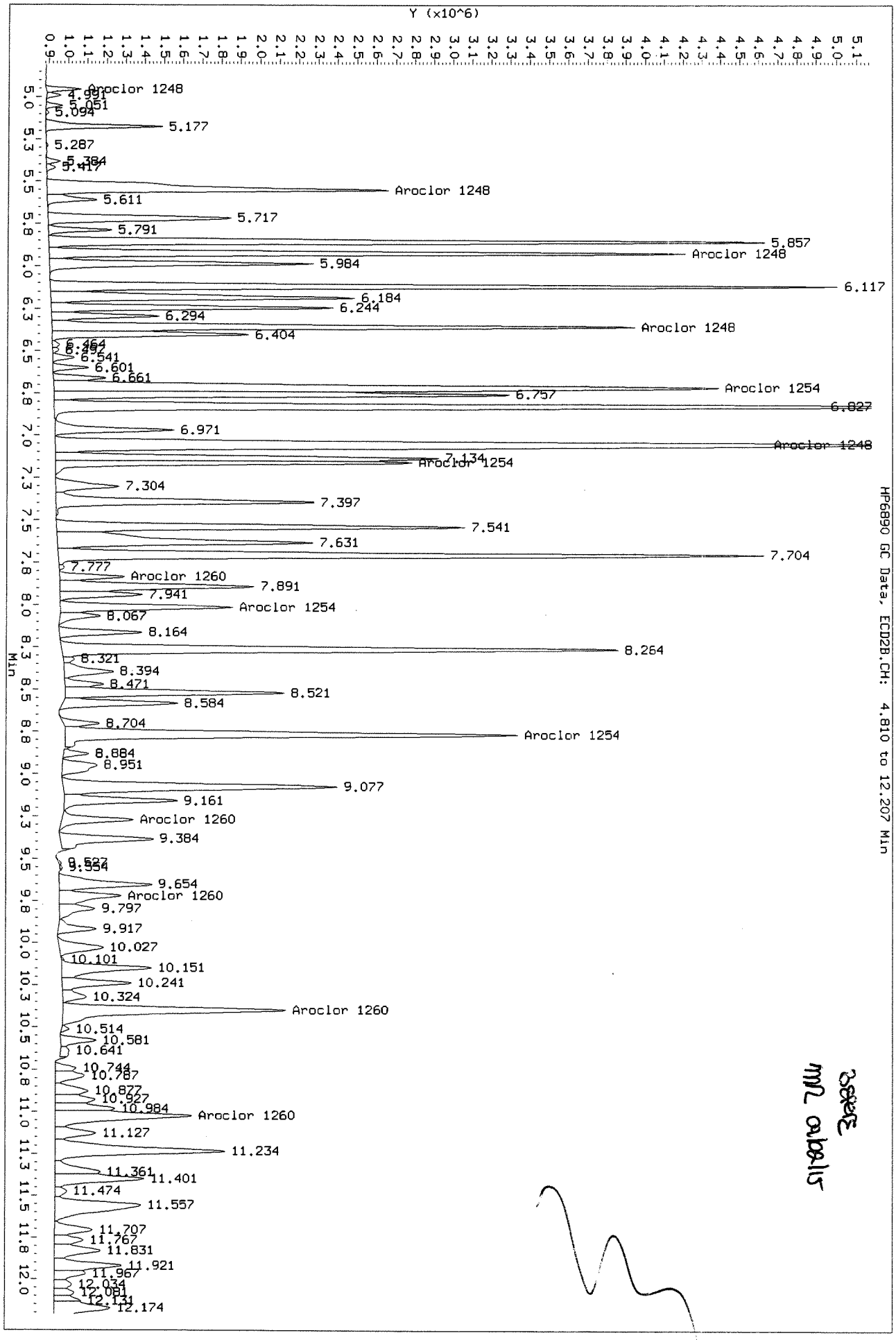


Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D
Date : 02-SEP-2015 09:30
Client ID:
Sample Info: K15G9039-001 10X

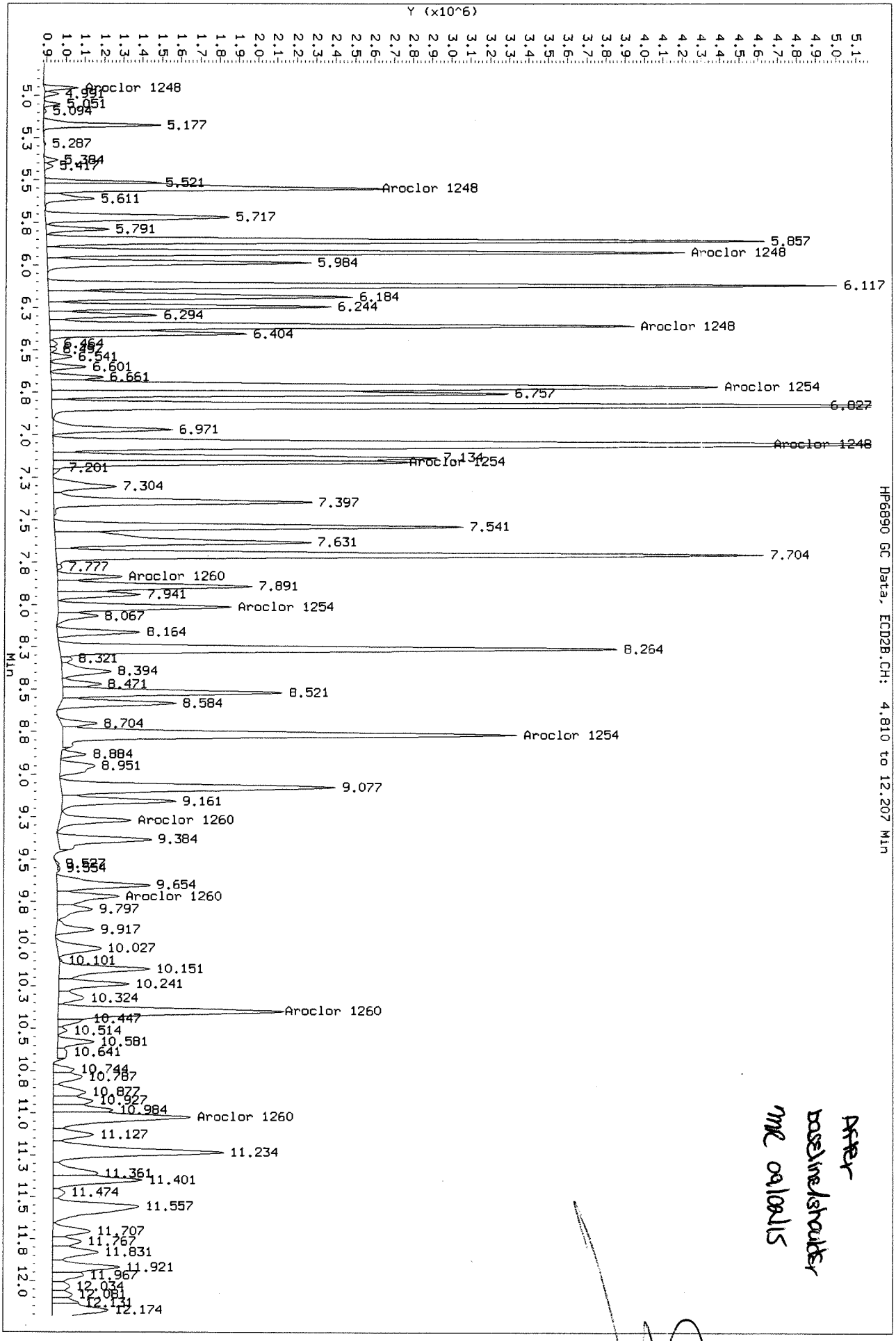
Instrument: GC27.i
Operator: MR
Column diameter: 0.32

Column phase: DB-XLB




Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D
Injection Date: 02-SEP-2015 09:30
Instrument: GC27.1
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.810 to 12.207 Min
Y (x10^6)
Min
Aroclor 1248
4.991
5.051
5.094
5.177
5.287
5.384
5.417
Aroclor 1248
5.611
5.717
5.791
5.857
Aroclor 1248
5.984
6.117
6.184
6.244
6.294
Aroclor 1248
6.404
6.464
6.492
6.541
6.601
6.661
Aroclor 1254
6.757
6.827
6.971
Aroclor 1248
7.134
Aroclor 1254
7.304
7.397
7.541
7.631
7.704
7.777
Aroclor 1260
7.891
7.941
Aroclor 1254
8.067
8.164
8.264
8.321
8.394
8.471
8.521
8.584
8.704
Aroclor 1254
8.884
8.951
9.077
9.161
Aroclor 1260
9.384
9.527
9.554
9.654
Aroclor 1260
9.797
9.917
10.027
10.101
10.151
10.241
10.324
Aroclor 1260
10.514
10.581
10.641
10.744
10.787
10.877
10.927
10.984
Aroclor 1260
11.127
11.234
11.361
11.401
11.474
11.557
11.707
11.767
11.831
11.921
11.967
12.034
12.081
12.131
12.174

Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F005.D
Injection Date: 02-SEP-2015 09:30
Instrument: GC27.1
Client Sample ID:



HP6890 GC Data, ECD2B.CH: 4.810 to 12.207 Min

After baseline/shoulder
MC 09/08/15

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F008.D
Lab ID: K1509039-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/02/2015 10:42
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: mmR 09/03/15

Secondary Review: [signature]

Printed: 09/03/2015 09:03:09
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F008.D
Lab ID: K1509039-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/02/2015 10:42
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	JQ dl
	Aroclor 1260	22.7	NA	20	JQ Dual

Primary Review: mmr 09/08/15

Secondary Review: _____

Printed: 09/03/2015 09:03:14
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D			**Vial:**	9
Acqu Date:	09/02/2015 10:42	**Quant Date:**	09/03/2015 12:29	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509039-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/17/2015	**Receive Date:**	08/18/2015

Analysis Lot:	KWG1508411	**Prep Lot:**	KWG1507856	**Report Group:**	K1509039
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1460159	**Prep Date:**	08/20/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\083115.B\0831F024.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27 +0.00	13.63 +0.00	1978086	655034	12.51	7.95			80 OK
				%Recovery =	125 OK	80 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {1}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {2}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	21U	21U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D			**Vial:**	9
Acqu Date:	09/02/2015 10:42	**Quant Date:**	09/03/2015 12:29	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509039-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {1}	4.94	4.96	6257601	0	1,336	0.0000	2600D	21U	
Aroclor 1248			0	0	1,720	1,539	3400D	3000D	**3000**D
Aroclor 1248 {2}	5.30	5.55	6988115	3336488	1,602	1,294	3100D	2500D	
Aroclor 1248 {3}	5.68	5.93	12409280	4357163	1,931	1,465	3800D	2900D	
Aroclor 1248 {4}	5.88	6.36	8821146	4461156	1,796	1,860	3500D	3700D	
Aroclor 1248 {5}	6.29	7.06	8966348	0	1,936	0.0000	3800D	21U	
Aroclor 1254 {1}	6.25	6.72	5686737	6460831m	1,462	1,758	2900D	3500D	
Aroclor 1254			0	0	1,272	1,335	2500D	2600D	**2500**D
Aroclor 1254 {2}	6.69	7.06	9083196	9140564m	1,252	1,578	2500D	3100D	
Aroclor 1254 {3}	6.84	7.16	14862326	2529410m	1,016	1,306	2000D	2600D	
Aroclor 1254 {4}	7.18	8.02	10576724	1402828m	1,106	619.21	2200D	1200D	
Aroclor 1254 {5}	7.79	8.77	9657274	4437237m	1,525	1,414	3000D	2800D	
Aroclor 1260 {1}	7.08 +0.01	7.84 +0.00	0	439388m	0.0000	199.19	21U	390D	
Aroclor 1260			0	0	194.62	218.68	380D	430D	**380**D
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.01	1730902	675855m	213.33	178.81	420D	350D	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	1359668	550657m	165.19	152.59	320D	300D	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	2967701	2395984m	157.87	277.49	310D	540D	
Aroclor 1260 {5}	9.90 +0.01	11.03	3434695	1593582m	242.11	285.32	480D	560D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	22.005 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	92.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F008.D
Report Date: 03-Sep-2015 12:29

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D
Inj Date : 02-SEP-2015 10:42
Sample Info: K1509039-002 10X
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	1382415	464024	7.81	5.90		100.00
Aroclor 1248	4.941	4.955	6257601		1340		80.00- 120.00	100.00(H)
	5.295	5.551	6988115	3336488	1600	1290	17.18- 25.77	111.67(H)
	5.681	5.925	12409280	4357163	1930	1470	19.47- 29.21	198.31(H)
	5.878	6.358	8821146	4461156	1800	1860	3.05- 4.58	140.97(H)
	6.288	7.055	8966348		1940		0.69- 1.04	143.29(H)
		Average of Peak Amounts =			1720	1540		
Aroclor 1254	6.251	6.718	5686737	6460831	1460	1760	80.00- 120.00	100.00(H)
	6.685	7.055	9083196	9140564	1250	1580	1017.66-1526.49	159.73(H)
	6.838	7.158	14862326	2529410	1020	1310	9646.23-14469.35	261.35(H)
	7.178	8.015	10576724	1402828	1110	619	1126.72-1690.08	185.99(H)
	7.785	8.771	9657274	4437237	1530	1410	281.12- 421.67	169.82(H)
		Average of Peak Amounts =			1270	1340		
Aroclor 1260	7.081	7.835		439388		199	80.00- 120.00	100.00(H)
	8.095	9.271	1730902	675855	213	179	71.13- 106.70	46.99(H)
	8.648	9.721	1359668	550657	165	153	72.13- 108.20	36.91(H)
	9.111	10.401	2967701	2395984	158	277	164.26- 246.39	80.56(H)
	9.898	11.025	3434695	1593582	242	285	129.15- 193.73	93.24(H)
		Average of Peak Amounts =			195	219		
Decachlorobiphenyl	12.265	13.625	1978086	655034	12.5	7.95		100.00
Aroclors, Total	0.000	0.000	21034990	9976869	3190	3090		0.00

QC Flag Legend

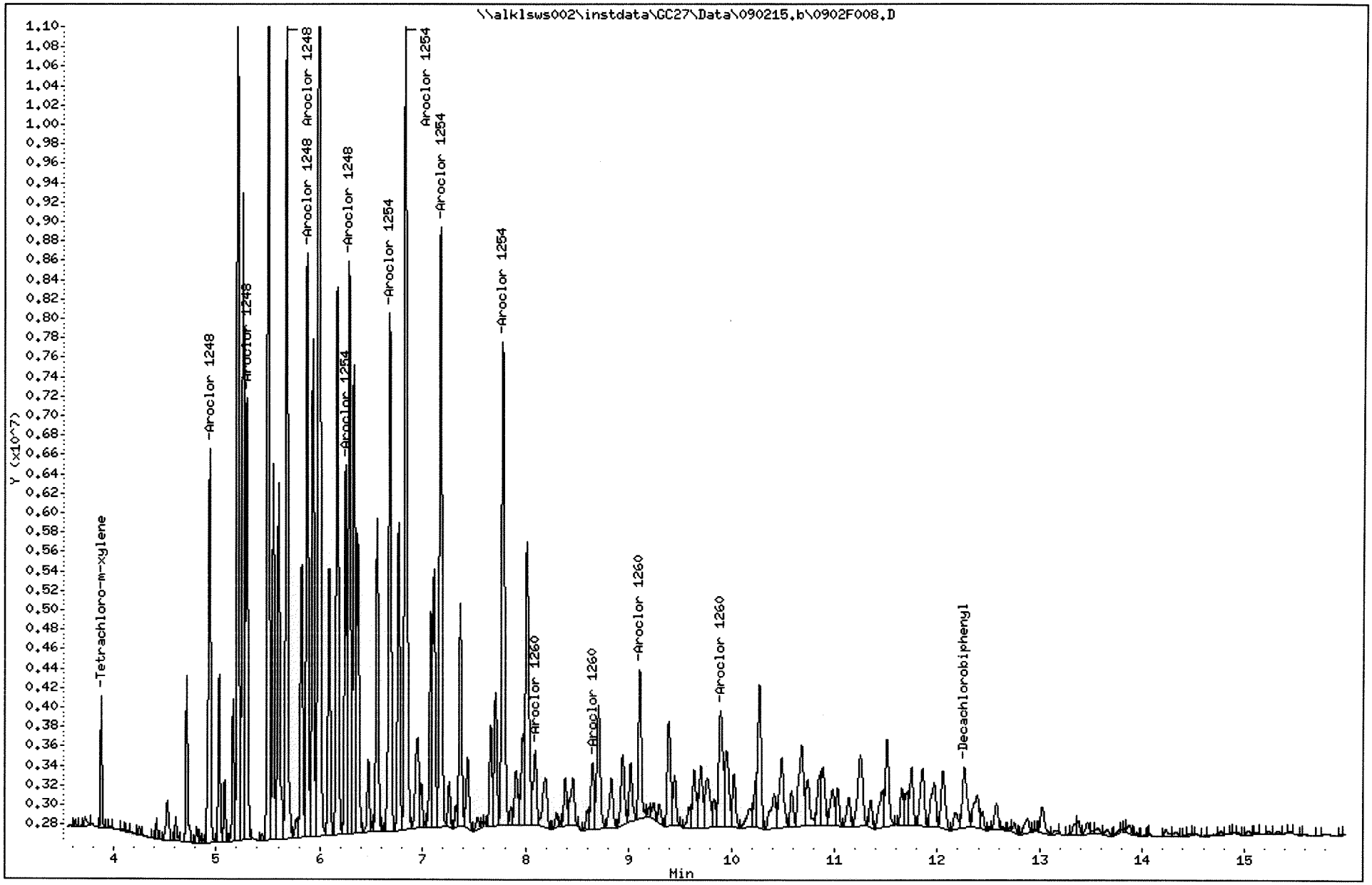
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F008.D
Date : 02-SEP-2015 10:42
Client ID:
Sample Info: K1509039-002 10X

Column phase: DB-35MS

Instrument: GC27.i

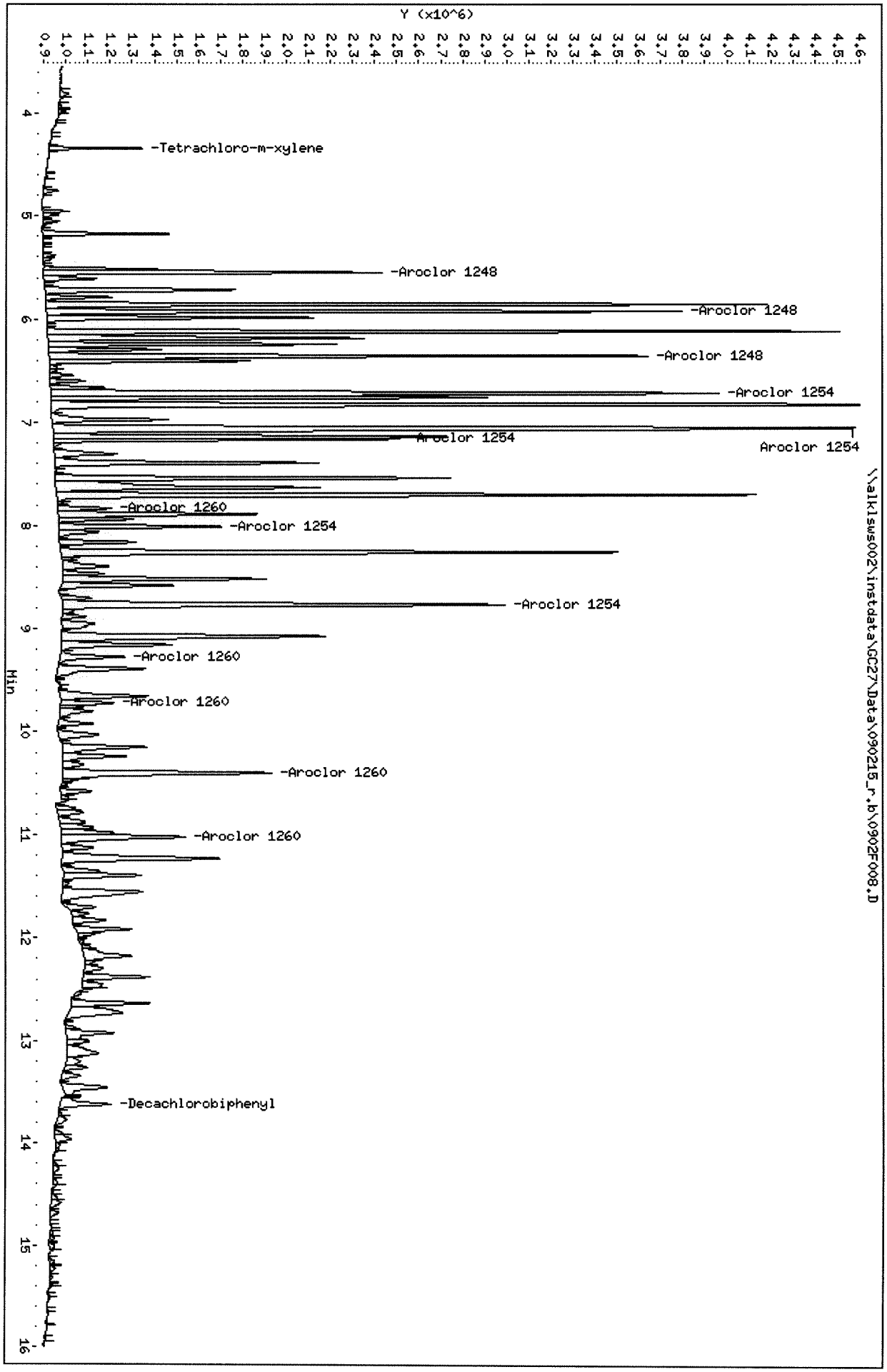
Operator: MR
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D
Date : 02-SEP-2015 10:42
Client ID:
Sample Info: K1509039-002 10X

Column phase: DB-XLB

Instrument: GC27.i
Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F006.D
Lab ID: KWG1507856-1 -- K1509039-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/02/2015 09:54
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCU dk

Primary Review: mfg 09/03/15

Secondary Review: [signature]

Printed: 09/03/2015 09:02:51
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F006.D
Lab ID: KWG1507856-1 -- K1509039-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/02/2015 09:54
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mc 09/02/15

Secondary Review: _____

Printed: 09/03/2015 09:02:56
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D			**Vial:**	7
Acqu Date:	09/02/2015 09:54	**Quant Date:**	09/02/2015 15:35	**Dilution:**	10.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507856-1 -- K1509039-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/31/2015

Analysis Lot:	KWG1508411	**Prep Lot:**	KWG1507856	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1460169	**Prep Date:**	08/20/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\083115.B\0831F024.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	0.00	1526274	509551	8.62	6.48			86	OK
						%Recovery =	86 OK	65 OK	Limits =	10-135		
Decachlorobiphenyl	12.27	+0.01	13.63	+0.01	1923278	658818	12.16	8.00			122	OK
						%Recovery =	122 OK	80 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	825.29	302.13	1620D	595D	595PD
Aroclor 1016 {1}	4.24		4.62	+0.00	491399	149218	136.92	81.18	270D	160D	
Aroclor 1016 {2}	4.75	+0.00	4.96	+0.00	783157	1061143	261.39	435.86	515D	858D	
Aroclor 1016 {3}	4.94	+0.00	5.61	+0.02	20549379	1167756	2,078	389.35	4090D	767D	RPD
Aroclor 1016 {4}	5.21	+0.00	5.93	+0.00	0	0	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}	5.51	+0.01	6.12	+0.01	0	0	0.0000	0.0000	21U	21U	
Aroclor 1221					0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232					0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242					0	0	1,712	1,934	3400D	3800D	3400D
Aroclor 1242 {1}	4.53		4.96		3395476	1061143	567.14	584.16	1120D	1150D	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D			**Vial:**	7
Acqu Date:	09/02/2015 09:54	**Quant Date:**	09/02/2015 15:35	**Dilution:**	10.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507856-1 -- K1509039-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}	4.94	5.55	20549379	8104652	2,653	2,460	5220D	4840D	
Aroclor 1242 {3}	5.17	5.73	6005941	4834800	1,917	2,757	3770D	5430D	
Aroclor 1242 {4}	5.51	5.93	0	0	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}	6.00	6.83	0	0	0.0000	0.0000	21U	21U	
Aroclor 1248			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1254			0	0	1,780	2,201	3500D	4300D	**3500D**
Aroclor 1254 {1}	6.25	6.72	8451419	11341233m	2,172	3,086	4280D	6080D	
Aroclor 1254 {2}	6.69	7.06	13233262	14357688m	1,823	2,478	3590D	4880D	
Aroclor 1254 {3}	6.84	7.14	21313893	5238181m	1,456	2,704	2870D	5320D	
Aroclor 1254 {4}	7.18	8.02	14119737	2077887m	1,476	917.18	2910D	1810D	
Aroclor 1254 {5}	7.79	8.77	12489153	5711067m	1,972	1,820	3880D	3580D	
Aroclors, Total			35339138	15049114	4,678	4,802	9210JD	9450JD	**9210JD**
Aroclor 1260			0	0	359.99	364.79	709D	718D	**709D**
Aroclor 1260 {1}	7.09 +0.01	7.84 +0.01	5856407	700659m	594.52	317.63	1170D	625D	
Aroclor 1260 {2}	8.10 +0.00	9.28 +0.01	2613620	1160158m	322.12	306.93	634D	604D	
Aroclor 1260 {3}	8.65 +0.01	9.72 +0.01	1981209	1138101m	240.70	315.37	474D	621D	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	5010843	3639538m	266.55	421.51	525D	830D	
Aroclor 1260 {5}	9.90 +0.01	11.03 +0.00	5334933	2583209m	376.05	462.50	740D	911D	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	22.036 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	92.2 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F006.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D
Inj Date : 02-SEP-2015 09:54
Sample Info: K1509039-001MS 10X
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.338	1526274	509551	8.62	6.48		100.00
Aroclor 1016	4.238	4.622	491399	149218	137	81.2	80.00- 120.00	100.00(H)
	4.745	4.955	783157	1061143	261	436	66.46- 99.69	159.37(H)
	4.938	5.608	20549379	1167756	2080	389	193.66- 290.48	4181.81(H)
	5.212	5.925					91.62- 137.43	0.00(H)
	5.505	6.122					89.89- 134.83	0.00(H)
		Average of Peak Amounts =			826	302		
Aroclor 1242	4.528	4.955	3395476	1061143	567	584	80.00- 120.00	100.00(H)
	4.938	5.552	20549379	8104652	2650	2460	148.40- 222.61	605.20(H)
	5.168	5.725	6005941	4834800	1920	2760	37.98- 56.97	176.88(H)
	5.505	5.925					73.04- 109.55	0.00(H)
	5.995	6.828					92.76- 139.15	0.00(H)
		Average of Peak Amounts =			1710	1930		
Aroclor 1254	6.252	6.722	8451419	11341233	2170	3090	80.00- 120.00	100.00(H)
	6.685	7.055	13233262	14357688	1820	2480	1017.66-1526.49	156.58(H)
	6.838	7.138	21313893	5238181	1460	2700	9646.23-14469.35	252.19(H)
	7.178	8.015	14119737	2077887	1480	917	1126.72-1690.08	167.07(H)
	7.785	8.768	12489153	5711067	1970	1820	281.12- 421.67	147.78(H)
		Average of Peak Amounts =			1780	2200		
Aroclor 1260	7.085	7.838	5856407	700659	595	318	80.00- 120.00	100.00(H)
	8.095	9.275	2613620	1160158	322	307	71.34- 107.00	44.63(H)
	8.652	9.722	1981209	1138101	241	315	72.03- 108.04	33.83(H)
	9.112	10.402	5010843	3639538	267	422	164.68- 247.02	85.56(H)
	9.898	11.028	5334933	2583209	376	462	128.71- 193.06	91.10(H)
		Average of Peak Amounts =			360	365		
Decachlorobiphenyl	12.268	13.628	1923278	658818	12.2	8.00		100.00
Aroclors, Total	0.000	0.000	35339138	15049114	4680	4800		0.00

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F006.D
Report Date: 02-Sep-2015 15:35

QC Flag Legend

H - Operator selected an alternate compound hit.

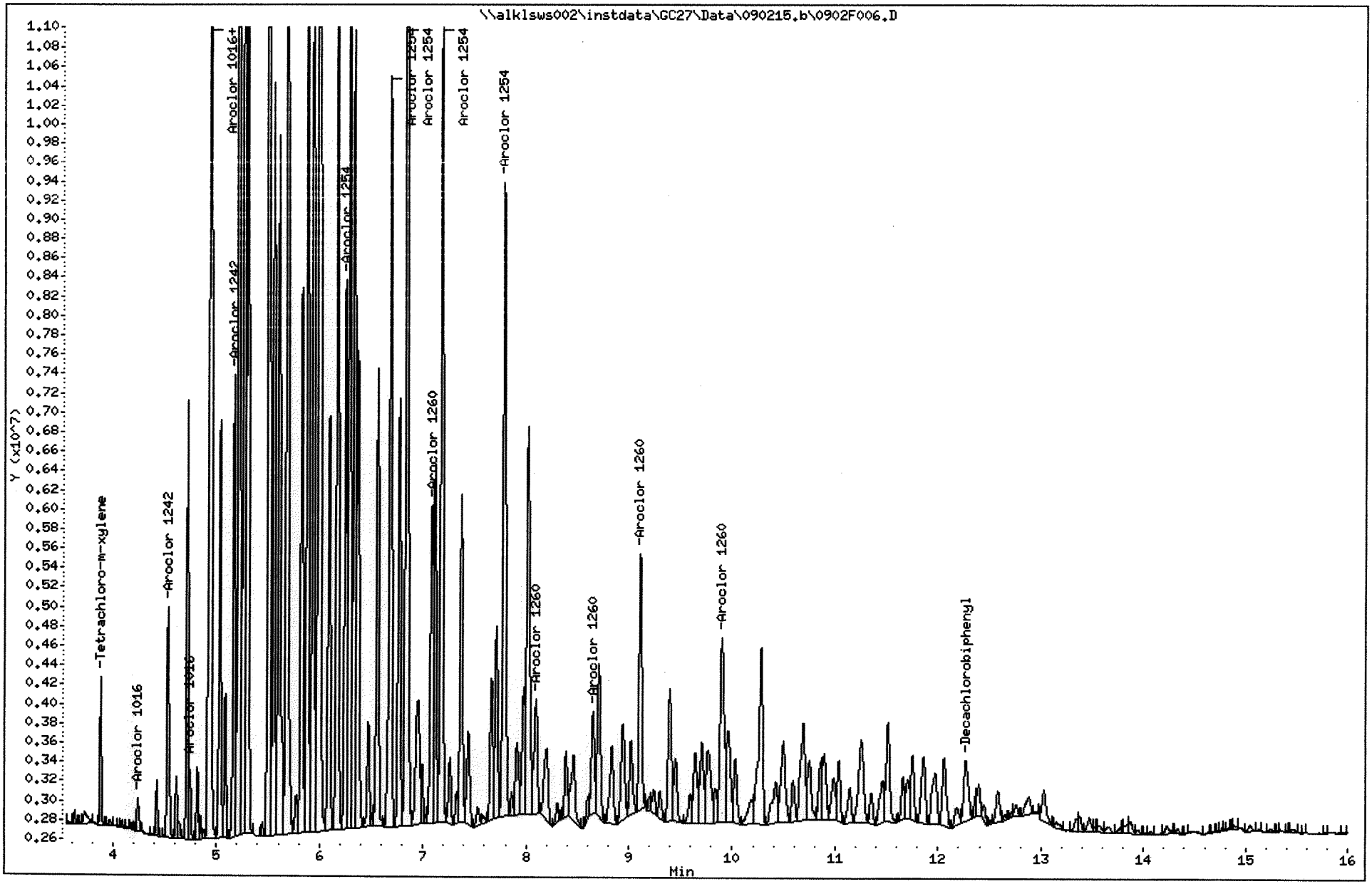
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F006.D
Date : 02-SEP-2015 09:54
Client ID:
Sample Info: K1509039-001MS 10X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

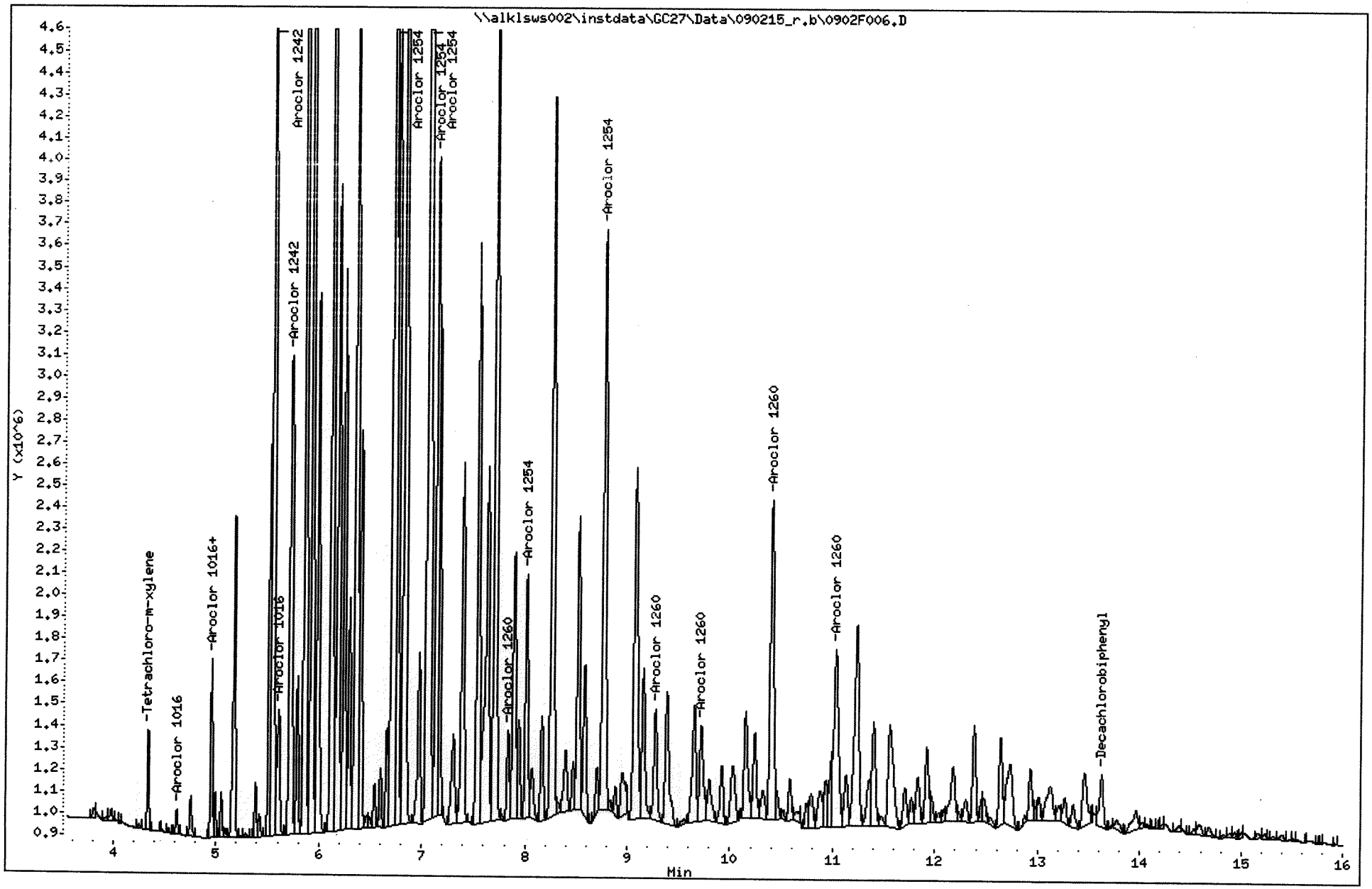


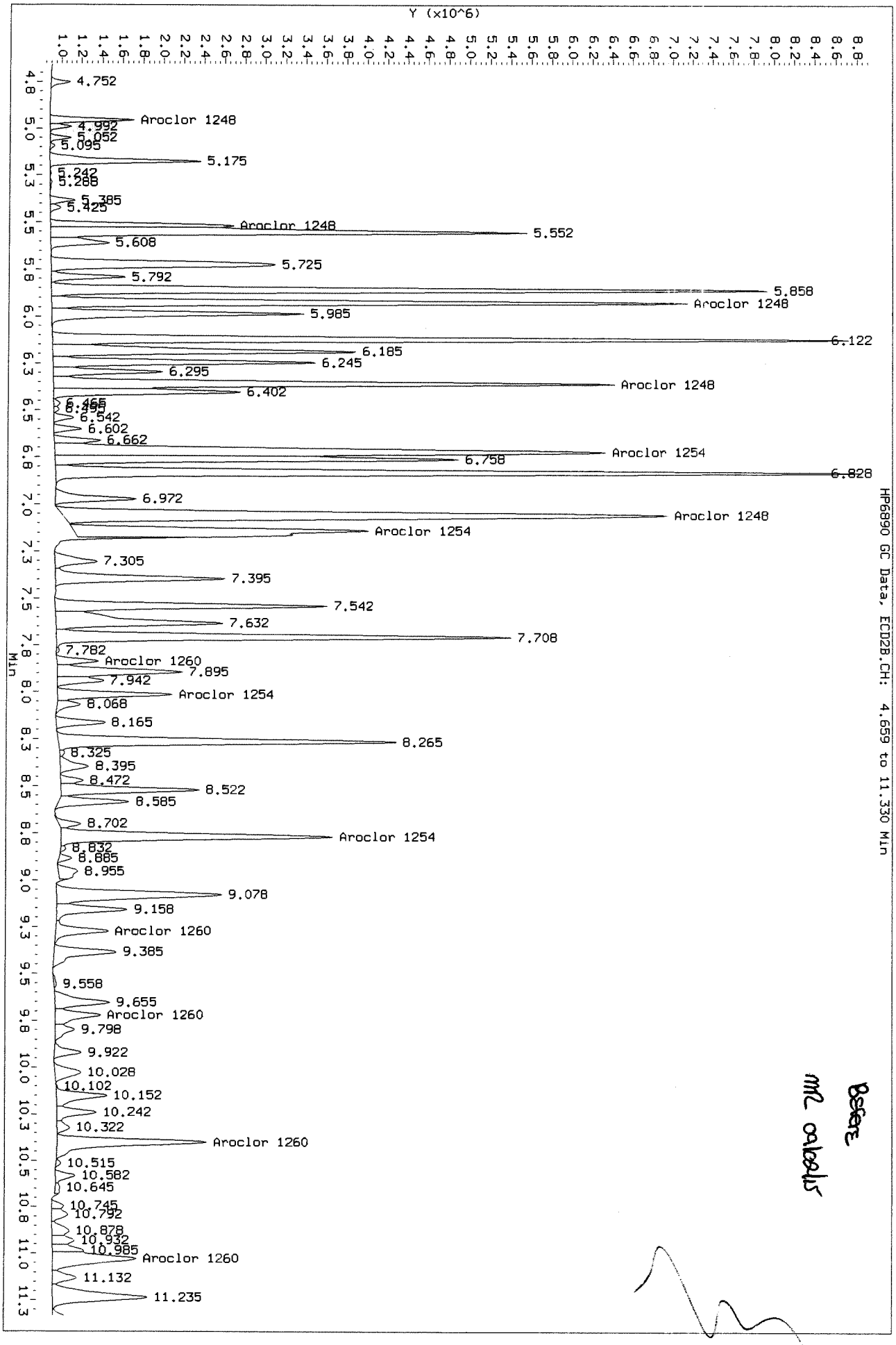
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D
Date : 02-SEP-2015 09:54
Client ID:
Sample Info: K1509039-001MS 10X

Instrument: GC27.i

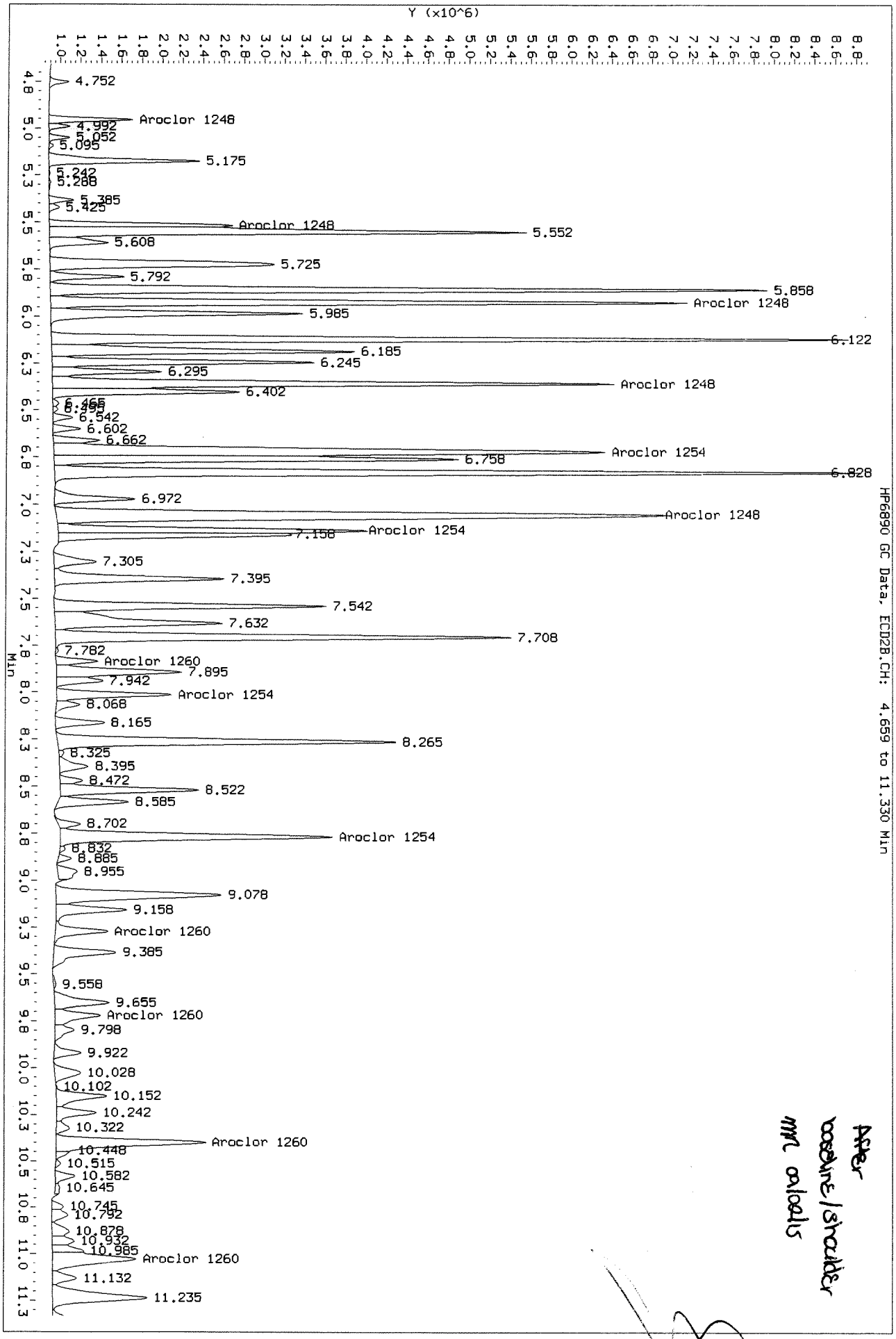
Operator: MR
Column diameter: 0.32

Column phase: DB-XLB




Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D
Injection Date: 02-SEP-2015 09:54
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.659 to 11.330 Min
Y (x10^6)
Min
4.752
Aroclor 1248
4.992
5.052
5.095
5.175
5.242
5.288
5.385
5.425
Aroclor 1248
5.552
5.608
5.725
5.792
5.858
Aroclor 1248
5.985
6.122
6.185
6.245
6.295
Aroclor 1248
6.402
6.465
6.495
6.542
6.602
6.662
Aroclor 1254
6.758
6.828
6.972
Aroclor 1248
Aroclor 1254
7.305
7.395
7.542
7.632
7.708
7.782
Aroclor 1260
7.895
7.942
Aroclor 1254
8.068
8.165
8.265
8.325
8.395
8.472
8.522
8.585
8.702
Aroclor 1254
8.832
8.885
8.955
9.078
9.158
Aroclor 1260
9.385
9.558
9.655
Aroclor 1260
9.798
9.922
10.028
10.102
10.152
10.242
10.322
Aroclor 1260
10.515
10.582
10.645
10.745
10.792
10.878
10.932
10.985
Aroclor 1260
11.132
11.235
Before
MR 0a6a6b

Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F006.D
Injection Date: 02-SEP-2015 09:54
Instrument: GC27.i
Client Sample ID:



After baseline/shoulder mr analysis

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F007.D
Lab ID: KWG1507856-2 -- K1509039-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/02/2015 10:18
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 09/03/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F007.D
Lab ID: KWG1507856-2 -- K1509039-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/02/2015 10:18
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MMR 09/03/15

Secondary Review:

Printed: 09/03/2015 09:03:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D			**Vial:**	8
Acqu Date:	09/02/2015 10:18	**Quant Date:**	09/02/2015 15:35	**Dilution:**	10.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507856-2 -- K1509039-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/31/2015

Analysis Lot:	KWG1508411	**Prep Lot:**	KWG1507856	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1460170	**Prep Date:**	08/20/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\083115.B\0831F024.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	+0.00	1493125	507276	8.44	6.45			84	OK
					%Recovery =		84 OK	64 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.00	13.63	+0.01	2055140	786649	13.00	9.55			130	OK
					%Recovery =		130 OK	96 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	414.50	176.65	805D	343D	343PD
Aroclor 1016 {1}	4.24	+0.00	4.62	+0.00	498594	155622m	138.92	84.66	270D	164D	
Aroclor 1016 {2}	4.74	+0.00	4.96	+0.00	578881	429715m	193.21	176.51	375D	343D	
Aroclor 1016 {3}	4.94	+0.01	5.61	+0.02	9014237	806107m	911.35	268.77	1770D	522D	RPD
Aroclor 1016 {4}	5.21	+0.00	5.92	+0.00	0	0m	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}	5.50	+0.00	6.12	+0.01	0	0m	0.0000	0.0000	21U	21U	
Aroclor 1221					0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232					0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242					0	0	769.57	948.20	1500D	1800D	1500D
Aroclor 1242 {1}	4.53		4.96		1718968m	429715m	287.12	236.56	558D	459D	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D			**Vial:**	8
Acqu Date:	09/02/2015 10:18	**Quant Date:**	09/02/2015 15:35	**Dilution:**	10.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507856-2 -- K1509039-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}	4.94	5.55	9014237m	3915178m	1,164	1,188	2260D	2310D	
Aroclor 1242 {3}	5.17	5.72	2687583m	2489292m	857.93	1,420	1670D	2760D	
Aroclor 1242 {4}	5.50	5.92	0m	0m	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}	5.99	6.83	0m	0m	0.0000	0.0000	21U	21U	
Aroclor 1248			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1254			0	0	1,489	1,582	2900D	3100D	**2900D**
Aroclor 1254 {1}	6.25	6.72	6679579	8180208m	1,717	2,226	3330D	4320D	
Aroclor 1254 {2}	6.68	7.05	10846302	10998249m	1,494	1,898	2900D	3690D	
Aroclor 1254 {3}	6.84	7.16	17668860	2798795m	1,207	1,445	2340D	2810D	
Aroclor 1254 {4}	7.18	8.01	12256642	1778489m	1,281	785.03	2490D	1520D	
Aroclor 1254 {5}	7.79	8.77	11034199	4884219m	1,743	1,557	3380D	3020D	
Aroclors, Total			23471669	10096799	3,015	3,029	5850JD	5880JD	**5850JD**
Aroclor 1260			0	0	341.92	321.90	664D	625D	**625D**
Aroclor 1260 {1}	7.08 +0.01	7.84 +0.01	5040998	608340m	511.75	275.78	994D	536D	
Aroclor 1260 {2}	8.10 +0.01	9.27 +0.01	2755402	962927m	339.59	254.75	659D	495D	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	2196404	1065593m	266.85	295.28	518D	573D	
Aroclor 1260 {4}	9.11 +0.01	10.40 +0.00	5307230	3173489m	282.32	367.54	548D	714D	
Aroclor 1260 {5}	9.90 +0.01	11.03 +0.01	4385232	2324307m	309.11	416.15	600D	808D	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	22.342 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	92.2 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul. fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F007.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D
Inj Date : 02-SEP-2015 10:18
Sample Info: K1509039-001DMS 10X
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	1493125	507276	8.43	6.45		100.00
Aroclor 1016	4.240	4.620	498594	155622	139	84.7	80.00- 120.00	100.00(H)
	4.743	4.957	578881	429715	193	177	66.46- 99.69	116.10(H)
	4.940	5.610	9014237	806107	911	269	193.66- 290.48	1807.93(H)
	5.210	5.923					91.62- 137.43	0.00(H)
	5.503	6.120					89.89- 134.83	0.00(H)
		Average of Peak Amounts =			414	177		
Aroclor 1242	4.530	4.957	1718968	429715	287	237	80.00- 120.00	100.00(MH)
	4.940	5.550	9014237	3915178	1160	1190	148.40- 222.61	524.40(MH)
	5.167	5.717	2687583	2489292	858	1420	37.98- 56.97	156.35(MH)
	5.503	5.923					73.04- 109.55	0.00(MH)
	5.993	6.830					92.76- 139.15	0.00(MH)
		Average of Peak Amounts =			768	949		
Aroclor 1254	6.250	6.720	6679579	8180208	1720	2230	80.00- 120.00	100.00(H)
	6.683	7.053	10846302	10998249	1490	1900	1017.66-1526.49	162.38(H)
	6.840	7.160	17668860	2798795	1210	1440	9646.23-14469.35	264.52(H)
	7.180	8.013	12256642	1778489	1280	785	1126.72-1690.08	183.49(H)
	7.787	8.770	11034199	4884219	1740	1560	281.12- 421.67	165.19(H)
		Average of Peak Amounts =			1490	1580		
Aroclor 1260	7.083	7.837	5040998	608340	512	276	80.00- 120.00	100.00(H)
	8.097	9.273	2755402	962927	340	255	71.34- 107.00	54.66(H)
	8.650	9.720	2196404	1065593	267	295	72.03- 108.04	43.57(H)
	9.113	10.400	5307230	3173489	282	368	164.68- 247.02	105.28(H)
	9.900	11.030	4385232	2324307	309	416	128.71- 193.06	86.99(H)
		Average of Peak Amounts =			342	322		
Decachlorobiphenyl	12.263	13.627	2055140	786649	13.0	9.55		100.00
Aroclors, Total	0.000	0.000	23471669	10096799	3010	3030		0.00

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F007.D
Report Date: 02-Sep-2015 15:35

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

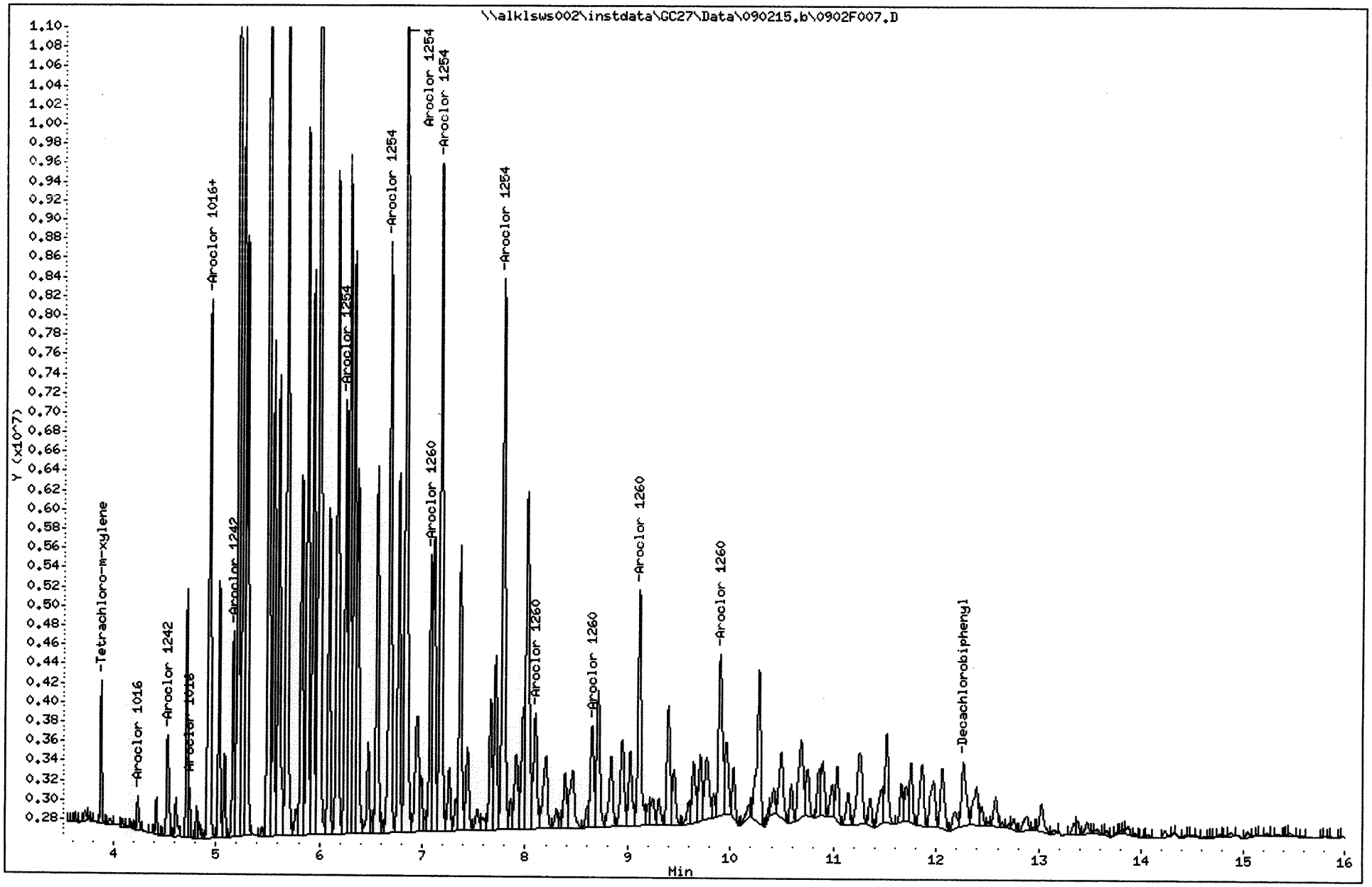
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F007.D
Date : 02-SEP-2015 10:18
Client ID:
Sample Info: K1509039-001DMS 10X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



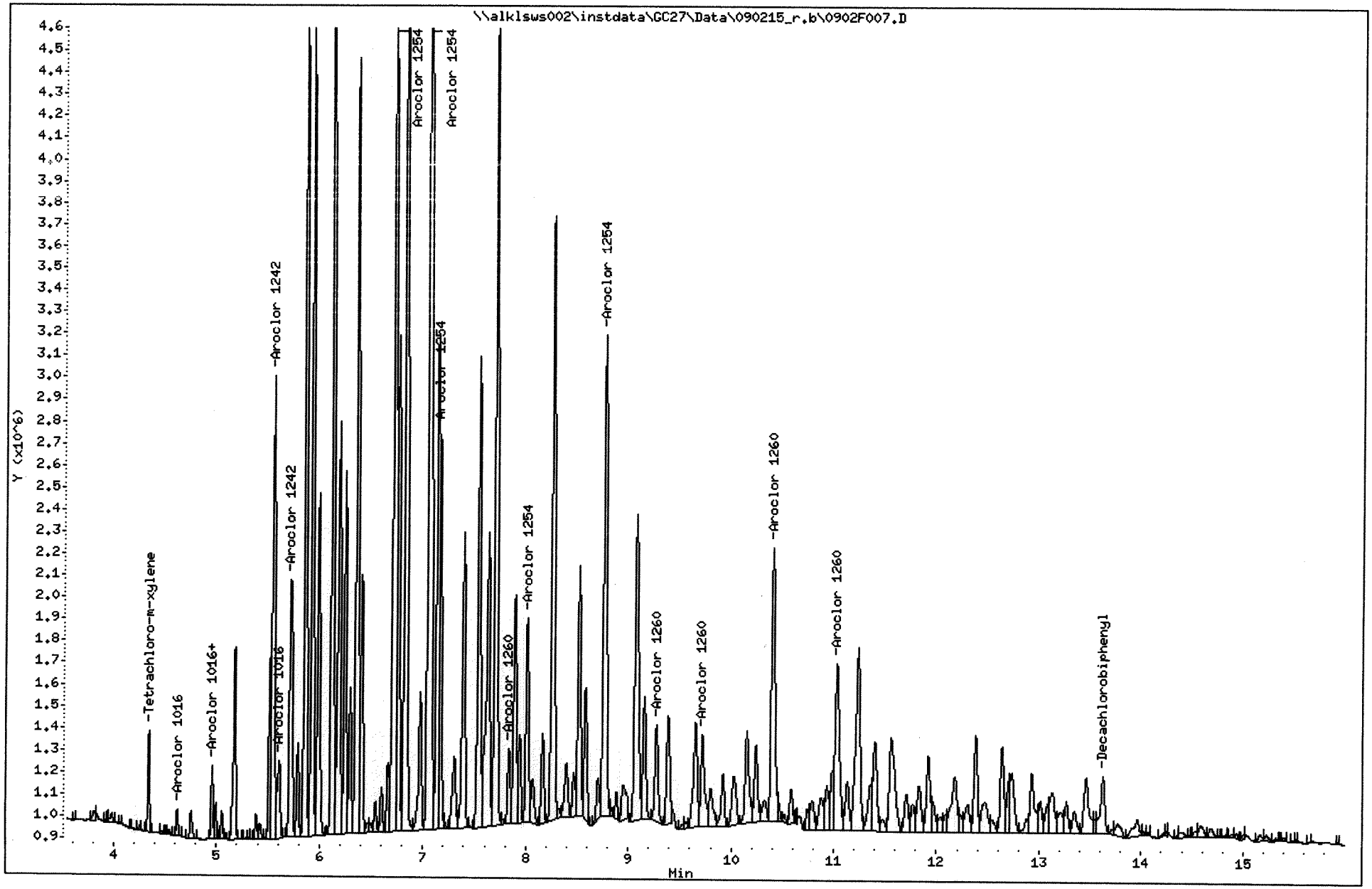
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D
Date : 02-SEP-2015 10:18
Client ID:
Sample Info: K1509039-001DMS 10X

Instrument: GC27.i

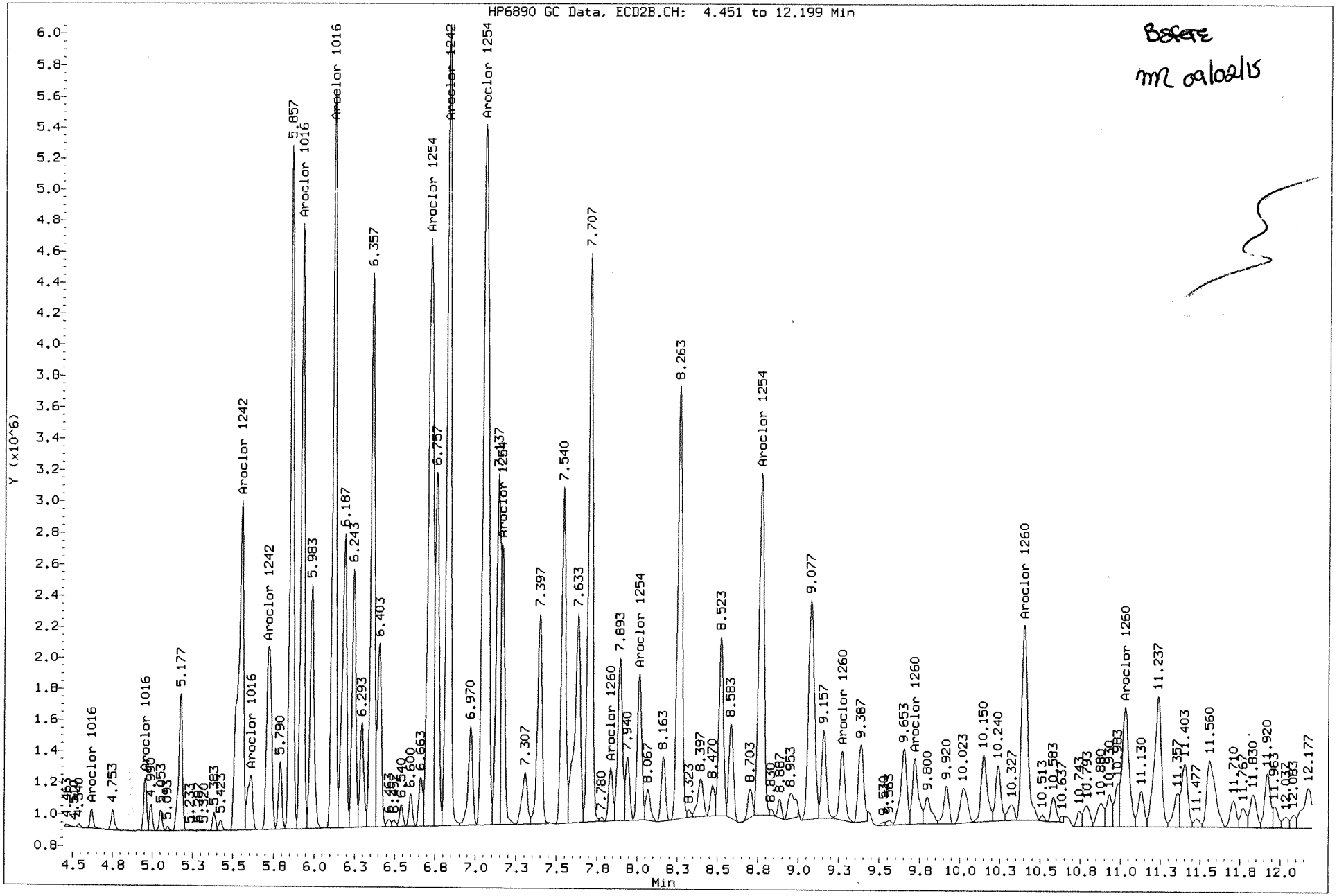
Operator: MR

Column phase: DB-XLB

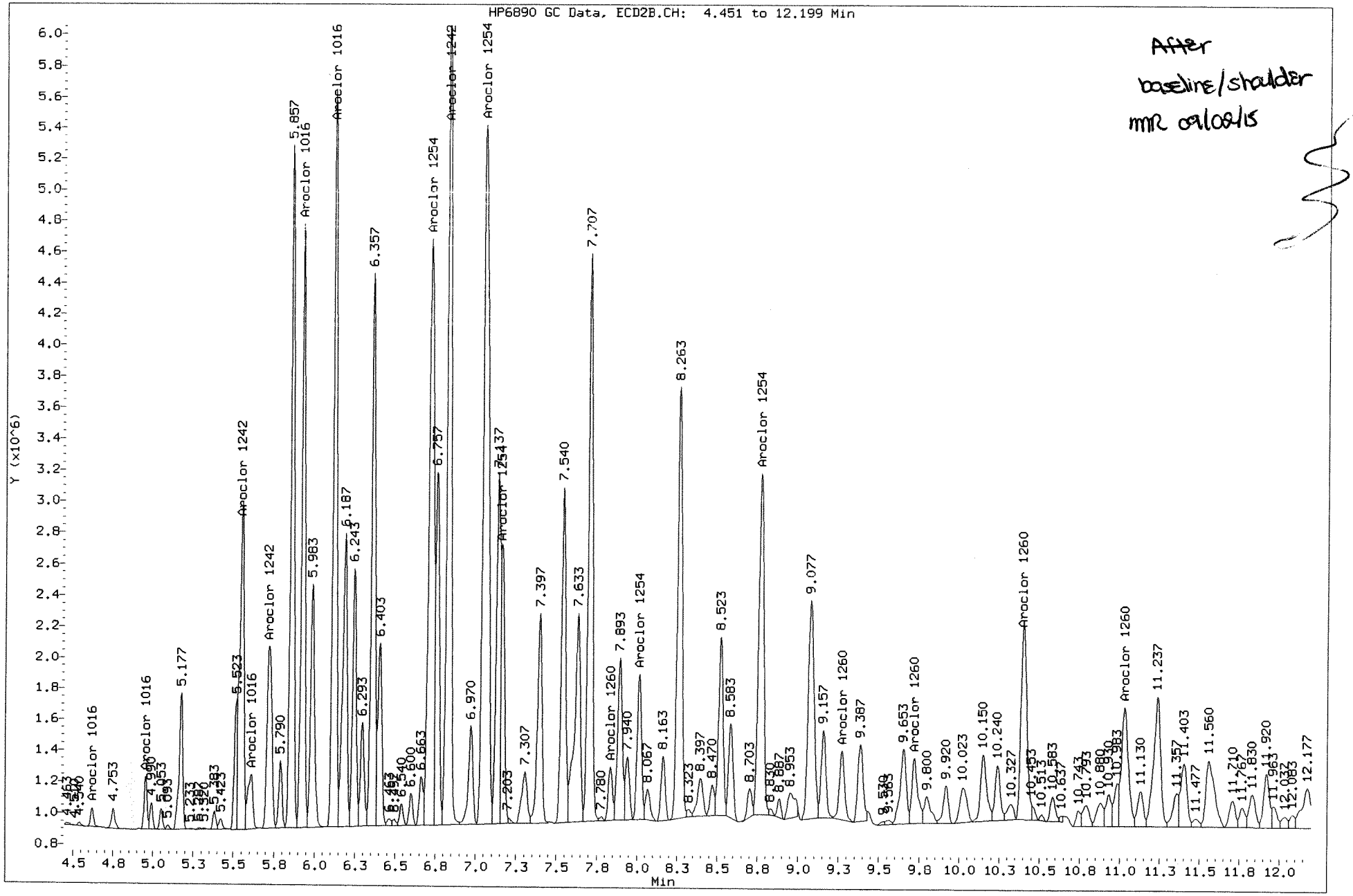
Column diameter: 0.32



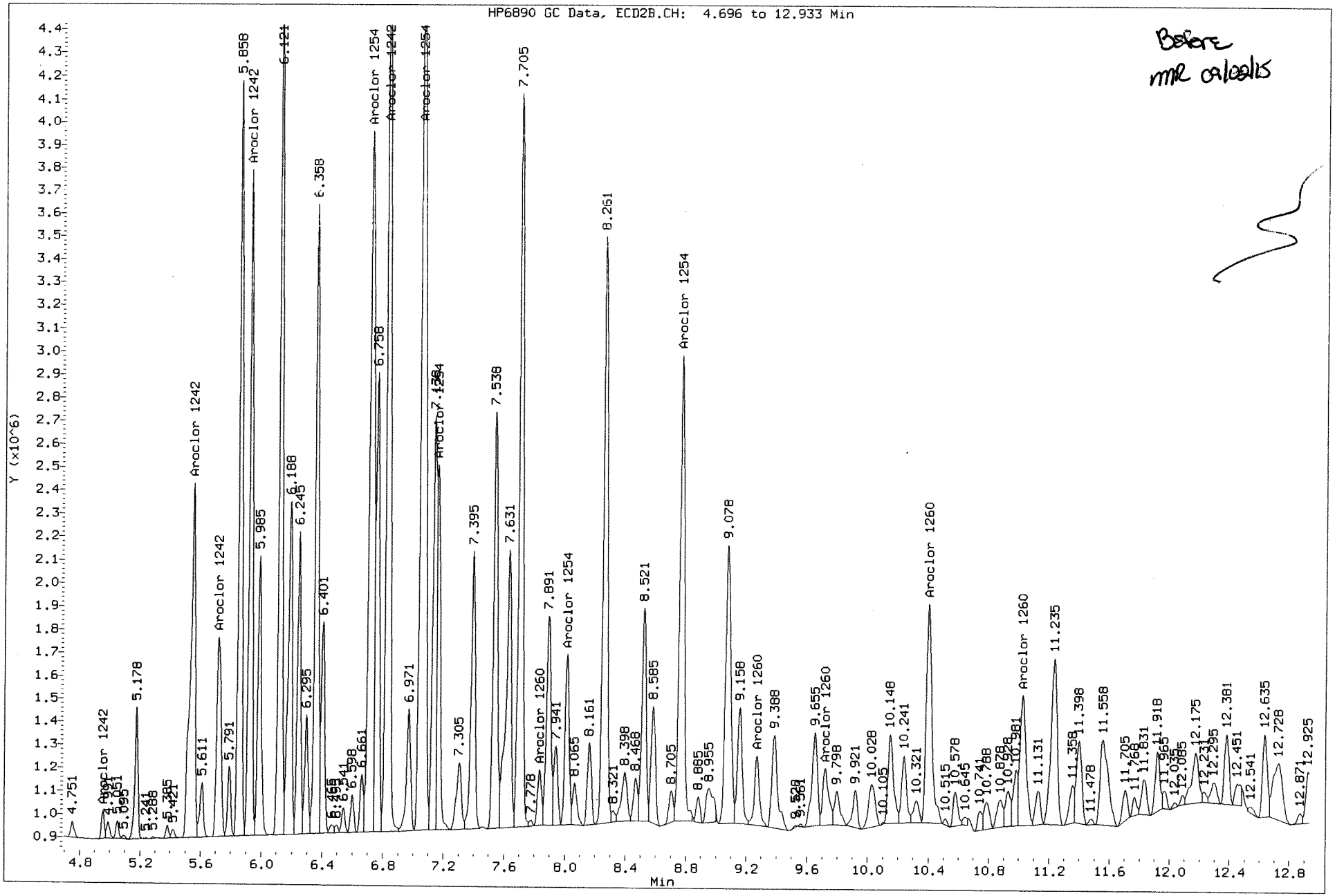
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D
Injection Date: 02-SEP-2015 10:18
Instrument: GC27.i
Client Sample ID:



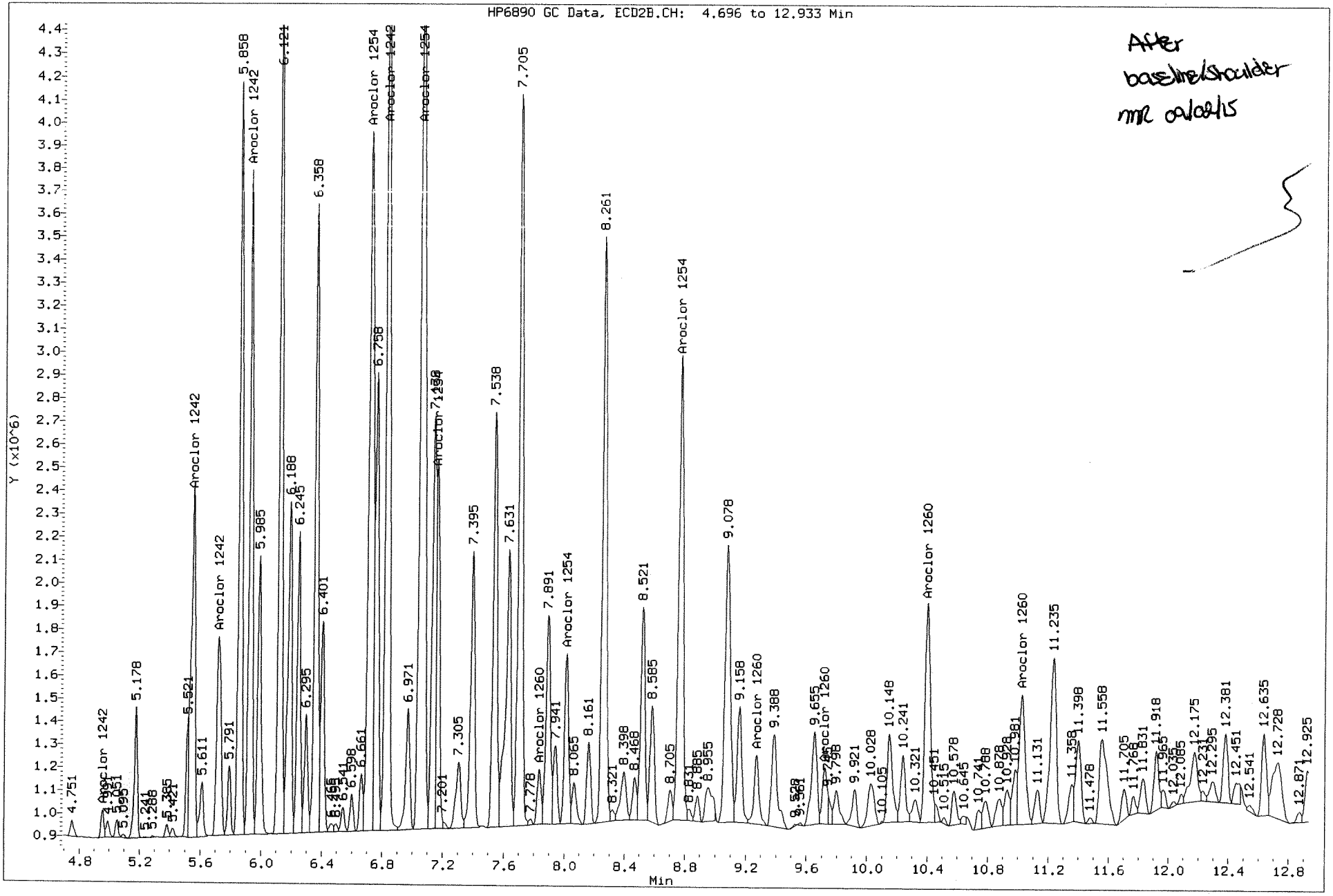
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F007.D
Injection Date: 02-SEP-2015 10:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D
Injection Date: 02-SEP-2015 10:42
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F008.D
Injection Date: 02-SEP-2015 10:42
Instrument: GC27.i
Client Sample ID:



Injection Log

Directory: J:\GC27\Data\090215.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	0902F001.D	1.	PRIMER		09/02/22015 7:54:1
2	100	0902F002.D	1.	PRIMER		09/02/22015 8:18:0
3	1	0902F003.D	1.	1660 @ 500ppb PCB6-74E		09/02/22015 8:42:0
4	99	0902F004.D	1.	IB		09/02/22015 9:06:1
5	6	0902F005.D	10.	K1509039-001 10X		09/02/22015 9:30:2
6	7	0902F006.D	10.	K1509039-001MS 10X		09/02/22015 9:54:3
7	8	0902F007.D	10.	K1509039-001DMS 10X	Run # 460531	09/02/22015 10:18:5
8	9	0902F008.D	10.	K1509039-002 10X	Col # 13624	09/02/22015 10:42:5
9	1	0902F009.D	1.	1660 @ 500ppb PCB6-74E		09/02/22015 11:07:0
10	99	0902F010.D	1.	IB	KWG1508411	09/02/22015 11:31:1
11	10	0902F011.D	1.	KWG1508274-3 LCS		09/02/22015 11:55:2
12	11	0902F012.D	1.	KWG1508274-4 MB		09/02/22015 12:19:3
13	12	0902F013.D	1.	K1509480-001		09/02/22015 12:42:5
14	13	0902F014.D	1.	K1509480-001 MS		09/02/22015 1:07:1
15	14	0902F015.D	1.	K1509480-001 DMS		09/02/22015 1:31:3
16	15	0902F016.D	1.	K1509480-002		09/02/22015 1:56:1
17	16	0902F017.D	1.	KWG1508260-1 LCS		09/02/22015 2:20:3
18	17	0902F018.D	1.	KWG1508260-2 DLCS		09/02/22015 2:44:5
19	18	0902F019.D	1.	KWG1508260-3 MB		09/02/22015 3:09:2
20	19	0902F020.D	1.	K1509281-001 Hg cleanup		09/02/22015 3:33:4
21	20	0902F021.D	1.	K1509281-002		09/02/22015 3:58:0
22	21	0902F022.D	1.	K1509476-001		09/02/22015 4:22:2
23	22	0902F023.D	1.	K1509489-001		09/02/22015 4:46:4
24	1	0902F024.D	1.	1660 @ 500ppb PCB6-74E		09/02/22015 5:11:0
25	99	0902F025.D	1.	IB		09/02/22015 5:35:3

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F003.D
Lab ID: KWG1508411-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 08:42
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: mrg 09/08/15

Secondary Review:

Printed: 09/03/2015 09:02:26
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F003.D
Lab ID: KWG1508411-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 08:42
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	IOU Dual

Primary Review: [signature] 09/03/15

Secondary Review: [signature]

Printed: 09/03/2015 09:02:30
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F003.D			**Vial:**	1
Acqu Date:	09/02/2015 08:42	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/02/2015

Analysis Lot:	KWG1508411	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	10004670	3532390	56.52	44.91			NA
				%Recovery =	NA	NA	Limits =	20-123	
Decachlorobiphenyl	12.26	13.62	8317309	4067227	52.60	49.39			NA
				%Recovery =	NA	NA	Limits =	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	486.88	410.53			
Aroclor 1016 {1}	4.24	4.62	1844204	768805	513.85	418.26			
Aroclor 1016 {2}	4.74	4.95	1537444	1004687	513.15	412.67			
Aroclor 1016 {3}	4.94	5.59	4543661	1223517	459.37	407.94			
Aroclor 1016 {4}	5.21	5.92	2380757	894175	479.87	407.37			
Aroclor 1016 {5}	5.50	6.12	2423365	876262	468.15	406.43			
Aroclor 1260			0	0	497.40	478.72			
Aroclor 1260 {1}	7.08	7.83	4644932	972910	471.54	441.05			
Aroclor 1260 {2}	8.09	9.27	4084075	1821528	503.35	481.91			
Aroclor 1260 {3}	8.65	9.72	4128865	1747133	501.63	484.13			
Aroclor 1260 {4}	9.11	10.40	9328239	4200042	496.22	486.43			
Aroclor 1260 {5}	9.89	11.03	7295931	2793275	514.28	500.11			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F003.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F003.D
Inj Date : 02-SEP-2015 08:42
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.339	10004670	3532390	56.5	44.9		100.00
Aroclor 1016	4.238	4.619	1844204	768805	514	418	80.00- 120.00	100.00
	4.742	4.952	1537444	1004687	513	413	66.46- 99.69	83.37
	4.935	5.589	4543661	1223517	459	408	193.66- 290.48	246.38
	5.208	5.922	2380757	894175	480	407	101.25- 151.88	129.09
	5.498	6.115	2423365	876262	468	406	104.03- 156.05	131.40
		Average of Peak Amounts =			487	410		
Aroclor 1260	7.075	7.832	4644932	972910	472	441	80.00- 120.00	100.00
	8.092	9.265	4084075	1821528	503	482	71.34- 107.00	87.93
	8.645	9.715	4128865	1747133	502	484	72.03- 108.04	88.89
	9.108	10.395	9328239	4200042	496	486	164.68- 247.02	200.83
	9.892	11.025	7295931	2793275	514	500	128.71- 193.06	157.07
		Average of Peak Amounts =			497	479		
Decachlorobiphenyl	12.262	13.622	8317309	4067227	52.6	49.4		100.00

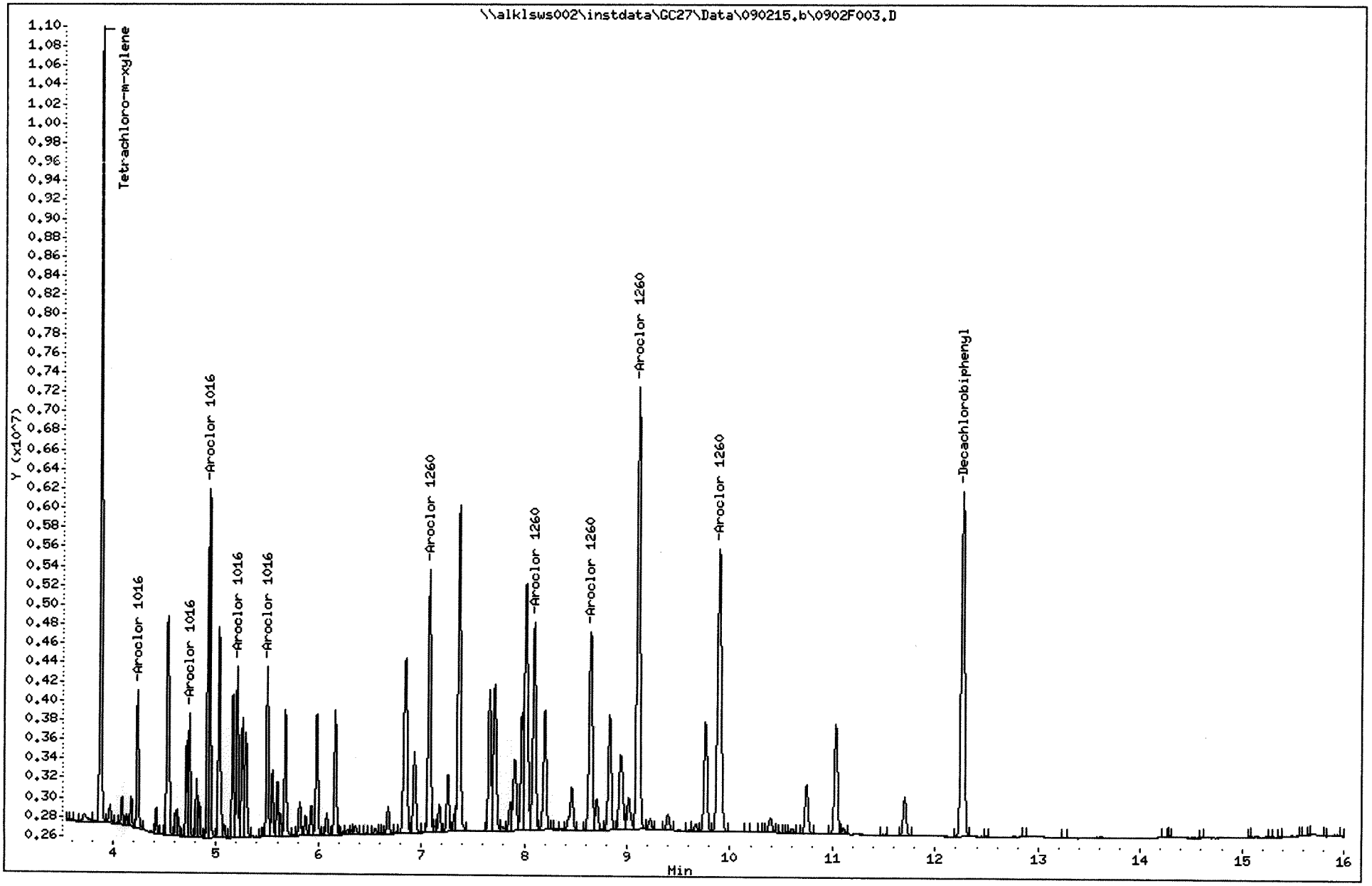
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F003.D
Date : 02-SEP-2015 08:42
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



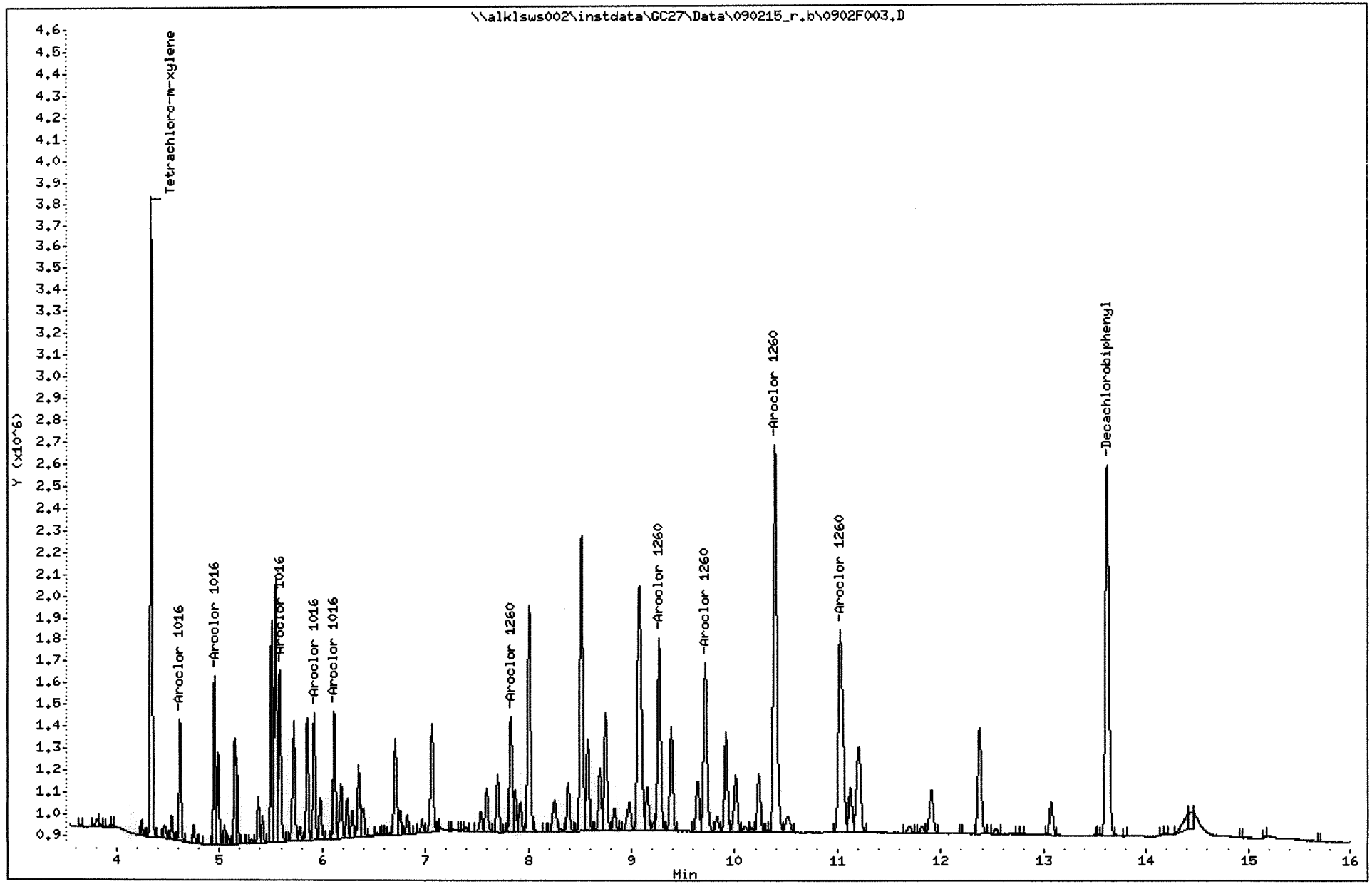
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F003.D
Date : 02-SEP-2015 08:42
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F004.D
Lab ID: KWG1508411-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 09:06
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OL

Primary Review: MR 09/03/15

Secondary Review: _____

Printed: 09/03/2015 09:02:34
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F004.D
Lab ID: KWG1508411-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 09:06
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dud

Primary Review: MR 09/03/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F004.D			**Vial:**	99
Acqu Date:	09/02/2015 09:06	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/02/2015

Analysis Lot:	KWG1508411	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.87		14779	0	0.0830	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	20-123	
Decachlorobiphenyl	12.27	13.61	18132	5154	0.1150	0.0630			NA
			%Recovery =		NA	NA	**Limits =**	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0d	0.0000	0.0000			
Aroclor 1016 {2}			0d	0d	0.0000	0.0000			
Aroclor 1016 {3}			0d	0d	0.0000	0.0000			
Aroclor 1016 {4}			0d	0d	0.0000	0.0000			
Aroclor 1016 {5}			0d	0d	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0d	0	0.0000	0.0000			
Aroclor 1221 {2}			0d	0	0.0000	0.0000			
Aroclor 1221 {3}			0d	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0d	0d	0.0000	0.0000			
Aroclor 1232 {2}			0d	0d	0.0000	0.0000			
Aroclor 1232 {3}			0d	0d	0.0000	0.0000			
Aroclor 1232 {4}			0d	0d	0.0000	0.0000			
Aroclor 1232 {5}			0d	0d	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F004.D			**Vial:**	99
Acqu Date:	09/02/2015 09:06	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000			
Aroclor 1242 {3}			0d	0d	0.0000	0.0000			
Aroclor 1242 {4}			0d	0d	0.0000	0.0000			
Aroclor 1242 {5}			0d	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F004.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F004.D
Inj Date : 02-SEP-2015 09:06
Sample Info: IB
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.874	0.000	14779	0	0.0835	0.000		100.00
Decachlorobiphenyl	12.270	13.610	18132	5154	0.115	0.0626		100.00

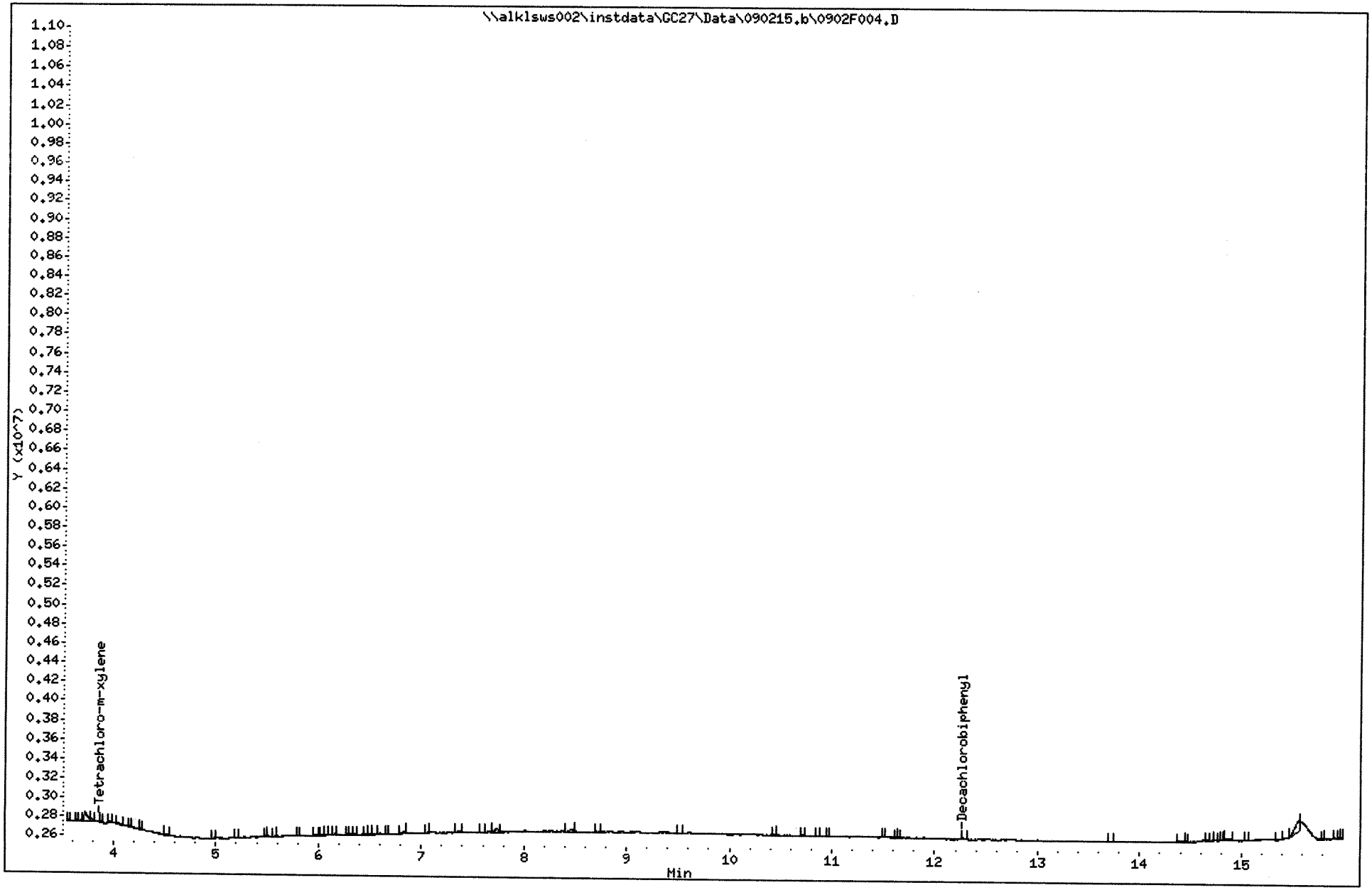
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F004.D
Date : 02-SEP-2015 09:06
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



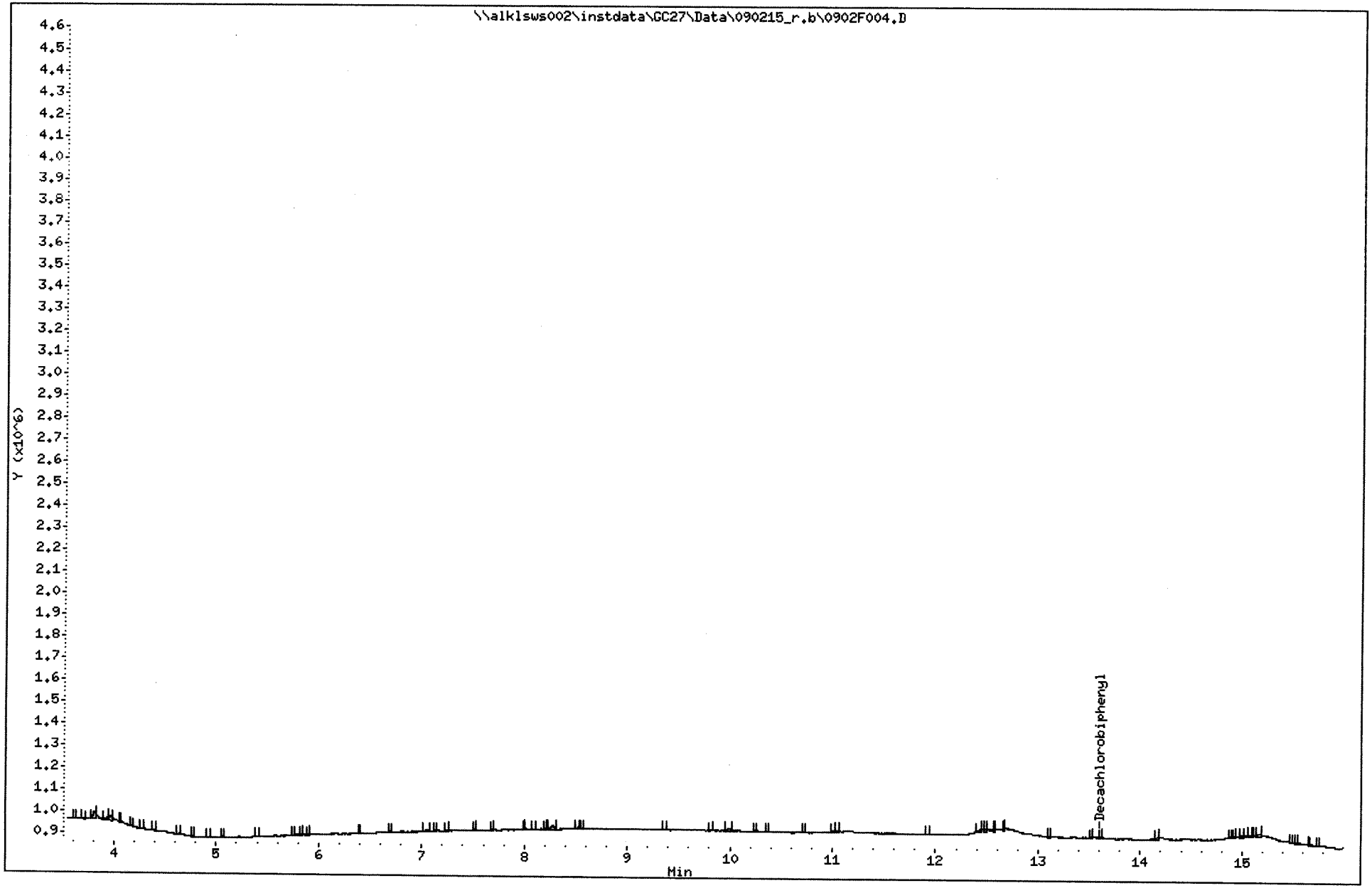
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F004.D
Date : 02-SEP-2015 09:06
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F005.D
Lab ID: K1509039-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/02/2015 09:30
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/03/15

Secondary Review: [signature]

Printed: 09/03/2015 09:02:43
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F009.D
Lab ID: KWG1508411-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 11:07
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/03/15

Secondary Review: [signature]

Printed: 09/03/2015 09:03:18
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F009.D
Lab ID: KWG1508411-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 11:07
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JCV Qual

Primary Review: AMZ 09/03/15

Secondary Review: _____

Printed: 09/03/2015 09:03:22
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F009.D			**Vial:**	1
Acqu Date:	09/02/2015 11:07	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/02/2015

Analysis Lot:	KWG1508411	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9966642	3871740	56.30	49.22				NA
				%Recovery =	NA	NA	Limits =	20-123		
Decachlorobiphenyl	12.26	13.62	8414411	4232494	53.21	51.40				NA
				%Recovery =	NA	NA	Limits =	49-133		

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	476.62	433.63			
Aroclor 1016 {1}	4.24	4.62	1823373	820393	508.05	446.32			
Aroclor 1016 {2}	4.74	4.96	1514835	1080092	505.61	443.65			
Aroclor 1016 {3}	4.94	5.59	4413828	1267356	446.24	422.56			
Aroclor 1016 {4}	5.21	5.93	2307766	939561	465.16	428.04			
Aroclor 1016 {5}	5.50	6.12	2371129	921807	458.06	427.55			
Aroclor 1260			0	0	495.54	497.19			
Aroclor 1260 {1}	7.08	7.83	4557058	1045847	462.62	474.12			
Aroclor 1260 {2}	8.09	9.27	4063523	1877806	500.81	496.80			
Aroclor 1260 {3}	8.65	9.72	4102966	1820805	498.48	504.54			
Aroclor 1260 {4}	9.11	10.40	9380572	4333448	499.00	501.88			
Aroclor 1260 {5}	9.89	11.03	7331596	2840914	516.79	508.64			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F009.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F009.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F009.D
Inj Date : 02-SEP-2015 11:07
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	9966642	3871740	56.3	49.2		100.00
Aroclor 1016	4.238	4.621	1823373	820393	508	446	80.00- 120.00	100.00
	4.744	4.955	1514835	1080092	506	444	66.46- 99.69	83.08
	4.938	5.591	4413828	1267356	446	423	193.66- 290.48	242.07
	5.211	5.925	2307766	939561	465	428	101.25- 151.88	126.57
	5.504	6.118	2371129	921807	458	428	104.03- 156.05	130.04
		Average of Peak Amounts =			477	434		
Aroclor 1260	7.078	7.831	4557058	1045847	463	474	80.00- 120.00	100.00
	8.094	9.268	4063523	1877806	501	497	71.34- 107.00	89.17
	8.648	9.721	4102966	1820805	498	505	72.03- 108.04	90.04
	9.111	10.398	9380572	4333448	499	502	164.68- 247.02	205.85
	9.894	11.028	7331596	2840914	517	509	128.71- 193.06	160.88
		Average of Peak Amounts =			496	497		
Decachlorobiphenyl	12.264	13.621	8414411	4232494	53.2	51.4		100.00

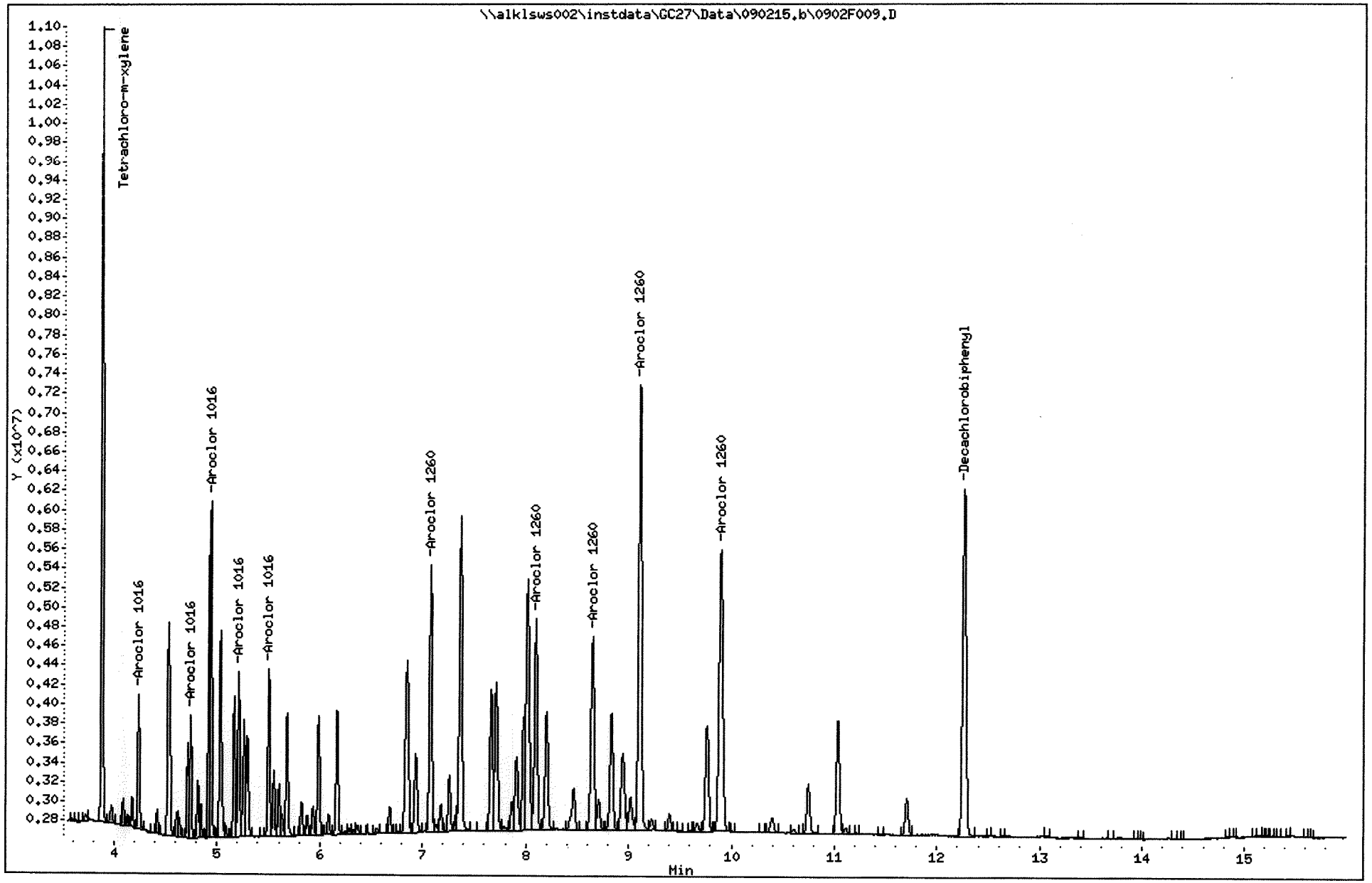
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F009.D
Date : 02-SEP-2015 11:07
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



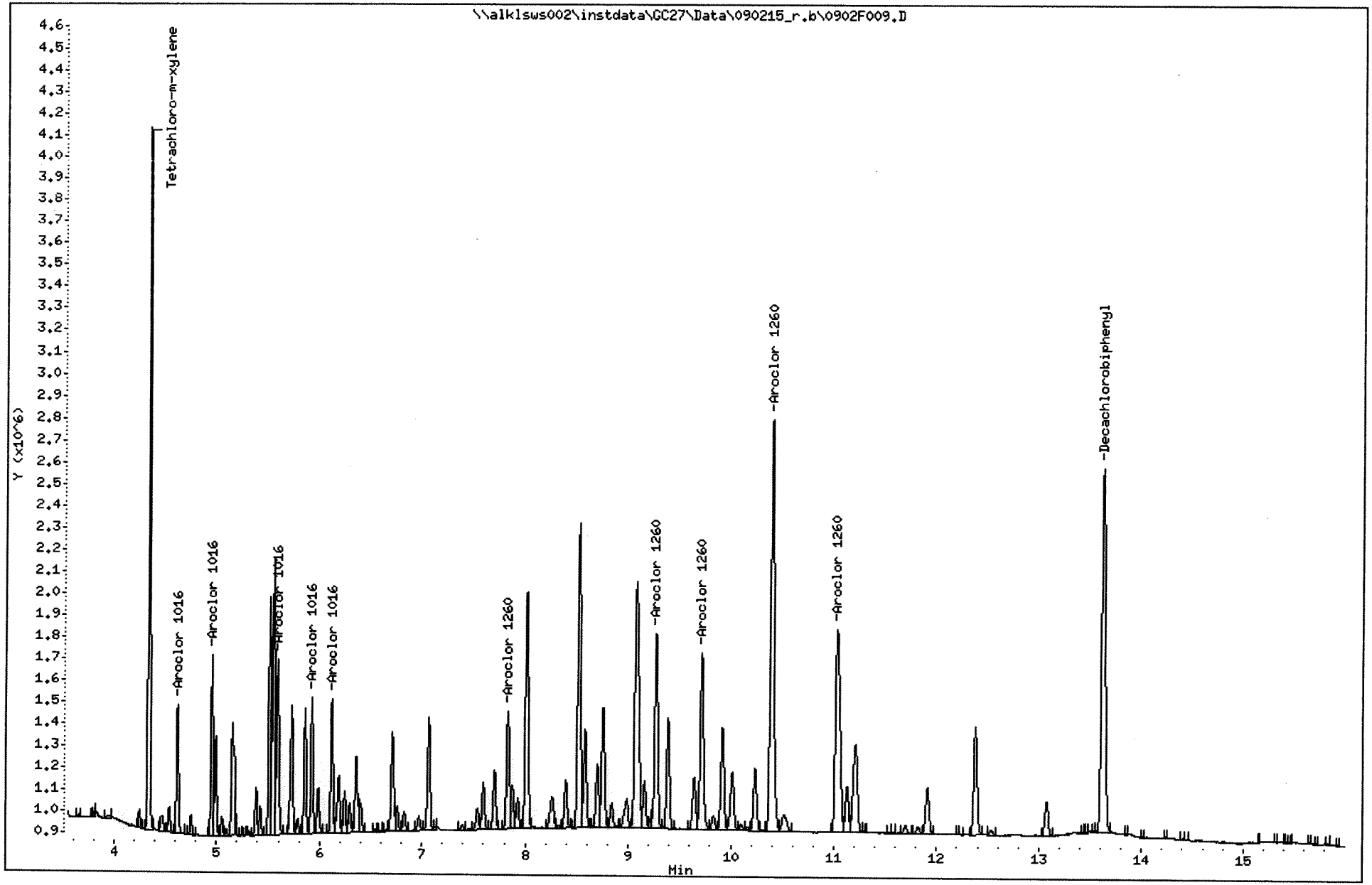
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F009.D
Date : 02-SEP-2015 11:07
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\0902F010.D
Lab ID: KWG1508411-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 11:31
Date Quantitated: 09/02/2015 15:35
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV d

Primary Review: MR 09/03/15

Secondary Review: [illegible]

Printed: 09/03/2015 09:03:27
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\090215_R.B\0902F010.D
Lab ID: KWG1508411-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/02/2015 11:31
Date Quantitated: 09/02/2015 15:36
Batch ID: KWG1508411
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Did

Primary Review: MR 09/03/15

Secondary Review:

Printed: 09/03/2015 09:03:32
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\090215.B\0902F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F010.D			**Vial:**	99
Acqu Date:	09/02/2015 11:31	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/02/2015

Analysis Lot:	KWG1508411	**Prep Lot:**	KWG1507856	**Report Group:**
Analysis Method:	8082A	**Prep Method:**	EPA 3541	
Prep Ref:	1460160	**Prep Date:**	08/20/2015	

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\090215.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		23361	0	0.1320	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	20-123	
Decachlorobiphenyl	12.27		18512	0	0.1170	0.0000			NR
			%Recovery =		NA	NA	**Limits =**	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			NR
Aroclor 1016 {1}			0d	0d	0.0000	0.0000			
Aroclor 1016 {2}			0d	0d	0.0000	0.0000			
Aroclor 1016 {3}			0d	0d	0.0000	0.0000			
Aroclor 1016 {4}			0d	0d	0.0000	0.0000			
Aroclor 1016 {5}			0d	0d	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			NR
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			NR
Aroclor 1232 {1}			0	0d	0.0000	0.0000			
Aroclor 1232 {2}			0	0d	0.0000	0.0000			
Aroclor 1232 {3}			0	0d	0.0000	0.0000			
Aroclor 1232 {4}			0	0d	0.0000	0.0000			
Aroclor 1232 {5}			0	0d	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			NR
Aroclor 1242 {1}			0d	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\090215.B\0902F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\090215_r.b\0902F010.D			**Vial:**	99
Acqu Date:	09/02/2015 11:31	**Quant Date:**	09/02/2015 15:35	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508411-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000			
Aroclor 1242 {3}			0d	0d	0.0000	0.0000			
Aroclor 1242 {4}			0d	0d	0.0000	0.0000			
Aroclor 1242 {5}			0d	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			NR
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			NR
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			NR
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0d	0.0000	0.0000			
Aroclor 1268 {2}			0	0d	0.0000	0.0000			
Aroclor 1268 {3}			0	0d	0.0000	0.0000			
Aroclor 1268 {4}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F010.D
Report Date: 02-Sep-2015 15:35

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\090215.b\0902F010.D
Sample #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\0902F010.D
Inj Date : 02-SEP-2015 11:31
Sample Info: IB
Misc Info :
Cal Date : 02-SEP-2015 13:26
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\090215.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\090215_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.875	0.000	23361	0	0.132	0.000		100.00
Decachlorobiphenyl	12.265	0.000	18512	0	0.117	0.000		100.00

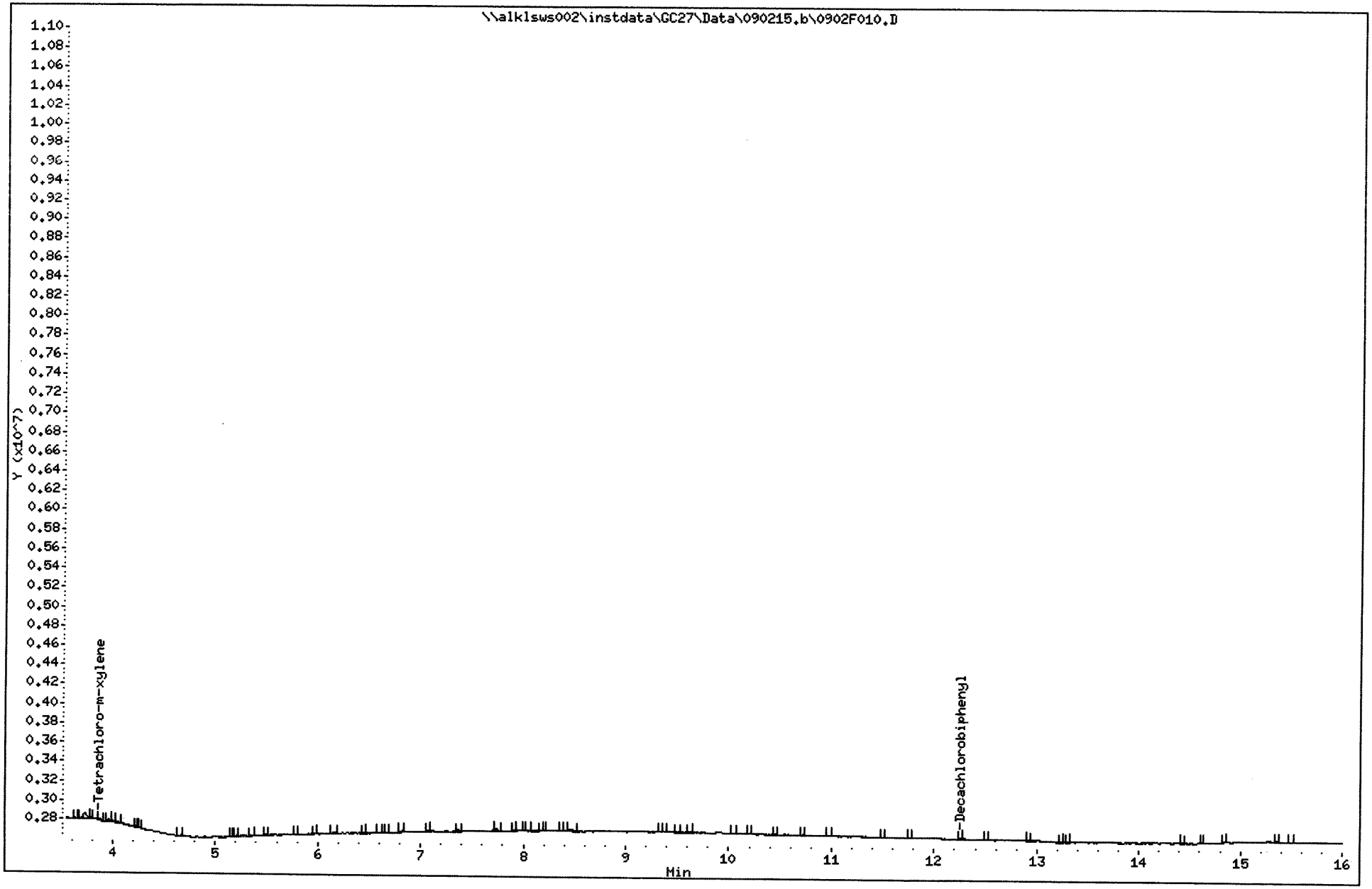
Data File: \\alklsws002\instdata\GC27\Data\090215.b\0902F010.D
Date : 02-SEP-2015 11:31
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



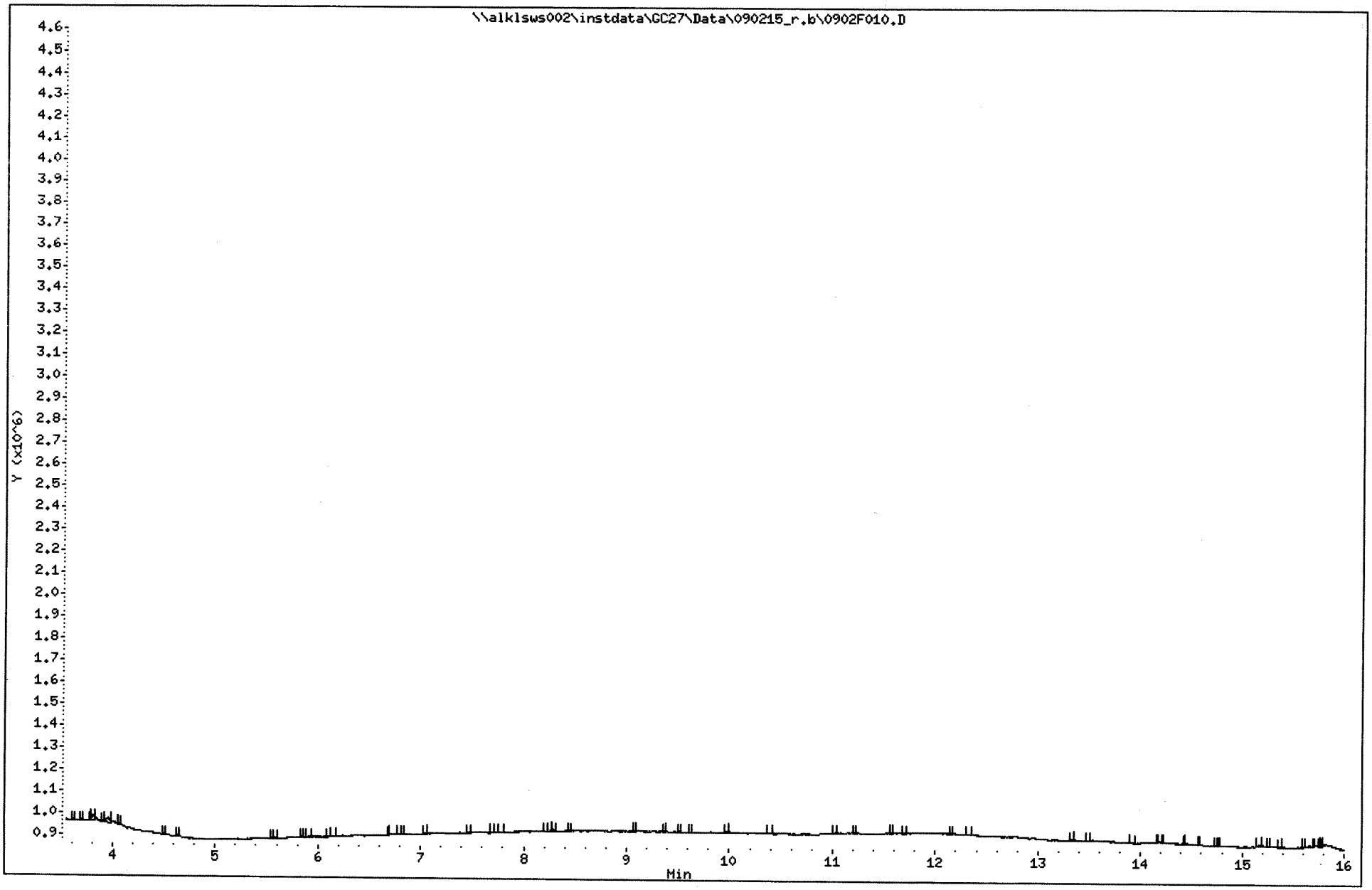
Data File: \\alklsws002\instdata\GC27\Data\090215_r.b\0902F010.D
Date : 02-SEP-2015 11:31
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



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October 8, 2015

Analytical Report for Service Request No: K1509213

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz-Oregon Steel / C1144-0830

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 15, 2015
For your reference, these analyses have been assigned our service request number **K1509213.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1509213
Project:	Evraz-Oregon Steel/ C1144-0830	**Date Received:**	08/21/15-09/15/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two soil samples were received for analysis at ALS Environmental between 08/21/15 and 09/15/15. As instructed, the discreet samples were composited at the laboratory to create one composite sample: Composite. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored frozen at –20ºC upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Chromium, Lead, Manganese and Zinc for sample BF-4 Composite were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Arsenic, Chromium and Manganese in sample BF-4 Composite was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

Elevated Detection Limits:
Sample BF-4 Composite required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Approved by_____

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery for sample BF-4 Composite was not applicable. The analysis of this sample required a dilution such that the added spike concentration was diluted below the reporting limit. No further corrective action was required.

Surrogate Exceptions:
The control criteria for Decachlorobiphenyl in sample BF-4 Composite and associated matrix spikes were not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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ALS Environmental

CHAIN OF CUSTODY

1317 South 13th Ave., Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR# _____

PAGE 1 OF 1 COC# _____

PROJECT NAME: EVRAZ - Oregon Steel
PROJECT NUMBER: C1144-0630
PROJECT MANAGER: Craig Heimbucher / Glenn Esler
COMPANY NAME: Integral Consulting Inc.
ADDRESS: 319 SW Washington St. Suite 1150
CITY/STATE/ZIP: Portland, OR 97204
E-MAIL ADDRESS: cheimbucher@integral-corp.com; gesler@integral-corp.com
PHONE #: 503-943-3629 FAX #: 503-284-5755
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐ SIM PAH☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCBs Aroclors ☒ 8082 Congeners☐	Pesticides/Herbicides 608☐ 8081☐ 8141☐ 8151☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	Metals, Total or Dissolved (See List below) 6020A	Cyanide☐ Hex-Chrom☐	(circle) pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS, Turb.	(circle) NH3-N, COD, TKN, TOC, DOC, NO2+NO3, T-Phos	TOX 9020☐ AOX 1650☐ 506☐	Alkalinity☐ CO3☐ HCO3☐	Dioxins/Furans 1613☐ 8290☐	Dissolved Gases CO2☐ RSK 175☐ Methane☐ Ethane☐ Ethene☐				REMARKS
BF-4	8/20/15	15:30		Soil	2					X			X												

[signature] 8/20/15

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
X IV. Data Validation Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 day
X Standard (15 working days)
___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al (As) Sb Ba Be B Ca (Cd) Co (Cr) (Cu) Fe (Pb) Mg (Mn) Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
[signature]	8/21/15 1045	[signature]	8-21-15 10:45			[signature]	8/21/15 1215
Signature	Date/Time	Signature	Date/Time	Signature	Date/Time	Signature	Date/Time
Andrew Halstead	Integral	[signature]	ALS			SWOLF	ALS
Printed Name	Firm	Printed Name	Firm	Printed Name	Firm	Printed Name	Firm

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PC 65

Cooler Receipt and Preservation Form

Client / Project: Integral - Evraz Service Request K15 9213

Received: 8/21/15 Opened: 8/21/15 By: [illegible] Unloaded: 8/21/15 By: [illegible]

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? one, front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.1	0.0	2.5	2.4	-0.1	354			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

Karla Smith

From: Gregory Salata
Sent: Friday, August 21, 2015 1:06 PM
To: Anna Rynevich; Fran Adair; Karla Smith; Les Kennedy; Sandra Davis; Sydney Wolf
Subject: FW: Another courier pickup
Importance: High

Take our short online customer survey for a chance to win a FREE iPad!
Gregory Salata, Ph.D.

Client Services Manager
ALS Life Sciences Division | Environmental
1317 S. 13th Ave.
Kelso, WA 98626 USA

D +1 360 501 3376
T +1 360 577 7222 x3376
F +1 360 636 1068
http://www.alsglobal.com/

From: Andrew Halmstad [mailto:ahalmstad@integral-corp.com]
Sent: Friday, August 21, 2015 12:02 PM
To: Gregory Salata
Cc: Craig Heimbucher; Glenn Esler; Jane Sund
Subject: RE: Another courier pickup
Importance: High

Greg,

I have a request on the sample that Barbie picked up this morning from Integral's downtown office. The sample is for EVRAZ-Oregon Steel.

Please freeze the sample as soon as it arrives and hold it pending receipt of another set of sample containers to add and composite. We will pass along additional details on when the remainder of the sample will arrive, but for now please freeze the sample labeled as "BF-4" (2 containers, soil).

Let us know if you have any questions and please confirm that you can complete the request on this sample.

Best Regards,
Andrew J. Halmstad | Engineer
Integral Consulting Inc. | www.integral-corp.com
319 SW Washington Street, Suite 1150 | Portland, OR 97204
Direct: 503.943.3633 | Fax: 503.284.5755 | Cell: 503.505.0114

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Gregory Salata [mailto:Gregory.Salata@alsglobal.com]
Sent: Thursday, August 20, 2015 2:26 PM
To: Andrew Halmstad
Cc: Barbie Wygant; Anna Rynevich; Fran Adair; Karla Smith; Les Kennedy; Sandra Davis; Sydney Wolf
Subject: RE: Another courier pickup

Andrew,

I'll have Barbie add this to her Portland run.

Greg

Take our short online customer survey for a chance to win a FREE iPad!

Gregory Salata, Ph.D.

Client Services Manager
ALS Life Sciences Division | Environmental
1317 S. 13th Ave.
Kelso, WA 98626 USA

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T +1 360 577 7222 x3376
F +1 360 636 1068
http://www.alsglobal.com/

From: Andrew Halmstad [mailto:ahalmstad@integral-corp.com]
Sent: Thursday, August 20, 2015 2:21 PM
To: Gregory Salata
Subject: Another courier pickup

Hi Greg,

Can you get us on the schedule for another courier pickup tomorrow morning here at the downtown Portland office. Just one small cooler.

Best Regards,

Andrew J. Halmstad | Engineer
Integral Consulting Inc. | www.integral-corp.com
319 SW Washington Street, Suite 1150 | Portland, OR 97204
Direct: 503.943.3633 | Fax: 503.284.5755 | Cell: 503.505.0114

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

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****

K1509213

CHAIN OF CUSTODY FORM

Project: Evraz Riverbank SCM
Samplers: JSUND

Integral Contact: Glenn Ester
Phone 503 943 3617

Ship to: Lab Name ALS
Address 1317 S 13th Ave
Kelso, WA

Contact Greg Salatzi
Phone

integral consulting inc.

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors								Extra Container	Archive	Comments
BF4-2	2008	9/14/15	1215	SL	X										Hold for instructions

9/14/15

Analysis Turn Time: (Normal) Rush **Rush Results Needed By:**

Shipped by: ALS courier **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) **Date/Time:** 9/15/15 0700 **Received by:** Dwight (signature) **Date/Time:** 9/15/15 12:30

Relinquished by: (signature) **Date/Time:** _____ **Received by:** (signature) **Date/Time:** _____

Special Instructions: This sample to be composited w/ BF4 sample collected on 8/20/15. Follow instructions provided in project QAPP. Call G. Ester w/ questions.

PC 65

Cooler Receipt and Preservation Form

Client / Project: EVRAZ (Integral) Service Request K15 09213

Received: 9-15-15 Opened: 9-15-15 By: DW Unloaded: 9-15-15 By: DW

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.2	0.1	1.2	1.1	-0.1	354			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

0062
0064

Gregory Salata

From: Glenn Esler <gesler@integral-corp.com>
Sent: Tuesday, September 15, 2015 9:54 AM
To: Gregory Salata
Cc: Jane Sund; Craig Heimbucher
Subject: C1144 Evraz

Importance: High

Hi Greg,

As per our phone conversation, Barbie will be delivering sample BF4_2 today. Please composite this sample with sample BF4 (which is currently on hold) and analyze the composite for PCB Aroclors and total metals (As, Cd, Cr, Cu, Pb, Mn, Zn).

Let me know if you have any questions.

Glenn Esler | Scientist
Integral Consulting Inc. | www.integral-corp.com
319 SW Washington Street, Suite 1150 | Portland, OR 97204
Tel: 503.284.5545, Ext. 617 | Fax: 503.284.5755

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

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Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Collected:**	08/20/15
Sample Matrix:	Soil	**Date Received:**	08/21/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-4 Composite	K1509213-003	**88.3**	-	-	1	09/17/15 13:05	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project	Evraz-Oregon Steel/C1144-0830	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1509840-001DUP	-	-	96.6	96.4	96.5	<1	20	09/17/15
Batch QC	K1509894-001DUP	-	-	96.8	96.7	96.8	<1	20	09/17/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals

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www.alsglobal.com

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1509213
Project No.: C1144-0830
Date Collected: 8/20/2015
Project Name: Evraz-Oregon Steel
Date Received: 8/21/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-4 Composite
Lab Code: K1509213-003

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.37	0.03	5.0	09/22/15	09/23/15	8.75		*
Cadmium	6020A	0.015	0.005	5.0	09/22/15	09/23/15	2.88		
Chromium	6020A	2.96	0.89	100.0	09/22/15	09/23/15	317		*
Copper	6020A	1.48	0.59	100.0	09/22/15	09/23/15	97.9		
Lead	6020A	0.74	0.30	100.0	09/22/15	09/23/15	305		
Manganese	6020A	1.48	0.30	100.0	09/22/15	09/23/15	5260		*
Zinc	6020A	7.4	3.0	100.0	09/22/15	09/23/15	690		

% Solids: 88.3

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1509213
Project No.: C1144-0830
Date Collected:
Project Name: Evraz-Oregon Steel
Date Received:
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1510589-01

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.04	5.0	09/22/15	09/23/15	0.04	U	*
Cadmium	6020A	0.020	0.007	5.0	09/22/15	09/23/15	0.007	U	
Chromium	6020A	0.20	0.06	5.0	09/22/15	09/23/15	0.06	U	*
Copper	6020A	0.10	0.04	5.0	09/22/15	09/23/15	0.04	U	
Lead	6020A	0.05	0.02	5.0	09/22/15	09/23/15	0.02	U	
Manganese	6020A	0.10	0.02	5.0	09/22/15	09/23/15	0.02	U	*
Zinc	6020A	0.5	0.2	5.0	09/22/15	09/23/15	0.2	U	

% Solids: 100.0

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic	25.0	26.6	106	25.0	24.8	99	25.1	100	6020A
Cadmium	12.5	13.2	106	25.0	25.3	101	25.0	100	6020A
Chromium	10.0	10.4	104	25.0	24.7	99	24.9	100	6020A
Copper	12.5	13.1	105	25.0	24.8	99	25.0	100	6020A
Lead	25.0	26.6	106	25.0	25.2	101	25.3	101	6020A
Manganese	25.0	25.7	103	25.0	24.8	99	24.6	98	6020A
Zinc	25.0	25.9	104	25.0	25.2	101	24.4	98	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	25.4	102			6020A
Cadmium				25.0	25.2	101			6020A

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1509213

Contract: C1144-0830 **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICVS1									
	Arsenic	0.99	1.0	99	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Cadmium	0.045	0.04	112	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Chromium	0.46	0.4	115	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Copper	0.22	0.2	110	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Lead	0.093	0.10	93	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Manganese	0.093	0.10	93	70.0 - 130.0	MS	9/23/2015	17:09	092315B
	Zinc	0.97	1.0	97	70.0 - 130.0	MS	9/23/2015	17:09	092315B
LLCCVS1									
	Arsenic	1.09	1.0	109	70.0 - 130.0	MS	9/23/2015	17:54	092315B
	Cadmium	0.040	0.04	100	70.0 - 130.0	MS	9/23/2015	17:54	092315B
	Chromium	0.41	0.4	102	70.0 - 130.0	MS	9/23/2015	17:54	092315B
	Copper	0.20	0.2	100	70.0 - 130.0	MS	9/23/2015	17:54	092315B
	Lead	0.096	0.10	96	70.0 - 130.0	MS	9/23/2015	17:54	092315B
	Zinc	0.99	1.0	99	70.0 - 130.0	MS	9/23/2015	17:54	092315B
LLCCVS1 2X									
	Manganese	0.207	0.20	104	70.0 - 130.0	MS	9/23/2015	18:13	092315B
LLCCVS2									
	Arsenic	1.02	1.0	102	70.0 - 130.0	MS	9/23/2015	18:43	092315B
	Cadmium	0.041	0.04	102	70.0 - 130.0	MS	9/23/2015	18:43	092315B

Metals

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BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic	0.08	U	0.08	U	0.08	U	0.08	U	6020A
Cadmium	0.014	U	0.014	U	0.014	U	0.014	U	6020A
Chromium	0.12	U	0.12	U	0.12	U			6020A
Copper	0.08	U	0.08	U	0.08	U			6020A
Lead	0.04	U	0.04	U	0.04	U			6020A
Manganese	0.04	U	0.04	U	0.04	J			6020A
Zinc	0.4	U	0.4	U	0.4	U			6020A

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

ICP ID Number: Agilent ICPMS **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	25.0	0.1	25.0	100			
Cadmium	0.0	25.0	0.1	24.7	99			
Chromium	0.0	50.0	0.2	48.6	97			
Copper	0.0	50.0	0.3	46.4	93			
Lead	0.0		0.1	0.1				
Manganese	0.0	50.0	1.5	49.8	100			
Zinc	0.0	25.0	0.3	24.0	96			

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830 **Units:** MG/KG

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 88.3

Sample Name: BF-4 CompositeS **Lab Code:** K1509213-003S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	75 - 125	79.41		8.75		74.0	95		6020A
Cadmium	75 - 125	11.904		2.877		7.4	122		6020A
Chromium		234.64		317.02		29.6	-278		6020A
Copper	75 - 125	144.19		97.85		37.0	125		6020A
Lead		439.49		305.01		74.0	182		6020A
Manganese		5029.72		5255.54		74.0	-305		6020A
Zinc		960.9		689.6		74.0	367		6020A

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -
POST SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830 **Units:** UG/L

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: WATER

Sample Name: **BF-4 CompositeA** **Lab Code:** **K1509213-003A**

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	80 - 120	72.99		23.64		50.00	99		6020A
Cadmium	80 - 120	56.661		7.773		50.00	98		6020A
Chromium	80 - 120	138.31		42.83		100.00	95		6020A
Copper	80 - 120	110.04		13.22		100.00	97		6020A
Lead	80 - 120	142.64		41.21		100.00	101		6020A
Manganese	80 - 120	821.33		710.02		100.00	111		6020A
Zinc	80 - 120	186.0		93.2		100.00	93		6020A

Metals

- 6 -

DUPLICATES

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830 **Units:** MG/KG

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 88.3

Sample Name: BF-4 CompositeD **Lab Code:** K1509213-003D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	20	8.75		7.01		22.1	*	6020A
Cadmium	20	2.877		3.042		5.6		6020A
Chromium	20	317.02		134.78		80.7	*	6020A
Copper	20	97.85		98.68		0.8		6020A
Lead	20	305.01		312.93		2.6		6020A
Manganese	20	5255.54		2603.95		67.5	*	6020A
Zinc	20	689.6		690.0		0.1		6020A

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

Aqueous LCS Source: **Solid LCS Source:** **ERA D080-540**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				99.6	108.0	69	131	108
Cadmium				182.0	190.0	74	126	104
Chromium				136.0	143.0	70	130	105
Copper				102.0	104.0	74	126	102
Lead				115.0	124.0	72	129	108
Manganese				323.0	333.0	75	125	103
Zinc				161.0	167.0	81	119	104

Metals

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ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830 **Units:** UG/L

Project Name: Evraz-Oregon Steel

Sample Name: **BF-4 CompositeL** **Lab Code:** **K1509213-003L**

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	23.60		24.00		1.7		MS
Cadmium	7.770		8.080		4.0		MS
Chromium	4280.00		4355.00		1.8		MS
Copper	1322.00		1350.00		2.1		MS
Lead	4121.00		4125.00		0.0		MS
Manganese	71002.00		71271.00		0.3		MS
Zinc	9316.0		9420.0		1.1		MS

Metals

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DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

ICP/ICP-MS ID #: Agilent ICPMS

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		1.00	0.08	MS
Cadmium	111		0.040	0.014	MS
Chromium	52		0.40	0.12	MS
Copper	65		0.20	0.08	MS
Lead	208		0.10	0.04	MS
Manganese	55		0.20	0.04	MS
Zinc	66		1.0	0.4	MS

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

ICP ID Number: Agilent ICPMS

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	1.000	3000	6020A
Cadmium	1.000	3000	6020A
Chromium	0.300	3000	6020A
Copper	0.300	3000	6020A
Lead	0.300	3000	6020A
Manganese	0.300	3000	6020A
Zinc	0.300	3000	6020A

Comments:

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830

Project Name: Evraz-Oregon Steel

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1509213-003	9/22/2015	1.53	100.0
K1509213-003D	9/22/2015	1.51	100.0
K1509213-003S	9/22/2015	1.53	100.0
KQ1510589-01	9/22/2015	1.00	100.0
KQ1510589-02	9/22/2015	1.10	100.0

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1509213

Project No.: C1144-0830 **Run Number:** 092315B

Project Name: Evraz-Oregon Steel

Instrument ID Number: Agilent ICPMS **Method:** MS

Start Date: 9/23/2015 **End Date:** 9/23/2015

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	16:46				X			X		X		X		X		X									X	
25ppb	1.0	16:50				X			X		X		X		X		X									X	
ICV1	1.0	16:54				X			X		X		X		X		X									X	
CCV1	1.0	16:57				X			X		X		X		X		X									X	
ICB1	1.0	17:01				X			X		X		X		X		X									X	
CCB1	1.0	17:05				X			X		X		X		X		X									X	
LLICVS1	1.0	17:09				X			X		X		X		X		X									X	
ICS-A1	1.0	17:12				X			X		X		X		X		X									X	
ICS-AB1	1.0	17:16				X			X		X		X		X		X									X	
KQ1510589-01	5.0	17:20				X			X		X		X		X		X									X	
KQ1510589-02	20.0	17:24				X			X		X		X		X		X									X	
K1509213-003	100.0	17:27									X		X		X		X									X	
K1509213-003D	100.0	17:31									X		X		X		X									X	
K1509213-003L	100.0	17:35									X		X		X		X									X	
K1509213-003A	100.0	17:39									X		X		X		X									X	
K1509213-003S	100.0	17:42									X		X		X		X									X	
CCV2	1.0	17:46				X			X		X		X		X		X									X	
CCB2	1.0	17:50				X			X		X		X		X		X									X	
LLCCVS1	1.0	17:54				X			X		X		X		X											X	
LLCCVS1 2X	1.0	18:13															X										
K1509213-003	5.0	18:16				X			X																		
K1509213-003D	5.0	18:20				X			X																		
K1509213-003L	5.0	18:24				X			X																		
K1509213-003A	5.0	18:27				X			X																		
K1509213-003S	5.0	18:31				X			X																		
CCV3	1.0	18:35				X			X																		
CCB3	1.0	18:39				X			X																		
LLCCVS2	1.0	18:43				X			X																		

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0830

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1509213

ICP-MS Instrument ID: Agilent ICPMS Start Date: 09/23/2015 End Date: 09/23/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge 72_He	Q	Element In115_He	Q	Element Lu175_He	Q	Element	Q	Element	Q	Element	Q
Blank	Blank	1646	100		100		100							
25ppb	25ppb	1650	100		100		101							
ICV1	ICV	1654	101		101		100							
CCV1	CCV	1657	101		101		101							
ICB1	ICB	1701	100		100		101							
CCB1	CCB	1705	100		101		99							
LLICVS1	LLICVS1	1709	100		100		100							
ICS-A1	ICSA	1712	99		97		100							
ICS-AB1	ICSAB	1716	100		98		101							
KQ1510589-01	Method Blank	1720	99		98		97							
KQ1510589-02	Lab Control	1724	103		102		100							
K1509213-003	BF-4 Composite	1727	102		101		101							
K1509213-003D	BF-4 CompositeD	1731	103		101		100							
K1509213-003L	BF-4 CompositeL	1735	102		102		101							
K1509213-003A	BF-4 CompositeA	1739	103		101		102							
K1509213-003S	BF-4 CompositeS	1742	102		102		101							
CCV2	CCV	1746	102		102		101							
CCB2	CCB	1750	102		102		101							
LLCCVS1	LLCCVS1	1754	100		101		100							
LLCCVS1 2X	LLCCVS1 2X	1813	101		101		102							
K1509213-003	BF-4 Composite	1816	97		97		98							
K1509213-003D	BF-4 CompositeD	1820	96		94		96							
K1509213-003L	BF-4 CompositeL	1824	97		97		100							
K1509213-003A	BF-4 CompositeA	1827	97		96		99							
K1509213-003S	BF-4 CompositeS	1831	97		96		100							
CCV3	CCV	1835	97		98		97							
CCB3	CCB	1839	97		98		99							
LLCCVS2	LLCCVS2	1843	97		96		99							

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BF-4 Composite	K1509213-003	08/20/2015	08/21/2015
BF-4 CompositeMS	KWG1508974-1	08/20/2015	08/21/2015
BF-4 CompositeDMS	KWG1508974-2	08/20/2015	08/21/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Collected:**	08/20/2015
Sample Matrix:	Soil	**Date Received:**	08/21/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-4 Composite	**Units:**	ug/Kg
Lab Code:	K1509213-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	570	210	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1221	ND	U	1200	210	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1232	ND	U	570	210	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1242	ND	U	570	210	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1248	**5400**	D	570	210	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1254	ND	Ui	7000	7000	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1260	ND	Ui	1500	1500	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1262	ND	Ui	710	710	100	09/18/15	09/23/15	KWG1508974	
Aroclor 1268	ND	Ui	910	910	100	09/18/15	09/23/15	KWG1508974	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	1636	43-148	09/23/15	Outside Control Limits

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1508974-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1221	ND	U	10	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1232	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1242	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1248	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1254	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1260	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1262	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1268	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	80	43-148	09/23/15	Acceptable

Comments:

QA/QC Report

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830
Sample Matrix: Soil

Service Request: K1509213

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
BF-4 Composite	K1509213-003	1636 D #
Method Blank	KWG1508974-4	80
BF-4 CompositeMS	KWG1508974-1	1620 D #
BF-4 CompositeDMS	KWG1508974-2	1390 D #
Lab Control Sample	KWG1508974-3	86

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-4 Composite	**Units:**	ug/Kg
Lab Code:	K1509213-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

		BF-4 CompositeMS KWG1508974-1 Matrix Spike			BF-4 CompositeDMS KWG1508974-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	551	113	488 *	541	113	480 *	23-145	2	40
Aroclor 1260	ND	826	113	733 #	860	113	764 #	24-148	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1508974

	Lab Control Sample KWG1508974-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	148	200	74	42-122
Aroclor 1260	174	200	87	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015
		Time Analyzed:	10:44

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1508974-4	**File ID:**	J:\GC27\DATA\092315.B\0923F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1508974-3	J:\GC27\DATA\092315.B\0923F005.D	09/23/15	10:21
BF-4 Composite	K1509213-003	J:\GC27\DATA\092315.B\0923F007.D	09/23/15	11:08
BF-4 CompositeMS	KWG1508974-1	J:\GC27\DATA\092315.B\0923F008.D	09/23/15	11:32
BF-4 CompositeDMS	KWG1508974-2	J:\GC27\DATA\092315.B\0923F009.D	09/23/15	11:55

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015
		Time Analyzed:	10:21

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1508974-3	**File ID:**	J:\GC27\DATA\092315.B\0923F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1508974-4	J:\GC27\DATA\092315.B\0923F006.D	09/23/15	10:44
BF-4 Composite	K1509213-003	J:\GC27\DATA\092315.B\0923F007.D	09/23/15	11:08
BF-4 CompositeMS	KWG1508974-1	J:\GC27\DATA\092315.B\0923F008.D	09/23/15	11:32
BF-4 CompositeDMS	KWG1508974-2	J:\GC27\DATA\092315.B\0923F009.D	09/23/15	11:55

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509213
Project: Evraz-Oregon Steel/C1144-0830 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509213
Project: Evraz-Oregon Steel/C1144-0830 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509213
Project: Evraz-Oregon Steel/C1144-0830 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	162000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	3590	3300	-8	NA	± 100	AverageRF
Aroclor 1016 {2}	500	440	3000	2650	-12	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	9890	8530	-14	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	4960	4140	-16	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	5180	4370	-16	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	440	9850	8650	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7790	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7950	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18400	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14300	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	82500	0	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1590	-13	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2110	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	2200	1850	-16	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	2160	1810	-16	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-15	± 20	NA
Aroclor 1260 {1}	500	460	2210	2050	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3710	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3520	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8500	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5580	0	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F011.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	158000	159000	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	3590	3280	-9	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	3000	2590	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	9890	8150	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	4960	4110	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	5180	4290	-17	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-15	± 20	NA
Aroclor 1260 {1}	500	430	9850	8450	-14	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7600	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7700	-6	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	17900	-5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	14000	-1	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-7	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830

Service Request: K1509213
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F011.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81900	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2180	-10	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2500	-17	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1900	-13	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1860	-14	NA	± 100	AverageRF
Aroclor 1016	500	440	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	460	2210	2040	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3720	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3540	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8520	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5640	1	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509213
Project: Evraz-Oregon Steel/C1144-0830

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509187
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0923F003.D	Continuing Calibration Verification	KWG1509187-1	9/23/2015	09:34		9/23/2015	09:34
0923F004.D	Instrument Blank	KWG1509187-2	9/23/2015	09:57		9/23/2015	09:57
0923F005.D	Lab Control Sample	KWG1508974-3	9/23/2015	10:21		9/23/2015	10:21
0923F006.D	Method Blank	KWG1508974-4	9/23/2015	10:44		9/23/2015	10:44
0923F007.D	BF-4 Composite	K1509213-003	9/23/2015	11:08		9/23/2015	11:08
0923F008.D	BF-4 CompositeMS	KWG1508974-1	9/23/2015	11:32		9/23/2015	11:32
0923F009.D	BF-4 CompositeDMS	KWG1508974-2	9/23/2015	11:55		9/23/2015	11:55
0923F010.D	ZZZZZZ	ZZZZZZ	9/23/2015	12:19		9/23/2015	12:19
0923F011.D	Continuing Calibration Verification	KWG1509187-3	9/23/2015	12:43		9/23/2015	12:43
0923F012.D	Instrument Blank	KWG1509187-4	9/23/2015	13:07		9/23/2015	13:07
0923F013.D	ZZZZZZ	ZZZZZZ	9/23/2015	13:30		9/23/2015	13:30
0923F014.D	ZZZZZZ	ZZZZZZ	9/23/2015	13:54		9/23/2015	13:54
0923F015.D	ZZZZZZ	ZZZZZZ	9/23/2015	14:17		9/23/2015	14:17
0923F016.D	Continuing Calibration Verification	KWG1509187-5	9/23/2015	14:41		9/23/2015	14:41
0923F017.D	Instrument Blank	KWG1509187-6	9/23/2015	15:04		9/23/2015	15:04
0923F018.D	ZZZZZZ	ZZZZZZ	9/23/2015	15:28		9/23/2015	15:28
0923F019.D	ZZZZZZ	ZZZZZZ	9/23/2015	15:52		9/23/2015	15:52
0923F020.D	ZZZZZZ	ZZZZZZ	9/23/2015	16:16		9/23/2015	16:16
0923F021.D	ZZZZZZ	ZZZZZZ	9/23/2015	16:39		9/23/2015	16:39
0923F022.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:03		9/23/2015	17:03
0923F023.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:26		9/23/2015	17:26
0923F024.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:50		9/23/2015	17:50
0923F025.D	ZZZZZZ	ZZZZZZ	9/23/2015	18:13		9/23/2015	18:13
0923F026.D	ZZZZZZ	ZZZZZZ	9/23/2015	18:36		9/23/2015	18:36
0923F027.D	ZZZZZZ	ZZZZZZ	9/23/2015	19:00		9/23/2015	19:00
0923F028.D	Continuing Calibration Verification	KWG1509187-7	9/23/2015	19:24		9/23/2015	19:24
0923F029.D	Instrument Blank	KWG1509187-8	9/23/2015	19:47		9/23/2015	19:47
0923F030.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:11		9/23/2015	20:11
0923F031.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:35		9/23/2015	20:35
0923F032.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:59		9/23/2015	20:59
0923F033.D	ZZZZZZ	ZZZZZZ	9/23/2015	21:22		9/23/2015	21:22
0923F034.D	ZZZZZZ	ZZZZZZ	9/23/2015	21:45		9/23/2015	21:45
0923F035.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:09		9/23/2015	22:09
0923F036.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:32		9/23/2015	22:32
0923F037.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:56		9/23/2015	22:56

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1509213
Project: Evraz-Oregon Steel/C1144-0830

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509187
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0923F038.D	ZZZZZZ	ZZZZZZ	9/23/2015	23:20		9/23/2015	23:20
0923F039.D	ZZZZZZ	ZZZZZZ	9/23/2015	23:43		9/23/2015	23:43
0923F040.D	Continuing Calibration Verification	KWG1509187-9	9/24/2015	00:07		9/24/2015	00:07
0923F041.D	Instrument Blank	KWG1509187-10	9/24/2015	00:30		9/24/2015	00:30
0923F042.D	ZZZZZZ	ZZZZZZ	9/24/2015	00:54		9/24/2015	00:54
0923F043.D	ZZZZZZ	ZZZZZZ	9/24/2015	01:17		9/24/2015	01:17
0923F044.D	ZZZZZZ	ZZZZZZ	9/24/2015	01:41		9/24/2015	01:41
0923F045.D	Continuing Calibration Verification	KWG1509187-11	9/24/2015	02:04		9/24/2015	02:04
0923F046.D	Instrument Blank	KWG1509187-12	9/24/2015	02:28		9/24/2015	02:28
0923F047.D	ZZZZZZ	ZZZZZZ	9/24/2015	02:51		9/24/2015	02:51
0923F049.D	ZZZZZZ	ZZZZZZ	9/24/2015	03:15		9/24/2015	03:15
0923F051.D	ZZZZZZ	ZZZZZZ	9/24/2015	03:38		9/24/2015	03:38
0923F053.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:02		9/24/2015	04:02
0923F055.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:26		9/24/2015	04:26
0923F057.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:49		9/24/2015	04:49
0923F059.D	Continuing Calibration Verification	KWG1509187-13	9/24/2015	05:13		9/24/2015	05:13
0923F060.D	Instrument Blank	KWG1509187-14	9/24/2015	05:36		9/24/2015	05:36
0923F061.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:00		9/24/2015	06:00
0923F062.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:24		9/24/2015	06:24
0923F063.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:47		9/24/2015	06:47
0923F064.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:11		9/24/2015	07:11
0923F065.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:35		9/24/2015	07:35
0923F066.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:58		9/24/2015	07:58
0923F067.D	ZZZZZZ	ZZZZZZ	9/24/2015	08:22		9/24/2015	08:22
0923F068.D	ZZZZZZ	ZZZZZZ	9/24/2015	08:45		9/24/2015	08:45
0923F069.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:09		9/24/2015	09:09
0923F070.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:33		9/24/2015	09:33
0923F071.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:57		9/24/2015	09:57
0923F072.D	ZZZZZZ	ZZZZZZ	9/24/2015	10:20		9/24/2015	10:20
0923F073.D	Continuing Calibration Verification	KWG1509187-15	9/24/2015	10:44		9/24/2015	10:44
0923F074.D	Instrument Blank	KWG1509187-16	9/24/2015	11:08		9/24/2015	11:08
0923F075.D	ZZZZZZ	ZZZZZZ	9/24/2015	11:31		9/24/2015	11:31
0923F076.D	Continuing Calibration Verification	KWG1509187-17	9/24/2015	11:55		9/24/2015	11:55
0923F077.D	Instrument Blank	KWG1509187-18	9/24/2015	12:19		9/24/2015	12:19

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0830
Sample Matrix: Soil

Service Request: K1509213
Date Extracted: 09/18/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1508974
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-4 Composite	K1509213-003	08/20/15	08/21/15	40.050g	4ml	88.3	
Method Blank	KWG1508974-4	NA	NA	40.245g	4ml	NA	
BF-4 CompositeMS	KWG1508974-1	08/20/15	08/21/15	40.164g	4ml	88.3	
BF-4 CompositeDMS	KWG1508974-2	08/20/15	08/21/15	40.245g	4ml	88.3	
Lab Control Sample	KWG1508974-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509213
Project:	Evraz-Oregon Steel/C1144-0830	**Date Collected:**	08/20/2015
Sample Matrix:	Soil	**Date Received:**	08/21/2015
		Date Extracted:	09/18/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-4 Composite	**Units:**	ug/Kg
Lab Code:	K1509213-003	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	570	210	5400	8000	38.8	D	100	09/23/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1509213, K1509840, KQ1510445, K1509894**	**Run #:**	**462752**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1509213-003	1.28	12.95	12.72	11.4	88.3	
	K1509840-001	1.28	10.12	11.06	9.78	96.6	
	K1509840-001DUP	1.27	10.06	10.97	9.70	96.4	<1
	K1509840-004	1.28	10.19	11.16	9.88	97.0	
	K1509840-007	1.26	10.00	10.96	9.70	97.0	
	K1509840-010	1.28	10.21	10.91	9.63	94.3	
	K1509840-013	1.30	10.09	10.86	9.56	94.7	
	K1509840-016	1.27	10.04	10.75	9.48	94.4	
	K1509894-001	1.28	10.18	11.13	9.85	96.8	
	K1509894-001DUP	1.27	10.14	11.08	9.81	96.7	<1
	K1509894-004	1.28	10.19	11.18	9.90	97.2	
	K1509894-007	1.28	10.12	11.20	9.92	98.0	
	K1509894-010	1.27	10.02	10.99	9.72	97.0	
	K1509894-013	1.28	10.04	10.84	9.56	95.2	
	K1509894-016	1.28	10.01	10.83	9.55	95.4	
	K1509894-019	1.26	10.18	11.20	9.94	97.6	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**K-OVEN-07**	**105**	**105**	**9/17/2015**	**13:05**	**9/18/2015**	**08:46**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-Balance-16**	**1.00, 100.00**	**1.00, 100.00**	**9/17/2015**	**12:55**	**9/17/2015**	**13:05**
Calibration2	**K-Balance-16**	**1.00, 100.00**	**1.00, 100.00**	**9/18/2015**	**09:03**	**9/18/2015**	**09:05**

Comments: DJM Reviewed 9-18-15 L.J.

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 245306
Team: Metals
Analyst: Keith Linn

Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A

Status: Prepped
Current Step: Digestion

Prep Date: 09/22/2015 06:30
Due Date: 09/21/2015
Hold Date: 02/16/2016

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1510589-01	Method Blank		1.00 g		100 mL			10% HNO3, 10% HCl
KQ1510589-02	Lab Control Sample		1.10 g		100 mL	1 g	69665	10% HNO3, 10% HCl
K1509213-003	BF-4 Composite	.01	1.53 g	Composite	100 mL			10% HNO3, 10% HCl
K1509213-003: KQ1510589-03	Duplicate	.01	1.51 g	Composite	100 mL			10% HNO3, 10% HCl
K1509213-003: KQ1510589-04	Matrix Spike	.01	1.53 g	Composite	100 mL	1 mL 1 mL 2 mL 1 mL	84233 84235 84306 84309	10% HNO3, 10% HCl

5 Total Samples consisting of 1 Client Sample, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SOIL CRM	Spike	69665	7/31/2016	K-MET SS4	Spike	84235	9/4/2016
K-MET SS1	Spike	84306	7/1/2016	K-MET SS5	Spike	84233	7/16/2016
K-MET SS3	Spike	84309	1/14/2016				

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	Teflon Chips	69101	Digestion	K-MET HNO3	83195
Digestion	K-MET 100ml Centrifuge Tube	81681	Digestion	K-MET HCL	84123
Digestion	K-MET H2O2	82956			

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-Balance-02	Date Checked	9/22/15		Digestion	K-Block-Digester-14	Observed Temperature	95	NONE
Digestion	K-Block-Digester-14	Corrected Temperature	95	deg C	Digestion	K-Block-Digester-14	Thermometer ID 1108722		deg C
Digestion	K-Block-Digester-14	Correction Factor	0	deg C	Digestion	K-Block-Digester-14	Thermometer Location	27	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	22-SEP-15 06:30	22-SEP-15 09:55	Keith Linn		N	

Comments

1R: 15 mins, 2R: 30 mins, 3R: 15 mins.

Review

Reviewed by: _____ Date: 9/22/15

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
*** Add after HNO3	Mn	100*	1000ml	50	
and before cas cal	Ni	100*	1000ml	50	
-14	Sb***	50	1000ml	50	
when making the	V	100*	1000ml	50	
solution	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	10.0	500ml	20	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	
K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Service Request #	K1509213
Calibration	092315BMS05
QC in calibration	092315BMS05
QC Service Request #	K1509213
STARLIMS run #	463672

CAL STD	MS19-18-H	ICSA STD	MS19-18-A
ICV STD	MS19-12-H	ICSAB STD	MS19-18-B
LLICV STD	MS19-16-E		

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control	X		
7. Spike and duplicate in control	X		
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control	X		
11. Interferences checked	X		
12. Se over MRL	X		
13. LLICV run	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB in control	X		
16. Serial dilution run	X		
17. Post spike in control	X		
18. Was run stop prematurely, If so why?		X	

Comments: 2X Mn MRL. Samples 10X.
High RPDs, non-homogenous sample.

Primary Review By: _____ Date: 9/23/15

Secondary Review By: _____ Date: 9/24/15

R:\icp\misc\data review forms\icpms review form

Data Review Form

Service Request #: **K1509213**
Instrument ID#: **K-ICP-MS-05**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-05 (Agilent)\092315B.csv**
RUNNO: **463672**

K1509213-003DUP - Metals T

DUP RPD

6020A/Metals T - 52 Cr [He] - RPD: 81 Limit: 20
6020A/Metals T - 55 Mn [He] - RPD: 67 Limit: 20

K1509213-003DUP - Metals T

DUP RPD

6020A/Metals T - 75 As [He] - RPD: 22 Limit: 20

Analytical Method 6020A

Primary Approver: 9/23/15
Secondary Approver: 9/24/15

US EPA Tune Check Sample Report

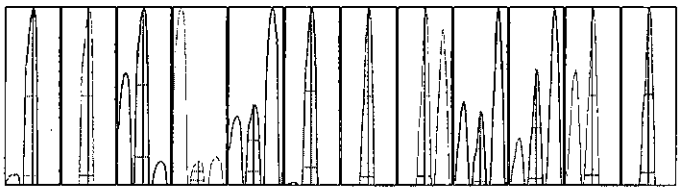
Batch Folder D:\Data\Experiments\092315A.b
Report Comment ALS Tune
Instrument Name G3281A JP13482848

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	62838	0.48	5.00	
9	25903	1.02	5.00	
24	151270	0.60	5.00	
25	20792	0.89	5.00	
26	24919	0.50	5.00	
59	264337	0.52	5.00	
115	368158	0.39	5.00	
206	78420	0.80	5.00	
207	69094	1.06	5.00	
208	168236	0.83	5.00	
209	255628	0.65	5.00	
238	335379	0.63	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
7	63264	62408	62827	62835	62857
9	26273	25684	25801	25678	26079
24	151517	152365	150897	149925	151644
25	20814	20597	21084	20782	20682
26	24876	25087	24911	24746	24976
59	265987	265012	262242	264414	264030
115	370450	368575	367400	366675	367692
206	78997	78389	78992	78231	77490
207	69571	68686	70130	68368	68714
208	170285	169089	167271	167193	167341
209	257556	257015	254353	255523	253691
238	335453	337767	336662	334790	332221

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
7	10306	7.05	6.9 - 7.1		0.784	0.900	
9	4296	9.00	8.9 - 9.1		0.786	0.900	
24	24307	23.95	23.9 - 24.1		0.794	0.900	
25	3301	24.95	24.9 - 25.1		0.766	0.900	
26	3834	25.90	25.9 - 26.1		0.785	0.900	
59	46247	58.95	58.9 - 59.1		0.789	0.900	
115	71672	115.00	114.9 - 115.1		0.770	0.900	
206	16122	206.00	205.9 - 206.1		0.804	0.900	
207	14154	207.00	206.9 - 207.1		0.759	0.900	
208	34121	208.00	207.9 - 208.1		0.802	0.900	
209	52510	209.00	208.9 - 209.1		0.803	0.900	
238	65626	238.00	237.9 - 238.1		0.822	0.900	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 279 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.57	L/min			
RF Matching	1.76	V	Option Gas	0.0	%			
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	°C						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	12.1	V			
Extract 2	-185.0	V	Cell Entrance	-30	V			
Omega Bias	-100	V	Cell Exit	-50	V			
Deflect	13.6	V						

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%			
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			
Energy Discrimination	5.0	V						

Sample		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
1			001CALB.	9/23/2015 4:39:01 PM	CalBlk	Rinse	
2			002CALB.	9/23/2015 4:42:47 PM	CalBlk	Rinse	
3			003CALB.	9/23/2015 4:46:33 PM	CalBlk	Blank	
4			004CALS.	9/23/2015 4:50:19 PM	CalStd	25ppb	
5			005_ICV.d	9/23/2015 4:54:04 PM	ICV	ICV	
6			006_CCV.	9/23/2015 4:57:48 PM	CCV	CCV	
7			007_ICB.d	9/23/2015 5:01:33 PM	ICB	ICB	
8			008_CCB.	9/23/2015 5:05:19 PM	CCB	CCB	
9			009LICV.d	9/23/2015 5:09:03 PM	LLICV	LLICVS	
10			010ICSA.d	9/23/2015 5:12:50 PM	ICSA	ICSA	
11			011ICSB.d	9/23/2015 5:16:36 PM	ICSB	ICSAB	
12	✓		012_PB.d	9/23/2015 5:20:22 PM	PB	KQ1510589-01	5
13	✓		013_QCS.	9/23/2015 5:24:09 PM	QCS	KQ1510589-02	20
14			014_ARF.d	9/23/2015 5:27:54 PM	AllRef	K1509213-003	100
15			015SMPL.	9/23/2015 5:31:40 PM	Sample	K1509213-003D	100
16			016SMPL.	9/23/2015 5:35:24 PM	Sample	K1509213-003L	500
17	✓		017_PDS.d	9/23/2015 5:39:10 PM	PDS	K1509213-003A	100 +100pp
18			018SMPL.	9/23/2015 5:42:51 PM	Sample	K1509213-003S	100
19			019_CCV.	9/23/2015 5:46:36 PM	CCV	CCV	
20			020_CCB.	9/23/2015 5:50:22 PM	CCB	CCB	
21			021LCCV.	9/23/2015 5:54:08 PM	LLCCV	LLCCVS	
22			023_QC1.d	9/23/2015 6:13:04 PM	QC1	LLCCVS 2X	
23	✓		024_ARF.d	9/23/2015 6:16:49 PM	AllRef	K1509213-003	5
24	✓		025SMPL.	9/23/2015 6:20:25 PM	Sample	K1509213-003D	5
25			026SMPL.	9/23/2015 6:24:03 PM	Sample	K1509213-003L	25
26	✓		027_PDS.d	9/23/2015 6:27:49 PM	PDS	K1509213-003A	5 +50ppb +1
27	✓		028_Spk.d	9/23/2015 6:31:54 PM	Spike	K1509213-003S	5
28			029_CCV.	9/23/2015 6:35:32 PM	CCV	CCV	
29			030_CCB.	9/23/2015 6:39:17 PM	CCB	CCB	
30			031LCCV.	9/23/2015 6:43:05 PM	LLCCV	LLCCVS	
31			032_QC1.d	9/23/2015 6:46:50 PM	QC1	LLCCVS 2X	
32			033SMPL.	9/23/2015 6:50:35 PM	Sample	LLCCVS 1.0ppb	

Analyte	Name	Mass	ISTD	Tune Mode
1	Be	9	45	No Gas
2	V	51	72	He
3	Cr	52	72	He
4	Cr	53	72	He
5	Mn	55	72	He
6	Co	59	72	He
7	Ni	60	72	He
8	Ni	62	72	He

Analyte				
	Name	Mass	ISTD	Tune Mode
9	Cu	63	72	He
10	Cu	65	72	He
11	Zn	66	72	He
12	As	75	72	He
13	Se	77	72	H2
14	Se	78	72	H2
15	Mo	95	115	He
16	Mo	97	115	He
17	Mo	98	115	He
18	Ag	107	115	He
19	Ag	109	115	He
20	Cd	111	115	He
21	Cd	114	115	He
22	Sb	121	115	He
23	Sb	123	115	He
24	Ba	135	115	He
25	Ba	137	115	He
26	Tl	203	175	He
27	Tl	205	175	He
28	[Pb]	206	175	He
29	[Pb]	207	175	He
30	Pb	208	175	He
31	U	238	232	He
32	Li	6		No Gas
33	Sc	45		No Gas
34	Sc	45		He
35	Sc	45		H2
36	Ga	71		H2
37	Ge	72		He
38	Ge	72		H2
39	Y	89		He
40	Rh	103		He
41	In	115		He
42	Lu	175		He
43	Th	232		He

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	003CALB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T16:46:33-07:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

9/23/15

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	23	37.81
V	51	He	88	25.35
Cr	52	He	818	1.18
Cr	53	He	109	3.24
Mn	55	He	103	25.55
Co	59	He	66	11.85
Ni	60	He	378	2.39
Ni	62	He	53	91.52
Cu	63	He	219	2.81
Cu	65	He	93	34.01
Zn	66	He	172	8.28
As	75	He	8	681.08
Se	77	H2	1169	0.42
Se	78	H2	14	163.57
Mo	95	He	14	332.41
Mo	97	He	8	317.63
Mo	98	He	26	128.39
Ag	107	He	26	128.39
Ag	109	He	29	23.04
Cd	111	He	4	1079.90
Cd	114	He	15	71.01
Sb	121	He	40	45.39
Sb	123	He	23	110.31
Ba	135	He	4	2579.17
Ba	137	He	8	239.76
Tl	203	He	88	22.21
Tl	205	He	206	13.02
[Pb]	206	He	410	0.59
[Pb]	207	He	370	2.87
Pb	208	He	1722	0.05
U	238	He	83	4.80

QC ISTD Table

Name	Mass	Tune Mode	CP5	%RSD
Sc	45	No Gas	8804364	0.10
Ge	72	He	128795	0.96
Ge	72	H2	1648892	1.94
In	115	He	1055325	0.84
Lu	175	He	2897543	1.12
Th	232	He	5573987	1.64

Calibration Standard Report

Sample Table

Sample Name	25ppb
Data File Name	004CALS.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T16:50:19-07:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	101005	0.00
V	51	He	80701	0.00
Cr	52	He	108787	0.00
Cr	53	He	13017	0.01
Mn	55	He	41013	0.00
Co	59	He	209402	0.00
Ni	60	He	60431	0.00
Ni	62	He	9776	0.04
Cu	63	He	173892	0.00
Cu	65	He	87064	0.00
Zn	66	He	20215	0.01
As	75	He	11112	0.02
Se	77	H2	8151	0.01
Se	78	H2	22555	0.00
Mo	95	He	75222	0.00
Mo	97	He	50175	0.00
Mo	98	He	132123	0.00
Ag	107	He	286235	0.00
Ag	109	He	283367	0.00
Cd	111	He	30231	0.00
Cd	114	He	78506	0.00
Sb	121	He	71337	0.00
Sb	123	He	57691	0.00
Ba	135	He	11535	0.01
Ba	137	He	20906	0.01
Tl	203	He	226582	0.00
Tl	205	He	540910	0.00
[Pb]	206	He	177858	0.00
[Pb]	207	He	159071	0.00
Pb	208	He	732484	0.00
U	238	He	821464	0.00

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8989315	2.59	8804364	102.10	70	125	
Ge	72	He	128639	0.71	128795	99.88	70	125	
Ge	72	H2	1696186	4.40	1648892	102.87	70	125	
In	115	He	1056498	1.85	1055325	100.11	70	125	
Lu	175	He	2932303	1.11	2897543	101.20	70	125	
Th	232	He	5740635	1.82	5573987	102.99	70	125	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	005_ICV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T16:54:04-07:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.607	1.172	10567	0.66	2.5	104	
V	51	He	25.779	1.354	84185	1.43	25	103	
Cr	52	He	10.426	0.984	46380	1.68	10	104	
Cr	53	He	10.705	1.207	5702	0.95	10	107	
Mn	55	He	25.741	0.725	42717	0.82	25	103	
Co	59	He	26.012	0.694	220413	0.46	25	104	
Ni	60	He	25.983	0.788	63524	0.57	25	104	
Ni	62	He	25.809	1.274	10210	1.56	25	103	
Cu	63	He	12.881	1.538	90747	1.83	12.5	103	
Cu	65	He	13.053	1.070	46033	1.78	12.5	104	
Zn	66	He	25.941	0.487	21213	1.22	25	104	
As	75	He	26.614	0.406	11967	1.07	25	106	
Se	77	H2	27.541	2.478	8774	1.86	25	110	
Se	78	H2	26.664	1.149	23829	0.66	25	107	
Mo	95	He	26.721	1.909	81193	1.49	25	107	
Mo	97	He	26.382	2.263	53463	1.40	25	106	
Mo	98	He	26.424	1.794	141006	1.21	25	106	
Ag	107	He	13.057	1.409	150956	1.12	12.5	104	
Ag	109	He	13.120	2.679	150152	1.82	12.5	105	
Cd	111	He	13.187	0.607	16103	0.30	12.5	105	
Cd	114	He	13.495	1.980	42791	1.16	12.5	108	
Sb	121	He	26.164	1.727	75372	0.95	25	105	
Sb	123	He	26.072	1.207	60750	1.17	25	104	
Ba	135	He	104.666	0.339	48743	0.73	100	105	
Ba	137	He	104.690	1.143	88374	0.26	100	105	
Tl	203	He	26.781	1.064	240315	1.13	25	107	
Tl	205	He	26.675	0.939	571433	1.05	25	107	
[Pb]	206	He	26.123	1.818	183998	1.91	25	104	
[Pb]	207	He	27.223	1.780	171450	1.16	25	109	
Pb	208	He	26.571	2.042	770650	1.78	25	106	
U	238	He	22.716	4.095	877199	0.95	25	91	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8994589	0.87	8804364	102.16	70	125	
Ge	72	He	130132	0.74	128795	101.04	70	125	
Ge	72	H2	1678202	1.09	1648892	101.78	70	125	
In	115	He	1066601	0.88	1055325	101.07	70	125	
Lu	175	He	2903261	1.81	2897543	100.20	70	125	
Th	232	He	6753976	5.01	5573987	121.17	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	006_CCV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T16:57:48-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.097	0.306	100588	0.59	25	100	
V	51	He	24.176	0.667	78808	0.75	25	97	
Cr	52	He	24.682	0.741	108457	0.81	25	99	
Cr	53	He	24.768	1.657	13026	2.93	25	99	
Mn	55	He	24.752	1.534	41004	1.68	25	99	
Co	59	He	24.751	0.778	209360	1.64	25	99	
Ni	60	He	24.982	1.774	60974	0.52	25	100	
Ni	62	He	23.950	2.236	9462	3.19	25	96	
Cu	63	He	24.729	1.828	173665	1.08	25	99	
Cu	65	He	24.754	1.634	87036	0.30	25	99	
Zn	66	He	25.167	2.502	20545	1.91	25	101	
As	75	He	24.807	1.648	11133	0.44	25	99	
Se	77	H2	25.758	2.552	8254	1.27	25	103	
Se	78	H2	24.939	0.723	22212	0.52	25	100	
Mo	95	He	25.207	1.229	76268	1.37	25	101	
Mo	97	He	24.951	2.177	50349	2.09	25	100	
Mo	98	He	24.897	1.298	132289	1.17	25	100	
Ag	107	He	25.078	0.356	288663	0.50	25	100	
Ag	109	He	24.790	1.090	282507	1.18	25	99	
Cd	111	He	25.302	0.512	30759	0.85	25	101	
Cd	114	He	24.984	0.641	78870	0.30	25	100	
Sb	121	He	24.904	0.613	71438	0.74	25	100	
Sb	123	He	24.847	1.238	57648	1.29	25	99	
Ba	135	He	25.036	0.829	11612	0.51	25	100	
Ba	137	He	24.880	1.982	20918	1.67	25	100	
Tl	203	He	25.140	0.560	227302	0.90	25	101	
Tl	205	He	25.419	0.333	548674	1.04	25	102	
[Pb]	206	He	25.336	1.087	179816	1.36	25	101	
[Pb]	207	He	25.168	1.840	159733	0.92	25	101	
Pb	208	He	25.203	0.817	736642	0.95	25	101	
U	238	He	25.788	1.243	824934	0.97	25	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8912079	0.44	8804364	101.22	70	125	
Ge	72	He	129895	1.40	128795	100.85	70	125	
Ge	72	H2	1672498	0.95	1648892	101.43	70	125	
In	115	He	1061966	0.35	1055325	100.63	70	125	
Lu	175	He	2925111	1.37	2897543	100.95	70	125	
Th	232	He	5588321	2.18	5573987	100.26	70	125	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	007_ICB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:01:33-07:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.005	82.2	41	37.0	0.04	
V	51	He	0.013	39.2	130	13.3	0.4	
Cr	52	He	0.008	172.6	851	9.5	0.4	
Cr	53	He	0.036	163.8	127	22.5	0.4	
Mn	55	He	0.006	229.9	112	17.4	0.1	
Co	59	He	0.004	36.8	97	10.3	0.04	
Ni	60	He	-0.009	-93.2	356	7.8	0.4	
Ni	62	He	0.004	1409.5	54	40.8	0.4	
Cu	63	He	-0.002	-175.0	201	16.4	0.2	
Cu	65	He	0.005	79.2	111	12.5	0.2	
Zn	66	He	0.031	47.9	197	7.4	1	
As	75	He	-0.004	-56.5	6	16.7	1	
Se	77	H2	-0.120	-107.3	1160	3.3	20	
Se	78	H2	0.009	73.6	22	27.3	2	
Mo	95	He	0.006	119.6	32	65.7	0.1	
Mo	97	He	0.008	21.3	23	14.3	0.1	
Mo	98	He	0.005	32.7	51	16.4	0.1	
Ag	107	He	0.001	57.5	34	14.8	0.04	
Ag	109	He	0.001	173.3	46	63.1	0.04	
Cd	111	He	0.003	15.4	7	8.1	0.04	
Cd	114	He	0.002	48.7	21	14.2	0.04	
Sb	121	He	0.006	56.6	57	16.4	0.2	
Sb	123	He	0.013	50.8	53	28.6	0.1	
Ba	135	He	0.000	-13558.8	4	43.4	0.1	
Ba	137	He	0.015	87.0	21	52.6	0.1	
Tl	203	He	0.021	27.6	273	18.2	0.04	
Tl	205	He	0.020	11.4	643	8.2	0.04	
[Pb]	206	He	0.001	555.3	422	13.2	0.1	
[Pb]	207	He	-0.004	-201.2	346	16.2	0.1	
Pb	208	He	0.000	684.2	1747	5.9	0.1	
U	238	He	0.016	18.7	576	16.4	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8817099	1.17	8804364	100.14	70	125	
Ge	72	He	128326	2.20	128795	99.64	70	125	
Ge	72	H2	1681844	0.28	1648892	102.00	70	125	
In	115	He	1059552	0.26	1055325	100.40	70	125	
Lu	175	He	2914465	0.56	2897543	100.58	70	125	
Th	232	He	5484200	1.35	5573987	98.39	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	008_CCB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:05:19-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.001	88.0	28	15.6	0.04	
V	51	He	0.009	32.4	117	7.6	0.4	
Cr	52	He	0.001	579.7	820	3.3	0.4	
Cr	53	He	0.089	75.7	154	22.2	0.4	
Mn	55	He	-0.003	-33.1	98	2.0	0.1	
Co	59	He	0.001	118.1	78	19.3	0.04	
Ni	60	He	-0.004	-6.8	368	1.0	0.4	
Ni	62	He	-0.008	-727.0	50	46.7	0.4	
Cu	63	He	0.002	502.4	230	25.3	0.2	
Cu	65	He	0.009	51.4	124	13.2	0.2	
Zn	66	He	0.016	134.0	184	8.5	1	
As	75	He	-0.004	-368.7	6	91.2	1	
Se	77	H2	-0.098	-102.1	1170	2.3	20	
Se	78	H2	-0.001	-298.8	13	23.1	2	
Mo	95	He	0.000	501.7	16	32.7	0.1	
Mo	97	He	0.000	-31811.9	8	65.5	0.1	
Mo	98	He	0.001	360.4	29	40.5	0.1	
Ag	107	He	0.000	394.1	29	43.7	0.04	
Ag	109	He	0.000	265.3	33	34.6	0.04	
Cd	111	He	0.001	233.0	5	50.9	0.04	
Cd	114	He	-0.001	-85.3	12	18.2	0.04	
Sb	121	He	-0.002	-260.2	36	31.9	0.2	
Sb	123	He	0.003	107.9	31	25.8	0.1	
Ba	135	He	0.019	136.5	13	90.2	0.1	
Ba	137	He	0.005	51.3	12	15.7	0.1	
Tl	203	He	0.004	66.2	126	19.2	0.04	
Tl	205	He	0.005	6.6	313	1.1	0.04	
[Pb]	206	He	0.005	28.3	442	4.3	0.1	
[Pb]	207	He	0.008	95.6	416	12.8	0.1	
Pb	208	He	0.001	172.4	1741	5.6	0.1	
U	238	He	0.005	13.8	230	6.3	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8709238	1.24	8804364	98.92	70	125	
Ge	72	He	128607	1.08	128795	99.85	70	125	
Ge	72	H2	1688394	0.73	1648892	102.40	70	125	
In	115	He	1060443	1.06	1055325	100.48	70	125	
Lu	175	He	2865068	1.97	2897543	98.88	70	125	
Th	232	He	5628734	2.93	5573987	100.98	70	125	

Low Level Initial Calibration Verification (LLICV) Report

Sample Table

Sample Name	LLICVS
Data File Name	009LICV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:09:03-07:00
Sample Type	LLICV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CP5 %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.039	14.914	176	12.65	0.04	97	
V	51	He	0.386	7.719	1328	6.83	0.4	96	
Cr	52	He	0.462	2.184	2802	1.81	0.4	115	
Cr	53	He	0.476	4.229	353	1.63	0.4	119	
Mn	55	He	0.093	27.883	254	17.59	0.1	93	
Co	59	He	0.038	2.415	380	3.04	0.04	94	
Ni	60	He	0.388	8.687	1305	5.30	0.4	97	
Ni	62	He	0.391	18.740	204	12.66	0.4	98	
Cu	63	He	0.205	5.572	1636	3.51	0.2	102	
Cu	65	He	0.216	12.995	842	12.28	0.2	108	
Zn	66	He	0.973	7.117	949	4.52	1	97	
As	75	He	0.994	7.457	448	6.04	1	99	
Se	77	H2	2.033	4.654	1734	2.04	2	102	
Se	78	H2	1.969	1.972	1756	2.58	2	98	
Mo	95	He	0.101	10.731	319	9.37	0.1	101	
Mo	97	He	0.091	16.325	191	16.94	0.1	91	
Mo	98	He	0.111	11.965	612	11.95	0.1	111	
Ag	107	He	0.044	9.962	523	8.35	0.04	109	
Ag	109	He	0.042	9.676	500	9.82	0.04	104	
Cd	111	He	0.045	12.564	58	10.81	0.04	113	
Cd	114	He	0.037	6.793	132	6.27	0.04	94	
Sb	121	He	0.092	15.578	303	14.46	0.1	92	
Sb	123	He	0.107	1.957	271	1.88	0.1	107	
Ba	135	He	0.121	15.310	60	14.70	0.1	121	
Ba	137	He	0.111	16.592	101	14.29	0.1	111	
Tl	203	He	0.038	2.657	427	2.71	0.04	95	
Tl	205	He	0.047	6.290	1219	4.91	0.04	119	
[Pb]	206	He	0.084	10.335	996	7.03	0.1	84	
[Pb]	207	He	0.094	6.729	960	4.22	0.1	94	
Pb	208	He	0.093	3.815	4414	3.59	0.1	93	
U	238	He	0.043	3.126	1421	3.77	0.04	106	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8796082	0.40	8804364	99.91	70	125	
Ge	72	He	128247	1.44	128795	99.57	70	125	
Ge	72	H2	1662582	0.85	1648892	100.83	70	125	
In	115	He	1054467	1.24	1055325	99.92	70	125	
Lu	175	He	2895943	1.26	2897543	99.94	70	125	
Th	232	He	5501091	1.81	5573987	98.69	70	125	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	010ICSA.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:12:50-07:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	QC Flag
Be	9	No Gas	0.011	13.9	68	7.8	
V	51	He	0.027	53.1	174	26.4	
Cr	52	He	0.219	6.8	1753	3.5	
Cr	53	He	0.248	45.0	236	24.6	
Mn	55	He	1.466	5.0	2488	5.1	
Co	59	He	0.247	8.9	2119	8.6	
Ni	60	He	0.286	11.0	1059	6.8	
Ni	62	He	0.251	12.4	150	8.0	
Cu	63	He	0.311	6.8	2362	6.5	
Cu	65	He	0.324	6.7	1212	6.2	
Zn	66	He	0.265	23.1	382	12.7	
As	75	He	0.074	12.8	41	9.9	
Se	77	H2	0.522	51.5	1306	2.1	
Se	78	H2	0.036	27.5	45	22.1	
Mo	95	He	52.043	1.1	152419	0.6	
Mo	97	He	51.487	0.7	100573	0.3	
Mo	98	He	52.232	1.1	268654	1.1	
Ag	107	He	0.031	14.5	370	14.0	
Ag	109	He	0.028	21.6	340	19.9	
Cd	111	He	0.094	0.2	114	0.7	
Cd	114	He	0.095	3.4	306	3.1	
Sb	121	He	0.249	5.5	730	5.4	
Sb	123	He	0.242	12.9	567	12.8	
Ba	135	He	0.151	32.6	72	30.7	
Ba	137	He	0.185	14.6	158	13.8	
Tl	203	He	-0.001	-165.1	77	23.0	
Tl	205	He	0.001	76.4	223	5.2	
[Pb]	206	He	0.076	14.1	947	7.5	
[Pb]	207	He	0.074	6.6	833	4.5	
Pb	208	He	0.072	5.8	3811	3.0	
U	238	He	0.001	27.9	134	11.7	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8940078	1.69	8804364	101.54	70	125	
Ge	72	He	127885	0.38	128795	99.29	70	125	
Ge	72	H2	1644317	3.36	1648892	99.72	70	125	
In	115	He	1028091	0.51	1055325	97.42	70	125	
Lu	175	He	2900481	0.84	2897543	100.10	70	125	
Th	232	He	5955153	2.61	5573987	106.84	70	125	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	011ICSB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:16:36-07:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.008	S2.798	54	29.60	-1	-0.8	
V	51	He	49.136	1.206	158316	0.92	50	98.3	
Cr	52	He	48.584	0.720	210346	0.45	50	97.2	
Cr	53	He	50.490	0.676	26144	0.63	50	101.0	
Mn	55	He	49.838	0.150	81546	0.15	50	99.7	
Co	59	He	47.523	1.174	397462	1.06	50	95.0	
Ni	60	He	46.952	1.727	113013	1.57	50	93.9	
Ni	62	He	46.693	1.021	18191	1.29	50	93.4	
Cu	63	He	46.757	0.885	324576	0.71	50	93.5	
Cu	65	He	46.447	2.025	161445	1.85	50	92.9	
Zn	66	He	23.967	0.716	19360	1.00	25	95.9	
As	75	He	25.001	0.642	11097	0.66	25	100.0	
Se	77	H2	26.205	1.677	8260	0.52	25	104.8	
Se	78	H2	24.946	1.458	21907	0.58	25	99.8	
Mo	95	He	53.203	0.434	156621	0.19	50	106.4	
Mo	97	He	52.518	0.547	103119	0.92	50	105.0	
Mo	98	He	52.598	0.463	271941	1.05	50	105.2	
Ag	107	He	12.036	1.011	134826	0.42	12.5	96.3	
Ag	109	He	11.981	0.371	132870	0.48	12.5	95.8	
Cd	111	He	24.723	0.294	29246	0.34	25	98.9	
Cd	114	He	24.390	0.377	74928	1.01	25	97.6	
Sb	121	He	0.252	6.108	742	6.41	-1	-25.2	
Sb	123	He	0.261	8.024	613	7.10	-1	-26.1	
Ba	135	He	0.190	7.305	90	6.42	-1	-19.0	
Ba	137	He	0.165	8.037	143	7.07	-1	-16.5	
Tl	203	He	0.000	-461.362	84	18.65	-1	0.0	
Tl	205	He	-0.002	-37.088	168	10.00	-1	0.2	
[Pb]	206	He	0.073	25.514	929	13.28	-1	-7.3	
[Pb]	207	He	0.085	13.484	908	5.90	-1	-8.5	
Pb	208	He	0.077	10.372	3962	3.75	-1	-7.7	
U	238	He	0.001	106.294	112	22.69	-1	-0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8896250	1.46	8804364	101.04	70	125	
Ge	72	He	128459	0.30	128795	99.74	70	125	
Ge	72	H2	1649217	1.94	1648892	100.02	70	125	
In	115	He	1033402	0.63	1055325	97.92	70	125	
Lu	175	He	2921900	2.14	2897543	100.84	70	125	
Th	232	He	5768551	2.50	5573987	103.49	70	125	

Prep Blank (PB) Report

Sample Table

Sample Name	KQ1510589-01
Data File Name	012_PB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:20:22-07:00
Sample Type	PB
Dilution	1
Comment	5
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	-0.001	-120.0	21	18.3	0.04	
V	51	He	-0.005	-142.3	70	34.3	0.4	
Cr	52	He	0.085	12.1	1164	6.9	0.4	
Cr	53	He	0.096	54.7	154	10.0	0.4	
Mn	55	He	-0.001	-2196.6	102	27.3	0.1	
Co	59	He	0.006	57.3	113	26.1	0.04	
Ni	60	He	-0.006	-427.7	361	23.8	0.4	
Ni	62	He	0.028	184.7	62	26.4	0.4	
Cu	63	He	0.038	11.1	472	7.8	0.2	
Cu	65	He	0.040	43.0	227	20.8	0.2	
Zn	66	He	-0.006	-1278.7	161	29.0	1	
As	75	He	-0.006	-166.0	5	84.5	1	
Se	77	H2	0.079	94.4	965	1.8	2	
Se	78	H2	-0.001	-171.3	10	11.2	2	
Mo	95	He	0.023	14.5	82	15.4	0.1	
Mo	97	He	0.025	15.8	58	21.8	0.1	
Mo	98	He	0.022	18.6	141	22.7	0.1	
Ag	107	He	0.001	90.0	41	40.8	0.04	
Ag	109	He	-0.001	-136.3	20	66.7	0.04	
Cd	111	He	0.001	149.3	5	47.8	0.04	
Cd	114	He	0.105	2.8	336	11.7	0.04	Flag
Sb	121	He	-0.003	-80.4	32	26.0	0.1	
Sb	123	He	0.004	52.2	32	21.0	0.1	
Ba	135	He	-0.003	-471.1	3	173.2	0.1	
Ba	137	He	0.024	33.7	28	30.8	0.1	
Tl	203	He	-0.005	-20.2	41	16.9	0.04	
Tl	205	He	-0.005	-3.4	99	8.5	0.04	
[Pb]	206	He	-0.002	-266.6	386	17.7	0.1	
[Pb]	207	He	0.001	1381.0	366	23.2	0.1	
Pb	208	He	-0.001	-107.9	1643	8.8	0.1	
U	238	He	-0.001	-19.0	40	22.0	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9034827	2.66	8804364	102.62	70	125	
Ge	72	He	126809	9.76	128795	98.46	70	125	
Ge	72	H2	1335913	0.60	1648892	81.02	70	125	
In	115	He	1034260	9.25	1055325	98.00	70	125	
Lu	175	He	2819535	9.32	2897543	97.31	70	125	
Th	232	He	5308816	9.90	5573987	95.24	70	125	

Laboratory Control Sample (LCSS) Report

Sample Table

Sample Name	KQ1510589-02
Data File Name	013_QCS.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:24:09-07:00
Sample Type	QCS
Dilution	1
Comment	20
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	40.957	2.298	166887	0.29	36.15	113.3	
V	51	He	55.853	1.004	185353	0.36	48.8	114.5	
Cr	52	He	78.441	0.527	349301	0.21	68	115.4	
Cr	53	He	81.465	0.407	43382	0.54	68	119.8	
Mn	55	He	182.981	0.179	308112	0.57	161.5	113.3	
Co	59	He	72.495	0.733	624517	0.99	64	113.3	
Ni	60	He	87.015	0.953	215405	0.85	76.5	113.7	
Ni	62	He	85.327	2.080	34198	2.81	76.5	111.5	
Cu	63	He	57.244	0.716	409266	0.09	51	112.2	
Cu	65	He	56.944	1.478	203861	1.43	51	111.7	
Zn	66	He	91.623	0.719	75735	0.96	80.5	113.8	
As	75	He	59.584	1.183	27231	1.49	49.8	119.6	
Se	77	H2	93.167	2.029	26973	1.15	75	124.2	
Se	78	H2	90.172	0.841	80944	0.67	75	120.2	
Mo	95	He	79.335	1.294	242902	0.27	66.5	119.3	
Mo	97	He	77.909	1.038	159102	0.48	66.5	117.2	
Mo	98	He	78.545	1.431	422338	0.77	66.5	118.1	
Ag	107	He	23.311	1.193	271577	0.44	20.2	115.4	
Ag	109	He	23.282	1.117	268544	1.37	20.2	115.3	
Cd	111	He	104.289	0.474	128307	0.60	91	114.6	
Cd	114	He	102.693	0.855	328079	0.70	91	112.8	
Sb	121	He	53.044	1.270	153963	1.47	44.1	120.3	
Sb	123	He	53.532	0.886	125677	0.65	44.1	121.4	
Ba	135	He	179.823	1.088	84385	0.27	155	116.0	
Ba	137	He	179.230	0.682	152473	1.01	155	115.6	
Tl	203	He	107.551	0.580	966528	0.32	87	123.6	
Tl	205	He	115.230	1.483	2472082	1.09	87	132.4	QCS Main CR1 Failed
[Pb]	206	He	69.530	1.996	489868	1.13	57.5	120.9	
[Pb]	207	He	67.363	2.304	424451	1.45	57.5	117.2	
Pb	208	He	68.371	1.916	1983750	1.02	57.5	118.9	
U	238	He	0.635	0.448	21014	0.92	-1	-63.5	

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KA 9/23/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9064065	2.05	8804364	102.95	70	125	
Ge	72	He	132320	0.73	128795	102.74	70	125	
Ge	72	H2	1686346	0.80	1648892	102.27	70	125	
In	115	He	1074886	1.05	1055325	101.85	70	125	
Lu	175	He	2908221	0.90	2897543	100.37	70	125	
Th	232	He	5752970	0.75	5573987	103.21	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1509213-003
Data File Name	014_ARF.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:27:54-07:00
Sample Type	AllRef
Dilution	1
Comment	100
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.080	3.46	351	0.02	
V	51	He	38.044	1.02	125727	0.03	
Cr	52	He	42.829	1.39	190255	0.02	
Cr	53	He	43.996	2.20	23375	0.19	
Mn	55	He	710.018	1.76	1189966	0.06	
Co	59	He	1.830	0.75	15757	0.01	
Ni	60	He	4.136	4.33	10561	0.04	
Ni	62	He	3.906	8.03	1611	0.24	
Cu	63	He	13.166	0.55	93895	0.01	
Cu	65	He	13.220	1.31	47191	0.03	
Zn	66	He	93.164	2.40	76660	0.12	
As	75	He	1.206	7.45	557	0.22	
Se	77	H2	0.168	79.89	1238	0.01	
Se	78	H2	0.036	28.44	46	0.08	
Mo	95	He	0.512	2.26	1573	0.03	
Mo	97	He	0.532	6.42	1088	0.05	
Mo	98	He	0.503	2.49	2717	0.02	
Ag	107	He	0.043	3.62	528	0.01	
Ag	109	He	0.047	22.77	568	0.01	
Cd	111	He	0.413	3.57	509	0.08	
Cd	114	He	0.422	3.23	1355	0.03	
Sb	121	He	2.035	2.01	5911	0.03	
Sb	123	He	2.048	2.55	4803	0.04	
Ba	135	He	25.161	0.74	11742	0.21	
Ba	137	He	24.806	0.09	20986	0.12	
Tl	203	He	0.075	10.40	763	0.01	
Tl	205	He	0.077	12.39	1863	0.00	
[Pb]	206	He	42.288	1.45	299723	0.01	
[Pb]	207	He	40.852	0.23	258985	0.02	
Pb	208	He	41.207	1.05	1202824	0.00	
U	238	He	0.179	2.06	5893	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9069305	1.18	8804364	103.01	70	125	
Ge	72	He	131744	1.17	128795	102.29	70	125	
Ge	72	H2	1679595	0.17	1648892	101.86	70	125	
In	115	He	1068574	0.88	1055325	101.26	70	125	
Lu	175	He	2924069	1.34	2897543	100.92	70	125	
Th	232	He	5682944	0.71	5573987	101.95	70	125	

Sample Report

Sample Table

Sample Name	K1509213-003D
Data File Name	015SMPL.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:31:40-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.062	1.72	275	0.02	
V	51	He	16.900	0.69	56066	0.03	
Cr	52	He	17.971	1.40	80555	0.02	
Cr	53	He	18.307	2.00	9822	0.19	
Mn	55	He	347.193	0.89	583646	0.06	
Co	59	He	1.957	0.64	16898	0.01	
Ni	60	He	5.075	1.62	12912	0.04	
Ni	62	He	4.636	2.52	1907	0.24	
Cu	63	He	13.083	0.26	93575	0.01	
Cu	65	He	13.158	0.65	47108	0.03	
Zn	66	He	92.002	0.65	75936	0.12	
As	75	He	1.003	6.52	466	0.22	
Se	77	H2	0.257	52.15	1253	0.02	
Se	78	H2	0.034	9.05	44	0.08	
Mo	95	He	0.458	10.16	1402	0.03	
Mo	97	He	0.454	4.03	924	0.05	
Mo	98	He	0.451	1.01	2427	0.02	
Ag	107	He	0.039	9.73	471	0.01	
Ag	109	He	0.040	5.97	482	0.01	
Cd	111	He	0.394	2.40	483	0.08	
Cd	114	He	0.417	4.11	1333	0.03	
Sb	121	He	1.455	1.81	4217	0.03	
Sb	123	He	1.471	2.50	3441	0.04	
Ba	135	He	25.533	5.10	11857	0.22	
Ba	137	He	25.979	1.68	21875	0.12	
Tl	203	He	0.032	14.81	376	0.01	
Tl	205	He	0.028	1.03	799	0.00	
[Pb]	206	He	42.583	0.61	299992	0.01	
[Pb]	207	He	41.089	1.32	258865	0.02	
Pb	208	He	41.724	0.93	1210466	0.00	
U	238	He	0.119	6.30	3947	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8995444	0.50	8804364	102.17	70	125	
Ge	72	He	132123	0.56	128795	102.58	70	125	
Ge	72	H2	1666610	1.08	1648892	101.07	70	125	
In	115	He	1063670	1.34	1055325	100.79	70	125	
Lu	175	He	2906304	1.92	2897543	100.30	70	125	
Th	232	He	5680204	0.85	5573987	101.91	70	125	

Sample Report

Sample Table

Sample Name	K1509213-003L
Data File Name	016SMPL.d
Data Path Name	D:\Data\Experiments\0923158.b
Acq Date Time	2015-09-23T17:35:24-07:00
Sample Type	Sample
Dilution	1
Comment	500
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.014	10.07	81	0.02	
V	51	He	7.743	1.54	25526	0.03	
Cr	52	He	8.710	0.80	39150	0.02	
Cr	53	He	8.674	6.76	4674	0.19	
Mn	55	He	142.541	0.99	237730	0.06	
Co	59	He	0.369	6.82	3213	0.01	
Ni	60	He	0.789	6.17	2316	0.03	
Ni	62	He	0.696	9.66	330	0.21	
Cu	63	He	2.684	0.92	19220	0.01	
Cu	65	He	2.700	1.68	9664	0.03	
Zn	66	He	18.843	1.01	15564	0.12	
As	75	He	0.252	6.28	122	0.21	
Se	77	H2	-0.137	-59.67	1158	-0.01	
Se	78	H2	0.006	115.88	20	0.03	
Mo	95	He	0.098	18.31	313	0.03	
Mo	97	He	0.090	14.79	192	0.05	
Mo	98	He	0.101	6.62	568	0.02	
Ag	107	He	0.011	34.00	152	0.01	
Ag	109	He	0.009	28.27	128	0.01	
Cd	111	He	0.082	5.03	104	0.08	
Cd	114	He	0.084	2.20	282	0.03	
Sb	121	He	0.413	6.04	1239	0.03	
Sb	123	He	0.405	11.08	973	0.04	
Ba	135	He	5.098	5.00	2395	0.21	
Ba	137	He	4.930	0.73	4197	0.12	
Tl	203	He	0.009	44.62	174	0.01	
Tl	205	He	0.008	40.55	388	0.00	
[Pb]	206	He	8.489	1.32	60660	0.01	
[Pb]	207	He	8.149	1.67	52089	0.02	
Pb	208	He	8.254	1.27	242938	0.00	
U	238	He	0.035	2.90	1200	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8913472	1.18	8804364	101.24	70	125	
Ge	72	He	131041	0.48	128795	101.74	70	125	
Ge	72	H2	1685585	0.46	1648892	102.23	70	125	
In	115	He	1073687	0.82	1055325	101.74	70	125	
Lu	175	He	2931451	1.35	2897543	101.17	70	125	
Th	232	He	5617505	1.84	5573987	100.78	70	125	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1509213-003A
Data File Name	017_PDS.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:39:10-07:00
Sample Type	PDS
Dilution	1
Comment	100 +100ppb
QC Ref File Name	014_ARF.d
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	98.281	0.384	398005	1.32	100	98	
V	51	He	134.092	1.226	444470	0.74	100	96	
Cr	52	He	138.313	1.001	614717	0.59	100	95	
Cr	53	He	143.852	0.851	76452	1.19	100	100	
Mn	55	He	821.335	2.381	1381359	2.20	100	111	
Co	59	He	97.590	1.352	839904	1.17	100	96	
Ni	60	He	100.161	1.022	247667	0.63	100	96	
Ni	62	He	96.328	1.524	38561	1.30	100	92	
Cu	63	He	110.321	0.213	787842	0.37	100	97	
Cu	65	He	110.036	0.932	393490	0.63	100	97	
Zn	66	He	185.980	0.452	153412	0.90	100	93	
As	75	He	99.381	0.278	45374	0.76	100	98	
Se	77	H2	102.522	0.676	29449	0.99	100	102	
Se	78	H2	99.342	1.571	88828	1.41	100	99	
Mo	95	He	98.818	1.163	300741	0.85	100	98	
Mo	97	He	98.353	0.544	199650	0.83	100	98	
Mo	98	He	99.085	0.132	529603	0.42	100	99	
Ag	107	He	0.042	11.802	513	11.38	-1	0	
Ag	109	He	0.045	13.026	540	12.53	-1	0	
Cd	111	He	99.037	0.698	121115	0.91	100	99	
Cd	114	He	98.123	0.347	311598	0.58	100	98	
Sb	121	He	99.743	0.311	287726	0.29	100	98	
Sb	123	He	100.268	0.544	233968	0.73	100	98	
Ba	135	He	122.234	1.150	57021	1.44	100	97	
Ba	137	He	123.775	1.601	104667	1.85	100	99	
Tl	203	He	98.478	1.422	897517	0.58	100	98	
Tl	205	He	106.651	1.671	2320440	0.80	100	107	
[Pb]	206	He	139.390	1.033	995665	0.92	100	97	
[Pb]	207	He	139.058	0.872	888312	0.60	100	98	
Pb	208	He	142.641	1.491	4195542	0.25	100	101	
U	238	He	103.799	1.610	3466681	0.39	100	104	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9006375	1.39	8804364	102.29	70	125	
Ge	72	He	132202	0.48	128795	102.65	70	125	
Ge	72	H2	1679890	1.47	1648892	101.88	70	125	
In	115	He	1068388	0.34	1055325	101.24	70	125	
Lu	175	He	2949573	1.29	2897543	101.80	70	125	
Th	232	He	5834602	1.23	5573987	104.68	70	125	

Sample Report

Sample Table

Sample Name	K1509213-003S
Data File Name	018SMPL.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:42:51-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.059	3.84	4397	0.02	
V	51	He	28.466	2.13	93856	0.03	
Cr	52	He	31.699	1.48	140674	0.02	
Cr	53	He	32.000	0.92	16991	0.19	
Mn	55	He	679.510	0.72	1135969	0.06	
Co	59	He	11.896	0.83	101820	0.01	
Ni	60	He	14.043	1.20	34850	0.04	
Ni	62	He	13.579	1.41	5450	0.25	
Cu	63	He	19.604	1.59	139324	0.01	
Cu	65	He	19.480	0.78	69315	0.03	
Zn	66	He	129.822	1.13	106485	0.12	
As	75	He	10.849	1.62	4930	0.22	
Se	77	H2	9.836	1.93	3941	0.25	
Se	78	H2	9.717	3.81	8787	0.11	
Mo	95	He	10.080	2.24	31035	0.03	
Mo	97	He	10.103	1.89	20751	0.05	
Mo	98	He	10.010	0.88	54139	0.02	
Ag	107	He	1.063	0.51	12480	0.01	
Ag	109	He	1.044	3.20	12128	0.01	
Cd	111	He	1.594	0.79	1975	0.08	
Cd	114	He	1.592	1.11	5128	0.03	
Sb	121	He	6.903	0.91	20178	0.03	
Sb	123	He	6.923	2.22	16358	0.04	
Ba	135	He	47.208	2.70	22272	0.21	
Ba	137	He	47.317	1.15	40473	0.12	
Tl	203	He	2.086	4.01	18898	0.01	
Tl	205	He	2.105	0.72	45529	0.00	
[Pb]	206	He	60.762	0.72	429797	0.01	
[Pb]	207	He	58.658	0.66	371083	0.02	
Pb	208	He	59.375	0.59	1729608	0.00	
U	238	He	0.174	4.13	5852	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9188455	2.00	8804364	104.36	70	125	
Ge	72	He	131401	0.92	128795	102.02	70	125	
Ge	72	H2	1696761	1.83	1648892	102.90	70	125	
In	115	He	1080705	1.93	1055325	102.40	70	125	
Lu	175	He	2919141	0.37	2897543	100.75	70	125	
Th	232	He	5779565	1.59	5573987	103.69	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	019_CCV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:46:36-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	24.672	1.126	99104	0.31	25	99	
V	51	He	24.444	0.879	80231	0.58	25	98	
Cr	52	He	24.885	0.851	110101	0.81	25	100	
Cr	53	He	26.484	2.241	14018	3.39	25	106	
Mn	55	He	24.586	1.018	41010	0.65	25	98	
Co	59	He	25.074	1.534	213529	0.24	25	100	
Ni	60	He	24.979	1.302	61391	0.41	25	100	
Ni	62	He	24.148	0.972	9604	1.03	25	97	
Cu	63	He	24.779	0.882	175236	0.92	25	99	
Cu	65	He	24.955	1.904	88364	2.16	25	100	
Zn	66	He	24.438	1.381	20095	1.55	25	98	
As	75	He	25.130	1.944	11355	0.70	25	101	
Se	77	H2	25.109	3.475	8317	1.61	25	100	
Se	78	H2	24.469	1.813	22446	1.46	25	98	
Mo	95	He	25.012	1.304	76307	0.52	25	100	
Mo	97	He	25.047	0.667	50968	1.16	25	100	
Mo	98	He	25.154	0.516	134775	0.48	25	101	
Ag	107	He	24.885	0.526	288856	1.18	25	100	
Ag	109	He	24.722	0.563	284085	0.83	25	99	
Cd	111	He	25.040	0.802	30696	0.98	25	100	
Cd	114	He	24.861	1.227	79141	1.42	25	99	
Sb	121	He	25.125	0.739	72673	0.12	25	100	
Sb	123	He	25.027	1.501	58548	0.98	25	100	
Ba	135	He	25.408	0.682	11883	1.01	25	102	
Ba	137	He	25.123	1.088	21299	0.78	25	100	
Tl	203	He	25.544	1.536	230572	0.38	25	102	
Tl	205	He	25.513	2.050	549744	0.60	25	102	
[Pb]	206	He	25.581	1.625	181255	1.27	25	102	
[Pb]	207	He	25.580	1.752	162097	1.43	25	102	
Pb	208	He	25.262	1.836	737158	1.24	25	101	
U	238	He	25.631	0.964	828003	0.72	25	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8932300	0.96	8804364	101.45	70	125	
Ge	72	He	130795	1.39	128795	101.55	70	125	
Ge	72	H2	1722607	1.37	1648892	104.47	70	125	
In	115	He	1070868	0.79	1055325	101.47	70	125	
Lu	175	He	2920520	1.48	2897543	100.79	70	125	
Th	232	He	5642445	0.33	5573987	101.23	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	020_CCB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:50:22-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.009	38.3	59	24.1	0.04	
V	51	He	-0.005	-227.4	74	46.6	0.4	
Cr	52	He	0.021	71.2	927	8.2	0.4	
Cr	53	He	0.051	185.4	138	35.1	0.4	
Mn	55	He	0.044	76.2	179	31.7	0.1	
Co	59	He	0.006	10.8	119	5.8	0.04	
Ni	60	He	-0.027	-42.7	320	8.5	0.4	
Ni	62	He	-0.042	-58.8	38	27.0	0.4	
Cu	63	He	-0.007	-62.8	177	16.3	0.2	
Cu	65	He	-0.005	-27.2	77	7.5	0.2	
Zn	66	He	0.024	108.9	196	10.0	1	
As	75	He	-0.004	-163.6	6	45.6	1	
Se	77	H2	0.176	48.9	1226	1.4	20	
Se	78	H2	-0.002	-56.9	12	9.4	2	
Mo	95	He	0.005	43.1	31	22.3	0.1	
Mo	97	He	0.016	32.5	41	26.1	0.1	
Mo	98	He	0.006	23.1	58	13.3	0.1	
Ag	107	He	0.001	79.9	36	21.6	0.04	
Ag	109	He	-0.001	-68.8	14	70.5	0.04	
Cd	111	He	0.003	49.6	8	27.2	0.04	
Cd	114	He	0.003	23.7	23	9.0	0.04	
Sb	121	He	0.006	36.3	59	11.7	0.2	
Sb	123	He	0.011	61.9	48	31.6	0.1	
Ba	135	He	0.012	61.2	10	33.3	0.1	
Ba	137	He	0.006	88.5	14	34.7	0.1	
Tl	203	He	0.035	11.8	406	10.5	0.04	
Tl	205	He	0.031	12.8	883	9.8	0.04	
[Pb]	206	He	0.002	206.4	424	5.2	0.1	
[Pb]	207	He	0.001	331.5	378	5.1	0.1	
Pb	208	He	0.000	-3594.6	1730	5.9	0.1	
U	238	He	0.008	26.1	339	20.4	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8876960	0.85	8804364	100.82	70	125	
Ge	72	He	131447	1.25	128795	102.06	70	125	
Ge	72	H2	1661632	3.19	1648892	100.77	70	125	
In	115	He	1072618	0.56	1055325	101.64	70	125	
Lu	175	He	2917698	1.33	2897543	100.70	70	125	
Th	232	He	5658616	1.35	5573987	101.52	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	021LCCV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T17:54:08-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.045	3.803	201	3.45	0.04	113	
V	51	He	0.405	8.004	1392	6.74	0.4	101	
Cr	52	He	0.412	3.960	2597	2.89	0.4	103	
Cr	53	He	0.429	22.804	330	14.88	0.4	107	
~~Mn~~	~~55~~	~~He~~	~~0.151~~	~~6.745~~	~~350~~	~~5.79~~	~~0.1~~	~~151~~	~~LLCCV Failed~~
Co	59	He	0.043	5.243	426	5.93	0.04	107	
Ni	60	He	0.347	9.785	1211	5.17	0.4	87	
Ni	62	He	0.416	27.183	214	18.80	0.4	104	
Cu	63	He	0.209	8.303	1669	6.00	0.2	104	
Cu	65	He	0.205	9.981	804	7.21	0.2	102	
Zn	66	He	0.987	10.987	962	7.45	1	99	
As	75	He	1.092	1.583	493	1.07	1	109	
Se	77	H2	1.975	17.249	1757	3.22	2	99	
Se	78	H2	1.969	3.035	1796	0.92	2	98	
Mo	95	He	0.093	4.232	298	3.60	0.1	93	
Mo	97	He	0.106	22.687	223	21.16	0.1	106	
Mo	98	He	0.100	5.886	562	5.60	0.1	100	
Ag	107	He	0.041	8.546	498	8.84	0.04	102	
Ag	109	He	0.040	6.477	486	5.06	0.04	100	
Cd	111	He	0.040	17.262	53	16.58	0.04	101	
Cd	114	He	0.041	1.802	144	2.78	0.04	102	
Sb	121	He	0.103	13.052	336	10.52	0.1	103	
Sb	123	He	0.102	4.057	262	4.47	0.1	102	
Ba	135	He	0.115	82.010	58	75.30	0.1	115	
Ba	137	He	0.113	3.413	104	2.45	0.1	113	
Tl	203	He	0.056	1.794	588	1.18	0.04	139	LLCCV Failed
Tl	205	He	0.059	8.296	1476	8.15	0.04	148	LLCCV Failed
[Pb]	206	He	0.104	12.018	1139	7.36	0.1	104	
[Pb]	207	He	0.098	10.779	989	6.14	0.1	98	
Pb	208	He	0.096	3.651	4489	2.40	0.1	96	
U	238	He	0.046	1.356	1578	3.49	0.04	115	

See 2X

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8747964	0.55	8804364	99.36	70	125	
Ge	72	He	128633	1.59	128795	99.87	70	125	
Ge	72	H2	1701881	3.11	1648892	103.21	70	125	
In	115	He	1068590	1.24	1055325	101.26	70	125	
Lu	175	He	2901492	1.30	2897543	100.14	70	125	
Th	232	He	5659508	2.36	5573987	101.53	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	023_QC1.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:13:04-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.082	1.894	353	2.41	0.08	102	
V	51	He	0.829	1.517	2787	1.21	0.8	104	
Cr	52	He	0.824	1.661	4419	1.35	0.8	103	
Cr	53	He	0.855	5.946	556	4.85	0.8	107	
Mn	55	He	0.207	13.663	446	10.21	0.2	103	
Co	59	He	0.077	5.142	713	4.92	0.08	96	
Ni	60	He	0.760	4.186	2226	3.68	0.8	95	
Ni	62	He	0.738	16.031	343	13.70	0.8	92	
Cu	63	He	0.449	2.945	3373	2.58	0.4	112	
Cu	65	He	0.458	1.592	1703	1.71	0.4	115	
Zn	66	He	2.099	5.988	1872	5.15	2	105	
As	75	He	2.081	4.696	941	4.45	2	104	
Se	77	H2	4.033	3.721	2318	0.48	4	101	
Se	78	H2	3.959	2.882	3578	4.36	4	99	
Mo	95	He	0.204	7.045	631	6.19	0.2	102	
Mo	97	He	0.204	12.982	418	12.08	0.2	102	
Mo	98	He	0.216	3.260	1172	3.60	0.2	108	
Ag	107	He	0.090	4.109	1056	3.77	0.08	112	
Ag	109	He	0.089	9.326	1038	9.82	0.08	111	
Cd	111	He	0.072	18.249	91	16.82	0.08	90	
Cd	114	He	0.082	2.111	275	2.48	0.08	103	
Sb	121	He	0.207	10.537	634	9.90	0.2	104	
Sb	123	He	0.206	3.771	501	3.56	0.2	103	
Ba	135	He	0.195	22.491	94	20.68	0.2	97	
Ba	137	He	0.188	17.154	166	16.98	0.2	94	
Tl	203	He	0.088	7.424	888	4.05	0.08	110	
Tl	205	He	0.086	3.167	2067	5.51	0.08	107	
[Pb]	206	He	0.196	3.854	1815	5.63	0.2	98	
[Pb]	207	He	0.189	13.453	1579	10.89	0.2	94	
Pb	208	He	0.200	5.204	7601	2.23	0.2	100	
U	238	He	0.079	1.184	2665	0.96	0.08	99	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8954146	1.49	8804364	101.70	70	125	
Ge	72	He	129887	0.28	128795	100.85	70	125	
Ge	72	H2	1690870	1.53	1648892	102.55	70	125	
In	115	He	1060830	0.75	1055325	100.52	70	125	
Lu	175	He	2943129	2.77	2897543	101.57	70	125	
Th	232	He	5683191	0.93	5573987	101.96	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1509213-003
Data File Name	024_ARF.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:16:49-07:00
Sample Type	AllRef
Dilution	1
Comment	5
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.293	1.24	5840	0.02	
V	51	He	795.579	0.84	2500806	0.03	
Cr	52	He	851.888	0.41	3587050	0.02	
Cr	53	He	873.959	0.63	440006	0.20	
~~Mn~~	~~55~~	~~He~~	~~14062.209~~	~~1.22~~	~~22429713~~	~~0.06~~	~~AllRef Main CR1 Failed~~
Co	59	He	35.788	0.85	292176	0.01	
Ni	60	He	80.693	0.94	189320	0.04	
Ni	62	He	78.528	1.17	29826	0.26	
Cu	63	He	259.776	1.50	1759385	0.01	
Cu	65	He	250.457	1.60	849339	0.03	
Zn	66	He	1802.253	3.31	1408671	0.13	
As	75	He	23.635	2.01	10241	0.23	
Se	77	H2	2.552	5.59	1798	0.14	
Se	78	H2	0.787	3.86	681	0.12	
Mo	95	He	10.033	2.08	29327	0.03	
Mo	97	He	9.871	1.83	19240	0.05	
Mo	98	He	9.835	1.03	50484	0.02	
Ag	107	He	0.836	1.19	9313	0.01	
Ag	109	He	0.853	4.12	9415	0.01	
Cd	111	He	7.773	1.38	9127	0.09	
Cd	114	He	7.969	0.20	24304	0.03	
Sb	121	He	40.712	0.39	112750	0.04	
Sb	123	He	40.675	1.40	91109	0.04	
Ba	135	He	490.192	0.25	219480	0.22	
Ba	137	He	494.595	0.35	401434	0.12	
Tl	203	He	0.210	6.13	1937	0.01	
Tl	205	He	0.214	5.06	4684	0.00	
[Pb]	206	He	831.461	1.13	5722767	0.01	
[Pb]	207	He	800.514	1.55	4927133	0.02	
Pb	208	He	804.140	1.37	22791962	0.00	
U	238	He	3.252	0.94	114141	0.00	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	10001320	2.06	8804364	113.60	70	125	
Ge	72	He	125394	1.17	128795	97.36	70	125	
Ge	72	H2	1594550	2.96	1648892	96.70	70	125	
In	115	He	1025522	1.08	1055325	97.18	70	125	
Lu	175	He	2843481	2.55	2897543	98.13	70	125	
Th	232	He	6126958	1.94	5573987	109.92	70	125	

Sample Report

Sample Table

Sample Name	K1509213-003D
Data File Name	025SMPL.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:20:25-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.126	1.76	4738	0.02	
V	51	He	350.252	2.11	1081272	0.03	
Cr	52	He	383.912	4.98	1587362	0.02	
Cr	53	He	380.673	2.77	188256	0.20	
~~Mn~~	~~55~~	~~He~~	~~7140.818~~	~~2.92~~	~~11184277~~	~~0.06~~	~~>LDR~~
Co	59	He	38.631	1.85	309740	0.01	
Ni	60	He	99.553	2.34	229292	0.04	
Ni	62	He	96.448	4.63	35951	0.27	
Cu	63	He	265.660	3.06	1766547	0.02	
Cu	65	He	257.209	2.72	856555	0.03	
Zn	66	He	1889.992	0.79	1450987	0.13	
As	75	He	18.700	1.58	7960	0.23	
Se	77	H2	2.357	10.72	1758	0.13	
Se	78	H2	0.719	3.26	627	0.11	
Mo	95	He	9.717	2.22	27438	0.04	
Mo	97	He	9.740	5.07	18332	0.05	
Mo	98	He	9.724	2.91	48209	0.02	
Ag	107	He	0.769	3.96	8284	0.01	
Ag	109	He	0.742	1.72	7916	0.01	
Cd	111	He	8.111	4.36	9197	0.09	
Cd	114	He	8.264	3.16	24343	0.03	
Sb	121	He	32.844	2.84	87875	0.04	
Sb	123	He	32.586	2.99	70518	0.05	
Ba	135	He	531.520	3.14	229863	0.23	
Ba	137	He	538.889	3.82	422404	0.13	
Tl	203	He	0.250	6.20	2236	0.01	
Tl	205	He	0.245	2.53	5248	0.00	
[Pb]	206	He	868.794	4.59	5864851	0.01	
[Pb]	207	He	846.066	4.34	5107532	0.02	
Pb	208	He	846.220	4.23	23525051	0.00	
U	238	He	2.372	4.21	76991	0.00	

1/23/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9309263	1.07	8804364	105.73	70	125	
Ge	72	He	123184	2.70	128795	95.64	70	125	
Ge	72	H2	1603716	0.36	1648892	97.26	70	125	
In	115	He	991293	3.64	1055325	93.93	70	125	
Lu	175	He	2791735	4.41	2897543	96.35	70	125	
Th	232	He	5668803	3.91	5573987	101.70	70	125	

Sample Report

Sample Table

Sample Name	K1509213-003L
Data File Name	026SMPL.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:24:03-07:00
Sample Type	Sample
Dilution	1
Comment	25
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.308	3.23	1269	0.02	
V	51	He	159.935	3.44	500211	0.03	
Cr	52	He	176.754	3.00	741075	0.02	
Cr	53	He	183.663	1.56	92102	0.20	
Mn	55	He	2915.348	2.90	4628427	0.06	
Co	59	He	7.375	2.63	59959	0.01	
Ni	60	He	17.092	1.62	40197	0.04	
Ni	62	He	15.707	3.82	5979	0.26	
Cu	63	He	52.409	0.94	353437	0.01	
Cu	65	He	52.478	0.39	177184	0.03	
Zn	66	He	369.663	1.13	287638	0.13	
As	75	He	4.796	5.27	2073	0.23	
Se	77	H2	0.413	55.81	1260	0.03	
Se	78	H2	0.149	6.61	142	0.10	
Mo	95	He	2.079	2.49	6080	0.03	
Mo	97	He	2.064	4.64	4022	0.05	
Mo	98	He	2.009	1.24	10318	0.02	
Ag	107	He	0.185	8.16	2082	0.01	
Ag	109	He	0.175	1.68	1947	0.01	
Cd	111	He	1.617	2.72	1899	0.09	
Cd	114	He	1.673	1.14	5107	0.03	
Sb	121	He	8.431	1.87	23351	0.04	
Sb	123	He	8.446	1.06	18913	0.04	
Ba	135	He	100.451	1.92	44915	0.22	
Ba	137	He	100.069	0.64	81120	0.12	
Tl	203	He	0.040	25.01	444	0.01	
Tl	205	He	0.043	7.41	1124	0.00	
[Pb]	206	He	165.737	3.79	1159727	0.01	
[Pb]	207	He	158.767	3.91	993552	0.02	
Pb	208	He	163.999	4.33	4725571	0.00	
U	238	He	0.726	2.86	23000	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8981607	1.72	8804364	102.01	70	125	
Ge	72	He	124790	1.80	128795	96.89	70	125	
Ge	72	H2	1621337	2.89	1648892	98.33	70	125	
In	115	He	1024247	1.37	1055325	97.06	70	125	
Lu	175	He	2890425	1.33	2897543	99.75	70	125	
Th	232	He	5519423	2.68	5573987	99.02	70	125	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1509213-003A
Data File Name	027_PDS.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:27:49-07:00
Sample Type	PDS
Dilution	1
Comment	5 +50ppb +10ppb Ag
QC Ref File Name	024_ARF.d
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	44.615	0.566	190242	0.92	50	87	
V	51	He	834.881	1.316	2600984	1.25	50	79	Flag
Cr	52	He	900.605	1.737	3758581	2.31	50	97	
Cr	53	He	917.543	0.726	457820	0.85	50	87	
Mn	55	He	13888.953	1.823	21958689	2.38	50	-347	Flag
Co	59	He	82.387	0.753	666575	1.26	50	93	
Ni	60	He	126.201	1.048	293242	0.56	50	91	
Ni	62	He	124.138	0.653	46699	0.55	50	91	
Cu	63	He	298.826	0.786	2005715	1.24	50	78	Flag
Cu	65	He	293.871	0.770	987752	1.33	50	87	
Zn	66	He	1812.376	0.714	1403893	1.22	50	20	Flag
As	75	He	72.992	0.506	31328	0.73	50	99	
Se	77	H2	54.082	0.713	15062	0.68	50	103	
Se	78	H2	50.794	0.846	42504	0.88	50	100	
Mo	95	He	60.078	1.574	172610	1.97	50	100	
Mo	97	He	60.080	0.728	115125	1.11	50	100	
Mo	98	He	60.471	0.546	305112	1.02	50	101	
Ag	107	He	10.344	0.953	113088	1.16	10	95	
Ag	109	He	10.278	0.437	111246	0.58	10	94	
Cd	111	He	56.661	0.207	65408	0.33	50	98	
Cd	114	He	56.588	0.279	169636	0.75	50	97	
Sb	121	He	90.966	0.494	247704	0.75	50	101	
Sb	123	He	90.352	0.494	199018	0.92	50	99	
Ba	135	He	546.774	0.327	240747	0.63	50	113	
Ba	137	He	548.344	0.884	437667	1.10	50	107	
Tl	203	He	48.738	2.064	431502	1.55	50	97	
Tl	205	He	49.219	0.601	1040369	0.42	50	98	
[Pb]	206	He	865.514	1.012	6002958	0.37	50	68	Flag
[Pb]	207	He	843.714	0.803	5233381	0.20	50	86	
Pb	208	He	849.419	0.395	24261550	0.33	50	91	
U	238	He	54.408	0.659	1851077	1.53	50	102	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9482626	1.04	8804364	107.70	70	125	
Ge	72	He	124272	0.58	128795	96.49	70	125	
Ge	72	H2	1571743	0.03	1648892	95.32	70	125	
In	115	He	1008504	0.47	1055325	95.56	70	125	
Lu	175	He	2864942	0.72	2897543	98.87	70	125	
Th	232	He	5943107	1.99	5573987	106.62	70	125	

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1509213-003S
Data File Name	028_Spk.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:31:54-07:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	024_ARF.d
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	18.797	0.781	78759	0.68	20	88	
V	51	He	585.768	2.221	1823949	1.11	200	-105	Flag
Cr	52	He	637.332	0.713	2658916	1.52	80	-268	Flag
Cr	53	He	639.867	0.962	319162	0.64	80	-293	Flag
Mn	55	He	13505.078	1.042	21343492	2.07	200	-279	Flag
Co	59	He	239.532	0.658	1937175	1.74	200	102	
Ni	60	He	271.620	1.504	630428	0.39	200	95	
Ni	62	He	265.031	0.848	99599	0.28	200	93	
Cu	63	He	374.664	1.498	2513431	0.76	100	115	
Cu	65	He	367.858	0.702	1235838	0.42	100	117	
Zn	66	He	2546.123	0.969	1971489	1.90	200	372	Flag
As	75	He	214.572	0.473	92041	0.67	200	95	
Se	77	H2	200.668	0.692	53278	1.66	200	99	
Se	78	H2	193.353	1.132	163004	0.50	200	96	
Mo	95	He	211.908	1.449	608678	1.02	200	101	
Mo	97	He	209.261	0.316	400930	0.95	200	100	
Mo	98	He	210.211	0.639	1060522	1.70	200	100	
Ag	107	He	20.271	0.773	221560	0.42	20	97	
Ag	109	He	20.216	0.709	218765	1.08	20	97	
Cd	111	He	32.166	0.948	37129	0.78	20	122	
Cd	114	He	31.548	0.812	94566	0.61	20	118	
Sb	121	He	147.871	1.433	402580	1.17	200	54	Flag
Sb	123	He	148.576	1.051	327201	0.54	200	54	Flag
Ba	135	He	961.669	0.716	423385	1.09	400	118	
Ba	137	He	965.074	0.820	770200	1.08	400	118	
Tl	203	He	39.150	1.376	350295	1.58	200	19	Flag
Tl	205	He	39.294	1.023	839351	1.22	200	20	Flag
[Pb]	206	He	1186.157	0.214	8313257	0.26	200	177	Flag
[Pb]	207	He	1160.451	0.190	7273581	0.39	200	180	Flag
Pb	208	He	1164.171	0.283	33599970	0.33	200	180	Flag
U	238	He	2.898	1.813	98239	1.25	-1	35	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	9316468	1.07	8804364	105.82	70	125	
Ge	72	He	124225	1.13	128795	96.45	70	125	
Ge	72	H2	1583975	1.37	1648892	96.06	70	125	
In	115	He	1008438	1.18	1055325	95.56	70	125	
Lu	175	He	2894953	0.20	2897543	99.91	70	125	
Th	232	He	5916104	0.56	5573987	106.14	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	029_CCV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:35:32-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.115	1.244	95155	0.47	25	100	
V	51	He	24.186	1.189	75872	1.14	25	97	
Cr	52	He	24.614	0.924	104090	0.81	25	98	
Cr	53	He	25.879	0.523	13091	0.15	25	104	
Mn	55	He	25.611	1.301	40827	1.57	25	102	
Co	59	He	24.702	0.695	201061	0.69	25	99	
Ni	60	He	24.443	0.916	57425	1.11	25	98	
Ni	62	He	24.044	2.297	9139	1.93	25	96	
Cu	63	He	24.761	0.644	167360	0.67	25	99	
Cu	65	He	25.058	0.619	84798	0.59	25	100	
Zn	66	He	26.143	1.915	20535	2.34	25	105	
As	75	He	25.408	1.148	10974	1.12	25	102	
Se	77	H2	25.484	1.685	8184	1.39	25	102	
Se	78	H2	24.470	2.997	21800	0.74	25	98	
Mo	95	He	25.406	1.943	74519	1.66	25	102	
Mo	97	He	24.969	1.506	48850	1.71	25	100	
Mo	98	He	25.269	0.420	130167	0.45	25	101	
Ag	107	He	25.322	0.399	282586	1.01	25	101	
Ag	109	He	25.153	1.031	277881	0.57	25	101	
Cd	111	He	25.163	1.287	29655	0.76	25	101	
Cd	114	He	25.206	0.626	77144	0.89	25	101	
Sb	121	He	24.941	0.387	69362	0.92	25	100	
Sb	123	He	25.072	0.402	56394	0.72	25	100	
Ba	135	He	25.192	1.597	11328	2.07	25	101	
Ba	137	He	24.883	2.535	20282	2.33	25	100	
Tl	203	He	26.115	1.293	226895	0.43	25	104	
Tl	205	He	26.298	1.051	545509	1.21	25	105	
[Pb]	206	He	26.358	1.670	179749	0.88	25	105	
[Pb]	207	He	26.123	1.585	159322	0.74	25	104	
Pb	208	He	26.163	1.149	734805	0.83	25	105	
U	238	He	25.628	1.032	824426	0.99	25	103	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8425127	0.92	8804364	95.69	70	125	
Ge	72	He	124999	0.47	128795	97.05	70	125	
Ge	72	H2	1673645	2.61	1648892	101.50	70	125	
In	115	He	1029562	0.67	1055325	97.56	70	125	
Lu	175	He	2811195	1.70	2897543	97.02	70	125	
Th	232	He	5619063	1.05	5573987	100.81	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	030_CCB.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:39:17-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.009	18.1	57	9.7	0.04	
V	51	He	0.008	38.6	109	9.4	0.4	
Cr	52	He	0.036	35.3	941	6.6	0.4	
Cr	53	He	0.043	42.8	127	7.0	0.4	
Mn	55	He	0.722	11.5	1241	10.1	1	
Co	59	He	0.014	55.1	173	34.6	0.04	
Ni	60	He	-0.056	-12.1	234	7.8	0.4	
Ni	62	He	0.023	139.1	60	19.2	0.4	
Cu	63	He	0.007	82.5	258	14.5	0.2	
Cu	65	He	0.015	138.6	141	50.8	0.2	
Zn	66	He	0.303	16.0	401	8.5	1	
As	75	He	0.003	204.1	9	29.4	1	
Se	77	H2	-0.034	-1019.0	1135	6.6	20	
Se	78	H2	0.004	65.2	17	15.6	2	
Mo	95	He	0.012	41.4	49	28.4	0.1	
Mo	97	He	0.014	35.0	34	27.9	0.1	
Mo	98	He	0.008	10.1	68	7.5	0.1	
Ag	107	He	0.002	109.7	43	46.8	0.04	
Ag	109	He	0.000	1260.4	29	29.0	0.04	
Cd	111	He	0.003	72.0	7	37.6	0.04	
Cd	114	He	0.001	58.9	19	13.5	0.04	
Sb	121	He	0.028	6.8	117	5.7	0.2	
Sb	123	He	0.031	18.3	93	13.7	0.1	
Ba	135	He	0.025	95.7	16	68.9	1	
Ba	137	He	0.025	62.8	29	44.8	1	
Tl	203	He	0.033	10.9	376	11.2	0.04	
Tl	205	He	0.032	14.3	879	13.7	0.04	
[Pb]	206	He	0.052	8.9	766	5.8	1	
[Pb]	207	He	0.065	13.2	770	8.4	1	
Pb	208	He	0.060	7.8	3431	5.5	1	
U	238	He	0.004	27.4	204	17.9	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8428238	2.05	8804364	95.73	70	125	
Ge	72	He	124335	1.09	128795	96.54	70	125	
Ge	72	H2	1614083	1.56	1648892	97.89	70	125	
In	115	He	1029710	1.30	1055325	97.57	70	125	
Lu	175	He	2864752	2.91	2897543	98.87	70	125	
Th	232	He	5559395	2.05	5573987	99.74	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	031LCCV.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:43:05-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.049	17.147	206	14.80	0.04	123	
V	51	He	0.402	11.215	1340	9.35	0.4	101	
Cr	52	He	0.409	6.919	2505	6.57	0.4	102	
Cr	53	He	0.438	10.324	324	8.74	0.4	109	
Mn	55	He	0.570	7.427	1003	7.77	0.1	570	
Co	59	He	0.043	18.340	411	17.40	0.04	107	
Ni	60	He	0.327	4.439	1126	4.52	0.4	82	
Ni	62	He	0.296	26.164	163	19.68	0.4	74	
Cu	63	He	0.221	1.261	1699	2.78	0.2	111	
Cu	65	He	0.228	5.779	858	3.61	0.2	114	
Zn	66	He	1.354	0.628	1218	1.35	1	135	LLCCV Failed
As	75	He	1.019	5.980	446	4.61	1	102	
Se	77	H2	1.821	10.524	1643	2.45	2	91	
Se	78	H2	2.049	4.647	1791	5.03	2	102	
Mo	95	He	0.102	11.410	309	10.26	0.1	102	
Mo	97	He	0.093	21.354	187	20.59	0.1	93	
Mo	98	He	0.105	6.896	559	7.29	0.1	105	
Ag	107	He	0.040	5.411	468	5.25	0.04	100	
Ag	109	He	0.041	20.433	471	18.94	0.04	102	
Cd	111	He	0.041	5.270	51	5.05	0.04	102	
Cd	114	He	0.044	4.756	146	5.04	0.04	109	
Sb	121	He	0.116	6.012	356	4.71	0.1	116	
Sb	123	He	0.115	2.091	279	2.41	0.1	115	
Ba	135	He	0.141	21.967	67	20.00	0.1	141	
Ba	137	He	0.147	7.191	126	6.25	0.1	147	
Tl	203	He	0.054	17.287	563	14.46	0.04	135	LLCCV Failed
Tl	205	He	0.056	4.357	1381	3.50	0.04	140	LLCCV Failed
[Pb]	206	He	0.153	4.194	1462	2.39	0.1	153	LLCCV Failed
[Pb]	207	He	0.139	10.438	1228	6.70	0.1	139	
Pb	208	He	0.140	4.644	5703	2.64	0.1	140	
U	238	He	0.041	3.787	1377	4.44	0.04	102	

NF 9/23/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8341599	0.56	8804364	94.74	70	125	
Ge	72	He	124574	1.81	128795	96.72	70	125	
Ge	72	H2	1629930	2.04	1648892	98.85	70	125	
In	115	He	1017613	0.74	1055325	96.43	70	125	
Lu	175	He	2860382	0.67	2897543	98.72	70	125	
Th	232	He	5533628	0.89	5573987	99.28	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2X
Data File Name	032_QC1.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:46:50-07:00
Sample Type	QC1
Dilution	1
Comment	
ISTD Ref File Name	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.086	1.805	350	2.00	0.08	108	
V	51	He	0.842	3.631	2709	2.61	0.8	105	
Cr	52	He	0.850	4.298	4335	2.74	0.8	106	
Cr	53	He	0.847	17.275	528	13.51	0.8	106	
~~Mn~~	~~55~~	~~He~~	~~0.674~~	~~5.214~~	~~1166~~	~~4.05~~	~~0.2~~	~~337~~	
Co	59	He	0.088	10.403	773	10.26	0.08	110	
Ni	60	He	0.772	2.888	2157	2.31	0.8	96	
Ni	62	He	0.756	4.990	336	3.49	0.8	95	
Cu	63	He	0.455	4.049	3265	2.88	0.4	114	
Cu	65	He	0.457	3.959	1626	3.54	0.4	114	
Zn	66	He	2.222	7.872	1888	7.40	2	111	
As	75	He	2.029	2.961	879	3.69	2	101	
Se	77	H2	4.012	0.983	2212	0.73	4	100	
Se	78	H2	4.077	1.702	3523	1.34	4	102	
Mo	95	He	0.223	1.397	666	0.77	0.2	111	
Mo	97	He	0.207	14.477	411	14.53	0.2	103	
Mo	98	He	0.219	3.665	1151	3.99	0.2	110	
Ag	107	He	0.085	5.111	976	4.66	0.08	107	
Ag	109	He	0.085	9.298	966	9.19	0.08	106	
Cd	111	He	0.084	8.830	102	8.25	0.08	105	
Cd	114	He	0.080	10.400	260	10.46	0.08	101	
Sb	121	He	0.220	8.023	649	7.48	0.2	110	
Sb	123	He	0.224	7.112	525	7.15	0.2	112	
Ba	135	He	0.243	10.529	113	10.61	0.2	122	
Ba	137	He	0.254	3.682	214	3.14	0.2	127	
Tl	203	He	0.094	2.046	908	1.12	0.08	117	
Tl	205	He	0.100	1.662	2287	1.90	0.08	125	
[Pb]	206	He	0.251	7.271	2123	6.53	0.2	125	
[Pb]	207	He	0.243	7.160	1853	6.08	0.2	121	
Pb	208	He	0.247	1.196	8680	0.82	0.2	124	
U	238	He	0.082	6.062	2714	7.36	0.08	103	

9/23/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8465305	1.89	8804364	96.15	70	125	
Ge	72	He	124330	0.93	128795	96.53	70	125	
Ge	72	H2	1617492	1.12	1648892	98.10	70	125	
In	115	He	1027188	0.69	1055325	97.33	70	125	
Lu	175	He	2836057	0.81	2897543	97.88	70	125	
Th	232	He	5587859	1.80	5573987	100.25	70	125	

Sample Report

Sample Table

Sample Name	LLCCVS 1.0ppb
Data File Name	033SMPL.d
Data Path Name	D:\Data\Experiments\092315B.b
Acq Date Time	2015-09-23T18:50:35-07:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.009	2.28	3872	0.03	
V	51	He	0.988	5.37	3207	0.03	
Cr	52	He	1.000	2.28	5029	0.02	
Cr	53	He	1.110	7.48	668	0.17	
Mn	55	He	1.331	8.73	2235	0.06	
Co	59	He	1.012	1.67	8365	0.01	
Ni	60	He	0.931	2.68	2561	0.04	
Ni	62	He	0.925	3.88	404	0.23	
Cu	63	He	1.003	3.17	7037	0.01	
Cu	65	He	0.988	5.50	3457	0.03	
Zn	66	He	1.178	11.88	1093	0.11	
As	75	He	0.993	7.35	440	0.23	
Se	77	H2	0.894	6.66	1390	0.06	
Se	78	H2	1.024	4.73	898	0.11	
Mo	95	He	1.013	5.91	2959	0.03	
Mo	97	He	0.976	6.46	1902	0.05	
Mo	98	He	1.035	3.01	5314	0.02	
Ag	107	He	1.029	2.76	11411	0.01	
Ag	109	He	1.027	2.12	11276	0.01	
Cd	111	He	1.006	2.79	1179	0.09	
Cd	114	He	1.031	1.67	3142	0.03	
Sb	121	He	1.054	3.35	2945	0.04	
Sb	123	He	1.028	1.88	2315	0.04	
Ba	135	He	1.012	10.50	456	0.22	
Ba	137	He	1.041	4.92	850	0.12	
Tl	203	He	1.015	3.60	9002	0.01	
Tl	205	He	1.025	2.38	21694	0.00	
[Pb]	206	He	1.040	3.50	7562	0.01	
[Pb]	207	He	1.058	4.62	6878	0.02	
Pb	208	He	1.048	0.64	31407	0.00	
U	238	He	1.031	2.11	33011	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	8492022	1.46	8804364	96.45	70	125	
Ge	72	He	125986	0.77	128795	97.82	70	125	
Ge	72	H2	1624425	2.46	1648892	98.52	70	125	
In	115	He	1021291	0.68	1055325	96.78	70	125	
Lu	175	He	2843955	1.52	2897543	98.15	70	125	
Th	232	He	5579671	0.59	5573987	100.10	70	125	

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F007.D
Lab ID: K1509213-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 11:08
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: MMR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:23
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F007.D
Lab ID: K1509213-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 11:08
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Real

Primary Review: MR 09/24/15

Secondary Review:

Printed: 09/24/2015 14:38:27
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D			**Vial:**	28
Acqu Date:	09/23/2015 11:08	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509213-003				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/20/2015	**Receive Date:**	08/21/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	K1509213
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468237	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 0.00	13.57 -0.05	2587011m	973417m	16.36	11.82			1636 #
			%Recovery =		1636 #	1182 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D			**Vial:**	28
Acqu Date:	09/23/2015 11:08	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509213-003				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {1}	4.94	4.95	2635295m	71482	562.44	57.37	6400D	650D	RPD
Aroclor 1248			0	0	711.34	475.30	8000D	5400D	**5400**D
Aroclor 1248 {2}	5.29	5.52	2836367m	367413	650.41	142.46	7400D	1600D	RPD
Aroclor 1248 {3}	5.68	5.92	4781305m	2413624	744.16	811.59	8400D	9200D	
Aroclor 1248 {4}	5.87	6.35	3558245m	2134541	724.65	889.77	8200D	10000D	
Aroclor 1248 {5}	6.28	7.05	4052240m	0	875.04	0.0000	9900D	210U	
Aroclor 1254 {1}	6.25	6.71	2656948m	3414937m	682.94	929.31	210Ui	210Ui	
Aroclor 1254			0	0	612.86	748.11	7000Ui	8500Ui	7000Ui
Aroclor 1254 {2}	6.68	7.05	4448563m	5197888m	612.96	897.24	210Ui	210Ui	
Aroclor 1254 {3}	6.83	7.16	7539932m	1633600m	515.21	843.31	210Ui	210Ui	
Aroclor 1254 {4}	7.17	8.01	5228940m	798332m	546.64	352.38	210Ui	210Ui	
Aroclor 1254 {5}	7.78	8.77	4473639m	2253961m	706.55	718.31	210Ui	210Ui	
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	2333403	175292m	236.88	79.47	210Ui	210Ui	
Aroclor 1260			0	0	129.09	180.18	1500Ui	2100Ui	1500Ui
Aroclor 1260 {2}	8.06 -0.03	9.29 +0.03	1159913	529911m	142.96	140.19	210Ui	210Ui	
Aroclor 1260 {3}	8.60 -0.04	9.71	714217	65786m	86.77	18.23	210Ui	210Ui	
Aroclor 1260 {4}	9.11	10.40 +0.01	935241	0m	49.75	0.0000	210Ui	210Ui	
Aroclor 1260 {5}		11.02 -0.01	0	2696863m	0.0000	482.85	210Ui	210Ui	
Aroclor 1262 {1}	8.06	9.29	1159913	902964	85.99	156.08	970D	1800D	
Aroclor 1262			0	0	62.38	423.86	710D	4800D	**710**PD RPD
Aroclor 1262 {2}	8.60	9.71	714217	65786	60.63	16.24	690D	210U	
Aroclor 1262 {3}	9.11	10.40	935241	7343359	40.51	760.77	460JD	8600D	RPD
Aroclor 1262 {4}		11.02	0	2978260	0.0000	444.61	210U	5000D	
Aroclor 1262 {5}		12.38	0	2698880	0.0000	741.61	210U	8400D	
Aroclor 1268 {1}	9.79	11.02	3848126	2978260	130.34	230.09	1500D	2600D	
Aroclor 1268			0	0	79.70	328.62	900D	3700D	**900**PD RPD
Aroclor 1268 {2}		11.23	0	9369349	0.0000	857.77	210U	9700D	
Aroclor 1268 {3}	10.37	11.71	917919	1964018	41.73	205.76	470JD	2300D	RPD
Aroclor 1268 {4}	11.70	13.06	4201829	593108	67.04	20.85	760D	240JD	RPD

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.050 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Report Date: 28-Sep-2015 13:24

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Inj Date : 23-SEP-2015 11:08
Sample Info: K1509213-003 100X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.339	226942	87138	1.28	1.11		100.00
Aroclor 1248	4.935	4.952	2635295	71482	562	57.4	80.00- 120.00	100.00(MH)
	5.292	5.515	2836367	367413	650	142	17.18- 25.77	107.63(MH)
	5.675	5.922	4781305	2413624	744	812	19.47- 29.21	181.43(MH)
	5.872	6.352	3558245	2134541	725	890	3.05- 4.58	135.02(MH)
	6.282	7.052	4052240		875		0.69- 1.04	153.77(MH)
		Average of Peak Amounts =			711	475		
Aroclor 1254	6.245	6.712	2656948	3414937	683	929	80.00- 120.00	100.00(MH)
	6.678	7.052	4448563	5197888	613	897	1017.66-1526.49	167.43(MH)
	6.832	7.155	7539932	1633600	515	843	9645.23-14469.35	283.78(MH)
	7.172	8.009	5228940	798332	547	352	1125.72-1690.08	196.80(MH)
	7.778	8.765	4473639	2253961	707	718	281.12- 421.67	168.38(MH)
		Average of Peak Amounts =			613	748		
Aroclor 1260	7.075	7.829	2333403	175292	237	79.5	80.00- 120.00	100.00(TH)
	8.062	9.292	1159913	529911	143	140	70.24- 105.36	49.71(TH)
	8.602	9.712	714217	65786	86.8	18.2	71.65- 107.48	30.61(TH)
	9.105	10.402	935241		49.8		165.26- 247.89	40.08(TH)
	0.000	11.015		2696863		483	217.62- 326.43	1538.50(TH)
		Average of Peak Amounts =			129	180		
Aroclor 1262	8.062	9.292	1159913	902964	86.0	156	80.00- 120.00	100.00(TH)
	8.602	9.712	714217	65786	60.6	16.2	81.49- 122.24	61.58(TH)
	9.105	10.402	935241	7343359	40.5	761	185.52- 278.29	80.63(TH)
	0.000	11.015		2978260		445	95.26- 142.89	329.83(TH)
	0.000	12.375		2698880		742	52.03- 78.05	298.89(TH)
		Average of Peak Amounts =			62.4	424		
Aroclor 1268	9.785	11.015	3848126	2978260	130	230	80.00- 120.00	100.00(TH)
	0.000	11.232		9369349		858	68.95- 103.42	314.59(TH)
	10.365	11.705	917919	1964018	41.7	206	12.86- 19.30	23.85(TH)
	11.695	13.059	4201829	593108	67.0	20.8	30.73- 46.09	109.19(TH)

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Report Date: 28-Sep-2015 13:24

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		79.6	329		
Decachlorobiphenyl	12.255	13.572	2587011	973417	16.4	11.8		100.00(M)
Aroclors, Total	0.000	0.000	13653736	11297505	1600	2160		100.00

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

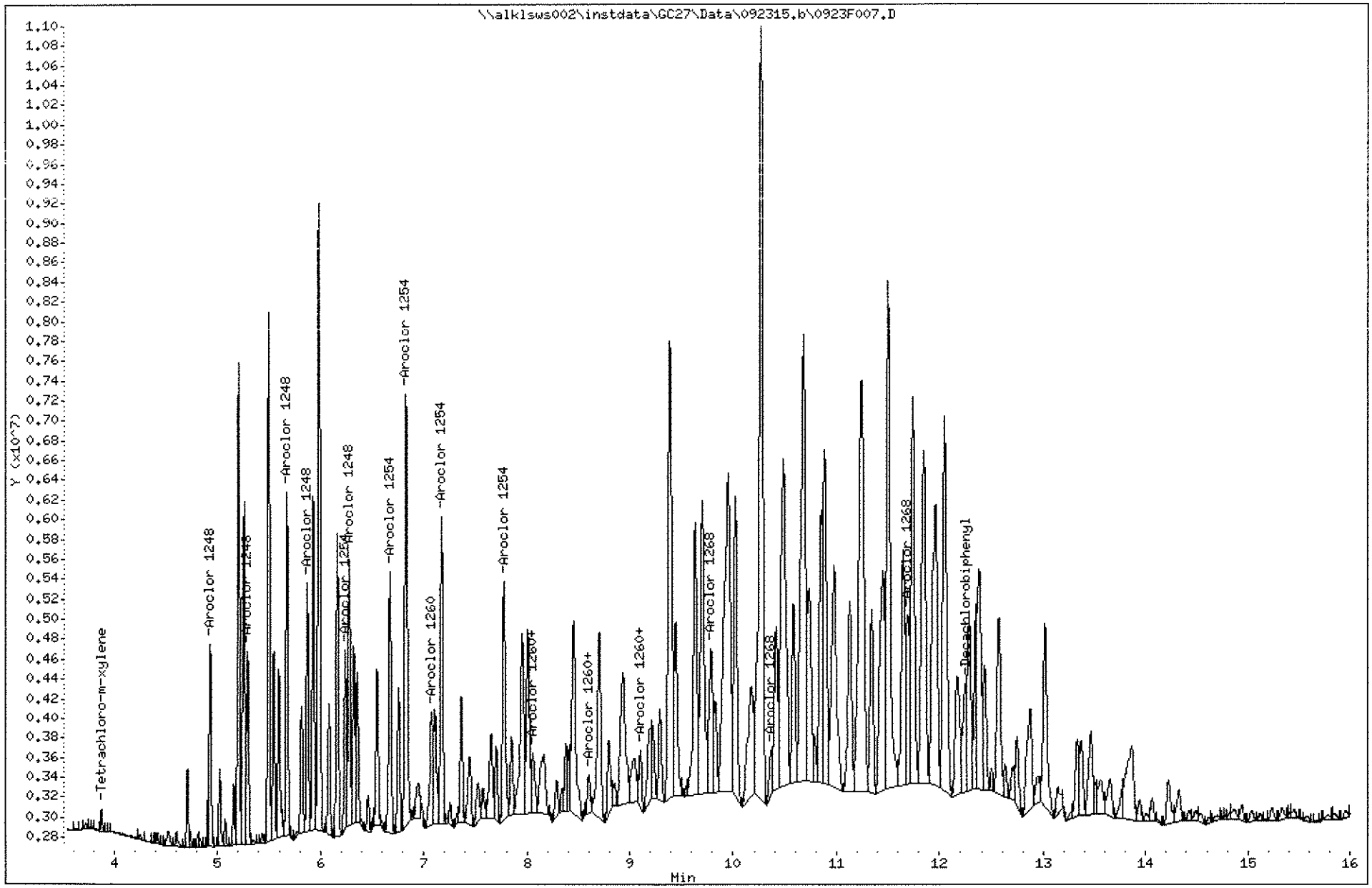
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Date : 23-SEP-2015 11:08
Client ID:
Sample Info: K1509213-003 100%

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



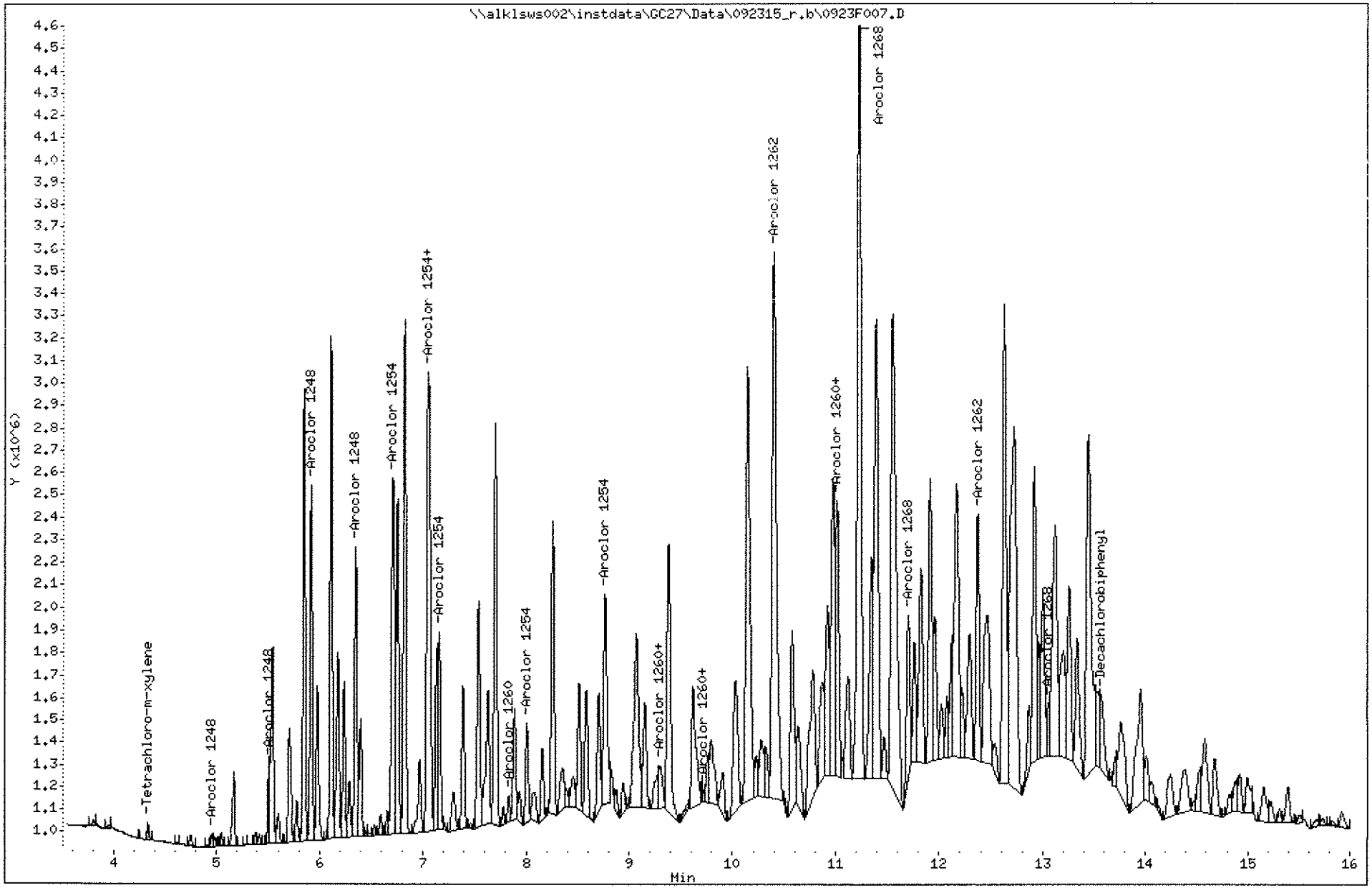
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Date : 23-SEP-2015 11:08
Client ID:
Sample Info: K1509213-003 100%

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

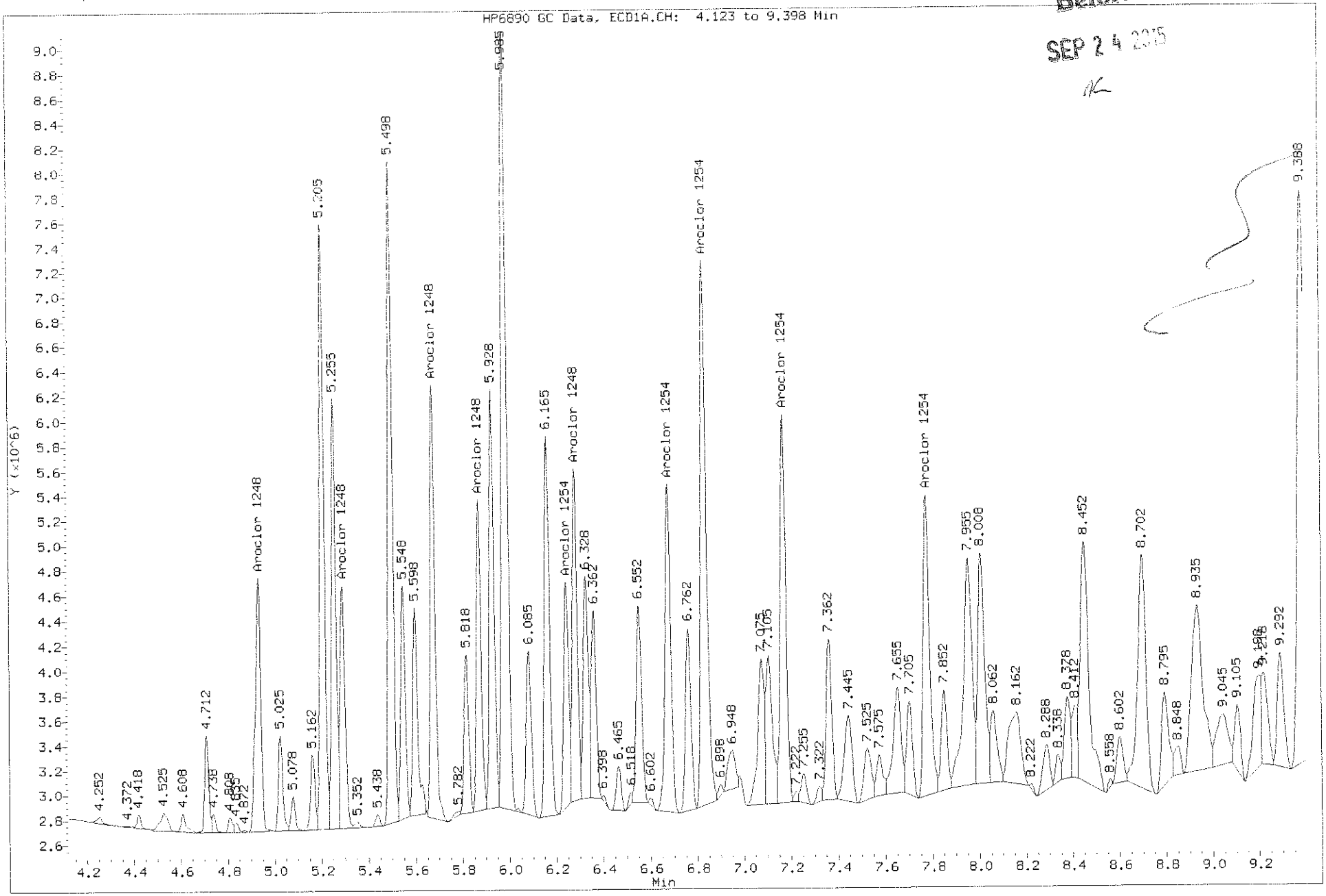
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

Before

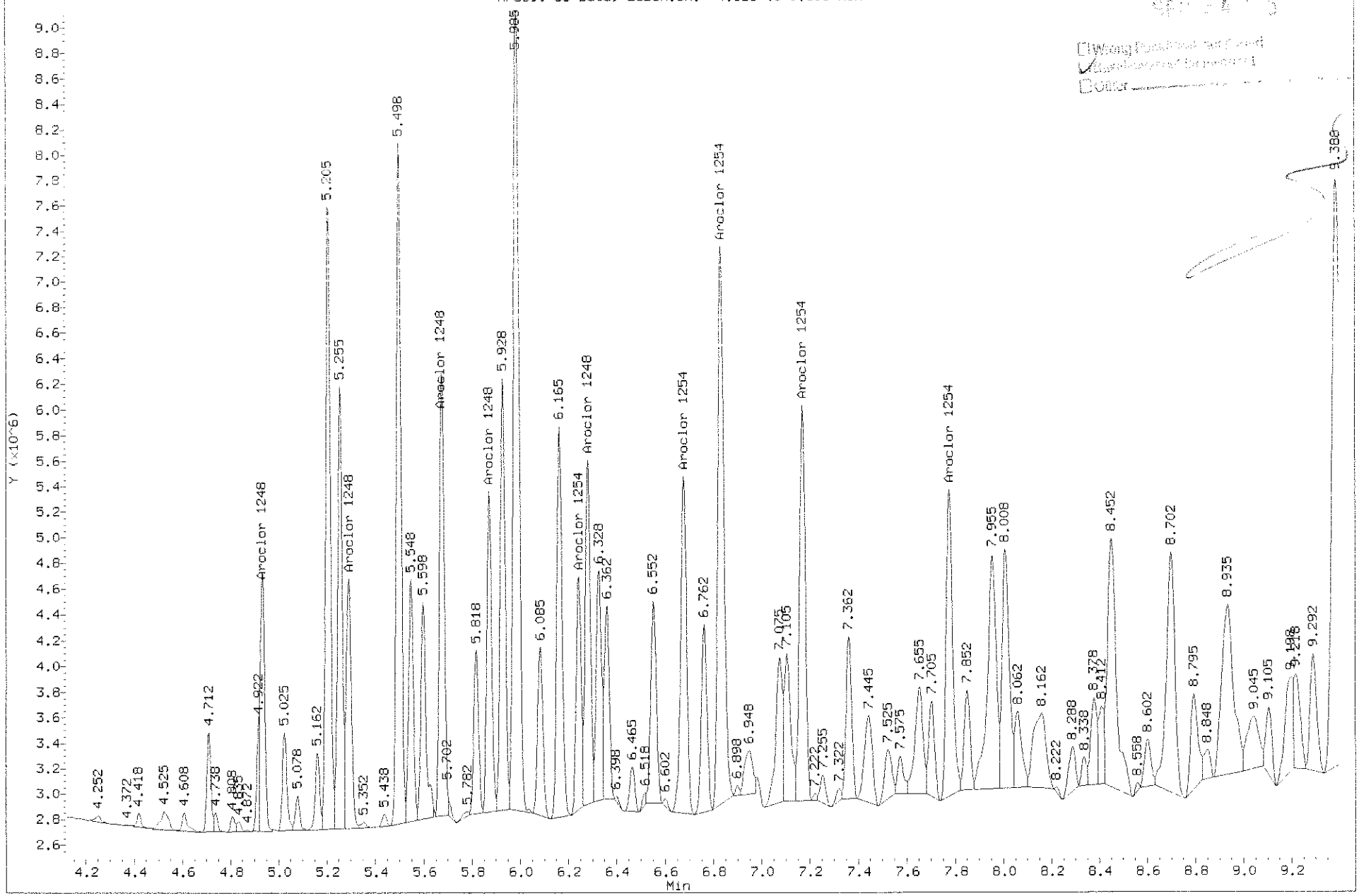
SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

After
Initials MR

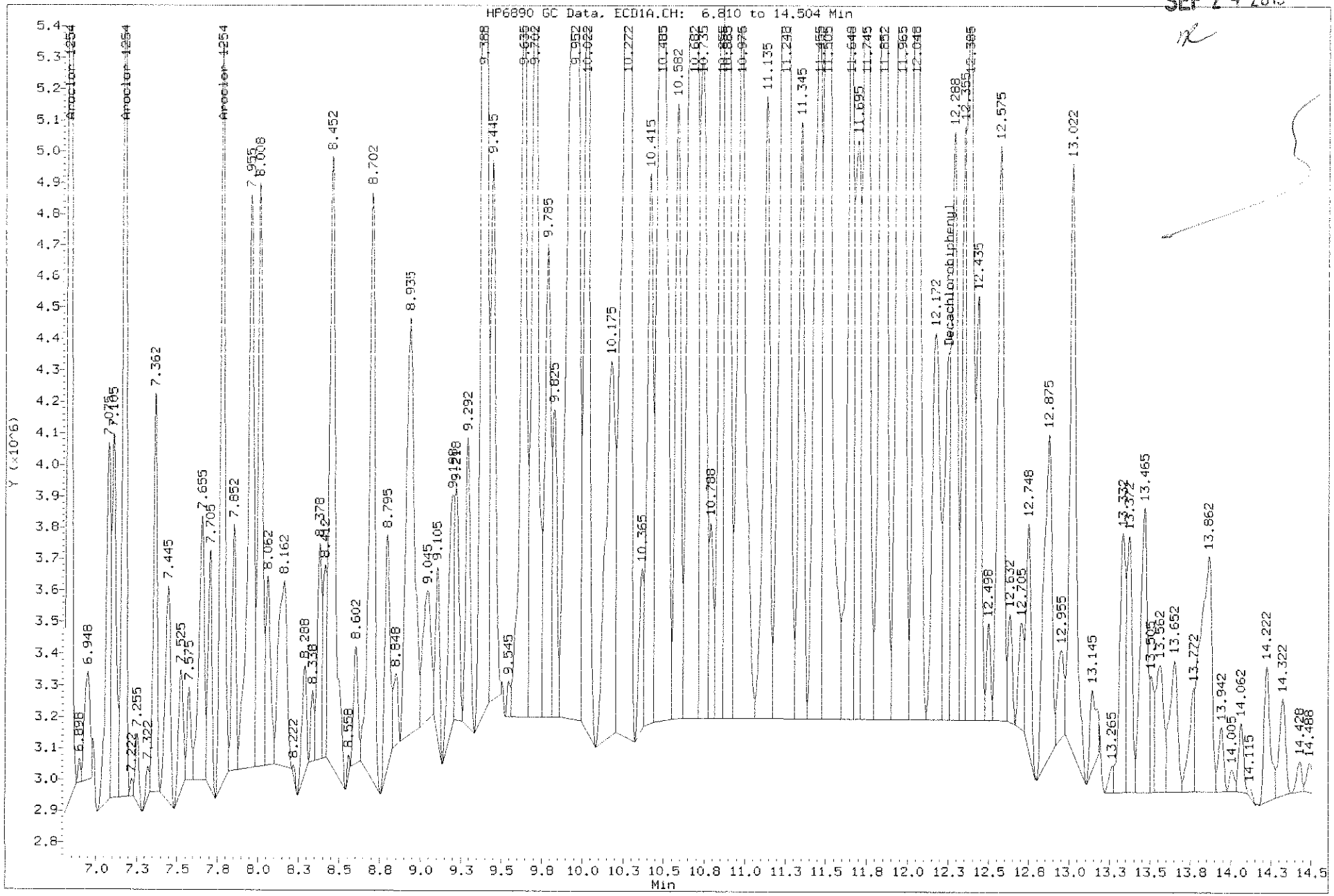
HP6890 GC Data, ECD1A.CH: 4.123 to 9.398 Min



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

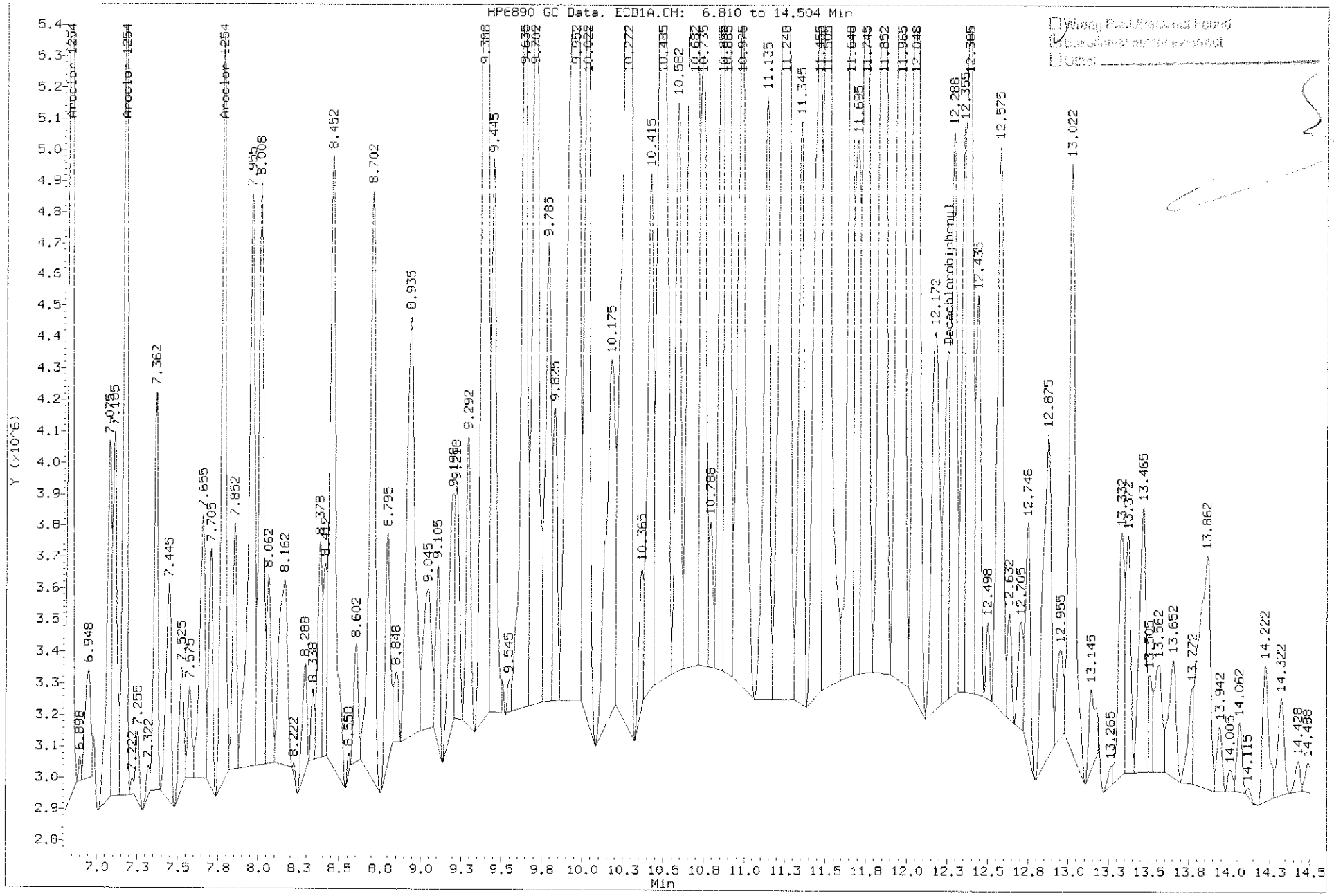
Before

SEP 24 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.1
Client Sample ID:

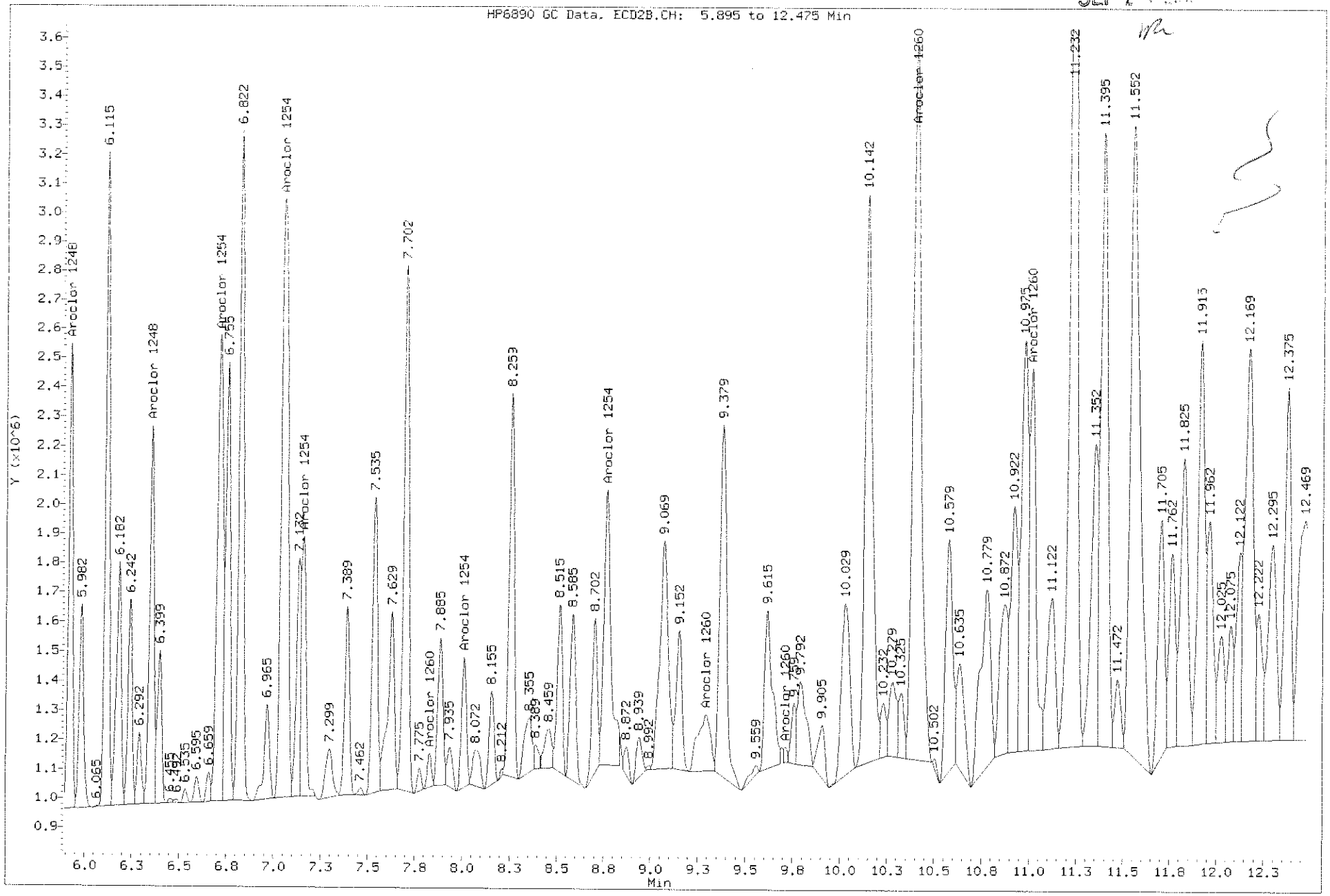
After
Include



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.1
Client Sample ID:

Before

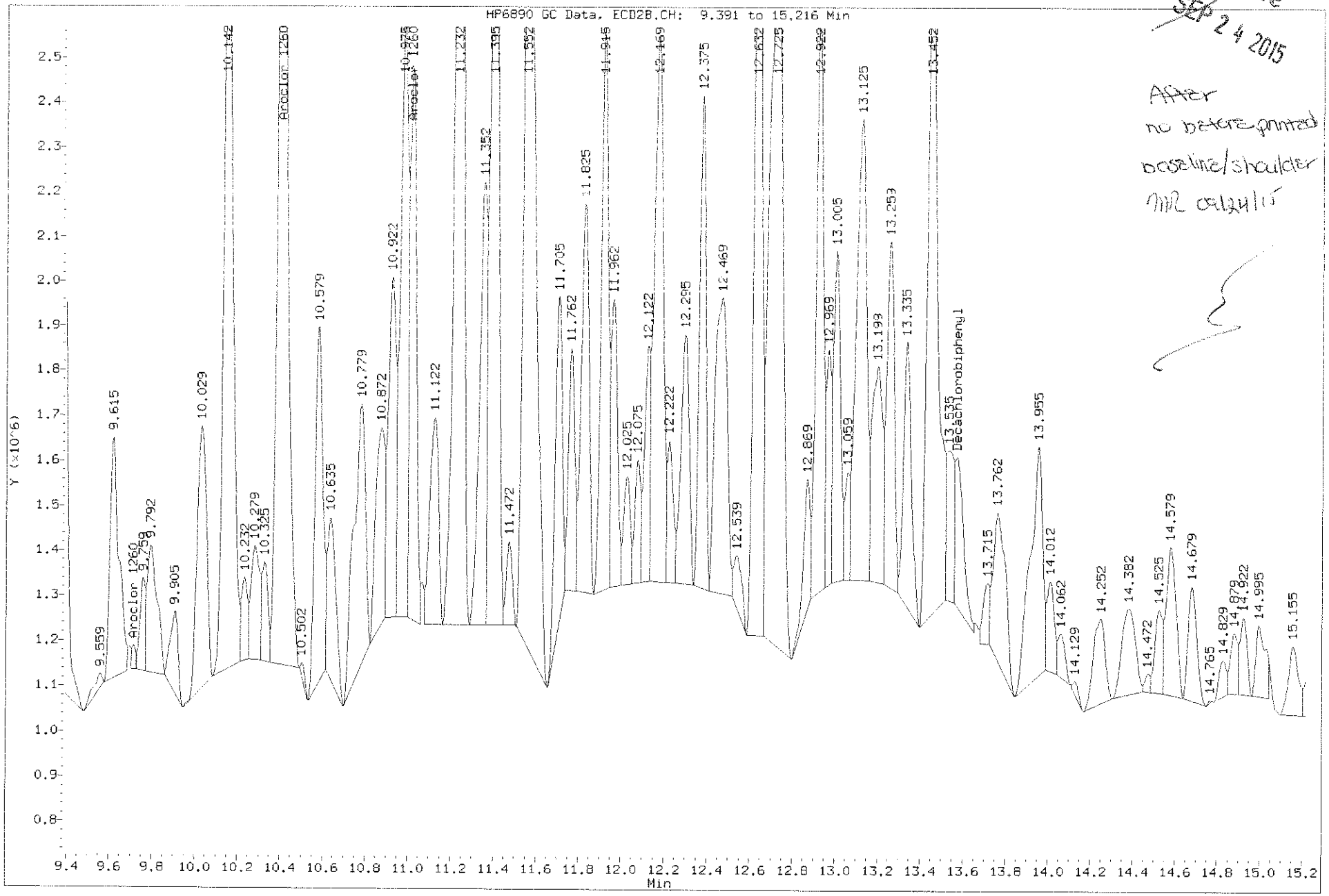
SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

Before
SEP 24 2015

After
no before printed
baseline/shoulder
MR 09/24/15



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F006.D
Lab ID: KWG1508974-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/23/2015 10:44
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MMC 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F006.D
Lab ID: KWG1508974-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/23/2015 10:44
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV dl
	Aroclor 1260	22.7	NA	20	ICV Dial

Primary Review: MR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:19
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D			**Vial:**	27
Acqu Date:	09/23/2015 10:44	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468017	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	13319824	6014107	75.24	76.46			76	OK
				%Recovery =	75 OK	76 OK	Limits =	10-135		
Decachlorobiphenyl	12.26 0.00	13.62 +0.00	12665022	6560651	80.09	79.67			80	OK
				%Recovery =	80 OK	80 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D			**Vial:**	27
Acqu Date:	09/23/2015 10:44	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.245 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
a: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D
Inj Date : 23-SEP-2015 10:44
Sample Info: KWG1508974-4 MB
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.876	4.337	13319824	6014107	75.2	76.5		100.00
Decachlorobiphenyl	12.256	13.620	12665022	6560651	80.1	79.7		100.00

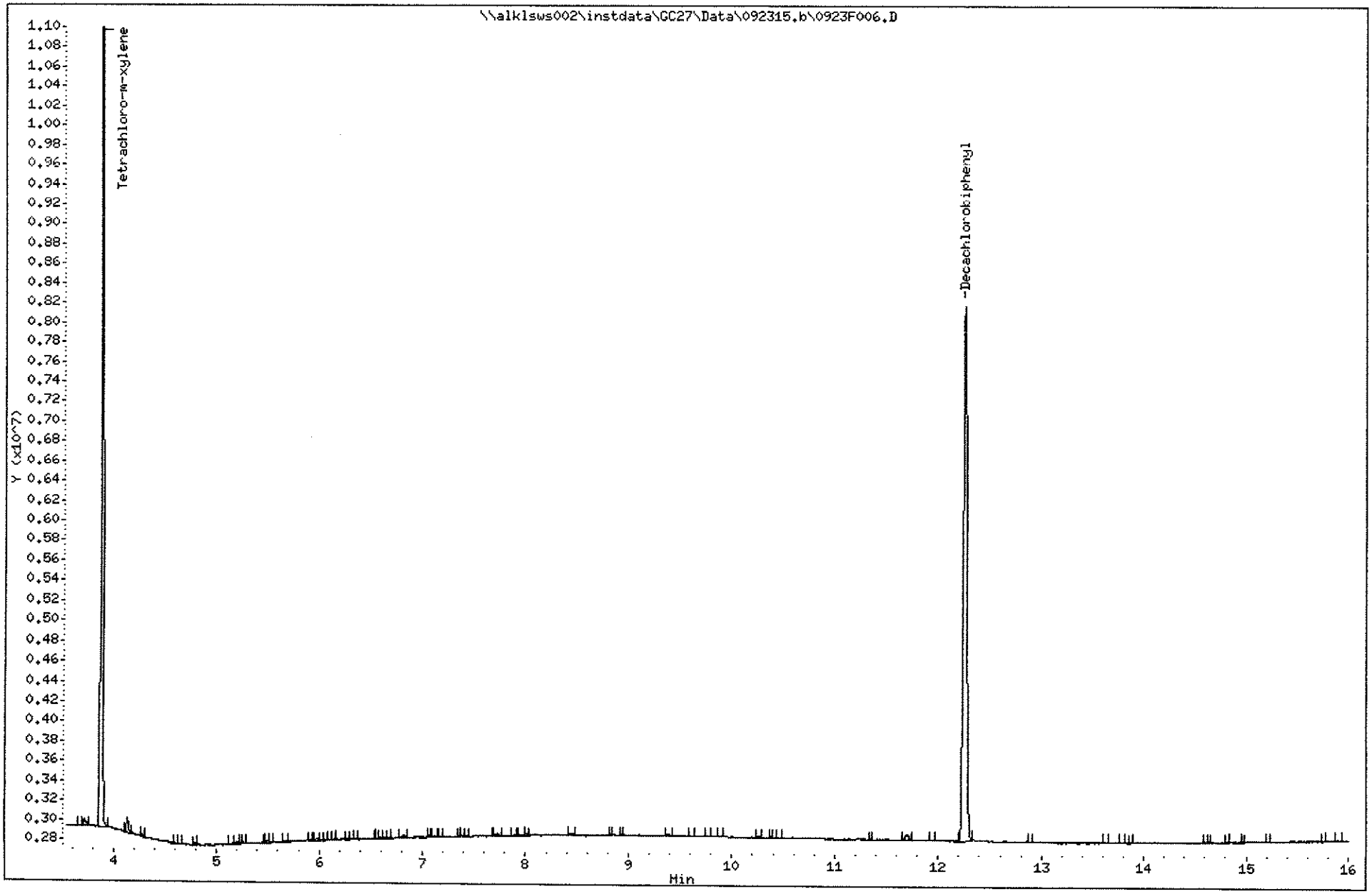
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Date : 23-SEP-2015 10:44
Client ID:
Sample Info: KWG1508974-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



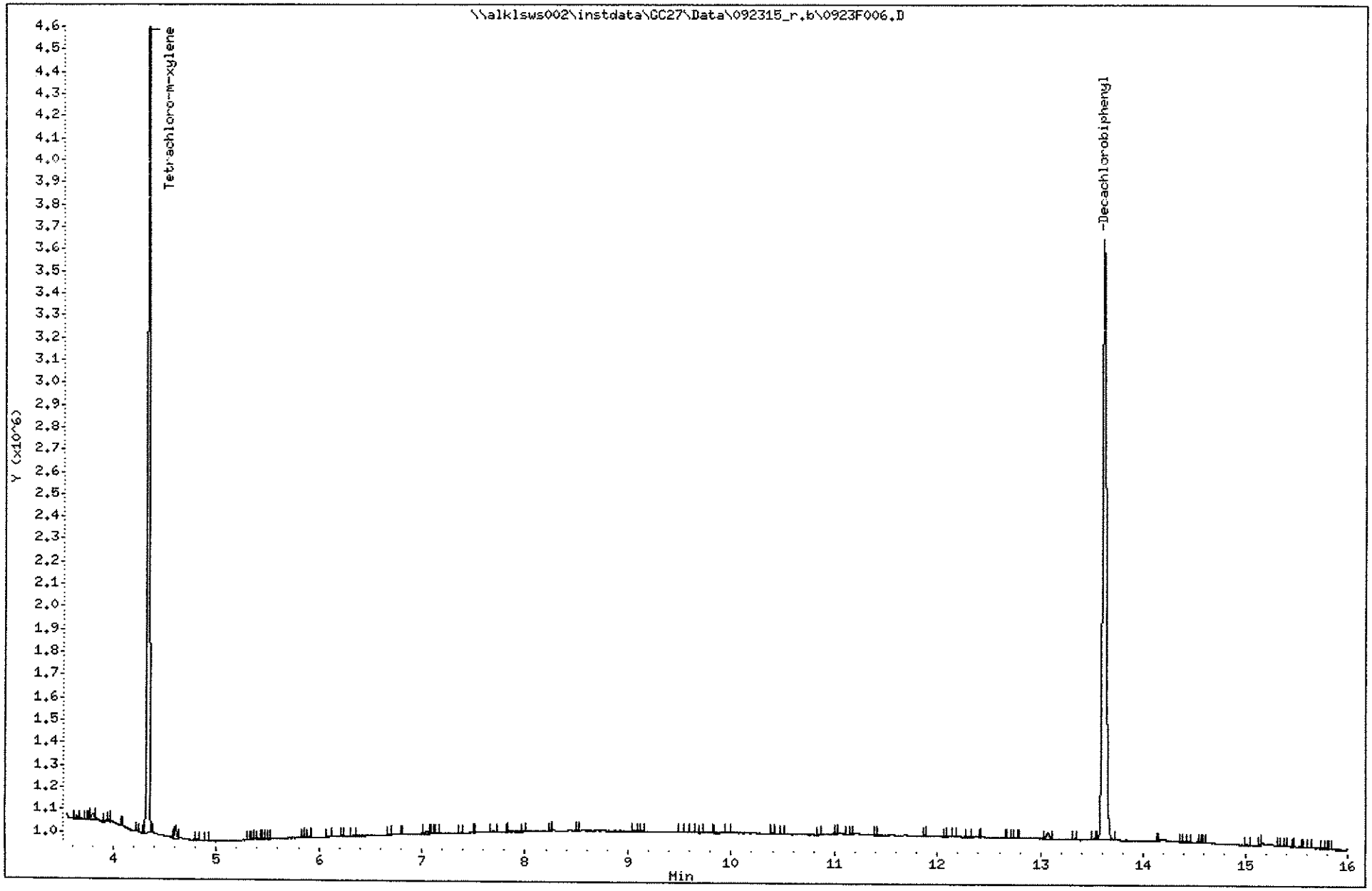
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D
Date : 23-SEP-2015 10:44
Client ID:
Sample Info: KWG1508974-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F008.D
Lab ID: KWG1508974-1 -- K1509213-003MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/23/2015 11:32
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MMR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:31
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F008.D
Lab ID: KWG1508974-1 -- K1509213-003MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/23/2015 11:32
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Ok

Primary Review: MR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:35
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D			**Vial:**	29
Acqu Date:	09/23/2015 11:32	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-1 -- K1509213-003MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468014	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	223480	87727	1.26	1.12			126 #
				%Recovery =	126 #	112 #	Limits =	10-135	
Decachlorobiphenyl	12.25 -0.01	13.66 +0.04	2562013m	61943m	16.20	0.7520			1620 #
				%Recovery =	1620 #	75 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	121.18	48.84	1370D	551JD	551JPD
Aroclor 1016 {1}	4.24 +0.00	4.62	106346m	29668	29.63	16.14	334JD	210U	
Aroclor 1016 {2}	4.74 0.00	4.96 +0.00	196302m	98246	65.52	40.35	739D	455JD	
Aroclor 1016 {3}	4.94	5.61 +0.02	2654544m	270000	268.38	90.02	3030D	1020D	
Aroclor 1016 {4}	5.21 +0.00	5.92 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}	5.50	6.12 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1221			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {1}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1232			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D			**Vial:**	29
Acqu Date:	09/23/2015 11:32	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-1 -- K1509213-003MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclors, Total			2023722	370843	216.29	122.09	2440JD	1380JD	**2440**JPD
Aroclor 1260			0	0	95.11	73.25	1070D	826D	**826**D
Aroclor 1260 {1}	7.08 +0.01	7.83 +0.00	1171958m	149079m	118.97	67.58	1340D	762D	
Aroclor 1260 {2}	8.06 -0.03	9.30 +0.03	1062892m	361804m	131.00	95.72	1480D	1080D	
Aroclor 1260 {3}	8.66 +0.01	9.72 +0.00	417381m	203734m	50.71	56.46	572D	637D	
Aroclor 1260 {4}	9.11	10.41 +0.02	1499738m	0m	79.78	0.0000	900D	210U	
Aroclor 1260 {5}		11.02 -0.01	0m	0m	0.0000	0.0000	210U	210U	
Aroclor 1262			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	210U	210U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.164 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Report Date: 24-Sep-2015 19:00

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Inj Date : 23-SEP-2015 11:32
Sample Info: K1509213-003 MS 100X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	223480	87727	1.26	1.12		100.00
Aroclor 1016	4.241	4.618	106346	29668	29.6	16.1	80.00- 120.00	100.00(MH)
	4.741	4.955	196302	98246	65.5	40.4	66.17- 99.26	184.59(MH)
	4.935	5.608	2654544	270000	268	90.0	214.31- 321.46	2496.14(MH)
	5.208	5.922					93.97- 140.96	0.00(MH)
	5.498	6.118					91.56- 137.33	0.00(MH)
		Average of Peak Amounts =			121	48.8		
Aroclor 1260	7.078	7.832	1171958	149079	119	67.6	80.00- 120.00	100.00(TMH)
	8.061	9.295	1062892	361804	131	95.7	70.24- 105.36	90.69(TMH)
	8.655	9.715	417381	203734	50.7	56.5	71.65- 107.48	35.61(TMH)
	9.105	10.405	1499738		79.8		165.26- 247.89	127.97(TMH)
	0.000	11.018					217.62- 326.43	0.00(TMH)
		Average of Peak Amounts =			95.1	73.3		
Decachlorobiphenyl	12.251	13.658	2562013	61943	16.2	0.752		100.00(M)
Aroclors, Total	0.000	0.000	2023722	370843	216	122		100.00

QC Flag Legend

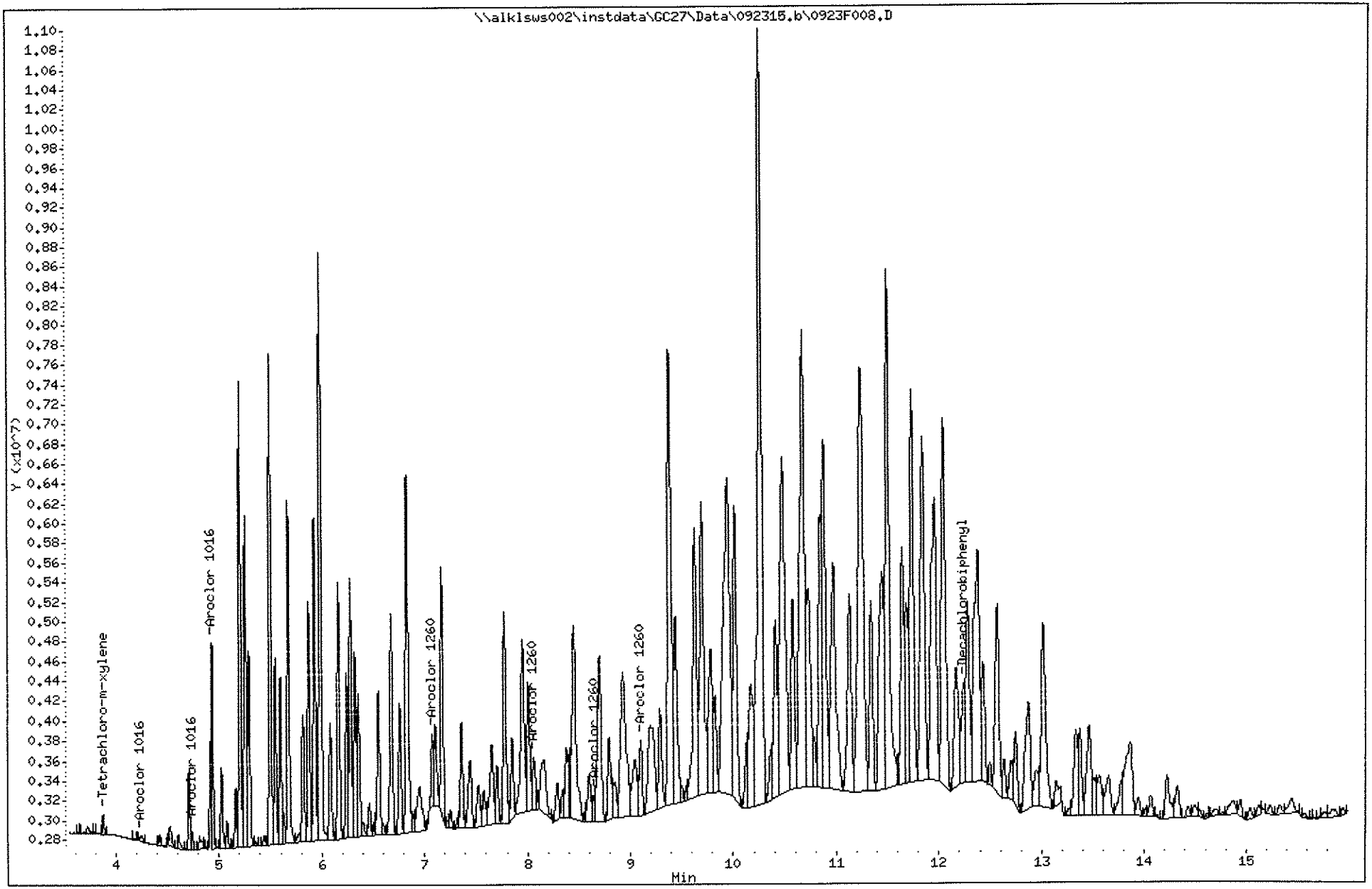
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Date : 23-SEP-2015 11:32
Client ID:
Sample Info: K1509213-003 MS 100X

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-35MS

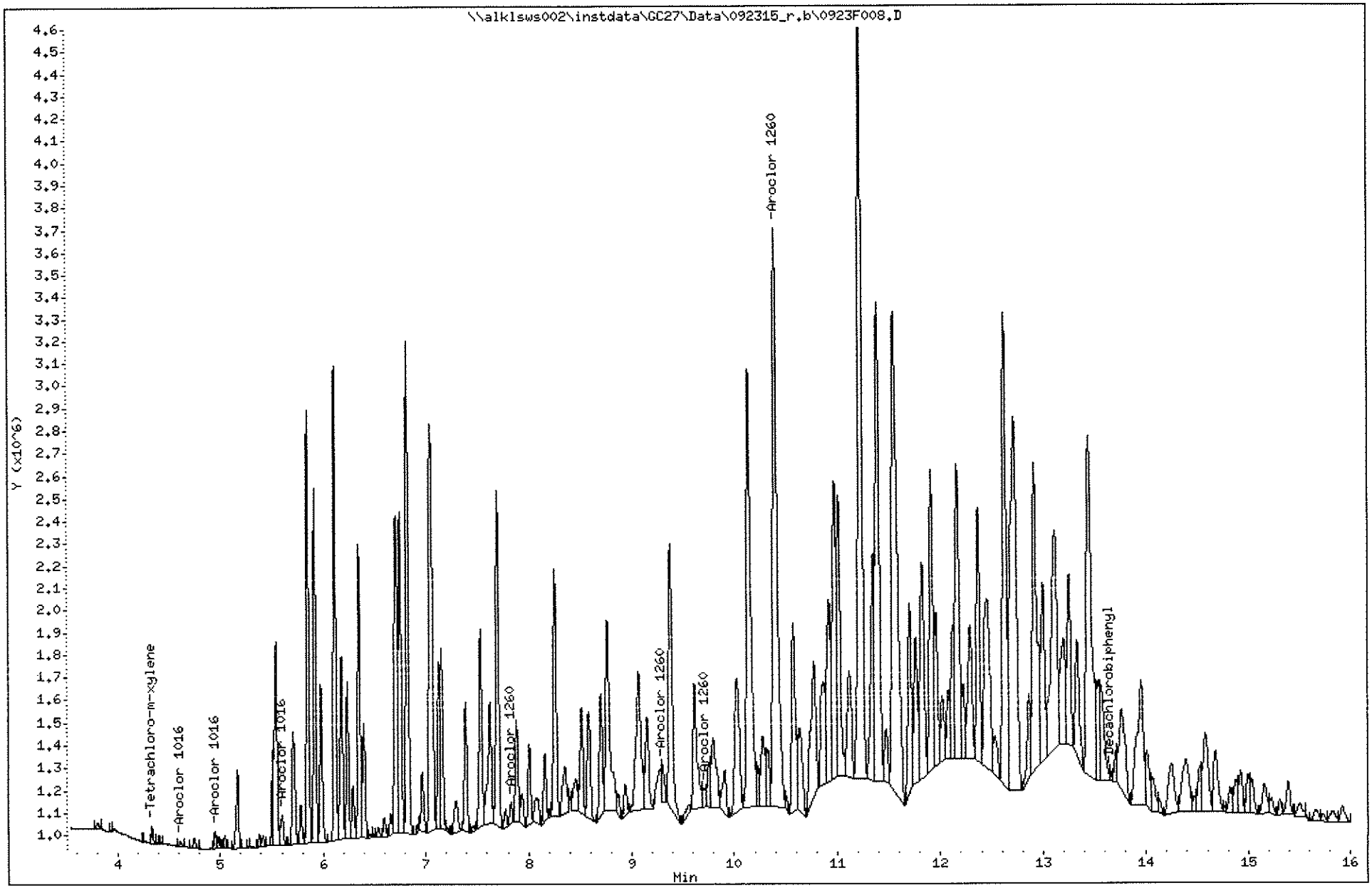


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Date : 23-SEP-2015 11:32
Client ID:
Sample Info: K1509213-003 MS 100X

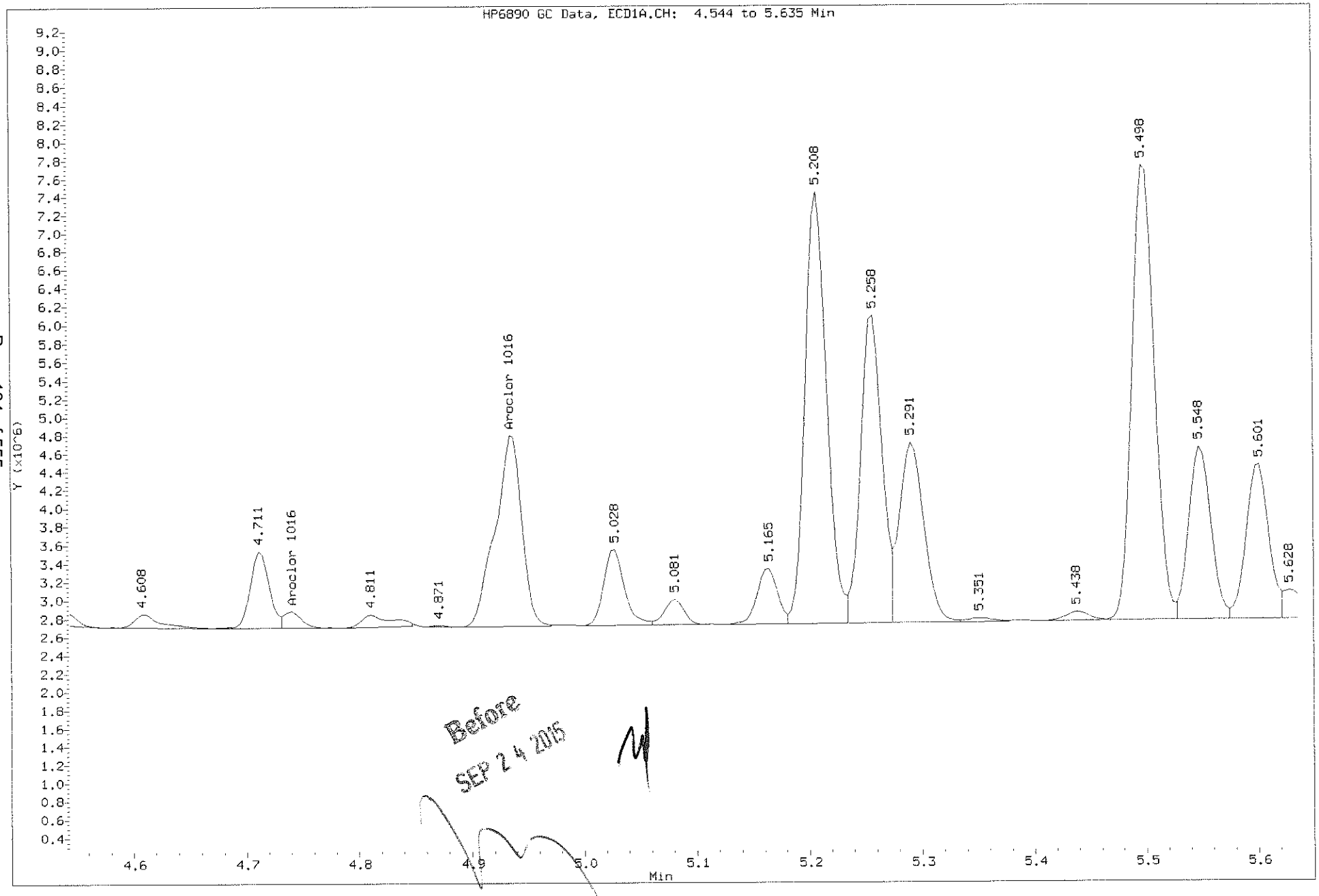
Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB

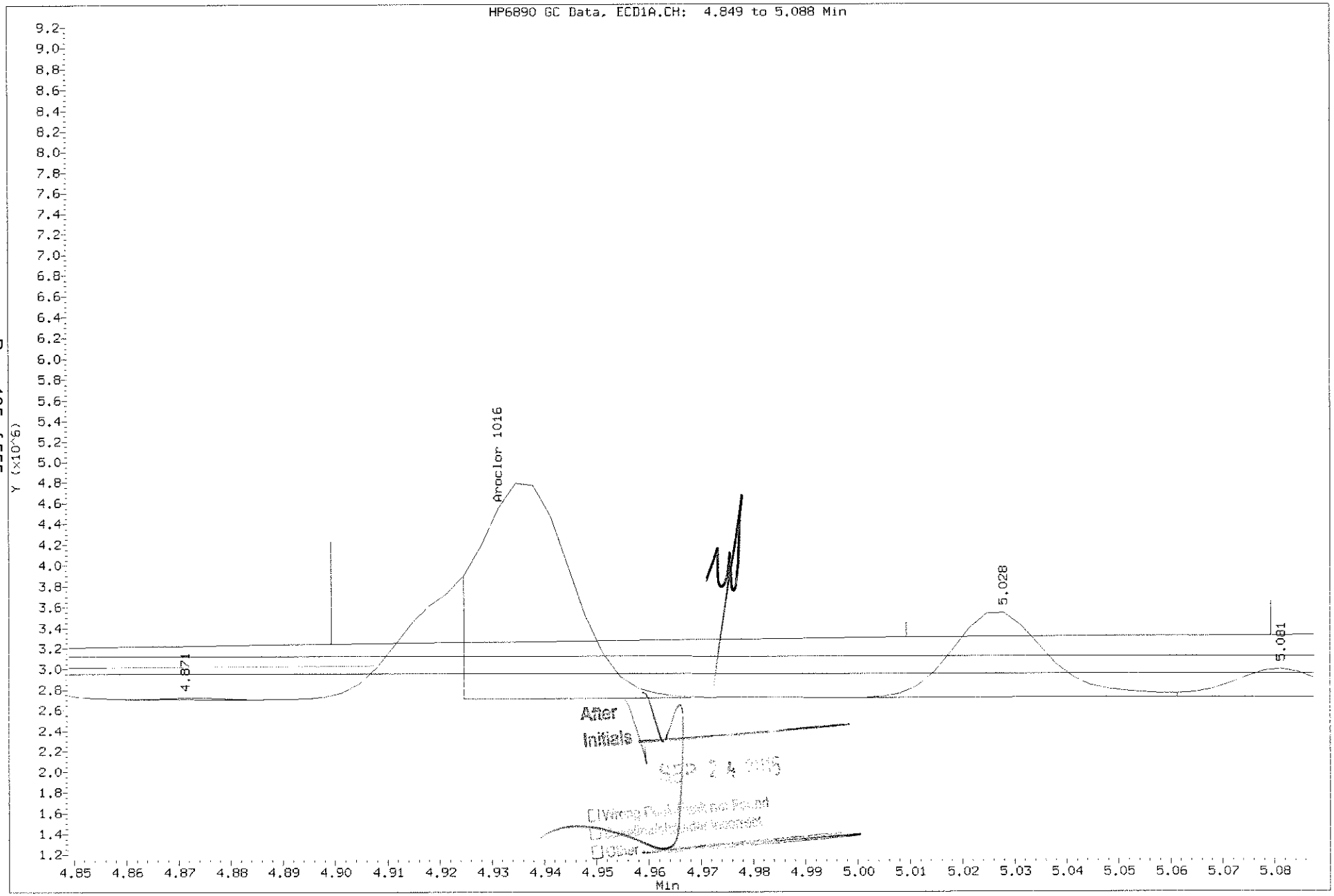


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

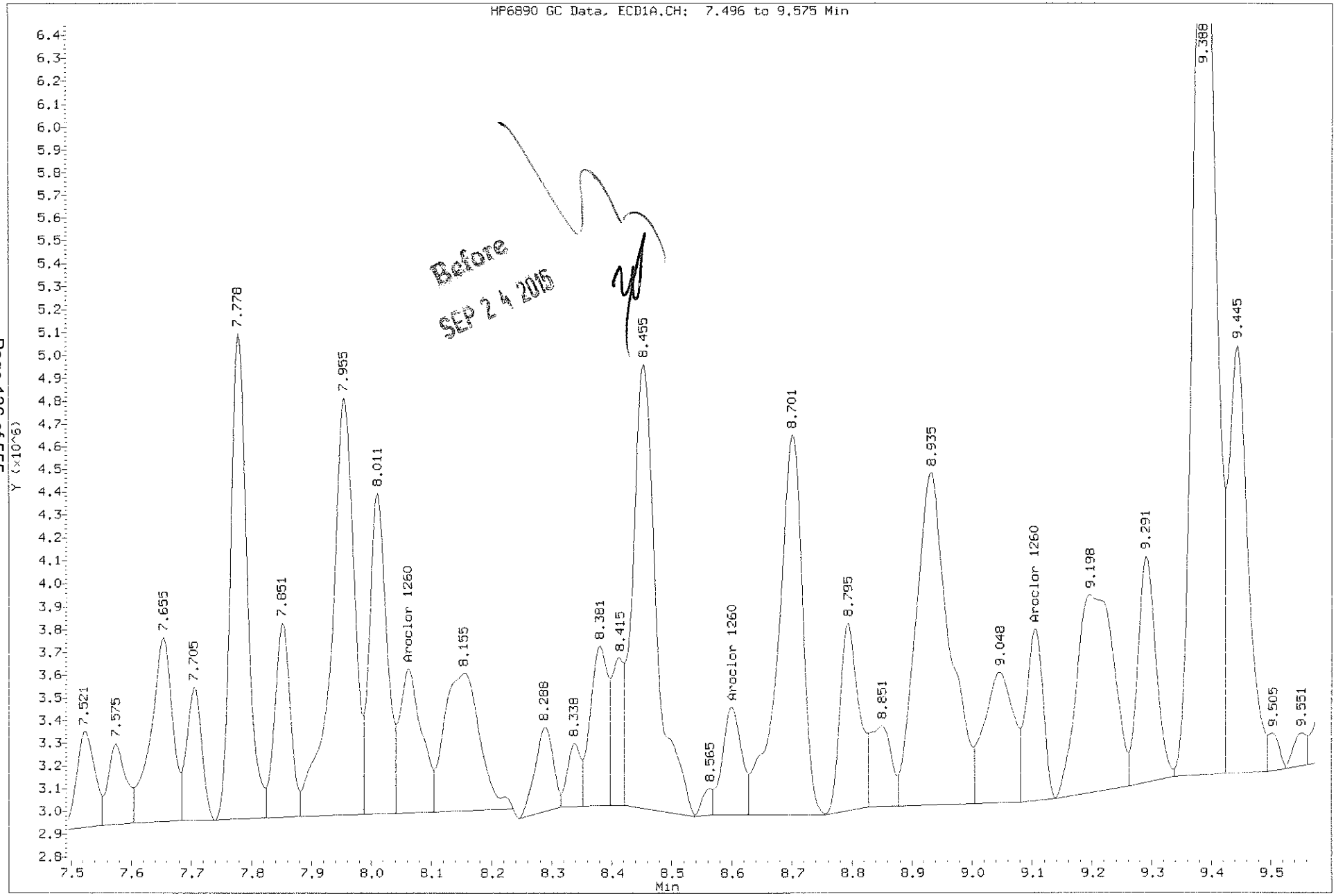


Before
SEP 24 2015

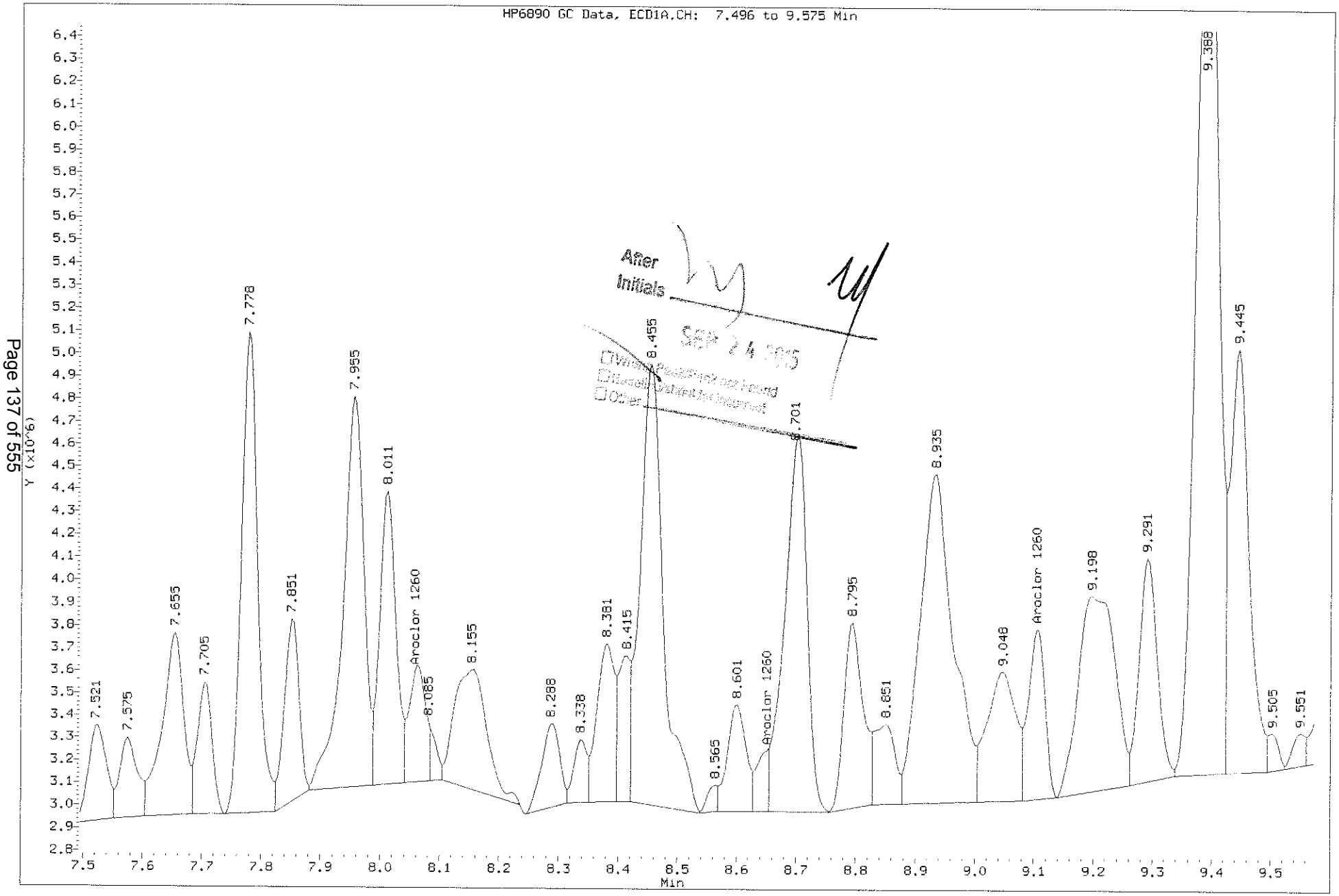
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



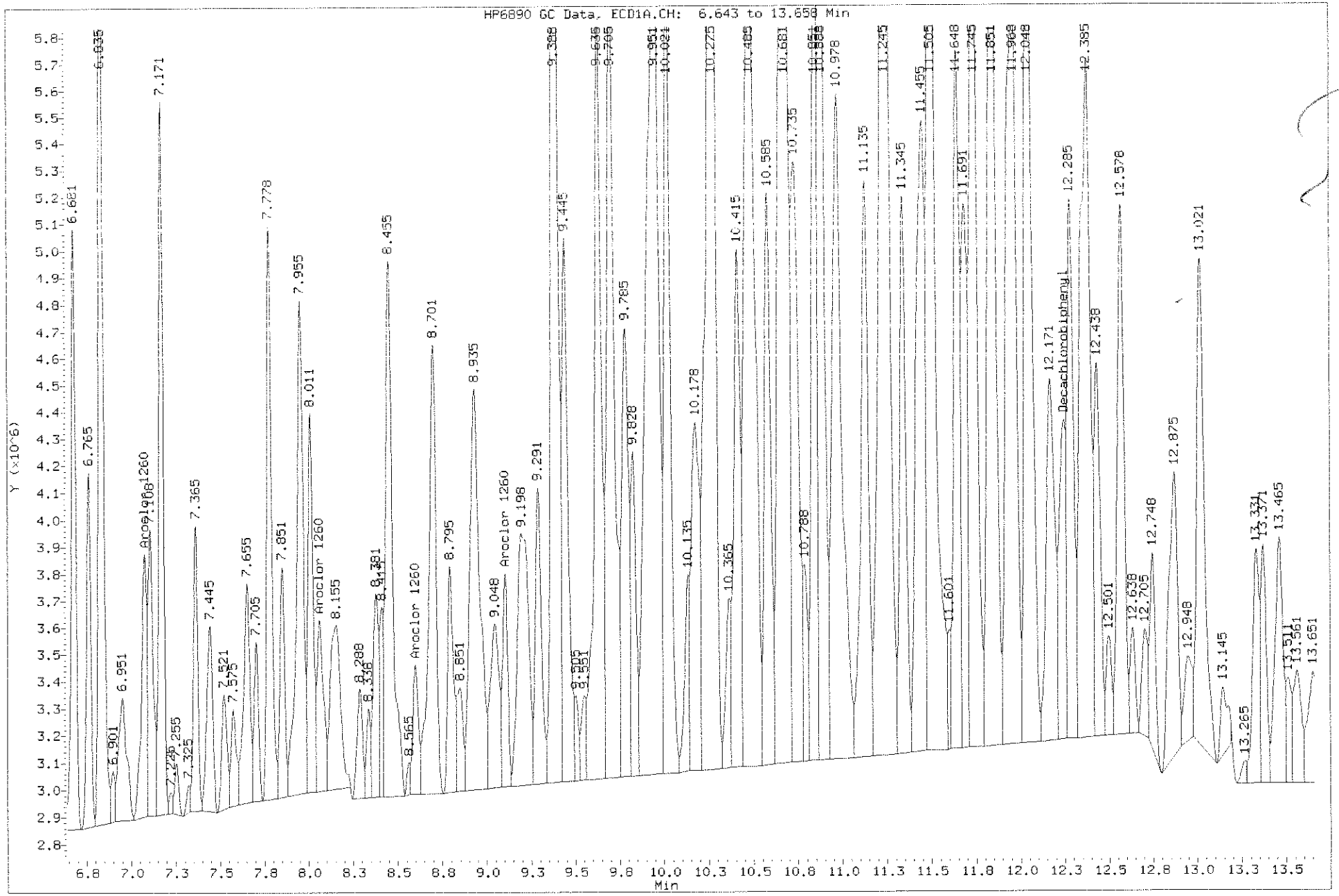
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Before

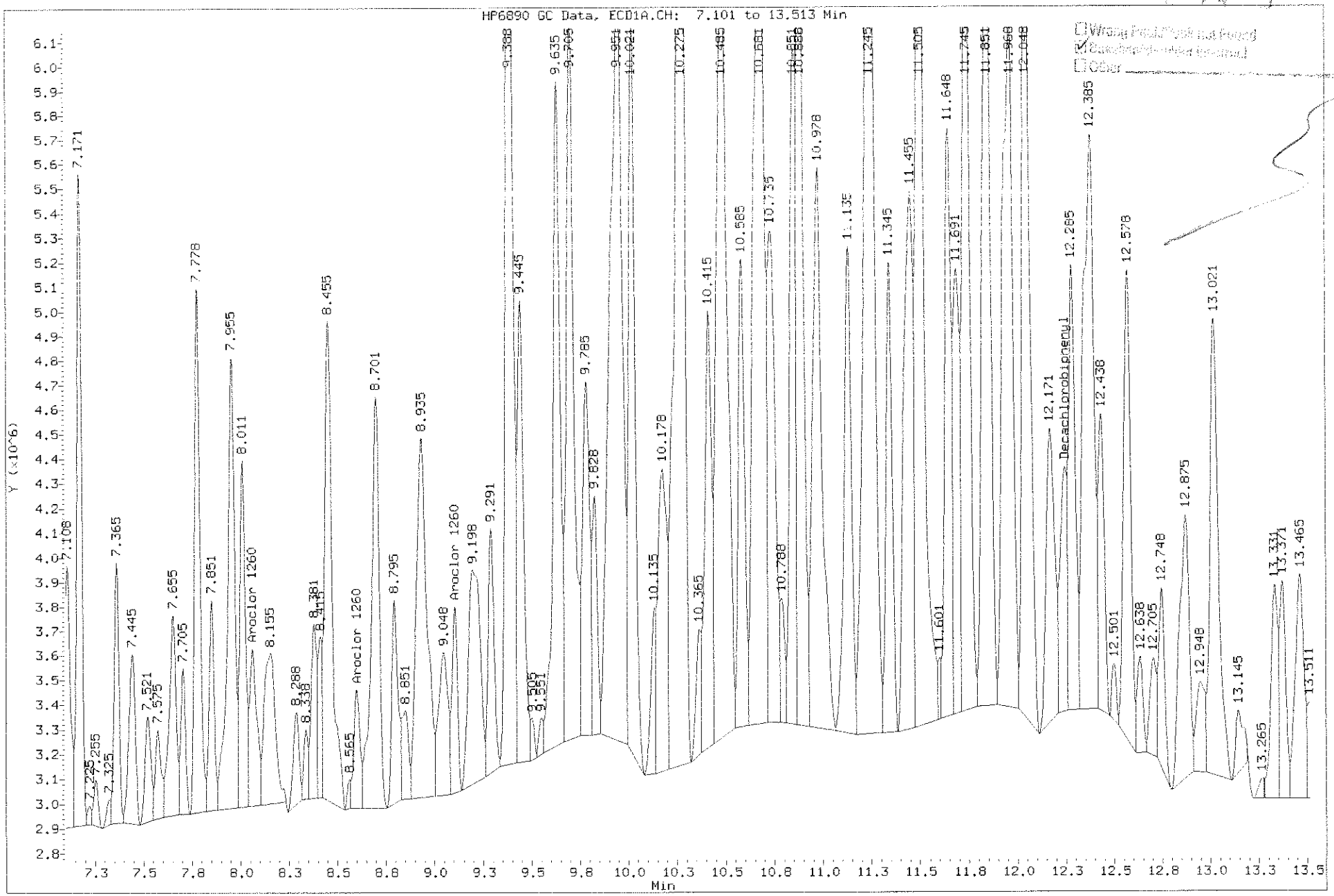
SEP 2 4 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

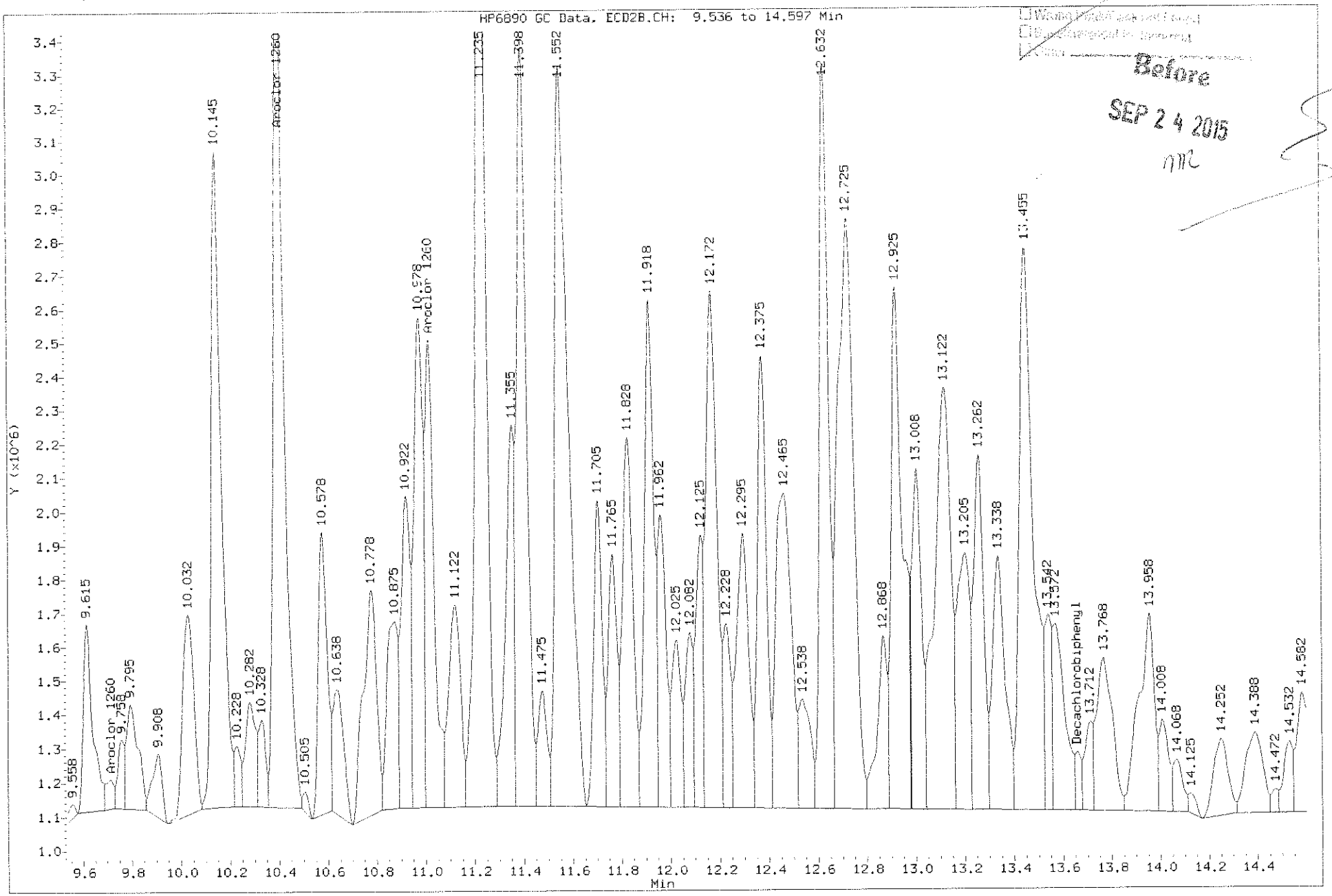


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

After
Initials PC
SEP 24 2015



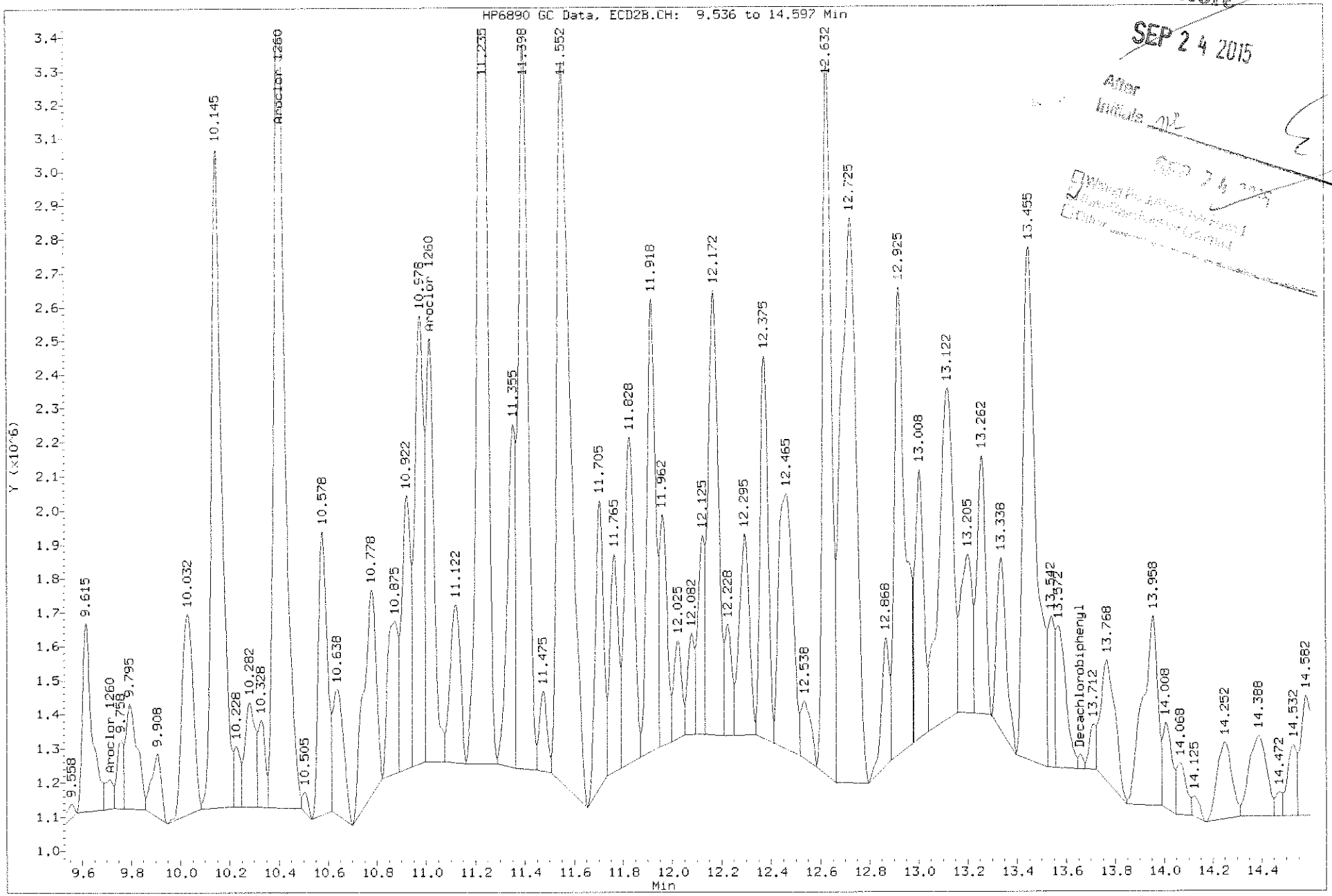
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Acer
Before
SEP 24 2015
mc

Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

Before
SEP 24 2015
After
Initials



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F009.D
Lab ID: KWG1508974-2 -- K1509213-003DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/23/2015 11:55
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F009.D
Lab ID: KWG1508974-2 -- K1509213-003DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/23/2015 11:55
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOW dl
	Aroclor 1260	22.7	NA	20	IOW Dual

Primary Review: DDR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D			**Vial:**	30
Acqu Date:	09/23/2015 11:55	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-2 -- K1509213-003DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468015	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 +0.00	4.34 +0.00	224098	82305	1.27	1.05			127 #
				%Recovery =	127 #	105 #	Limits =	10-135	
Decachlorobiphenyl	12.25 -0.01		2198317m	0	13.90	0.0000			1390 #
				%Recovery =	1390 #	0 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	111.24	48.02	1250D	541JD	541JPD
Aroclor 1016 {1}	4.24 +0.01	4.62 +0.00	108738m	27134	30.30	14.76	341JD	210U	
Aroclor 1016 {2}	4.74 0.00	4.95 +0.00	147329m	93016	49.17	38.21	554JD	430JD	
Aroclor 1016 {3}	4.94 +0.00	5.61 +0.02	2514662m	273247	254.24	91.11	2860D	1030D	
Aroclor 1016 {4}	5.21 +0.00	5.92 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}	5.50 +0.00	6.12 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1221			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {1}			0d	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {2}			0d	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	210U	210U	
Aroclor 1232			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul: fails acceptance criteria
&: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D			**Vial:**	30
Acqu Date:	09/23/2015 11:55	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-2 -- K1509213-003DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclors, Total			1736638	314703	187.67	106.05	2110JD	1190JD	**2110**JPD
Aroclor 1260			0	0	76.43	58.02	860D	653D	**860**D
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	1056442m	147697m	107.25	66.96	1210D	754D	
Aroclor 1260 {2}	8.06 -0.03	9.28 +0.01	860660m	364094m	106.07	96.33	1190D	1080D	
Aroclor 1260 {3}	8.65 +0.00	9.71 +0.00	313114m	38923m	38.04	10.79	428JD	210U	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.02	1022031m	0m	54.37	0.0000	612D	210U	
Aroclor 1260 {5}		11.02 -0.01	0m	0m	0.0000	0.0000	210U	210U	
Aroclor 1262			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	210U	210U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.245 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
+: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Report Date: 24-Sep-2015 19:00

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Inj Date : 23-SEP-2015 11:55
Sample Info: K1509213-003 DMS 100X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	224098	82305	1.27	1.05		100.00
Aroclor 1016	4.243	4.619	108738	27134	30.3	14.8	80.00- 120.00	100.00(MH)
	4.739	4.953	147329	93016	49.2	38.2	66.17- 99.26	135.49(MH)
	4.936	5.606	2514662	273247	254	91.1	214.31- 321.46	2312.59(MH)
	5.206	5.923					93.97- 140.96	0.00(MH)
	5.499	6.116					91.56- 137.33	0.00(MH)
		Average of Peak Amounts =			111	48.0		
Aroclor 1260	7.076	7.829	1056442	147697	107	67.0	80.00- 120.00	100.00(TMH)
	8.063	9.279	860660	364094	106	96.3	70.24- 105.36	81.47(TMH)
	8.646	9.713	313114	38923	38.0	10.8	71.65- 107.48	29.64(TMH)
	9.106	10.403	1022031		54.4		165.26- 247.89	96.74(TMH)
	0.000	11.016					217.62- 326.43	0.00(TMH)
		Average of Peak Amounts =			76.4	58.0		
Decachlorobiphenyl	12.253	0.000	2198317	0	13.9	0.000		100.00(M)
Aroclors, Total	0.000	0.000	1736638	314703	188	106		100.00

QC Flag Legend

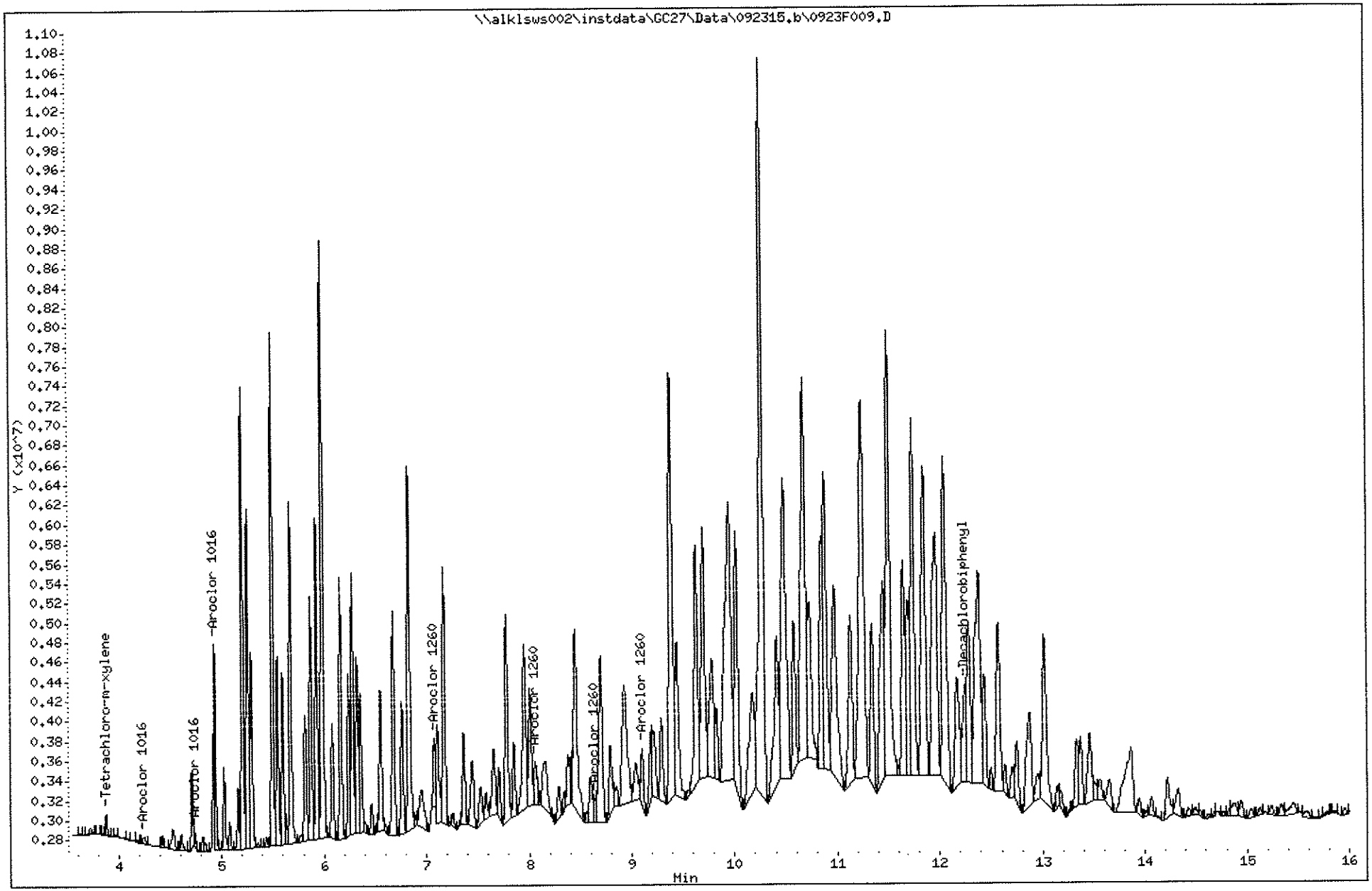
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Date : 23-SEP-2015 11:55
Client ID:
Sample Info: K1509213-003 DMS 100X

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

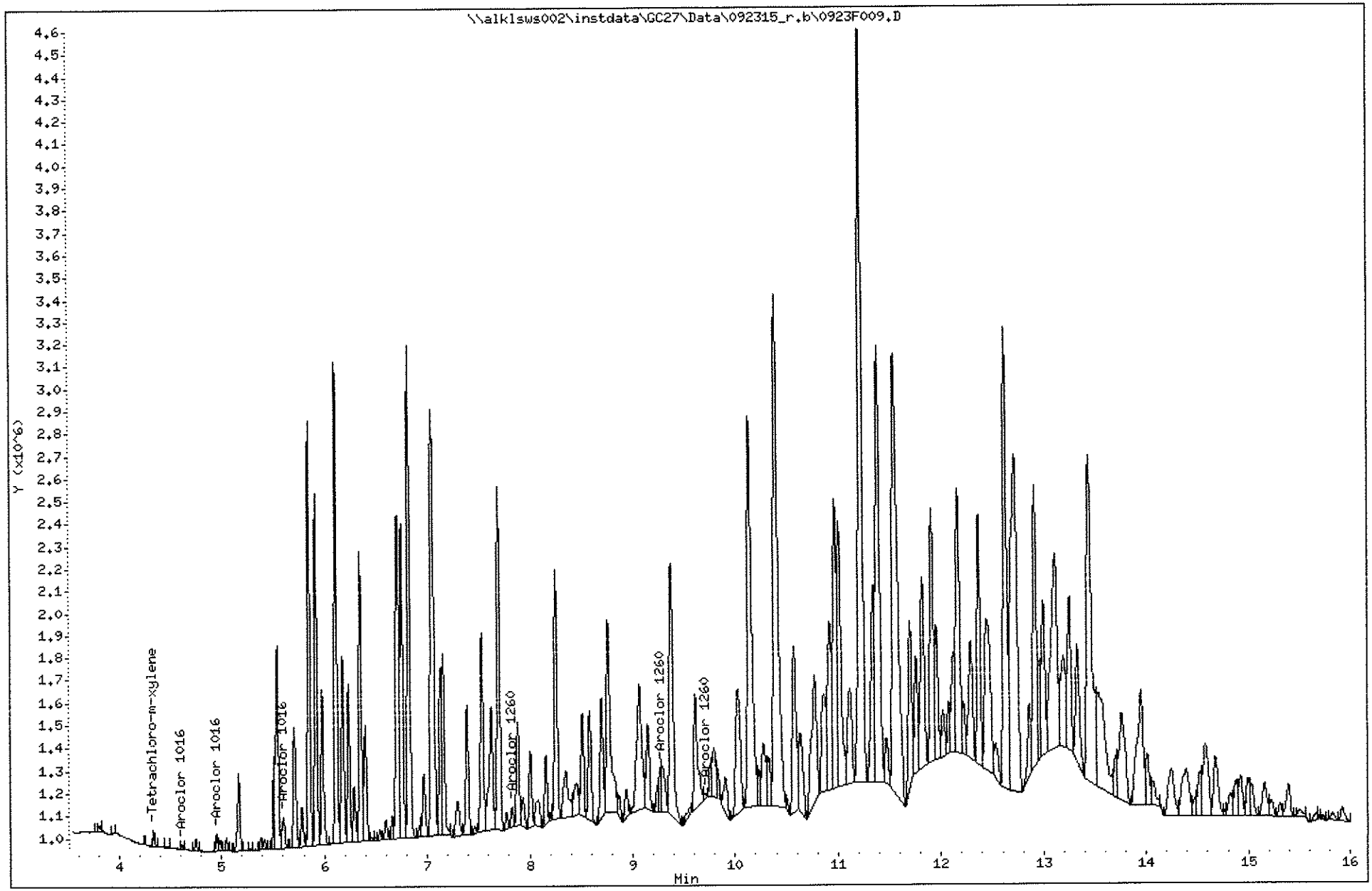


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Date : 23-SEP-2015 11:55
Client ID:
Sample Info: K1509213-003 DMS 100X

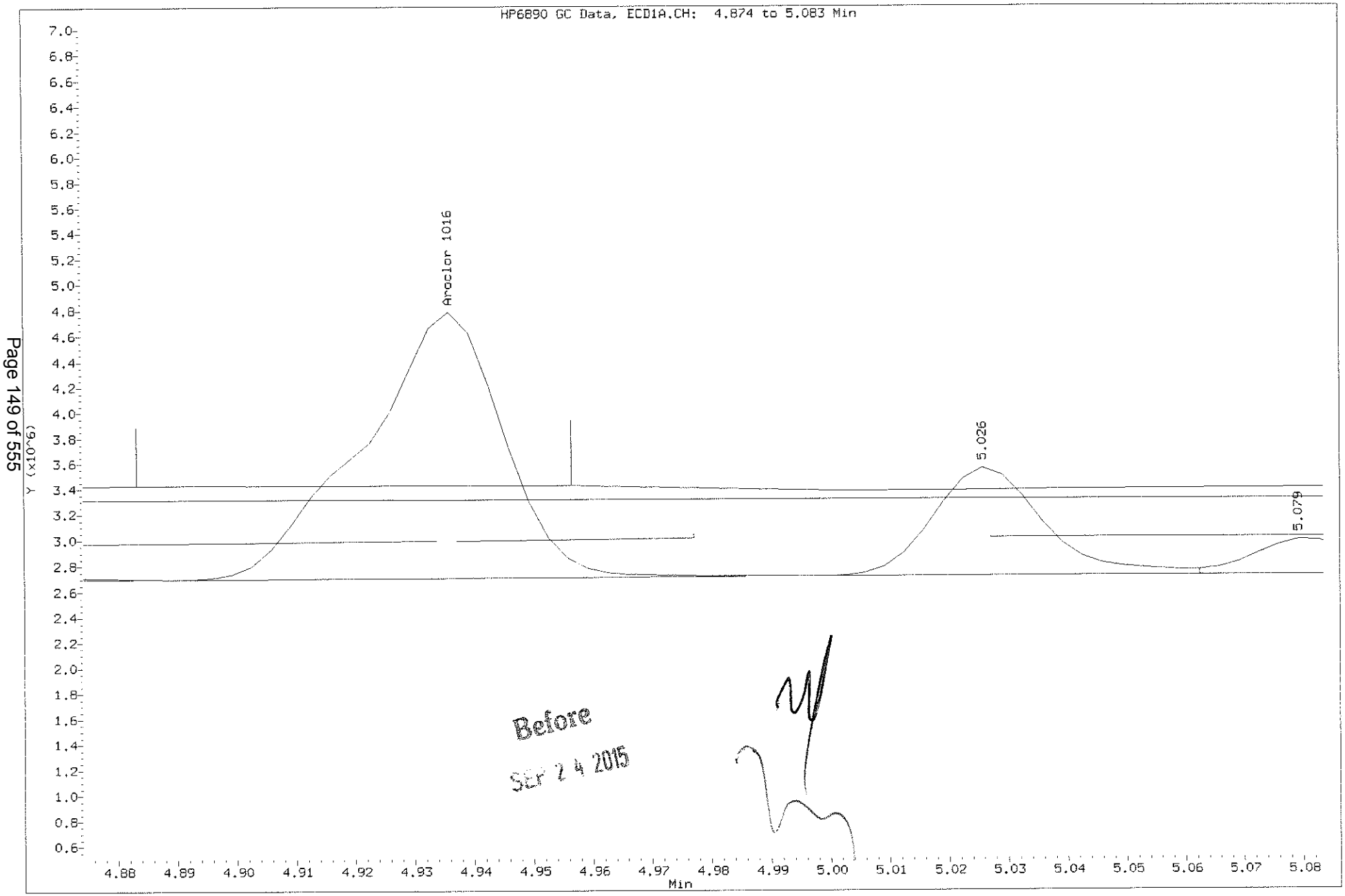
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

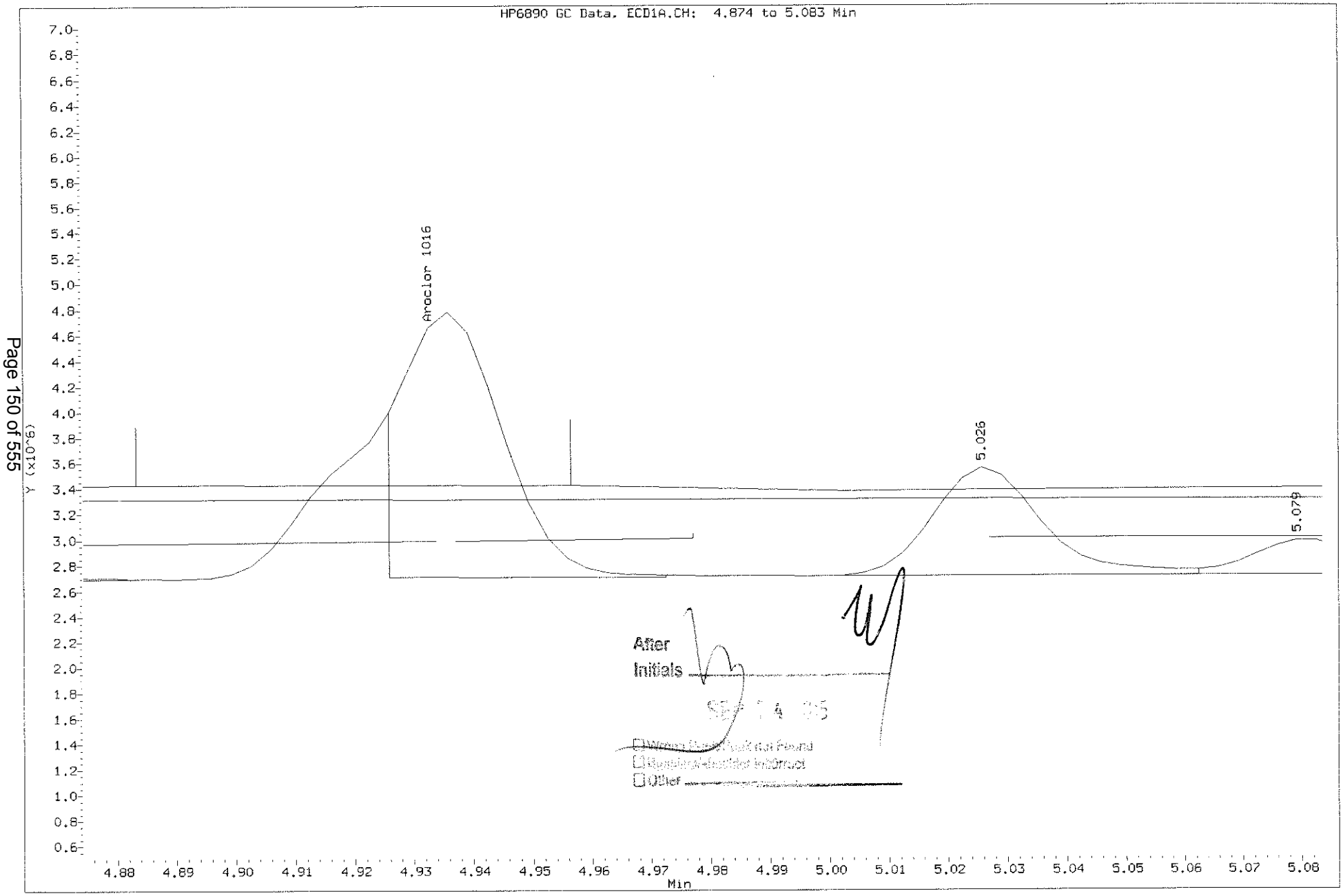


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:

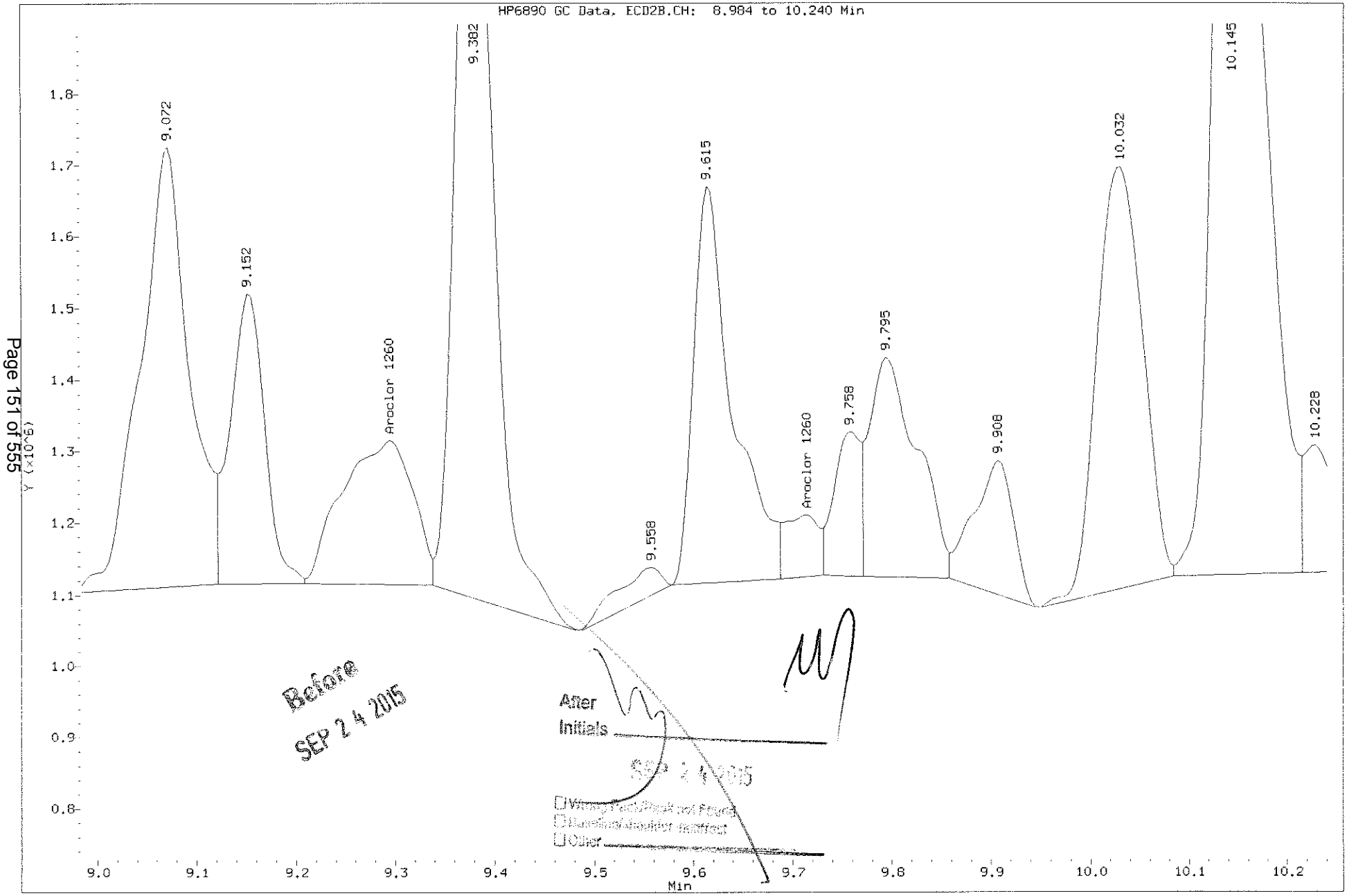


Before
SEP 24 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



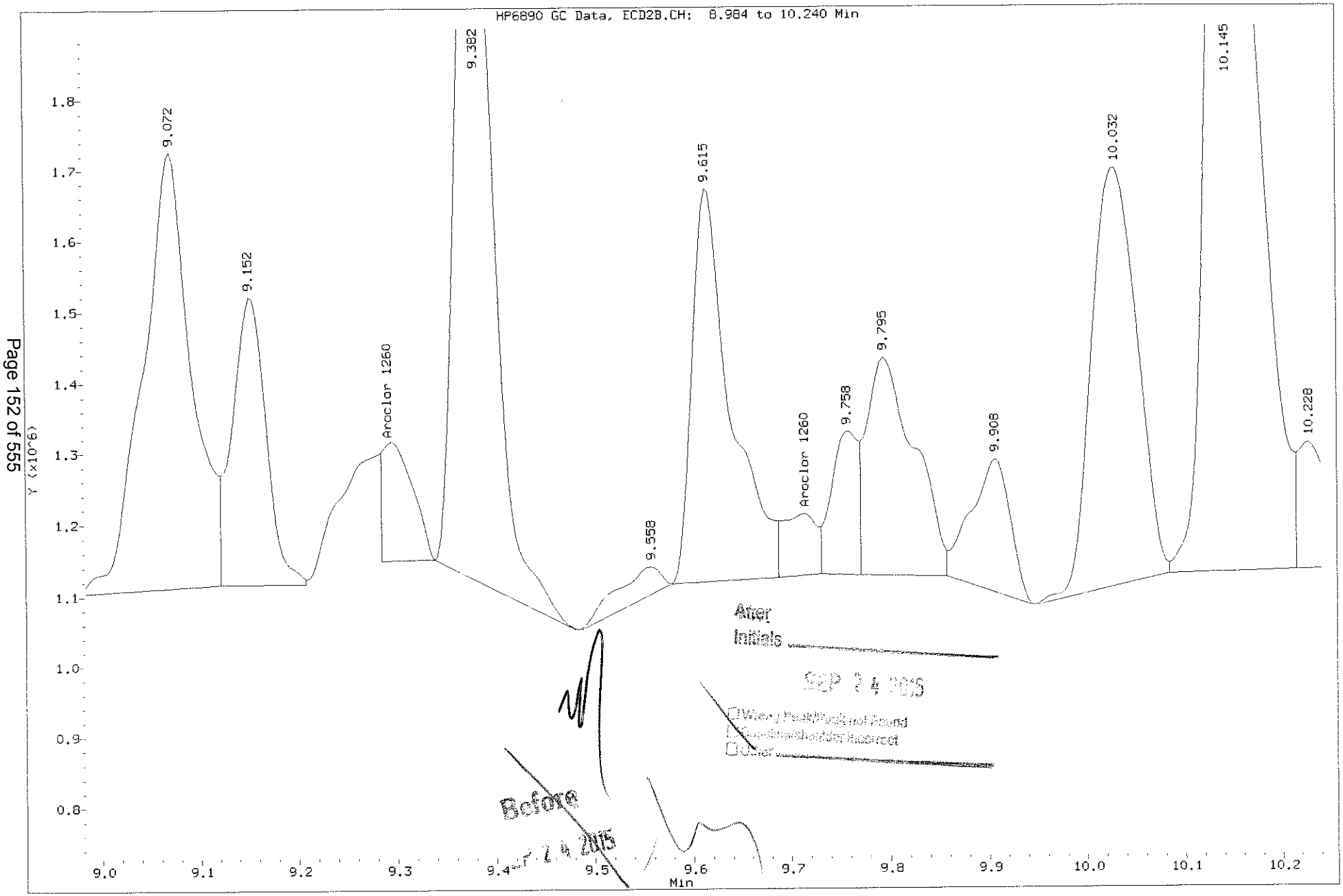
Before
SEP 24 2015

After
Initials

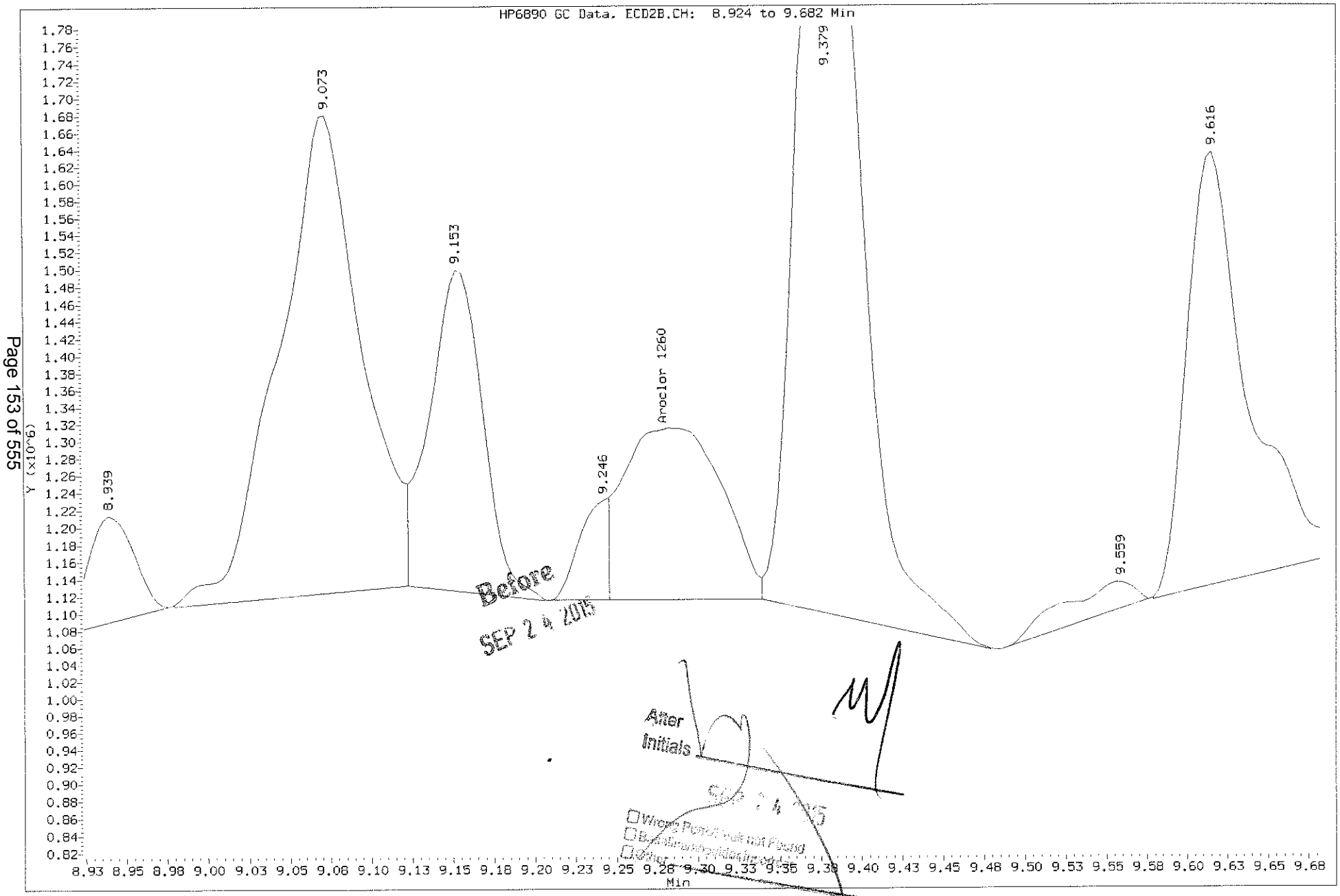
SEP 24 2015

☐ Missing Peak/Peak not Found
☐ Baseline/Integration Incorrect
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



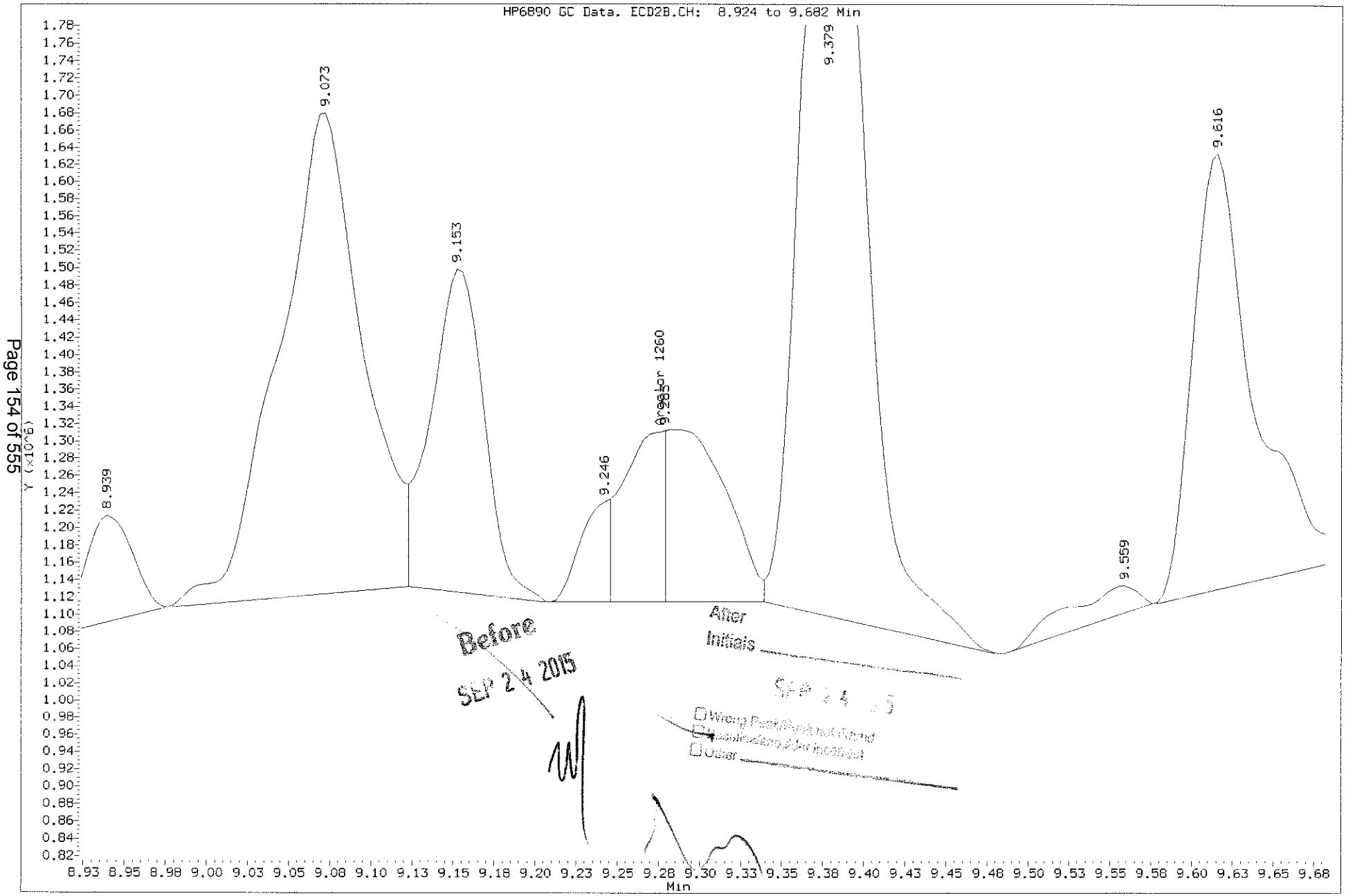
Before
SEP 2 4 2015

After
Initials

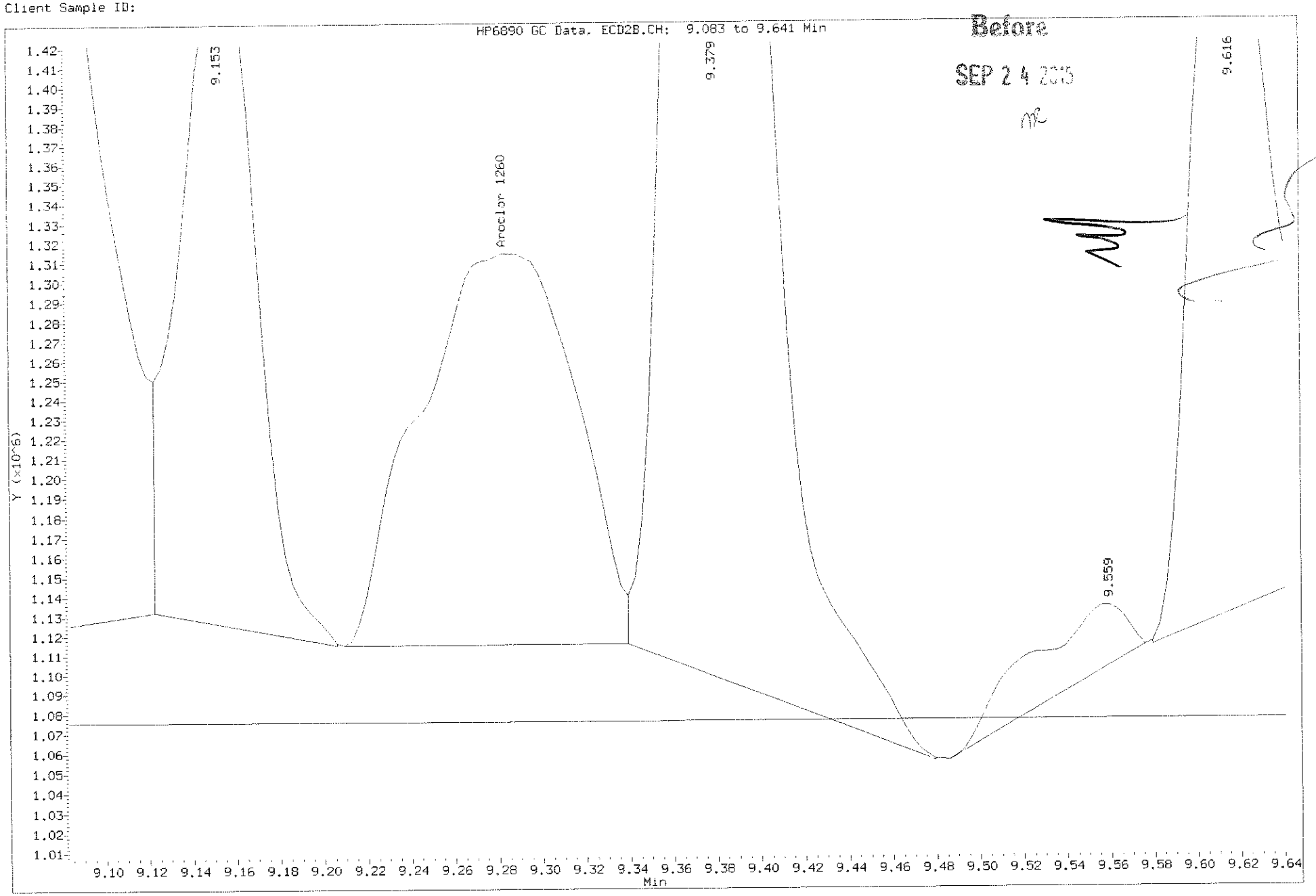
SEP 2 4 2015

Wrong Point/Peak not Found
Baseline/Shoulder Improved
Other

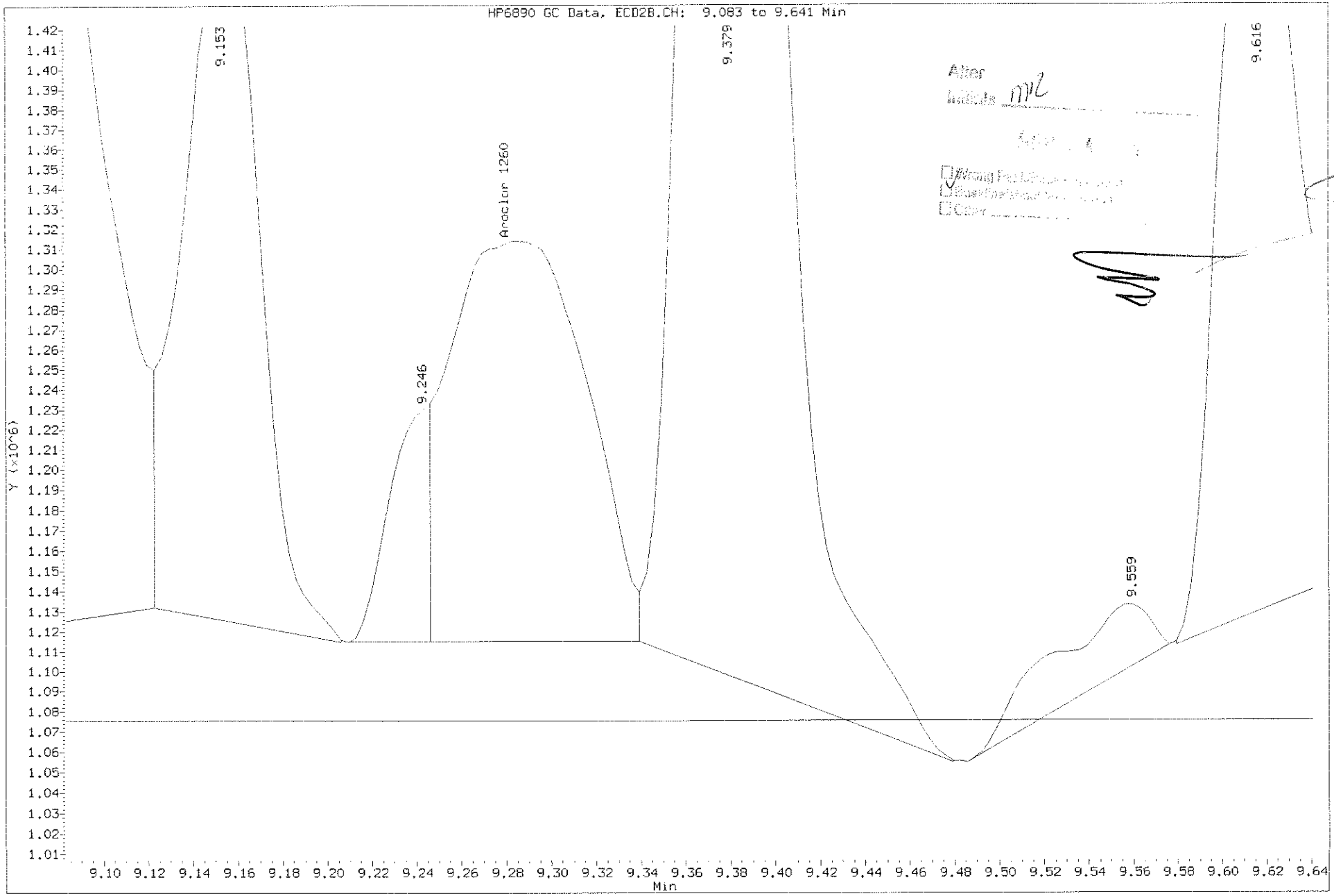
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



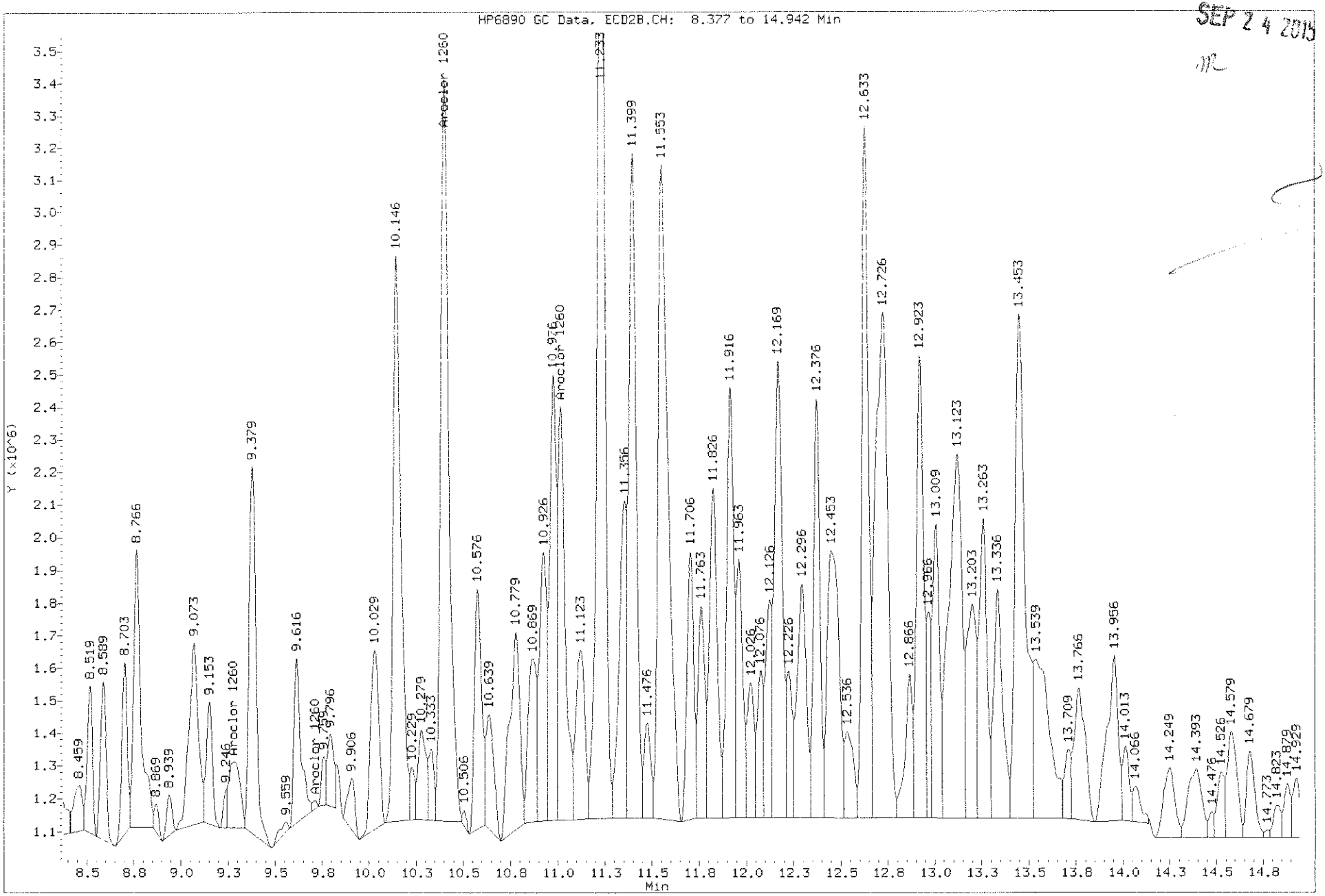
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



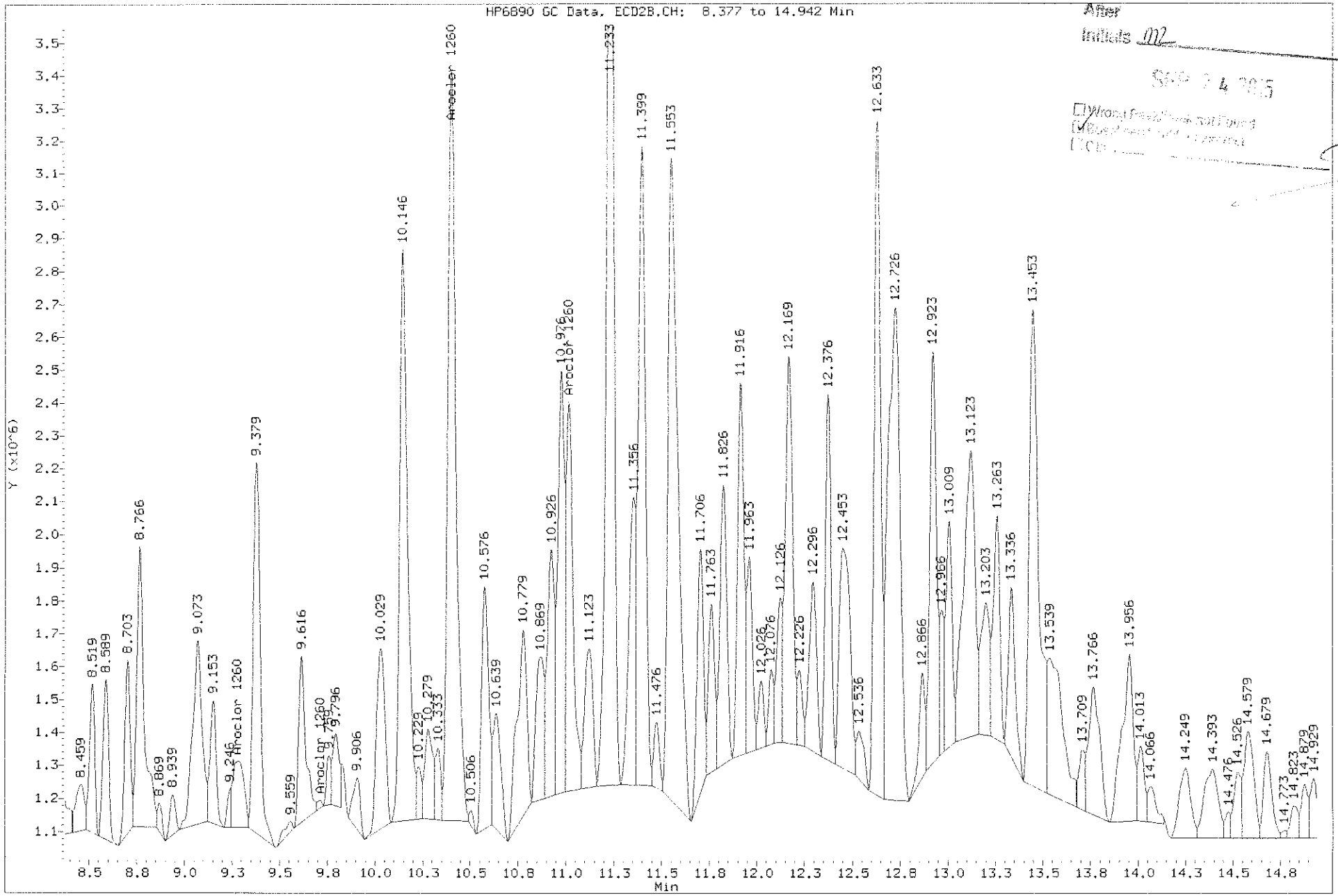
After
Initials MK

Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:

Before
SEP 24 2015

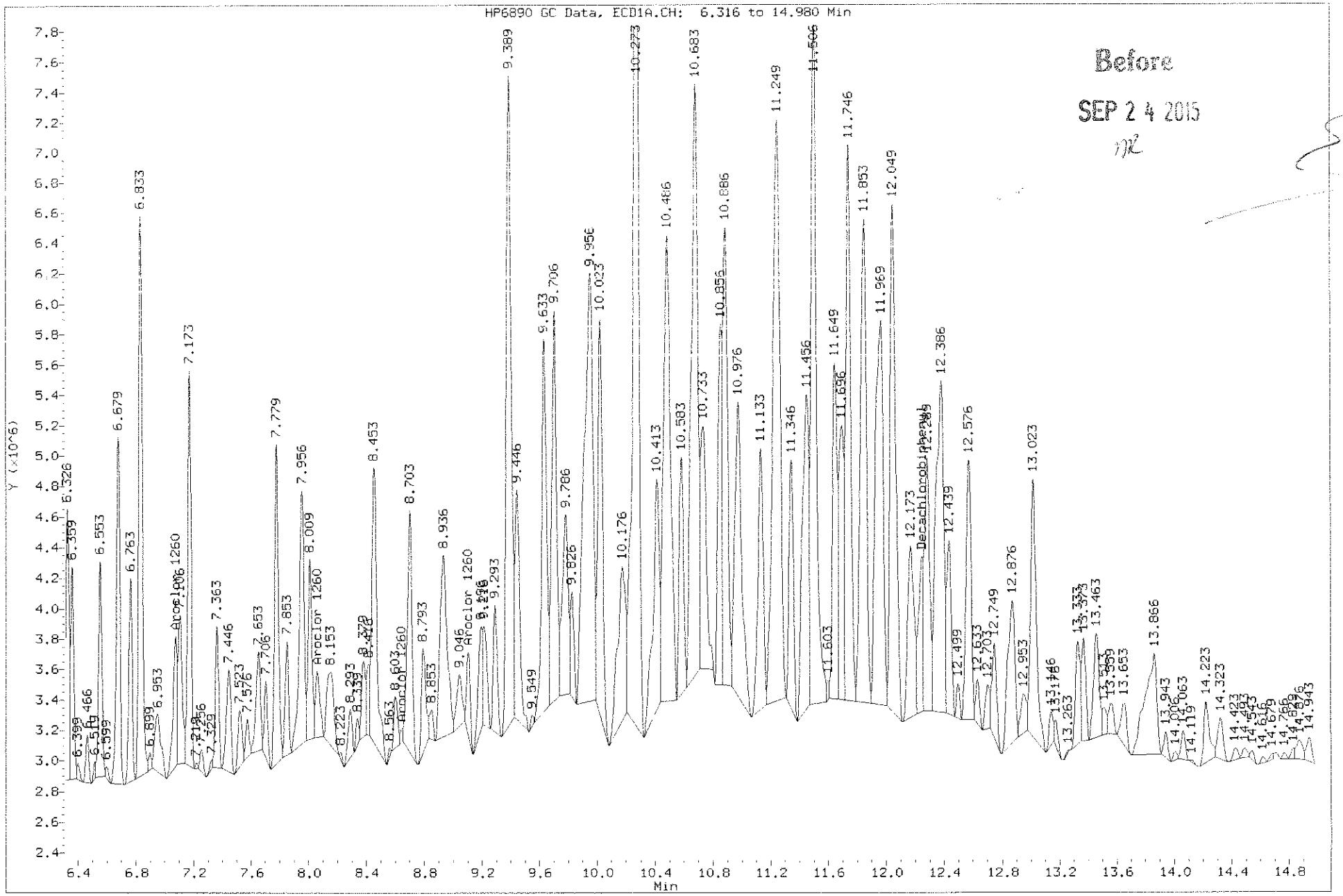


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



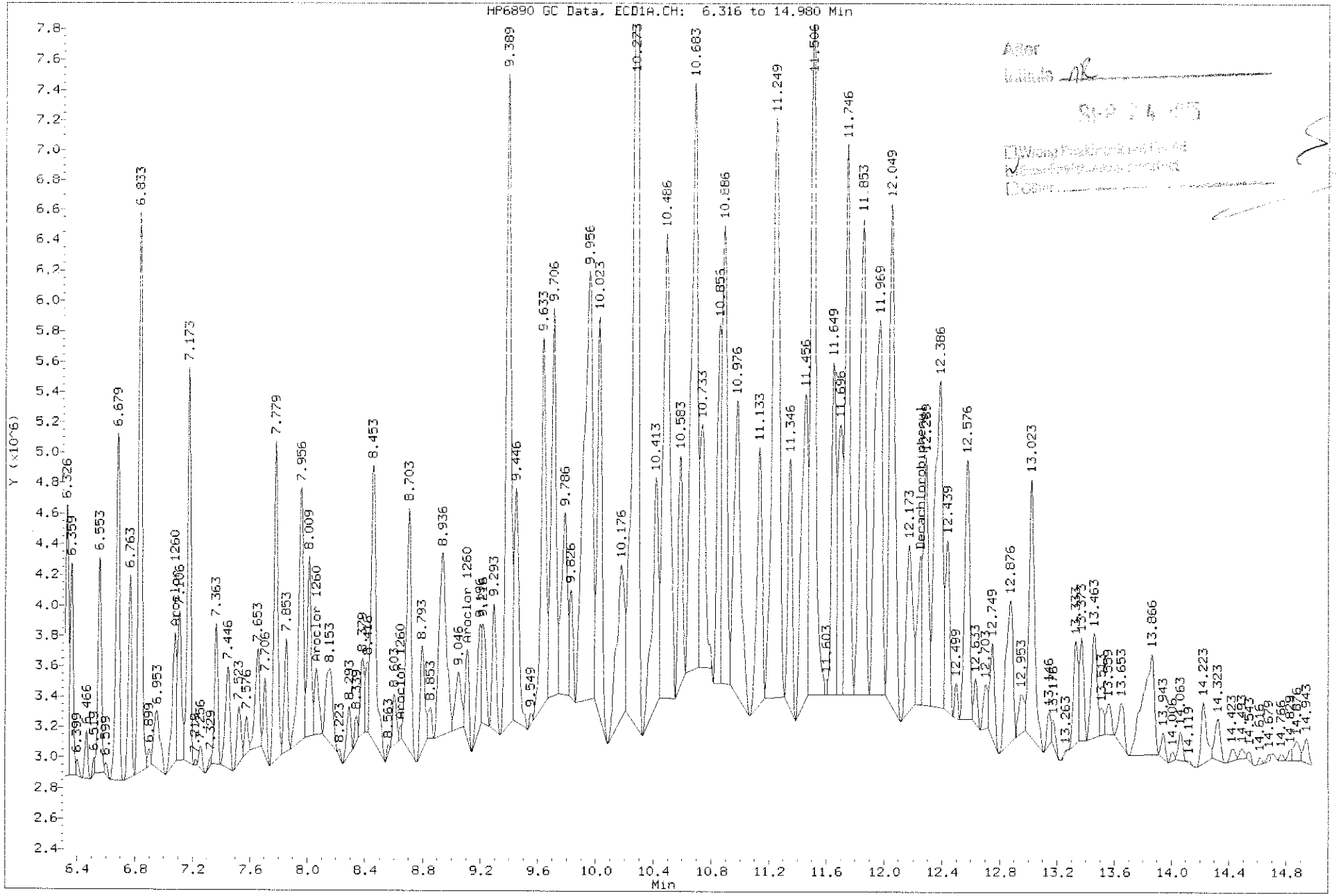
After
Initials MZ
SEP 24 2015
☐ Wrong Period/Week not Found
☑ Bus Period/Week not Found
☐ Ok

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Before
SEP 24 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F005.D
Lab ID: KWG1508974-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/23/2015 10:21
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCW OK

Primary Review: MMR 09/24/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F005.D
Lab ID: KWG1508974-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/23/2015 10:21
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/24/15

Secondary Review: [signature]

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D			**Vial:**	26
Acqu Date:	09/23/2015 10:21	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468016	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34	14872551	6761890	84.01	85.97			86 OK
				%Recovery =	84 OK	86 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 0.00	13.62	13655477	7100285	86.35	86.22			86 OK
				%Recovery =	86 OK	86 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	742.11	752.75	148	151	**148**
Aroclor 1016 {1}	4.24 0.00	4.62	2982889m	1490661	831.13	810.97	166	162	
Aroclor 1016 {2}	4.74 0.00	4.95 0.00	2272858m	1856016	758.61	762.36	152	152	
Aroclor 1016 {3}	4.93 0.00	5.59 +0.00	7139667m	2155652	721.83	718.73	144	144	
Aroclor 1016 {4}	5.21 +0.00	5.92	3423273m	1596980	690.00	727.55	138	146	
Aroclor 1016 {5}	5.50 0.00	6.11 0.00	3670124m	1604416	709.01	744.16	142	149	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D			**Vial:**	26
Acqu Date:	09/23/2015 10:21	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			14294512	6221875	1,612	1,678	322J	336J	**322J**
Aroclor 1260			0	0	870.07	925.74	174	185	**174**
Aroclor 1260 {1}	7.07 0.00	7.83 +0.00	6927021	1831566	703.21	830.31	141	166	
Aroclor 1260 {2}	8.09 +0.00	9.26 0.00	7420041	3691257	914.49	976.56	183	195	
Aroclor 1260 {3}	8.64 0.00	9.71 +0.00	7386921	3332318	897.45	923.38	179	185	
Aroclor 1260 {4}	9.10 0.00	10.39 +0.00	17176879	8345226	913.73	966.50	183	193	
Aroclor 1260 {5}	9.89 0.00	11.02 0.00	13072889	5205285	921.49	931.96	184	186	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
&: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D
Inj Date : 23-SEP-2015 10:21
Sample Info: KWG1508974-3 LCS
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.877	4.338	14872551	6761890	84.0	86.0		100.00(H)
Aroclor 1016	4.237	4.618	2982889	1490661	831	811	80.00- 120.00	100.00(MH)
	4.741	4.951	2272858	1856016	759	762	66.17- 99.26	76.20(MH)
	4.934	5.588	7139667	2155652	722	719	214.31- 321.46	239.35(MH)
	5.207	5.918	3423273	1596980	690	728	101.98- 152.97	114.76(MH)
	5.497	6.114	3670124	1604416	709	744	107.72- 161.59	123.04(MH)
			Average of Peak Amounts =		742	753		
Aroclor 1260	7.071	7.831	6927021	1831566	703	830	80.00- 120.00	100.00(H)
	8.091	9.264	7420041	3691257	914	977	70.24- 105.36	107.12(H)
	8.641	9.714	7386921	3332318	897	923	71.65- 107.48	106.64(H)
	9.104	10.391	17176879	8345226	914	967	165.26- 247.89	247.97(H)
	9.887	11.024	13072889	5205285	921	932	130.88- 196.31	188.72(H)
			Average of Peak Amounts =		870	926		
Decachlorobiphenyl	12.257	13.618	13655477	7100285	86.4	86.2		100.00
Aroclors, Total	0.000	0.000	14294512	6221875	1610	1680		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

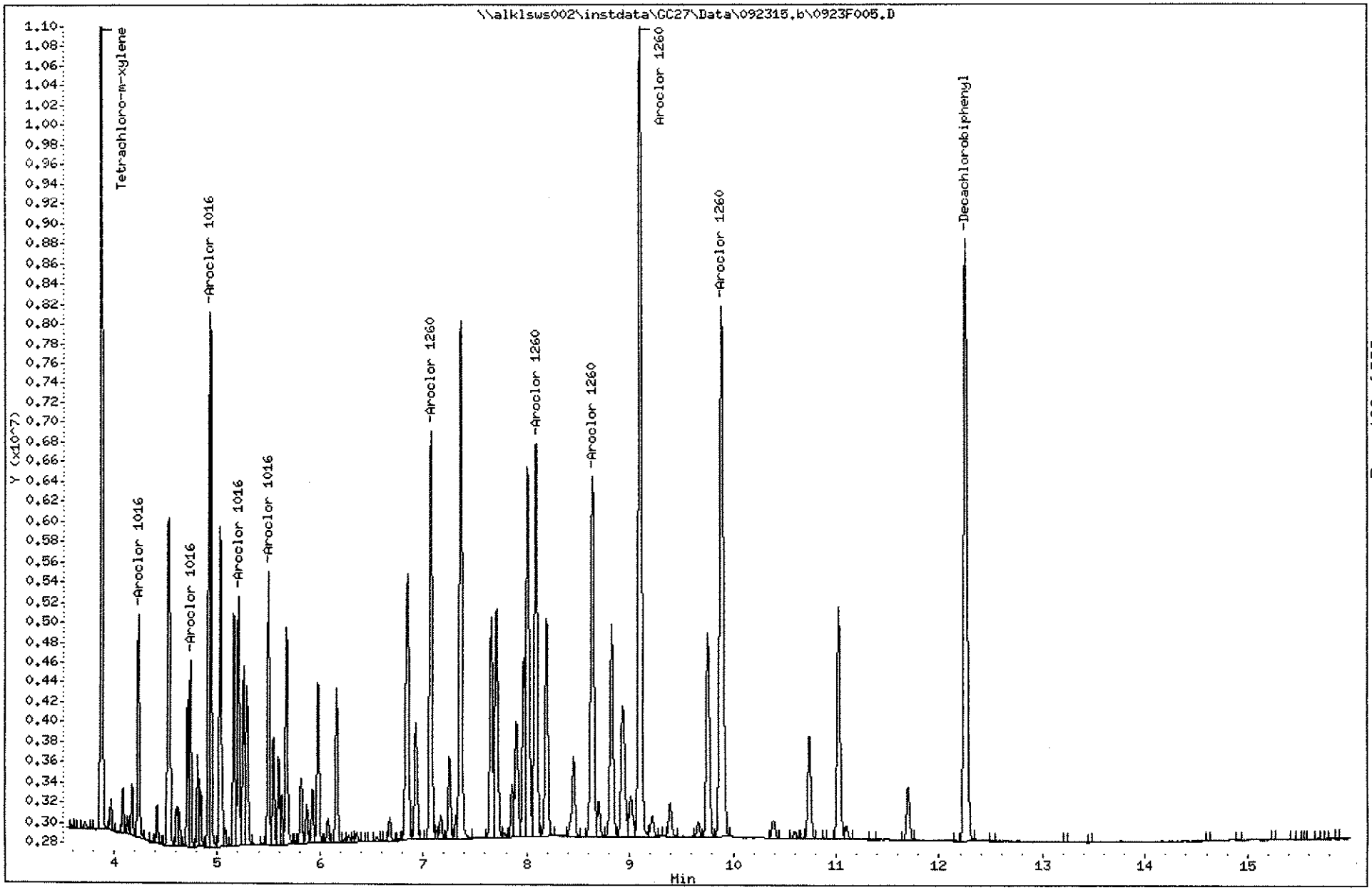
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Date : 23-SEP-2015 10:21
Client ID:
Sample Info: KWG1508974-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



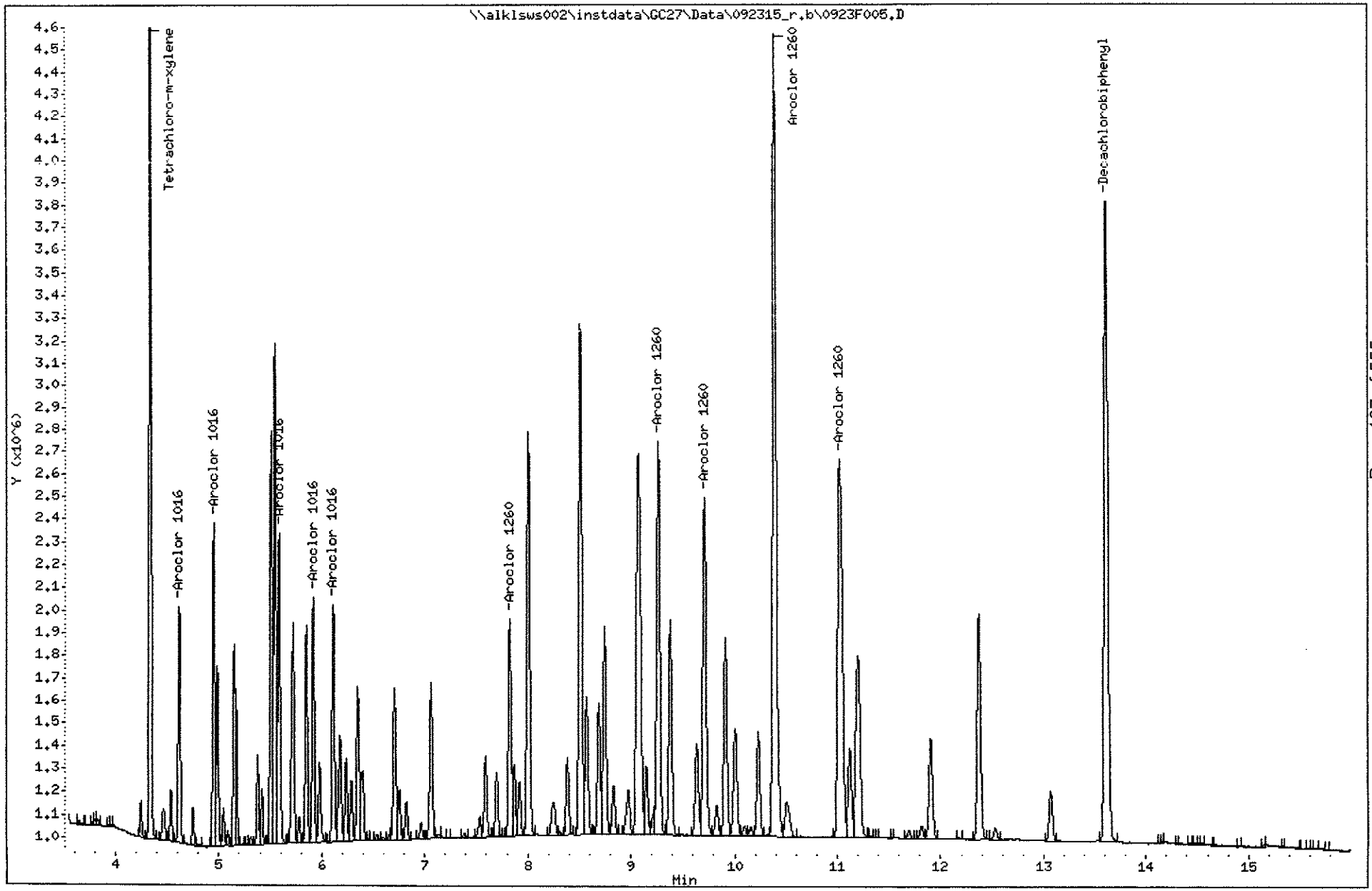
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D
Date : 23-SEP-2015 10:21
Client ID:
Sample Info: KWG1508974-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

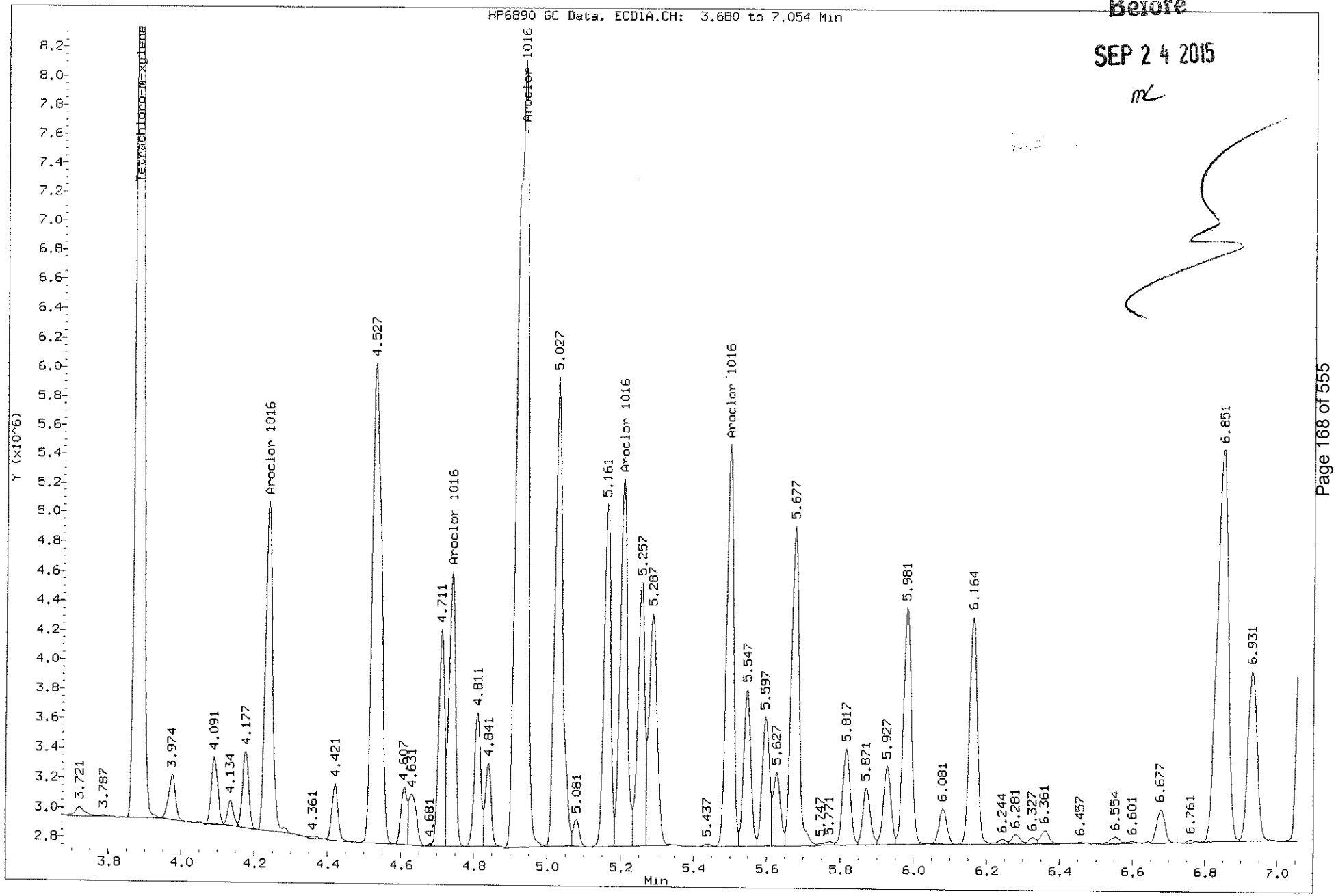
Column diameter: 0.32



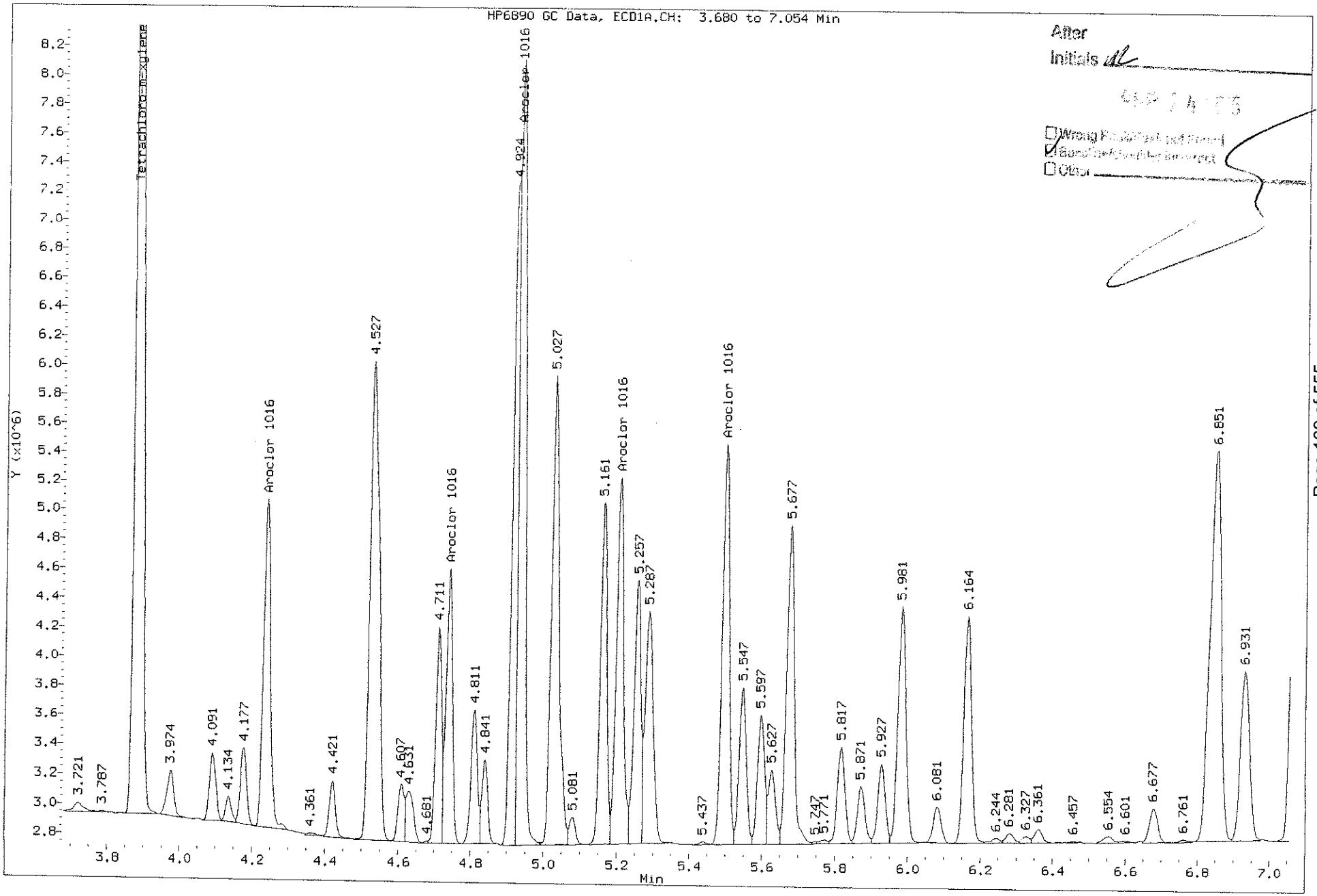
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Injection Date: 23-SEP-2015 10:21
Instrument: GC27.i
Client Sample ID:

Before

SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Injection Date: 23-SEP-2015 10:21
Instrument: GC27.i
Client Sample ID:



Injection Log

Directory: J:\GC27\Data\092315

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	0923F001.D	1.	PRIMER		09/23/22015 8:46:5
2	100	0923F002.D	1.	PRIMER		09/23/22015 9:10:2
3	95	0923F003.D	1.	1660 @ 500ppb PCB6-74E OL		09/23/22015 9:34:0
4	99	0923F004.D	1.	IB		09/23/22015 9:57:3
5	26	0923F005.D	1.	KWG1508974-3 LCS		09/23/22015 10:21:1
6	27	0923F006.D	1.	KWG1508974-4 MB		09/23/22015 10:44:4
7	28	0923F007.D	1.	K1509213-003 100X		09/23/22015 11:08:2
8	29	0923F008.D	1.	K1509213-003 MS 100X		09/23/22015 11:32:0
9	30	0923F009.D	1.	K1509213-003 DMS 100X		09/23/22015 11:55:5
10	31	0923F010.D	1.	K1510240-001 50X		09/23/22015 12:19:3
11	95	0923F011.D	1.	1660 @ 500ppb PCB6-74E OL		09/23/22015 12:43:2
12	99	0923F012.D	1.	IB		09/23/22015 1:07:1
13	46	0923F013.D	1.	K1508844-047 5X		09/23/22015 1:30:4
14	47	0923F014.D	1.	K1508844-049 5X	Run # 463102	09/23/22015 1:54:1
15	48	0923F015.D	1.	K1508844-055 5X	Cal # 13624	09/23/22015 2:17:5
16	95	0923F016.D	1.	1660 @ 500ppb PCB6-74E OL		09/23/22015 2:41:2
17	99	0923F017.D	1.	IB	KWG 1509187	09/23/22015 3:04:5
18	1	0923F018.D	1.	KWG1508447-3 LCS		09/23/22015 3:28:3
19	2	0923F019.D	1.	KWG1508447-4 MB		09/23/22015 3:52:2
20	3	0923F020.D	1.	K1509611-001		09/23/22015 4:16:0
21	4	0923F021.D	1.	K1509611-001 MS		09/23/22015 4:39:3
22	5	0923F022.D	1.	K1509611-001 DMS		09/23/22015 5:03:0
23	6	0923F023.D	1.	K1509611-003		09/23/22015 5:26:3
24	7	0923F024.D	1.	K1509611-005 — PCT		09/23/22015 5:50:0
25	8	0923F025.D	1.	K1509611-006 — NR Carryover		09/23/22015 6:13:2
26	9	0923F026.D	1.	K1509611-007		09/23/22015 6:36:5
27	10	0923F027.D	1.	K1509611-009		09/23/22015 7:00:3
28	95	0923F028.D	1.	1660 @ 500ppb PCB6-74E OL		09/23/22015 7:24:1
29	99	0923F029.D	1.	IB		09/23/22015 7:47:5
30	11	0923F030.D	1.	K1509611-010		09/23/22015 8:11:3
31	12	0923F031.D	1.	K1509611-011		09/23/22015 8:35:1
32	13	0923F032.D	1.	K1509611-012		09/23/22015 8:59:0
33	14	0923F033.D	1.	K1509611-013		09/23/22015 9:22:2
34	15	0923F034.D	1.	K1509611-014		09/23/22015 9:45:5
35	16	0923F035.D	1.	K1509611-015		09/23/22015 10:09:2
36	17	0923F036.D	1.	K1509611-016		09/23/22015 10:32:5
37	18	0923F037.D	1.	K1509611-017 — PCT		09/23/22015 10:56:2
38	19	0923F038.D	1.	K1509611-018		09/23/22015 11:20:0
39	20	0923F039.D	1.	K1509611-019		09/23/22015 11:43:3
40	94	0923F040.D	1.	1660 @ 500ppb PCB6-74E OL		09/24/22015 12:07:0
41	98	0923F041.D	1.	IB		09/24/22015 12:30:4
42	21	0923F042.D	1.	K1509611-002 100X — PCT		09/24/22015 12:54:1
43	22	0923F043.D	1.	K1509611-004 100X — PCT		09/24/22015 1:17:4
44	23	0923F044.D	1.	K1509611-008 10X — NR Carryover		09/24/22015 1:41:2
45	94	0923F045.D	1.	1660 @ 500ppb PCB6-74E OL		09/24/22015 2:04:5
46	98	0923F046.D	1.	IB		09/24/22015 2:28:2
47	36	0923F047.D	1.	KWG1508614-1 LCS		09/24/22015 2:51:5
48	37	0923F049.D	1.	KWG1508614-2 DLCS		09/24/22015 3:15:2
49	38	0923F051.D	1.	KWG1508614-3 MB		09/24/22015 3:38:5
50	39	0923F053.D	1.	K1508827-008		09/24/22015 4:02:3
51	40	0923F055.D	1.	K1508936-001		09/24/22015 4:26:0
52	41	0923F057.D	1.	K1509248-001		09/24/22015 4:49:4
53	94	0923F059.D	1.	1660 @ 500ppb PCB6-74E OL		09/24/22015 5:13:2
54	98	0923F060.D	1.	IB		09/24/22015 5:36:5
55	51	0923F061.D	1.	KWG1508804-3 LCS		09/24/22015 6:00:3

Injection Log

Directory: J:\GC27\Data\092315

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	52	0923F062.D	1.	KWG1508804-4 MB		09/24/22015 6:24:1
57	53	0923F063.D	1.	K1509548-001		09/24/22015 6:47:4
58	54	0923F064.D	1.	K1509548-005		09/24/22015 7:11:2
59	55	0923F065.D	1.	K1509548-009		09/24/22015 7:35:0
60	56	0923F066.D	1.	K1509548-009 MS		09/24/22015 7:58:4
61	57	0923F067.D	1.	K1509548-009 DMS		09/24/22015 8:22:1
62	58	0923F068.D	1.	K1509548-013		09/24/22015 8:45:5
63	59	0923F069.D	1.	K1509548-014		09/24/22015 9:09:4
64	60	0923F070.D	1.	K1509548-015		09/24/22015 9:33:2
65	61	0923F071.D	1.	K1509548-016		09/24/22015 9:57:0
66	62	0923F072.D	1.	K1509548-017		09/24/22015 10:20:4
67	94	0923F073.D	1.	1660 @ 500ppb PCB6-74E		09/24/22015 10:44:2
68	97	0923F074.D	1.	IB		09/24/22015 11:08:1
69	63	0923F075.D	1.	K1509548-019		09/24/22015 11:31:5
70	94	0923F076.D	1.	1660 @ 500ppb PCB6-74E		09/24/22015 11:55:3
71	97	0923F077.D	1.	IB		09/24/22015 12:19:2

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F003.D
Lab ID: KWG1509187-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:34
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: [signature] 09/24/15

Secondary Review: [signature]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F003.D
Lab ID: KWG1509187-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:34
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MMR 09/24/15

Secondary Review: [signature]

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D			**Vial:**	95
Acqu Date:	09/23/2015 09:34	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	8721039	3778196	49.27	48.04			NA
				%Recovery =	NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.62	8113502	4124149	51.31	50.08			NA
				%Recovery =	NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	434.43	424.30			
Aroclor 1016 {1}	4.24	4.62	1650505m	797378	459.88	433.80			
Aroclor 1016 {2}	4.74	4.95	1322500m	1056854	441.41	434.10			
Aroclor 1016 {3}	4.94	5.59	4265633m	1234243	431.26	411.52			
Aroclor 1016 {4}	5.21	5.92	2072072m	926440	417.65	422.07			
Aroclor 1016 {5}	5.50	6.12	2184129m	905515	421.94	420.00			
Aroclor 1260			0	0	479.26	486.99			
Aroclor 1260 {1}	7.07	7.83	4327021	1025564	439.26	464.92			
Aroclor 1260 {2}	8.09	9.27	3897069	1853503	480.30	490.37			
Aroclor 1260 {3}	8.64	9.71	3974928	1760703	482.92	487.89			
Aroclor 1260 {4}	9.11	10.39	9215481	4252420	490.22	492.49			
Aroclor 1260 {5}	9.89	11.03	7144675	2788673	503.62	499.29			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D
Inj Date : 23-SEP-2015 09:34
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	8721039	3778196	49.3	48.0		100.00
Aroclor 1016	4.238	4.618	1650505	797378	460	434	80.00- 120.00	100.00(M)
	4.742	4.952	1322500	1056854	441	434	66.17- 99.26	80.13(M)
	4.935	5.585	4265633	1234243	431	412	214.31- 321.46	258.44(M)
	5.205	5.918	2072072	926440	418	422	101.98- 152.97	125.54(M)
	5.498	6.115	2184129	905515	422	420	107.72- 161.59	132.33(M)
			Average of Peak Amounts =		434	424		
Aroclor 1260	7.072	7.828	4327021	1025564	439	465	80.00- 120.00	100.00
	8.088	9.265	3897069	1853503	480	490	70.24- 105.36	90.06
	8.642	9.712	3974928	1760703	483	488	71.65- 107.48	91.86
	9.105	10.388	9215481	4252420	490	492	165.26- 247.89	212.98
	9.888	11.025	7144675	2788673	504	499	130.88- 196.31	165.12
			Average of Peak Amounts =		479	487		
Decachlorobiphenyl	12.258	13.618	8113502	4124149	51.3	50.1		100.00

QC Flag Legend

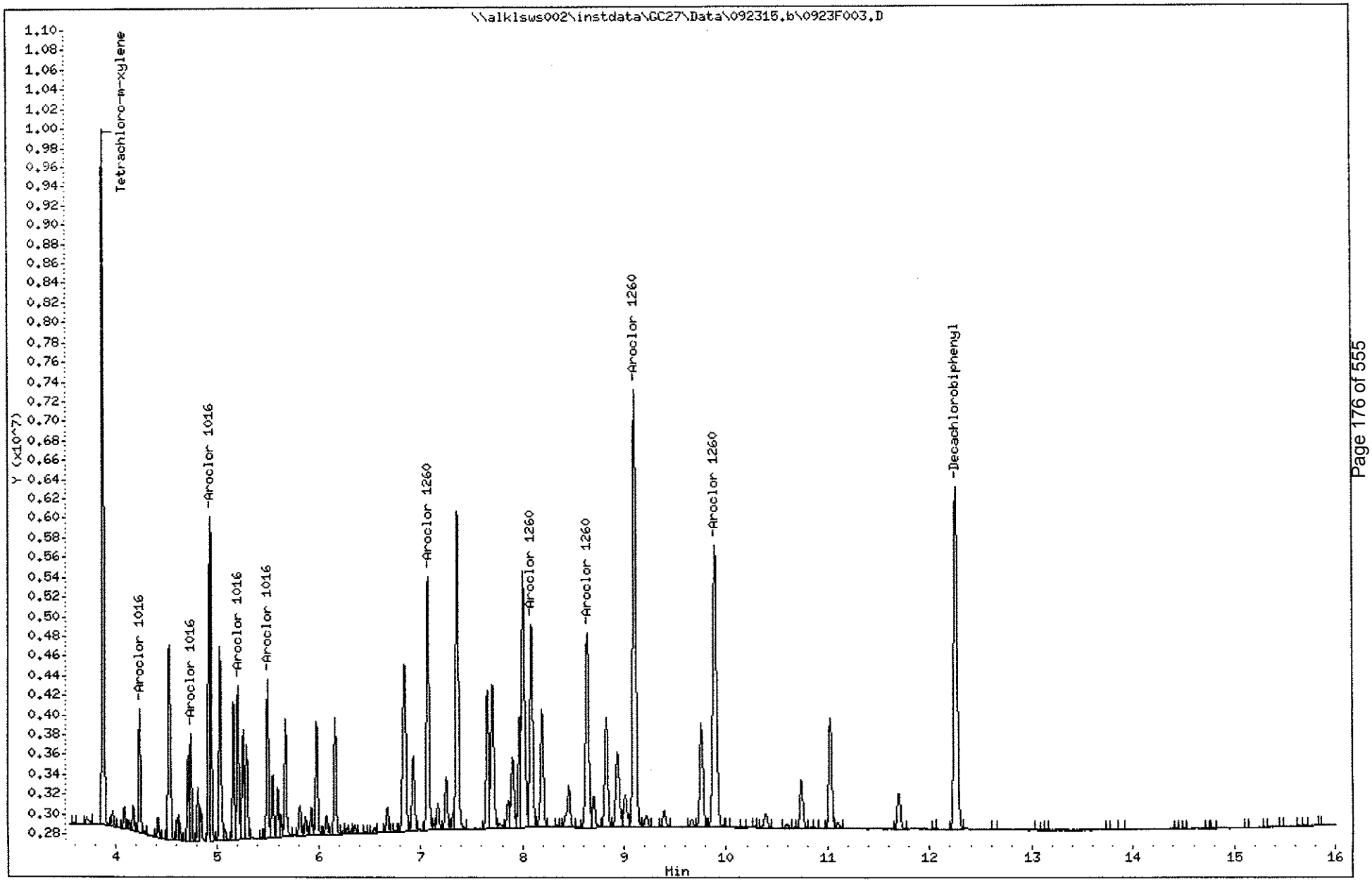
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Date : 23-SEP-2015 09:34
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

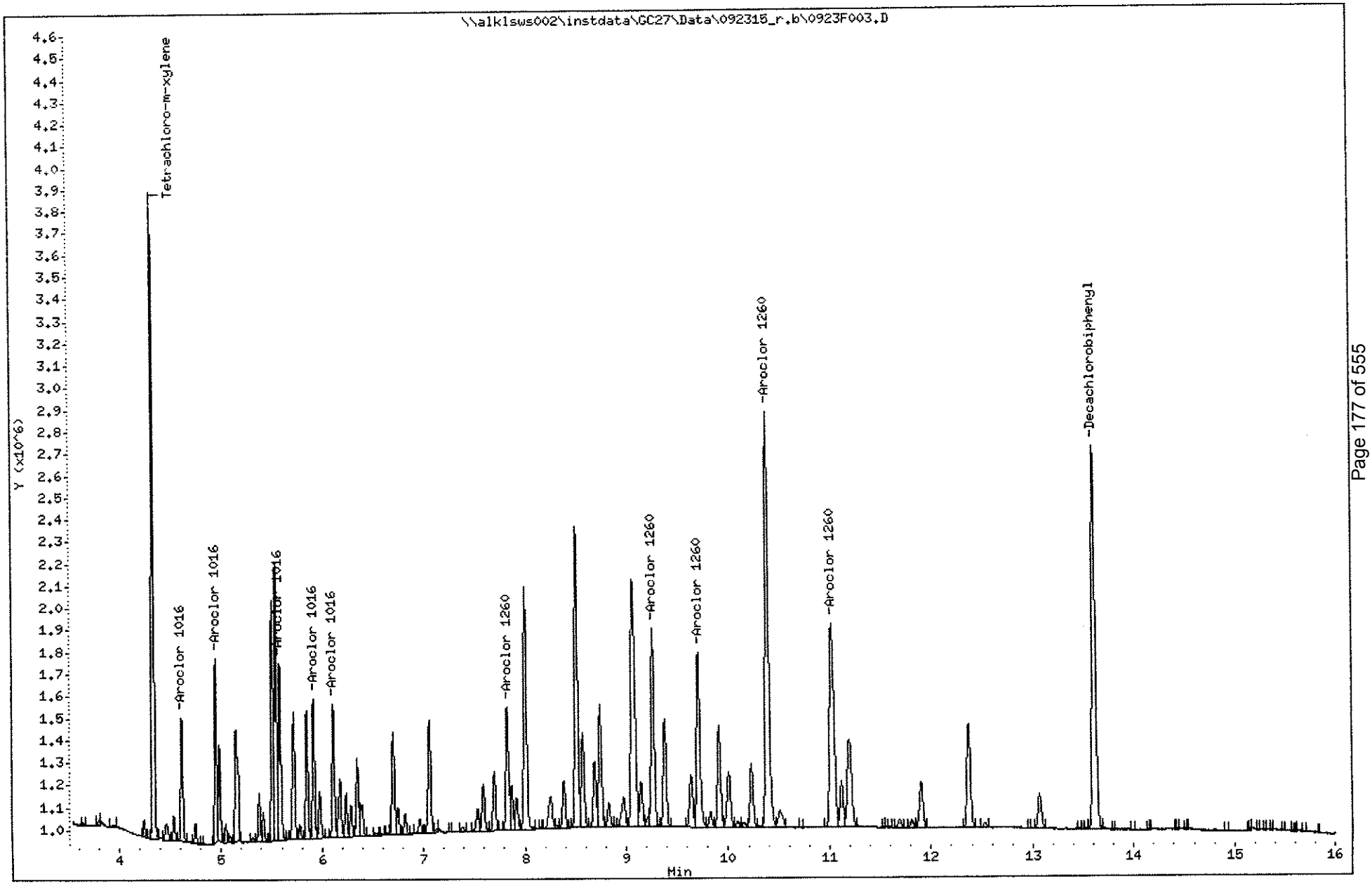


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D
Date : 23-SEP-2015 09:34
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

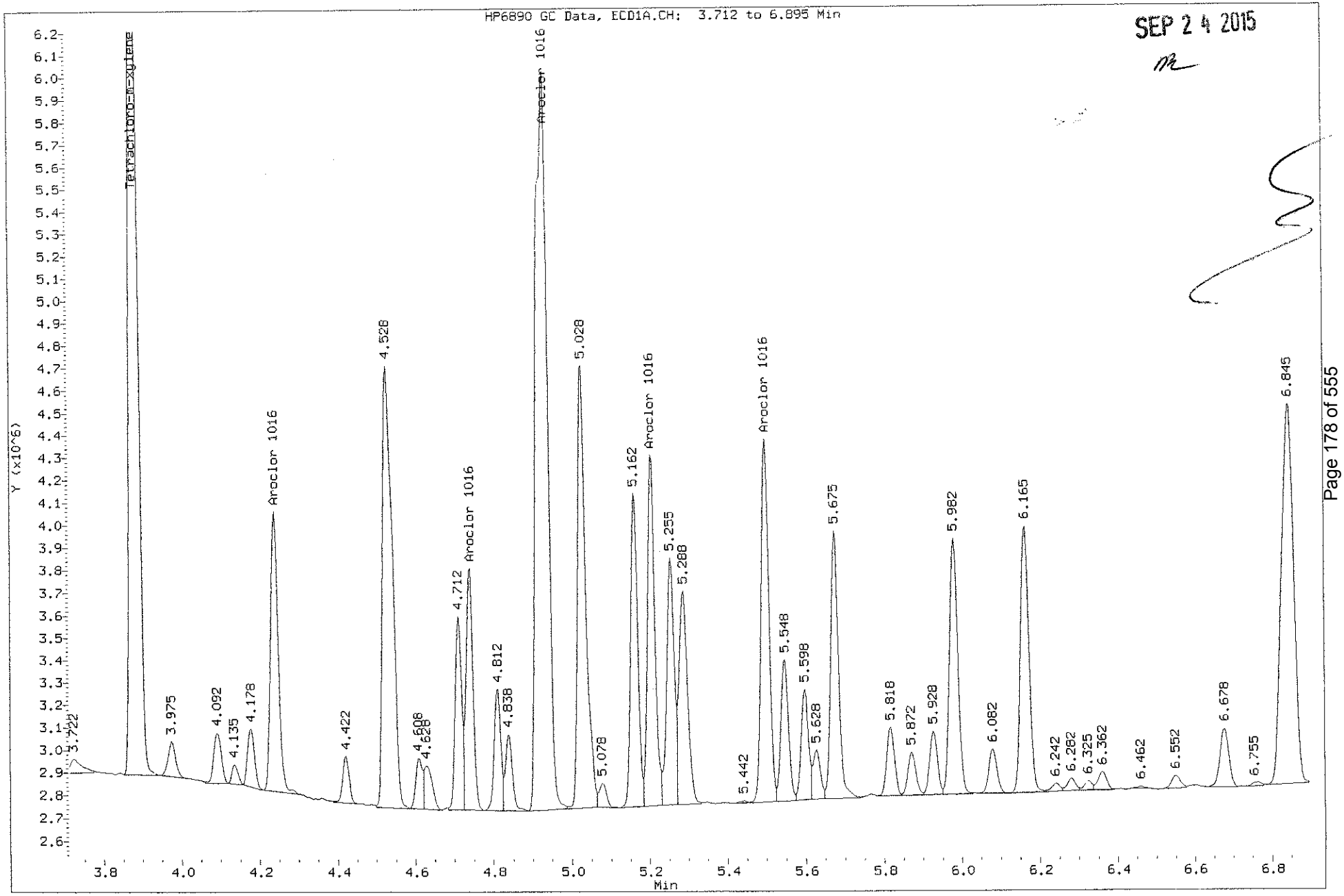
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Injection Date: 23-SEP-2015 09:34
Instrument: GC27.i
Client Sample ID:

Before

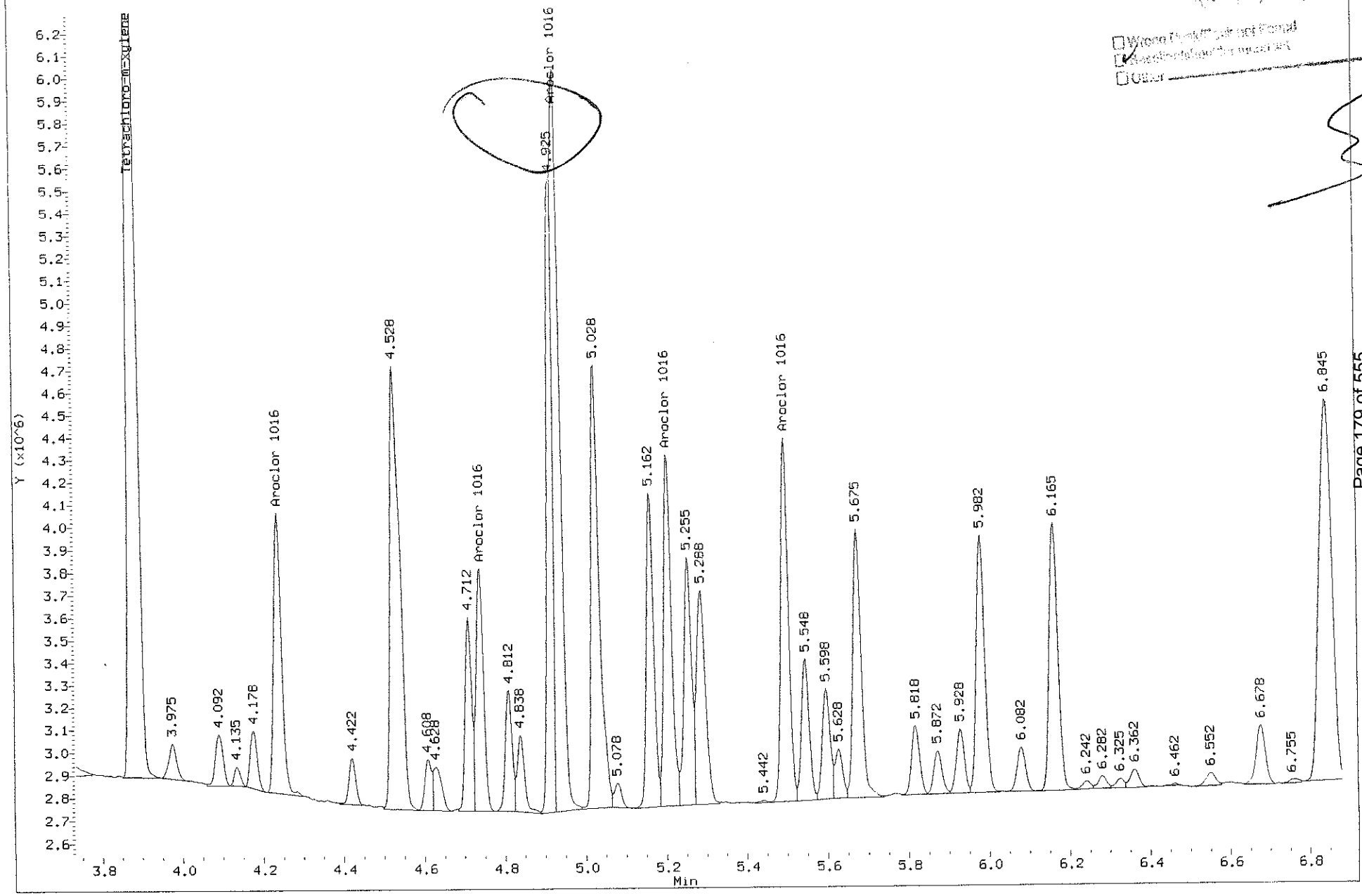
SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Injection Date: 23-SEP-2015 09:34
Instrument: GC27.i
Client Sample ID:

After
Initials

HP6890 GC Data, ECD1A.CH: 3.735 to 6.880 Min



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F004.D
Lab ID: KWG1509187-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:57
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: mc 09/24/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F004.D
Lab ID: KWG1509187-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:57
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.24	13.60	24657	4112	0.1560	0.0500			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24	13.60	24657	4112	0.1560	0.0500			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D
Inj Date : 23-SEP-2015 09:57
Sample Info: IB
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.239	13.599	24657	4112	0.156	0.0499		100.00

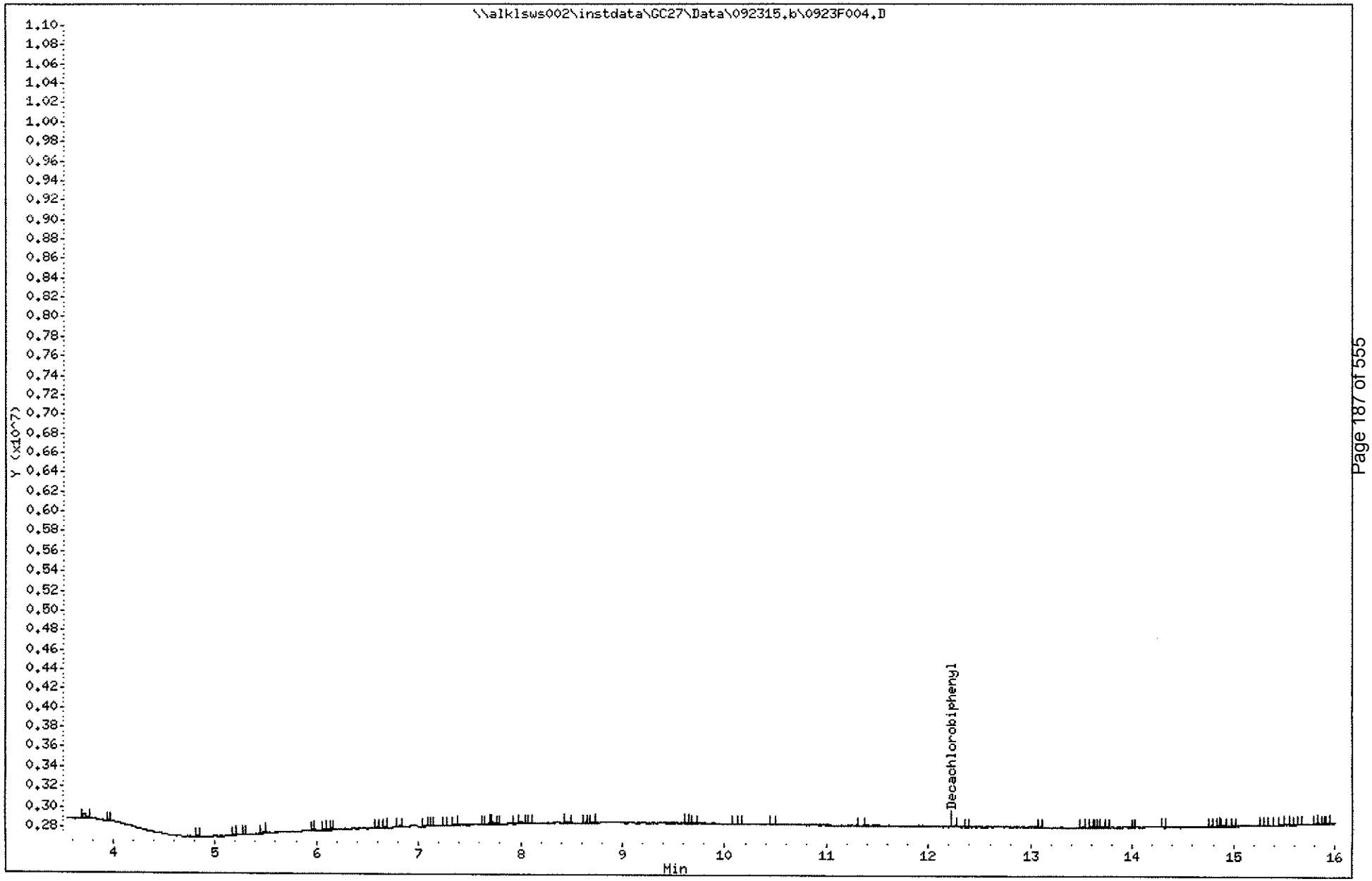
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Date : 23-SEP-2015 09:57
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

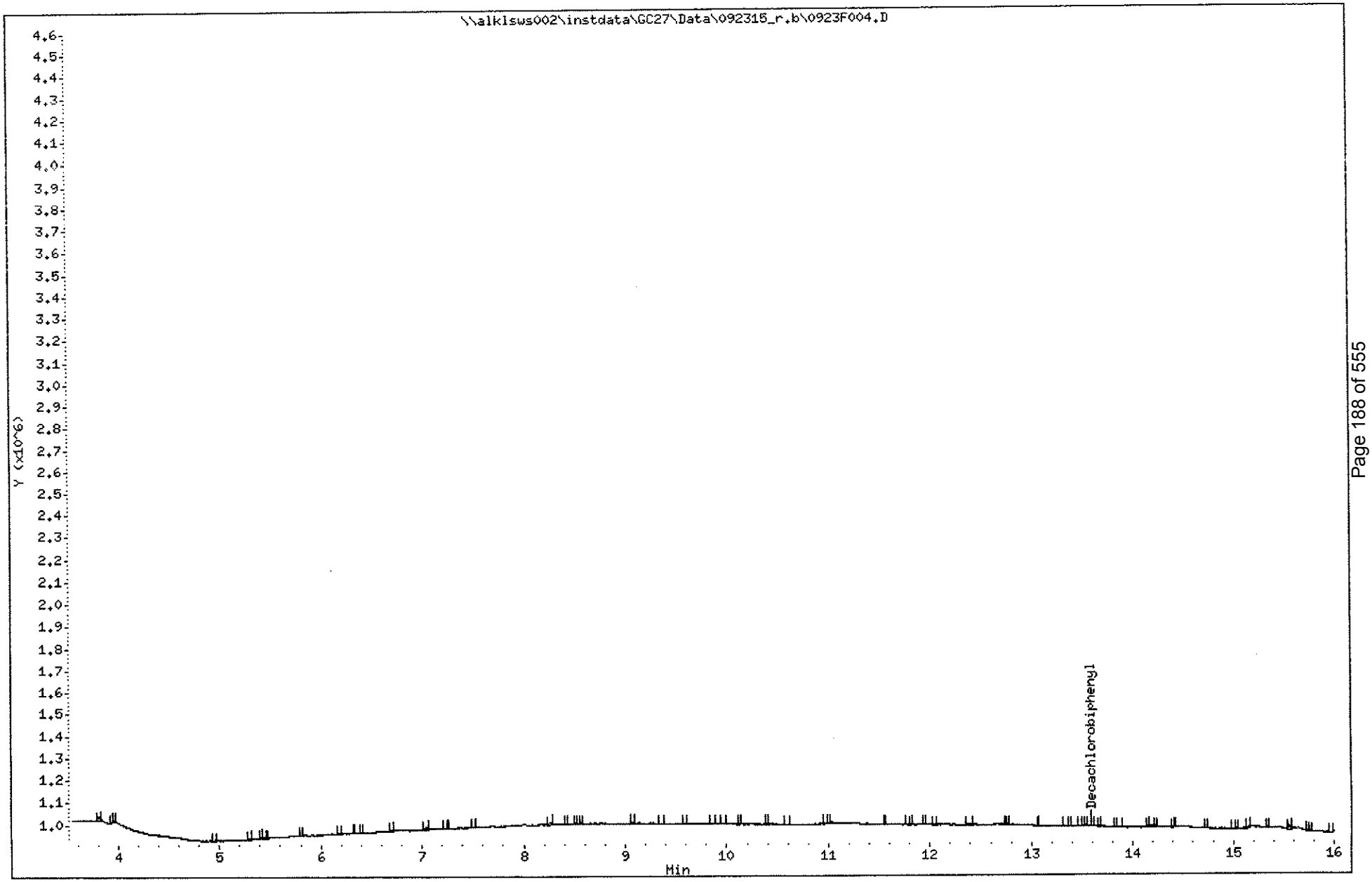


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D
Date : 23-SEP-2015 09:57
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F011.D
Lab ID: KWG1509187-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 12:43
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OL

Primary Review: MR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F011.D
Lab ID: KWG1509187-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 12:43
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mm 09/24/15

Secondary Review:

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F011.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D			**Vial:**	95
Acqu Date:	09/23/2015 12:43	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	8680870	3863079	49.04	49.11			NA
				%Recovery =	NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.62	7954472	4095719	50.30	49.74			NA
				%Recovery =	NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	425.93	435.14			
Aroclor 1016 {1}	4.24	4.62	1639643m	820507	456.86	446.39			
Aroclor 1016 {2}	4.74	4.96	1295943m	1091758	432.55	448.44			
Aroclor 1016 {3}	4.94	5.59	4076825m	1247797	412.17	416.04			
Aroclor 1016 {4}	5.21	5.92	2053074m	949712	413.82	432.67			
Aroclor 1016 {5}	5.50	6.12	2144424m	931709	414.27	432.15			
Aroclor 1260			0	0	467.33	488.60			
Aroclor 1260 {1}	7.08	7.83	4226081	1017836	429.02	461.42			
Aroclor 1260 {2}	8.10	9.27	3799879	1860950	468.32	492.34			
Aroclor 1260 {3}	8.65	9.72	3851899	1771318	467.98	490.83			
Aroclor 1260 {4}	9.11	10.40	8971669	4259897	477.25	493.36			
Aroclor 1260 {5}	9.90	11.03	7009628	2820969	494.10	505.07			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D
Inj Date : 23-SEP-2015 12:43
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 24-SEP-2015 07:33
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	8680870	3863079	49.0	49.1		100.00
Aroclor 1016	4.238	4.622	1639643	820507	457	446	80.00- 120.00	100.00(M)
	4.742	4.955	1295943	1091758	433	448	66.17- 99.26	79.04(M)
	4.938	5.589	4076825	1247797	412	416	214.31- 321.46	248.64(M)
	5.208	5.922	2053074	949712	414	433	101.98- 152.97	125.21(M)
	5.502	6.119	2144424	931709	414	432	107.72- 161.59	130.79(M)
		Average of Peak Amounts =			426	435		
Aroclor 1260	7.075	7.832	4226081	1017836	429	461	80.00- 120.00	100.00
	8.095	9.269	3799879	1860950	468	492	70.24- 105.36	89.91
	8.645	9.719	3851899	1771318	468	491	71.65- 107.48	91.15
	9.108	10.395	8971669	4259897	477	493	165.26- 247.89	212.29
	9.895	11.029	7009628	2820969	494	505	130.88- 196.31	165.87
		Average of Peak Amounts =			467	488		
Decachlorobiphenyl	12.262	13.622	7954472	4095719	50.3	49.7		100.00

QC Flag Legend

M - Compound response manually integrated.

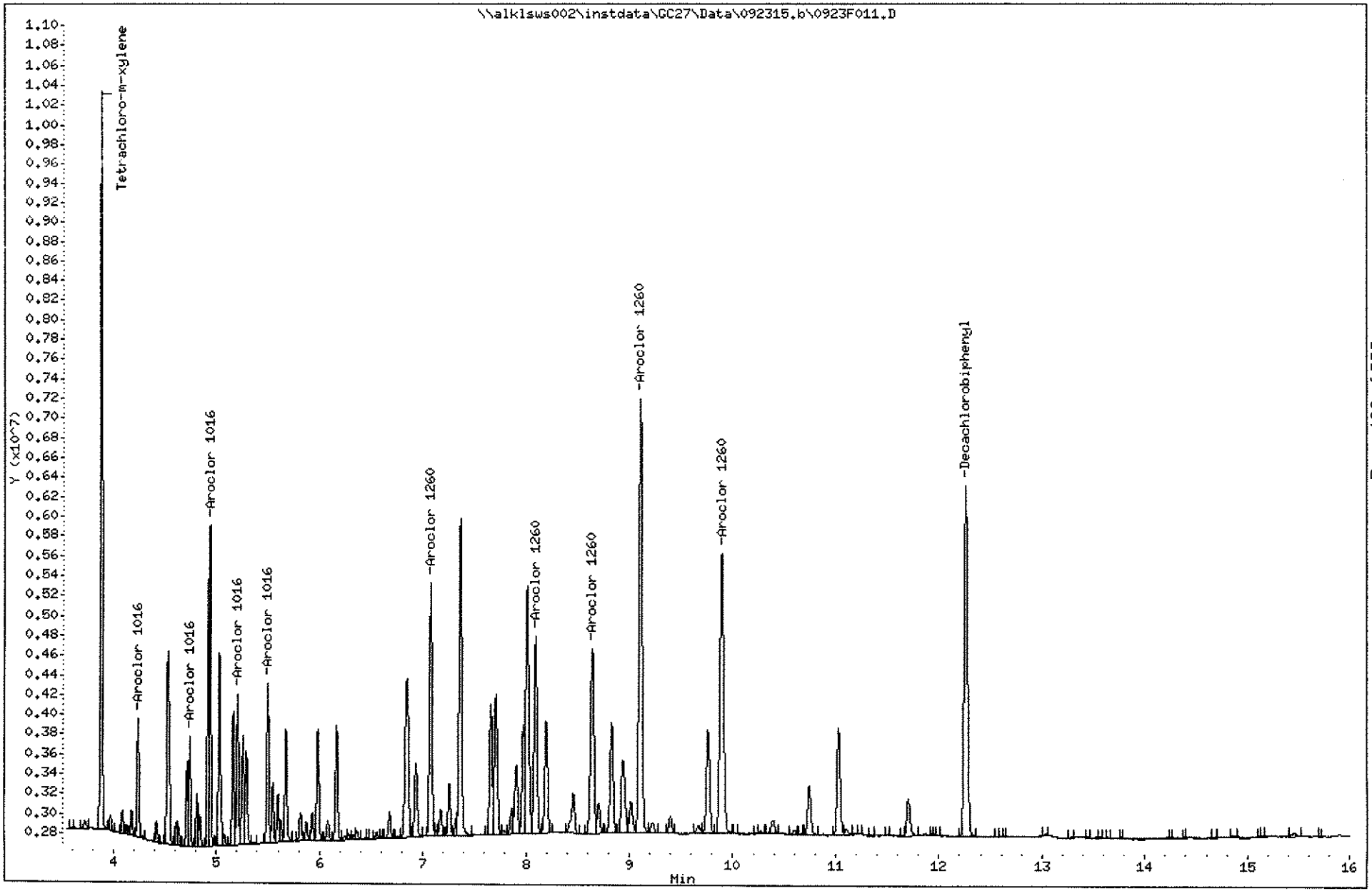
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Date : 23-SEP-2015 12:43
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

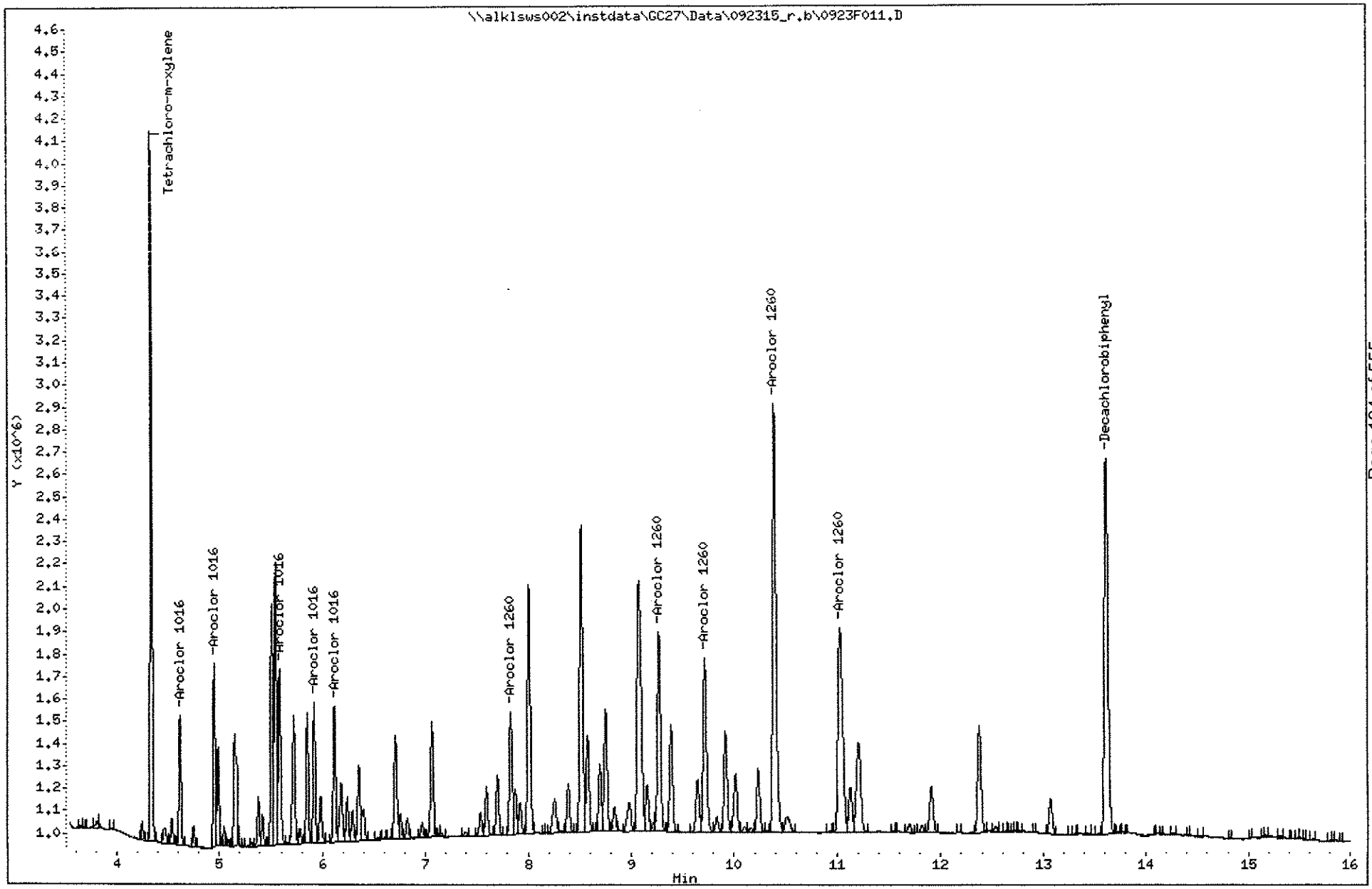


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D
Date : 23-SEP-2015 12:43
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

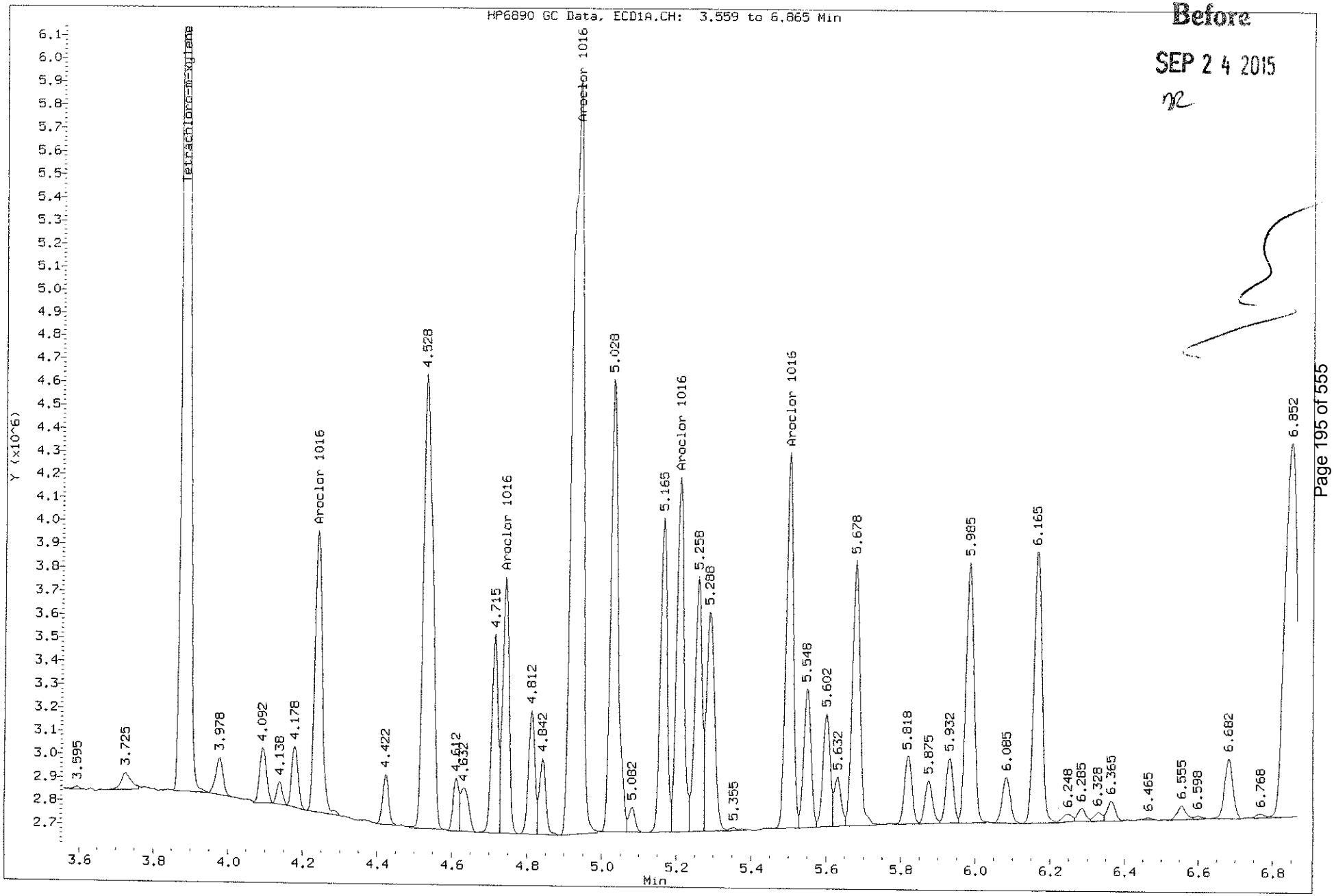
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



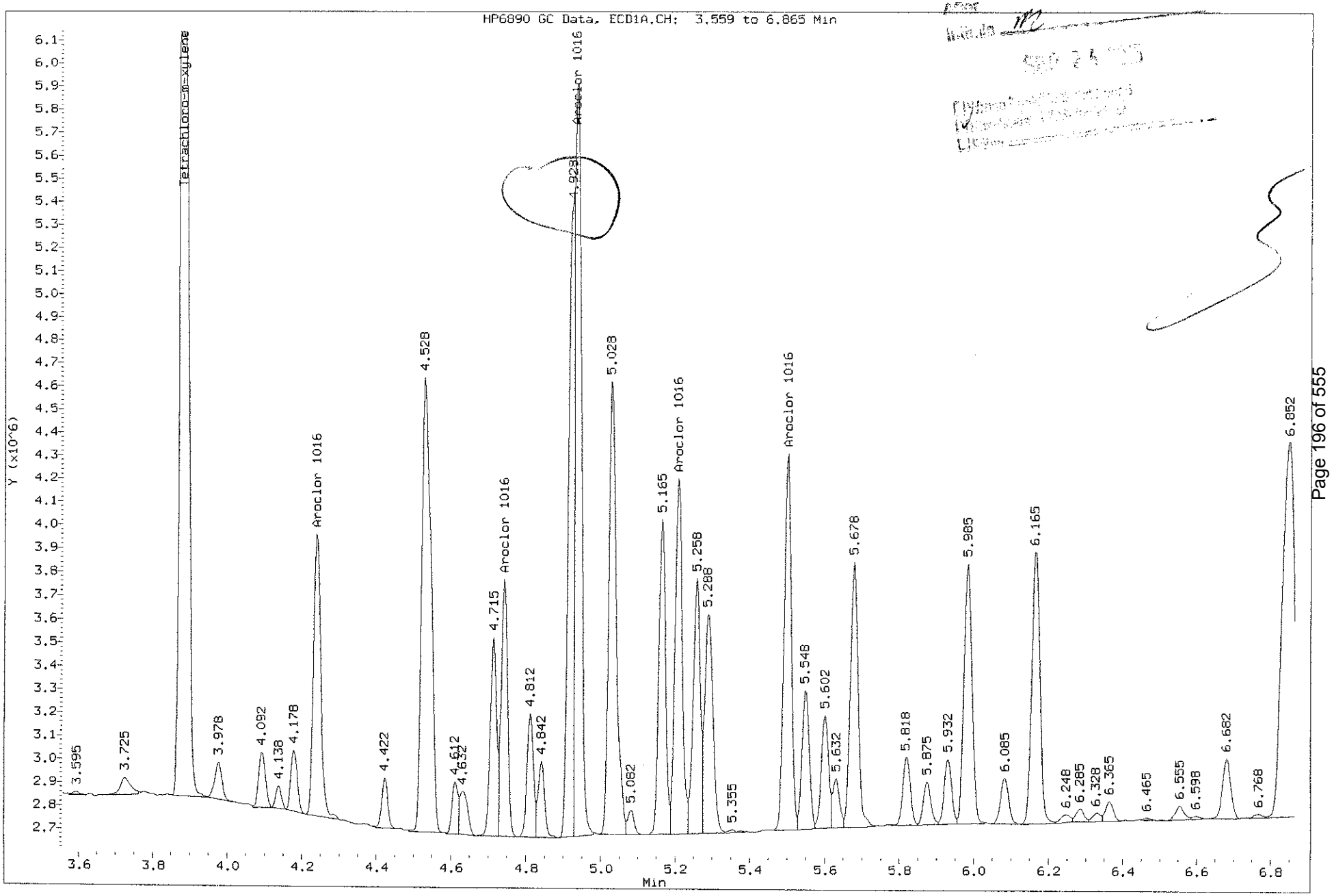
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Injection Date: 23-SEP-2015 12:43
Instrument: GC27.i
Client Sample ID:



Before

SEP 2 4 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Injection Date: 23-SEP-2015 12:43
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F012.D
Lab ID: KWG1509187-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 13:07
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV dk

Primary Review: MR 09/24/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F012.D
Lab ID: KWG1509187-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 13:07
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: nmc 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D			**Vial:**	99
Acqu Date:	09/23/2015 13:07	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.87		8931	0	0.0500	0.0000				NA
			%Recovery =		NA	NA	Limits =	33-120		
Decachlorobiphenyl	0.00	13.63	0	4981		0.0600				NA
			%Recovery =		NA	NA	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D			**Vial:**	99
Acqu Date:	09/23/2015 13:07	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}			0d	0	0.0000	0.0000			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}			0d	0	0.0000	0.0000			
Aroclor 1248 {5}			0d	0	0.0000	0.0000			
Aroclor 1254			0	0	3.24	3.01			
Aroclor 1254 {1}	6.28	6.74	9384	2516	2.41	0.6850			
Aroclor 1254 {2}	6.68	7.05	31541	20920	4.35	3.61			
Aroclor 1254 {3}	6.83	7.12	72261	6147	4.94	3.17			
Aroclor 1254 {4}	7.16	8.01	12087	10317	1.26	4.55			
Aroclor 1254 {5}	7.74		0	0	0.0000	0.0000			
Aroclors, Total			69788	20790	6.40	4.83	J	J	
Aroclor 1260			0	0	2.31	1.03			
Aroclor 1260 {1}	7.07		49927	0	5.07	0.0000			
Aroclor 1260 {2}		9.25	0	4449	0.0000	1.18			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.10	10.38	8502	3068	0.4520	0.3550			
Aroclor 1260 {5}	9.89	11.04	19888	8706	1.40	1.56			
Aroclor 1262			0	0	0.8530	0.7957			
Aroclor 1262 {1}		9.25	0	4449	0.0000	0.7690			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.10	10.38	8502	3068	0.3680	0.3180			
Aroclor 1262 {4}	9.89	11.04	19888	8706	1.15	1.30			
Aroclor 1262 {5}	11.04		8703	0	1.05	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D
Inj Date : 23-SEP-2015 13:07
Sample Info: IB
Misc Info :
Cal Date : 24-SEP-2015 07:33
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.868	0.000	8931	0	0.0505	0.000		100.00
Aroclor 1254	6.281	6.742	9384	2516	2.41	0.685	80.00- 120.00	100.00
	6.678	7.052	31541	20920	4.35	3.61	1017.66-1526.49	336.11
	6.831	7.115	72261	6147	4.94	3.17	9646.23-14469.35	770.04
	7.155	8.012	12087	10317	1.26	4.55	1126.72-1690.08	128.80
	7.735	0.000					74.41- 111.61	0.00
		Average of Peak Amounts =			3.24	3.00		
Aroclor 1260	7.071	0.000	49927		5.07		80.00- 120.00	100.00(T)
	0.000	9.248		4449		1.18	148.32- 222.49	0.00(T)
	0.000	0.000					137.59- 206.38	0.00(T)
	9.098	10.378	8502	3068	0.452	0.355	165.26- 247.89	17.03(T)
	9.891	11.035	19888	8706	1.40	1.56	130.88- 196.31	39.83(T)
		Average of Peak Amounts =			2.31	1.03		
Aroclor 1262	0.000	9.248		4449		0.769	80.00- 120.00	100.00(T)
	0.000	0.000					56.43- 84.64	0.00(T)
	9.098	10.378	8502	3068	0.368	0.318	185.52- 278.29	0.00(T)
	9.891	11.035	19888	8706	1.15	1.30	145.56- 218.35	0.00(T)
	11.041	0.000	8703		1.04		49.79- 74.69	0.00(T)
		Average of Peak Amounts =			0.853	0.796		
Decachlorobiphenyl	0.000	13.628	0	4981	0.000	0.0605		
Aroclors, Total	0.000	0.000	69788	20790	6.40	4.83		0.00

QC Flag Legend

T - Target compound detected outside RT window.

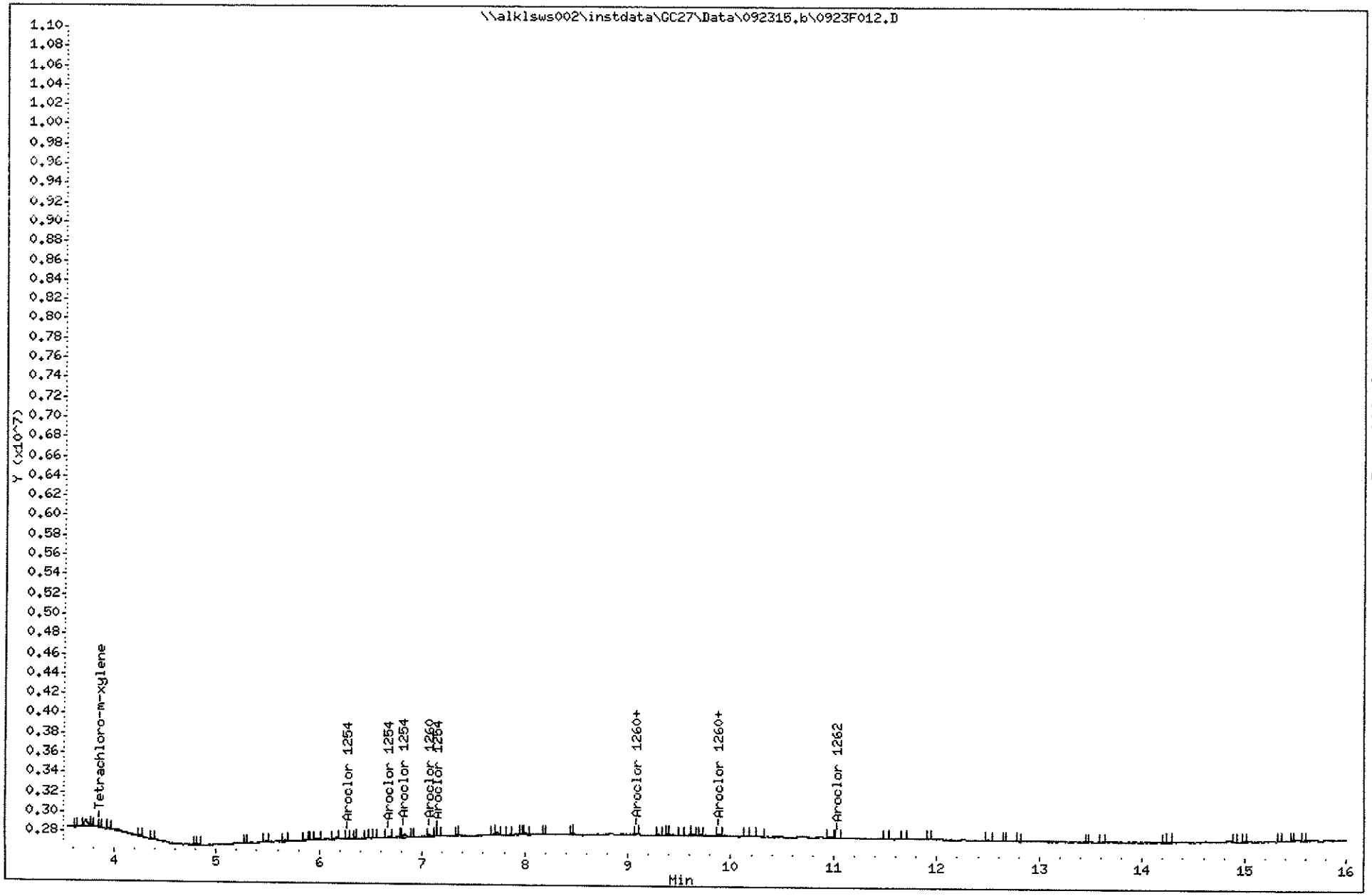
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Date : 23-SEP-2015 13:07
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



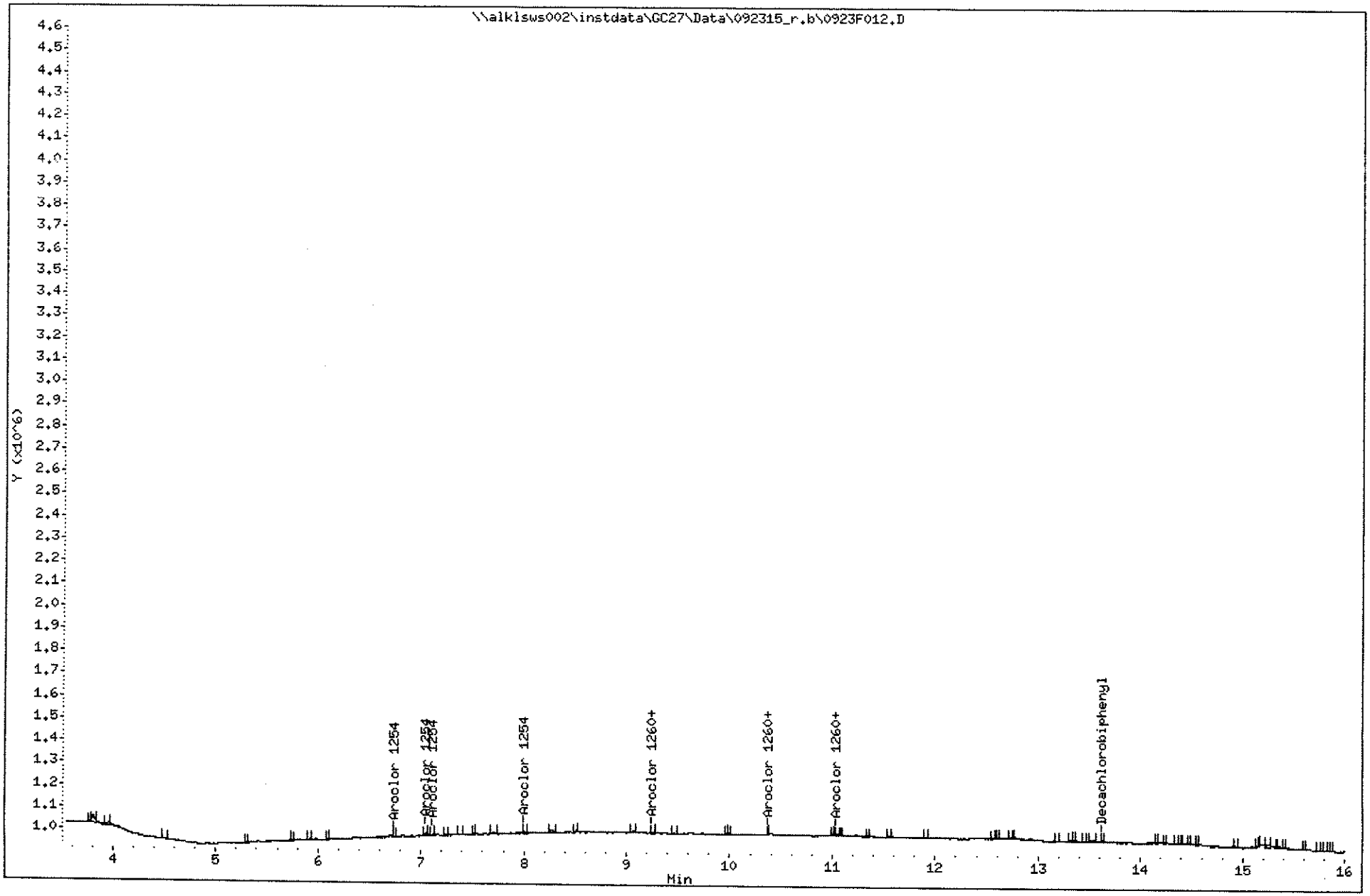
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D
Date : 23-SEP-2015 13:07
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

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Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZoD, reaches standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50 ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696

Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *↓	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ -20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *2C
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

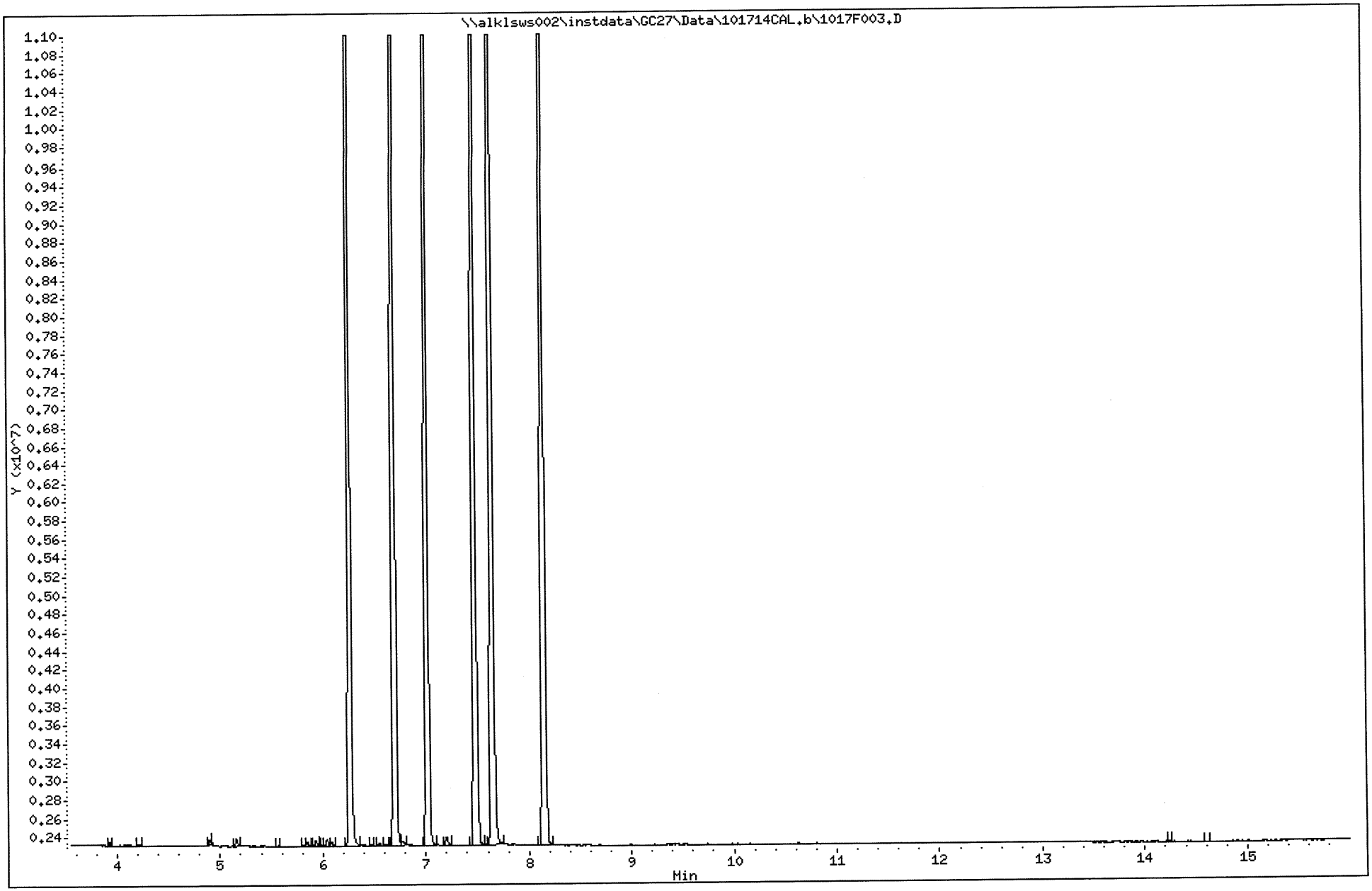
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



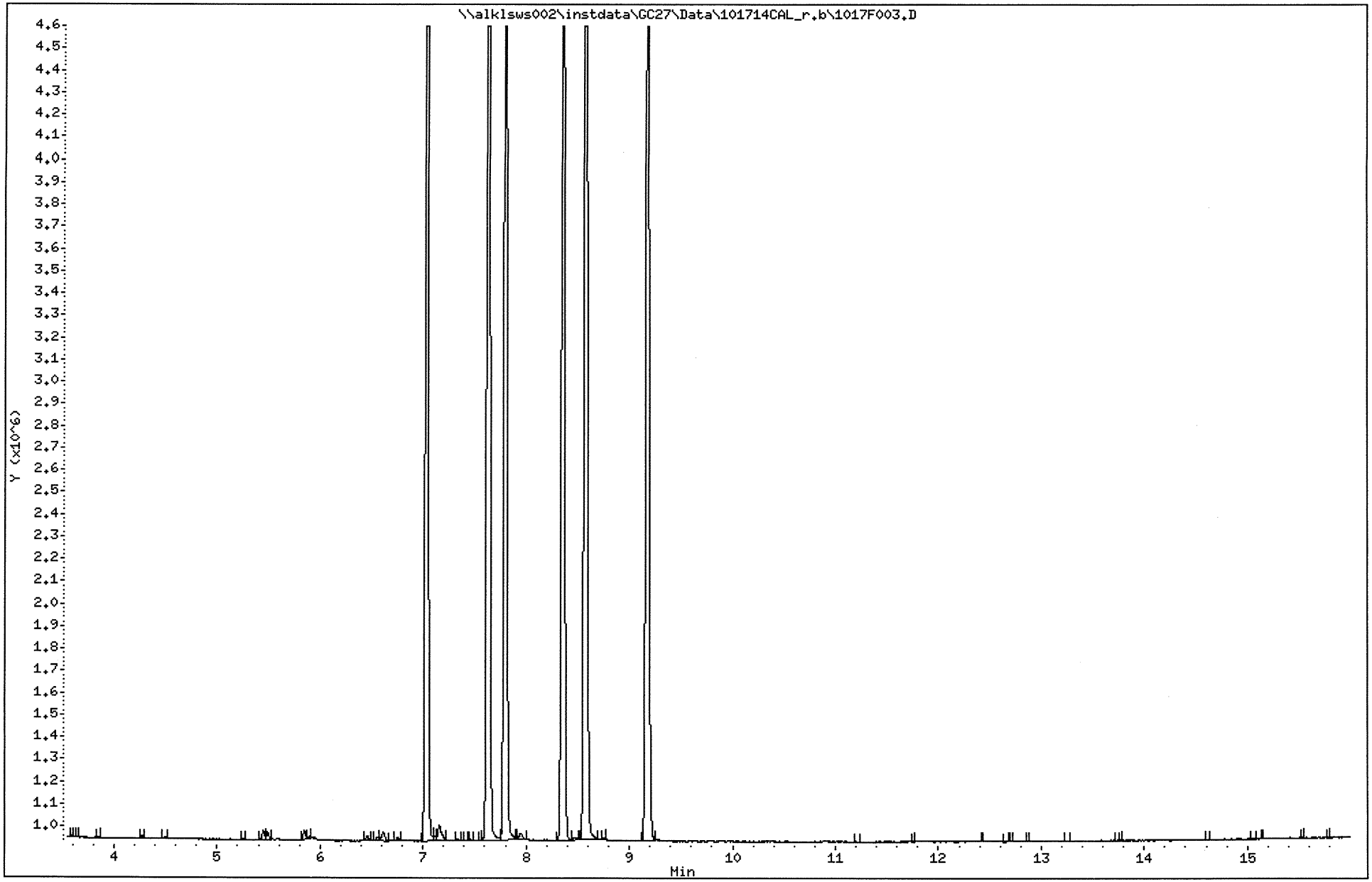
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

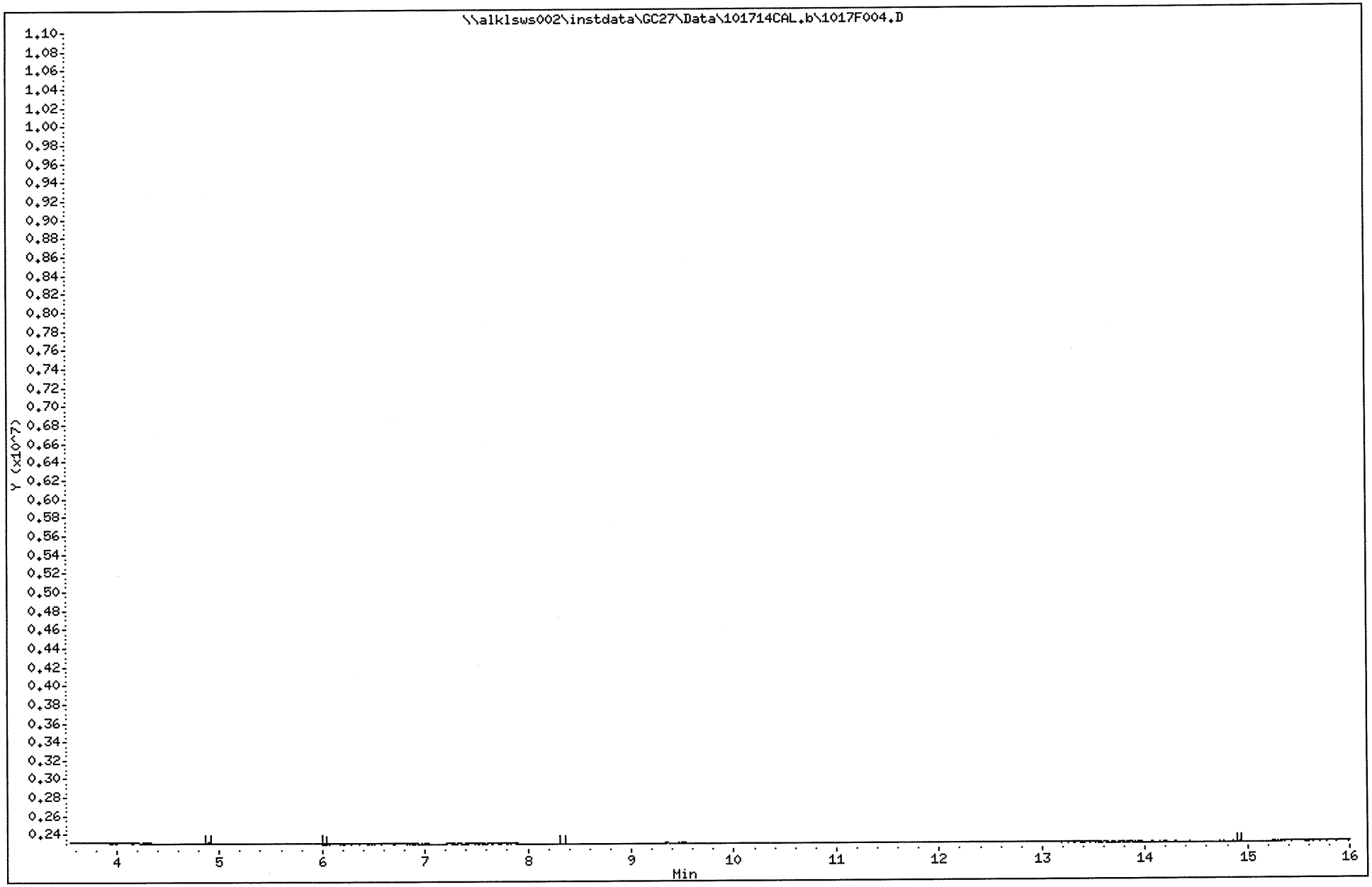
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



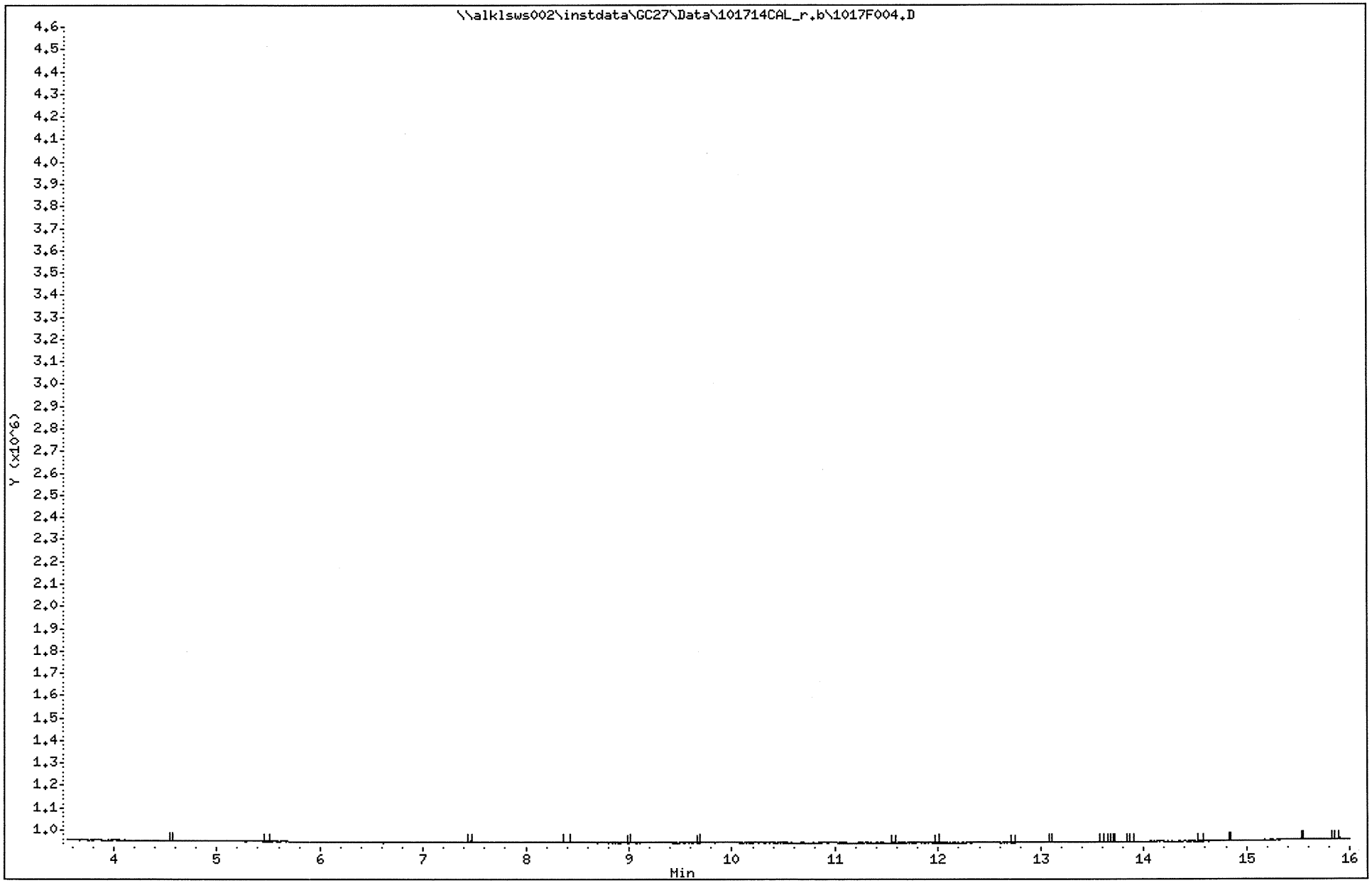
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

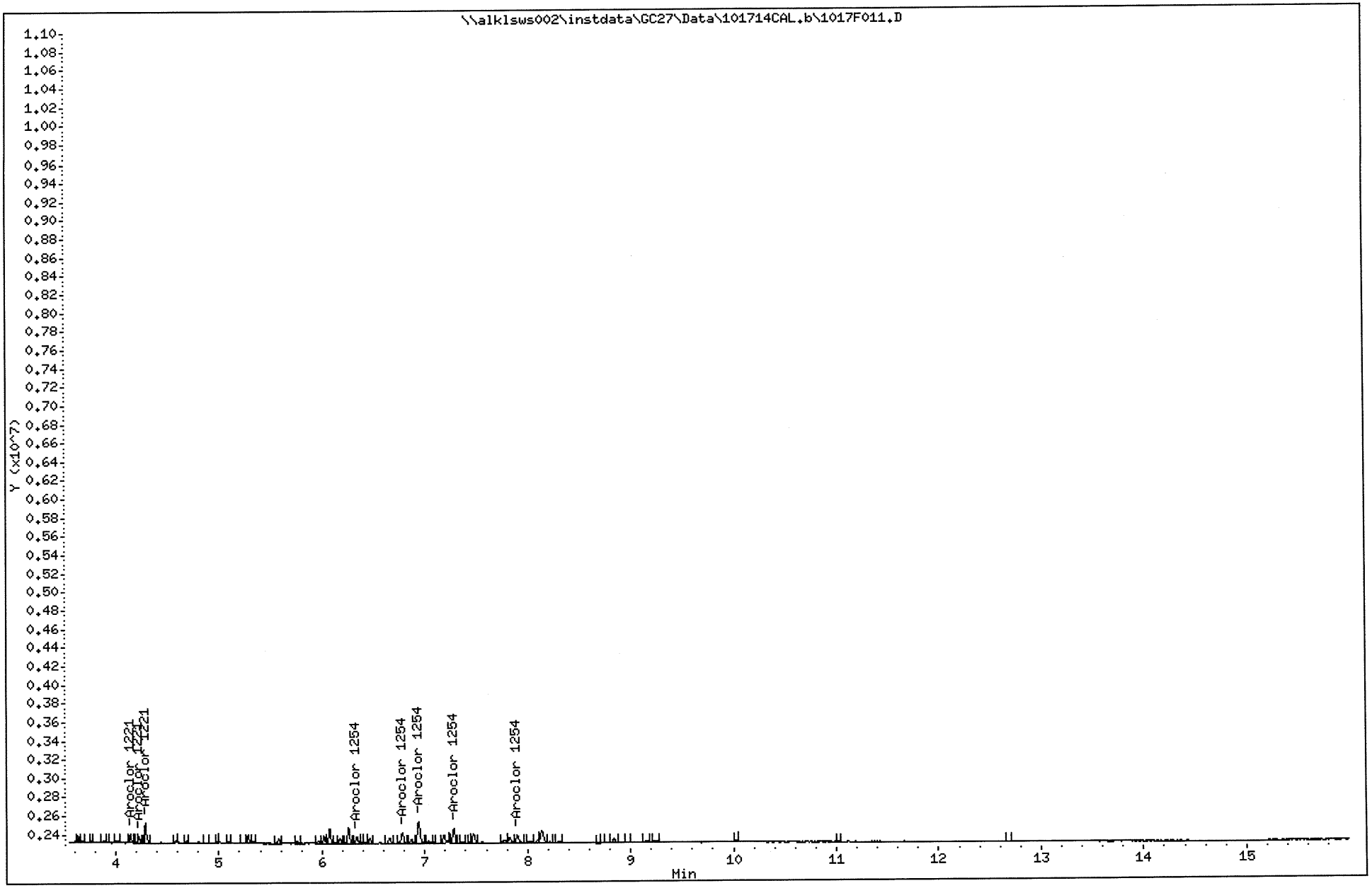
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



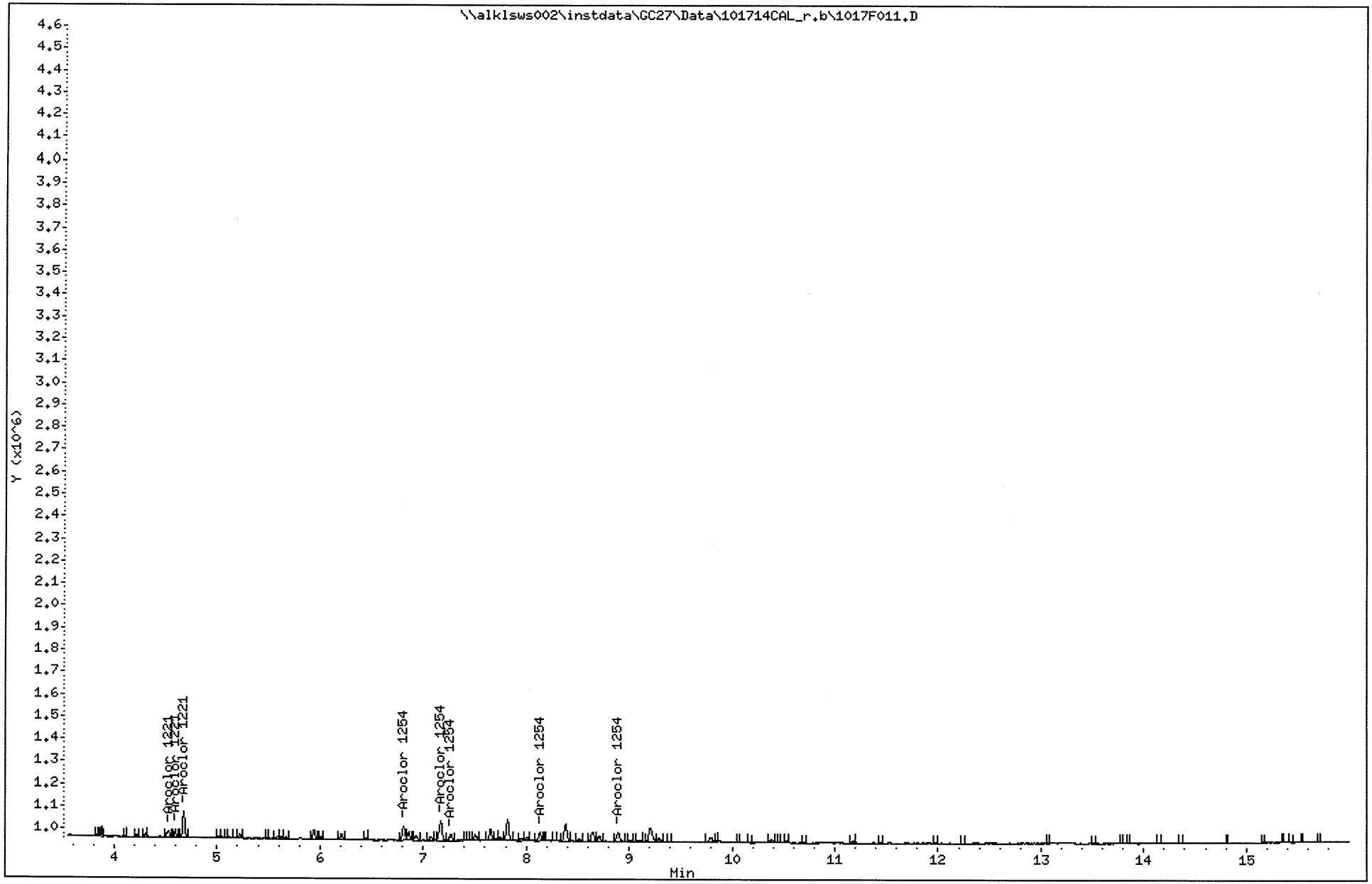
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

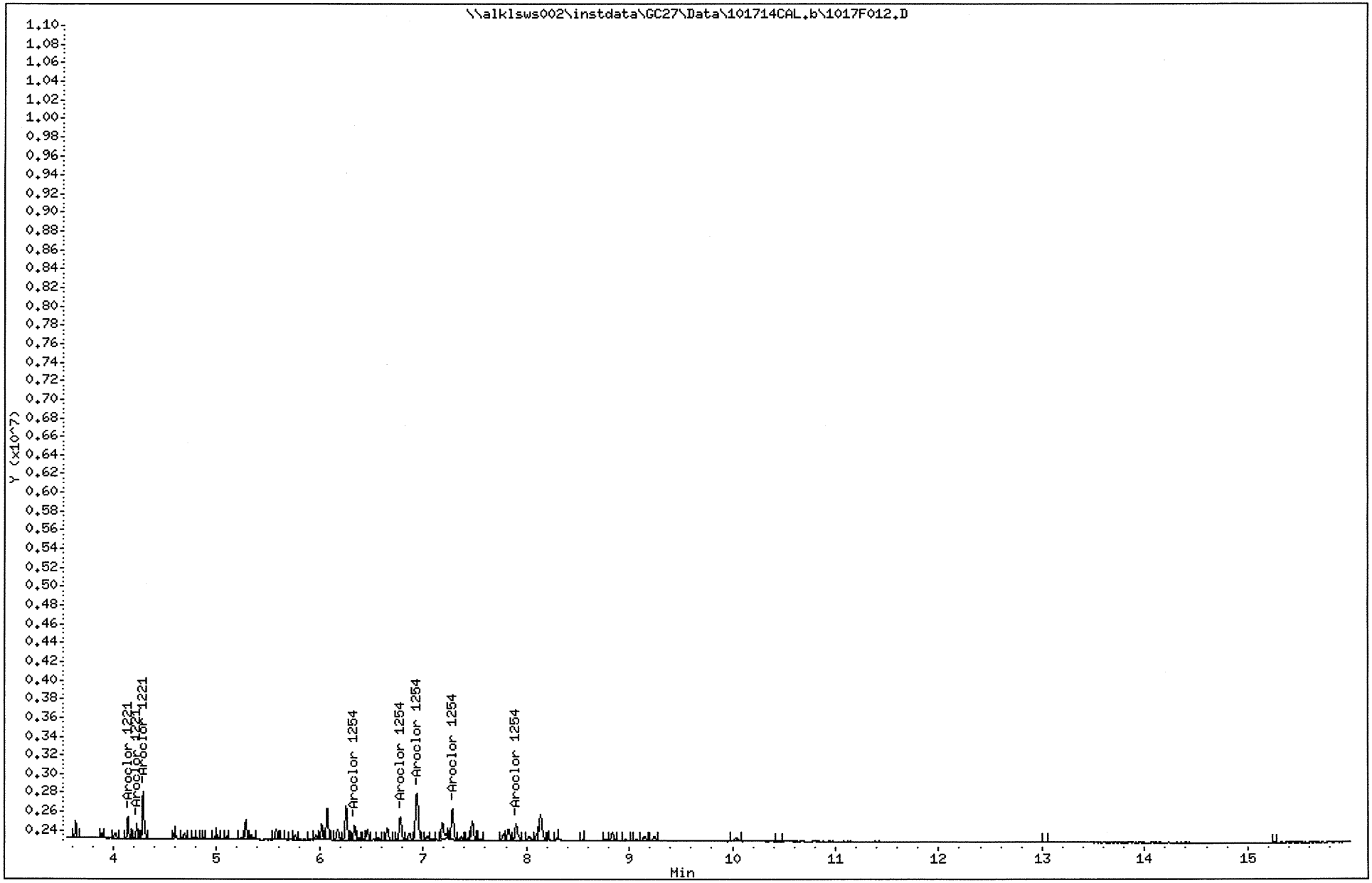
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



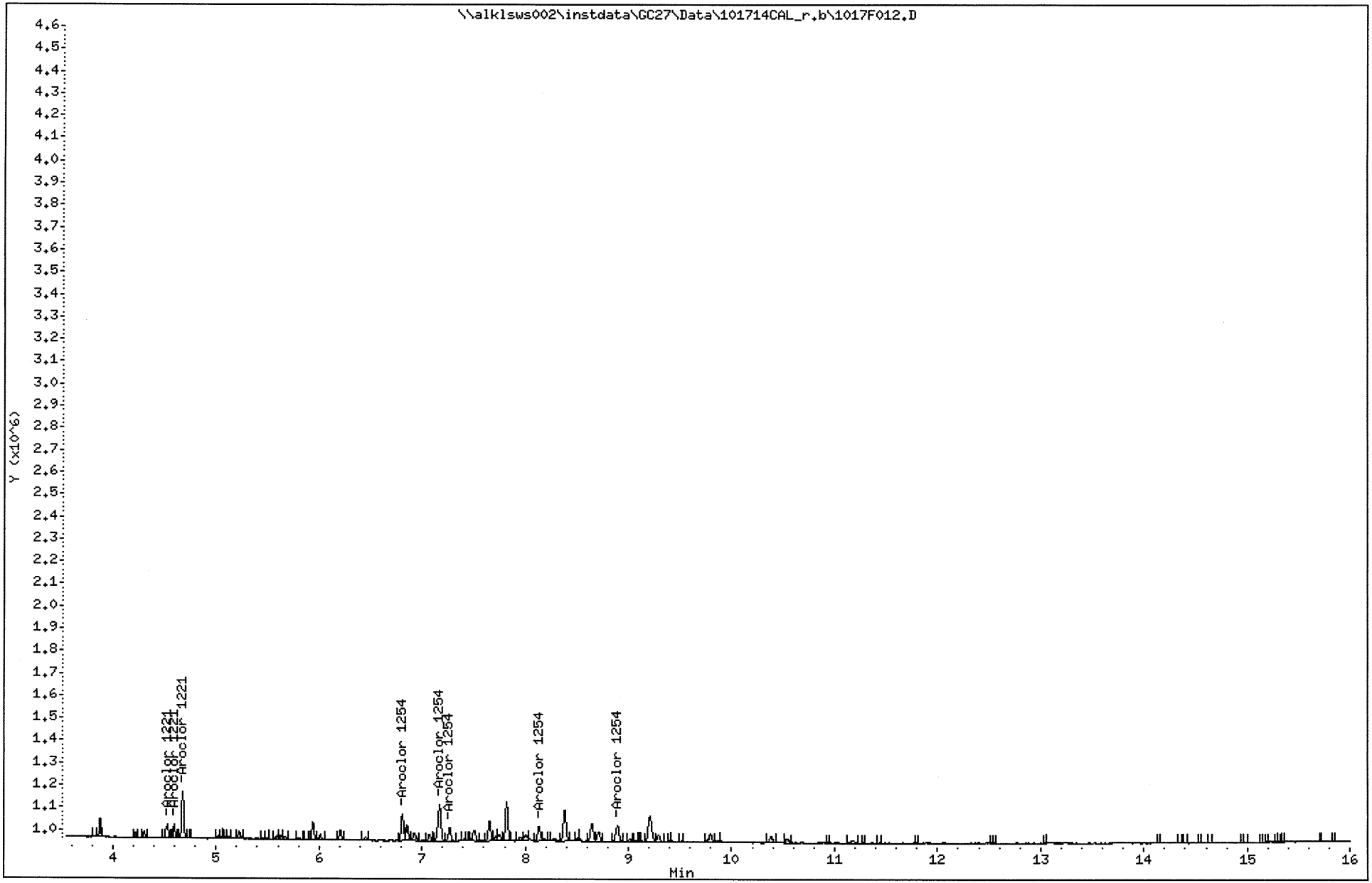
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

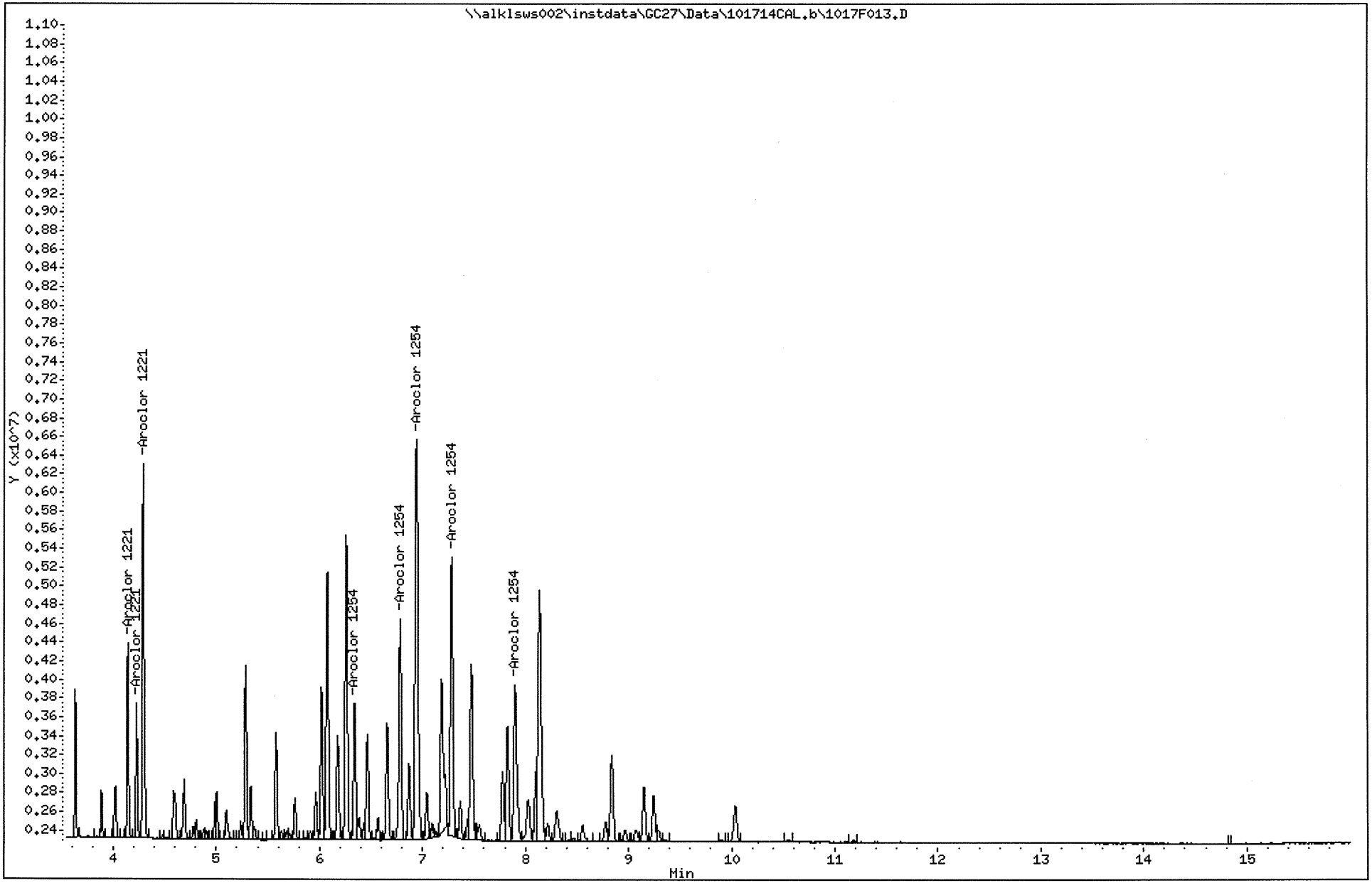
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



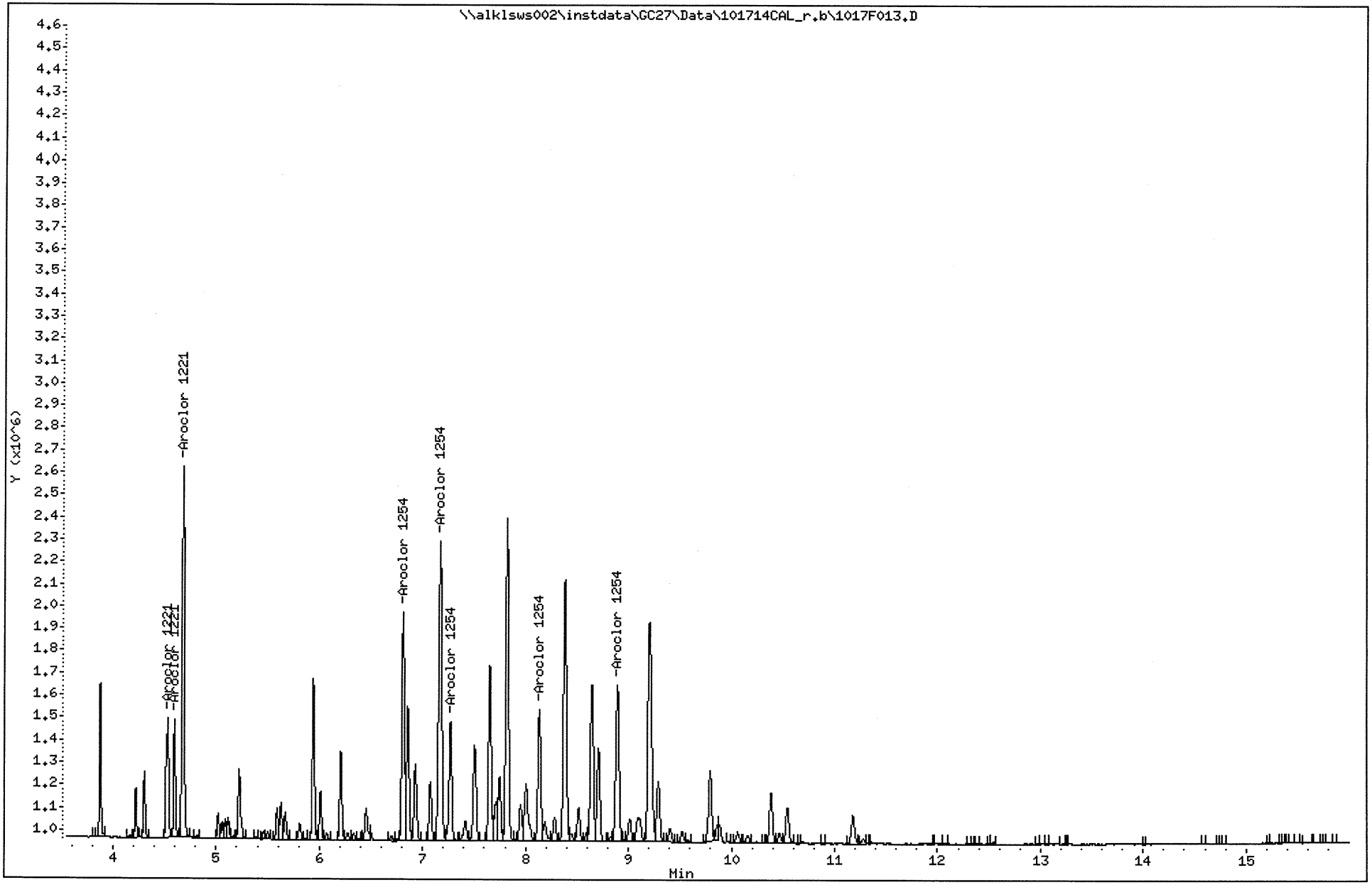
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

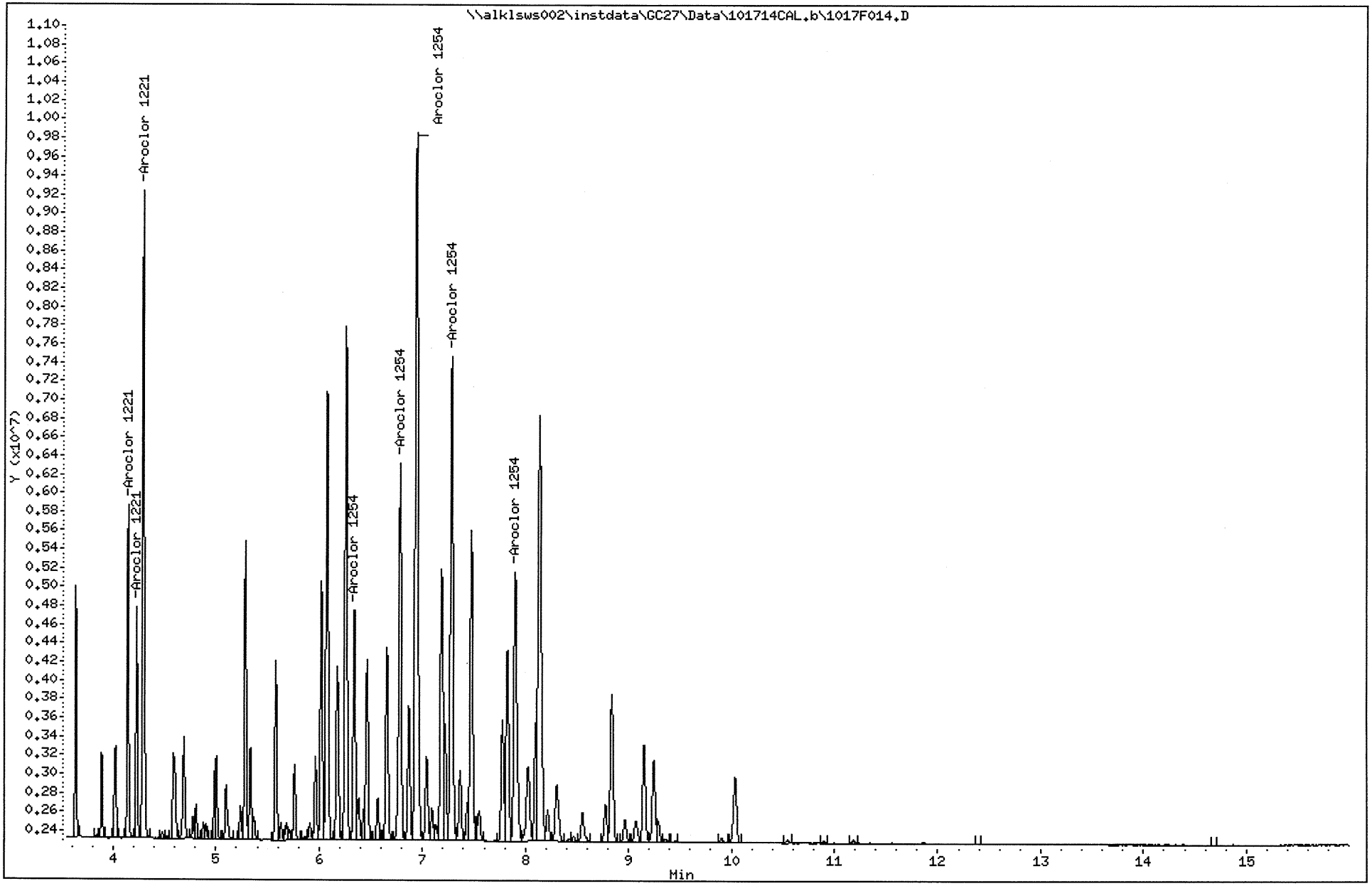
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

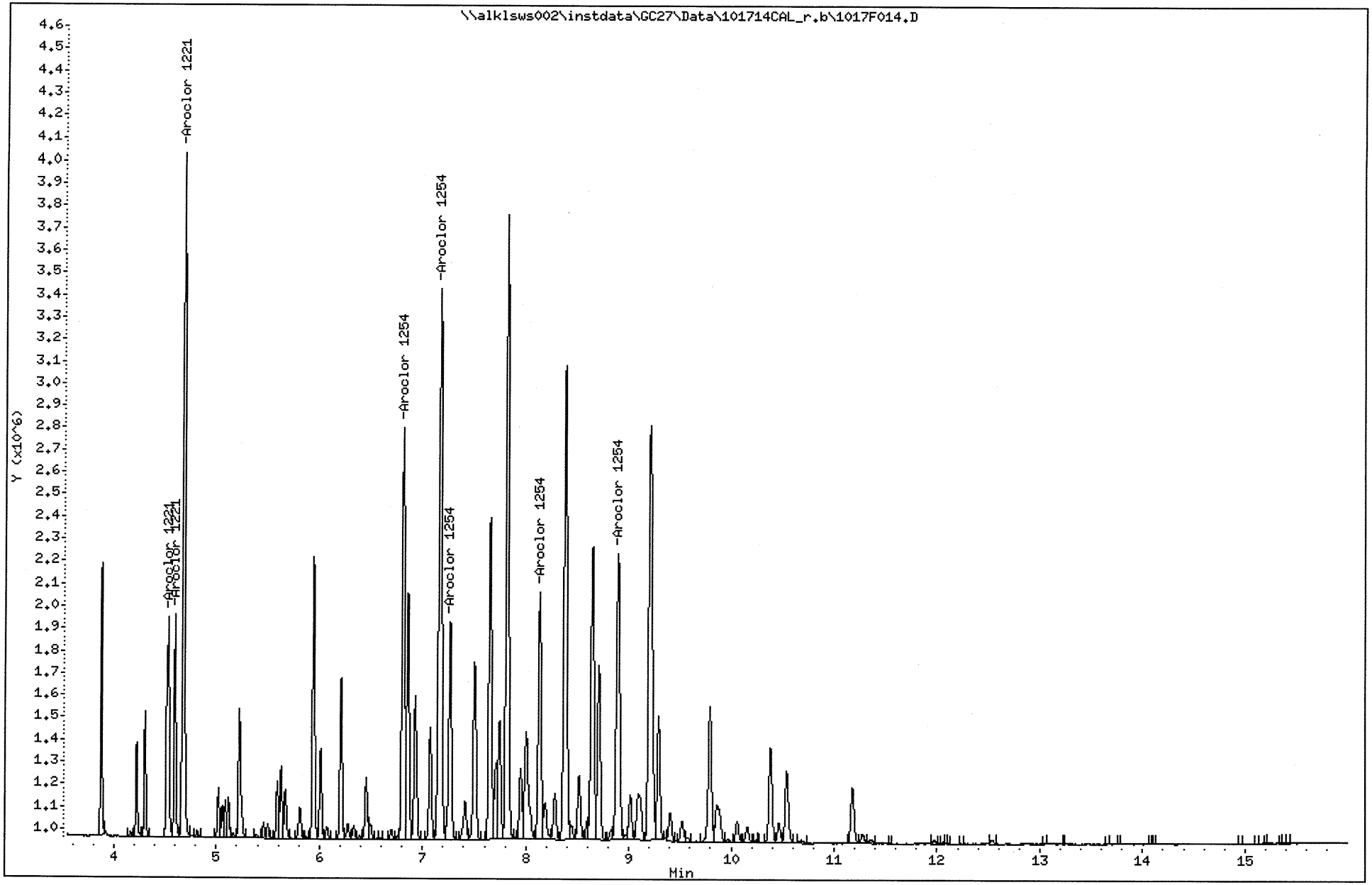


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

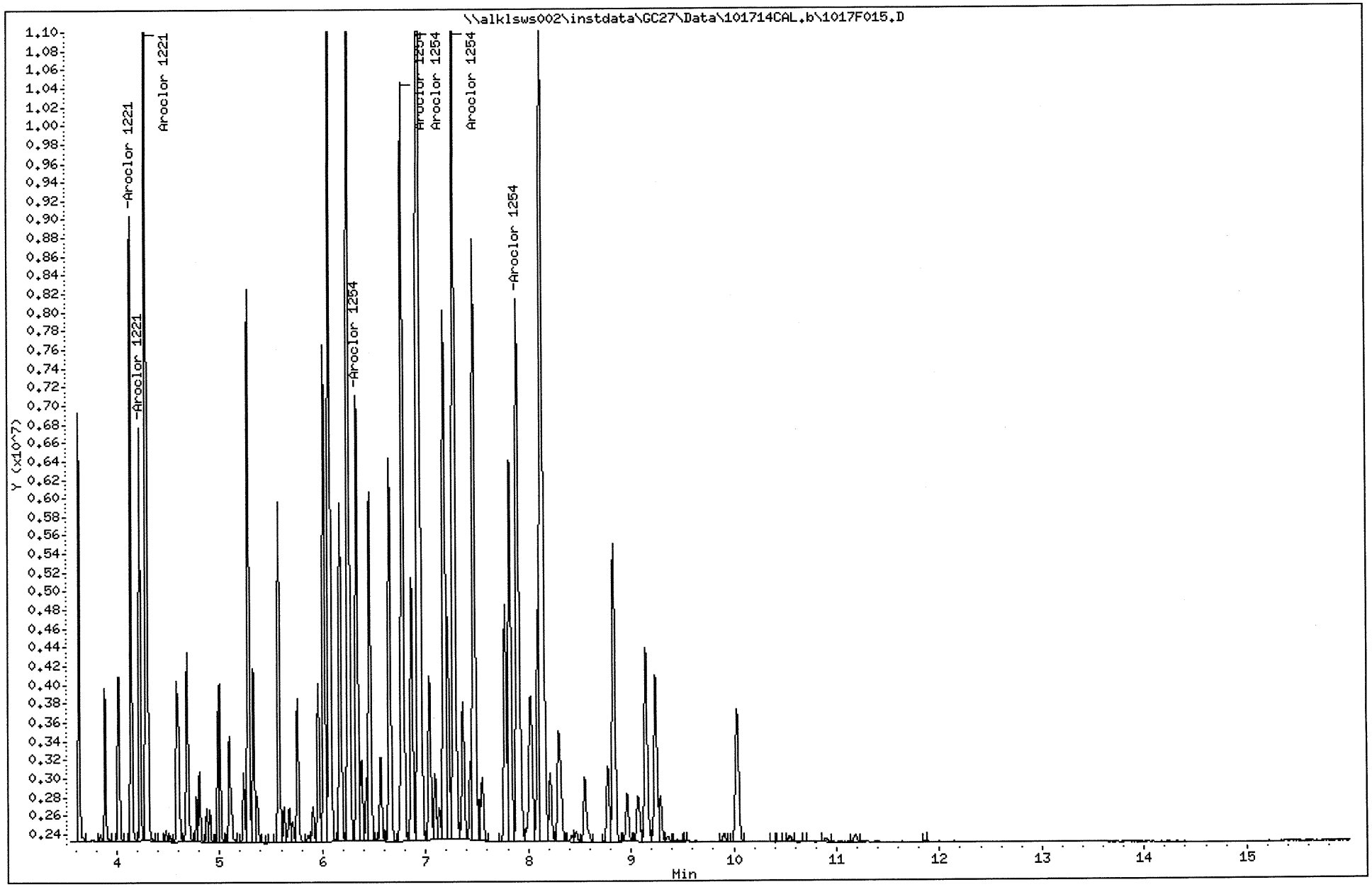
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

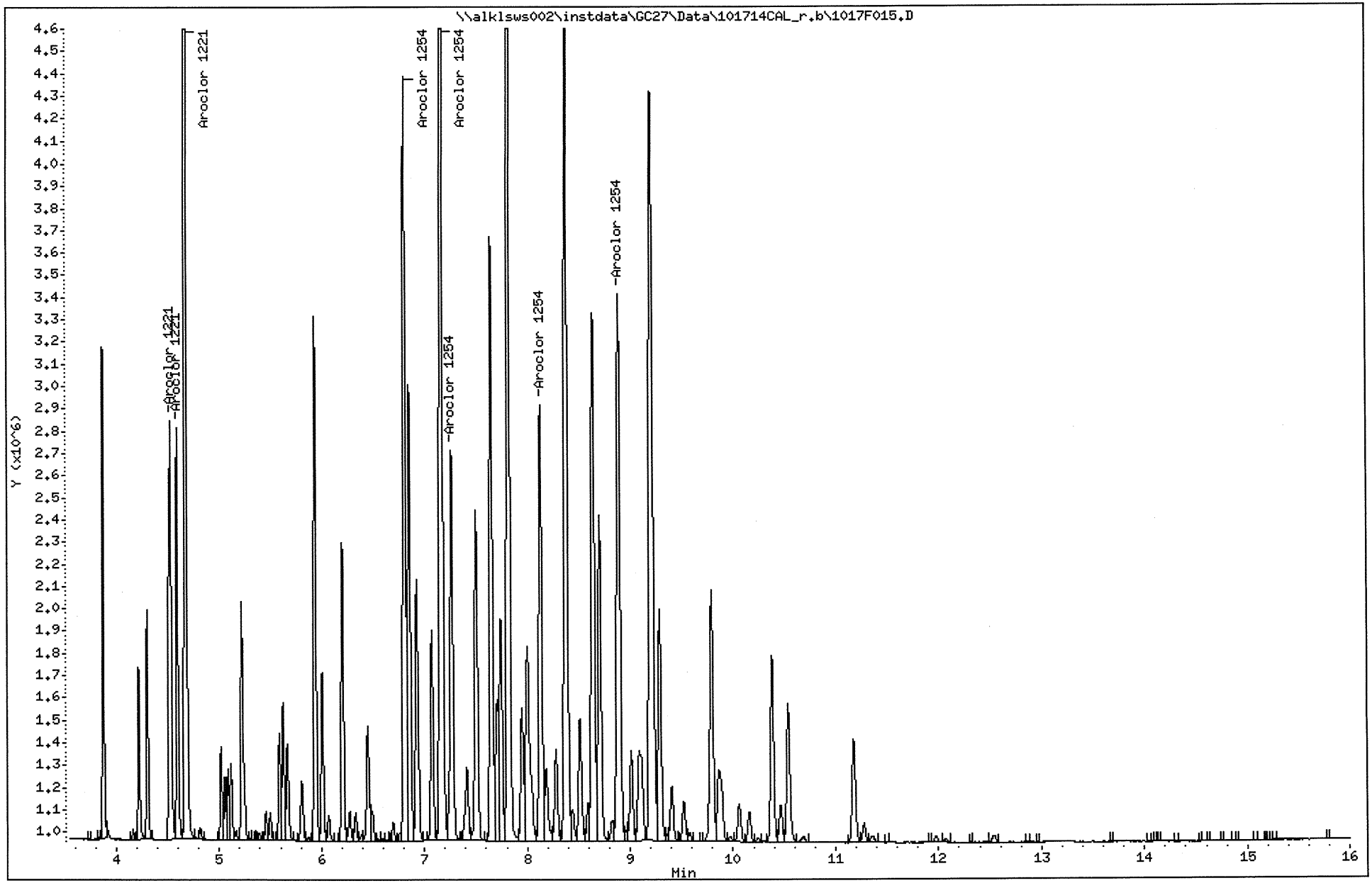


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

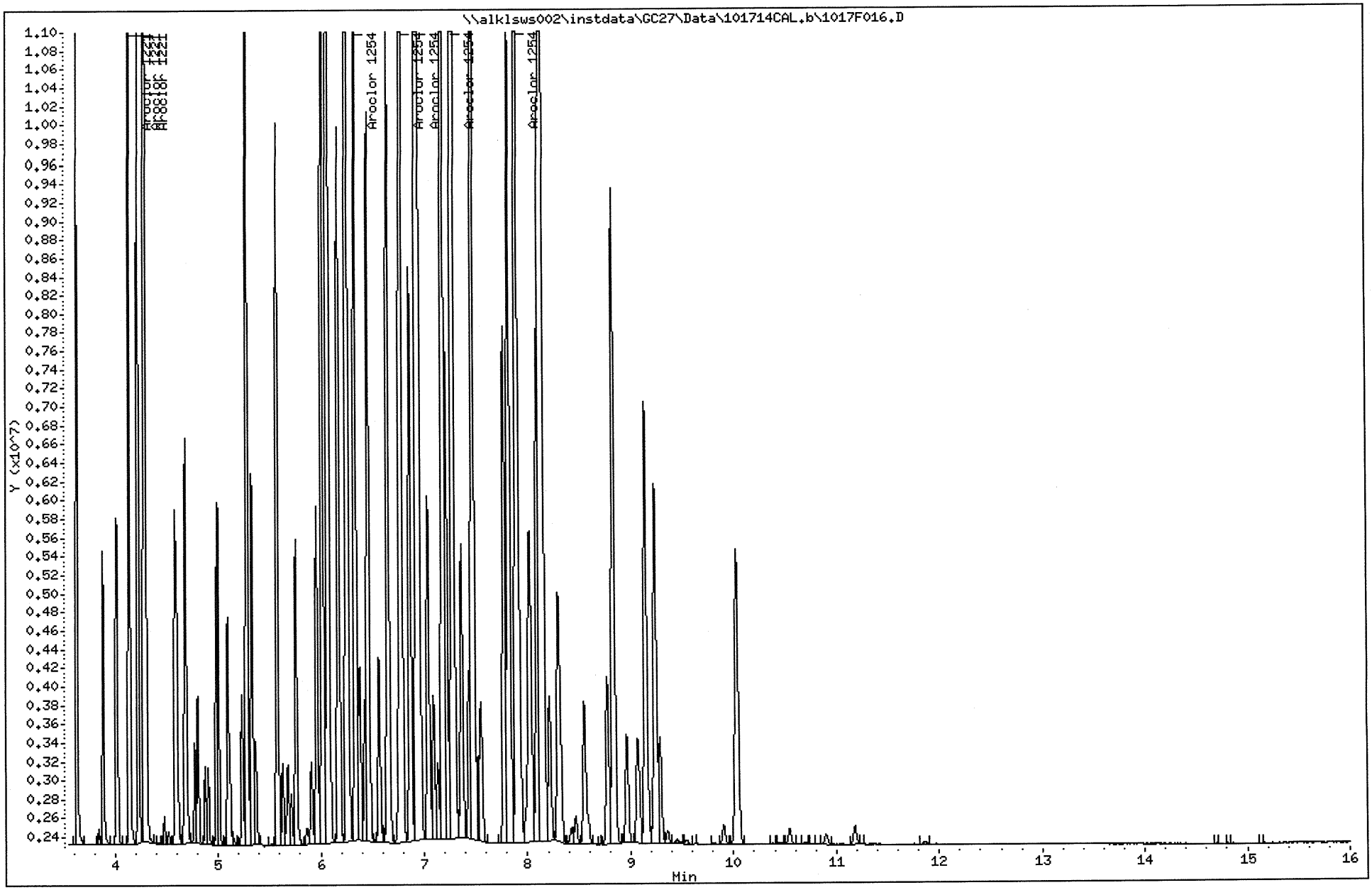
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



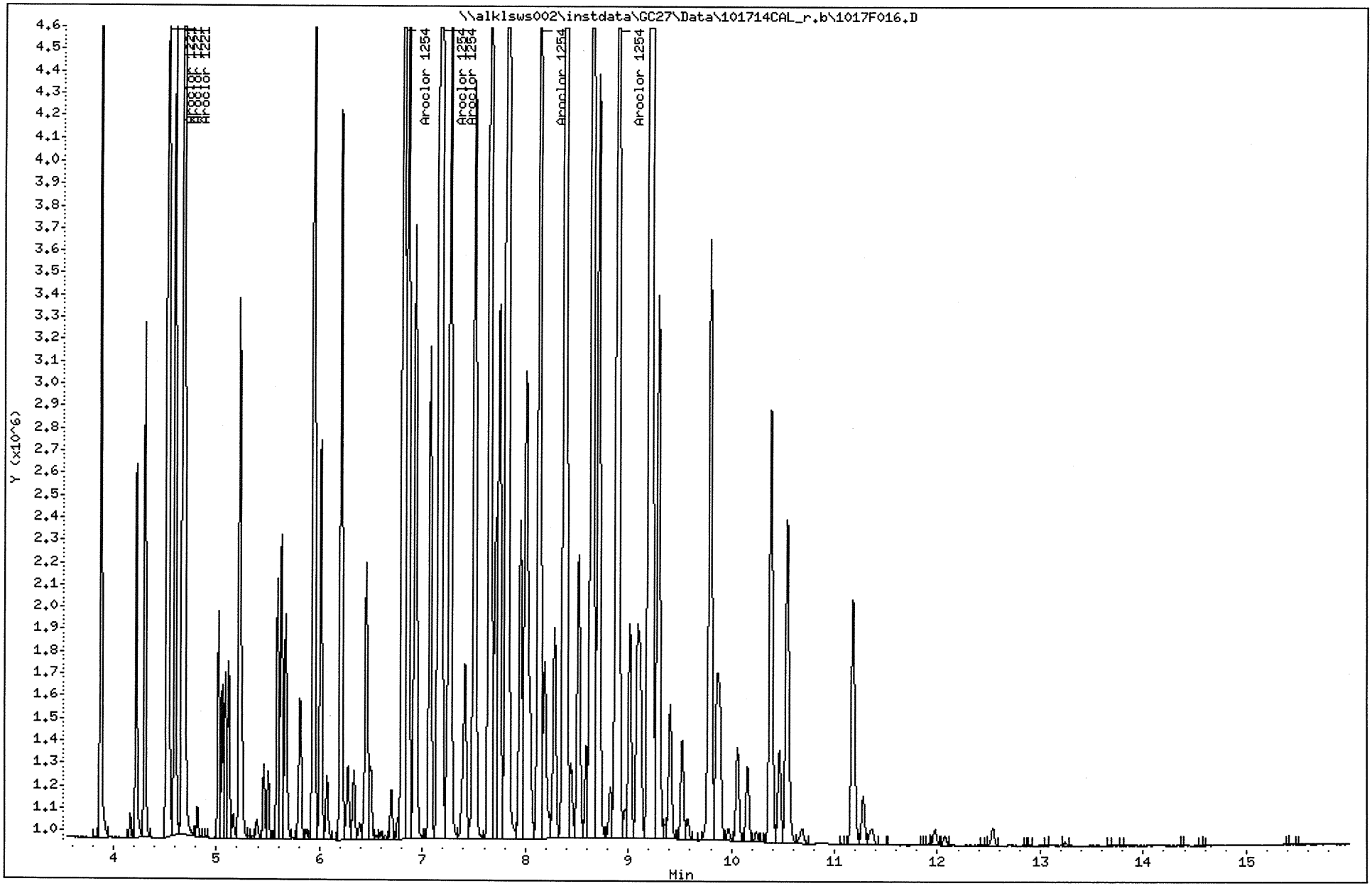
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

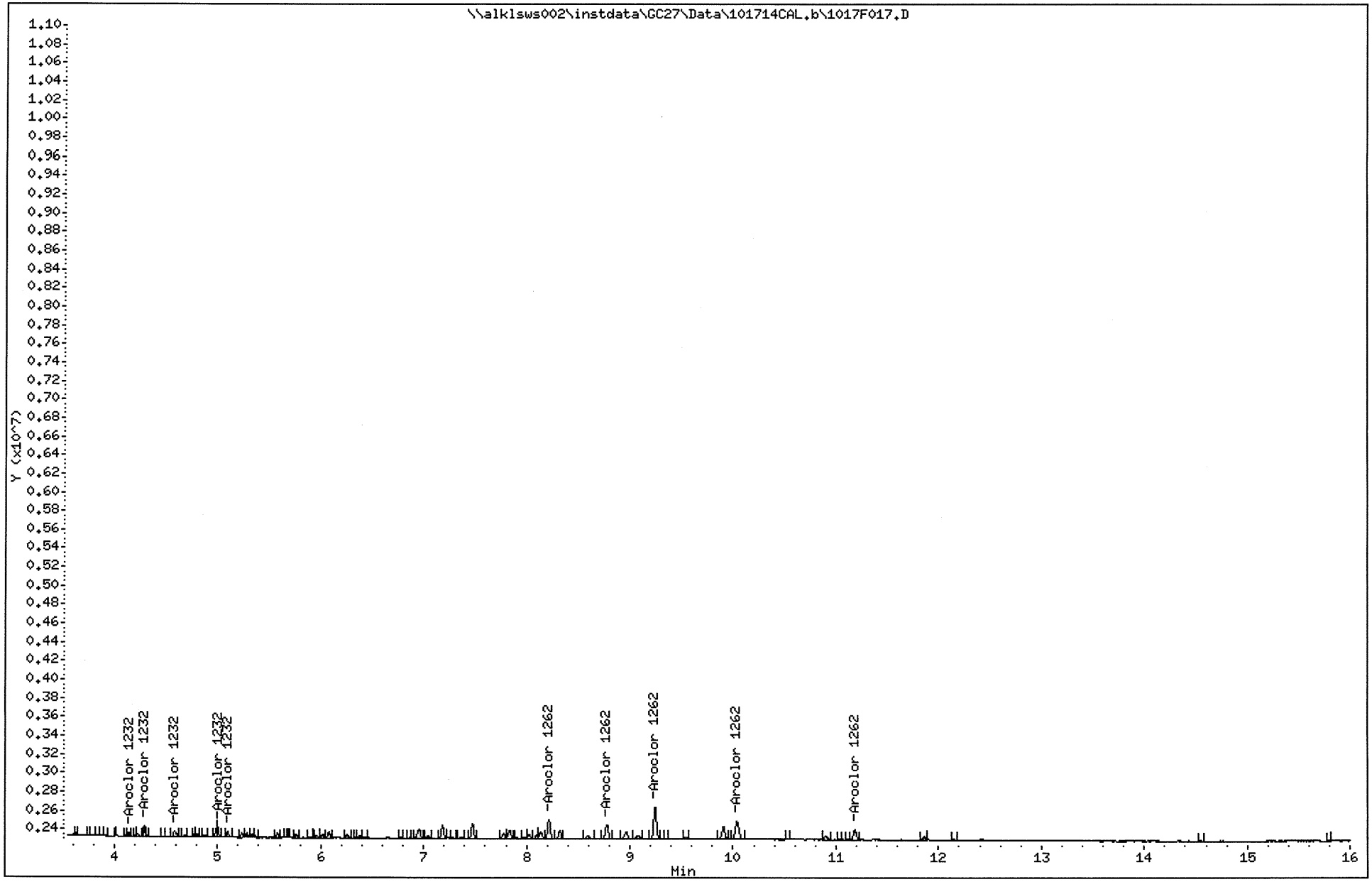
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



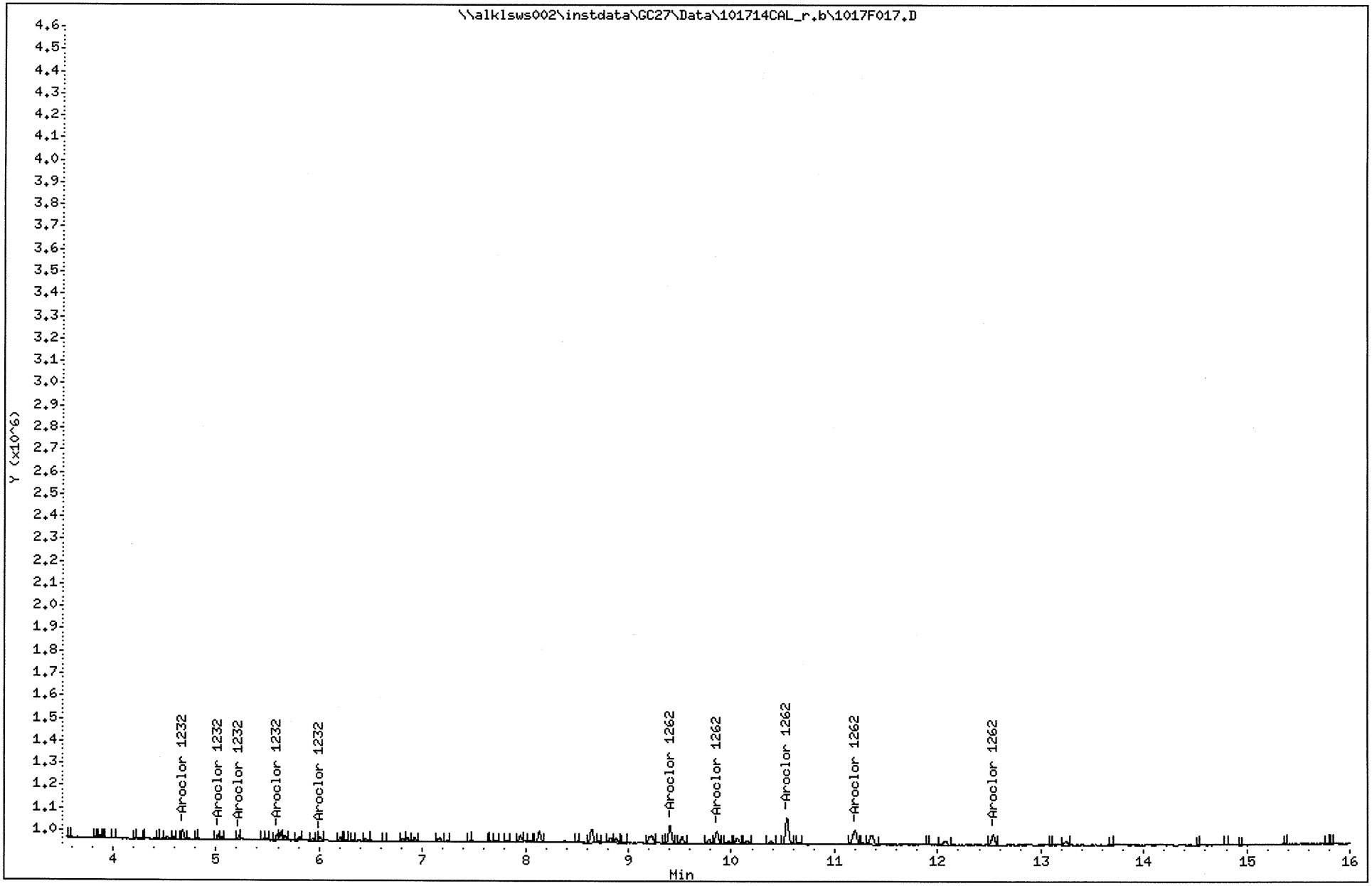
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

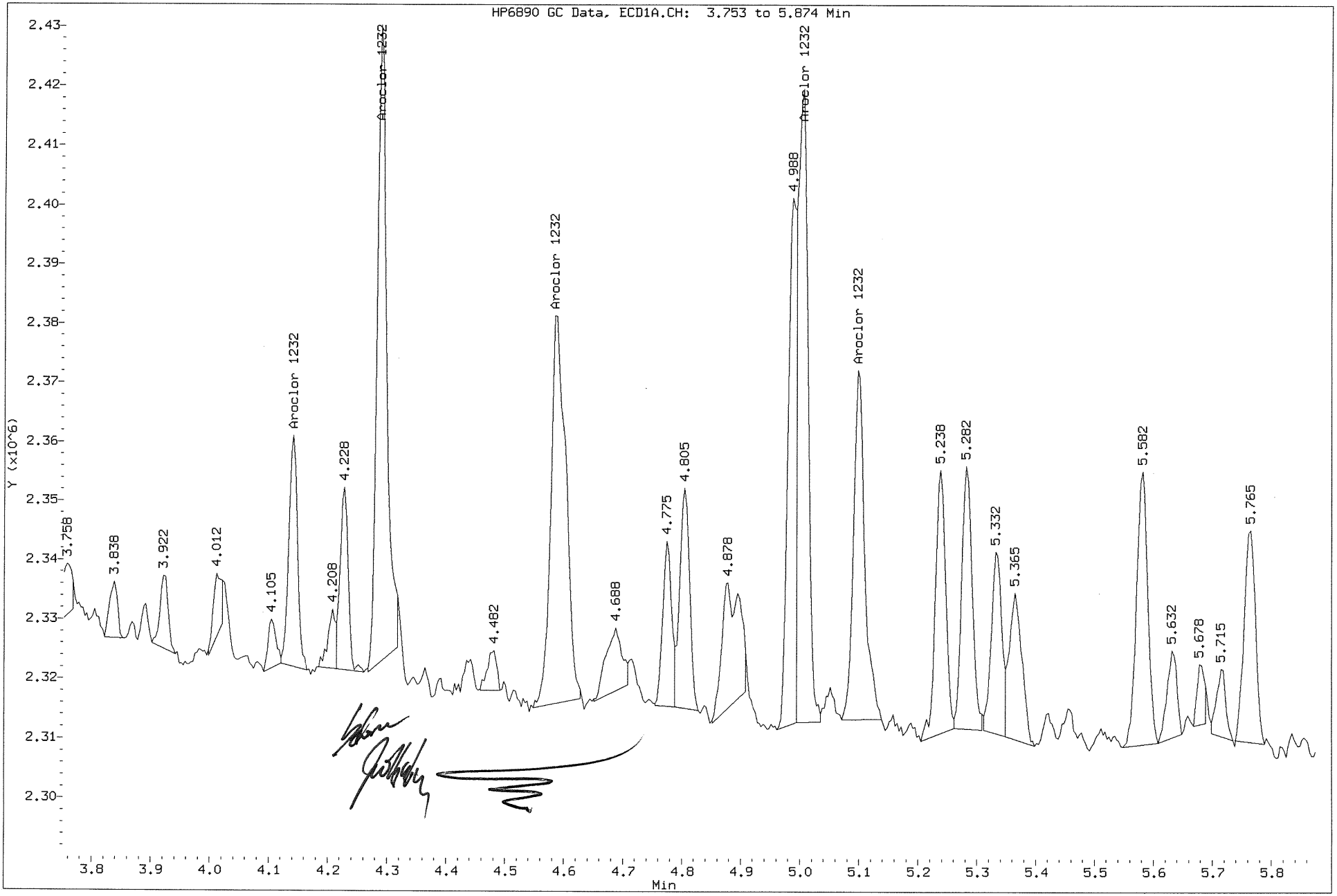
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



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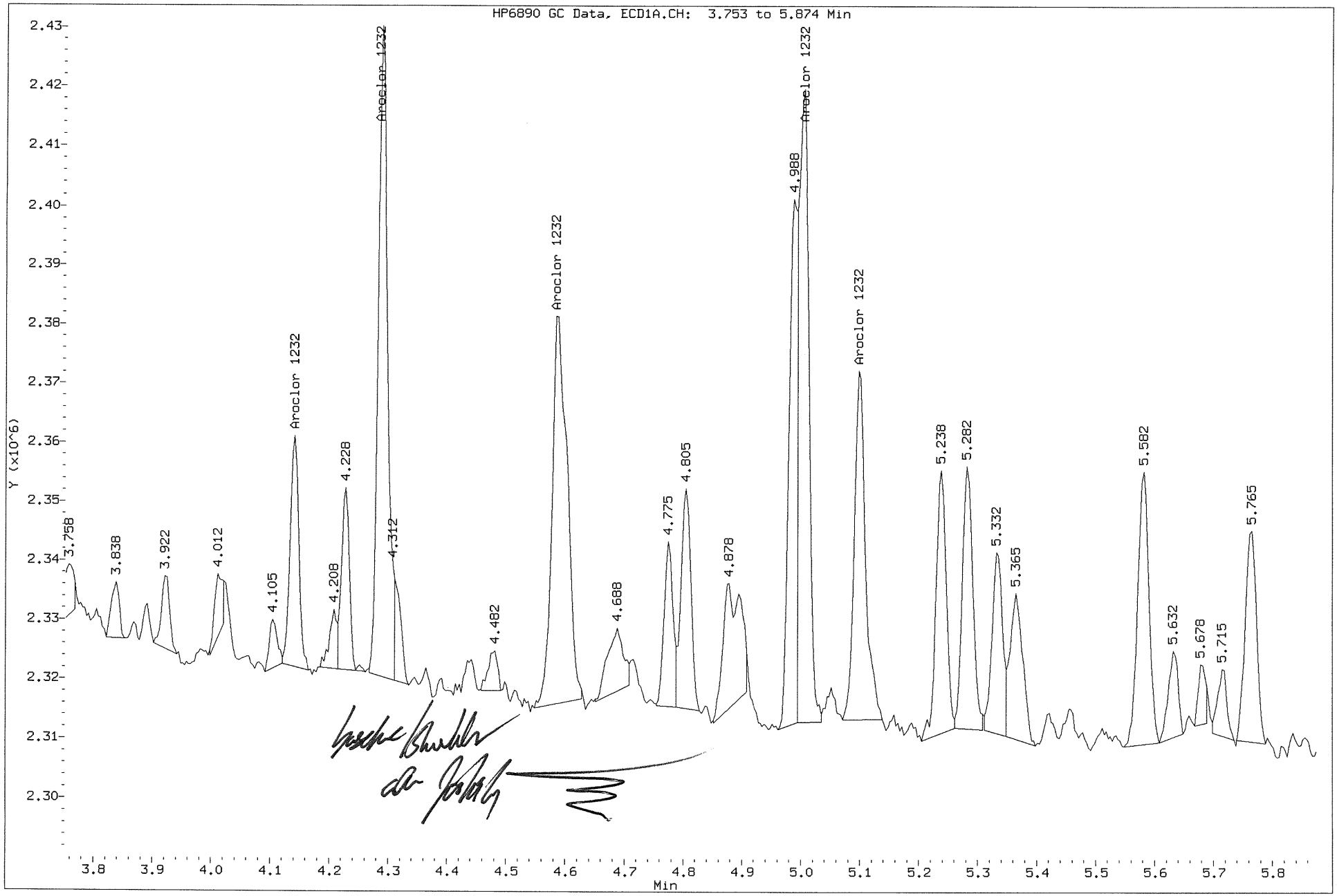
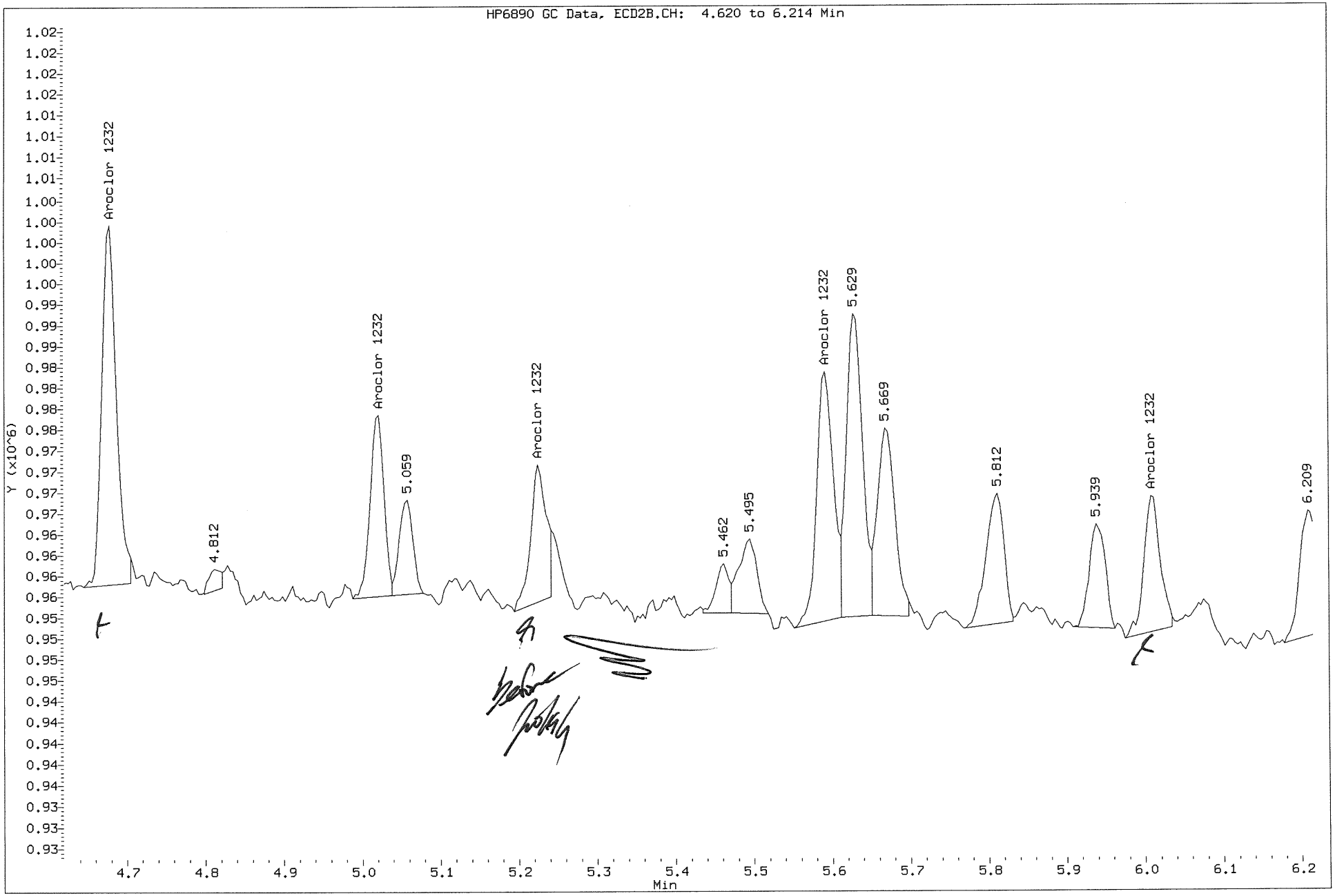
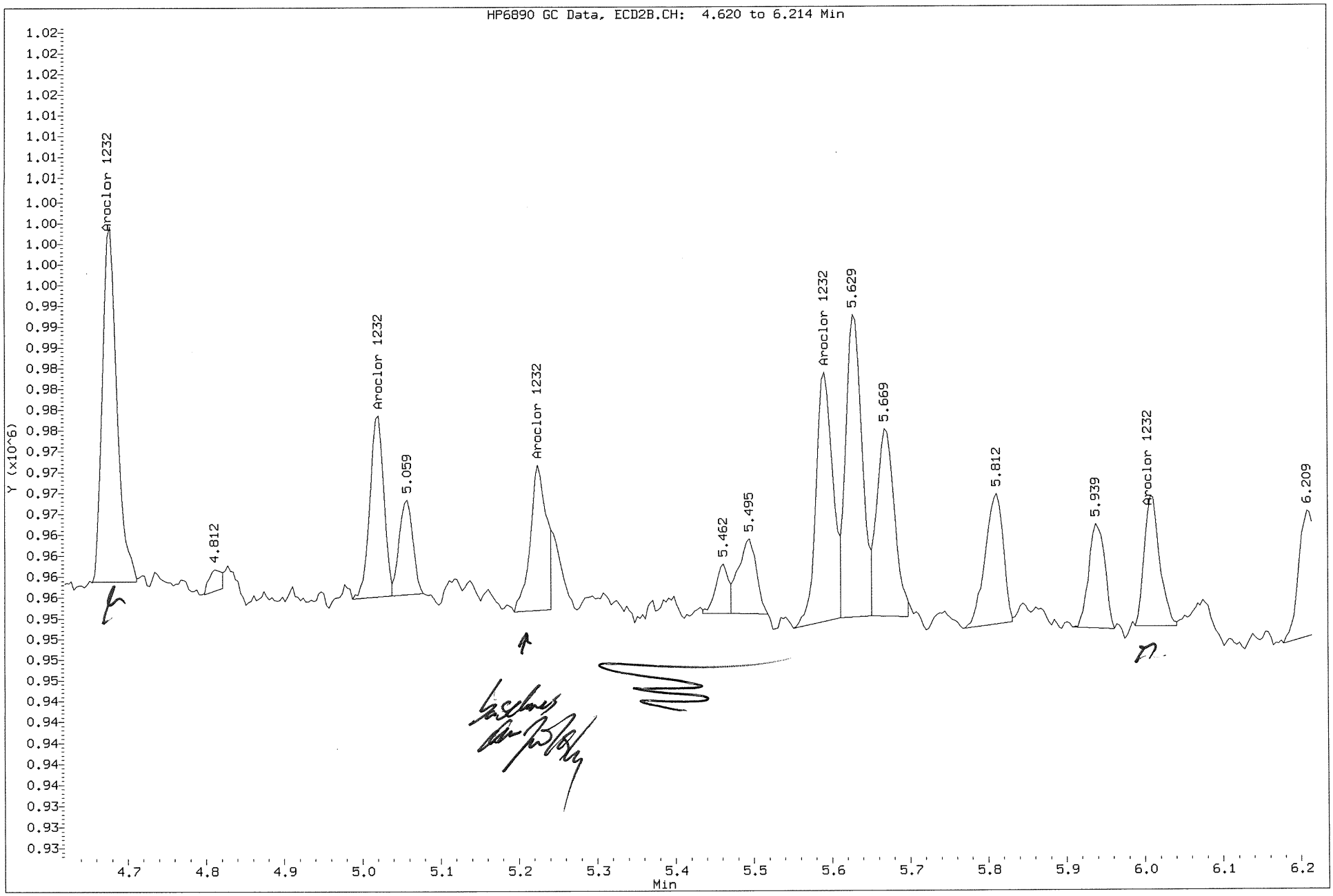
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

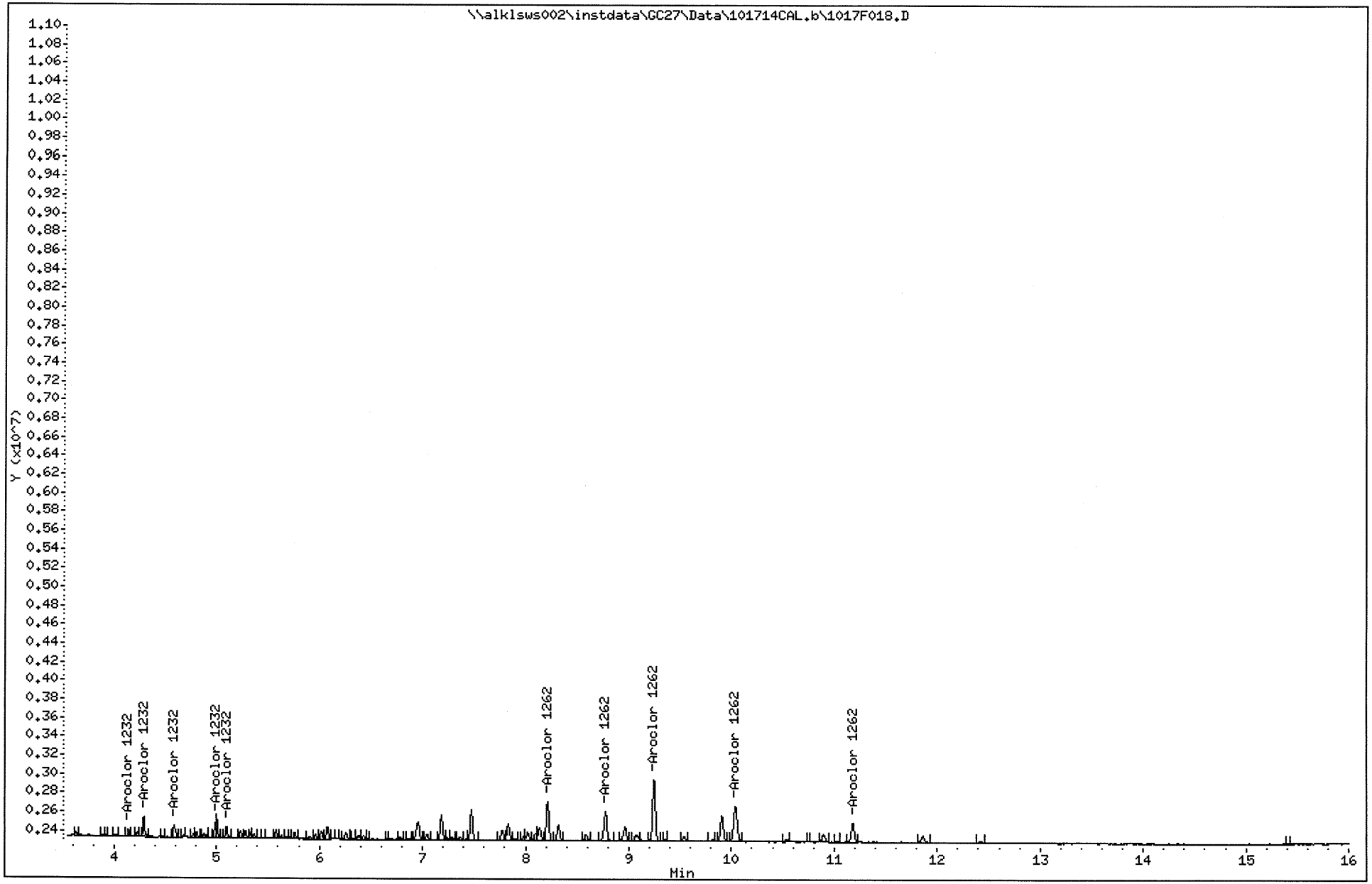
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

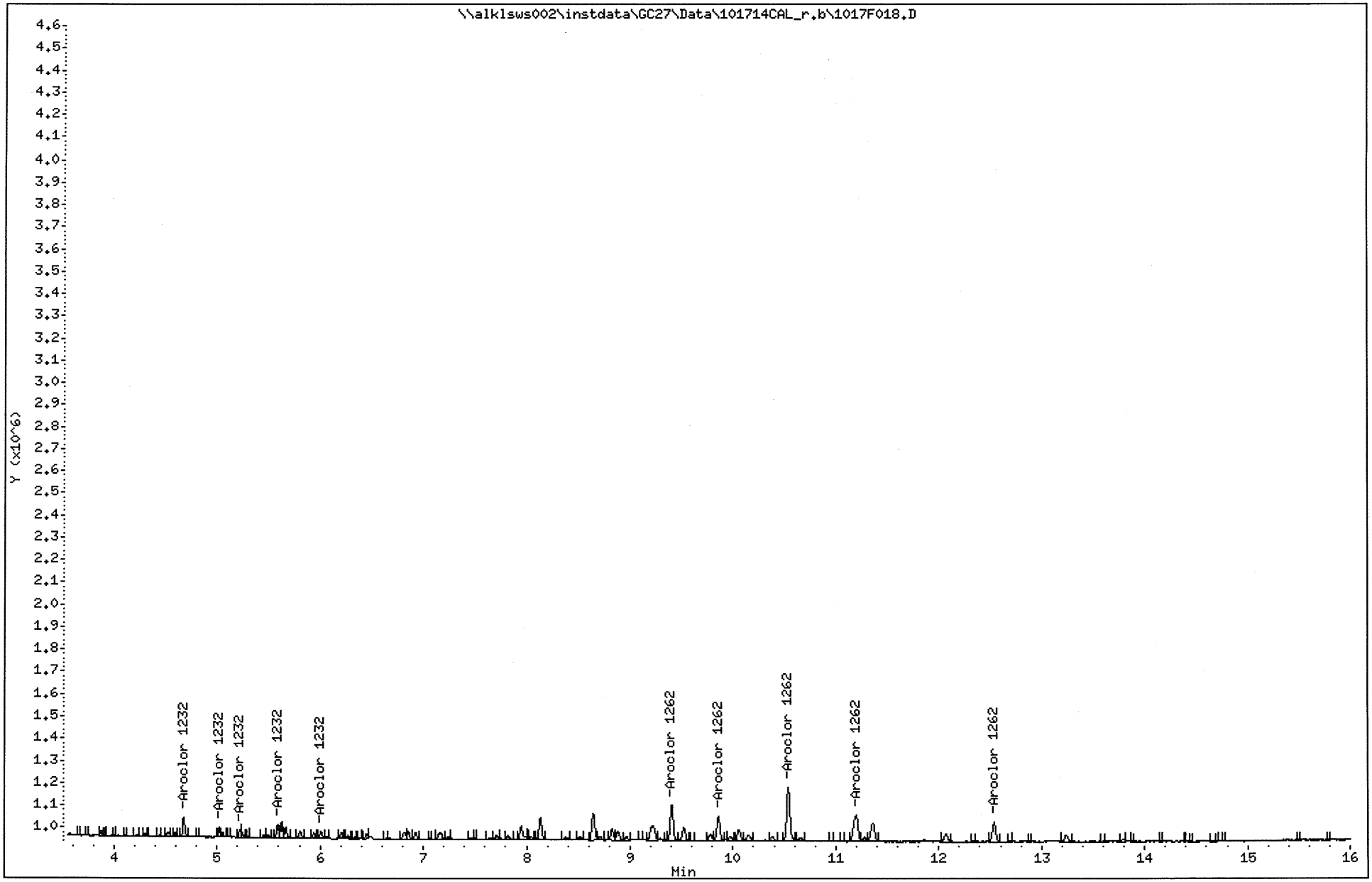
Column phase: DB-35MS

Column diameter: 0.32

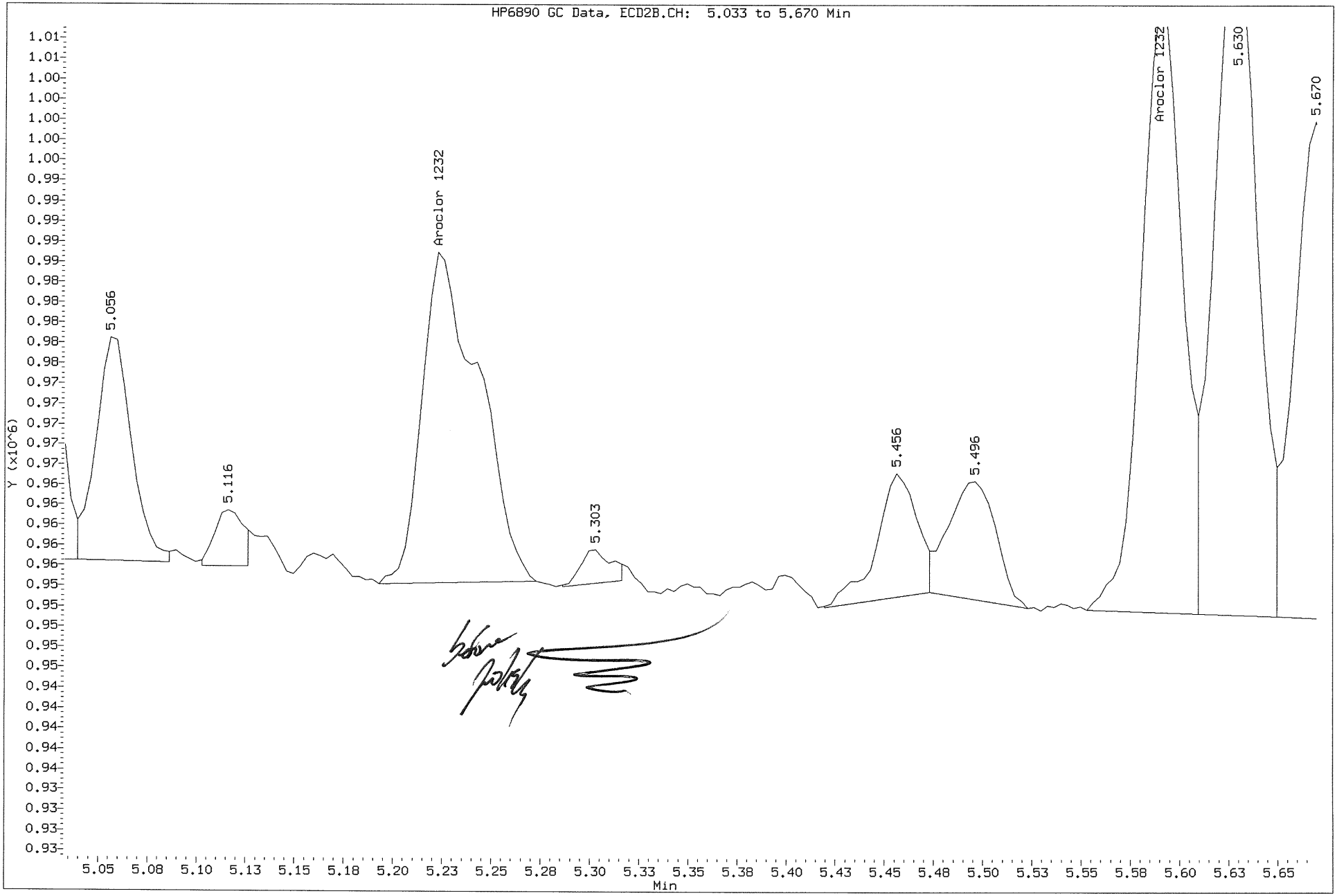


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

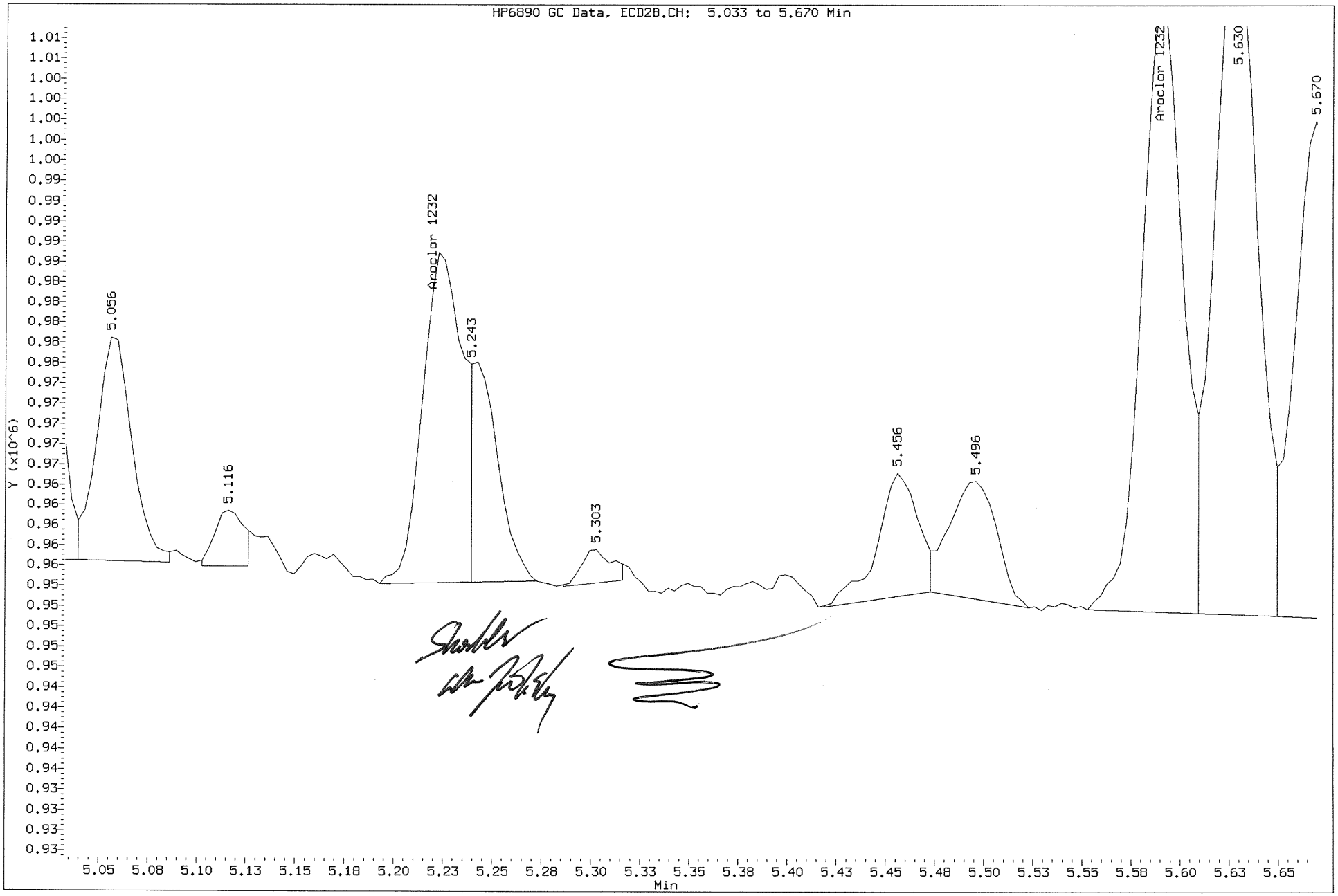
Instrument: GC27.i
Operator: JMSmith
Column phase: DB-XLB
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

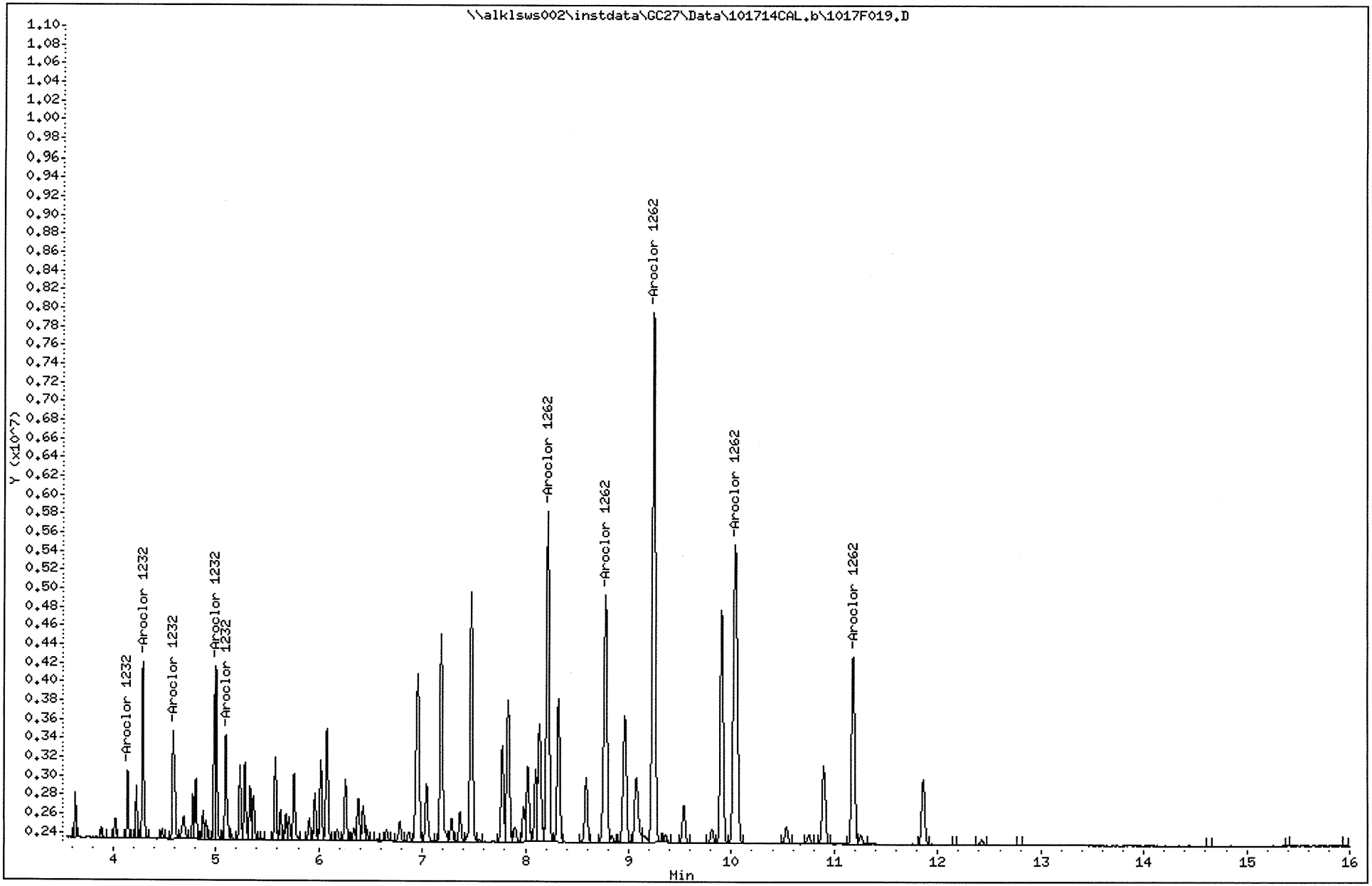
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

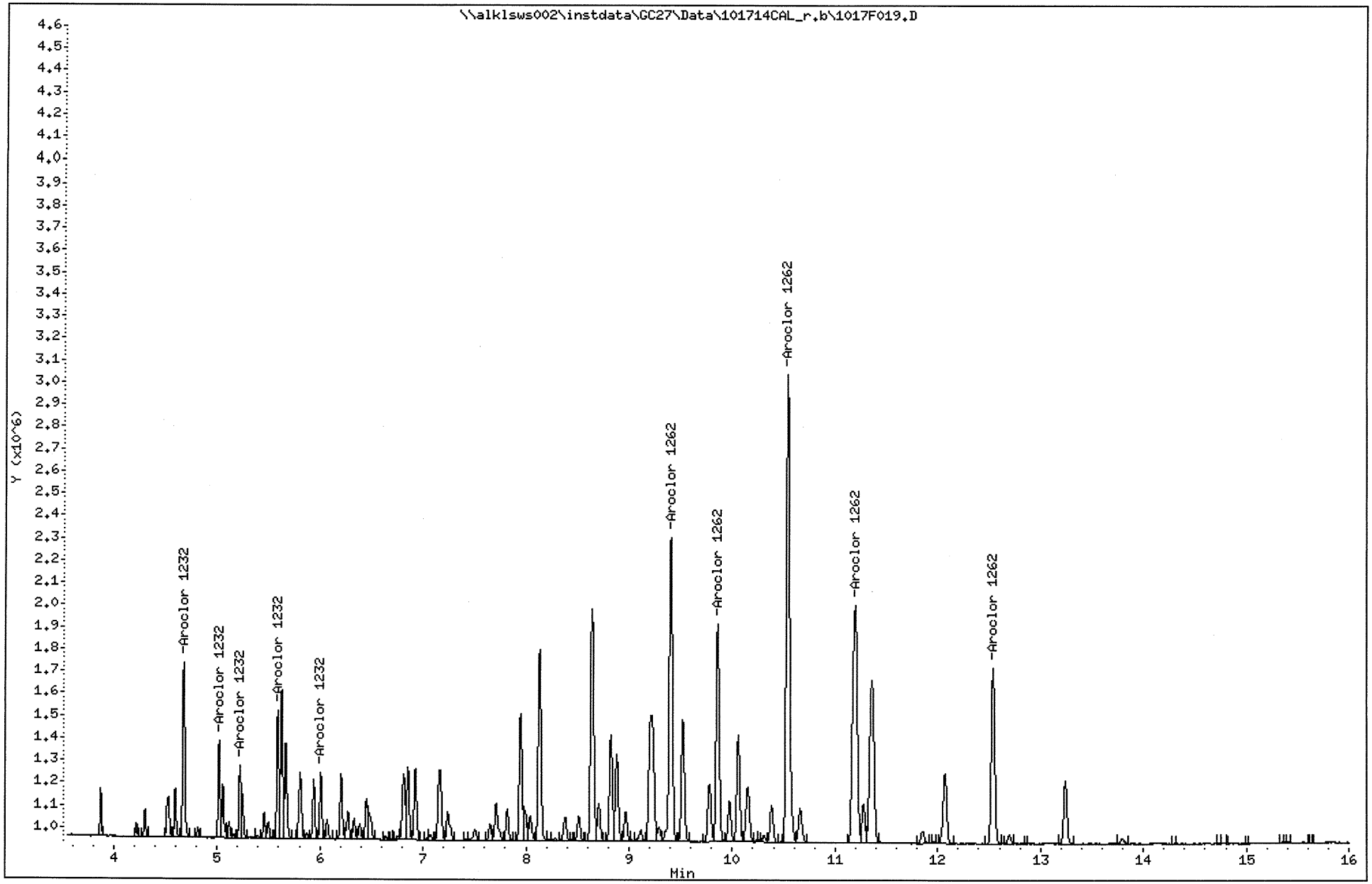


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

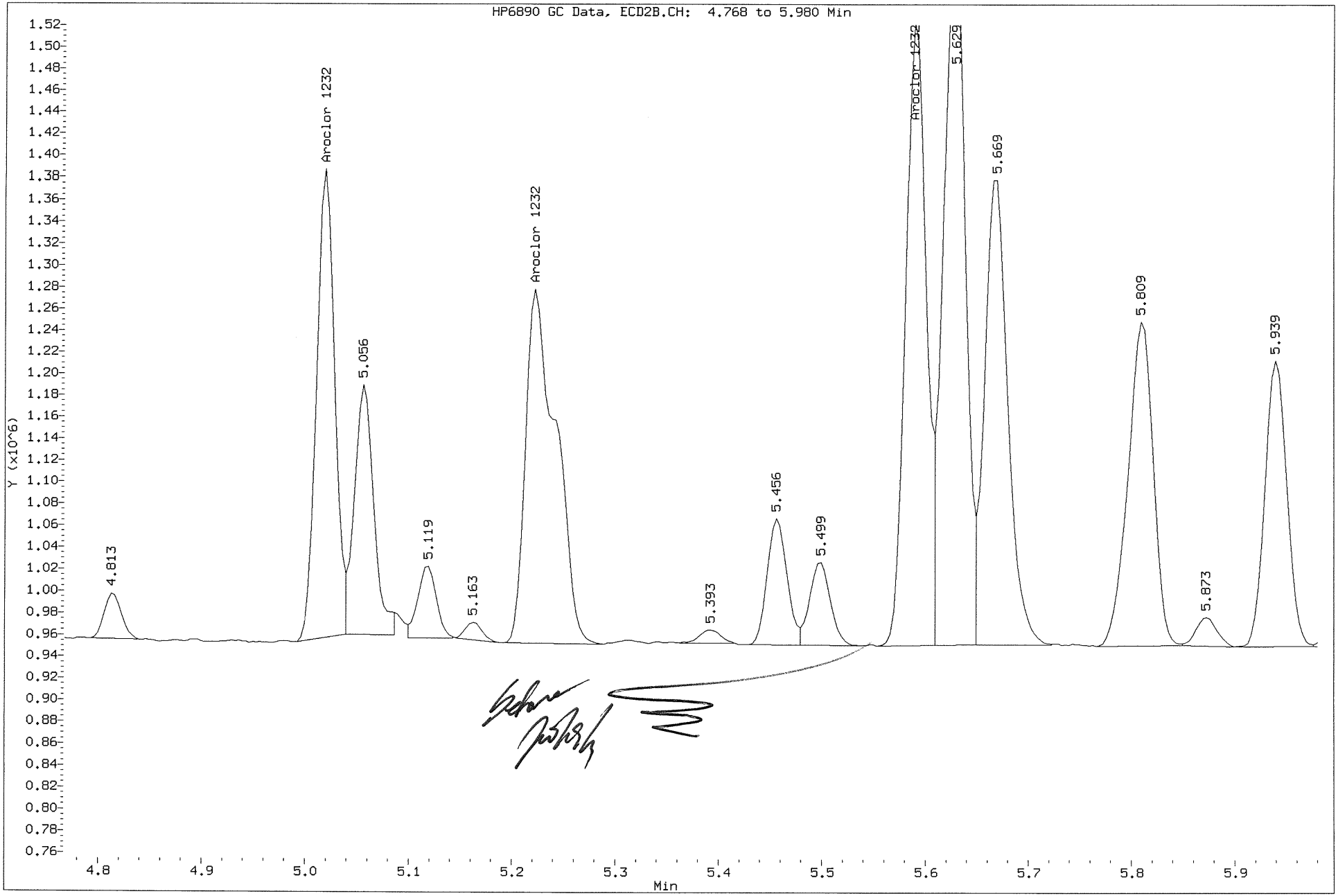
Column phase: DB-XLB

Instrument: GC27.i

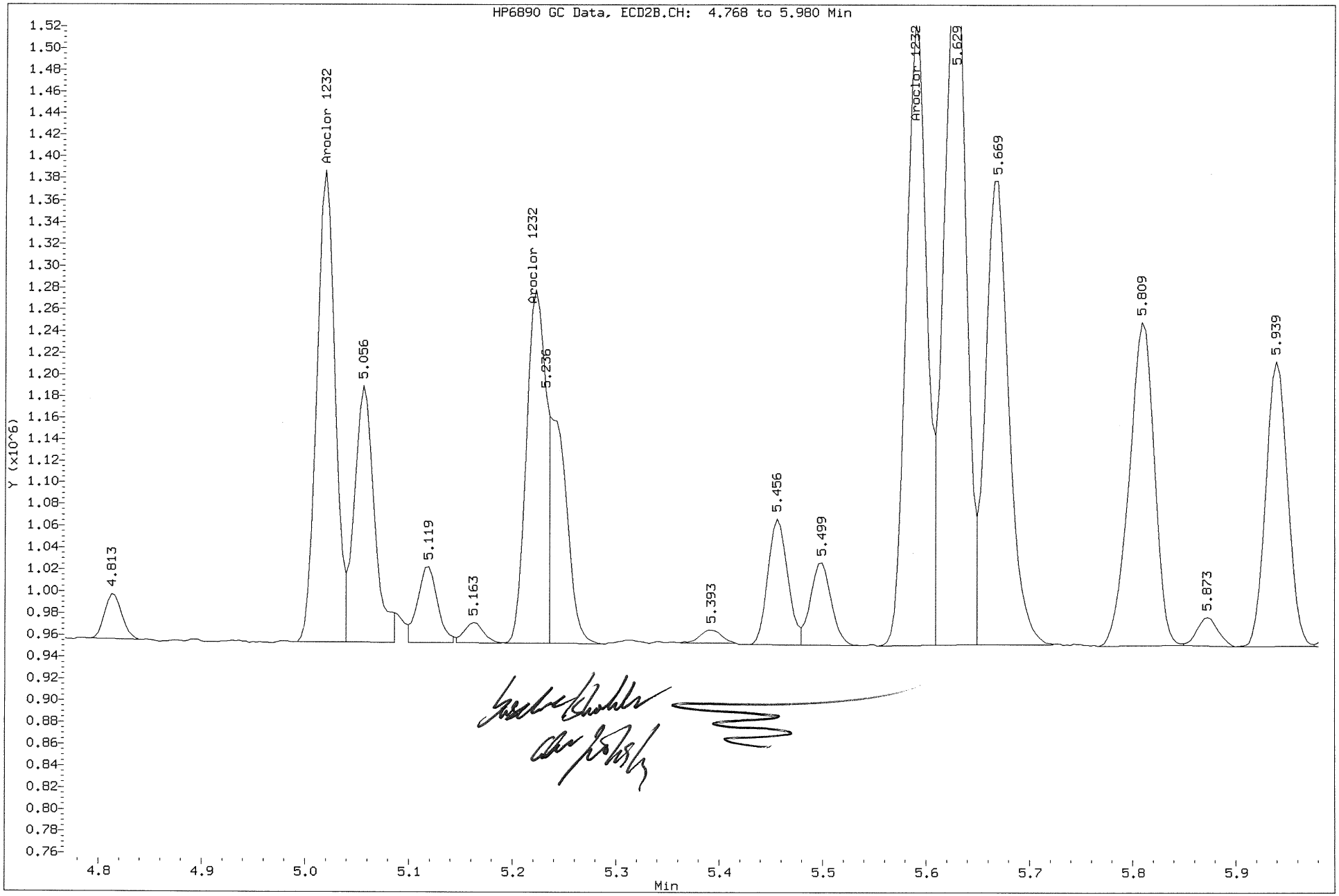
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

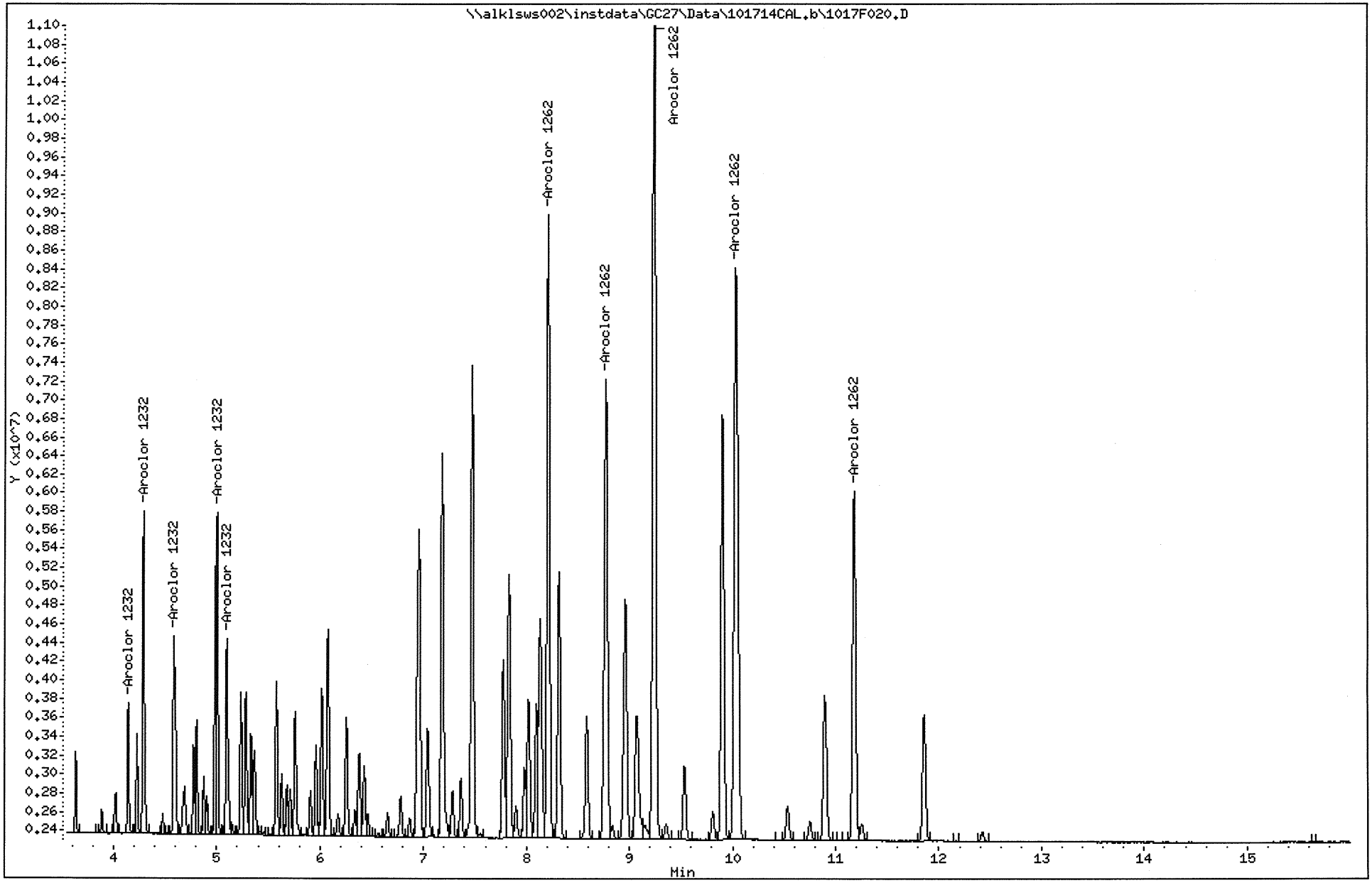
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

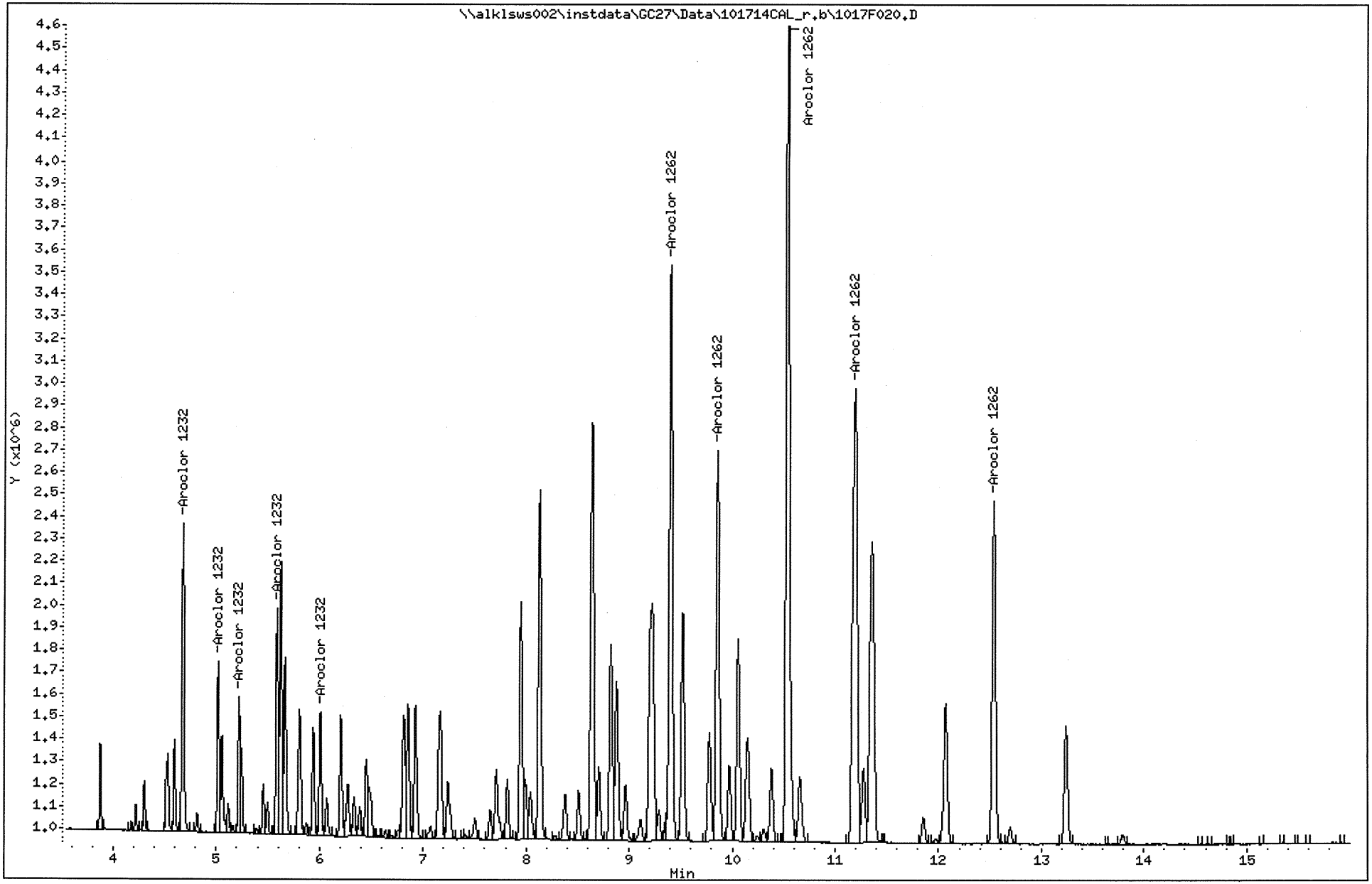


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

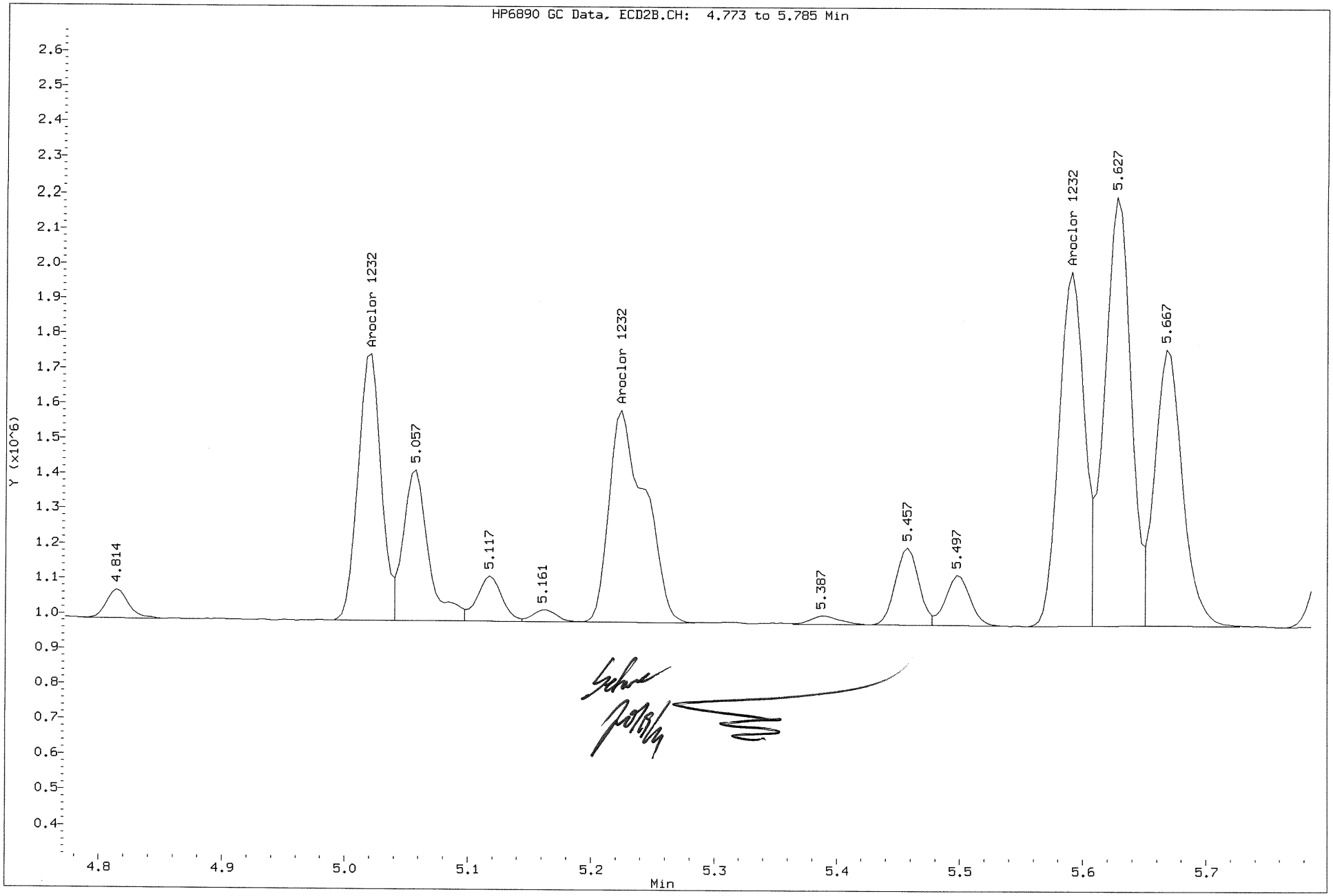
Column phase: DB-XLB

Instrument: GC27.i

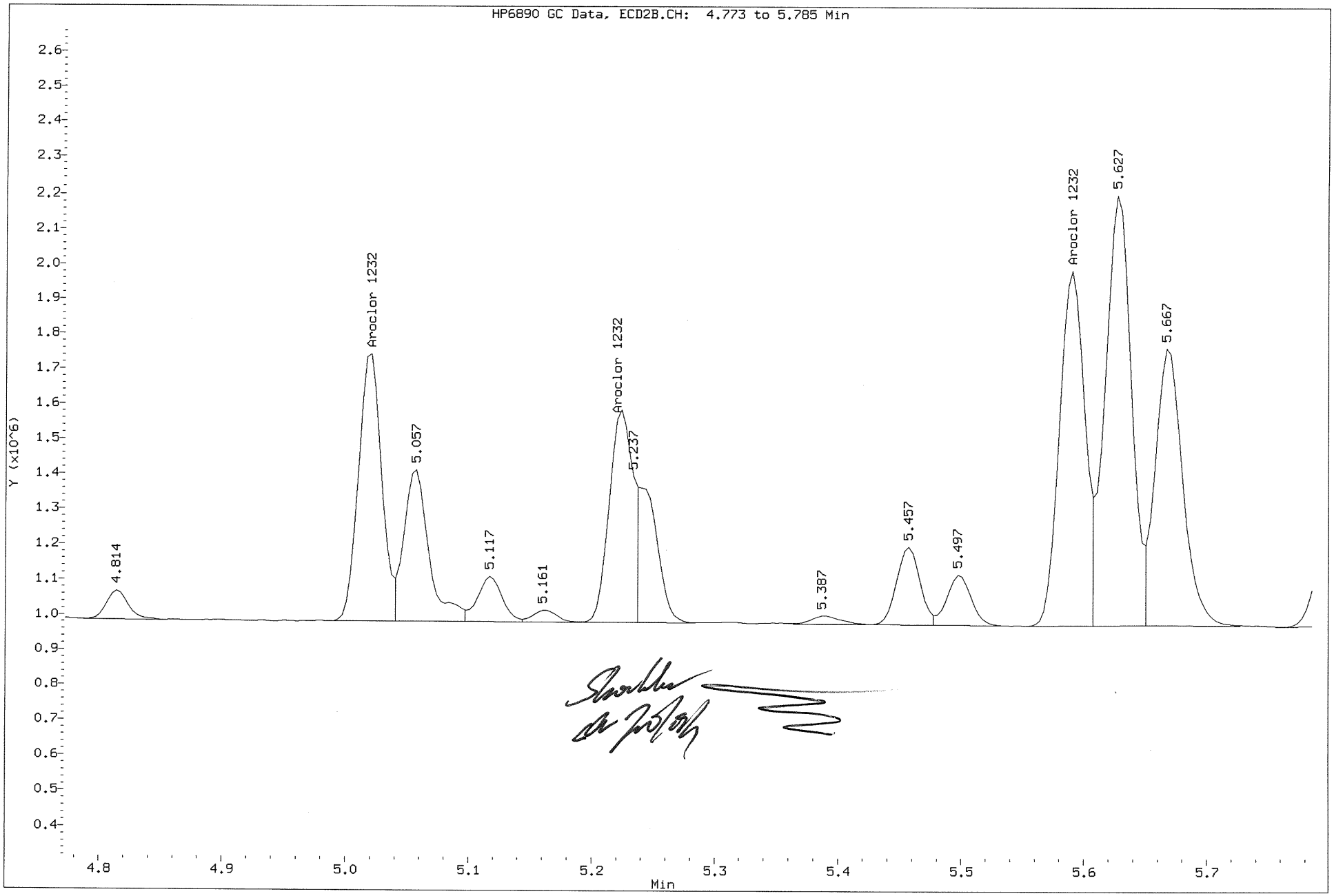
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

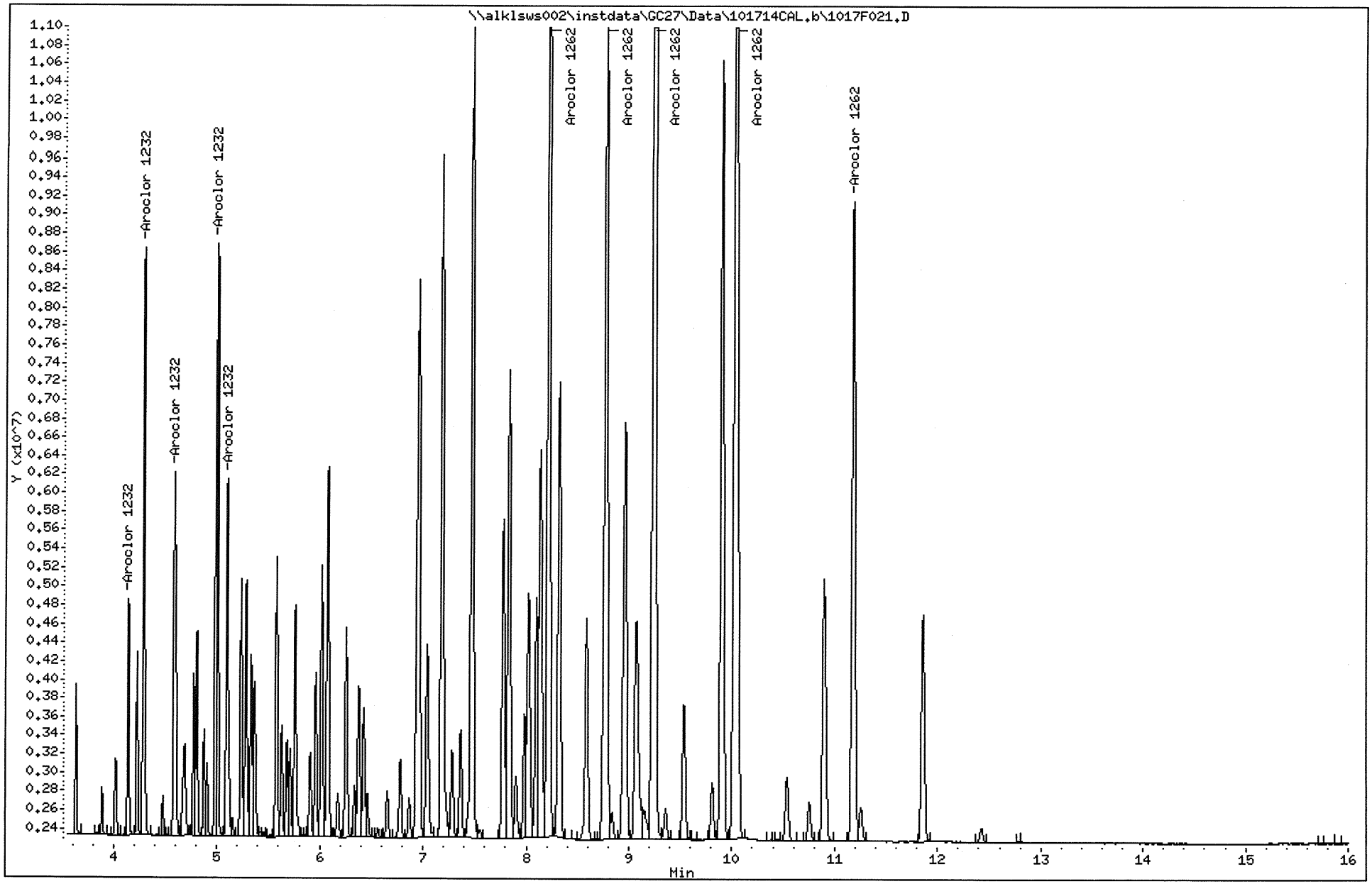
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



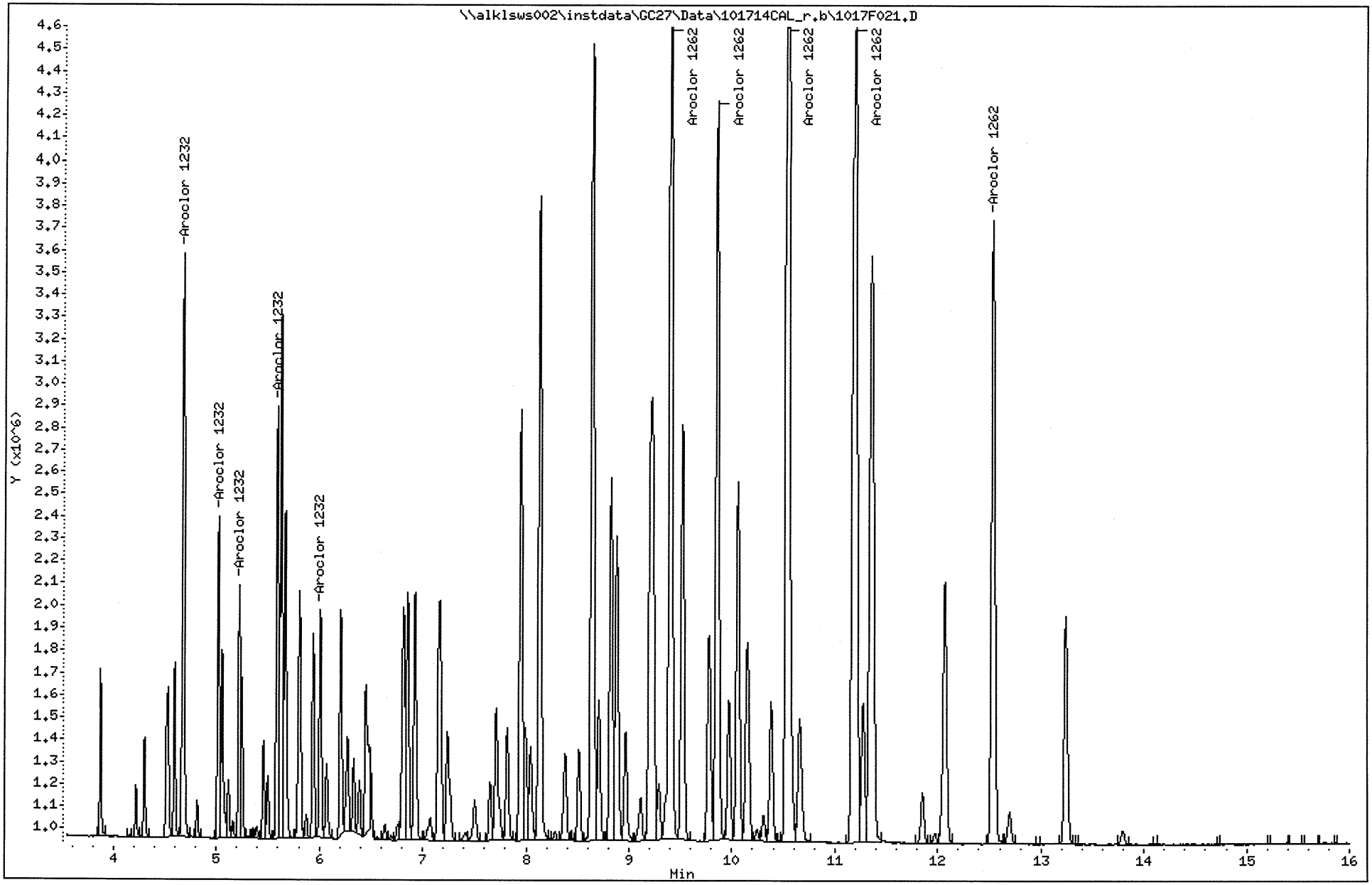
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Instrument: GC27.i

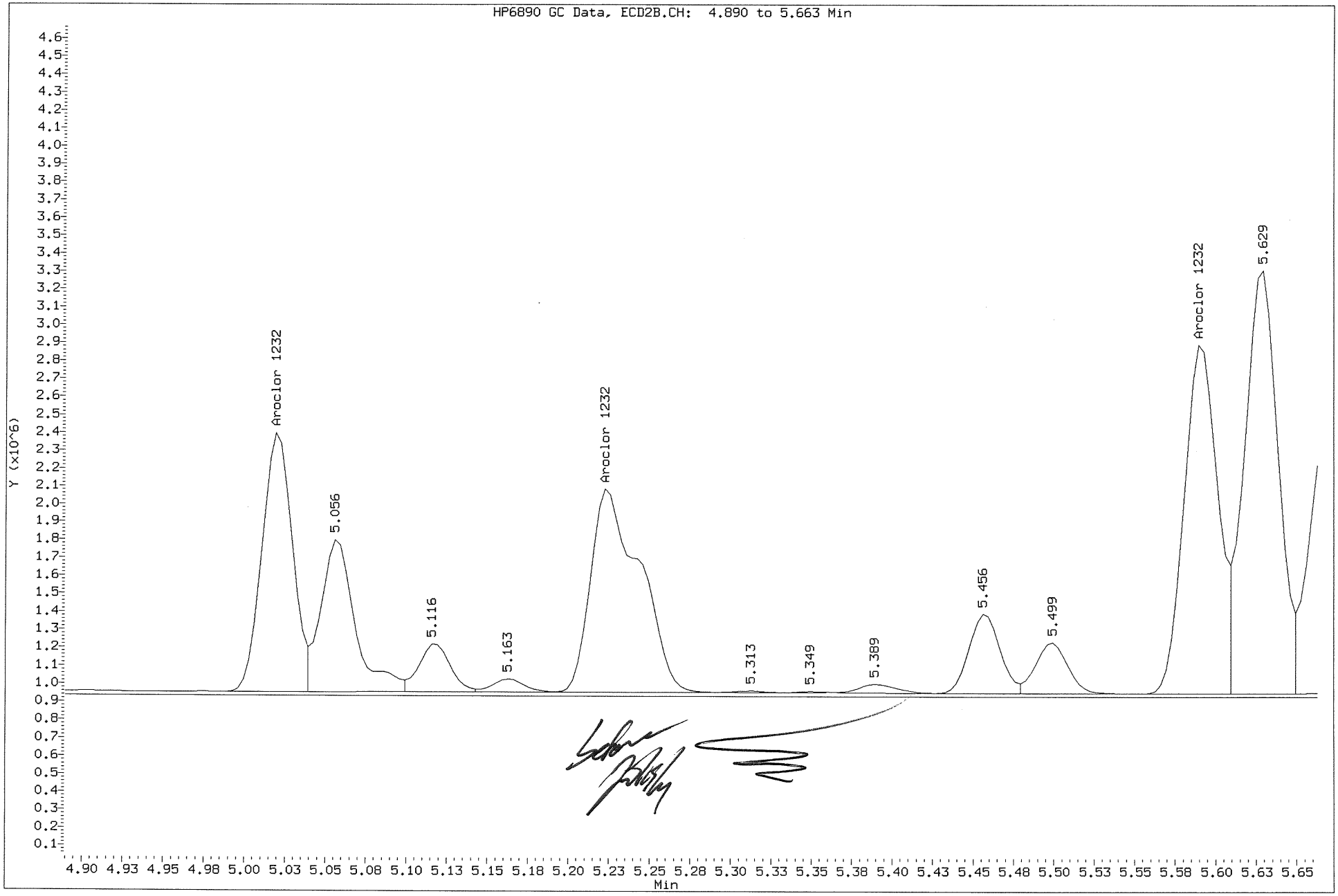
Operator: JMSmith

Column phase: DB-XLB

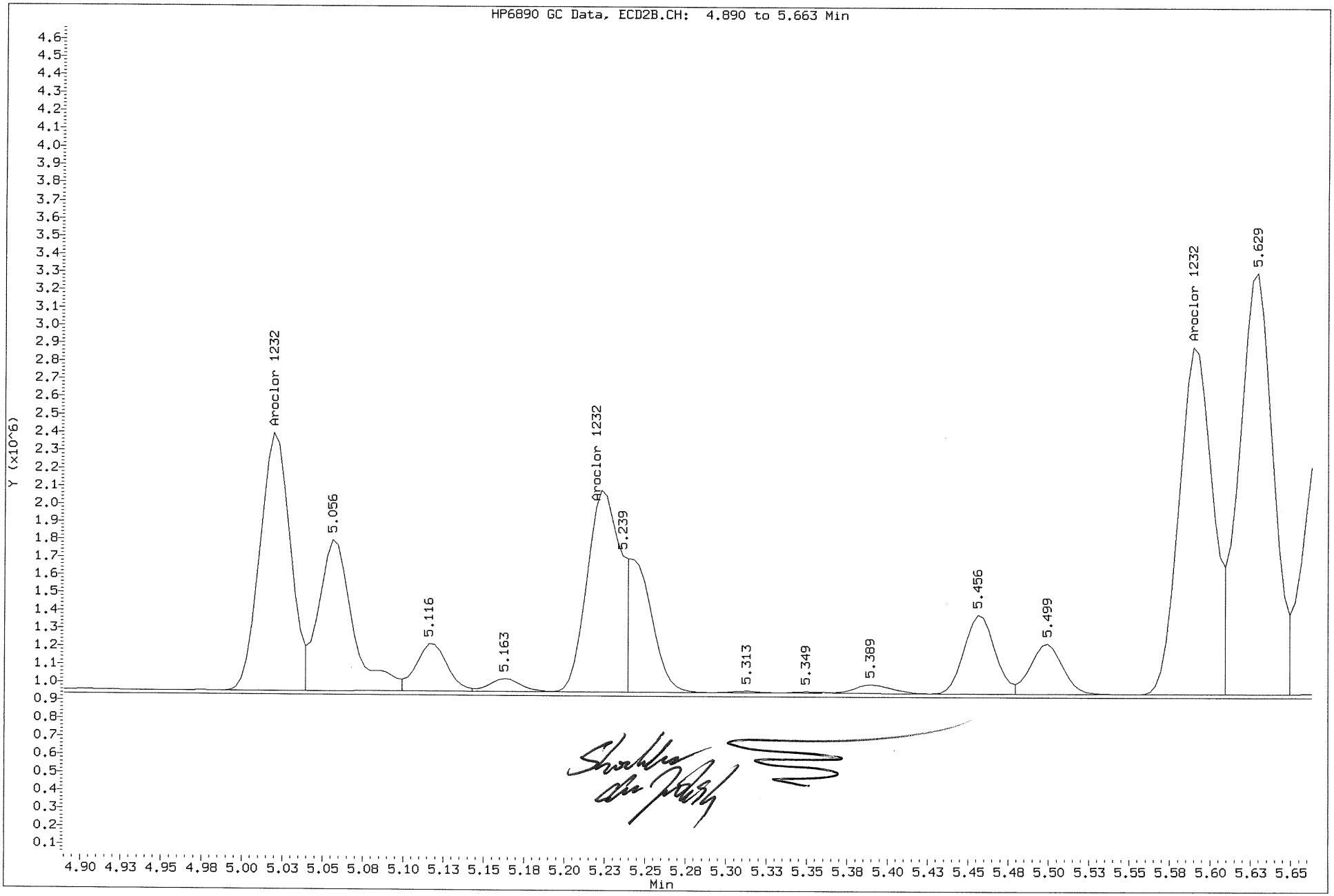
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

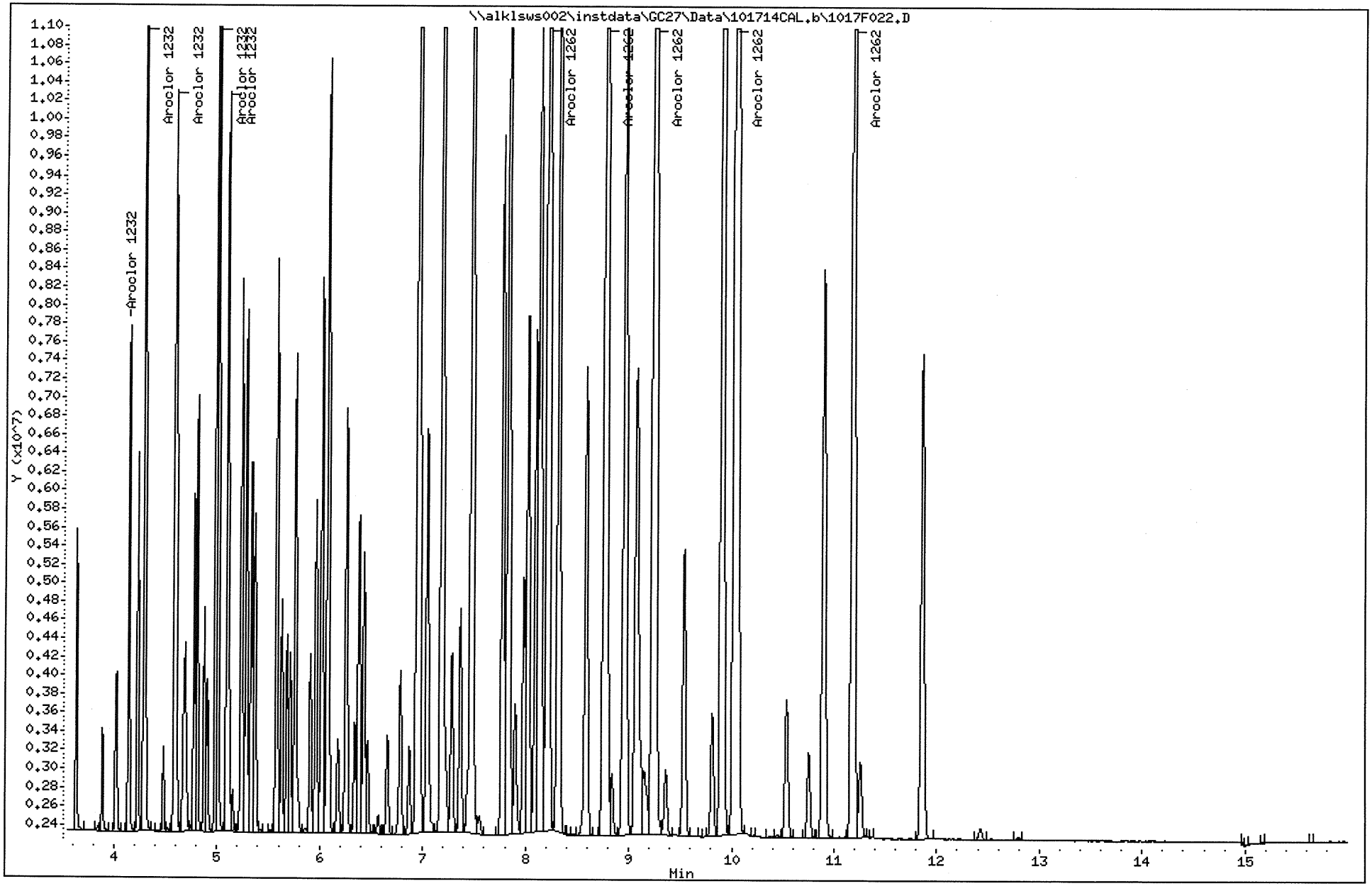
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



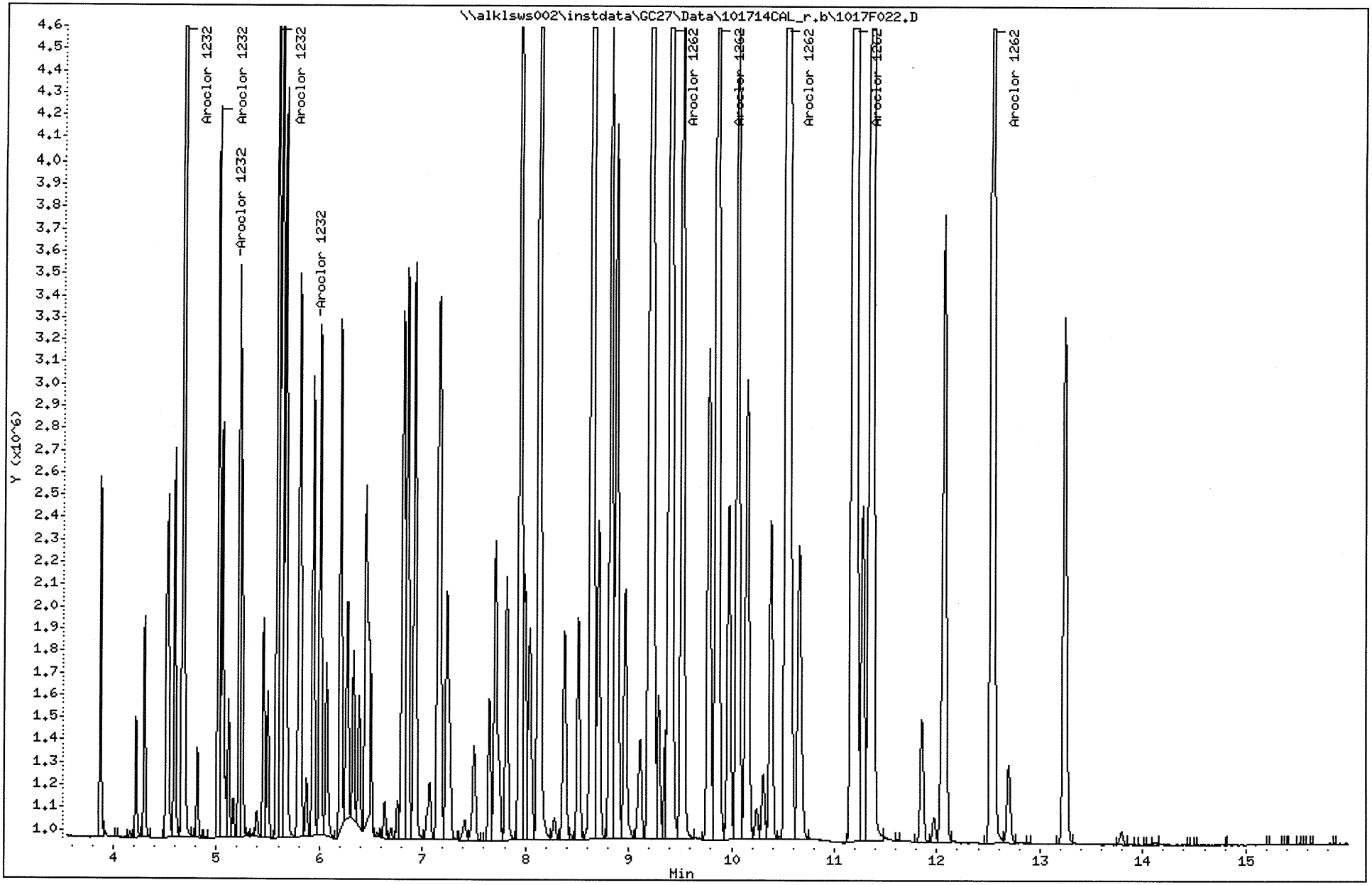
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

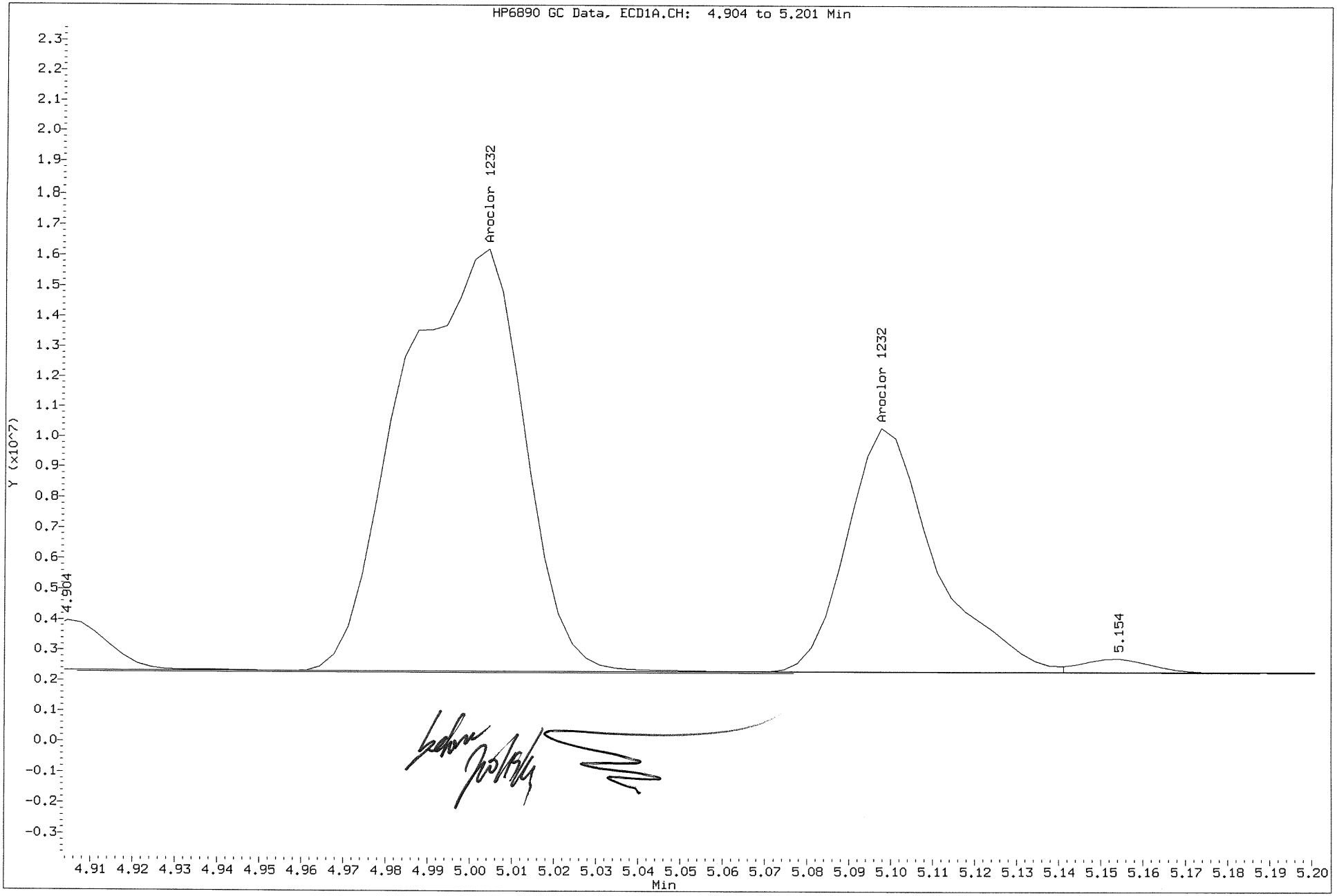
Operator: JMSmith

Column phase: DB-XLB

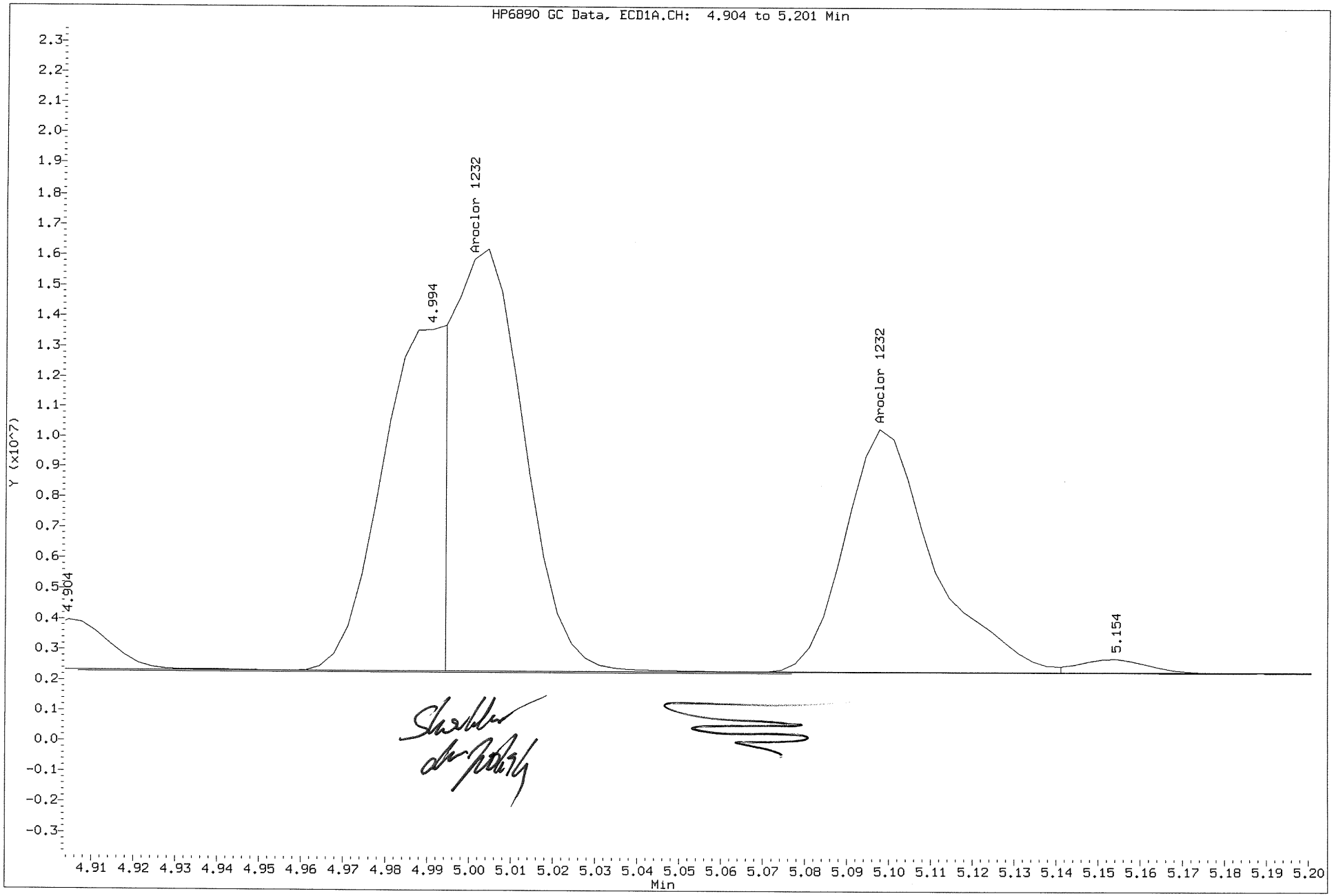
Column diameter: 0.32



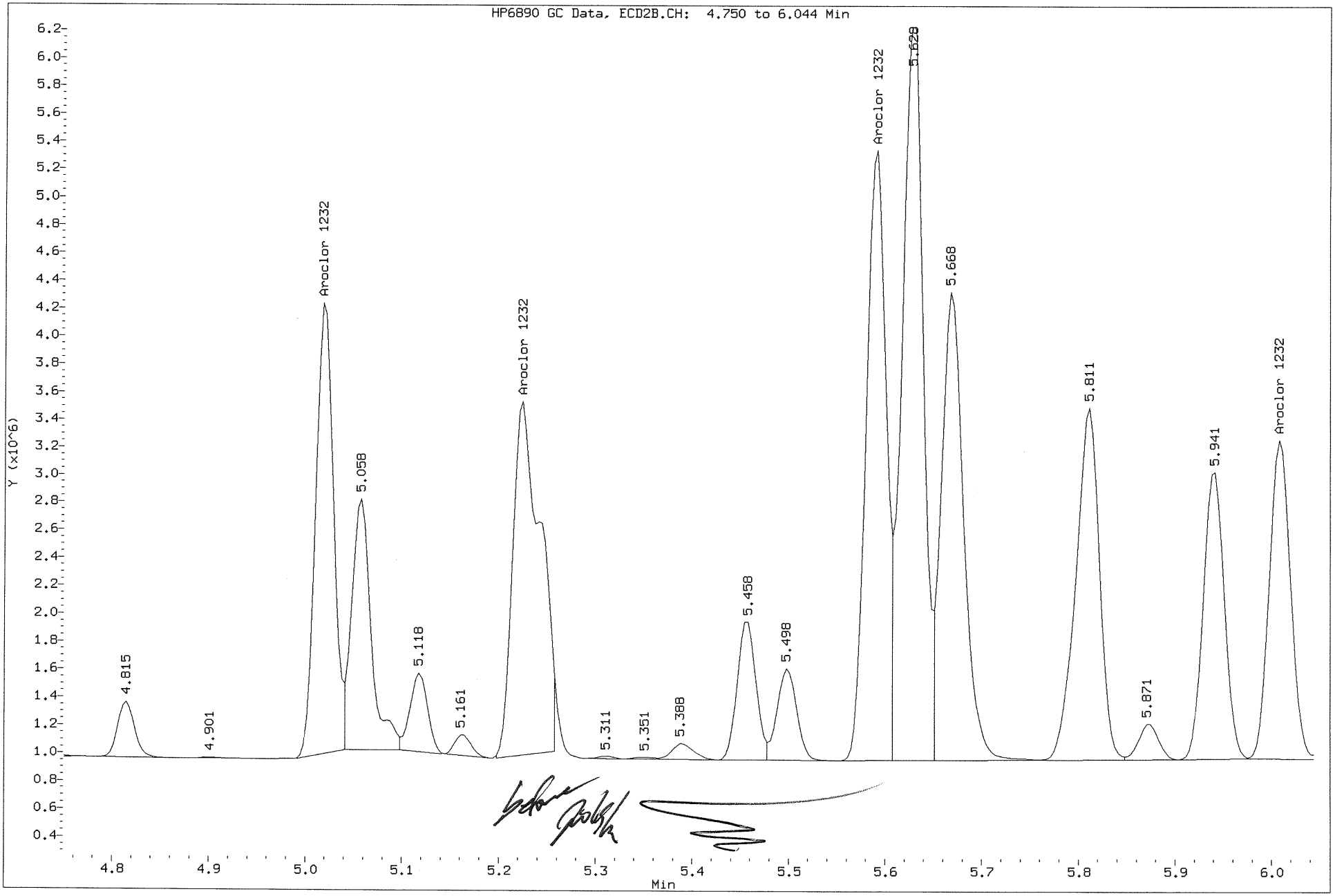
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



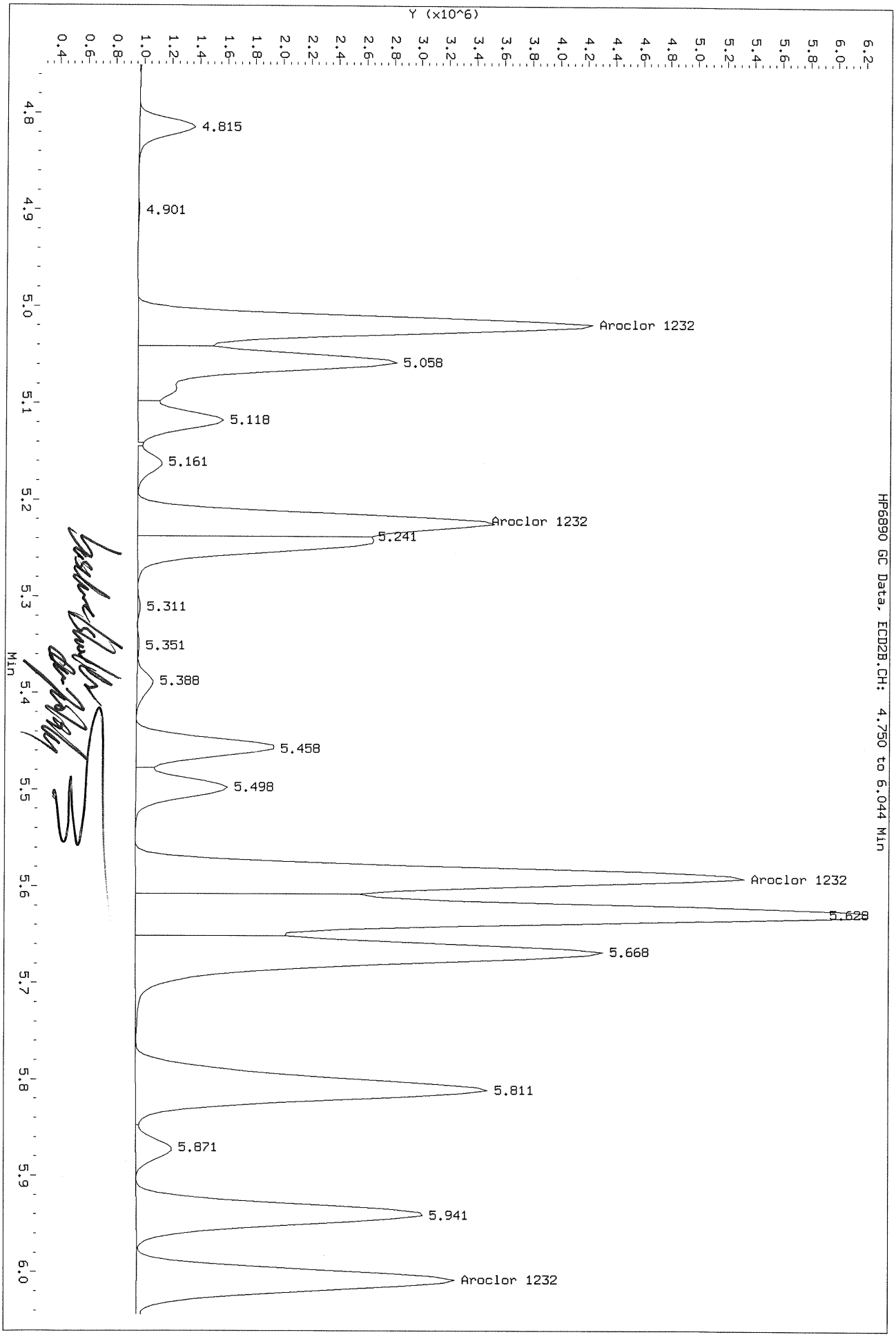
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.750 to 6.044 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

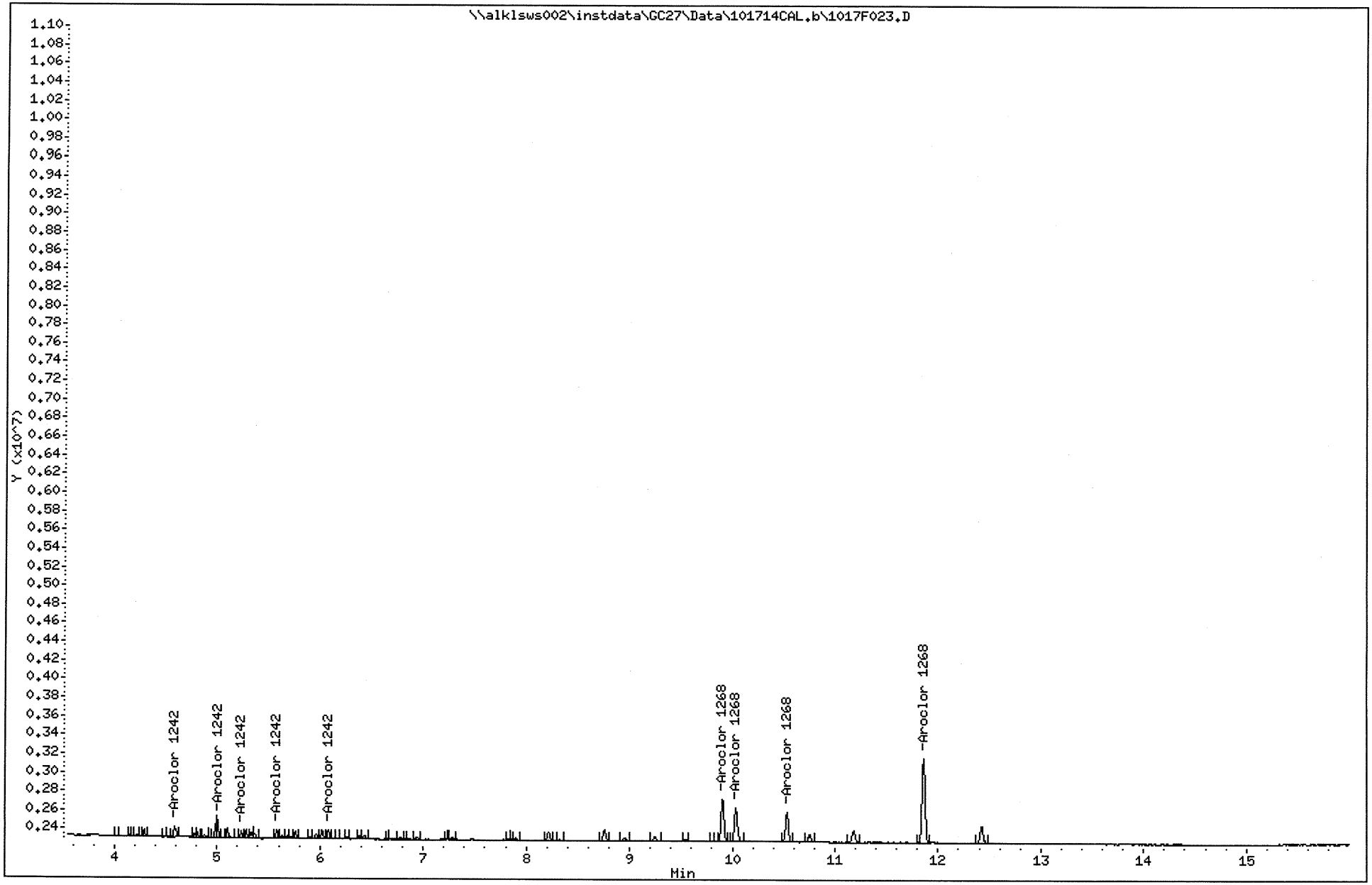
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



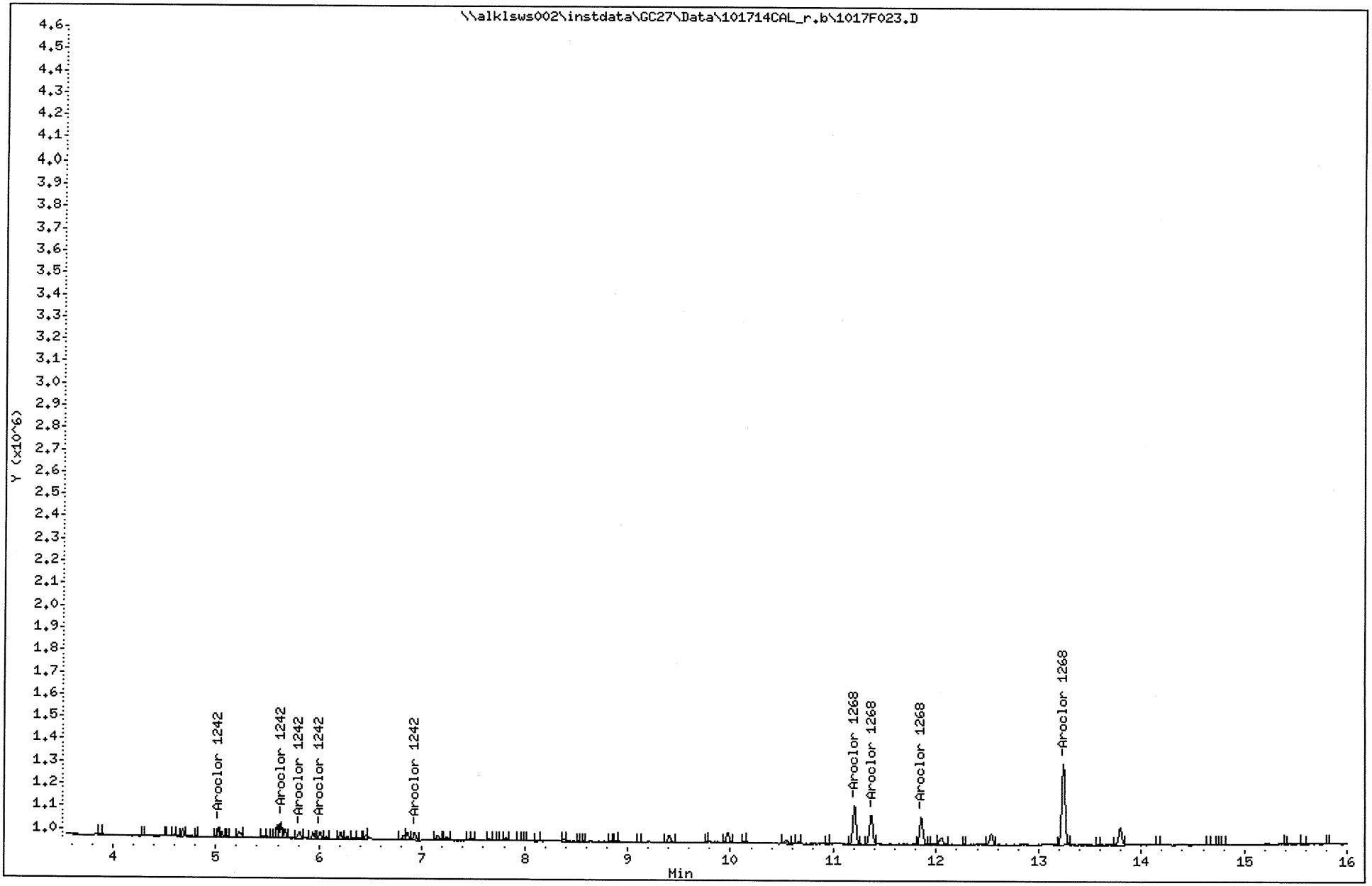
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
		Average of Peak Amounts =			56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
		Average of Peak Amounts =			59.0	52.4		

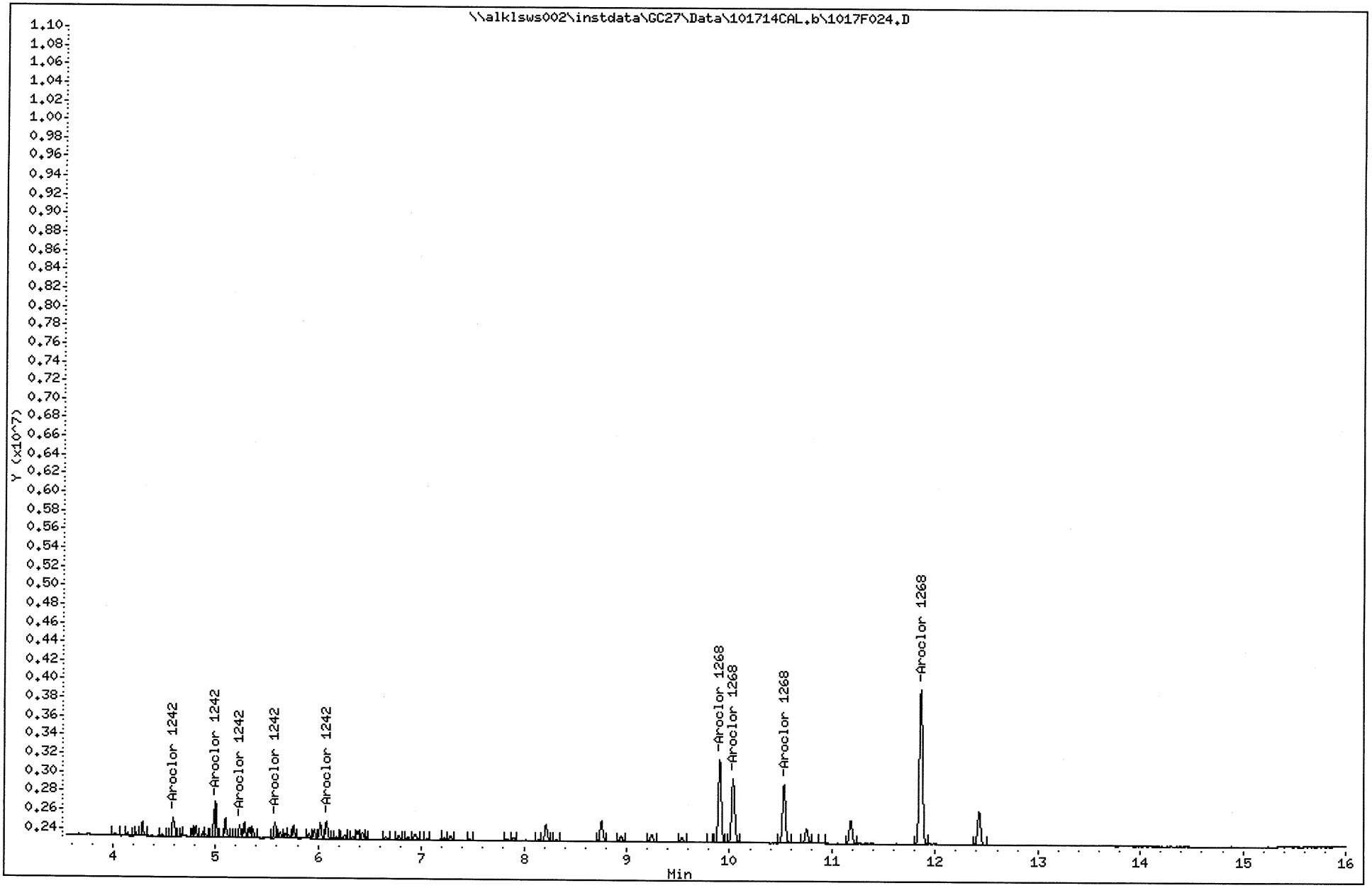
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



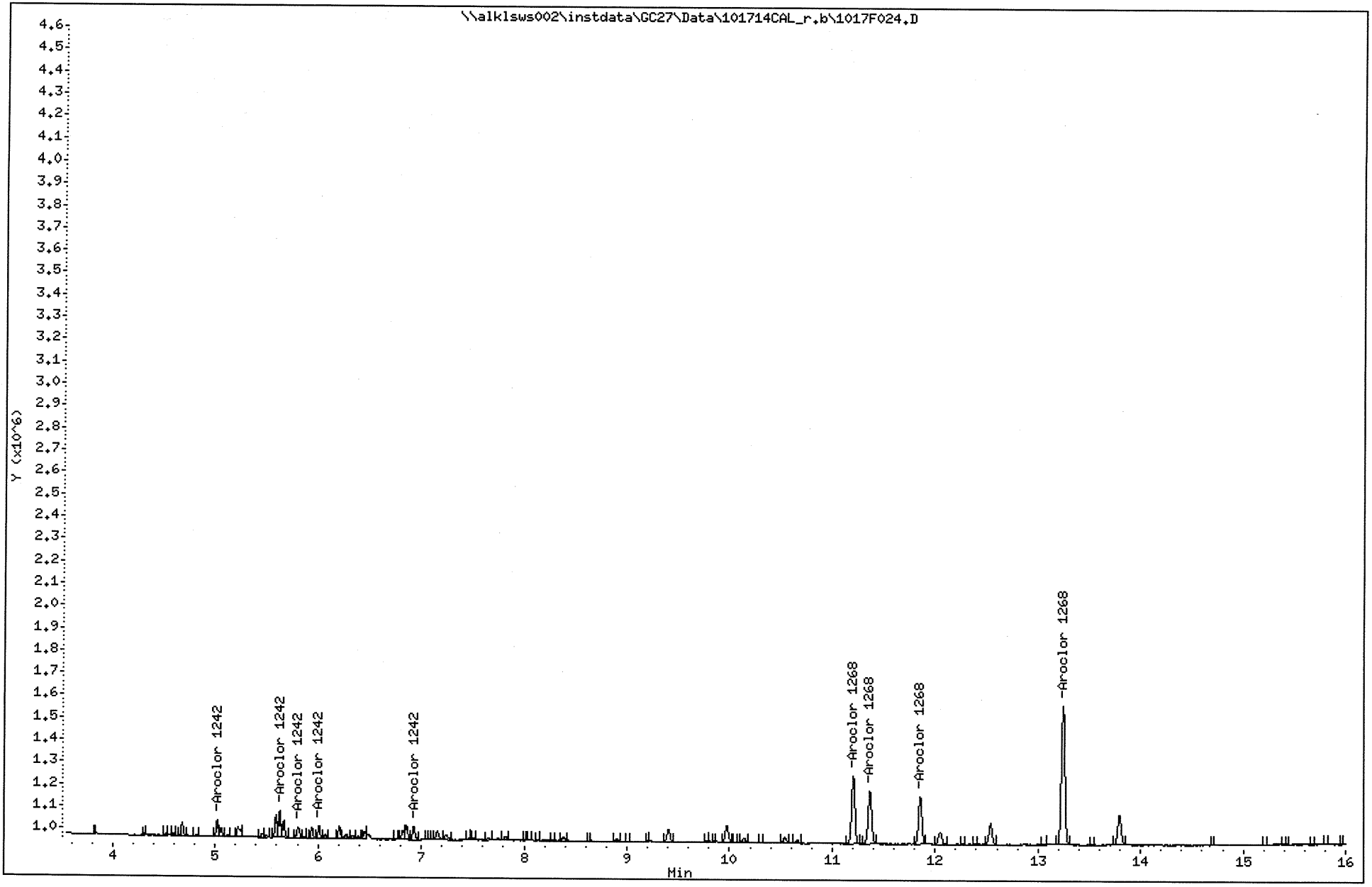
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

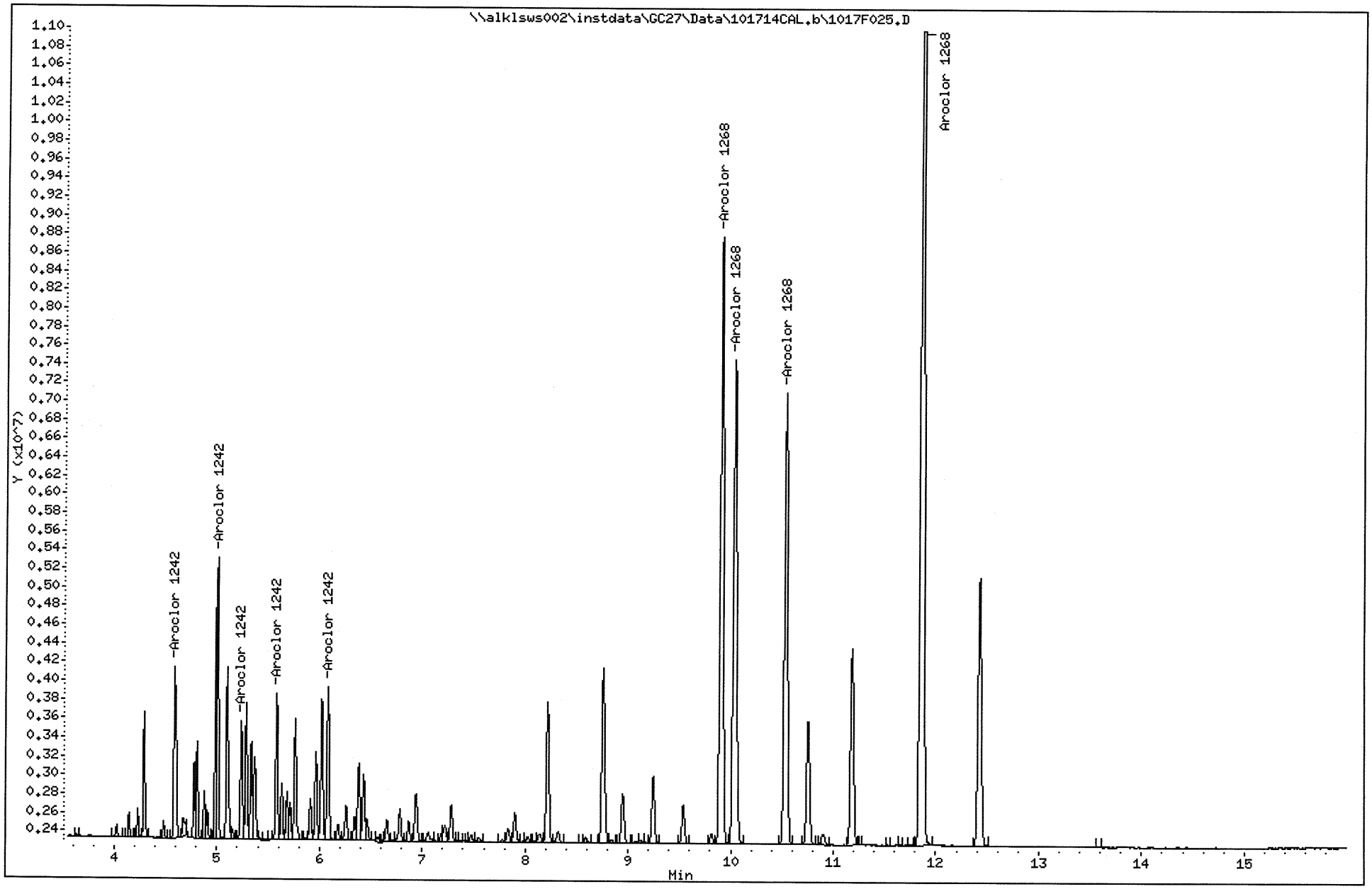
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



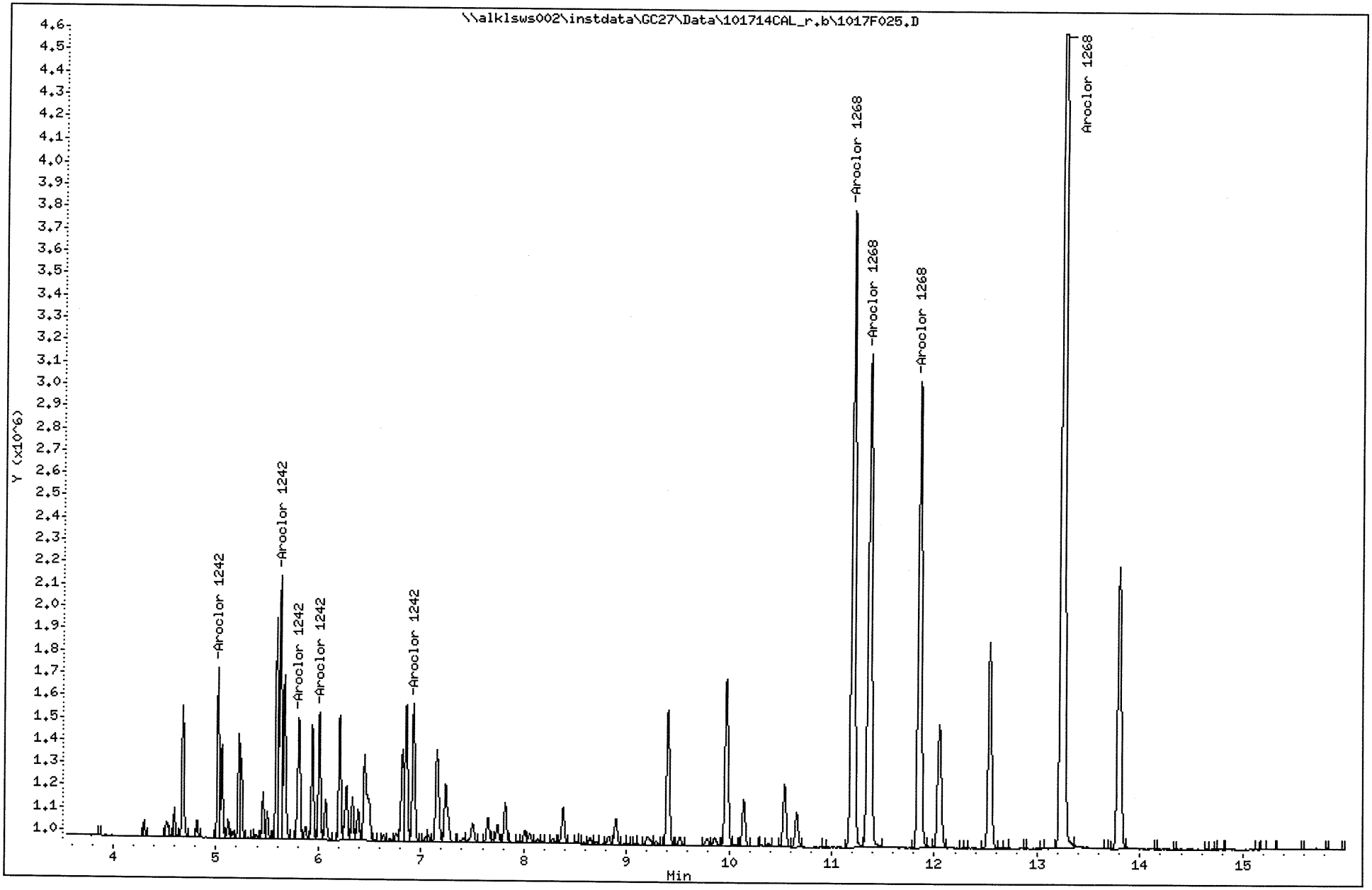
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

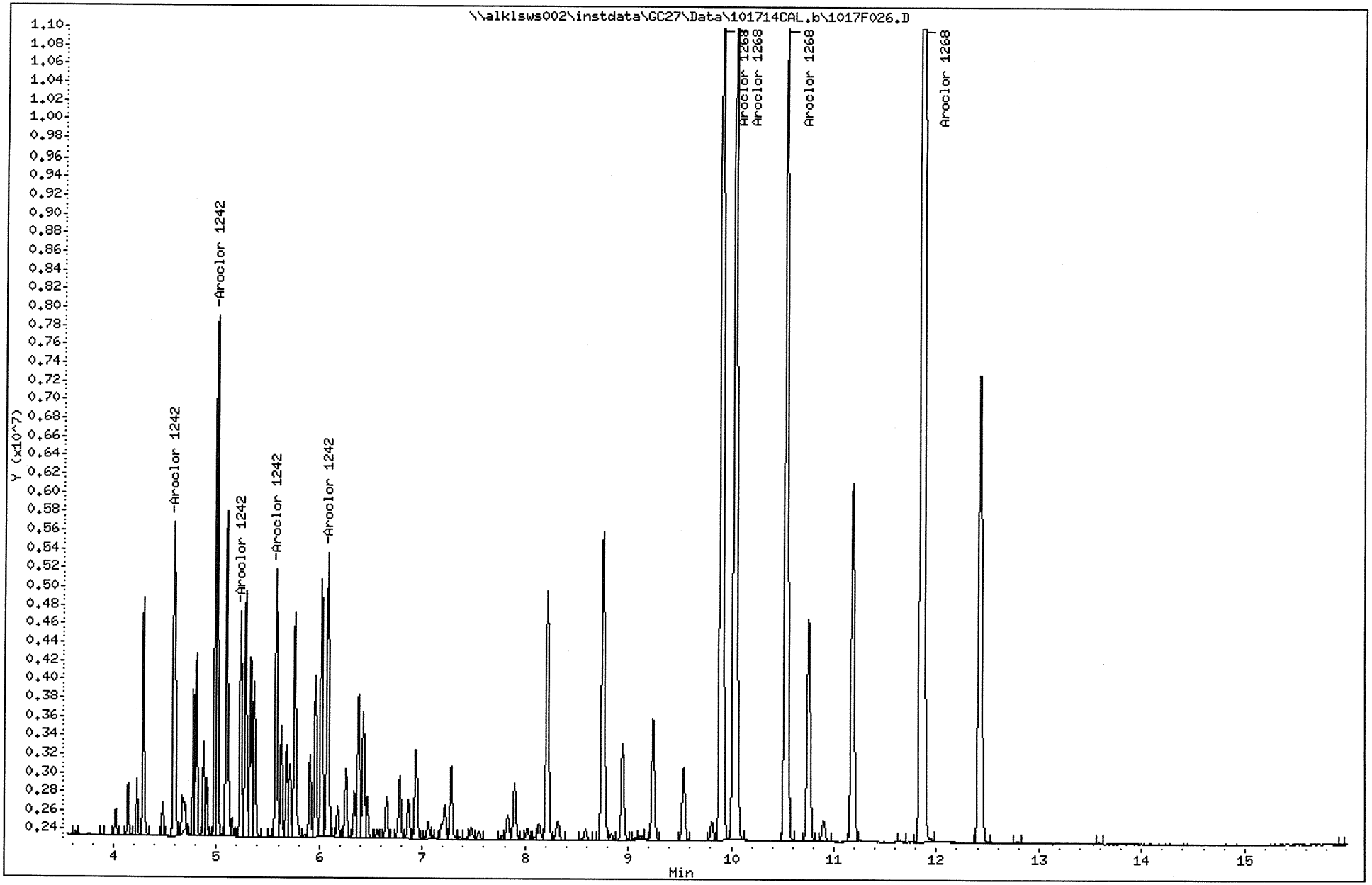
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



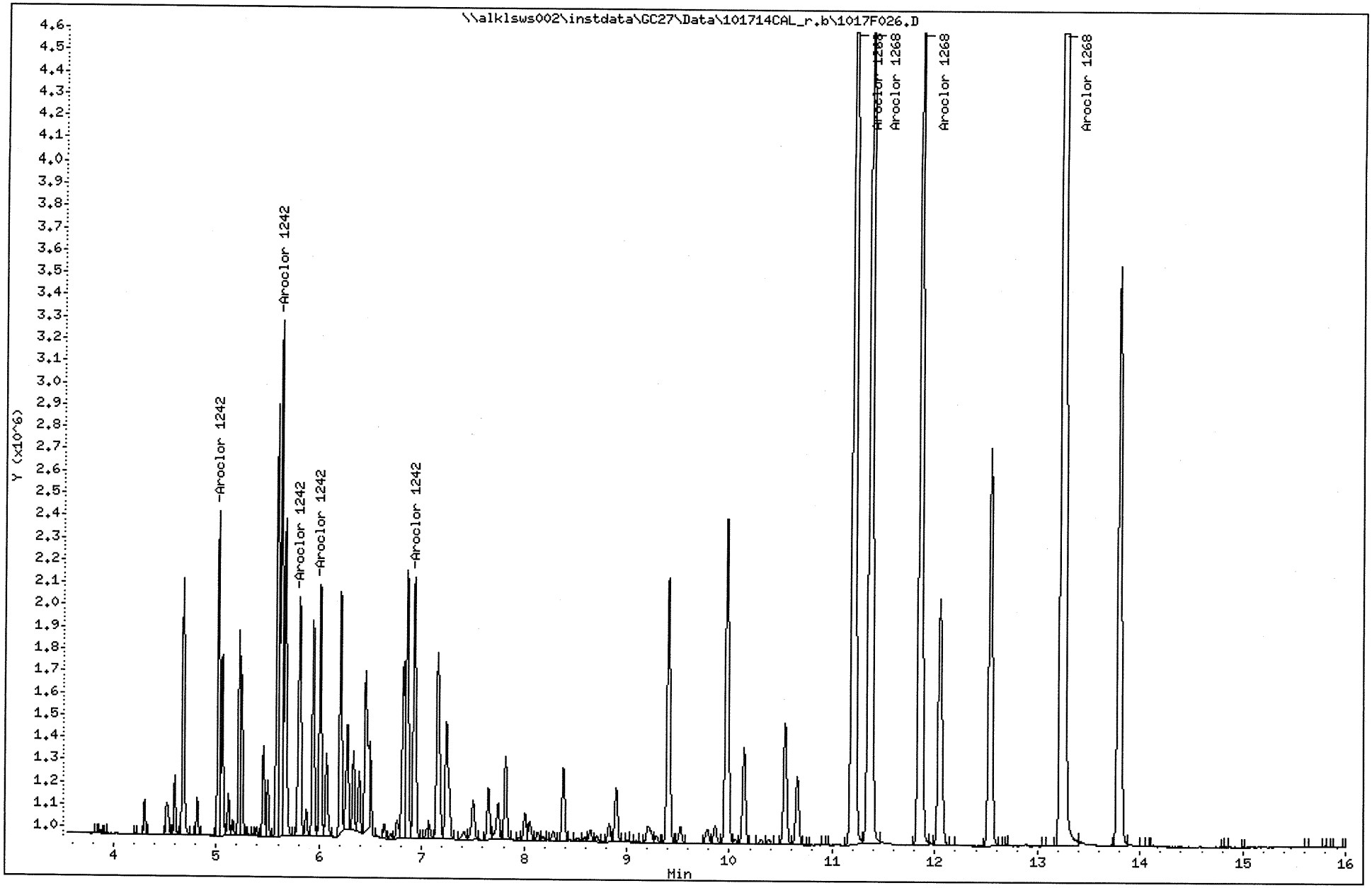
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

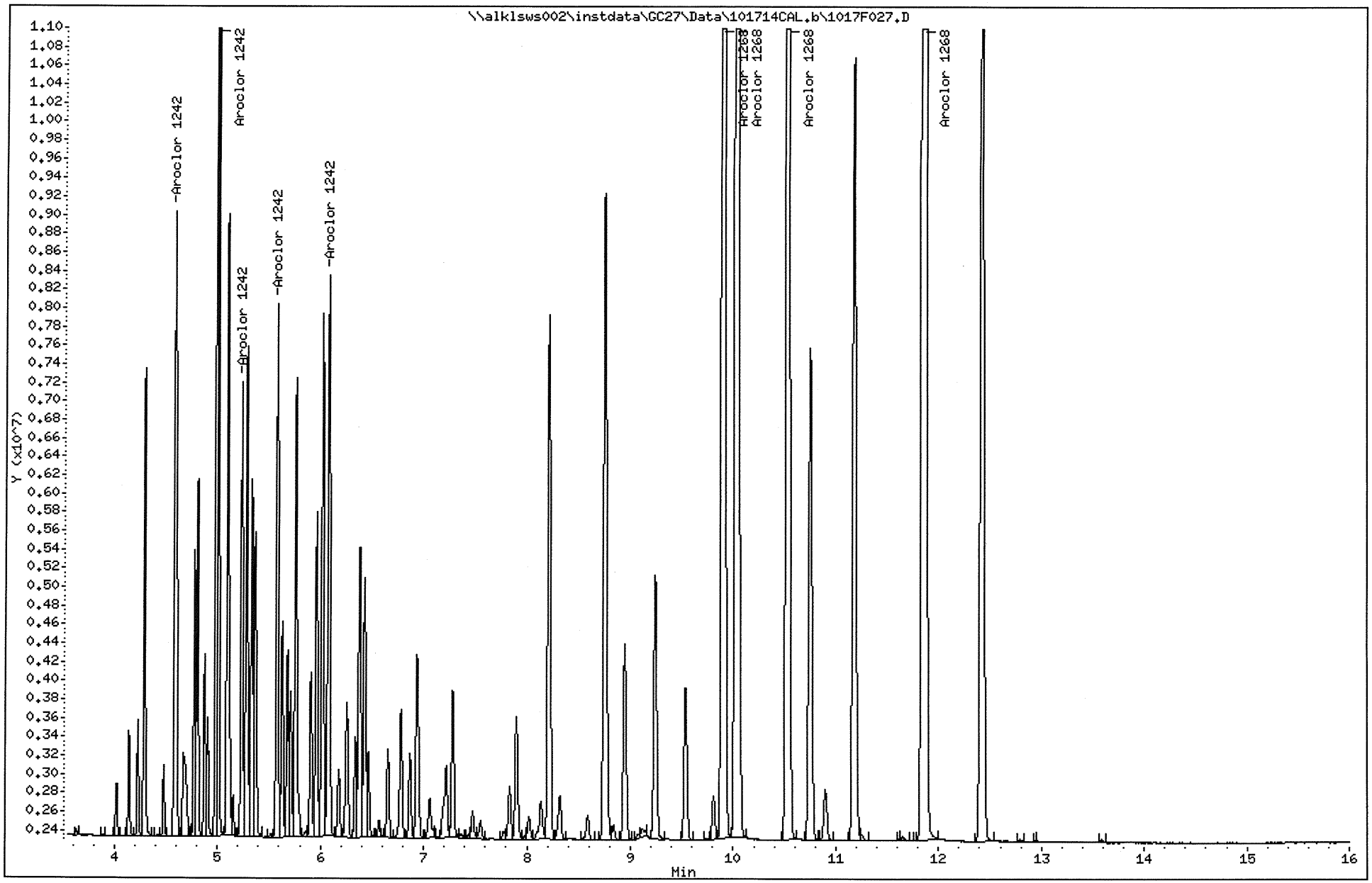
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



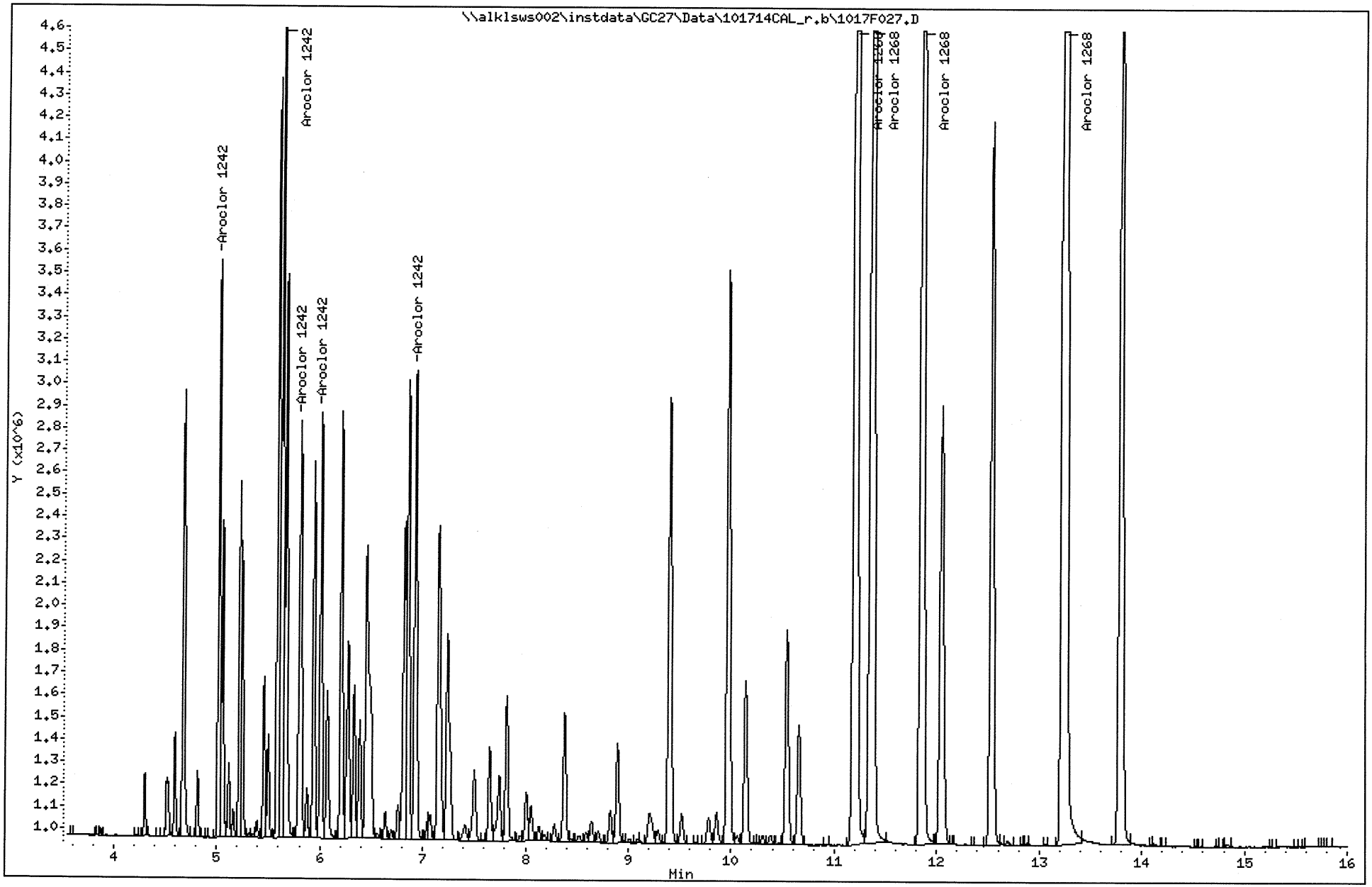
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

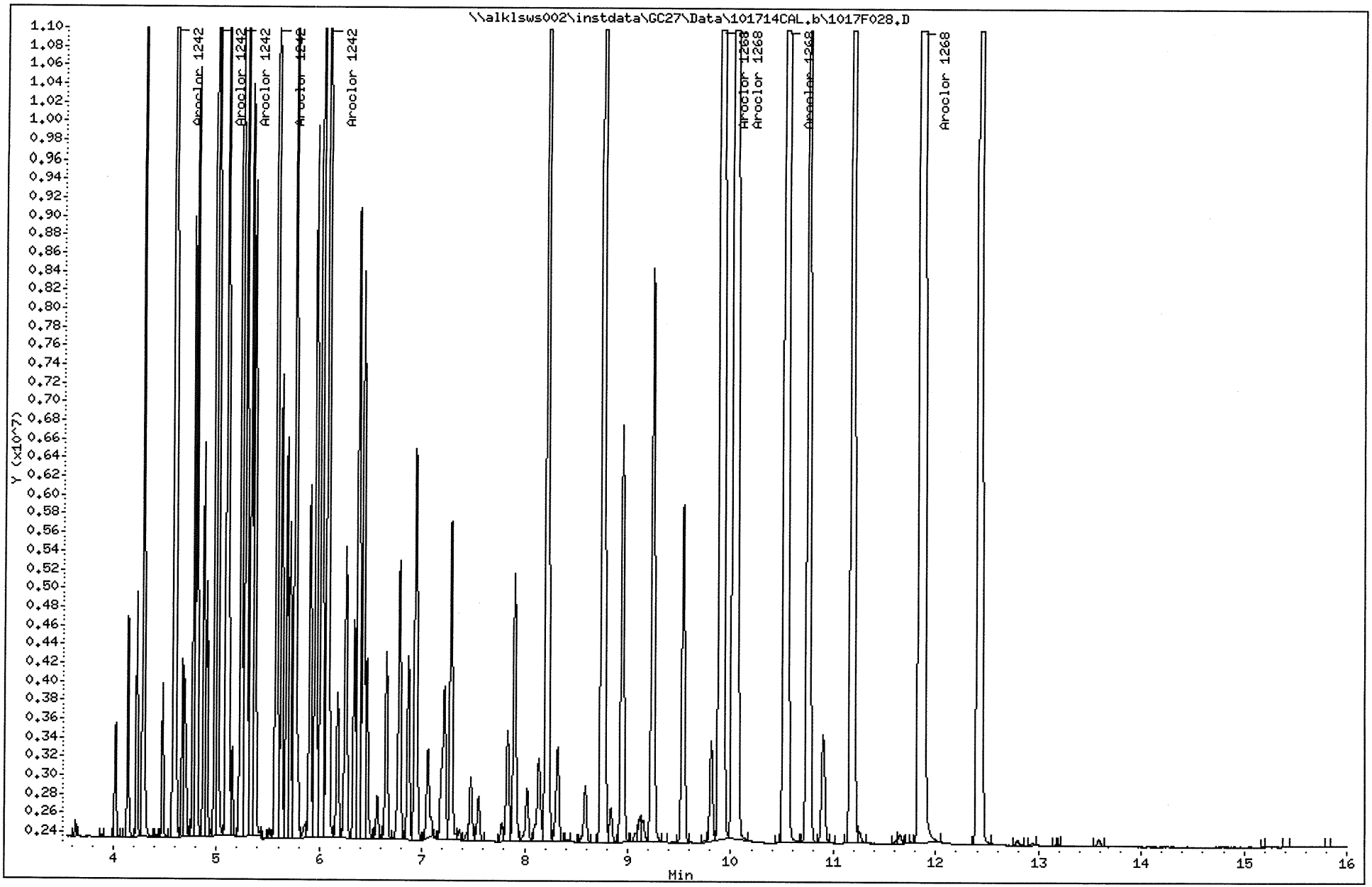
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



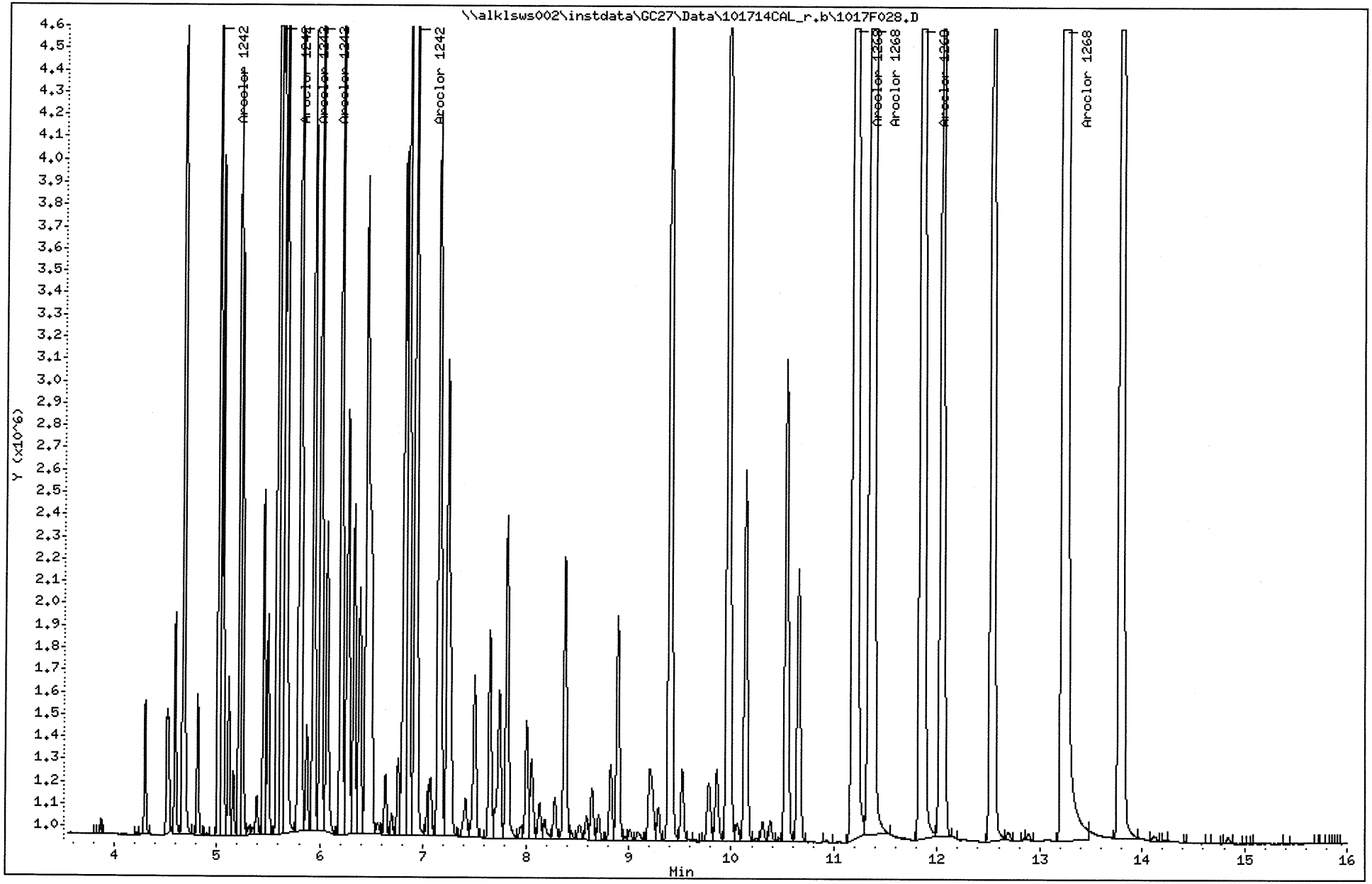
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

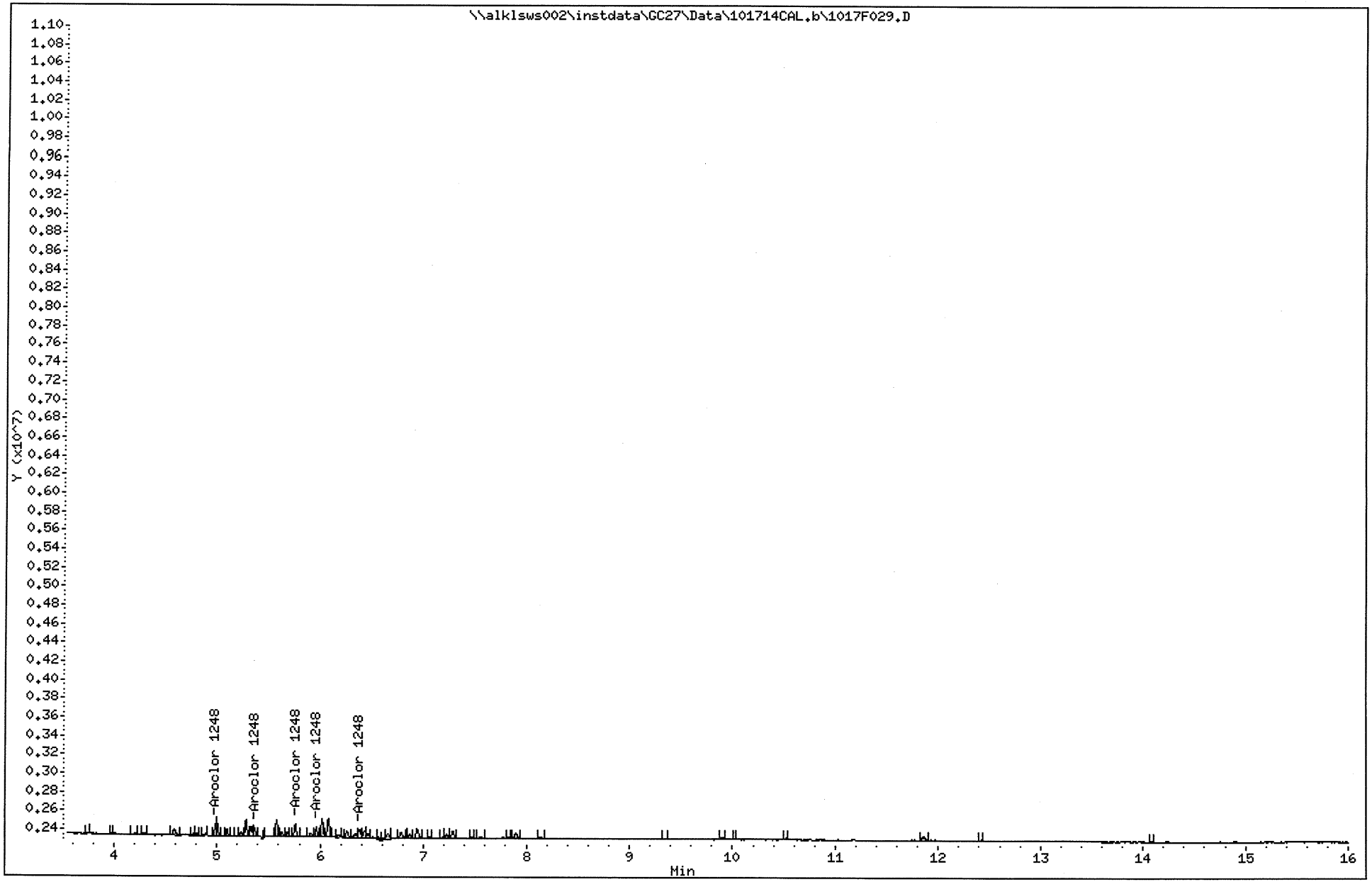
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



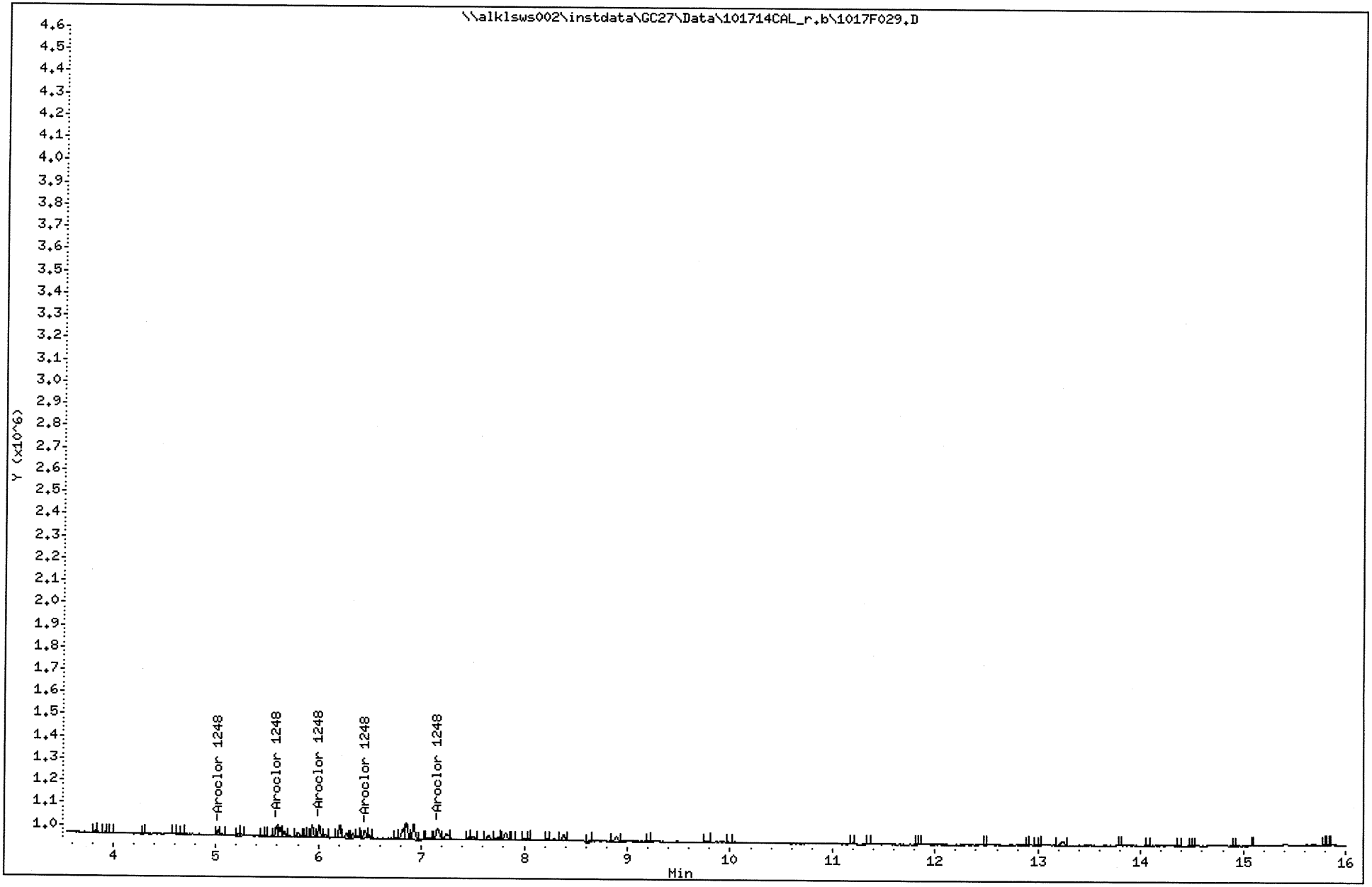
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

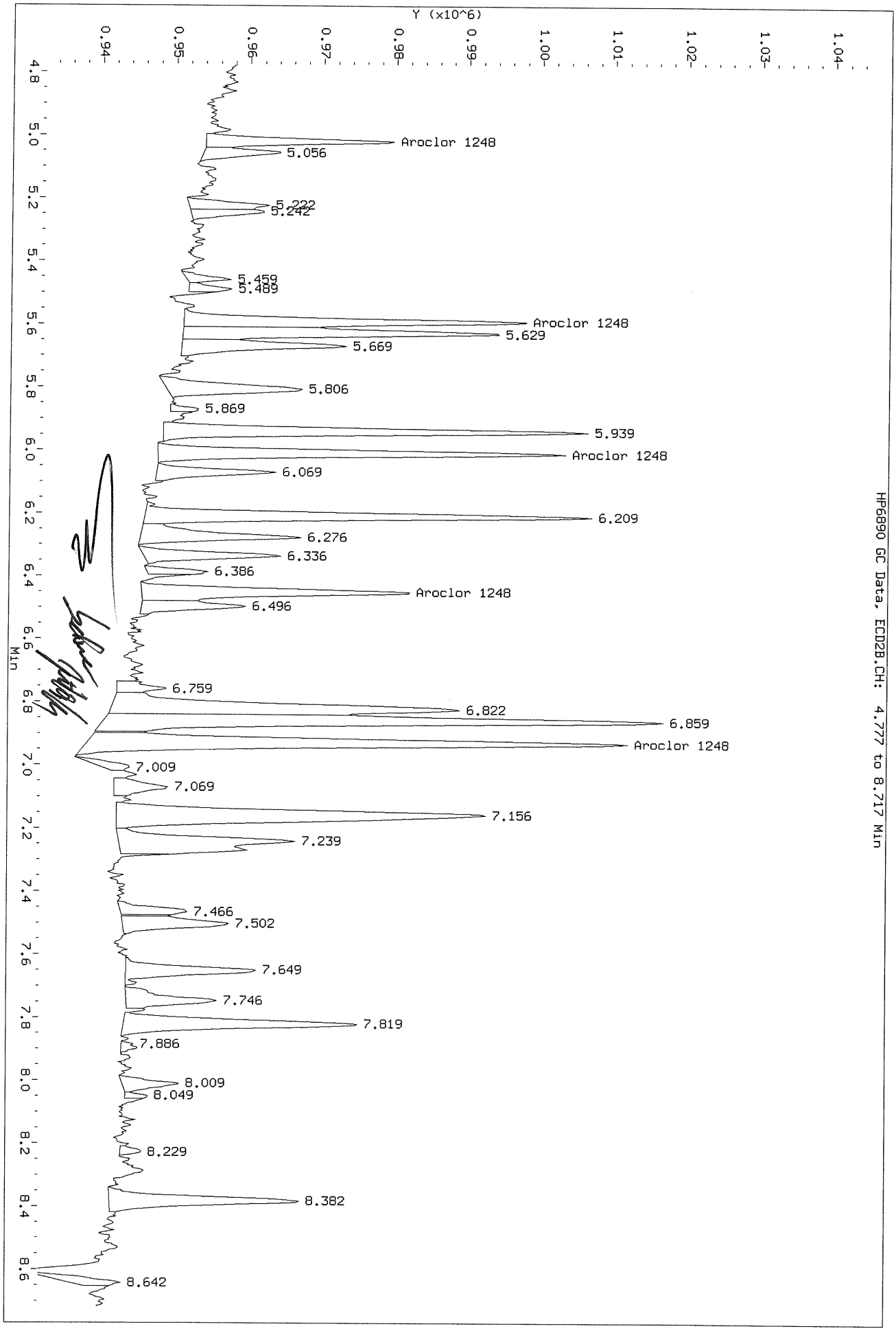
Column phase: DB-XLB

Column diameter: 0.32



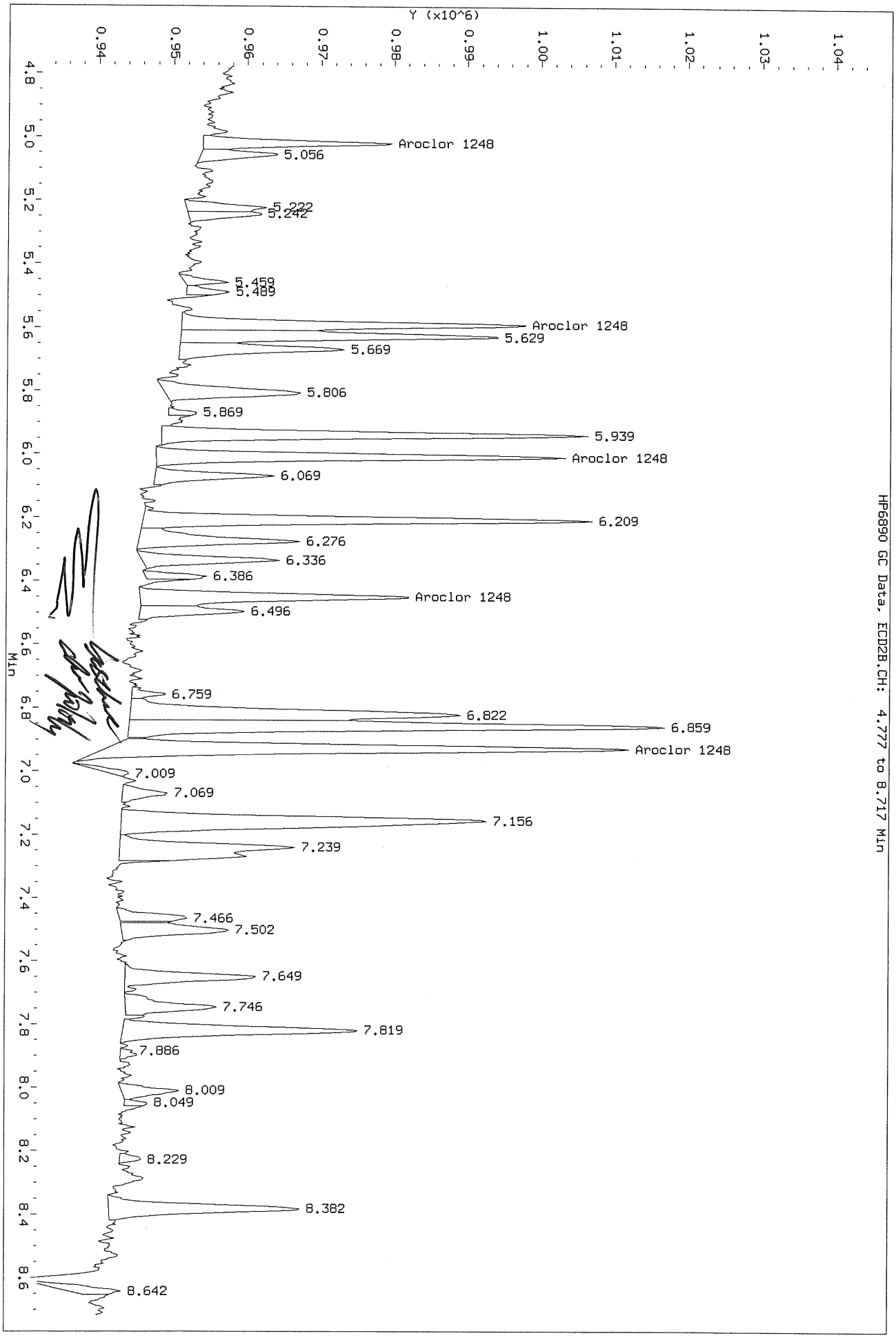
Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

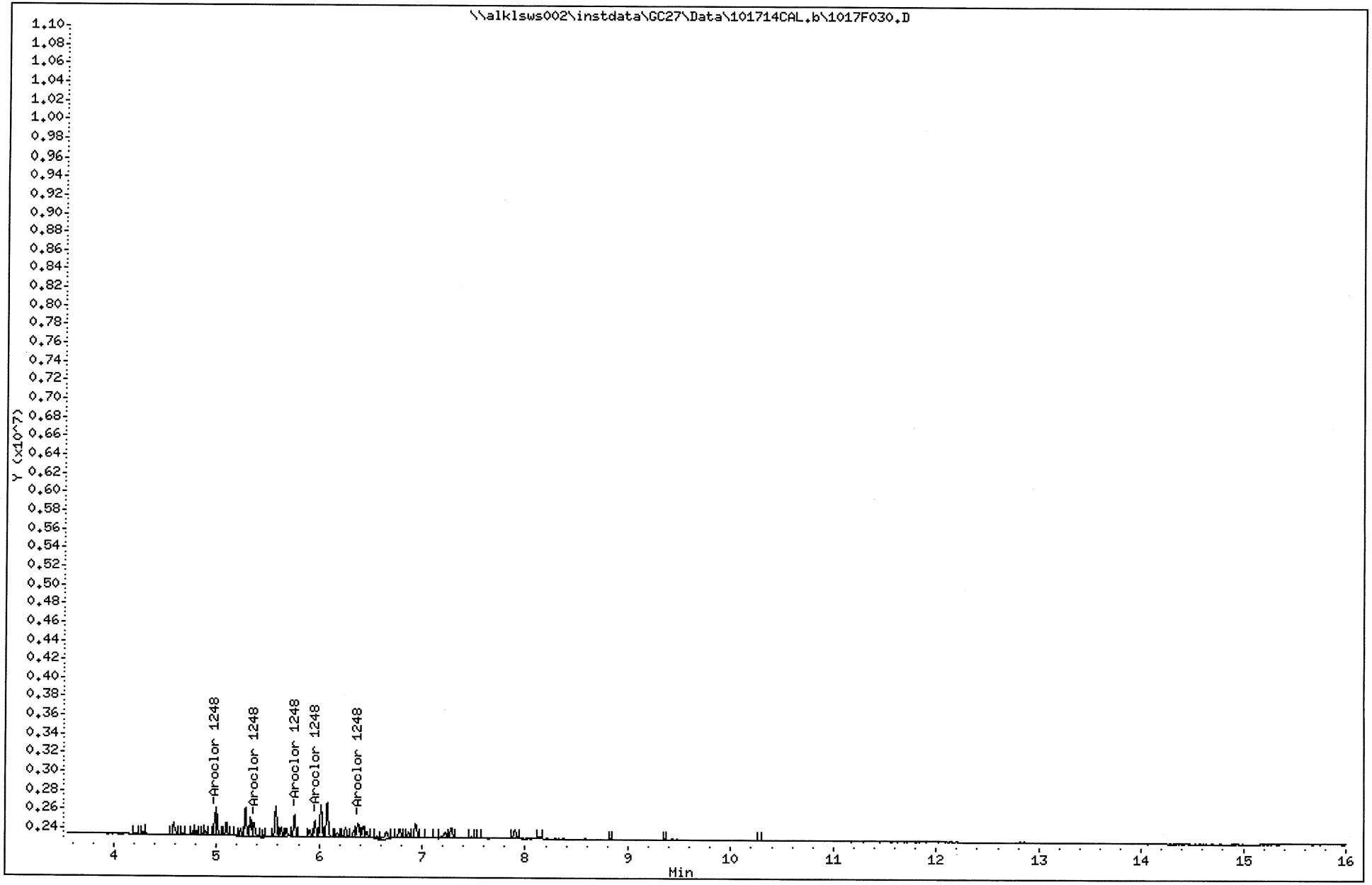
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



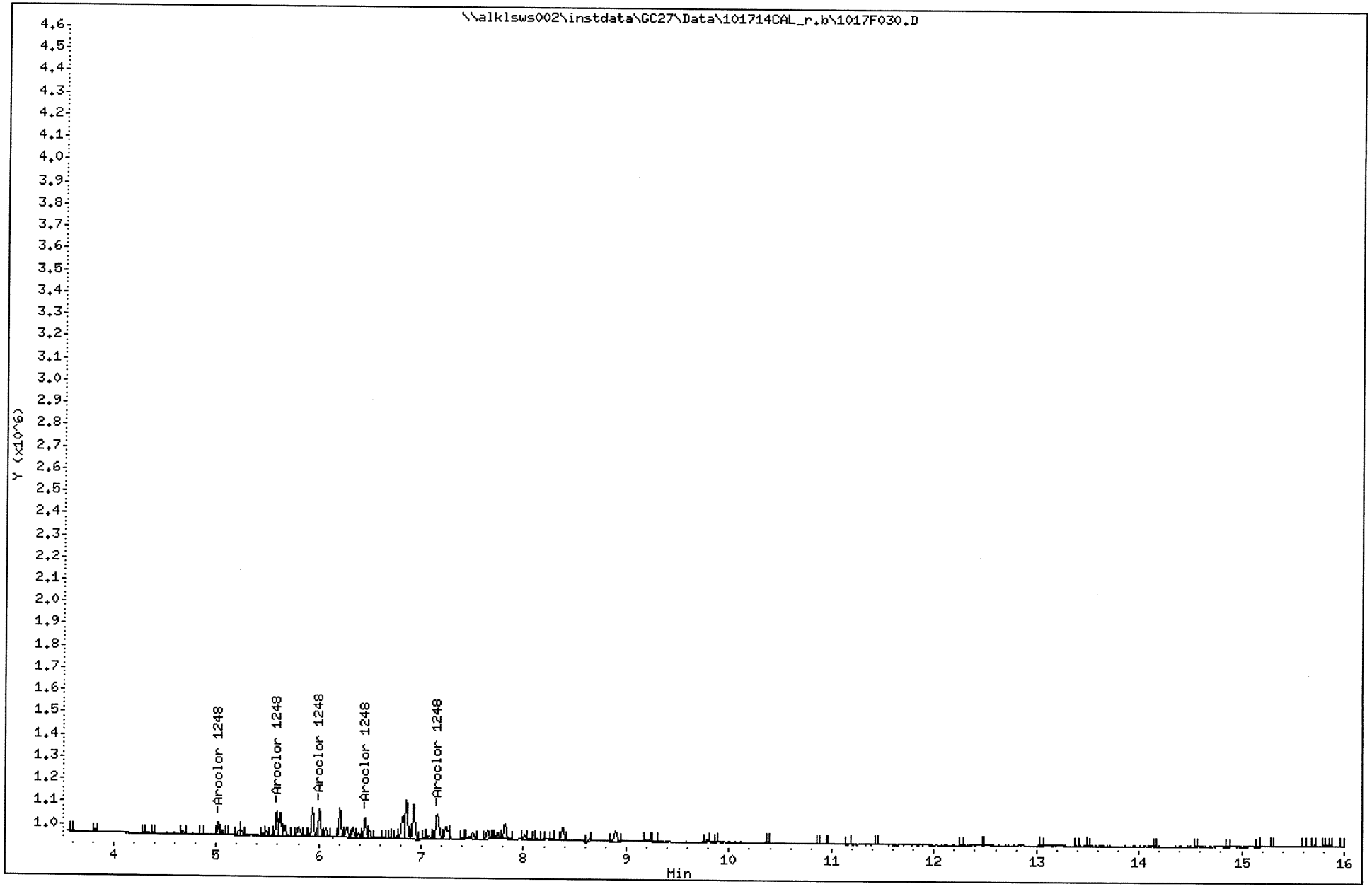
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

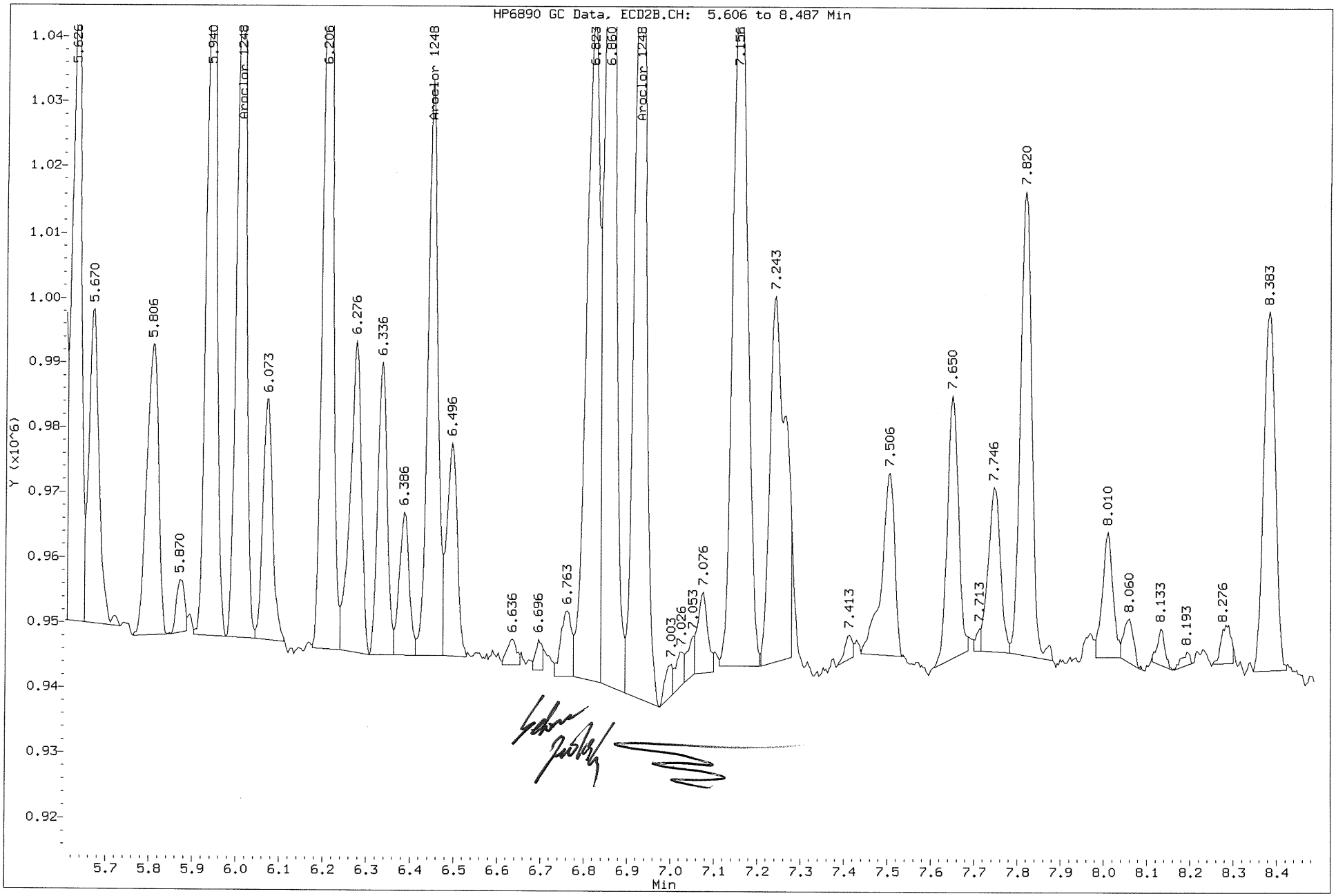
Operator: JMSmith

Column phase: DB-XLB

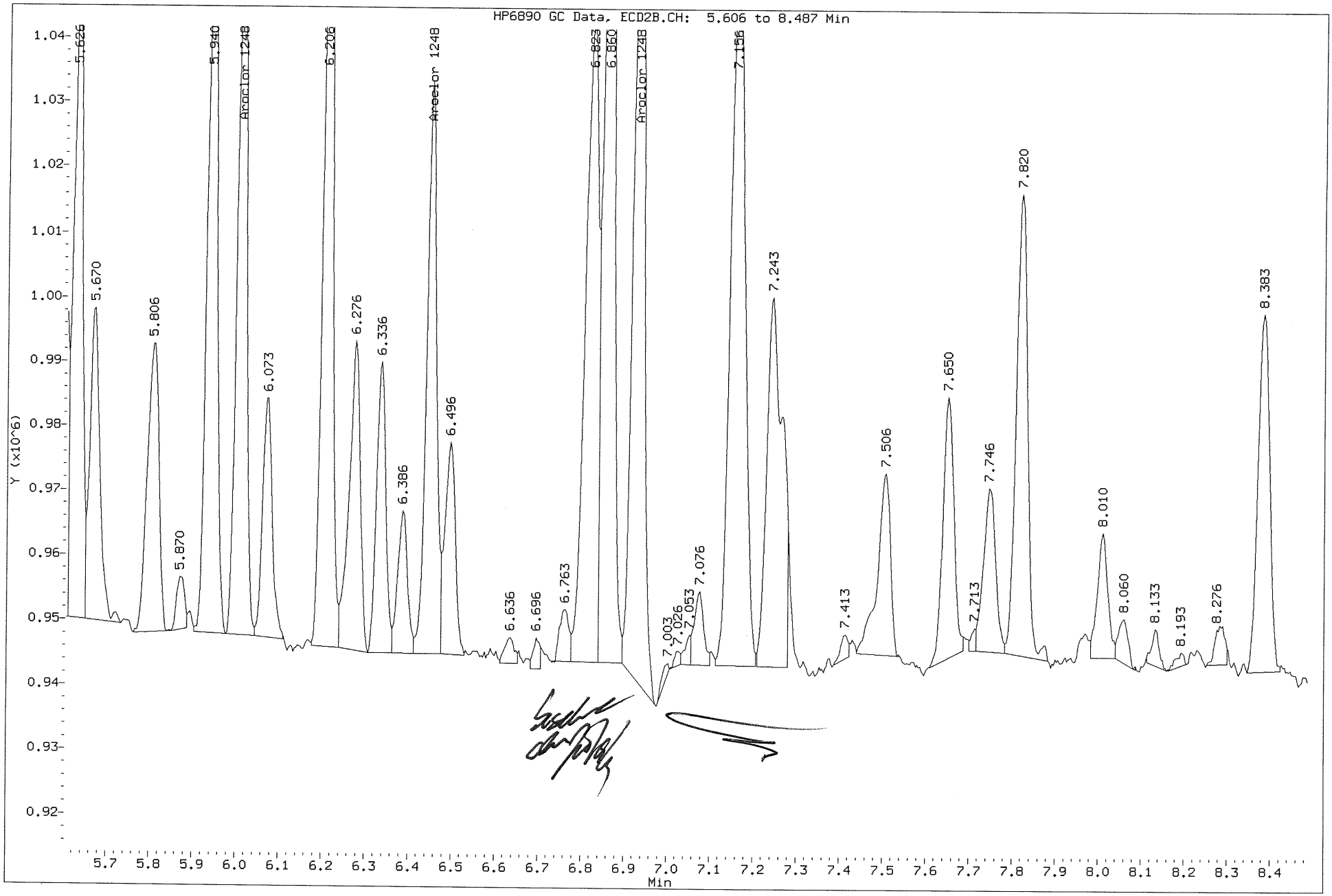
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

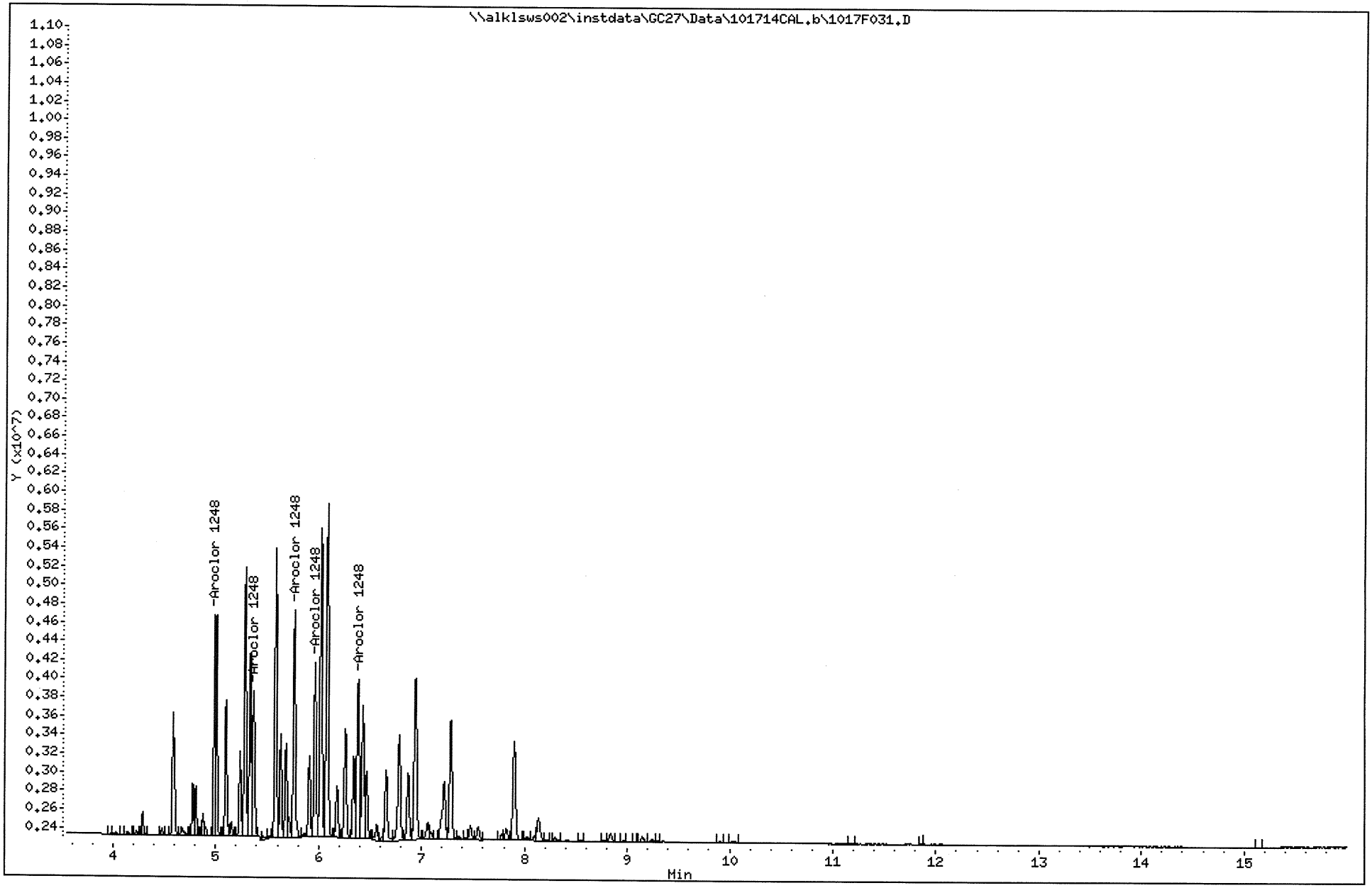
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JHSmith

Column phase: DB-35MS

Column diameter: 0.32



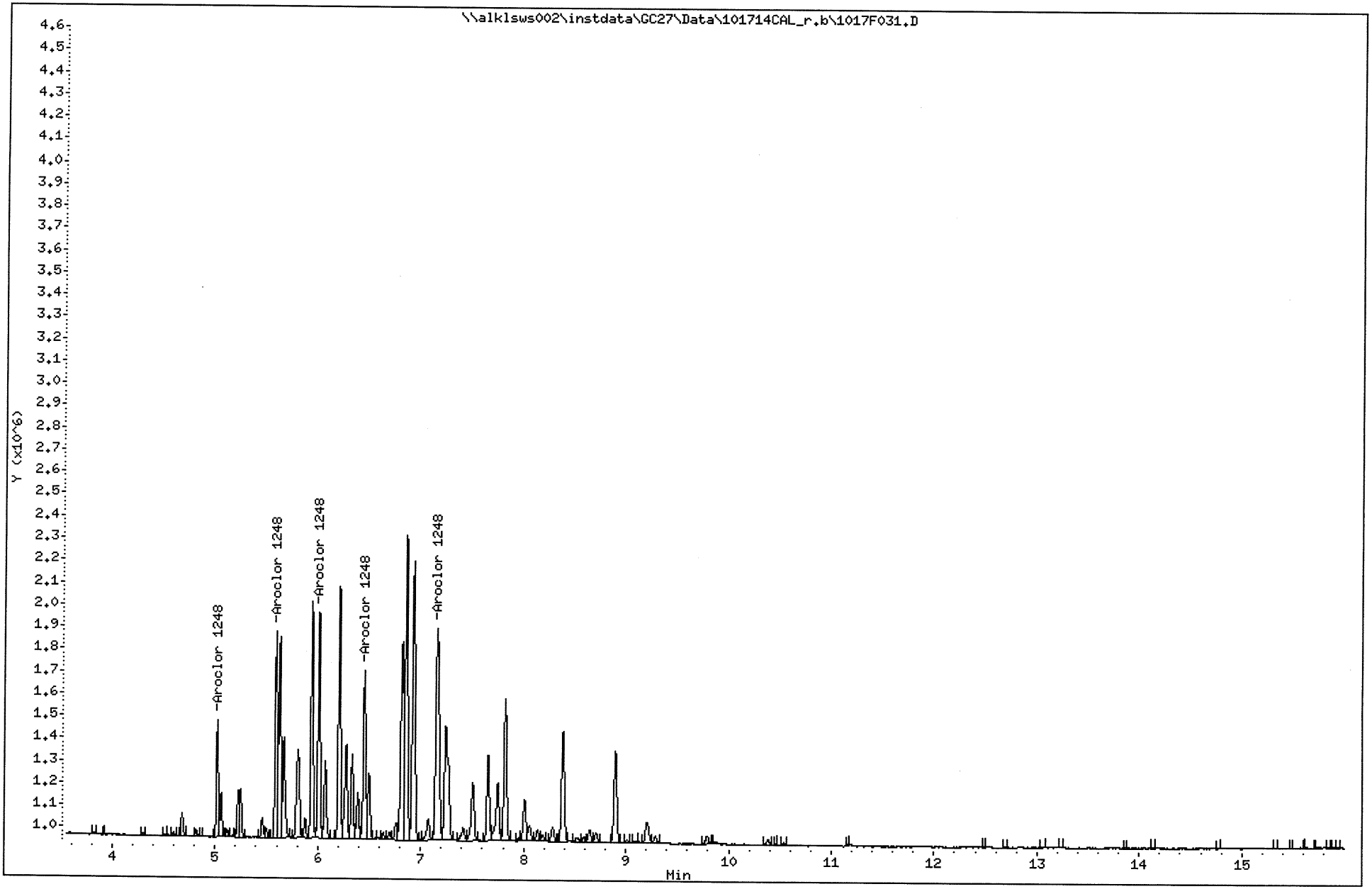
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

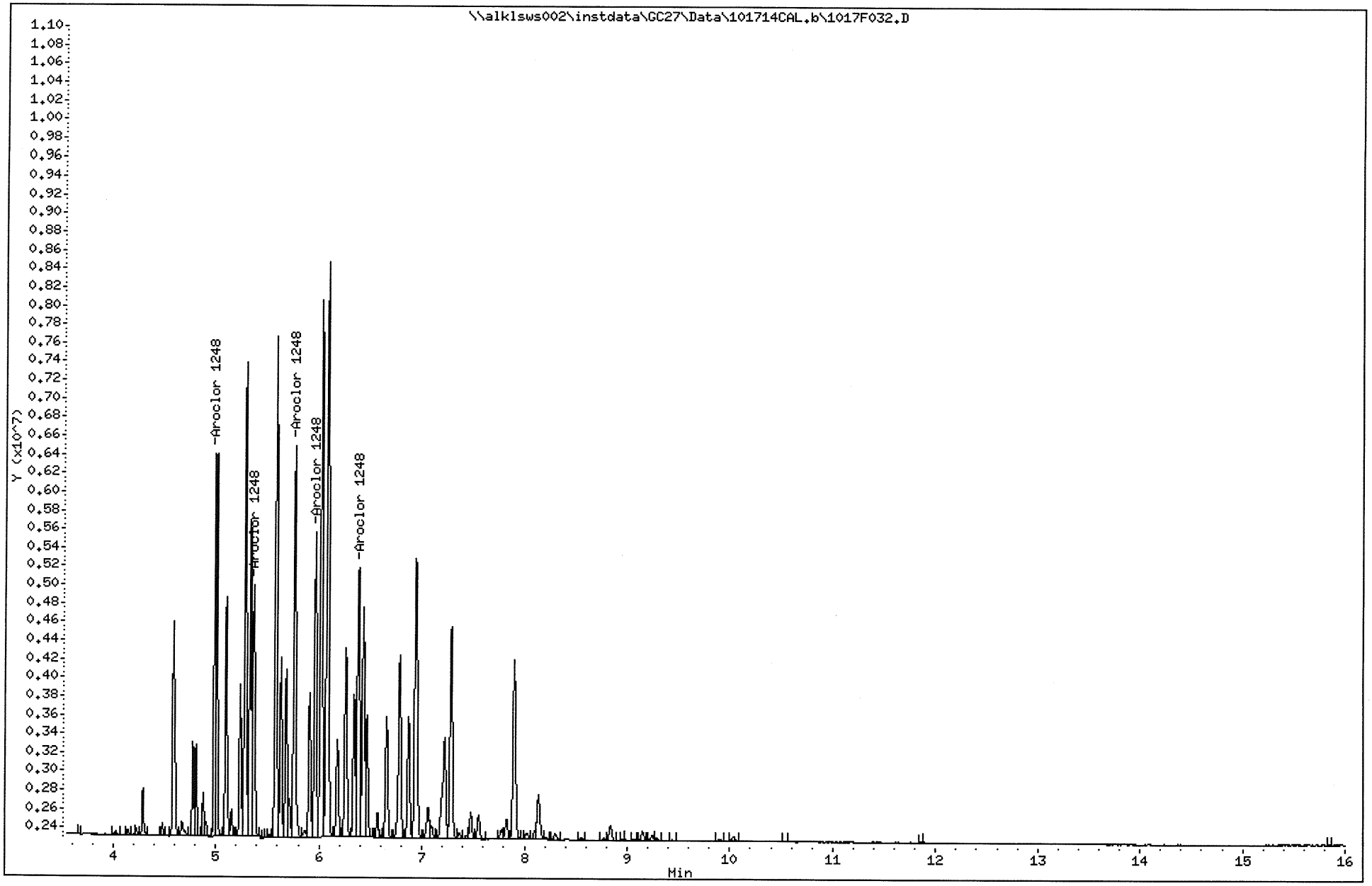
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



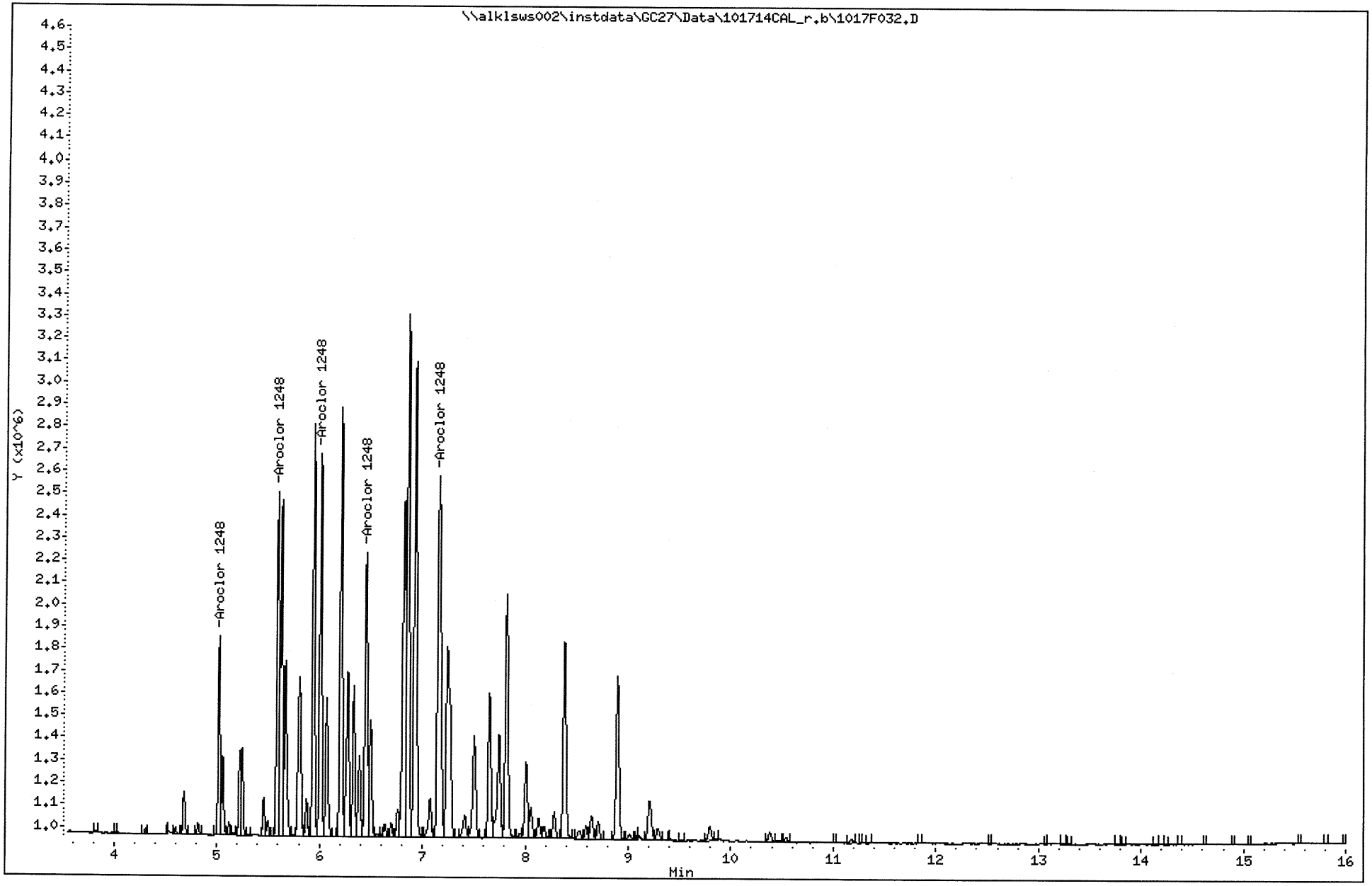
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

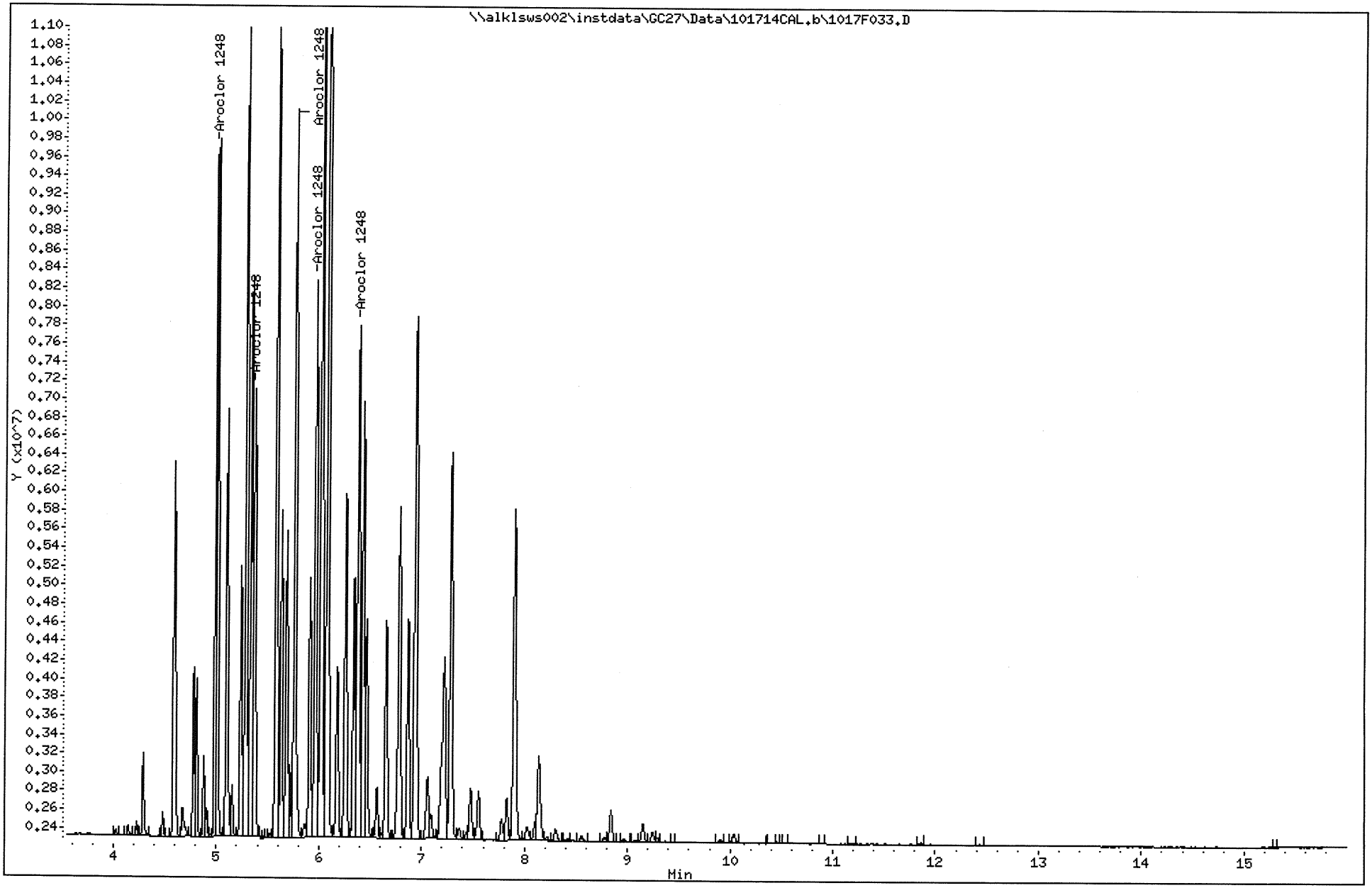
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

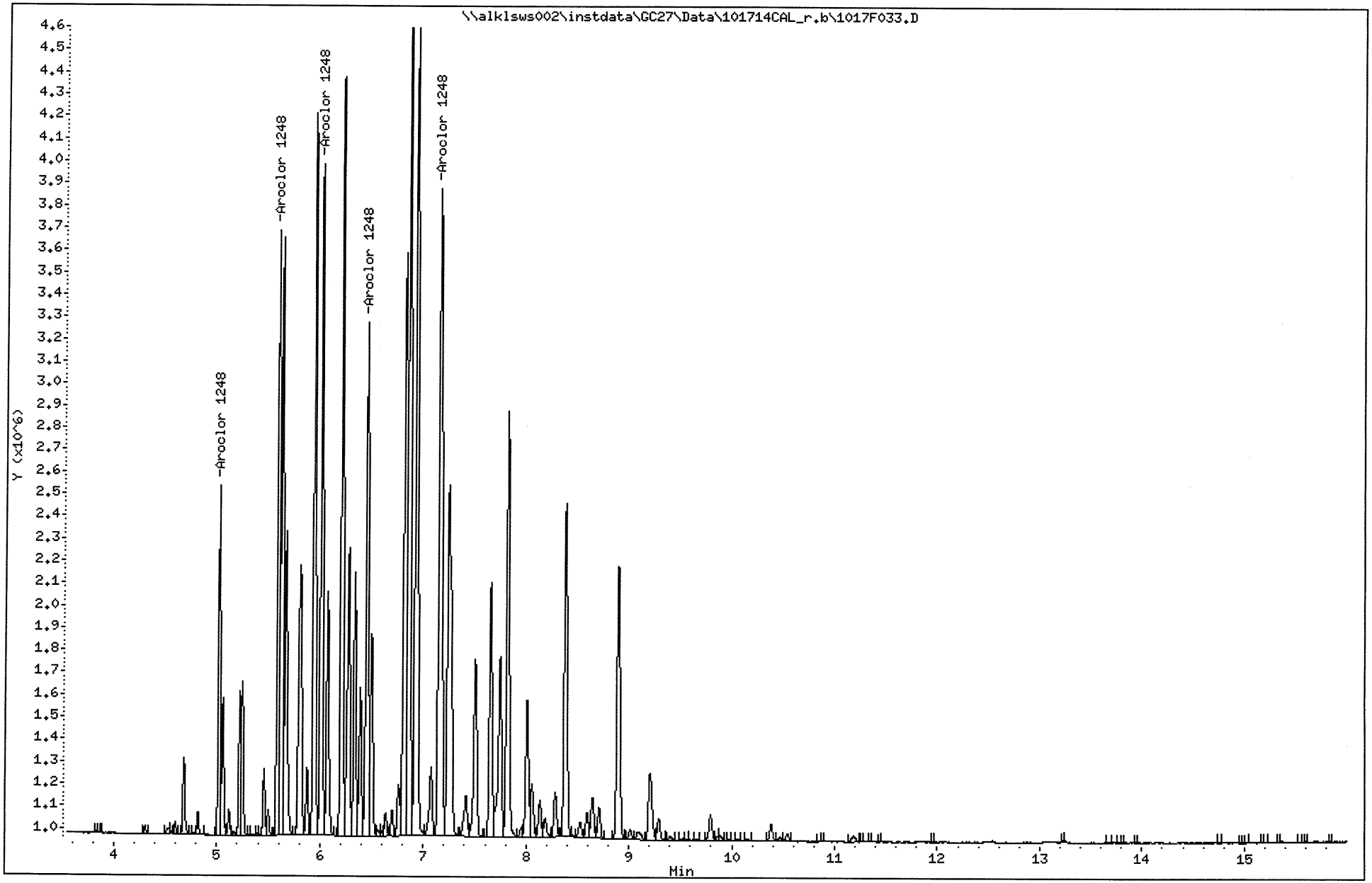


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

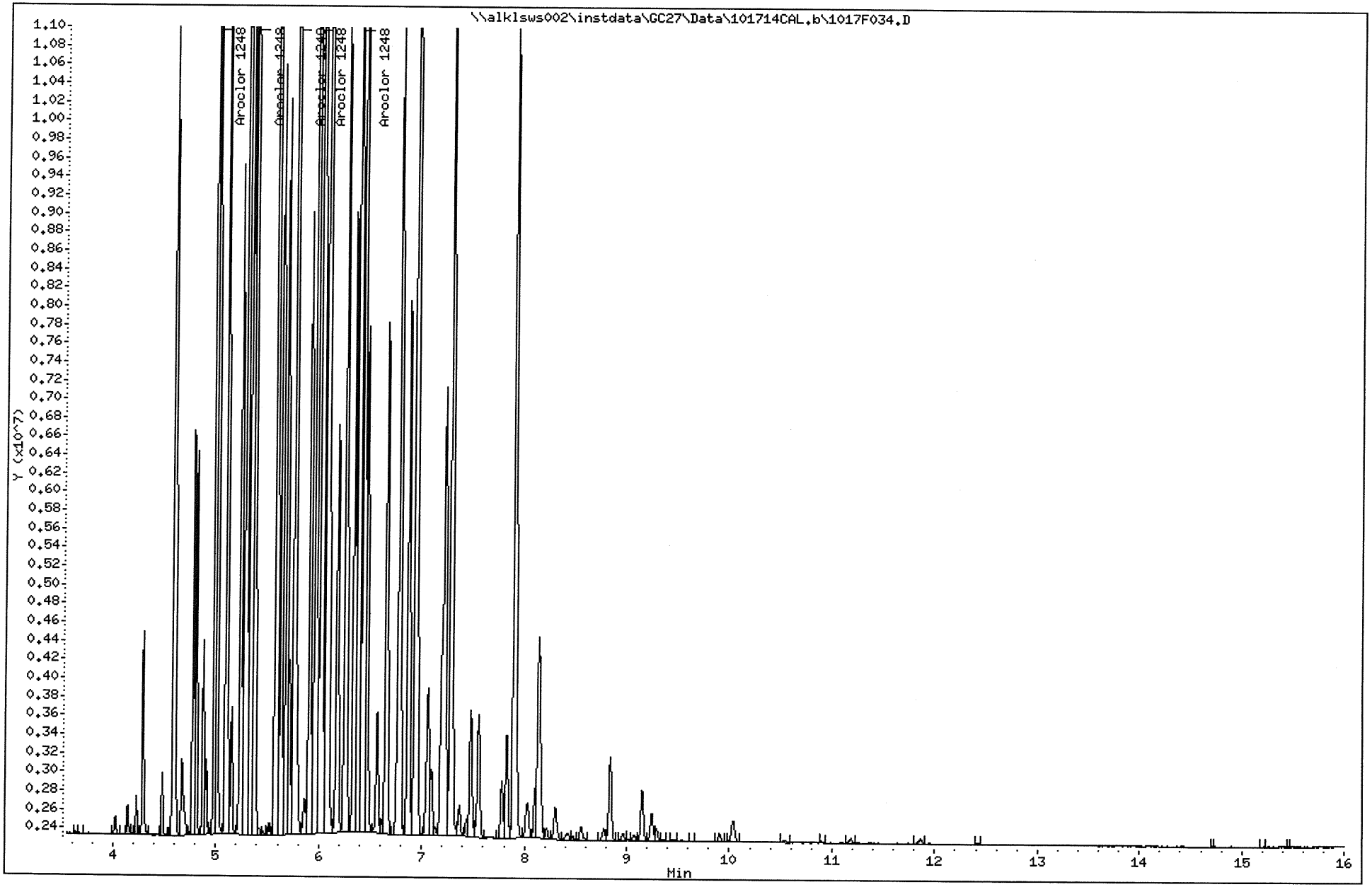
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

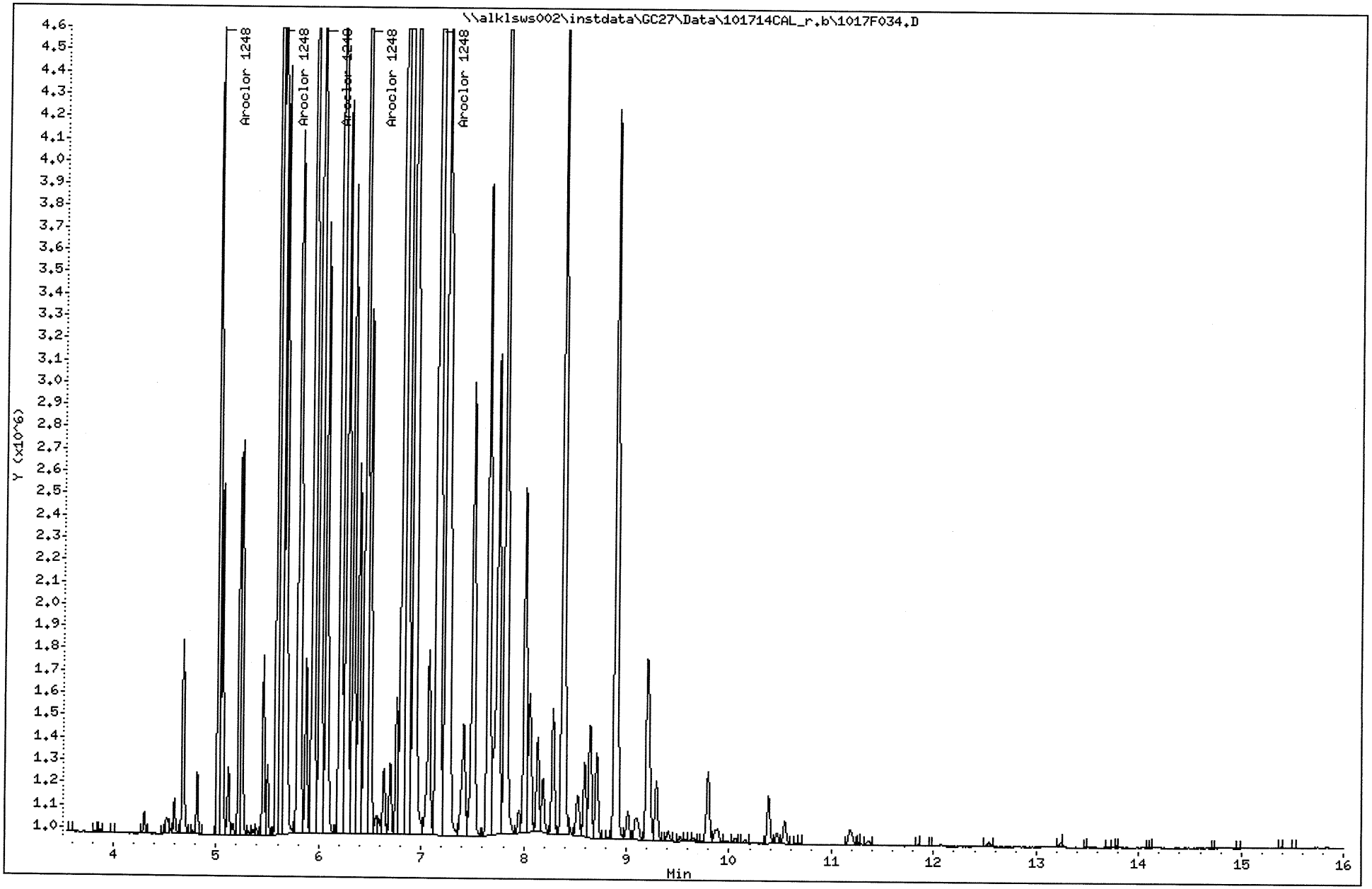


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

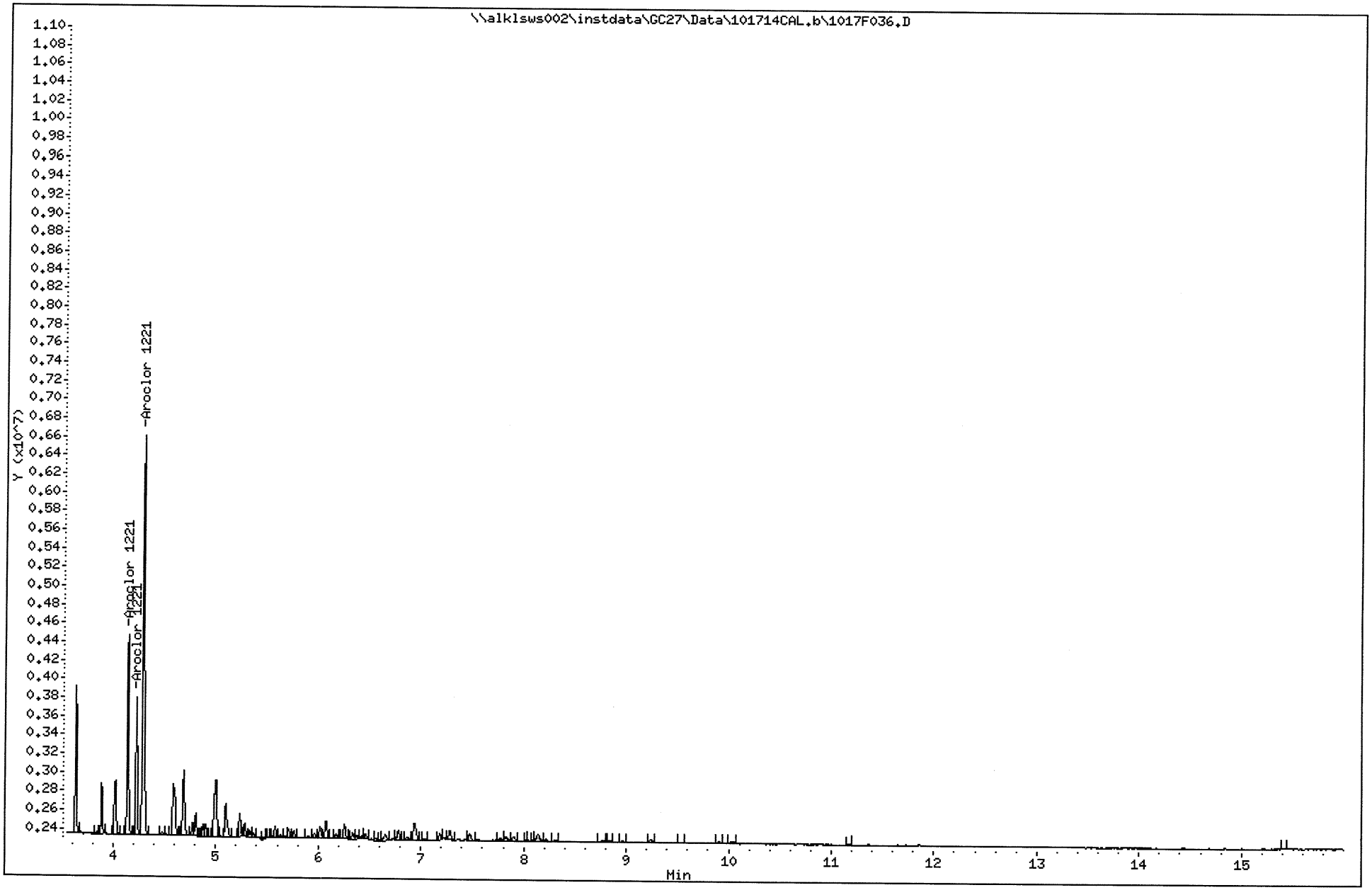
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



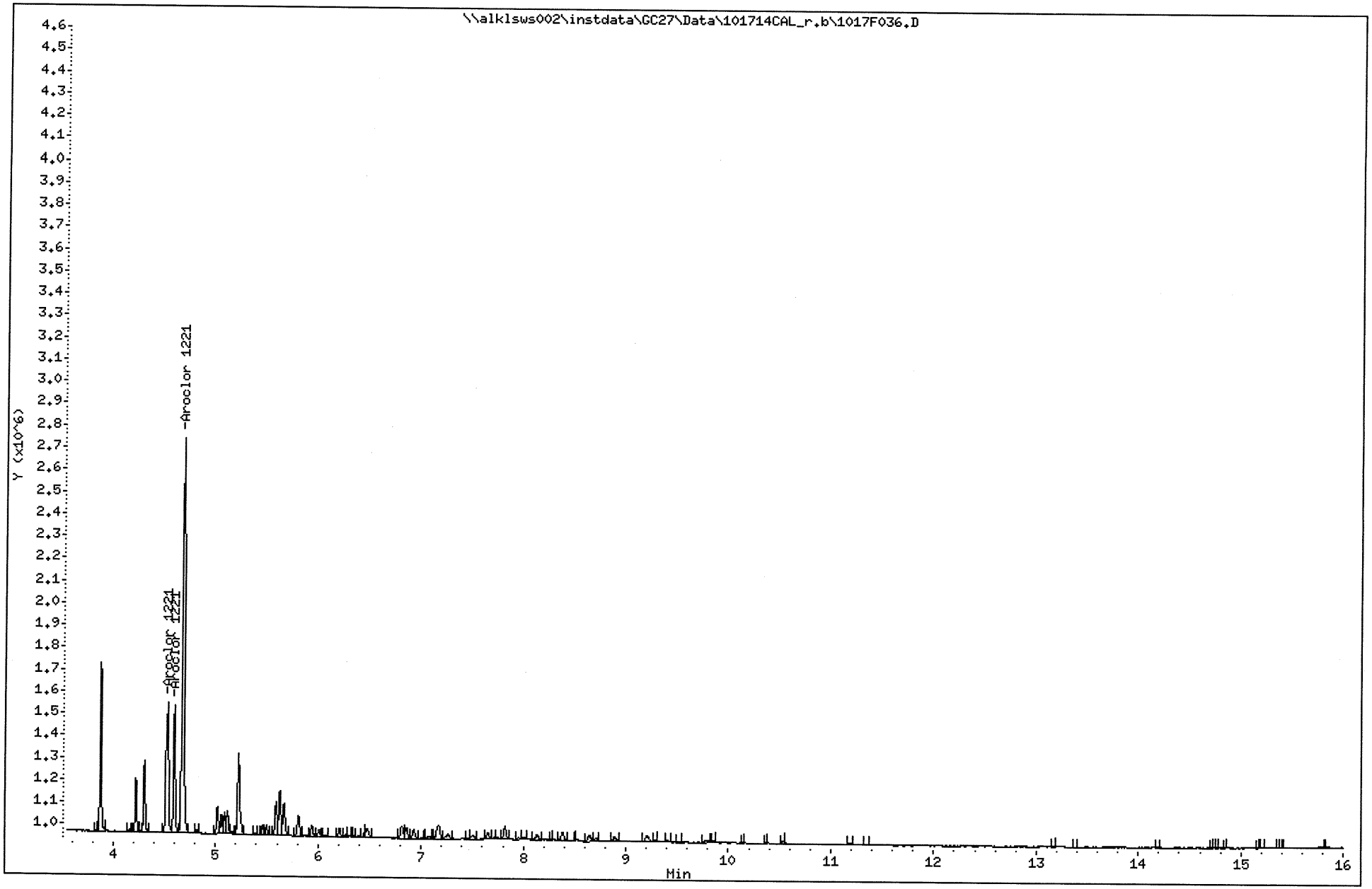
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

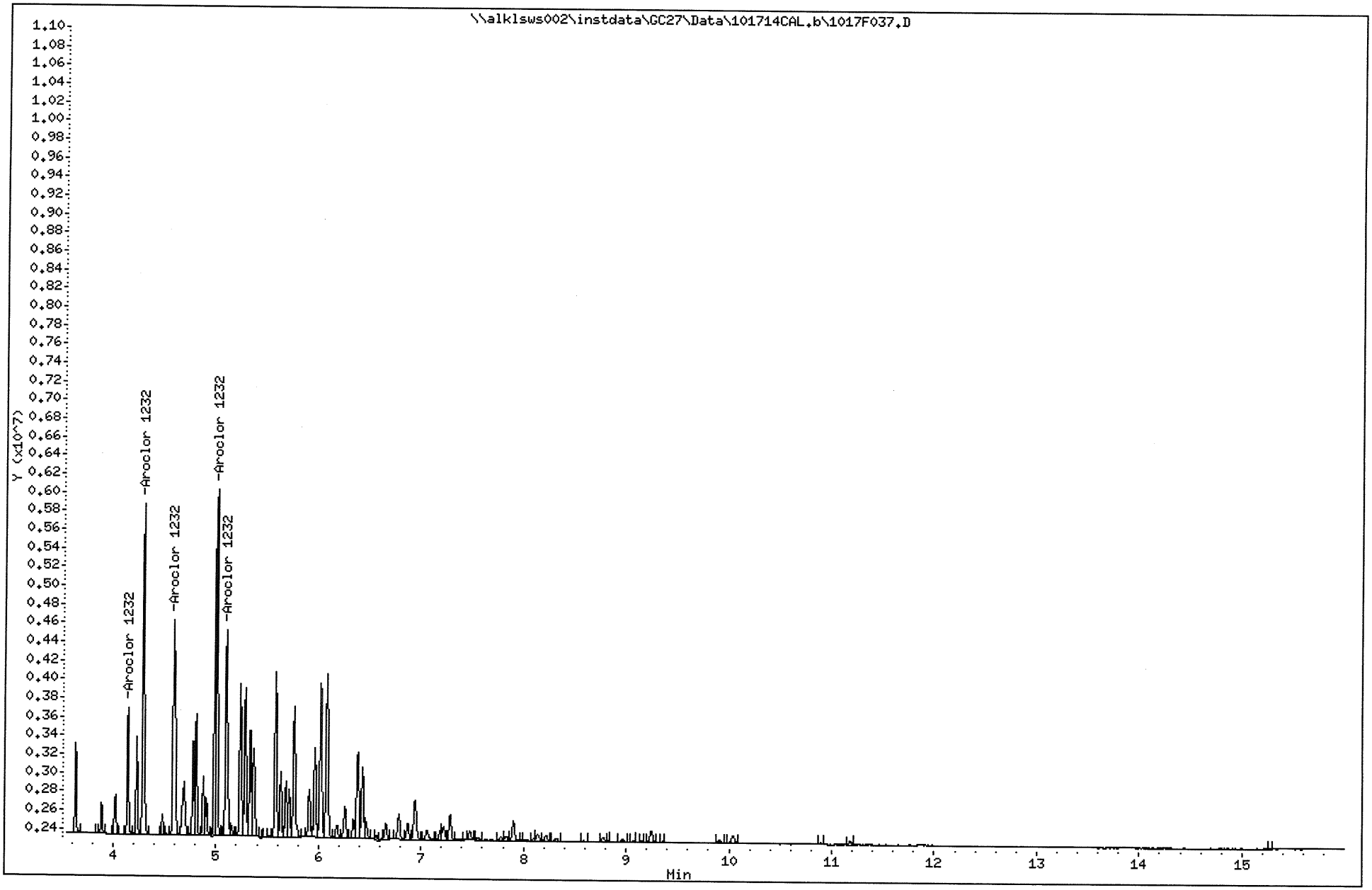
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

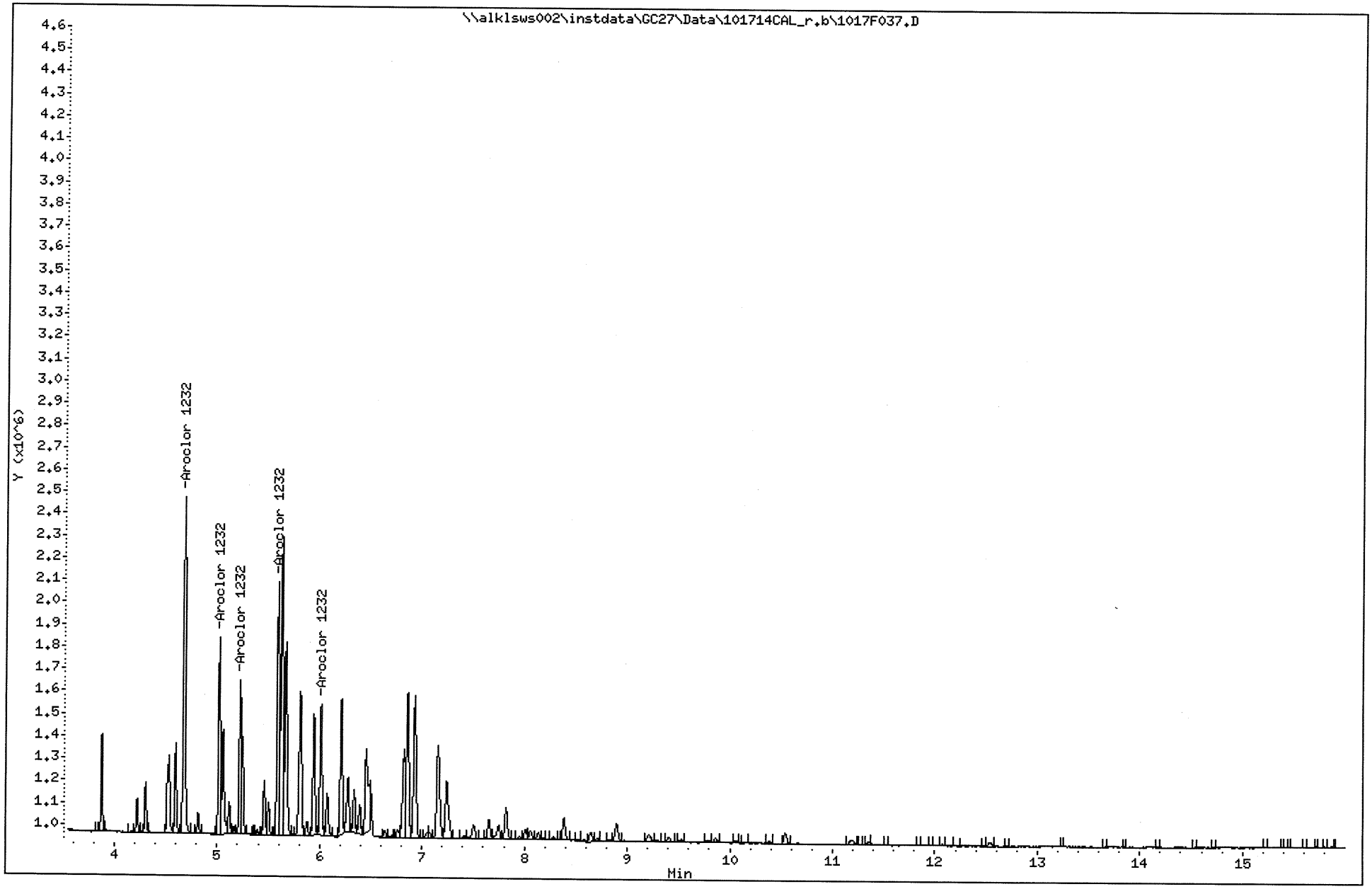


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

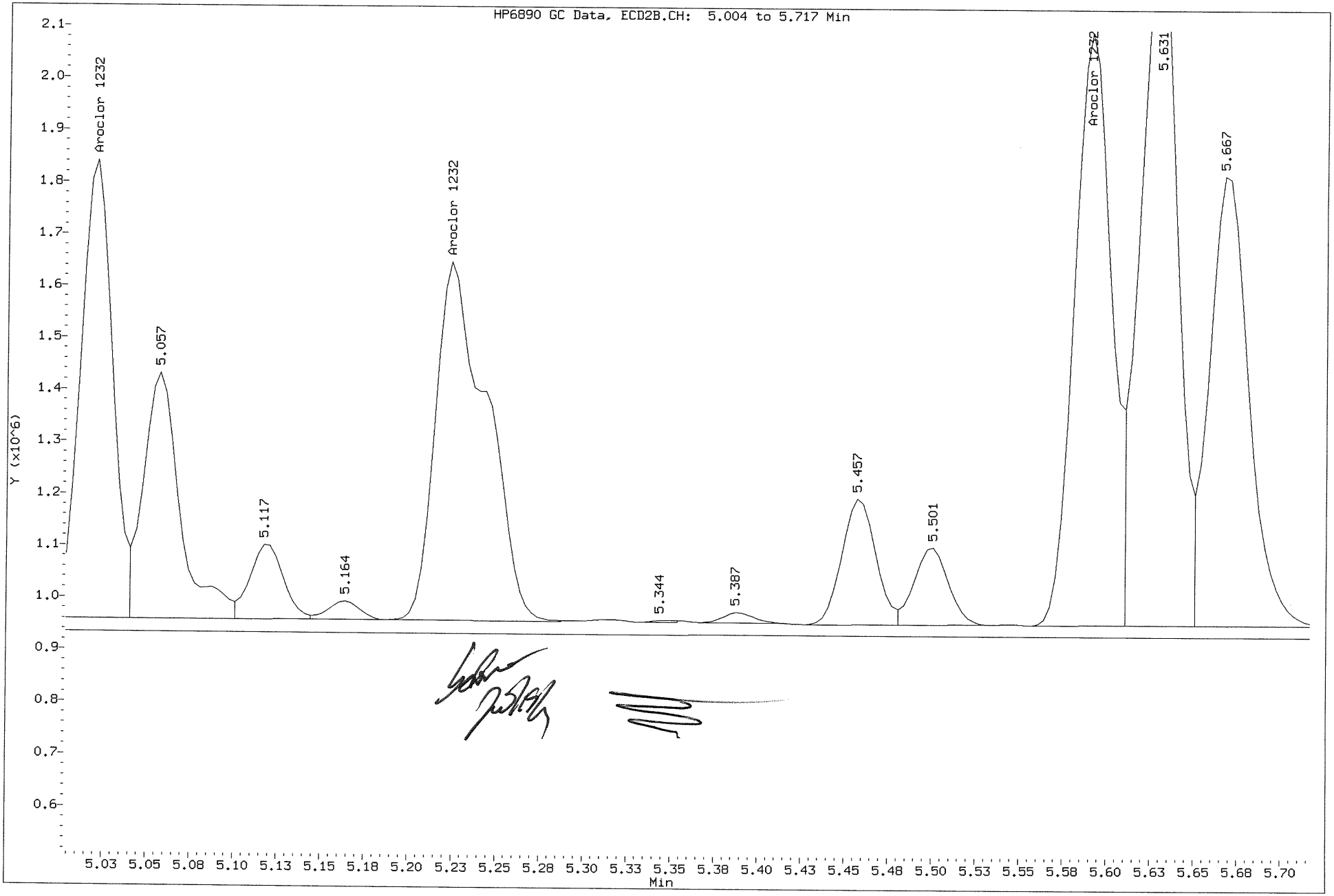
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

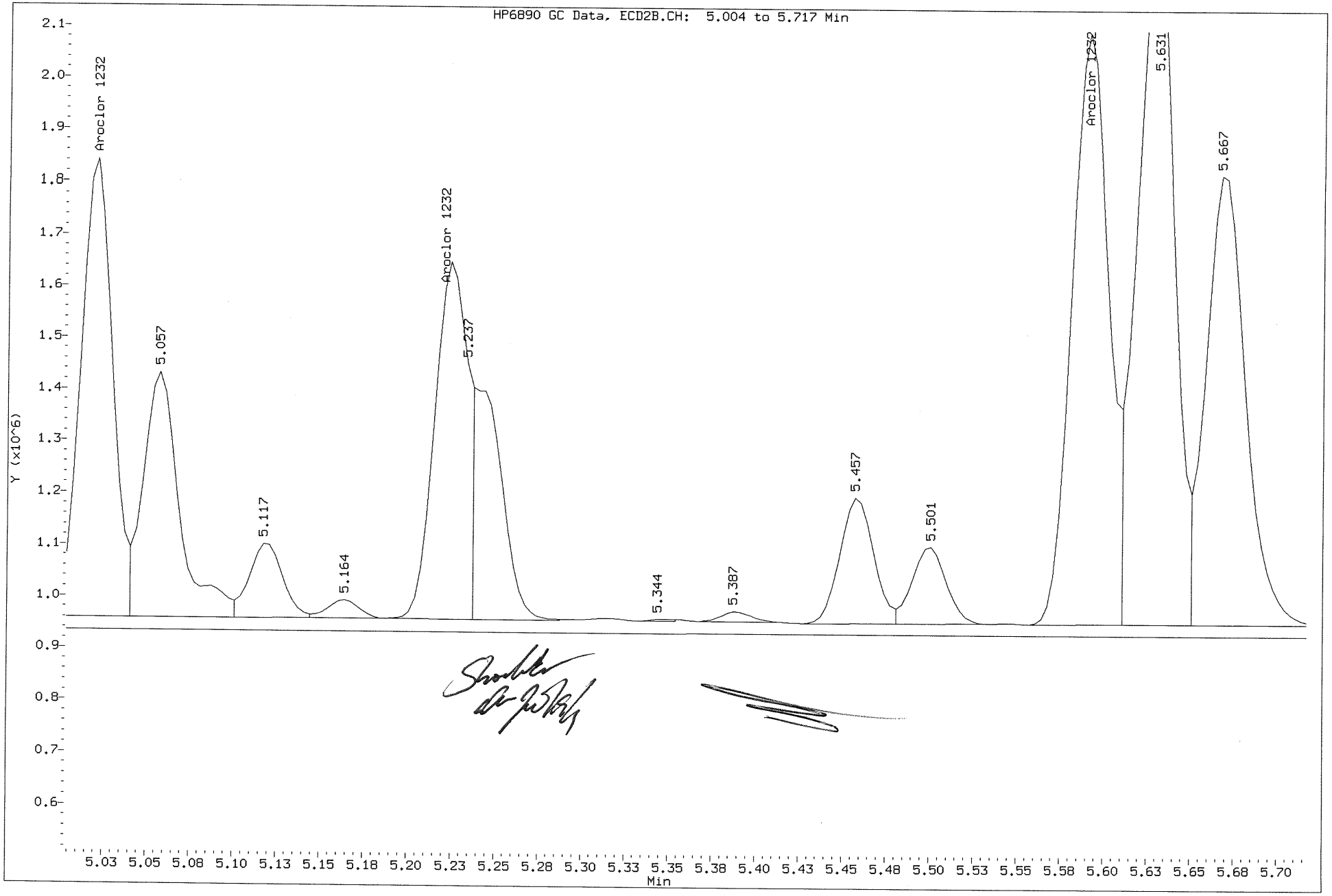
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

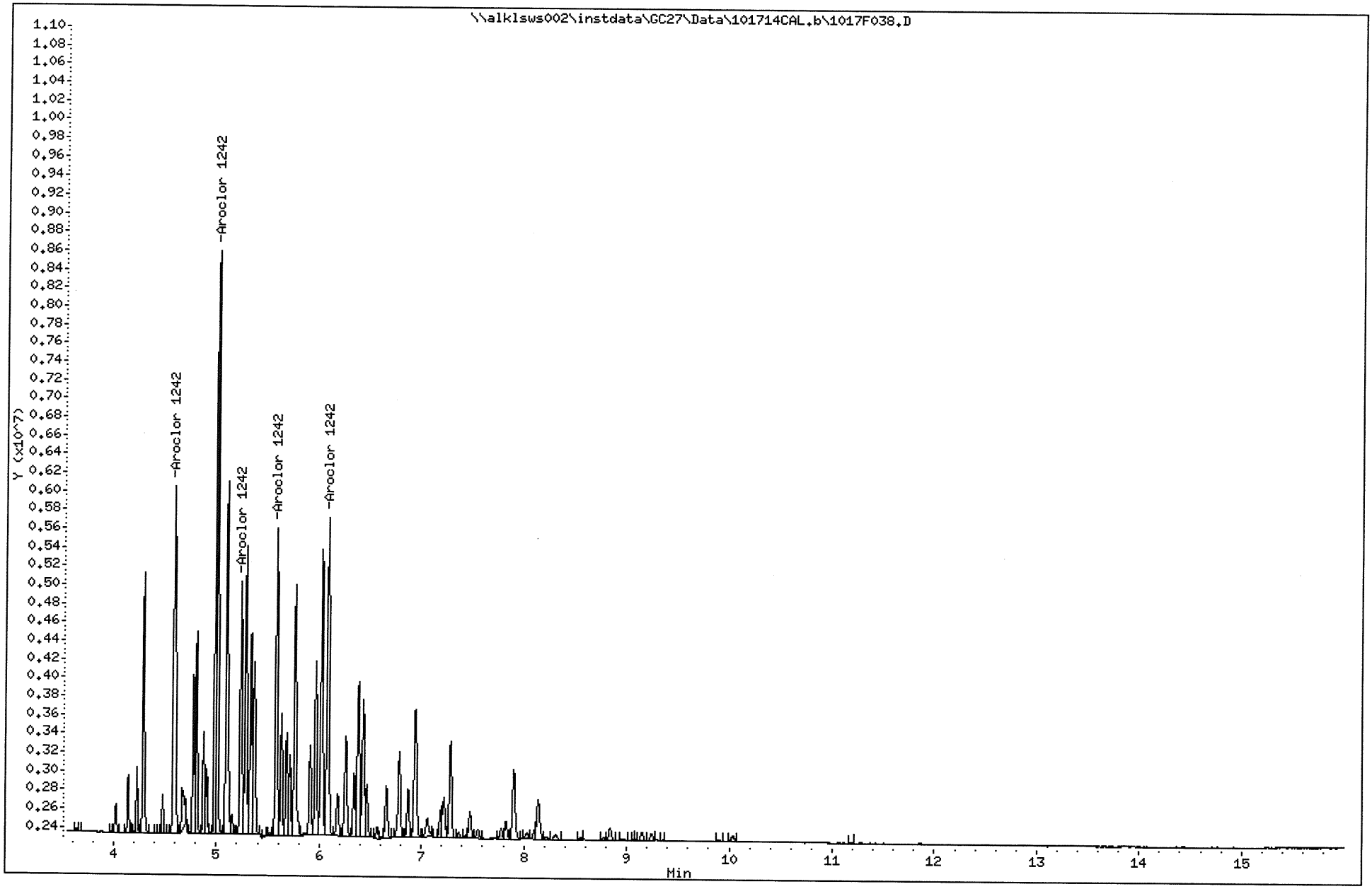
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

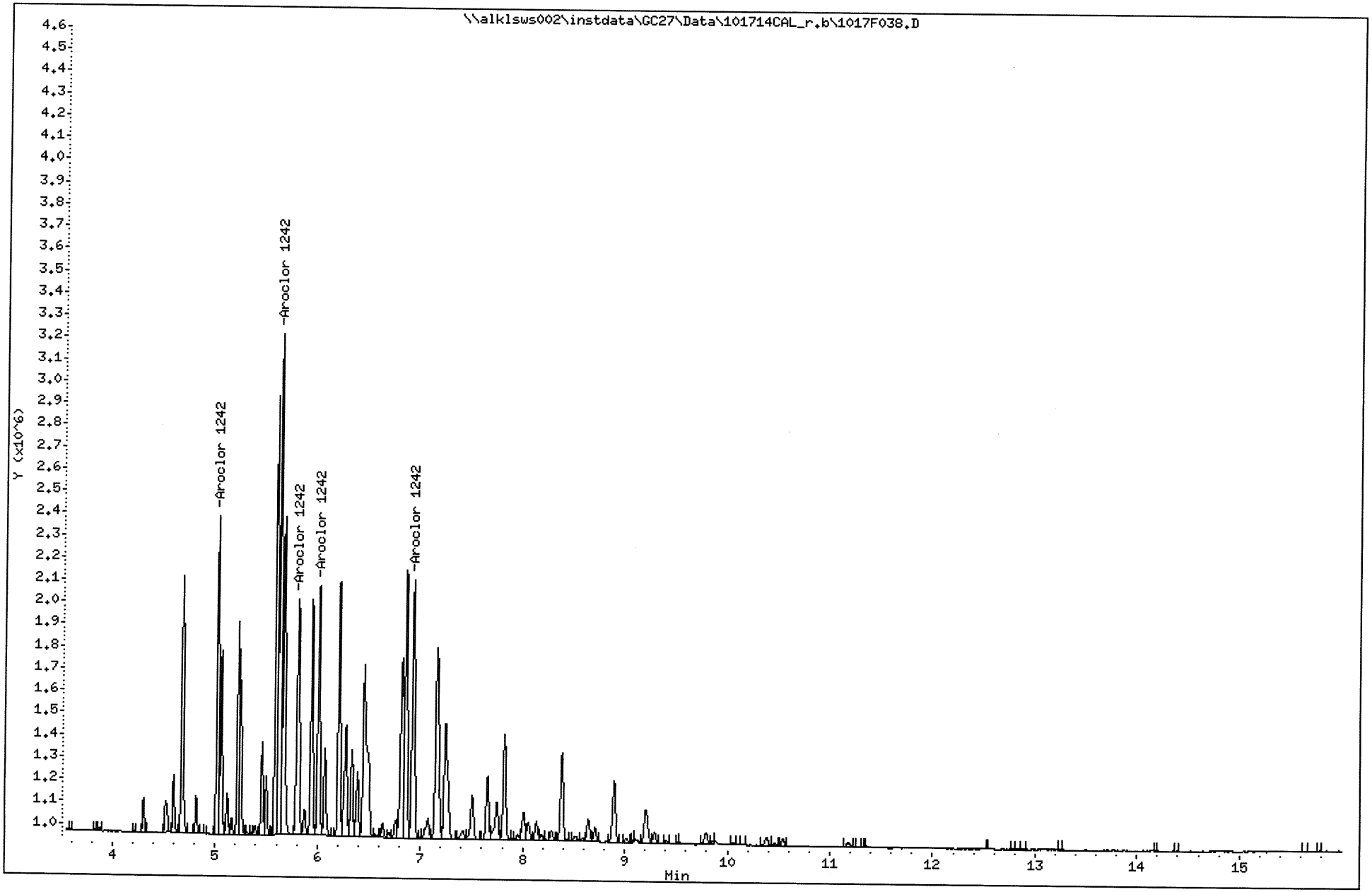


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

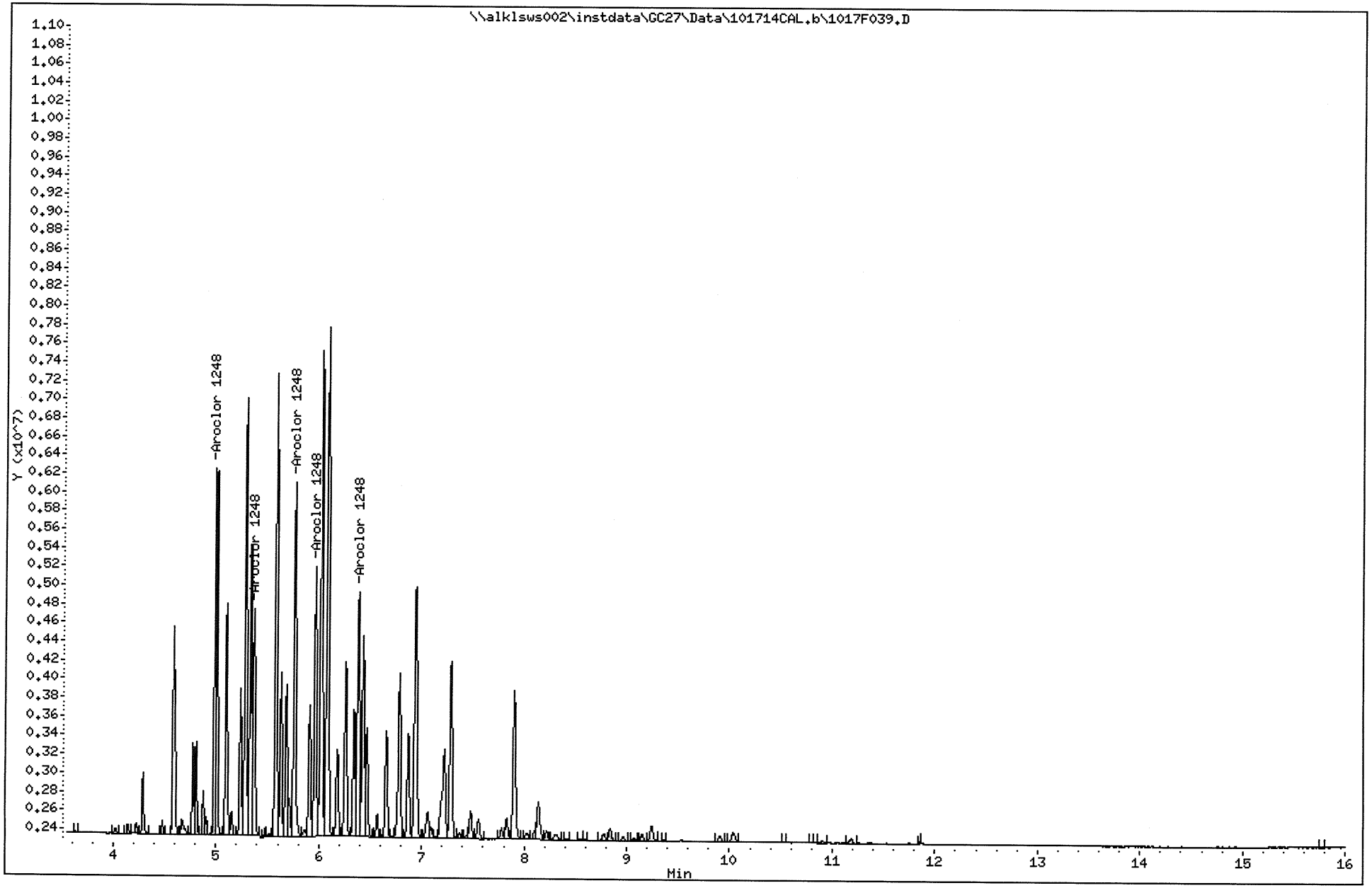
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



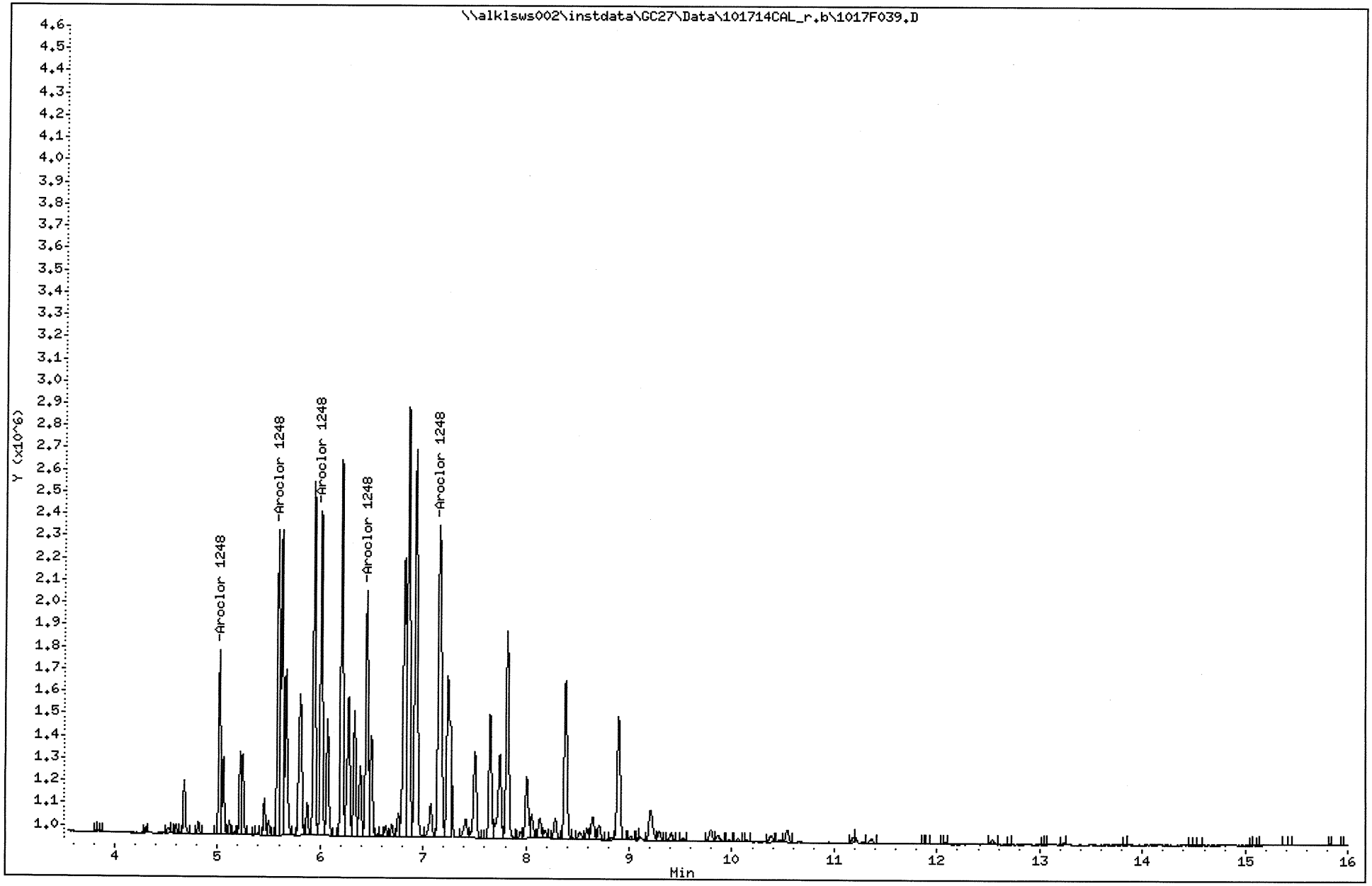
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

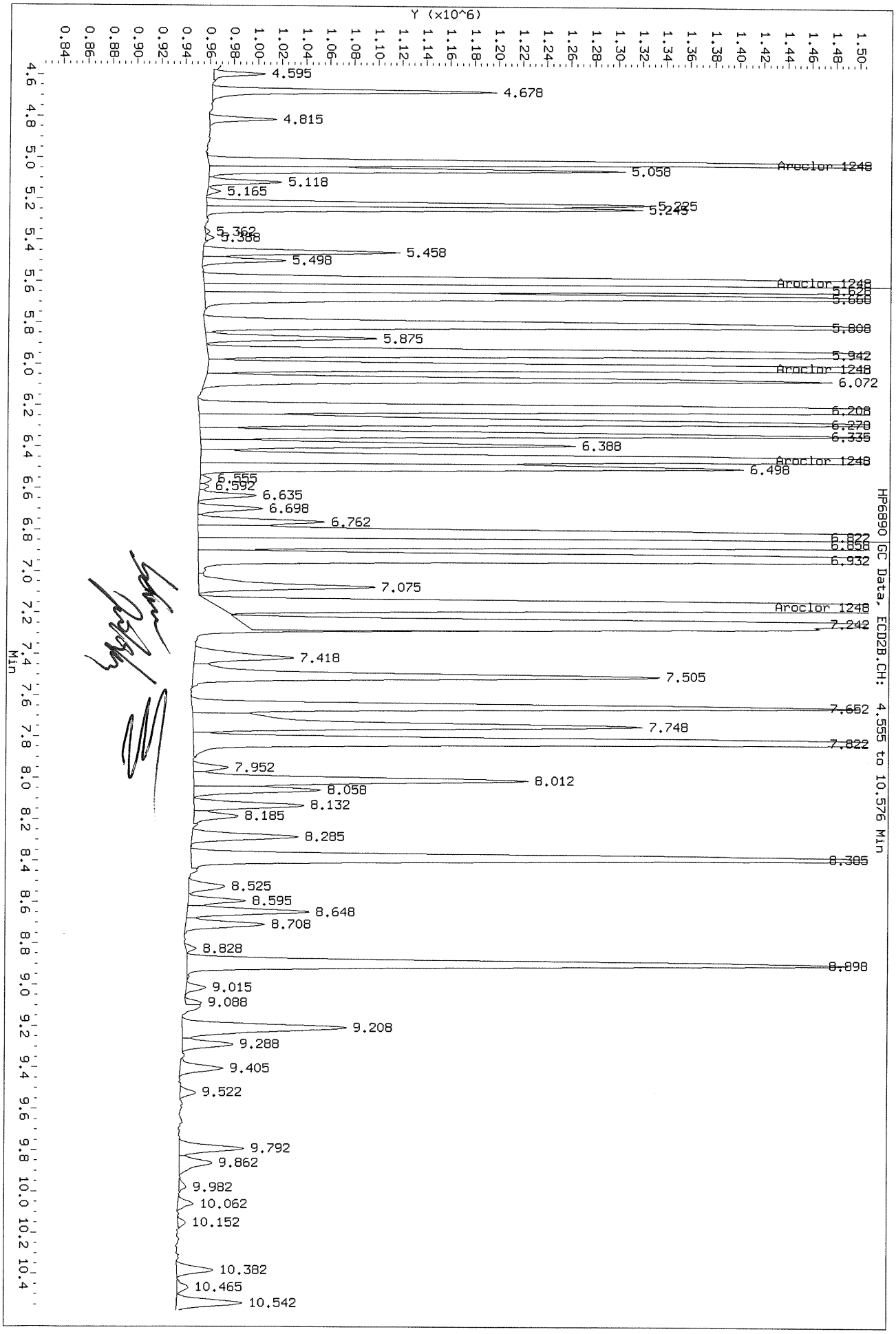
Column phase: DB-XLB

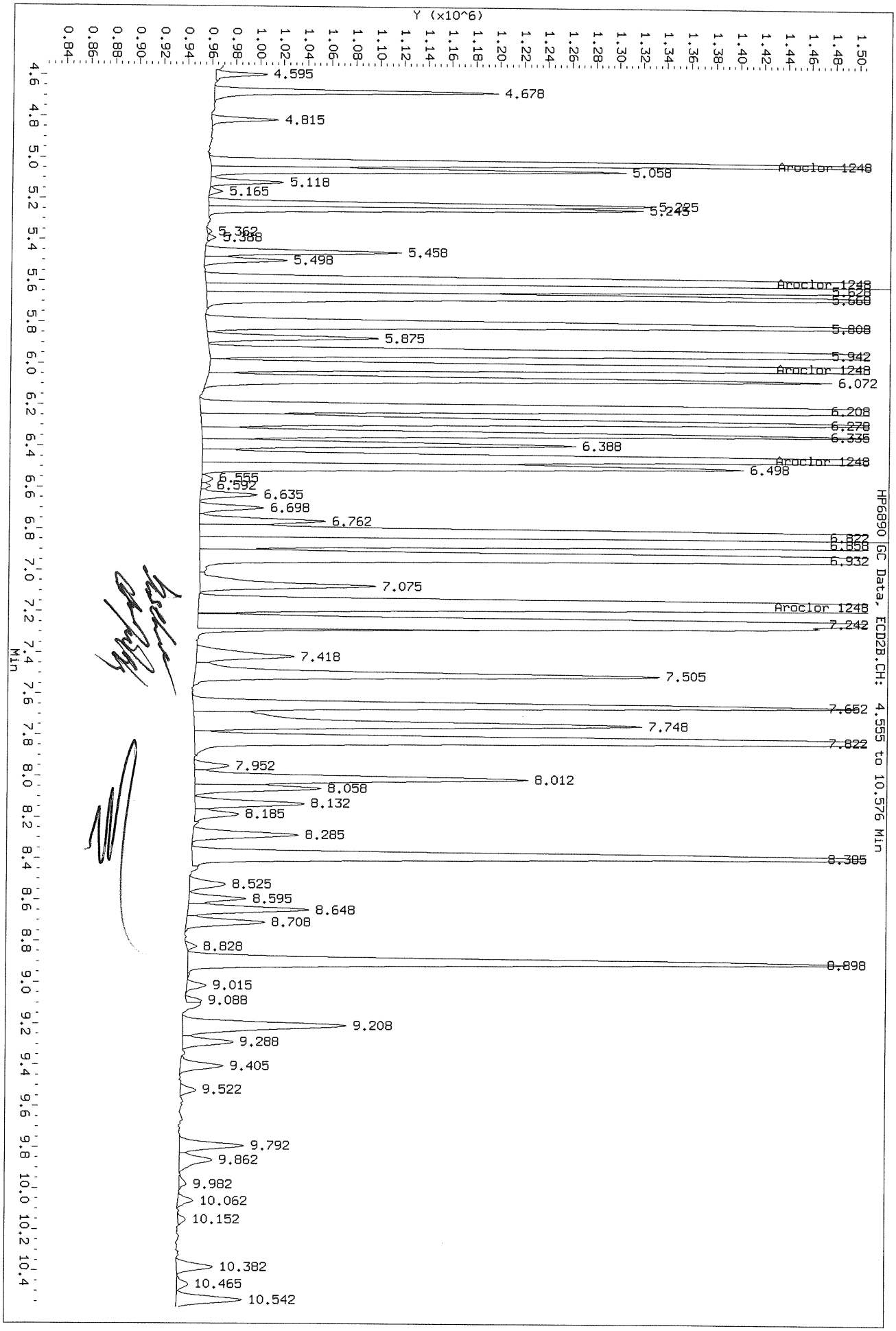
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
6.270
6.335
6.388
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
8.305
8.525
8.595
8.648
8.708
8.828
8.898
9.015
9.088
9.208
9.288
9.405
9.522
9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

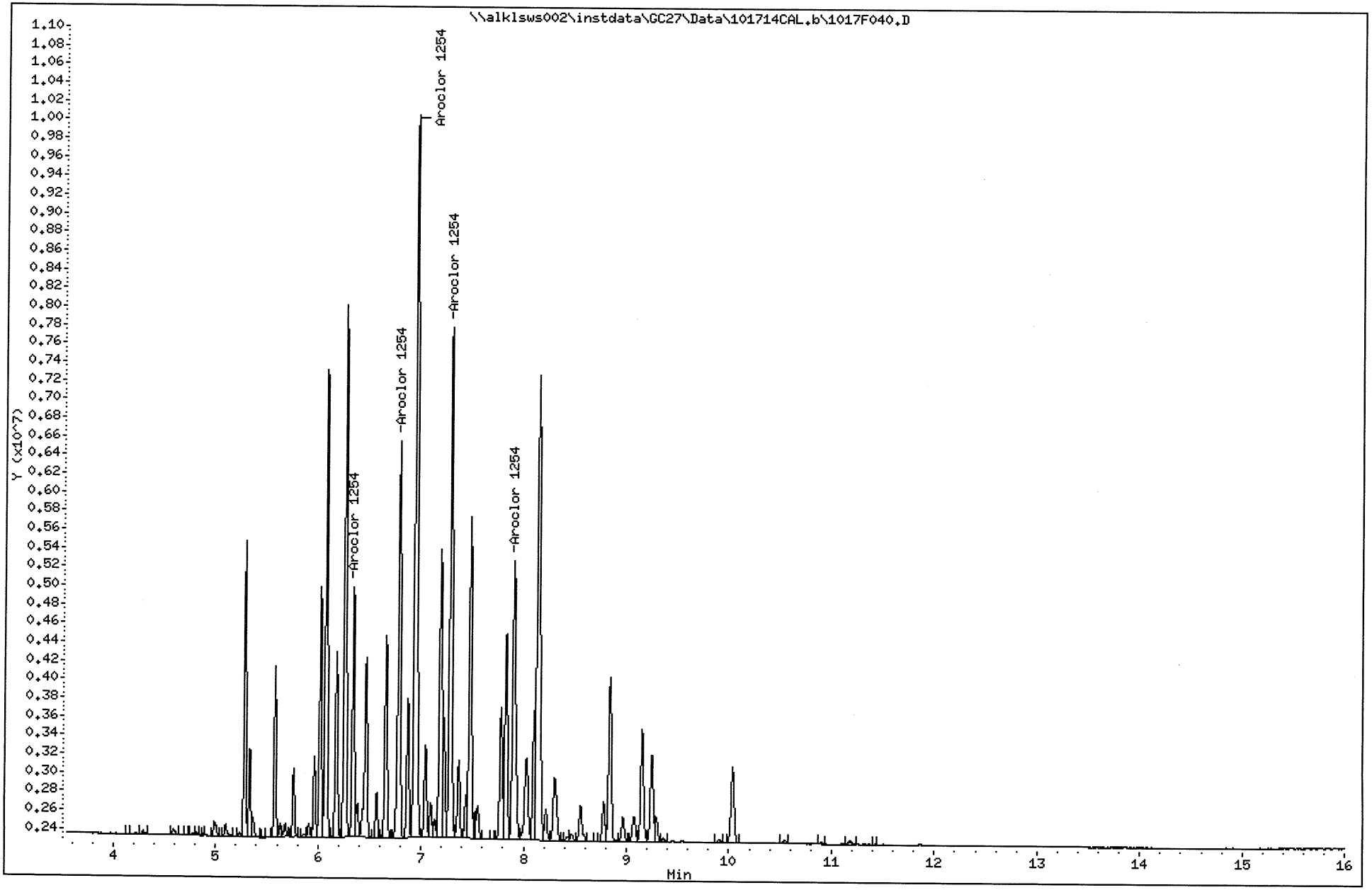
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



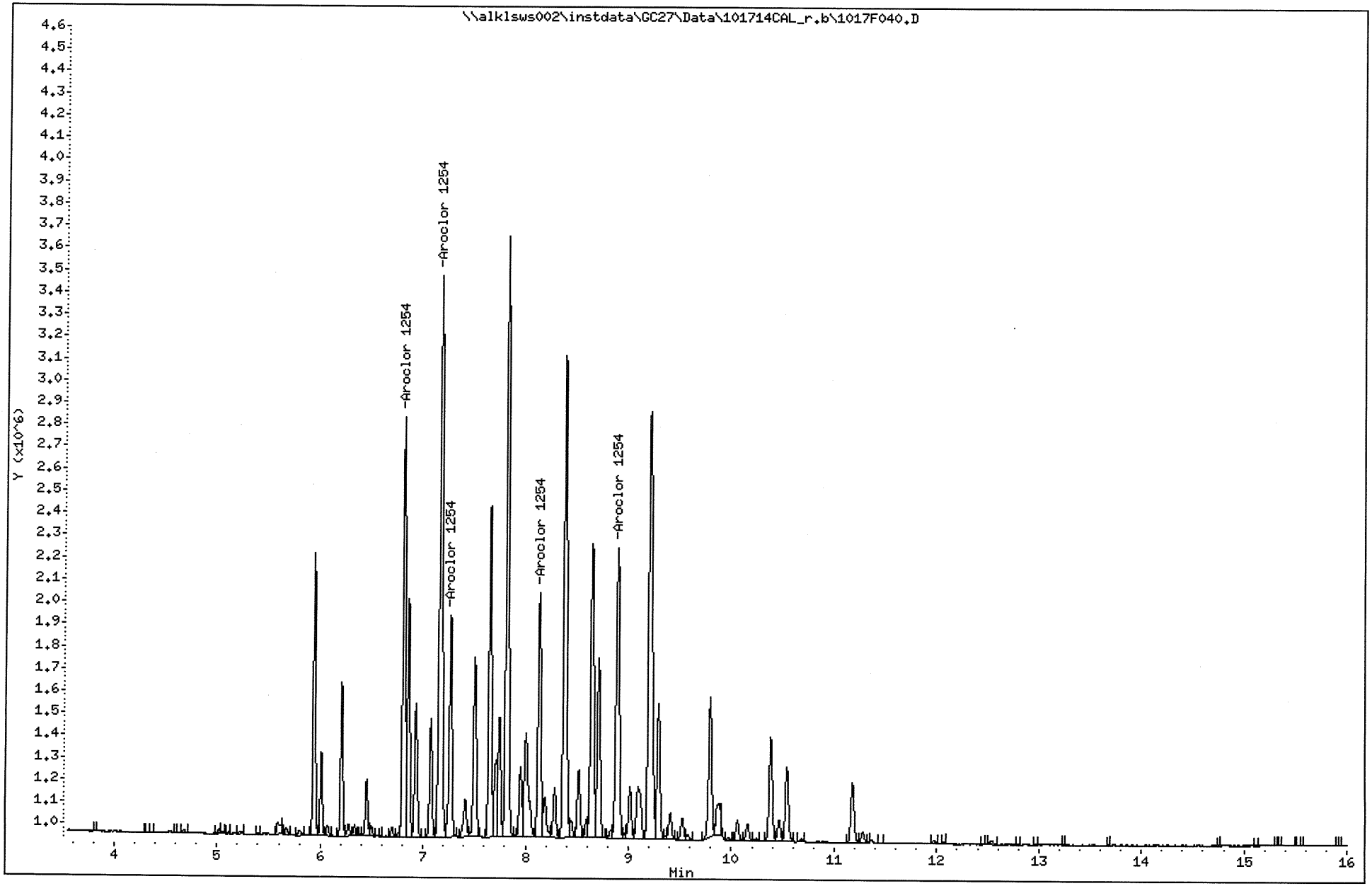
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

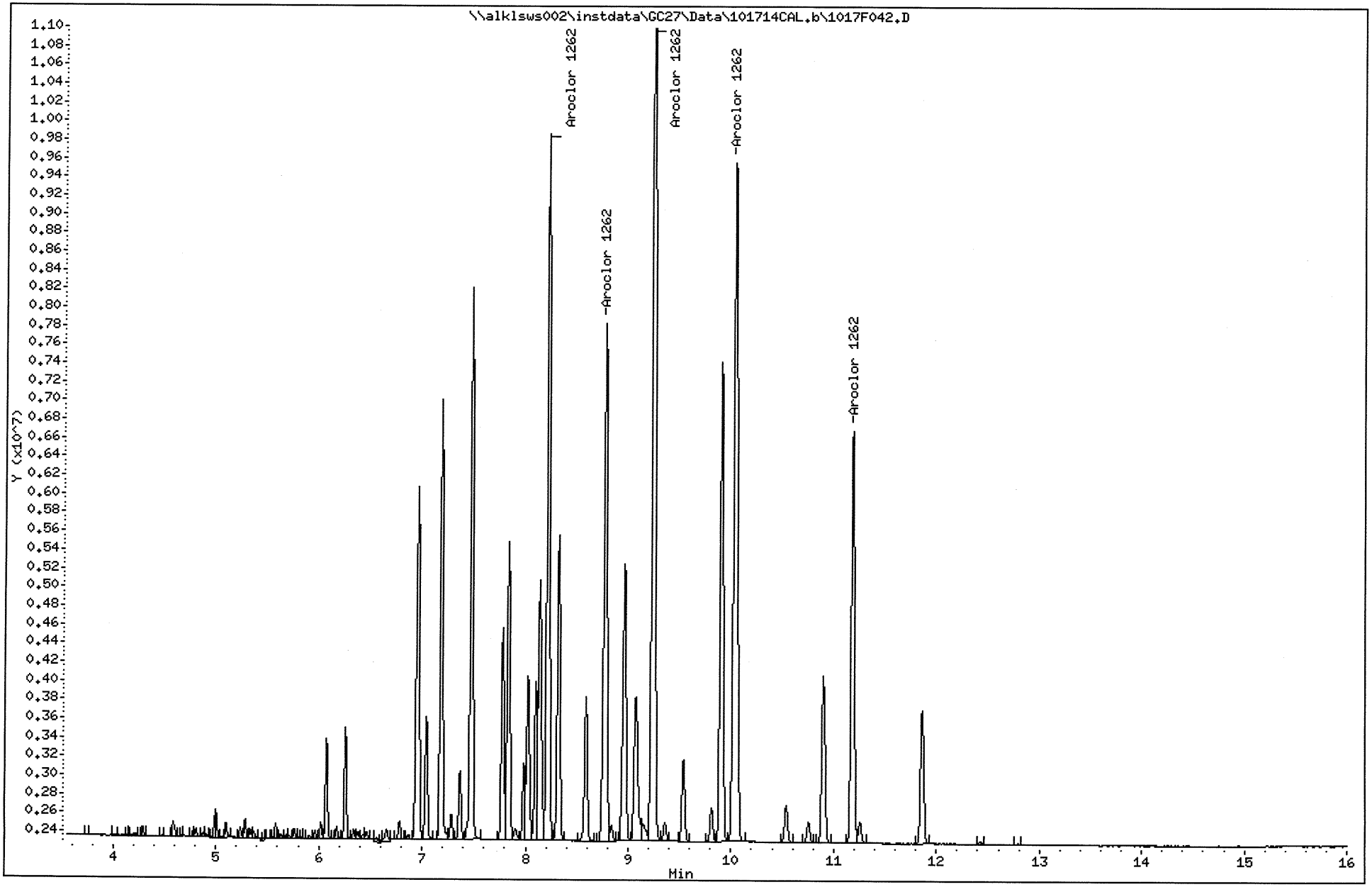
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



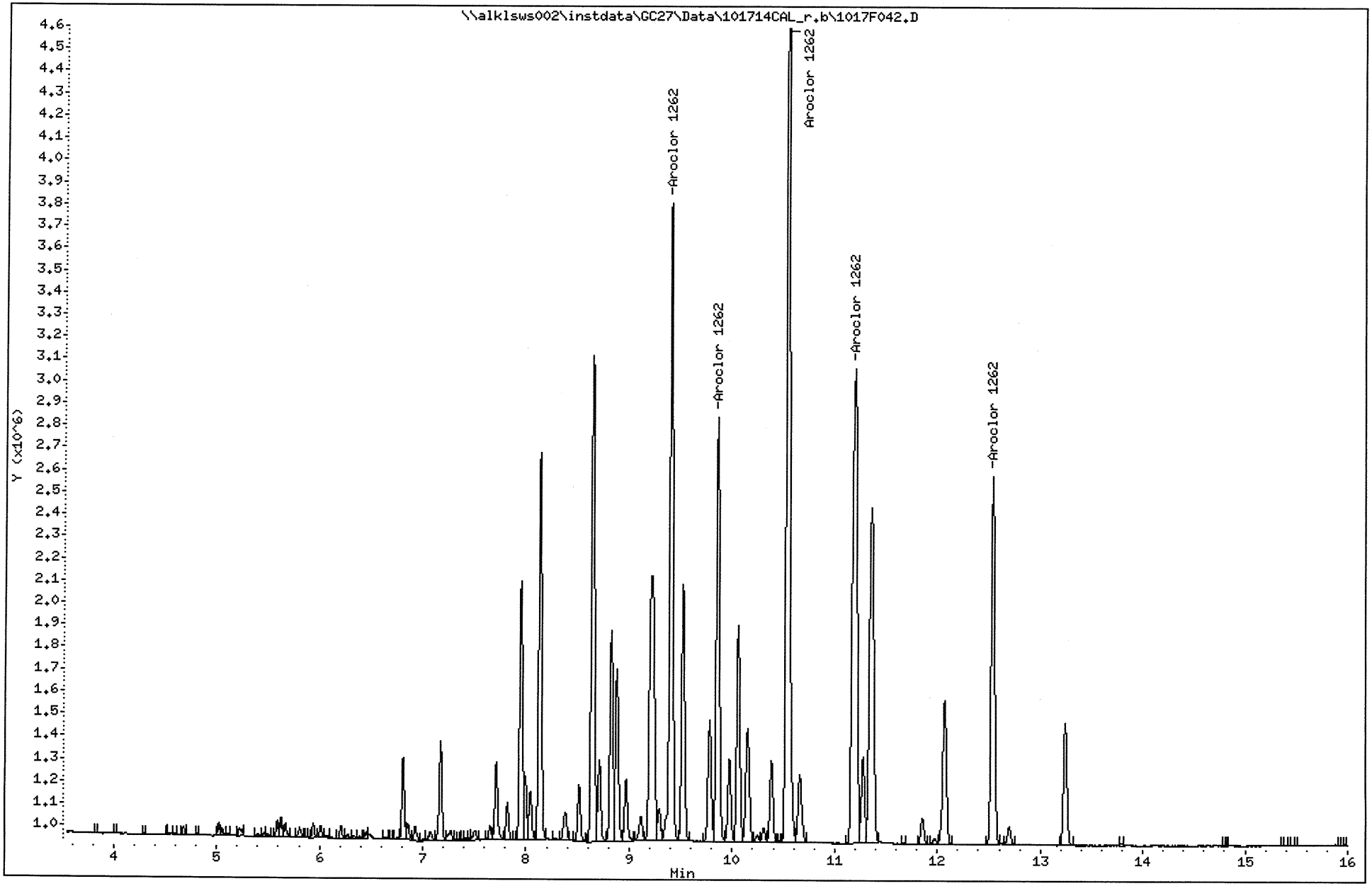
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

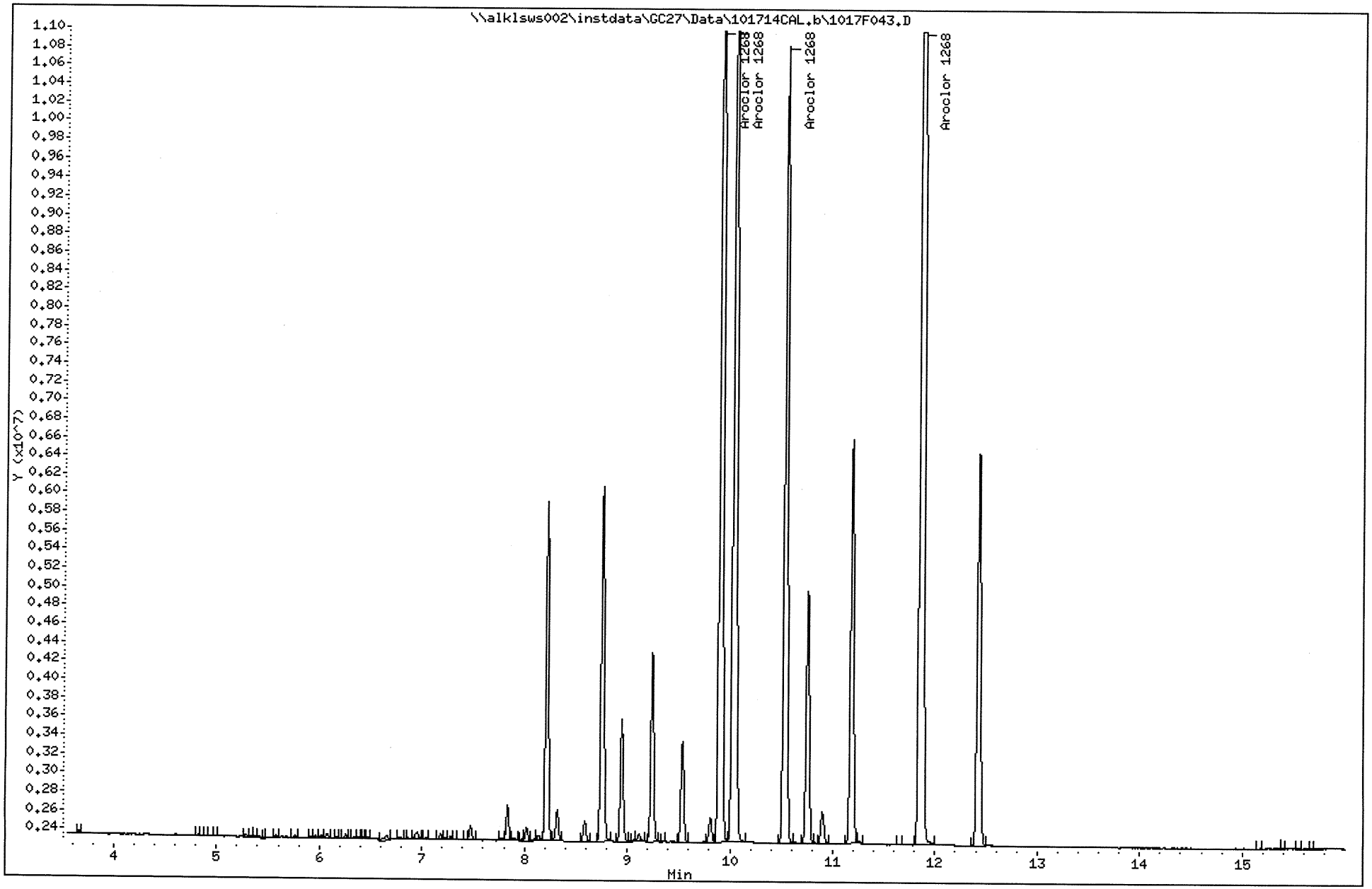
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

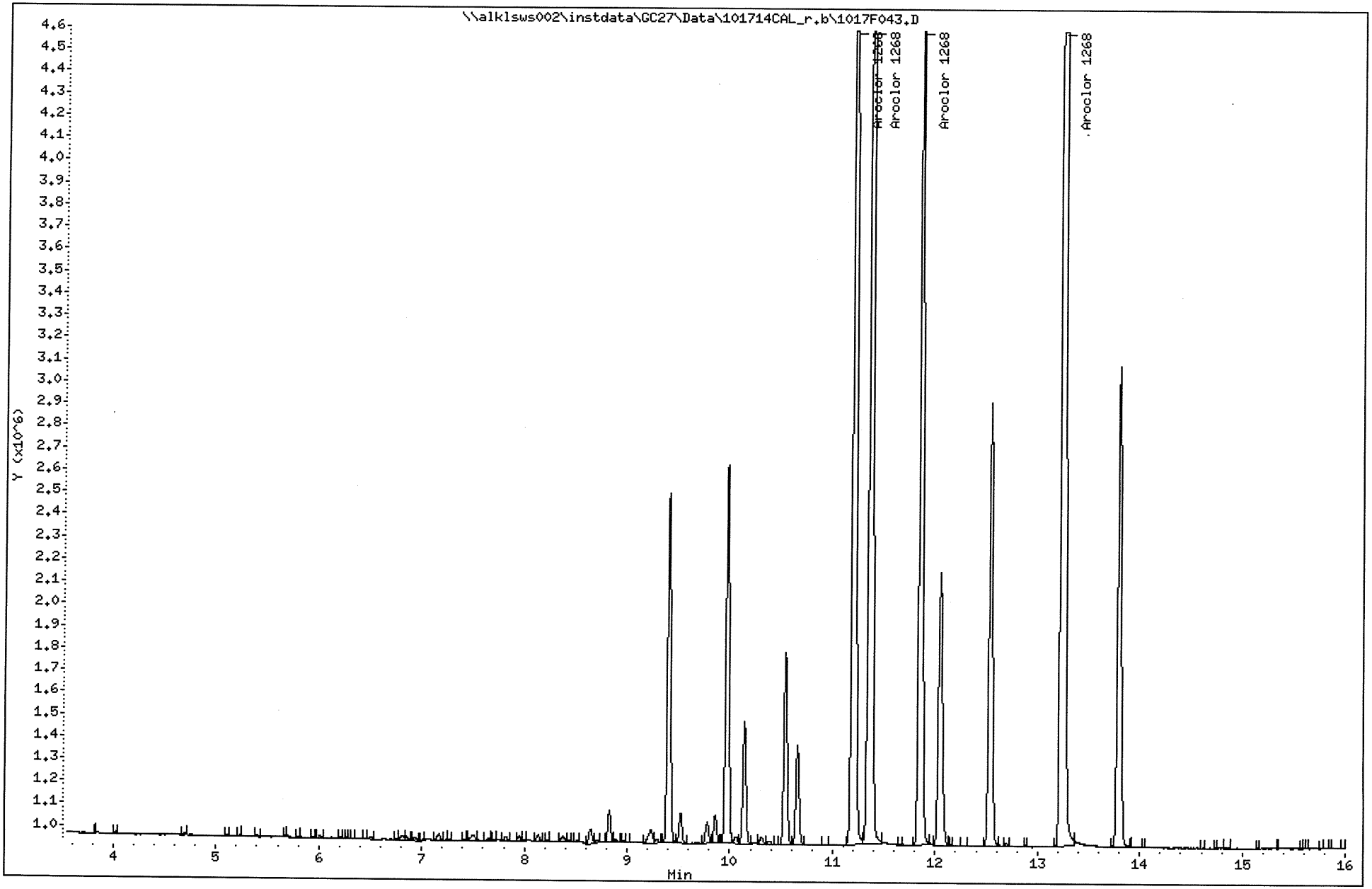


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

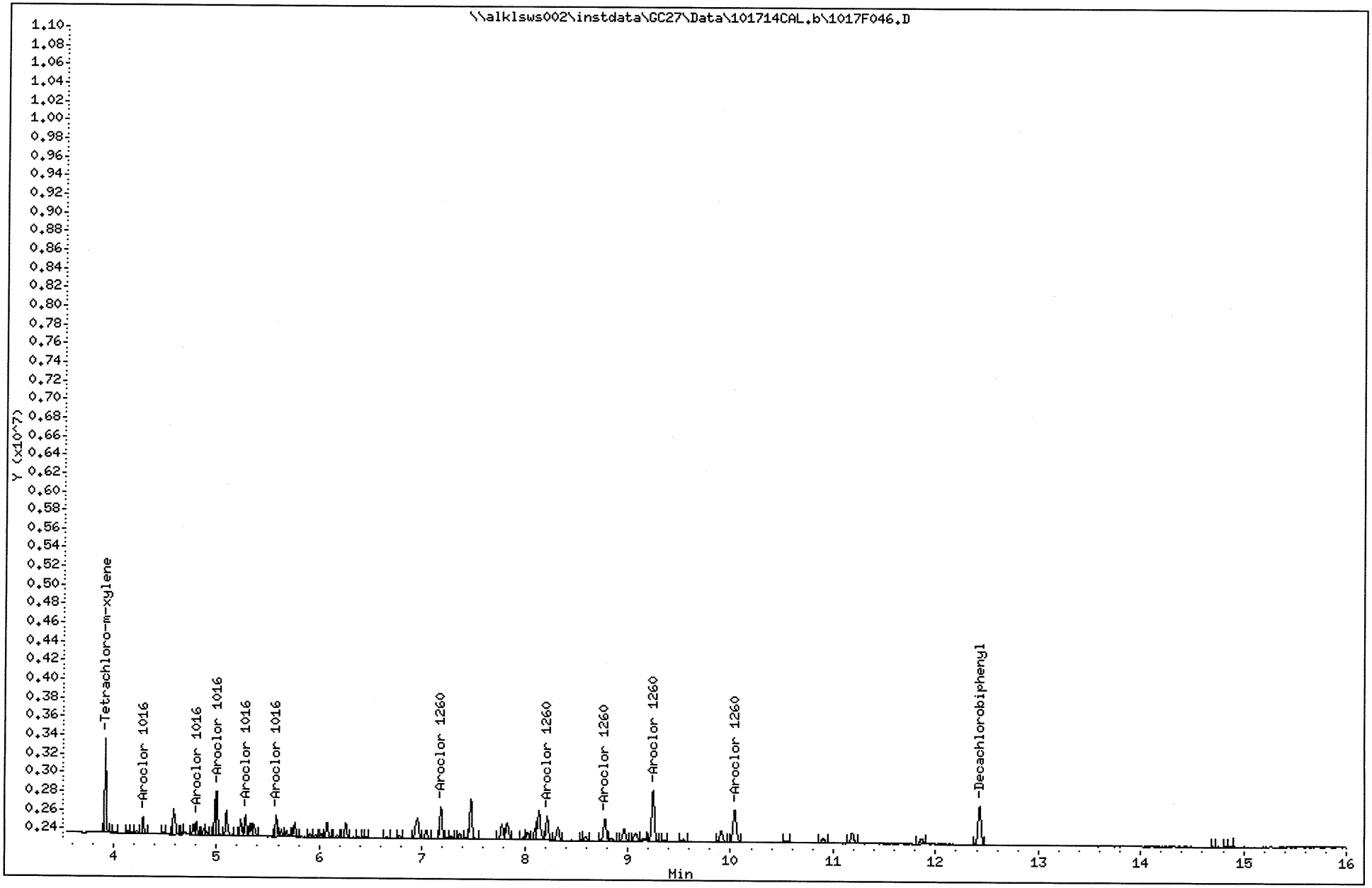
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

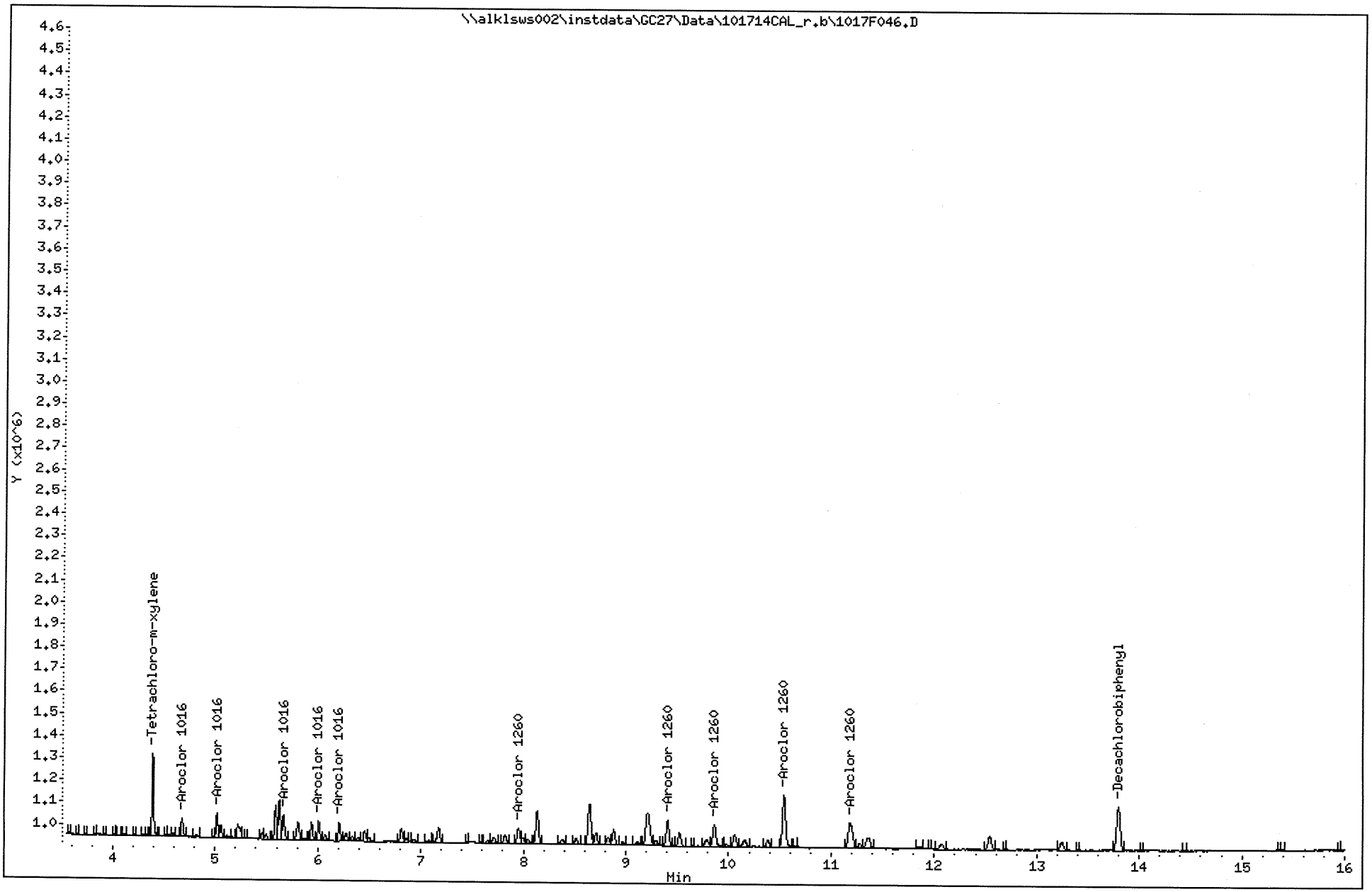


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

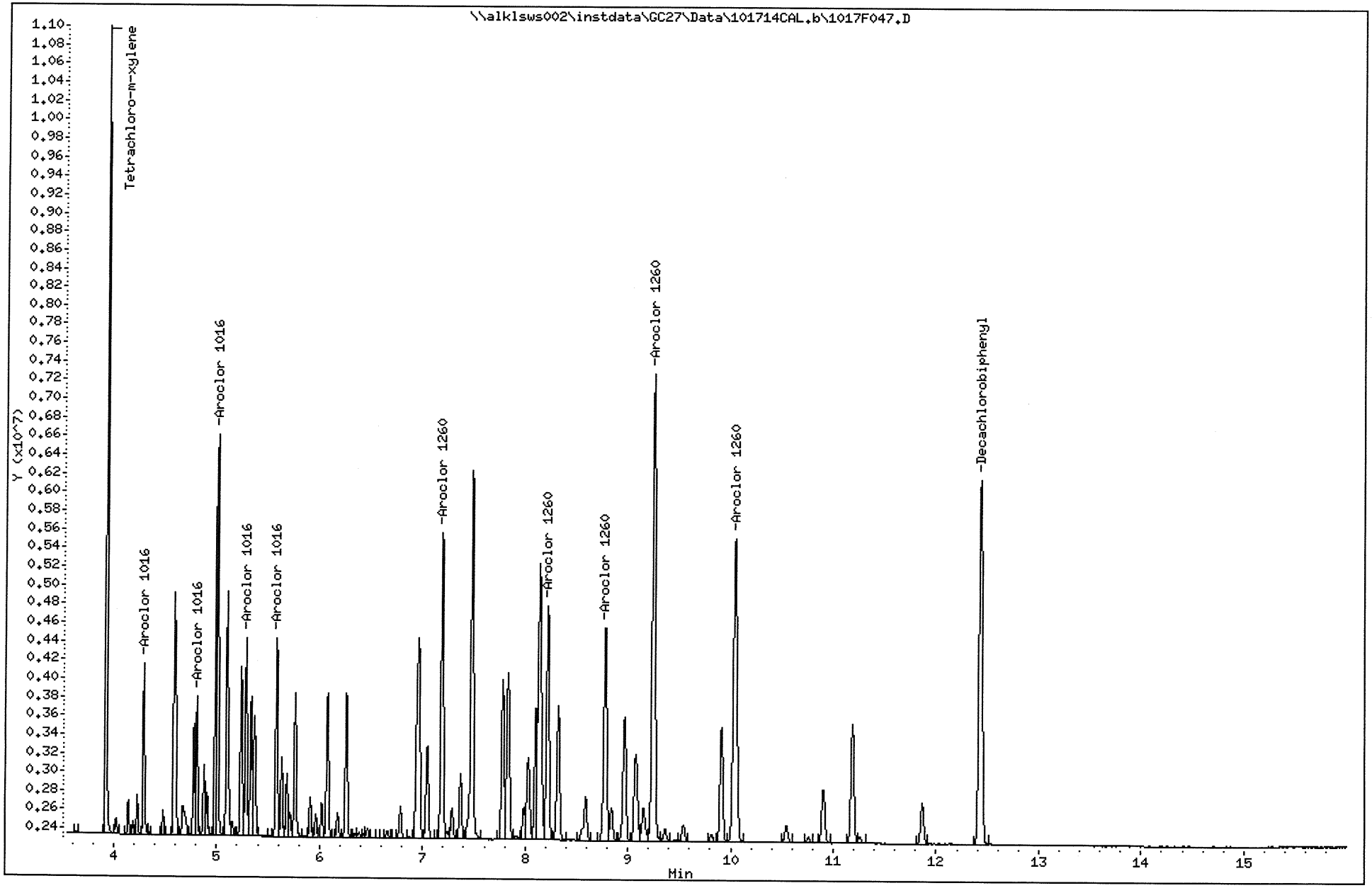
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



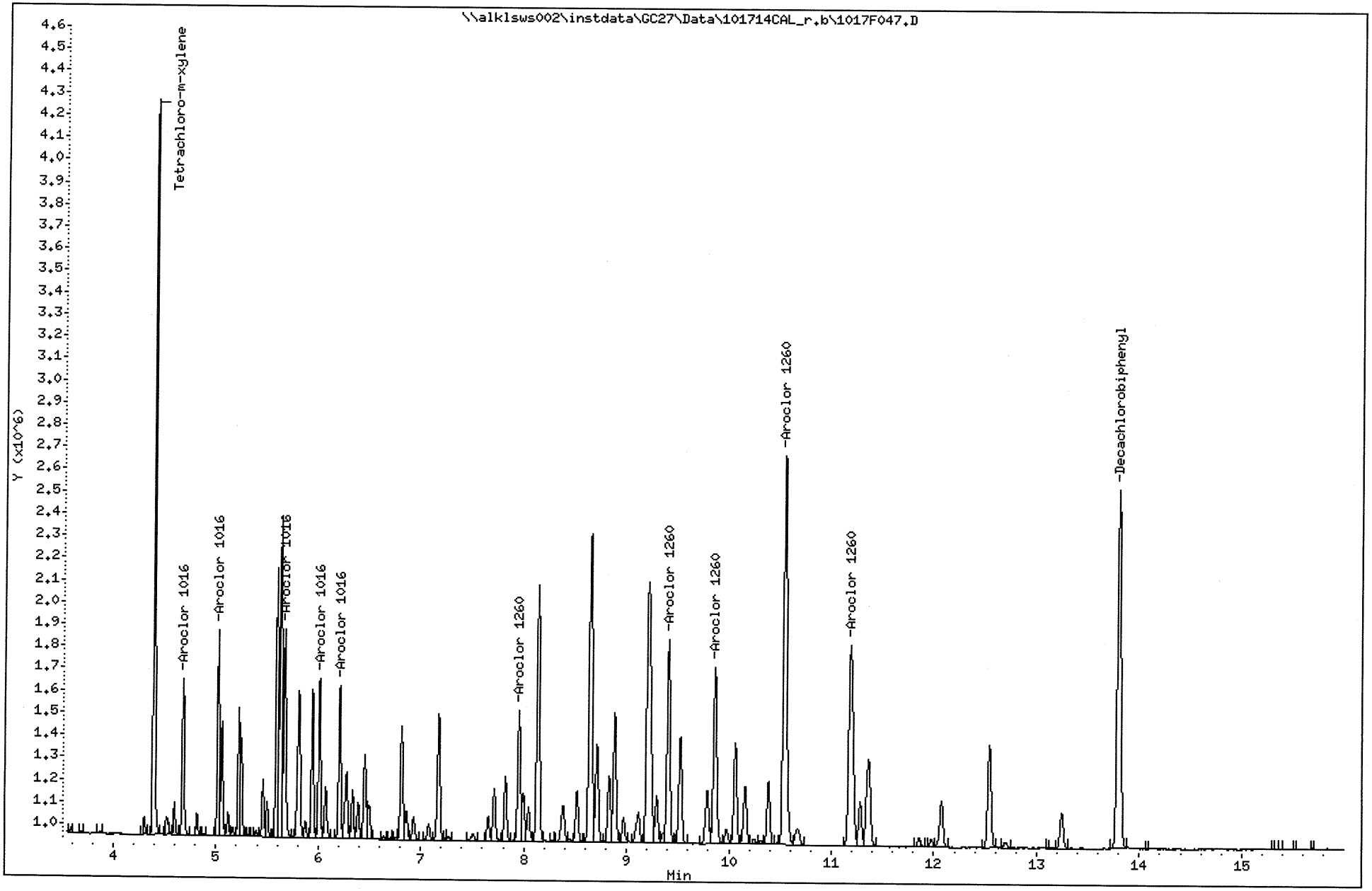
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

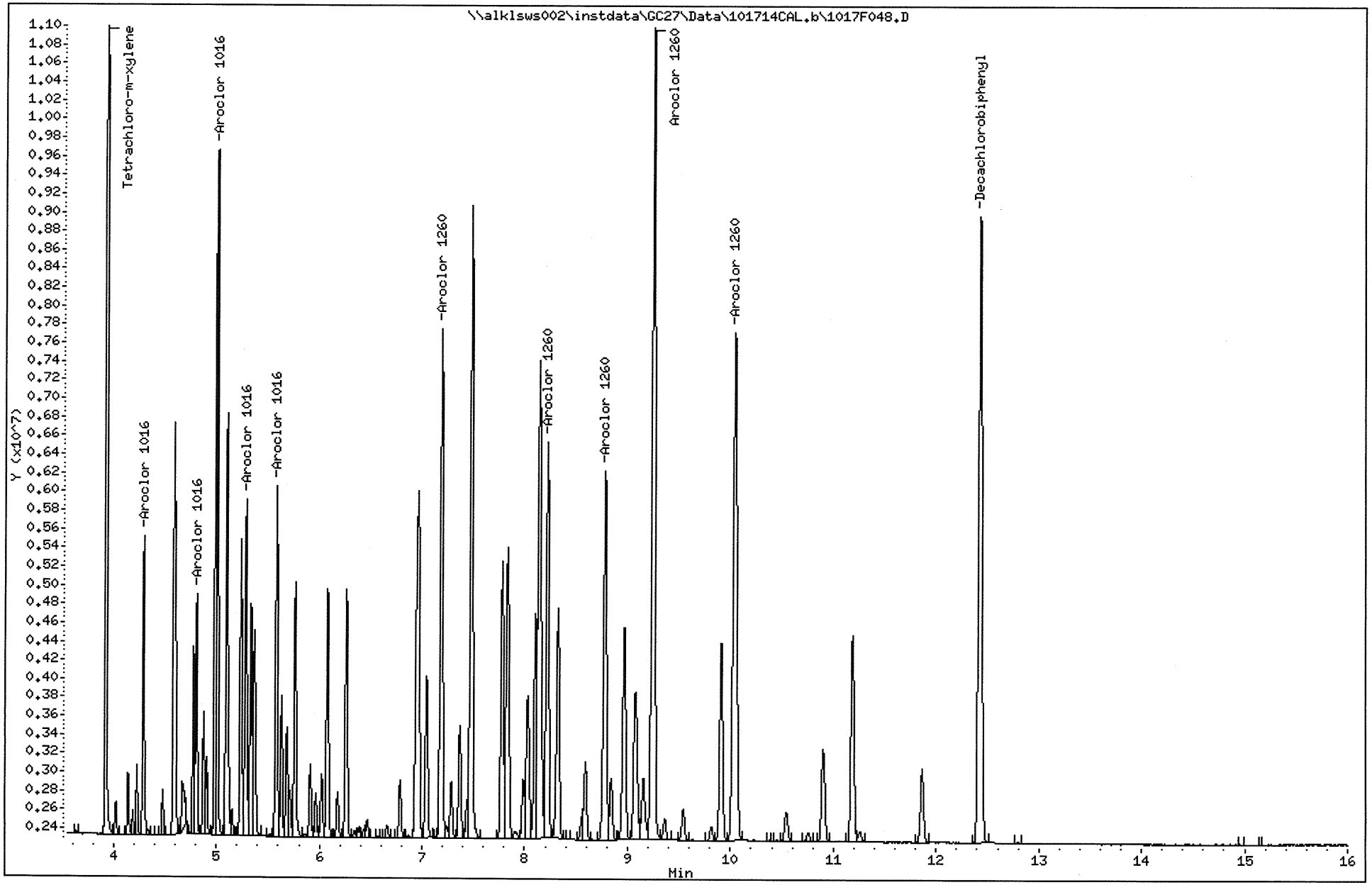
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



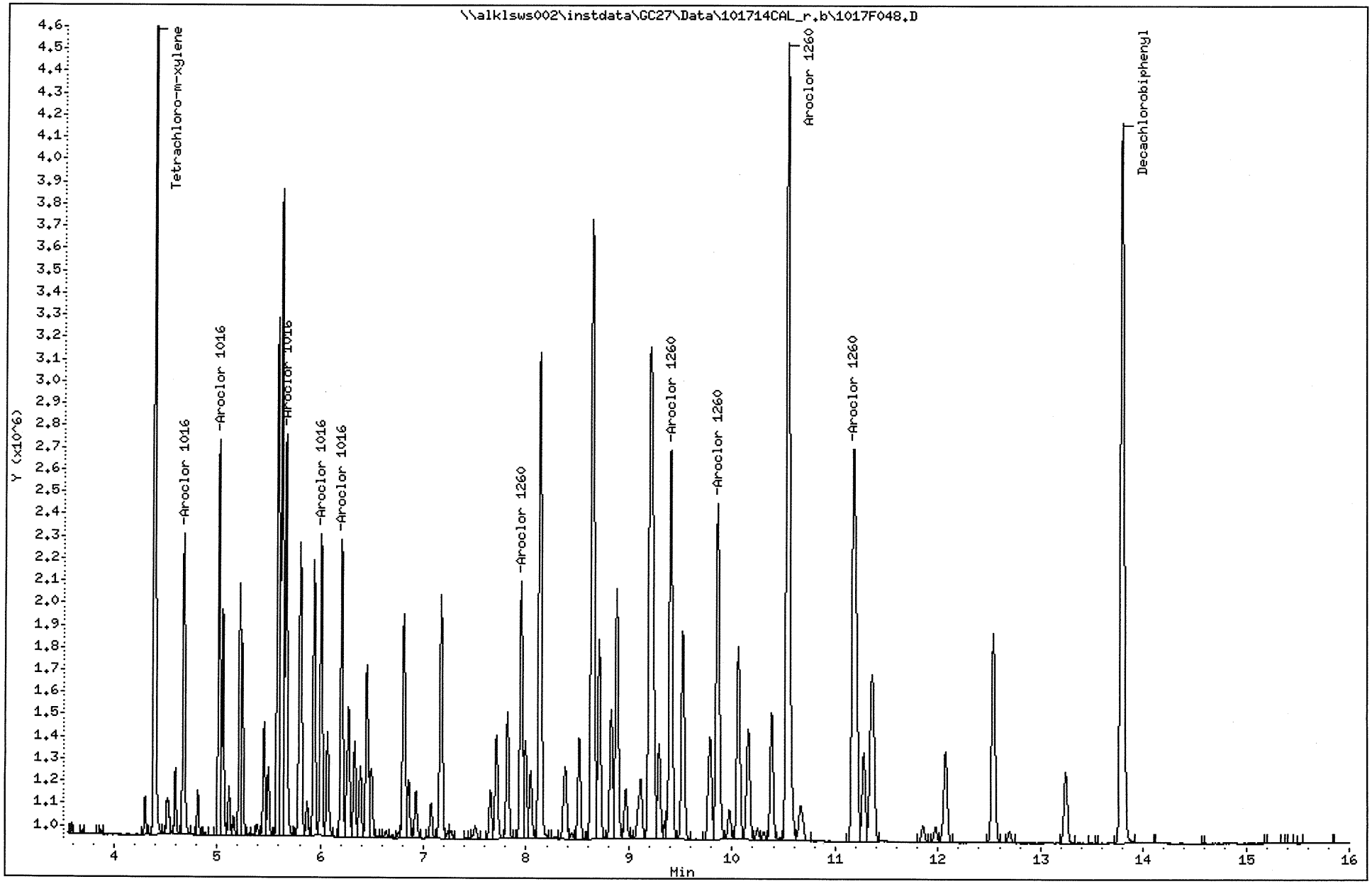
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

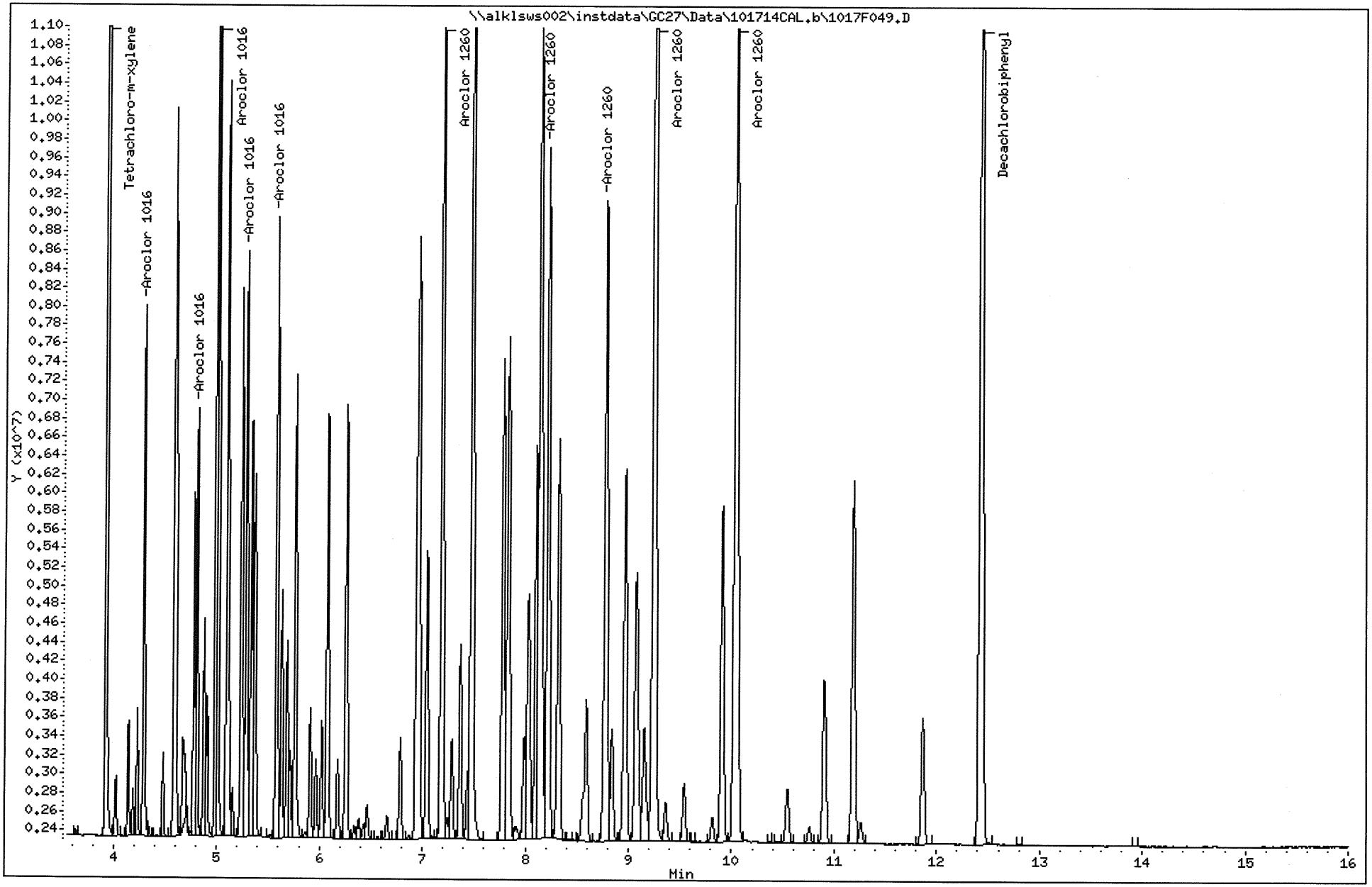
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

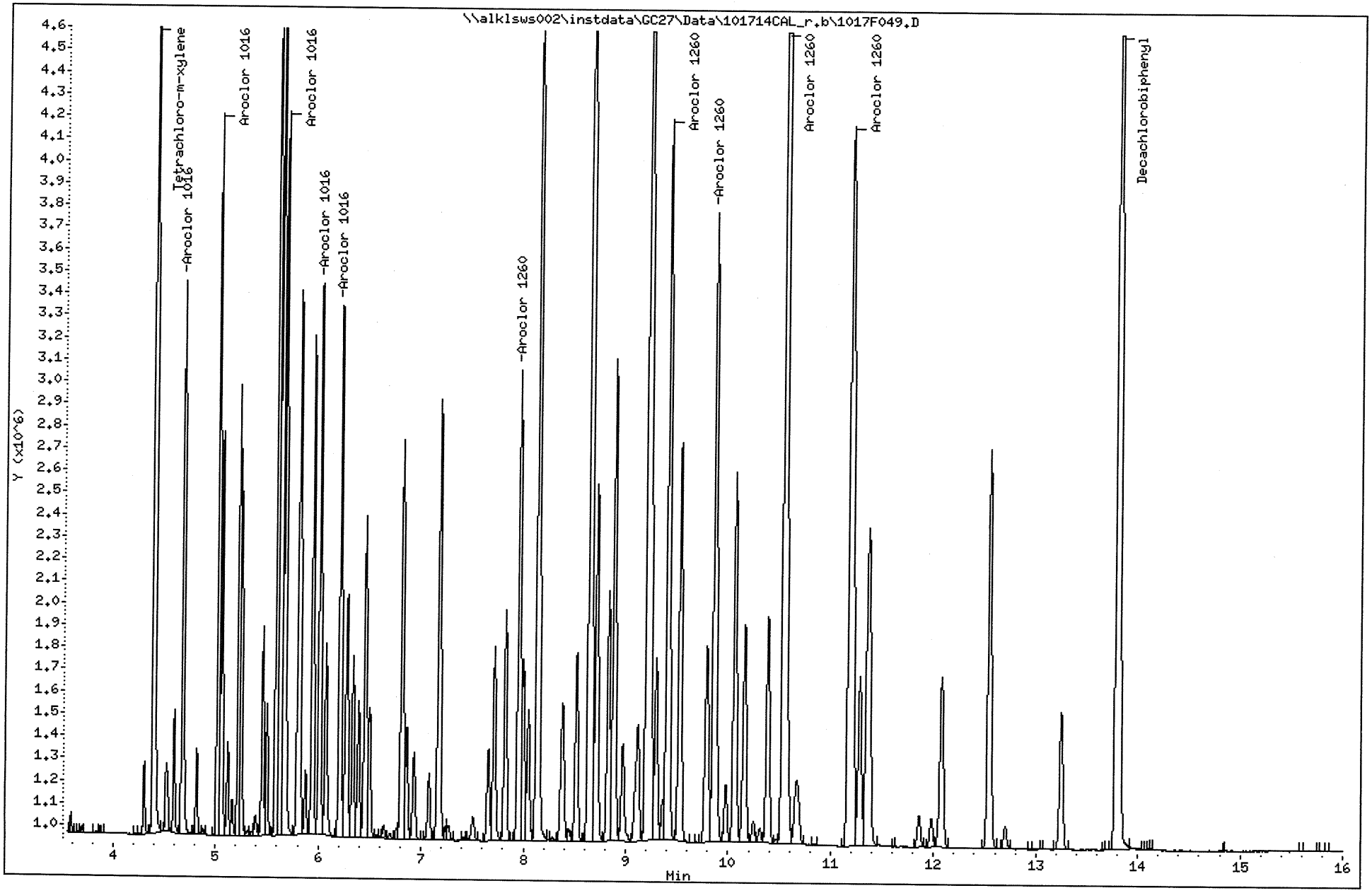


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
			Average of Peak Amounts =		4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
			Average of Peak Amounts =		4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

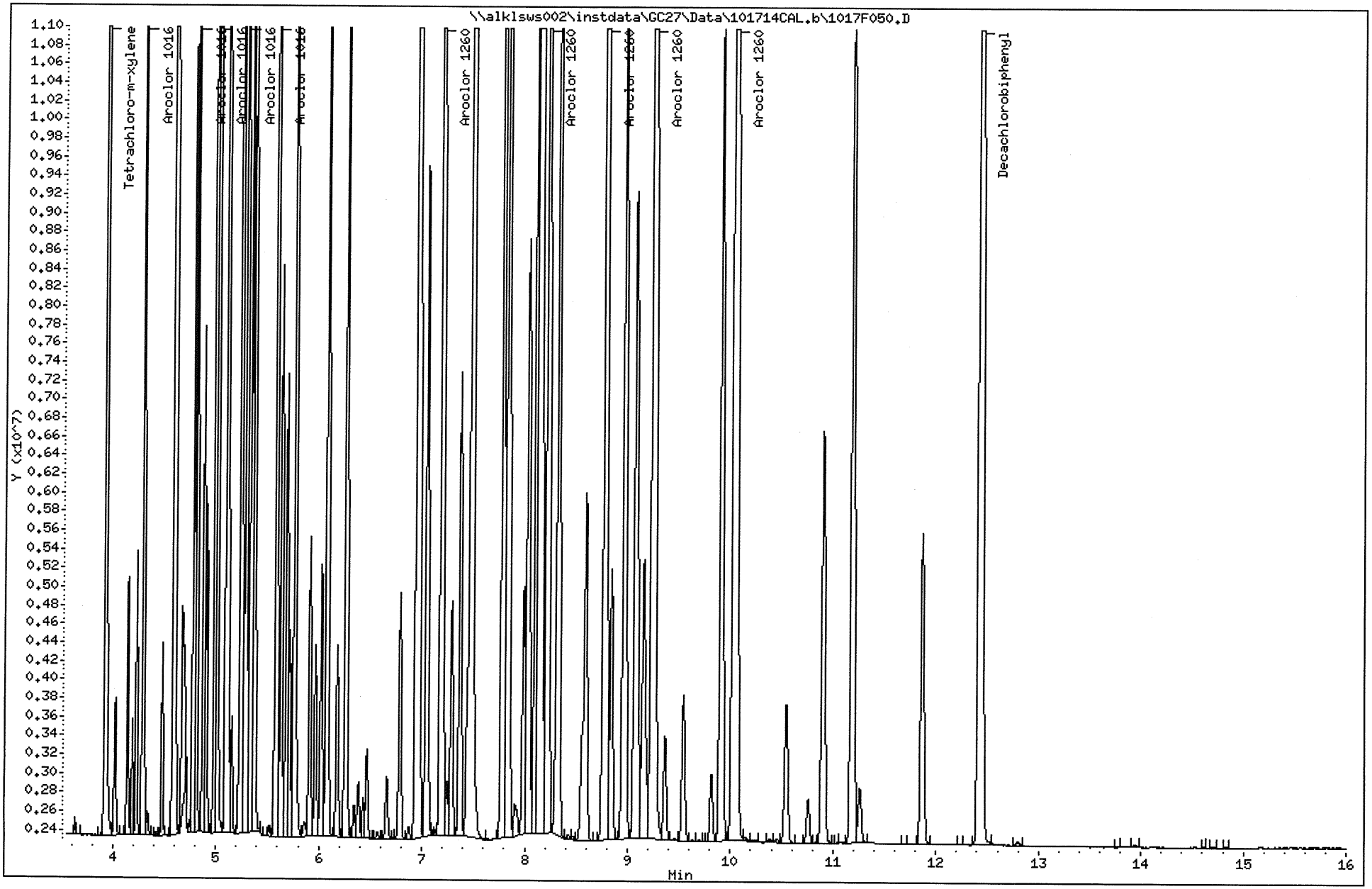
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

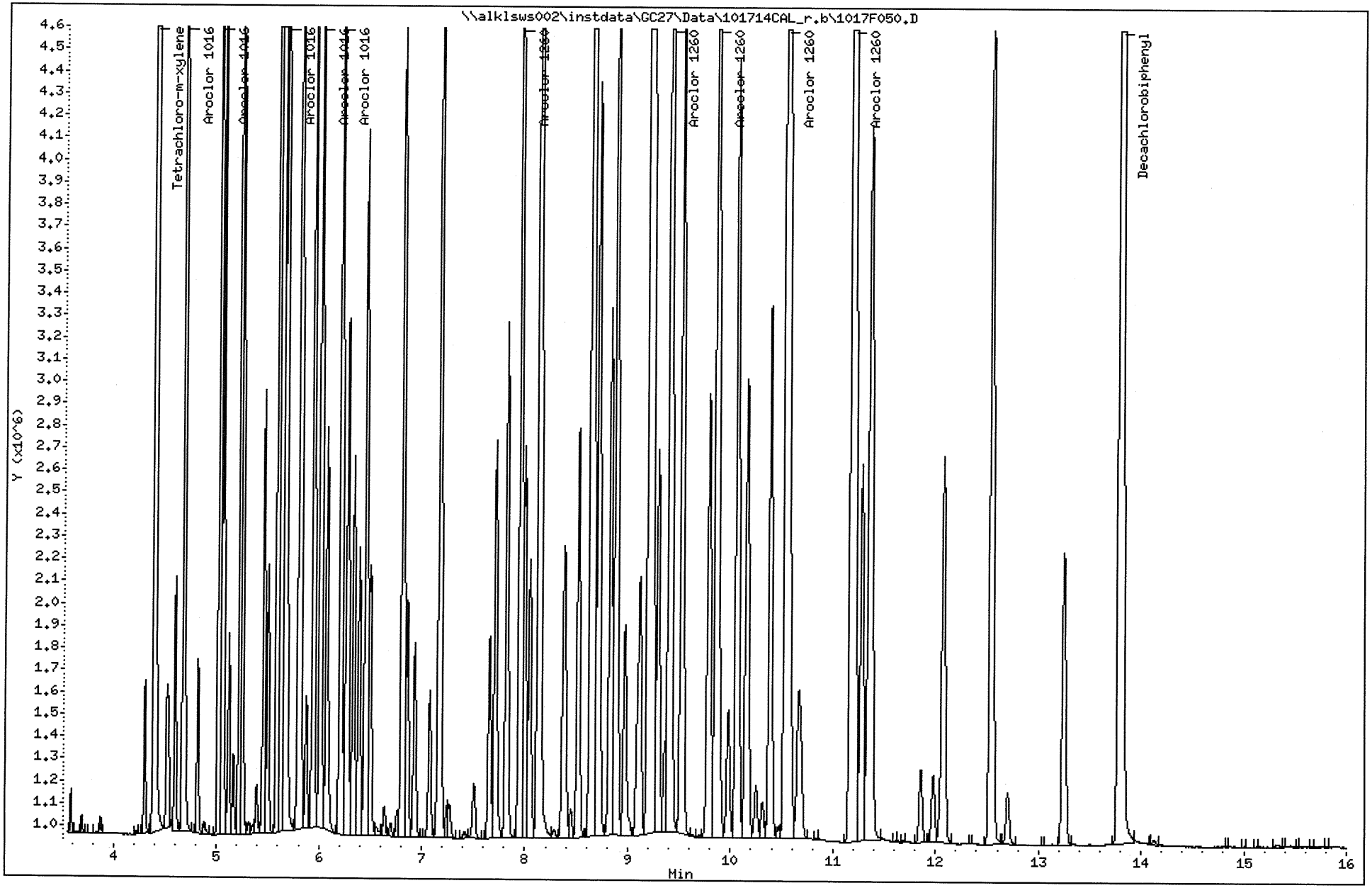


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

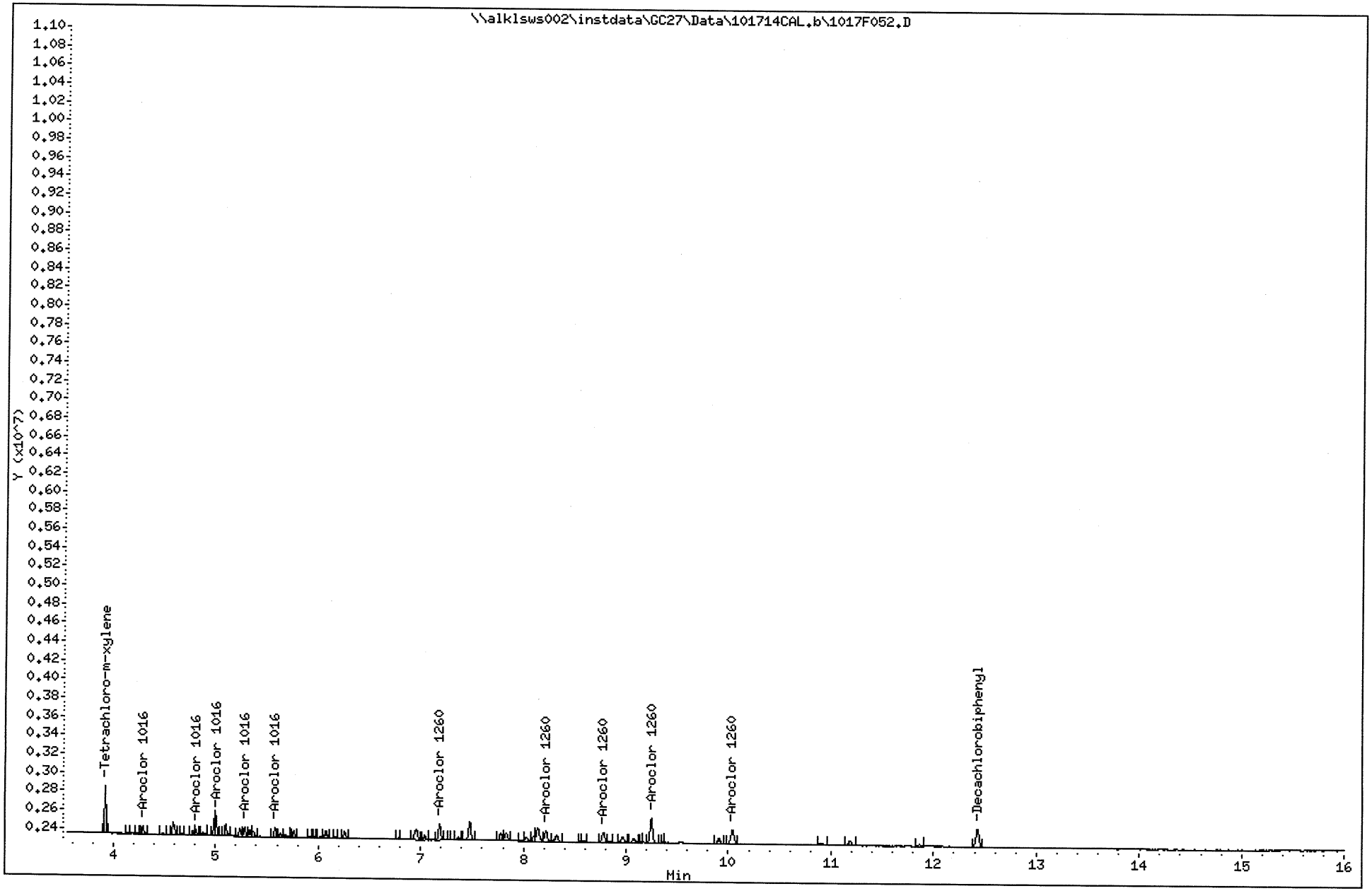
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



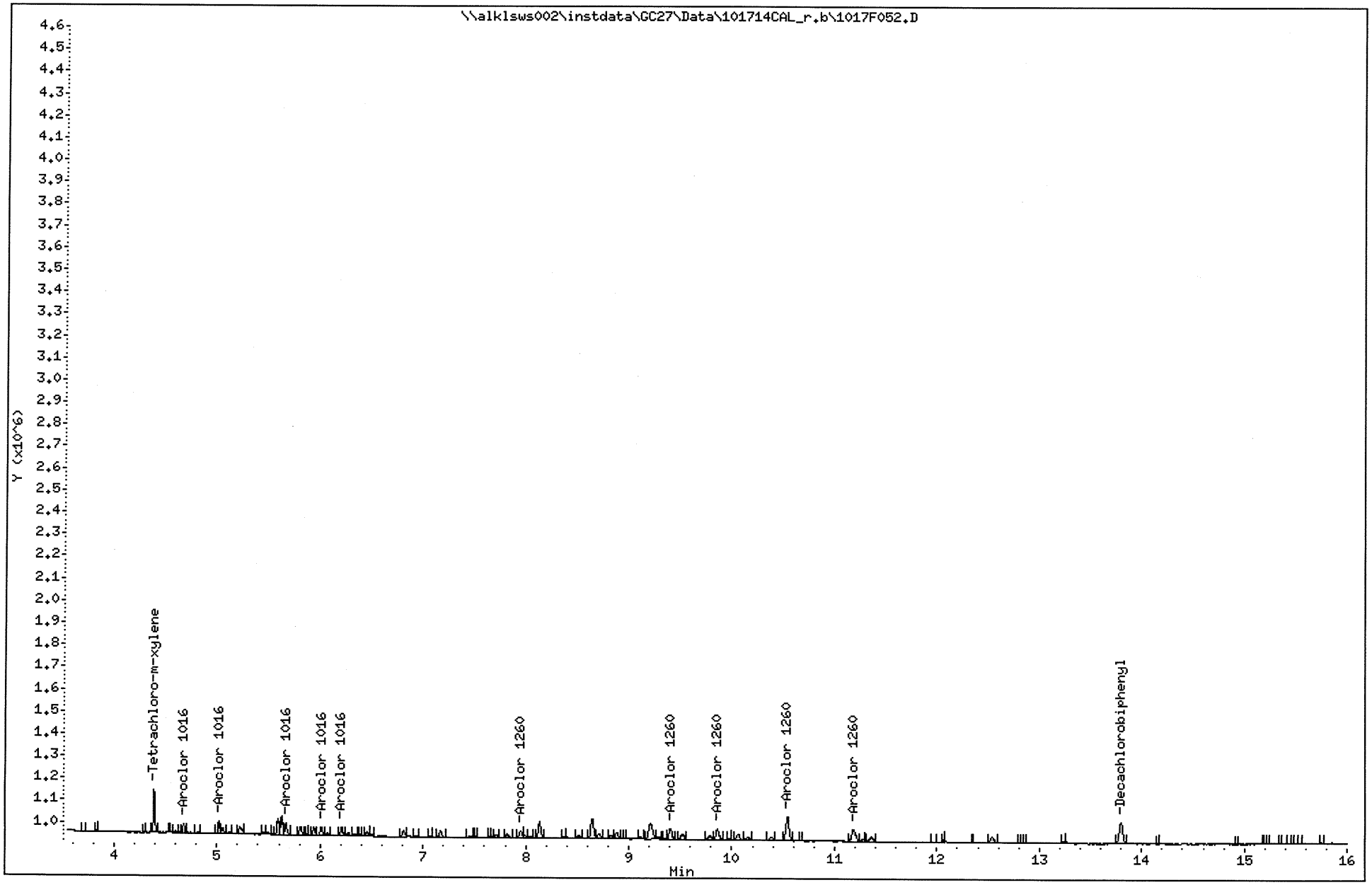
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

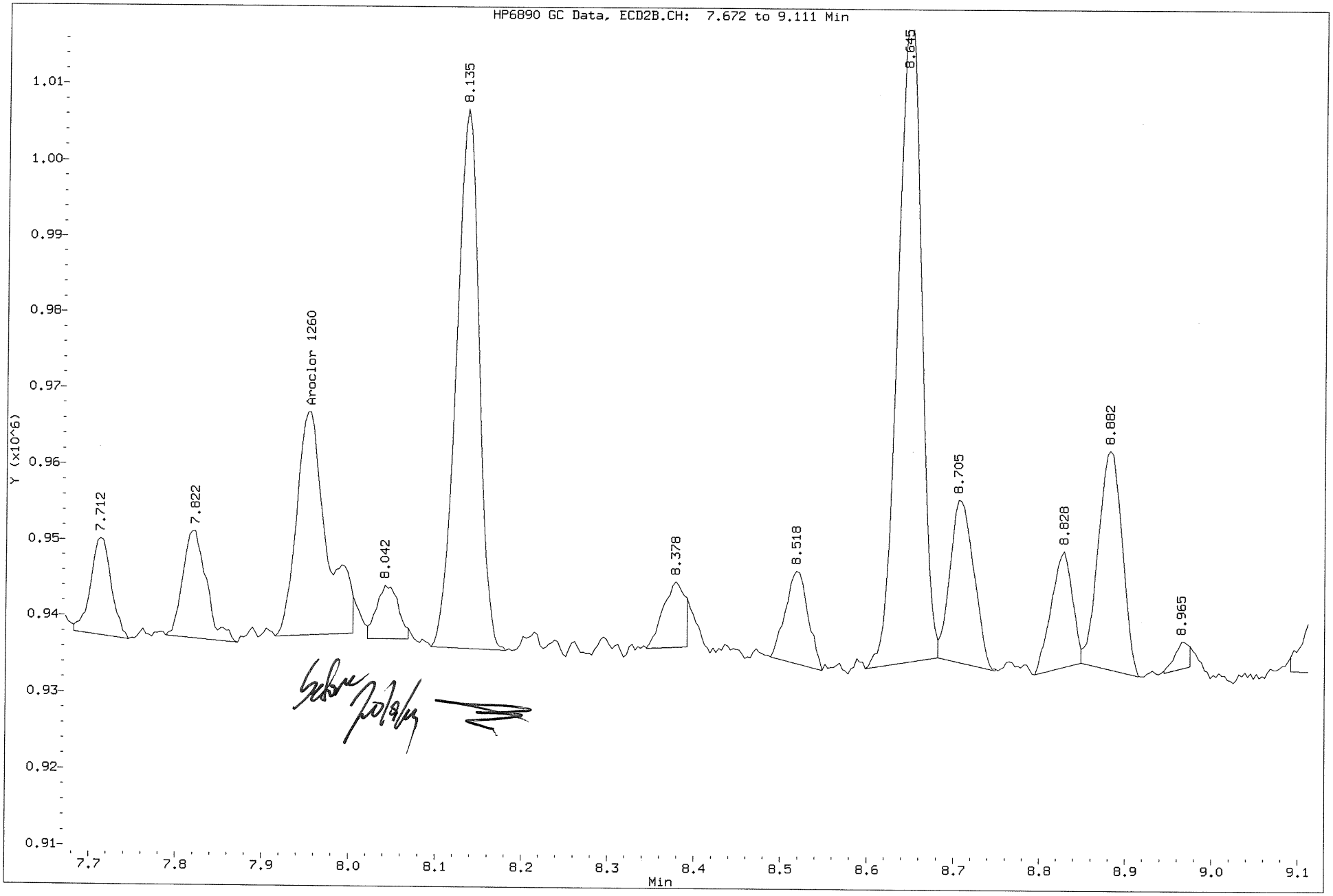
Operator: JHSmith

Column phase: DB-XLB

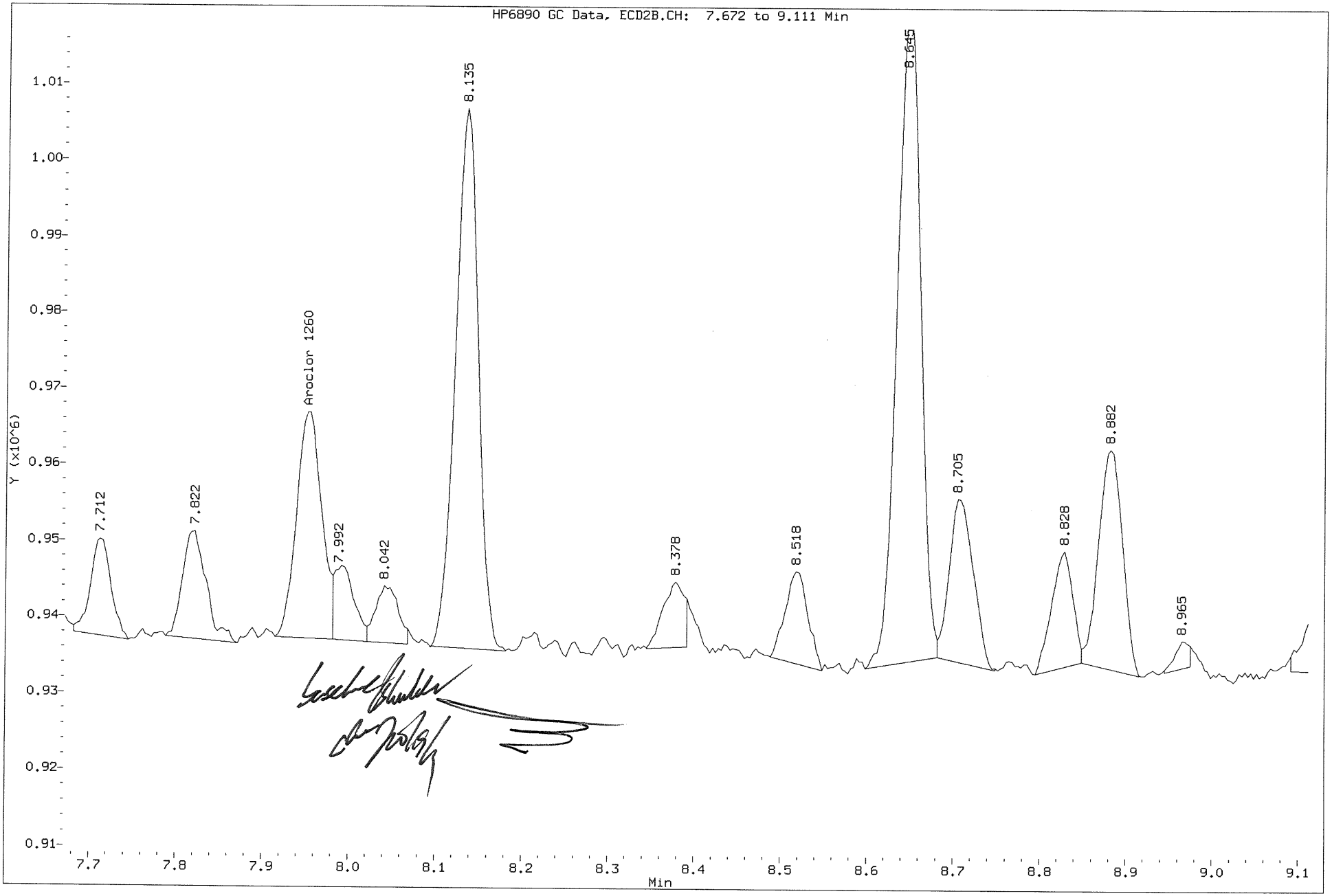
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

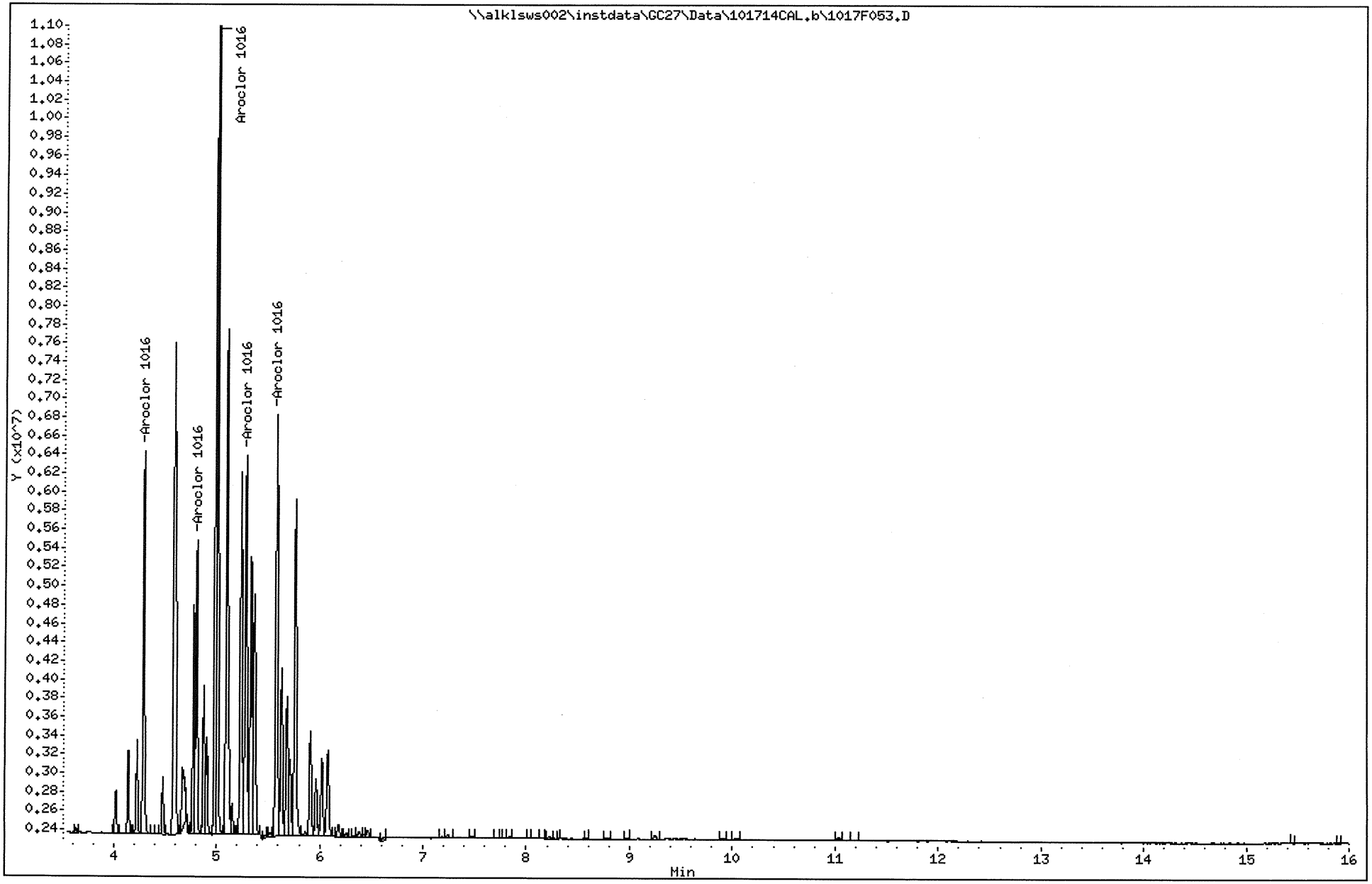
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



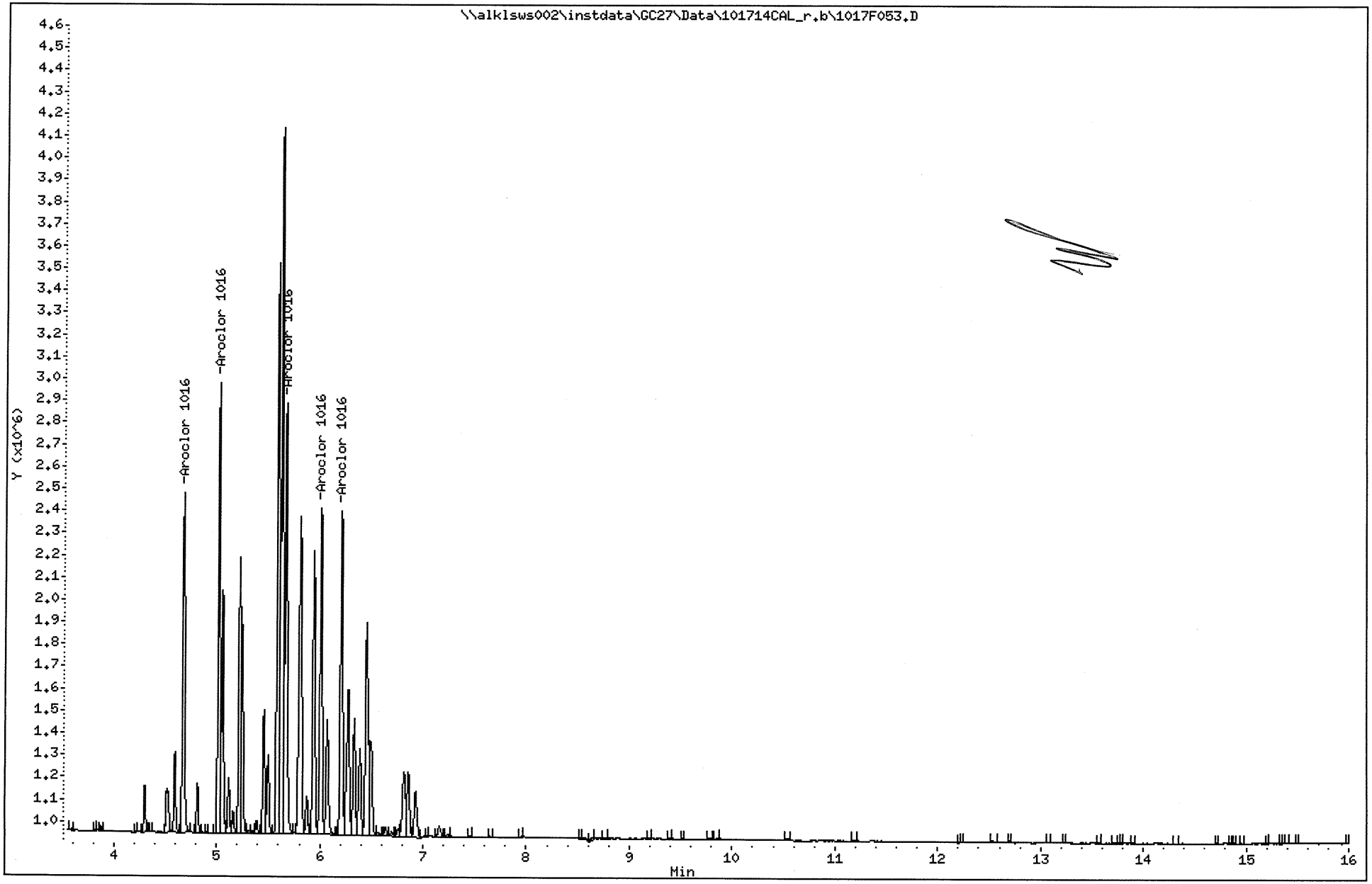
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

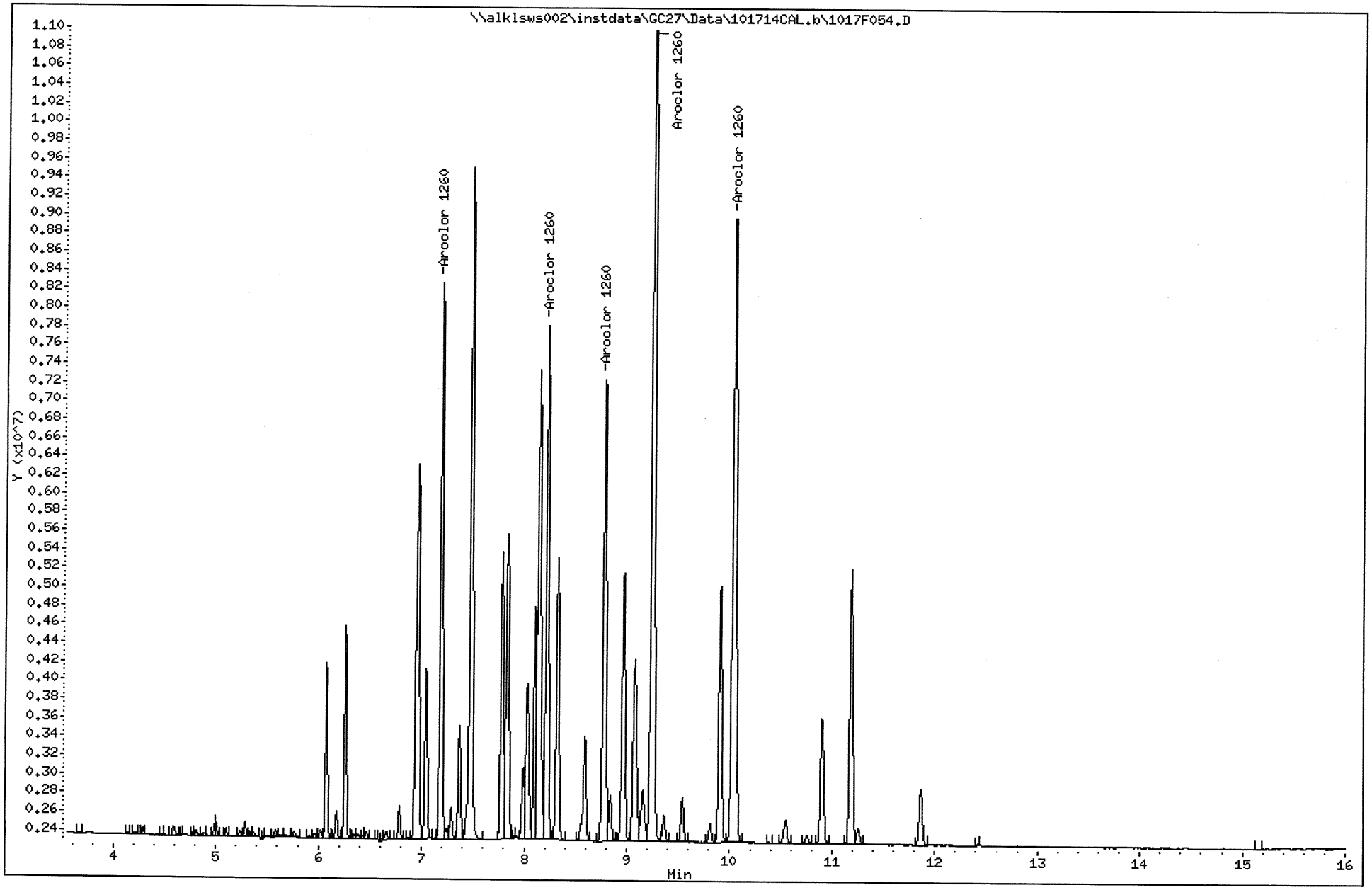
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



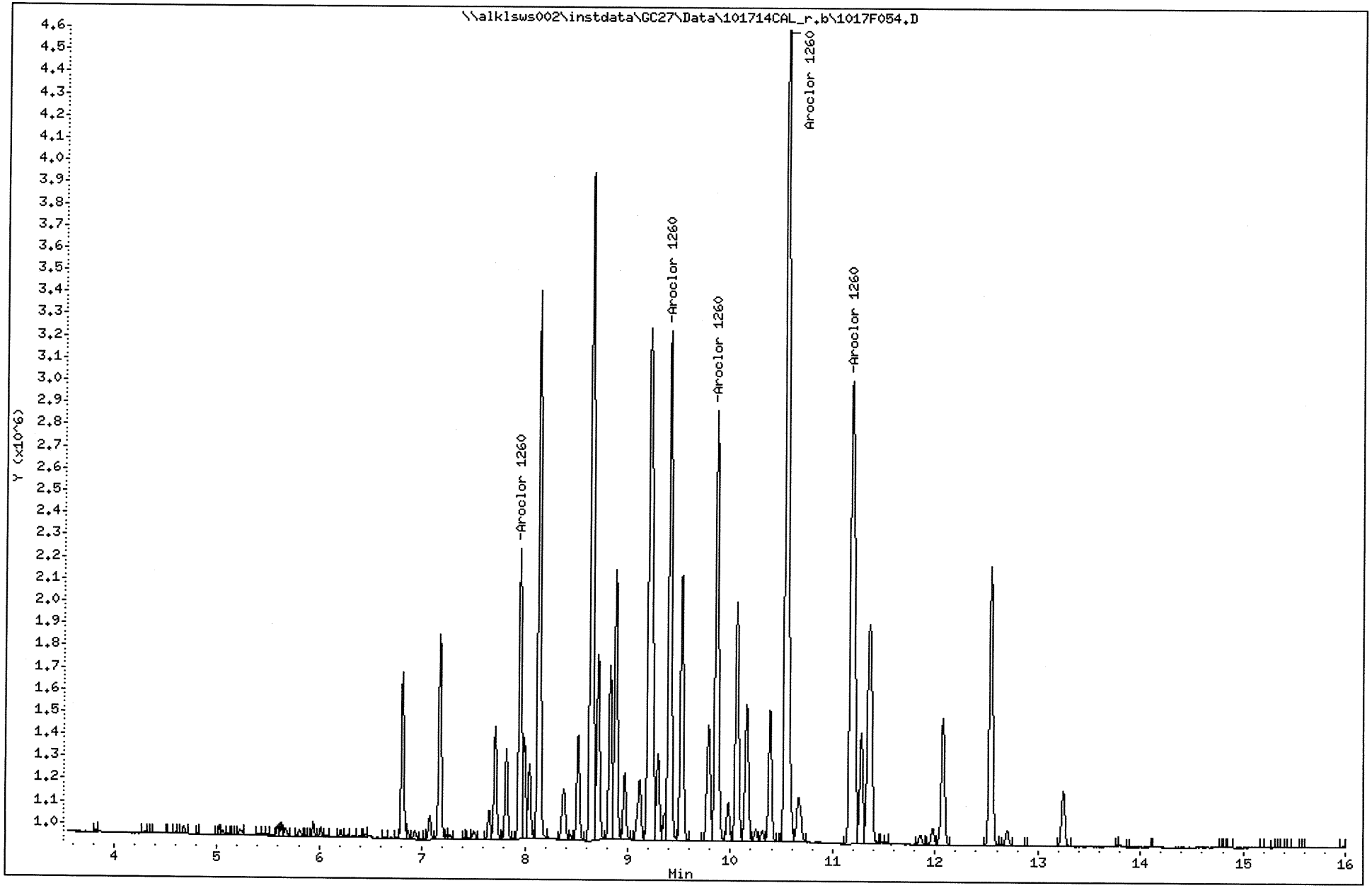
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



DILUTION LOG

LAB ID	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	ANALYST	SOLVENT LOT	COMMENTS
K1509213-003	10µL	1000µL	100X	09/23/15	MR	HEX: 101242	Target analyte overrange
-003 MS	↓	↓	↓	↓	↓	↓	↓
-003 DMS	↓	↓	↓	↓	↓	↓	↓
K1510240-001	20µL	↓	50X	↓	↓	↓	↓

Preparation Information

Group ID:	KWG1508974	**Prep Method:**	EPA 3541	**Prep Date:**	09/18/15 14:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509213-003	BF-4 Composite	8082A PCB LL	SOIL	40.050g	4ml	
K1510240-001	UBPE-2	8082A PCB LL	SOIL	40.112g	4ml	
KWG1508974-1	Matrix Spike	8082A PCB LL	SOIL	40.164g	4ml	
KWG1508974-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.245g	4ml	
KWG1508974-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508974-4	Method Blank	8082A PCB LL	SOIL	40.245g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508974-1	K1509213-003	
KWG1508974-2	K1509213-003	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509213-003	1468237					LMuresan
K1510240-001	1468013					LMuresan
KWG1508974-1	1468014					LMuresan
KWG1508974-2	1468015					LMuresan
KWG1508974-3	1468016					LMuresan
KWG1508974-4	1468017					LMuresan

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Elissa Bruno Date: 9-23-15 Storage:

Chain of Custody

Relinquished By: Date: 9-22-15

Received By: MR Date: 09/23/15 0950 Extracts Examined Yes No

Preparation Information

Group ID: KWG1508974 **Prep Method:** EPA 3541 **Prep Date:** 09/18/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. mL	Final Vol. mL	Surr. Added µL	Spike Added µL
1 *	K1509213-003	BF-4 Composite	.01	✓	8082A PCB LL	SOIL	40.050	N/A	10	4	200	–
2 *	K1510240-001	UBPE-2	.01	✓	8082A PCB LL	SOIL	40.112		10	4		–
3 *	KWG1508974-1	Matrix Spike K1509213-3	.01	✓	8082A PCB LL	SOIL	40.164		10	4		100
4 *	KWG1508974-2	Duplicate Matrix Spike	.01	✓	8082A PCB LL	SOIL	40.245		10	4		
5 *	KWG1508974-3	Lab Control Sample	–	–	8082A PCB LL	SOIL	20.000		10	4		
6 *	KWG1508974-4	Method Blank	–	–	8082A PCB LL	SOIL	40.245		10	4		–

Comments: * sample(s) came down with an hour left in extraction phase prep run #245174

Surrogate ID: PCB6-767, 2ppm, XP 3/17/16, 200 µL, EPP 10D
Spike ID: PCB6-73E, 40ppm, XP 12/29/15, 100 µL, EPP 3D
Witness: RV. 9/18/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1510240 09213 **Work Group # Pest:** —
PCB: KWG1508974

Weighed (time/date/initial): 1400 9/18/15 LM Balance ID: K-Bal- 03 Calibration Verified ☑

Storage Location (if not extracted same day): —

DCM Lot # DN111 Sulfate Lot # K259001 Matrix Lot # 061614 Glass Wool Lot # 30714002

Soxtherm Start (time/date/initial): 1400 9/18/15 LL

Soxtherm Stop (time/date/initial): 1546 9/18/15 LL

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 3:00 9-21-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 8:20 9-22-15 K Hexane Lot# ~~108975~~ 108975
S-Evap (time/date/initial): — S-Evap Thermometer ID: EE 9-22-15 K
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 8:10 9-22-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:50 9-22-15 K Acid Lot #54344

Other Clean-up: 3660B 9-22-15 K ☑ all samples ☐ some samples: EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Mickey A1-6

Archived Extract Storage: Lonnie

Additional Comments:

Bench Sheet Review Check List
☑ Hold times met (if no, reason:)
☑ Prep date, time, method, department, product code correct in stealth
☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked - bottle numbers appended if required
☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high %RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Page: 1

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high 70, reaches standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50 ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696

Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *→	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ 20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*→ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *2C
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

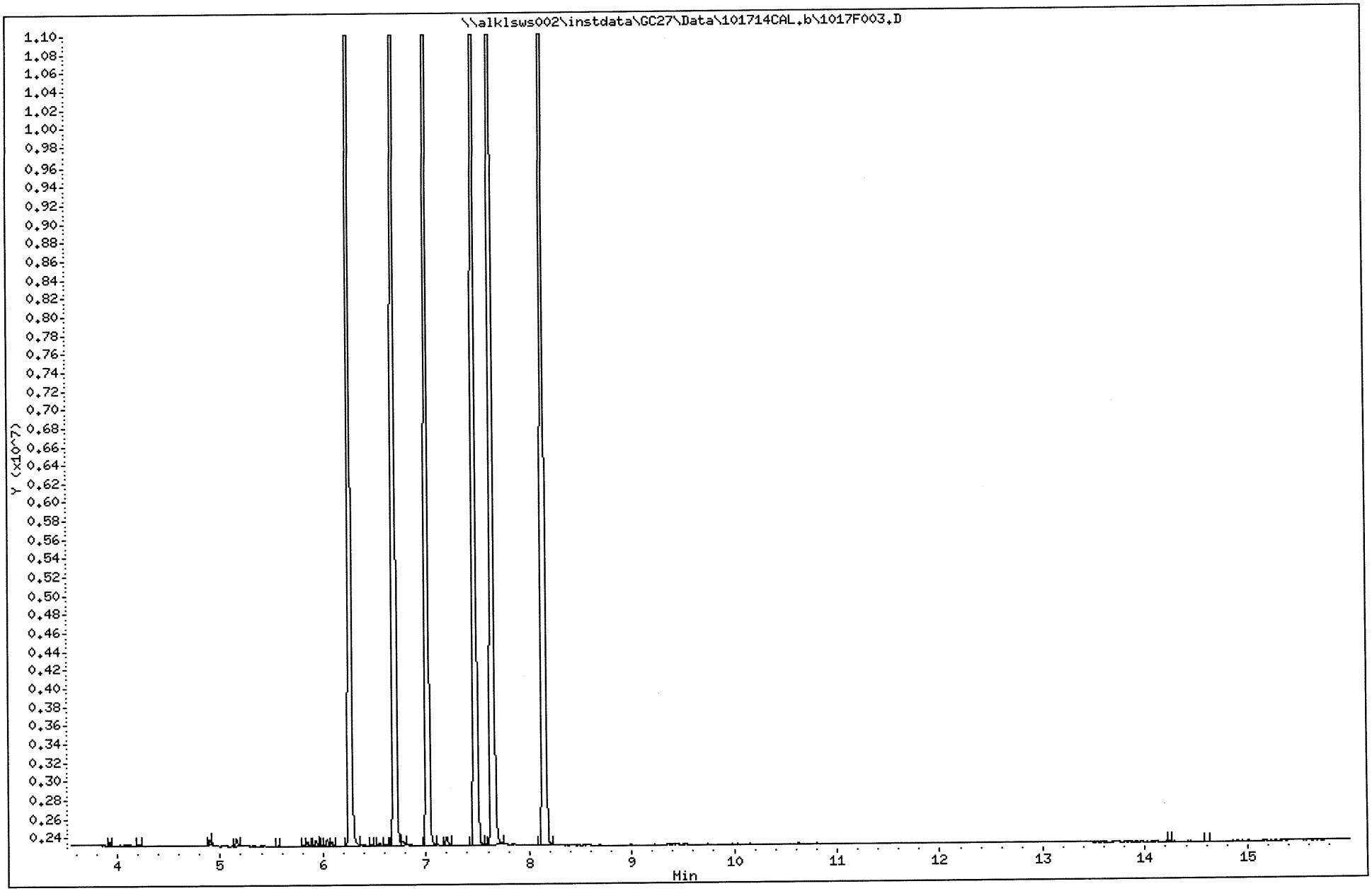
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



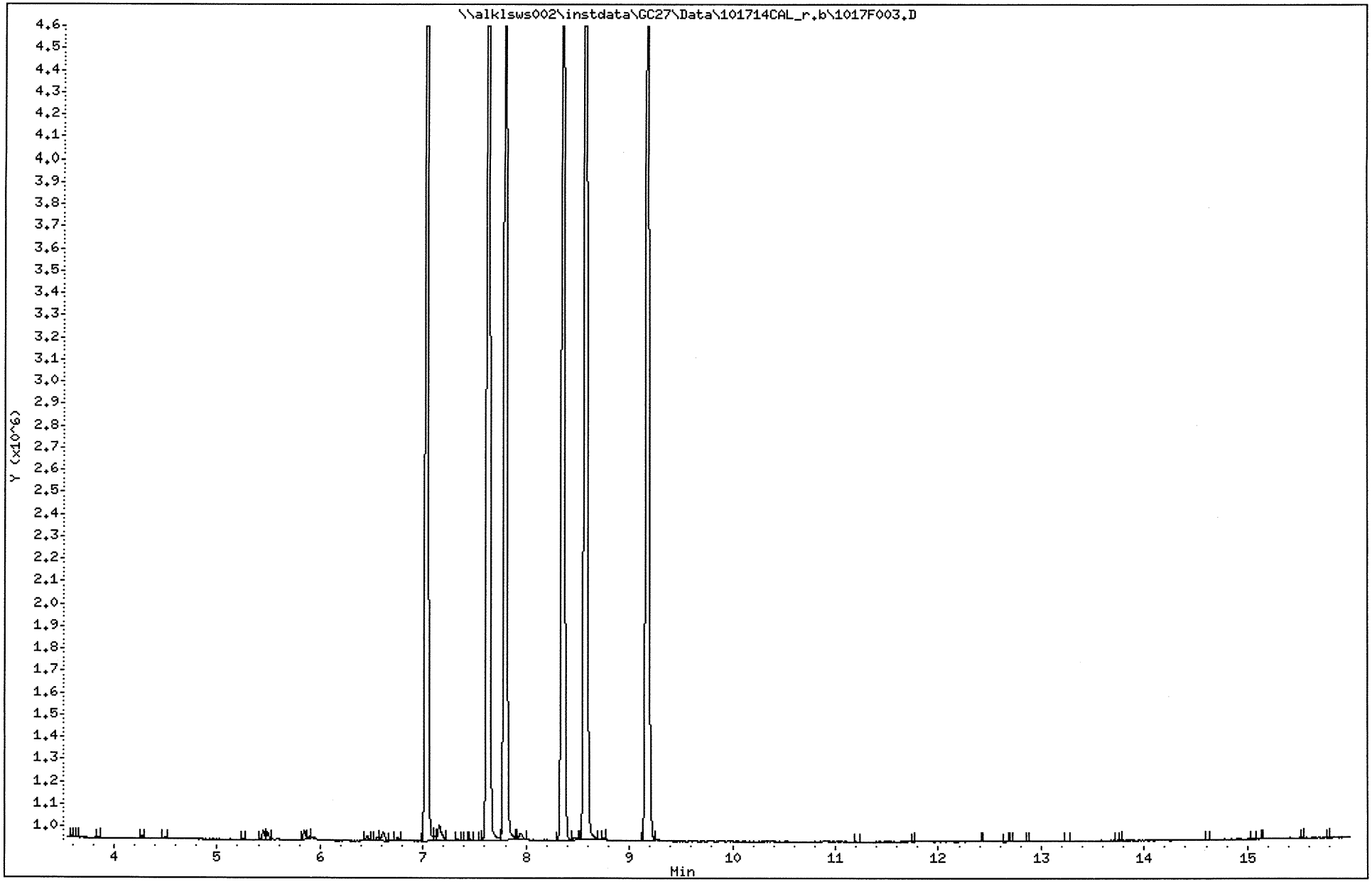
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

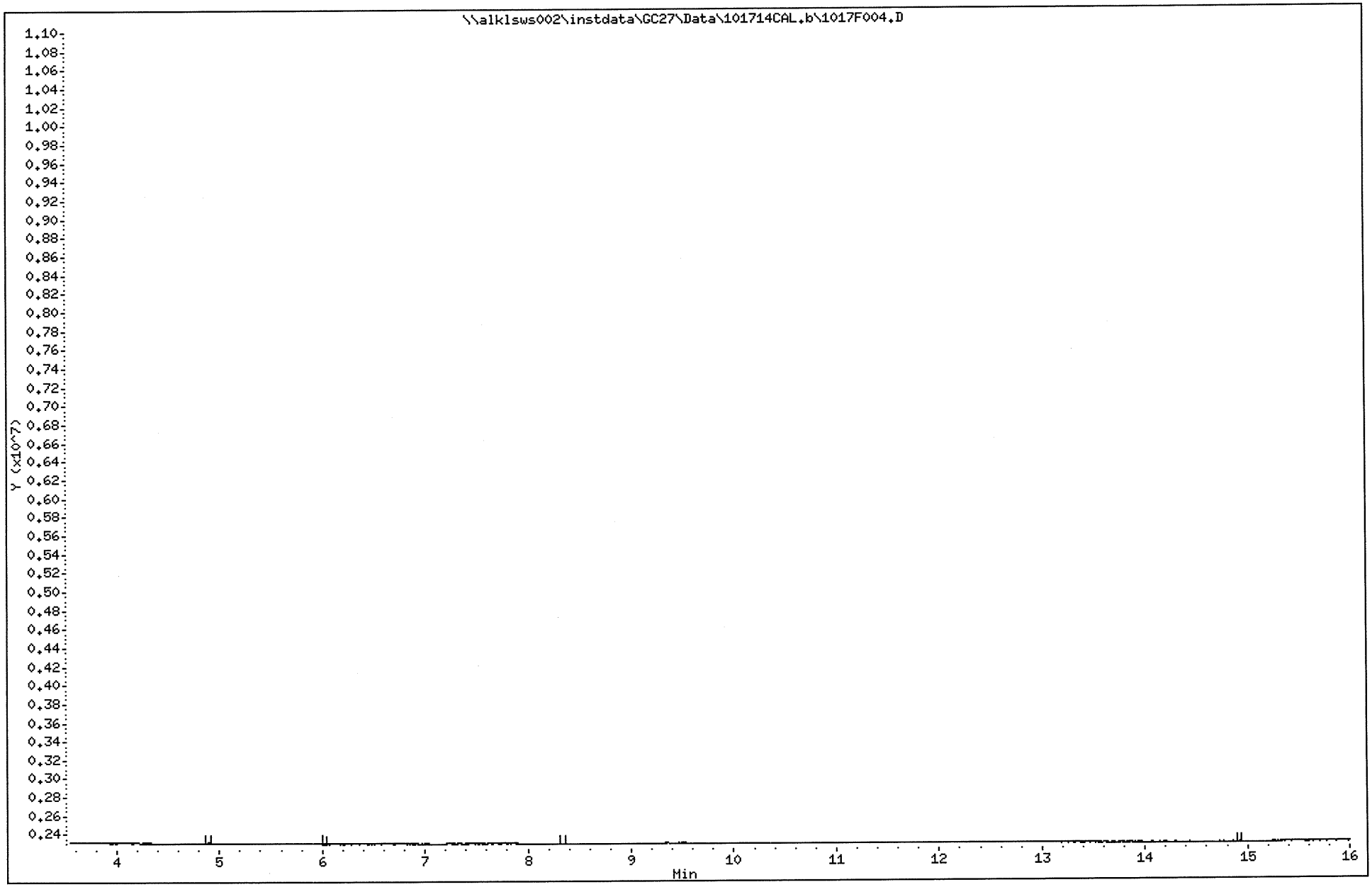
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



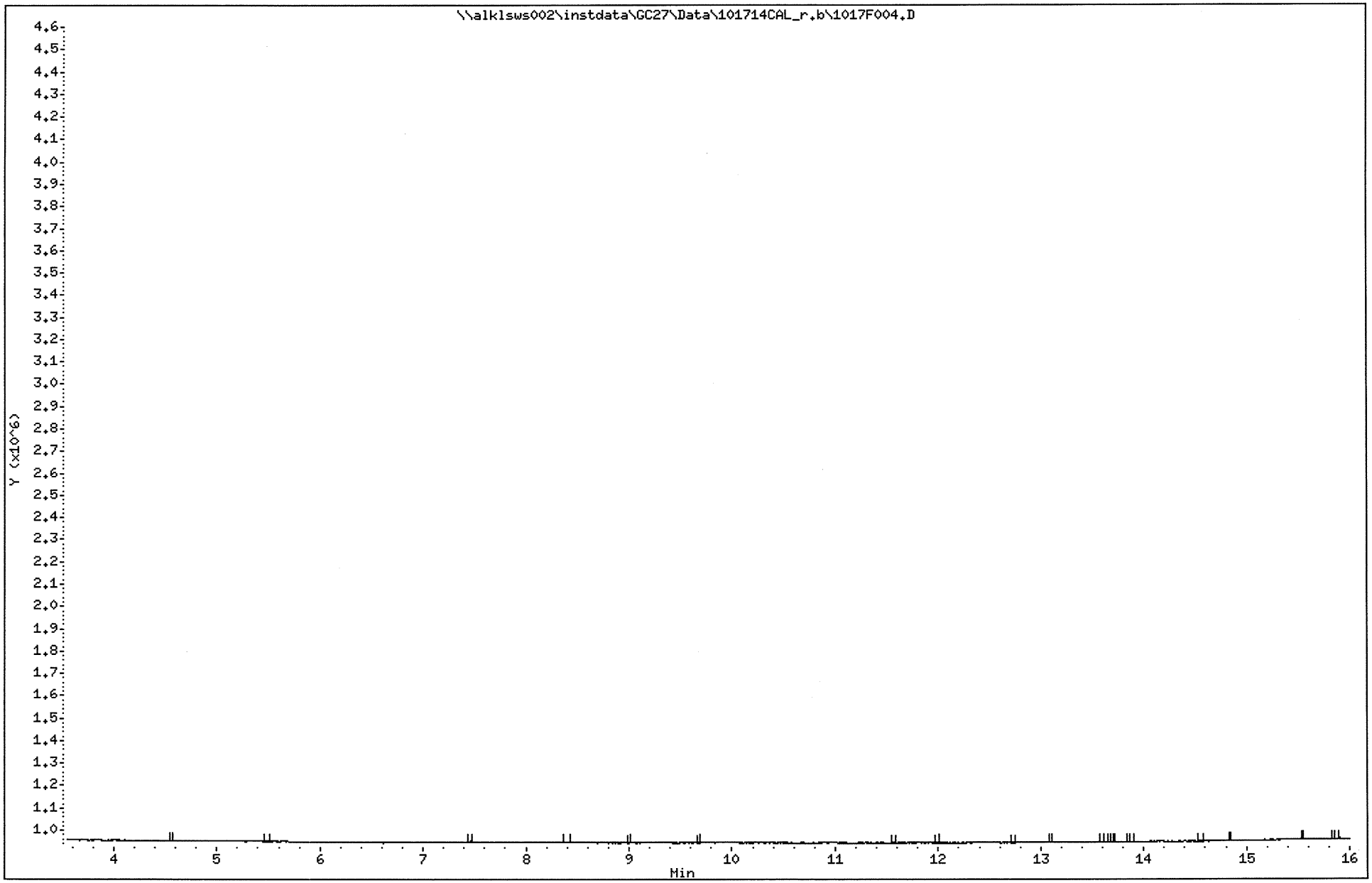
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

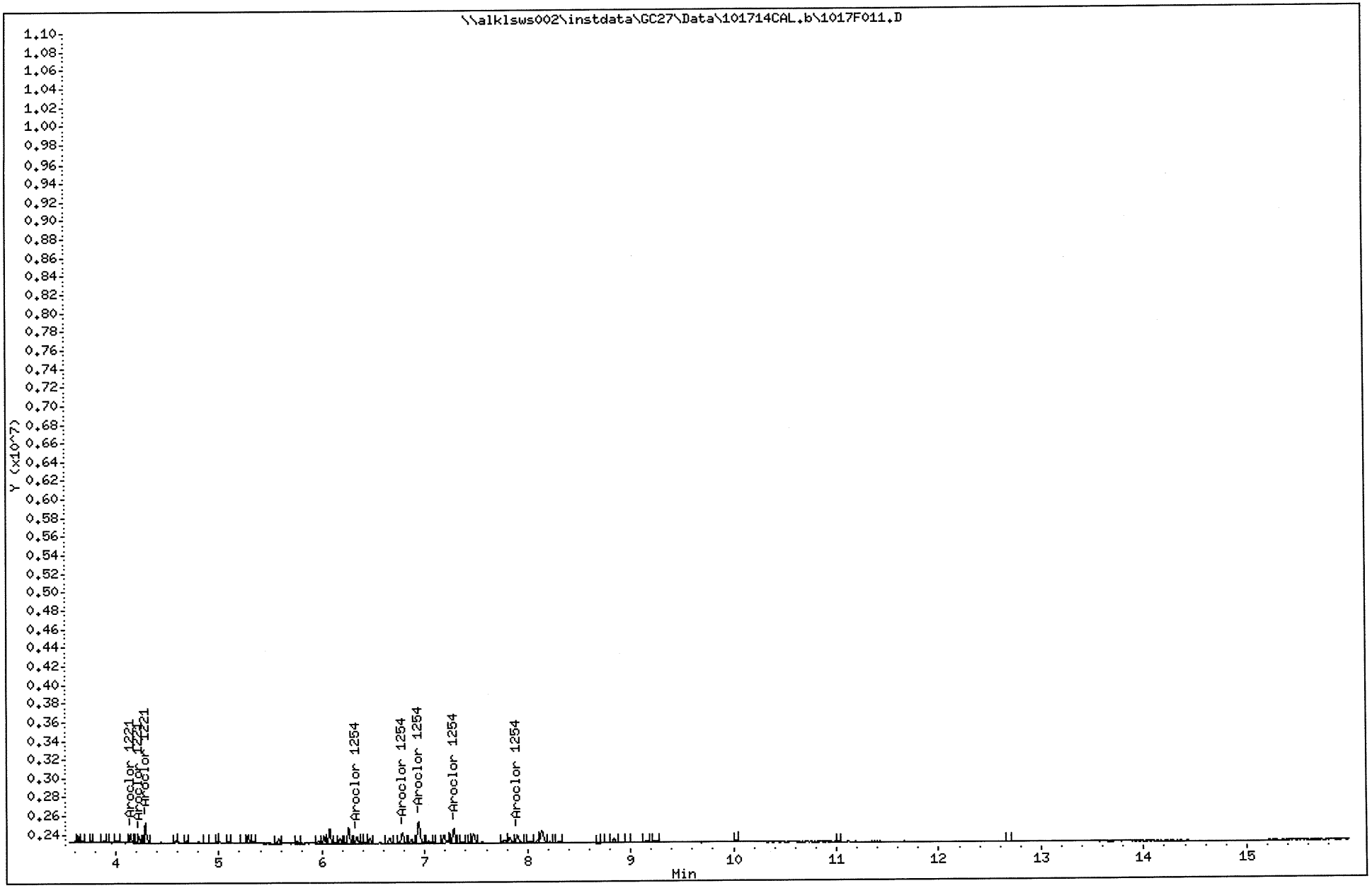
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



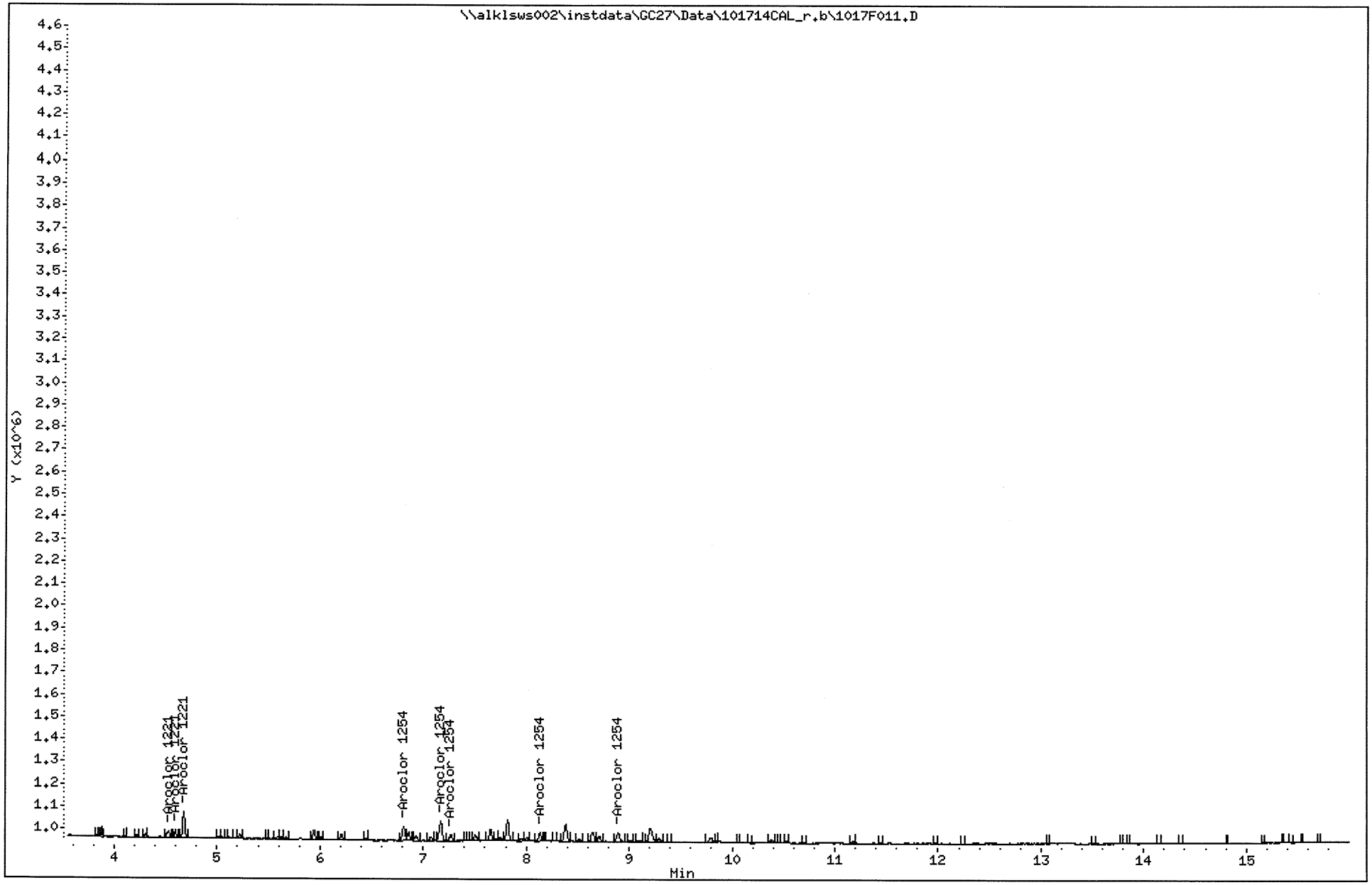
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

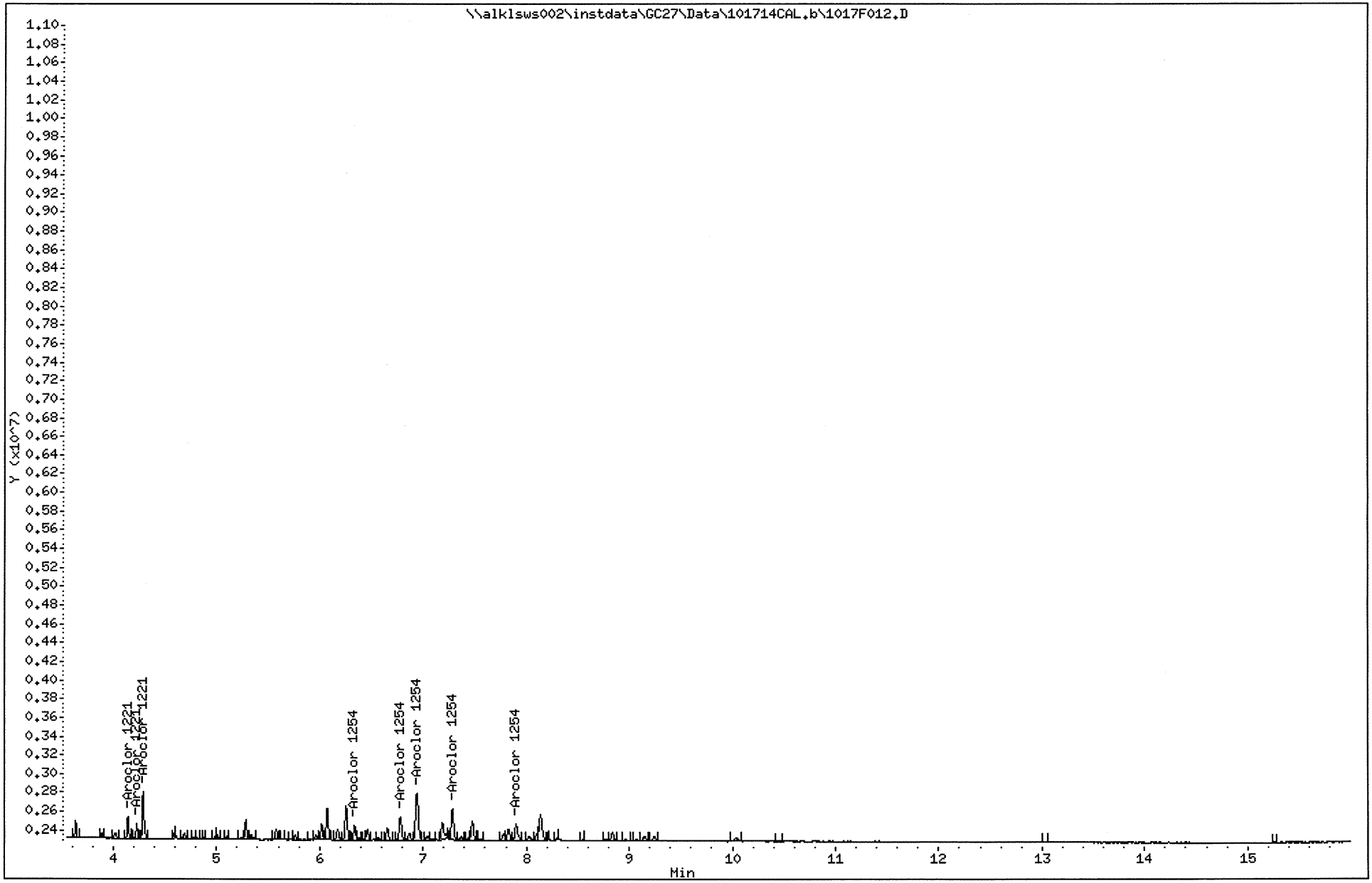
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



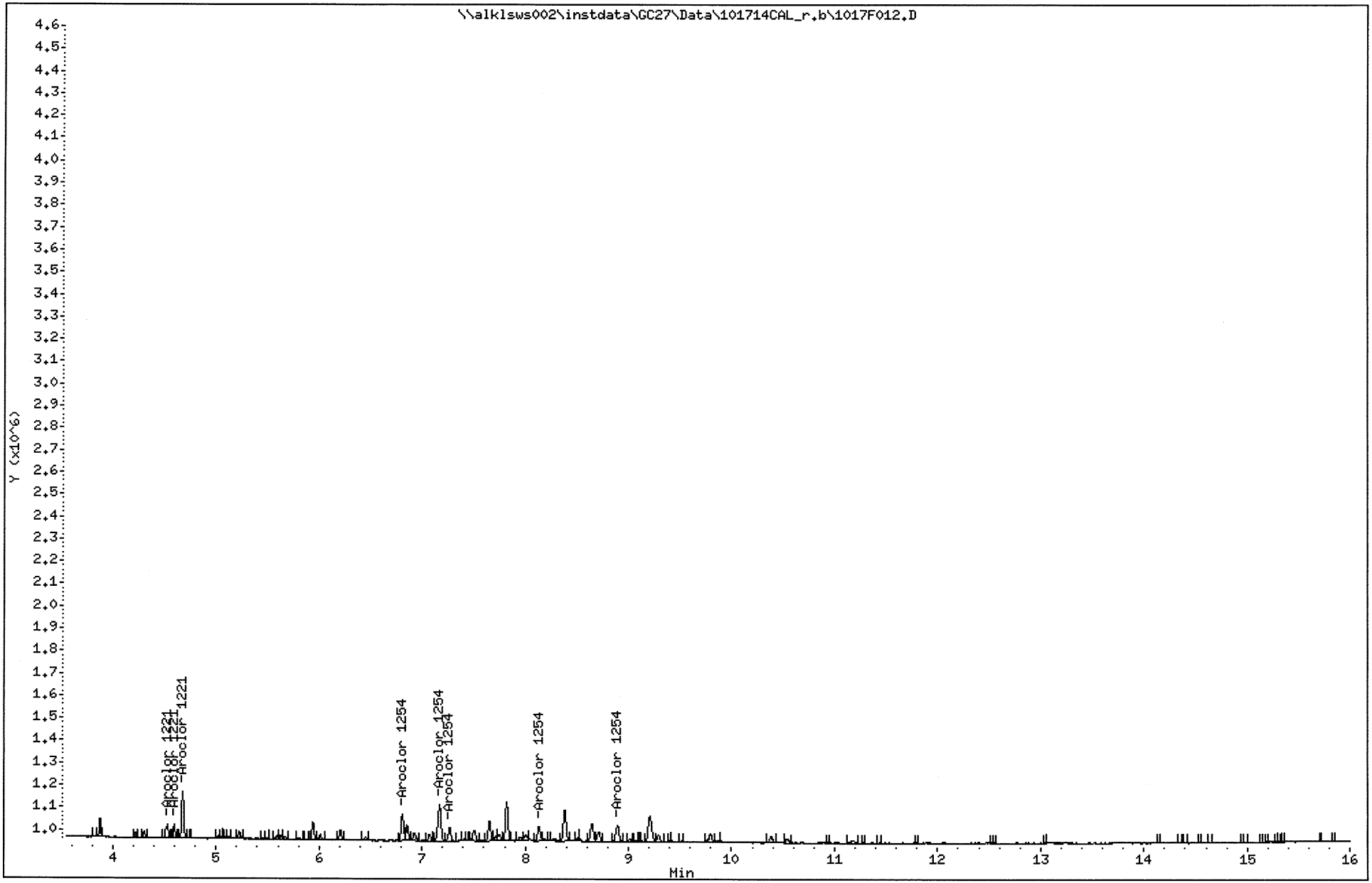
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

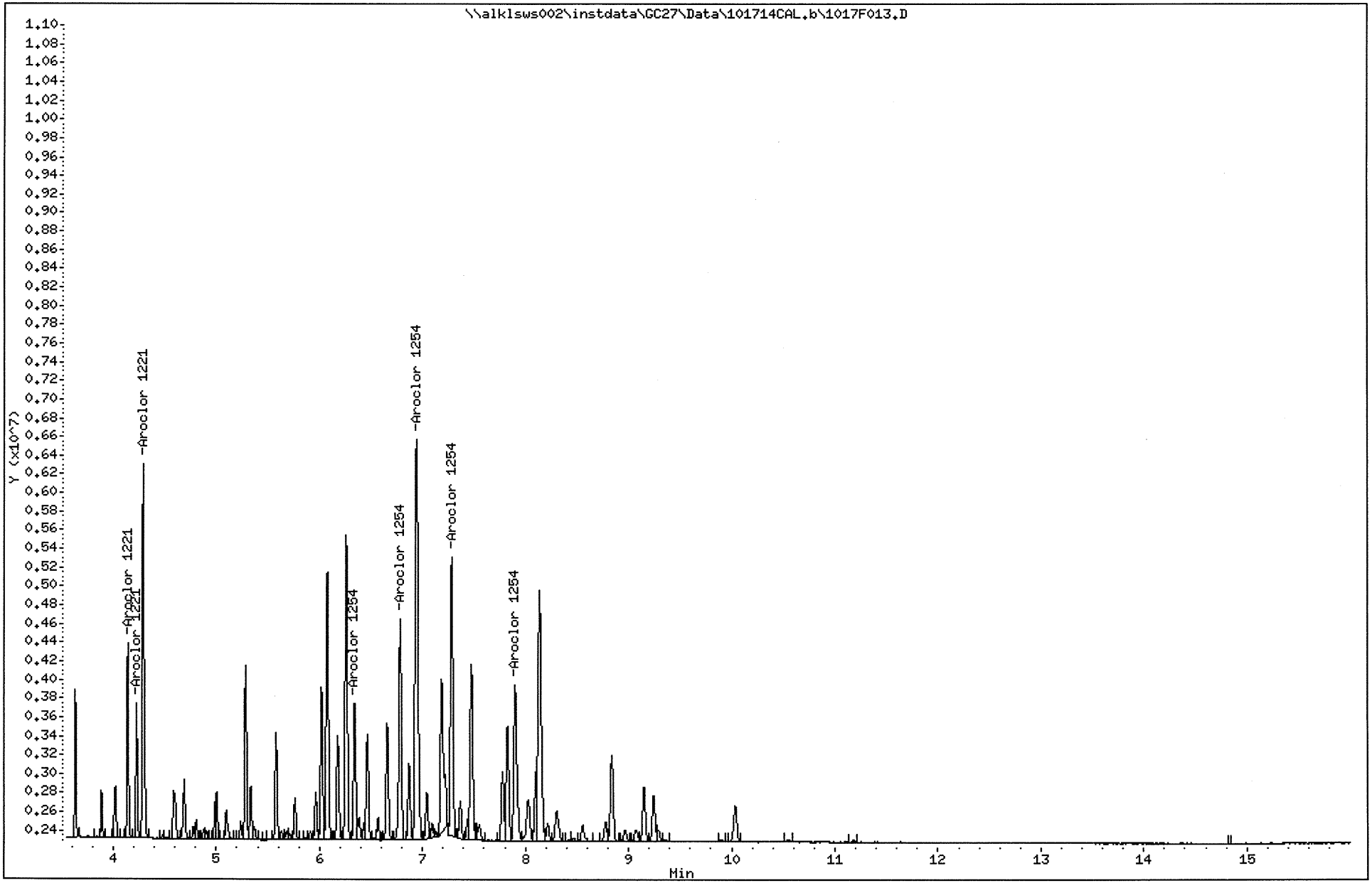
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



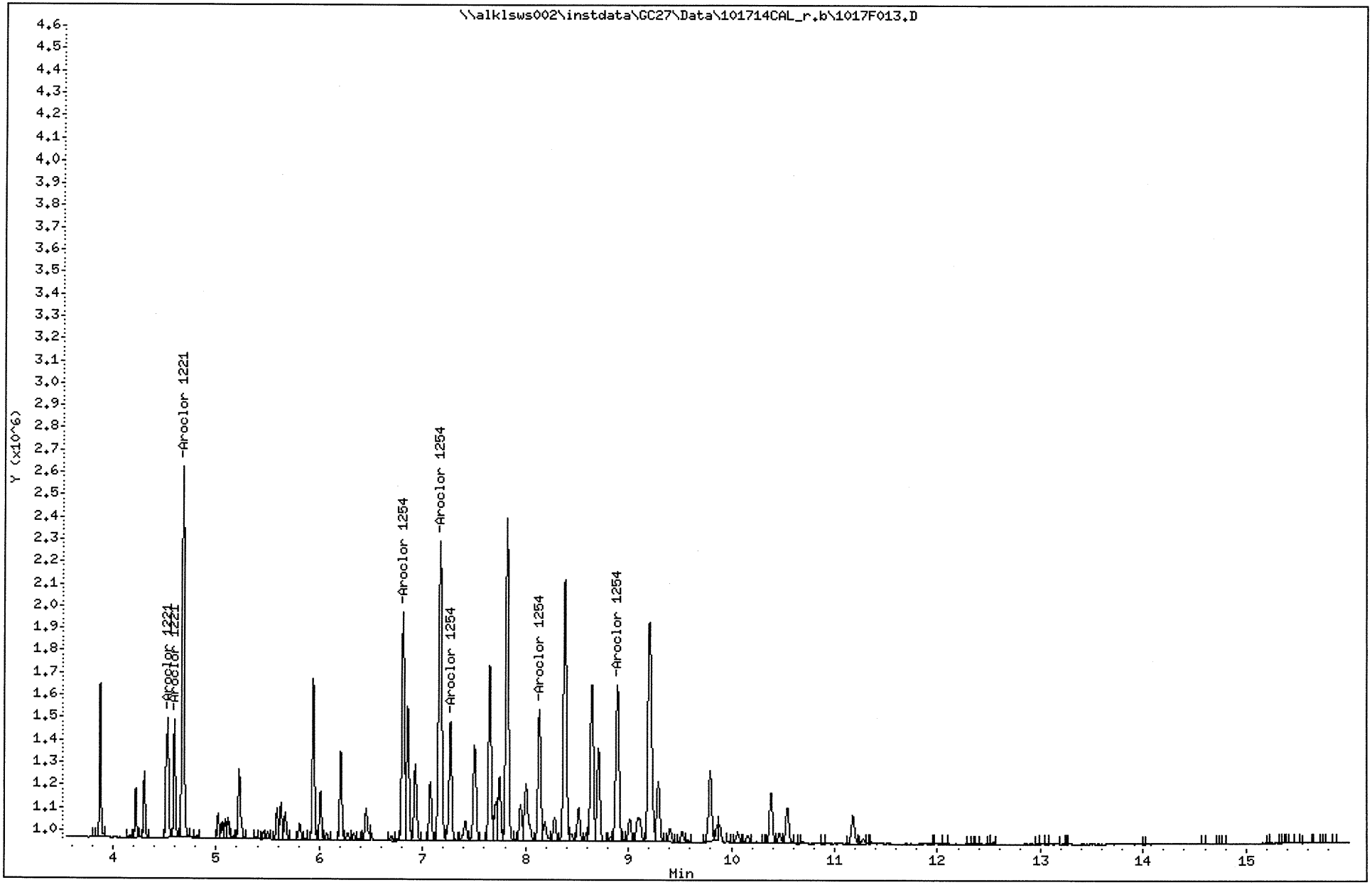
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

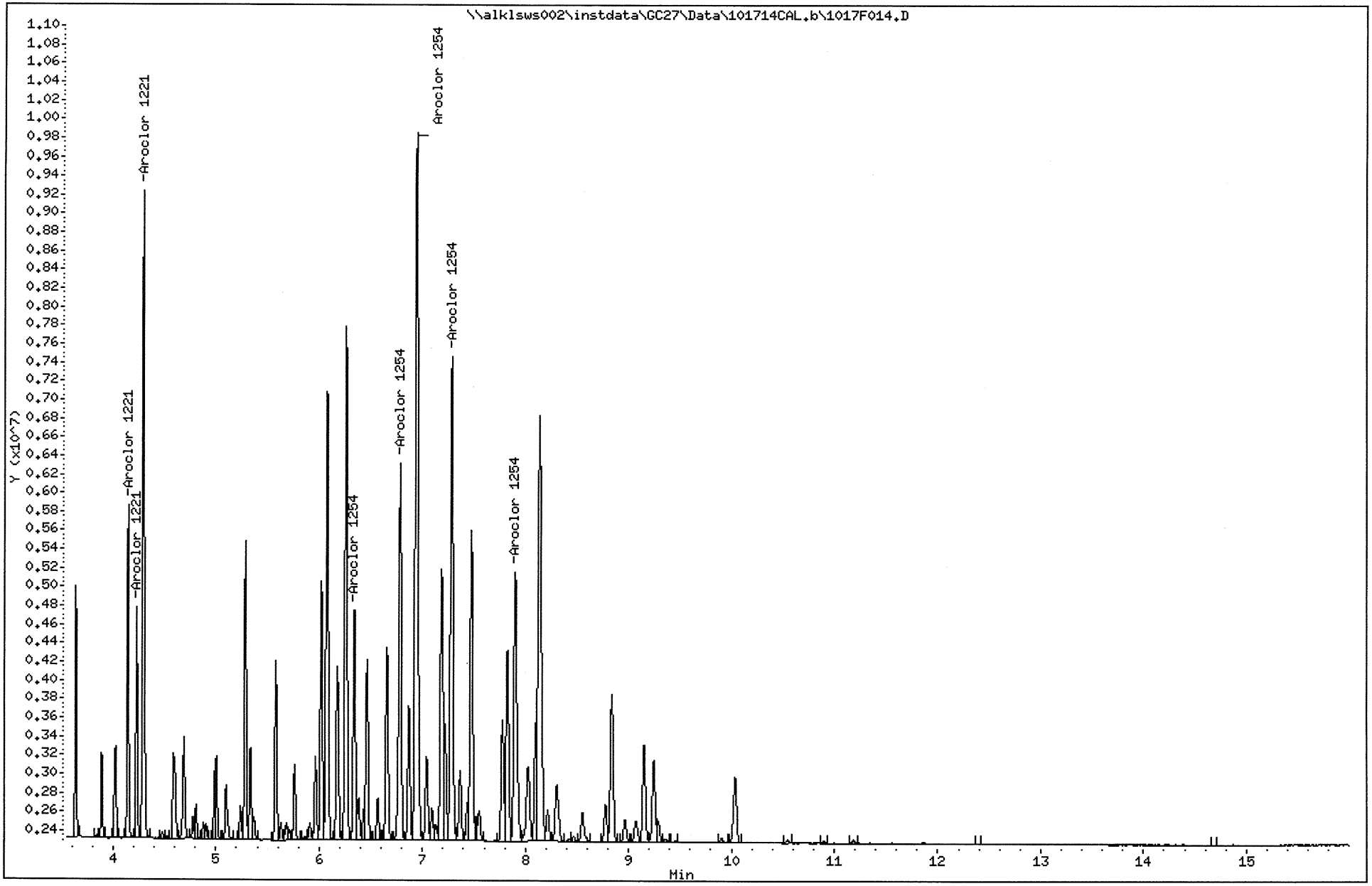
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

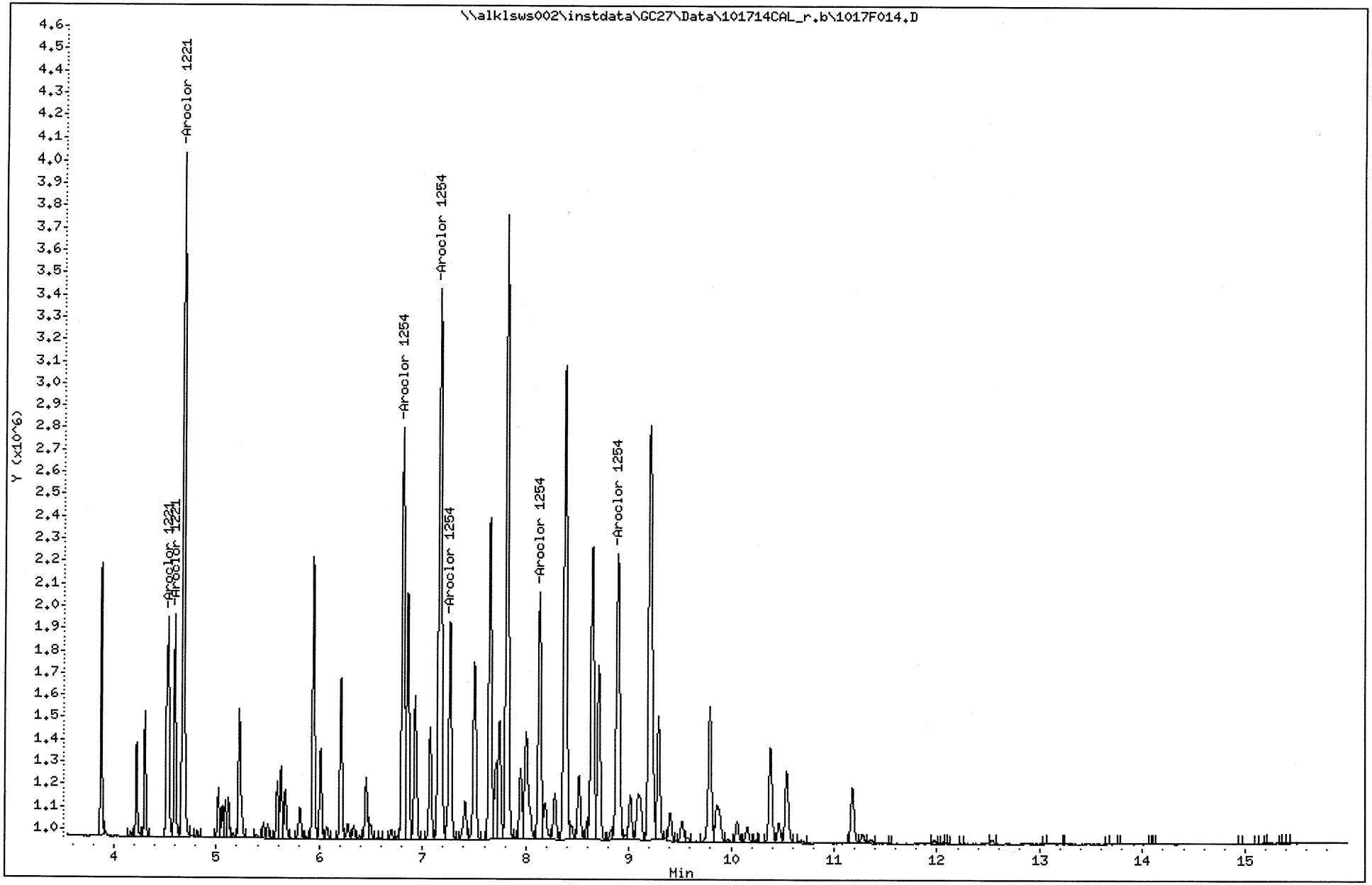


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

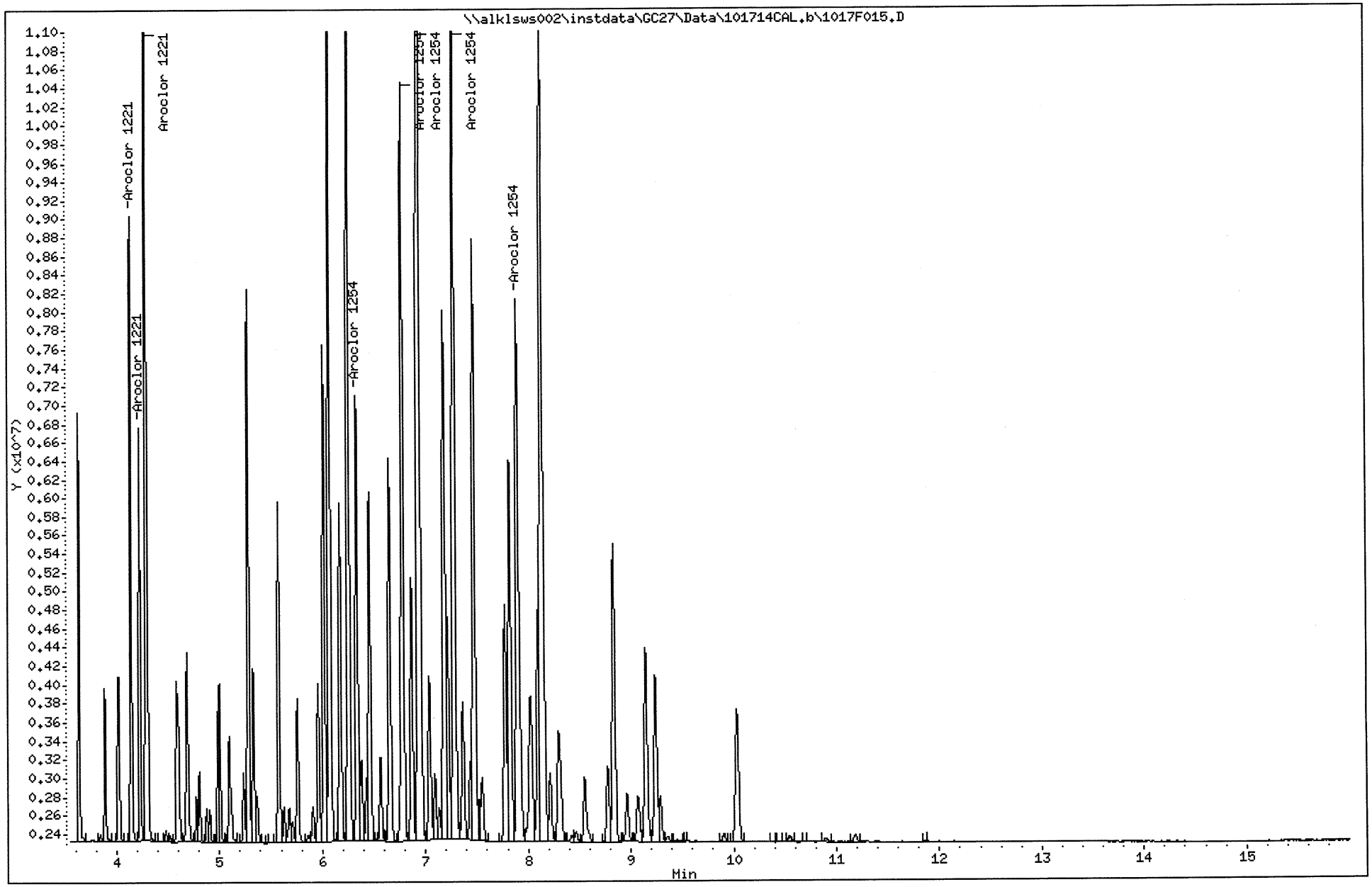
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

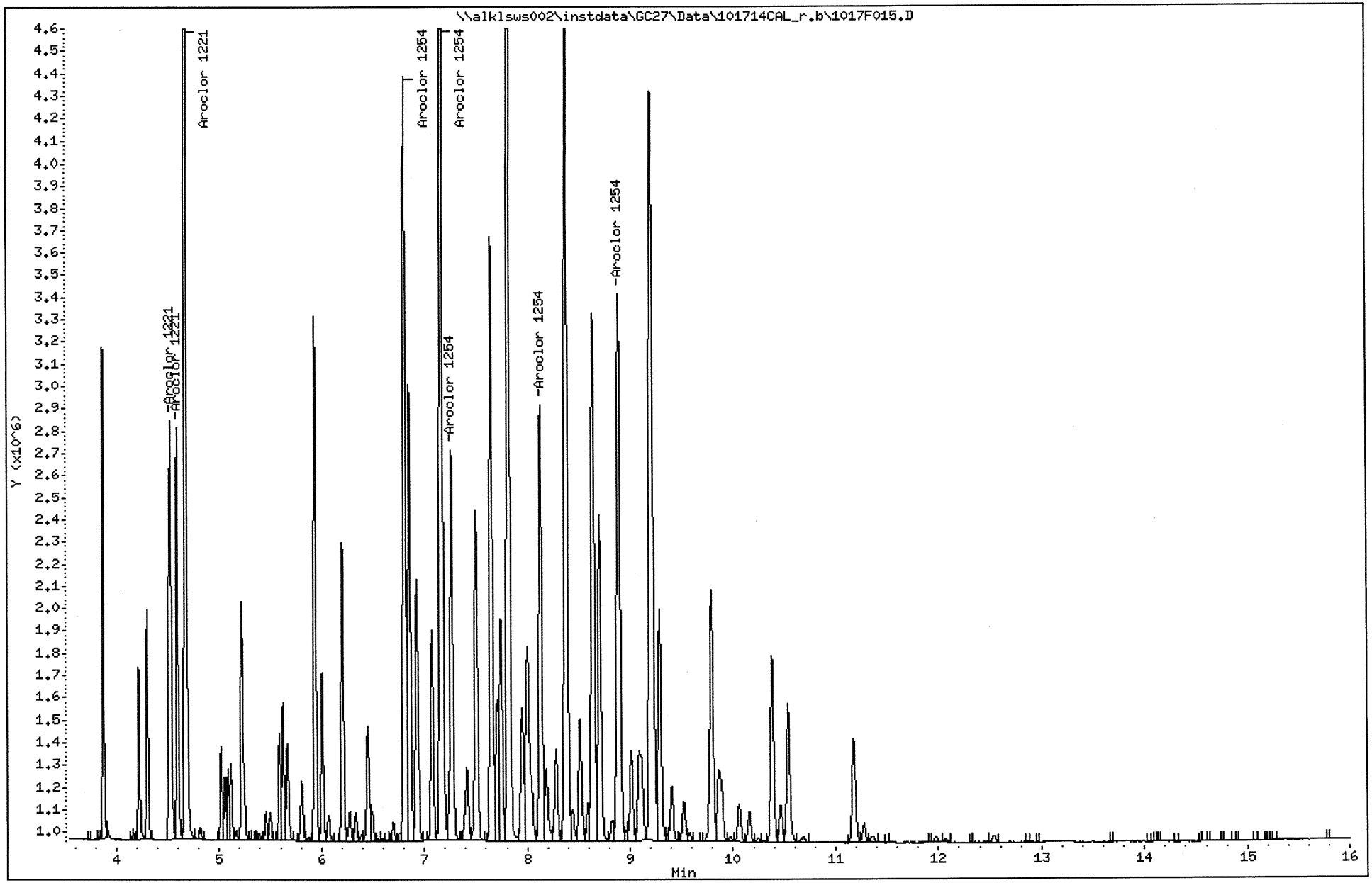


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

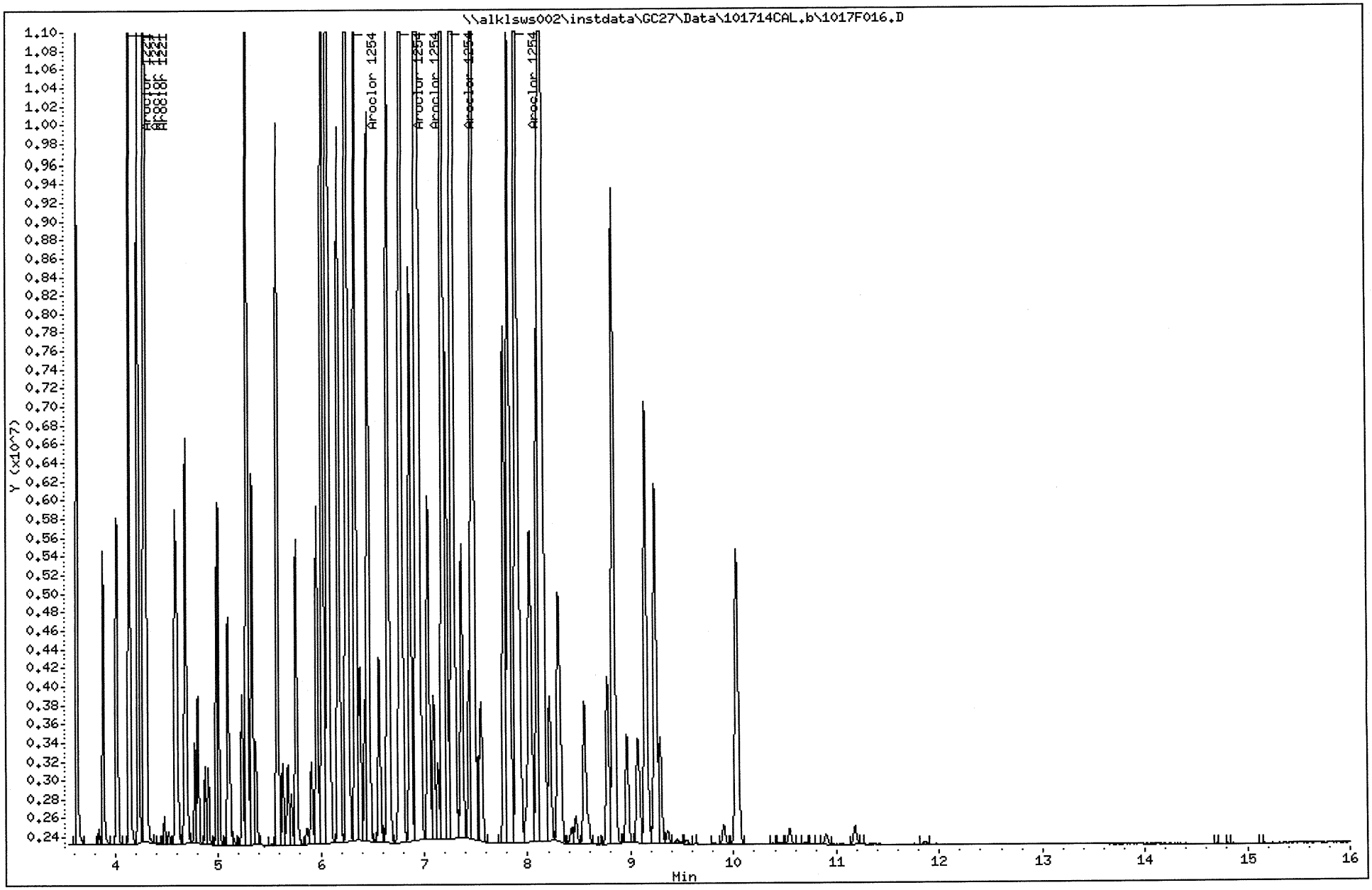
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



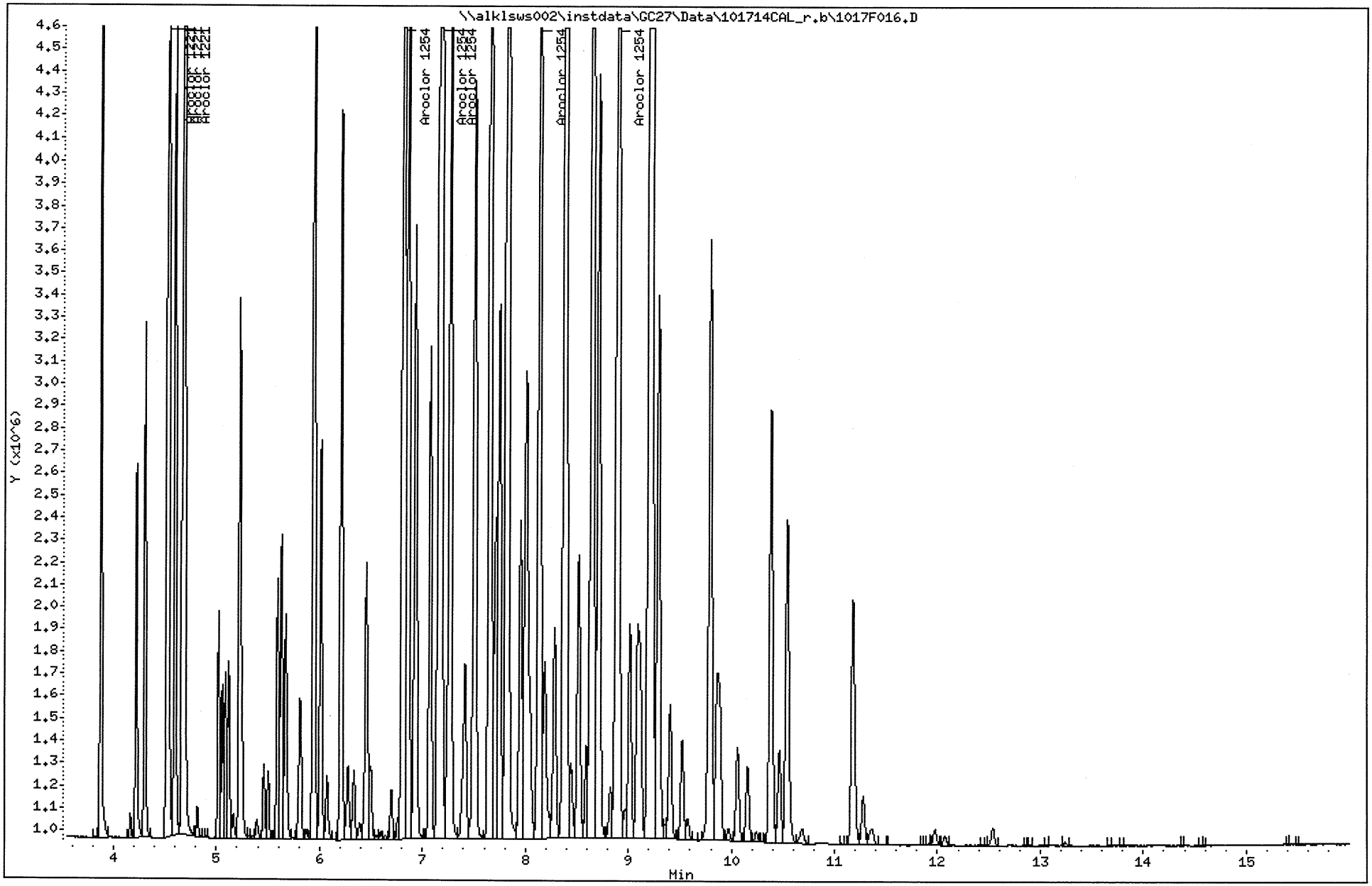
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

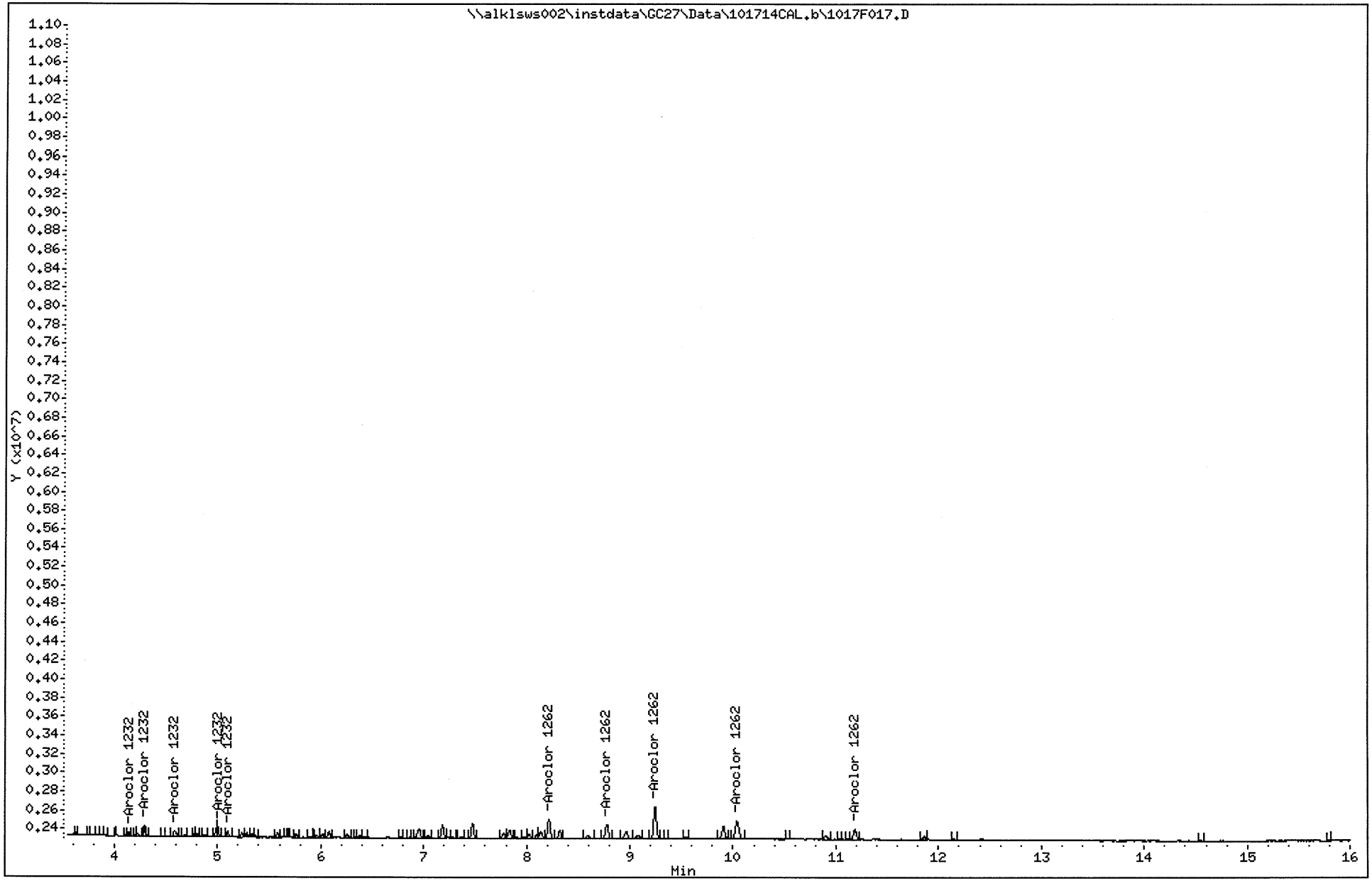
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



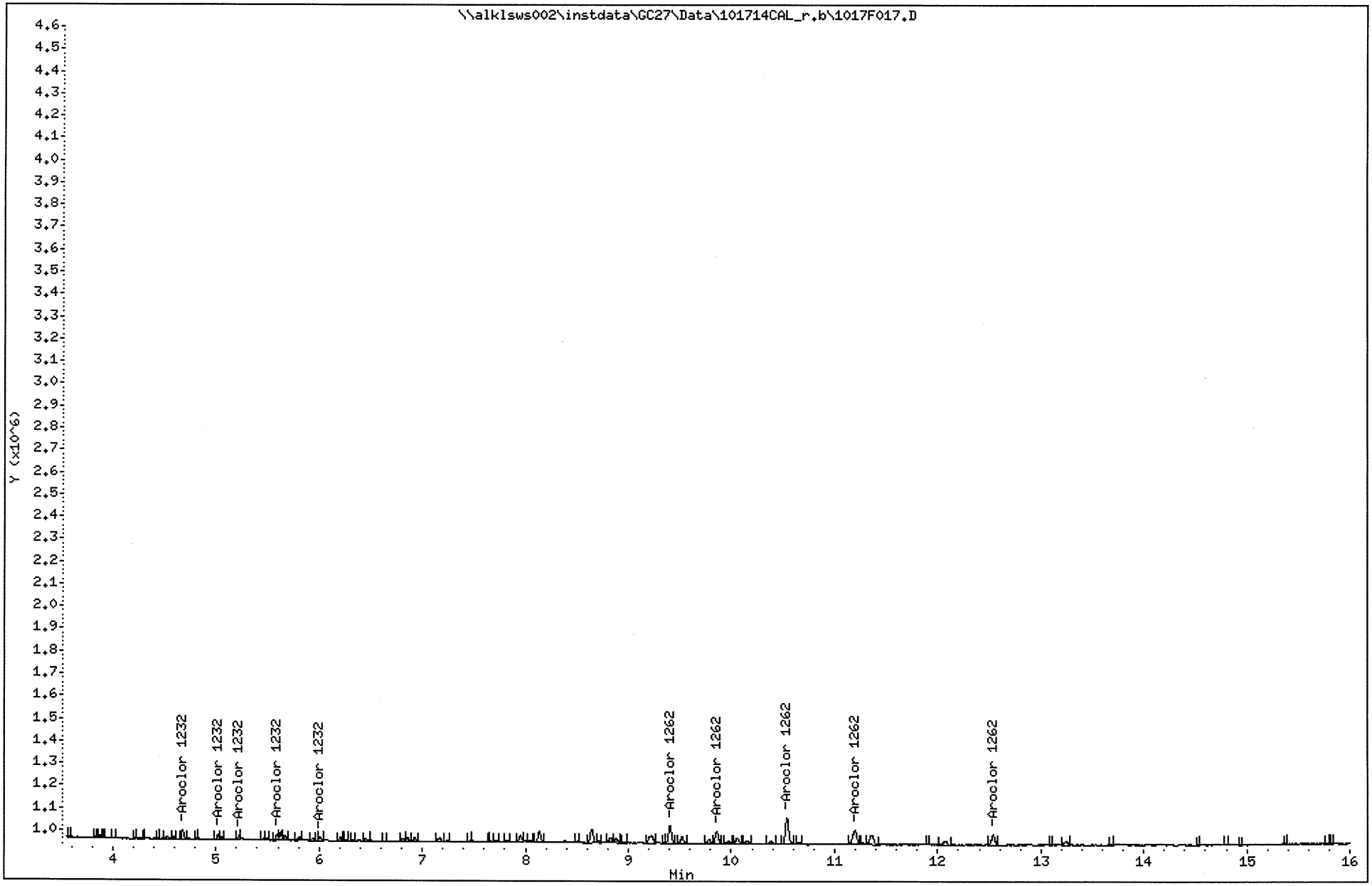
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

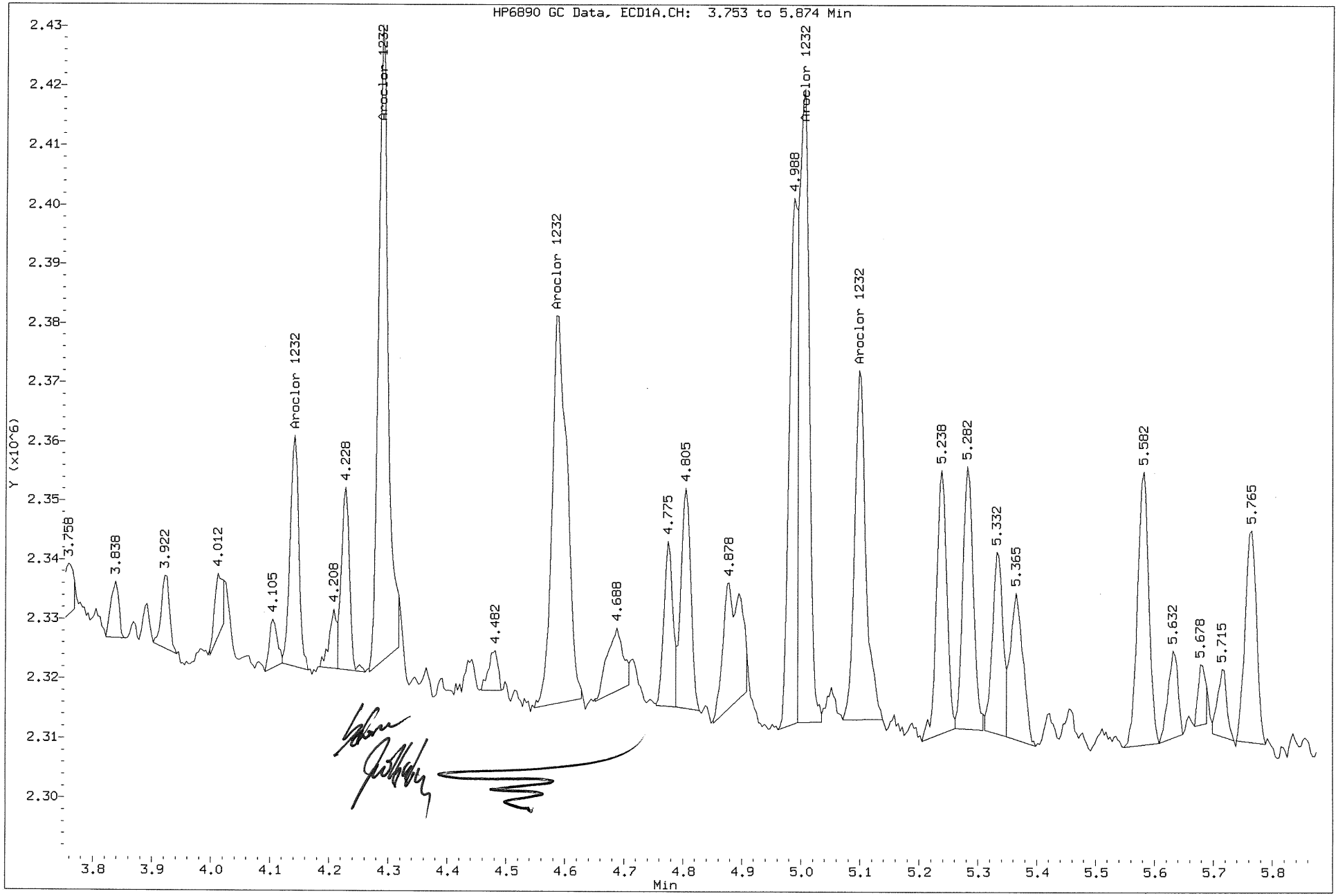
Operator: JMSmith

Column phase: DB-XLB

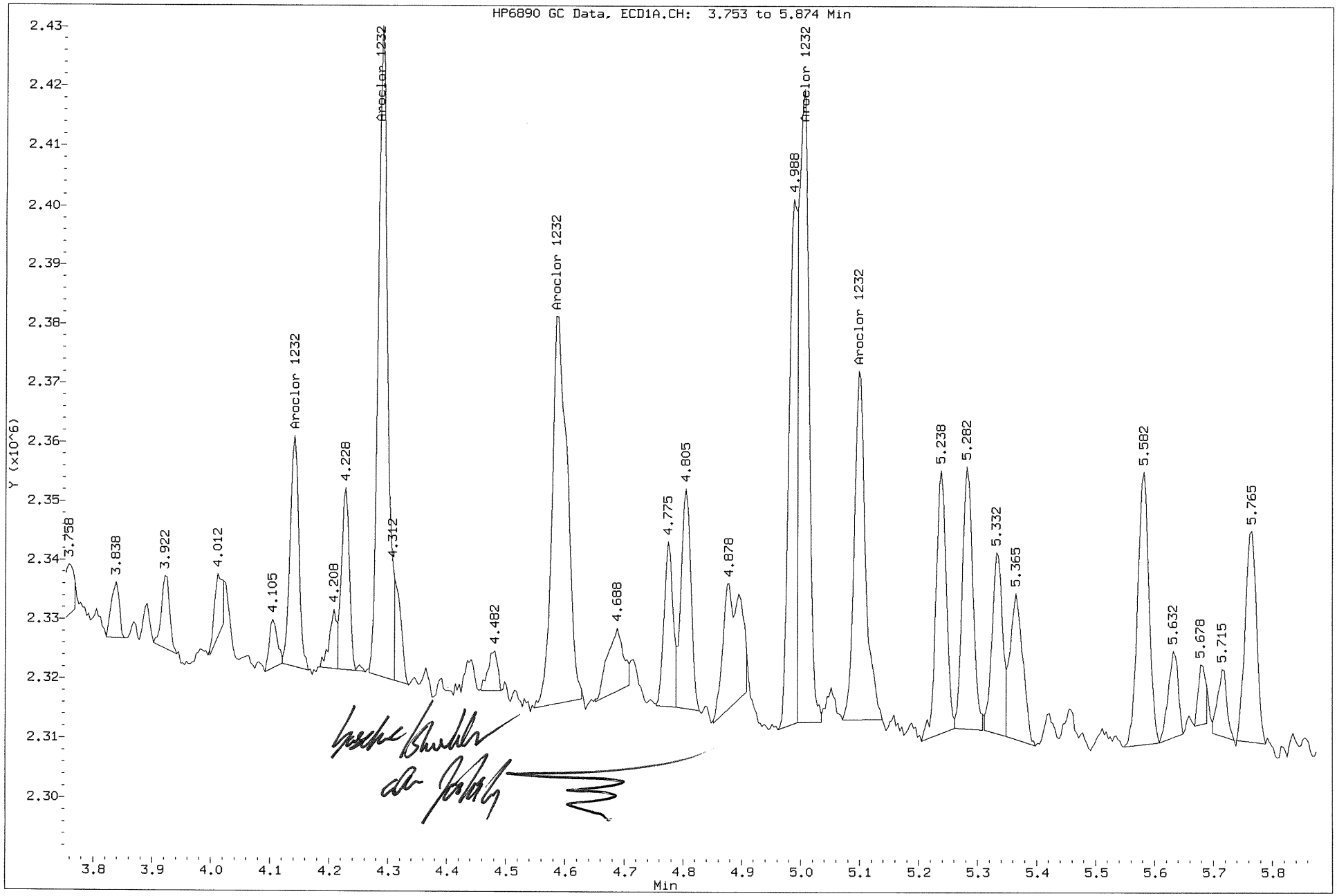
Column diameter: 0.32



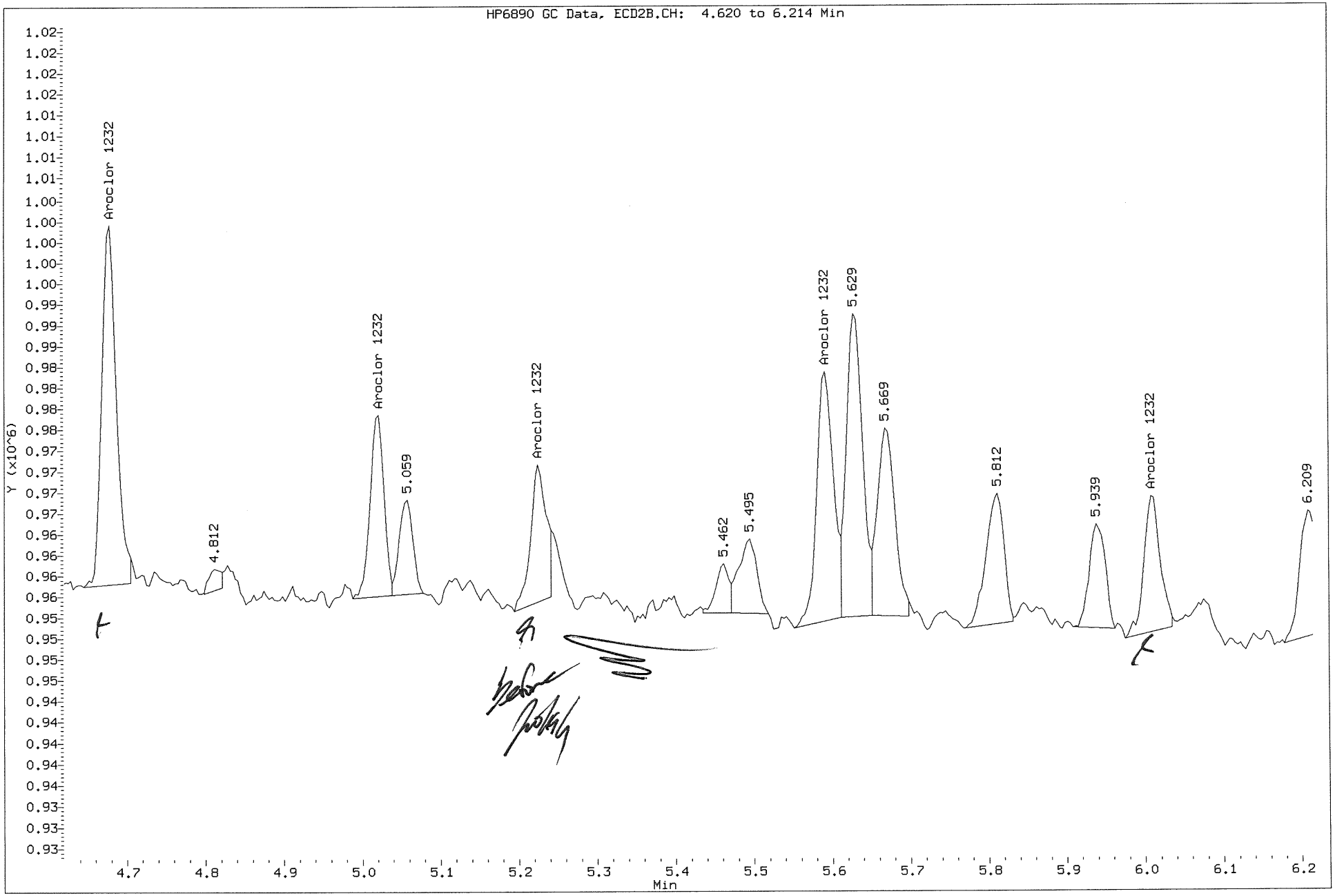
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



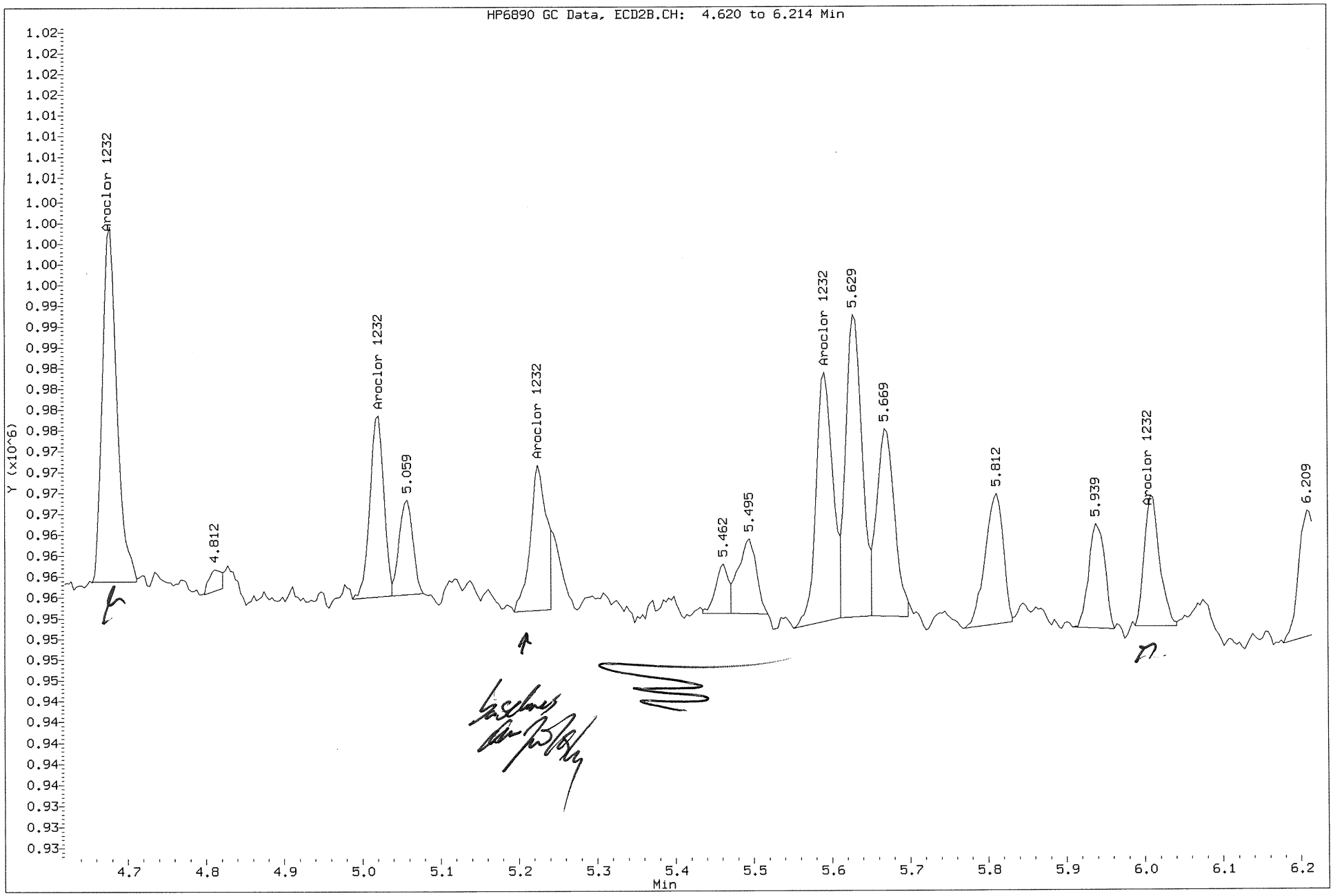
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

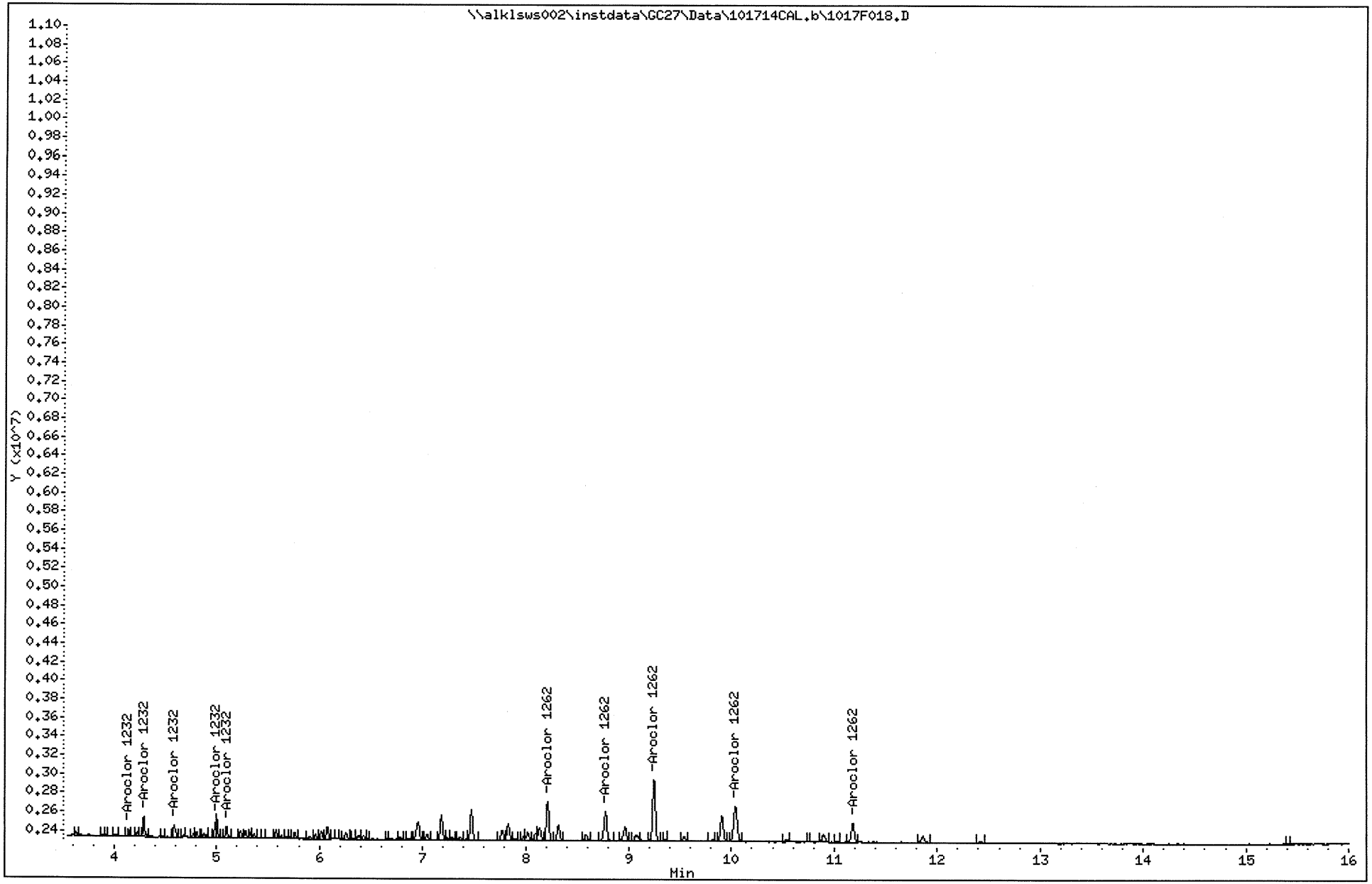
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



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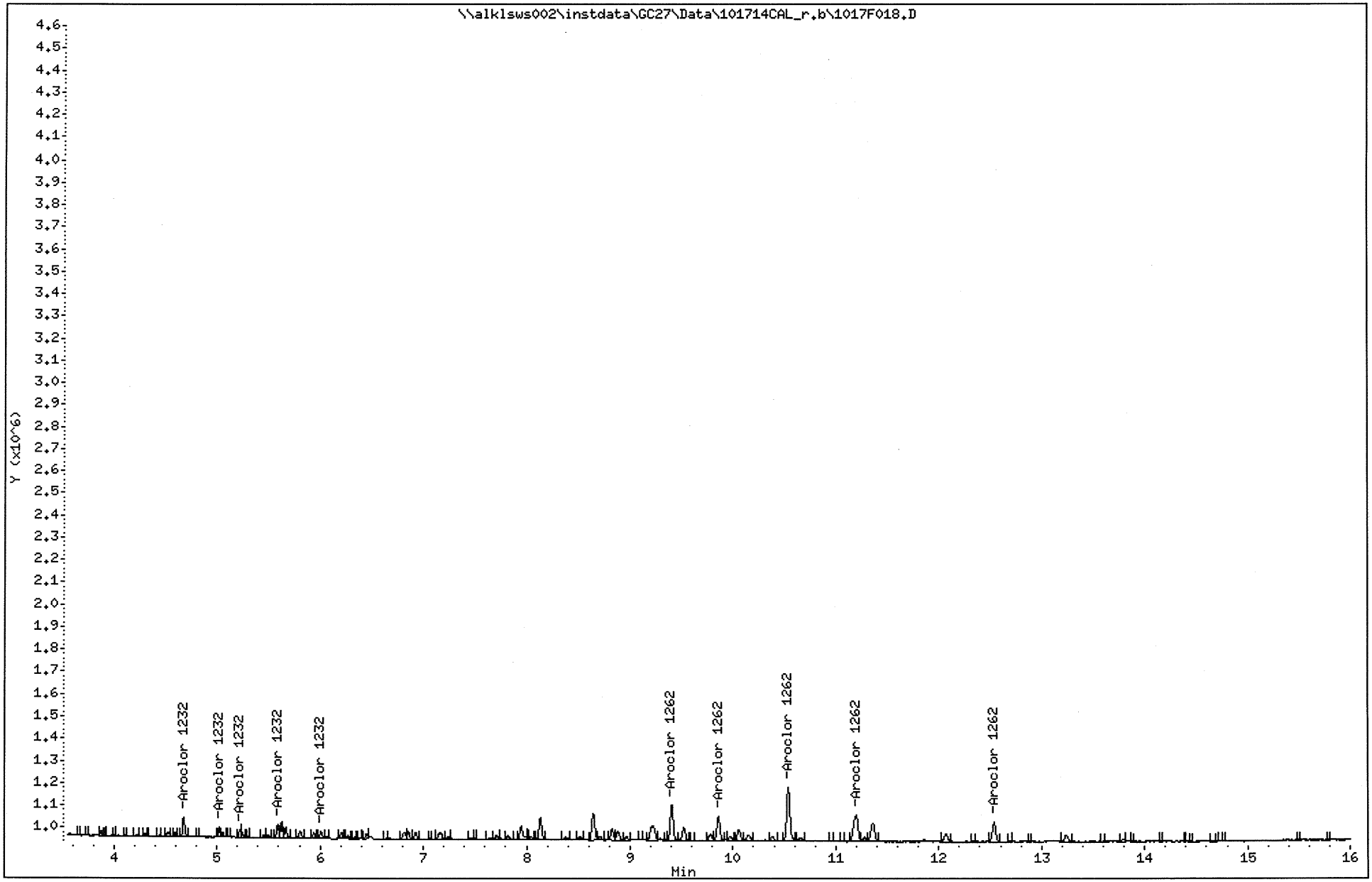
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



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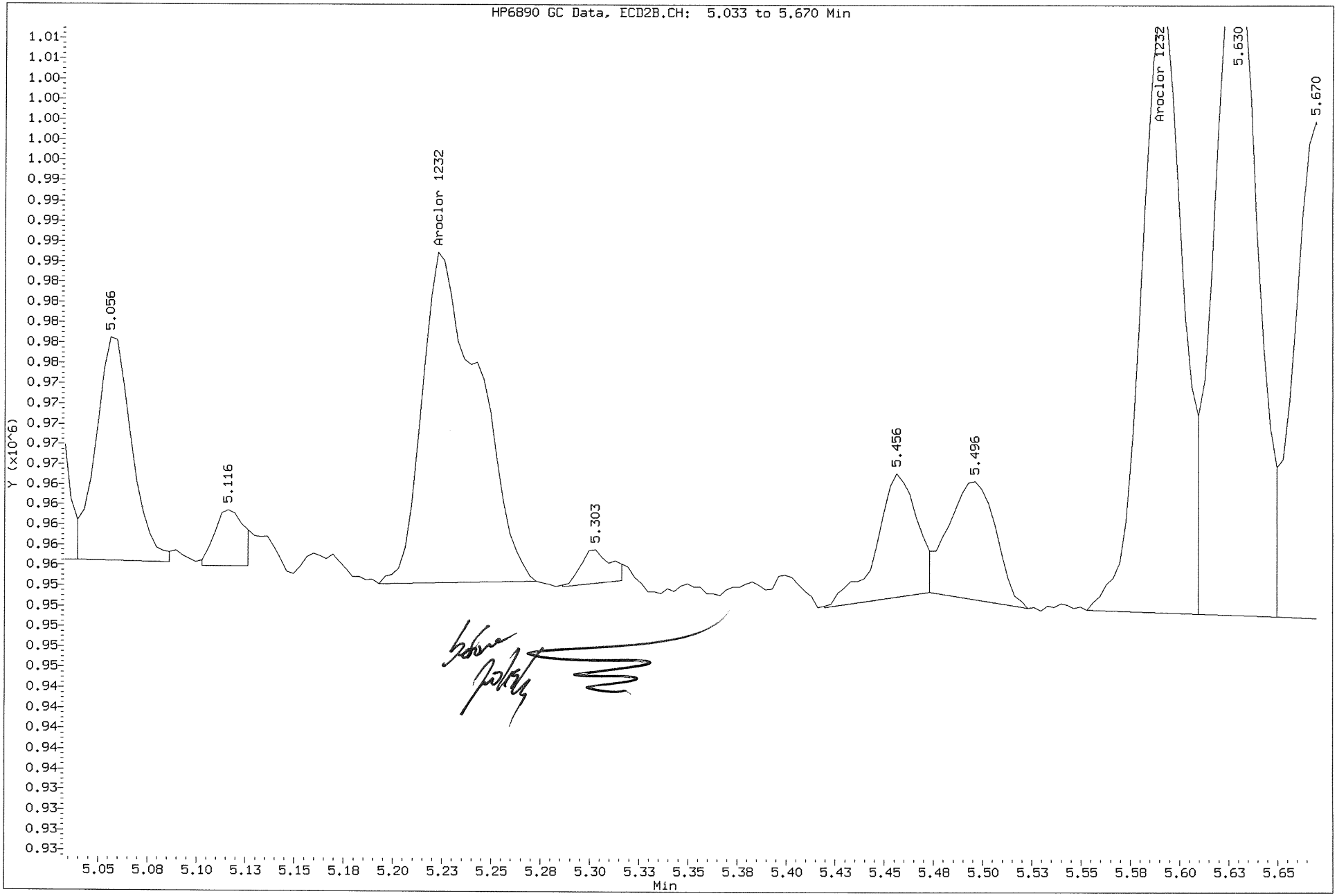
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



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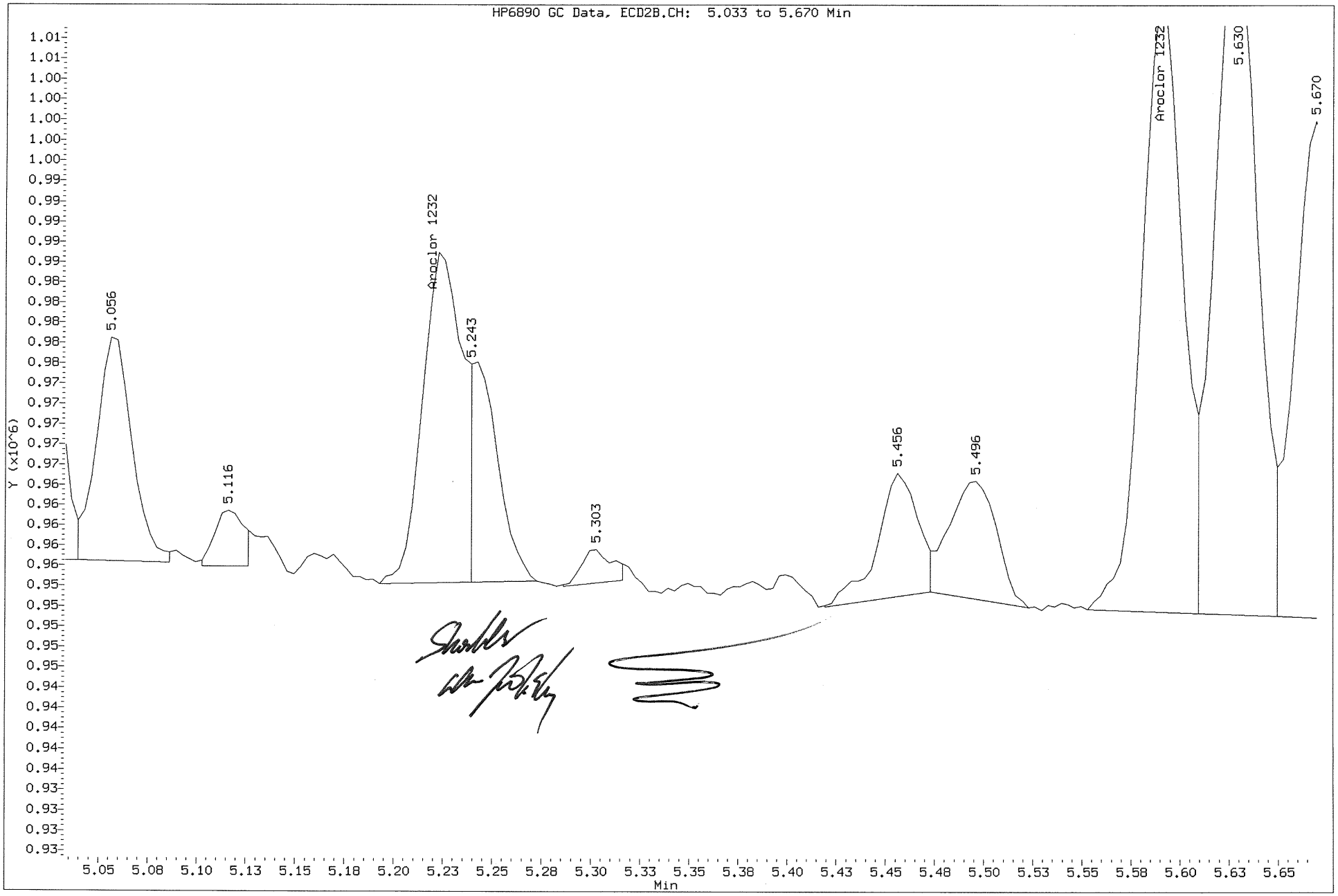
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



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Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

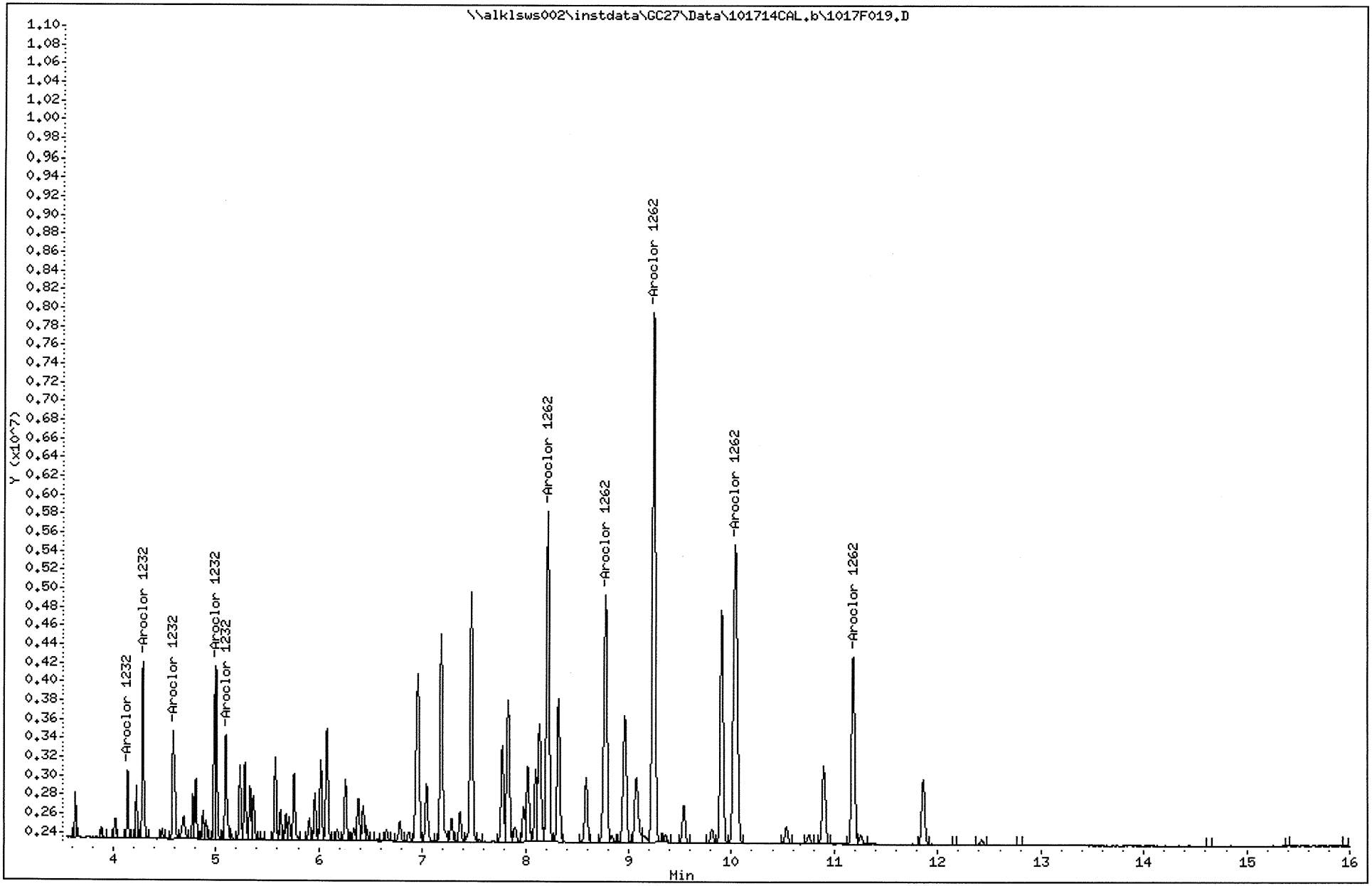
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

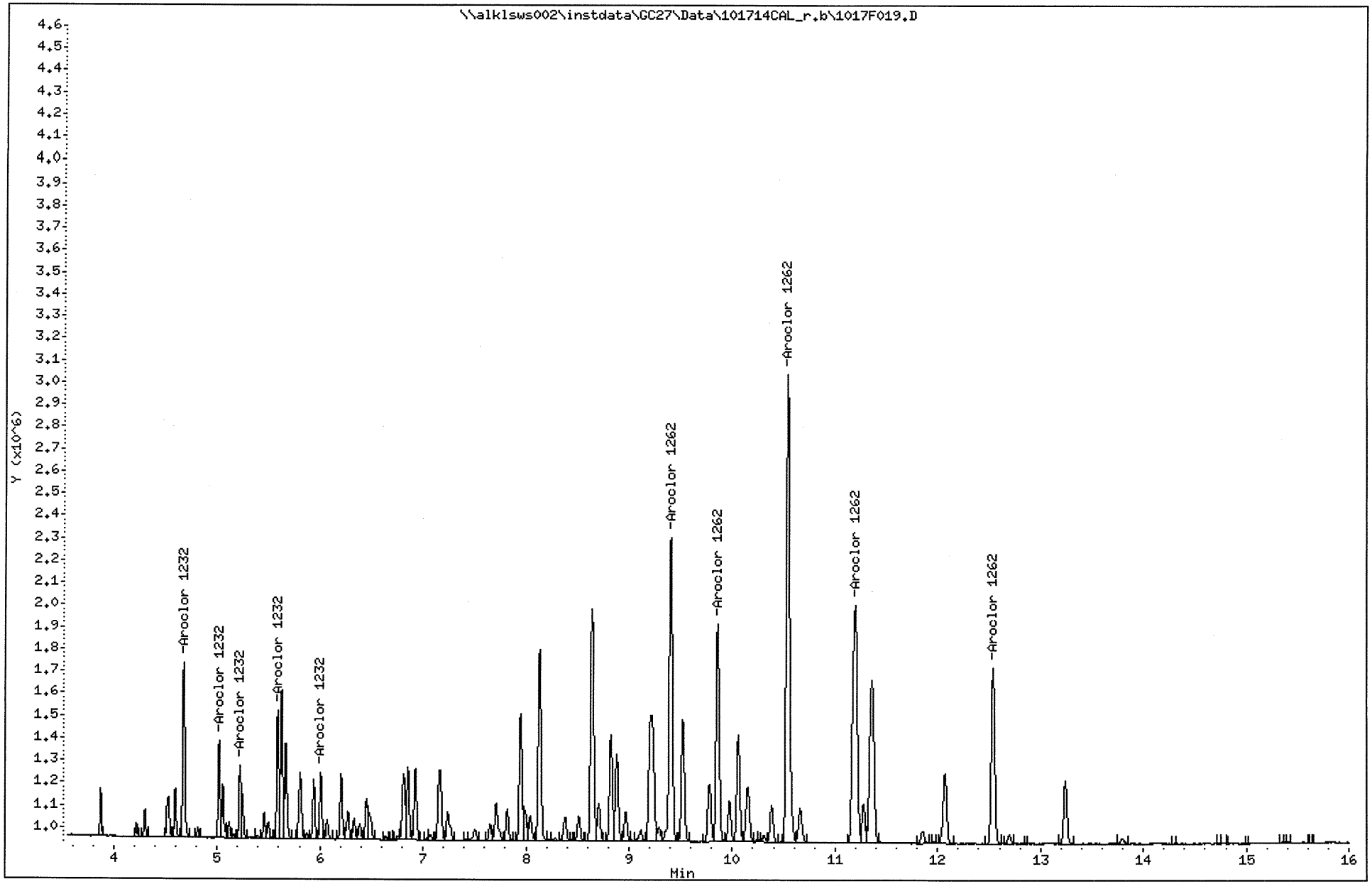


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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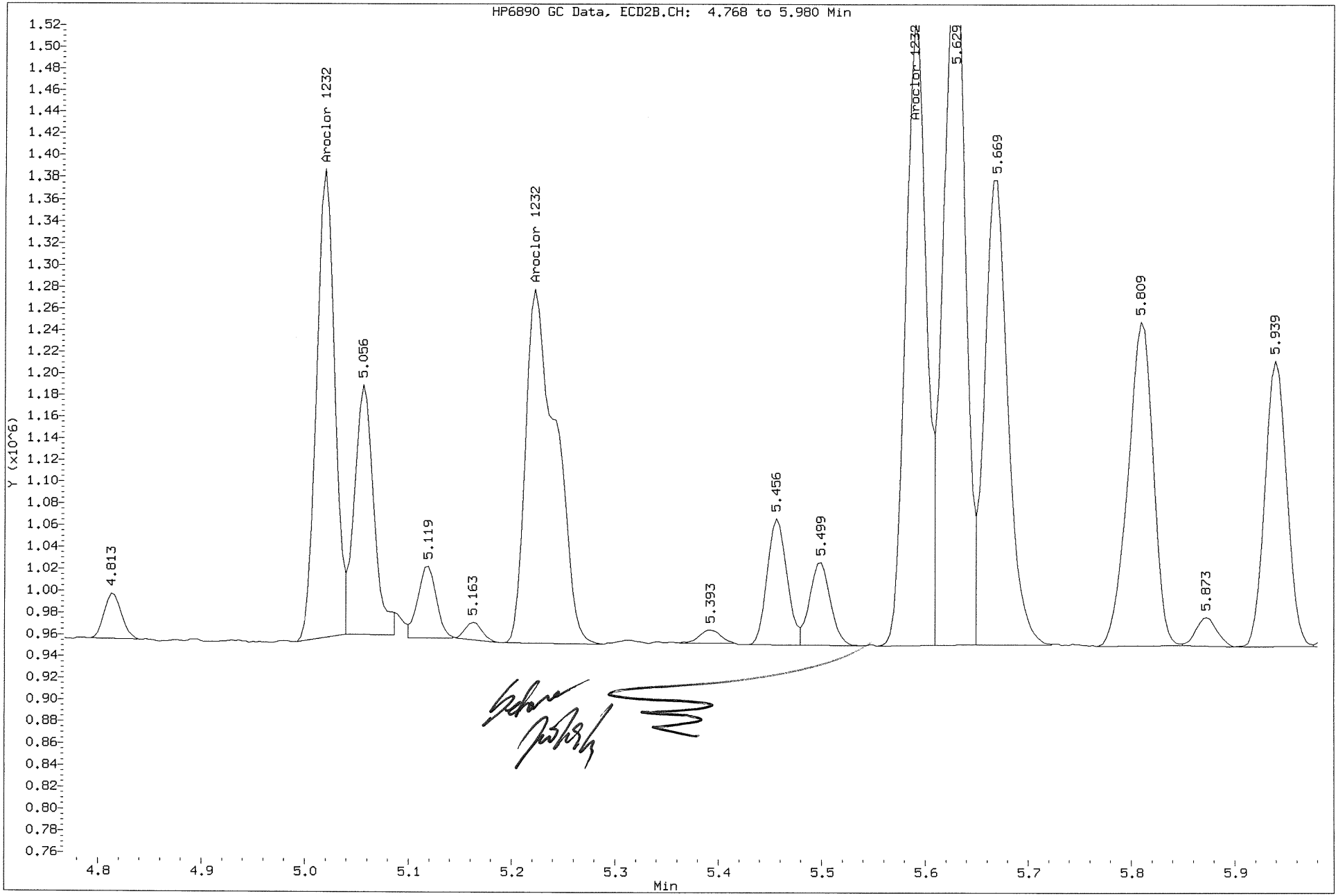
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



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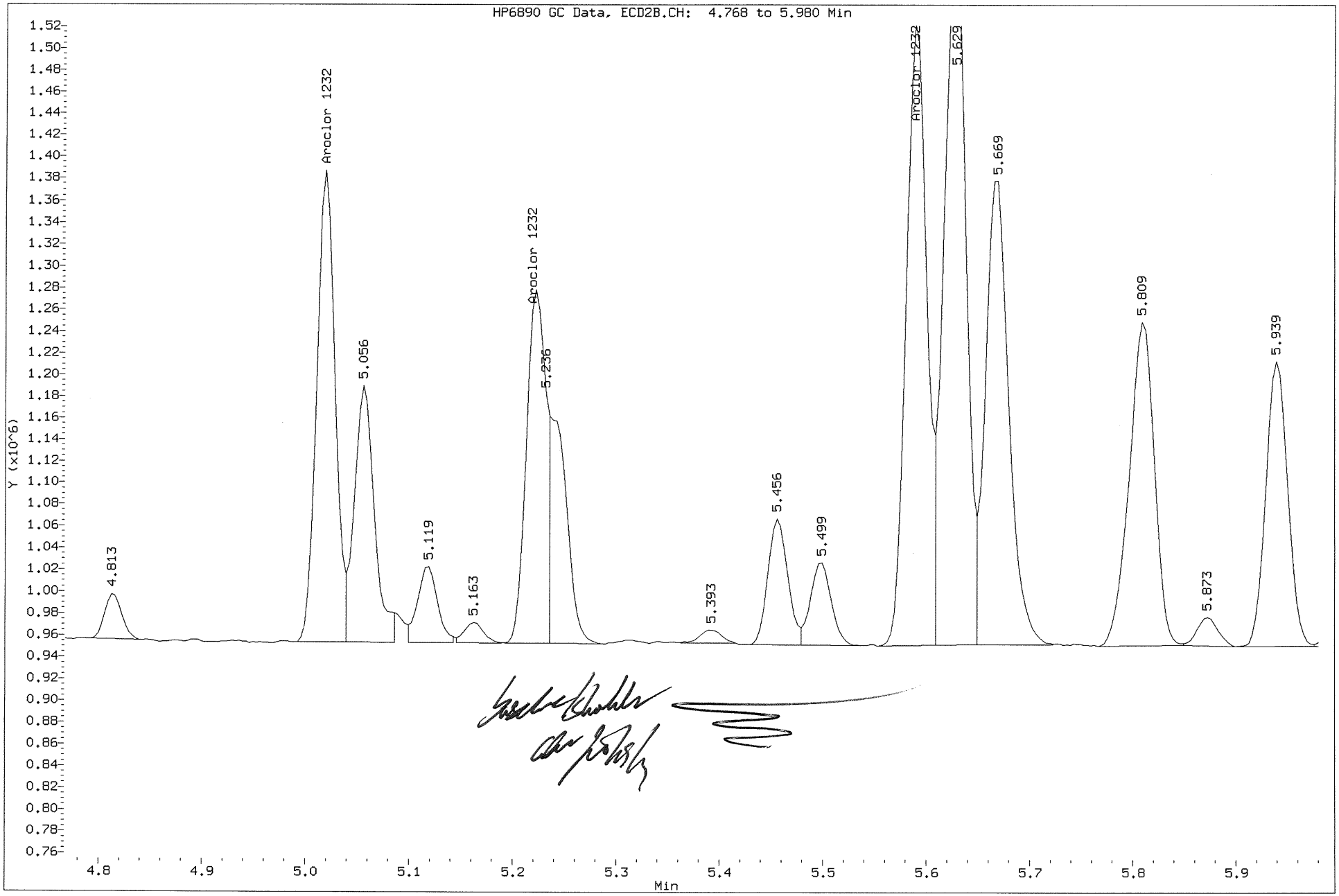
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

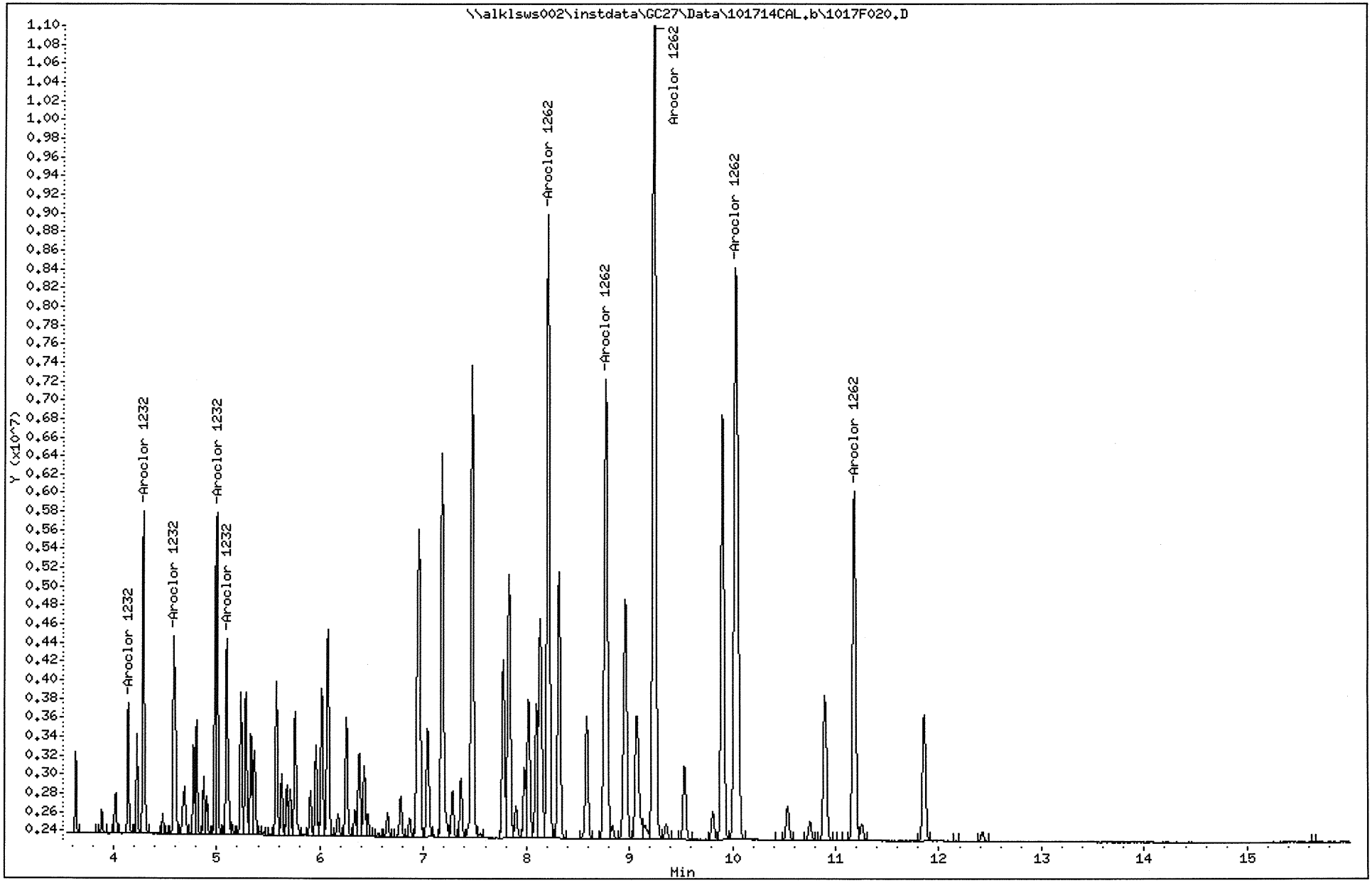
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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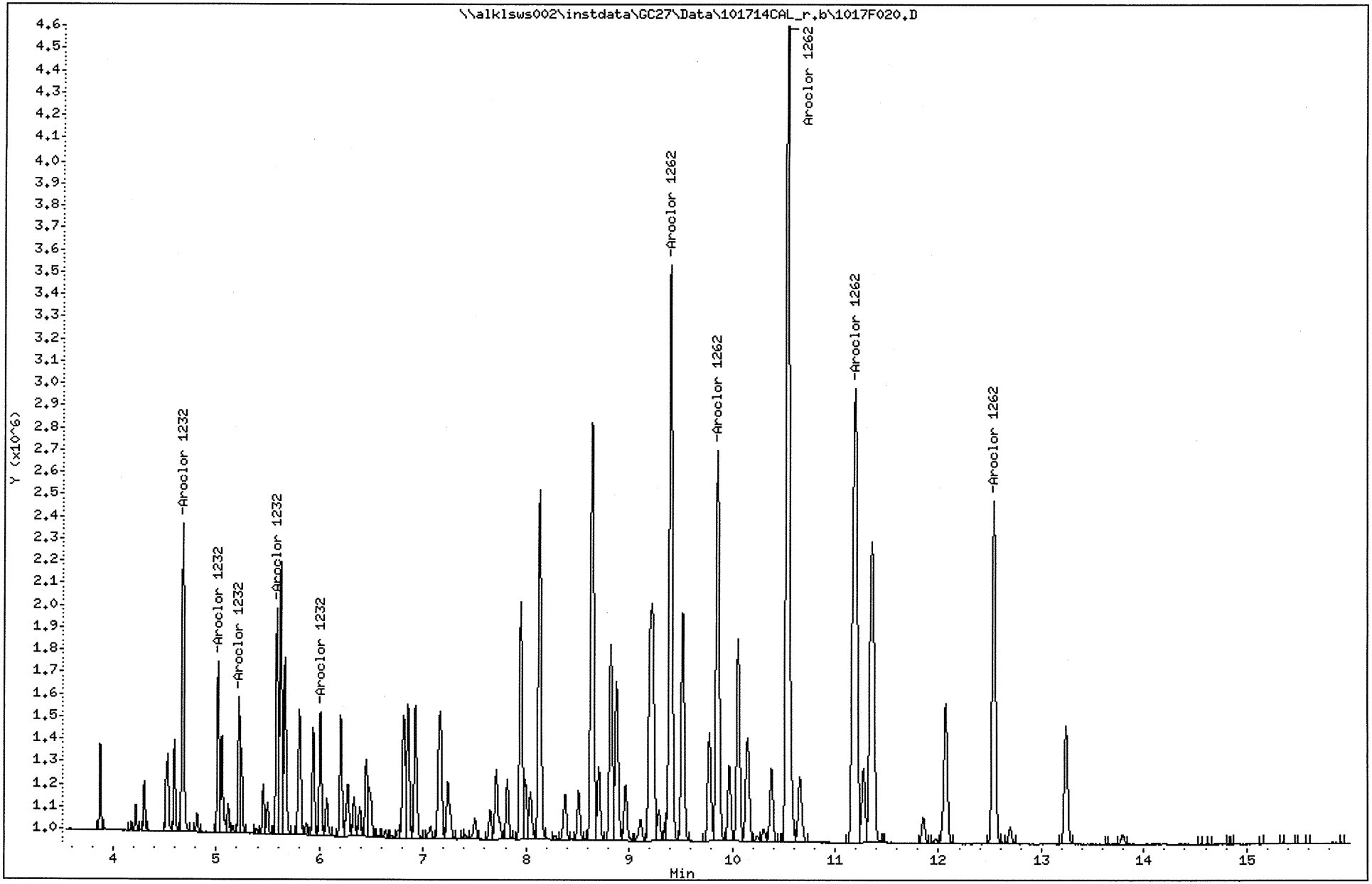
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

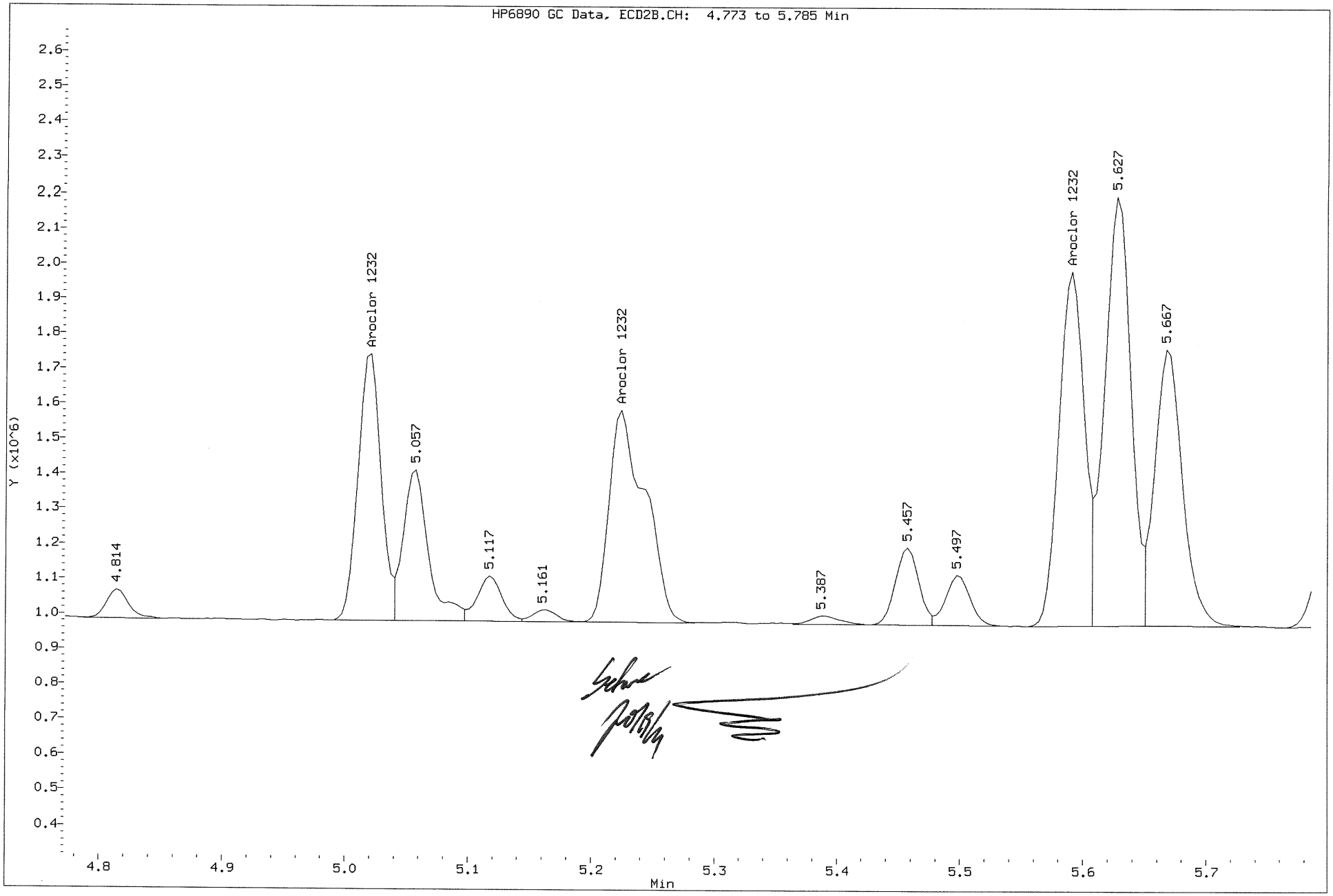
Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



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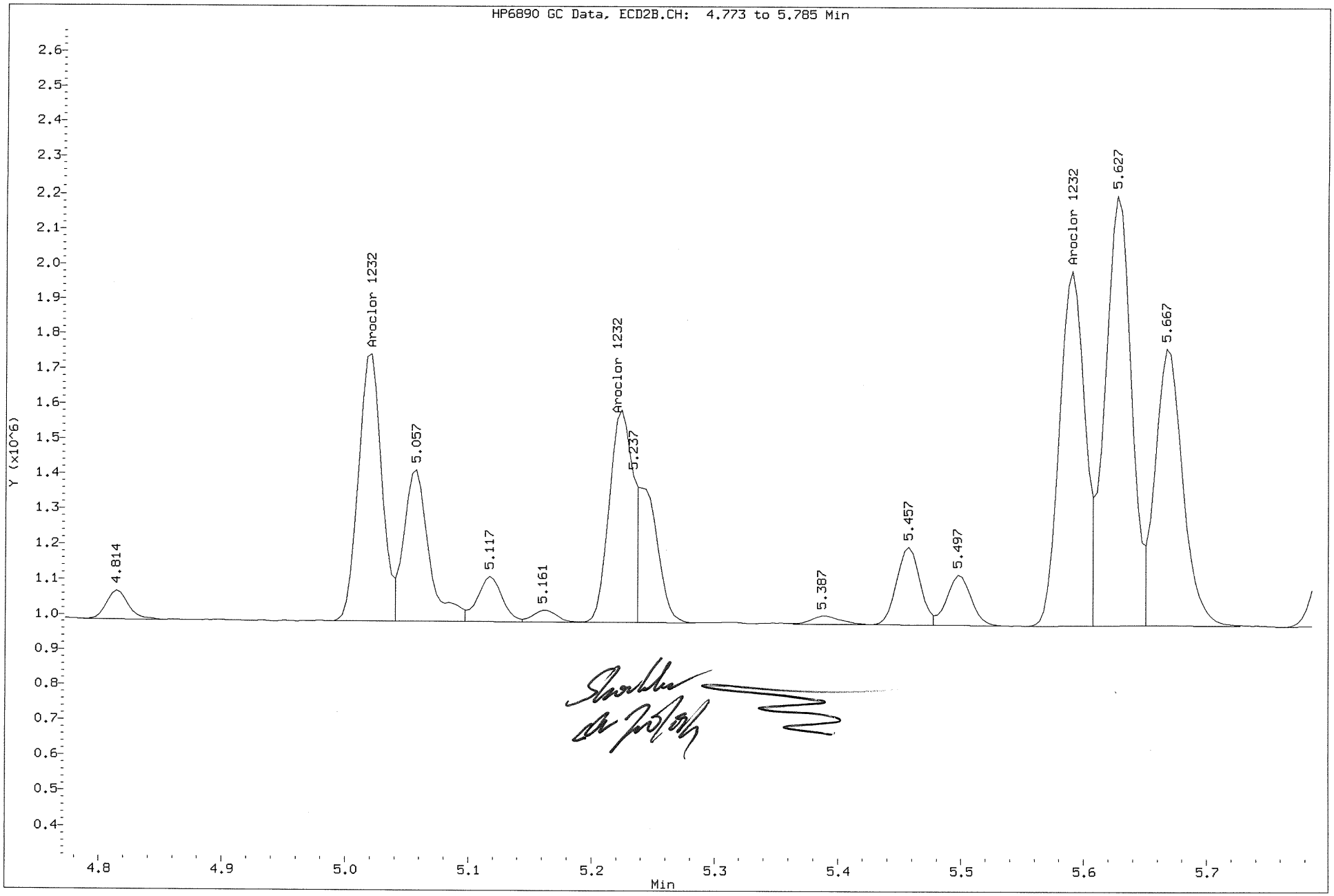
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

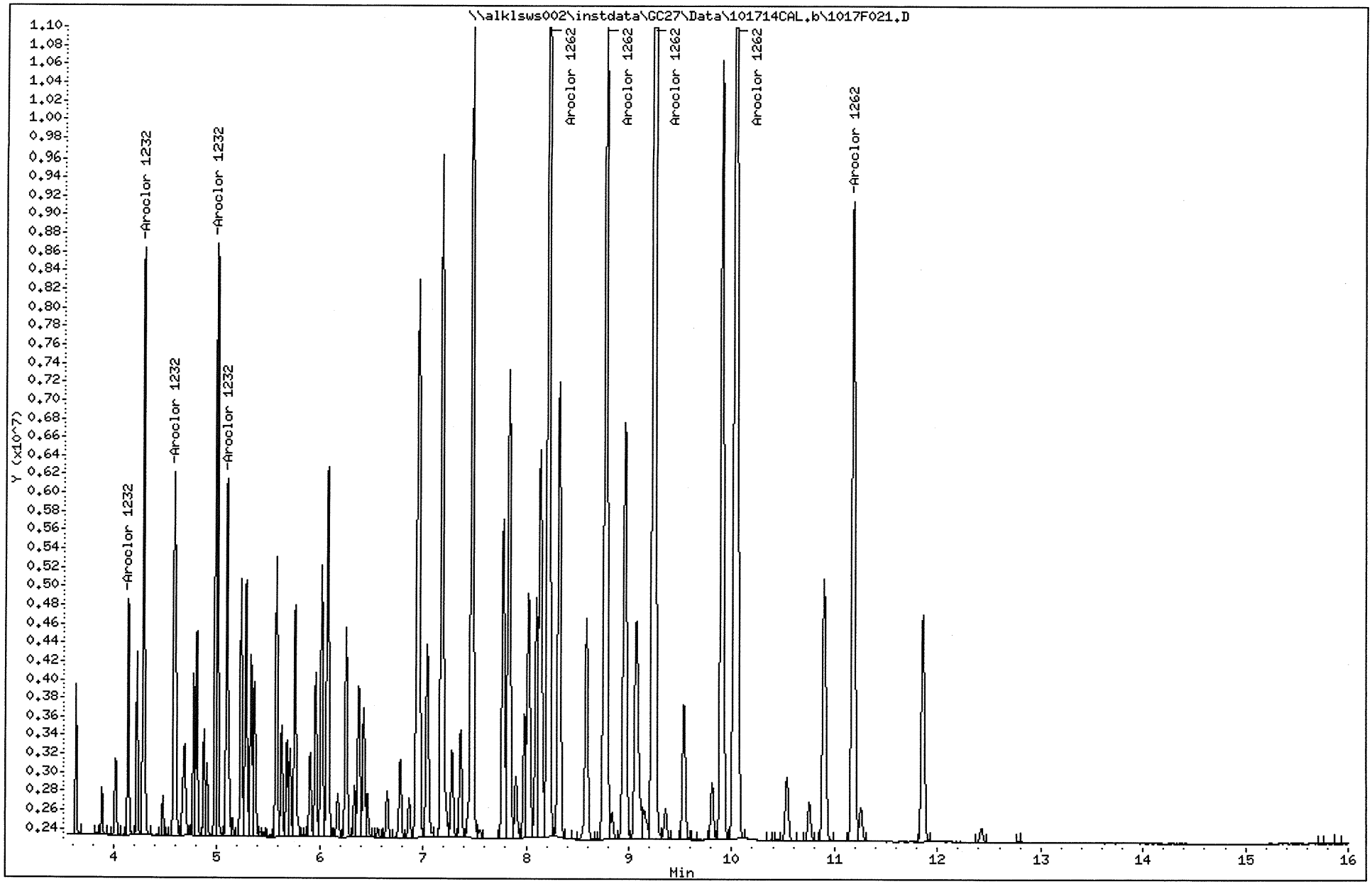
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

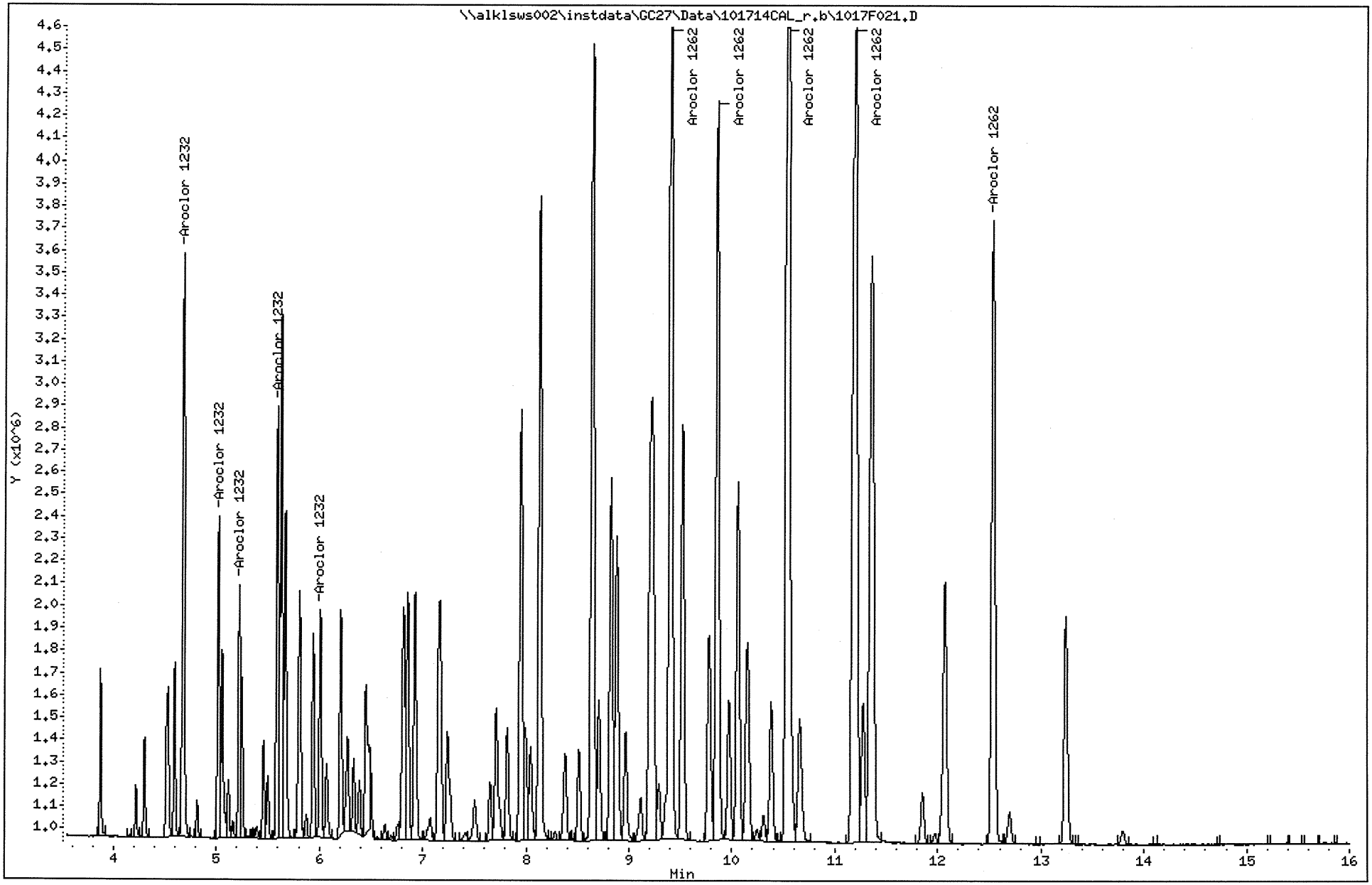


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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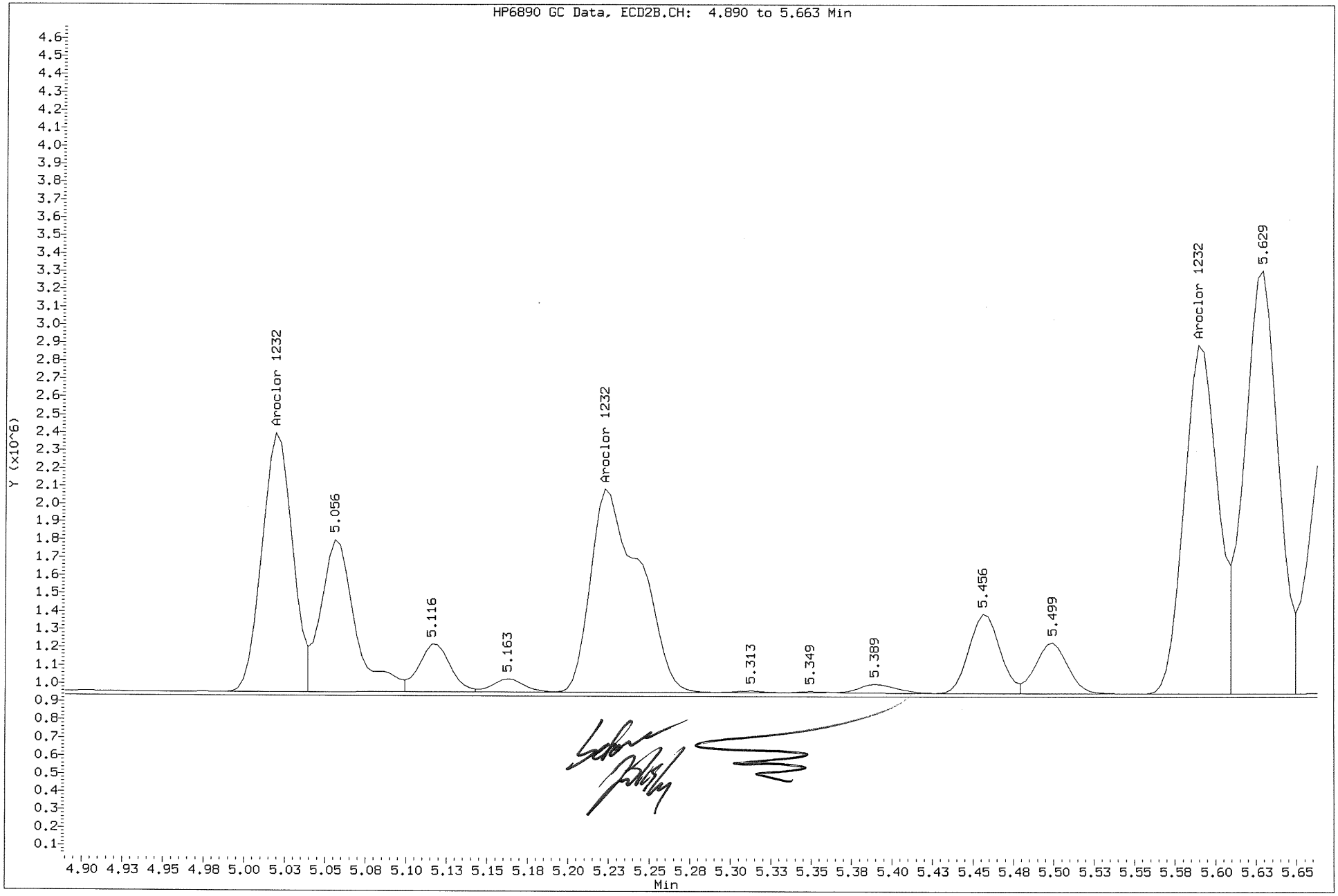
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



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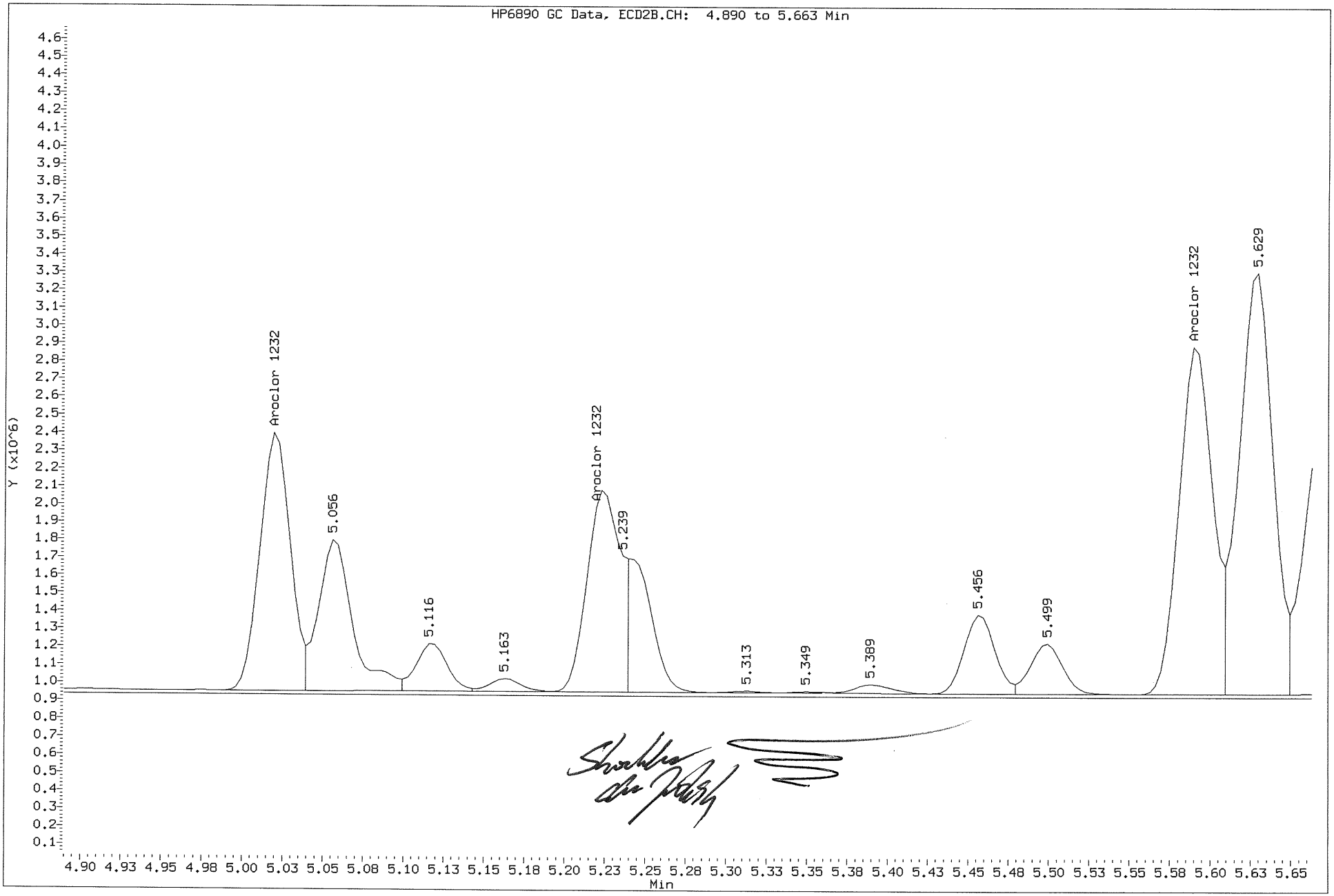
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



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Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

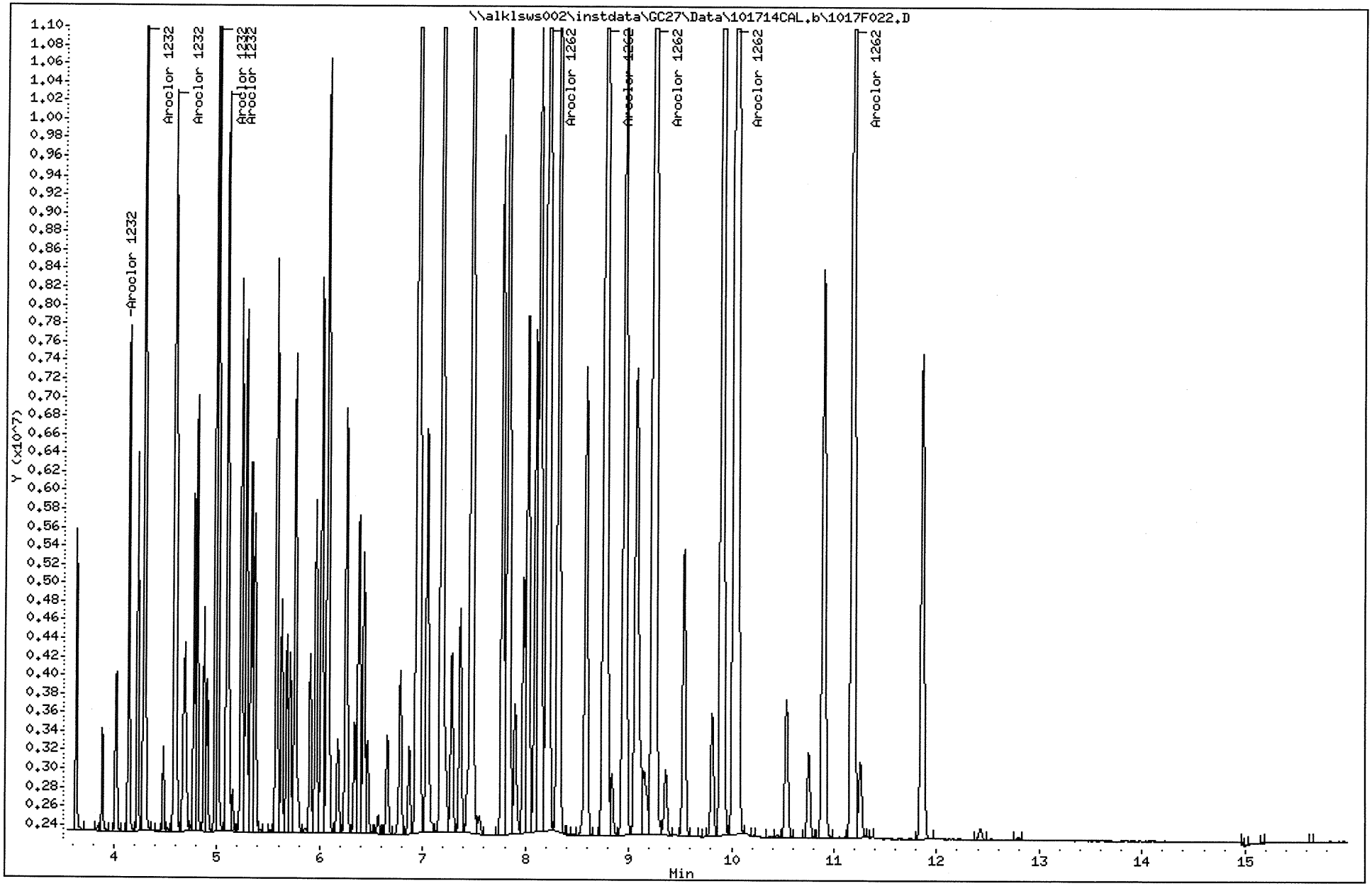
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



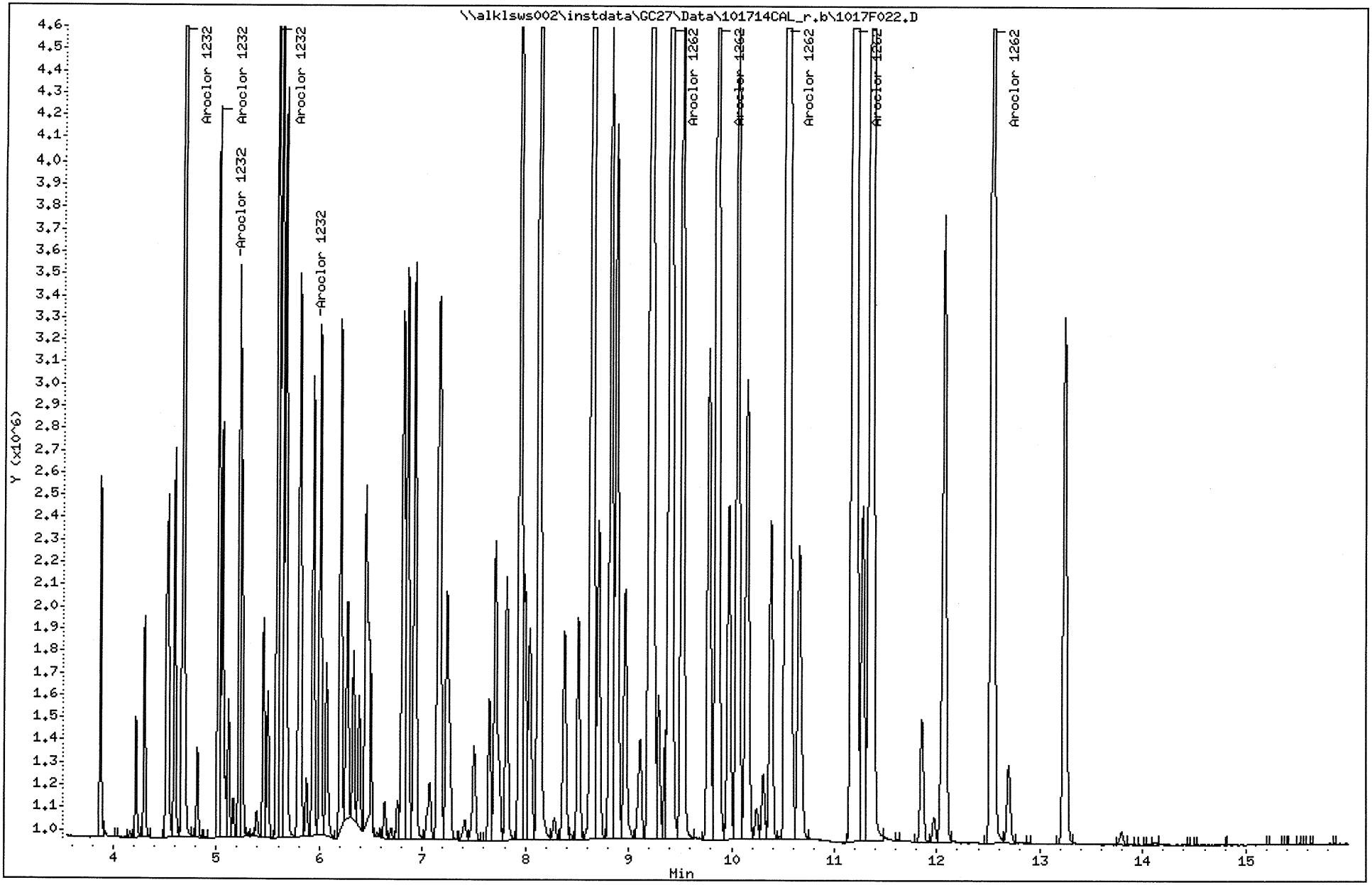
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

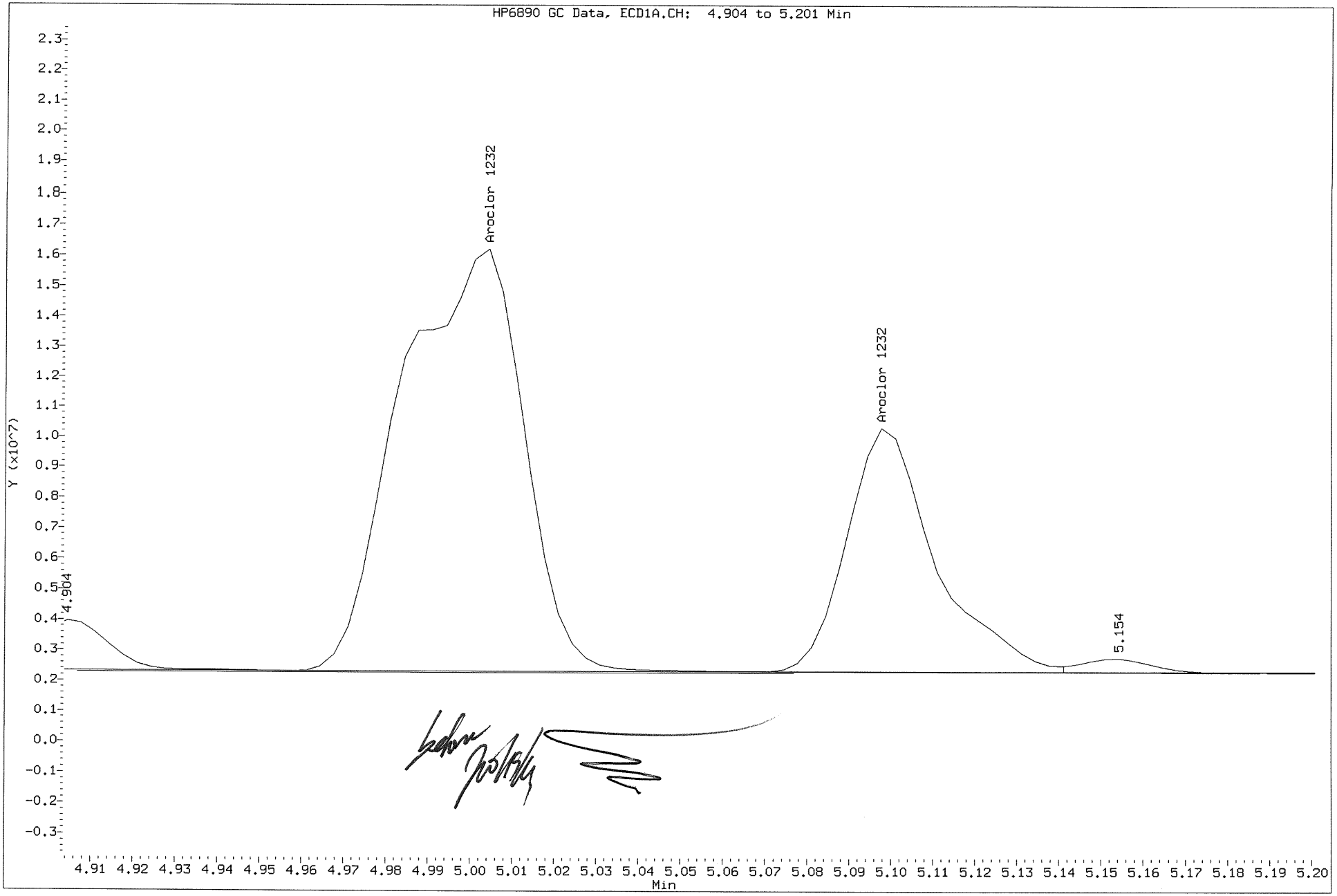
Operator: JMSmith

Column phase: DB-XLB

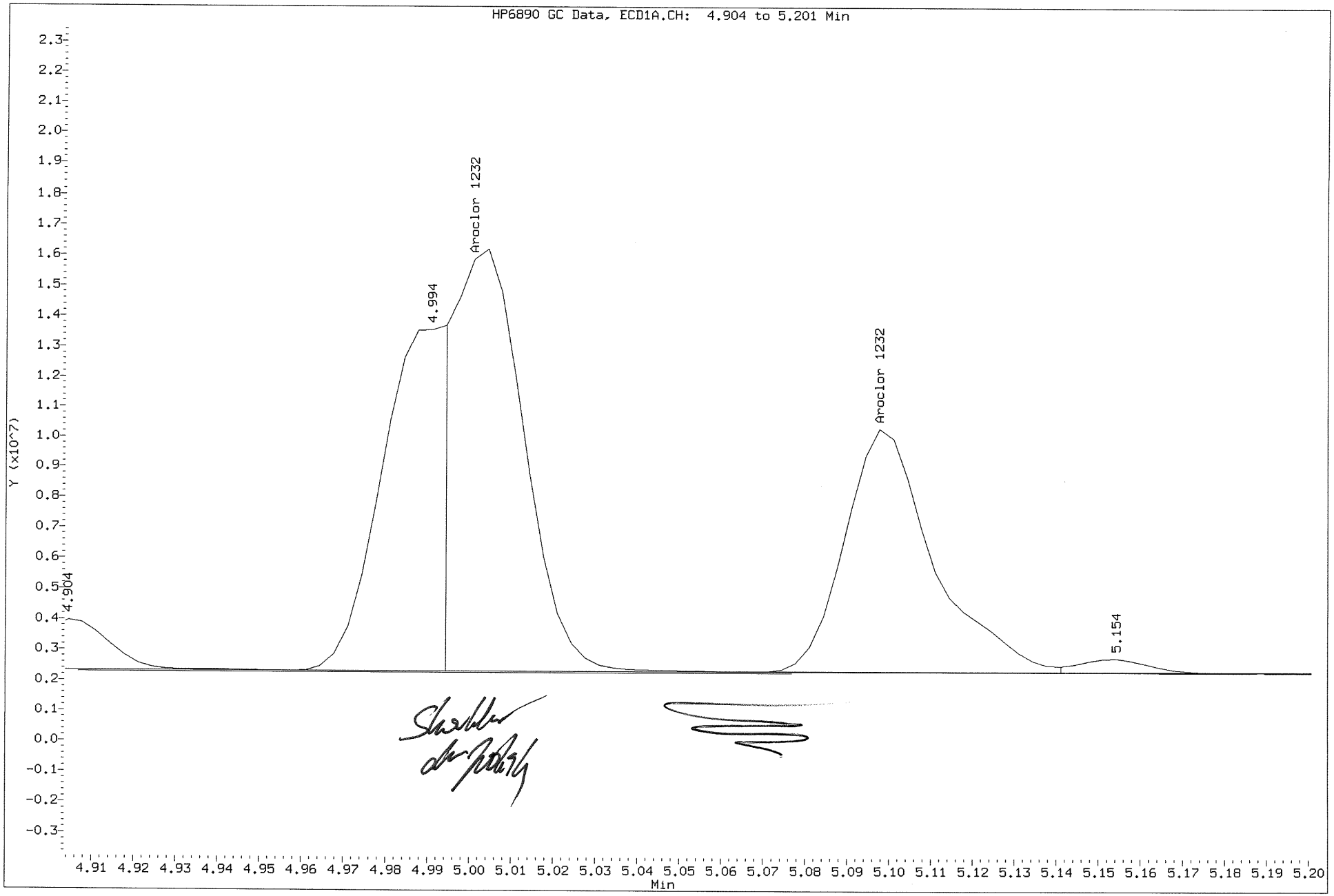
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

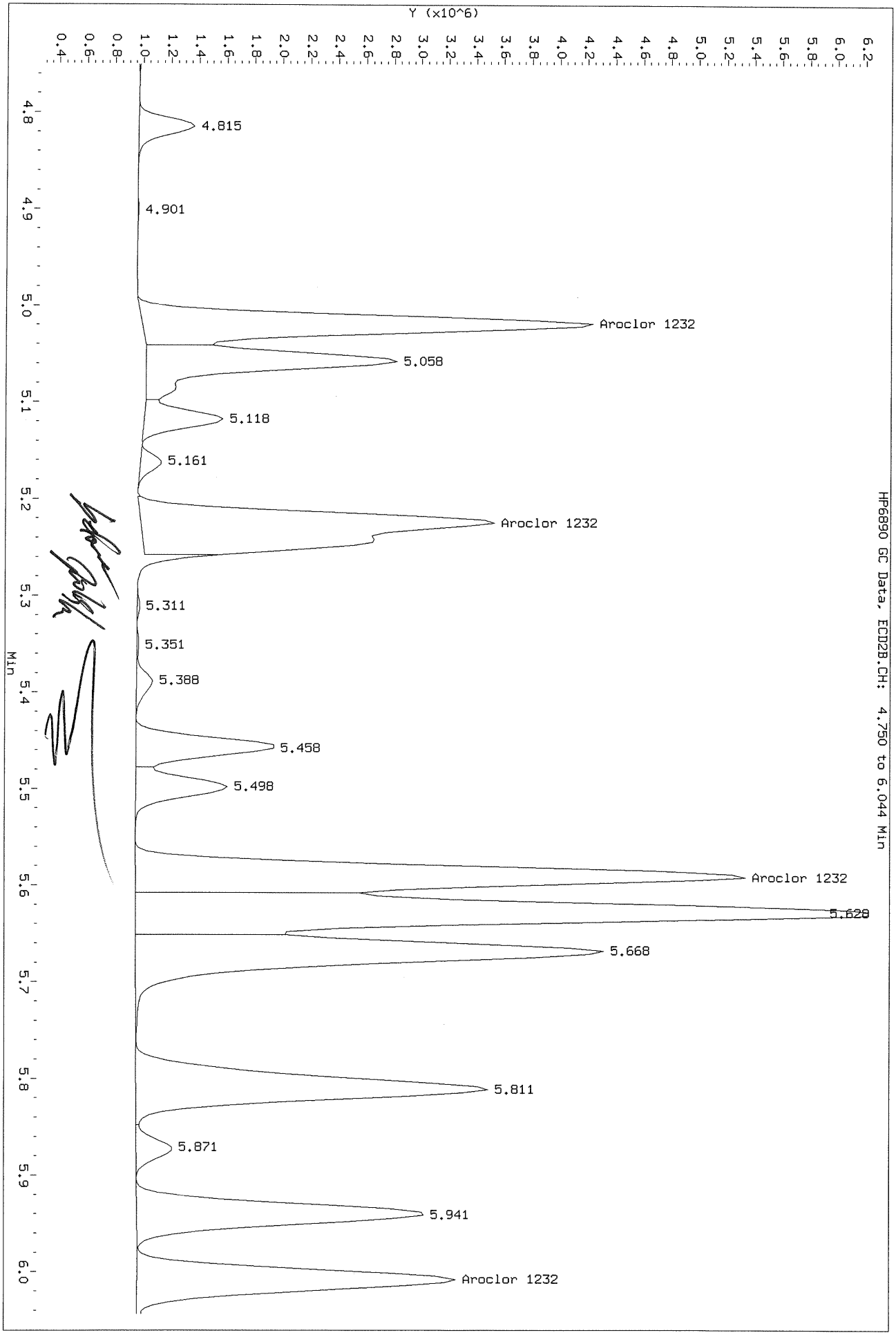


Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

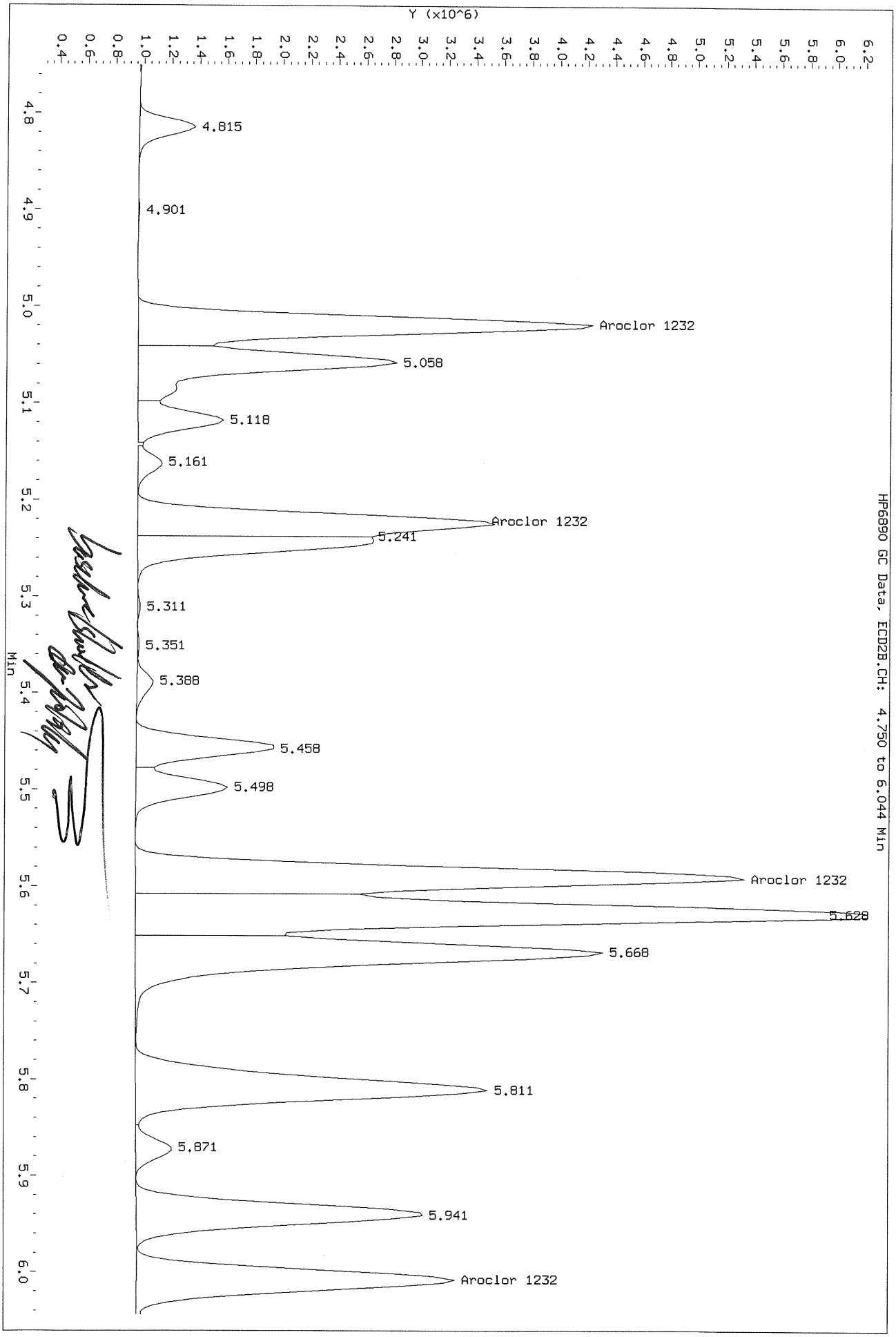


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.750 to 6.044 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

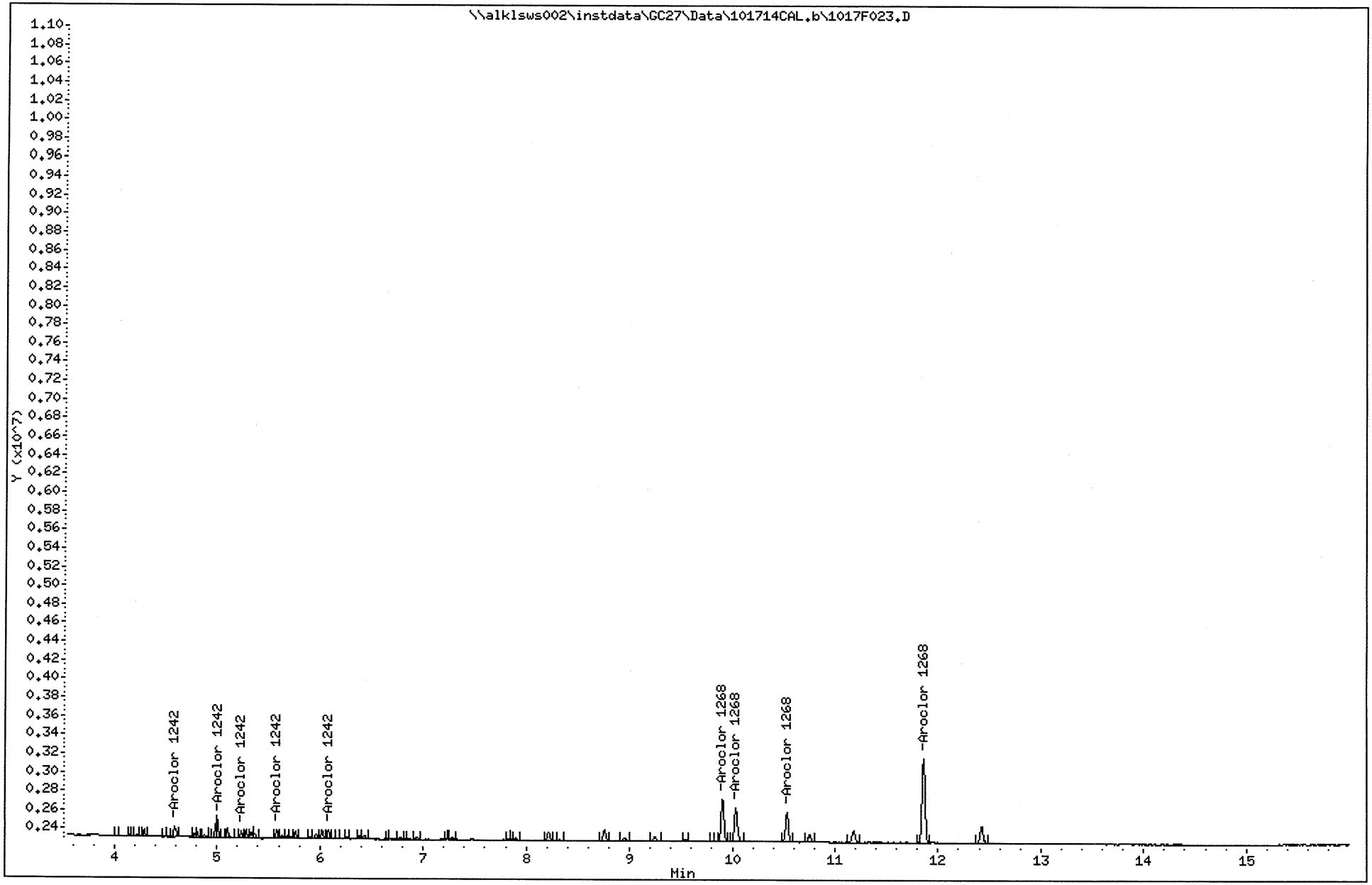
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

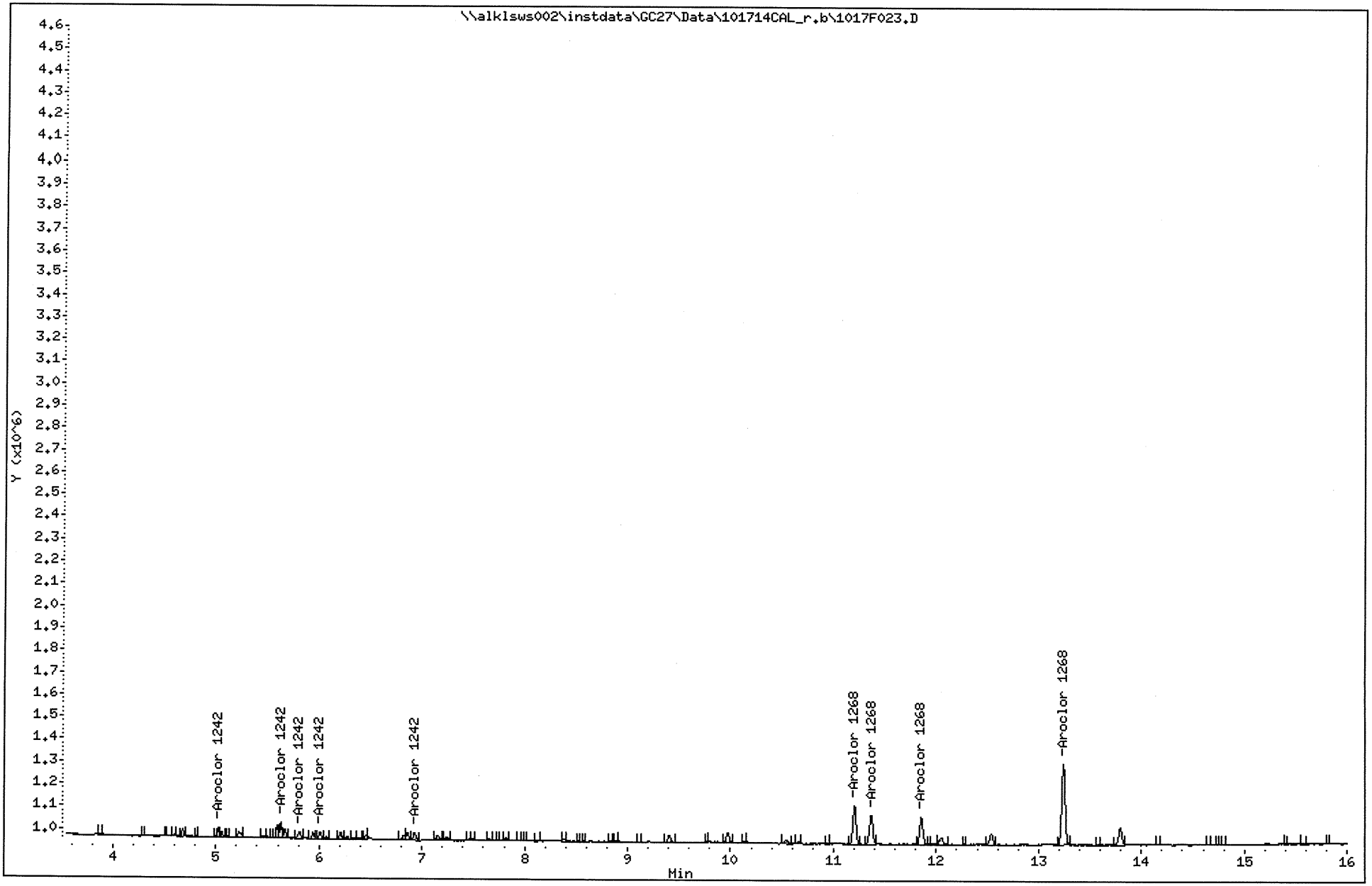


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
		Average of Peak Amounts =			56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
		Average of Peak Amounts =			59.0	52.4		

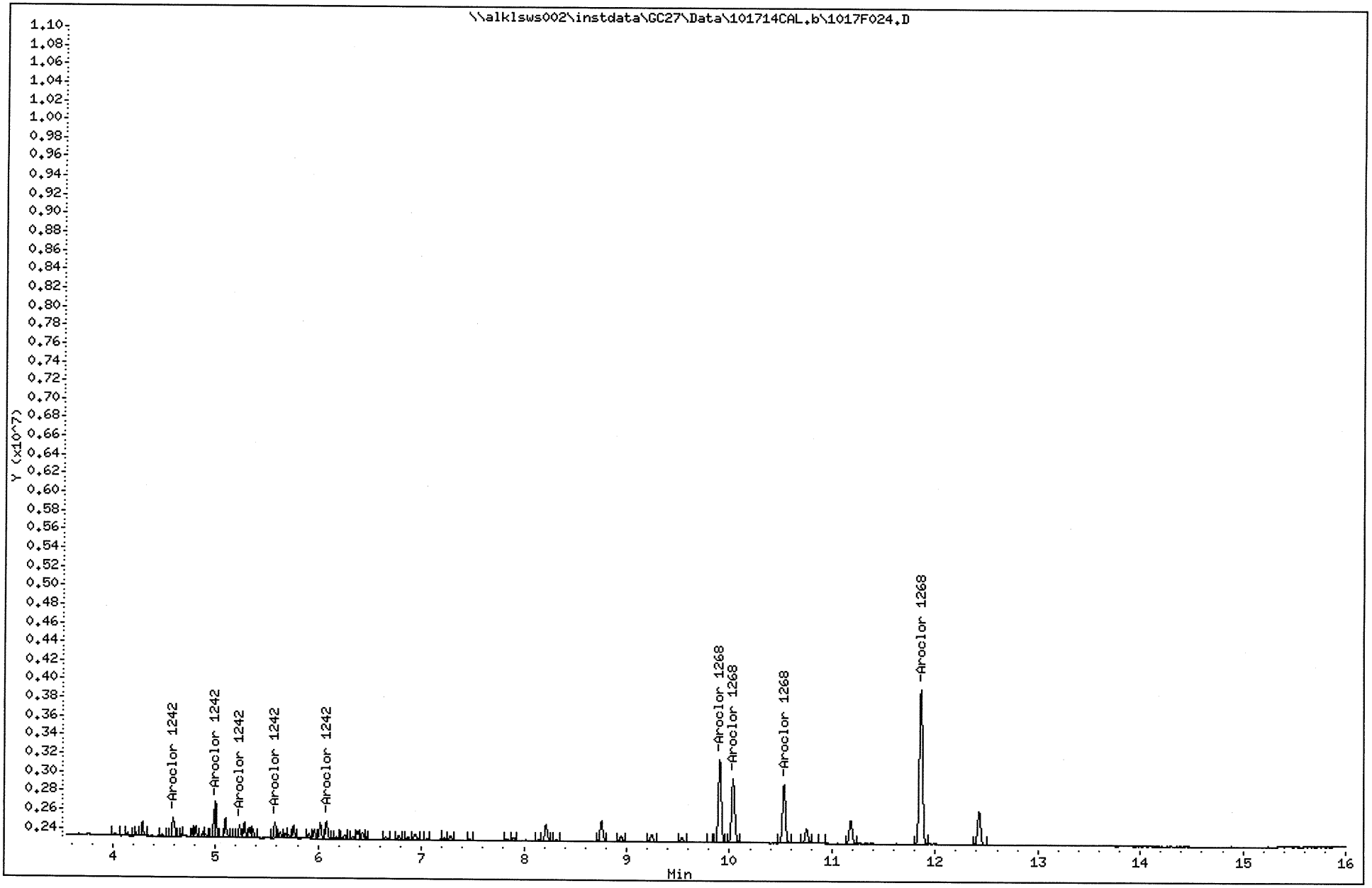
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



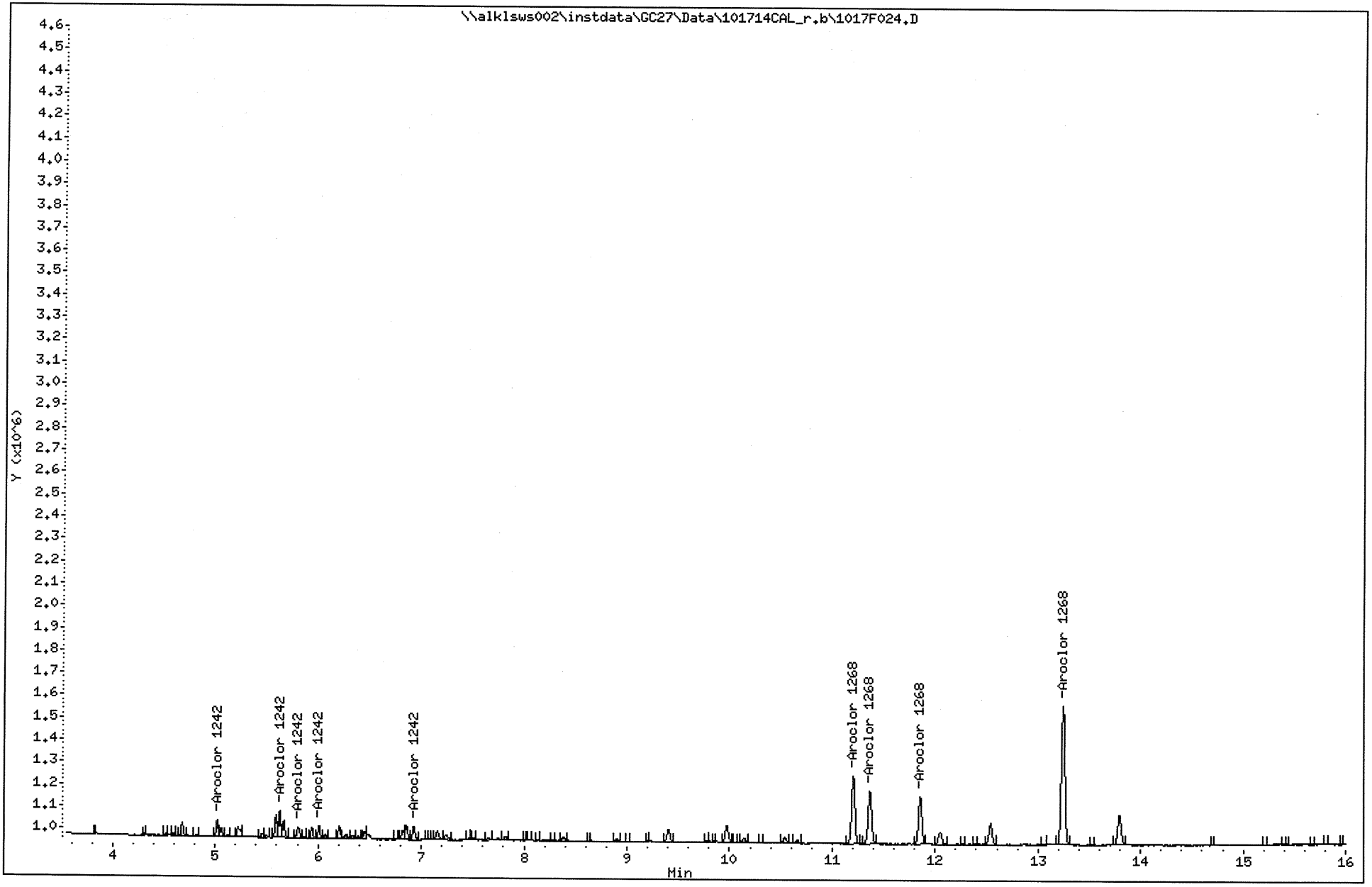
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

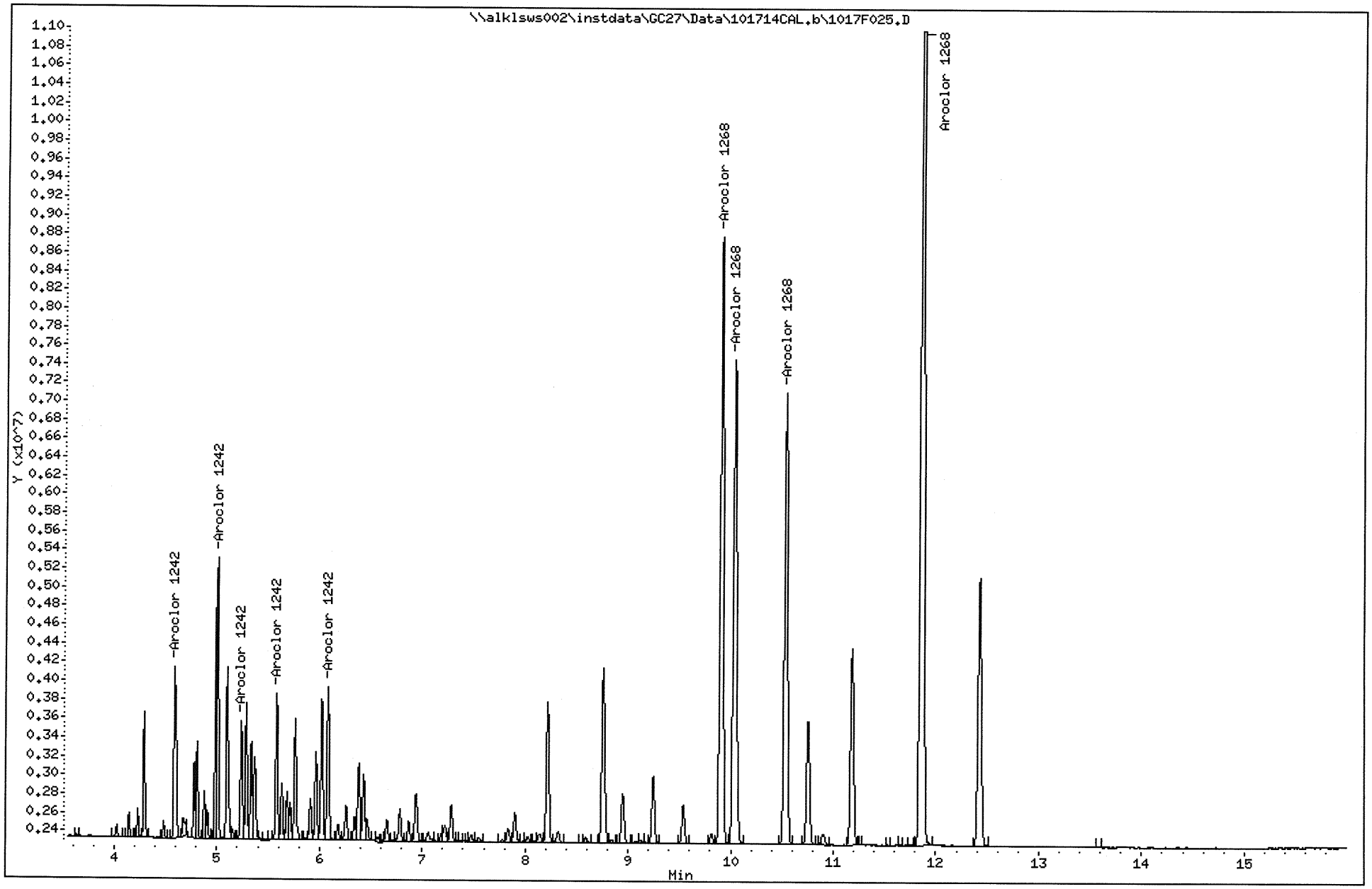
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



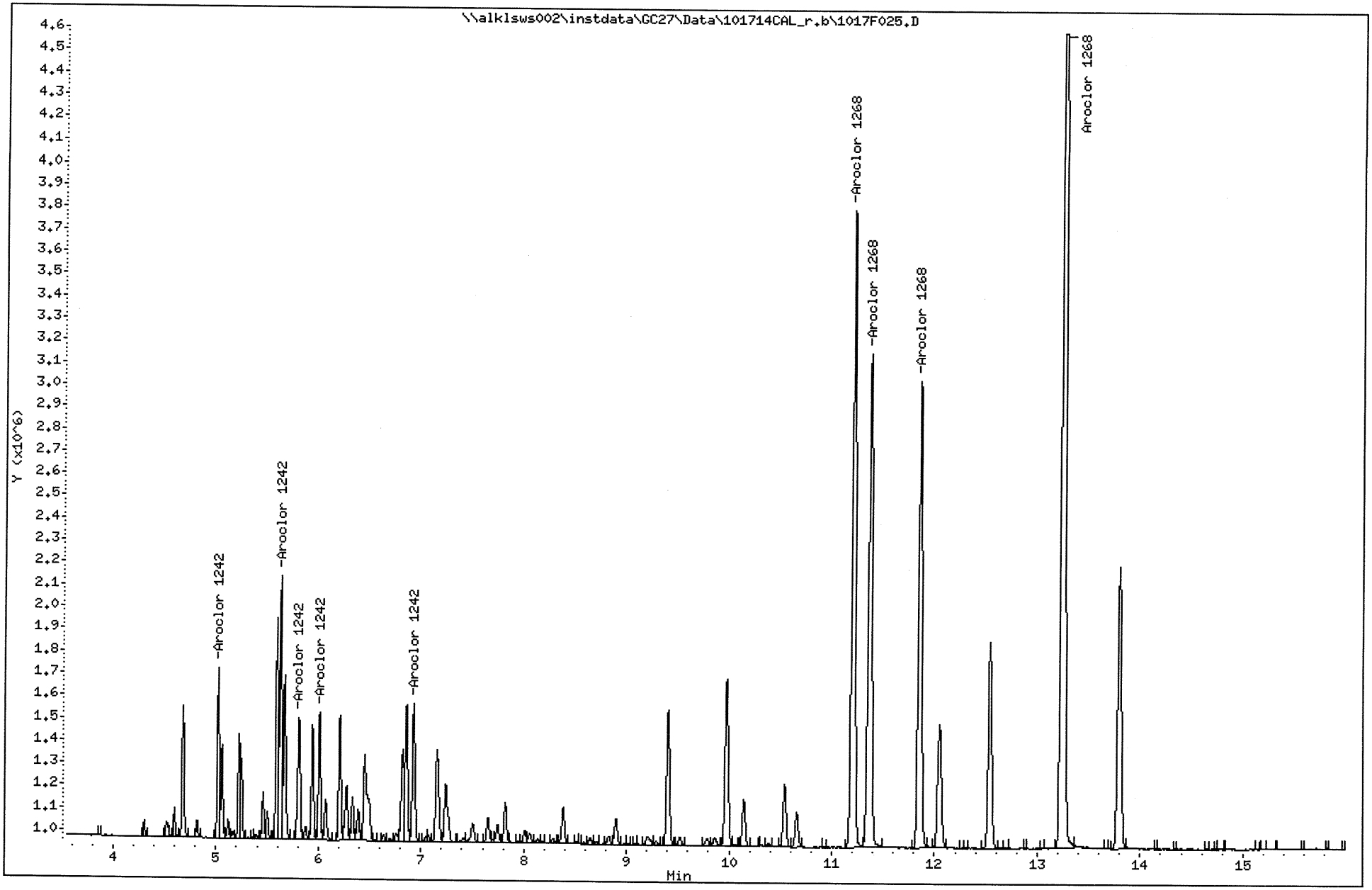
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

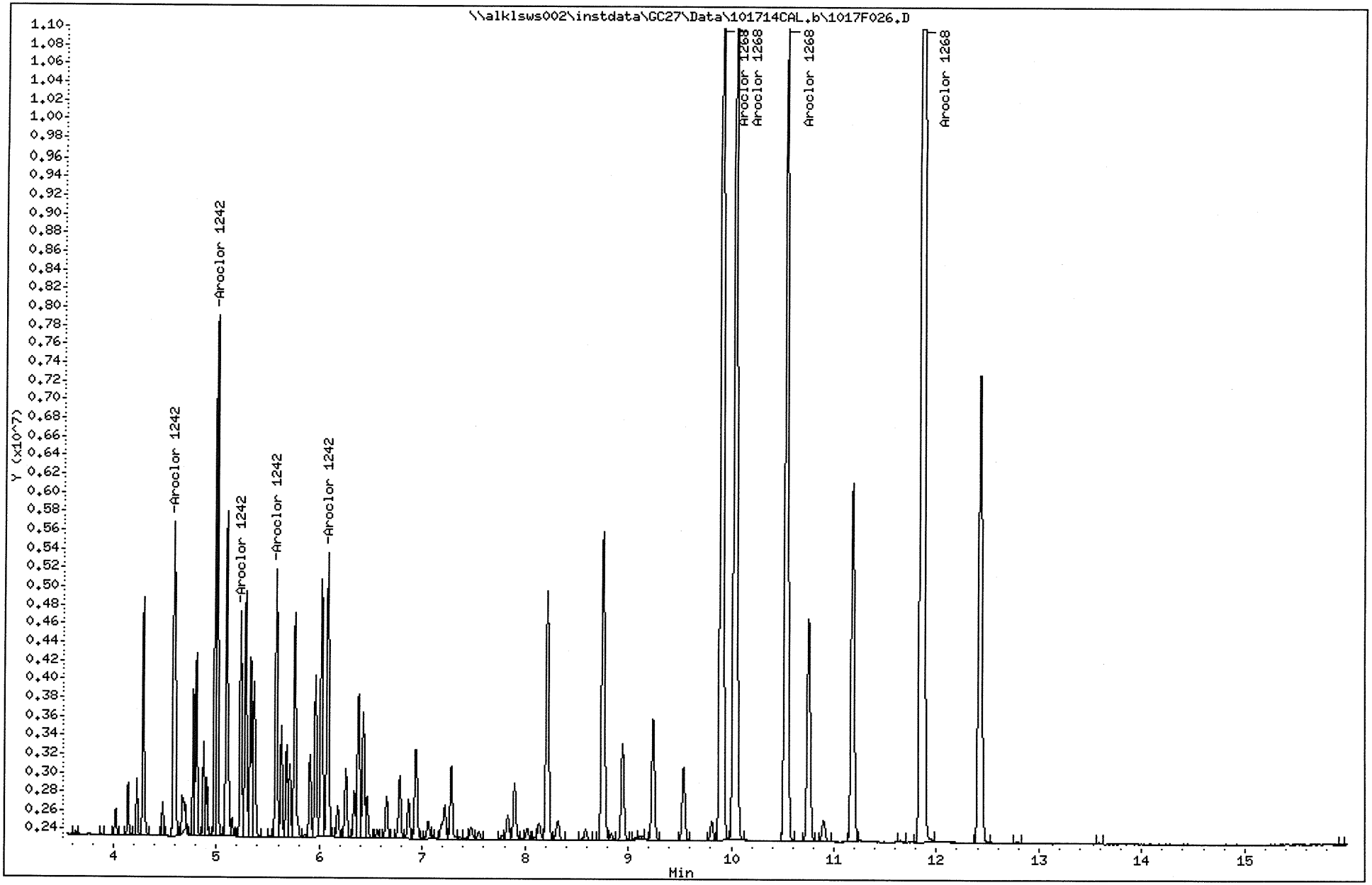
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

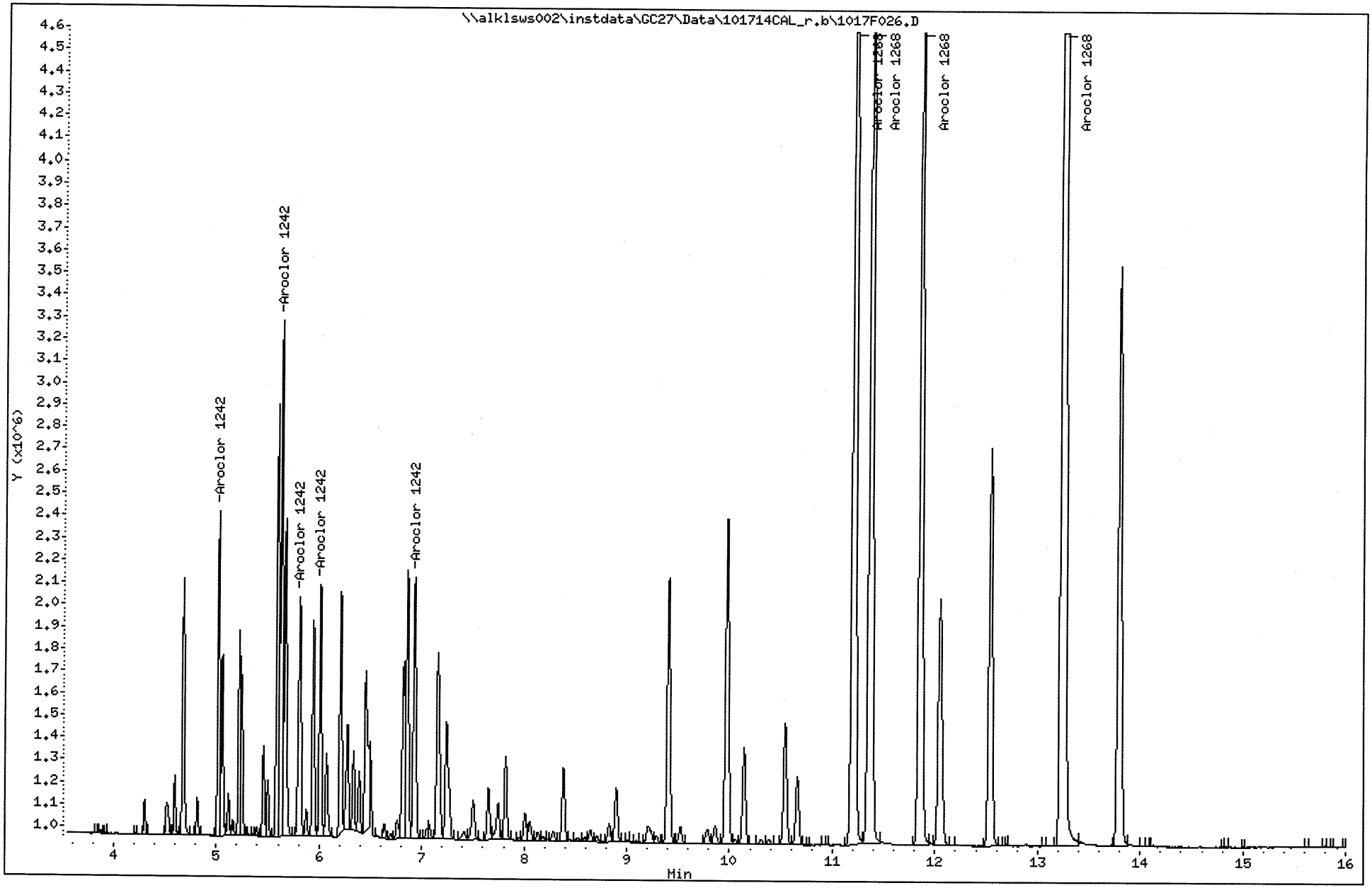


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

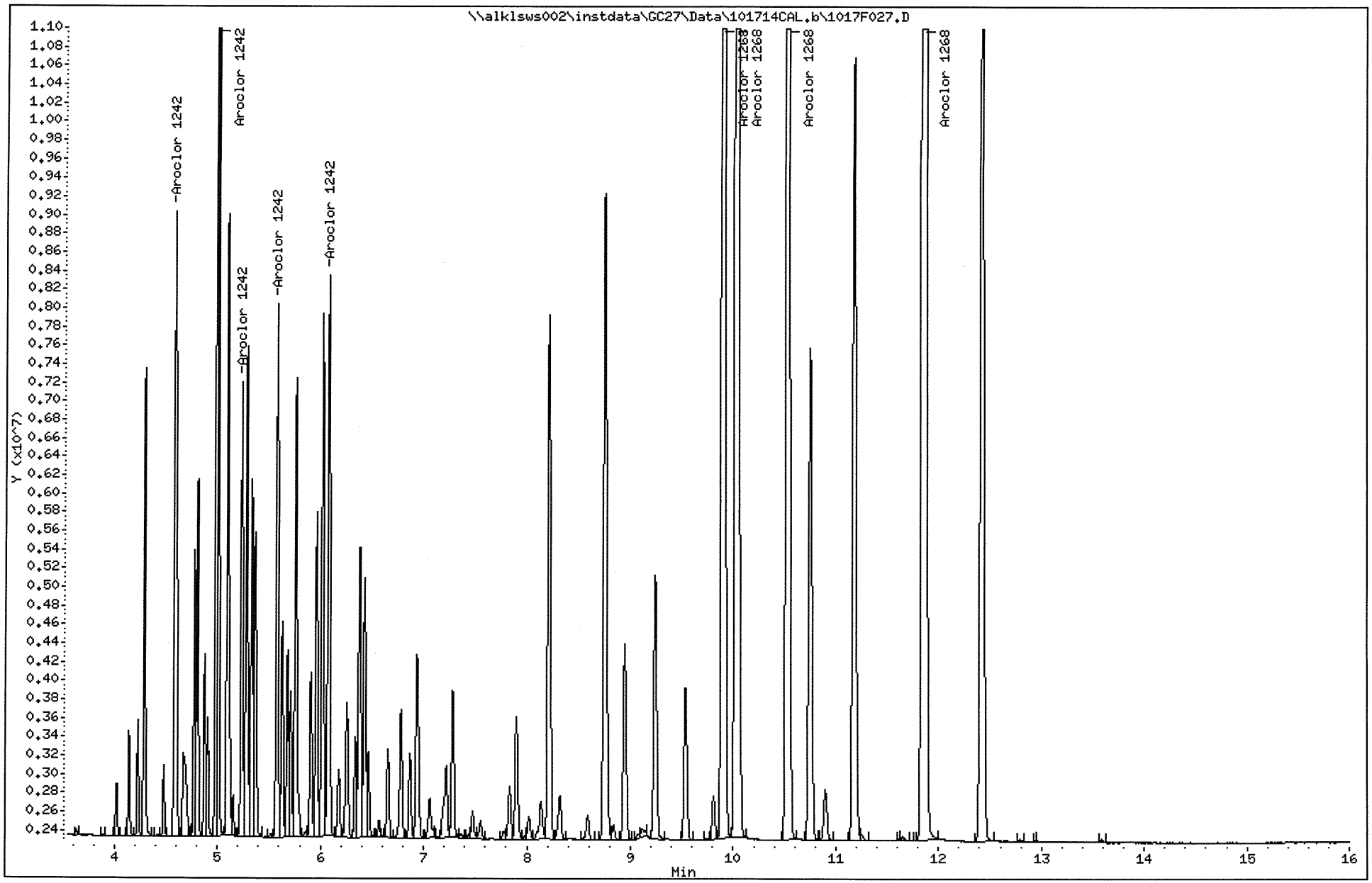
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



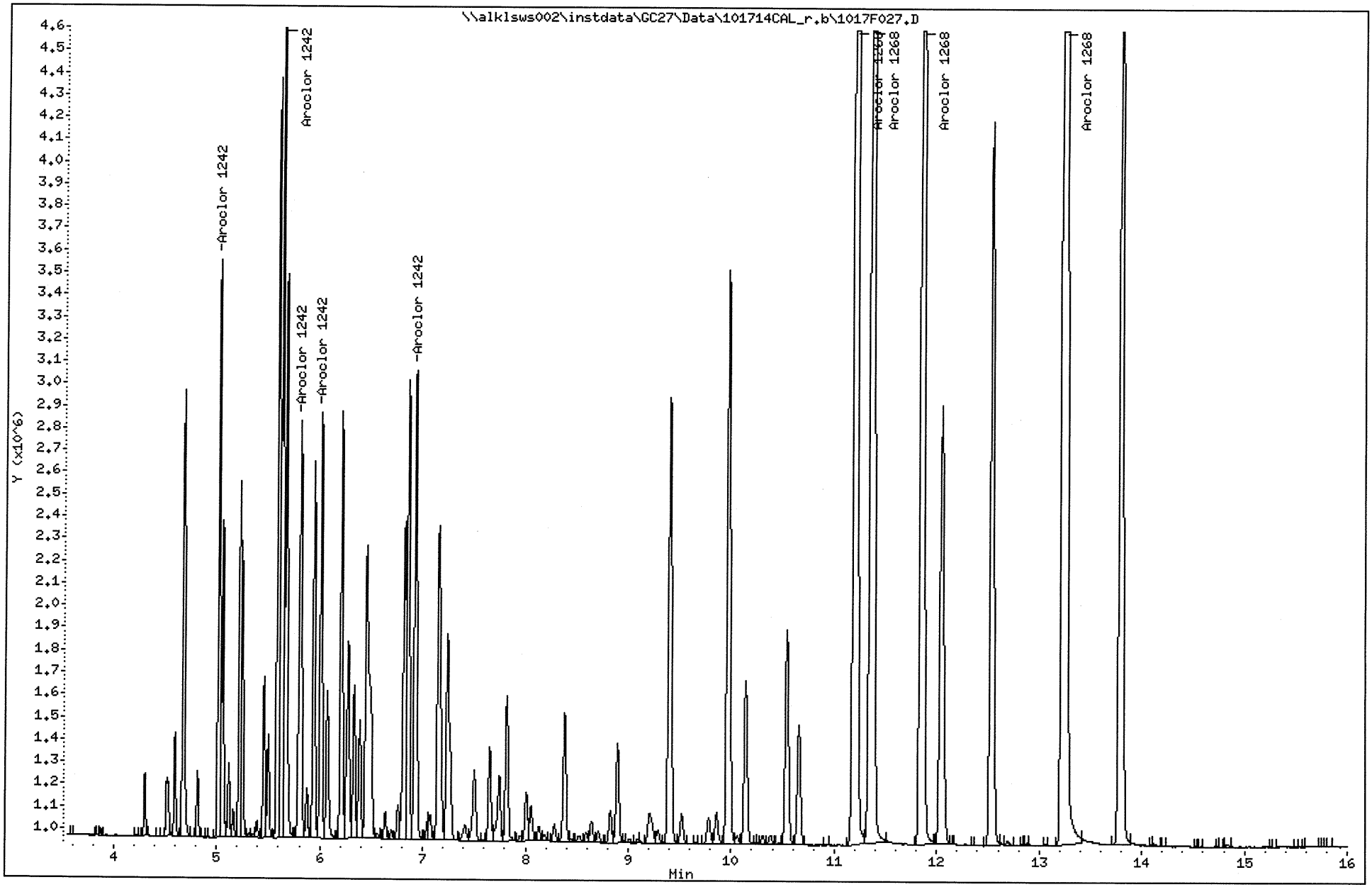
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

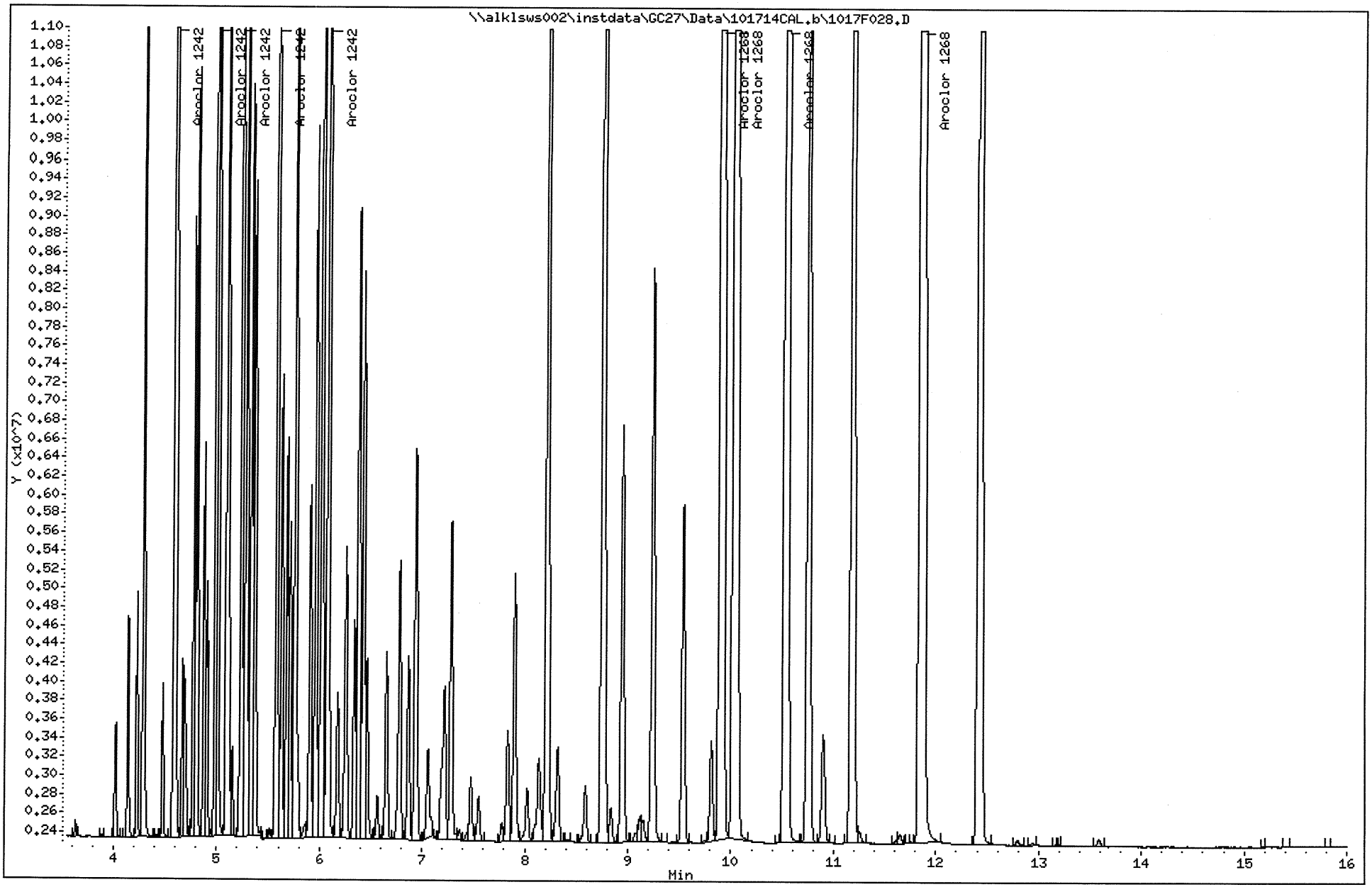
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



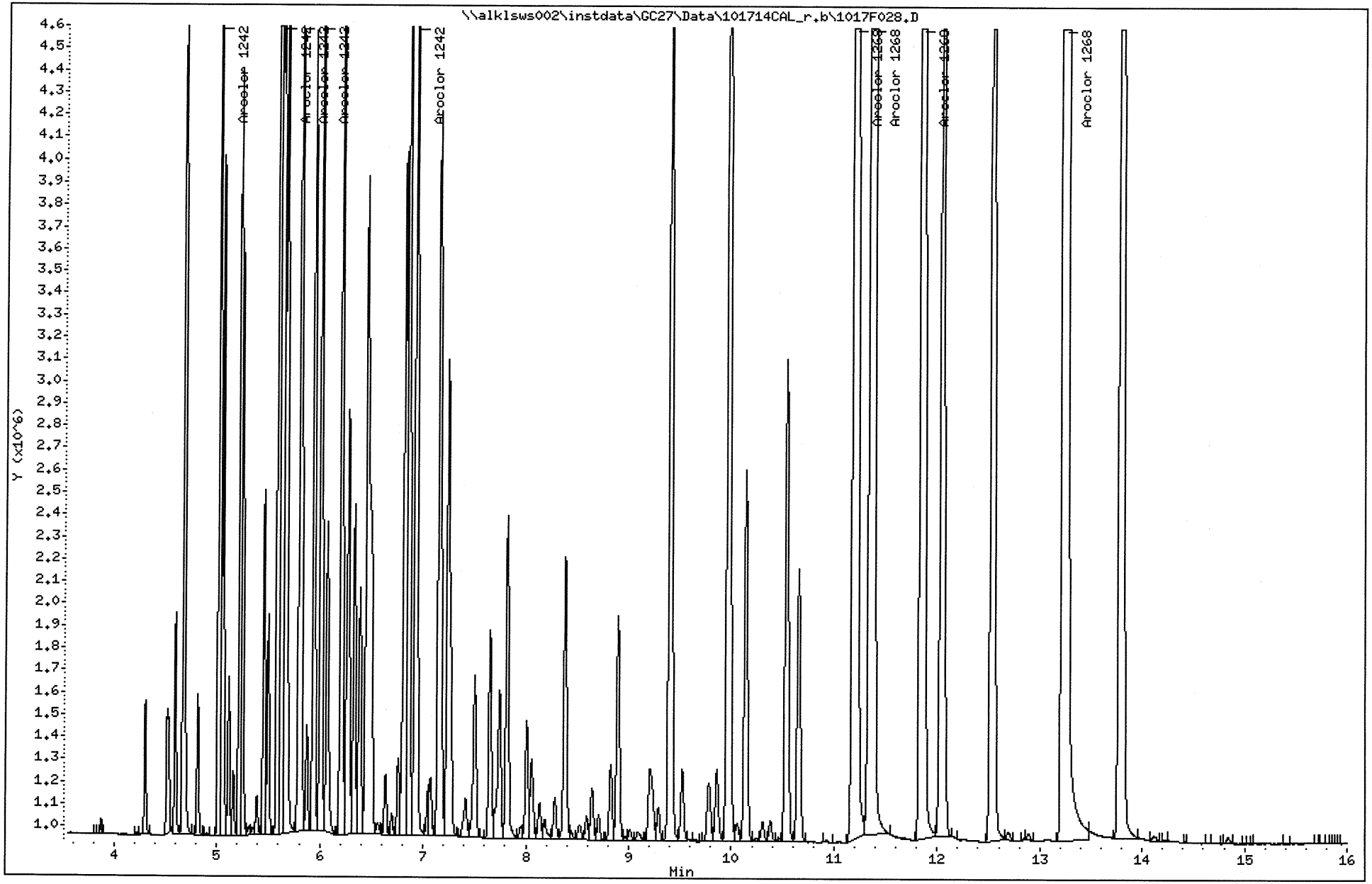
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

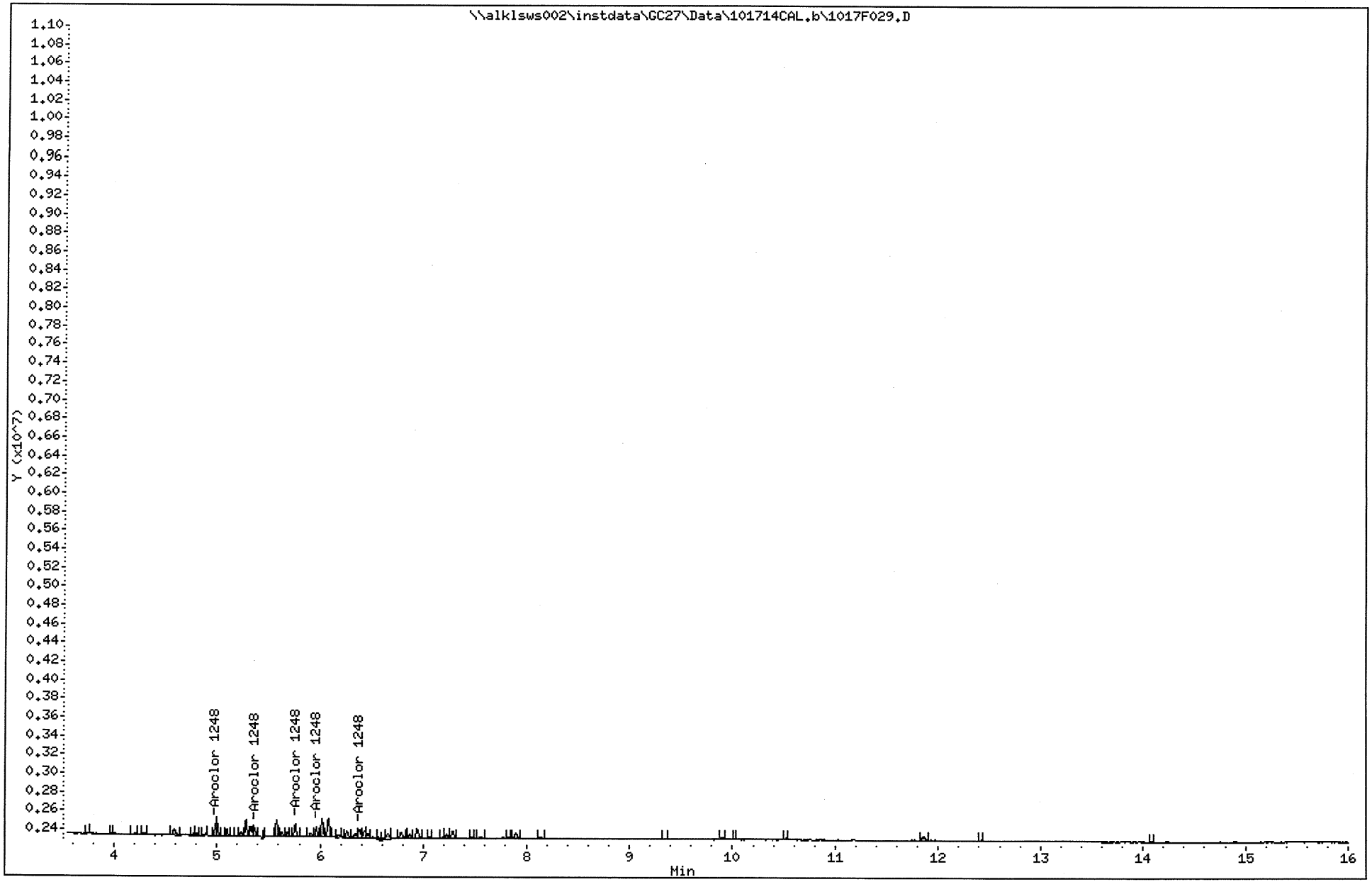
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



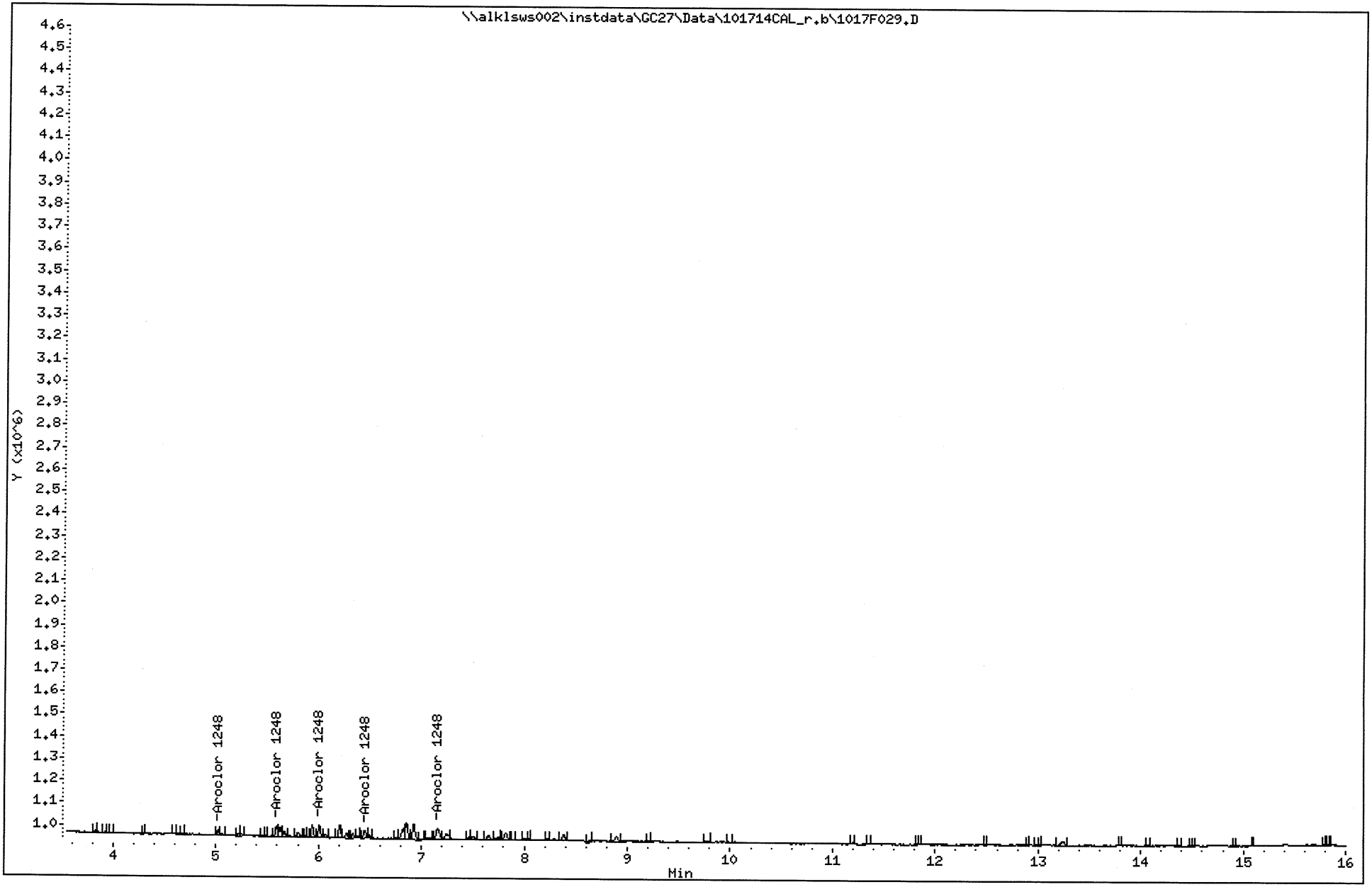
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

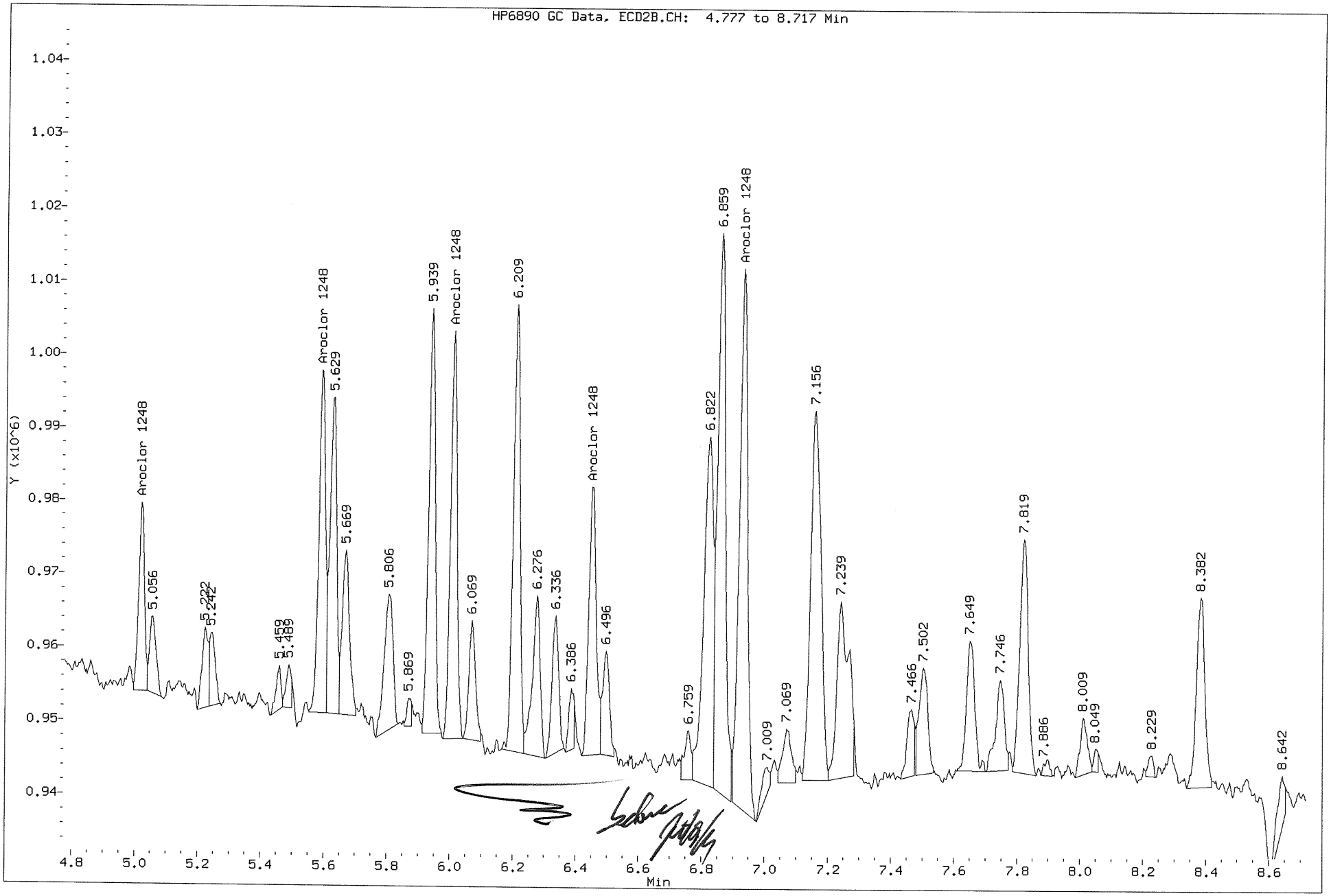
Operator: JMSmith

Column phase: DB-XLB

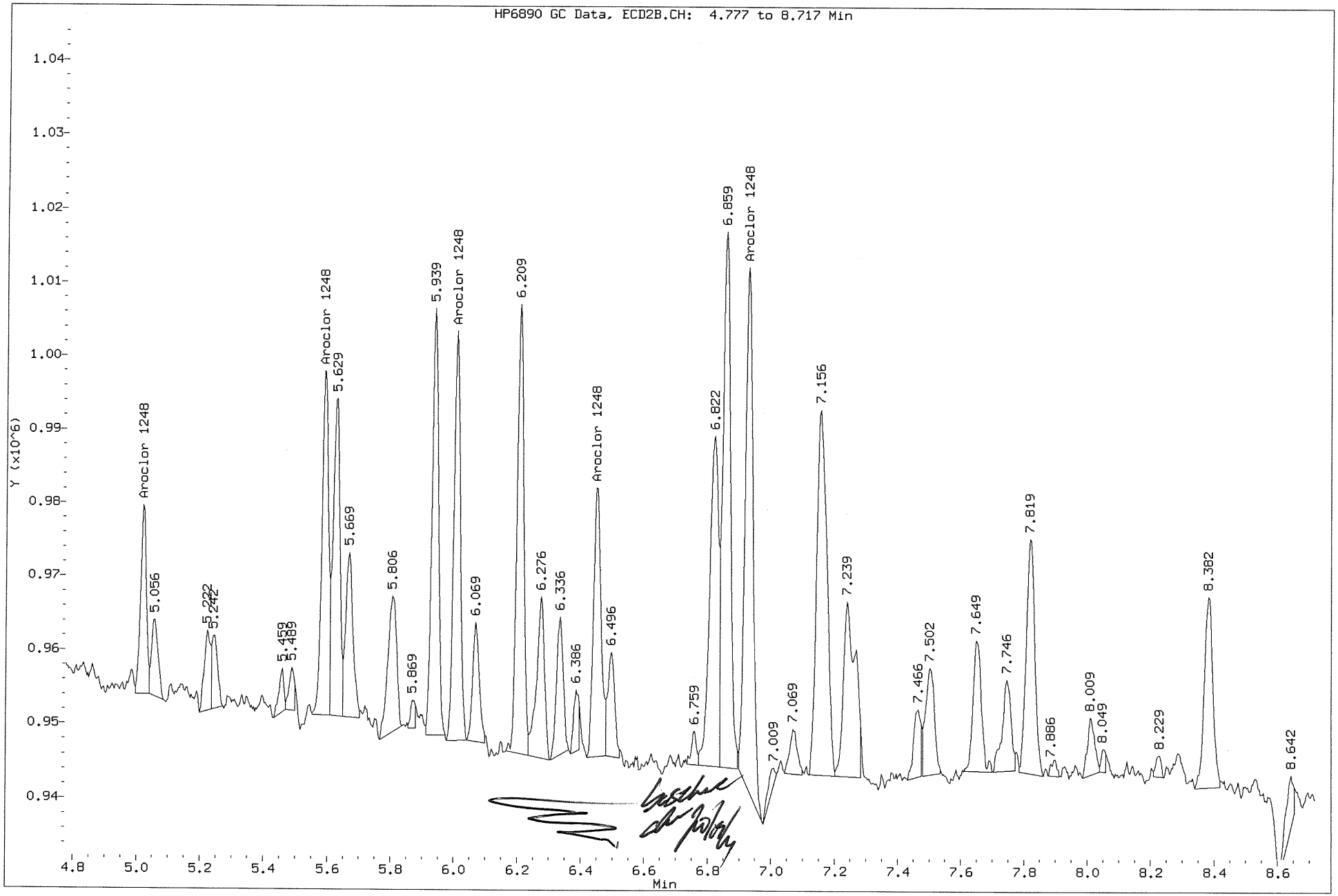
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

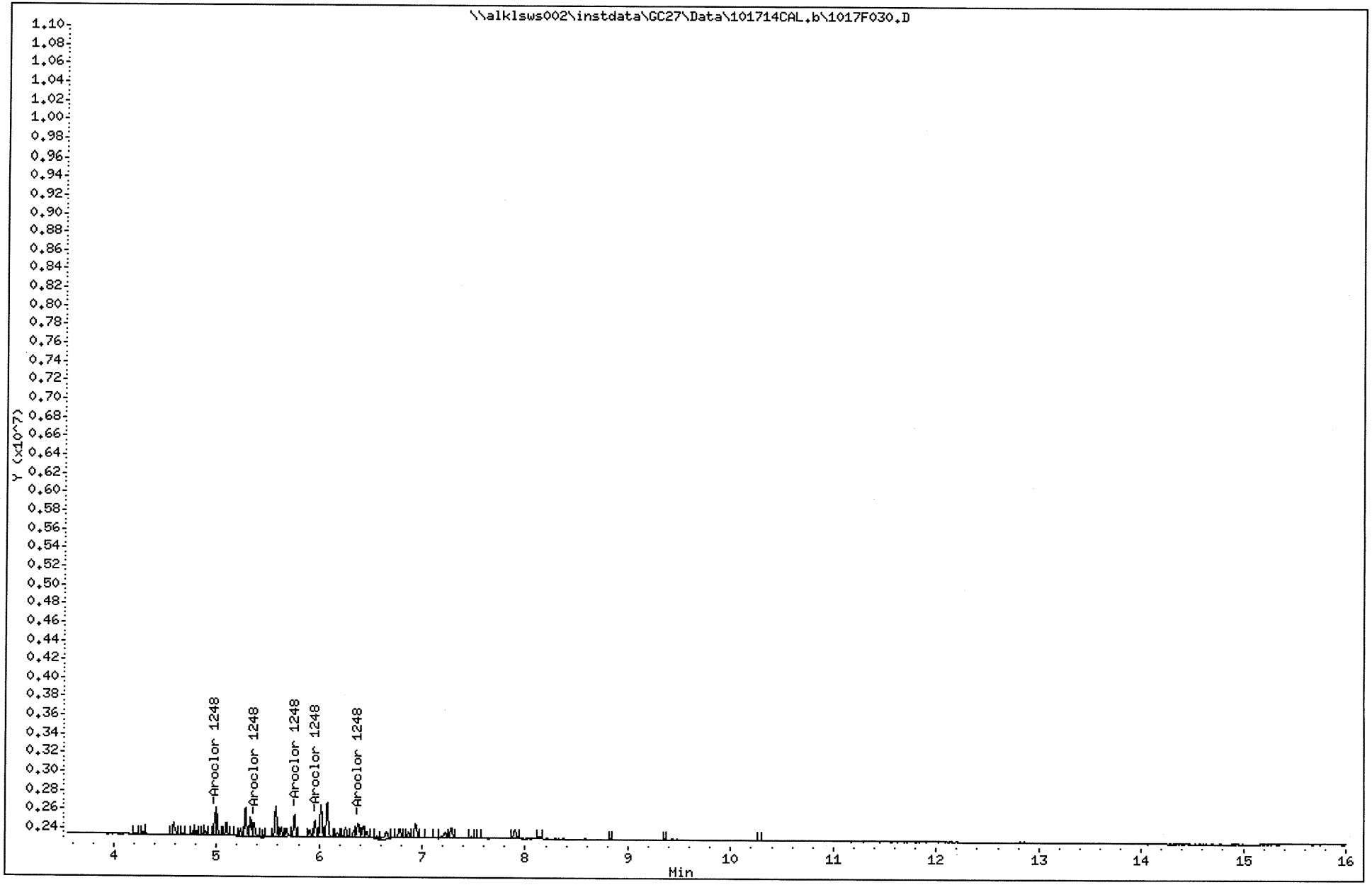
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



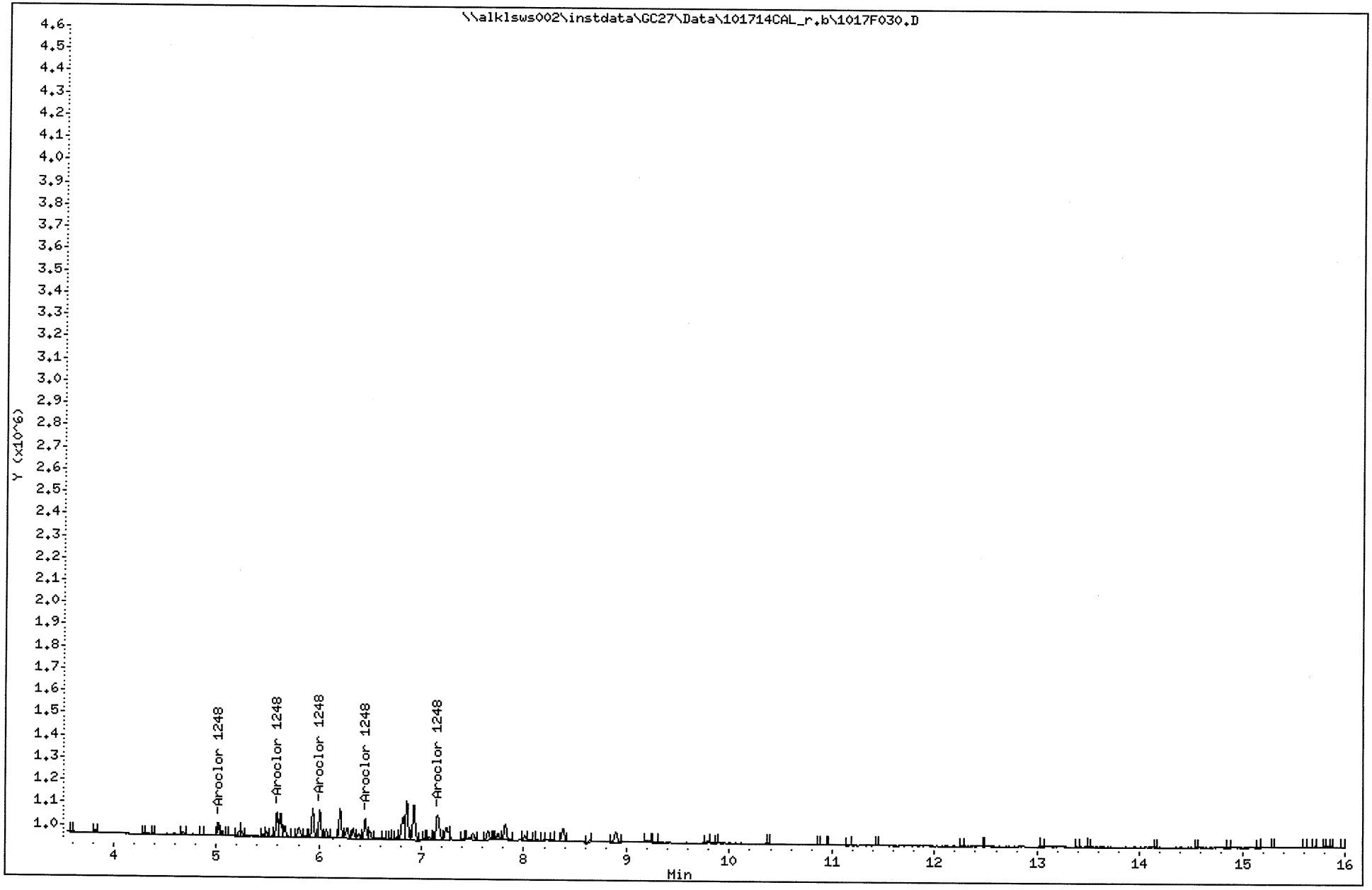
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

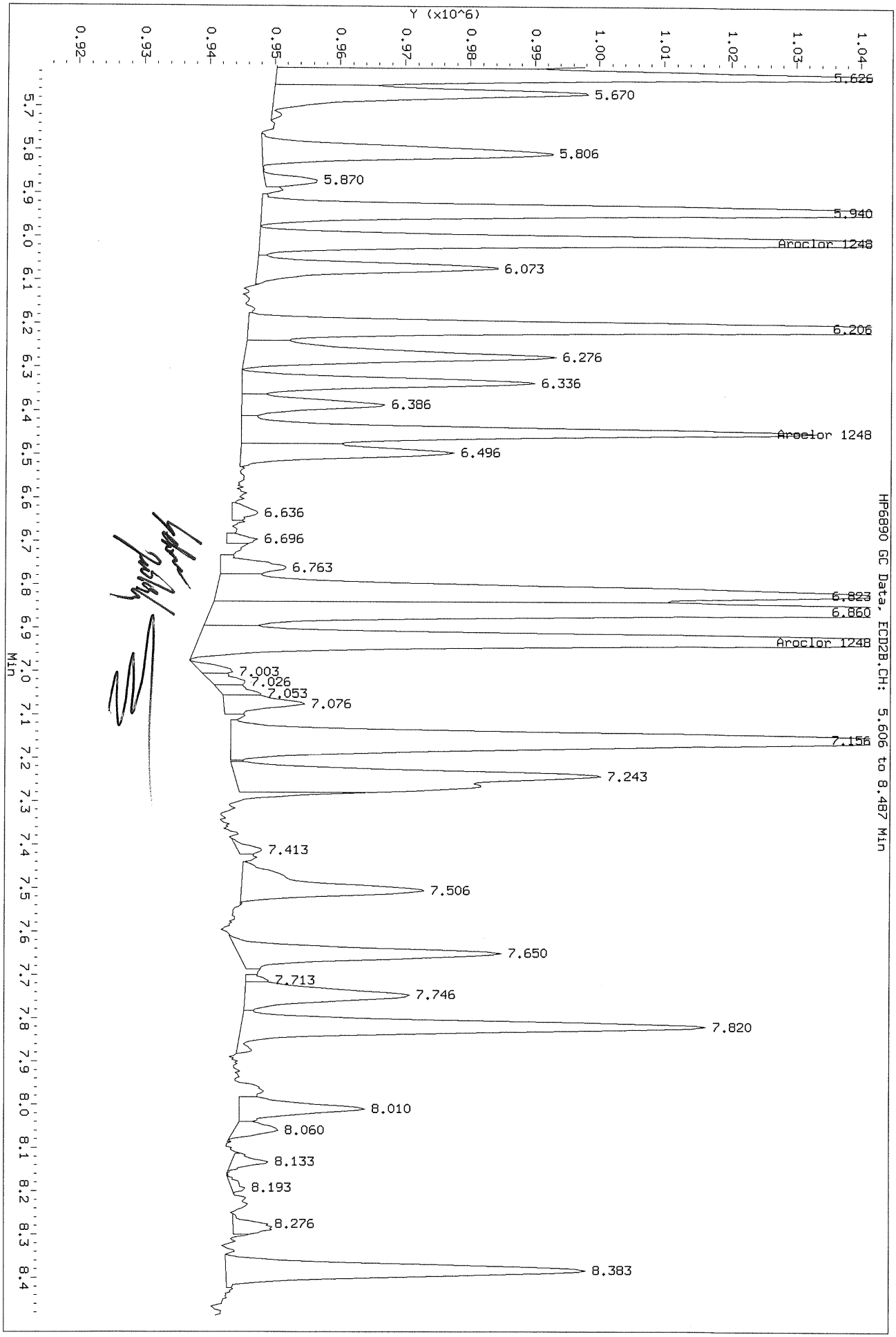
Instrument: GC27.i

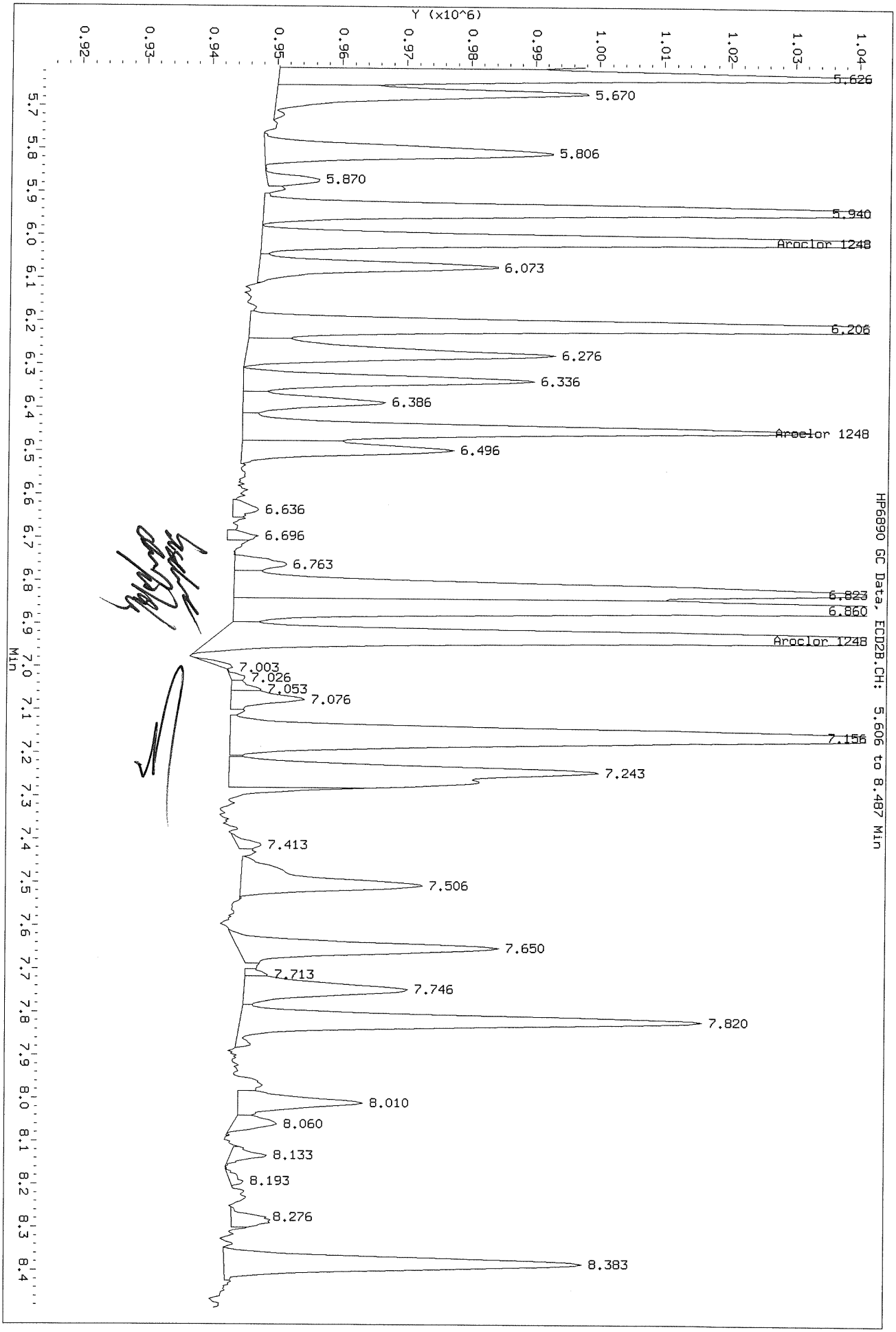
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383


Data File: \\alklswS002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

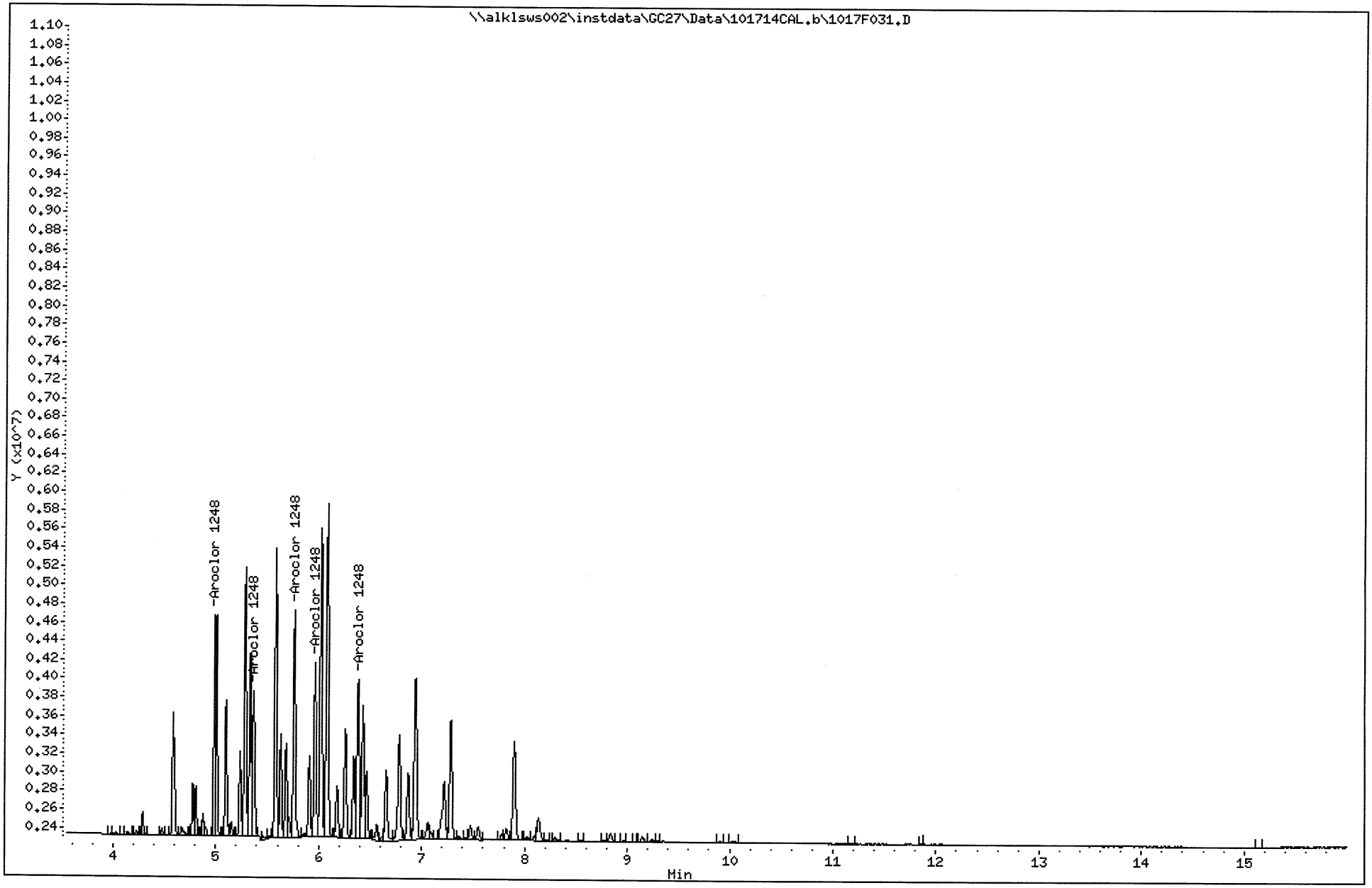
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JHSmith

Column phase: DB-35MS

Column diameter: 0.32



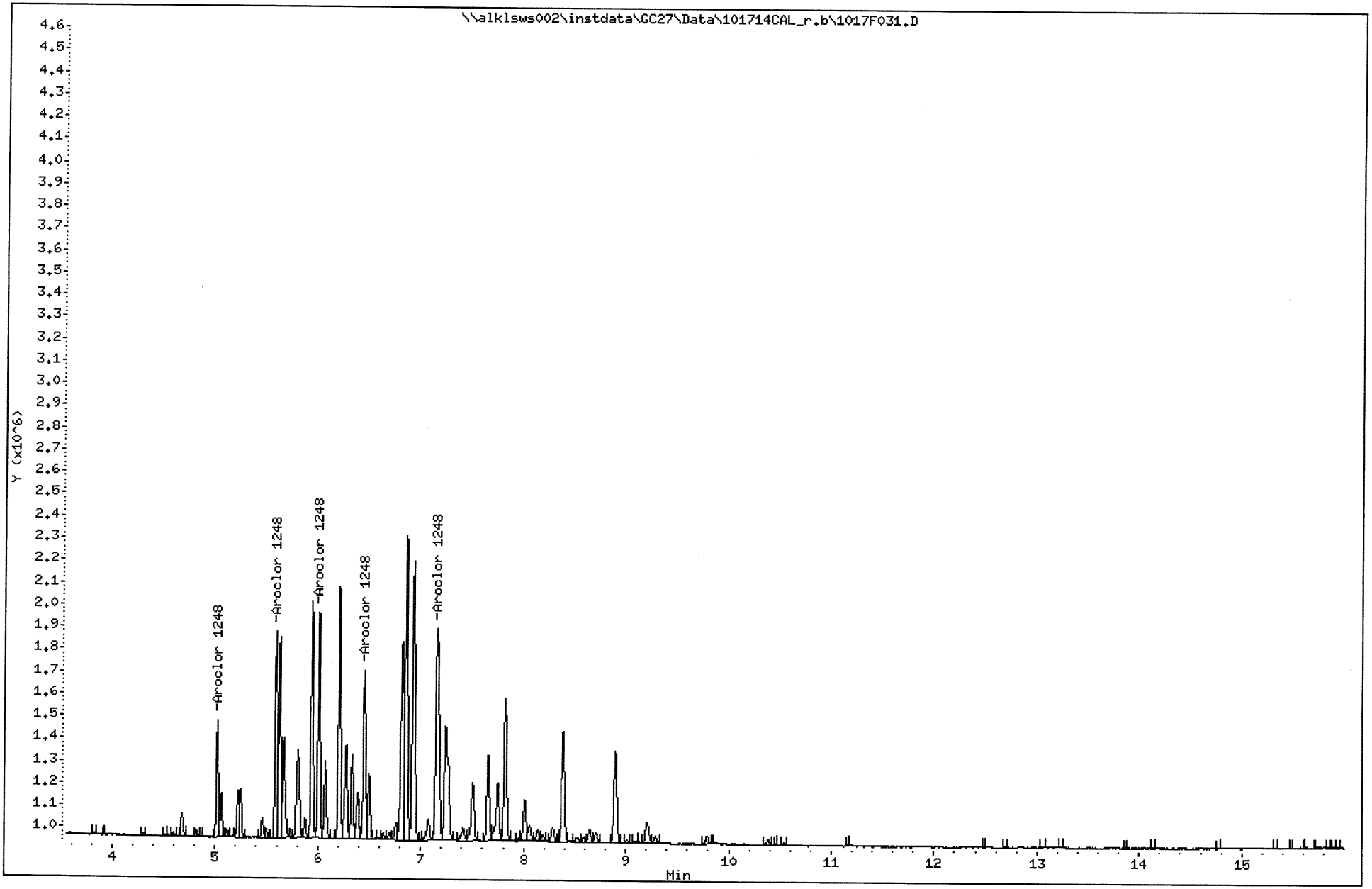
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

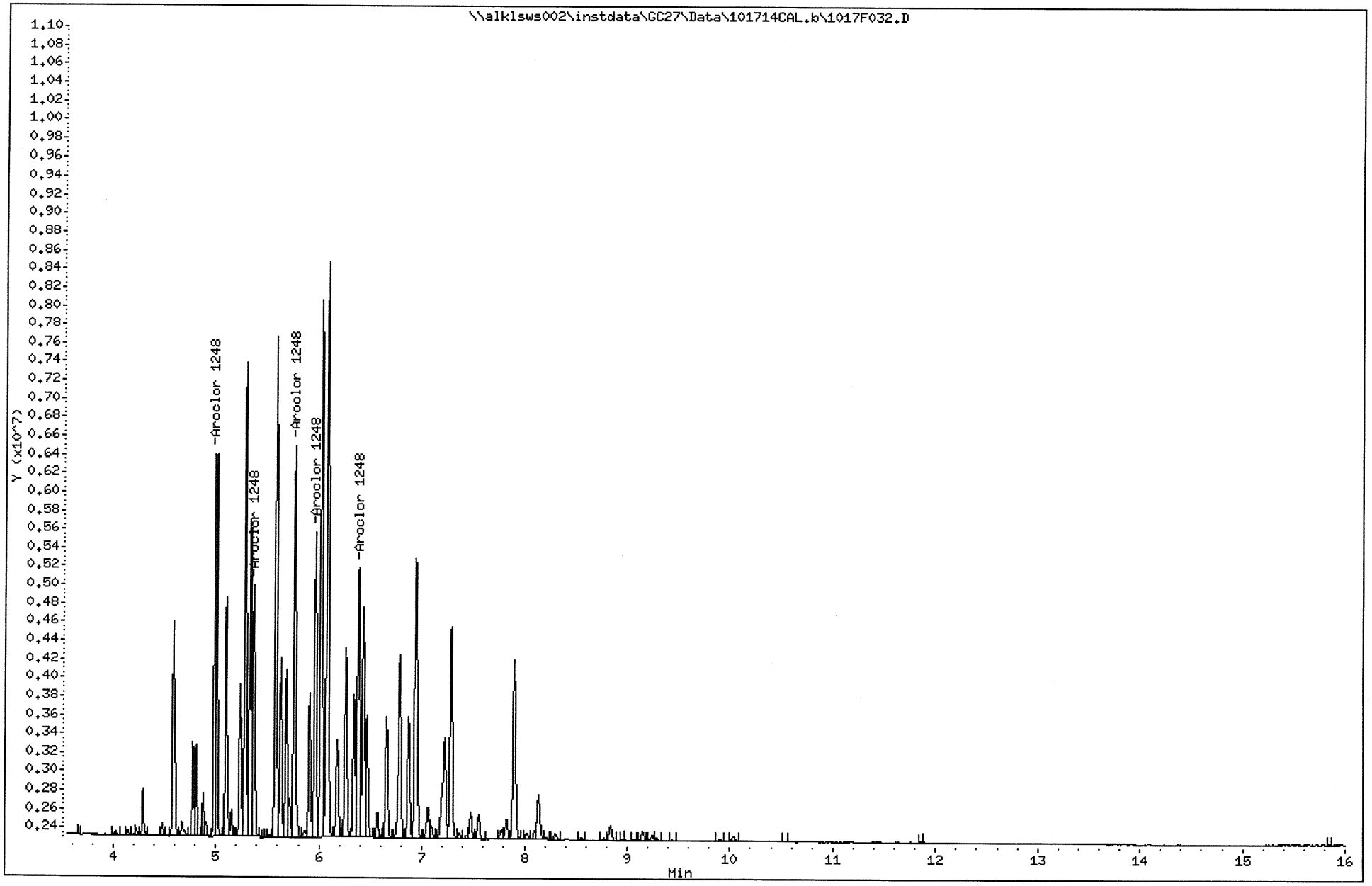
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



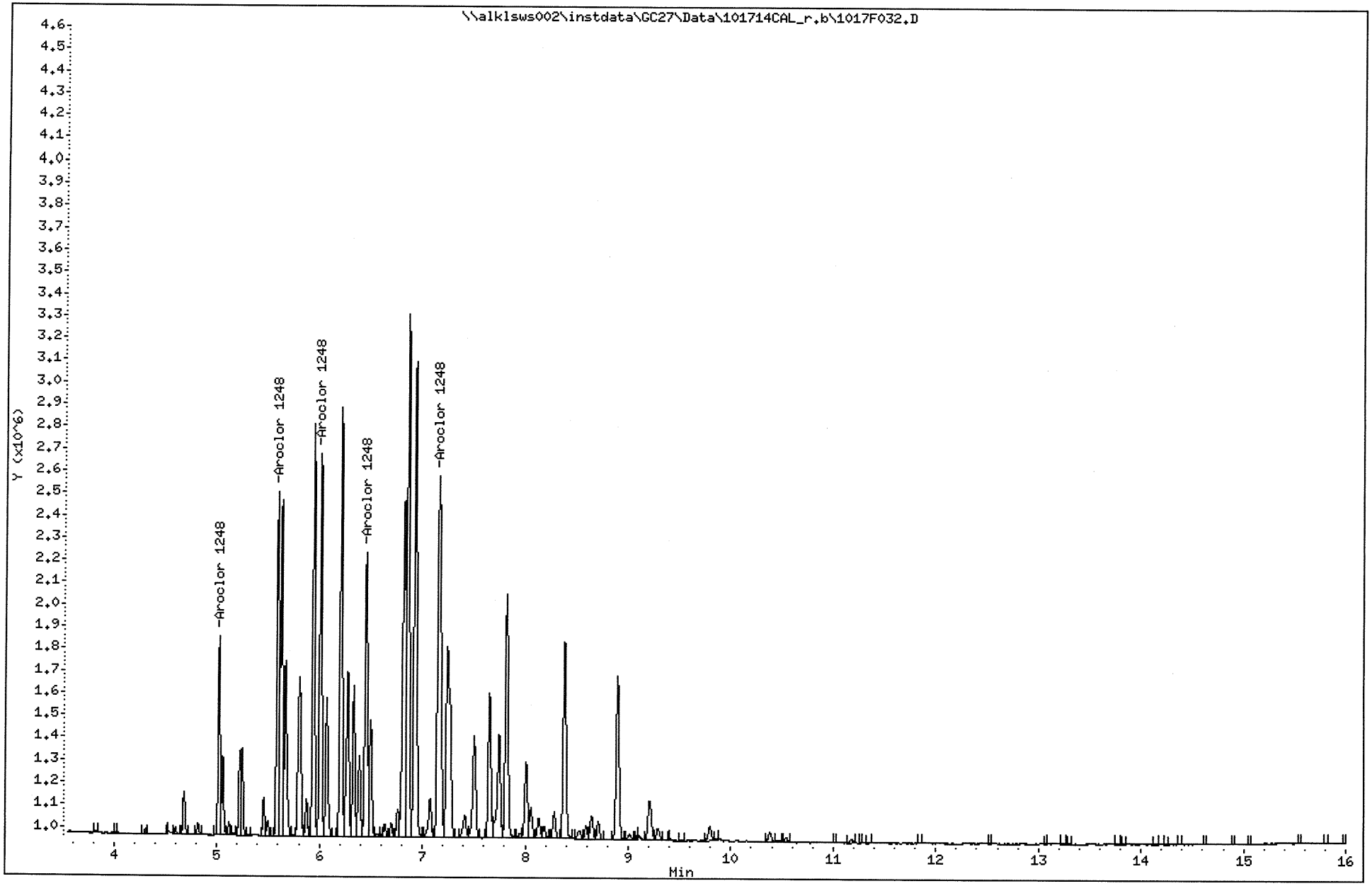
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

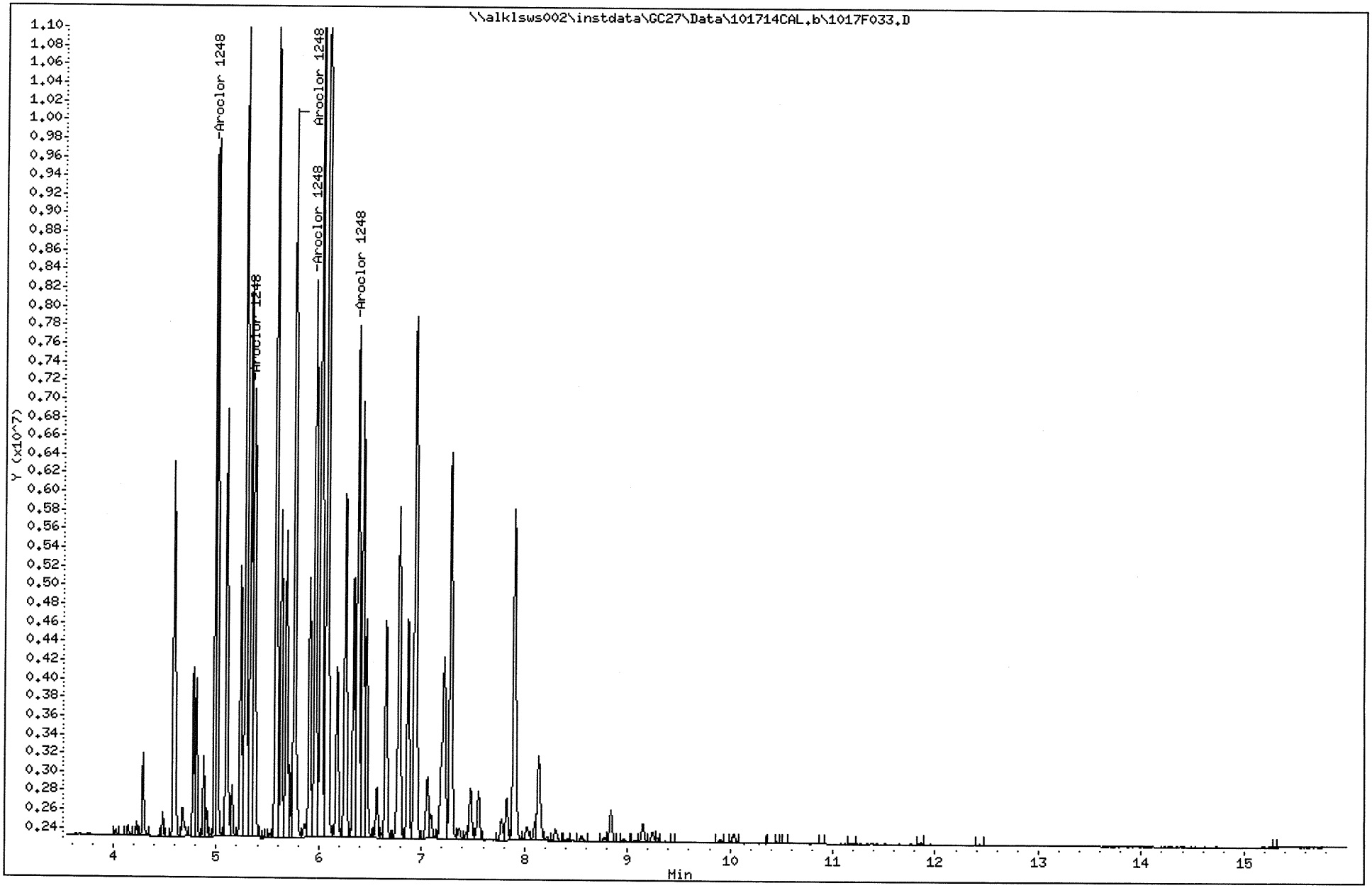
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

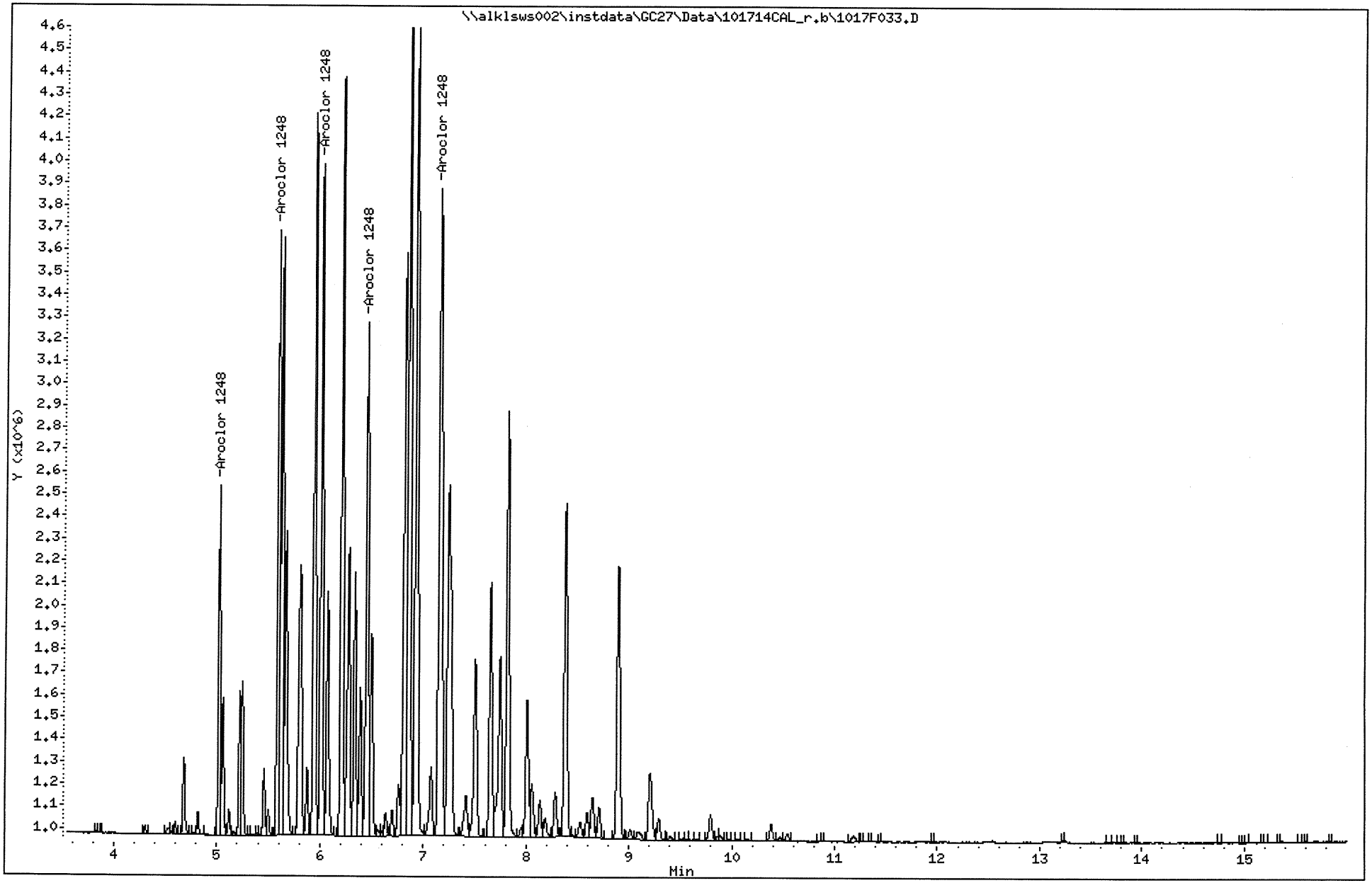


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

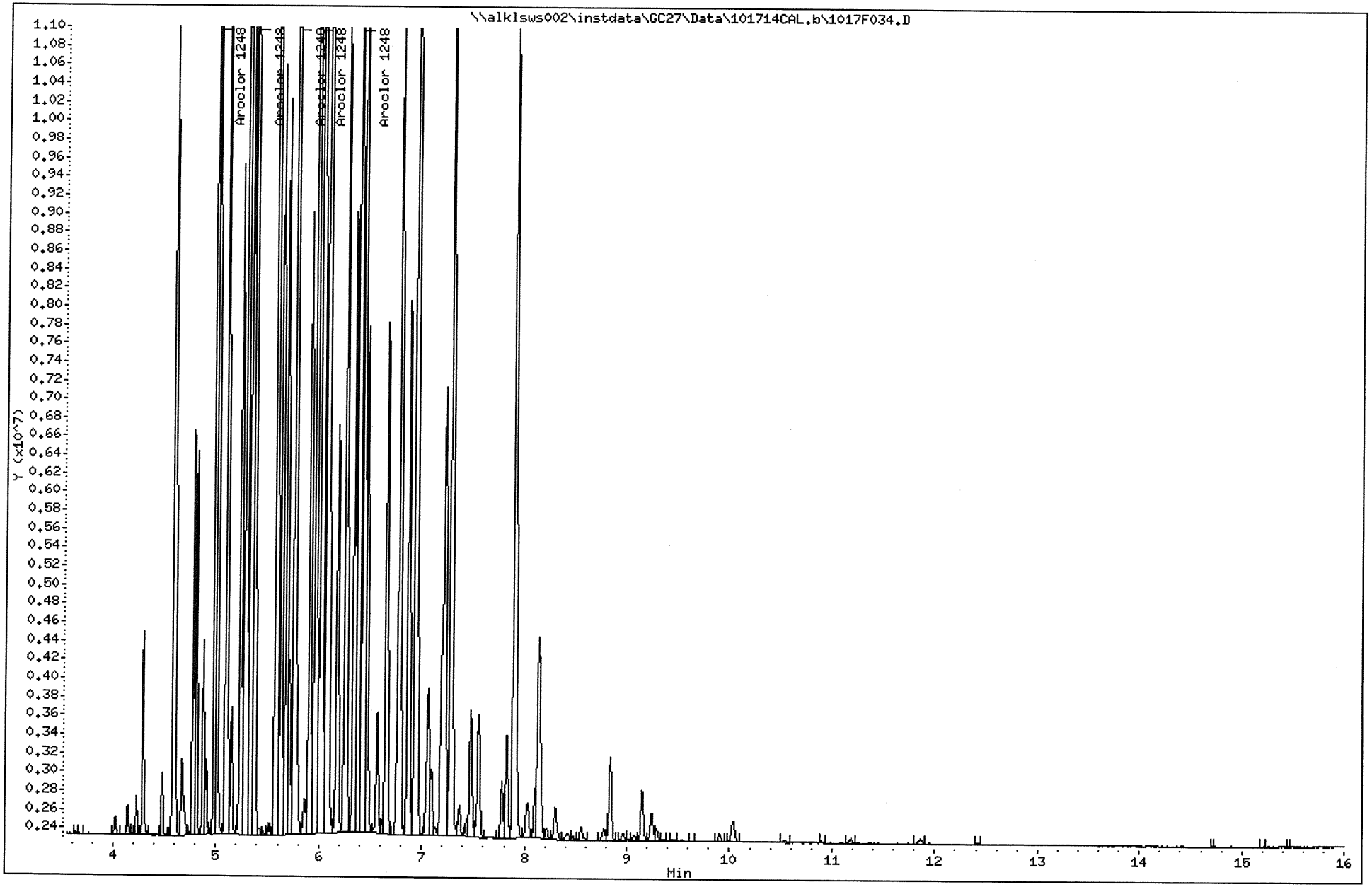
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



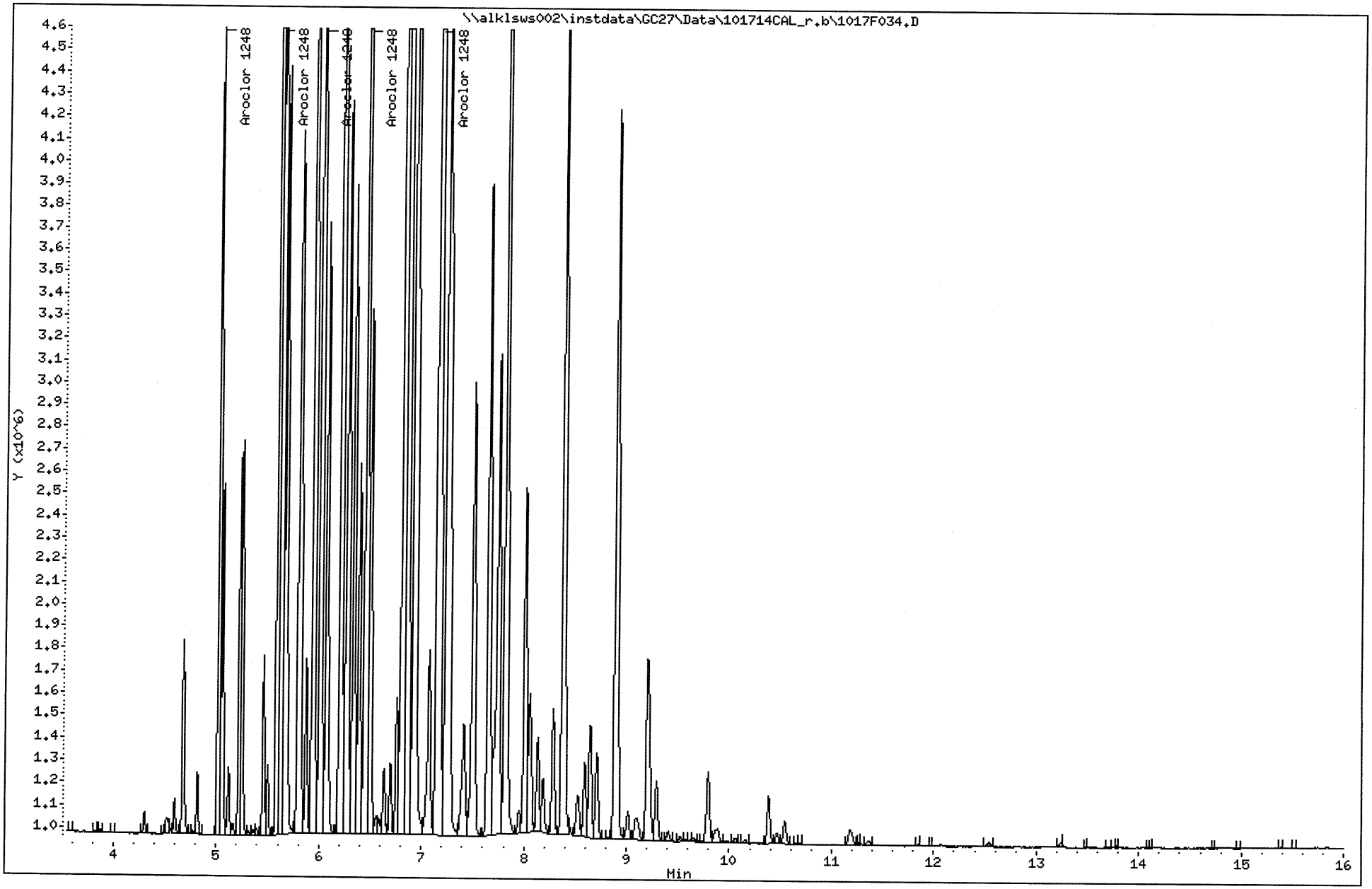
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

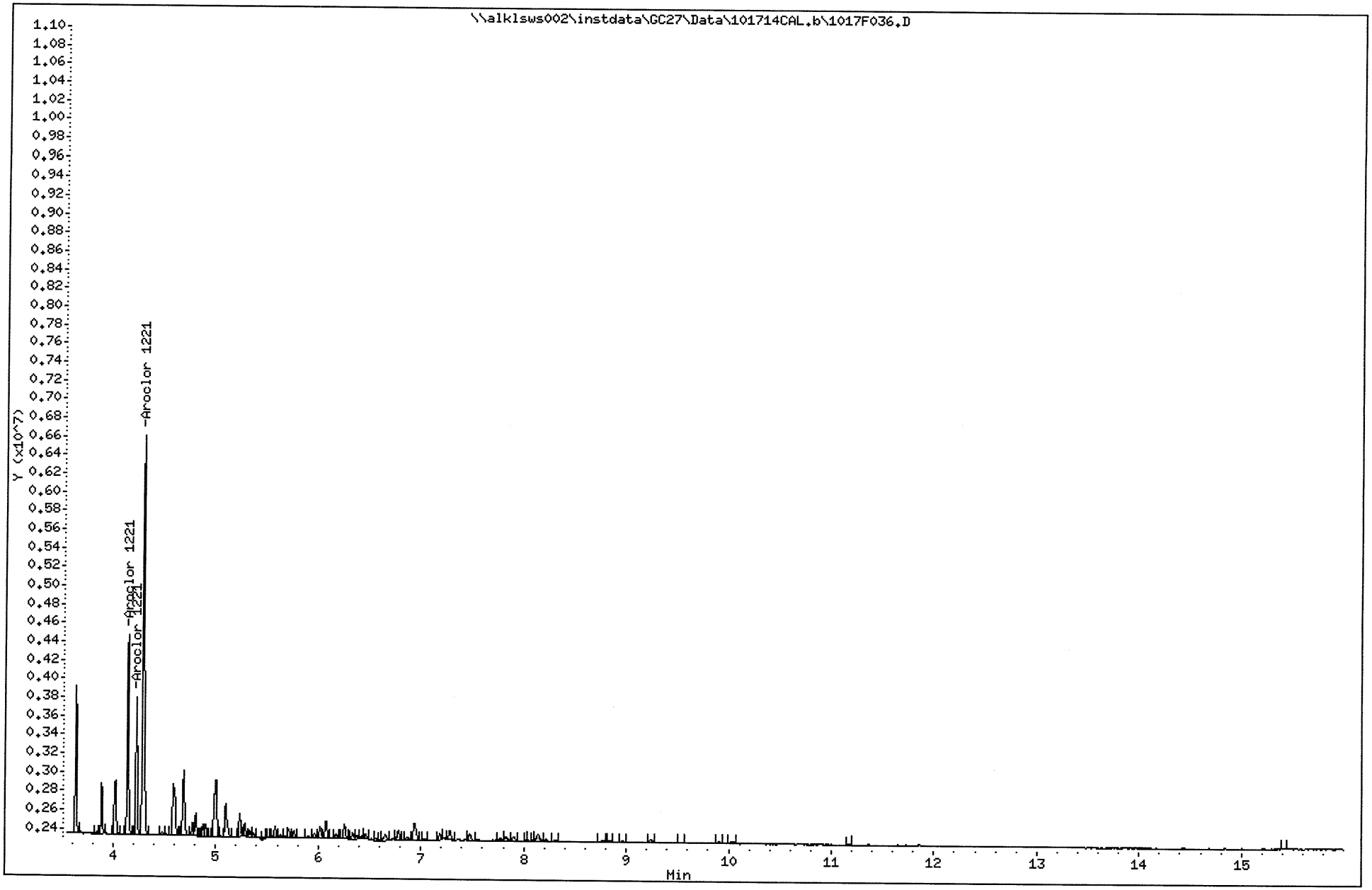
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



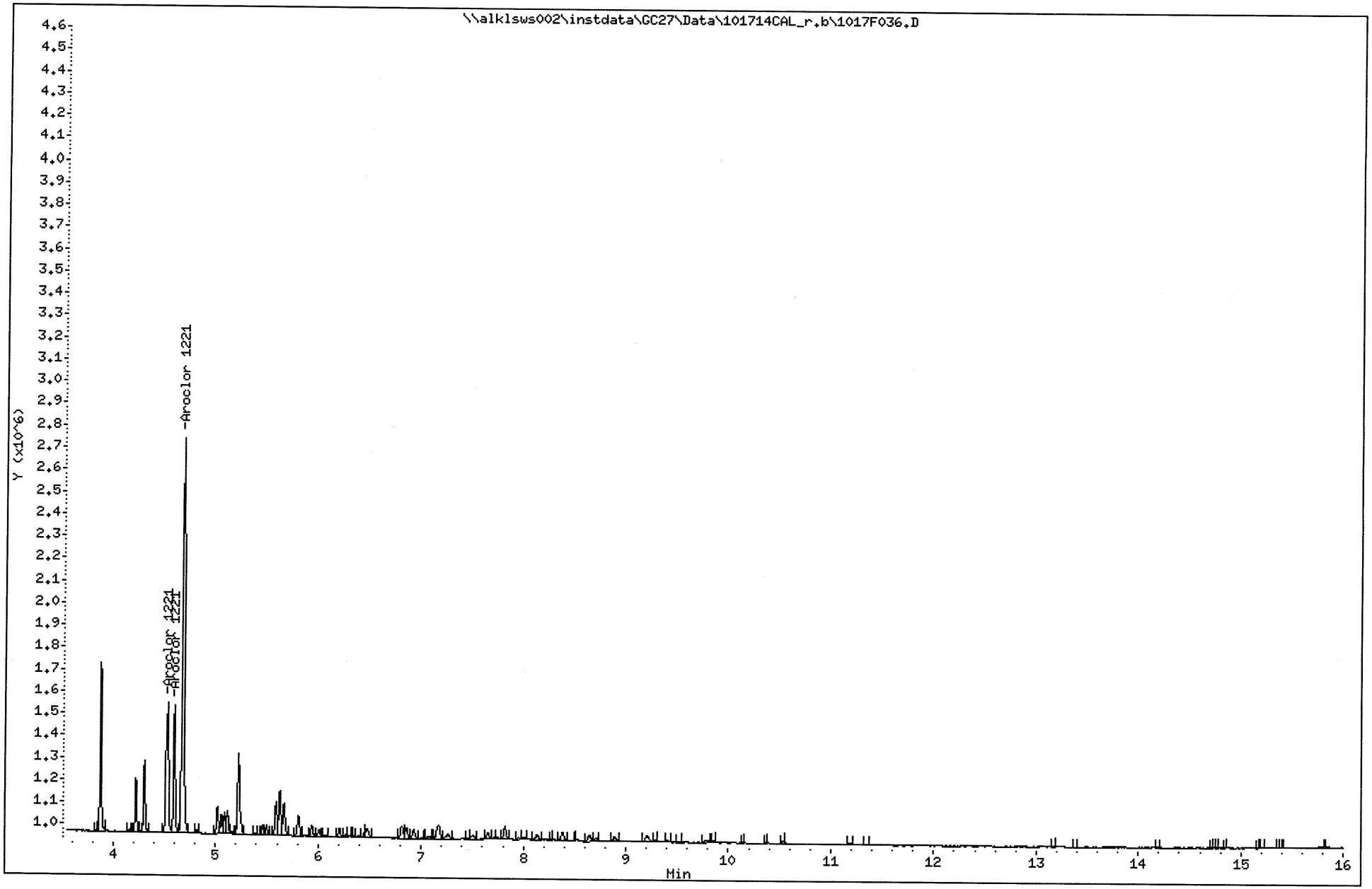
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

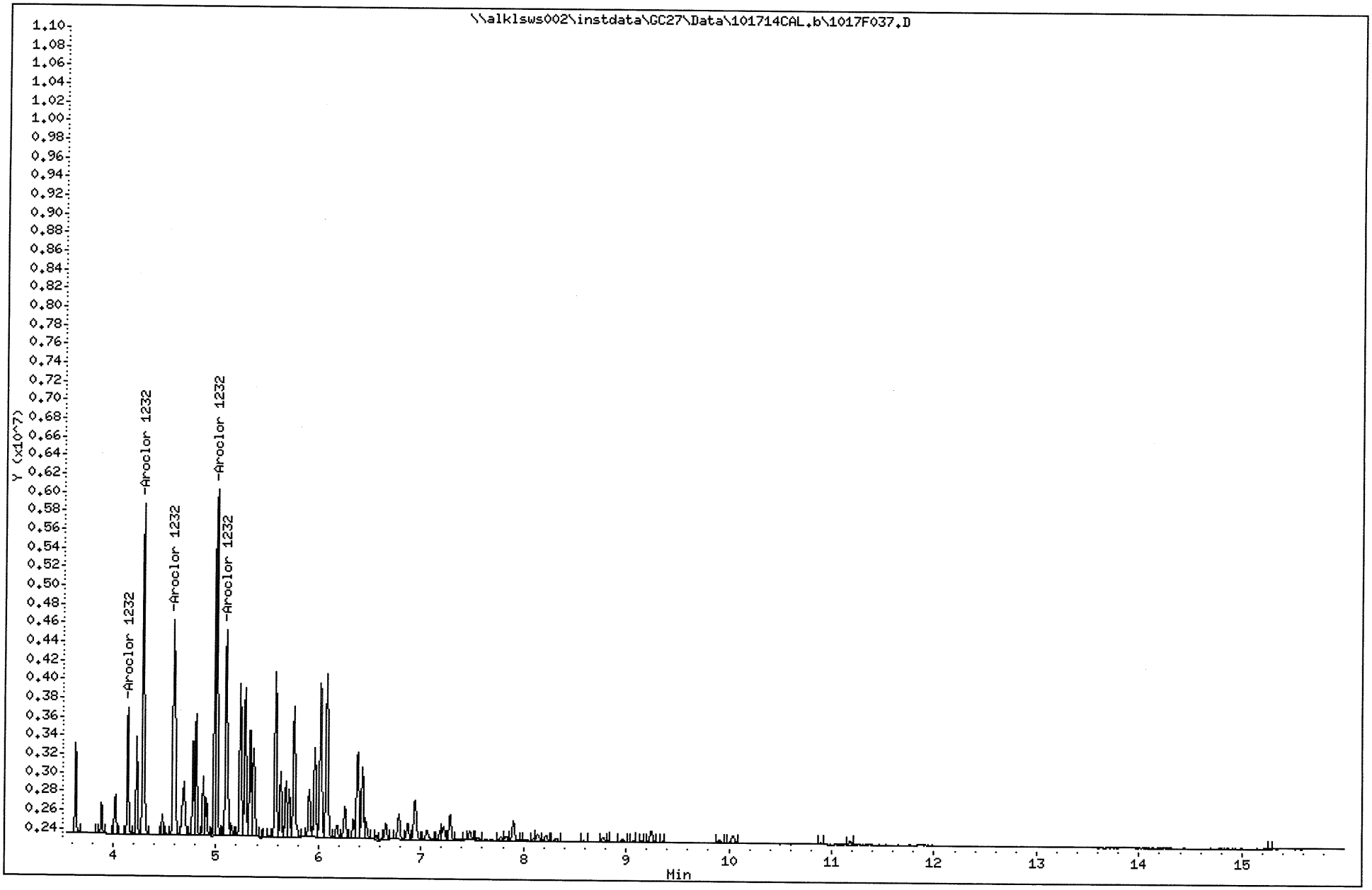
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

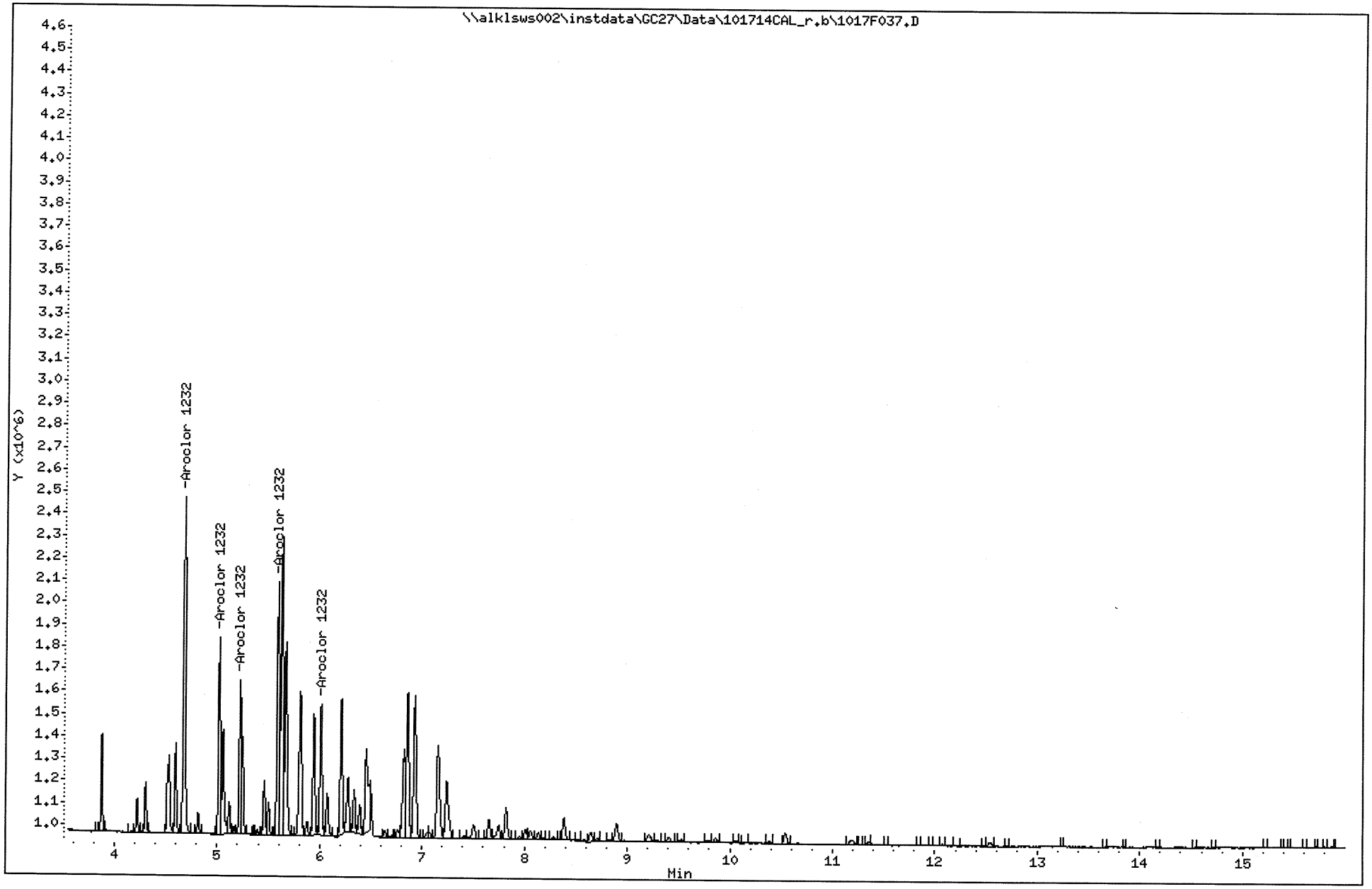


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

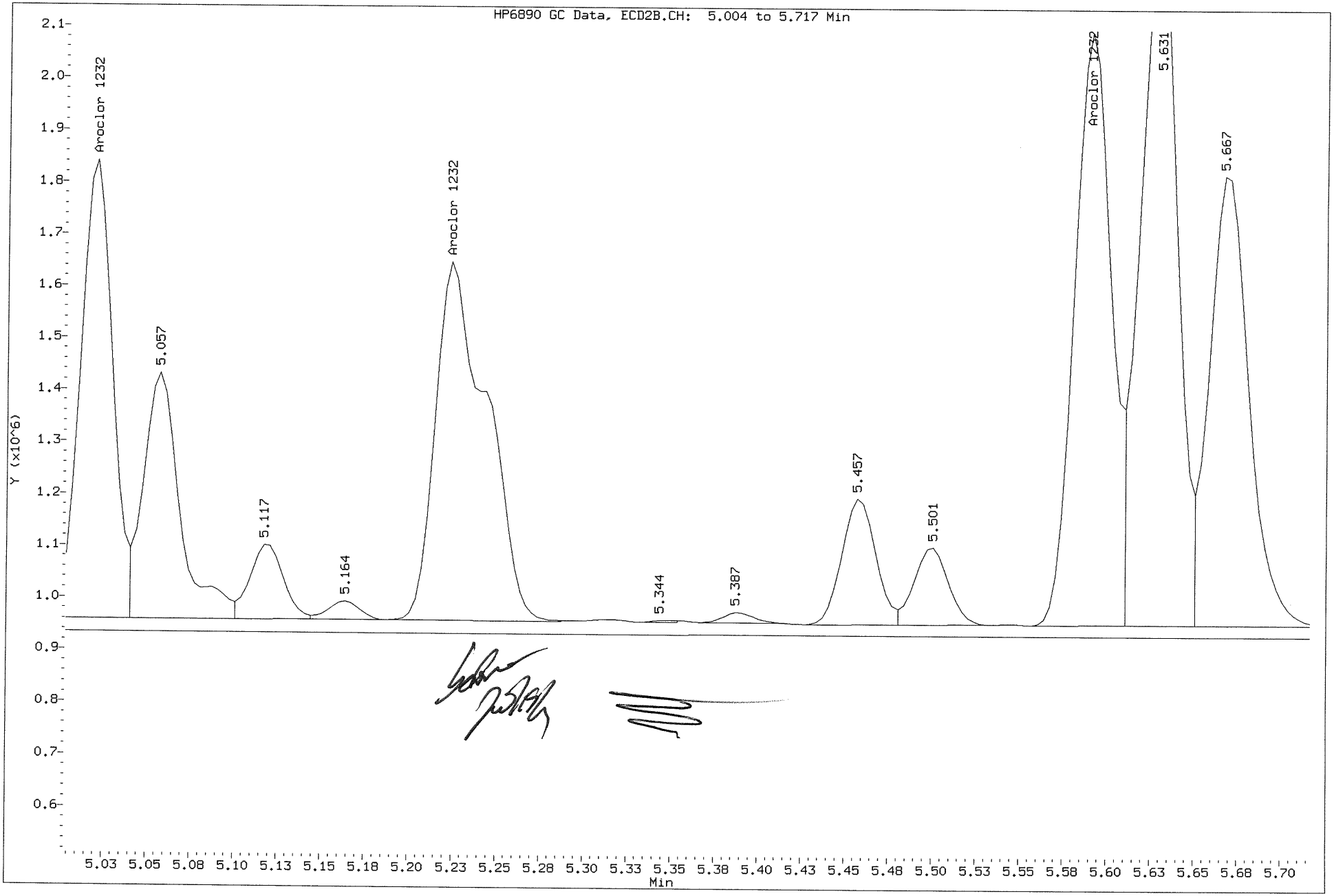
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

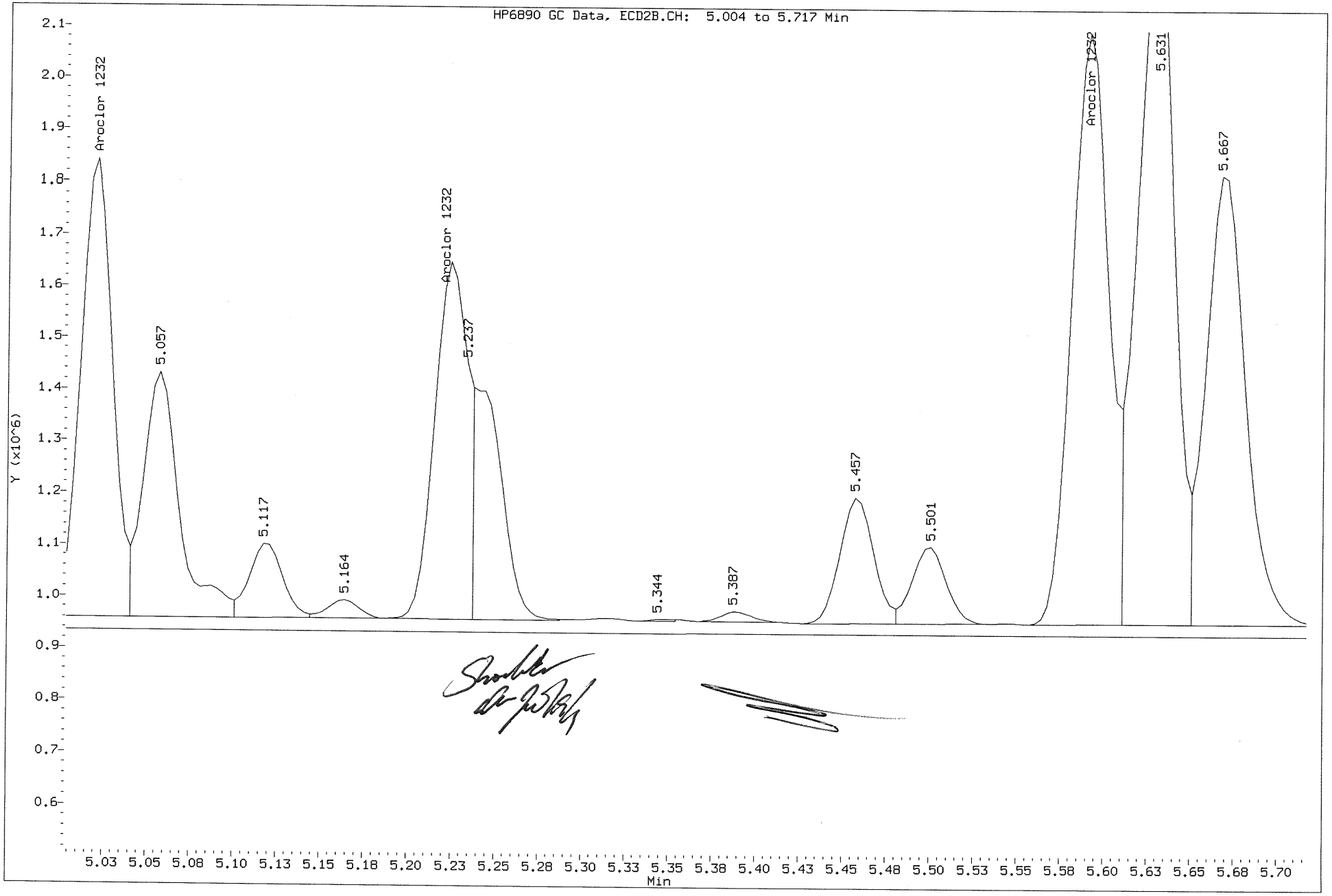
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

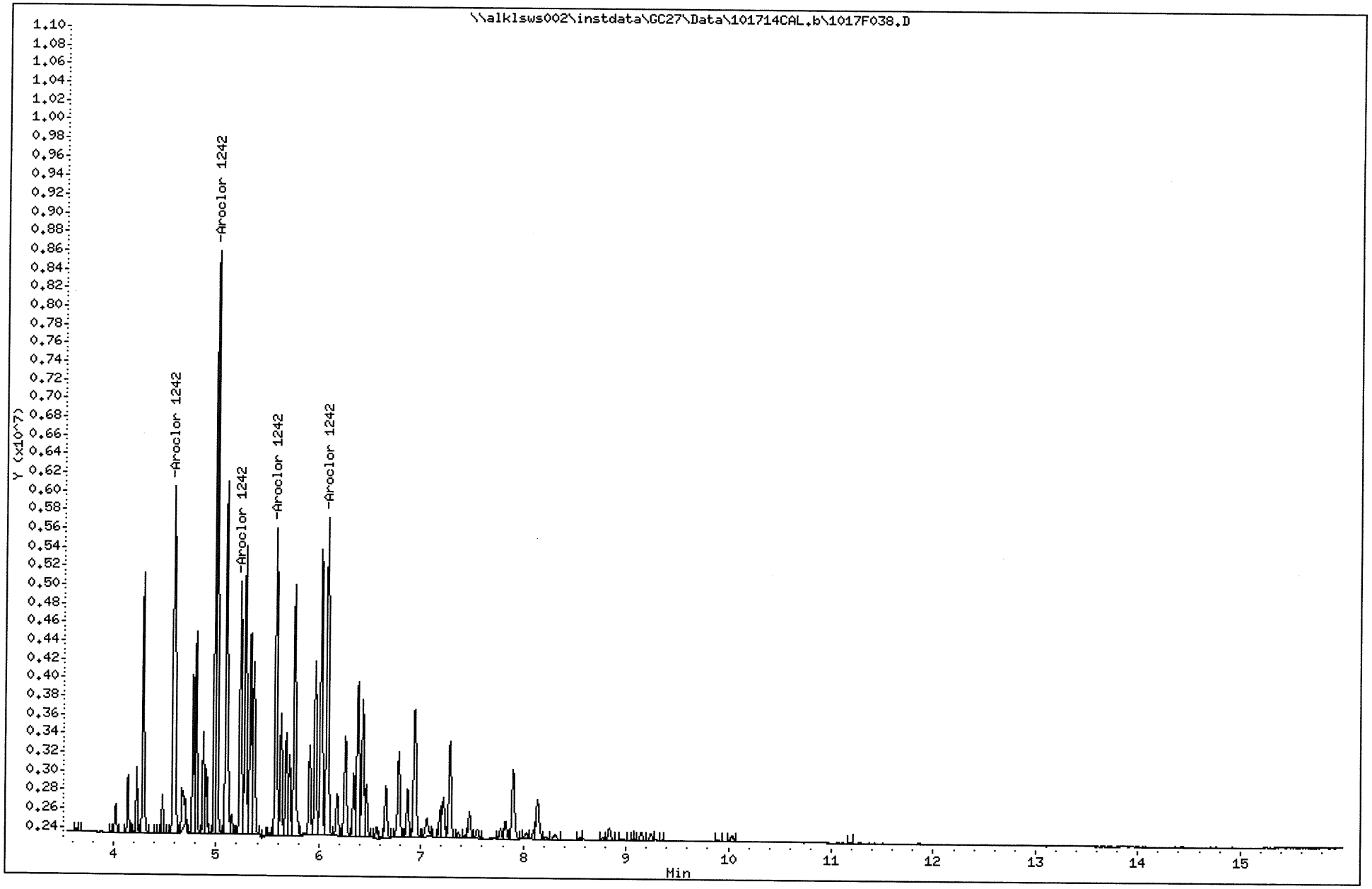
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

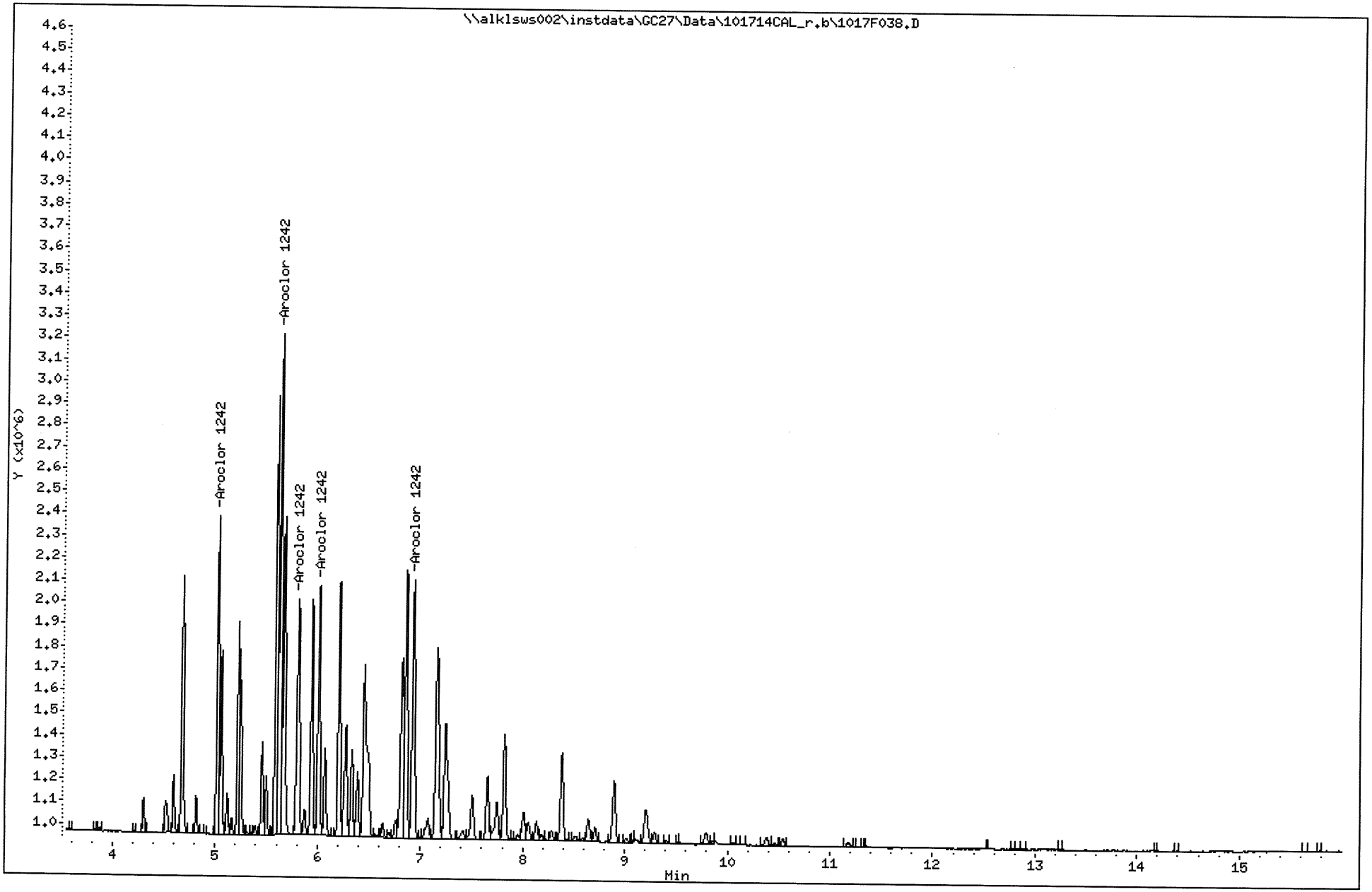


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

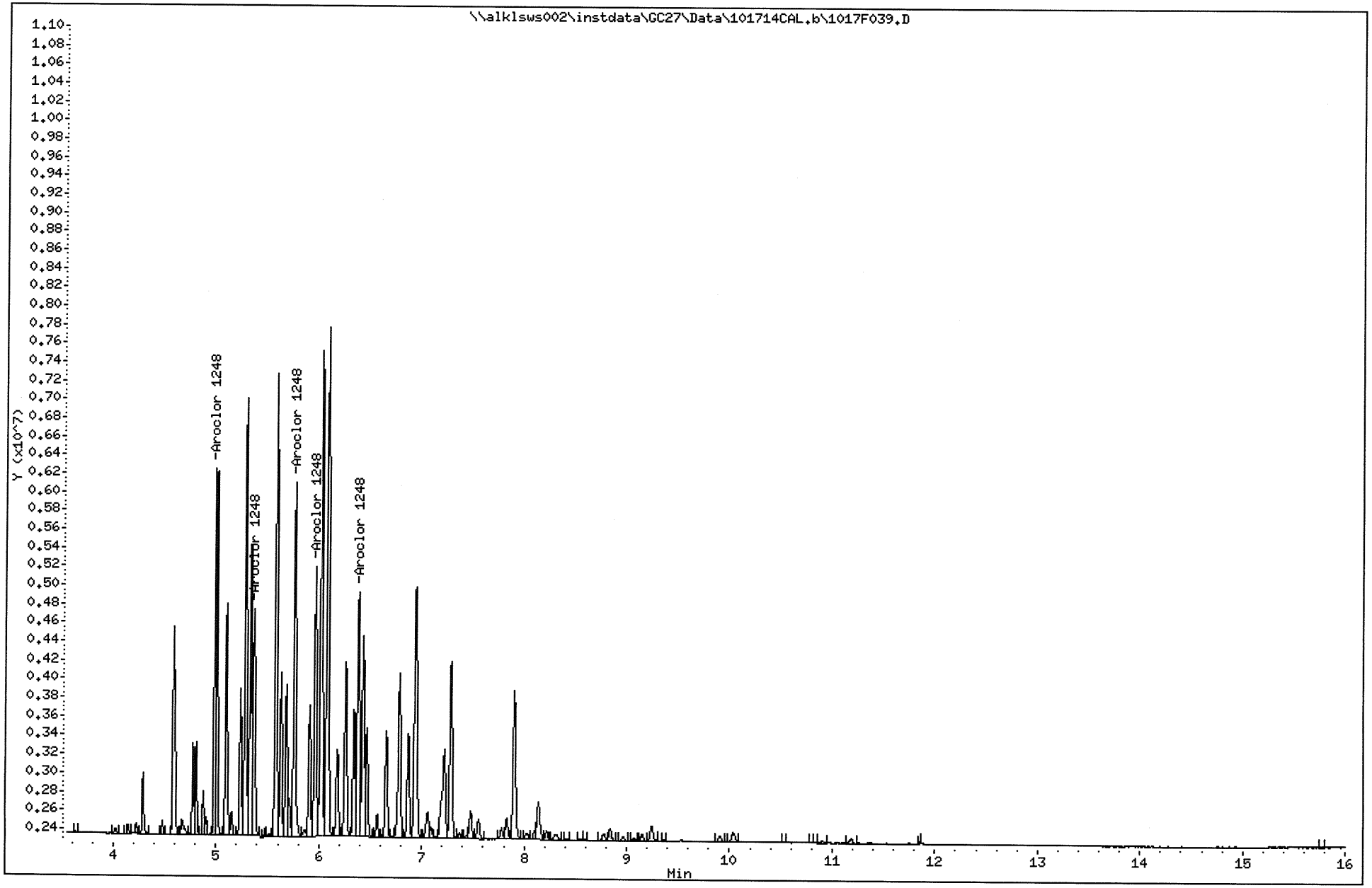
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



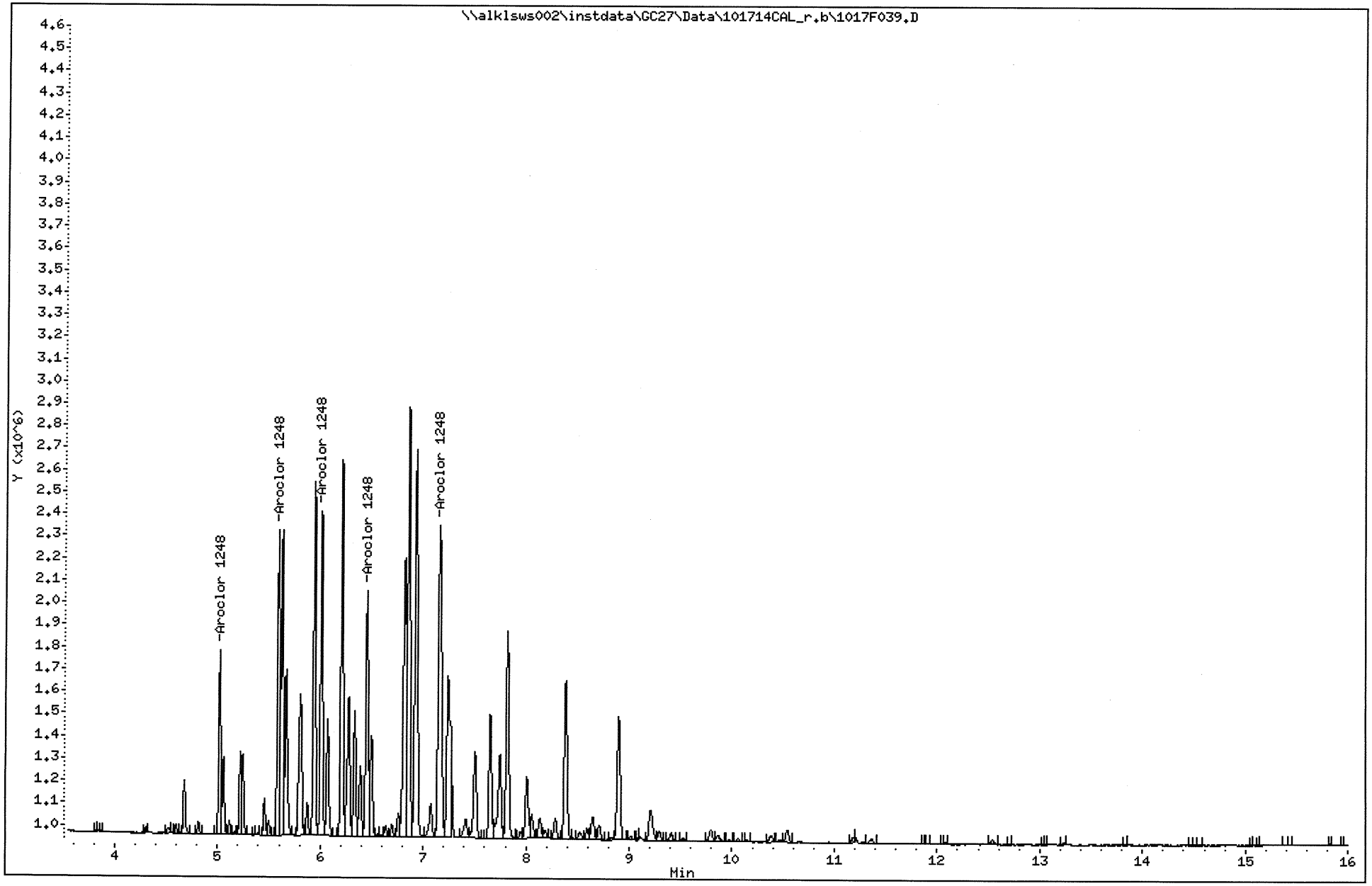
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

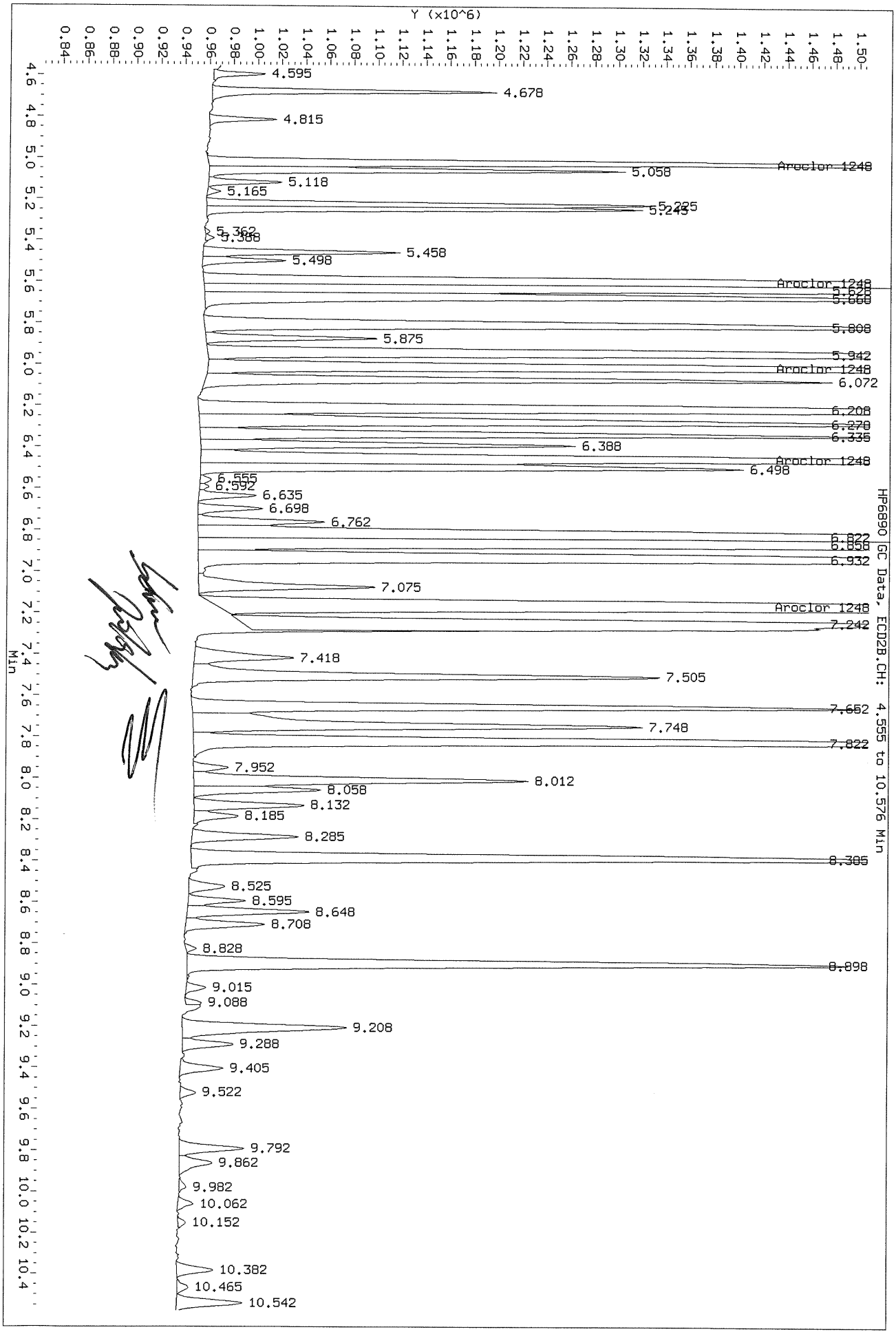
Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
4.595
4.678
4.815
Aroclor 1248
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
Aroclor 1248
5.620
5.660
5.808
5.875
5.942
Aroclor 1248
6.072
6.208
6.270
6.335
6.388
Aroclor 1248
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
Aroclor 1248
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
8.385
8.525
8.595
8.648
8.708
8.828
8.898
9.015
9.088
9.208
9.288
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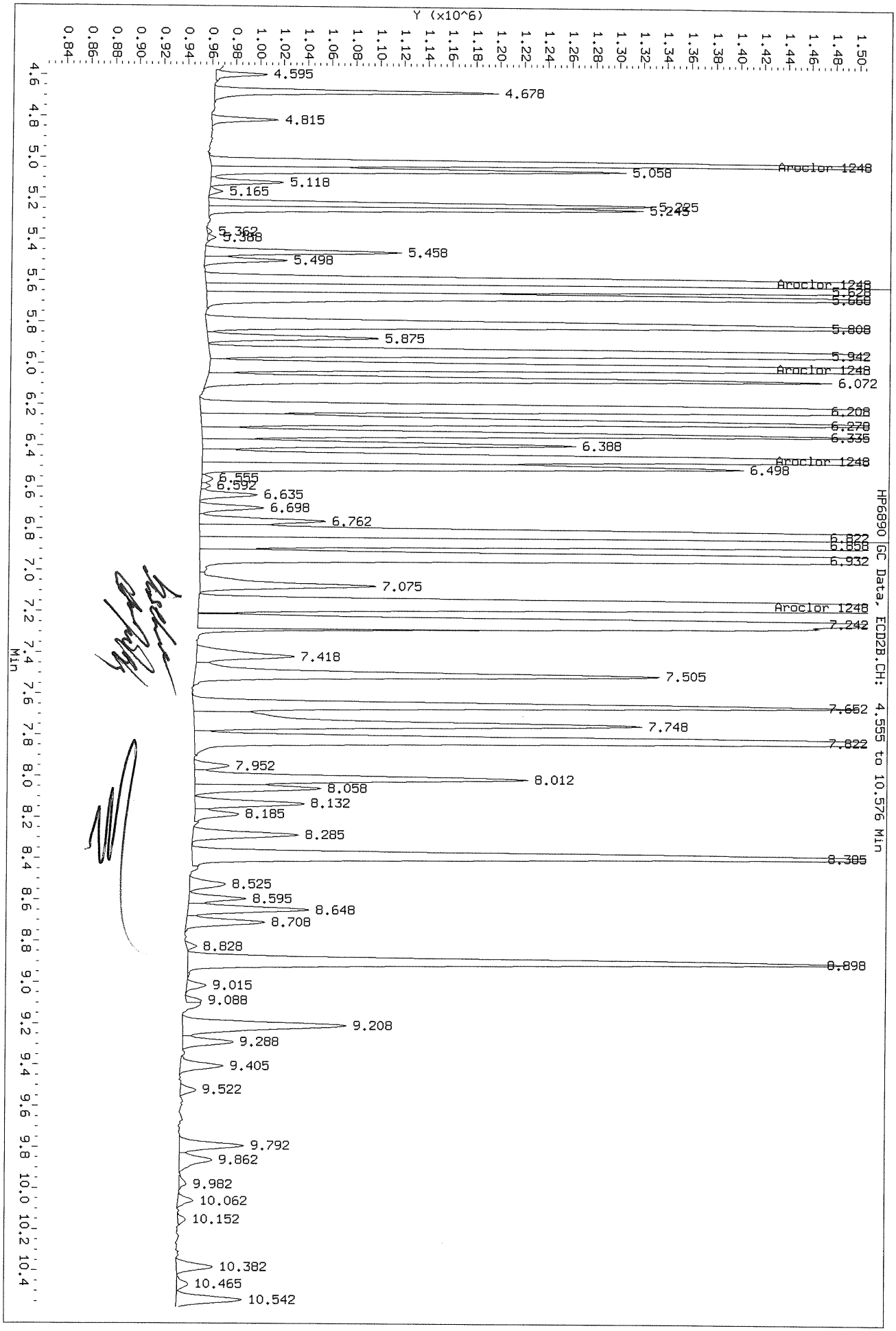
9.522
9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
6.278
6.335
6.388
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.850
6.932
7.075
7.242
7.418
7.505
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7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
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8.595
8.648
8.708
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9.088
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9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

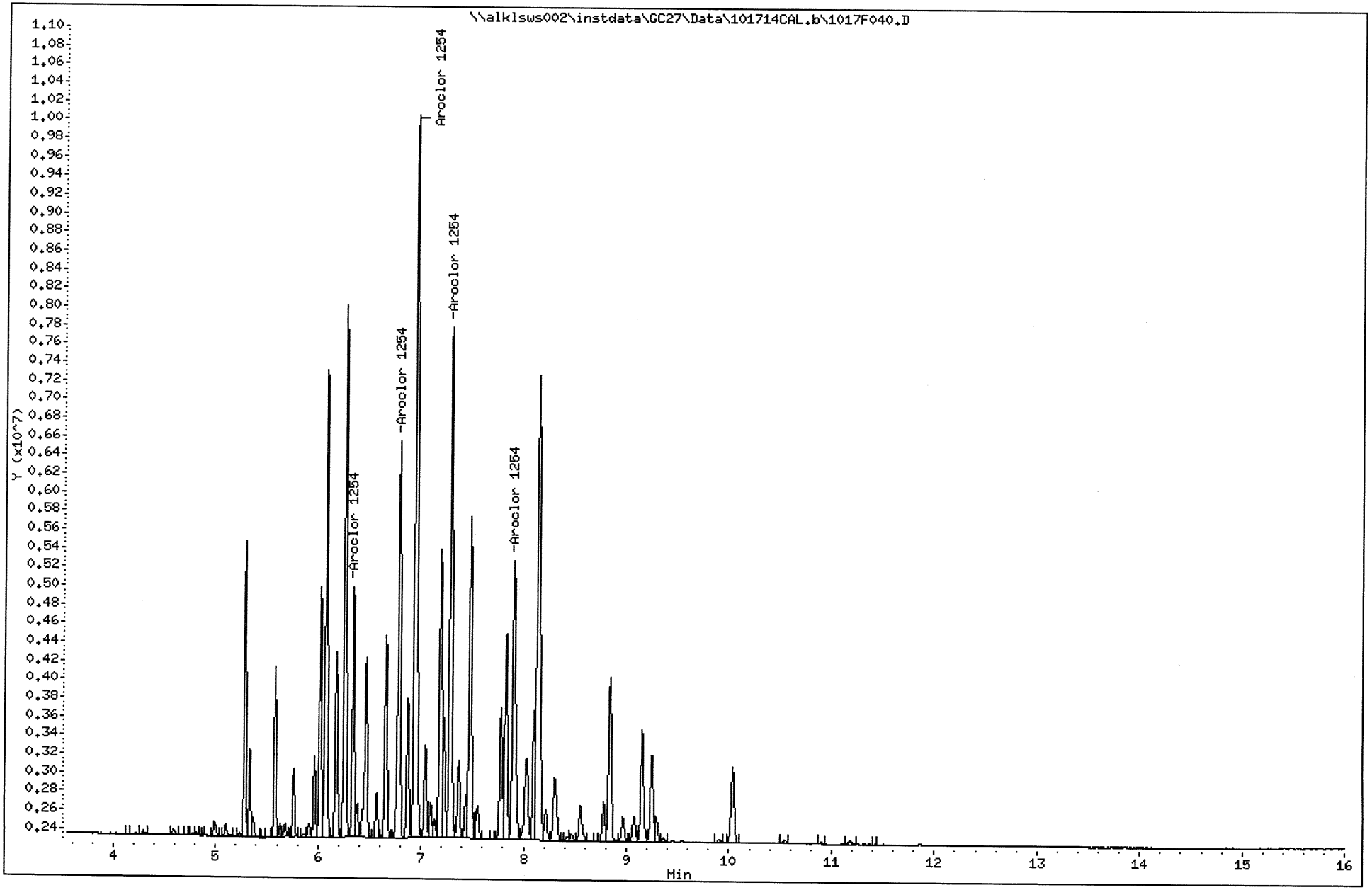
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



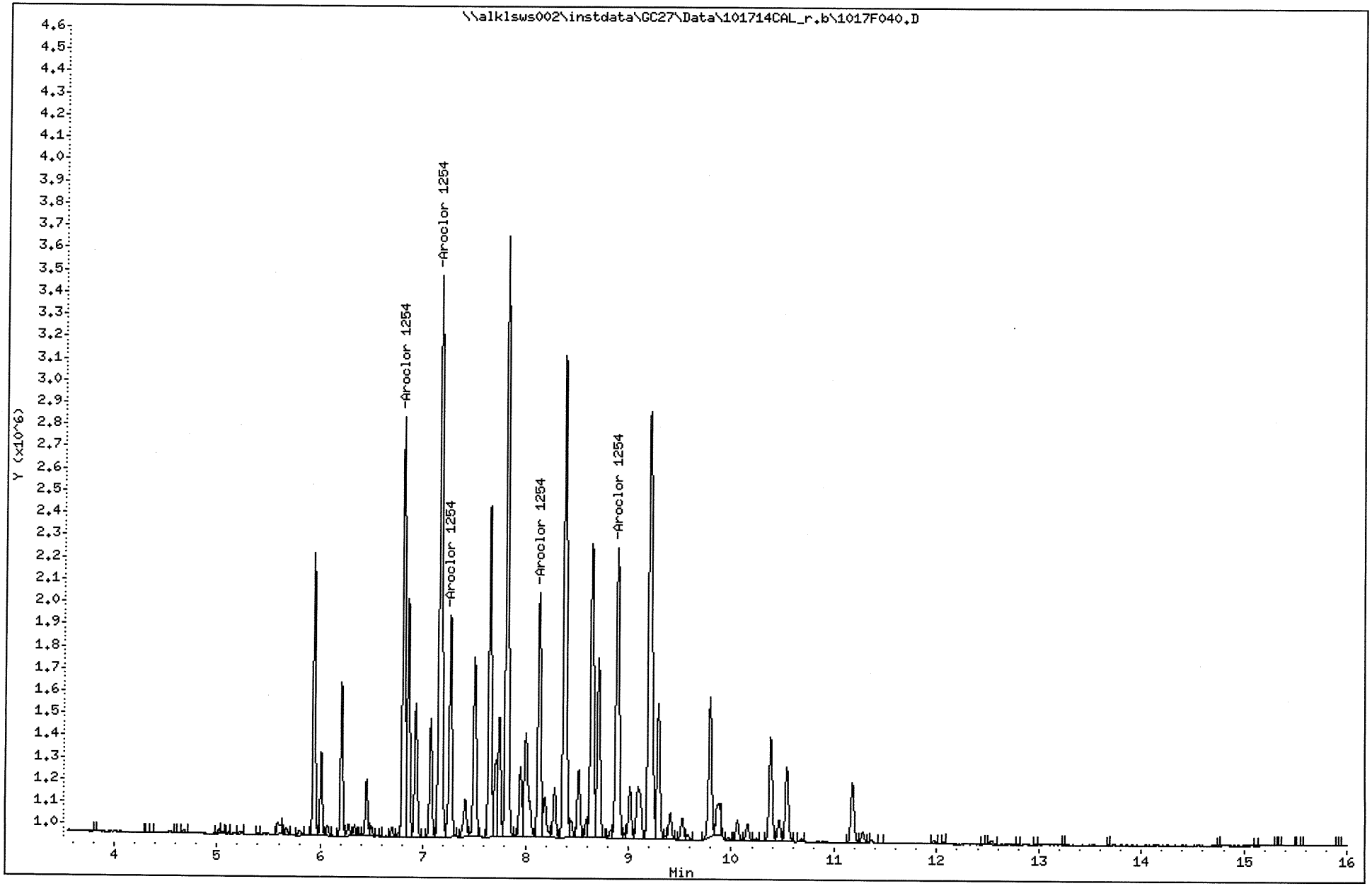
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

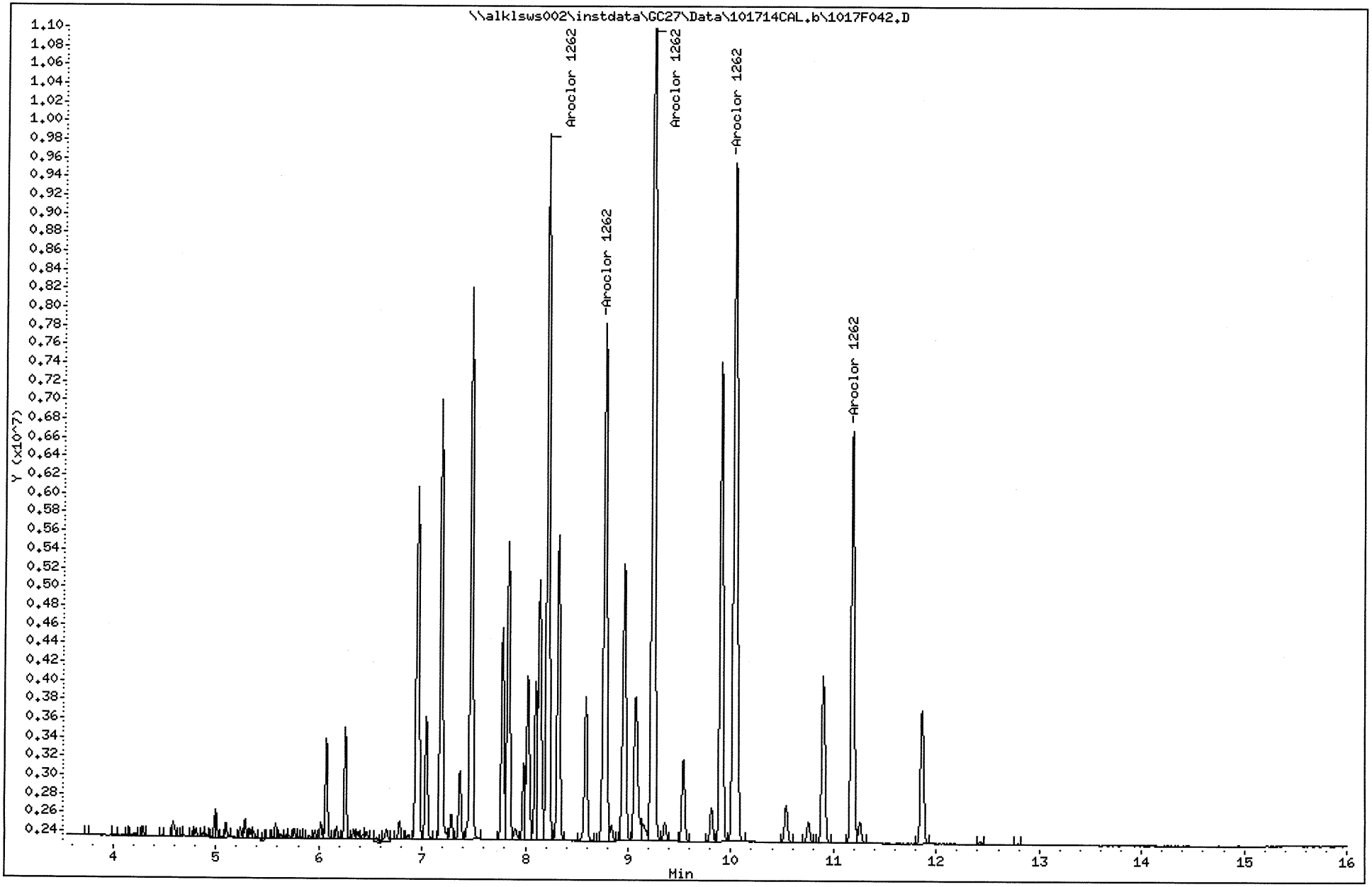
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



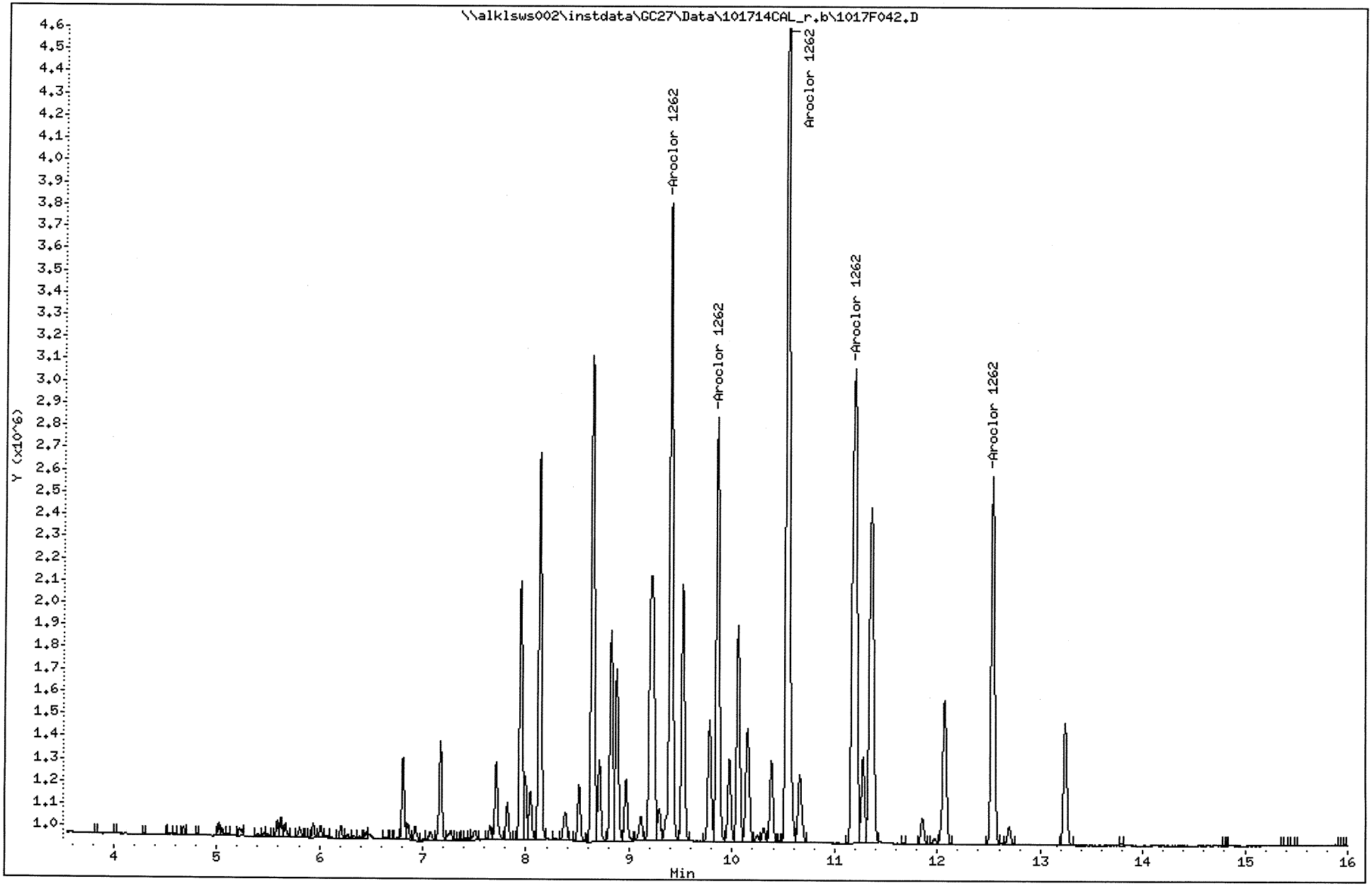
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

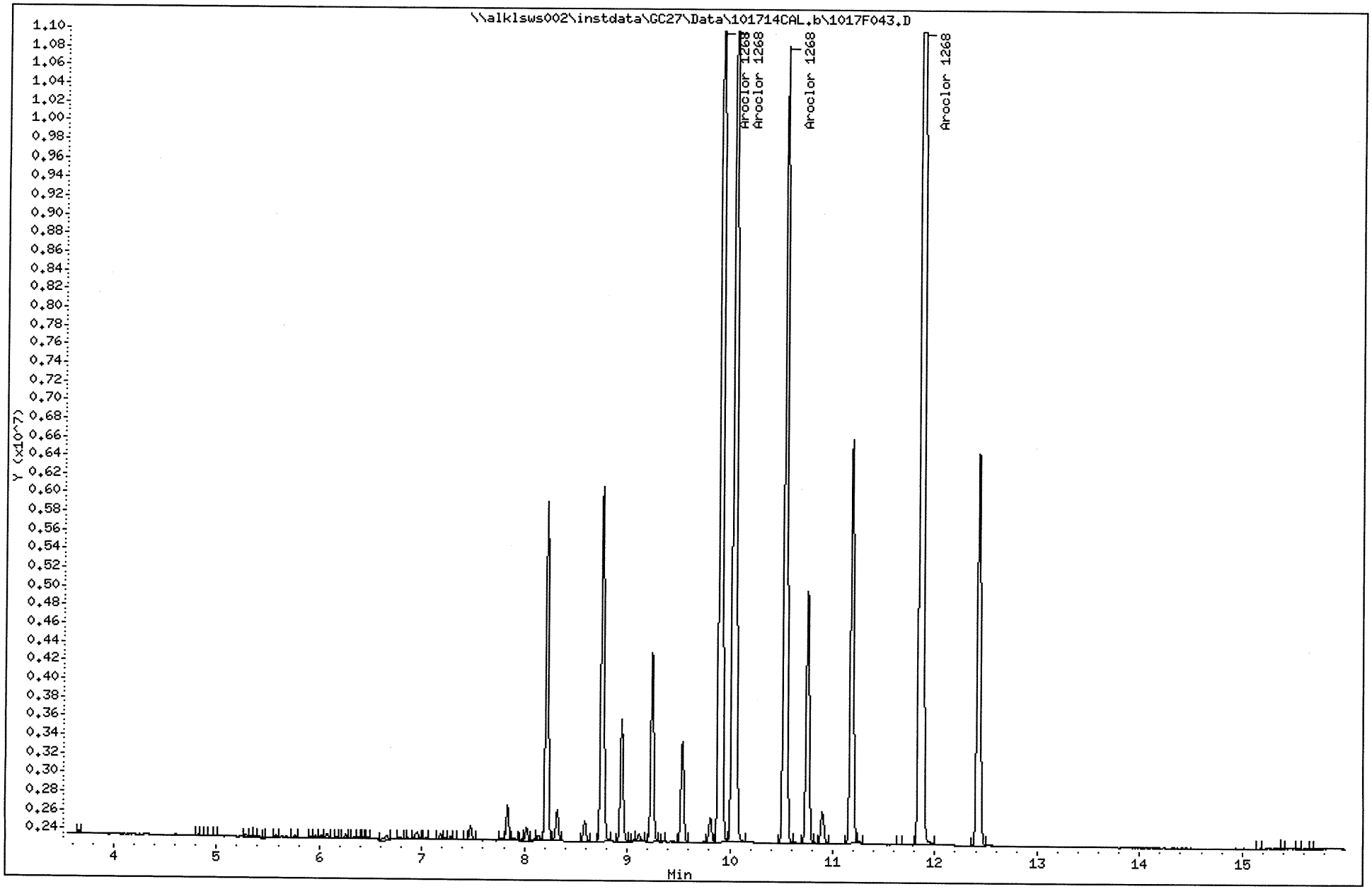
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

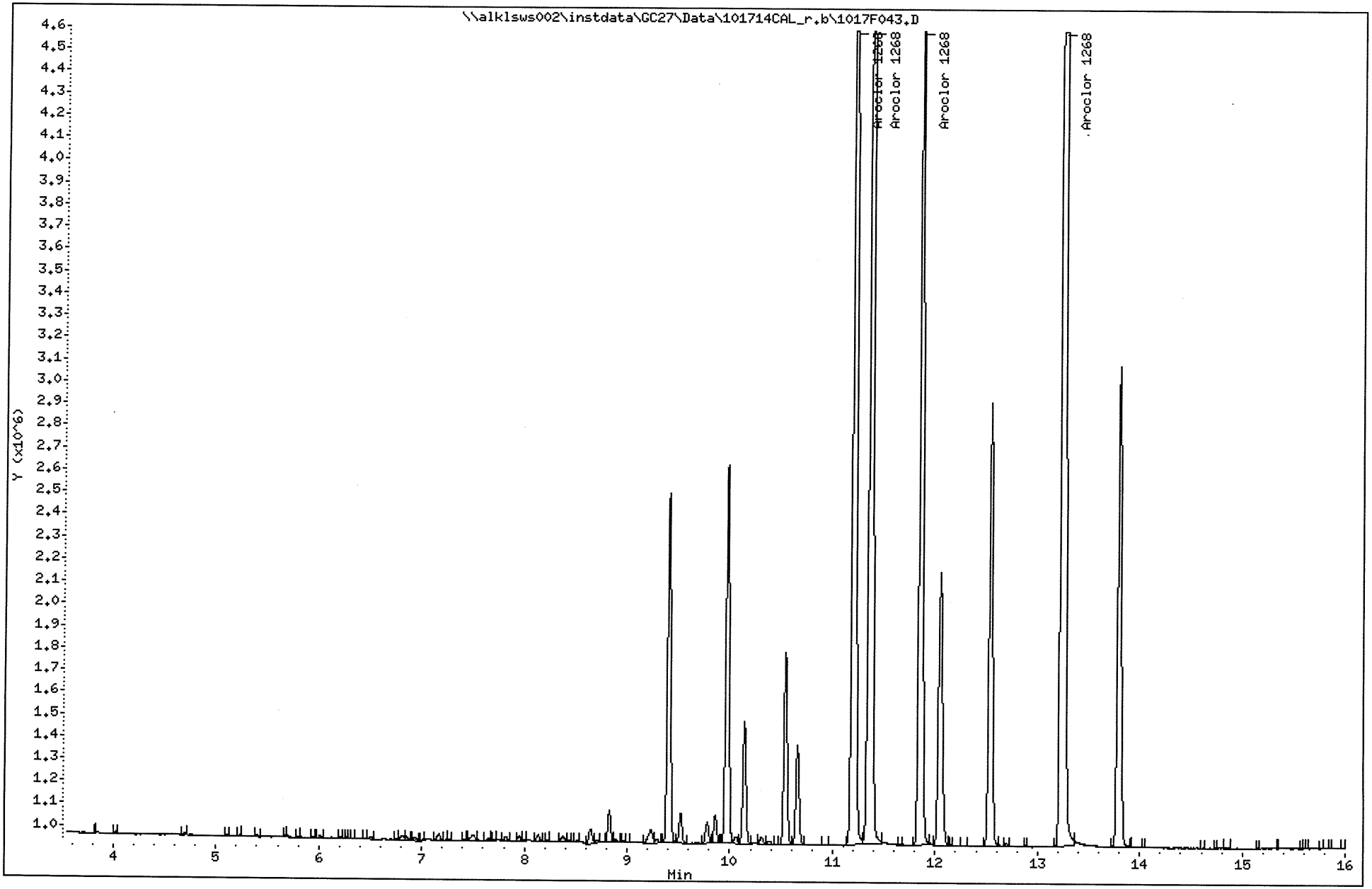


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

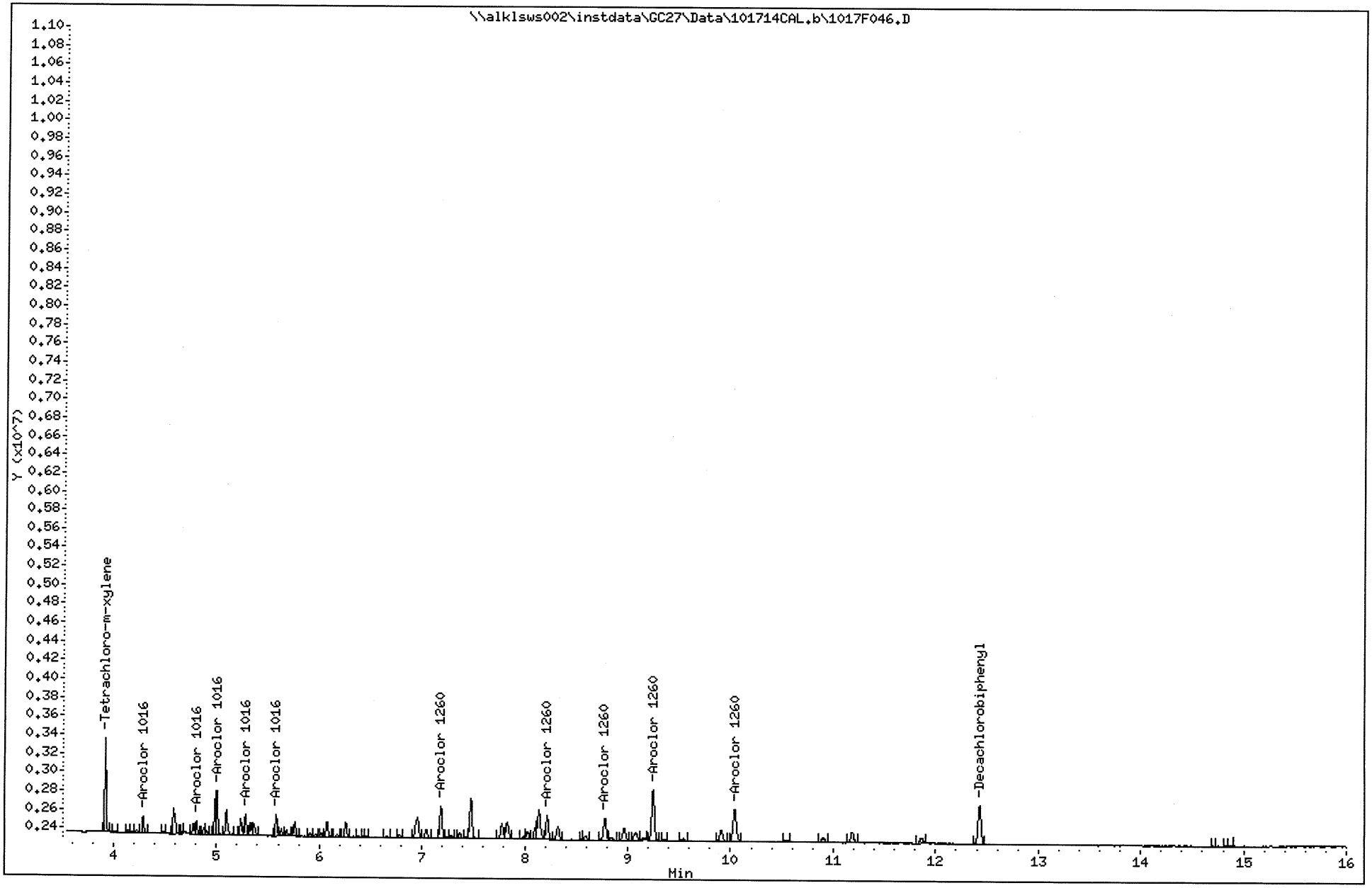
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

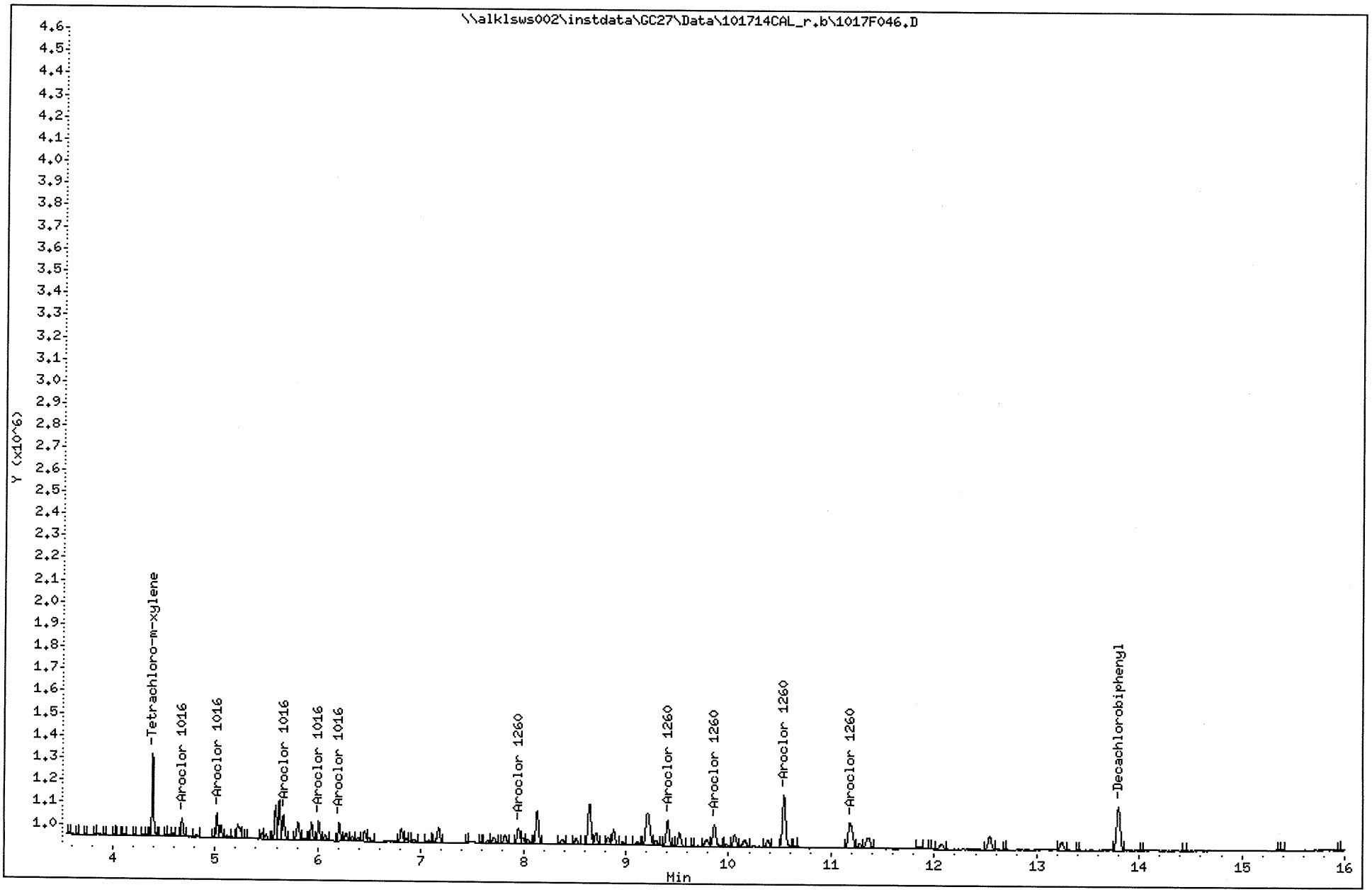


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

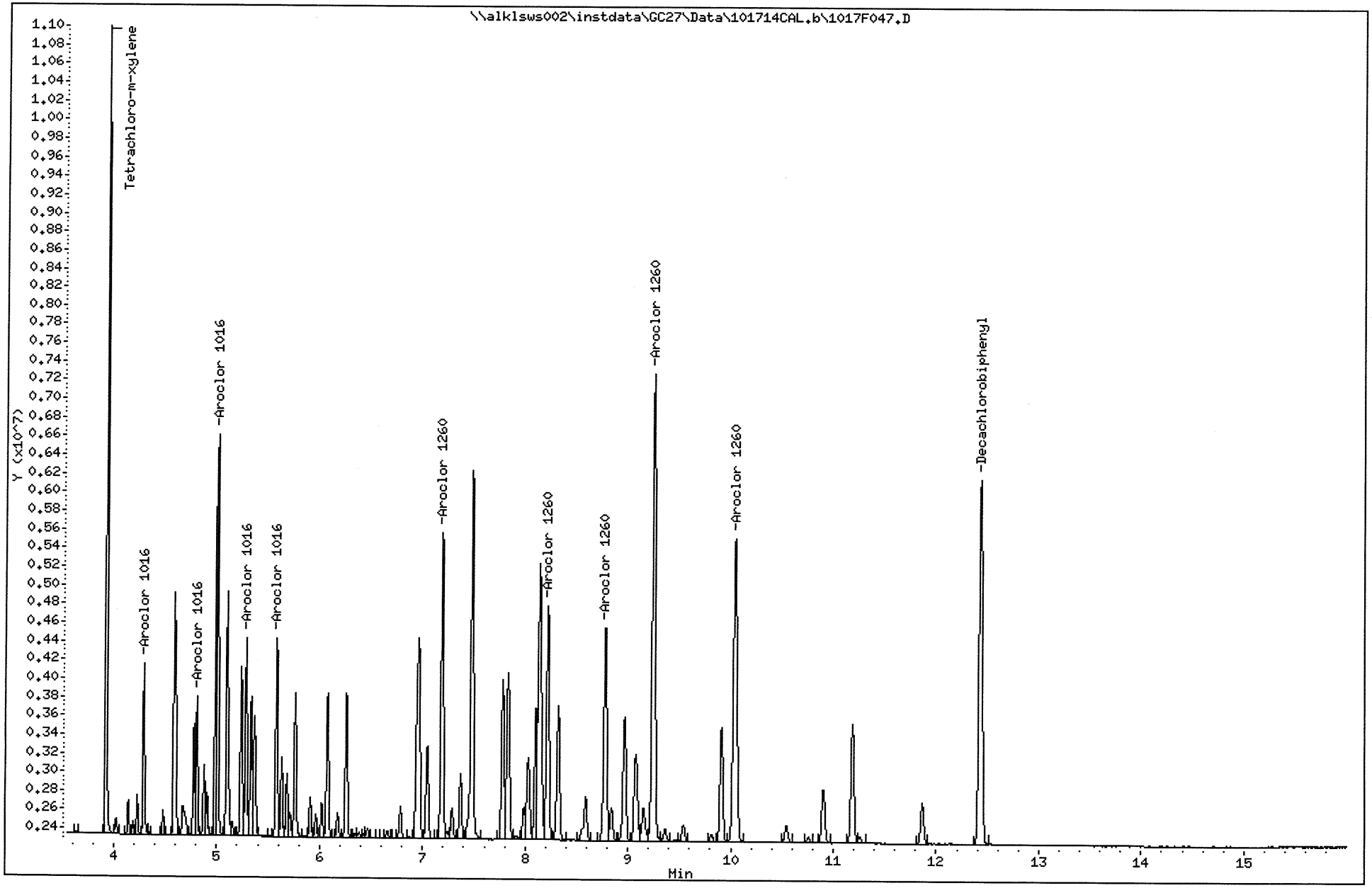
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



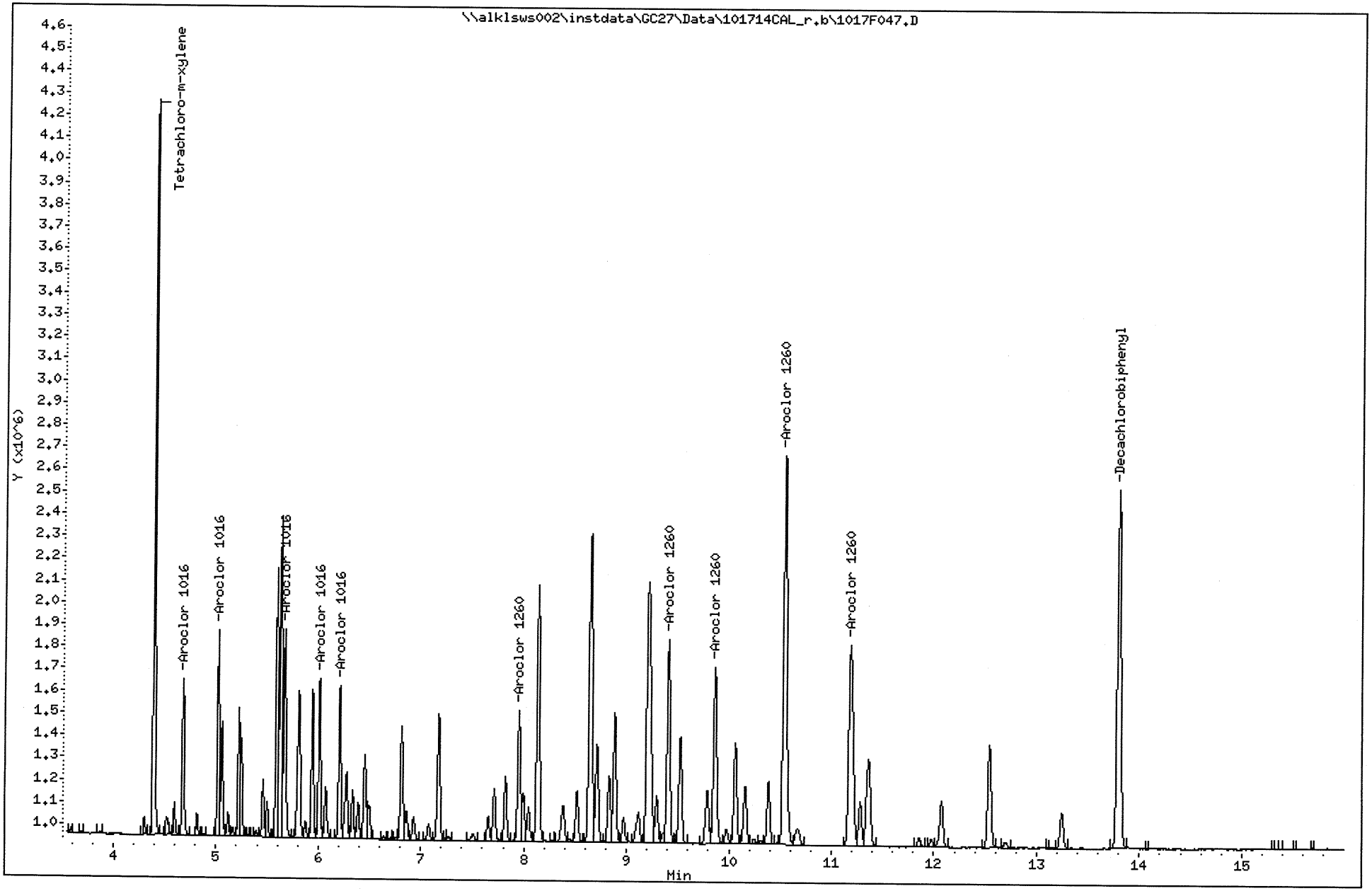
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

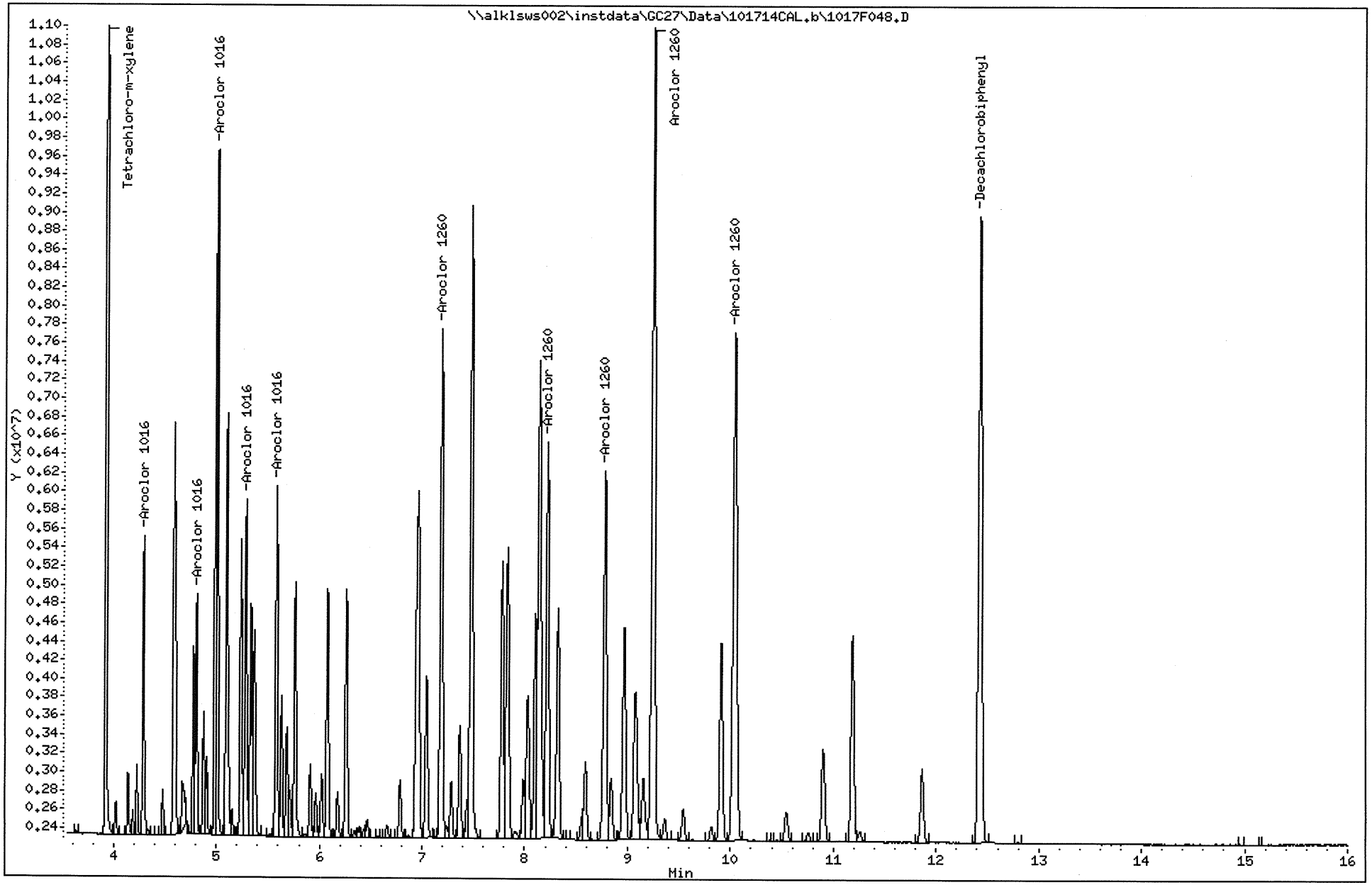
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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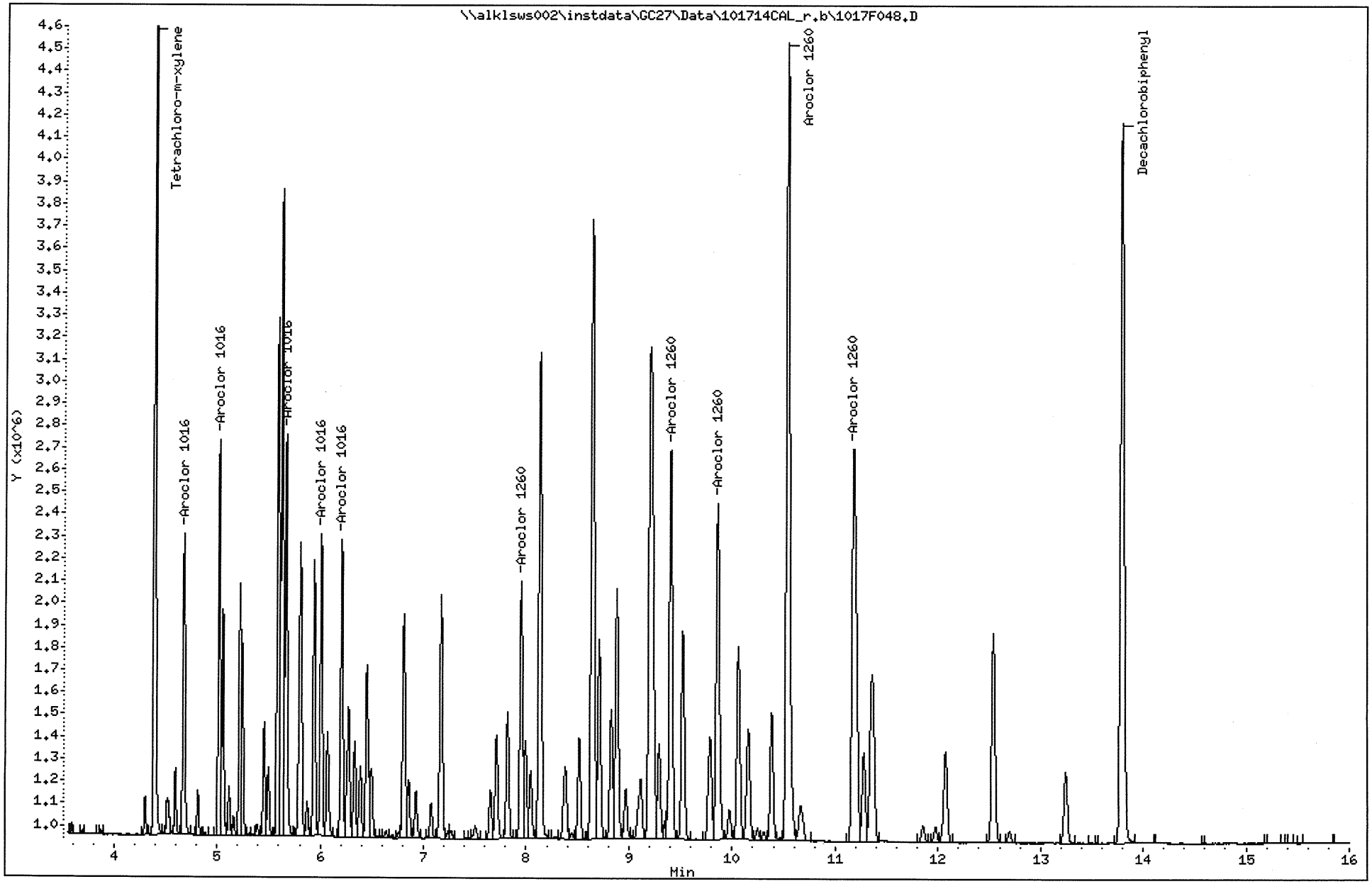
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

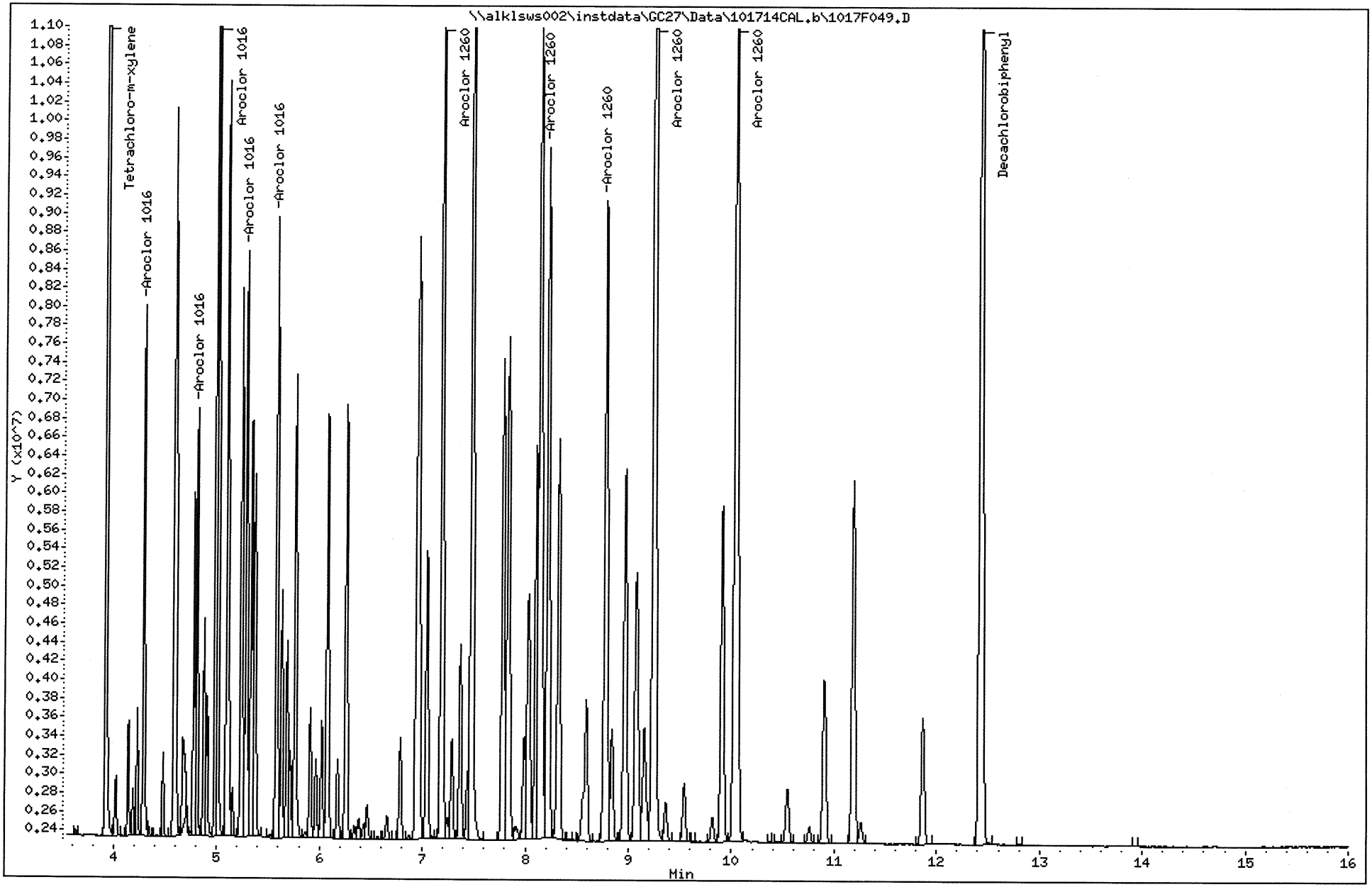
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

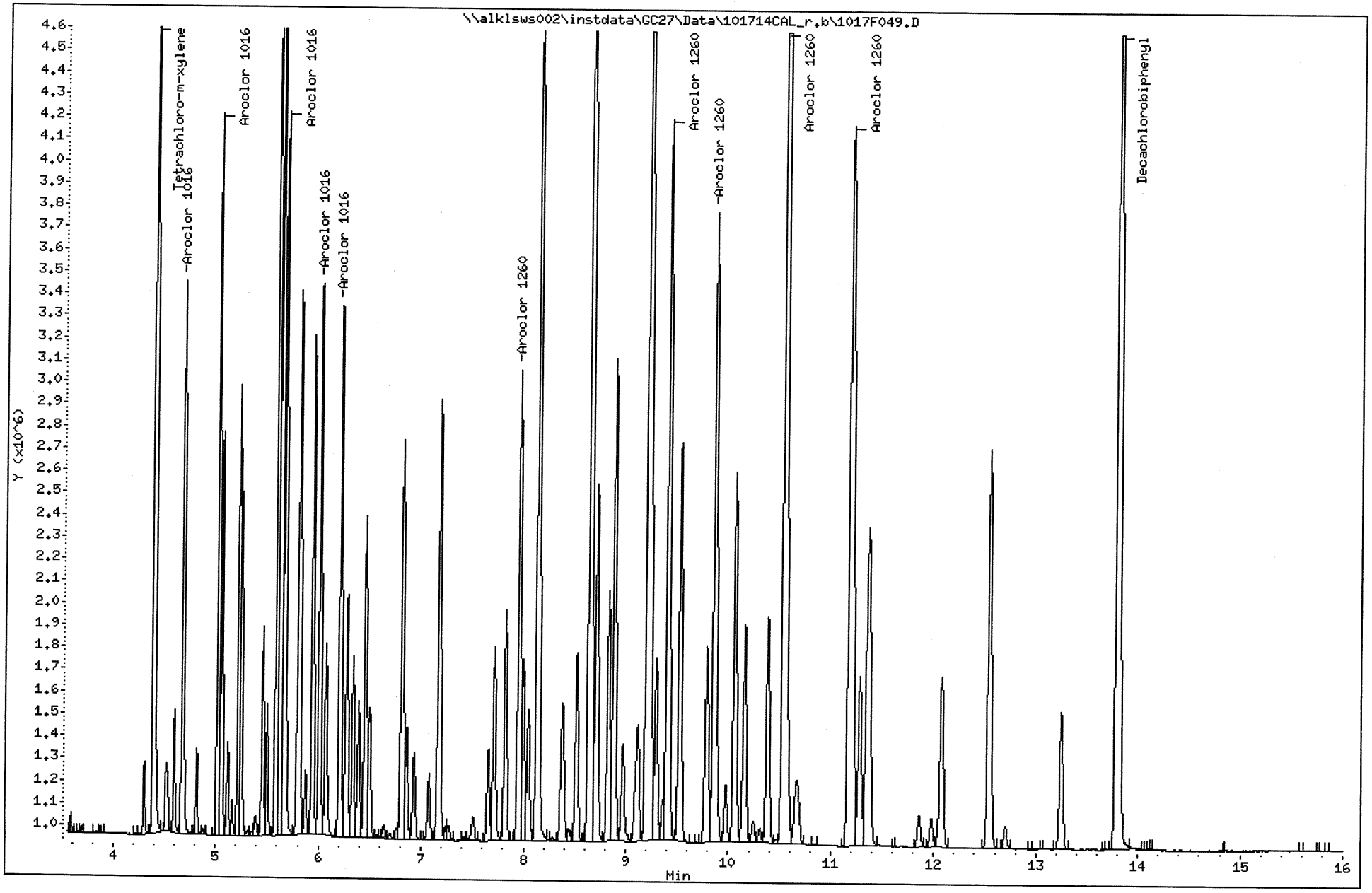


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

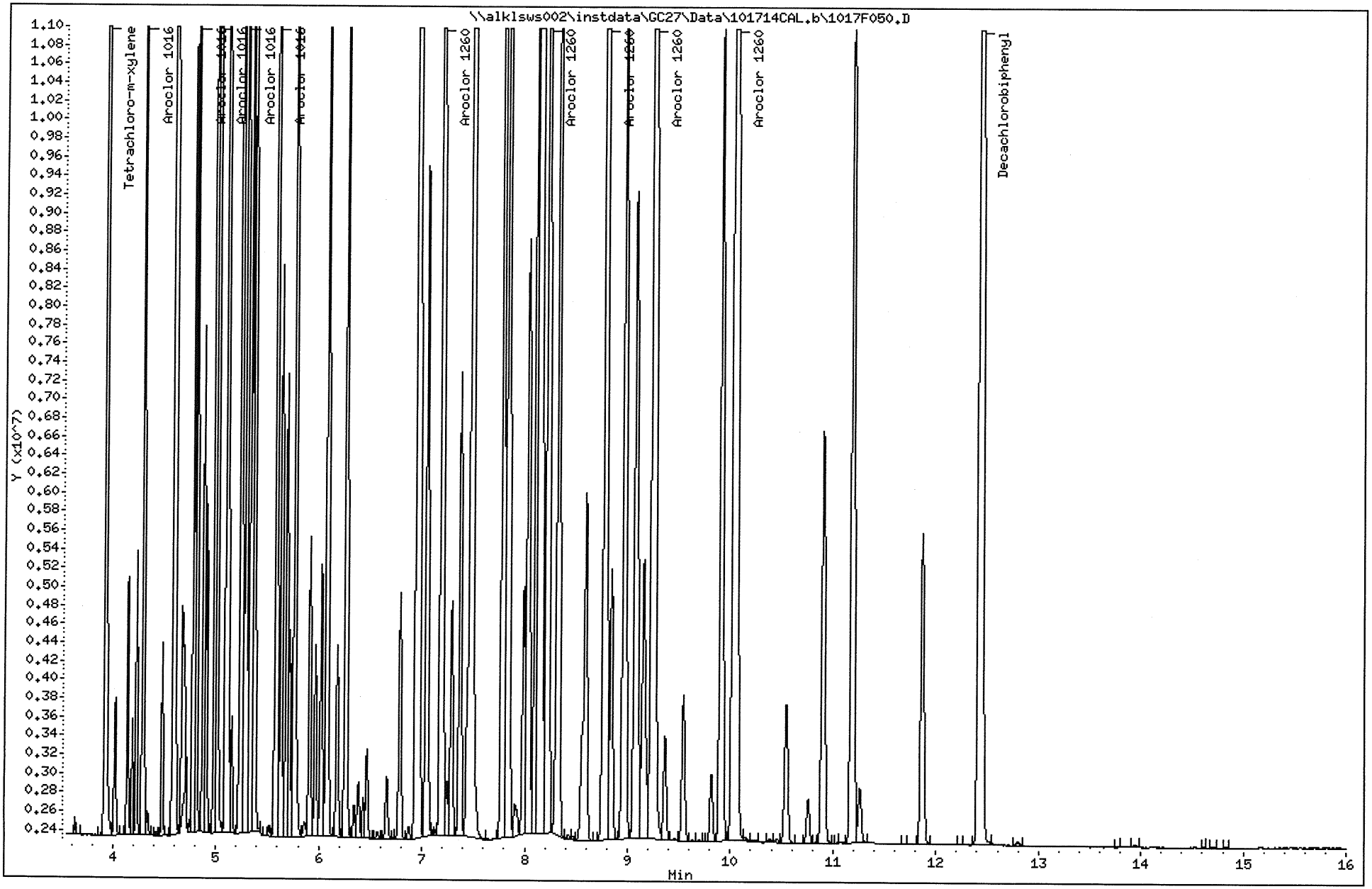
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

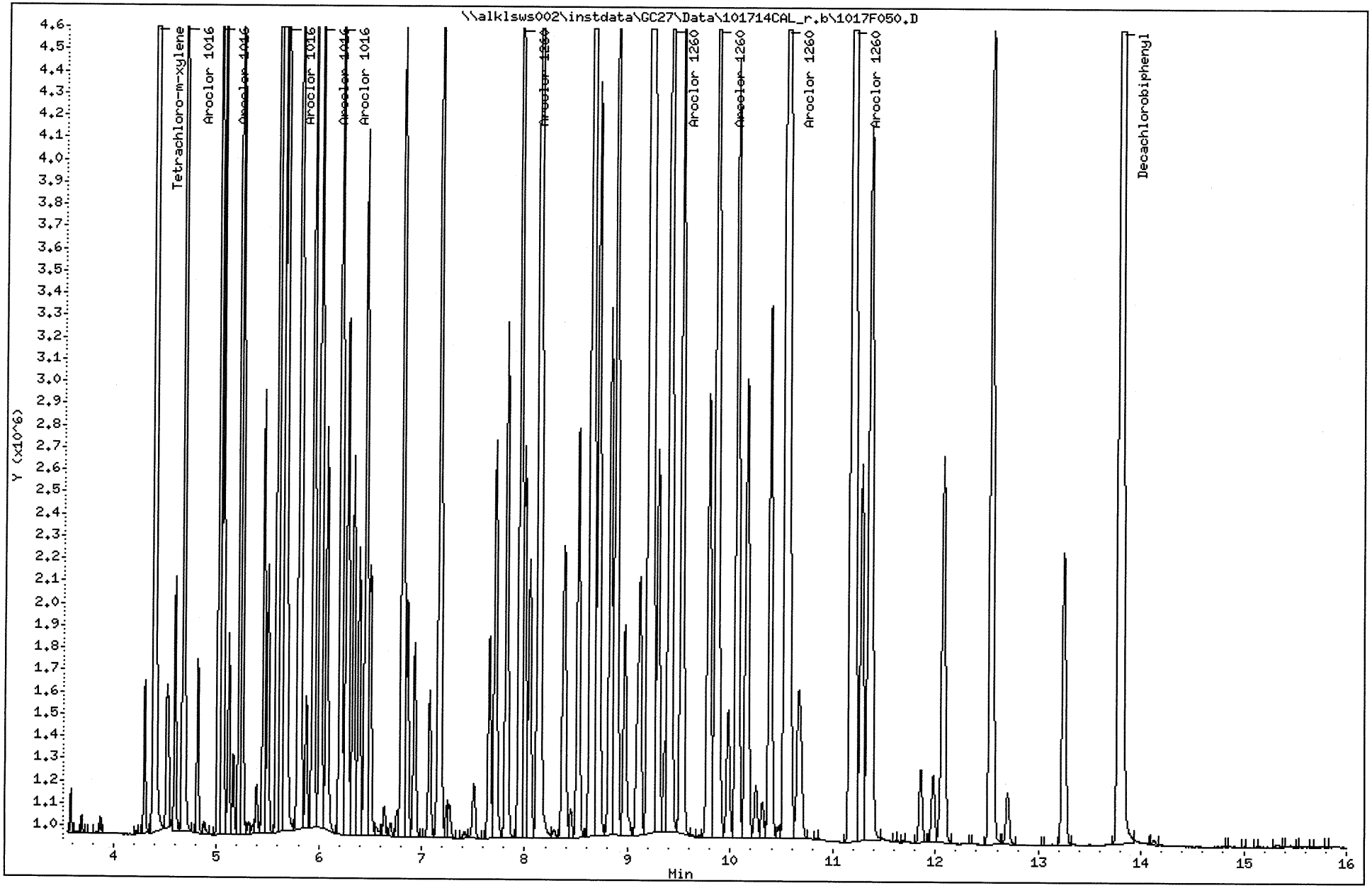


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

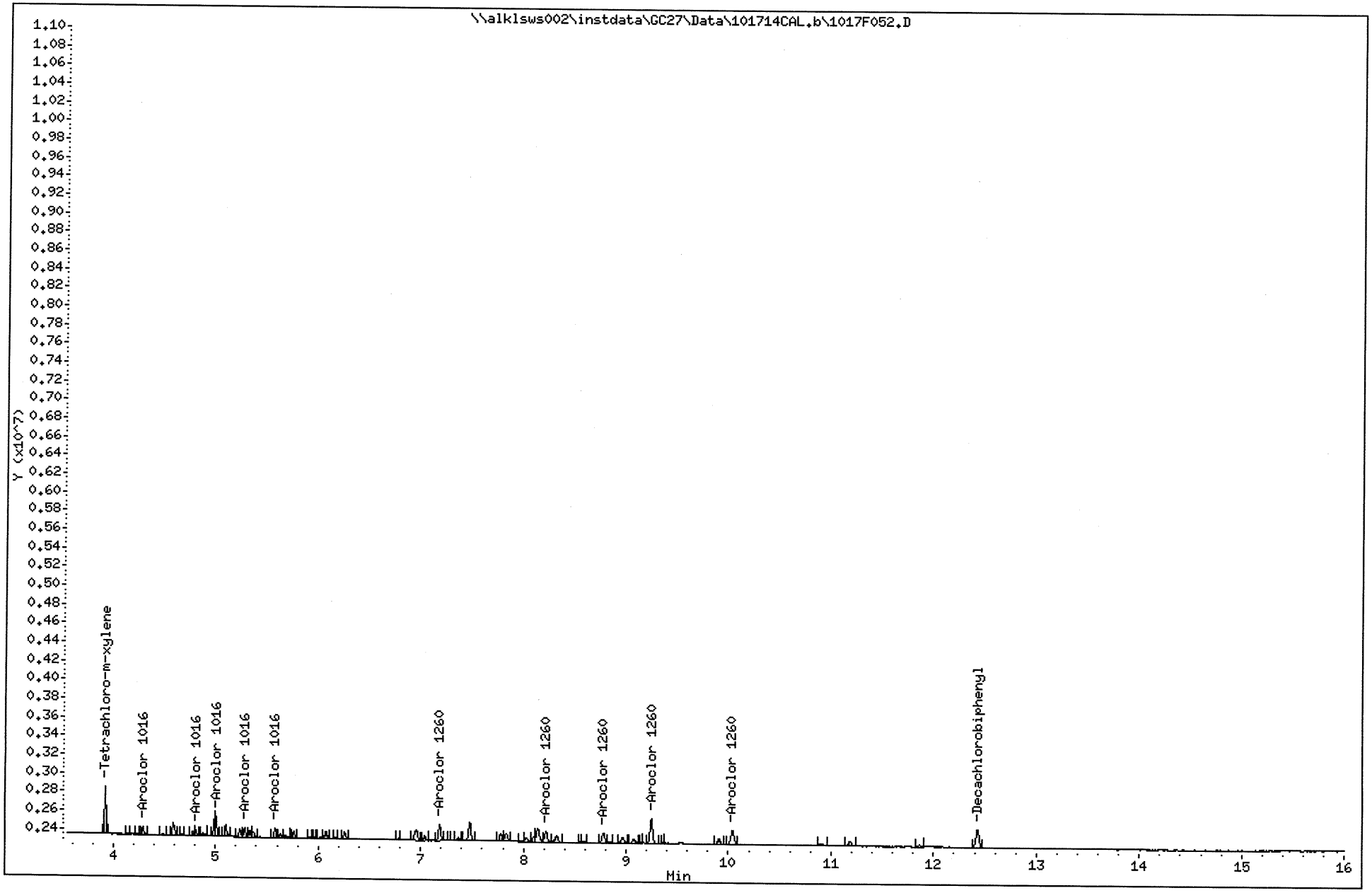
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



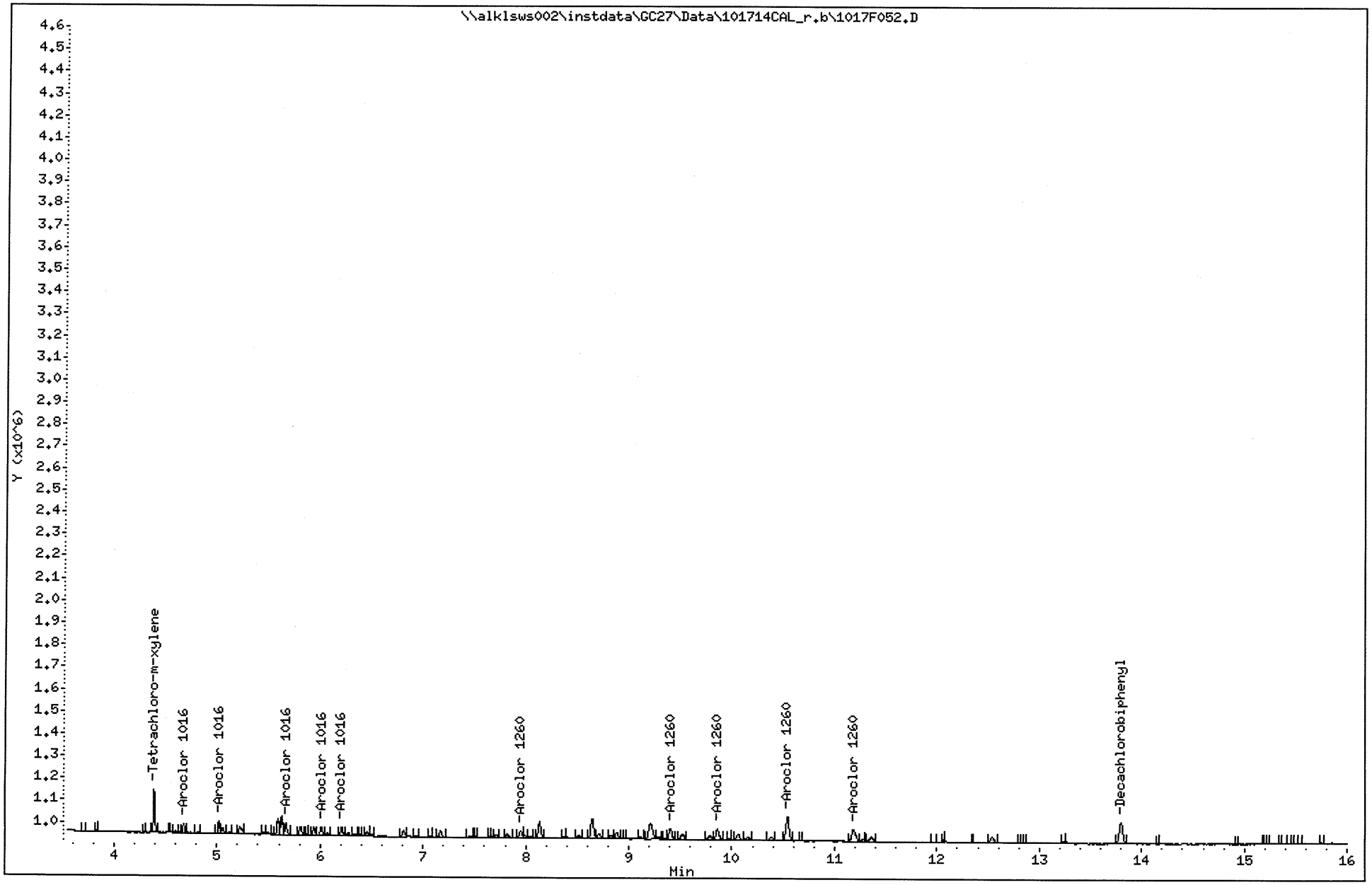
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

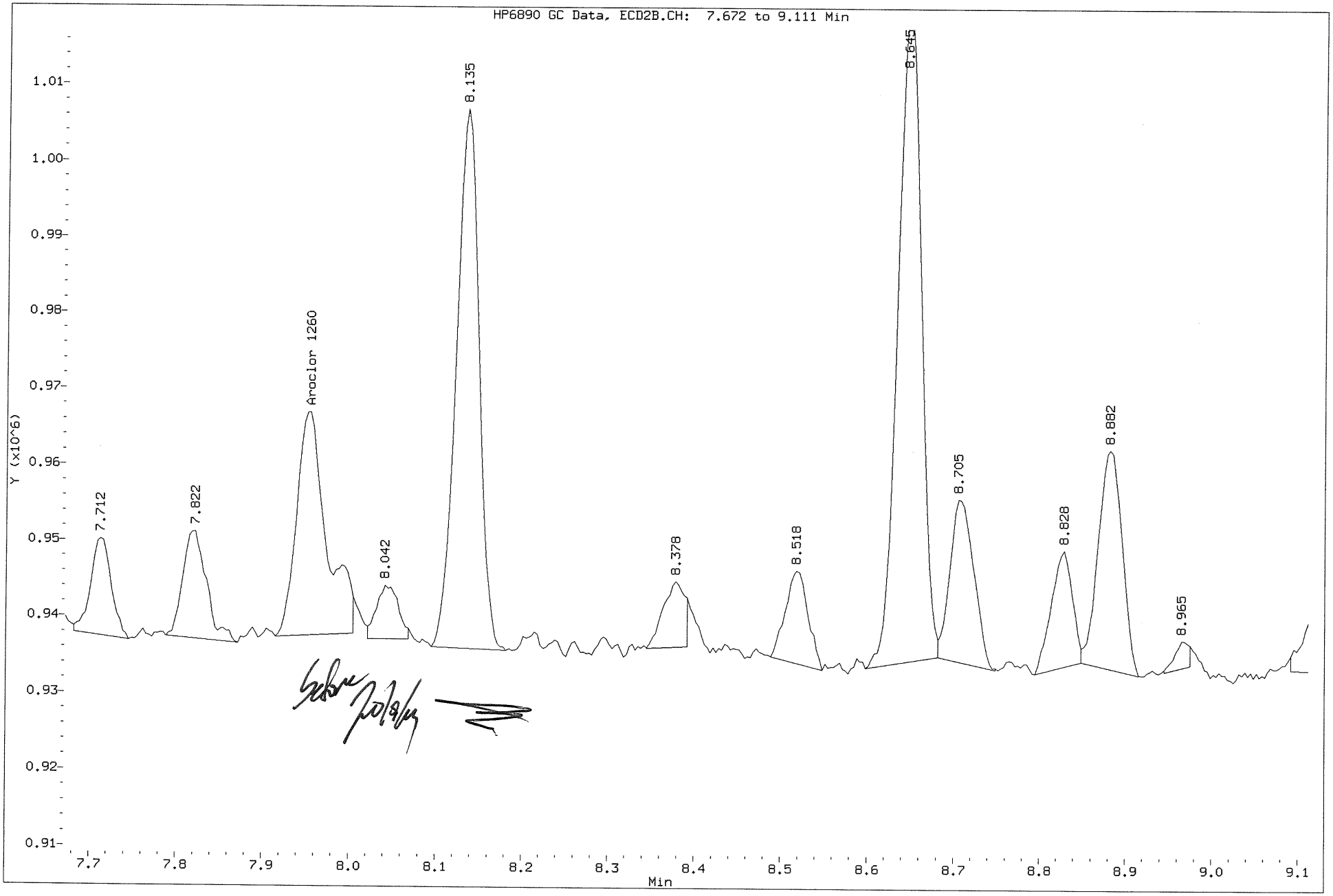
Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



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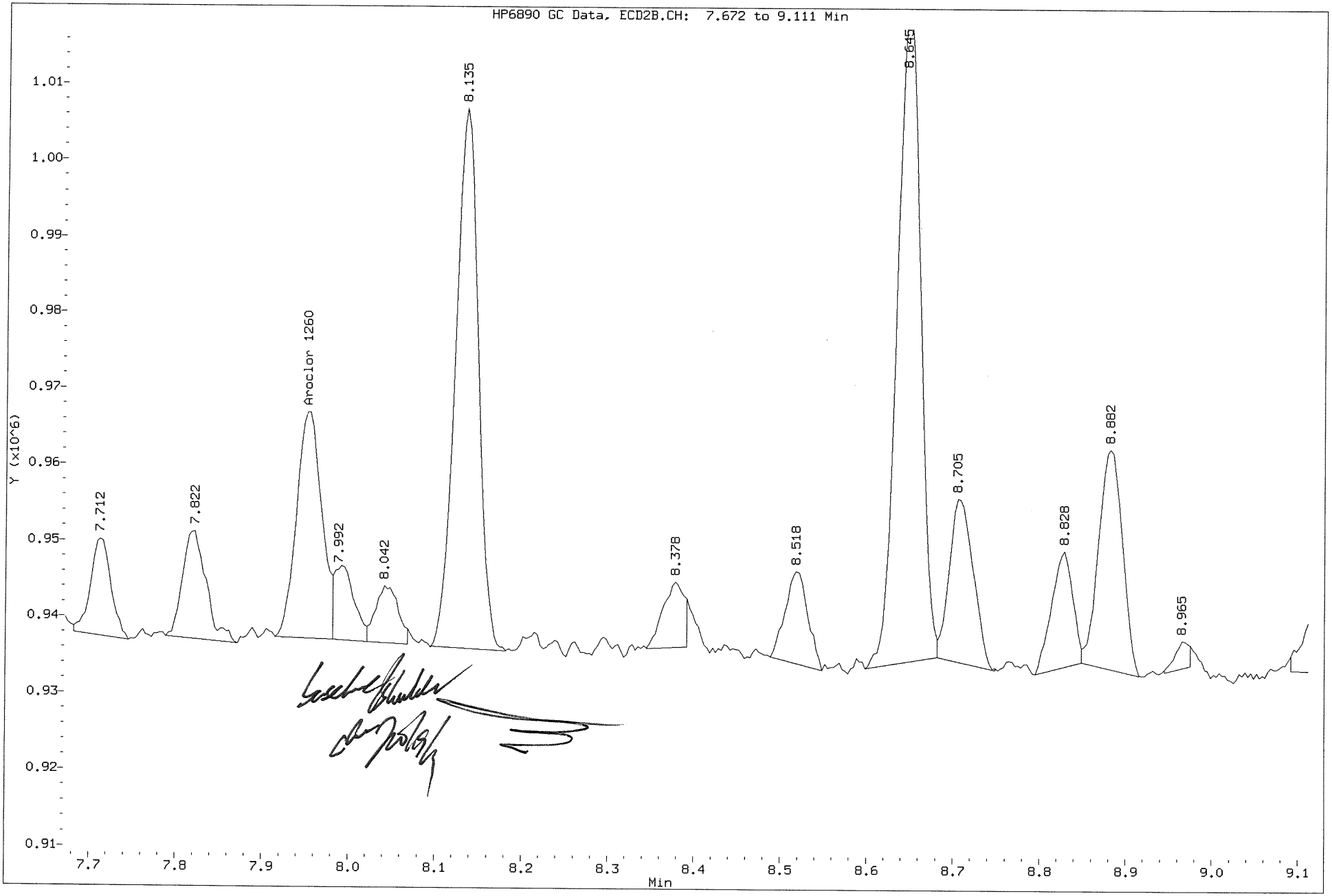
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

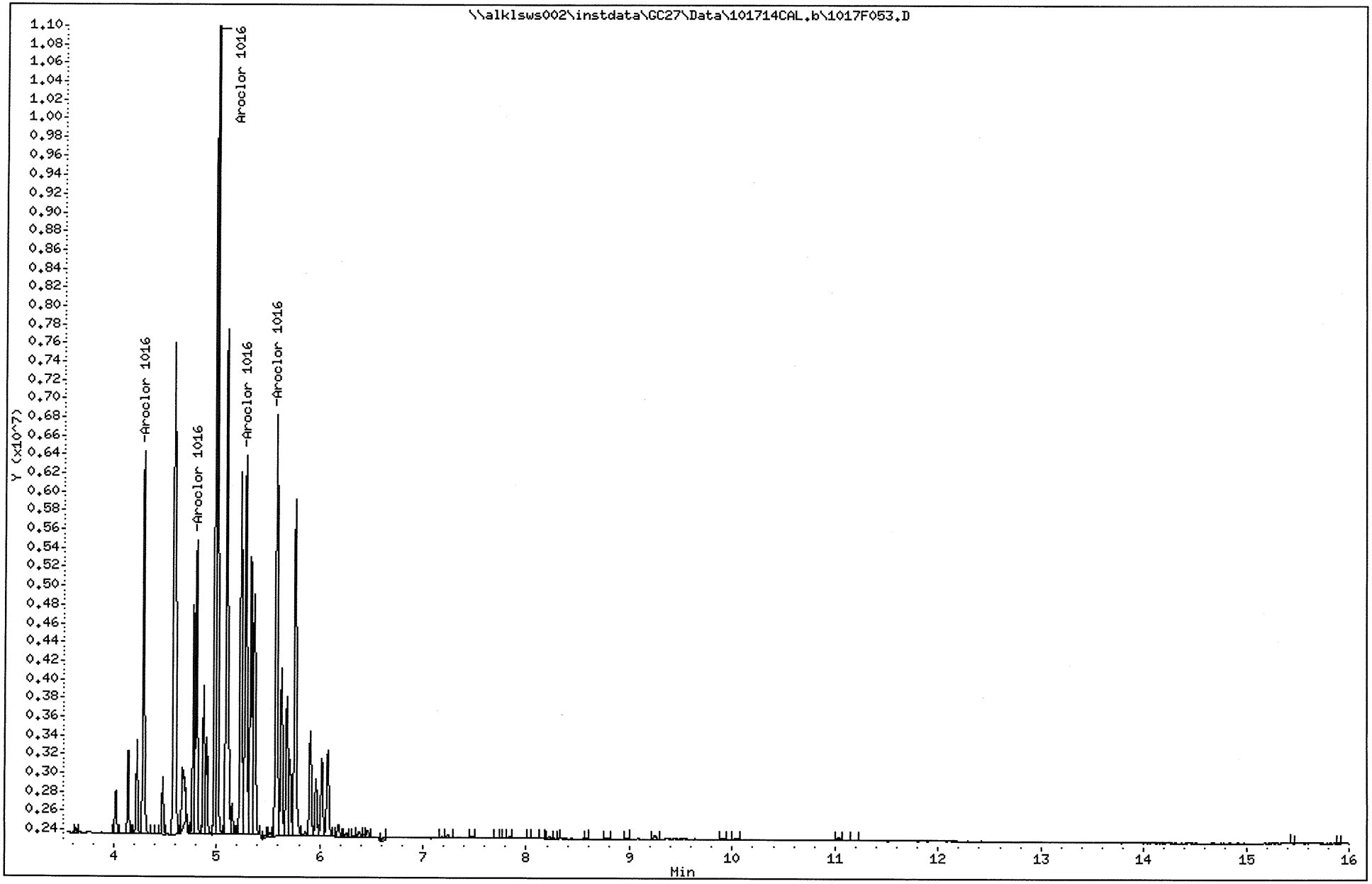
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



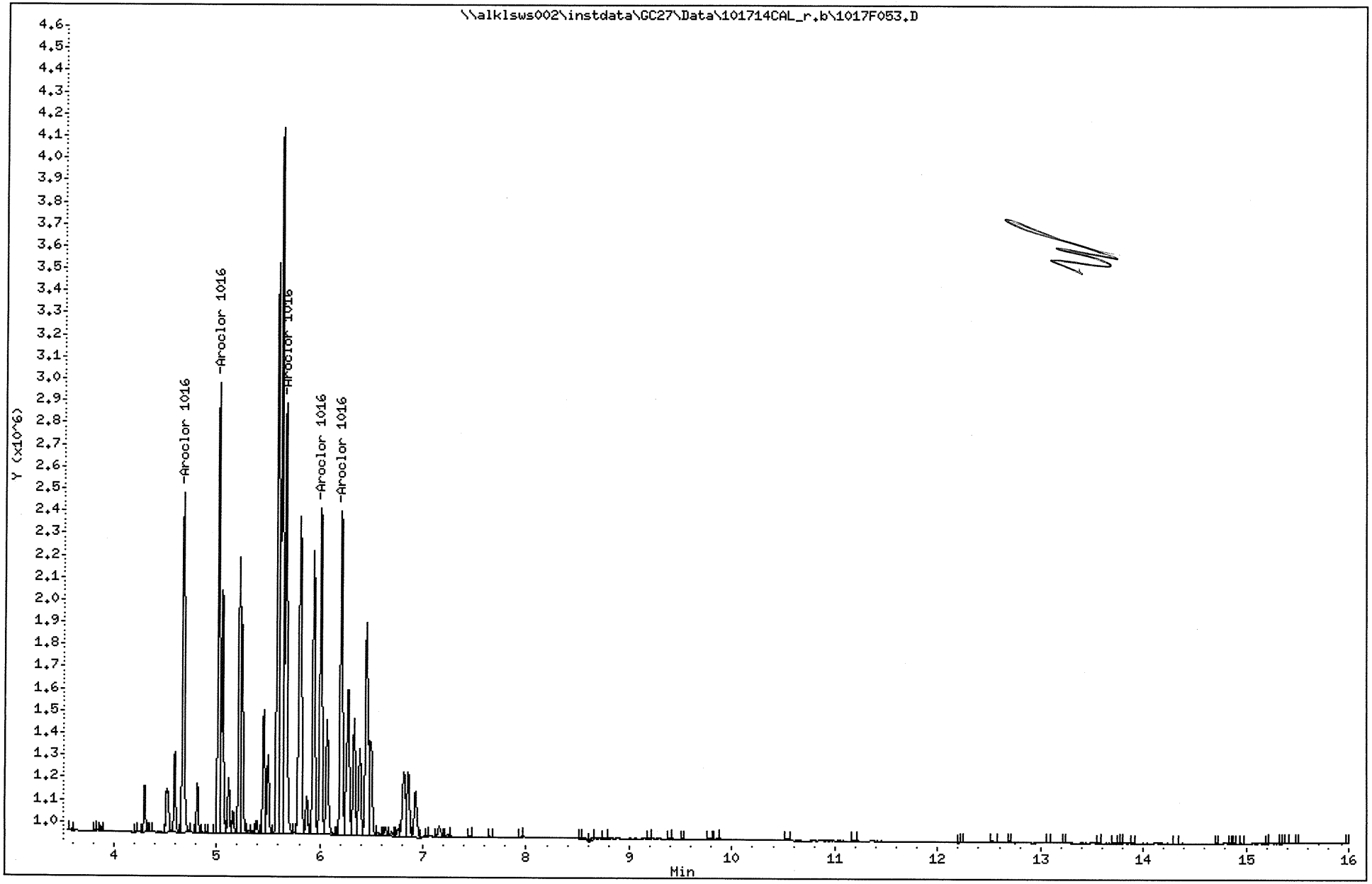
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

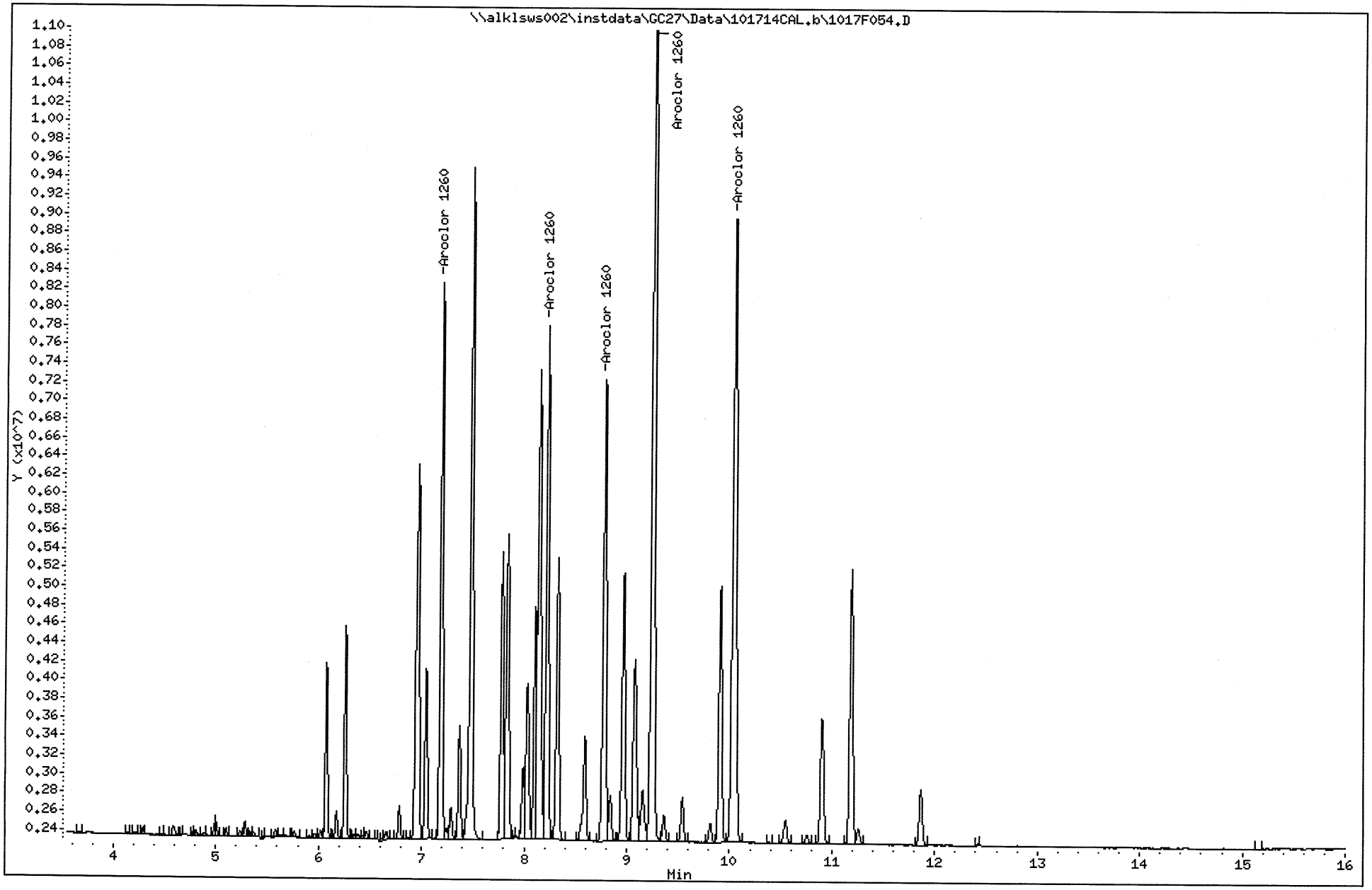
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



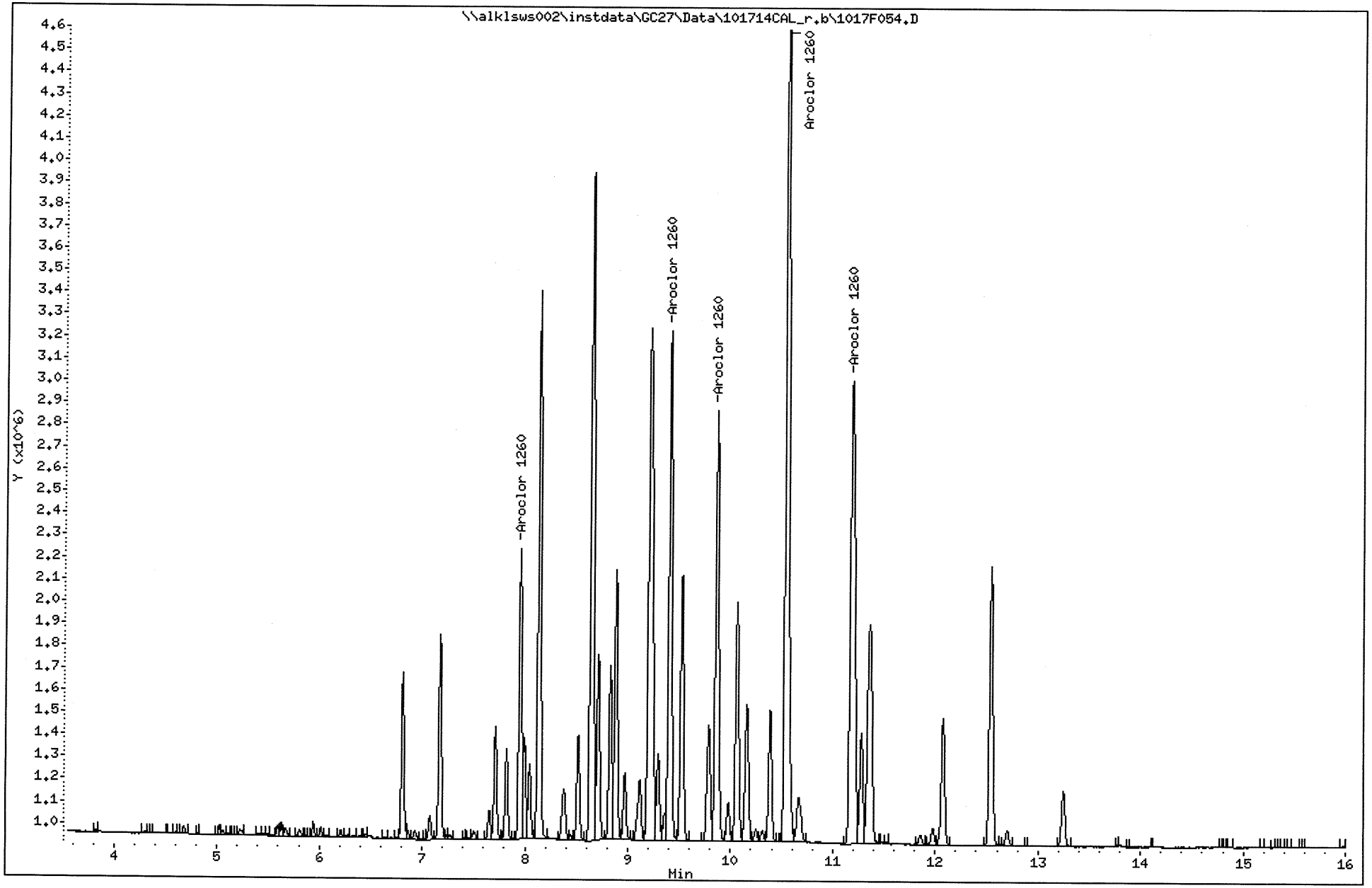
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



DILUTION LOG

LAB ID	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	ANALYST	SOLVENT LOT	COMMENTS
K1509213-003	10µL	1000µL	100X	09/23/15	MR	HEX: 101242	Target analyte overrange
-003 MS	↓	↓	↓	↓	↓	↓	↓
-003 DMS	↓	↓	↓	↓	↓	↓	↓
K1510240-001	20µL	↓	50X	↓	↓	↓	↓

Preparation Information

Group ID:	KWG1508974	**Prep Method:**	EPA 3541	**Prep Date:**	09/18/15 14:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509213-003	BF-4 Composite	8082A PCB LL	SOIL	40.050g	4ml	
K1510240-001	UBPE-2	8082A PCB LL	SOIL	40.112g	4ml	
KWG1508974-1	Matrix Spike	8082A PCB LL	SOIL	40.164g	4ml	
KWG1508974-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.245g	4ml	
KWG1508974-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508974-4	Method Blank	8082A PCB LL	SOIL	40.245g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508974-1	K1509213-003	
KWG1508974-2	K1509213-003	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509213-003	1468237					LMuresan
K1510240-001	1468013					LMuresan
KWG1508974-1	1468014					LMuresan
KWG1508974-2	1468015					LMuresan
KWG1508974-3	1468016					LMuresan
KWG1508974-4	1468017					LMuresan

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Elissa Bruno Date: 9-23-15 Storage:

Chain of Custody

Relinquished By: Date: 9-22-15

Received By: MR Date: 09/23/15 0950 Extracts Examined Yes No

Preparation Information

Group ID: KWG1508974 **Prep Method:** EPA 3541 **Prep Date:** 09/18/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. mL	Final Vol. mL	Surr. Added µL	Spike Added µL
1 *	K1509213-003	BF-4 Composite	.01	✓	8082A PCB LL	SOIL	40.050	N/A	10	4	200	–
2 *	K1510240-001	UBPE-2	.01	✓	8082A PCB LL	SOIL	40.112	↓	10	4	↓	–
3 *	KWG1508974-1	Matrix Spike K1509213-3	.01	✓	8082A PCB LL	SOIL	40.164	↓	10	4	↓	100
4 *	KWG1508974-2	Duplicate Matrix Spike ↓	.01	✓	8082A PCB LL	SOIL	40.245	↓	10	4	↓	↓
5 *	KWG1508974-3	Lab Control Sample	–	–	8082A PCB LL	SOIL	20.000	↓	10	4	↓	↓
6 *	KWG1508974-4	Method Blank	–	–	8082A PCB LL	SOIL	40.245	↓	10	4	↓	–

Comments: * sample(s) came down with an hour left in extraction phase prep run #245174

Surrogate ID: PCB6-767, 2ppm, XP 3/17/16, 200 µL, EPP 10D
Spike ID: PCB6-73E, 40ppm, XP 12/29/15, 100 µL, EPP 3D
Witness: RV. 9/18/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1510240 09213 **Work Group # Pest:** —
PCB: KWG1508974

Weighed (time/date/initial): 1400 9/18/15 LM Balance ID: K-Bal- 03 Calibration Verified ☑

Storage Location (if not extracted same day): —

DCM Lot # DN111 Sulfate Lot # K259001 Matrix Lot # 061614 Glass Wool Lot # 30714002

Soxtherm Start (time/date/initial): 1400 9/18/15 LL

Soxtherm Stop (time/date/initial): 1546 9/18/15 LL

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 3:00 9-21-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 8:20 9-22-15 K Hexane Lot# ~~108975~~ 108975
S-Evap (time/date/initial): — S-Evap Thermometer ID: EE 9-22-15 K
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 8:10 9-22-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:50 9-22-15 K Acid Lot #54344

Other Clean-up: 3660B 9-22-15 K ☑ all samples ☐ some samples: EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Mickey A1-6

Archived Extract Storage: Lonnie

Additional Comments:

Bench Sheet Review Check List
☑ Hold times met (if no, reason:)
☑ Prep date, time, method, department, product code correct in stealth
☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked - bottle numbers appended if required
☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached

ALS Environmental
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October 09, 2015

Analytical Report for Service Request No: K1508581
Revised Service Request No: K1508581.01

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz-Oregon Steel / C1144-0630

Dear Craig,

Enclosed is the revised report for the sample(s) submitted to our laboratory August 06, 2015
For your reference, these analyses have been assigned our service request number **K1508581.**

The total solids have been added to this report.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

We apologize for any inconvenience this may have created.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

REVISED
2:57 pm, Oct 09, 2015

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- Metals
- Polychlorinated Biphenyls (PCBs)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Received:**	08/06/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two soil samples were received for analysis at ALS Environmental on 08/06/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:
The matrix spike recoveries of Chromium and Zinc for sample BF-1 were outside the ALS control criteria as a result of the heterogeneous character of the sample. The Relative Percent Difference (RPD) for the replicate analysis supported this. Since the unspiked samples contained high analyte concentrations relative to the amount spiked, the variability between replicates was sufficient to bias the percent recoveries outside normal ALS control criteria. The associated QA/QC results (e.g. control sample, calibration standards, etc.) indicated the analysis was in control. No further corrective action was appropriate.

The control criteria for matrix spike recovery of Manganese for sample BF-1 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Arsenic, Cadmium, Copper, and Manganese in sample BF-1 was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Calibration Verification Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Aroclor 1016 in CCV 0820F029. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Approved by_____

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria were not met for Aroclor 1260 in CAL 13624. The data quality was not affected. No further corrective action was necessary

Elevated Detection Limits:
Sample BF-1 and BF-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aroclor 1260 for sample Batch QC were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Sample Notes and Discussion:
Three Aroclors were identified in sample BF-2: Aroclor 1248, Aroclor 1254, and Aroclor 1260. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Aroclor 1260 was identified based on the presence of late eluting PCB peaks in the chromatogram. The remainder of the PCB pattern was identified as Aroclor 1254 because PCB peak height in the middle of the chromatogram was larger than could be attributed to either Aroclor 1242, Aroclor 1248, or Aroclor 1260.
When Aroclor mixtures are present in a sample, care is taken to minimize the possibility of double-counting PCBs. Analytical peaks are selected based on the best resolution possible for that particular sample. However, when a mixture of Aroclors are present in a sample, the potential exists for a high bias from contribution of one Aroclor to another due to common peaks or peaks that cannot be completely resolved.

Two Aroclors were identified in sample BF-1: Aroclor 1248 and Aroclor 1254. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.
A review of the sample chromatograms indicated the presence of PCB patterns or matrix components that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Although the presence of Aroclor 1242 cannot be ruled out, Aroclor 1248 appears to be the best match based on the early eluting peaks in the PCB chromatogram. Aroclor 1254 was identified based on the presence of PCB peaks eluting late in the chromatogram.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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CHAIN OF CUSTODY

SR#: 1508587

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PAGE 1 OF 1 COC #

PROJECT NAME: EVRAZ-Oregon Steel C1144-0630
PROJECT NUMBER: C1144-0630
PROJECT MANAGER: Craig Heimbacher / Glenn Esler
COMPANY/ADDRESS: Integral Consulting Inc 319 SW Washington St., Suite 1150
CITY/STATE/ZIP: Portland OR 97204
E-MAIL ADDRESS: cheimbacher@integral-corp.com
PHONE #: 503-943-3629 FAX #: 503-284-5755
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors 8082	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below) 6010A	Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
BF-1	8/3/15	1348		soil	2					X				X						
BF-2	8/5/15	1505		soil	2					X				X						

8/6/2015

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al (As) Sb Ba Be B Ca (Cd) Co (Cr) (Cu) Fe (Pb) Mg (Mn) Mo Ni K Ag Na Se Sr Tl Sn V (Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: 8/6/15 1052	Signature: 8/6/15 1052	Signature / Date/Time	Signature / Date/Time
Date/Time	Date/Time		
Printed Name: Andrew Hammond	Printed Name: D Dwyer	Printed Name / Firm	Printed Name / Firm
Firm: Integral	Firm: ACS		

RCOC #1 03/10

PC Reg

Cooler Receipt and Preservation Form

Client / Project: Integral Service Request *K15* 08581

Received: 8-6-15 Opened: 8-6-15 By: bw Unloaded: 8-6-15 By: bw

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* (*Courier*) *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front

   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number (NA)	Filed
0.6	0.6	1.1	1.1	0	337			

4. Packing material: *Inserts* (*Baggies*) (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

REVISED
2:58 pm, Oct 09, 2015

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/03/15 - 08/05/15
Sample Matrix:	Soil	**Date Received:**	08/6/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-1	K1508581-001	**93.7**	-	-	1	08/10/15 18:14	
BF-2	K1508581-002	**90.7**	-	-	1	08/10/15 18:14	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Analyzed:	08/10/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	Percent
Lab Code:	K1508620-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1508620-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	82.0	83.6	82.8	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/03/15 - 08/05/15
Sample Matrix:	Soil	**Date Received:**	08/6/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-1	K1508581-001	**93.7**	-	-	1	08/10/15 18:14	
BF-2	K1508581-002	**90.7**	-	-	1	08/10/15 18:14	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Analyzed:	08/10/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	Percent
Lab Code:	K1508620-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1508620-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	82.0	83.6	82.8	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1508581
Project No.: C1144-0630
Date Collected: 8/3/2015
Project Name: Evraz-Oregon Steel
Date Received: 8/6/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-1
Lab Code: K1508581-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.42	0.05	5.0	08/21/15	08/24/15	5.26		*
Cadmium	6020A	0.017	0.004	5.0	08/21/15	08/24/15	0.580		*
Chromium	6020A	1.68	0.25	50.0	08/21/15	08/25/15	139		N
Copper	6020A	0.840	0.168	50.0	08/21/15	08/25/15	37.1		*
Lead	6020A	0.042	0.004	5.0	08/21/15	08/24/15	22.7		
Manganese	6020A	0.42	0.17	50.0	08/21/15	08/25/15	3950		*
Zinc	6020A	4.20	0.84	50.0	08/21/15	08/25/15	155		N

% Solids: 93.7

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1508581
Project No.: C1144-0630
Date Collected: 8/5/2015
Project Name: Evraz-Oregon Steel
Date Received: 8/6/2015
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-2
Lab Code: K1508581-002

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.44	0.05	5.0	08/21/15	08/24/15	7.39		*
Cadmium	6020A	0.018	0.004	5.0	08/21/15	08/24/15	7.040		*
Chromium	6020A	1.76	0.27	50.0	08/21/15	08/25/15	149		N
Copper	6020A	0.882	0.176	50.0	08/21/15	08/25/15	82.5		*
Lead	6020A	0.044	0.004	5.0	08/21/15	08/24/15	607		
Manganese	6020A	0.44	0.18	50.0	08/21/15	08/25/15	4750		*
Zinc	6020A	4.41	0.88	50.0	08/21/15	08/25/15	2640		N

% Solids: 90.7

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1508581
Project No.: C1144-0630
Date Collected:
Project Name: Evraz-Oregon Steel
Date Received:
Matrix: SEDIMENT
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1509275-14

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.06	5.0	08/21/15	08/24/15	0.06	U	*
Cadmium	6020A	0.020	0.005	5.0	08/21/15	08/24/15	0.005	U	*
Chromium	6020A	0.20	0.03	5.0	08/21/15	08/25/15	0.08	J	N
Copper	6020A	0.100	0.020	5.0	08/21/15	08/25/15	0.020	U	*
Lead	6020A	0.050	0.005	5.0	08/21/15	08/24/15	0.005	U	
Manganese	6020A	0.05	0.02	5.0	08/21/15	08/25/15	0.02	U	*
Zinc	6020A	0.50	0.10	5.0	08/21/15	08/25/15	0.10	U	N

% Solids: 100.0

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic	25.0	25.3	101	25.0	25.0	100	25.8	103	6020A
Cadmium	12.5	12.6	101	25.0	24.9	100	24.6	98	6020A
Chromium	10.0	9.8	98	25.0	25.0	100	24.3	97	6020A
Copper	12.5	11.8	94	25.0	24.5	98	23.2	93	6020A
Lead	25.0	25.8	103	25.0	25.4	102	25.4	102	6020A
Manganese	25.0	24.1	96	25.0	24.5	98	25.9	104	6020A
Zinc	25.0	25.3	101	25.0	25.8	103	25.3	101	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	25.0	100			6020A
Cadmium				25.0	24.9	100			6020A
Chromium				25.0	25.0	100			6020A
Copper				25.0	24.5	98			6020A
Lead				25.0	25.3	101			6020A
Manganese				25.0	26.6	106			6020A
Zinc				25.0	26.4	106			6020A

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1508581

Contract: C1144-0630 **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICVS									
	Arsenic	0.940	1.000	94	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Cadmium	0.036	0.040	90	70.0 - 130.0	MS	8/24/2015	18:49	082415d
	Lead	0.099	0.100	99	70.0 - 130.0	MS	8/24/2015	18:49	082415d
LLCCVS1									
	Arsenic	0.841	1.000	84	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Cadmium	0.039	0.040	98	70.0 - 130.0	MS	8/24/2015	20:58	082415d
	Lead	0.106	0.100	106	70.0 - 130.0	MS	8/24/2015	20:58	082415d
LLICVS1									
	Chromium	0.365	0.400	91	70.0 - 130.0	MS	8/25/2015	11:05	082515a
	Copper	0.204	0.200	102	70.0 - 130.0	MS	8/25/2015	11:05	082515a
	Manganese	0.115	0.100	115	70.0 - 130.0	MS	8/25/2015	11:05	082515a
	Zinc	1.011	1.000	101	70.0 - 130.0	MS	8/25/2015	11:05	082515a
LLCCVS1									
	Chromium	0.385	0.400	96	70.0 - 130.0	MS	8/25/2015	12:52	082515a
	Copper	0.218	0.200	109	70.0 - 130.0	MS	8/25/2015	12:52	082515a
	Manganese	0.097	0.100	97	70.0 - 130.0	MS	8/25/2015	12:52	082515a
	Zinc	1.112	1.000	111	70.0 - 130.0	MS	8/25/2015	12:52	082515a

Metals

- 3 -

BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic	0.12	U	0.12	U	0.12	U	-0.14	J	6020A
Cadmium	0.010	U	0.010	U	0.010	U	0.010	U	6020A
Chromium	0.06	U	0.06	U	0.06	U	0.06	U	6020A
Copper	0.040	U	0.040	U	0.040	U	0.040	U	6020A
Lead	0.010	U	0.010	U	0.022	J	0.010	U	6020A
Manganese	0.04	U	0.04	U	0.04	U	0.04	U	6020A
Zinc	0.20	U	0.20	U	0.20	U	0.20	U	6020A

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

ICP ID Number: K-ICP-MS-04 **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	25.0	0.0	24.3	97			
Cadmium	0.0	25.0	0.1	22.5	90			
Chromium	0.0	50.0	0.2	51.4	103			
Copper	0.0	50.0	0.3	45.2	90			
Lead	0.0		0.1	0.1				
Manganese	0.0	50.0	1.5	55.3	111			
Zinc	0.0	25.0	0.4	23.9	96			

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 93.7

Sample Name: BF-1S **Lab Code:** K1508581-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	75 - 125	92.40		5.26		87.48	100		6020A
Cadmium	75 - 125	9.047		0.580		8.75	97		6020A
Chromium	75 - 125	214.90		138.76		34.99	218	N	6020A
Copper	75 - 125	85.384		37.090		43.74	110		6020A
Lead	75 - 125	104.940		22.728		87.48	94		6020A
Manganese		2537.68		3946.54		87.48	-1610		6020A
Zinc	75 - 125	217.14		155.27		87.48	71	N	6020A

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -
POST SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: WATER

Sample Name: BF-1A **Lab Code:** K1508581-001A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	80 - 120	62.60		12.51		50.0	100		6020A
Cadmium	80 - 120	48.114		1.379		50.0	93		6020A
Chromium	80 - 120	132.02		33.03		100.0	99		6020A
Copper	80 - 120	105.57		8.83		100.0	97		6020A
Lead	80 - 120	98.275		54.093		50.0	88		6020A
Manganese	80 - 120	1045.41		939.27		100.0	106		6020A
Zinc	80 - 120	140.70		36.95		100.0	104		6020A

Metals

- 6 -

DUPLICATES

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Units:** MG/KG

Project Name: Evraz-Oregon Steel **Basis:** DRY

Matrix: SOIL **% Solids:** 93.7

Sample Name: BF-1D **Lab Code:** K1508581-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	20	5.26		7.21		31.3	*	6020A
Cadmium	20	0.580		0.450		25.2	*	6020A
Chromium	20	138.76		123.77		11.4		6020A
Copper	20	37.09		29.77		21.9	*	6020A
Lead	20	22.728		23.161		1.9		6020A
Manganese	20	3946.54		2385.29		49.3	*	6020A
Zinc	20	155.27		140.43		10.0		6020A

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

Aqueous LCS Source: **Solid LCS Source:** **ERA D080-540**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				99.6	102.9	69	131	103
Cadmium				182.0	181.8	74	126	100
Chromium				136.0	136.9	70	130	101
Copper				102.0	100.6	74	126	99
Lead				115.0	114.8	72	129	100
Manganese				323.0	322.7	75	125	100
Zinc				161.0	155.1	81	119	96

Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Units:** UG/L

Project Name: Evraz-Oregon Steel

Sample Name: BF-1L **Lab Code:** K1508581-001L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	12.51		12.74		2		MS
Cadmium	1.38		1.57		14	E	MS
Chromium	33.03		32.21		2		MS
Copper	8.83		9.03		2		MS
Lead	54.09		56.88		5		MS
Manganese	939.27		940.62		0		MS
Zinc	36.95		38.43		4		MS

Metals

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DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

ICP/ICP-MS ID #: **K-ICP-MS-04**

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		1.00	0.12	MS
Cadmium	111		0.040	0.010	MS
Chromium	52		0.40	0.06	MS
Copper	65		0.20	0.04	MS
Lead	208		0.100	0.010	MS
Manganese	55		0.10	0.04	MS
Zinc	66		1.00	0.20	MS

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

ICP ID Number: **K-ICP-MS-04**

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	45.000	3000	6020A
Cadmium	45.000	3000	6020A
Chromium	45.000	3000	6020A
Copper	45.000	3000	6020A
Lead	45.000	3000	6020A
Manganese	45.000	3000	6020A
Zinc	45.000	3000	6020A

Comments:

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630

Project Name: Evraz-Oregon Steel

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1508581-001	8/21/2015	1.27	100.0
K1508581-001D	8/21/2015	1.23	100.0
K1508581-001S	8/21/2015	1.22	100.0
K1508581-002	8/21/2015	1.25	100.0
KQ1509275-13	8/21/2015	1.04	100.0
KQ1509275-14	8/21/2015	1.00	100.0

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Run Number:** 082415d

Project Name: Evraz-Oregon Steel

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/24/2015 **End Date:** 8/24/2015

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	18:21				X			X						X												
Standard 1	1.0	18:26				X			X						X												
ICV1	1.0	18:30				X			X						X												
CCV1	1.0	18:34				X			X						X												
ICB1	1.0	18:40				X			X						X												
CCB1	1.0	18:45				X			X						X												
LLICVS	1.0	18:49				X			X						X												
ZZZZZZ	1.0	18:53																									
ICS-A1	1.0	18:58				X			X						X												
ICS-AB1	1.0	19:02				X			X						X												
KQ1509275-14	5.0	19:07				X			X						X												
K1508581-001	5.0	19:11				X			X						X												
K1508581-001D	5.0	19:16				X			X						X												
K1508581-001L	5.0	19:20				X			X						X												
K1508581-001A	5.0	19:25				X			X						X												
K1508581-001S	5.0	19:29				X			X						X												
KQ1509275-13	20.0	19:34				X			X						X												
K1508581-002	5.0	19:38				X			X						X												
ZZZZZZ	5.0	19:43																									
CCV2	1.0	19:47				X			X						X												
CCB2	1.0	19:52				X			X						X												
ZZZZZZ	5.0	19:56																									
ZZZZZZ	5.0	20:01																									
ZZZZZZ	5.0	20:05																									
ZZZZZZ	5.0	20:09																									
ZZZZZZ	5.0	20:14																									
ZZZZZZ	5.0	20:18																									
ZZZZZZ	5.0	20:23																									
ZZZZZZ	5.0	20:27																									
ZZZZZZ	5.0	20:32																									
ZZZZZZ	5.0	20:36																									
CCV3	1.0	20:41				X			X						X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Run Number:** 082415d

Project Name: Evraz-Oregon Steel

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/24/2015 **End Date:** 8/24/2015

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	20:45																									
CCB3	1.0	20:50				X			X						X												
ZZZZZZ	1.0	20:54																									
LLCCVS1	1.0	20:58				X			X						X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1508581

Project No.: C1144-0630 **Run Number:** 082515a

Project Name: Evraz-Oregon Steel

Instrument ID Number: K-ICP-MS-04 **Method:** MS

Start Date: 8/25/2015 **End Date:** 8/25/2015

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	10:39									X		X				X									X	
Standard 1	1.0	10:43									X		X				X									X	
ICV1	1.0	10:48									X		X				X									X	
CCV1	1.0	10:52									X		X				X									X	
ICB1	1.0	10:57									X		X				X									X	
CCB1	1.0	11:01									X		X				X									X	
LLICVS1	1.0	11:05									X		X				X									X	
ICS-A1	1.0	11:17									X		X				X									X	
ICS-AB1	1.0	11:21									X		X				X									X	
KQ1509275-14	5.0	11:27									X		X				X									X	
K1508581-001	50.0	11:32									X		X				X									X	
K1508581-001D	50.0	11:36									X		X				X									X	
K1508581-001L	5.0	11:41									X		X				X									X	
K1508581-001A	50.0	11:45									X		X				X									X	
K1508581-001S	50.0	11:50									X		X				X									X	
KQ1509275-13	20.0	11:54									X		X				X									X	
K1508581-002	50.0	11:59									X		X				X									X	
ZZZZZZ	50.0	12:03																									
ZZZZZZ	50.0	12:08																									
CCV2	1.0	12:12									X		X				X									X	
CCB2	1.0	12:17									X		X				X									X	
ZZZZZZ	50.0	12:21																									
ZZZZZZ	5.0	12:26																									
ZZZZZZ	50.0	12:30																									
ZZZZZZ	50.0	12:35																									
ZZZZZZ	50.0	12:39																									
CCV3	1.0	12:44									X		X				X									X	
CCB3	1.0	12:48									X		X				X									X	
LLCCVS1	1.0	12:52									X		X				X									X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1508581

ICP-MS Instrument ID: K-ICP-MS-04 Start Date: 08/24/2015 End Date: 08/24/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge-K2_72	Q	Element In-K2_115	Q	Element Lu-K2_175	Q	Element	Q	Element	Q	Element	Q
Blank	Blank	1821	100		100		100							
Standard 1	Standard 1	1826	101		100		102							
ICV1	ICV	1830	97		97		99							
CCV1	CCV	1834	96		96		99							
ICB1	ICB	1840	100		98		101							
CCB1	CCB	1845	96		94		97							
LLICVS	LLICVS	1849	96		96		98							
ZZZZZZ	ZZZZZZ	1853												
ICS-A1	ICSA	1858	91		91		95							
ICS-AB1	ICSAB	1902	90		89		95							
KQ1509275-14	Method Blank	1907	102		97		100							
K1508581-001	BF-1	1911	94		92		99							
K1508581-001D	BF-1D	1916	95		91		98							
K1508581-001L	BF-1L	1920	101		97		102							
K1508581-001A	BF-1A	1925	93		92		98							
K1508581-001S	BF-1S	1929	91		91		97							
KQ1509275-13	Lab Control	1934	98		95		100							
K1508581-002	BF-2	1938	84		86		92							
ZZZZZZ	ZZZZZZ	1943												
CCV2	CCV	1947	96		93		98							
CCB2	CCB	1952	92		89		94							
ZZZZZZ	ZZZZZZ	1956												
ZZZZZZ	ZZZZZZ	2001												
ZZZZZZ	ZZZZZZ	2005												
ZZZZZZ	ZZZZZZ	2009												
ZZZZZZ	ZZZZZZ	2014												
ZZZZZZ	ZZZZZZ	2018												
ZZZZZZ	ZZZZZZ	2023												
ZZZZZZ	ZZZZZZ	2027												
ZZZZZZ	ZZZZZZ	2032												
ZZZZZZ	ZZZZZZ	2036												
CCV3	CCV	2041	98		92		95							
ZZZZZZ	ZZZZZZ	2045												
CCB3	CCB	2050	97		93		95							
ZZZZZZ	ZZZZZZ	2054												
LLCCVS1	LLCCVS1	2058	96		92		95							

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract: C1144-0630

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1508581

ICP-MS Instrument ID: K-ICP-MS-04 Start Date: 08/25/2015 End Date: 08/25/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Li-S1_6	Q	Element Ge-K3_72	Q	Element	Q	Element	Q	Element	Q	Element	Q
Blank	Blank	1039	100		100									
Standard 1	Standard 1	1043	97		107									
ICV1	ICV	1048	97		106									
CCV1	CCV	1052	95		105									
ICB1	ICB	1057	95		104									
CCB1	CCB	1101	90		100									
LLICVS1	LLICVS1	1105	90		103									
ICS-A1	ICSA	1117	88		105									
ICS-AB1	ICSAB	1121	86		97									
KQ1509275-14	Method Blank	1127	94		110									
K1508581-001	BF-1	1132	100		110									
K1508581-001D	BF-1D	1136	100		112									
K1508581-001L	BF-1L	1141	98		110									
K1508581-001A	BF-1A	1145	99		112									
K1508581-001S	BF-1S	1150	99		112									
KQ1509275-13	Lab Control	1154	102		109									
K1508581-002	BF-2	1159	98		112									
ZZZZZZ	ZZZZZZ	1203												
ZZZZZZ	ZZZZZZ	1208												
CCV2	CCV	1212	99		109									
CCB2	CCB	1217	98		102									
ZZZZZZ	ZZZZZZ	1221												
ZZZZZZ	ZZZZZZ	1226												
ZZZZZZ	ZZZZZZ	1230												
ZZZZZZ	ZZZZZZ	1235												
ZZZZZZ	ZZZZZZ	1239												
CCV3	CCV	1244	100		111									
CCB3	CCB	1248	103		107									
LLCCVS1	LLCCVS1	1252	103		110									

FORM XV-IN

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BF-1	K1508581-001	08/03/2015	08/06/2015
BF-2	K1508581-002	08/05/2015	08/06/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/03/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-1	**Units:**	ug/Kg
Lab Code:	K1508581-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	27	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1221	ND	U	54	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1232	ND	U	27	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1242	ND	U	27	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1248	**1300**	D	110	42	20	08/17/15	08/28/15	KWG1507646	
Aroclor 1254	**1100**	D	27	11	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1260	ND	Ui	140	140	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1262	ND	Ui	68	68	5	08/17/15	08/26/15	KWG1507646	
Aroclor 1268	ND	Ui	38	38	5	08/17/15	08/26/15	KWG1507646	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	91	43-148	08/26/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/05/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-2	**Units:**	ug/Kg
Lab Code:	K1508581-002	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1221	ND	U	110	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1232	ND	U	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1242	ND	U	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1248	**860**	D	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1254	**940**	D	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1260	**530**	D	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1262	ND	U	55	21	10	08/13/15	08/24/15	KWG1507505	
Aroclor 1268	ND	U	55	21	10	08/13/15	08/24/15	KWG1507505	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	65	43-148	08/24/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1507505-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1221	ND	U	9.9	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1232	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1242	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1248	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1254	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1260	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1262	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	
Aroclor 1268	ND	U	5.0	2.1	1	08/13/15	08/20/15	KWG1507505	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	70	43-148	08/20/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1507646-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1221	ND	U	9.9	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1232	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1242	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1248	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1254	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1260	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1262	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	
Aroclor 1268	ND	U	5.0	2.1	1	08/17/15	08/25/15	KWG1507646	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	88	43-148	08/25/15	Acceptable

Comments:

QA/QC Report

Client: Integral Consulting, Incorporated
Service Request: K1508581
Project: Evraz-Oregon Steel/C1144-0630
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Units: Percent
Analysis Method: 8082A
Level: Low

Sample Name	Lab Code	Sur1
BF-1	K1508581-001	91 D
BF-2	K1508581-002	65 D
Batch QC	K1508582-001	114 D
Batch QC	K1508684-001	59
Method Blank	KWG1507505-4	70
Method Blank	KWG1507646-4	88
Batch QCMS	KWG1507505-1	79
Batch QCDMS	KWG1507505-2	75
Batch QCMS	KWG1507646-1	105 D
Batch QCDMS	KWG1507646-2	81 D
Lab Control Sample	KWG1507505-3	83
Lab Control Sample	KWG1507646-3	76

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/13/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/20/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1508684-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507505

		Batch QCMS KWG1507505-1 Matrix Spike			Batch QCDMS KWG1507505-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	156	228	69	155	229	68	23-145	1	40
Aroclor 1260	ND	175	228	77	167	229	73	24-148	5	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/26/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1508582-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

		Batch QCMS KWG1507646-1 Matrix Spike			Batch QCDMS KWG1507646-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	199	138	143	183	139	132	23-145	8	40
Aroclor 1260	1100	1120	138	2 #	857	139	-191 #	24-148	27	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/13/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/20/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1507505

	Lab Control Sample KWG1507505-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	143	200	71	42-122
Aroclor 1260	168	200	84	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1507646

	Lab Control Sample KWG1507646-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	137	200	69	42-122
Aroclor 1260	154	200	77	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/13/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/20/2015
		Time Analyzed:	18:58

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1507505-4	**File ID:**	J:\GC27\DATA\082015.B\0820F022.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507505

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1507505-3	J:\GC27\DATA\082015.B\0820F021.D	08/20/15	18:34
Batch QC	K1508684-001	J:\GC27\DATA\082015.B\0820F024.D	08/20/15	19:44
Batch QCMS	KWG1507505-1	J:\GC27\DATA\082015.B\0820F025.D	08/20/15	20:08
Batch QCDMS	KWG1507505-2	J:\GC27\DATA\082015.B\0820F026.D	08/20/15	20:31
BF-2	K1508581-002	J:\GC27\DATA\082415.B\0824F007.D	08/24/15	11:38

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015
		Time Analyzed:	13:01

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1507646-4	**File ID:**	J:\GC27\DATA\082515.B\0825F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1507646-3	J:\GC27\DATA\082515.B\0825F005.D	08/25/15	12:38
BF-1	K1508581-001	J:\GC27\DATA\082615.B\0826F021.D	08/26/15	20:41
Batch QC	K1508582-001	J:\GC27\DATA\082615.B\0826F022.D	08/26/15	21:04
Batch QCMS	KWG1507646-1	J:\GC27\DATA\082615.B\0826F023.D	08/26/15	21:28
Batch QCDMS	KWG1507646-2	J:\GC27\DATA\082615.B\0826F024.D	08/26/15	21:51
BF-1	K1508581-001	J:\GC27\DATA\082815.B\0828F005.D	08/28/15	14:13
Batch QC	K1508582-001	J:\GC27\DATA\082815.B\0828F006.D	08/28/15	14:37

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/13/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/20/2015
		Time Analyzed:	18:34

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1507505-3	**File ID:**	J:\GC27\DATA\082015.B\0820F021.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507505

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1507505-4	J:\GC27\DATA\082015.B\0820F022.D	08/20/15	18:58
Batch QC	K1508684-001	J:\GC27\DATA\082015.B\0820F024.D	08/20/15	19:44
Batch QCMS	KWG1507505-1	J:\GC27\DATA\082015.B\0820F025.D	08/20/15	20:08
Batch QCDMS	KWG1507505-2	J:\GC27\DATA\082015.B\0820F026.D	08/20/15	20:31
BF-2	K1508581-002	J:\GC27\DATA\082415.B\0824F007.D	08/24/15	11:38

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Extracted:**	08/17/2015
Sample Matrix:	Soil	**Date Analyzed:**	08/25/2015
		Time Analyzed:	12:38

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1507646-3	**File ID:**	J:\GC27\DATA\082515.B\0825F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1507646

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1507646-4	J:\GC27\DATA\082515.B\0825F006.D	08/25/15	13:01
BF-1	K1508581-001	J:\GC27\DATA\082615.B\0826F021.D	08/26/15	20:41
Batch QC	K1508582-001	J:\GC27\DATA\082615.B\0826F022.D	08/26/15	21:04
Batch QCMS	KWG1507646-1	J:\GC27\DATA\082615.B\0826F023.D	08/26/15	21:28
Batch QCDMS	KWG1507646-2	J:\GC27\DATA\082615.B\0826F024.D	08/26/15	21:51
BF-1	K1508581-001	J:\GC27\DATA\082815.B\0828F005.D	08/28/15	14:13
Batch QC	K1508582-001	J:\GC27\DATA\082815.B\0828F006.D	08/28/15	14:37

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630
Service Request: K1508581
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-XLB

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/20/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508035
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F019.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	166000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	510	3590	3670	2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	510	3000	3060	2	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9030	-9	NA	± 100	AverageRF
Aroclor 1016 {4}	500	470	4960	4670	-6	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4770	-8	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	7920	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8150	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18700	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14500	3	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/20/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508035
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F019.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	82400	0	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1570	-15	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2080	-14	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2410	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1820	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1780	-17	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-17	± 20	NA
Aroclor 1260 {1}	500	450	2210	1990	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3690	-3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3530	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8470	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5670	1	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/20/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508035
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F029.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	161000	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	3590	3470	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2840	-5	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	9890	8200	-17	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4430	-11	NA	± 100	AverageRF
Aroclor 1016 {5}	500	440	5180	4540	-12	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	450	9850	8900	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7850	-3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7930	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18200	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14200	0	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/20/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508035
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F029.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift		Criteria	Curve Fit
Decachlorobiphenyl	50	48	82400	79800	-3	NA		± 20	AverageRF
Aroclor 1016 {1}	500	400	1840	1460	-21	NA		± 100	AverageRF
Aroclor 1016 {2}	500	400	2430	1960	-19	NA		± 100	AverageRF
Aroclor 1016 {3}	500	380	3000	2290	-24	NA		± 100	AverageRF
Aroclor 1016 {4}	500	390	2200	1710	-22	NA		± 100	AverageRF
Aroclor 1016 {5}	500	390	2160	1690	-22	NA		± 100	AverageRF
Aroclor 1016	500	390	NA	NA	NA	-22	*	± 20	NA
Aroclor 1260 {1}	500	440	2210	1940	-12	NA		± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3590	-5	NA		± 100	AverageRF
Aroclor 1260 {3}	500	470	3610	3380	-6	NA		± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8240	-5	NA		± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5490	-2	NA		± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-6		± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/24/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508004
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	163000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	3590	3460	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2960	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8740	-12	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4610	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4690	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-7	± 20	NA
Aroclor 1260 {1}	500	460	9850	9050	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	7920	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8090	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18300	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14200	0	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/24/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508004
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	49	82400	80500	-2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	420	1840	1530	-17	NA	± 100	AverageRF
Aroclor 1016 {2}	500	400	2430	1960	-19	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2430	-19	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1760	-20	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1720	-20	NA	± 100	AverageRF
Aroclor 1016	500	400	NA	NA	NA	-19	± 20	NA
Aroclor 1260 {1}	500	450	2210	1980	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3590	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3440	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8290	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5670	2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/24/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508004
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F008.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	163000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3390	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2800	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8700	-12	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4400	-11	NA	± 100	AverageRF
Aroclor 1016 {5}	500	440	5180	4560	-12	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	450	9850	8870	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7850	-3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7970	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18200	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14100	0	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/24/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508004
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F008.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81800	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1580	-14	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2110	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2410	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	2200	1820	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1780	-17	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-16	± 20	NA
Aroclor 1260 {1}	500	450	2210	1980	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3670	-3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3510	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8440	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5550	-1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	160000	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3410	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2790	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8650	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4330	-13	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4470	-14	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	440	9850	8710	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7690	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7830	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	17900	-5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	14000	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-6	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	49	82400	80500	-2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	420	1840	1540	-16	NA	± 100	AverageRF
Aroclor 1016 {2}	500	420	2430	2050	-16	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2390	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1780	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-18	± 20	NA
Aroclor 1260 {1}	500	440	2210	1960	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3590	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3460	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8320	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5620	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F013.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	165000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3390	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2820	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8630	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4480	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4650	-10	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	8010	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8170	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/25/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508064
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F013.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81500	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1490	-19	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	1990	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	390	3000	2350	-22	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1760	-20	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	400	NA	NA	NA	-20	± 20	NA
Aroclor 1260 {1}	500	440	2210	1950	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3640	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3430	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	8630	8320	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5500	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F019.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	161000	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	3590	3220	-10	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	3000	2710	-9	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	9890	8190	-17	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	4960	4200	-15	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	5180	4340	-16	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-14	± 20	NA
Aroclor 1260 {1}	500	430	9850	8520	-14	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7600	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7710	-6	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18000	-4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	13900	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-6	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F019.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81900	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1590	-14	NA	± 100	AverageRF
Aroclor 1016 {2}	500	440	2430	2120	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1820	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1790	-17	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-16	± 20	NA
Aroclor 1260 {1}	500	450	2210	1980	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3600	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3430	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8410	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5480	-2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F025.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	167000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3500	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2840	-5	NA	± 100	AverageRF
Aroclor 1016 {3}	500	470	9890	9230	-7	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4500	-9	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4650	-10	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-7	± 20	NA
Aroclor 1260 {1}	500	470	9850	9170	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	7990	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8130	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/26/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508158
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F025.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	83500	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	440	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2170	-11	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1870	-15	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	2160	1830	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-14	± 20	NA
Aroclor 1260 {1}	500	460	2210	2040	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	3780	3800	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3540	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8580	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5670	1	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	166000	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	3590	3600	0	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2960	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9140	-8	NA	± 100	AverageRF
Aroclor 1016 {4}	500	480	4960	4720	-5	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4790	-7	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	470	9850	9180	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8080	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8160	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18700	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14500	2	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81700	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1520	-17	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	2010	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2390	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1780	-19	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	410	NA	NA	NA	-19	± 20	NA
Aroclor 1260 {1}	500	450	2210	1960	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3630	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3460	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8400	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5630	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F015.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	167000	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3550	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	3000	3010	0	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9020	-9	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4600	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4700	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	460	9850	9120	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	8110	8020	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8180	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14600	3	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630

Service Request: K1508581
Date Analyzed: 08/28/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508233
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F015.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81700	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	410	1840	1510	-18	NA	± 100	AverageRF
Aroclor 1016 {2}	500	410	2430	1990	-18	NA	± 100	AverageRF
Aroclor 1016 {3}	500	390	3000	2330	-22	NA	± 100	AverageRF
Aroclor 1016 {4}	500	400	2200	1760	-20	NA	± 100	AverageRF
Aroclor 1016 {5}	500	400	2160	1730	-20	NA	± 100	AverageRF
Aroclor 1016	500	400	NA	NA	NA	-20	± 20	NA
Aroclor 1260 {1}	500	440	2210	1930	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	3780	3570	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3450	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8410	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	5590	5480	-2	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508004
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0824F003.D	Continuing Calibration Verification	KWG1508004-1	8/24/2015	10:03		8/24/2015	10:03
0824F004.D	Instrument Blank	KWG1508004-2	8/24/2015	10:27		8/24/2015	10:27
0824F005.D	ZZZZZZ	ZZZZZZ	8/24/2015	10:51		8/24/2015	10:51
0824F006.D	ZZZZZZ	ZZZZZZ	8/24/2015	11:14		8/24/2015	11:14
0824F007.D	BF-2	K1508581-002	8/24/2015	11:38		8/24/2015	11:38
0824F008.D	Continuing Calibration Verification	KWG1508004-3	8/24/2015	12:01		8/24/2015	12:01
0824F009.D	Instrument Blank	KWG1508004-4	8/24/2015	12:24		8/24/2015	12:24

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508035
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0820F003.D	Continuing Calibration Verification	KWG1508035-1	8/20/2015	11:33		8/20/2015	11:33
0820F004.D	Instrument Blank	KWG1508035-2	8/20/2015	11:57		8/20/2015	11:57
0820F005.D	ZZZZZZ	ZZZZZZ	8/20/2015	12:20		8/20/2015	12:20
0820F006.D	ZZZZZZ	ZZZZZZ	8/20/2015	12:43		8/20/2015	12:43
0820F007.D	Continuing Calibration Verification	KWG1508035-3	8/20/2015	13:07		8/20/2015	13:07
0820F008.D	Instrument Blank	KWG1508035-4	8/20/2015	13:30		8/20/2015	13:30
0820F009.D	Continuing Calibration Verification	KWG1508035-5	8/20/2015	13:54		8/20/2015	13:54
0820F010.D	Instrument Blank	KWG1508035-6	8/20/2015	14:17		8/20/2015	14:17
0820F011.D	ZZZZZZ	ZZZZZZ	8/20/2015	14:40		8/20/2015	14:40
0820F012.D	ZZZZZZ	ZZZZZZ	8/20/2015	15:04		8/20/2015	15:04
0820F013.D	ZZZZZZ	ZZZZZZ	8/20/2015	15:27		8/20/2015	15:27
0820F014.D	ZZZZZZ	ZZZZZZ	8/20/2015	15:51		8/20/2015	15:51
0820F015.D	ZZZZZZ	ZZZZZZ	8/20/2015	16:14		8/20/2015	16:14
0820F016.D	ZZZZZZ	ZZZZZZ	8/20/2015	16:37		8/20/2015	16:37
0820F017.D	Continuing Calibration Verification	KWG1508035-7	8/20/2015	17:01		8/20/2015	17:01
0820F018.D	Instrument Blank	KWG1508035-8	8/20/2015	17:24		8/20/2015	17:24
0820F019.D	Continuing Calibration Verification	KWG1508035-9	8/20/2015	17:48		8/20/2015	17:48
0820F020.D	Instrument Blank	KWG1508035-10	8/20/2015	18:11		8/20/2015	18:11
0820F021.D	Lab Control Sample	KWG1507505-3	8/20/2015	18:34		8/20/2015	18:34
0820F022.D	Method Blank	KWG1507505-4	8/20/2015	18:58		8/20/2015	18:58
0820F024.D	Batch QC	K1508684-001	8/20/2015	19:44		8/20/2015	19:44
0820F025.D	Batch QCMS	KWG1507505-1	8/20/2015	20:08		8/20/2015	20:08
0820F026.D	Batch QCDMS	KWG1507505-2	8/20/2015	20:31		8/20/2015	20:31
0820F029.D	Continuing Calibration Verification	KWG1508035-11	8/20/2015	21:41		8/20/2015	21:41
0820F030.D	Instrument Blank	KWG1508035-12	8/20/2015	22:05		8/20/2015	22:05

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508064
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0825F003.D	Continuing Calibration Verification	KWG1508064-1	8/25/2015	11:51		8/25/2015	11:51
0825F004.D	Instrument Blank	KWG1508064-2	8/25/2015	12:14		8/25/2015	12:14
0825F005.D	Lab Control Sample	KWG1507646-3	8/25/2015	12:38		8/25/2015	12:38
0825F006.D	Method Blank	KWG1507646-4	8/25/2015	13:01		8/25/2015	13:01
0825F011.D	ZZZZZZ	ZZZZZZ	8/25/2015	14:59		8/25/2015	14:59
0825F012.D	ZZZZZZ	ZZZZZZ	8/25/2015	15:23		8/25/2015	15:23
0825F013.D	Continuing Calibration Verification	KWG1508064-3	8/25/2015	15:46		8/25/2015	15:46
0825F014.D	Instrument Blank	KWG1508064-4	8/25/2015	16:10		8/25/2015	16:10
0825F015.D	ZZZZZZ	ZZZZZZ	8/25/2015	16:33		8/25/2015	16:33
0825F016.D	ZZZZZZ	ZZZZZZ	8/25/2015	16:57		8/25/2015	16:57
0825F017.D	ZZZZZZ	ZZZZZZ	8/25/2015	17:20		8/25/2015	17:20
0825F018.D	ZZZZZZ	ZZZZZZ	8/25/2015	17:44		8/25/2015	17:44
0825F019.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:08		8/25/2015	18:08
0825F020.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:31		8/25/2015	18:31
0825F021.D	ZZZZZZ	ZZZZZZ	8/25/2015	18:55		8/25/2015	18:55
0825F022.D	ZZZZZZ	ZZZZZZ	8/25/2015	19:18		8/25/2015	19:18
0825F027.D	Continuing Calibration Verification	KWG1508064-5	8/25/2015	21:16		8/25/2015	21:16
0825F028.D	Instrument Blank	KWG1508064-6	8/25/2015	21:39		8/25/2015	21:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508158
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0826F003.D	Continuing Calibration Verification	KWG1508158-1	8/26/2015	13:36		8/26/2015	13:36
0826F004.D	Instrument Blank	KWG1508158-2	8/26/2015	14:00		8/26/2015	14:00
0826F005.D	ZZZZZZ	ZZZZZZ	8/26/2015	14:23		8/26/2015	14:23
0826F006.D	ZZZZZZ	ZZZZZZ	8/26/2015	14:47		8/26/2015	14:47
0826F007.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:11		8/26/2015	15:11
0826F008.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:34		8/26/2015	15:34
0826F009.D	ZZZZZZ	ZZZZZZ	8/26/2015	15:58		8/26/2015	15:58
0826F010.D	ZZZZZZ	ZZZZZZ	8/26/2015	16:21		8/26/2015	16:21
0826F011.D	ZZZZZZ	ZZZZZZ	8/26/2015	16:45		8/26/2015	16:45
0826F012.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:09		8/26/2015	17:09
0826F013.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:32		8/26/2015	17:32
0826F014.D	ZZZZZZ	ZZZZZZ	8/26/2015	17:56		8/26/2015	17:56
0826F015.D	ZZZZZZ	ZZZZZZ	8/26/2015	18:20		8/26/2015	18:20
0826F016.D	ZZZZZZ	ZZZZZZ	8/26/2015	18:43		8/26/2015	18:43
0826F017.D	ZZZZZZ	ZZZZZZ	8/26/2015	19:07		8/26/2015	19:07
0826F018.D	ZZZZZZ	ZZZZZZ	8/26/2015	19:30		8/26/2015	19:30
0826F019.D	Continuing Calibration Verification	KWG1508158-3	8/26/2015	19:54		8/26/2015	19:54
0826F020.D	Instrument Blank	KWG1508158-4	8/26/2015	20:17		8/26/2015	20:17
0826F021.D	BF-1	K1508581-001	8/26/2015	20:41		8/26/2015	20:41
0826F022.D	Batch QC	K1508582-001	8/26/2015	21:04		8/26/2015	21:04
0826F023.D	Batch QCMS	KWG1507646-1	8/26/2015	21:28		8/26/2015	21:28
0826F024.D	Batch QCDMS	KWG1507646-2	8/26/2015	21:51		8/26/2015	21:51
0826F025.D	Continuing Calibration Verification	KWG1508158-5	8/26/2015	22:15		8/26/2015	22:15
0826F026.D	Instrument Blank	KWG1508158-6	8/26/2015	22:38		8/26/2015	22:38

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508233
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0828F003.D	Continuing Calibration Verification	KWG1508233-1	8/28/2015	13:26		8/28/2015	13:26
0828F004.D	Instrument Blank	KWG1508233-2	8/28/2015	13:50		8/28/2015	13:50
0828F005.D	BF-1	K1508581-001	8/28/2015	14:13		8/28/2015	14:13
0828F006.D	Batch QC	K1508582-001	8/28/2015	14:37		8/28/2015	14:37
0828F007.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:00		8/28/2015	15:00
0828F008.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:24		8/28/2015	15:24
0828F009.D	ZZZZZZ	ZZZZZZ	8/28/2015	15:48		8/28/2015	15:48
0828F010.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:11		8/28/2015	16:11
0828F011.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:35		8/28/2015	16:35
0828F012.D	ZZZZZZ	ZZZZZZ	8/28/2015	16:59		8/28/2015	16:59
0828F013.D	ZZZZZZ	ZZZZZZ	8/28/2015	17:22		8/28/2015	17:22
0828F014.D	ZZZZZZ	ZZZZZZ	8/28/2015	17:46		8/28/2015	17:46
0828F015.D	Continuing Calibration Verification	KWG1508233-3	8/28/2015	18:09		8/28/2015	18:09
0828F016.D	Instrument Blank	KWG1508233-4	8/28/2015	18:33		8/28/2015	18:33
0828F017.D	ZZZZZZ	ZZZZZZ	8/28/2015	18:57		8/28/2015	18:57
0828F018.D	ZZZZZZ	ZZZZZZ	8/28/2015	19:20		8/28/2015	19:20
0828F019.D	ZZZZZZ	ZZZZZZ	8/28/2015	19:44		8/28/2015	19:44
0828F020.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:07		8/28/2015	20:07
0828F021.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:31		8/28/2015	20:31
0828F022.D	ZZZZZZ	ZZZZZZ	8/28/2015	20:55		8/28/2015	20:55
0828F023.D	ZZZZZZ	ZZZZZZ	8/28/2015	21:18		8/28/2015	21:18
0828F025.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:05		8/28/2015	22:05
0828F026.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:29		8/28/2015	22:29
0828F027.D	ZZZZZZ	ZZZZZZ	8/28/2015	22:52		8/28/2015	22:52
0828F028.D	ZZZZZZ	ZZZZZZ	8/28/2015	23:16		8/28/2015	23:16
0828F029.D	ZZZZZZ	ZZZZZZ	8/28/2015	23:40		8/28/2015	23:40
0828F030.D	ZZZZZZ	ZZZZZZ	8/29/2015	00:03		8/29/2015	00:03
0828F031.D	Continuing Calibration Verification	KWG1508233-5	8/29/2015	00:27		8/29/2015	00:27
0828F032.D	Instrument Blank	KWG1508233-6	8/29/2015	00:51		8/29/2015	00:51
0828F033.D	ZZZZZZ	ZZZZZZ	8/29/2015	01:14		8/29/2015	01:14
0828F034.D	ZZZZZZ	ZZZZZZ	8/29/2015	01:38		8/29/2015	01:38
0828F035.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:01		8/29/2015	02:01
0828F036.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:25		8/29/2015	02:25
0828F037.D	ZZZZZZ	ZZZZZZ	8/29/2015	02:49		8/29/2015	02:49

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1508581
Project: Evraz-Oregon Steel/C1144-0630

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508233
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0828F038.D	ZZZZZZ	ZZZZZZ	8/29/2015	03:12		8/29/2015	03:12
0828F039.D	ZZZZZZ	ZZZZZZ	8/29/2015	03:36		8/29/2015	03:36
0828F040.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:00		8/29/2015	04:00
0828F041.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:23		8/29/2015	04:23
0828F042.D	ZZZZZZ	ZZZZZZ	8/29/2015	04:47		8/29/2015	04:47
0828F043.D	ZZZZZZ	ZZZZZZ	8/29/2015	05:11		8/29/2015	05:11
0828F044.D	ZZZZZZ	ZZZZZZ	8/29/2015	05:34		8/29/2015	05:34
0828F045.D	Continuing Calibration Verification	KWG1508233-7	8/29/2015	05:58		8/29/2015	05:58
0828F046.D	Instrument Blank	KWG1508233-8	8/29/2015	06:21		8/29/2015	06:21

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630
Sample Matrix: Soil

Service Request: K1508581
Date Extracted: 08/13/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1507505
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-2	K1508581-002	08/05/15	08/06/15	40.206g	4ml	90.7	
Method Blank	KWG1507505-4	NA	NA	40.499g	4ml	NA	
Batch QC	K1508684-001	NA	NA	40.163g	4ml	43.6	
Batch QCMS	KWG1507505-1	NA	NA	40.280g	4ml	43.6	
Batch QCDMS	KWG1507505-2	NA	NA	40.028g	4ml	43.6	
Lab Control Sample	KWG1507505-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz-Oregon Steel/C1144-0630
Sample Matrix: Soil

Service Request: K1508581
Date Extracted: 08/17/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1507646
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-1	K1508581-001	08/03/15	08/06/15	40.143g	4ml	93.7	
BF-1DL	K1508581-001	08/03/15	08/06/15	40.143g	4ml	93.7	
Method Blank	KWG1507646-4	NA	NA	40.441g	4ml	NA	
Batch QC	K1508582-001	NA	NA	30.0864g	4ml	95.9	
Batch QCDL	K1508582-001	NA	NA	30.0864g	4ml	95.9	
Batch QCMS	KWG1507646-1	NA	NA	30.1159g	4ml	95.9	
Batch QCDMS	KWG1507646-2	NA	NA	30.0519g	4ml	95.9	
Lab Control Sample	KWG1507646-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/03/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015
		Date Extracted:	08/17/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-1	**Units:**	ug/Kg
Lab Code:	K1508581-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	110	42	1300	1500	14.3	D	20	08/28/15
Aroclor 1254	27	11	1100	1100	0.0	D	5	08/26/15

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1508581
Project:	Evraz-Oregon Steel/C1144-0630	**Date Collected:**	08/05/2015
Sample Matrix:	Soil	**Date Received:**	08/06/2015
		Date Extracted:	08/13/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-2	**Units:**	ug/Kg
Lab Code:	K1508581-002	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	55	21	860	1200	33.0	D	10	08/24/15
Aroclor 1254	55	21	940	1100	15.7	D	10	08/24/15
Aroclor 1260	55	21	530	550	3.7	D	10	08/24/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

REVISED
2:58 pm, Oct 09, 2015

Benchsheet

Service Request #:	**K1508445, KQ1508774, K1508575, K1508581, K1508595, K1508617, K1508620**	**Run #:**	**457031**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1508445-042	1.30	9.44	6.47	5.17	54.8	
	K1508445-042DUP	1.29	9.81	6.74	5.45	55.6	1
	K1508445-043	1.30	13.61	11.55	10.3	75.3	
	K1508445-044	1.30	5.45	5.86	4.56	83.7	
	K1508445-045	1.29	11.50	9.59	8.30	72.2	
	K1508575-001	1.31	25.58	5.17	3.86	15.1	
	K1508581-001	1.30	11.08	11.68	10.4	93.7	
	K1508581-002	1.31	10.80	11.11	9.80	90.7	
	K1508595-001	1.31	11.70	12.05	10.7	91.8	
	K1508595-002	1.30	10.61	7.86	6.56	61.8	
	K1508617-002	1.31	13.84	2.45	1.14	8.24	
	K1508620-001	1.32	10.44	9.88	8.56	82.0	
	K1508620-001DUP	1.31	10.76	10.30	8.99	83.6	2
	K1508620-002	1.32	11.73	11.90	10.6	90.2	
	K1508620-003	1.30	10.81	10.99	9.69	89.6	
	K1508620-004	1.29	11.07	10.76	9.47	85.5	
	K1508620-005	1.29	12.21	11.75	10.5	85.7	
	K1508620-006	1.29	10.67	7.28	5.99	56.1	
	K1508620-007	1.30	10.13	8.54	7.24	71.5	
	K1508620-008	1.31	10.98	10.96	9.65	87.9	
	K1508620-009	1.30	11.88	11.96	10.7	89.7	
	K1508620-010	1.30	10.78	11.05	9.75	90.4	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	8/10/2015	18:14	8/11/2015	06:55	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	1.00, 100.02	1.00, 100.02	8/10/2015	17:54	8/10/2015	18:14
Calibration2	K-Balance-16	1.00,100.00	1.00,100.02	8/11/2015	07:28	8/11/2015	07:33

Comments: DJM/KL 8/11/15

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1508445, KQ1508774, K1508575, K1508581, K1508595, K1508617, K1508620**	**Run #:**	**457031**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1508445-042	1.30	9.44	6.47	5.17	54.8	
	K1508445-042DUP	1.29	9.81	6.74	5.45	55.6	1
	K1508445-043	1.30	13.61	11.55	10.3	75.3	
	K1508445-044	1.30	5.45	5.86	4.56	83.7	
	K1508445-045	1.29	11.50	9.59	8.30	72.2	
	K1508575-001	1.31	25.58	5.17	3.86	15.1	
	K1508581-001	1.30	11.08	11.68	10.4	93.7	
	K1508581-002	1.31	10.80	11.11	9.80	90.7	
	K1508595-001	1.31	11.70	12.05	10.7	91.8	
	K1508595-002	1.30	10.61	7.86	6.56	61.8	
	K1508617-002	1.31	13.84	2.45	1.14	8.24	
	K1508620-001	1.32	10.44	9.88	8.56	82.0	
	K1508620-001DUP	1.31	10.76	10.30	8.99	83.6	2
	K1508620-002	1.32	11.73	11.90	10.6	90.2	
	K1508620-003	1.30	10.81	10.99	9.69	89.6	
	K1508620-004	1.29	11.07	10.76	9.47	85.5	
	K1508620-005	1.29	12.21	11.75	10.5	85.7	
	K1508620-006	1.29	10.67	7.28	5.99	56.1	
	K1508620-007	1.30	10.13	8.54	7.24	71.5	
	K1508620-008	1.31	10.98	10.96	9.65	87.9	
	K1508620-009	1.30	11.88	11.96	10.7	89.7	
	K1508620-010	1.30	10.78	11.05	9.75	90.4	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	8/10/2015	18:14	8/11/2015	06:55	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	1.00, 100.02	1.00, 100.02	8/10/2015	17:54	8/10/2015	18:14
Calibration2	K-Balance-16	1.00,100.00	1.00,100.02	8/11/2015	07:28	8/11/2015	07:33

Comments: DJM/KL 8/11/15

Preparation Information Benchsheet

Prep Run: 243107
Team: Metals
Analyst: Keith Linn
Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A
Status: Prepped
Current Step: Digestion
Prep Date: 08/21/2015 12:30
Due Date: 08/11/2015
Hold Date: 10/31/2015

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1509275-14	Method Blank		1.00 g		100 mL			10% HN03, 5% HCL
KQ1509275-13	Lab Control Sample		1.04 g	As Received	100 mL	1 g	69665	10% HN03, 5% HCL
K1508581-001	BF-1	.03	1.27 g	As Received	100 mL			10% HN03, 5% HCL
K1508581-001: KQ1509275-03	Duplicate	.03	1.23 g	As Received	100 mL			10% HN03, 5% HCL
K1508581-001: KQ1509275-04	Matrix Spike	.03	1.22 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508581-002	BF-2	.03	1.25 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001	TP-1-080415	.01	1.28 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001: KQ1509275-05	Duplicate	.01	1.29 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-001: KQ1509275-06	Matrix Spike	.01	1.20 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508597-002	TP-2-080415	.01	1.11 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-003	TP-3-080415	.01	1.65 g	As Received	100 mL			10% HN03, 5% HCL
K1508597-004	TP-4-080415	.01	1.43 g	As Received	100 mL			10% HN03, 5% HCL
K1508690-013	SKIP-COMP-TOP	.02	3.17 g	As Received	100 mL			10% HN03, 5% HCL
K1508690-014	SKIP-COMP-NSM	.02	3.09 g	As Received	100 mL			10% HN03, 5% HCL
K1508752-001	Dried Biosolids	.02	1.09 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001	DMMU1-NSM	.04	3.21 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001: KQ1509275-07	Duplicate	.04	3.07 g	As Received	100 mL			10% HN03, 5% HCL
K1508937-001: KQ1509275-08	Matrix Spike	.04	3.13 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508937-001: KQ1509275-09	Duplicate Matrix Spike	.04	3.19 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508937-002	DMMU2-NSM	.04	3.28 g	As Received	100 mL			10% HN03, 5% HCL
K1508964-001	T42 Dike	.02	1.24 g	As Received	100 mL			10% HN03, 5% HCL
K1508964-002	T-1 Dike	.02	1.26 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-001	VMT-DU1-Comp	.07	2.97 g	As Received	100 mL			10% HN03, 5% HCL

K1508970-001: KQ1509275-10	Duplicate	.07	2.87 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-001: KQ1509275-01	Matrix Spike	.07	2.93 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1508970-002	VMT-DU2-Comp	.01	2.93 g	As Received	100 mL			10% HN03, 5% HCL
K1508970-003	VMT-DU3-Comp	.01	3.23 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001	BF-3	.02	1.11 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001: KQ1509275-11	Duplicate	.02	1.12 g	As Received	100 mL			10% HN03, 5% HCL
K1509039-001: KQ1509275-12	Matrix Spike	.02	1.19 g	As Received	100 mL	1 mL 1 mL 1 mL 2 mL	82092 82114 82880 82954	10% HN03, 5% HCL
K1509039-002	BF-7	.02	1.08 g	As Received	100 mL			10% HN03, 5% HCL

31 Total Samples consisting of 18 Client Samples, 11 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SOIL CRM	Spike	69665	7/31/2016	K-MET SS4	Spike	82092	6/23/2016
K-MET SS1	Spike	82954	6/8/2016	K-MET SS5	Spike	82880	4/28/2016
K-MET SS3	Spike	82114	1/14/2016				

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HCL	80595	Digestion	K-MET H2O2	82956
Digestion	K-MET 100ml Centrifuge Tube	81681	Digestion	K-MET HNO3	83195

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-BlockDigester-02	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-02	Thermometer ID 1107973		NONE
Digestion	K-BlockDigester-02	Correction Factor	0	deg C	Digestion	K-BlockDigester-02	Thermometer Location	7	NONE
Digestion	K-BlockDigester-02	Observed Temperature	95	deg C					

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	21-AUG-15 12:30	21-AUG-15 14:45	Keith Linn	Lance Jording	N	

Comments

Initial reflux 15 minutes 1st reflux 40 minutes Hcl reflux 15 minutes

Review

Reviewed by: _____ Date: 8/24/15

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
*** Add after HNO3	Mn	100*	1000ml	50	
and before cas cal	Ni	100*	1000ml	50	
-14	Sb***	50	1000ml	50	
when making the	V	100*	1000ml	50	
solution	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2	Sb	no dilution	-	500	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Rev IV

Service Request # K1508581
Calibration 082415D
QC in calibration 082415D
QC Service Request # K1508581
STARLIMS run # 459163

6020 ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control (+/-10%)	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control (+/-20%)	X		
7. Spike (+/-25%) and duplicate (<20%) in control	X		
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control (70-125%)	X		
11. Interferences checked	X		
12. Se over MRL		X	
13. LLICV run (70-130%)	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB (+/-20%) in control	X		
16. Serial dilution run	X		
17. Post spike in control (+/-20%)	X		
18. Was run stop prematurely, If so why?		X	

Comments: Mn, Zn OR. See dilutions on recal.
High RPD ~~Cr~~ Cu, As, Cd

Report Cr, Cu, Mn, Zn from dilutions on recal.

Primary Review By: M Date: 8/25/15
Secondary Review By: J Date: 8/26/15

R:\icp\misc\data review forms\icpms review form

Data Review Form

Service Request #: **K1508581**
Instrument ID#: **K-ICP-MS-04**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-04 (NexION)\082415d.txt**
RUNNO: **459163**

K1508581-001DUP - Metals T
DUP RPD
6020A/Metals T - As-KED2 - RPD: 31 Limit: 20
6020A/Metals T - Cd-KED2 - RPD: 25 Limit: 20
K1508970-001MS - Metals T
MS Recovery
6020A/Metals T - Cr-KED3 - Recovery: 129 Limits: 75 - 125 - add applicable PDS.
K1509039-001DUP - Metals T
DUP RPD
6020A/Metals T - Cu-KED3 - RPD: 29 Limit: 20
6020A/Metals T - As-KED2 - RPD: 28 Limit: 20
K1509039-001MS - Metals T
MS Recovery
6020A/Metals T - Cu-KED3 - Recovery: 71 Limits: 75 - 125 - PDS in control.

Analytical Method 6020A

Primary Approver: 8/25/15
Secondary Approver: 8/26/15

Dataset Report

User Name: ALKLS.ALKLSXP373
Computer Name: ALKLSXP373
Dataset File Path: C:\NexIONData\DataSet\082415D\
Report Date/Time: Tuesday, August 25, 2015 09:44:39

The Dataset

Sample ID	Date and Time	Read Type	Description	Batch ID	Samp. File Name
Rinse	18:12:35 Mon 24-Aug-15	Sample			C:\NexIONData\DataSet\082415D\Rinse.001
Blank	18:17:04 Mon 24-Aug-15	Blank			C:\NexIONData\DataSet\082415D\Blank.002
Blank	18:21:32 Mon 24-Aug-15	Blank			C:\NexIONData\DataSet\082415D\Blank.003
Standard 1	18:26:00 Mon 24-Aug-15	Standard #1			C:\NexIONData\DataSet\082415D\Standard
ICV	18:30:28 Mon 24-Aug-15	QC Std #1			C:\NexIONData\DataSet\082415D\ICV.005
CCV	18:34:57 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.006
ICB	18:40:22 Mon 24-Aug-15	QC Std #3			C:\NexIONData\DataSet\082415D\ICB.007
CCB	18:45:04 Mon 24-Aug-15	Sample			C:\NexIONData\DataSet\082415D\CCB.008
LLICVS	18:49:33 Mon 24-Aug-15	QC Std #5			C:\NexIONData\DataSet\082415D\LLICVS.0(
~~LLICVS~~	~~18:53:54 Mon 24-Aug-15~~	~~QC Std #5~~	not needed.		C:\NexIONData\DataSet\082415D\LLICVS.0'
ICSA	18:58:22 Mon 24-Aug-15	QC Std #7			C:\NexIONData\DataSet\082415D\ICSA.011
ICSAB	19:02:50 Mon 24-Aug-15	QC Std #8			C:\NexIONData\DataSet\082415D\ICSAB.01:
KQ1509275-14	19:07:20 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\KQ150927
K1508581-001	19:11:48 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001D	19:16:16 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001L	19:20:44 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001A	19:25:12 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508581
K1508581-001S	19:29:39 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
KQ1509275-13	19:34:07 Mon 24-Aug-15	Sample	20		C:\NexIONData\DataSet\082415D\KQ150927
K1508581-002	19:38:35 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508581
K1508597-001	19:43:03 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
CCV	19:47:34 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.022
CCB	19:52:02 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.023
K1508597-001D	19:56:33 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001L	20:01:01 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001A	20:05:29 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508597
K1508597-001S	20:09:57 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-002	20:14:25 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-003	20:18:53 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508597-004	20:23:21 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508597
K1508690-013	20:27:49 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508690
K1508690-014	20:32:17 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508690
K1508752-001	20:36:45 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508752
CCV	20:41:15 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.034
~~CCB~~	~~20:45:43 Mon 24-Aug-15~~	~~QC Std #4~~	Rerun		C:\NexIONData\DataSet\082415D\CCB.035
CCB	20:50:01 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.036
~~LLCCVS~~	~~20:54:29 Mon 24-Aug-15~~	~~QC Std #6~~	Rerun		C:\NexIONData\DataSet\082415D\LLCCVS.0:
LLCCVS	20:58:50 Mon 24-Aug-15	QC Std #6			C:\NexIONData\DataSet\082415D\LLCCVS.0:
K1508937-001	21:03:20 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001D	21:07:48 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001L	21:12:16 Mon 24-Aug-15	Sample	25		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001A	21:16:44 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001S	21:21:12 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-001SD	21:25:40 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508937-002	21:30:08 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508937
K1508964-001	21:34:36 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508964
K1508964-002	21:39:04 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508964
K1508970-001	21:43:31 Mon 24-Aug-15	Sample	5		C:\NexIONData\DataSet\082415D\K1508970
CCV	21:48:01 Mon 24-Aug-15	QC Std #2			C:\NexIONData\DataSet\082415D\CCV.049
CCB	21:52:29 Mon 24-Aug-15	QC Std #4			C:\NexIONData\DataSet\082415D\CCB.050

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K1508970-001D	21:56:59 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970
K1508970-001L	22:01:27 Mon 24-Aug-15	Sample	25	C:\NexION\Data\DataSet\082415D\K1508970
K1508970-001A	22:05:55 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag	C:\NexION\Data\DataSet\082415D\K1508970
K1508970-001S	22:10:23 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970
K1508970-002	22:14:51 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970
K1508970-003	22:19:19 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1508970
K1509039-001	22:23:47 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039
K1509039-001D	22:28:15 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039
K1509039-001L	22:32:43 Mon 24-Aug-15	Sample	25	C:\NexION\Data\DataSet\082415D\K1509039
K1509039-001A	22:37:11 Mon 24-Aug-15	Sample	5 +50ppb +10ppb Ag	C:\NexION\Data\DataSet\082415D\K1509039
CCV	22:41:40 Mon 24-Aug-15	QC Std #2		C:\NexION\Data\DataSet\082415D\CCV.061
CCB	22:46:08 Mon 24-Aug-15	QC Std #4		C:\NexION\Data\DataSet\082415D\CCB.062
LLCCVS	22:50:37 Mon 24-Aug-15	QC Std #6		C:\NexION\Data\DataSet\082415D\LLCCVS.0
K1509039-001S	22:55:06 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039
K1509039-002	22:59:34 Mon 24-Aug-15	Sample	5	C:\NexION\Data\DataSet\082415D\K1509039
MoSTD	23:04:02 Mon 24-Aug-15	Sample	+50ppb	C:\NexION\Data\DataSet\082415D\MoSTD.06
CCV	23:08:32 Mon 24-Aug-15	QC Std #2		C:\NexION\Data\DataSet\082415D\CCV.067
~~CCV~~	~~23:12:40 Mon 24-Aug-15~~	~~QC Std #2~~ not needed		C:\NexION\Data\DataSet\082415D\CCV.068
CCB	23:17:17 Mon 24-Aug-15	QC Std #4		C:\NexION\Data\DataSet\082415D\CCB.069
LLCCVS	23:21:46 Mon 24-Aug-15	QC Std #6		C:\NexION\Data\DataSet\082415D\LLCCVS.0

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SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\NexIONData\Wizard\SmartTune\CAS SmartTune Full FAST.swz

Optimization Status

Start Time: 8/24/2015 10:10:59 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\NexIONData\Method\CAS Tuning.mth.
MassCal File: C:\NexIONData\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.1 for Resolution
Peak height (%) for Res. Opt.: 5

Optimization Results:

Initial Try

Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.734)
Target/Obtained mass (9.0122/8.975), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (58.9332/58.925), Target/Obtained resolution (0.7/0.702)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.693)
Target/Obtained mass (139.905/139.875), Target/Obtained resolution (0.7/0.669)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.690)
Target/Obtained mass (208.98/208.975), Target/Obtained resolution (0.7/0.686)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.705)
Passed] Optimum value(s): N/A

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, August 24, 2015 10:15:33
Sample Description:
Method File: C:\NexION Data\Method\CAS Daily Performance.mth
Dataset File: C:\NexION Data\Dataset\Default\Daily Performance Check.1739
MassCal File: C:\NexION Data\MassCal\Default.tun
Conditions File: C:\NexION Data\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
Li	7.0	36919.3	36919.265	847.255	2.3	Standard
Be	9.0	9731.6	9731.580	102.308	1.1	Standard
Mg	24.0	51913.8	51913.803	1312.107	2.5	Standard
Co	58.9	44385.8	44385.800	847.190	1.9	Standard
In	114.9	101484.8	101484.838	1249.607	1.2	Standard
Pb	208.0	70821.8	70821.829	965.474	1.4	Standard
Bi	209.0	60721.1	60721.053	683.754	1.1	Standard
U	238.1	76449.5	76449.524	1272.740	1.7	Standard
CeO	155.9	1251.0	0.017	0.001	7.3	Standard
Ce	139.9	71804.1	71804.077	1648.689	2.3	Standard
Ce++	70.0	2184.4	0.030	0.000	1.4	Standard
Bkgd	220.0	0.0	0.000	0.000		Standard

Replicates

Repeat 1

Analyte	Mass	Meas. Intensity
Li	7	35508.074
Be	9	9858.734
Mg	24	52931.212
Co	59	44176.198
In	115	99832.279
Pb	208	69593.253
Bi	209	59622.828
U	238	74383.817
CeO	156	1125.378
Ce	140	69285.611
Ce++	70	2114.823
Bkgd	220	0.000

Repeat 2

Analyte	Mass	Meas. Intensity
Li	7	37562.652
Be	9	9799.360
Mg	24	52399.925
Co	59	44081.908
In	115	101788.007
Pb	208	70576.395
Bi	209	61336.059
U	238	77037.827
CeO	156	1150.046
Ce	140	71162.805
Ce++	70	2205.504
Bkgd	220	0.000

Repeat 3

Analyte	Mass	Meas. Intensity
Li	7	36803.346
Be	9	9639.918
Mg	24	49648.792
Co	59	43345.660
In	115	101135.397

Pb	208	70652.414
Bi	209	60596.245
U	238	76078.708
CeO	156	1242.054
Ce	140	72396.313
Ce++	70	2156.163
Bkgd	220	0.000

Repeat 4

Analyte	Mass	Meas. Intensity
Li	7	37184.999
Be	9	9740.653
Mg	24	51982.404
Co	59	44690.461
In	115	101370.387
Pb	208	71019.124
Bi	209	61231.612
U	238	77271.752
CeO	156	1358.065
Ce	140	72602.019
Ce++	70	2207.504
Bkgd	220	0.000

Repeat 5

Analyte	Mass	Meas. Intensity
Li	7	37537.252
Be	9	9619.237
Mg	24	52606.683
Co	59	45634.772
In	115	103298.122
Pb	208	72267.961
Bi	209	60818.520
U	238	77475.518
CeO	156	1379.400
Ce	140	73573.638
Ce++	70	2238.175
Bkgd	220	0.000

Current Conditions File Data

Current Value	Description
0.84	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-11.50	Deflector Voltage
1600.00	ICP RF Power
-1675.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.50	Cell Rod Offset STD [CRO]
8.00	Discriminator Threshold
-3.50	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.84	DRC Mode NEB
-6.50	DRC Mode QRO
-1.50	DRC Mode CRO
-10.00	DRC Mode Cell Entrance/Exit Voltage
3.50	Cell Gas A
0.00	Cell Gas B
280.00	Axial Field Voltage
-15.00	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-40.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

LABWORKS - Summary Report

Sample ID: Blank
Sample Date/Time: Monday, August 24, 2015 18:21:32
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\Blank.003
User Name: RRM
Batch ID:

8/25/15

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	846576.409			ppb
	Be-STD1	9	22.000			ppb
	Mn-STD1	55	2624.911			ppb
	Cr-KED3	52	23.667			ppb
	Cr-KED3	53	62.667			ppb
	Co-KED3	59	8.000			ppb
	Ni-KED3	60	5.333			ppb
	Ni-KED3	62	0.667			ppb
	Cu-KED3	63	58.667			ppb
	Cu-KED3	65	25.667			ppb
	Zn-KED3	66	17.000			ppb
>	Ge-KED3	72	20192.268			ppb
>	Ge-KED2	72	64274.962			ppb
	As-KED2	75	87.000			ppb
>	Ge-KED1	72	346771.697			ppb
	Se-KED1	77	339.337			ppb
	Se-KED1	78	12.403			ppb
	Mo-KED2	95	20.000			ppb
	Mo-KED2	97	11.333			ppb
	Mo-KED2	98	35.562			ppb
	Ag-KED2	107	15.000			ppb
	Ag-KED2	109	17.333			ppb
	Cd-KED2	111	4.333			ppb
	Cd-KED2	114	8.495			ppb
>	In-KED2	115	21825.058			ppb
	Sb-KED2	121	36.667			ppb
	Sb-KED2	123	31.289			ppb
	Ba-KED2	135	9.333			ppb
	Ba-KED2	137	7.000			ppb
>	Lu-KED2	175	84607.153			ppb
	Tl-KED2	203	11.333			ppb
	Tl-KED2	205	32.333			ppb
	Pb-KED2	208	48.000			ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6					
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72					
⌈>	Ge-KED2	72					
⌊	As-KED2	75					
⌈>	Ge-KED1	72					
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115					
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175					
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: Standard 1
Sample Date/Time: Monday, August 24, 2015 18:26:00
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\Standard 1.004
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	862022.520			ppb
	Be-STD1	9	137860.768	25.00000	6.3	ppb
	Mn-STD1	55	648129.044	25.00000	4.3	ppb
	Cr-KED3	52	13586.804	25.00000	8.2	ppb
	Cr-KED3	53	1844.786	25.00000	3.1	ppb
	Co-KED3	59	34005.134	25.00000	2.9	ppb
	Ni-KED3	60	10697.008	25.00000	6.9	ppb
	Ni-KED3	62	1770.776	25.00000	2.3	ppb
	Cu-KED3	63	32314.562	25.00000	2.5	ppb
	Cu-KED3	65	15650.908	25.00000	5.5	ppb
	Zn-KED3	66	2537.225	25.00000	4.0	ppb
>	Ge-KED3	72	20598.514			ppb
>	Ge-KED2	72	64875.668			ppb
	As-KED2	75	3908.868	25.00000	1.6	ppb
>	Ge-KED1	72	359206.139			ppb
	Se-KED1	77	1739.440	25.00000	8.7	ppb
	Se-KED1	78	4821.508	25.00000	4.4	ppb
	Mo-KED2	95	23039.233	25.00000	2.0	ppb
	Mo-KED2	97	14779.644	25.00000	2.8	ppb
	Mo-KED2	98	38362.427	25.00000	1.8	ppb
	Ag-KED2	107	89586.112	25.00000	1.7	ppb
	Ag-KED2	109	86667.448	25.00000	1.2	ppb
	Cd-KED2	111	9358.065	25.00000	1.6	ppb
	Cd-KED2	114	22219.234	25.00000	2.2	ppb
>	In-KED2	115	21739.044			ppb
	Sb-KED2	121	14955.826	25.00000	2.1	ppb
	Sb-KED2	123	12101.135	25.00000	1.8	ppb
	Ba-KED2	135	5638.446	25.00000	2.0	ppb
	Ba-KED2	137	10656.306	25.00000	0.3	ppb
>	Lu-KED2	175	86446.156			ppb
	Tl-KED2	203	74267.921	25.00000	2.2	ppb
	Tl-KED2	205	176818.337	25.00000	2.0	ppb
	Pb-KED2	208	216181.054	25.00000	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6					
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72					
⌈>	Ge-KED2	72					
⌊	As-KED2	75					
⌈>	Ge-KED1	72					
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115					
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175					
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICV
Sample Date/Time: Monday, August 24, 2015 18:30:28
Sample Description:
Autosampler Position: 3
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICV.005
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	844081.235			ppb
	Be-STD1	9	13497.042	2.49062	1.9	ppb
	Mn-STD1	55	644416.342	25.35636	0.8	ppb
	Cr-KED3	52	4976.202	9.12175	10.1	ppb
	Cr-KED3	53	700.017	8.90935	2.0	ppb
	Co-KED3	59	33769.929	24.77894	1.7	ppb
	Ni-KED3	60	9956.138	23.25436	8.4	ppb
	Ni-KED3	62	1673.432	23.63267	10.8	ppb
	Cu-KED3	63	16101.072	12.43190	5.7	ppb
	Cu-KED3	65	7691.073	12.23750	4.9	ppb
	Zn-KED3	66	2423.206	23.86290	8.2	ppb
>	Ge-KED3	72	20640.925			ppb
>	Ge-KED2	72	62151.289			ppb
	As-KED2	75	3781.500	25.26388	2.3	ppb
>	Ge-KED1	72	351179.411			ppb
	Se-KED1	77	1788.112	26.71771	2.7	ppb
	Se-KED1	78	4995.467	26.46755	1.9	ppb
	Mo-KED2	95	22181.208	24.60849	0.7	ppb
	Mo-KED2	97	13939.467	24.11370	3.9	ppb
	Mo-KED2	98	36316.720	24.20154	2.5	ppb
	Ag-KED2	107	42313.279	12.07149	2.9	ppb
	Ag-KED2	109	41448.395	12.22428	3.2	ppb
	Cd-KED2	111	4626.749	12.63425	2.0	ppb
	Cd-KED2	114	10960.126	12.60504	2.5	ppb
>	In-KED2	115	21262.439			ppb
	Sb-KED2	121	14620.145	24.98611	0.8	ppb
	Sb-KED2	123	11619.890	24.54674	1.5	ppb
	Ba-KED2	135	21813.978	99.01875	0.8	ppb
	Ba-KED2	137	41980.595	100.75328	1.1	ppb
>	Lu-KED2	175	83617.011			ppb
	Tl-KED2	203	71721.602	24.95625	1.2	ppb
	Tl-KED2	205	170137.152	24.86604	1.1	ppb
	Pb-KED2	208	216089.720	25.83158	0.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		100			
|	Be-STD1	9	100				
⌊	Mn-STD1	55	101				
⌈	Cr-KED3	52	91				
|	Cr-KED3	53	89				
|	Co-KED3	59	99				
|	Ni-KED3	60	93				
|	Ni-KED3	62	95				
|	Cu-KED3	63	99				
|	Cu-KED3	65	98				
|	Zn-KED3	66	95				
⌊>	Ge-KED3	72		102			
⌈>	Ge-KED2	72		97			
⌊	As-KED2	75	101				
⌈>	Ge-KED1	72		101			
|	Se-KED1	77	107				
⌊	Se-KED1	78	106				
⌈	Mo-KED2	95	98				
|	Mo-KED2	97	96				
|	Mo-KED2	98	97				
|	Ag-KED2	107	97				
|	Ag-KED2	109	98				
|	Cd-KED2	111	101				
|	Cd-KED2	114	101				
|>	In-KED2	115		97			
|	Sb-KED2	121	100				
|	Sb-KED2	123	98				
|	Ba-KED2	135	99				
⌊	Ba-KED2	137	101				
⌈>	Lu-KED2	175		99			
|	Tl-KED2	203	100				
|	Tl-KED2	205	99				
⌊	Pb-KED2	208	103				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 18:34:57
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\CCV.006
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	920369.088			ppb
	Be-STD1	9	145614.857	24.68103	4.3	ppb
	Mn-STD1	55	696642.897	25.15875	2.5	ppb
	Cr-KED3	52	12137.155	22.73648	9.2	ppb
	Cr-KED3	53	1590.756	21.82195	10.4	ppb
	Co-KED3	59	32532.043	24.32139	3.6	ppb
	Ni-KED3	60	9832.722	23.43532	12.2	ppb
	Ni-KED3	62	1576.087	22.58661	4.2	ppb
	Cu-KED3	63	29873.957	23.50084	5.4	ppb
	Cu-KED3	65	15163.711	24.65404	7.3	ppb
	Zn-KED3	66	2286.850	22.94906	9.2	ppb
>	Ge-KED3	72	20289.784			ppb
>	Ge-KED2	72	61393.649			ppb
	As-KED2	75	3693.478	24.96045	2.4	ppb
>	Ge-KED1	72	369777.209			ppb
	Se-KED1	77	1827.451	25.73252	1.1	ppb
	Se-KED1	78	4910.791	24.72159	2.9	ppb
	Mo-KED2	95	22002.938	24.90708	1.6	ppb
	Mo-KED2	97	13924.786	24.57245	2.2	ppb
	Mo-KED2	98	36149.120	24.57920	2.6	ppb
	Ag-KED2	107	83761.865	24.38933	1.0	ppb
	Ag-KED2	109	80095.271	24.10564	1.7	ppb
	Cd-KED2	111	8932.126	24.89733	1.6	ppb
	Cd-KED2	114	20696.338	24.29318	0.4	ppb
>	In-KED2	115	20835.952			ppb
	Sb-KED2	121	14520.045	25.32053	1.8	ppb
	Sb-KED2	123	11449.842	24.67860	1.2	ppb
	Ba-KED2	135	5248.964	24.28208	0.4	ppb
	Ba-KED2	137	10078.555	24.66899	1.5	ppb
>	Lu-KED2	175	83584.144			ppb
	Tl-KED2	203	72076.033	25.08897	0.6	ppb
	Tl-KED2	205	172825.788	25.26789	0.3	ppb
	Pb-KED2	208	212410.345	25.40091	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		109		
|	Be-STD1	9	99			
⌊	Mn-STD1	55	101			
⌈	Cr-KED3	52	91			
|	Cr-KED3	53	87			
|	Co-KED3	59	97			
|	Ni-KED3	60	94			
|	Ni-KED3	62	90			
|	Cu-KED3	63	94			
|	Cu-KED3	65	99			
|	Zn-KED3	66	92			
⌊>	Ge-KED3	72		100		
⌈>	Ge-KED2	72		96		
⌊	As-KED2	75	100			
⌈>	Ge-KED1	72		107		
|	Se-KED1	77	103			
⌊	Se-KED1	78	99			
⌈	Mo-KED2	95	100			
|	Mo-KED2	97	98			
|	Mo-KED2	98	98			
|	Ag-KED2	107	98			
|	Ag-KED2	109	96			
|	Cd-KED2	111	100			
|	Cd-KED2	114	97			
|>	In-KED2	115		95		
|	Sb-KED2	121	101			
|	Sb-KED2	123	99			
|	Ba-KED2	135	97			
⌊	Ba-KED2	137	99			
⌈>	Lu-KED2	175		99		
|	Tl-KED2	203	100			
|	Tl-KED2	205	101			
⌊	Pb-KED2	208	102			

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 2	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: ICB
Sample Date/Time: Monday, August 24, 2015 18:40:22
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICB.007
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	865989.397			ppb
	Be-STD1	9	14.000	-0.00153	48.5	ppb
	Mn-STD1	55	2158.830	-0.02025	20.7	ppb
	Cr-KED3	52	16.667	-0.01370	25.8	ppb
	Cr-KED3	53	61.333	-0.04010	593.0	ppb
	Co-KED3	59	5.333	-0.00209	48.9	ppb
	Ni-KED3	60	3.000	-0.00576	78.1	ppb
	Ni-KED3	62	1.333	0.00907	178.4	ppb
	Cu-KED3	63	24.667	-0.02731	10.6	ppb
	Cu-KED3	65	15.333	-0.01733	57.4	ppb
	Zn-KED3	66	14.000	-0.03352	67.0	ppb
>	Ge-KED3	72	20600.182			ppb
>	Ge-KED2	72	64423.962			ppb
	As-KED2	75	80.667	-0.04234	189.3	ppb
>	Ge-KED1	72	345677.414			ppb
	Se-KED1	77	349.338	0.17942	397.3	ppb
	Se-KED1	78	11.545	-0.00420	146.1	ppb
	Mo-KED2	95	12.000	-0.00840	77.0	ppb
	Mo-KED2	97	8.667	-0.00421	187.0	ppb
	Mo-KED2	98	18.594	-0.01080	26.7	ppb
	Ag-KED2	107	90.000	0.02130	35.8	ppb
	Ag-KED2	109	93.000	0.02226	18.2	ppb
	Cd-KED2	111	3.333	-0.00246	129.5	ppb
	Cd-KED2	114	5.934	-0.00273	172.6	ppb
>	In-KED2	115	21368.589			ppb
	Sb-KED2	121	49.333	0.02298	40.9	ppb
	Sb-KED2	123	37.124	0.01383	86.1	ppb
	Ba-KED2	135	4.667	-0.02026	23.8	ppb
	Ba-KED2	137	3.667	-0.00753	69.3	ppb
>	Lu-KED2	175	85535.661			ppb
	Tl-KED2	203	17.333	0.00196	397.3	ppb
	Tl-KED2	205	49.333	0.00233	351.3	ppb
	Pb-KED2	208	55.333	0.00076	877.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		102			
>	Ge-KED2	72		100			
	As-KED2	75					
>	Ge-KED1	72		100			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		98			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		101			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 18:45:04
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.008
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837979.931			ppb
	Be-STD1	9	24.000	0.00042	248.1	ppb
	Mn-STD1	55	2188.835	-0.01624	34.2	ppb
	Cr-KED3	52	24.667	0.00371	346.6	ppb
	Cr-KED3	53	48.667	-0.17523	47.4	ppb
	Co-KED3	59	7.667	0.00002	15626.1	ppb
	Ni-KED3	60	4.667	-0.00100	818.1	ppb
	Ni-KED3	62	0.667	0.00046	3792.1	ppb
	Cu-KED3	63	20.667	-0.02930	22.4	ppb
	Cu-KED3	65	11.333	-0.02272	16.7	ppb
	Zn-KED3	66	15.333	-0.01118	162.3	ppb
>	Ge-KED3	72	19445.567			ppb
>	Ge-KED2	72	61954.398			ppb
	As-KED2	75	78.000	-0.03959	229.9	ppb
>	Ge-KED1	72	350153.417			ppb
	Se-KED1	77	332.671	-0.20004	265.3	ppb
	Se-KED1	78	11.433	-0.00661	253.6	ppb
	Mo-KED2	95	6.000	-0.01473	14.7	ppb
	Mo-KED2	97	4.000	-0.01188	31.3	ppb
	Mo-KED2	98	13.708	-0.01351	36.6	ppb
	Ag-KED2	107	33.000	0.00562	40.3	ppb
	Ag-KED2	109	33.667	0.00534	16.9	ppb
	Cd-KED2	111	5.333	0.00344	318.1	ppb
	Cd-KED2	114	3.568	-0.00519	76.6	ppb
>	In-KED2	115	20435.047			ppb
	Sb-KED2	121	37.333	0.00534	269.8	ppb
	Sb-KED2	123	34.373	0.01130	64.4	ppb
	Ba-KED2	135	2.667	-0.02861	20.2	ppb
	Ba-KED2	137	3.000	-0.00886	49.6	ppb
>	Lu-KED2	175	81729.799			ppb
	Tl-KED2	203	3.333	-0.00271	30.5	ppb
	Tl-KED2	205	13.667	-0.00262	29.7	ppb
	Pb-KED2	208	20.000	-0.00323	26.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		96			
>	Ge-KED2	72		96			
	As-KED2	75					
>	Ge-KED1	72		101			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		94			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		97			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Monday, August 24, 2015 18:49:33
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\LLICVS.009
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	852953.741			ppb
	Be-STD1	9	254.002	0.04246	13.1	ppb
	Mn-STD1	55	4868.163	0.08695	1.6	ppb
	Cr-KED3	52	229.335	0.38787	5.5	ppb
	Cr-KED3	53	92.667	0.43285	24.9	ppb
	Co-KED3	59	67.000	0.04461	9.2	ppb
	Ni-KED3	60	155.001	0.35998	17.7	ppb
	Ni-KED3	62	32.000	0.45356	31.0	ppb
	Cu-KED3	63	290.670	0.18421	13.1	ppb
	Cu-KED3	65	145.334	0.19612	5.8	ppb
	Zn-KED3	66	113.000	0.98001	16.5	ppb
>	Ge-KED3	72	20096.807			ppb
>	Ge-KED2	72	61658.810			ppb
	As-KED2	75	220.002	0.93987	3.4	ppb
>	Ge-KED1	72	362244.427			ppb
	Se-KED1	77	441.340	1.56666	46.0	ppb
	Se-KED1	78	393.398	1.95562	3.7	ppb
	Mo-KED2	95	83.334	0.07243	19.0	ppb
	Mo-KED2	97	63.333	0.09246	5.1	ppb
	Mo-KED2	98	176.384	0.09683	18.9	ppb
	Ag-KED2	107	165.668	0.04390	9.8	ppb
	Ag-KED2	109	140.001	0.03705	2.4	ppb
	Cd-KED2	111	17.000	0.03570	40.8	ppb
	Cd-KED2	114	33.284	0.02950	22.8	ppb
>	In-KED2	115	20894.878			ppb
	Sb-KED2	121	83.334	0.08391	13.6	ppb
	Sb-KED2	123	68.998	0.08397	21.1	ppb
	Ba-KED2	135	35.333	0.12184	25.3	ppb
	Ba-KED2	137	43.000	0.08873	7.1	ppb
>	Lu-KED2	175	83285.517			ppb
	Tl-KED2	203	132.667	0.04242	5.4	ppb
	Tl-KED2	205	301.337	0.03953	3.1	ppb
	Pb-KED2	208	872.010	0.09908	5.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9	106				
	Mn-STD1	55	87				
	Cr-KED3	52	97				
	Cr-KED3	53	108				
	Co-KED3	59	112				
	Ni-KED3	60	90				
	Ni-KED3	62	113				
	Cu-KED3	63	92				
	Cu-KED3	65	98				
	Zn-KED3	66	98				
>	Ge-KED3	72		100			
>	Ge-KED2	72		96			
	As-KED2	75	94				
>	Ge-KED1	72		104			
	Se-KED1	77	78				
	Se-KED1	78	98				
	Mo-KED2	95	72				
	Mo-KED2	97	92				
	Mo-KED2	98	97				
	Ag-KED2	107	110				
	Ag-KED2	109	93				
	Cd-KED2	111	89				
	Cd-KED2	114	74				
>	In-KED2	115		96			
	Sb-KED2	121	84				
	Sb-KED2	123	84				
	Ba-KED2	135	122				
	Ba-KED2	137	89				
>	Lu-KED2	175		98			
	Tl-KED2	203	106				
	Tl-KED2	205	99				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Monday, August 24, 2015 18:53:54
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\LLICVS.010
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	951209.417			ppb
	Be-STD1	9	278.003	0.04161	25.8	ppb
	Mn-STD1	55	5425.030	0.08686	6.1	ppb
	Cr-KED3	52	224.335	0.37659	17.6	ppb
	Cr-KED3	53	73.334	0.15191	136.0	ppb
	Co-KED3	59	55.333	0.03544	10.4	ppb
	Ni-KED3	60	163.668	0.37703	16.1	ppb
	Ni-KED3	62	40.667	0.57211	20.7	ppb
	Cu-KED3	63	316.670	0.20347	6.0	ppb
	Cu-KED3	65	144.667	0.19362	9.8	ppb
	Zn-KED3	66	118.667	1.02531	12.7	ppb
>	Ge-KED3	72	20257.694			ppb
>	Ge-KED2	72	61079.644			ppb
	As-KED2	75	221.002	0.96237	11.8	ppb
>	Ge-KED1	72	351942.723			ppb
	Se-KED1	77	398.672	0.99368	28.1	ppb
	Se-KED1	78	383.822	1.96883	2.8	ppb
	Mo-KED2	95	91.334	0.08045	8.9	ppb
	Mo-KED2	97	55.333	0.07732	15.3	ppb
	Mo-KED2	98	157.042	0.08240	18.1	ppb
	Ag-KED2	107	159.334	0.04156	5.3	ppb
	Ag-KED2	109	155.001	0.04106	11.5	ppb
	Cd-KED2	111	20.000	0.04336	28.0	ppb
	Cd-KED2	114	42.193	0.03938	24.1	ppb
>	In-KED2	115	21136.183			ppb
	Sb-KED2	121	89.334	0.09270	13.6	ppb
	Sb-KED2	123	61.247	0.06604	38.8	ppb
	Ba-KED2	135	30.667	0.09888	20.1	ppb
	Ba-KED2	137	43.000	0.08751	6.5	ppb
>	Lu-KED2	175	84538.797			ppb
	Tl-KED2	203	121.334	0.03786	7.8	ppb
	Tl-KED2	205	319.337	0.04152	3.9	ppb
	Pb-KED2	208	882.677	0.09874	2.2	ppb

not needed.
Wrong limits on first try thus the rerun.
M 8/25/15

Sample ID: LLICVS
Report Date/Time: Tuesday, August 25, 2015 09:02:18
Page 1

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		112			
	Be-STD1	9	104				
	Mn-STD1	55	87				
	Cr-KED3	52	94				
	Cr-KED3	53	38				
	Co-KED3	59	89				
	Ni-KED3	60	94				
	Ni-KED3	62	143				
	Cu-KED3	63	102				
	Cu-KED3	65	97				
	Zn-KED3	66	103				
>	Ge-KED3	72		100			
>	Ge-KED2	72		95			
	As-KED2	75	96				
>	Ge-KED1	72		101			
	Se-KED1	77	50				
	Se-KED1	78	98				
	Mo-KED2	95	80				
	Mo-KED2	97	77				
	Mo-KED2	98	82				
	Ag-KED2	107	104				
	Ag-KED2	109	103				
	Cd-KED2	111	108				
	Cd-KED2	114	98				
>	In-KED2	115		97			
	Sb-KED2	121	93				
	Sb-KED2	123	66				
	Ba-KED2	135	99				
	Ba-KED2	137	88				
>	Lu-KED2	175		100			
	Tl-KED2	203	95				
	Tl-KED2	205	104				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Cr-KED3	53	Out of Control
QC Std 5	Ni-KED3	62	Out of Control
QC Std 5	Se-KED1	77	Out of Control
QC Std 5	Sb-KED2	123	Out of Control

8/25/15

LABWORKS - Summary Report

Sample ID: ICSA
Sample Date/Time: Monday, August 24, 2015 18:58:22
Sample Description:
Autosampler Position: 5
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\ICSA.011
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	842248.993			ppb
	Be-STD1	9	59.333	0.00694	29.2	ppb
	Mn-STD1	55	39531.326	1.46216	4.2	ppb
	Cr-KED3	52	121.667	0.19394	7.4	ppb
	Cr-KED3	53	501.342	6.58695	1.5	ppb
	Co-KED3	59	323.670	0.24706	12.6	ppb
	Ni-KED3	60	147.667	0.35416	3.3	ppb
	Ni-KED3	62	33.333	0.49199	20.1	ppb
	Cu-KED3	63	375.338	0.26300	9.5	ppb
	Cu-KED3	65	181.334	0.26647	6.0	ppb
	Zn-KED3	66	42.333	0.27462	26.7	ppb
>	Ge-KED3	72	19360.445			ppb
>	Ge-KED2	72	58443.675			ppb
	As-KED2	75	85.667	0.04651	169.6	ppb
>	Ge-KED1	72	343607.212			ppb
	Se-KED1	77	462.674	2.33488	46.2	ppb
	Se-KED1	78	22.948	0.05886	50.9	ppb
	Mo-KED2	95	42618.863	50.71595	3.5	ppb
	Mo-KED2	97	26947.392	49.98491	1.1	ppb
	Mo-KED2	98	69471.060	49.66672	2.9	ppb
	Ag-KED2	107	85.000	0.02187	24.7	ppb
	Ag-KED2	109	104.334	0.02799	11.7	ppb
	Cd-KED2	111	34.333	0.08891	14.7	ppb
	Cd-KED2	114	83.423	0.09333	9.0	ppb
>	In-KED2	115	19832.787			ppb
	Sb-KED2	121	159.334	0.23160	7.9	ppb
	Sb-KED2	123	140.500	0.25512	23.4	ppb
	Ba-KED2	135	35.333	0.13069	23.6	ppb
	Ba-KED2	137	55.667	0.12708	15.2	ppb
>	Lu-KED2	175	80469.682			ppb
	Tl-KED2	203	13.333	0.00092	225.0	ppb
	Tl-KED2	205	36.000	0.00080	51.5	ppb
	Pb-KED2	208	661.339	0.07649	2.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99		
|	Be-STD1	9				
⌊	Mn-STD1	55				
⌈	Cr-KED3	52				
|	Cr-KED3	53				
|	Co-KED3	59				
|	Ni-KED3	60				
|	Ni-KED3	62				
|	Cu-KED3	63				
|	Cu-KED3	65				
|	Zn-KED3	66				
⌊>	Ge-KED3	72		96		
⌈>	Ge-KED2	72		91		
⌊	As-KED2	75				
⌈>	Ge-KED1	72		99		
|	Se-KED1	77				
⌊	Se-KED1	78				
⌈	Mo-KED2	95	101			
|	Mo-KED2	97	100			
|	Mo-KED2	98	99			
|	Ag-KED2	107				
|	Ag-KED2	109				
|	Cd-KED2	111				
|	Cd-KED2	114				
|>	In-KED2	115		91		
|	Sb-KED2	121				
|	Sb-KED2	123				
|	Ba-KED2	135				
⌊	Ba-KED2	137				
⌈>	Lu-KED2	175		95		
|	Tl-KED2	203				
|	Tl-KED2	205				
⌊	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICSAB
Sample Date/Time: Monday, August 24, 2015 19:02:50
Sample Description:
Autosampler Position: 6
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\ICSAB.012
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	832530.766			ppb
	Be-STD1	9	68.667	0.00883	12.2	ppb
	Mn-STD1	55	1300129.172	51.99446	3.2	ppb
	Cr-KED3	52	24629.956	49.06958	9.4	ppb
	Cr-KED3	53	3647.132	54.51359	5.2	ppb
	Co-KED3	59	60576.207	48.19330	1.5	ppb
	Ni-KED3	60	18009.030	45.53925	7.2	ppb
	Ni-KED3	62	2972.976	45.43868	5.5	ppb
	Cu-KED3	63	52822.861	44.26803	2.3	ppb
	Cu-KED3	65	25441.327	43.97107	4.4	ppb
	Zn-KED3	66	2080.485	22.16059	5.1	ppb
>	Ge-KED3	72	19038.015			ppb
>	Ge-KED2	72	57853.276			ppb
	As-KED2	75	3384.401	24.26071	3.6	ppb
>	Ge-KED1	72	329003.910			ppb
	Se-KED1	77	1776.778	28.67193	1.8	ppb
	Se-KED1	78	4334.533	24.52941	3.3	ppb
	Mo-KED2	95	40715.280	49.22597	1.6	ppb
	Mo-KED2	97	26682.230	50.28677	1.7	ppb
	Mo-KED2	98	67660.465	49.12571	1.4	ppb
	Ag-KED2	107	34668.372	10.77104	1.0	ppb
	Ag-KED2	109	33752.828	10.84295	2.5	ppb
	Cd-KED2	111	7571.673	22.53087	1.6	ppb
	Cd-KED2	114	18385.302	23.03892	1.6	ppb
>	In-KED2	115	19521.053			ppb
	Sb-KED2	121	162.668	0.24226	2.5	ppb
	Sb-KED2	123	118.998	0.21015	7.6	ppb
	Ba-KED2	135	34.667	0.13061	24.3	ppb
	Ba-KED2	137	57.000	0.13272	4.1	ppb
>	Lu-KED2	175	80039.938			ppb
	Tl-KED2	203	18.667	0.00287	142.8	ppb
	Tl-KED2	205	34.000	0.00051	386.7	ppb
	Pb-KED2	208	622.005	0.07203	6.2	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98			
|	Be-STD1	9					
⌊	Mn-STD1	55	104				
⌈	Cr-KED3	52	98				
|	Cr-KED3	53	109				
|	Co-KED3	59	96				
|	Ni-KED3	60	91				
|	Ni-KED3	62	91				
|	Cu-KED3	63	89				
|	Cu-KED3	65	88				
|	Zn-KED3	66	89				
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75	97				
⌈>	Ge-KED1	72		95			
|	Se-KED1	77	115				
⌊	Se-KED1	78	98				
⌈	Mo-KED2	95	98				
|	Mo-KED2	97	101				
|	Mo-KED2	98	98				
|	Ag-KED2	107	86				
|	Ag-KED2	109	87				
|	Cd-KED2	111	90				
|	Cd-KED2	114	92				
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-14
Sample Date/Time: Monday, August 24, 2015 19:07:20
Sample Description: 5
Autosampler Position: 301
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\KQ1509275-14.013
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	861378.430			ppb
	Be-STD1	9	10.667	-0.00214	21.7	ppb
	Mn-STD1	55	2170.832	-0.01931	12.4	ppb
	Cr-KED3	52	218.335	0.35269	2.5	ppb
	Cr-KED3	53	62.000	-0.03579	367.6	ppb
	Co-KED3	59	14.000	0.00407	100.0	ppb
	Ni-KED3	60	26.000	0.04750	18.2	ppb
	Ni-KED3	62	4.667	0.05624	129.5	ppb
	Cu-KED3	63	50.000	-0.00815	74.0	ppb
	Cu-KED3	65	30.333	0.00624	126.8	ppb
	Zn-KED3	66	32.333	0.14563	22.5	ppb
>	Ge-KED3	72	20841.875			ppb
>	Ge-KED2	72	65509.629			ppb
	As-KED2	75	61.000	-0.17858	21.0	ppb
>	Ge-KED1	72	376426.194			ppb
	Se-KED1	77	327.337	-0.71172	23.0	ppb
	Se-KED1	78	12.746	-0.00322	343.8	ppb
	Mo-KED2	95	17.333	-0.00231	209.6	ppb
	Mo-KED2	97	14.667	0.00624	164.2	ppb
	Mo-KED2	98	34.082	-0.00025	2922.4	ppb
	Ag-KED2	107	36.000	0.00609	38.0	ppb
	Ag-KED2	109	45.333	0.00837	47.0	ppb
	Cd-KED2	111	5.667	0.00396	104.1	ppb
	Cd-KED2	114	3.826	-0.00504	123.2	ppb
>	In-KED2	115	21225.411			ppb
	Sb-KED2	121	9.333	-0.04510	12.3	ppb
	Sb-KED2	123	9.998	-0.04342	13.4	ppb
	Ba-KED2	135	5.333	-0.01707	29.1	ppb
	Ba-KED2	137	9.000	0.00528	8.7	ppb
>	Lu-KED2	175	84244.351			ppb
	Tl-KED2	203	4.000	-0.00251	54.9	ppb
	Tl-KED2	205	10.000	-0.00322	15.8	ppb
	Pb-KED2	208	107.333	0.00706	38.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102		
	Be-STD1	9				
	Mn-STD1	55				
	Cr-KED3	52				
	Cr-KED3	53				
	Co-KED3	59				
	Ni-KED3	60				
	Ni-KED3	62				
	Cu-KED3	63				
	Cu-KED3	65				
	Zn-KED3	66				
>	Ge-KED3	72		103		
>	Ge-KED2	72		102		
	As-KED2	75				
>	Ge-KED1	72		109		
	Se-KED1	77				
	Se-KED1	78				
	Mo-KED2	95				
	Mo-KED2	97				
	Mo-KED2	98				
	Ag-KED2	107				
	Ag-KED2	109				
	Cd-KED2	111				
	Cd-KED2	114				
>	In-KED2	115		97		
	Sb-KED2	121				
	Sb-KED2	123				
	Ba-KED2	135				
	Ba-KED2	137				
>	Lu-KED2	175		100		
	Tl-KED2	203				
	Tl-KED2	205				
	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001
Sample Date/Time: Monday, August 24, 2015 19:11:48
Sample Description: 5
Autosampler Position: 302
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001.014
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	857189.816			ppb
	Be-STD1	9	5491.722	0.99559	2.7	ppb
	~~Mn-STD1~~	~~55~~	~~241821886.755~~	~~9412.07540~~	~~4.4~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~166590.265~~	~~321.17354~~	~~4.5~~	~~ppb~~
	Cr-KED3	53	21437.445	313.76475	2.8	ppb
	Co-KED3	59	39216.890	30.16394	3.4	ppb
	Ni-KED3	60	21916.803	53.61458	4.8	ppb
	Ni-KED3	62	3545.774	52.37152	3.8	ppb
	Cu-KED3	63	104001.109	84.28592	3.9	ppb
	~~Cu-KED3~~	~~65~~	~~52772.054~~	~~88.20492~~	~~2.5~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~31882.554~~	~~331.08438~~	~~5.7~~	~~ppb~~
>	Ge-KED3	72	19678.887			ppb
>	Ge-KED2	72	60400.753			ppb
	As-KED2	75	1861.455	12.50842	2.4	ppb
>	Ge-KED1	72	330312.034			ppb
	Se-KED1	77	433.340	2.14641	29.4	ppb
	Se-KED1	78	91.164	0.44588	13.0	ppb
	Mo-KED2	95	5629.109	6.60555	0.5	ppb
	Mo-KED2	97	3827.847	7.00526	4.6	ppb
	Mo-KED2	98	9777.575	6.89129	2.3	ppb
	Ag-KED2	107	558.011	0.16468	4.3	ppb
	Ag-KED2	109	498.009	0.15079	4.2	ppb
	Cd-KED2	111	480.008	1.37932	7.3	ppb
	Cd-KED2	114	1131.246	1.37069	2.0	ppb
>	In-KED2	115	20053.009			ppb
	Sb-KED2	121	393.339	0.65326	5.8	ppb
	Sb-KED2	123	325.041	0.66530	6.2	ppb
	Ba-KED2	135	85067.196	409.54708	0.3	ppb
	Ba-KED2	137	158058.421	402.21636	1.4	ppb
>	Lu-KED2	175	83913.740			ppb
	Tl-KED2	203	432.673	0.14616	3.0	ppb
	Tl-KED2	205	1029.037	0.14525	4.7	ppb
	Pb-KED2	208	454062.182	54.09258	0.7	ppb

OR 8/25/15

Se 1/50 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		97			
>	Ge-KED2	72		94			
	As-KED2	75					
>	Ge-KED1	72		95			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		92			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		99			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001D
Sample Date/Time: Monday, August 24, 2015 19:16:16
Sample Description: 5
Autosampler Position: 303
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001D.015
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	884765.265			ppb
	Be-STD1	9	4798.139	0.84226	3.7	ppb
	~~Mn-STD1~~	~~55~~	~~146054995.185~~	~~5505.57778~~	~~0.8~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~143244.800~~	~~279.76922~~	~~6.5~~	~~ppb~~
	Cr-KED3	53	19636.180	291.57958	6.3	ppb
	Co-KED3	59	39470.830	30.79288	2.9	ppb
	Ni-KED3	60	19519.017	48.36131	5.2	ppb
	Ni-KED3	62	3243.703	48.60846	7.0	ppb
	Cu-KED3	63	75794.809	62.32123	4.8	ppb
	~~Cu-KED3~~	~~65~~	~~36522.648~~	~~61.91156~~	~~1.8~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~27587.339~~	~~290.11005~~	~~6.1~~	~~ppb~~
>	Ge-KED3	72	19410.178			ppb
>	Ge-KED2	72	60862.474			ppb
	As-KED2	75	2462.546	16.62122	5.2	ppb
>	Ge-KED1	72	343954.441			ppb
	Se-KED1	77	394.672	1.09536	7.3	ppb
	Se-KED1	78	84.518	0.39218	5.5	ppb
	Mo-KED2	95	5617.105	6.63760	2.8	ppb
	Mo-KED2	97	3608.456	6.64830	2.4	ppb
	Mo-KED2	98	9169.390	6.50592	1.1	ppb
	Ag-KED2	107	594.346	0.17687	5.7	ppb
	Ag-KED2	109	552.344	0.16902	5.3	ppb
	Cd-KED2	111	359.338	1.03702	2.0	ppb
	Cd-KED2	114	826.322	1.00570	3.0	ppb
>	In-KED2	115	19914.720			ppb
	Sb-KED2	121	363.338	0.60315	11.7	ppb
	Sb-KED2	123	310.959	0.63866	4.9	ppb
	Ba-KED2	135	53343.430	258.57326	1.2	ppb
	Ba-KED2	137	98891.108	253.40853	0.8	ppb
>	Lu-KED2	175	82495.516			ppb
	Tl-KED2	203	413.339	0.14189	2.8	ppb
	Tl-KED2	205	946.031	0.13547	4.0	ppb
	Pb-KED2	208	440560.083	53.38683	1.2	ppb

m 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		105			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		96			
⌈>	Ge-KED2	72		95			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		99			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		91			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		98			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001L
Sample Date/Time: Monday, August 24, 2015 19:20:44
Sample Description: 25
Autosampler Position: 304
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001L.016
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit	
>	Li-STD1	6	875164.975			ppb	
	Be-STD1	9	1233.387	0.21583	1.6	ppb	
	~~Mn-STD1~~	~~55~~	~~49695446.771~~	~~1893.91615~~	~~2.3~~	~~ppb~~	~~n 8/25/15~~
	~~Cr-KED3~~	~~52~~	~~34716.174~~	~~62.49399~~	~~9.1~~	~~ppb~~	~~3?~~
	Cr-KED3	53	4672.099	63.08758	4.7	ppb	
	Co-KED3	59	8477.192	6.06932	2.7	ppb	
	Ni-KED3	60	4879.500	11.13403	7.4	ppb	
	Ni-KED3	62	775.355	10.71973	16.2	ppb	
	Cu-KED3	63	23369.833	17.61877	1.9	ppb	
	~~Cu-KED3~~	~~65~~	~~12082.766~~	~~16.80449~~	~~3.1~~	~~ppb~~	~~6?~~
	~~Zn-KED3~~	~~66~~	~~7224.161~~	~~69.92976~~	~~8.9~~	~~ppb~~	~~8?~~
>	Ge-KED3	72	21116.964			ppb	
>	Ge-KED2	72	64741.377			ppb	
	As-KED2	75	476.341	2.54799	5.5	ppb	2?
>	Ge-KED1	72	365539.114			ppb	
	Se-KED1	77	330.004	-0.52523	142.4	ppb	
	Se-KED1	78	30.604	0.08818	28.4	ppb	
	Mo-KED2	95	1239.387	1.36083	3.0	ppb	
	Mo-KED2	97	773.354	1.32587	7.5	ppb	
	Mo-KED2	98	2055.563	1.35428	4.1	ppb	
	Ag-KED2	107	138.667	0.03559	4.3	ppb	
	Ag-KED2	109	125.667	0.03226	7.8	ppb	
	Cd-KED2	111	119.000	0.31496	8.2	ppb	14?
	Cd-KED2	114	252.331	0.28208	7.8	ppb	
>	In-KED2	115	21170.613			ppb	
	Sb-KED2	121	104.000	0.11779	4.8	ppb	
	Sb-KED2	123	82.914	0.11164	15.2	ppb	
	Ba-KED2	135	17729.663	80.83861	2.7	ppb	
	Ba-KED2	137	33572.744	80.91374	1.1	ppb	
>	Lu-KED2	175	86140.601			ppb	
	Tl-KED2	203	90.000	0.02653	18.5	ppb	
	Tl-KED2	205	226.002	0.02740	7.3	ppb	
	Pb-KED2	208	98055.633	11.37530	1.4	ppb	5?

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		105			
>	Ge-KED2	72		101			
	As-KED2	75					
>	Ge-KED1	72		105			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		97			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		102			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001A
Sample Date/Time: Monday, August 24, 2015 19:25:12
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 305
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\K1508581-001A.017
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837866.997			ppb
	Be-STD1	9	276888.670	51.62680	6.4	ppb
	~~Mn-STD1~~	~~55~~	~~242650047.140~~	~~9662.10576~~	~~1.8~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~189347.362~~	~~361.77684~~	~~4.9~~	~~ppb~~
	~~Cr-KED3~~	~~53~~	~~25390.572~~	~~368.85603~~	~~4.3~~	~~ppb~~
	Co-KED3	59	100670.383	76.80684	1.6	ppb
	Ni-KED3	60	38894.564	94.30591	4.6	ppb
	Ni-KED3	62	6523.489	95.60381	2.1	ppb
	Cu-KED3	63	154531.633	124.23978	3.9	ppb
	~~Cu-KED3~~	~~65~~	~~75641.165~~	~~125.46695~~	~~3.1~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~35831.910~~	~~388.66593~~	~~4.6~~	~~ppb~~
>	Ge-KED3	72	19849.451			ppb
>	Ge-KED2	72	59501.348			ppb
	As-KED2	75	8853.076	62.60101	2.4	ppb
>	Ge-KED1	72	332220.649			ppb
	Se-KED1	77	3190.359	55.88970	5.8	ppb
	Se-KED1	78	9321.544	52.27727	2.1	ppb
	Mo-KED2	95	47037.982	55.07340	0.8	ppb
	Mo-KED2	97	29861.856	54.50649	3.2	ppb
	Mo-KED2	98	75770.474	53.29362	2.9	ppb
	Ag-KED2	107	30282.743	9.11218	2.5	ppb
	Ag-KED2	109	29592.954	9.20343	0.9	ppb
	Cd-KED2	111	16694.083	48.11370	0.9	ppb
	Cd-KED2	114	39359.909	47.77230	1.7	ppb
>	In-KED2	115	20156.578			ppb
	Sb-KED2	121	26975.450	48.69286	2.5	ppb
	Sb-KED2	123	20953.358	46.74263	1.5	ppb
	~~Ba-KED2~~	~~135~~	~~90874.804~~	~~435.31010~~	~~1.8~~	~~ppb~~
	~~Ba-KED2~~	~~137~~	~~175118.847~~	~~443.39791~~	~~1.7~~	~~ppb~~
>	Lu-KED2	175	82791.912			ppb
	Tl-KED2	203	124515.681	43.76197	1.1	ppb
	Tl-KED2	205	299305.324	44.18638	1.3	ppb
	Pb-KED2	208	813780.395	98.27500	1.5	ppb

D N/A
4 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9			101		
	Mn-STD1	55			500	NA	
	Cr-KED3	52			81		
	Cr-KED3	53			110		
	Co-KED3	59			93		
	Ni-KED3	60			81		
	Ni-KED3	62			86		
	Cu-KED3	63			80		
	Cu-KED3	65			74		
	Zn-KED3	66			75	NA	
>	Ge-KED3	72		98			
>	Ge-KED2	72		93			
	As-KED2	75			100		
>	Ge-KED1	72		96			
	Se-KED1	77			107		
	Se-KED1	78			104		
	Mo-KED2	95			97		
	Mo-KED2	97			95		
	Mo-KED2	98			93		
	Ag-KED2	107			89		
	Ag-KED2	109			91		
	Cd-KED2	111			93		
	Cd-KED2	114			93		
>	In-KED2	115		92			
	Sb-KED2	121			96		
	Sb-KED2	123			92		
	Ba-KED2	135			52		
	Ba-KED2	137			82	NA	
>	Lu-KED2	175		98			
	Tl-KED2	203			87		
	Tl-KED2	205			88		
	Pb-KED2	208			88		

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001S
Sample Date/Time: Monday, August 24, 2015 19:29:39
Sample Description: 5
Autosampler Position: 306
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-001S.018
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	919993.677			ppb
	Be-STD1	9	126708.894	21.50635	3.2	ppb
	~~Mn-STD1~~	~~55~~	~~157412592.215~~	~~5743.81673~~	~~5.8~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~245418.085~~	~~501.00158~~	~~5.9~~	~~ppb~~
	Cr-KED3	53	31985.157	497.01253	6.5	ppb
	Co-KED3	59	290752.813	236.99078	6.0	ppb
	Ni-KED3	60	101597.012	263.08303	2.2	ppb
	Ni-KED3	62	16285.283	255.07103	5.0	ppb
	Cu-KED3	63	210636.691	181.08204	4.6	ppb
	~~Cu-KED3~~	~~65~~	~~107329.105~~	~~190.11952~~	~~2.2~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~41675.784~~	~~458.07389~~	~~5.4~~	~~ppb~~
>	Ge-KED3	72	18580.412			ppb
>	Ge-KED2	72	58692.326			ppb
	As-KED2	75	29286.990	211.26012	0.4	ppb
>	Ge-KED1	72	325361.002			ppb
	Se-KED1	77	11538.005	224.21202	3.9	ppb
	Se-KED1	78	36412.571	208.97008	4.2	ppb
	Mo-KED2	95	176887.796	210.79350	0.5	ppb
	Mo-KED2	97	112473.041	208.94316	2.1	ppb
	Mo-KED2	98	286052.200	204.75019	1.3	ppb
	Ag-KED2	107	61192.782	18.74258	1.7	ppb
	Ag-KED2	109	59247.943	18.75559	1.4	ppb
	Cd-KED2	111	7054.742	20.68299	0.9	ppb
	Cd-KED2	114	16748.019	20.67840	2.0	ppb
>	In-KED2	115	19809.893			ppb
	Sb-KED2	121	49103.592	90.22983	1.0	ppb
	Sb-KED2	123	38160.860	86.69068	1.9	ppb
	Ba-KED2	135	137682.296	671.14074	1.8	ppb
	Ba-KED2	137	260777.086	671.83825	1.0	ppb
>	Lu-KED2	175	81958.811			ppb
	Tl-KED2	203	536257.610	190.40764	0.9	ppb
	Tl-KED2	205	1268303.198	189.15828	1.0	ppb
	Pb-KED2	208	1966783.148	239.92216	0.6	ppb

~ 8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		109			
	Be-STD1	9				103	
	Mn-STD1	55				-1849	
	Cr-KED3	52				225	
	Cr-KED3	53				229	
	Co-KED3	59				103	
	Ni-KED3	60				105	
	Ni-KED3	62				101	
	Cu-KED3	63				97	
	Cu-KED3	65				102	
	Zn-KED3	66				63	
>	Ge-KED3	72		92			
>	Ge-KED2	72		91			
	As-KED2	75				99	
>	Ge-KED1	72		94			
	Se-KED1	77				111	
	Se-KED1	78				104	
	Mo-KED2	95				102	
	Mo-KED2	97				101	
	Mo-KED2	98				99	
	Ag-KED2	107				93	
	Ag-KED2	109				93	
	Cd-KED2	111				97	
	Cd-KED2	114				97	
>	In-KED2	115		91			
	Sb-KED2	121				45	
	Sb-KED2	123				43	
	Ba-KED2	135				65	
	Ba-KED2	137				67	
>	Lu-KED2	175		97			
	Tl-KED2	203				95	
	Tl-KED2	205				95	
	Pb-KED2	208				93	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-13
Sample Date/Time: Monday, August 24, 2015 19:34:07
Sample Description: 20
Autosampler Position: 307
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\KQ1509275-13.019
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	837923.638			ppb
	Be-STD1	9	217634.736	40.51694	0.4	ppb
	Mn-STD1	55	4298078.048	171.05107	3.0	ppb
	Cr-KED3	52	36951.071	68.16281	2.5	ppb
	Cr-KED3	53	4950.192	68.77756	6.0	ppb
	Co-KED3	59	92133.916	67.92880	4.3	ppb
	Ni-KED3	60	32329.220	75.69428	1.8	ppb
	Ni-KED3	62	5389.686	76.33870	7.2	ppb
	Cu-KED3	63	65135.507	50.59785	1.6	ppb
	Cu-KED3	65	31963.491	51.18134	5.8	ppb
	Zn-KED3	66	7454.612	73.95341	3.0	ppb
>	Ge-KED3	72	20540.757			ppb
>	Ge-KED2	72	62951.750			ppb
	As-KED2	75	8021.585	53.52372	1.1	ppb
>	Ge-KED1	72	346413.393			ppb
	Se-KED1	77	4888.173	85.30590	2.5	ppb
	Se-KED1	78	14797.112	79.63056	2.3	ppb
	Mo-KED2	95	61600.618	70.25921	1.4	ppb
	Mo-KED2	97	39512.576	70.26926	1.9	ppb
	Mo-KED2	98	100338.121	68.76908	2.8	ppb
	Ag-KED2	107	72768.941	21.34496	3.5	ppb
	Ag-KED2	109	70470.733	21.36622	3.0	ppb
	Cd-KED2	111	33653.598	94.53692	2.9	ppb
	Cd-KED2	114	79338.412	93.83785	1.9	ppb
>	In-KED2	115	20690.536			ppb
	Sb-KED2	121	20816.491	36.59664	2.4	ppb
	Sb-KED2	123	16597.136	36.06089	1.8	ppb
	Ba-KED2	135	33926.240	158.33859	2.7	ppb
	Ba-KED2	137	65484.418	161.54252	1.7	ppb
>	Lu-KED2	175	84937.759			ppb
	Tl-KED2	203	264191.401	90.50381	0.8	ppb
	Tl-KED2	205	625708.356	90.03374	0.4	ppb
	Pb-KED2	208	507010.654	59.67111	0.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9	102				
⌊	Mn-STD1	55	106				
⌈	Cr-KED3	52	100				
|	Cr-KED3	53	101				
|	Co-KED3	59	106				
|	Ni-KED3	60	99				
|	Ni-KED3	62	100				
|	Cu-KED3	63	99				
|	Cu-KED3	65	100				
|	Zn-KED3	66	92				
⌊>	Ge-KED3	72		102			
⌈>	Ge-KED2	72		98			
⌊	As-KED2	75	107				
⌈>	Ge-KED1	72		100			
|	Se-KED1	77	114				
⌊	Se-KED1	78	106				
⌈	Mo-KED2	95	106				
|	Mo-KED2	97	106				
|	Mo-KED2	98	103				
|	Ag-KED2	107	106				
|	Ag-KED2	109	106				
|	Cd-KED2	111	104				
|	Cd-KED2	114	103				
|>	In-KED2	115		95			
|	Sb-KED2	121	83				
|	Sb-KED2	123	82				
|	Ba-KED2	135	102				
⌊	Ba-KED2	137	104				
⌈>	Lu-KED2	175		100			
|	Tl-KED2	203	104				
|	Tl-KED2	205	103				
⌊	Pb-KED2	208	104				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-002
Sample Date/Time: Monday, August 24, 2015 19:38:35
Sample Description: 5
Autosampler Position: 308
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508581-002.020
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	780418.167			ppb
	Be-STD1	9	5494.390	1.09472	3.0	ppb
	~~Mn-STD1~~	~~55~~	~~251652453.220~~	~~10755.86692~~	~~1.5~~	~~ppb~~
	~~Cr-KED3~~	~~52~~	~~168621.449~~	~~364.28408~~	~~6.2~~	~~ppb~~
	Cr-KED3	53	22638.627	371.48833	3.9	ppb
	Co-KED3	59	42468.731	36.63645	4.2	ppb
	Ni-KED3	60	29603.673	81.15364	6.6	ppb
	Ni-KED3	62	4875.499	80.79151	6.1	ppb
	Cu-KED3	63	196945.617	178.98420	1.9	ppb
	~~Cu-KED3~~	~~65~~	~~99070.436~~	~~185.80266~~	~~4.2~~	~~ppb~~
	~~Zn-KED3~~	~~66~~	~~479860.328~~	~~5582.33413~~	~~4.2~~	~~ppb~~
>	Ge-KED3	72	17566.466			ppb
>	Ge-KED2	72	54080.216			ppb
	As-KED2	75	2205.837	16.74857	3.0	ppb
>	Ge-KED1	72	303992.257			ppb
	Se-KED1	77	424.673	2.71206	3.1	ppb
	Se-KED1	78	82.902	0.44286	7.6	ppb
	Mo-KED2	95	8563.233	10.75022	1.9	ppb
	Mo-KED2	97	5381.014	10.52788	2.8	ppb
	Mo-KED2	98	13895.290	10.47325	2.1	ppb
	Ag-KED2	107	8150.658	2.63088	1.8	ppb
	Ag-KED2	109	7929.200	2.64474	1.3	ppb
	Cd-KED2	111	5157.598	15.95669	1.9	ppb
	Cd-KED2	114	12406.070	16.16234	1.8	ppb
>	In-KED2	115	18769.721			ppb
	Sb-KED2	121	4444.025	8.56236	2.3	ppb
	Sb-KED2	123	3566.646	8.49273	1.3	ppb
	Ba-KED2	135	58006.205	298.35563	0.8	ppb
	Ba-KED2	137	107774.686	293.03633	1.1	ppb
>	Lu-KED2	175	77870.010			ppb
	Tl-KED2	203	717.351	0.26403	6.2	ppb
	Tl-KED2	205	1667.431	0.25694	5.4	ppb
	Pb-KED2	208	10725392.944	1377.05774	0.7	ppb

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		92		
	Be-STD1	9				
	Mn-STD1	55				
	Cr-KED3	52				
	Cr-KED3	53				
	Co-KED3	59				
	Ni-KED3	60				
	Ni-KED3	62				
	Cu-KED3	63				
	Cu-KED3	65				
	Zn-KED3	66				
>	Ge-KED3	72		87		
>	Ge-KED2	72		84		
	As-KED2	75				
>	Ge-KED1	72		88		
	Se-KED1	77				
	Se-KED1	78				
	Mo-KED2	95				
	Mo-KED2	97				
	Mo-KED2	98				
	Ag-KED2	107				
	Ag-KED2	109				
	Cd-KED2	111				
	Cd-KED2	114				
>	In-KED2	115		86		
	Sb-KED2	121				
	Sb-KED2	123				
	Ba-KED2	135				
	Ba-KED2	137				
>	Lu-KED2	175		92		
	Tl-KED2	203				
	Tl-KED2	205				
	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001
Sample Date/Time: Monday, August 24, 2015 19:43:03
Sample Description: 5
Autosampler Position: 309
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001.021
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	891256.606			ppb
	Be-STD1	9	2930.968	0.50910	3.3	ppb
	Mn-STD1	55	15654474.260	586.05284	4.4	ppb
	Cr-KED3	52	9262.005	18.29177	7.1	ppb
	Cr-KED3	53	1542.083	22.33784	1.8	ppb
	Co-KED3	59	20823.177	16.44185	1.7	ppb
	Ni-KED3	60	7473.957	18.76454	7.7	ppb
	Ni-KED3	62	1290.725	19.54256	6.1	ppb
	Cu-KED3	63	39884.396	33.14912	2.9	ppb
	Cu-KED3	65	20070.770	34.44611	5.1	ppb
	Zn-KED3	66	7057.410	75.04702	4.6	ppb
>	Ge-KED3	72	19176.871			ppb
>	Ge-KED2	72	61242.012			ppb
	As-KED2	75	2369.863	15.85334	1.8	ppb
>	Ge-KED1	72	327703.257			ppb
	Se-KED1	77	345.338	0.48788	17.9	ppb
	Se-KED1	78	53.117	0.23479	5.6	ppb
	Mo-KED2	95	869.360	1.01932	5.5	ppb
	Mo-KED2	97	522.010	0.95535	4.7	ppb
	Mo-KED2	98	1396.224	0.98039	3.6	ppb
	Ag-KED2	107	247.669	0.07208	6.9	ppb
	Ag-KED2	109	216.335	0.06377	5.5	ppb
	Cd-KED2	111	64.333	0.17785	9.2	ppb
	Cd-KED2	114	155.715	0.18377	8.3	ppb
>	In-KED2	115	19724.385			ppb
	Sb-KED2	121	259.336	0.41844	14.3	ppb
	Sb-KED2	123	199.708	0.39186	13.8	ppb
	Ba-KED2	135	31697.802	155.12864	0.3	ppb
	Ba-KED2	137	58806.149	152.13749	0.4	ppb
>	Lu-KED2	175	84156.503			ppb
	Tl-KED2	203	646.681	0.21975	3.1	ppb
	Tl-KED2	205	1490.078	0.21179	6.2	ppb
	Pb-KED2	208	60442.168	7.17570	2.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		105			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		95			
⌈>	Ge-KED2	72		95			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		95			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		90			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		99			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 19:47:34
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCV.022
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	849459.134			ppb
	Be-STD1	9	136912.570	25.15132	4.0	ppb
	Mn-STD1	55	658996.966	25.77515	2.9	ppb
	Cr-KED3	52	12356.348	24.34400	7.0	ppb
	Cr-KED3	53	1586.755	22.95804	3.2	ppb
	Co-KED3	59	32364.405	25.47268	5.3	ppb
	Ni-KED3	60	9963.808	24.92757	4.5	ppb
	Ni-KED3	62	1578.087	23.86704	2.8	ppb
	Cu-KED3	63	29696.180	24.61408	0.9	ppb
	Cu-KED3	65	15459.697	26.43515	2.6	ppb
	Zn-KED3	66	2304.853	24.33187	7.7	ppb
>	Ge-KED3	72	19232.277			ppb
>	Ge-KED2	72	61516.229			ppb
	As-KED2	75	3825.179	25.84532	4.9	ppb
>	Ge-KED1	72	341709.257			ppb
	Se-KED1	77	1717.437	26.34584	6.2	ppb
	Se-KED1	78	4686.171	25.55522	3.9	ppb
	Mo-KED2	95	22298.060	25.91457	2.2	ppb
	Mo-KED2	97	14449.306	26.18168	3.4	ppb
	Mo-KED2	98	36155.200	25.24097	3.2	ppb
	Ag-KED2	107	84773.453	25.34032	1.4	ppb
	Ag-KED2	109	79659.514	24.61370	2.7	ppb
	Cd-KED2	111	8606.925	24.62999	1.7	ppb
	Cd-KED2	114	20879.384	25.15650	0.7	ppb
>	In-KED2	115	20298.347			ppb
	Sb-KED2	121	14021.544	25.10216	1.0	ppb
	Sb-KED2	123	11195.911	24.77255	0.6	ppb
	Ba-KED2	135	5166.269	24.52963	4.2	ppb
	Ba-KED2	137	9674.608	24.30914	1.2	ppb
>	Lu-KED2	175	82512.303			ppb
	Tl-KED2	203	71473.046	25.20281	1.3	ppb
	Tl-KED2	205	169376.916	25.08657	0.9	ppb
	Pb-KED2	208	209440.242	25.37303	1.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9	101				
	Mn-STD1	55	103				
	Cr-KED3	52	97				
	Cr-KED3	53	92				
	Co-KED3	59	102				
	Ni-KED3	60	100				
	Ni-KED3	62	95				
	Cu-KED3	63	98				
	Cu-KED3	65	106				
	Zn-KED3	66	97				
>	Ge-KED3	72		95			
>	Ge-KED2	72		96			
	As-KED2	75	103				
>	Ge-KED1	72		99			
	Se-KED1	77	105				
	Se-KED1	78	102				
	Mo-KED2	95	104				
	Mo-KED2	97	105				
	Mo-KED2	98	101				
	Ag-KED2	107	101				
	Ag-KED2	109	98				
	Cd-KED2	111	99				
	Cd-KED2	114	101				
>	In-KED2	115		93			
	Sb-KED2	121	100				
	Sb-KED2	123	99				
	Ba-KED2	135	98				
	Ba-KED2	137	97				
>	Lu-KED2	175		98			
	Tl-KED2	203	101				
	Tl-KED2	205	100				
	Pb-KED2	208	101				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 19:52:02
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\CCB.023
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	785388.884			ppb
	Be-STD1	9	8.000	-0.00246	1.3	ppb
	Mn-STD1	55	2106.822	-0.01388	39.9	ppb
	Cr-KED3	52	22.667	0.00071	627.8	ppb
	Cr-KED3	53	42.667	-0.24870	38.8	ppb
	Co-KED3	59	7.333	-0.00018	1461.4	ppb
	Ni-KED3	60	6.000	0.00277	442.8	ppb
	Ni-KED3	62	2.000	0.02131	143.0	ppb
	Cu-KED3	63	26.000	-0.02475	34.7	ppb
	Cu-KED3	65	17.000	-0.01227	63.1	ppb
	Zn-KED3	66	20.333	0.04761	109.6	ppb
>	Ge-KED3	72	19003.642			ppb
>	Ge-KED2	72	59189.427			ppb
	As-KED2	75	71.334	-0.06228	68.1	ppb
>	Ge-KED1	72	337907.522			ppb
	Se-KED1	77	284.003	-0.85267	57.3	ppb
	Se-KED1	78	12.161	-0.00033	2532.4	ppb
	Mo-KED2	95	8.000	-0.01184	55.3	ppb
	Mo-KED2	97	6.667	-0.00637	193.8	ppb
	Mo-KED2	98	11.708	-0.01452	11.9	ppb
	Ag-KED2	107	37.333	0.00745	49.3	ppb
	Ag-KED2	109	36.333	0.00675	24.2	ppb
	Cd-KED2	111	3.667	-0.00058	1299.0	ppb
	Cd-KED2	114	7.298	-0.00036	870.5	ppb
>	In-KED2	115	19396.297			ppb
	Sb-KED2	121	48.667	0.03027	89.3	ppb
	Sb-KED2	123	42.998	0.03513	26.5	ppb
	Ba-KED2	135	8.000	-0.00154	1108.4	ppb
	Ba-KED2	137	7.667	0.00396	495.2	ppb
>	Lu-KED2	175	79639.074			ppb
	Tl-KED2	203	16.667	0.00221	136.5	ppb
	Tl-KED2	205	37.000	0.00102	229.8	ppb
	Pb-KED2	208	219.334	0.02199	107.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		93			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		92			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		97			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		94			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB
Report Date/Time: Tuesday, August 25, 2015 09:02:52
Page 2

LABWORKS - Summary Report

Sample ID: K1508597-001D
Sample Date/Time: Monday, August 24, 2015 19:56:33
Sample Description: 5
Autosampler Position: 310
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001D.024
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	855783.071			ppb
	Be-STD1	9	2780.272	0.50281	6.8	ppb
	Mn-STD1	55	16013071.035	624.40382	3.9	ppb
	Cr-KED3	52	8985.831	17.83066	10.7	ppb
	Cr-KED3	53	1478.077	21.41785	7.5	ppb
	Co-KED3	59	21071.875	16.69634	3.2	ppb
	Ni-KED3	60	7984.565	20.12267	8.0	ppb
	Ni-KED3	62	1352.731	20.59477	6.6	ppb
	Cu-KED3	63	38639.578	32.22960	1.4	ppb
	Cu-KED3	65	19009.312	32.76352	7.3	ppb
	Zn-KED3	66	7353.894	78.54887	8.0	ppb
>	Ge-KED3	72	19125.482			ppb
>	Ge-KED2	72	59867.892			ppb
	As-KED2	75	2419.538	16.57935	1.1	ppb
>	Ge-KED1	72	323312.295			ppb
	Se-KED1	77	388.005	1.45508	21.6	ppb
	Se-KED1	78	48.450	0.21158	19.4	ppb
	Mo-KED2	95	809.356	0.94754	1.7	ppb
	Mo-KED2	97	538.677	0.98638	6.5	ppb
	Mo-KED2	98	1359.106	0.95452	3.9	ppb
	Ag-KED2	107	254.336	0.07411	1.3	ppb
	Ag-KED2	109	240.669	0.07157	12.6	ppb
	Cd-KED2	111	73.000	0.20361	20.2	ppb
	Cd-KED2	114	160.925	0.19019	23.4	ppb
>	In-KED2	115	19715.295			ppb
	Sb-KED2	121	222.002	0.34897	13.9	ppb
	Sb-KED2	123	174.290	0.33354	10.5	ppb
	Ba-KED2	135	32935.943	161.26333	2.9	ppb
	Ba-KED2	137	62765.581	162.45308	0.2	ppb
>	Lu-KED2	175	81954.078			ppb
	Tl-KED2	203	678.683	0.23707	3.9	ppb
	Tl-KED2	205	1691.767	0.24764	2.2	ppb
	Pb-KED2	208	57948.448	7.06368	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		101			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		95			
⌈>	Ge-KED2	72		93			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		93			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		90			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		97			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001L
Sample Date/Time: Monday, August 24, 2015 20:01:01
Sample Description: 25
Autosampler Position: 311
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001L.025
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	860208.835			ppb
	Be-STD1	9	588.012	0.10275	12.7	ppb
	Mn-STD1	55	3137346.919	121.62026	5.0	ppb
	Cr-KED3	52	1880.124	3.70826	8.8	ppb
	Cr-KED3	53	344.004	4.32884	6.5	ppb
	Co-KED3	59	4218.292	3.34850	4.3	ppb
	Ni-KED3	60	1607.424	4.05761	7.6	ppb
	Ni-KED3	62	259.336	3.96606	12.9	ppb
	Cu-KED3	63	8355.116	6.96024	3.0	ppb
	Cu-KED3	65	4222.958	7.27032	5.8	ppb
	Zn-KED3	66	1468.075	15.60631	6.8	ppb
>	Ge-KED3	72	19032.682			ppb
>	Ge-KED2	72	60324.477			ppb
	As-KED2	75	554.011	3.32534	6.0	ppb
>	Ge-KED1	72	337033.935			ppb
	Se-KED1	77	319.337	-0.22279	273.2	ppb
	Se-KED1	78	17.110	0.02826	63.4	ppb
	Mo-KED2	95	162.668	0.17112	20.3	ppb
	Mo-KED2	97	111.334	0.18653	9.0	ppb
	Mo-KED2	98	279.710	0.17599	5.6	ppb
	Ag-KED2	107	54.667	0.01248	11.1	ppb
	Ag-KED2	109	50.000	0.01076	20.4	ppb
	Cd-KED2	111	18.333	0.04195	76.7	ppb
	Cd-KED2	114	29.031	0.02613	33.0	ppb
>	In-KED2	115	19923.009			ppb
	Sb-KED2	121	84.000	0.09239	27.8	ppb
	Sb-KED2	123	57.163	0.06464	8.7	ppb
	Ba-KED2	135	6426.112	31.10202	1.5	ppb
	Ba-KED2	137	11999.705	30.72098	1.4	ppb
>	Lu-KED2	175	83005.453			ppb
	Tl-KED2	203	138.667	0.04471	3.3	ppb
	Tl-KED2	205	302.670	0.03989	3.1	ppb
	Pb-KED2	208	12385.399	1.48619	2.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		102			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		94			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		97			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		91			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		98			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001A
Sample Date/Time: Monday, August 24, 2015 20:05:29
Sample Description: 5 +50ppb +10ppb Ag
Autosampler Position: 312
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001A.026
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	847312.600			ppb
	Be-STD1	9	262159.582	48.27962	3.2	ppb
	Mn-STD1	55	16085350.358	632.92952	2.3	ppb
	Cr-KED3	52	33141.870	66.09538	9.4	ppb
	Cr-KED3	53	4725.449	70.87681	3.0	ppb
	Co-KED3	59	79006.096	62.90001	2.6	ppb
	Ni-KED3	60	24909.444	63.06208	9.4	ppb
	Ni-KED3	62	4064.579	62.17876	5.5	ppb
	Cu-KED3	63	91509.587	76.74207	4.3	ppb
	Cu-KED3	65	44170.190	76.43891	2.0	ppb
	Zn-KED3	66	11382.872	122.12533	6.0	ppb
>	Ge-KED3	72	19020.991			ppb
>	Ge-KED2	72	56736.109			ppb
	As-KED2	75	8999.504	66.75494	3.8	ppb
>	Ge-KED1	72	314041.810			ppb
	Se-KED1	77	3054.329	56.74809	5.0	ppb
	Se-KED1	78	8483.876	50.44883	6.1	ppb
	Mo-KED2	95	40191.795	49.06567	0.6	ppb
	Mo-KED2	97	25623.642	48.75169	2.3	ppb
	Mo-KED2	98	65547.454	48.07003	2.0	ppb
	Ag-KED2	107	29819.429	9.35606	1.2	ppb
	Ag-KED2	109	28995.075	9.40154	1.4	ppb
	Cd-KED2	111	16189.836	48.65551	1.2	ppb
	Cd-KED2	114	38021.560	48.11410	0.8	ppb
>	In-KED2	115	19331.012			ppb
	Sb-KED2	121	25989.632	48.90440	1.5	ppb
	Sb-KED2	123	20318.312	47.26659	0.7	ppb
	Ba-KED2	135	39869.572	199.09176	1.1	ppb
	Ba-KED2	137	75377.387	198.99585	2.2	ppb
>	Lu-KED2	175	81214.919			ppb
	Tl-KED2	203	126161.565	45.20960	3.3	ppb
	Tl-KED2	205	302242.857	45.48981	1.5	ppb
	Pb-KED2	208	435425.565	53.60419	1.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		100			
|	Be-STD1	9				96	
⌊	Mn-STD1	55				94	
⌈	Cr-KED3	52				96	
|	Cr-KED3	53				97	
|	Co-KED3	59				93	
|	Ni-KED3	60				89	
|	Ni-KED3	62				85	
|	Cu-KED3	63				87	
|	Cu-KED3	65				84	
|	Zn-KED3	66				94	
⌊>	Ge-KED3	72		94			
⌈>	Ge-KED2	72		88			
⌊	As-KED2	75				102	
⌈>	Ge-KED1	72		91			
|	Se-KED1	77				113	
⌊	Se-KED1	78				100	
⌈	Mo-KED2	95				96	
|	Mo-KED2	97				96	
|	Mo-KED2	98				94	
|	Ag-KED2	107				93	
|	Ag-KED2	109				93	
|	Cd-KED2	111				97	
|	Cd-KED2	114				96	
|>	In-KED2	115		89			
|	Sb-KED2	121				97	
|	Sb-KED2	123				94	
|	Ba-KED2	135				88	
⌊	Ba-KED2	137				94	
⌈>	Lu-KED2	175		96			
|	Tl-KED2	203				90	
|	Tl-KED2	205				91	
⌊	Pb-KED2	208				93	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-001S
Sample Date/Time: Monday, August 24, 2015 20:09:57
Sample Description: 5
Autosampler Position: 313
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-001S.027
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	839366.618			ppb
	Be-STD1	9	108495.136	20.16315	4.6	ppb
	Mn-STD1	55	18115965.651	719.95228	5.5	ppb
	Cr-KED3	52	43927.814	91.21593	8.3	ppb
	Cr-KED3	53	5653.790	88.31880	2.5	ppb
	Co-KED3	59	257098.308	212.61652	3.9	ppb
	Ni-KED3	60	78824.966	207.71699	7.6	ppb
	Ni-KED3	62	12720.999	202.32037	2.7	ppb
	Cu-KED3	63	142039.296	123.84654	1.5	ppb
	Cu-KED3	65	72589.090	130.74172	4.9	ppb
	Zn-KED3	66	21466.135	240.06520	8.9	ppb
>	Ge-KED3	72	18300.401			ppb
>	Ge-KED2	72	56458.683			ppb
	As-KED2	75	29011.769	217.59298	2.5	ppb
>	Ge-KED1	72	303033.854			ppb
	Se-KED1	77	10858.141	226.43004	1.7	ppb
	Se-KED1	78	34718.601	214.06515	4.5	ppb
	Mo-KED2	95	164781.013	205.10355	1.0	ppb
	Mo-KED2	97	102558.195	198.96829	0.7	ppb
	Mo-KED2	98	263533.906	197.03784	0.5	ppb
	Ag-KED2	107	60549.051	19.37006	1.4	ppb
	Ag-KED2	109	57576.162	19.03508	1.6	ppb
	Cd-KED2	111	6590.520	20.18104	1.8	ppb
	Cd-KED2	114	15267.641	19.68772	1.8	ppb
>	In-KED2	115	18964.776			ppb
	Sb-KED2	121	61970.794	118.96539	0.6	ppb
	Sb-KED2	123	48313.183	114.64790	0.2	ppb
	Ba-KED2	135	116794.195	594.61553	1.6	ppb
	Ba-KED2	137	220518.607	593.37128	1.3	ppb
>	Lu-KED2	175	81585.642			ppb
	Tl-KED2	203	526537.776	187.79946	1.2	ppb
	Tl-KED2	205	1263345.052	189.26908	1.6	ppb
	Pb-KED2	208	1623115.336	198.89921	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9				98	
	Mn-STD1	55				67	
	Cr-KED3	52				91	
	Cr-KED3	53				82	
	Co-KED3	59				98	
	Ni-KED3	60				94	
	Ni-KED3	62				91	
	Cu-KED3	63				91	
	Cu-KED3	65				96	
	Zn-KED3	66				83	
>	Ge-KED3	72		91			
>	Ge-KED2	72		88			
	As-KED2	75				101	
>	Ge-KED1	72		87			
	Se-KED1	77				113	
	Se-KED1	78				107	
	Mo-KED2	95				102	
	Mo-KED2	97				99	
	Mo-KED2	98				98	
	Ag-KED2	107				96	
	Ag-KED2	109				95	
	Cd-KED2	111				100	
	Cd-KED2	114				98	
>	In-KED2	115		87			
	Sb-KED2	121				59	
	Sb-KED2	123				57	
	Ba-KED2	135				110	
	Ba-KED2	137				110	
>	Lu-KED2	175		96			
	Tl-KED2	203				94	
	Tl-KED2	205				95	
	Pb-KED2	208				96	

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-002
Sample Date/Time: Monday, August 24, 2015 20:14:25
Sample Description: 5
Autosampler Position: 314
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-002.028
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	836168.358			ppb
	Be-STD1	9	2732.928	0.50588	1.8	ppb
	Mn-STD1	55	19404027.101	773.79333	1.6	ppb
	Cr-KED3	52	6392.766	12.99467	5.6	ppb
	Cr-KED3	53	1183.382	17.51449	6.5	ppb
	Co-KED3	59	17419.951	14.18693	2.2	ppb
	Ni-KED3	60	5623.108	14.55572	8.2	ppb
	Ni-KED3	62	970.033	15.16973	7.5	ppb
	Cu-KED3	63	33268.739	28.51808	1.8	ppb
	Cu-KED3	65	16354.692	28.94858	5.2	ppb
	Zn-KED3	66	6397.769	70.13986	7.3	ppb
>	Ge-KED3	72	18598.776			ppb
>	Ge-KED2	72	58071.130			ppb
	As-KED2	75	1754.441	12.25128	2.8	ppb
>	Ge-KED1	72	320960.593			ppb
	Se-KED1	77	357.338	0.84174	112.8	ppb
	Se-KED1	78	51.895	0.23534	35.9	ppb
	Mo-KED2	95	1275.390	1.51835	4.3	ppb
	Mo-KED2	97	800.022	1.48724	5.3	ppb
	Mo-KED2	98	2067.492	1.47834	7.2	ppb
	Ag-KED2	107	286.003	0.08471	9.0	ppb
	Ag-KED2	109	275.669	0.08316	6.8	ppb
	Cd-KED2	111	56.333	0.15520	11.4	ppb
	Cd-KED2	114	126.709	0.14913	6.6	ppb
>	In-KED2	115	19575.189			ppb
	Sb-KED2	121	214.002	0.33851	13.4	ppb
	Sb-KED2	123	178.871	0.34805	13.3	ppb
	Ba-KED2	135	27610.661	136.45112	6.5	ppb
	Ba-KED2	137	52236.358	136.41484	5.6	ppb
>	Lu-KED2	175	81241.018			ppb
	Tl-KED2	203	874.694	0.30940	7.2	ppb
	Tl-KED2	205	2052.814	0.30416	5.4	ppb
	Pb-KED2	208	53703.438	6.60300	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		92			
>	Ge-KED2	72		90			
	As-KED2	75					
>	Ge-KED1	72		93			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		90			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		96			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-003
Sample Date/Time: Monday, August 24, 2015 20:18:53
Sample Description: 5
Autosampler Position: 315
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-003.029
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	859119.574			ppb
	Be-STD1	9	4342.661	0.78475	5.2	ppb
	Mn-STD1	55	30834046.556	1196.87788	1.1	ppb
	Cr-KED3	52	14604.136	30.55694	7.6	ppb
	Cr-KED3	53	2281.516	35.53644	6.8	ppb
	Co-KED3	59	28408.963	23.71764	2.8	ppb
	Ni-KED3	60	14390.584	38.20798	5.0	ppb
	Ni-KED3	62	2280.182	36.61568	6.2	ppb
	Cu-KED3	63	59418.122	52.29709	1.1	ppb
	Cu-KED3	65	30681.284	55.69050	1.9	ppb
	Zn-KED3	66	9596.227	108.17171	8.6	ppb
>	Ge-KED3	72	18128.173			ppb
>	Ge-KED2	72	57215.726			ppb
	As-KED2	75	3444.749	24.98915	1.7	ppb
>	Ge-KED1	72	311258.148			ppb
	Se-KED1	77	364.671	1.27592	29.9	ppb
	Se-KED1	78	73.682	0.37797	17.2	ppb
	Mo-KED2	95	1544.750	1.86638	4.4	ppb
	Mo-KED2	97	958.699	1.80749	2.6	ppb
	Mo-KED2	98	2565.271	1.86020	1.1	ppb
	Ag-KED2	107	483.008	0.14761	5.3	ppb
	Ag-KED2	109	434.340	0.13606	1.8	ppb
	Cd-KED2	111	185.335	0.54615	6.4	ppb
	Cd-KED2	114	397.794	0.49416	5.8	ppb
>	In-KED2	115	19316.297			ppb
	Sb-KED2	121	472.674	0.83022	3.3	ppb
	Sb-KED2	123	357.210	0.76781	7.3	ppb
	Ba-KED2	135	57297.373	286.34439	1.1	ppb
	Ba-KED2	137	107557.844	284.12798	1.2	ppb
>	Lu-KED2	175	81552.893			ppb
	Tl-KED2	203	873.360	0.30803	6.5	ppb
	Tl-KED2	205	2085.152	0.30794	3.0	ppb
	Pb-KED2	208	88467.206	10.84276	1.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		101			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		90			
>	Ge-KED2	72		89			
	As-KED2	75					
>	Ge-KED1	72		90			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		89			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		96			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508597-004
Sample Date/Time: Monday, August 24, 2015 20:23:21
Sample Description: 5
Autosampler Position: 316
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508597-004.030
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	841840.678			ppb
	Be-STD1	9	2557.563	0.47007	6.8	ppb
	Mn-STD1	55	19103206.497	756.95391	4.2	ppb
	Cr-KED3	52	12336.663	25.04862	6.5	ppb
	Cr-KED3	53	2043.480	30.76841	3.3	ppb
	Co-KED3	59	20780.797	16.85451	2.4	ppb
	Ni-KED3	60	9605.895	24.76471	3.4	ppb
	Ni-KED3	62	1620.092	25.28243	8.8	ppb
	Cu-KED3	63	44171.562	37.78350	4.8	ppb
	Cu-KED3	65	21335.608	37.61046	3.8	ppb
	Zn-KED3	66	7247.173	79.23634	6.8	ppb
>	Ge-KED3	72	18660.853			ppb
>	Ge-KED2	72	57665.157			ppb
	As-KED2	75	2293.851	16.31018	4.4	ppb
>	Ge-KED1	72	320225.600			ppb
	Se-KED1	77	398.672	1.72858	14.8	ppb
	Se-KED1	78	50.470	0.22711	4.2	ppb
	Mo-KED2	95	1023.370	1.22256	4.4	ppb
	Mo-KED2	97	610.680	1.13892	7.3	ppb
	Mo-KED2	98	1612.986	1.15530	4.7	ppb
	Ag-KED2	107	433.340	0.13116	4.8	ppb
	Ag-KED2	109	379.672	0.11755	6.1	ppb
	Cd-KED2	111	121.334	0.35155	1.8	ppb
	Cd-KED2	114	259.895	0.31795	2.5	ppb
>	In-KED2	115	19420.507			ppb
	Sb-KED2	121	246.002	0.39986	7.9	ppb
	Sb-KED2	123	211.333	0.42535	3.1	ppb
	Ba-KED2	135	34670.026	172.34555	1.6	ppb
	Ba-KED2	137	65120.428	171.12207	0.9	ppb
>	Lu-KED2	175	82200.165			ppb
	Tl-KED2	203	556.011	0.19293	6.0	ppb
	Tl-KED2	205	1331.395	0.19334	3.1	ppb
	Pb-KED2	208	66444.037	8.07574	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		92			
⌈>	Ge-KED2	72		90			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		92			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		89			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		97			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508690-013
Sample Date/Time: Monday, August 24, 2015 20:27:49
Sample Description: 5
Autosampler Position: 317
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508690-013.031
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	815391.134			ppb
	Be-STD1	9	8766.024	1.67371	2.3	ppb
	Mn-STD1	55	14845806.955	607.77761	5.2	ppb
	Cr-KED3	52	28238.264	63.40336	8.3	ppb
	Cr-KED3	53	4279.309	72.25917	4.1	ppb
	Co-KED3	59	28740.565	25.76645	4.4	ppb
	Ni-KED3	60	15628.558	44.54192	8.1	ppb
	Ni-KED3	62	2608.905	44.91804	6.1	ppb
	Cu-KED3	63	124988.813	118.03597	0.0	ppb
	Cu-KED3	65	62417.471	121.70563	6.0	ppb
	Zn-KED3	66	27607.682	333.59104	5.3	ppb
>	Ge-KED3	72	16904.003			ppb
>	Ge-KED2	72	53897.161			ppb
	As-KED2	75	3547.107	27.36681	1.2	ppb
>	Ge-KED1	72	296425.980			ppb
	Se-KED1	77	488.675	4.37105	17.2	ppb
	Se-KED1	78	245.173	1.48120	10.0	ppb
	Mo-KED2	95	1522.748	1.95373	1.5	ppb
	Mo-KED2	97	1052.039	2.10984	6.4	ppb
	Mo-KED2	98	2478.745	1.90849	6.3	ppb
	Ag-KED2	107	1281.391	0.42345	3.7	ppb
	Ag-KED2	109	1238.720	0.42198	0.9	ppb
	Cd-KED2	111	547.344	1.73802	7.6	ppb
	Cd-KED2	114	1299.067	1.73776	1.8	ppb
>	In-KED2	115	18194.490			ppb
	Sb-KED2	121	224.002	0.38675	16.2	ppb
	Sb-KED2	123	168.456	0.35156	13.4	ppb
	Ba-KED2	135	22021.633	116.85905	2.9	ppb
	Ba-KED2	137	41300.620	115.88676	3.1	ppb
>	Lu-KED2	175	80600.739			ppb
	Tl-KED2	203	1610.757	0.57762	0.4	ppb
	Tl-KED2	205	3800.505	0.57165	0.4	ppb
	Pb-KED2	208	325146.853	40.32511	0.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		96			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		84			
⌈>	Ge-KED2	72		84			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		85			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		83			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508690-014
Sample Date/Time: Monday, August 24, 2015 20:32:17
Sample Description: 5
Autosampler Position: 318
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508690-014.032
User Name: RRM
Batch ID:

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
Li-STD1	6	832928.747			ppb
Be-STD1	9	9101.567	1.70139	3.0	ppb
Mn-STD1	55	15751473.023	631.03339	4.1	ppb
Cr-KED3	52	29035.489	67.46070	4.9	ppb
Cr-KED3	53	4249.966	74.36345	1.2	ppb
Co-KED3	59	30395.399	28.18963	4.7	ppb
Ni-KED3	60	15585.840	45.97020	6.1	ppb
Ni-KED3	62	2492.218	44.44425	6.9	ppb
Cu-KED3	63	132992.368	129.99635	5.0	ppb
Cu-KED3	65	68791.085	138.78992	4.2	ppb
Zn-KED3	66	28492.427	356.78952	7.2	ppb
Ge-KED3	72	16319.653			ppb
Ge-KED2	72	52356.776			ppb
As-KED2	75	3505.763	27.85551	2.2	ppb
Ge-KED1	72	295771.592			ppb
Se-KED1	77	479.342	4.16847	38.5	ppb
Se-KED1	78	257.093	1.55291	9.7	ppb
Mo-KED2	95	1339.396	1.75831	3.4	ppb
Mo-KED2	97	837.358	1.71363	3.6	ppb
Mo-KED2	98	2179.436	1.71610	2.5	ppb
Ag-KED2	107	1405.403	0.47594	5.0	ppb
Ag-KED2	109	1321.394	0.46166	5.3	ppb
Cd-KED2	111	726.685	2.36464	3.9	ppb
Cd-KED2	114	1731.451	2.37380	0.9	ppb
In-KED2	115	17773.442			ppb
Sb-KED2	121	237.335	0.42555	20.5	ppb
Sb-KED2	123	207.663	0.46257	17.7	ppb
Ba-KED2	135	23432.541	127.33332	4.3	ppb
Ba-KED2	137	44287.208	127.19190	2.5	ppb
Lu-KED2	175	79113.807			ppb
Tl-KED2	203	1724.771	0.63049	0.7	ppb
Tl-KED2	205	4131.598	0.63358	1.4	ppb
Pb-KED2	208	366326.331	46.28970	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		81			
>	Ge-KED2	72		81			
	As-KED2	75					
>	Ge-KED1	72		85			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		81			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		94			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508752-001
Sample Date/Time: Monday, August 24, 2015 20:36:45
Sample Description: 5
Autosampler Position: 319
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\K1508752-001.033
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	785146.038			ppb
	Be-STD1	9	6880.324	1.36372	3.1	ppb
	Mn-STD1	55	13482703.678	573.08647	4.8	ppb
	Cr-KED3	52	41458.326	86.60534	12.7	ppb
	Cr-KED3	53	5818.523	91.51869	7.8	ppb
	Co-KED3	59	14991.197	12.47583	3.2	ppb
	Ni-KED3	60	31846.168	84.36814	9.4	ppb
	Ni-KED3	62	5516.400	88.30907	8.7	ppb
	Cu-KED3	63	1420369.584	1245.72726	1.8	ppb
	Cu-KED3	65	687243.130	1244.59389	5.5	ppb
	Zn-KED3	66	168877.372	1898.43977	8.6	ppb
>	Ge-KED3	72	18210.952			ppb
>	Ge-KED2	72	55525.365			ppb
	As-KED2	75	962.699	6.78525	3.1	ppb
>	Ge-KED1	72	318063.373			ppb
	Se-KED1	77	1310.060	20.36778	1.9	ppb
	Se-KED1	78	2876.214	16.80225	2.8	ppb
	Mo-KED2	95	27765.631	34.55888	2.0	ppb
	Mo-KED2	97	17755.699	34.45122	2.7	ppb
	Mo-KED2	98	45440.573	33.97131	1.1	ppb
	Ag-KED2	107	21914.465	7.01085	1.2	ppb
	Ag-KED2	109	21309.883	7.04592	0.4	ppb
	Cd-KED2	111	861.693	2.62989	0.5	ppb
	Cd-KED2	114	2023.183	2.60202	1.8	ppb
>	In-KED2	115	18955.282			ppb
	Sb-KED2	121	1758.775	3.31864	1.5	ppb
	Sb-KED2	123	1404.566	3.27192	1.3	ppb
	Ba-KED2	135	95962.102	488.73548	2.8	ppb
	Ba-KED2	137	182921.517	492.44847	1.2	ppb
>	Lu-KED2	175	79865.649			ppb
	Tl-KED2	203	1116.044	0.40265	3.2	ppb
	Tl-KED2	205	2587.901	0.39136	2.1	ppb
	Pb-KED2	208	315022.309	39.42844	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		93			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		90			
⌈>	Ge-KED2	72		86			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		92			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		87			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		94			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Monday, August 24, 2015 20:41:15
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\CCV.034
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
⌈>	Li-STD1	6	841790.940			ppb
|	Be-STD1	9	148251.902	27.48205	4.2	ppb
⌊	Mn-STD1	55	668267.698	26.38248	3.1	ppb
⌈	Cr-KED3	52	12130.485	24.06197	6.4	ppb
|	Cr-KED3	53	1548.084	22.51901	1.2	ppb
|	Co-KED3	59	32011.943	25.36882	5.3	ppb
|	Ni-KED3	60	9774.011	24.62673	5.7	ppb
|	Ni-KED3	62	1546.750	23.56408	5.8	ppb
|	Cu-KED3	63	29197.824	24.36542	0.8	ppb
|	Cu-KED3	65	14906.448	25.66450	4.4	ppb
|	Zn-KED3	66	2345.860	24.93025	6.4	ppb
⌊>	Ge-KED3	72	19103.441			ppb
⌈>	Ge-KED2	72	63196.576			ppb
⌊	As-KED2	75	3805.173	24.99984	2.8	ppb
⌈>	Ge-KED1	72	369985.674			ppb
|	Se-KED1	77	1774.777	24.80085	4.1	ppb
⌊	Se-KED1	78	5114.318	25.71424	2.3	ppb
⌈	Mo-KED2	95	22191.891	26.06389	0.8	ppb
|	Mo-KED2	97	14235.756	26.06244	0.5	ppb
|	Mo-KED2	98	36349.172	25.64263	2.7	ppb
|	Ag-KED2	107	81753.658	24.69422	1.8	ppb
|	Ag-KED2	109	79421.935	24.79638	2.7	ppb
|	Cd-KED2	111	8608.593	24.89359	0.4	ppb
|	Cd-KED2	114	20482.519	24.94172	1.0	ppb
|>	In-KED2	115	20084.706			ppb
|	Sb-KED2	121	14001.525	25.33192	1.0	ppb
|	Sb-KED2	123	11232.947	25.11916	1.7	ppb
|	Ba-KED2	135	5247.631	25.18510	2.4	ppb
⌊	Ba-KED2	137	9793.689	24.86858	0.4	ppb
⌈>	Lu-KED2	175	80631.585			ppb
|	Tl-KED2	203	69077.321	24.92810	2.7	ppb
|	Tl-KED2	205	164336.183	24.90876	2.9	ppb
⌊	Pb-KED2	208	204354.904	25.33131	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		99		
|	Be-STD1	9	110			
⌊	Mn-STD1	55	106			
⌈	Cr-KED3	52	96			
|	Cr-KED3	53	90			
|	Co-KED3	59	101			
|	Ni-KED3	60	99			
|	Ni-KED3	62	94			
|	Cu-KED3	63	97			
|	Cu-KED3	65	103			
|	Zn-KED3	66	100			
⌊>	Ge-KED3	72		95		
⌈>	Ge-KED2	72		98		
⌊	As-KED2	75	100			
⌈>	Ge-KED1	72		107		
|	Se-KED1	77	99			
⌊	Se-KED1	78	103			
⌈	Mo-KED2	95	104			
|	Mo-KED2	97	104			
|	Mo-KED2	98	103			
|	Ag-KED2	107	99			
|	Ag-KED2	109	99			
|	Cd-KED2	111	100			
|	Cd-KED2	114	100			
|>	In-KED2	115		92		
|	Sb-KED2	121	101			
|	Sb-KED2	123	100			
|	Ba-KED2	135	101			
⌊	Ba-KED2	137	99			
⌈>	Lu-KED2	175		95		
|	Tl-KED2	203	100			
|	Tl-KED2	205	100			
⌊	Pb-KED2	208	101			

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV
Report Date/Time: Tuesday, August 25, 2015 09:03:22
Page 2

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 20:45:43
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082415D\CCB.035
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	825298.010			ppb
	Be-STD1	9	23.333	0.00036	89.5	ppb
	Mn-STD1	55	5759.161	0.12967	9.3	ppb
	Cr-KED3	52	23.000	-0.00081	749.6	ppb
	Cr-KED3	53	40.000	-0.31435	104.4	ppb
	Co-KED3	59	14.000	0.00459	85.6	ppb
	Ni-KED3	60	8.000	0.00644	86.8	ppb
	Ni-KED3	62	2.000	0.01904	147.2	ppb
	Cu-KED3	63	72.667	0.01163	82.0	ppb
	Cu-KED3	65	43.000	0.02932	55.0	ppb
	Zn-KED3	66	19.667	0.02970	117.9	ppb
>	Ge-KED3	72	19961.281			ppb
>	Ge-KED2	72	62459.939			ppb
	As-KED2	75	67.333	-0.11609	78.4	ppb
>	Ge-KED1	72	352711.232			ppb
	Se-KED1	77	272.669	-1.37856	63.1	ppb
	Se-KED1	78	10.453	-0.01184	76.5	ppb
	Mo-KED2	95	6.667	-0.01370	26.8	ppb
	Mo-KED2	97	5.333	-0.00927	20.9	ppb
	Mo-KED2	98	13.488	-0.01348	3.2	ppb
	Ag-KED2	107	36.667	0.00694	59.4	ppb
	Ag-KED2	109	30.000	0.00443	72.1	ppb
	Cd-KED2	111	4.000	0.00026	2370.1	ppb
	Cd-KED2	114	4.216	-0.00434	35.0	ppb
>	In-KED2	115	19894.943			ppb
	Sb-KED2	121	69.334	0.06564	8.8	ppb
	Sb-KED2	123	57.748	0.06647	26.2	ppb
	Ba-KED2	135	2.000	-0.03167	30.7	ppb
	Ba-KED2	137	7.000	0.00157	992.6	ppb
>	Lu-KED2	175	80080.836			ppb
	Tl-KED2	203	8.667	-0.00075	52.1	ppb
	Tl-KED2	205	23.667	-0.00105	133.3	ppb
	Pb-KED2	208	38.667	-0.00084	263.0	ppb

Rem
8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		97			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		99			
>	Ge-KED2	72		97			
	As-KED2	75					
>	Ge-KED1	72		102			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		91			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Mn-STD1	55	Out of Control
QC Std 4	Sb-KED2	121	Out of Control

8/25/15

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Monday, August 24, 2015 20:50:01
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\CCB.036
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	809424.792			ppb
	Be-STD1	9	14.000	-0.00136	97.0	ppb
	Mn-STD1	55	1594.756	-0.03768	5.3	ppb
	Cr-KED3	52	18.333	-0.00886	96.2	ppb
	Cr-KED3	53	36.667	-0.34668	70.0	ppb
	Co-KED3	59	5.333	-0.00186	46.6	ppb
	Ni-KED3	60	3.667	-0.00364	106.3	ppb
	Ni-KED3	62	1.333	0.01016	168.9	ppb
	Cu-KED3	63	30.667	-0.02122	8.6	ppb
	Cu-KED3	65	14.333	-0.01757	24.9	ppb
	Zn-KED3	66	11.000	-0.05622	84.7	ppb
>	Ge-KED3	72	19485.964			ppb
>	Ge-KED2	72	62297.901			ppb
	As-KED2	75	63.000	-0.14495	38.5	ppb
>	Ge-KED1	72	348443.689			ppb
	Se-KED1	77	278.669	-1.18503	52.0	ppb
	Se-KED1	78	9.514	-0.01645	94.3	ppb
	Mo-KED2	95	6.000	-0.01467	15.6	ppb
	Mo-KED2	97	4.667	-0.01065	39.5	ppb
	Mo-KED2	98	7.342	-0.01800	19.7	ppb
	Ag-KED2	107	10.667	-0.00099	121.5	ppb
	Ag-KED2	109	8.000	-0.00251	20.8	ppb
	Cd-KED2	111	4.333	0.00082	866.5	ppb
	Cd-KED2	114	3.022	-0.00588	34.7	ppb
>	In-KED2	115	20324.784			ppb
	Sb-KED2	121	40.000	0.01043	235.0	ppb
	Sb-KED2	123	43.082	0.03085	28.2	ppb
	Ba-KED2	135	3.333	-0.02540	57.5	ppb
	Ba-KED2	137	4.000	-0.00632	118.6	ppb
>	Lu-KED2	175	80369.443			ppb
	Tl-KED2	203	8.667	-0.00076	146.0	ppb
	Tl-KED2	205	14.333	-0.00249	40.1	ppb
	Pb-KED2	208	22.000	-0.00294	52.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		96			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		97			
>	Ge-KED2	72		97			
	As-KED2	75					
>	Ge-KED1	72		100			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		93			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		95			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB
Report Date/Time: Tuesday, August 25, 2015 09:03:27
Page 2

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Monday, August 24, 2015 20:54:29
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\LLCCVS.037
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	773062.704			ppb
	Be-STD1	9	250.669	0.04651	3.5	ppb
	Mn-STD1	55	4489.373	0.09024	3.1	ppb
	Cr-KED3	52	227.002	0.39913	2.2	ppb
	Cr-KED3	53	84.667	0.36654	63.8	ppb
	Co-KED3	59	57.000	0.03872	28.3	ppb
	Ni-KED3	60	169.001	0.40796	16.1	ppb
	Ni-KED3	62	37.333	0.55032	21.9	ppb
	Cu-KED3	63	281.336	0.18523	1.2	ppb
	Cu-KED3	65	143.001	0.20145	15.1	ppb
	Zn-KED3	66	109.667	0.98244	11.1	ppb
>	Ge-KED3	72	19393.164			ppb
>	Ge-KED2	72	64191.271			ppb
	As-KED2	75	212.668	0.83358	22.0	ppb
>	Ge-KED1	72	350613.420			ppb
	Se-KED1	77	408.673	1.20118	29.0	ppb
	Se-KED1	78	383.802	1.97279	5.3	ppb
	Mo-KED2	95	94.667	0.08848	11.1	ppb
	Mo-KED2	97	57.333	0.08483	11.1	ppb
	Mo-KED2	98	153.489	0.08409	16.5	ppb
	Ag-KED2	107	136.001	0.03648	7.6	ppb
	Ag-KED2	109	156.668	0.04342	5.1	ppb
	Cd-KED2	111	11.000	0.01992	49.0	ppb
	Cd-KED2	114	42.005	0.04111	10.5	ppb
>	In-KED2	115	20301.046			ppb
	Sb-KED2	121	81.334	0.08470	15.2	ppb
	Sb-KED2	123	73.748	0.09904	20.1	ppb
	Ba-KED2	135	28.667	0.09511	23.7	ppb
	Ba-KED2	137	37.667	0.07826	26.1	ppb
>	Lu-KED2	175	80105.302			ppb
	Tl-KED2	203	122.667	0.04070	21.3	ppb
	Tl-KED2	205	294.336	0.04024	1.4	ppb
	Pb-KED2	208	846.677	0.09997	8.0	ppb

Rem
8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		91			
|	Be-STD1	9	116				
⌊	Mn-STD1	55	90				
⌈	Cr-KED3	52	100				
|	Cr-KED3	53	92				
|	Co-KED3	59	97				
|	Ni-KED3	60	102				
|	Ni-KED3	62	138				
|	Cu-KED3	63	93				
|	Cu-KED3	65	101				
|	Zn-KED3	66	98				
⌊>	Ge-KED3	72		96			
⌈>	Ge-KED2	72		100			
⌊	As-KED2	75	83				
⌈>	Ge-KED1	72		101			
|	Se-KED1	77	60				
⌊	Se-KED1	78	99				
⌈	Mo-KED2	95	88				
|	Mo-KED2	97	85				
|	Mo-KED2	98	84				
|	Ag-KED2	107	91				
|	Ag-KED2	109	109				
|	Cd-KED2	111	50				
|	Cd-KED2	114	103				
|>	In-KED2	115		93			
|	Sb-KED2	121	85				
|	Sb-KED2	123	99				
|	Ba-KED2	135	95				
⌊	Ba-KED2	137	78				
⌈>	Lu-KED2	175		95			
|	Tl-KED2	203	102				
|	Tl-KED2	205	101				
⌊	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Ni-KED3	62	Out of Control
QC Std 6	Se-KED1	77	Out of Control
QC Std 6	Cd-KED2	111	Out of Control

8/25/15

Sample ID: LLCCVS
Report Date/Time: Tuesday, August 25, 2015 09:03:30
Page 2

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Monday, August 24, 2015 20:58:50
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082415D\LLCCVS.038
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	819593.627			ppb
	Be-STD1	9	222.002	0.03831	12.1	ppb
	Mn-STD1	55	4349.996	0.07372	9.9	ppb
	Cr-KED3	52	205.668	0.35857	9.6	ppb
	Cr-KED3	53	54.667	-0.07907	228.2	ppb
	Co-KED3	59	60.667	0.04144	8.6	ppb
	Ni-KED3	60	166.668	0.40035	8.3	ppb
	Ni-KED3	62	24.000	0.35110	23.3	ppb
	Cu-KED3	63	262.669	0.17021	9.1	ppb
	Cu-KED3	65	144.667	0.20445	12.1	ppb
	Zn-KED3	66	102.000	0.90310	3.9	ppb
>	Ge-KED3	72	19387.491			ppb
>	Ge-KED2	72	61966.127			ppb
	As-KED2	75	206.668	0.84076	15.2	ppb
>	Ge-KED1	72	353695.553			ppb
	Se-KED1	77	363.338	0.29047	164.4	ppb
	Se-KED1	78	370.176	1.88887	5.0	ppb
	Mo-KED2	95	94.667	0.08924	20.7	ppb
	Mo-KED2	97	58.667	0.08807	17.6	ppb
	Mo-KED2	98	154.302	0.08552	27.2	ppb
	Ag-KED2	107	141.667	0.03848	12.0	ppb
	Ag-KED2	109	147.334	0.04089	6.1	ppb
	Cd-KED2	111	17.667	0.03935	59.0	ppb
	Cd-KED2	114	43.023	0.04273	14.4	ppb
>	In-KED2	115	20147.504			ppb
	Sb-KED2	121	87.334	0.09663	23.0	ppb
	Sb-KED2	123	65.956	0.08292	26.8	ppb
	Ba-KED2	135	23.333	0.07057	21.3	ppb
	Ba-KED2	137	51.667	0.11448	22.2	ppb
>	Lu-KED2	175	80005.743			ppb
	Tl-KED2	203	123.334	0.04097	9.6	ppb
	Tl-KED2	205	312.670	0.04310	3.5	ppb
	Pb-KED2	208	894.011	0.10605	1.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		97			
	Be-STD1	9	96				
	Mn-STD1	55	74				
	Cr-KED3	52	90				
	Cr-KED3	53	-20				
	Co-KED3	59	104				
	Ni-KED3	60	100				
	Ni-KED3	62	88				
	Cu-KED3	63	85				
	Cu-KED3	65	102				
	Zn-KED3	66	90				
>	Ge-KED3	72		96			
>	Ge-KED2	72		96			
	As-KED2	75	84				
>	Ge-KED1	72		102			
	Se-KED1	77	15				
	Se-KED1	78	94				
	Mo-KED2	95	89				
	Mo-KED2	97	88				
	Mo-KED2	98	86				
	Ag-KED2	107	96				
	Ag-KED2	109	102				
	Cd-KED2	111	98				
	Cd-KED2	114	107				
>	In-KED2	115		92			
	Sb-KED2	121	97				
	Sb-KED2	123	83				
	Ba-KED2	135	71				
	Ba-KED2	137	114				
>	Lu-KED2	175		95			
	Tl-KED2	203	102				
	Tl-KED2	205	108				
	Pb-KED2	208	106				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Cr-KED3	53	Out of Control
QC Std 6	Se-KED1	77	Out of Control

Service Request # K1508581 (Cr, Cu, Mn, Zn)
Calibration 082515A
QC in calibration 082515A
QC Service Request # K1508581
STARLIMS run # 459303

6020 ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control (+/-10%)	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control (+/-20%)	X		
7. Spike (+/-25%) and duplicate (<20%) in control	X	*X	
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control (70-125%)	X		
11. Interferences checked	X		
12. Se over MRL		X	
13. LLICV run (70-130%)	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB (+/-20%) in control	X		
16. Serial dilution run	X		
17. Post spike in control (+/-20%)	X		
18. Was run stop prematurely, If so why?		X	

Comments: * High RPD Cu, Mn

Primary Review By: [signature] Date: 8/25/15
Secondary Review By: [signature] Date: 8/26/15

R:\icp\misc\data review forms\icpms review form

Dataset Report

User Name: ALKLS.ALKLSXP373
Computer Name: ALKLSXP373
Dataset File Path: C:\NexIONData\DataSet\082515A\
Report Date/Time: Tuesday, August 25, 2015 12:56:06

The Dataset

Sample ID	Date and Time	Read Type	Description	Batch ID	Samp. File Name
Rinse	10:27:06 Tue 25-Aug-15	Sample			C:\NexIONData\DataSet\082515A\Rinse.001
Rinse	10:34:39 Tue 25-Aug-15	Sample			C:\NexIONData\DataSet\082515A\Rinse.002
Blank	10:39:08 Tue 25-Aug-15	Blank			C:\NexIONData\DataSet\082515A\Blank.003
Standard 1	10:43:36 Tue 25-Aug-15	Standard #1			C:\NexIONData\DataSet\082515A\Standard 1
ICV	10:48:03 Tue 25-Aug-15	QC Std #1			C:\NexIONData\DataSet\082515A\ICV.005
CCV	10:52:32 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.006
ICB	10:57:00 Tue 25-Aug-15	QC Std #3			C:\NexIONData\DataSet\082515A\ICB.007
CCB	11:01:29 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.008
LLICVS	11:05:57 Tue 25-Aug-15	QC Std #5			C:\NexIONData\DataSet\082515A\LLICVS.00
ICSA	11:17:12 Tue 25-Aug-15	QC Std #7			C:\NexIONData\DataSet\082515A\ICSA.010
ICSAB	11:21:40 Tue 25-Aug-15	QC Std #8			C:\NexIONData\DataSet\082515A\ICSAB.011
KQ1509275-14	11:27:57 Tue 25-Aug-15	Sample	5		C:\NexIONData\DataSet\082515A\KQ150927
K1508581-001	11:32:25 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001D	11:36:53 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001L	11:41:21 Tue 25-Aug-15	Sample	250		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001A	11:45:49 Tue 25-Aug-15	Sample	50 +100ppb		C:\NexIONData\DataSet\082515A\K1508581-
K1508581-001S	11:50:17 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
KQ1509275-13	11:54:45 Tue 25-Aug-15	Sample	20		C:\NexIONData\DataSet\082515A\KQ150927
K1508581-002	11:59:13 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1508581-
K1508970-001A	12:03:41 Tue 25-Aug-15	Sample	5 +200ppb		C:\NexIONData\DataSet\082515A\K1508970-
K1509039-001	12:08:09 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
CCV	12:12:40 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.022
CCB	12:17:08 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.023
K1509039-001D	12:21:39 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001L	12:26:06 Tue 25-Aug-15	Sample	250		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001A	12:30:34 Tue 25-Aug-15	Sample	50 +100ppb		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-001S	12:35:02 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
K1509039-002	12:39:30 Tue 25-Aug-15	Sample	50		C:\NexIONData\DataSet\082515A\K1509039-
CCV	12:44:00 Tue 25-Aug-15	QC Std #2			C:\NexIONData\DataSet\082515A\CCV.029
CCB	12:48:28 Tue 25-Aug-15	QC Std #4			C:\NexIONData\DataSet\082515A\CCB.030
LLCCVS	12:52:56 Tue 25-Aug-15	QC Std #6			C:\NexIONData\DataSet\082515A\LLCCVS.0

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\NexIONData\Wizard\SmartTune\CAS SmartTune Full FAST.swz

Optimization Status

Start Time: 8/25/2015 9:23:35 AM

Mass Calibration and Resolution

Optimization Settings:

Method: C:\NexIONData\Method\CAS Tuning.mth.
MassCal File: C:\NexIONData\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.1 for Resolution
Peak height (%) for Res. Opt.: 5

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.744)
Target/Obtained mass (9.0122/9.075), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)
Target/Obtained mass (58.9332/58.975), Target/Obtained resolution (0.7/0.712)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.697)
Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (207.977/207.975), Target/Obtained resolution (0.7/0.705)
Target/Obtained mass (208.98/208.975), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.709)

[Passed] Optimum value(s): N/A

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, August 25, 2015 09:31:42
Sample Description:
Method File: C:\NexION Data\Method\CAS Daily Performance.mth
Dataset File: C:\NexION Data\Dataset\Default\Daily Performance Check.1744
MassCal File: C:\NexION Data\MassCal\Default.tun
Conditions File: C:\NexION Data\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Li	7.0	51039.6	51039.566	830.127	1.6	Standard
	Be	9.0	12155.4	12155.438	302.389	2.5	Standard
	Mg	24.0	66418.0	66417.964	1451.050	2.2	Standard
	Co	58.9	51759.7	51759.663	1531.806	3.0	Standard
	In	114.9	95786.6	95786.609	866.016	0.9	Standard
	Pb	208.0	66349.1	66349.078	400.604	0.6	Standard
	Bi	209.0	56186.8	56186.826	761.996	1.4	Standard
	U	238.1	85011.4	85011.420	1000.593	1.2	Standard
⌈	CeO	155.9	1252.9	0.018	0.001	4.1	Standard
| >	Ce	139.9	70803.6	70803.568	558.243	0.8	Standard
⌊	Ce++	70.0	2518.0	0.036	0.001	3.7	Standard
	Bkgd	220.0	0.1	0.133	0.298	223.6	Standard

Replicates

Repeat 1

Analyte	Mass	Meas. Intensity
Li	7	50838.967
Be	9	11778.854
Mg	24	66806.511
Co	59	53568.247
In	115	95057.207
Pb	208	65659.846
Bi	209	55144.226
U	238	83532.172
CeO	156	1224.719
Ce	140	69982.328
Ce++	70	2618.907
Bkgd	220	0.000

Repeat 2

Analyte	Mass	Meas. Intensity
Li	7	51487.283
Be	9	12049.746
Mg	24	67990.075
Co	59	52646.831
In	115	96356.535
Pb	208	66498.583
Bi	209	56098.598
U	238	86237.508
CeO	156	1240.054
Ce	140	71394.624
Ce++	70	2436.208
Bkgd	220	0.000

Repeat 3

Analyte	Mass	Meas. Intensity
Li	7	50543.923
Be	9	12221.893
Mg	24	67464.258
Co	59	52252.721
In	115	96946.506

Pb	208	66645.367
Bi	209	56347.575
U	238	85524.575
CeO	156	1308.727
Ce	140	70510.918
Ce++	70	2487.550
Bkgd	220	0.000

Repeat 4

Analyte	Mass	Meas. Intensity
Li	7	50105.717
Be	9	12116.469
Mg	24	64611.115
Co	59	50177.970
In	115	95671.957
Pb	208	66587.252
Bi	209	56067.141
U	238	84791.558
CeO	156	1190.050
Ce	140	71050.247
Ce++	70	2463.546
Bkgd	220	0.667

Repeat 5

Analyte	Mass	Meas. Intensity
Li	7	52221.942
Be	9	12610.230
Mg	24	65217.862
Co	59	50152.547
In	115	94900.839
Pb	208	66354.340
Bi	209	57276.592
U	238	84971.288
CeO	156	1300.726
Ce	140	71079.726
Ce++	70	2583.567
Bkgd	220	0.000

Current Conditions File Data

Current Value	Description
0.84	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
16.00	Plasma Gas Flow
-11.50	Deflector Voltage
1600.00	ICP RF Power
-1675.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-14.50	Cell Rod Offset STD [CRO]
8.00	Discriminator Threshold
-3.50	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.84	DRC Mode NEB
-6.50	DRC Mode QRO
-1.50	DRC Mode CRO
-10.00	DRC Mode Cell Entrance/Exit Voltage
3.50	Cell Gas A
0.00	Cell Gas B
280.00	Axial Field Voltage
-15.00	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-40.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

LABWORKS - Summary Report

Sample ID: Blank
Sample Date/Time: Tuesday, August 25, 2015 10:39:08
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\Blank.003
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	950737.207			ppb
	Be-STD1	9	14.000			ppb
	Mn-STD1	55	2421.539			ppb
	Cr-KED3	52	24.000			ppb
	Cr-KED3	53	55.333			ppb
	Co-KED3	59	5.667			ppb
	Ni-KED3	60	6.667			ppb
	Ni-KED3	62	3.333			ppb
	Cu-KED3	63	13.333			ppb
	Cu-KED3	65	7.333			ppb
	Zn-KED3	66	13.667			ppb
>	Ge-KED3	72	19339.122			ppb
>	Ge-KED2	72	64674.781			ppb
	As-KED2	75	81.667			ppb
>	Ge-KED1	72	364948.710			ppb
	Se-KED1	77	330.671			ppb
	Se-KED1	78	9.888			ppb
	Mo-KED2	95	5.333			ppb
	Mo-KED2	97	5.333			ppb
	Mo-KED2	98	7.114			ppb
	Ag-KED2	107	7.667			ppb
	Ag-KED2	109	7.333			ppb
	Cd-KED2	111	2.667			ppb
	Cd-KED2	114	4.192			ppb
>	In-KED2	115	20129.424			ppb
	Sb-KED2	121	18.667			ppb
	Sb-KED2	123	19.373			ppb
	Ba-KED2	135	0.667			ppb
	Ba-KED2	137	3.000			ppb
>	Lu-KED2	175	79631.035			ppb
	Tl-KED2	203	6.667			ppb
	Tl-KED2	205	12.000			ppb
	Pb-KED2	208	19.333			ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6					
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72					
⌈>	Ge-KED2	72					
⌊	As-KED2	75					
⌈>	Ge-KED1	72					
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115					
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175					
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: Standard 1
Sample Date/Time: Tuesday, August 25, 2015 10:43:36
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\Standard 1.004
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	921103.252			ppb
	Be-STD1	9	157916.793	25.00000	4.3	ppb
	Mn-STD1	55	661532.647	25.00000	0.7	ppb
	Cr-KED3	52	12889.819	25.00000	6.1	ppb
	Cr-KED3	53	1612.758	25.00000	5.4	ppb
	Co-KED3	59	33137.483	25.00000	3.8	ppb
	Ni-KED3	60	10073.219	25.00000	4.7	ppb
	Ni-KED3	62	1626.093	25.00000	7.1	ppb
	Cu-KED3	63	29705.533	25.00000	0.5	ppb
	Cu-KED3	65	15595.865	25.00000	5.5	ppb
	Zn-KED3	66	2305.186	25.00000	6.4	ppb
>	Ge-KED3	72	20631.894			ppb
>	Ge-KED2	72	66366.865			ppb
	As-KED2	75	3842.517	25.00000	3.9	ppb
>	Ge-KED1	72	375445.761			ppb
	Se-KED1	77	1785.445	25.00000	2.5	ppb
	Se-KED1	78	4776.181	25.00000	1.1	ppb
	Mo-KED2	95	21340.597	25.00000	2.4	ppb
	Mo-KED2	97	13859.388	25.00000	3.4	ppb
	Mo-KED2	98	35402.197	25.00000	1.3	ppb
	Ag-KED2	107	84869.356	25.00000	1.8	ppb
	Ag-KED2	109	81274.608	25.00000	3.9	ppb
	Cd-KED2	111	8940.130	25.00000	2.7	ppb
	Cd-KED2	114	21053.695	25.00000	0.8	ppb
>	In-KED2	115	20592.539			ppb
	Sb-KED2	121	13035.278	25.00000	1.7	ppb
	Sb-KED2	123	10376.630	25.00000	1.1	ppb
	Ba-KED2	135	4967.531	25.00000	1.1	ppb
	Ba-KED2	137	9364.735	25.00000	2.3	ppb
>	Lu-KED2	175	82408.383			ppb
	Tl-KED2	203	68207.106	25.00000	1.7	ppb
	Tl-KED2	205	159791.035	25.00000	1.4	ppb
	Pb-KED2	208	204967.872	25.00000	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6					
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72					
⌈>	Ge-KED2	72					
⌊	As-KED2	75					
⌈>	Ge-KED1	72					
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115					
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175					
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICV
Sample Date/Time: Tuesday, August 25, 2015 10:48:03
Sample Description:
Autosampler Position: 3
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\ICV.005
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
⌈>	Li-STD1	6	926009.546			ppb
|	Be-STD1	9	16187.838	2.54842	3.7	ppb
⌊	Mn-STD1	55	640078.558	24.09335	5.7	ppb
⌈	Cr-KED3	52	5076.904	9.84091	7.7	ppb
|	Cr-KED3	53	718.685	10.63729	1.9	ppb
|	Co-KED3	59	31629.694	23.94190	4.9	ppb
|	Ni-KED3	60	9592.889	23.86204	4.3	ppb
|	Ni-KED3	62	1631.427	25.13262	1.9	ppb
|	Cu-KED3	63	15135.349	12.76563	1.1	ppb
|	Cu-KED3	65	7320.877	11.76658	4.6	ppb
|	Zn-KED3	66	2330.191	25.33016	8.6	ppb
⌊>	Ge-KED3	72	20577.144			ppb
⌈>	Ge-KED2	72	66679.591			ppb
⌊	As-KED2	75	3850.853	24.91807	2.0	ppb
⌈>	Ge-KED1	72	360767.750			ppb
|	Se-KED1	77	1861.455	27.63239	3.0	ppb
⌊	Se-KED1	78	4960.538	27.00703	3.2	ppb
⌈	Mo-KED2	95	21870.070	25.83224	2.0	ppb
|	Mo-KED2	97	14025.550	25.50653	1.2	ppb
|	Mo-KED2	98	36842.238	26.23534	2.7	ppb
|	Ag-KED2	107	42447.655	12.60676	1.2	ppb
|	Ag-KED2	109	40590.252	12.58704	1.7	ppb
|	Cd-KED2	111	4562.395	12.86122	2.6	ppb
|	Cd-KED2	114	10712.281	12.82716	2.6	ppb
|>	In-KED2	115	20416.838			ppb
|	Sb-KED2	121	13661.198	26.42298	1.8	ppb
|	Sb-KED2	123	10829.560	26.32085	0.8	ppb
|	Ba-KED2	135	20867.899	105.94510	1.0	ppb
⌊	Ba-KED2	137	38344.727	103.24308	0.2	ppb
⌈>	Lu-KED2	175	82268.279			ppb
|	Tl-KED2	203	68839.478	25.27552	1.7	ppb
|	Tl-KED2	205	162835.610	25.51964	1.5	ppb
⌊	Pb-KED2	208	204956.285	25.04386	2.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		97			
	Be-STD1	9	102				
	Mn-STD1	55	96				
	Cr-KED3	52	98				
	Cr-KED3	53	106				
	Co-KED3	59	96				
	Ni-KED3	60	95				
	Ni-KED3	62	101				
	Cu-KED3	63	102				
	Cu-KED3	65	94				
	Zn-KED3	66	101				
>	Ge-KED3	72		106			
>	Ge-KED2	72		103			
	As-KED2	75	100				
>	Ge-KED1	72		99			
	Se-KED1	77	111				
	Se-KED1	78	108				
	Mo-KED2	95	103				
	Mo-KED2	97	102				
	Mo-KED2	98	105				
	Ag-KED2	107	101				
	Ag-KED2	109	101				
	Cd-KED2	111	103				
	Cd-KED2	114	103				
>	In-KED2	115		101			
	Sb-KED2	121	106				
	Sb-KED2	123	105				
	Ba-KED2	135	106				
	Ba-KED2	137	103				
>	Lu-KED2	175		103			
	Tl-KED2	203	101				
	Tl-KED2	205	102				
	Pb-KED2	208	100				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Se-KED1	77	Out of Control

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 10:52:32
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\CCV.006
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	904808.766			ppb
	Be-STD1	9	152701.634	24.59728	2.4	ppb
	Mn-STD1	55	635953.725	24.47142	2.0	ppb
	Cr-KED3	52	12749.026	25.01183	4.1	ppb
	Cr-KED3	53	1640.094	25.75421	8.3	ppb
	Co-KED3	59	31199.737	23.84239	3.9	ppb
	Ni-KED3	60	9875.414	24.79571	2.3	ppb
	Ni-KED3	62	1629.426	25.34818	2.1	ppb
	Cu-KED3	63	29373.517	25.02797	2.9	ppb
	Cu-KED3	65	15091.312	24.49312	4.2	ppb
	Zn-KED3	66	2355.528	25.84400	5.6	ppb
>	Ge-KED3	72	20378.525			ppb
>	Ge-KED2	72	66238.245			ppb
	As-KED2	75	3748.158	24.41334	2.8	ppb
>	Ge-KED1	72	364920.853			ppb
	Se-KED1	77	1806.114	26.30964	2.7	ppb
	Se-KED1	78	4656.384	25.09998	1.6	ppb
	Mo-KED2	95	21227.098	25.05266	1.2	ppb
	Mo-KED2	97	13892.752	25.25110	2.4	ppb
	Mo-KED2	98	35535.855	25.29079	1.6	ppb
	Ag-KED2	107	84118.938	24.96974	1.6	ppb
	Ag-KED2	109	79675.912	24.69324	2.5	ppb
	Cd-KED2	111	8984.491	25.31323	0.6	ppb
	Cd-KED2	114	20724.502	24.80060	1.6	ppb
>	In-KED2	115	20434.622			ppb
	Sb-KED2	121	13059.300	25.24092	2.1	ppb
	Sb-KED2	123	10369.207	25.17825	1.1	ppb
	Ba-KED2	135	5070.233	25.72285	2.1	ppb
	Ba-KED2	137	9523.174	25.61987	2.8	ppb
>	Lu-KED2	175	82912.592			ppb
	Tl-KED2	203	68212.538	24.84541	2.4	ppb
	Tl-KED2	205	160210.053	24.91150	1.5	ppb
	Pb-KED2	208	203241.483	24.63650	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		95			
	Be-STD1	9	98				
	Mn-STD1	55	98				
	Cr-KED3	52	100				
	Cr-KED3	53	103				
	Co-KED3	59	95				
	Ni-KED3	60	99				
	Ni-KED3	62	101				
	Cu-KED3	63	100				
	Cu-KED3	65	98				
	Zn-KED3	66	103				
>	Ge-KED3	72		105			
>	Ge-KED2	72		102			
	As-KED2	75	98				
>	Ge-KED1	72		100			
	Se-KED1	77	105				
	Se-KED1	78	100				
	Mo-KED2	95	100				
	Mo-KED2	97	101				
	Mo-KED2	98	101				
	Ag-KED2	107	100				
	Ag-KED2	109	99				
	Cd-KED2	111	101				
	Cd-KED2	114	99				
>	In-KED2	115		102			
	Sb-KED2	121	101				
	Sb-KED2	123	101				
	Ba-KED2	135	103				
	Ba-KED2	137	102				
>	Lu-KED2	175		104			
	Tl-KED2	203	99				
	Tl-KED2	205	100				
	Pb-KED2	208	99				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV
Report Date/Time: Tuesday, August 25, 2015 11:56:17
Page 2

LABWORKS - Summary Report

Sample ID: ICB
Sample Date/Time: Tuesday, August 25, 2015 10:57:00
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\ICB.007
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	902614.541			ppb
	Be-STD1	9	14.667	0.00023	436.0	ppb
	Mn-STD1	55	2261.513	-0.00146	324.9	ppb
	Cr-KED3	52	27.000	0.00392	114.2	ppb
	Cr-KED3	53	46.000	-0.19057	176.4	ppb
	Co-KED3	59	7.333	0.00109	100.1	ppb
	Ni-KED3	60	5.000	-0.00494	53.4	ppb
	Ni-KED3	62	2.000	-0.02333	135.5	ppb
	Cu-KED3	63	14.667	0.00071	1033.4	ppb
	Cu-KED3	65	9.667	0.00330	97.2	ppb
	Zn-KED3	66	13.000	-0.01330	602.8	ppb
>	Ge-KED3	72	20150.537			ppb
>	Ge-KED2	72	65530.625			ppb
	As-KED2	75	82.667	-0.00057	2073.3	ppb
>	Ge-KED1	72	361866.344			ppb
	Se-KED1	77	324.670	-0.07217	642.5	ppb
	Se-KED1	78	9.545	-0.00228	951.3	ppb
	Mo-KED2	95	9.333	0.00482	77.1	ppb
	Mo-KED2	97	6.667	0.00246	226.9	ppb
	Mo-KED2	98	14.895	0.00563	43.3	ppb
	Ag-KED2	107	33.667	0.00785	42.9	ppb
	Ag-KED2	109	34.333	0.00852	56.1	ppb
	Cd-KED2	111	3.333	0.00191	171.3	ppb
	Cd-KED2	114	4.389	0.00025	221.3	ppb
>	In-KED2	115	20101.647			ppb
	Sb-KED2	121	53.333	0.06827	15.0	ppb
	Sb-KED2	123	30.455	0.02751	54.4	ppb
	Ba-KED2	135	3.333	0.01379	114.3	ppb
	Ba-KED2	137	4.000	0.00275	100.0	ppb
>	Lu-KED2	175	81132.409			ppb
	Tl-KED2	203	13.333	0.00245	94.5	ppb
	Tl-KED2	205	27.667	0.00246	21.8	ppb
	Pb-KED2	208	30.000	0.00128	119.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		95			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		104			
⌈>	Ge-KED2	72		101			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		99			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		100			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		102			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Sb-KED2	121	Out of Control

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 11:01:29
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCB.008
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	852775.234			ppb
	Be-STD1	9	6.667	-0.00101	107.2	ppb
	Mn-STD1	55	2265.513	0.00384	83.9	ppb
	Cr-KED3	52	19.000	-0.01016	121.1	ppb
	Cr-KED3	53	47.333	-0.13699	57.3	ppb
	Co-KED3	59	8.000	0.00190	47.0	ppb
	Ni-KED3	60	3.667	-0.00798	49.0	ppb
	Ni-KED3	62	1.333	-0.03344	110.4	ppb
	Cu-KED3	63	8.000	-0.00478	64.7	ppb
	Cu-KED3	65	9.667	0.00425	256.9	ppb
	Zn-KED3	66	14.333	0.00827	142.2	ppb
>	Ge-KED3	72	19306.379			ppb
>	Ge-KED2	72	64682.840			ppb
	As-KED2	75	79.000	-0.01691	450.2	ppb
>	Ge-KED1	72	353778.360			ppb
	Se-KED1	77	305.337	-0.28290	72.3	ppb
	Se-KED1	78	13.555	0.02223	11.9	ppb
	Mo-KED2	95	5.333	0.00008	1706.3	ppb
	Mo-KED2	97	6.667	0.00260	216.8	ppb
	Mo-KED2	98	7.123	0.00006	6039.2	ppb
	Ag-KED2	107	13.333	0.00174	94.3	ppb
	Ag-KED2	109	13.333	0.00194	16.6	ppb
	Cd-KED2	111	4.667	0.00583	149.7	ppb
	Cd-KED2	114	4.643	0.00060	415.9	ppb
>	In-KED2	115	19886.812			ppb
	Sb-KED2	121	30.667	0.02431	40.8	ppb
	Sb-KED2	123	25.622	0.01625	65.4	ppb
	Ba-KED2	135	2.667	0.01037	230.5	ppb
	Ba-KED2	137	3.000	0.00006	11569.6	ppb
>	Lu-KED2	175	79657.837			ppb
	Tl-KED2	203	8.000	0.00051	154.7	ppb
	Tl-KED2	205	15.000	0.00049	93.5	ppb
	Pb-KED2	208	24.667	0.00068	113.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		90			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		100			
>	Ge-KED2	72		100			
	As-KED2	75					
>	Ge-KED1	72		97			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		99			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		100			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: LLICVS
Sample Date/Time: Tuesday, August 25, 2015 11:05:57
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\LLICVS.009
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	859163.123			ppb
	Be-STD1	9	250.669	0.04038	2.7	ppb
	Mn-STD1	55	5008.211	0.11466	4.4	ppb
	Cr-KED3	52	205.335	0.36515	14.4	ppb
	Cr-KED3	53	76.000	0.31508	62.0	ppb
	Co-KED3	59	59.667	0.04229	23.4	ppb
	Ni-KED3	60	162.668	0.40112	6.3	ppb
	Ni-KED3	62	32.667	0.46809	39.1	ppb
	Cu-KED3	63	264.669	0.21935	4.8	ppb
	Cu-KED3	65	130.001	0.20426	17.4	ppb
	Zn-KED3	66	103.667	1.01109	19.4	ppb
>	Ge-KED3	72	19886.177			ppb
>	Ge-KED2	72	62946.383			ppb
	As-KED2	75	248.002	1.18009	11.7	ppb
>	Ge-KED1	72	365670.671			ppb
	Se-KED1	77	450.007	2.10378	22.7	ppb
	Se-KED1	78	394.469	2.07708	7.1	ppb
	Mo-KED2	95	80.667	0.09077	27.2	ppb
	Mo-KED2	97	67.333	0.11495	8.5	ppb
	Mo-KED2	98	160.969	0.11149	16.5	ppb
	Ag-KED2	107	144.001	0.04126	6.1	ppb
	Ag-KED2	109	144.001	0.04316	1.6	ppb
	Cd-KED2	111	21.667	0.05458	16.6	ppb
	Cd-KED2	114	38.845	0.04225	11.3	ppb
>	In-KED2	115	20053.119			ppb
	Sb-KED2	121	84.667	0.13033	17.5	ppb
	Sb-KED2	123	60.706	0.10275	25.7	ppb
	Ba-KED2	135	23.333	0.11720	10.4	ppb
	Ba-KED2	137	45.667	0.11706	12.3	ppb
>	Lu-KED2	175	79677.928			ppb
	Tl-KED2	203	135.334	0.04875	7.6	ppb
	Tl-KED2	205	301.003	0.04676	2.6	ppb
	Pb-KED2	208	879.344	0.10847	5.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		90			
|	Be-STD1	9	101				
⌊	Mn-STD1	55	115				
⌈	Cr-KED3	52	91				
|	Cr-KED3	53	79				
|	Co-KED3	59	106				
|	Ni-KED3	60	100				
|	Ni-KED3	62	117				
|	Cu-KED3	63	110				
|	Cu-KED3	65	102				
|	Zn-KED3	66	101				
⌊>	Ge-KED3	72		103			
⌈>	Ge-KED2	72		97			
⌊	As-KED2	75	118				
⌈>	Ge-KED1	72		100			
|	Se-KED1	77	105				
⌊	Se-KED1	78	104				
⌈	Mo-KED2	95	91				
|	Mo-KED2	97	115				
|	Mo-KED2	98	111				
|	Ag-KED2	107	103				
|	Ag-KED2	109	108				
|	Cd-KED2	111	136				
|	Cd-KED2	114	106				
|>	In-KED2	115		100			
|	Sb-KED2	121	130				
|	Sb-KED2	123	103				
|	Ba-KED2	135	117				
⌊	Ba-KED2	137	117				
⌈>	Lu-KED2	175		100			
|	Tl-KED2	203	122				
|	Tl-KED2	205	117				
⌊	Pb-KED2	208	108				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Cd-KED2	111	Out of Control
QC Std 5	Sb-KED2	121	Out of Control

Rep + Cd 114 stdt in slx 1/1

LABWORKS - Summary Report

Sample ID: ICSA
Sample Date/Time: Tuesday, August 25, 2015 11:17:12
Sample Description:
Autosampler Position: 5
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\ICSA.010
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	836987.760			ppb
	Be-STD1	9	76.000	0.01109	3.5	ppb
	Mn-STD1	55	38158.239	1.50345	1.4	ppb
	Cr-KED3	52	128.334	0.20471	24.5	ppb
	Cr-KED3	53	634.014	9.42546	3.3	ppb
	Co-KED3	59	349.338	0.26337	5.7	ppb
	Ni-KED3	60	131.667	0.31505	4.6	ppb
	Ni-KED3	62	33.333	0.46932	18.2	ppb
	Cu-KED3	63	400.672	0.33128	3.3	ppb
	Cu-KED3	65	198.001	0.31014	7.0	ppb
	Zn-KED3	66	51.333	0.41476	44.8	ppb
>	Ge-KED3	72	20283.736			ppb
>	Ge-KED2	72	62993.063			ppb
	As-KED2	75	96.667	0.12242	86.3	ppb
>	Ge-KED1	72	345707.842			ppb
	Se-KED1	77	392.672	1.46558	49.8	ppb
	Se-KED1	78	16.413	0.03936	45.7	ppb
	Mo-KED2	95	43702.088	53.36266	2.3	ppb
	Mo-KED2	97	28392.196	53.36554	1.3	ppb
	Mo-KED2	98	71013.337	52.27613	1.5	ppb
	Ag-KED2	107	95.667	0.02705	11.6	ppb
	Ag-KED2	109	97.334	0.02891	9.3	ppb
	Cd-KED2	111	34.000	0.09148	5.8	ppb
	Cd-KED2	114	85.613	0.10097	10.6	ppb
>	In-KED2	115	19758.114			ppb
	Sb-KED2	121	158.668	0.28052	15.3	ppb
	Sb-KED2	123	134.623	0.29123	13.7	ppb
	Ba-KED2	135	31.333	0.16047	55.2	ppb
	Ba-KED2	137	66.000	0.17550	18.1	ppb
>	Lu-KED2	175	80482.581			ppb
	Tl-KED2	203	9.333	0.00096	110.3	ppb
	Tl-KED2	205	30.000	0.00285	32.0	ppb
	Pb-KED2	208	605.338	0.07319	5.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		88			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		105			
⌈>	Ge-KED2	72		97			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		95			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95	107				
|	Mo-KED2	97	107				
|	Mo-KED2	98	105				
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		98			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		101			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: ICSAB
Sample Date/Time: Tuesday, August 25, 2015 11:21:40
Sample Description:
Autosampler Position: 6
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\ICSAB.011
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	817949.924			ppb
	Be-STD1	9	71.334	0.01057	21.5	ppb
	Mn-STD1	55	1297315.702	55.32368	1.3	ppb
	Cr-KED3	52	24079.653	51.43951	8.1	ppb
	Cr-KED3	53	3605.790	62.71928	4.7	ppb
	Co-KED3	59	57889.819	48.13572	7.4	ppb
	Ni-KED3	60	17499.060	47.81988	7.9	ppb
	Ni-KED3	62	2868.288	48.52925	3.9	ppb
	Cu-KED3	63	51903.575	48.04491	3.2	ppb
	Cu-KED3	65	25608.271	45.21429	5.6	ppb
	Zn-KED3	66	2007.808	23.92678	3.3	ppb
>	Ge-KED3	72	18765.996			ppb
>	Ge-KED2	72	61668.617			ppb
	As-KED2	75	3489.760	24.42821	3.5	ppb
>	Ge-KED1	72	339541.518			ppb
	Se-KED1	77	1712.770	26.88367	7.0	ppb
	Se-KED1	78	4340.041	25.15687	3.3	ppb
	Mo-KED2	95	41469.456	52.31334	0.7	ppb
	Mo-KED2	97	27251.311	52.94173	3.0	ppb
	Mo-KED2	98	70043.866	53.27511	1.0	ppb
	Ag-KED2	107	35398.805	11.22874	1.8	ppb
	Ag-KED2	109	33537.993	11.10809	3.2	ppb
	Cd-KED2	111	7801.130	23.48730	0.7	ppb
	Cd-KED2	114	18157.617	23.22329	1.9	ppb
>	In-KED2	115	19122.323			ppb
	Sb-KED2	121	148.667	0.27132	14.7	ppb
	Sb-KED2	123	105.497	0.22678	10.2	ppb
	Ba-KED2	135	33.333	0.17897	60.1	ppb
	Ba-KED2	137	62.333	0.17122	7.6	ppb
>	Lu-KED2	175	77554.955			ppb
	Tl-KED2	203	12.000	0.00215	131.8	ppb
	Tl-KED2	205	29.667	0.00299	26.9	ppb
	Pb-KED2	208	604.672	0.07591	4.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		86			
	Be-STD1	9					
	Mn-STD1	55	111				
	Cr-KED3	52	103				
	Cr-KED3	53	125				
	Co-KED3	59	96				
	Ni-KED3	60	96				
	Ni-KED3	62	97				
	Cu-KED3	63	96				
	Cu-KED3	65	90				
	Zn-KED3	66	96				
>	Ge-KED3	72		97			
>	Ge-KED2	72		95			
	As-KED2	75	98				
>	Ge-KED1	72		93			
	Se-KED1	77	108				
	Se-KED1	78	101				
	Mo-KED2	95	105				
	Mo-KED2	97	106				
	Mo-KED2	98	107				
	Ag-KED2	107	90				
	Ag-KED2	109	89				
	Cd-KED2	111	94				
	Cd-KED2	114	93				
>	In-KED2	115		95			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		97			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Cr-KED3	53	Out of Control

LABWORKS - Summary Report

Sample ID: KQ1509275-14
Sample Date/Time: Tuesday, August 25, 2015 11:27:57
Sample Description: 5
Autosampler Position: 301
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\KQ1509275-14.012
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	890914.469			ppb
	Be-STD1	9	9.333	-0.00059	200.1	ppb
	Mn-STD1	55	1976.804	-0.01152	34.3	ppb
	Cr-KED3	52	106.000	0.15132	18.4	ppb
	Cr-KED3	53	33.333	-0.42420	33.9	ppb
	Co-KED3	59	7.667	0.00102	251.8	ppb
	Ni-KED3	60	26.667	0.04671	18.8	ppb
	Ni-KED3	62	6.667	0.04598	80.5	ppb
	Cu-KED3	63	43.333	0.02355	7.6	ppb
	Cu-KED3	65	21.000	0.02041	41.9	ppb
	Zn-KED3	66	27.667	0.13516	10.9	ppb
>	Ge-KED3	72	21179.698			ppb
>	Ge-KED2	72	67982.719			ppb
	As-KED2	75	61.667	-0.15699	30.2	ppb
>	Ge-KED1	72	389440.448			ppb
	Se-KED1	77	297.336	-0.94044	27.2	ppb
	Se-KED1	78	8.838	-0.00934	153.4	ppb
	Mo-KED2	95	22.000	0.01860	24.0	ppb
	Mo-KED2	97	14.667	0.01578	32.4	ppb
	Mo-KED2	98	32.082	0.01680	25.3	ppb
	Ag-KED2	107	16.667	0.00246	49.4	ppb
	Ag-KED2	109	18.333	0.00315	45.5	ppb
	Cd-KED2	111	5.667	0.00770	51.6	ppb
	Cd-KED2	114	3.765	-0.00073	1585.7	ppb
>	In-KED2	115	21235.975			ppb
	Sb-KED2	121	7.333	-0.02304	18.0	ppb
	Sb-KED2	123	9.748	-0.02510	47.4	ppb
	Ba-KED2	135	4.000	0.01591	121.4	ppb
	Ba-KED2	137	8.333	0.01341	41.0	ppb
>	Lu-KED2	175	81471.687			ppb
	Tl-KED2	203	4.000	-0.00104	73.3	ppb
	Tl-KED2	205	7.000	-0.00083	20.8	ppb
	Pb-KED2	208	59.333	0.00488	29.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		94			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		105			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		102			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001
Sample Date/Time: Tuesday, August 25, 2015 11:32:25
Sample Description: 50
Autosampler Position: 302
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001.013
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	948849.085			ppb
	Be-STD1	9	708.018	0.10665	9.5	ppb
	Mn-STD1	55	25497030.246	939.26945	3.2	ppb
	Cr-KED3	52	17601.516	33.02516	4.8	ppb
	Cr-KED3	53	2358.195	35.74486	5.8	ppb
	Co-KED3	59	3977.221	2.90065	2.3	ppb
	Ni-KED3	60	2405.203	5.75870	3.0	ppb
	Ni-KED3	62	403.339	5.95471	1.2	ppb
	Cu-KED3	63	11185.045	9.10002	2.1	ppb
	Cu-KED3	65	5695.472	8.82744	6.4	ppb
	Zn-KED3	66	3517.434	36.95358	5.5	ppb
>	Ge-KED3	72	21323.236			ppb
>	Ge-KED2	72	69928.462			ppb
	As-KED2	75	255.002	1.05299	8.2	ppb
>	Ge-KED1	72	405204.503			ppb
	Se-KED1	77	338.004	-0.48699	109.7	ppb
	Se-KED1	78	18.019	0.03406	25.2	ppb
	Mo-KED2	95	559.344	0.64047	4.6	ppb
	Mo-KED2	97	399.339	0.70120	3.0	ppb
	Mo-KED2	98	967.741	0.66910	3.3	ppb
	Ag-KED2	107	62.333	0.01580	7.5	ppb
	Ag-KED2	109	49.000	0.01256	4.3	ppb
	Cd-KED2	111	52.000	0.13575	14.4	ppb
	Cd-KED2	114	138.026	0.15675	4.6	ppb
>	In-KED2	115	20867.291			ppb
	Sb-KED2	121	54.667	0.06695	4.0	ppb
	Sb-KED2	123	43.748	0.05648	18.7	ppb
	Ba-KED2	135	8511.204	42.28657	4.1	ppb
	Ba-KED2	137	15893.839	41.88284	3.8	ppb
>	Lu-KED2	175	83990.850			ppb
	Tl-KED2	203	52.667	0.01641	13.6	ppb
	Tl-KED2	205	115.334	0.01576	15.6	ppb
	Pb-KED2	208	46139.247	5.51893	0.4	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		108			
	As-KED2	75					
>	Ge-KED1	72		111			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		104			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		105			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001D
Sample Date/Time: Tuesday, August 25, 2015 11:36:53
Sample Description: 50
Autosampler Position: 303
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1508581-001D.014
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	948856.047			ppb
	Be-STD1	9	580.679	0.08708	11.9	ppb
	Mn-STD1	55	14938462.862	549.81414	2.9	ppb
	Cr-KED3	52	15353.921	28.52903	7.0	ppb
	Cr-KED3	53	2097.488	31.30515	1.6	ppb
	Co-KED3	59	4247.634	3.06754	9.0	ppb
	Ni-KED3	60	2314.854	5.48917	6.1	ppb
	Ni-KED3	62	362.005	5.29866	12.8	ppb
	Cu-KED3	63	8490.527	6.82851	2.9	ppb
	Cu-KED3	65	4474.035	6.86130	6.5	ppb
	Zn-KED3	66	3113.673	32.36894	6.1	ppb
>	Ge-KED3	72	21563.618			ppb
>	Ge-KED2	72	70660.028			ppb
	As-KED2	75	348.338	1.61905	7.0	ppb
>	Ge-KED1	72	400937.285			ppb
	Se-KED1	77	370.005	0.09771	319.9	ppb
	Se-KED1	78	13.958	0.01496	35.6	ppb
	Mo-KED2	95	607.346	0.68323	5.5	ppb
	Mo-KED2	97	389.339	0.66951	10.1	ppb
	Mo-KED2	98	989.523	0.67206	1.4	ppb
	Ag-KED2	107	63.667	0.01586	5.9	ppb
	Ag-KED2	109	65.333	0.01715	10.8	ppb
	Cd-KED2	111	44.000	0.11154	8.5	ppb
	Cd-KED2	114	88.220	0.09664	14.2	ppb
>	In-KED2	115	21254.003			ppb
	Sb-KED2	121	48.000	0.05295	58.0	ppb
	Sb-KED2	123	43.124	0.05288	15.7	ppb
	Ba-KED2	135	5279.643	25.77219	6.1	ppb
	Ba-KED2	137	10030.187	25.94704	2.5	ppb
>	Lu-KED2	175	85366.997			ppb
	Tl-KED2	203	38.000	0.01093	24.6	ppb
	Tl-KED2	205	101.000	0.01331	3.0	ppb
	Pb-KED2	208	44502.540	5.23790	2.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		100		
|	Be-STD1	9				
⌊	Mn-STD1	55				
⌈	Cr-KED3	52				
|	Cr-KED3	53				
|	Co-KED3	59				
|	Ni-KED3	60				
|	Ni-KED3	62				
|	Cu-KED3	63				
|	Cu-KED3	65				
|	Zn-KED3	66				
⌊>	Ge-KED3	72		112		
⌈>	Ge-KED2	72		109		
⌊	As-KED2	75				
⌈>	Ge-KED1	72		110		
|	Se-KED1	77				
⌊	Se-KED1	78				
⌈	Mo-KED2	95				
|	Mo-KED2	97				
|	Mo-KED2	98				
|	Ag-KED2	107				
|	Ag-KED2	109				
|	Cd-KED2	111				
|	Cd-KED2	114				
|>	In-KED2	115		106		
|	Sb-KED2	121				
|	Sb-KED2	123				
|	Ba-KED2	135				
⌊	Ba-KED2	137				
⌈>	Lu-KED2	175		107		
|	Tl-KED2	203				
|	Tl-KED2	205				
⌊	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001L
Sample Date/Time: Tuesday, August 25, 2015 11:41:21
Sample Description: 250
Autosampler Position: 304
Number of Replicates: 3
Dataset File: C:\NexIONData\DataSet\082515A\K1508581-001L.015
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit	
>	Li-STD1	6	928057.209			ppb	
	Be-STD1	9	132.667	0.01870	5.4	ppb	
	Mn-STD1	55	5001278.641	188.12452	1.1	ppb	<1%
	Cr-KED3	52	3444.082	6.44145	6.0	ppb	
	Cr-KED3	53	488.008	6.66907	7.5	ppb	3%
	Co-KED3	59	822.690	0.59658	5.4	ppb	
	Ni-KED3	60	492.008	1.16610	3.7	ppb	
	Ni-KED3	62	82.667	1.18440	20.3	ppb	
	Cu-KED3	63	2287.517	1.85629	6.4	ppb	
	Cu-KED3	65	1170.048	1.80654	1.9	ppb	2%
	Zn-KED3	66	739.686	7.68501	13.2	ppb	
>	Ge-KED3	72	21285.530			ppb	4%
>	Ge-KED2	72	71296.522			ppb	
	As-KED2	75	107.334	0.10705	36.0	ppb	
>	Ge-KED1	72	397187.610			ppb	
	Se-KED1	77	323.337	-0.63376	117.9	ppb	
	Se-KED1	78	10.110	-0.00391	698.2	ppb	
	Mo-KED2	95	122.667	0.13017	6.5	ppb	
	Mo-KED2	97	85.334	0.13649	1.9	ppb	
	Mo-KED2	98	203.490	0.13149	11.6	ppb	
	Ag-KED2	107	20.333	0.00340	55.6	ppb	
	Ag-KED2	109	16.000	0.00238	44.8	ppb	
	Cd-KED2	111	17.000	0.03754	31.8	ppb	
	Cd-KED2	114	24.467	0.02258	37.7	ppb	
>	In-KED2	115	21658.743			ppb	
	Sb-KED2	121	32.667	0.02307	83.7	ppb	
	Sb-KED2	123	20.538	-0.00069	441.8	ppb	
	Ba-KED2	135	1702.768	8.14855	4.0	ppb	
	Ba-KED2	137	3207.027	8.13149	1.8	ppb	
>	Lu-KED2	175	83998.906			ppb	
	Tl-KED2	203	12.667	0.00204	109.4	ppb	
	Tl-KED2	205	26.333	0.00210	52.5	ppb	
	Pb-KED2	208	9448.539	1.12821	1.6	ppb	

Sample ID: K1508581-001L
Report Date/Time: Tuesday, August 25, 2015 11:56:37
Page 1

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		110			
	As-KED2	75					
>	Ge-KED1	72		109			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		108			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		105			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001A
Sample Date/Time: Tuesday, August 25, 2015 11:45:49
Sample Description: 50 +100ppb
Autosampler Position: 305
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1508581-001A.016
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	945304.224			ppb
	Be-STD1	9	650659.066	100.34000	2.5	ppb
	Mn-STD1	55	28297059.142	1045.41410	3.6	ppb
	Cr-KED3	52	71039.242	132.02110	4.0	ppb
	Cr-KED3	53	9150.267	139.91084	5.9	ppb
	Co-KED3	59	139527.023	100.80118	1.4	ppb
	Ni-KED3	60	44003.123	104.48116	4.5	ppb
	Ni-KED3	62	7171.135	105.68634	5.6	ppb
	Cu-KED3	63	134526.785	108.39685	2.8	ppb
	Cu-KED3	65	68794.458	105.56692	2.8	ppb
	Zn-KED3	66	13495.038	140.69982	3.3	ppb
>	Ge-KED3	72	21559.594			ppb
>	Ge-KED2	72	70793.651			ppb
	As-KED2	75	15658.577	97.02597	1.4	ppb
>	Ge-KED1	72	392368.215			ppb
	Se-KED1	77	6908.339	108.65099	2.5	ppb
	Se-KED1	78	20278.647	101.85468	2.8	ppb
	Mo-KED2	95	88858.870	99.29769	0.6	ppb
	Mo-KED2	97	56685.580	97.54091	1.4	ppb
	Mo-KED2	98	145072.616	97.76017	2.7	ppb
	Ag-KED2	107	77.334	0.01943	5.2	ppb
	Ag-KED2	109	66.667	0.01723	20.4	ppb
	Cd-KED2	111	36057.114	96.18974	1.1	ppb
	Cd-KED2	114	84911.251	96.20676	2.2	ppb
>	In-KED2	115	21587.011			ppb
	Sb-KED2	121	55770.006	102.13674	1.9	ppb
	Sb-KED2	123	43795.654	100.81594	1.2	ppb
	Ba-KED2	135	29487.083	141.63758	4.0	ppb
	Ba-KED2	137	54779.852	139.52772	2.7	ppb
>	Lu-KED2	175	84978.709			ppb
	Tl-KED2	203	262515.640	93.30288	0.4	ppb
	Tl-KED2	205	624812.540	94.79968	1.5	ppb
	Pb-KED2	208	826789.741	97.80263	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		111			
>	Ge-KED2	72		109			
	As-KED2	75					
>	Ge-KED1	72		108			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		107			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		107			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-001S
Sample Date/Time: Tuesday, August 25, 2015 11:50:17
Sample Description: 50
Autosampler Position: 306
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1508581-001S.017
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	943983.342			ppb
	Be-STD1	9	13997.527	2.15916	2.2	ppb
	Mn-STD1	55	15676375.199	580.18512	4.5	ppb
	Cr-KED3	52	26543.978	49.13185	5.8	ppb
	Cr-KED3	53	3406.407	51.24859	3.9	ppb
	Co-KED3	59	32443.187	23.32773	0.2	ppb
	Ni-KED3	60	11114.664	26.33403	9.5	ppb
	Ni-KED3	62	1830.118	26.79992	5.1	ppb
	Cu-KED3	63	24711.411	19.79879	1.8	ppb
	Cu-KED3	65	12765.707	19.52110	5.8	ppb
	Zn-KED3	66	4787.136	49.64414	6.4	ppb
>	Ge-KED3	72	21657.761			ppb
>	Ge-KED2	72	71397.001			ppb
	As-KED2	75	3531.770	21.26996	2.1	ppb
>	Ge-KED1	72	391114.501			ppb
	Se-KED1	77	1616.092	20.93539	5.1	ppb
	Se-KED1	78	4162.342	20.92402	2.0	ppb
	Mo-KED2	95	18799.696	20.74072	1.1	ppb
	Mo-KED2	97	12078.439	20.51587	2.5	ppb
	Mo-KED2	98	30890.792	20.54824	2.6	ppb
	Ag-KED2	107	7073.418	1.96039	1.8	ppb
	Ag-KED2	109	6712.911	1.94229	2.6	ppb
	Cd-KED2	111	810.023	2.12598	3.6	ppb
	Cd-KED2	114	1857.363	2.07293	2.3	ppb
>	In-KED2	115	21860.177			ppb
	Sb-KED2	121	5152.929	9.28556	1.6	ppb
	Sb-KED2	123	4138.847	9.36435	0.8	ppb
	Ba-KED2	135	14341.195	68.00217	0.9	ppb
	Ba-KED2	137	26893.293	67.62985	1.8	ppb
>	Lu-KED2	175	85336.798			ppb
	Tl-KED2	203	55644.836	19.69133	0.6	ppb
	Tl-KED2	205	130142.790	19.66017	1.1	ppb
	Pb-KED2	208	206244.079	24.29058	1.5	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		112			
>	Ge-KED2	72		110			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		109			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		107			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: KQ1509275-13
Sample Date/Time: Tuesday, August 25, 2015 11:54:45
Sample Description: 20
Autosampler Position: 307
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\KQ1509275-13.018
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
⌈>	Li-STD1	6	970293.807			ppb
|	Be-STD1	9	249913.424	37.54886	1.8	ppb
⌊	Mn-STD1	55	4663195.330	167.80227	2.6	ppb
⌈	Cr-KED3	52	37545.972	71.17562	5.9	ppb
|	Cr-KED3	53	4792.805	74.36603	8.0	ppb
|	Co-KED3	59	91777.110	67.64852	4.3	ppb
|	Ni-KED3	60	32457.233	78.74014	8.7	ppb
|	Ni-KED3	62	5258.301	79.03518	5.0	ppb
|	Cu-KED3	63	64510.874	53.00880	4.5	ppb
|	Cu-KED3	65	33407.391	52.28727	2.9	ppb
|	Zn-KED3	66	7586.683	80.62677	5.6	ppb
⌊>	Ge-KED3	72	21150.335			ppb
⌈>	Ge-KED2	72	68799.947			ppb
⌊	As-KED2	75	8066.277	51.16114	1.4	ppb
⌈>	Ge-KED1	72	381851.257			ppb
|	Se-KED1	77	5280.976	84.10090	3.6	ppb
⌊	Se-KED1	78	15497.694	79.96636	2.6	ppb
⌈	Mo-KED2	95	61767.296	72.39716	4.4	ppb
|	Mo-KED2	97	39467.113	71.21717	3.4	ppb
|	Mo-KED2	98	102306.691	72.29453	3.9	ppb
|	Ag-KED2	107	72410.408	21.33203	2.7	ppb
|	Ag-KED2	109	69815.515	21.47302	2.8	ppb
|	Cd-KED2	111	34169.488	95.57852	2.8	ppb
|	Cd-KED2	114	80157.857	95.23312	3.2	ppb
|>	In-KED2	115	20595.232			ppb
|	Sb-KED2	121	20766.421	39.85678	3.4	ppb
|	Sb-KED2	123	16250.612	39.20467	3.9	ppb
|	Ba-KED2	135	33206.551	167.23356	3.4	ppb
⌊	Ba-KED2	137	62100.037	165.83486	2.9	ppb
⌈>	Lu-KED2	175	83364.876			ppb
|	Tl-KED2	203	252740.843	91.56670	0.7	ppb
|	Tl-KED2	205	597769.777	92.44446	0.9	ppb
⌊	Pb-KED2	208	487206.554	58.73881	1.0	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9	94				
	Mn-STD1	55	104				
	Cr-KED3	52	105				
	Cr-KED3	53	109				
	Co-KED3	59	106				
	Ni-KED3	60	103				
	Ni-KED3	62	103				
	Cu-KED3	63	104				
	Cu-KED3	65	103				
	Zn-KED3	66	100				
>	Ge-KED3	72		109			
>	Ge-KED2	72		106			
	As-KED2	75	103				
>	Ge-KED1	72		105			
	Se-KED1	77	112				
	Se-KED1	78	107				
	Mo-KED2	95	109				
	Mo-KED2	97	107				
	Mo-KED2	98	109				
	Ag-KED2	107	106				
	Ag-KED2	109	106				
	Cd-KED2	111	105				
	Cd-KED2	114	105				
>	In-KED2	115		102			
	Sb-KED2	121	90				
	Sb-KED2	123	89				
	Ba-KED2	135	108				
	Ba-KED2	137	107				
>	Lu-KED2	175		105			
	Tl-KED2	203	105				
	Tl-KED2	205	106				
	Pb-KED2	208	102				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508581-002
Sample Date/Time: Tuesday, August 25, 2015 11:59:13
Sample Description: 50
Autosampler Position: 308
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1508581-002.019
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	934130.863			ppb
	Be-STD1	9	706.017	0.10802	1.7	ppb
	Mn-STD1	55	28757265.078	1076.06800	4.0	ppb
	Cr-KED3	52	18384.827	33.84057	4.4	ppb
	Cr-KED3	53	2676.251	39.89990	4.9	ppb
	Co-KED3	59	4830.484	3.45554	4.3	ppb
	Ni-KED3	60	3396.404	7.98647	5.5	ppb
	Ni-KED3	62	544.010	7.89405	5.4	ppb
	Cu-KED3	63	24451.595	19.51690	1.7	ppb
	Cu-KED3	65	12300.295	18.71374	3.4	ppb
	Zn-KED3	66	57744.986	597.66709	6.7	ppb
>	Ge-KED3	72	21745.543			ppb
>	Ge-KED2	72	67903.411			ppb
	As-KED2	75	332.004	1.60081	10.7	ppb
>	Ge-KED1	72	390769.609			ppb
	Se-KED1	77	334.004	-0.33961	68.2	ppb
	Se-KED1	78	17.362	0.03553	99.7	ppb
	Mo-KED2	95	923.363	1.04066	2.4	ppb
	Mo-KED2	97	579.345	1.00168	4.3	ppb
	Mo-KED2	98	1530.977	1.04151	3.6	ppb
	Ag-KED2	107	969.700	0.27414	4.8	ppb
	Ag-KED2	109	943.031	0.27836	4.0	ppb
	Cd-KED2	111	618.680	1.66709	1.1	ppb
	Cd-KED2	114	1466.348	1.68050	2.8	ppb
>	In-KED2	115	21273.981			ppb
	Sb-KED2	121	484.008	0.86307	6.8	ppb
	Sb-KED2	123	400.712	0.88844	5.5	ppb
	Ba-KED2	135	6017.267	29.31666	1.8	ppb
	Ba-KED2	137	11540.996	29.81670	3.1	ppb
>	Lu-KED2	175	83762.182			ppb
	Tl-KED2	203	119.334	0.04048	16.4	ppb
	Tl-KED2	205	274.003	0.04023	6.5	ppb
	Pb-KED2	208	1128810.871	135.45109	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98		
|	Be-STD1	9				
⌊	Mn-STD1	55				
⌈	Cr-KED3	52				
|	Cr-KED3	53				
|	Co-KED3	59				
|	Ni-KED3	60				
|	Ni-KED3	62				
|	Cu-KED3	63				
|	Cu-KED3	65				
|	Zn-KED3	66				
⌊>	Ge-KED3	72		112		
⌈>	Ge-KED2	72		105		
⌊	As-KED2	75				
⌈>	Ge-KED1	72		107		
|	Se-KED1	77				
⌊	Se-KED1	78				
⌈	Mo-KED2	95				
|	Mo-KED2	97				
|	Mo-KED2	98				
|	Ag-KED2	107				
|	Ag-KED2	109				
|	Cd-KED2	111				
|	Cd-KED2	114				
|>	In-KED2	115		106		
|	Sb-KED2	121				
|	Sb-KED2	123				
|	Ba-KED2	135				
⌊	Ba-KED2	137				
⌈>	Lu-KED2	175		105		
|	Tl-KED2	203				
|	Tl-KED2	205				
⌊	Pb-KED2	208				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1508970-001A
Sample Date/Time: Tuesday, August 25, 2015 12:03:41
Sample Description: 5 +200ppb
Autosampler Position: 309
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1508970-001A.020
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	963624.223			ppb
	Be-STD1	9	1020599.260	154.44540	4.4	ppb
	Mn-STD1	55	56480314.283	2047.34043	2.0	ppb
	Cr-KED3	52	211275.184	462.43083	2.8	ppb
	Cr-KED3	53	29614.810	535.23876	6.4	ppb
	Co-KED3	59	310832.607	264.45082	1.3	ppb
	Ni-KED3	60	168381.964	471.39801	5.1	ppb
	Ni-KED3	62	27747.676	481.31903	5.7	ppb
	Cu-KED3	63	434665.343	412.33827	2.8	ppb
	Cu-KED3	65	216389.985	391.46401	4.2	ppb
	Zn-KED3	66	50224.197	617.33806	4.7	ppb
>	Ge-KED3	72	18306.060			ppb
>	Ge-KED2	72	56995.482			ppb
	As-KED2	75	31731.879	245.04741	1.4	ppb
>	Ge-KED1	72	308083.994			ppb
	Se-KED1	77	10523.888	216.18354	0.8	ppb
	Se-KED1	78	31967.130	204.48192	2.5	ppb
	Mo-KED2	95	155034.725	206.89167	0.9	ppb
	Mo-KED2	97	99167.022	203.76720	1.5	ppb
	Mo-KED2	98	255663.423	205.69596	1.3	ppb
	Ag-KED2	107	2903.628	0.97189	1.5	ppb
	Ag-KED2	109	2702.923	0.94446	3.7	ppb
	Cd-KED2	111	57995.175	184.72477	1.0	ppb
	Cd-KED2	114	135305.996	183.05048	1.6	ppb
>	In-KED2	115	18077.969			ppb
	Sb-KED2	121	93584.353	204.65959	2.0	ppb
	Sb-KED2	123	72860.713	200.31677	1.3	ppb
	Ba-KED2	135	76534.536	438.81982	1.6	ppb
	Ba-KED2	137	144450.689	439.31108	1.7	ppb
>	Lu-KED2	175	77738.289			ppb
	Tl-KED2	203	461845.352	179.45320	1.9	ppb
	Tl-KED2	205	1093293.322	181.31961	0.7	ppb
	Pb-KED2	208	2177468.669	281.54684	1.3	ppb

98.5% C-PDS

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		101			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		95			
⌈>	Ge-KED2	72		88			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		84			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		90			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		98			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001
Sample Date/Time: Tuesday, August 25, 2015 12:08:09
Sample Description: 50
Autosampler Position: 310
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001.021
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	942205.604			ppb
	Be-STD1	9	934.697	0.14254	5.7	ppb
	Mn-STD1	55	55036115.312	2040.44704	2.5	ppb
	Cr-KED3	52	27409.289	51.87643	3.4	ppb
	Cr-KED3	53	3769.164	58.16871	3.7	ppb
	Co-KED3	59	4103.256	3.01821	4.0	ppb
	Ni-KED3	60	2676.584	6.46399	3.3	ppb
	Ni-KED3	62	478.008	7.12634	2.3	ppb
	Cu-KED3	63	15525.106	12.74042	3.3	ppb
	Cu-KED3	65	7674.395	11.99905	2.4	ppb
	Zn-KED3	66	3817.177	40.44254	2.5	ppb
>	Ge-KED3	72	21146.640			ppb
>	Ge-KED2	72	66141.152			ppb
	As-KED2	75	385.672	2.01686	6.0	ppb
>	Ge-KED1	72	392314.916			ppb
	Se-KED1	77	342.671	-0.22575	369.5	ppb
	Se-KED1	78	19.342	0.04402	53.8	ppb
	Mo-KED2	95	1332.729	1.58281	2.7	ppb
	Mo-KED2	97	837.358	1.52827	1.5	ppb
	Mo-KED2	98	2291.746	1.64318	2.3	ppb
	Ag-KED2	107	111.667	0.03119	10.9	ppb
	Ag-KED2	109	96.667	0.02793	8.2	ppb
	Cd-KED2	111	64.000	0.17562	56.9	ppb
	Cd-KED2	114	160.144	0.18997	56.0	ppb
>	In-KED2	115	20223.664			ppb
	Sb-KED2	121	153.334	0.26420	34.0	ppb
	Sb-KED2	123	120.332	0.24893	33.0	ppb
	Ba-KED2	135	10800.083	55.36539	3.2	ppb
	Ba-KED2	137	20440.284	55.55735	0.5	ppb
>	Lu-KED2	175	82404.329			ppb
	Tl-KED2	203	178.668	0.06291	43.6	ppb
	Tl-KED2	205	407.673	0.06176	48.4	ppb
	Pb-KED2	208	73411.412	8.95149	1.3	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		99			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		102			
	As-KED2	75					
>	Ge-KED1	72		107			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		100			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 12:12:40
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCV.022
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	931580.561			ppb
	Be-STD1	9	153353.552	24.00743	3.4	ppb
	Mn-STD1	55	692769.934	25.90008	4.7	ppb
	Cr-KED3	52	12777.052	24.34779	7.0	ppb
	Cr-KED3	53	1748.107	26.66274	2.6	ppb
	Co-KED3	59	32559.731	24.15040	2.9	ppb
	Ni-KED3	60	10103.248	24.64868	9.1	ppb
	Ni-KED3	62	1646.762	24.86150	5.3	ppb
	Cu-KED3	63	29855.885	24.66814	2.5	ppb
	Cu-KED3	65	14689.557	23.15735	6.7	ppb
	Zn-KED3	66	2376.864	25.30781	3.6	ppb
>	Ge-KED3	72	21007.109			ppb
>	Ge-KED2	72	67279.088			ppb
	As-KED2	75	3779.834	24.22110	2.6	ppb
>	Ge-KED1	72	377772.255			ppb
	Se-KED1	77	1838.119	25.76663	8.2	ppb
	Se-KED1	78	4795.438	25.01973	5.9	ppb
	Mo-KED2	95	21920.808	25.60222	1.7	ppb
	Mo-KED2	97	13829.360	24.86149	0.4	ppb
	Mo-KED2	98	35356.979	24.89466	0.8	ppb
	Ag-KED2	107	83247.244	24.44609	1.2	ppb
	Ag-KED2	109	79145.470	24.26794	4.0	ppb
	Cd-KED2	111	8815.386	24.57279	0.6	ppb
	Cd-KED2	114	20598.502	24.38695	0.8	ppb
>	In-KED2	115	20654.367			ppb
	Sb-KED2	121	13430.314	25.67951	2.4	ppb
	Sb-KED2	123	10191.077	24.48214	0.7	ppb
	Ba-KED2	135	4948.857	24.83476	1.7	ppb
	Ba-KED2	137	9407.098	25.03199	1.6	ppb
>	Lu-KED2	175	81786.204			ppb
	Tl-KED2	203	66278.158	24.47153	1.4	ppb
	Tl-KED2	205	157357.694	24.80842	1.8	ppb
	Pb-KED2	208	198622.519	24.40989	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		98		
|	Be-STD1	9	96			
⌊	Mn-STD1	55	104			
⌈	Cr-KED3	52	97			
|	Cr-KED3	53	107			
|	Co-KED3	59	97			
|	Ni-KED3	60	99			
|	Ni-KED3	62	99			
|	Cu-KED3	63	99			
|	Cu-KED3	65	93			
|	Zn-KED3	66	101			
⌊>	Ge-KED3	72		109		
⌈>	Ge-KED2	72		104		
⌊	As-KED2	75	97			
⌈>	Ge-KED1	72		104		
|	Se-KED1	77	103			
⌊	Se-KED1	78	100			
⌈	Mo-KED2	95	102			
|	Mo-KED2	97	99			
|	Mo-KED2	98	100			
|	Ag-KED2	107	98			
|	Ag-KED2	109	97			
|	Cd-KED2	111	98			
|	Cd-KED2	114	98			
|>	In-KED2	115		103		
|	Sb-KED2	121	103			
|	Sb-KED2	123	98			
|	Ba-KED2	135	99			
⌊	Ba-KED2	137	100			
⌈>	Lu-KED2	175		103		
|	Tl-KED2	203	98			
|	Tl-KED2	205	99			
⌊	Pb-KED2	208	98			

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 12:17:08
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\CCB.023
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	889661.449			ppb
	Be-STD1	9	13.333	0.00003	2445.2	ppb
	Mn-STD1	55	2152.163	-0.00452	99.0	ppb
	Cr-KED3	52	20.000	-0.00915	75.1	ppb
	Cr-KED3	53	45.333	-0.18720	102.1	ppb
	Co-KED3	59	5.667	-0.00008	2714.4	ppb
	Ni-KED3	60	4.667	-0.00553	30.8	ppb
	Ni-KED3	62	3.333	-0.00075	6561.6	ppb
	Cu-KED3	63	19.333	0.00495	156.6	ppb
	Cu-KED3	65	10.000	0.00431	150.4	ppb
	Zn-KED3	66	16.333	0.02672	166.6	ppb
>	Ge-KED3	72	19749.313			ppb
>	Ge-KED2	72	64279.960			ppb
	As-KED2	75	71.334	-0.06745	43.9	ppb
>	Ge-KED1	72	357579.591			ppb
	Se-KED1	77	272.669	-0.94710	35.7	ppb
	Se-KED1	78	8.464	-0.00666	98.1	ppb
	Mo-KED2	95	13.333	0.00981	38.4	ppb
	Mo-KED2	97	7.333	0.00388	148.7	ppb
	Mo-KED2	98	20.530	0.00990	20.2	ppb
	Ag-KED2	107	37.333	0.00906	47.9	ppb
	Ag-KED2	109	32.333	0.00797	45.9	ppb
	Cd-KED2	111	5.333	0.00781	54.5	ppb
	Cd-KED2	114	3.707	-0.00054	296.2	ppb
>	In-KED2	115	19859.140			ppb
	Sb-KED2	121	40.667	0.04437	38.3	ppb
	Sb-KED2	123	39.914	0.05195	28.2	ppb
	Ba-KED2	135	3.333	0.01415	215.2	ppb
	Ba-KED2	137	4.333	0.00377	107.9	ppb
>	Lu-KED2	175	79453.020			ppb
	Tl-KED2	203	16.000	0.00353	105.9	ppb
	Tl-KED2	205	38.000	0.00421	37.4	ppb
	Pb-KED2	208	42.667	0.00294	63.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		94			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		102			
>	Ge-KED2	72		99			
	As-KED2	75					
>	Ge-KED1	72		98			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		99			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		100			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001D
Sample Date/Time: Tuesday, August 25, 2015 12:21:39
Sample Description: 50
Autosampler Position: 311
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-001D.024
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	970584.987			ppb
	Be-STD1	9	642.014	0.09435	6.4	ppb
	Mn-STD1	55	22842269.285	822.13063	2.3	ppb
	Cr-KED3	52	30872.373	58.13519	6.9	ppb
	Cr-KED3	53	4125.930	63.36874	2.4	ppb
	Co-KED3	59	4184.615	3.05666	4.2	ppb
	Ni-KED3	60	3012.984	7.23688	3.4	ppb
	Ni-KED3	62	471.341	6.98407	1.8	ppb
	Cu-KED3	63	20169.581	16.44933	2.0	ppb
	Cu-KED3	65	10392.451	16.14725	2.5	ppb
	Zn-KED3	66	3409.740	35.90980	4.8	ppb
>	Ge-KED3	72	21278.175			ppb
>	Ge-KED2	72	66788.453			ppb
	As-KED2	75	294.670	1.39008	5.5	ppb
>	Ge-KED1	72	376551.229			ppb
	Se-KED1	77	316.670	-0.43110	65.3	ppb
	Se-KED1	78	26.695	0.08344	77.2	ppb
	Mo-KED2	95	1198.717	1.41449	1.3	ppb
	Mo-KED2	97	797.356	1.44526	2.3	ppb
	Mo-KED2	98	1981.918	1.41141	4.9	ppb
	Ag-KED2	107	97.000	0.02662	8.3	ppb
	Ag-KED2	109	99.334	0.02858	7.5	ppb
	Cd-KED2	111	44.667	0.11883	5.4	ppb
	Cd-KED2	114	98.751	0.11368	10.5	ppb
>	In-KED2	115	20351.004			ppb
	Sb-KED2	121	104.000	0.16545	8.3	ppb
	Sb-KED2	123	86.665	0.16399	9.4	ppb
	Ba-KED2	135	5845.863	29.78042	2.7	ppb
	Ba-KED2	137	11159.023	30.14247	1.7	ppb
>	Lu-KED2	175	82737.237			ppb
	Tl-KED2	203	52.000	0.01643	38.8	ppb
	Tl-KED2	205	113.334	0.01571	17.0	ppb
	Pb-KED2	208	60992.692	7.40699	0.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		102			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		110			
>	Ge-KED2	72		103			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		101			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		104			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001L
Sample Date/Time: Tuesday, August 25, 2015 12:26:06
Sample Description: 250
Autosampler Position: 312
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-001L.025
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	915082.892			ppb
	Be-STD1	9	233.335	0.03503	13.7	ppb
	Mn-STD1	55	10794189.139	411.91034	1.7	ppb
	Cr-KED3	52	5600.432	10.80193	6.5	ppb
	Cr-KED3	53	764.687	11.31042	8.3	ppb
	Co-KED3	59	813.357	0.60730	5.3	ppb
	Ni-KED3	60	572.678	1.40072	6.6	ppb
	Ni-KED3	62	90.667	1.33784	27.6	ppb
	Cu-KED3	63	3020.986	2.52497	3.7	ppb
	Cu-KED3	65	1609.757	2.56247	5.4	ppb
	Zn-KED3	66	787.688	8.40839	8.2	ppb
>	Ge-KED3	72	20701.330			ppb
>	Ge-KED2	72	66795.490			ppb
	As-KED2	75	129.667	0.29888	28.8	ppb
>	Ge-KED1	72	375215.551			ppb
	Se-KED1	77	297.336	-0.75698	58.4	ppb
	Se-KED1	78	12.535	0.01226	66.3	ppb
	Mo-KED2	95	283.336	0.32462	4.3	ppb
	Mo-KED2	97	188.668	0.32937	4.1	ppb
	Mo-KED2	98	464.309	0.32183	2.6	ppb
	Ag-KED2	107	33.000	0.00739	21.4	ppb
	Ag-KED2	109	27.000	0.00600	22.3	ppb
	Cd-KED2	111	14.333	0.03229	10.0	ppb
	Cd-KED2	114	28.053	0.02806	15.0	ppb
>	In-KED2	115	20649.700			ppb
	Sb-KED2	121	36.000	0.03208	36.7	ppb
	Sb-KED2	123	34.040	0.03429	43.6	ppb
	Ba-KED2	135	2232.175	11.20391	4.3	ppb
	Ba-KED2	137	4135.265	11.00490	2.0	ppb
>	Lu-KED2	175	82129.085			ppb
	Tl-KED2	203	10.000	0.00115	61.8	ppb
	Tl-KED2	205	35.000	0.00355	31.4	ppb
	Pb-KED2	208	14739.610	1.80141	1.6	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		96			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		107			
>	Ge-KED2	72		103			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		103			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-001A
Sample Date/Time: Tuesday, August 25, 2015 12:30:34
Sample Description: 50 +100ppb
Autosampler Position: 313
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001A.026
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	929730.690			ppb
	Be-STD1	9	616462.355	96.81951	3.7	ppb
	Mn-STD1	55	60757262.902	2291.56651	8.2	ppb
	Cr-KED3	52	76863.030	146.21884	7.0	ppb
	Cr-KED3	53	10114.253	158.13404	3.7	ppb
	Co-KED3	59	134469.838	99.31159	2.2	ppb
	Ni-KED3	60	40557.526	98.61129	6.4	ppb
	Ni-KED3	62	6706.912	100.96285	5.4	ppb
	Cu-KED3	63	134511.910	110.78411	4.7	ppb
	Cu-KED3	65	67687.430	106.32282	5.3	ppb
	Zn-KED3	66	12966.549	138.29862	4.4	ppb
>	Ge-KED3	72	21087.901			ppb
>	Ge-KED2	72	67714.798			ppb
	As-KED2	75	15083.626	97.73049	2.2	ppb
>	Ge-KED1	72	382686.956			ppb
	Se-KED1	77	6472.807	103.95780	3.1	ppb
	Se-KED1	78	19909.384	102.53902	3.0	ppb
	Mo-KED2	95	86103.435	99.74048	7.6	ppb
	Mo-KED2	97	55543.112	99.04347	7.0	ppb
	Mo-KED2	98	141468.711	98.68283	4.6	ppb
	Ag-KED2	107	107.000	0.02891	24.0	ppb
	Ag-KED2	109	97.000	0.02733	22.4	ppb
	Cd-KED2	111	35007.530	96.83708	8.6	ppb
	Cd-KED2	114	82748.181	97.06306	4.7	ppb
>	In-KED2	115	20885.033			ppb
	Sb-KED2	121	53019.563	100.59788	6.5	ppb
	Sb-KED2	123	42050.676	100.36117	8.5	ppb
	Ba-KED2	135	30636.152	152.45295	6.9	ppb
	Ba-KED2	137	57558.761	151.95468	7.8	ppb
>	Lu-KED2	175	82279.716			ppb
	Tl-KED2	203	260026.159	95.48799	2.8	ppb
	Tl-KED2	205	610657.226	95.74675	3.9	ppb
	Pb-KED2	208	842813.726	103.02944	4.2	ppb

N/A

8/25/15

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		98			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		105			
	As-KED2	75					
>	Ge-KED1	72		105			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		104			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		103			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

8/25/15

LABWORKS - Summary Report

Sample ID: K1509039-001S
Sample Date/Time: Tuesday, August 25, 2015 12:35:02
Sample Description: 50
Autosampler Position: 314
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\K1509039-001S.027
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	976899.216			ppb
	Be-STD1	9	13818.681	2.06018	1.0	ppb
	Mn-STD1	55	12757185.282	456.00981	0.6	ppb
	Cr-KED3	52	15470.732	29.28256	9.7	ppb
	Cr-KED3	53	2226.841	34.01900	11.4	ppb
	Co-KED3	59	31223.757	22.98038	1.7	ppb
	Ni-KED3	60	10525.881	25.47572	6.7	ppb
	Ni-KED3	62	1762.776	26.40821	7.5	ppb
	Cu-KED3	63	26689.608	21.88685	1.8	ppb
	Cu-KED3	65	12976.225	20.28971	3.5	ppb
	Zn-KED3	66	5726.816	60.77742	7.2	ppb
>	Ge-KED3	72	21166.344			ppb
>	Ge-KED2	72	66157.931			ppb
	As-KED2	75	3205.693	20.82875	2.9	ppb
>	Ge-KED1	72	375665.129			ppb
	Se-KED1	77	1546.751	20.94598	10.4	ppb
	Se-KED1	78	3870.967	20.25401	2.6	ppb
	Mo-KED2	95	17304.476	20.47619	2.3	ppb
	Mo-KED2	97	11159.025	20.33753	4.8	ppb
	Mo-KED2	98	28484.527	20.32428	2.7	ppb
	Ag-KED2	107	6524.823	1.93990	3.7	ppb
	Ag-KED2	109	6185.672	1.91982	3.3	ppb
	Cd-KED2	111	756.020	2.12878	3.3	ppb
	Cd-KED2	114	1839.769	2.20294	5.0	ppb
>	In-KED2	115	20388.888			ppb
	Sb-KED2	121	4632.084	8.95547	4.5	ppb
	Sb-KED2	123	3695.767	8.97042	4.7	ppb
	Ba-KED2	135	16616.325	84.50826	2.1	ppb
	Ba-KED2	137	31122.198	83.95772	3.0	ppb
>	Lu-KED2	175	82423.481			ppb
	Tl-KED2	203	52929.876	19.39641	1.6	ppb
	Tl-KED2	205	124180.421	19.42742	2.5	ppb
	Pb-KED2	208	219050.290	26.71504	1.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		109			
>	Ge-KED2	72		102			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		101			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		104			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: K1509039-002
Sample Date/Time: Tuesday, August 25, 2015 12:39:30
Sample Description: 50
Autosampler Position: 315
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\K1509039-002.028
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	994125.664			ppb
	Be-STD1	9	665.349	0.09550	4.5	ppb
	Mn-STD1	55	30358646.844	1067.13900	3.3	ppb
	Cr-KED3	52	57237.494	105.59832	5.4	ppb
	Cr-KED3	53	7324.546	110.92142	4.6	ppb
	Co-KED3	59	3587.117	2.56794	2.1	ppb
	Ni-KED3	60	2216.172	5.21111	5.8	ppb
	Ni-KED3	62	353.338	5.11932	12.7	ppb
	Cu-KED3	63	13902.117	11.10265	6.0	ppb
	Cu-KED3	65	6969.368	10.60652	3.3	ppb
	Zn-KED3	66	4650.090	48.02238	4.0	ppb
>	Ge-KED3	72	21723.846			ppb
>	Ge-KED2	72	69792.749			ppb
	As-KED2	75	242.669	0.97666	3.1	ppb
>	Ge-KED1	72	390797.071			ppb
	Se-KED1	77	314.670	-0.69334	119.4	ppb
	Se-KED1	78	19.958	0.04687	31.3	ppb
	Mo-KED2	95	1149.380	1.28244	1.7	ppb
	Mo-KED2	97	709.351	1.21490	6.1	ppb
	Mo-KED2	98	1874.653	1.26220	3.9	ppb
	Ag-KED2	107	117.000	0.03067	8.7	ppb
	Ag-KED2	109	103.334	0.02810	15.4	ppb
	Cd-KED2	111	67.667	0.17350	9.5	ppb
	Cd-KED2	114	150.765	0.16628	6.8	ppb
>	In-KED2	115	21514.904			ppb
	Sb-KED2	121	123.334	0.19009	18.4	ppb
	Sb-KED2	123	79.040	0.13477	22.0	ppb
	Ba-KED2	135	5947.905	28.65392	0.8	ppb
	Ba-KED2	137	11346.838	28.98603	0.7	ppb
>	Lu-KED2	175	85046.747			ppb
	Tl-KED2	203	66.000	0.02091	29.5	ppb
	Tl-KED2	205	150.667	0.02089	5.7	ppb
	Pb-KED2	208	86305.037	10.19760	0.8	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		105			
|	Be-STD1	9					
⌊	Mn-STD1	55					
⌈	Cr-KED3	52					
|	Cr-KED3	53					
|	Co-KED3	59					
|	Ni-KED3	60					
|	Ni-KED3	62					
|	Cu-KED3	63					
|	Cu-KED3	65					
|	Zn-KED3	66					
⌊>	Ge-KED3	72		112			
⌈>	Ge-KED2	72		108			
⌊	As-KED2	75					
⌈>	Ge-KED1	72		107			
|	Se-KED1	77					
⌊	Se-KED1	78					
⌈	Mo-KED2	95					
|	Mo-KED2	97					
|	Mo-KED2	98					
|	Ag-KED2	107					
|	Ag-KED2	109					
|	Cd-KED2	111					
|	Cd-KED2	114					
|>	In-KED2	115		107			
|	Sb-KED2	121					
|	Sb-KED2	123					
|	Ba-KED2	135					
⌊	Ba-KED2	137					
⌈>	Lu-KED2	175		107			
|	Tl-KED2	203					
|	Tl-KED2	205					
⌊	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCV
Sample Date/Time: Tuesday, August 25, 2015 12:44:00
Sample Description:
Autosampler Position: 2
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\CCV.029
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	953939.542			ppb
	Be-STD1	9	159777.921	24.41852	1.8	ppb
	Mn-STD1	55	727689.095	26.55478	2.1	ppb
	Cr-KED3	52	13450.339	25.03042	6.3	ppb
	Cr-KED3	53	1726.771	25.69471	1.6	ppb
	Co-KED3	59	34066.253	24.70055	5.4	ppb
	Ni-KED3	60	10556.235	25.14997	5.9	ppb
	Ni-KED3	62	1770.110	26.10352	3.3	ppb
	Cu-KED3	63	31838.802	25.70978	0.9	ppb
	Cu-KED3	65	15933.222	24.54063	6.3	ppb
	Zn-KED3	66	2540.226	26.42201	3.0	ppb
>	Ge-KED3	72	21501.178			ppb
>	Ge-KED2	72	68694.435			ppb
	As-KED2	75	3920.871	24.62167	1.0	ppb
>	Ge-KED1	72	382032.847			ppb
	Se-KED1	77	1838.119	25.38349	6.9	ppb
	Se-KED1	78	5011.251	25.81363	2.3	ppb
	Mo-KED2	95	21999.596	24.91795	2.3	ppb
	Mo-KED2	97	14081.608	24.55479	3.6	ppb
	Mo-KED2	98	36419.269	24.86879	2.1	ppb
	Ag-KED2	107	85374.692	24.31306	0.4	ppb
	Ag-KED2	109	81004.382	24.08217	1.4	ppb
	Cd-KED2	111	9129.250	24.67871	1.6	ppb
	Cd-KED2	114	21177.853	24.31422	0.4	ppb
>	In-KED2	115	21296.059			ppb
	Sb-KED2	121	13547.755	25.12034	0.5	ppb
	Sb-KED2	123	10475.369	24.40406	1.8	ppb
	Ba-KED2	135	5117.584	24.90644	3.4	ppb
	Ba-KED2	137	9701.960	25.03728	0.8	ppb
>	Lu-KED2	175	83000.428			ppb
	Tl-KED2	203	66739.536	24.28465	1.3	ppb
	Tl-KED2	205	158747.826	24.65662	0.6	ppb
	Pb-KED2	208	201013.606	24.34044	0.9	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		100			
	Be-STD1	9	98				
	Mn-STD1	55	106				
	Cr-KED3	52	100				
	Cr-KED3	53	103				
	Co-KED3	59	99				
	Ni-KED3	60	101				
	Ni-KED3	62	104				
	Cu-KED3	63	103				
	Cu-KED3	65	98				
	Zn-KED3	66	106				
>	Ge-KED3	72		111			
>	Ge-KED2	72		106			
	As-KED2	75	98				
>	Ge-KED1	72		105			
	Se-KED1	77	102				
	Se-KED1	78	103				
	Mo-KED2	95	100				
	Mo-KED2	97	98				
	Mo-KED2	98	99				
	Ag-KED2	107	97				
	Ag-KED2	109	96				
	Cd-KED2	111	99				
	Cd-KED2	114	97				
>	In-KED2	115		106			
	Sb-KED2	121	100				
	Sb-KED2	123	98				
	Ba-KED2	135	100				
	Ba-KED2	137	100				
>	Lu-KED2	175		104			
	Tl-KED2	203	97				
	Tl-KED2	205	99				
	Pb-KED2	208	97				

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

LABWORKS - Summary Report

Sample ID: CCB
Sample Date/Time: Tuesday, August 25, 2015 12:48:28
Sample Description:
Autosampler Position: 1
Number of Replicates: 3
Dataset File: C:\NexION\Data\DataSet\082515A\CCB.030
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	977948.755			ppb
	Be-STD1	9	43.333	0.00432	115.1	ppb
	Mn-STD1	55	2932.315	0.01587	180.0	ppb
	Cr-KED3	52	25.667	-0.00019	2930.3	ppb
	Cr-KED3	53	43.333	-0.25674	34.7	ppb
	Co-KED3	59	13.000	0.00517	49.2	ppb
	Ni-KED3	60	7.000	-0.00025	4728.2	ppb
	Ni-KED3	62	4.000	0.00653	1231.2	ppb
	Cu-KED3	63	27.333	0.01096	13.1	ppb
	Cu-KED3	65	10.333	0.00389	110.2	ppb
	Zn-KED3	66	14.667	0.00068	3934.5	ppb
>	Ge-KED3	72	20723.360			ppb
>	Ge-KED2	72	65108.395			ppb
	As-KED2	75	74.334	-0.05300	67.5	ppb
>	Ge-KED1	72	375294.168			ppb
	Se-KED1	77	307.337	-0.57382	111.8	ppb
	Se-KED1	78	6.181	-0.02129	42.1	ppb
	Mo-KED2	95	10.000	0.00554	198.5	ppb
	Mo-KED2	97	7.333	0.00364	54.4	ppb
	Mo-KED2	98	16.822	0.00698	8.9	ppb
	Ag-KED2	107	34.333	0.00805	65.8	ppb
	Ag-KED2	109	25.333	0.00562	44.3	ppb
	Cd-KED2	111	3.000	0.00099	588.3	ppb
	Cd-KED2	114	4.589	0.00043	704.4	ppb
>	In-KED2	115	20185.871			ppb
	Sb-KED2	121	49.333	0.06015	37.4	ppb
	Sb-KED2	123	37.415	0.04414	33.6	ppb
	Ba-KED2	135	2.000	0.00691	149.1	ppb
	Ba-KED2	137	4.000	0.00268	202.7	ppb
>	Lu-KED2	175	80702.658			ppb
	Tl-KED2	203	14.000	0.00270	99.0	ppb
	Tl-KED2	205	33.333	0.00339	37.0	ppb
	Pb-KED2	208	48.000	0.00354	46.1	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % R	Duplicate Rel. % Difference	Dilution % Difference
>	Li-STD1	6		103			
	Be-STD1	9					
	Mn-STD1	55					
	Cr-KED3	52					
	Cr-KED3	53					
	Co-KED3	59					
	Ni-KED3	60					
	Ni-KED3	62					
	Cu-KED3	63					
	Cu-KED3	65					
	Zn-KED3	66					
>	Ge-KED3	72		107			
>	Ge-KED2	72		101			
	As-KED2	75					
>	Ge-KED1	72		103			
	Se-KED1	77					
	Se-KED1	78					
	Mo-KED2	95					
	Mo-KED2	97					
	Mo-KED2	98					
	Ag-KED2	107					
	Ag-KED2	109					
	Cd-KED2	111					
	Cd-KED2	114					
>	In-KED2	115		100			
	Sb-KED2	121					
	Sb-KED2	123					
	Ba-KED2	135					
	Ba-KED2	137					
>	Lu-KED2	175		101			
	Tl-KED2	203					
	Tl-KED2	205					
	Pb-KED2	208					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Sb-KED2	121	Out of Control

LABWORKS - Summary Report

Sample ID: LLCCVS
Sample Date/Time: Tuesday, August 25, 2015 12:52:56
Sample Description:
Autosampler Position: 4
Number of Replicates: 3
Dataset File: C:\NexION Data\DataSet\082515A\LLCCVS.031
User Name: RRM
Batch ID:

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
>	Li-STD1	6	976741.810			ppb
	Be-STD1	9	323.337	0.04618	7.0	ppb
	Mn-STD1	55	5183.607	0.09660	8.5	ppb
	Cr-KED3	52	229.669	0.38489	1.8	ppb
	Cr-KED3	53	63.333	0.05026	445.7	ppb
	Co-KED3	59	57.000	0.03754	15.0	ppb
	Ni-KED3	60	174.001	0.40437	9.3	ppb
	Ni-KED3	62	28.667	0.37378	10.0	ppb
	Cu-KED3	63	289.336	0.22568	18.6	ppb
	Cu-KED3	65	147.001	0.21805	13.2	ppb
	Zn-KED3	66	119.334	1.11240	11.0	ppb
>	Ge-KED3	72	21176.390			ppb
>	Ge-KED2	72	66285.112			ppb
	As-KED2	75	243.669	1.06491	2.9	ppb
>	Ge-KED1	72	364785.361			ppb
	Se-KED1	77	446.674	2.07420	18.8	ppb
	Se-KED1	78	408.429	2.15533	5.0	ppb
	Mo-KED2	95	100.667	0.11144	10.6	ppb
	Mo-KED2	97	71.334	0.11850	17.1	ppb
	Mo-KED2	98	149.261	0.10010	7.7	ppb
	Ag-KED2	107	163.334	0.04577	5.7	ppb
	Ag-KED2	109	159.001	0.04655	4.6	ppb
	Cd-KED2	111	18.000	0.04268	47.7	ppb
	Cd-KED2	114	38.590	0.04063	15.3	ppb
>	In-KED2	115	20615.122			ppb
	Sb-KED2	121	97.334	0.15042	31.1	ppb
	Sb-KED2	123	71.497	0.12473	15.4	ppb
	Ba-KED2	135	25.333	0.12396	4.7	ppb
	Ba-KED2	137	44.667	0.11073	25.6	ppb
>	Lu-KED2	175	83139.236			ppb
	Tl-KED2	203	125.334	0.04295	18.5	ppb
	Tl-KED2	205	294.670	0.04374	16.4	ppb
	Pb-KED2	208	870.677	0.10280	4.7	ppb

QC Calculated Values

IS Symbol	Analyte	Mass	QC Std % Recovery	IS % Recovery	Spike % RDuplicate Rel. % Difference	Dilution % Difference
⌈>	Li-STD1	6		103		
|	Be-STD1	9	115			
⌊	Mn-STD1	55	97			
⌈	Cr-KED3	52	96			
|	Cr-KED3	53	13			
|	Co-KED3	59	94			
|	Ni-KED3	60	101			
|	Ni-KED3	62	93			
|	Cu-KED3	63	113			
|	Cu-KED3	65	109			
|	Zn-KED3	66	111			
⌊>	Ge-KED3	72		110		
⌈>	Ge-KED2	72		102		
⌊	As-KED2	75	106			
⌈>	Ge-KED1	72		100		
|	Se-KED1	77	104			
⌊	Se-KED1	78	108			
⌈	Mo-KED2	95	111			
|	Mo-KED2	97	118			
|	Mo-KED2	98	100			
|	Ag-KED2	107	114			
|	Ag-KED2	109	116			
|	Cd-KED2	111	107			
|	Cd-KED2	114	102			
|>	In-KED2	115		102		
|	Sb-KED2	121	150			
|	Sb-KED2	123	125			
|	Ba-KED2	135	124			
⌊	Ba-KED2	137	111			
⌈>	Lu-KED2	175		104		
|	Tl-KED2	203	107			
|	Tl-KED2	205	109			
⌊	Pb-KED2	208	103			

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Cr-KED3	53	Out of Control
QC Std 6	Sb-KED2	121	Out of Control

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F021.D
Lab ID: K1508581-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 20:41
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: [illegible] 08/27/15

Secondary Review: [illegible]

Printed: 08/27/2015 15:47:10
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F021.D
Lab ID: K1508581-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 20:41
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual
Above Highest ICAL Level	Aroclor 1248 {3}	2105.49	NA	2000	MRR
	Aroclor 1248 {4}	2502.99	NA	2000	" "
	Aroclor 1248 {5}	3304.53	NA	2000	" "

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:14
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F021.D			**Vial:**	20
Acqu Date:	08/26/2015 20:41	**Quant Date:**	08/28/2015 11:28	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/03/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	K1508581
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
		Prep Date:	08/17/2015		
Prep Ref:	1458718				

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Decachlorobiphenyl	12.26	0.00	13.62	-0.01	3821060	1504615	24.16		18.27				91	OK
						%Recovery =	121	OK	91	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0	0	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F021.D			**Vial:**	20
Acqu Date:	08/26/2015 20:41	**Quant Date:**	08/28/2015 11:28	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.94	4.95	6810823	0	1,454	0.0000	770D	11U	
Aroclor 1248			0	0	2,283	2,043	1200D	1100D	NR
Aroclor 1248 {2}	5.29	5.55	9445499	3925144	2,166	1,522	1200D	810D	
Aroclor 1248 {3}	5.68	5.92	16581479	6261647	2,581	2,105	1400D	1100ED	
Aroclor 1248 {4}	5.88	6.36	12051108	6004609	2,454	2,503	1300D	1300ED	
Aroclor 1248 {5}	6.29	7.05	12776687	0	2,759	0.0000	1500D	11U	
Aroclor 1254 {1}	6.25	6.72	8988554	9767672	2,310	2,658	1200D	1400D	
Aroclor 1254			0	0	2,057	2,019	1100D	1100D	1100D
Aroclor 1254 {2}	6.68	7.05	14514435	0	2,000	0.0000	1100D	11U	
Aroclor 1254 {3}	6.84	7.16	24111069	4323601	1,648	2,232	880D	1200D	
Aroclor 1254 {4}	7.18	8.01	17649077	2111579	1,845	932.05	980D	500D	
Aroclor 1254 {5}	7.78	8.77	15730765	7075948	2,484	2,255	1300D	1200D	
Aroclor 1260 {1}	7.08 +0.00	7.83 0.00	0	594906	0.0000	269.69	11Ui	11Ui	
Aroclor 1260			0	0	192.59	245.50	110Ui	140Ui	140Ui
Aroclor 1260 {2}	8.09 -0.01	9.27 0.00	1633184	641676	201.28	169.76	11Ui	11Ui	
Aroclor 1260 {3}	8.65 +0.00	9.72 0.00	1260415	547742	153.13	151.78	11Ui	11Ui	
Aroclor 1260 {4}	9.11 0.00	10.40 +0.00	3117501	2830264	165.84	327.79	11Ui	11Ui	
Aroclor 1260 {5}	9.89 -0.01	11.02 -0.01	3548284	1723017	250.11	308.49	11Ui	11Ui	
Aroclor 1262 {1}	8.09	9.27	1633184	641676	121.07	110.91	64D	59D	
Aroclor 1262			0	0	126.44	177.81	67D	95D	67D
Aroclor 1262 {2}	8.65	9.72	1260415	547742	107.00	135.25	57D	72D	
Aroclor 1262 {3}	9.11	10.40	3117501	2830264	135.05	293.22	72D	160D	
Aroclor 1262 {4}	9.89	11.02	3548284	1723017	204.40	257.22	110D	140D	
Aroclor 1262 {5}	11.03	12.38	538716	336400	64.68	92.44	34D	49D	
Aroclor 1268 {1}	9.78	11.02	1598434	1723017	54.14	133.12	29D	71D	
Aroclor 1268			0	0	69.85	124.62	37D	66D	37PD
Aroclor 1268 {2}	9.89	11.23	3548284	2848097	139.18	260.75	74D	140D	
Aroclor 1268 {3}	10.42	11.71	1589834	508041	72.28	53.22	38D	28D	
Aroclor 1268 {4}	11.71	13.13	864041	1462872	13.79	51.41	11U	27D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.143 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	93.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F021.D
Report Date: 28-Aug-2015 11:28

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F021.D
Inj Date : 26-AUG-2015 20:41
Sample Info: K1508581-001 5X
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	2541734	931525	14.4	11.8		100.00
Aroclor 1248	4.938	4.954	6810823		1450		80.00- 120.00	100.00(H)
	5.294	5.551	9445499	3925144	2170	1520	17.18- 25.77	138.68(H)
	5.681	5.924	16581479	6261647	2580	2110	19.47- 29.21	243.46(H)
	5.878	6.358	12051108	6004609	2450	2500	3.05- 4.58	176.94(H)
	6.288	7.054	12776687		2760		0.69- 1.04	187.59(H)
		Average of Peak Amounts =			2280	2040		
Aroclor 1254	6.248	6.718	8988554	9767672	2310	2660	80.00- 120.00	100.00(H)
	6.684	7.054	14514435		2000		1017.66-1526.49	161.48(H)
	6.838	7.161	24111069	4323601	1650	2230	9646.23-14469.35	268.24(H)
	7.178	8.014	17649077	2111579	1850	932	1126.72-1690.08	196.35(H)
	7.784	8.768	15730765	7075948	2480	2260	281.12- 421.67	175.01(H)
		Average of Peak Amounts =			2060	2020		
Aroclor 1260	7.081	7.834		594906		270	80.00- 120.00	100.00(H)
	8.094	9.271	1633184	641676	201	170	70.14- 105.21	26.44(H)
	8.651	9.721	1260415	547742	153	152	70.66- 105.99	20.40(H)
	9.111	10.401	3117501	2830264	166	328	162.95- 244.43	50.47(H)
	9.894	11.024	3548284	1723017	250	308	126.35- 189.53	57.44(H)
		Average of Peak Amounts =			193	246		
Aroclor 1262	8.094	9.271	1633184	641676	121	111	80.00- 120.00	100.00(H)
	8.651	9.721	1260415	547742	107	135	81.49- 122.24	77.18(H)
	9.111	10.401	3117501	2830264	135	293	185.52- 278.29	190.88(H)
	9.894	11.024	3548284	1723017	204	257	145.56- 218.35	217.26(H)
	11.028	12.378	538716	336400	64.7	92.4	49.79- 74.69	32.99(H)
		Average of Peak Amounts =			126	178		
Aroclor 1268	9.784	11.024	1598434	1723017	54.1	133	80.00- 120.00	100.00(H)
	9.894	11.234	3548284	2848097	139	261	261.97- 392.95	221.99(H)
	10.418	11.708	1589834	508041	72.3	53.2	12.86- 19.30	99.46(H)
	11.708	13.131	864041	1462872	13.8	51.4	30.73- 46.09	54.06(H)

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F021.D
Report Date: 28-Aug-2015 11:28

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		69.8	125		
Decachlorobiphenyl	12.264	13.624	3821060	1504615	24.2	18.3		100.00
Aroclors, Total	0.000	0.000	34041513	15335680	4730	4610		0.00

QC Flag Legend

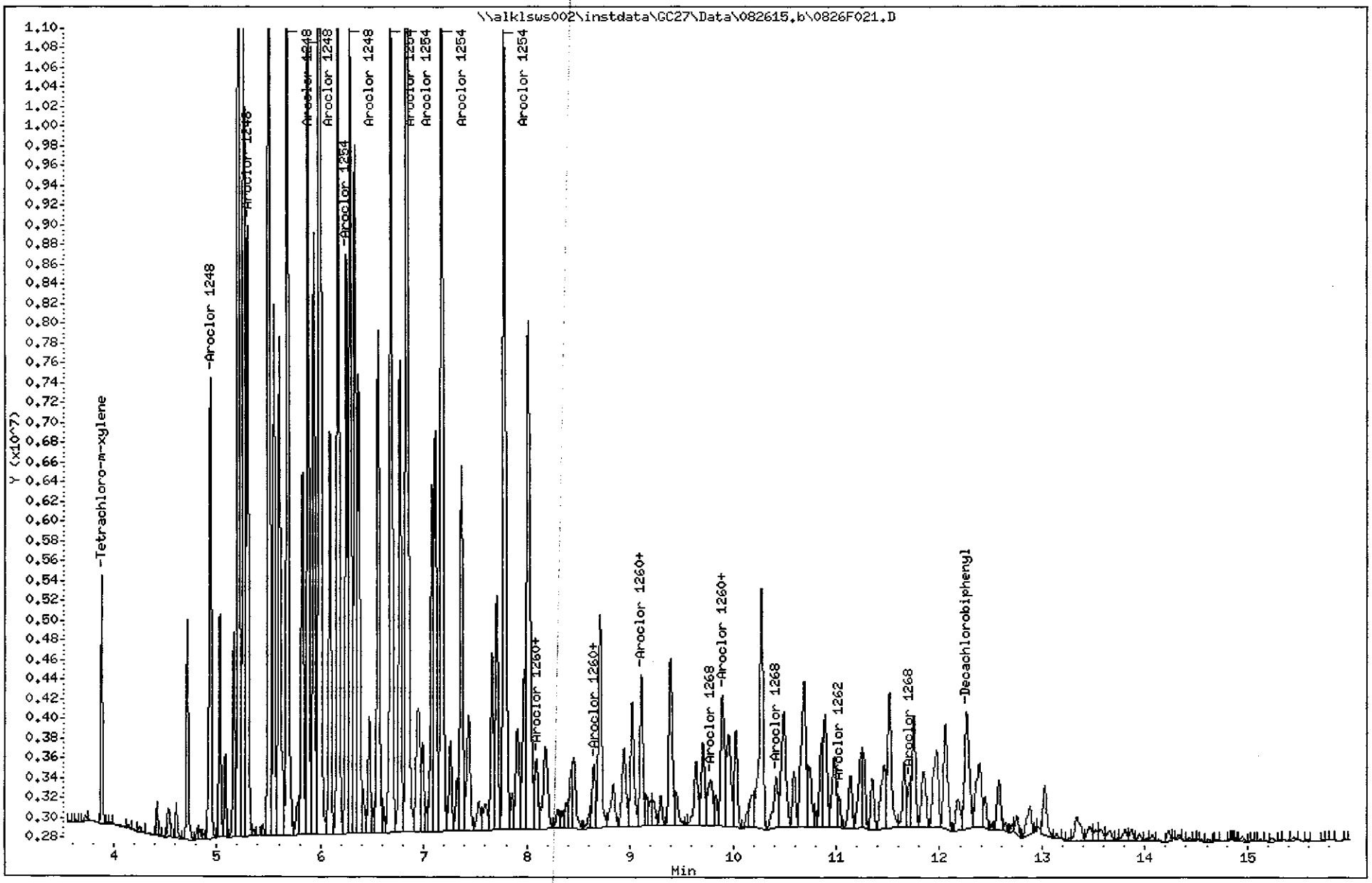
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F021.D
Date : 26-AUG-2015 20:41
Client ID:
Sample Info: K1508581-001 5X

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

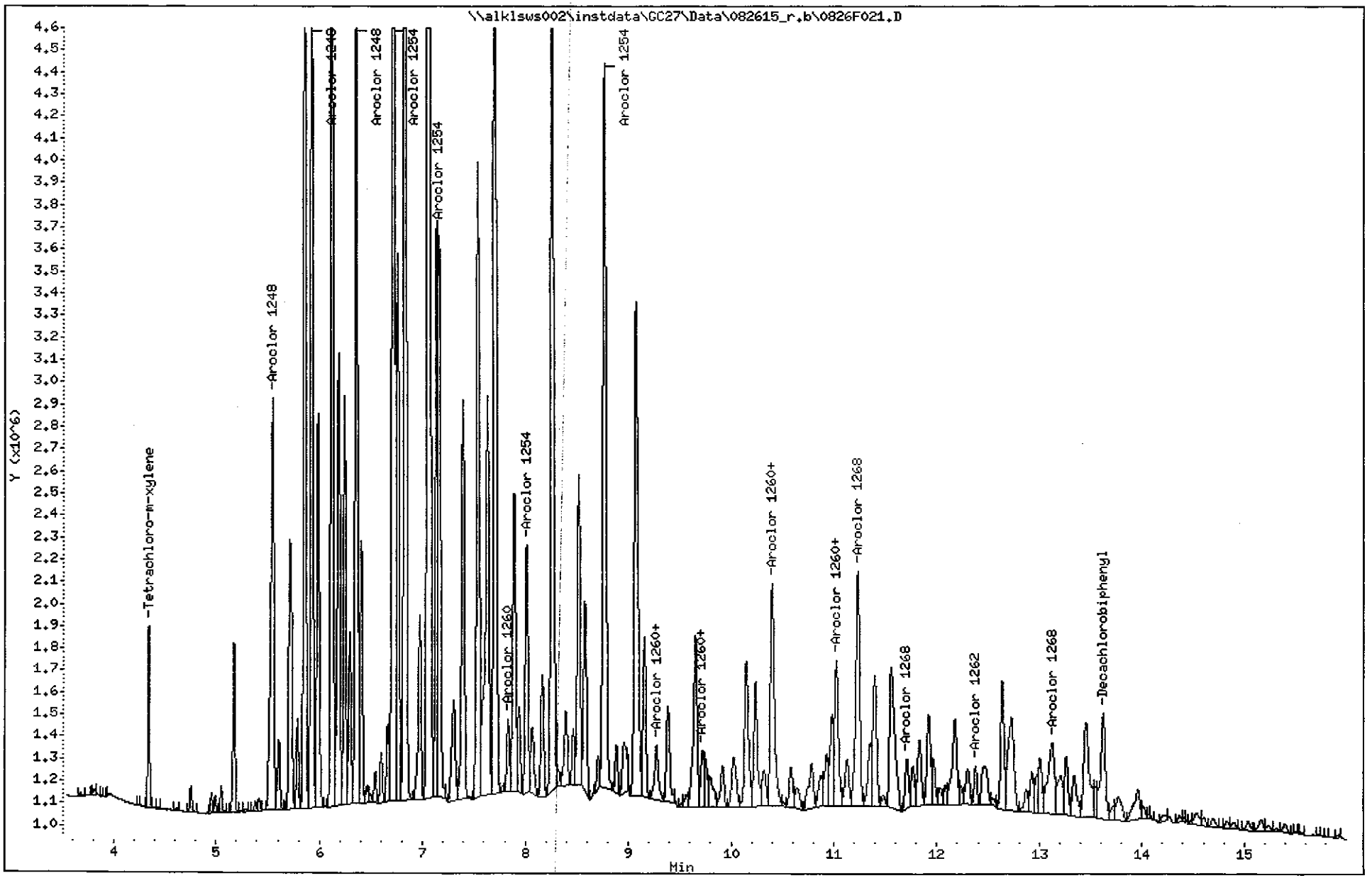


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F021.D
Date : 26-AUG-2015 20:41
Client ID:
Sample Info: K1508581-001 5X

Column phase: DB-XLB

Instrument: GC27.i

Operator: HR
Column diameter: 0.32



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F005.D	**Date Acquired:**	08/28/2015 14:13
Lab ID:	K1508581-001	**Date Quantitated:**	08/29/2015 18:33
RunType:	SMPL	**Batch ID:**	KWG1508233
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK
Surrogates	Decachlorobiphenyl	150	43	148	OK

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:54
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F005.D	**Date Acquired:**	08/28/2015 14:13
Lab ID:	K1508581-001	**Date Quantitated:**	08/29/2015 18:33
RunType:	SMPL	**Batch ID:**	KWG1508233
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F005.D			**Vial:**	3
Acqu Date:	08/28/2015 14:13	**Quant Date:**	08/29/2015 18:33	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/03/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508233	**Prep Lot:**	KWG1507646	**Report Group:**	K1508581
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458718	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.28	-0.01	13.64	-0.02	1186531	328207	7.50	3.99			NR
						%Recovery =	150 *	80	OK	Limits = 43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1221 {2}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	42U	42U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F005.D			**Vial:**	3
Acqu Date:	08/28/2015 14:13	**Quant Date:**	08/29/2015 18:33	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1248 {1}	4.95	4.96	2076900	0	443.27	0.0000	940D	42U	
Aroclor 1248			0	0	702.03	616.29	1500D	1300D	**1300D**
Aroclor 1248 {2}	5.30	5.56	2944579	1180537	675.23	457.75	1400D	970D	
Aroclor 1248 {3}	5.69	5.93	5096814	1910660	793.27	642.46	1700D	1400D	
Aroclor 1248 {4}	5.89	6.37	3716786	1795999	756.94	748.65	1600D	1600D	
Aroclor 1248 {5}	6.30	7.07	3896746	0	841.46	0.0000	1800D	42U	
Aroclor 1254 {1}	6.26	6.73	2751841	2974055	707.34	809.33	1500D	1700D	
Aroclor 1254			0	0	639.16	625.70	1400D	1300D	NR
Aroclor 1254 {2}	6.69	7.07	4491195	0	618.83	0.0000	1300D	42U	
Aroclor 1254 {3}	6.85	7.17	7579282	1371270	517.90	707.89	1100D	1500D	
Aroclor 1254 {4}	7.19	8.02	5602298	668568	585.67	295.11	1200D	630D	
Aroclor 1254 {5}	7.79	8.78	4850505	2166665	766.07	690.49	1600D	1500D	
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1260			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	42U	42U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.143 g	**Dilution:**	20.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	93.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F005.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F005.D
Inj Date : 28-AUG-2015 14:13
Sample Info: K1508581-001 20X
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

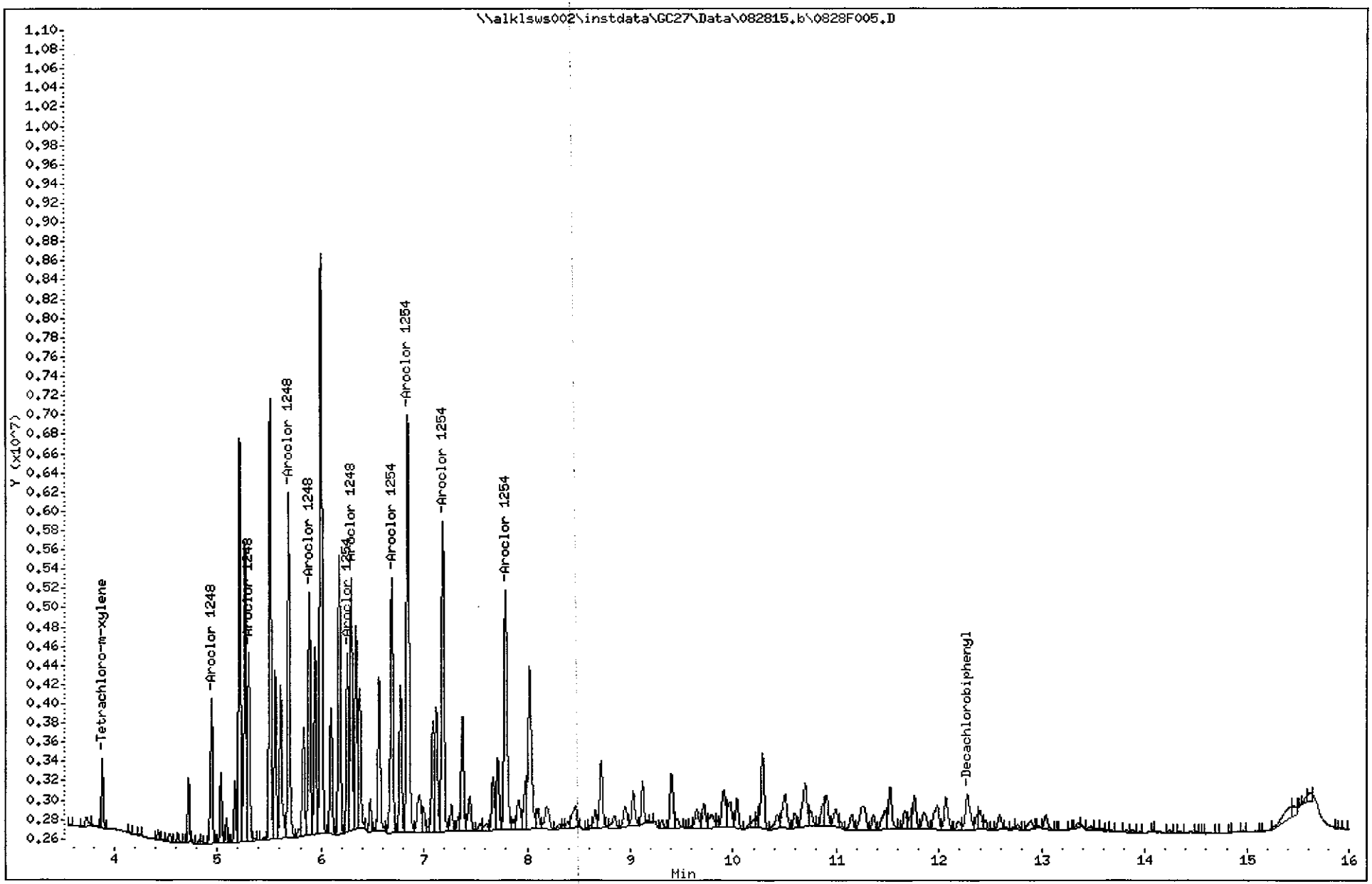
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.885	4.346	757312	244957	4.28	3.11		100.00
Aroclor 1248	4.945	4.962	2076900		443		80.00- 120.00	100.00
	5.302	5.559	2944579	1180537	675	458	17.18- 25.77	141.78
	5.689	5.932	5096814	1910660	793	642	19.47- 29.21	245.40
	5.885	6.366	3716786	1795999	757	749	3.05- 4.58	178.96
	6.295	7.066	3896746		841		0.69- 1.04	187.62
		Average of Peak Amounts =			702	616		
Aroclor 1254	6.259	6.726	2751841	2974055	707	809	80.00- 120.00	100.00
	6.692	7.066	4491195		619		1017.66-1526.49	163.21
	6.845	7.169	7579282	1371270	518	708	9646.23-14469.35	275.43
	7.185	8.022	5602298	668568	586	295	1126.72-1690.08	203.58
	7.792	8.782	4850505	2166665	766	690	281.12- 421.67	176.26
		Average of Peak Amounts =			639	626		
Decachlorobiphenyl	12.275	13.636	1186531	328207	7.50	3.99		100.00
Aroclors, Total	0.000	0.000	8601389	3424204	1340	1240		0.00

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F005.D
Date : 28-AUG-2015 14:13
Client ID:
Sample Info: K1508581-001 20X

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

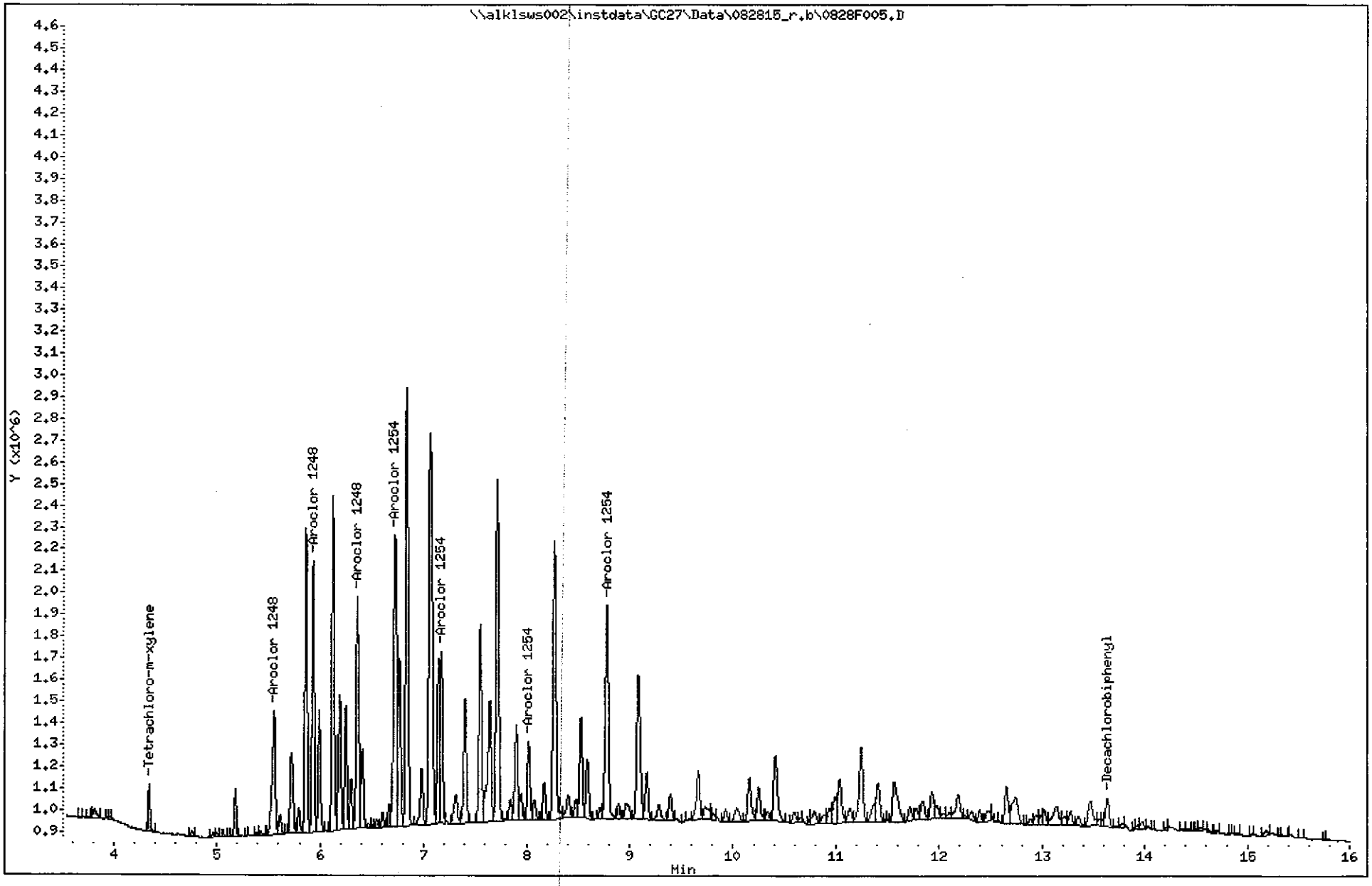


Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F005.D
Date : 28-AUG-2015 14:13
Client ID:
Sample Info: K1508581-001 20X

Column phase: DB-XLB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F007.D
Lab ID: K1508581-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/24/2015 11:38
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV dl

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 09:26:38
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F007.D
Lab ID: K1508581-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/24/2015 11:38
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Printed: 08/25/2015 09:26:42
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082415.B\0824F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F007.D			**Vial:**	8
Acqu Date:	08/24/2015 11:38	**Quant Date:**	08/25/2015 09:01	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/05/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508004	**Prep Lot:**	KWG1507505	**Report Group:**	K1508581
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1457804	**Prep Date:**	08/13/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:		**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

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Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 0.00	13.62 0.00	2130270	533695	13.47	6.48			135 OK
			%Recovery =		135 OK	65 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {1}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {2}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	21U	21U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082415.B\0824F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F007.D			**Vial:**	8
Acqu Date:	08/24/2015 11:38	**Quant Date:**	08/25/2015 09:01	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508581-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {1}	4.94	4.95	5412318	239207	1,155	191.98	1300D	210D	RPD
Aroclor 1248			0	0	1,096	788.47	1200D	860D	**860**D
Aroclor 1248 {2}	5.29	5.51	4901698	754009	1,124	292.36	1200D	320D	RPD
Aroclor 1248 {3}	5.68	5.92	7482812	2892987	1,165	972.77	1300D	1100D	
Aroclor 1248 {4}	5.87	6.35	4579468	2629765	932.63	1,096	1000D	1200D	
Aroclor 1248 {5}	6.28	7.05	5110318	5927203	1,104	1,389	1200D	1500D	
Aroclor 1254 {1}	6.25	6.71	3633195	3950424	933.88	1,075	1000D	1200D	
Aroclor 1254			0	0	860.57	988.86	940D	1100D	**940**D
Aroclor 1254 {2}	6.68	7.05	6131225	5927203	844.81	1,023	930D	1100D	
Aroclor 1254 {3}	6.84	7.16	11968615	1715385	817.83	885.53	900D	970D	
Aroclor 1254 {4}	7.17	8.01	7000693	2064445	731.86	911.25	800D	1000D	
Aroclor 1254 {5}	7.78	8.77	6170168	3292715	974.49	1,049	1100D	1200D	
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	5467008	856948	554.99	388.48	610D	430D	
Aroclor 1260			0	0	501.20	483.86	550D	530D	**530**D
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.01	4296032	1784357	529.47	472.07	580D	520D	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.00	4134375	1521579	502.29	421.63	550D	460D	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	8793452	4933876	467.77	571.42	510D	630D	
Aroclor 1260 {5}	9.89 +0.00	11.03 0.00	6404981	3159603	451.48	565.70	500D	620D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.206 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	90.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F007.D
Report Date: 25-Aug-2015 09:01

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082415.b\0824F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\0824F007.D
Inj Date : 24-AUG-2015 11:38
Sample Info: K1508581-002 10X
Misc Info :
Cal Date : 24-AUG-2015 15:40
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082415.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	1185611	386370	6.70	4.91		100.00
Aroclor 1248	4.938	4.954	5412318	239207	1160	192	80.00- 120.00	100.00(H)
	5.291	5.514	4901698	754009	1120	292	17.18- 25.77	90.57(H)
	5.681	5.921	7482812	2892987	1160	973	19.47- 29.21	138.26(H)
	5.874	6.354	4579468	2629765	933	1100	3.05- 4.58	84.61(H)
	6.284	7.054	5110318	5927203	1100	1390	0.69- 1.04	94.42(H)
		Average of Peak Amounts =			1090	789		
Aroclor 1254	6.248	6.714	3633195	3950424	934	1080	80.00- 120.00	100.00(H)
	6.681	7.054	6131225	5927203	845	1020	1017.66-1526.49	168.76(H)
	6.838	7.158	11968615	1715385	818	886	9646.23-14469.35	329.42(H)
	7.174	8.014	7000693	2064445	732	911	1126.72-1690.08	192.69(H)
	7.781	8.768	6170168	3292715	974	1050	281.12- 421.67	169.83(H)
		Average of Peak Amounts =			861	989		
Aroclor 1260	7.078	7.834	5467008	856948	555	388	80.00- 120.00	100.00(H)
	8.094	9.271	4296032	1784357	529	472	70.82- 106.24	78.58(H)
	8.648	9.718	4134375	1521579	502	422	71.90- 107.84	75.62(H)
	9.111	10.398	8793452	4933876	468	571	163.93- 245.89	160.85(H)
	9.894	11.028	6404981	3159603	451	566	127.56- 191.34	117.16(H)
		Average of Peak Amounts =			501	484		
Decachlorobiphenyl	12.261	13.621	2130270	533695	13.5	6.48		100.00
Aroclors, Total	0.000	0.000	18297271	8329941	2460	2260		0.00

QC Flag Legend

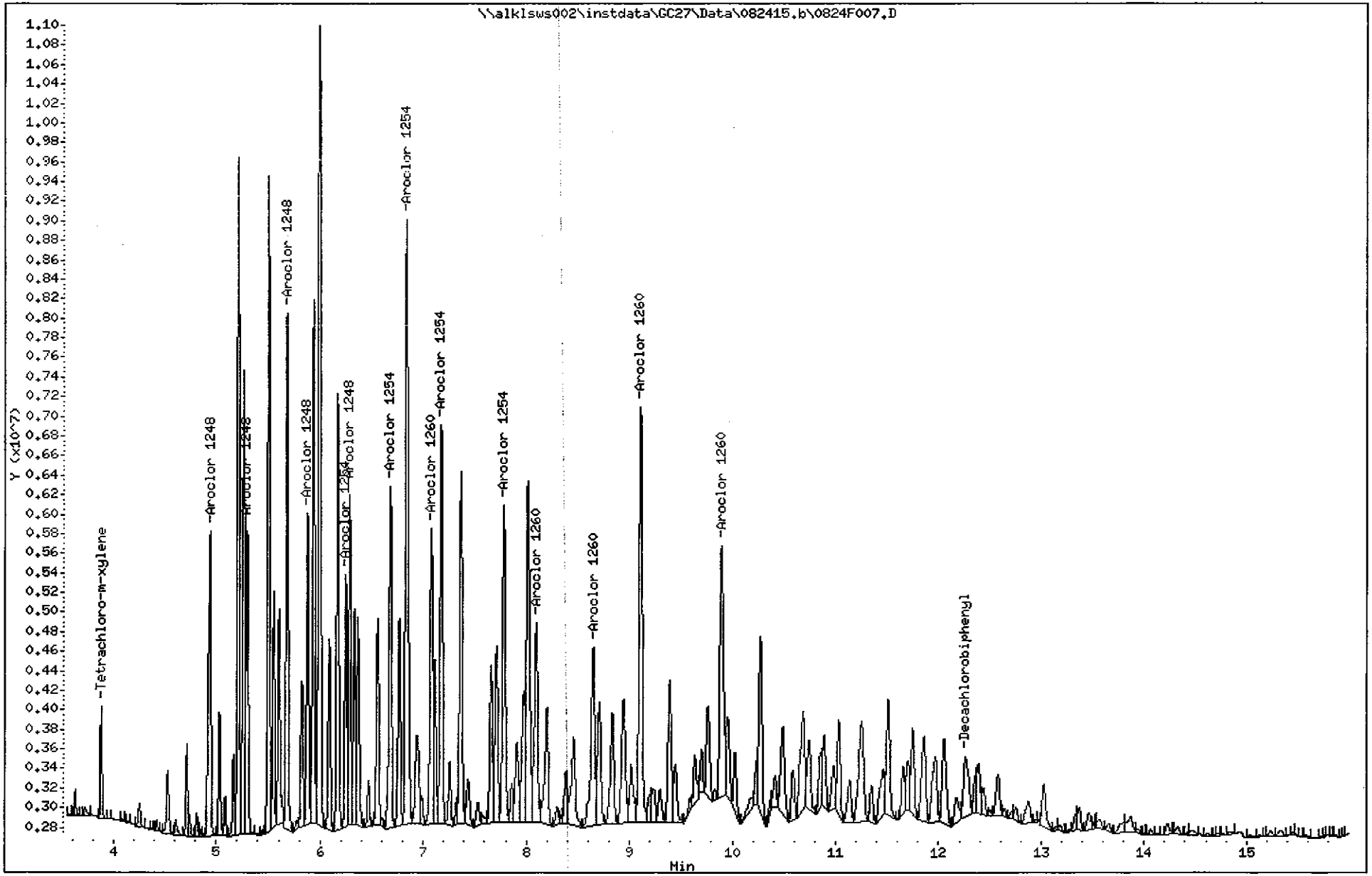
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F007.D
Date : 24-AUG-2015 11:38
Client ID:
Sample Info: K1508581-002 10X

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

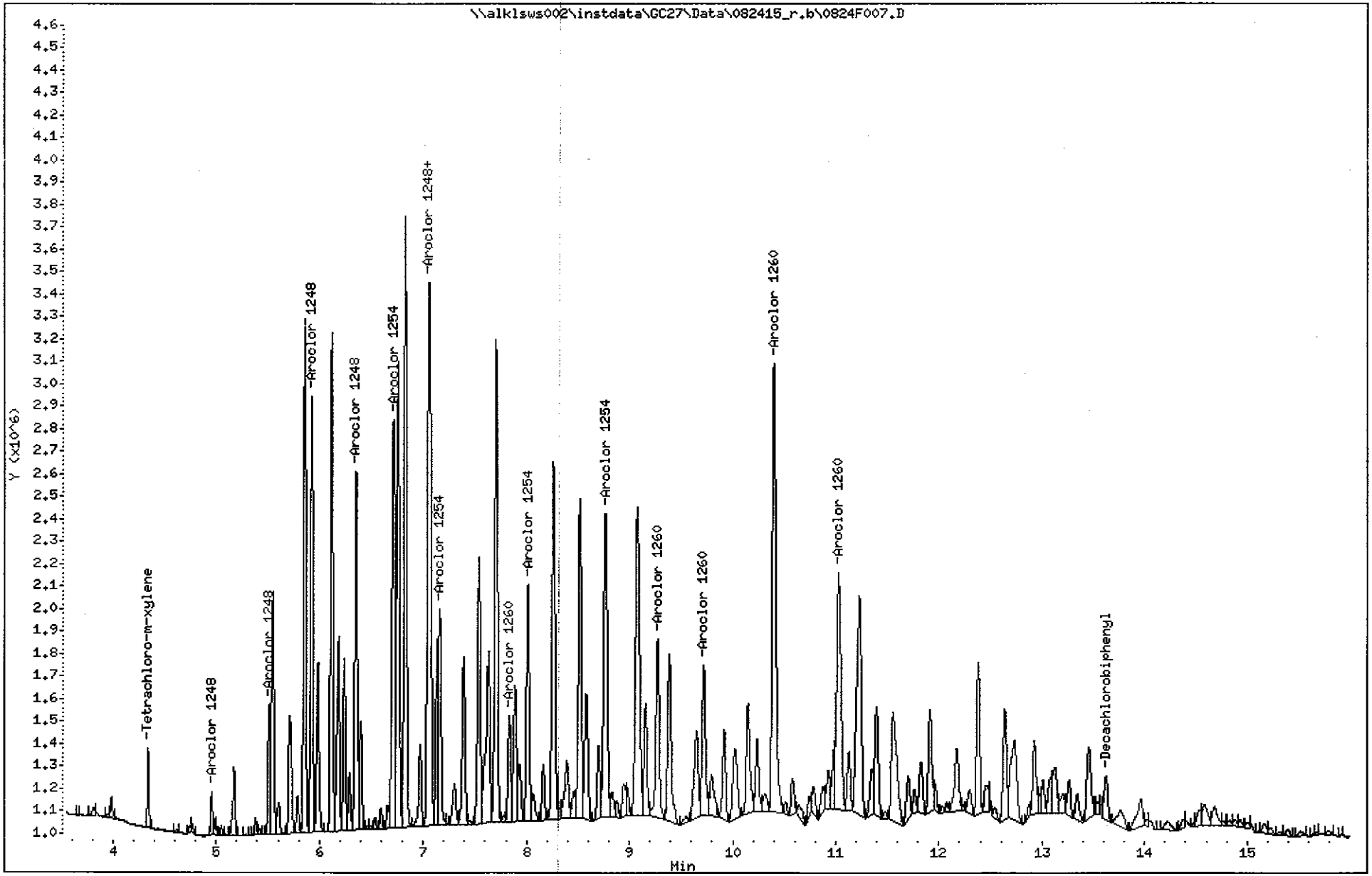


Data File: \\alklsws002\instdata\GC27\Data\082415_r.b\0824F007.D
Date : 24-AUG-2015 11:38
Client ID:
Sample Info: K1508581-002 10X

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F022.D
Lab ID: KWG1507505-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/20/2015 18:58
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OC

Primary Review: MMC 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:01:41
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F022.D
Lab ID: KWG1507505-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/20/2015 18:58
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual
Continuing Calibration Recovery (Closing)	Aroclor 1016	-21.5	NA	20	RD

Primary Review: mr 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:01:45
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F022.D			**Vial:**	18
Acqu Date:	08/20/2015 18:58	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508035	**Prep Lot:**	KWG1507505	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1457808	**Prep Date:**	08/13/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	-0.01	10980920	4287493	62.03	54.51			62	OK
						%Recovery =	62 OK	55 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.62	-0.01	11050715	5482085	69.88	66.57			70	OK
						%Recovery =	70 OK	67 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000CCV	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F022.D			**Vial:**	18
Acqu Date:	08/20/2015 18:58	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.499 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F022.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F022.D
Inj Date : 20-AUG-2015 18:58
Sample Info: KWG1507505-4 MB
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

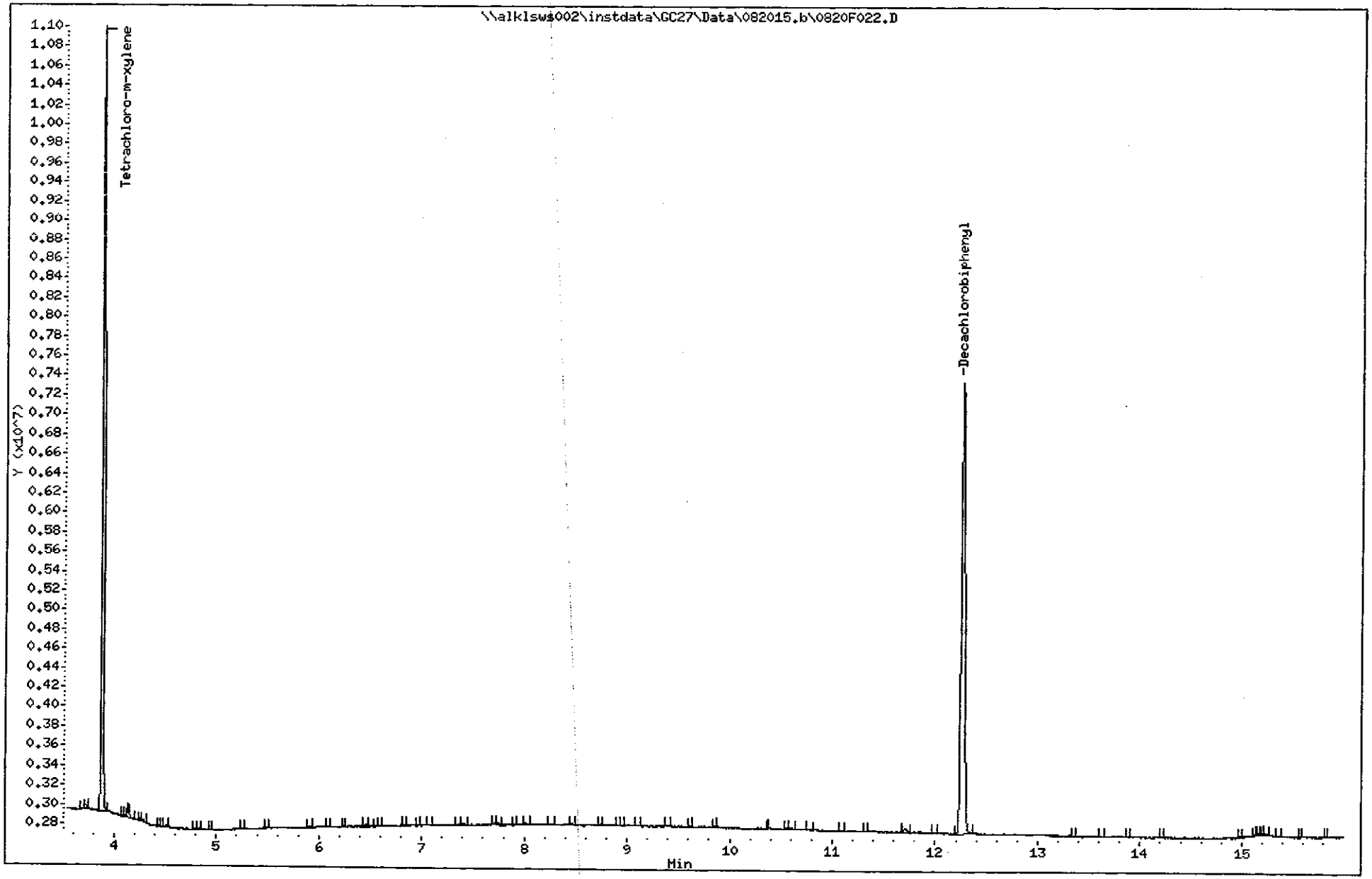
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.337	10980920	4287493	62.0	54.5		100.00
Decachlorobiphenyl	12.261	13.624	11050715	5482085	69.9	66.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F022.D
Date : 20-AUG-2015 18:58
Client ID:
Sample Info: KWG1507505-4 MB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-35MS

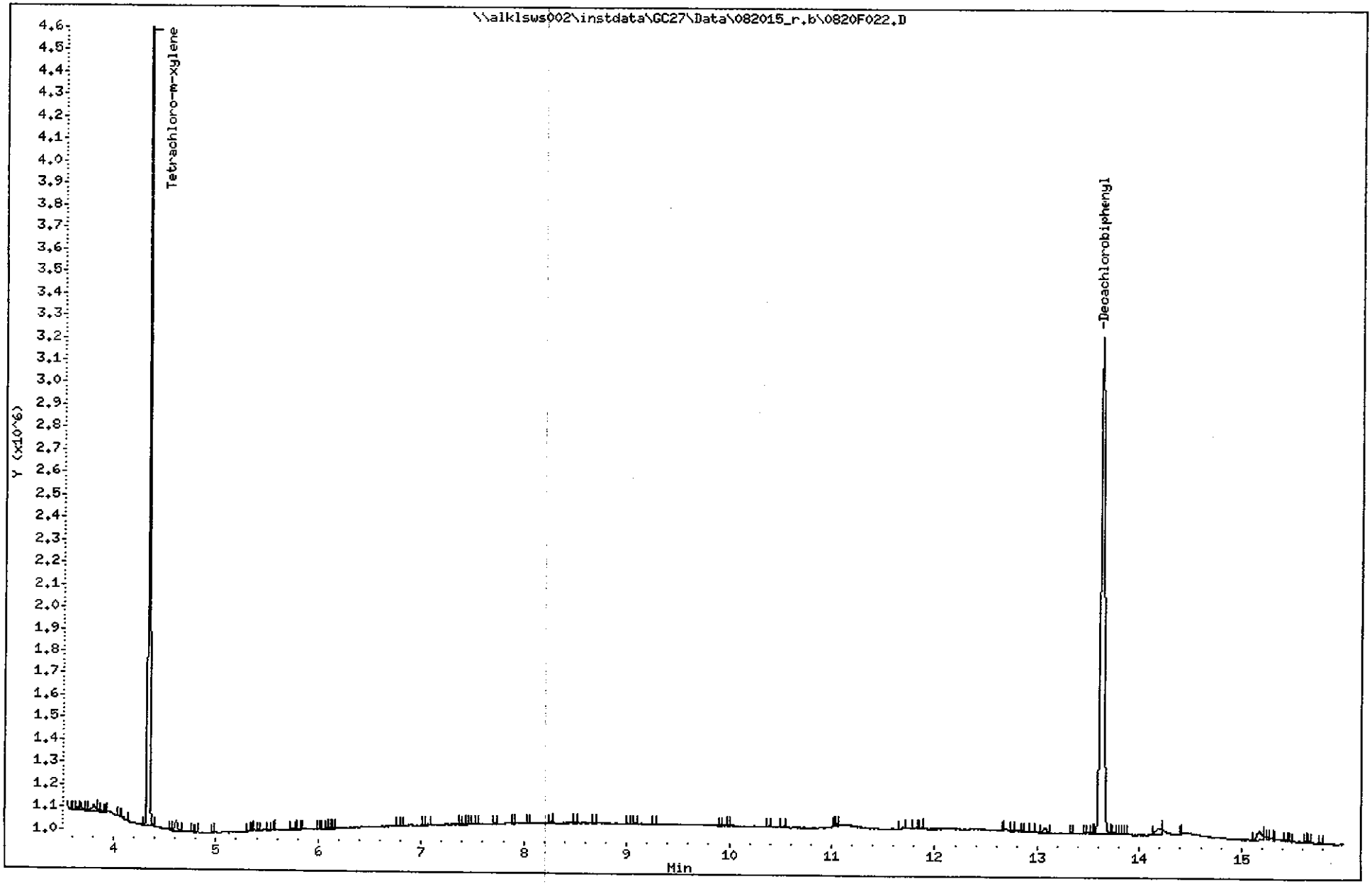


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F022.D
Date : 20-AUG-2015 18:58
Client ID:
Sample Info: KWG1507505-4 MB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IQ ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	NR

Primary Review: MR 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:51:59
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F006.D
Lab ID: KWG1507646-4
RunType: MB
Matrix: SOIL

Date Acquired: 08/25/2015 13:01
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TQ ok
	Aroclor 1260	22.7	NA	20	TQ Qid

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:52:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458723	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	14786695	5511595	83.53 CCV	70.07			70 OK
			%Recovery =		84 OK	70 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 +0.00	13.63 +0.00	13992543	6978725	88.49	84.75			88 OK
			%Recovery =		88 OK	85 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D			**Vial:**	7
Acqu Date:	08/25/2015 13:01	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.441 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Inj Date : 25-AUG-2015 13:01
Sample Info: KWG1507646-4 MB
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.338	14786695	5511595	83.5	70.1		100.00
Decachlorobiphenyl	12.262	13.625	13992543	6978725	88.5	84.7		100.00

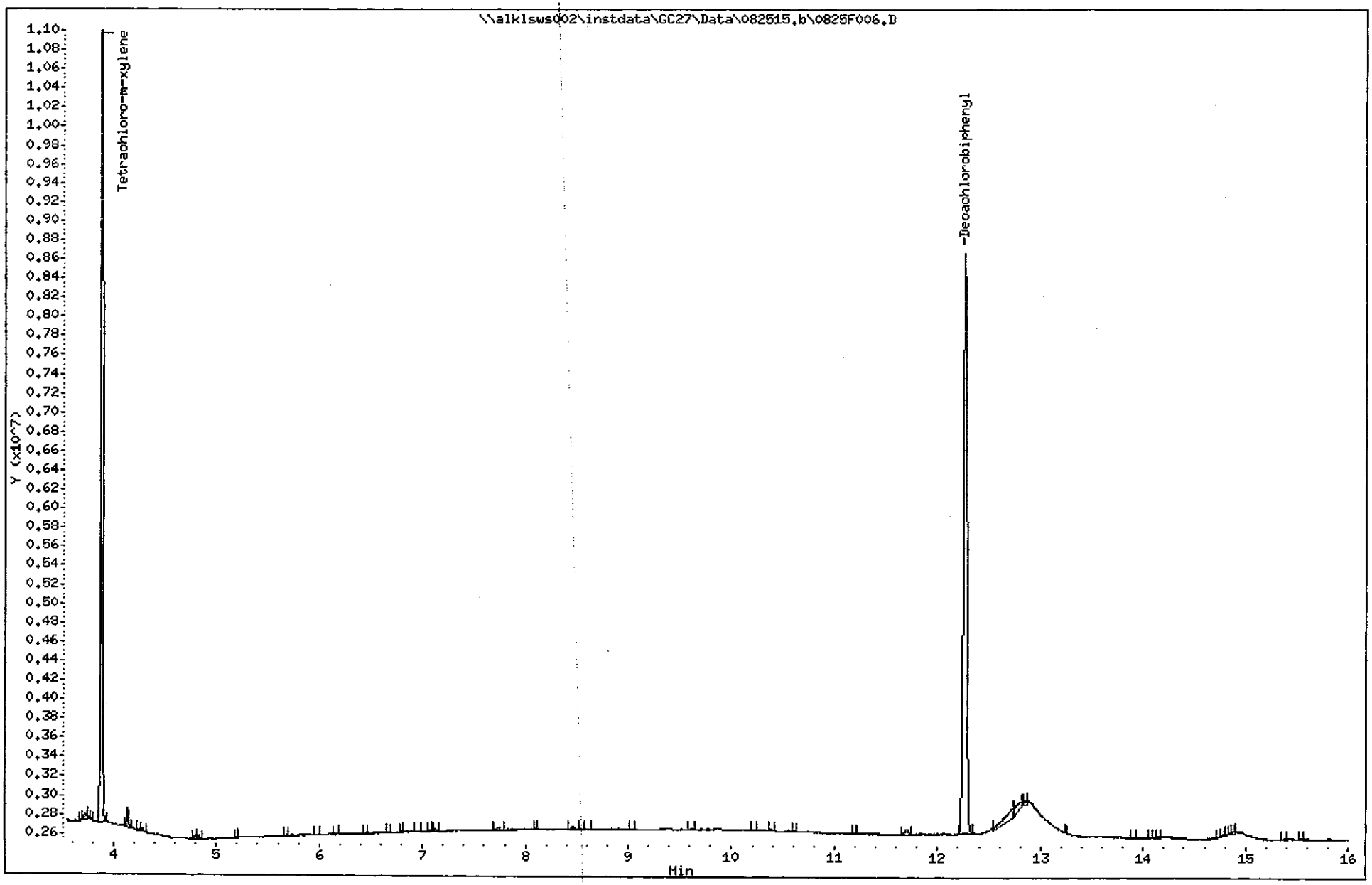
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



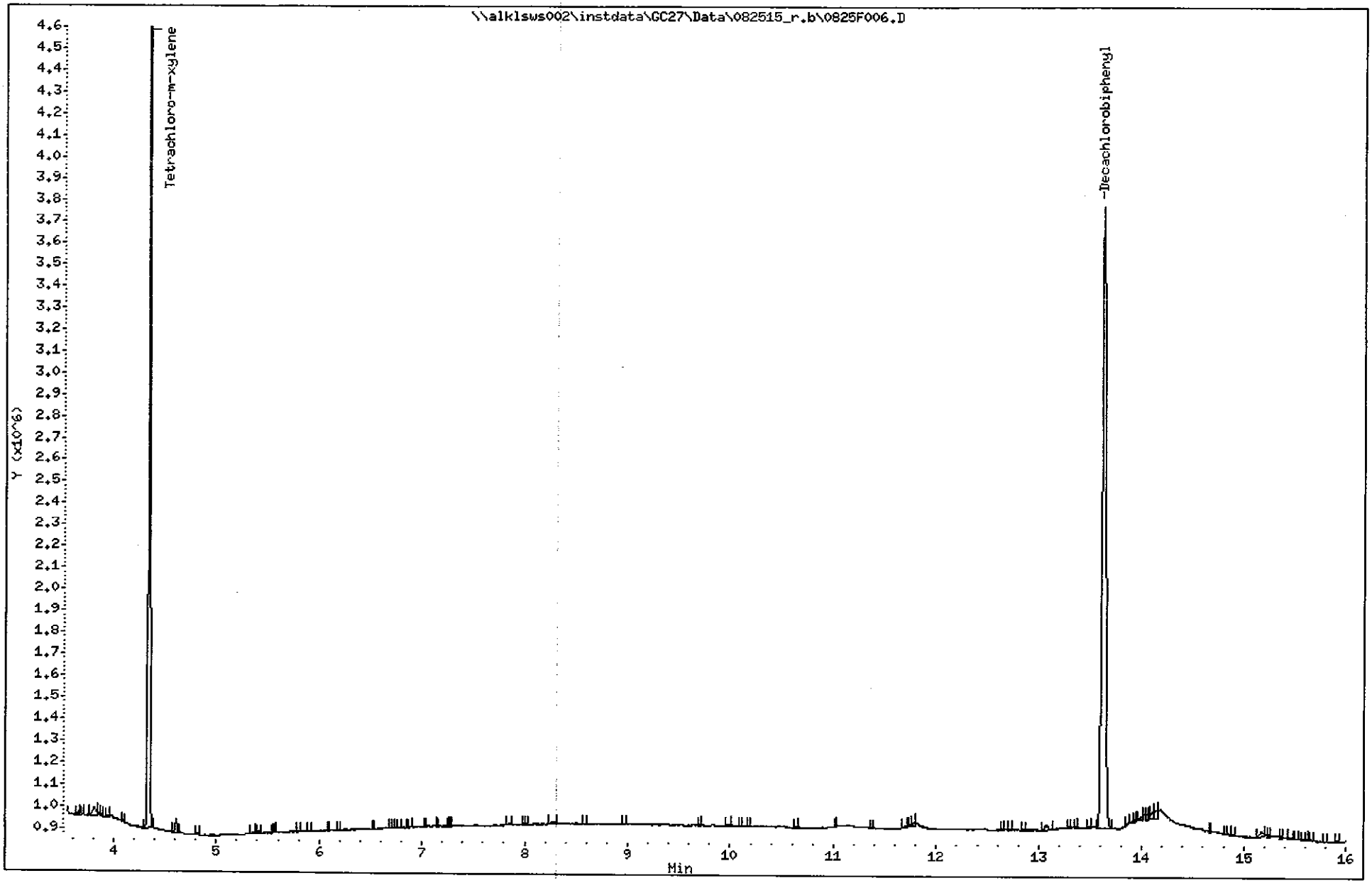
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F006.D
Date : 25-AUG-2015 13:01
Client ID:
Sample Info: KWG1507646-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F024.D
Lab ID: K1508684-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/20/2015 19:44
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Printed: 08/25/2015 15:01:50
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F024.D
Lab ID: K1508684-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/20/2015 19:44
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual
Continuing Calibration Recovery (Closing)	Aroclor 1016	-21.5	NA	20	RO

Primary Review: MM 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:01:55
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F024.D			**Vial:**	20
Acqu Date:	08/20/2015 19:44	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508684-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/03/2015	**Receive Date:**	08/07/2015

Analysis Lot:	KWG1508035	**Prep Lot:**	KWG1507505	**Report Group:**	K1508684
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1457801	**Prep Date:**	08/13/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:	J:\GC27\DATA\082015.B\0820F022.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26	0.00	13.63	0.00	9302951	4371635	58.83	53.09			59 OK
						%Recovery =	59 OK	53 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}	4.25	+0.01	4.61	-0.01	69801	0	19.45	0.0000	4.4J	2.4U	
Aroclor 1016					0	0	9.89	4.72CCV	2.4U	2.4U	2.4U
Aroclor 1016 {2}	4.74	0.00	4.97	+0.01	56360	20562	18.81	8.45	4.3J	2.4U	
Aroclor 1016 {3}	4.94		5.58	-0.01	26237	10296	2.65	3.43	2.4U	2.4U	
Aroclor 1016 {4}	5.21	0.00	5.95	+0.03	32092	6249	6.47	2.85	2.4U	2.4U	
Aroclor 1016 {5}	5.50	-0.01	6.12	0.00	10681	8995	2.06	4.17	2.4U	2.4U	
Aroclor 1221 {1}	4.05				9073	0d	4.63	0.0000	2.4U	2.4U	
Aroclor 1221					0	0	69.30	0.0000	16J	2.4U	2.4U
Aroclor 1221 {2}	4.15				257253	0d	188.90	0.0000	43	2.4U	
Aroclor 1221 {3}	4.25				69801	0d	14.36	0.0000	3.3J	2.4U	
Aroclor 1232 {1}	4.05		4.61		9073	0	6.20	0.0000	2.4U	2.4U	
Aroclor 1232					0	0	11.45	10.97	2.6J	2.5J	2.5J Onm
Aroclor 1232 {2}	4.25		4.97		69801	20562	15.80	20.59	3.6J	4.7J	
Aroclor 1232 {3}	4.54				70285	0	18.03	0.0000	4.1J	2.4U	
Aroclor 1232 {4}	4.94		5.51		26237	7264	5.75	4.74	2.4U	2.4U	
Aroclor 1232 {5}			5.95		0	6249	0.0000	7.58	2.4U	2.4U	
Aroclor 1242 {1}	4.54		4.97		70285	0	11.74	0.0000	2.7J	2.4U	
Aroclor 1242					0	0	7.13	2.94	2.4U	2.4U	2.4U
Aroclor 1242 {2}	4.94		5.55		26237	7309	3.39	2.22	2.4U	2.4U	
Aroclor 1242 {3}	5.16		5.72		8106	4740	2.59	2.70	2.4U	2.4U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F024.D			**Vial:**	20
Acqu Date:	08/20/2015 19:44	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508684-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}	5.50	5.95	10681	6249	2.54	3.90	2.4U	2.4U	
Aroclor 1242 {5}	5.99	6.83	76308	0	15.42	0.0000	3.5J	2.4U	
Aroclor 1248 {1}	4.92	4.97	20940	0	4.47	0.0000	2.4U	2.4U	
Aroclor 1248			0	0	4.11	2.33	2.4U	2.4U	2.4U
Aroclor 1248 {2}	5.28	5.51	30552	7264	7.01	2.82	2.4U	2.4U	
Aroclor 1248 {3}	5.72	5.95	16025	6249	2.49	2.10	2.4U	2.4U	
Aroclor 1248 {4}	5.87	6.35	12207	4943	2.49	2.06	2.4U	2.4U	
Aroclor 1248 {5}	6.25	7.05	0	0	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254 {1}	6.25	6.71	0	10553	0.0000	2.87	2.4U	2.4U	
Aroclor 1254			0	0	4.68	3.57	2.4U	2.4U	2.4U
Aroclor 1254 {2}	6.68	7.05	19114	0	2.63	0.0000	2.4U	2.4U	
Aroclor 1254 {3}	6.83	7.13	93807	3692	6.41	1.91	2.4U	2.4U	
Aroclor 1254 {4}		8.01	0	16022	0.0000	7.07	2.4U	2.4U	
Aroclor 1254 {5}	7.78	8.77	31547	7621	4.98	2.43	2.4U	2.4U	
Aroclor 1260 {1}	7.12 +0.04	7.83 -0.01	0	18309	0.0000	8.30	2.4U	2.4U	
Aroclor 1260			0	0	10.59	6.05	2.4J	2.4U	2.4U
Aroclor 1260 {2}	8.09 -0.01	9.27 -0.01	106426	28188	13.12	7.46	3.0J	2.4U	
Aroclor 1260 {3}	8.65	9.71 -0.01	116595	9888	14.17	2.74	3.2J	2.4U	
Aroclor 1260 {4}	9.12 +0.01	10.39 -0.01	259519	49242	13.81	5.70	3.2J	2.4U	
Aroclor 1260 {5}	9.85 -0.04	11.04 +0.01	18033	0	1.27	0.0000	2.4U	2.4U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.163 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	43.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F024.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F024.D
Inj Date : 20-AUG-2015 19:44
Sample Info: K1508684-001
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	9309399	3288877	52.6	41.8		100.00
Aroclor 1016	4.251	4.611	69801		19.4		80.00- 120.00	100.00(H)
	4.744	4.968	56360	20562	18.8	8.45	64.65- 96.97	80.74(H)
	4.938	5.578	26237	10296	2.65	3.43	205.86- 308.80	37.59(H)
	5.208	5.951	32092	6249	6.47	2.85	100.27- 150.40	45.98(H)
	5.498	6.115	10681	8995	2.06	4.17	103.66- 155.49	15.30(H)
		Average of Peak Amounts =			9.88	4.73		
Aroclor 1221	4.051	0.000	9073	0	4.63	0.000	80.00- 120.00	100.00(H)
	4.154	0.000	257253	0	189	0.000	86.05- 129.08	2835.37(H)
	4.251	0.000	69801	0	14.4	0.000	428.79- 643.19	769.33(H)
		Average of Peak Amounts =			69.3	0.000		
Aroclor 1232	4.051	4.611	9073		6.20		80.00- 120.00	100.00(TH)
	4.251	4.968	69801	20562	15.8	20.6	428.79- 643.19	769.33(TH)
	4.538	0.000	70285		18.0		883.29-1324.94	774.66(TH)
	4.938	5.511	26237	7264	5.75	4.74	1638.56-2457.84	289.18(TH)
	0.000	5.951		6249		7.58	35.33- 52.99	7.68(TH)
		Average of Peak Amounts =			11.4	11.0		
Aroclor 1242	4.538	4.968	70285		11.7		80.00- 120.00	100.00(H)
	4.938	5.551	26237	7309	3.39	2.22	148.40- 222.61	37.33(H)
	5.161	5.721	8106	4740	2.59	2.70	37.98- 56.97	11.53(H)
	5.498	5.951	10681	6249	2.54	3.90	47.93- 71.89	15.20(H)
	5.991	6.828	76308		15.4		37.56- 56.34	108.57(H)
		Average of Peak Amounts =			7.12	2.94		
Aroclor 1248	4.921	4.968	20940		4.47		80.00- 120.00	100.00(H)
	5.284	5.511	30552	7264	7.01	2.82	17.18- 25.77	145.90(H)
	5.721	5.951	16025	6249	2.49	2.10	19.47- 29.21	76.53(H)
	5.874	6.348	12207	4943	2.49	2.06	3.05- 4.58	58.30(H)
	6.251	7.045					277.97- 416.96	0.00(H)

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F024.D
Report Date: 25-Aug-2015 14:07

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			4.12	2.33		
Aroclor 1254	6.251	6.705		10553		2.87	80.00- 120.00	100.00(TH)
	6.681	7.045	19114		2.63		1017.66-1526.49	27.96(TH)
	6.834	7.128	93807	3692	6.41	1.91	9646.23-14469.35	137.24(TH)
	0.000	8.011		16022		7.07	50.19- 75.29	151.82(TH)
	7.778	8.765	31547	7621	4.98	2.43	281.12- 421.67	46.15(TH)
		Average of Peak Amounts =			4.67	3.57		
Aroclor 1260	7.118	7.828		18309		8.30	80.00- 120.00	100.00(H)
	8.091	9.265	106426	28188	13.1	7.46	70.84- 106.26	0.48(H)
	8.648	9.711	116595	9888	14.2	2.74	70.88- 106.32	0.52(H)
	9.118	10.391	259519	49242	13.8	5.70	164.25- 246.38	1.17(H)
	9.854	11.041	18033		1.27		128.46- 192.69	0.08(H)
		Average of Peak Amounts =			10.6	6.05		
Aroclor 1262	8.091	9.265	106426	28188	7.89	4.87	80.00- 120.00	100.00(H)
	8.648	9.711	116595	9888	9.90	2.44	81.49- 122.24	109.55(H)
	9.118	10.391	259519	49242	11.2	5.10	185.52- 278.29	243.85(H)
	9.854	11.041	18033		1.04		145.56- 218.35	16.94(H)
	11.024	12.381	14880		1.79		49.79- 74.69	13.98(H)
		Average of Peak Amounts =			6.36	4.14		
Aroclor 1268	9.718	11.041		74631		5.77	80.00- 120.00	100.00(H)
	9.854	11.225	18033	31366	0.707	2.87	261.97- 392.95	1.53(H)
	10.394	0.000	20586		0.936		12.86- 19.30	1.75(H)
	11.704	13.075	77737	40310	1.24	1.42	30.73- 46.09	6.59(H)
		Average of Peak Amounts =			0.961	3.35		
Decachlorobiphenyl	12.261	13.625	9302951	4371635	58.8	53.1		100.00
Aroclors, Total	0.000	0.000	568355	148888	124	38.1		0.00

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

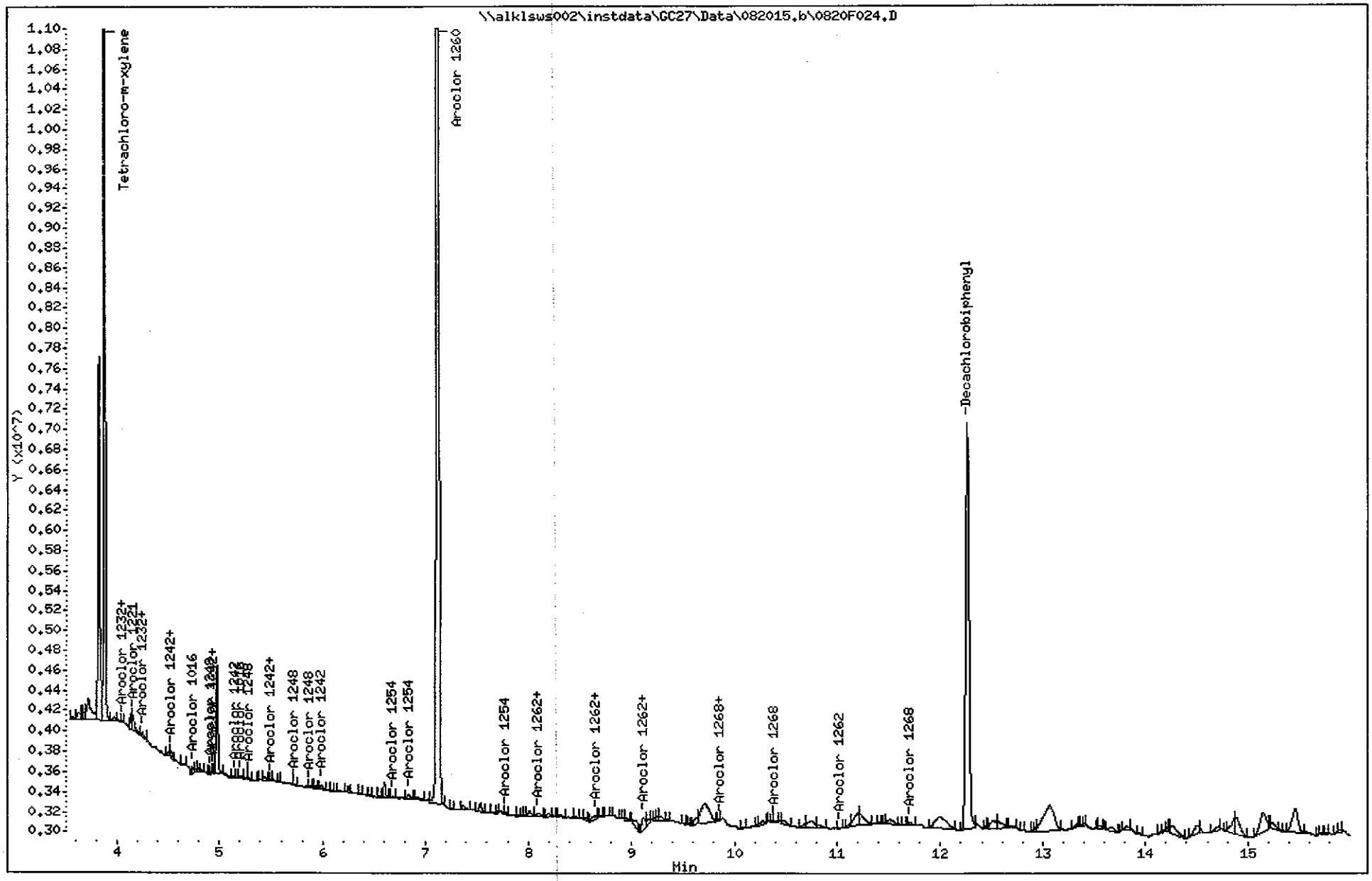
Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F024.D
Date : 20-AUG-2015 19:44
Client ID:
Sample Info: K1508684-001

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

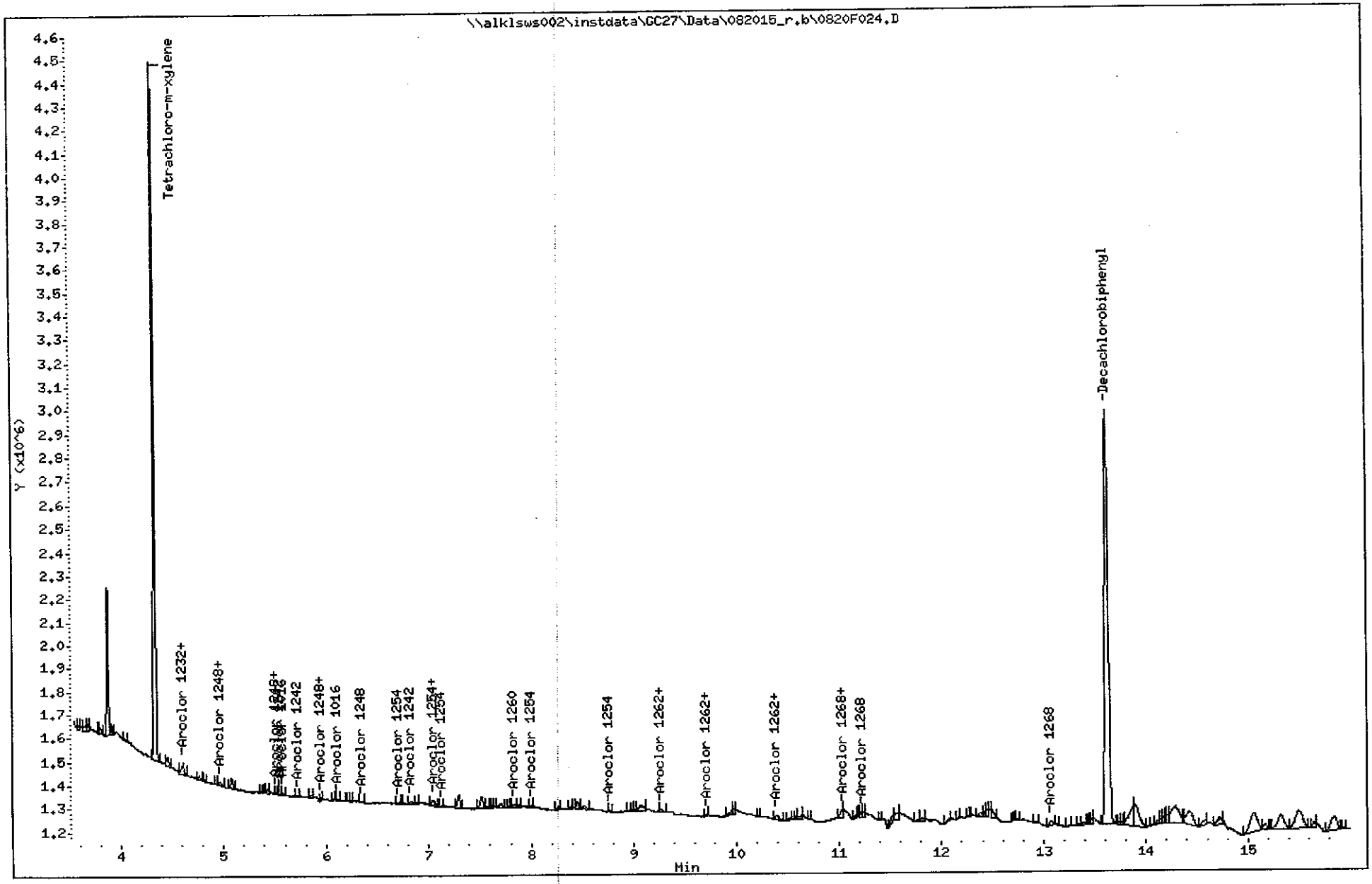


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F024.D
Date : 20-AUG-2015 19:44
Client ID:
Sample Info: K1508684-001

Column phase: DB-XLB

Instrument: GC27.i

Operator: HR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F025.D
Lab ID: KWG1507505-1 -- K1508684-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/20/2015 20:08
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV dc

Primary Review: MR 08/25/15

Secondary Review:

Printed: 08/25/2015 15:02:00
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F025.D
Lab ID: KWG1507505-1 -- K1508684-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/20/2015 20:08
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOU OK
	Aroclor 1260	22.7	NA	20	IOU Dual
Continuing Calibration Recovery (Closing)	Aroclor 1016	-21.5	NA	20	DO

Primary Review: MMC 08/25/15

Secondary Review: _____

Printed: 08/25/2015 15:02:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F025.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F025.D			**Vial:**	21
Acqu Date:	08/20/2015 20:08	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-1 -- K1508684-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508035	**Prep Lot:**	KWG1507505	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
		Prep Date:	08/13/2015		
Prep Ref:	1457805				

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082015.B\0820F022.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	14113377m	4816504	79.73	61.24			80	OK
						%Recovery =	80 OK	61 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.62	-0.01	12487960	6074831	78.97	73.77			79	OK
						%Recovery =	79 OK	74 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	686.28	552.09 CCV	156	126	**126**
Aroclor 1016 {1}	4.24	0.00	4.62	0.00	2893930m	1084014	806.34	589.74	184	134	
Aroclor 1016 {2}	4.74	0.00	4.95	0.00	1958015m	1394453	653.52	572.77	149	130	
Aroclor 1016 {3}	4.94	0.00	5.59	0.00	6158210m	1613029	622.60	537.81	142	122	
Aroclor 1016 {4}	5.21	-0.01	5.92	0.00	3267823m	1112431	658.66	506.80	150	115	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	3573201m	1192954	690.28	553.32	157	126	
Aroclor 1221					0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1232					0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1242					0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	2.4U	2.4U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F025.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F025.D			**Vial:**	21
Acqu Date:	08/20/2015 20:08	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-1 -- K1508684-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1248			0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254			0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclors, Total			12769839	5047718	1,458	1,322	332J	301J	332J
Aroclor 1260			0	0	772.09	770.33	176	175	175
Aroclor 1260 {1}	7.08 0.00	7.83 0.00	5160095	1446640	523.84	655.81	119	149	
Aroclor 1260 {2}	8.09 0.00	9.27 0.00	6927255	3065659	853.76	811.06	194	185	
Aroclor 1260 {3}	8.64 0.00	9.72 0.00	6887112	2745878	836.73	760.88	191	173	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	14959775	7117959	795.79	824.37	181	188	
Aroclor 1260 {5}	9.89 0.00	11.03 0.00	12063783	4465575	850.36	799.52	194	182	
Aroclor 1262			0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1268			0	0	0.0000	0.0000	2.4U	2.4U	2.4U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.4U	2.4U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.4U	2.4U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.280 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	43.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F025.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F025.D
Inj Date : 20-AUG-2015 20:08
Sample Info: K1508684-001 MS
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	14113377	4816504	79.7	61.2		100.00(M)
Aroclor 1016	4.237	4.618	2893930	1084014	806	590	80.00- 120.00	100.00(MH)
	4.741	4.954	1958015	1394453	654	573	64.65- 96.97	67.66(MH)
	4.937	5.591	6158210	1613029	623	538	205.86- 308.80	212.80(MH)
	5.207	5.921	3267823	1112431	659	507	100.27- 150.40	112.92(MH)
	5.501	6.118	3573201	1192954	690	553	103.66- 155.49	123.47(MH)
		Average of Peak Amounts =			686	552		
Aroclor 1260	7.077	7.834	5160095	1446640	524	656	80.00- 120.00	100.00(H)
	8.094	9.271	6927255	3065659	854	811	70.84- 106.26	134.25(H)
	8.644	9.721	6887112	2745878	837	761	70.88- 106.32	133.47(H)
	9.111	10.398	14959775	7117959	796	824	164.25- 246.38	289.91(H)
	9.894	11.031	12063783	4465575	850	800	128.46- 192.69	233.79(H)
		Average of Peak Amounts =			772	770		
Decachlorobiphenyl	12.264	13.624	12487960	6074831	79.0	73.8		100.00
Aroclors, Total	0.000	0.000	12769839	5047718	1460	1320		0.00

QC Flag Legend

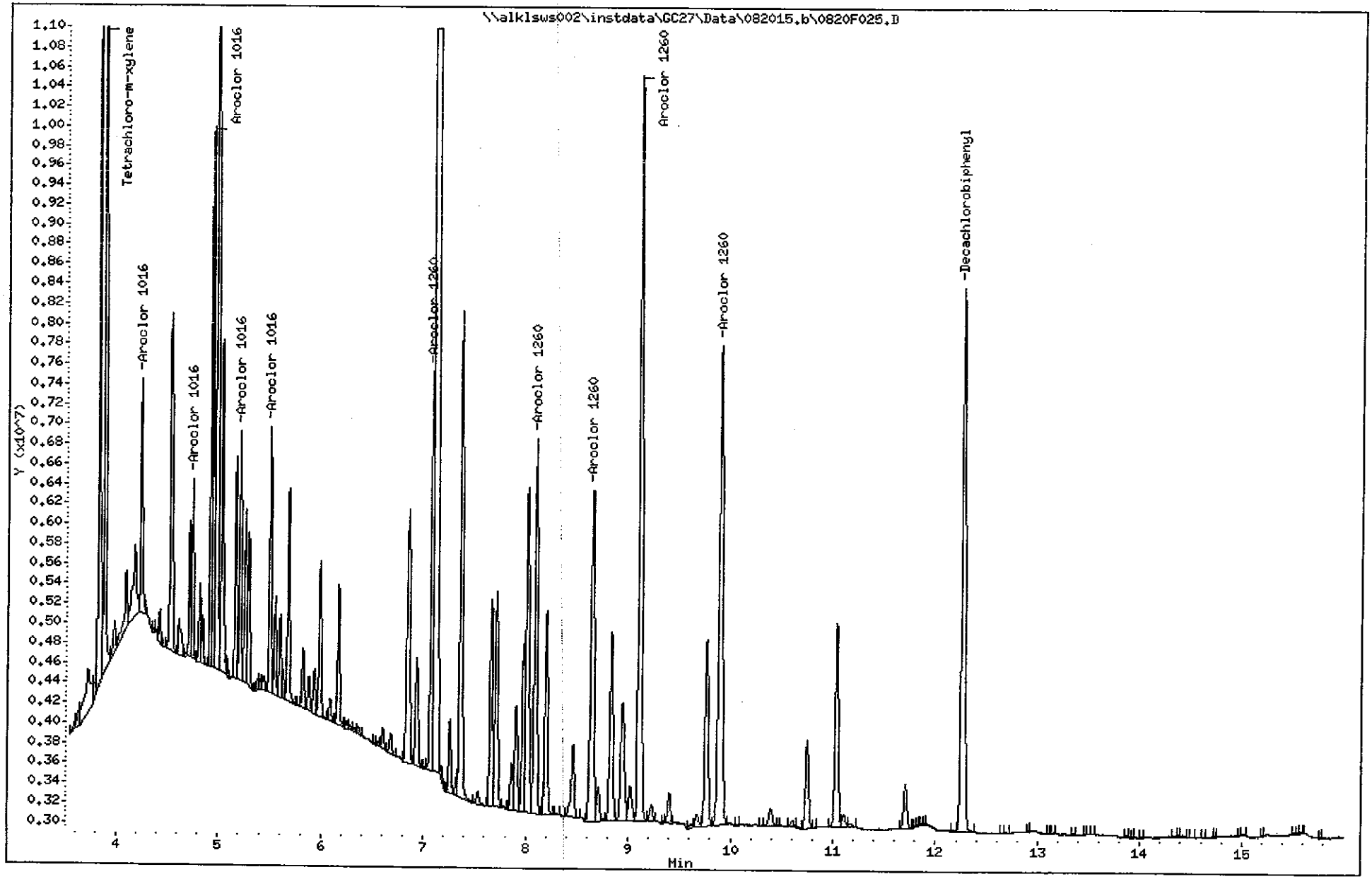
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F025.D
Date : 20-AUG-2015 20:08
Client ID:
Sample Info: K1508684-001 MS

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

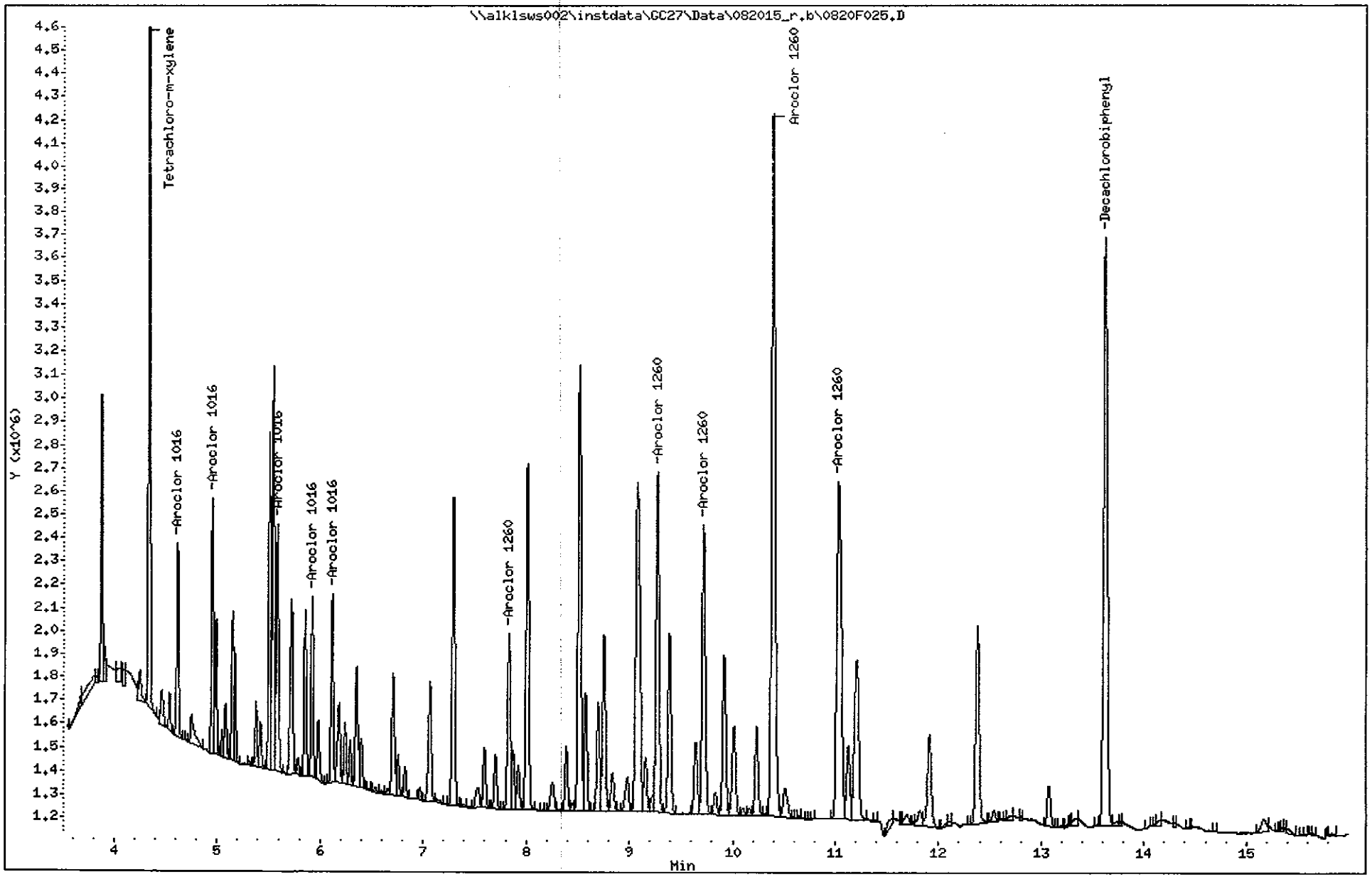


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F025.D
Date : 20-AUG-2015 20:08
Client ID:
Sample Info: K1508684-001 MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

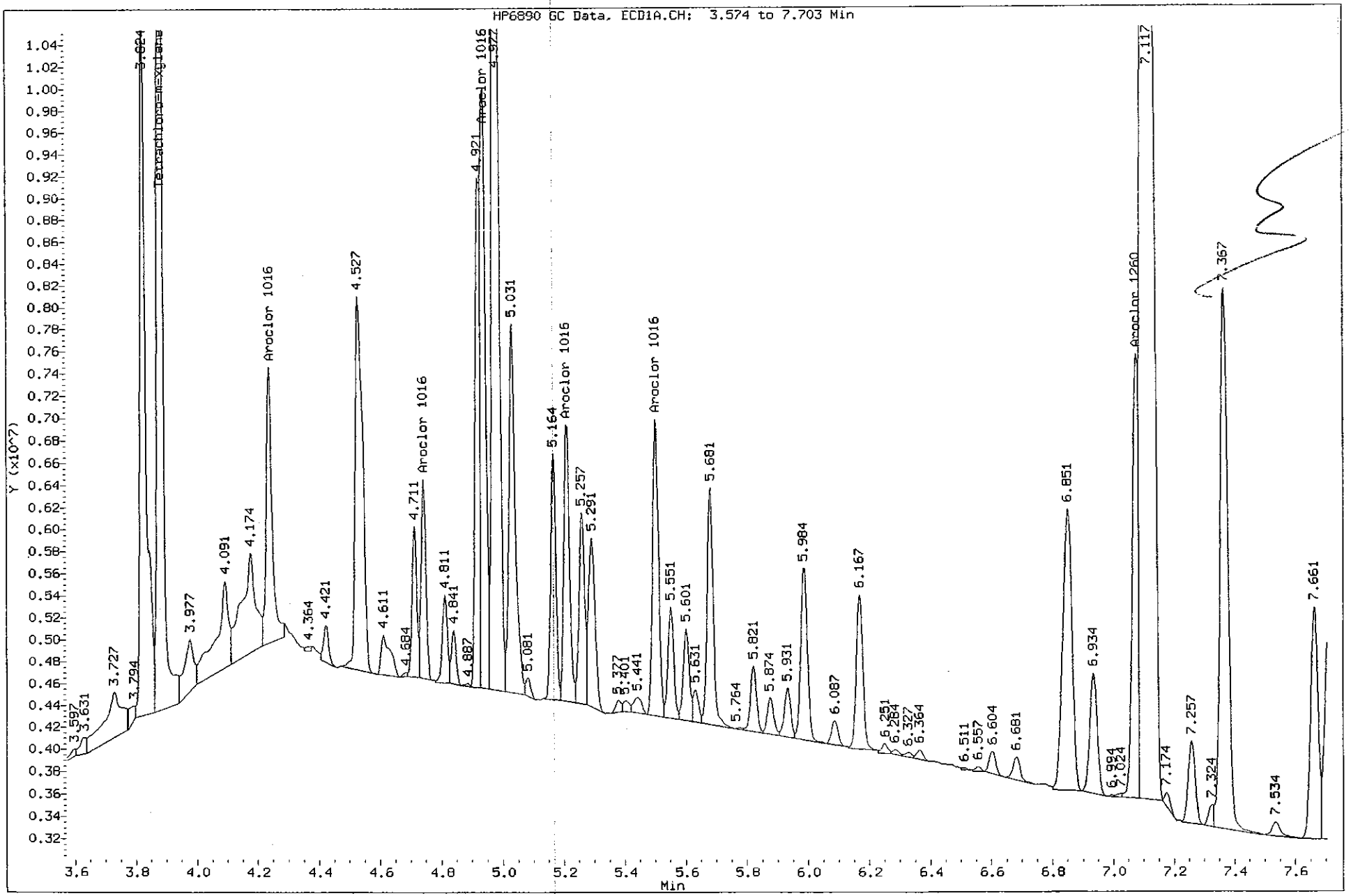
Column phase: DB-XLB



AUG 2 5 2015

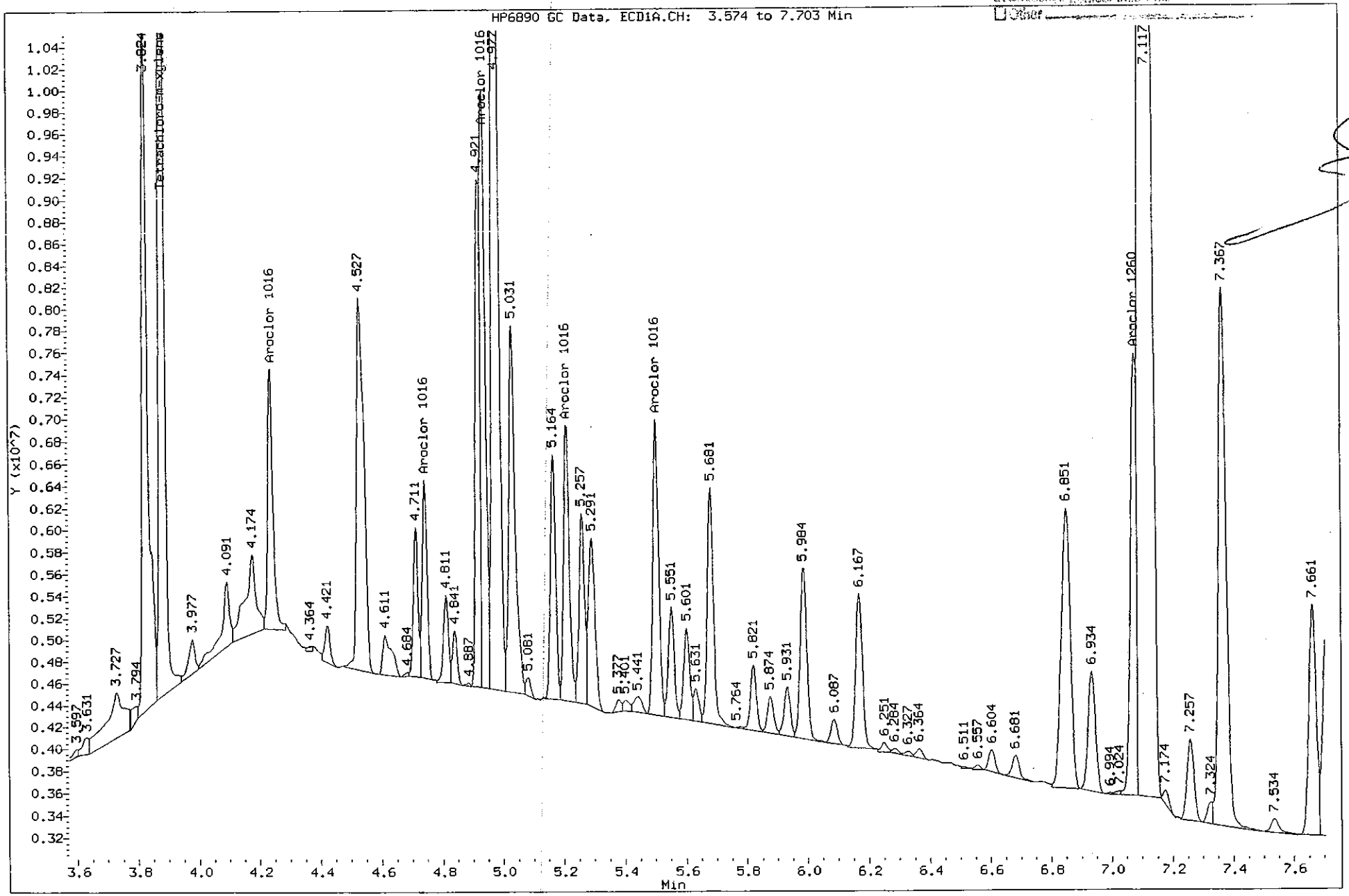
mr

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F025.D
Injection Date: 20-AUG-2015 20:08
Instrument: GC27.i
Client Sample ID:



Initials

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F025.D
Injection Date: 20-AUG-2015 20:08
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F026.D
Lab ID: KWG1507505-2 -- K1508684-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/20/2015 20:31
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JOUK

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:02:08
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Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F026.D
Lab ID: KWG1507505-2 -- K1508684-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/20/2015 20:31
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	JOU ✗
	Aroclor 1260	22.7	NA	20	JOU Dual
Continuing Calibration Recovery (Closing)	Aroclor 1016	-21.5	NA	20	RO

Primary Review: MR 08/25/15

Secondary Review: M

Printed: 08/25/2015 15:02:12
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Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F026.D			**Vial:**	22
Acqu Date:	08/20/2015 20:31	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-2 -- K1508684-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508035	**Prep Lot:**	KWG1507505	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1457806	**Prep Date:**	08/13/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082015.B\0820F022.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	12781186m	4735571	72.20	60.21				72	OK
						%Recovery =	72	60	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.63	0.00	11797322	5833757	74.60	70.84				75	OK
						%Recovery =	75	71	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	678.11	516.41 CCV	155	118	**118**
Aroclor 1016 {1}	4.23	0.00	4.62	0.00	2867218m	993290	798.90	540.39	183	124	
Aroclor 1016 {2}	4.74	0.00	4.95	0.00	1882614m	1293587	628.36	531.34	144	122	
Aroclor 1016 {3}	4.93	0.00	5.59	0.00	6820718m	1505160	689.58	501.85	158	115	
Aroclor 1016 {4}	5.21	0.00	5.92	0.00	3150380m	1058861	634.99	482.39	146	111	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	3306348m	1134217	638.73	526.08	146	121	
Aroclor 1221					0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1232					0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1242					0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	2.5U	2.5U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F026.D			**Vial:**	22
Acqu Date:	08/20/2015 20:31	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-2 -- K1508684-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1248			0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1254			0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclors, Total			12271504	4757211	1,405	1,245	322J	285J	**322J**
Aroclor 1260			0	0	726.75	728.18	167	167	**167**
Aroclor 1260 {1}	7.08	7.84	5065214	1373481	514.20	622.64	118	143	
Aroclor 1260 {2}	8.09 -0.01	9.27 -0.01	6418202	2881201	791.02	762.25	181	175	
Aroclor 1260 {3}	8.65	9.72 0.00	6433233	2608314	781.59	722.76	179	166	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	14135204	6723733	751.92	778.71	172	178	
Aroclor 1260 {5}	9.89 0.00	11.03 0.00	11278392	4214215	795.00	754.52	182	173	
Aroclor 1262			0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1268			0	0	0.0000	0.0000	2.5U	2.5U	2.5U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.5U	2.5U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.5U	2.5U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.028 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	43.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F026.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F026.D
Inj Date : 20-AUG-2015 20:31
Sample Info: K1508684-001 DMS
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	12781186	4735571	72.2	60.2		100.00(M)
Aroclor 1016	4.234	4.618	2867218	993290	799	540	80.00- 120.00	100.00(MH)
	4.741	4.951	1882614	1293587	628	531	64.65- 96.97	65.66(MH)
	4.934	5.588	6820718	1505160	690	502	205.86- 308.80	237.89(MH)
	5.208	5.921	3150380	1058861	635	482	100.27- 150.40	109.88(MH)
	5.501	6.118	3306348	1134217	639	526	103.66- 155.49	115.32(MH)
		Average of Peak Amounts =			678	516		
Aroclor 1260	7.078	7.835	5065214	1373481	514	623	80.00- 120.00	100.00(H)
	8.091	9.268	6418202	2881201	791	762	70.84- 106.26	126.71(H)
	8.648	9.718	6433233	2608314	782	723	70.88- 106.32	127.01(H)
	9.108	10.395	14135204	6723733	752	779	164.25- 246.38	279.06(H)
	9.894	11.031	11278392	4214215	795	755	128.46- 192.69	222.66(H)
		Average of Peak Amounts =			727	728		
Decachlorobiphenyl	12.264	13.625	11797322	5833757	74.6	70.8		100.00
Aroclors, Total	0.000	0.000	12271504	4757211	1400	1240		0.00

QC Flag Legend

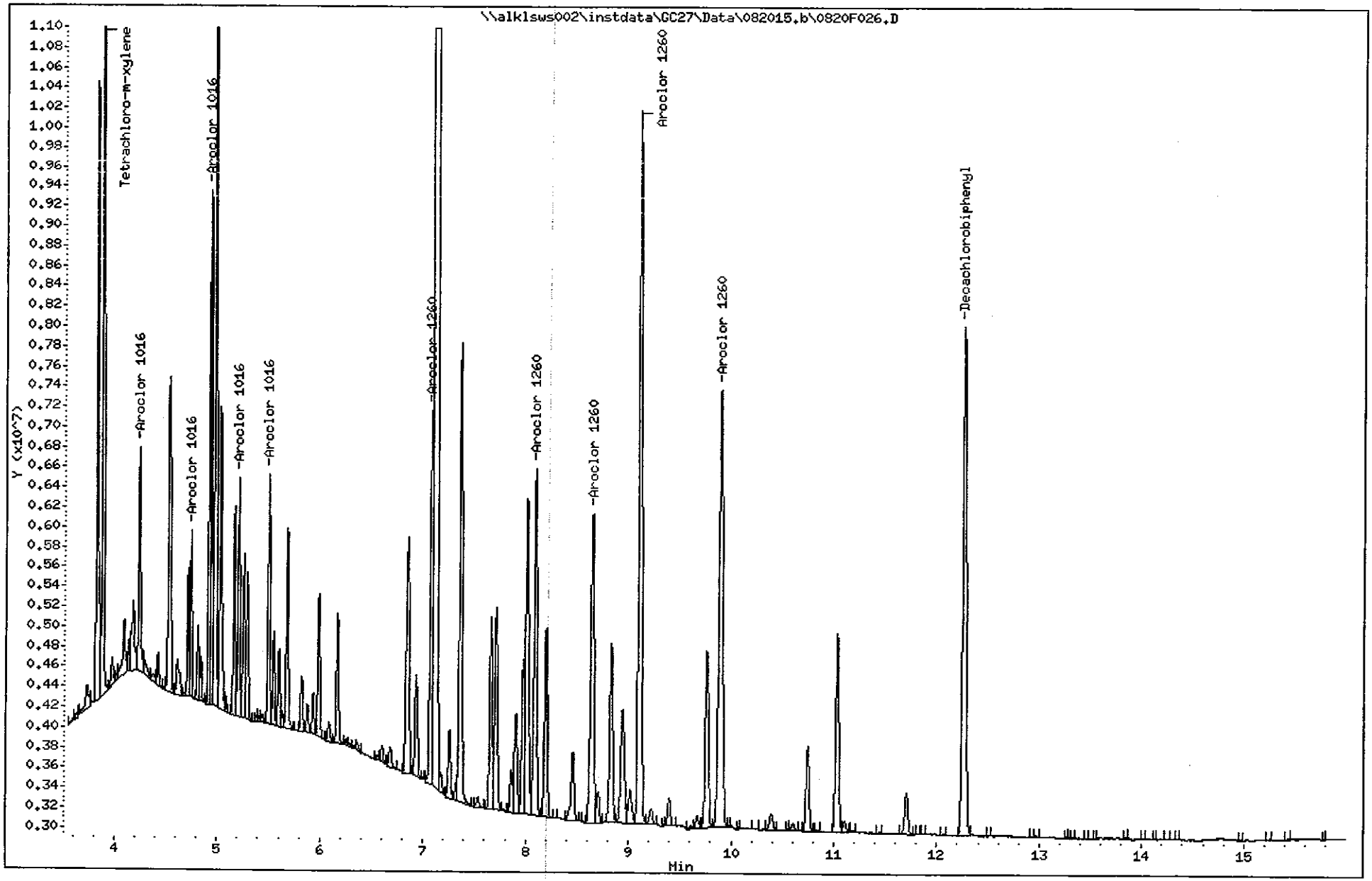
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F026.D
Date : 20-AUG-2015 20:31
Client ID:
Sample Info: K1508684-001 DMS

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

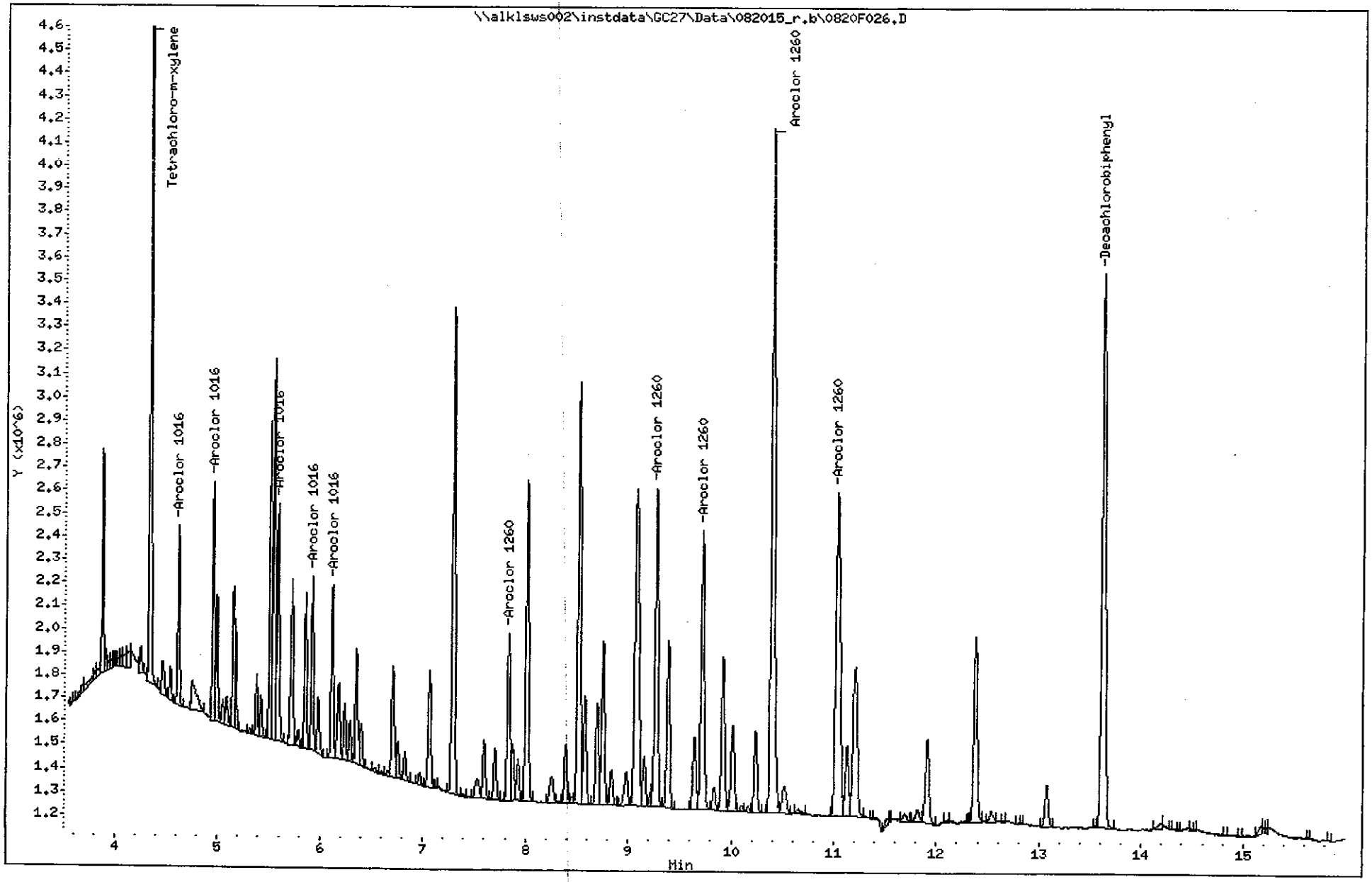


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F026.D
Date : 20-AUG-2015 20:31
Client ID:
Sample Info: K1508684-001 DMS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

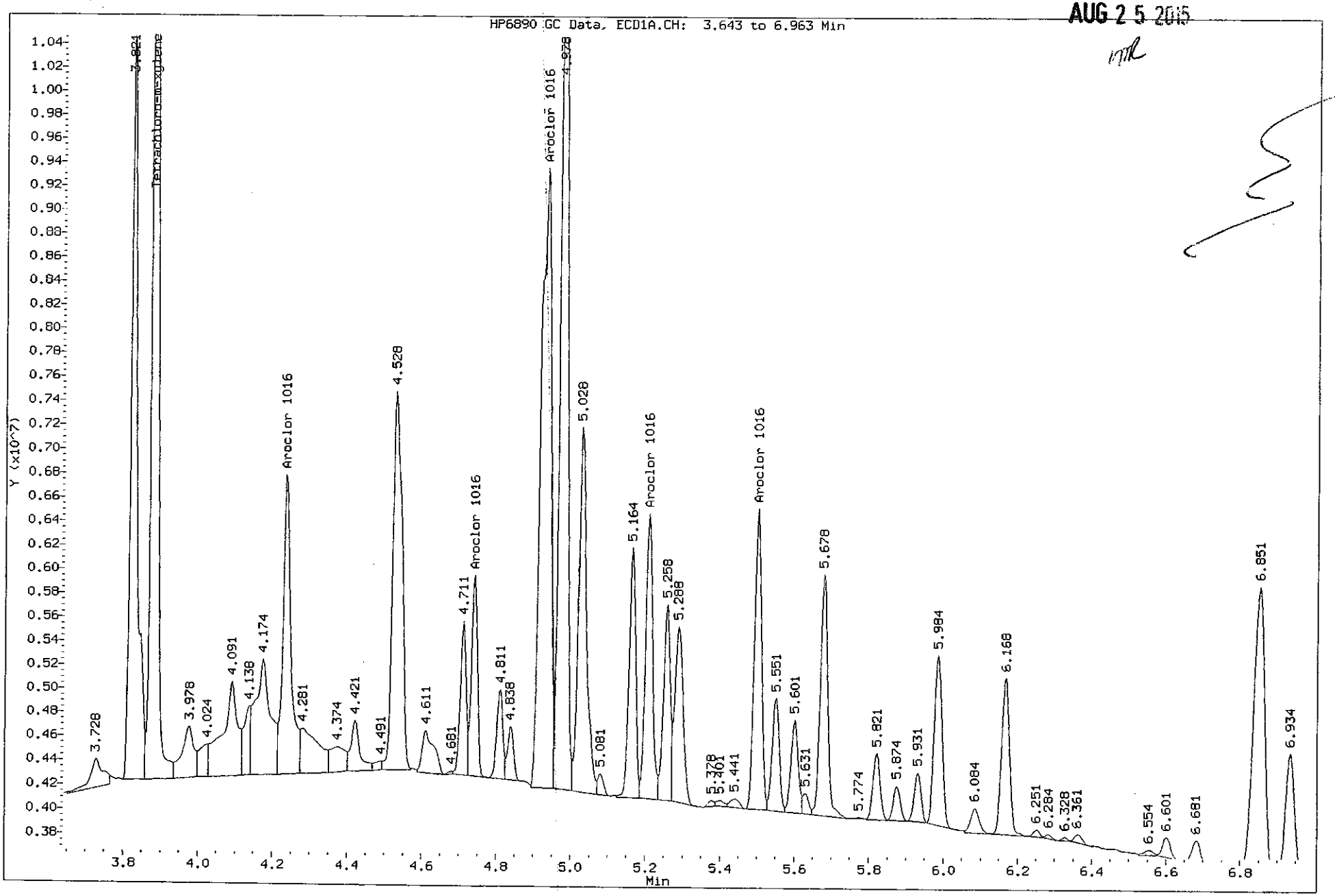
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F026.D
Injection Date: 20-AUG-2015 20:31
Instrument: GC27.i
Client Sample ID:

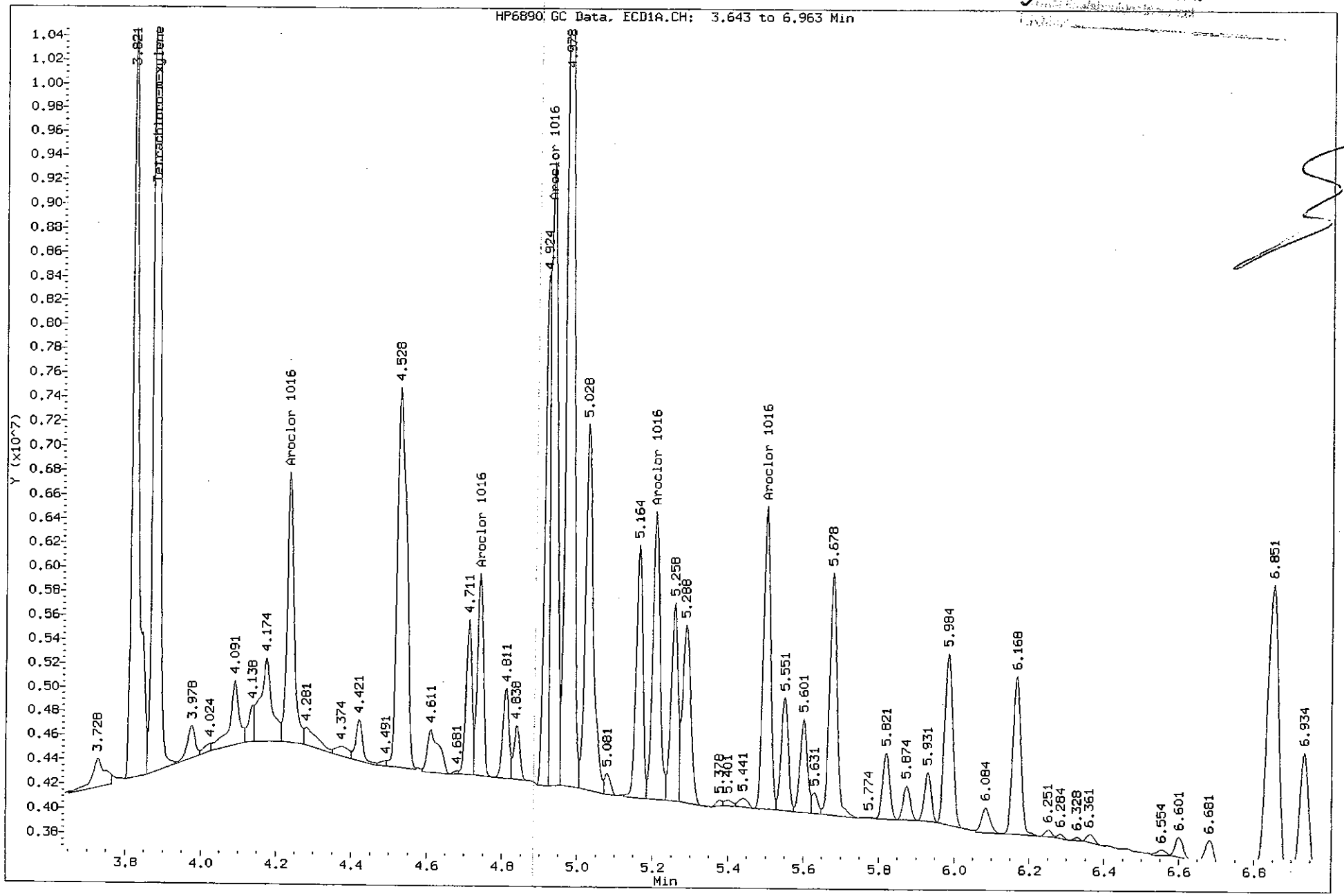
Before

AUG 2 5 2015



After
Initials

Data File: \\alklsws002\instdata\GC27\Data\OB2015.b\0820F026.D
Injection Date: 20-AUG-2015 20:31
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F022.D
Lab ID: K1508582-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 21:04
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV Dev'
Surrogates	Decachlorobiphenyl	310	43	148	[illegible] NARR
Above Highest ICAL Level	Aroclor 1016 {4}	5485.42	NA	5000	NARR
	Aroclor 1016 {5}	5357.41	NA	5000	
	Aroclor 1232 {4}	3949.09	NA	2000	
	Aroclor 1242 {4}	6595.94	NA	5000	
	Aroclor 1242 {5}	9189.80	NA	5000	

Primary Review: [illegible] 08/27/15

Secondary Review: [illegible]

Printed: 08/27/2015 15:47:18
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F022.D
Lab ID: K1508582-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/26/2015 21:04
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICAL
	Aroclor 1260	22.7	NA	20	ICAL Dual
Surrogates	Decachlorobiphenyl	154	43	148	~~RO~~ NARR
Above Highest ICAL Level	Aroclor 1016 {4}	4059.00	NA	2000	NARR
	Aroclor 1016 {5}	4975.99	NA	2000	
	Aroclor 1232 {5}	10800.59	NA	5000	
	Aroclor 1242 {4}	5560.26	NA	5000	
	Aroclor 1242 {5}	7323.15	NA	5000	
	Aroclor 1248	2513.11	NA	2000	
	Aroclor 1248 {3}	2995.86	NA	2000	
	Aroclor 1248 {4}	3508.04	NA	2000	
	Aroclor 1248 {5}	4289.97	NA	2000	

Primary Review: mr 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:22
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D			**Vial:**	21
Acqu Date:	08/26/2015 21:04	**Quant Date:**	08/28/2015 11:42	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/05/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	K1508582
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458715	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27 0.00	13.63 0.00	9078467m	1878226m	57.41	22.81			114 OK
			%Recovery =		287 *	114 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D			**Vial:**	21
Acqu Date:	08/26/2015 21:04	**Quant Date:**	08/28/2015 11:42	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.94	4.95	18022062	971235	3,846	779.50	2700D	540D	RPD
Aroclor 1248			0	0	3,530	2,069	2400D	1400D	**1400**PED
Aroclor 1248 {2}	5.29	5.51	14358518	2558871	3,293	992.19	2300D	690D	RPD
Aroclor 1248 {3}	5.68	5.92	23851032	8909576	3,712	2,996	2600D	2100ED	
Aroclor 1248 {4}	5.88	6.36	15589479	8415708	3,175	3,508	2200D	2400ED	
Aroclor 1248 {5}	6.29	7.06	16777432	0	3,623	0.0000	2500D	11U	
Aroclor 1254 {1}	6.25	6.72	11186925	12557389	2,875	3,417	2000D	2400D	
Aroclor 1254			0	0	2,698	3,036	1900D	2100D	**1900D**
Aroclor 1254 {2}	6.68	7.06	19136865	0	2,637	0.0000	1800D	11U	
Aroclor 1254 {3}	6.84	7.16	36480772	5181173	2,493	2,675	1700D	1900D	
Aroclor 1254 {4}	7.18	8.01	21697026	6043319	2,268	2,668	1600D	1800D	
Aroclor 1254 {5}	7.78	8.77	20369844	10618417	3,217	3,384	2200D	2300D	
Aroclor 1260 {1}	7.08 0.00	7.83 -0.01	16314879m	2641147m	1,656	1,197	1100D	830D	
Aroclor 1260			0	0	1,531	1,618	1100D	1100D	**1100D**
Aroclor 1260 {2}	8.10 0.00	9.27 0.00	12903401m	5811739m	1,590	1,538	1100D	1100D	
Aroclor 1260 {3}	8.65 0.00	9.72 0.00	10773222m	4960808m	1,309	1,375	910D	950D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	26232398m	17599824m	1,395	2,038	970D	1400D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	24181155m	10846453m	1,704	1,942	1200D	1300D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0864 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Report Date: 28-Aug-2015 11:42

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Inj Date : 26-AUG-2015 21:04
Sample Info: K1508582-001 5X
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	3970447	1392200	22.4	17.7		100.00
Aroclor 1248	4.938	4.951	18022062	971235	3850	779	80.00- 120.00	100.00
	5.291	5.511	14358518	2558871	3290	992	17.18- 25.77	79.67
	5.681	5.921	23851032	8909576	3710	3000	19.47- 29.21	132.34
	5.875	6.355	15589479	8415708	3170	3510	3.05- 4.58	86.50
	6.285	7.055	16777432		3620		0.69- 1.04	93.09
		Average of Peak Amounts =			3530	2070		
Aroclor 1254	6.248	6.715	11186925	12557389	2880	3420	80.00- 120.00	100.00
	6.681	7.055	19136865		2640		1017.66-1526.49	171.06
	6.838	7.158	36480772	5181173	2490	2670	9646.23-14469.35	326.10
	7.175	8.011	21697026	6043319	2270	2670	1126.72-1690.08	193.95
	7.781	8.765	20369844	10618417	3220	3380	281.12- 421.67	182.09
		Average of Peak Amounts =			2700	3040		
Aroclor 1260	7.078	7.831	16314879	2641147	1660	1200	80.00- 120.00	100.00(M)
	8.095	9.271	12903401	5811739	1590	1540	70.14- 105.21	79.09(M)
	8.648	9.718	10773222	4960808	1310	1370	70.66- 105.99	66.03(M)
	9.111	10.398	26232398	17599824	1400	2040	162.95- 244.43	160.79(M)
	9.898	11.025	24181155	10846453	1700	1940	126.35- 189.53	148.22(M)
		Average of Peak Amounts =			1530	1620		
Decachlorobiphenyl	12.265	13.625	9078467	1878226	57.4	22.8		100.00(M)
Aroclors, Total	0.000	0.000	57575002	22185916	7760	6720		0.00

QC Flag Legend

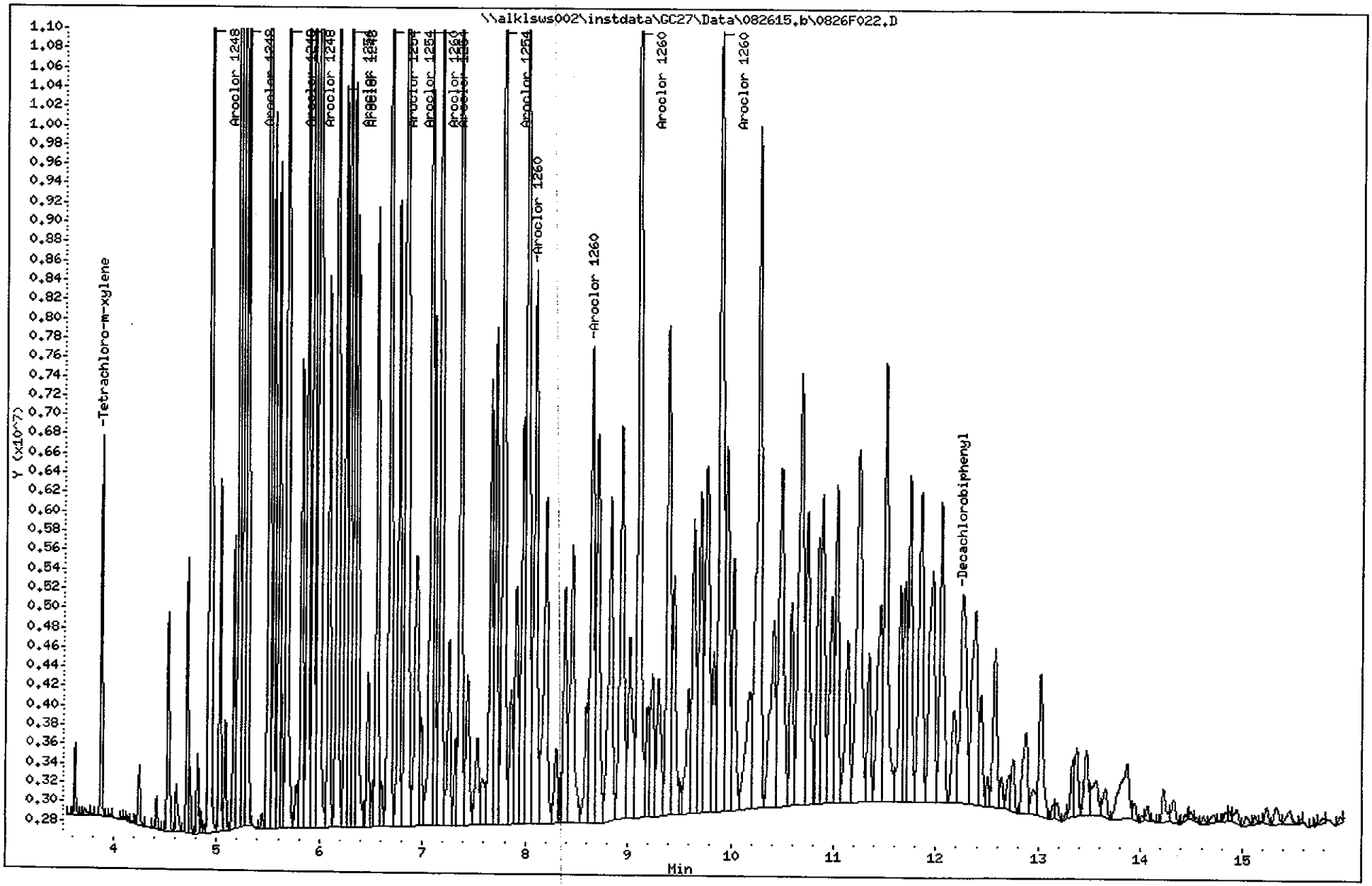
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Date : 26-AUG-2015 21:04
Client ID:
Sample Info: K1508582-001 5X

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-35MS



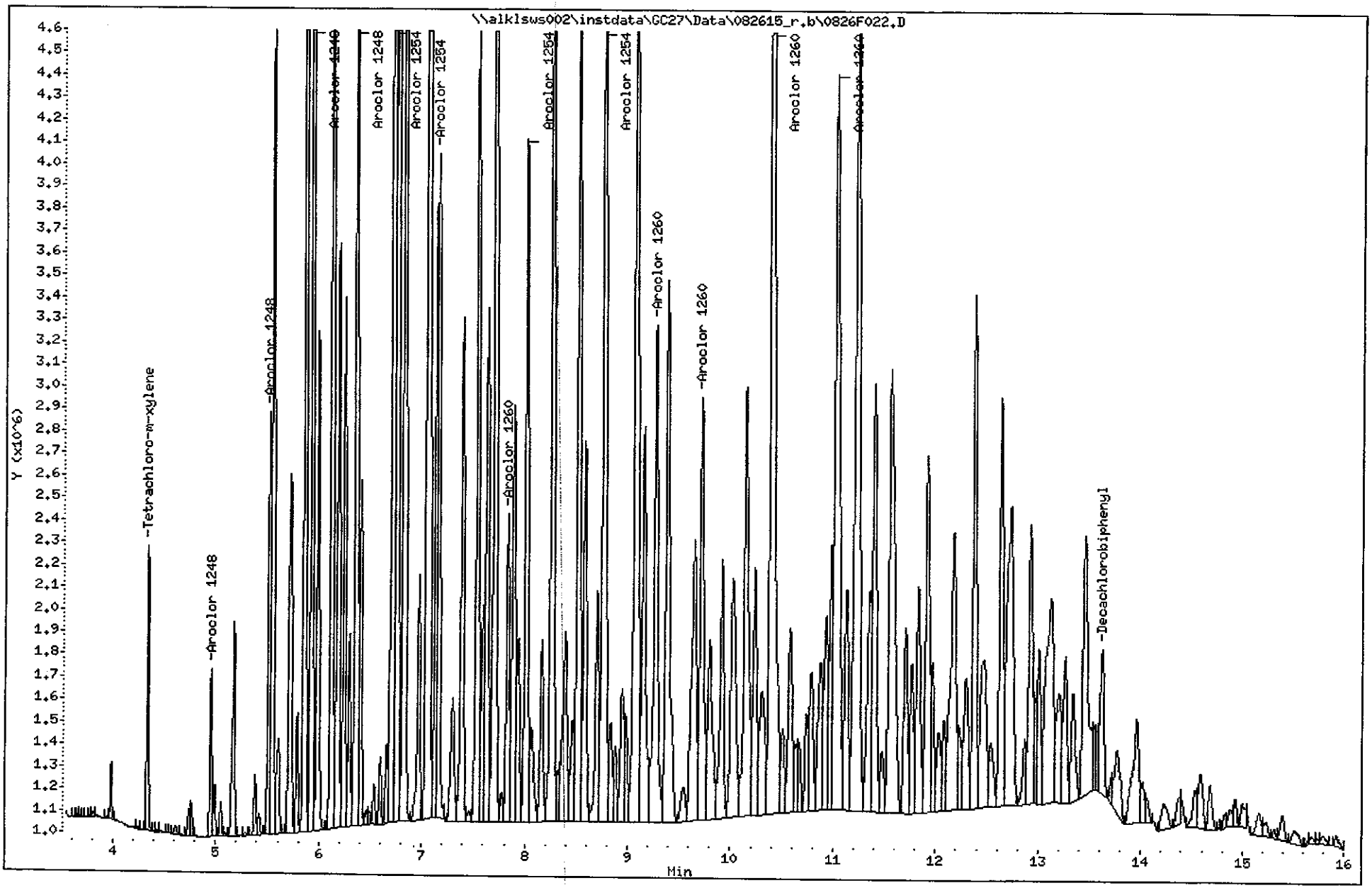
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Date : 26-AUG-2015 21:04
Client ID:
Sample Info: K1508582-001 5X

Instrument: GC27.i

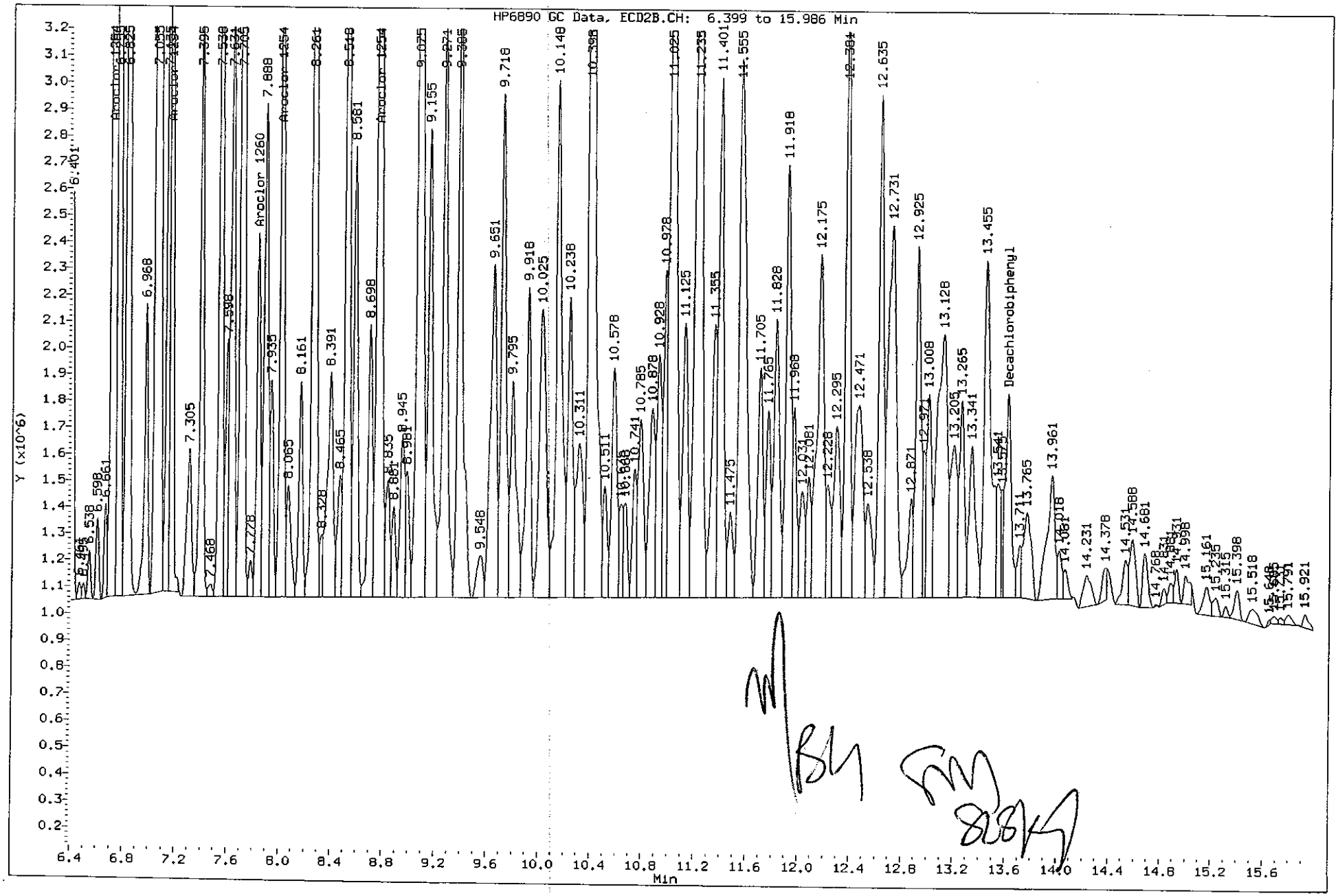
Operator: MR

Column phase: DB-XLB

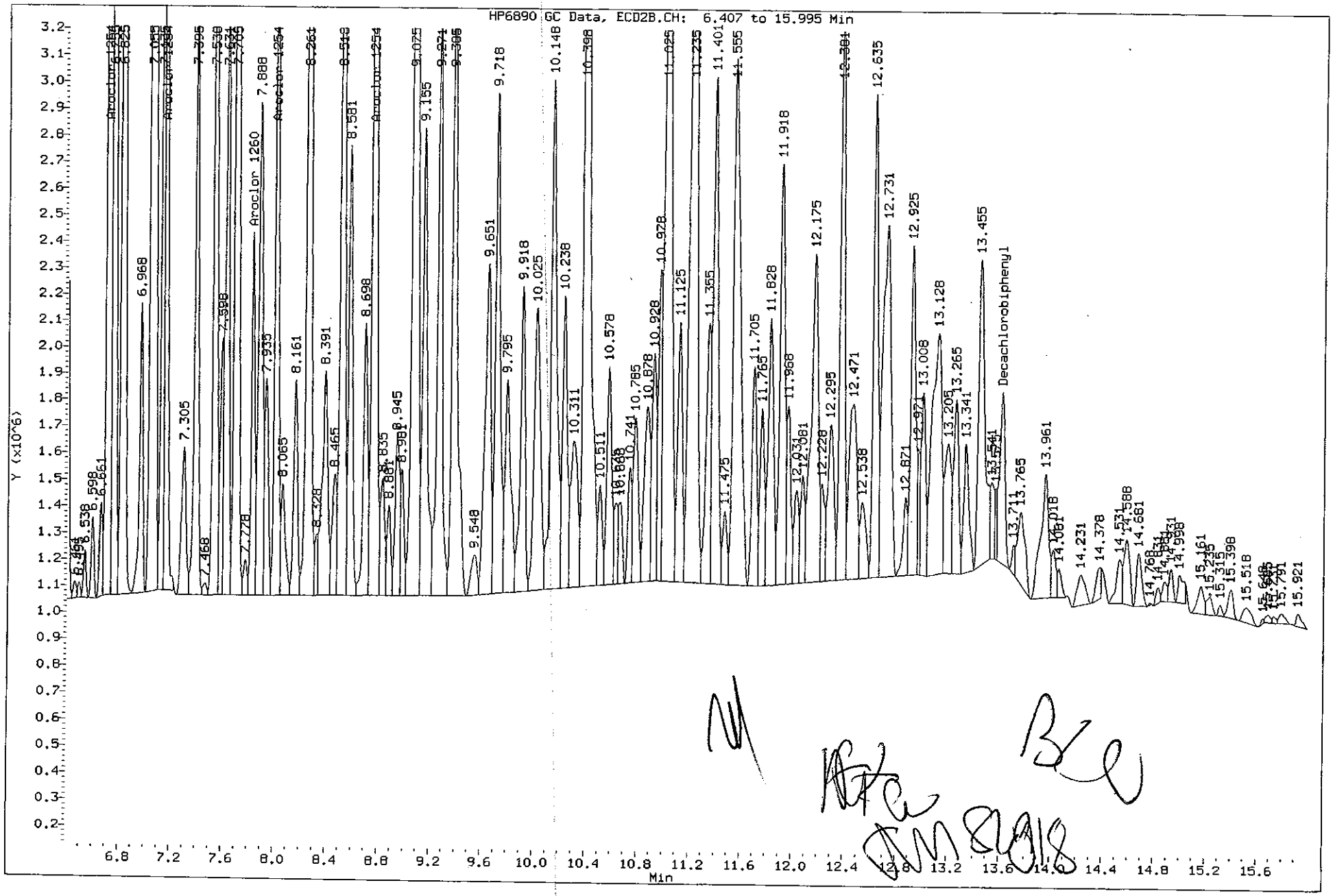
Column diameter: 0.32



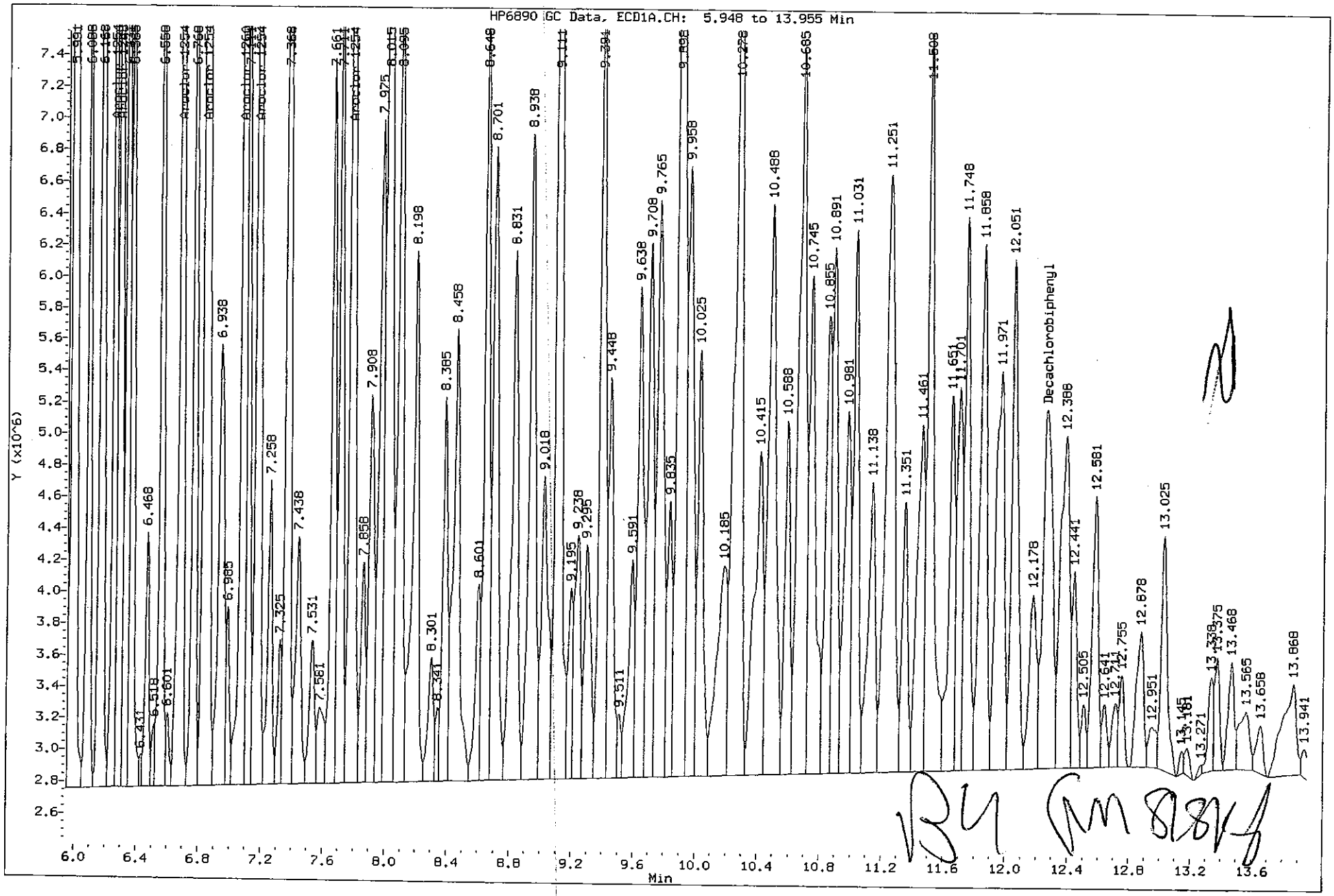
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



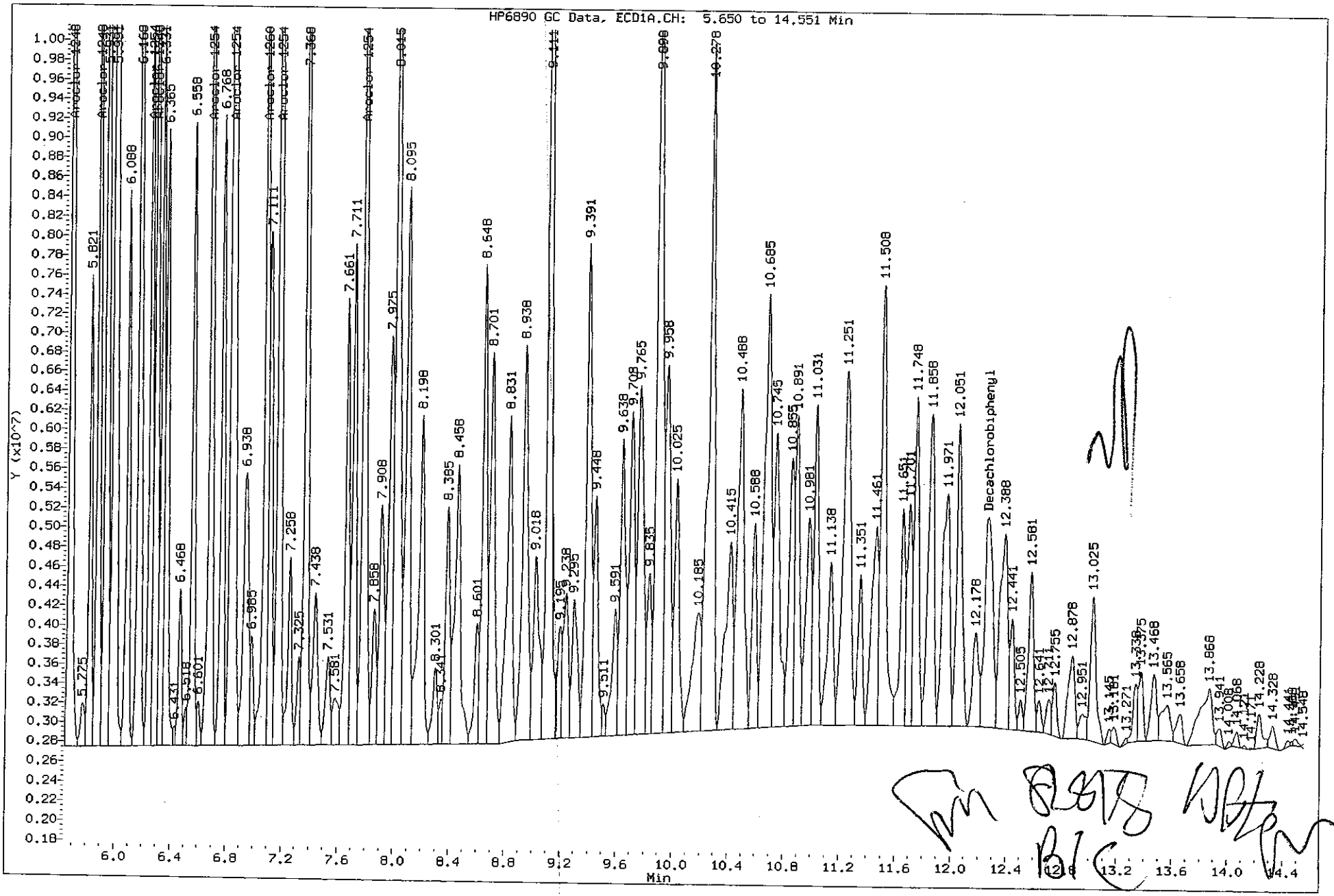
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F022.D
Injection Date: 26-AUG-2015 21:04
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F006.D
Lab ID: K1508582-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 08/28/2015 14:37
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK
Surrogates	Decachlorobiphenyl	264	43	148	OK

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:00
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F006.D	**Date Acquired:**	08/28/2015 14:37
Lab ID:	K1508582-001	**Date Quantitated:**	08/29/2015 18:33
RunType:	SMPL	**Batch ID:**	KWG1508233
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D			**Vial:**	4
Acqu Date:	08/28/2015 14:37	**Quant Date:**	08/29/2015 18:33	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/05/2015	**Receive Date:**	08/06/2015

Analysis Lot:	KWG1508233	**Prep Lot:**	KWG1507646	**Report Group:**	K1508582
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458715	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27 -0.01	13.63 -0.02	2083675	518700	13.18	6.30			NR
				%Recovery =	264 *	126 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1221 {2}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	42U	42U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242			0	0	0.0000	0.0000	42U	42U	NR
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	42U	42U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D			**Vial:**	4
Acqu Date:	08/28/2015 14:37	**Quant Date:**	08/29/2015 18:33	**Dilution:**	20.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1508582-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	42U	42U	
Aroclor 1248 {1}	4.94	4.96	3911943m	260666	834.92	209.21	2300D	580D	RPD
Aroclor 1248			0	0	994.43	744.33	2800D	2100D	2100D
Aroclor 1248 {2}	5.30	5.52	4297151m	768239	985.39	297.88	2700D	830D	RPD
Aroclor 1248 {3}	5.69	5.93	7064292m	2677240	1,099	900.23	3000D	2500D	
Aroclor 1248 {4}	5.88	6.36	4721119m	2441743	961.47	1,018	2700D	2800D	
Aroclor 1248 {5}	6.29	7.06	5051785m	5532363	1,091	1,297	3000D	3600D	
Aroclor 1254 {1}	6.26	6.72	3488896	3788872	896.79	1,031	2500D	2900D	
Aroclor 1254			0	0	809.27	910.42	2200D	2500D	NR
Aroclor 1254 {2}	6.69	7.06	5682471	5532363	782.98	954.97	2200D	2600D	
Aroclor 1254 {3}	6.84	7.17	10973045	1616691	749.80	834.58	2100D	2300D	
Aroclor 1254 {4}	7.18	8.02	6546508	1797813	684.38	793.56	1900D	2200D	
Aroclor 1254 {5}	7.79	8.78	5903650	2943054	932.40	937.91	2600D	2600D	
Aroclor 1260 {1}	7.09 -0.01	7.84 -0.01	4920590	726302	499.52	329.26	1400D	910D	
Aroclor 1260			0	0	435.09	421.02	1200D	1200D	NR
Aroclor 1260 {2}	8.10 -0.01	9.28 -0.01	3721624	1477882	458.68	390.99	1300D	1100D	
Aroclor 1260 {3}	8.66 -0.01	9.73 -0.01	3046135	1248249	370.08	345.89	1000D	960D	
Aroclor 1260 {4}	9.12 -0.01	10.41 -0.01	7271737	4741772	386.82	549.17	1100D	1500D	
Aroclor 1260 {5}	9.91 -0.02	11.04 -0.02	6530611	2735582	460.33	489.78	1300D	1400D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0864 g	**Dilution:**	20.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D
Inj Date : 28-AUG-2015 14:37
Sample Info: K1508582-001 20X
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.885	4.342	1154171	376886	6.52	4.79		100.00
Aroclor 1248	4.942	4.959	3911943	260666	835	209	80.00- 120.00	100.00(M)
	5.299	5.522	4297151	768239	985	298	17.18- 25.77	81.47(M)
	5.685	5.929	7064292	2677240	1100	900	19.47- 29.21	133.93(M)
	5.882	6.362	4721119	2441743	961	1020	3.05- 4.58	89.51(M)
	6.292	7.062	5051785	5532363	1090	1300	0.69- 1.04	95.78(M)
		Average of Peak Amounts =			994	745		
Aroclor 1254	6.255	6.722	3488896	3788872	897	1030	80.00- 120.00	100.00
	6.689	7.062	5682471	5532363	783	955	1017.66-1526.49	162.87
	6.842	7.165	10973045	1616691	750	835	9646.23-14469.35	314.51
	7.182	8.022	6546508	1797813	684	794	1126.72-1690.08	187.64
	7.792	8.775	5903650	2943054	932	938	281.12- 421.67	169.21
		Average of Peak Amounts =			809	910		
Aroclor 1260	7.085	7.842	4920590	726302	500	329	80.00- 120.00	100.00(H)
	8.102	9.279	3721624	1477882	459	391	70.49- 105.74	75.63(H)
	8.655	9.729	3046135	1248249	370	346	71.38- 107.06	61.91(H)
	9.119	10.409	7271737	4741772	387	549	164.52- 246.79	147.78(H)
	9.905	11.035	6530611	2735582	460	490	127.82- 191.73	132.72(H)
		Average of Peak Amounts =			435	421		
Decachlorobiphenyl	12.272	13.632	2083675	518700	13.2	6.30		100.00
Aroclors, Total	0.000	0.000	16626311	7657766	2240	2080		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

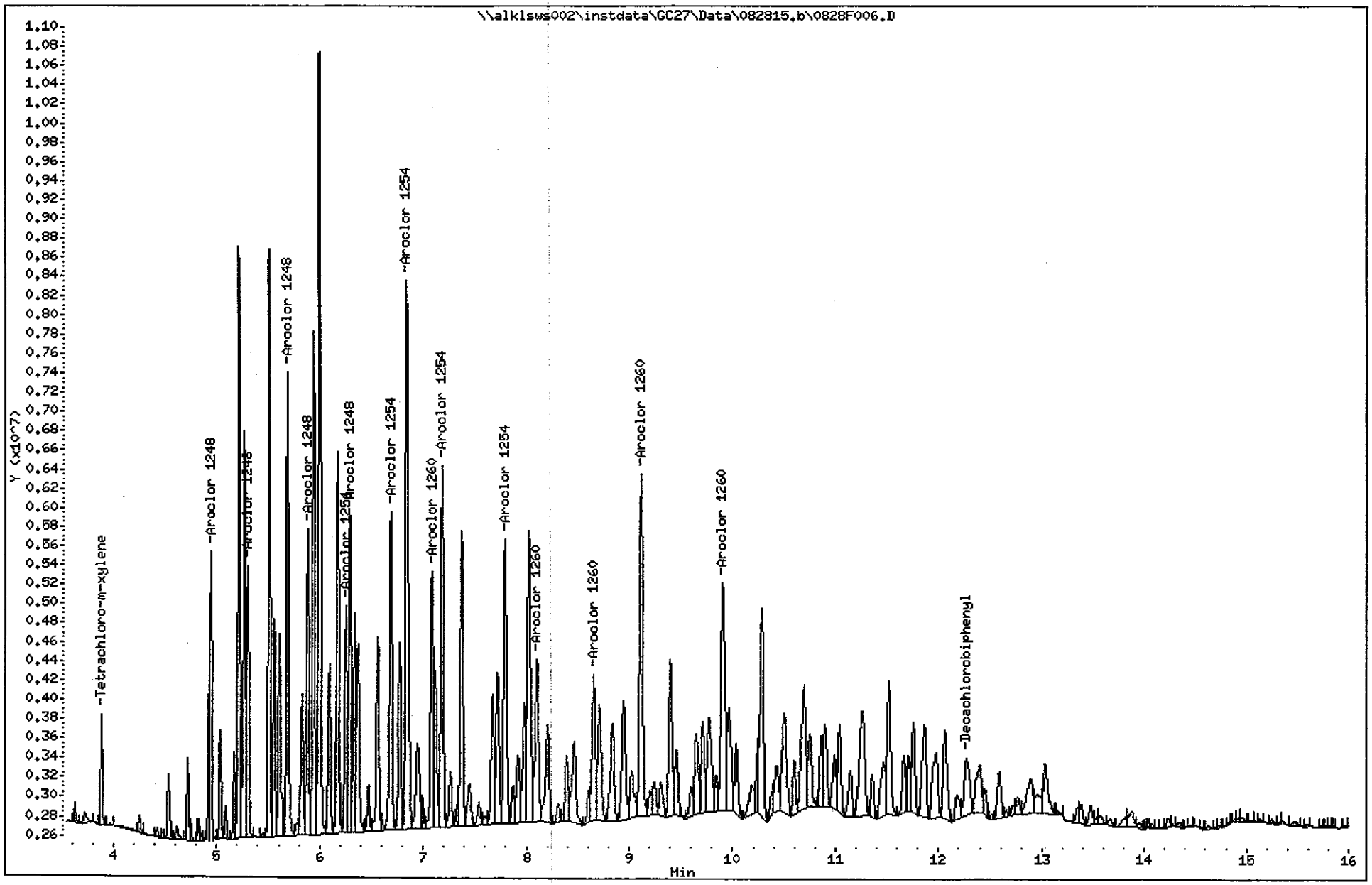
Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Date : 28-AUG-2015 14:37
Client ID:
Sample Info: K1508582-001 20X

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



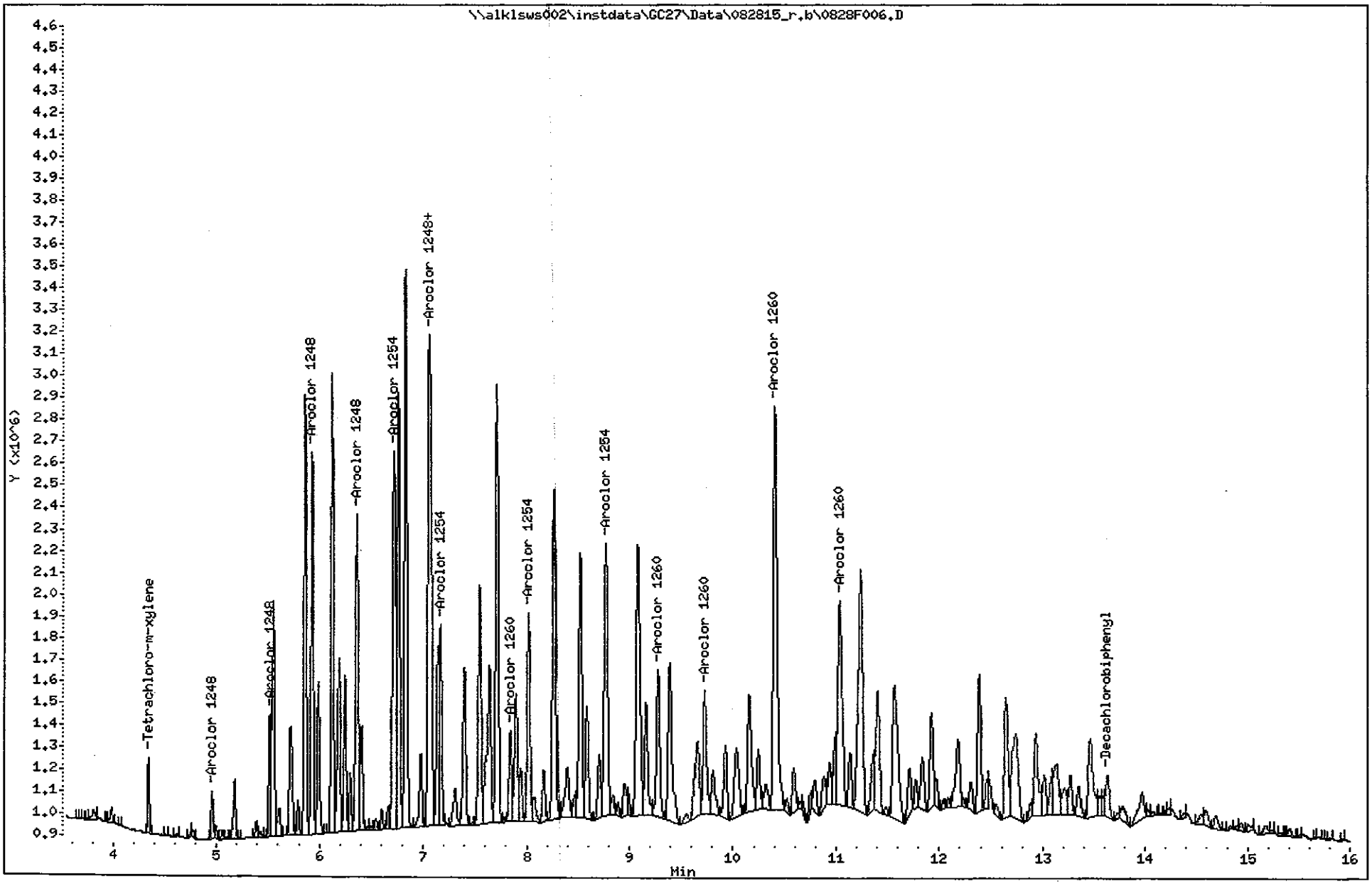
Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F006.D
Date : 28-AUG-2015 14:37
Client ID:
Sample Info: K1508582-001 20X

Instrument: GC27.i

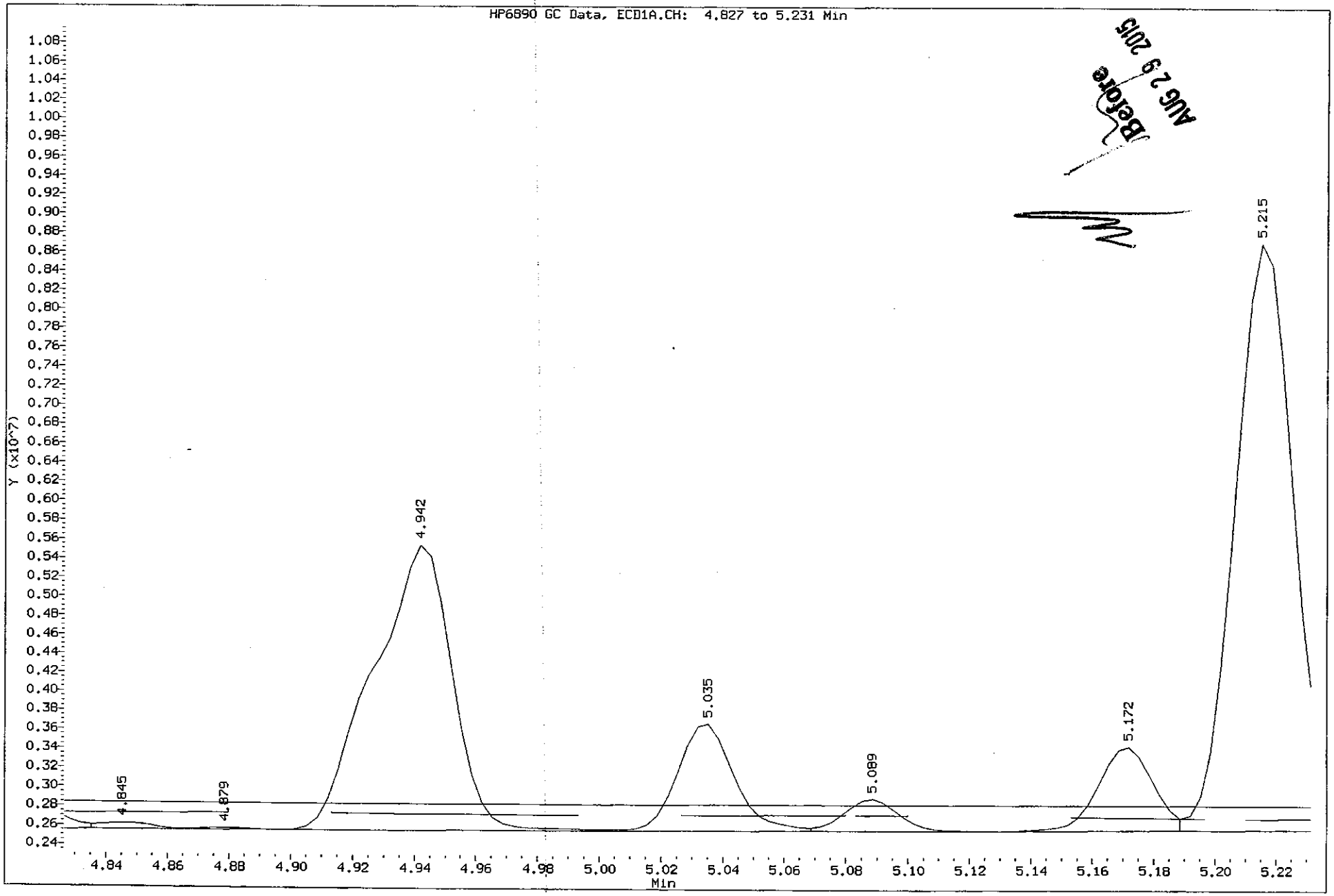
Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F006.D
Injection Date: 28-AUG-2015 14:37
Instrument: GC27.i
Client Sample ID:



Before
AUG 29 2015

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F023.D
Lab ID: KWG1507646-1 -- K1508582-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/26/2015 21:28
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK
Surrogates	Decachlorobiphenyl	248	43	148	RO
Above Highest ICAL Level	Aroclor 1232 {4}	3622.49	NA	2000	MRB
	Aroclor 1242 {4}	5713.14	NA	5000	↓
	Aroclor 1242 {5}	7940.82	NA	5000	↓

Primary Review: MB 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:26
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F023.D
Lab ID: KWG1507646-1 -- K1508582-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 08/26/2015 21:28
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OL
	Aroclor 1260	22.7	NA	20	ICV Dual
Above Highest ICAL Level	Aroclor 1016 {4}	3534.11	NA	2000	MARR
	Aroclor 1016 {5}	4285.80	NA	2000	
	Aroclor 1232 {5}	9403.89	NA	5000	
	Aroclor 1242 {5}	6246.36	NA	5000	
	Aroclor 1248	2244.11	NA	2000	
	Aroclor 1248 {3}	2608.44	NA	2000	
	Aroclor 1248 {4}	3060.99	NA	2000	
	Aroclor 1248 {5}	3726.80	NA	2000	

Primary Review: MMC 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:31
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458720	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	3777679	1304465	21.34		16.59				107	OK
						%Recovery =	107	OK	83	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	-0.01	13.62	-0.01	7853685	1726384m	49.67		20.96				105	OK
						%Recovery =	248	*	105	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	662.54	286.78	459D	199D	199PD
Aroclor 1016 {1}	4.24	+0.00	4.62	0.00	1495008m	350787m	416.56	190.84	288D	132D	
Aroclor 1016 {2}	4.74	0.00	4.95	0.00	1196111m	1022188m	399.22	419.86	276D	291D	
Aroclor 1016 {3}	4.94	0.00	5.59	0.00	11590876m	748707m	1,172	249.63	812D	173D	RPD
Aroclor 1016 {4}	5.21	0.00	5.92	+0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1221					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242					0	0	0.0000	0.0000	11U	11U	11U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclors, Total			23599269	8883345	2,273	1,910	1570JD	1320JD	**1570JD**
Aroclor 1260			0	0	1,610	1,623	1120D	1120D	**1120D**
Aroclor 1260 {1}	7.08 0.00	7.83 0.00	16897915	2751655	1,715	1,247	1190D	864D	
Aroclor 1260 {2}	8.09 -0.01	9.27 0.00	13137493	6060408	1,619	1,603	1120D	1110D	
Aroclor 1260 {3}	8.65 0.00	9.72 0.00	13023048	5083580	1,582	1,409	1100D	975D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	27183483	15418639	1,446	1,786	1000D	1240D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	23951082	11566307	1,688	2,071	1170D	1430D	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.1159 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F023.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D			**Vial:**	22
Acqu Date:	08/26/2015 21:28	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-1 -- K1508582-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Report Date: 28-Aug-2015 11:52

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Inj Date : 26-AUG-2015 21:28
Sample Info: K1508582-001 5X MS
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	3777679	1304465	21.3	16.6		100.00
Aroclor 1016	4.241	4.618	1495008	350787	417	191	80.00- 120.00	100.00(M)
	4.741	4.954	1196111	1022188	399	420	67.58- 101.37	80.01(M)
	4.937	5.591	11590876	748707	1170	250	323.28- 484.93	775.31(M)
	5.211	5.924					94.62- 141.94	0.00(M)
	5.501	6.118					92.33- 138.50	0.00(M)
		Average of Peak Amounts =			662	287		
Aroclor 1260	7.077	7.834	16897915	2751655	1720	1250	80.00- 120.00	100.00
	8.094	9.271	13137493	6060408	1620	1600	70.14- 105.21	77.75
	8.647	9.718	13023048	5083580	1580	1410	70.66- 105.99	77.07
	9.111	10.398	27183483	15418639	1450	1790	162.95- 244.43	160.87
	9.897	11.028	23951082	11566307	1690	2070	126.35- 189.53	141.74
		Average of Peak Amounts =			1610	1620		
Decachlorobiphenyl	12.261	13.624	7853685	1726384	49.7	21.0		100.00
Aroclors, Total	0.000	0.000	23599269	8883345	2270	1910		100.00

QC Flag Legend

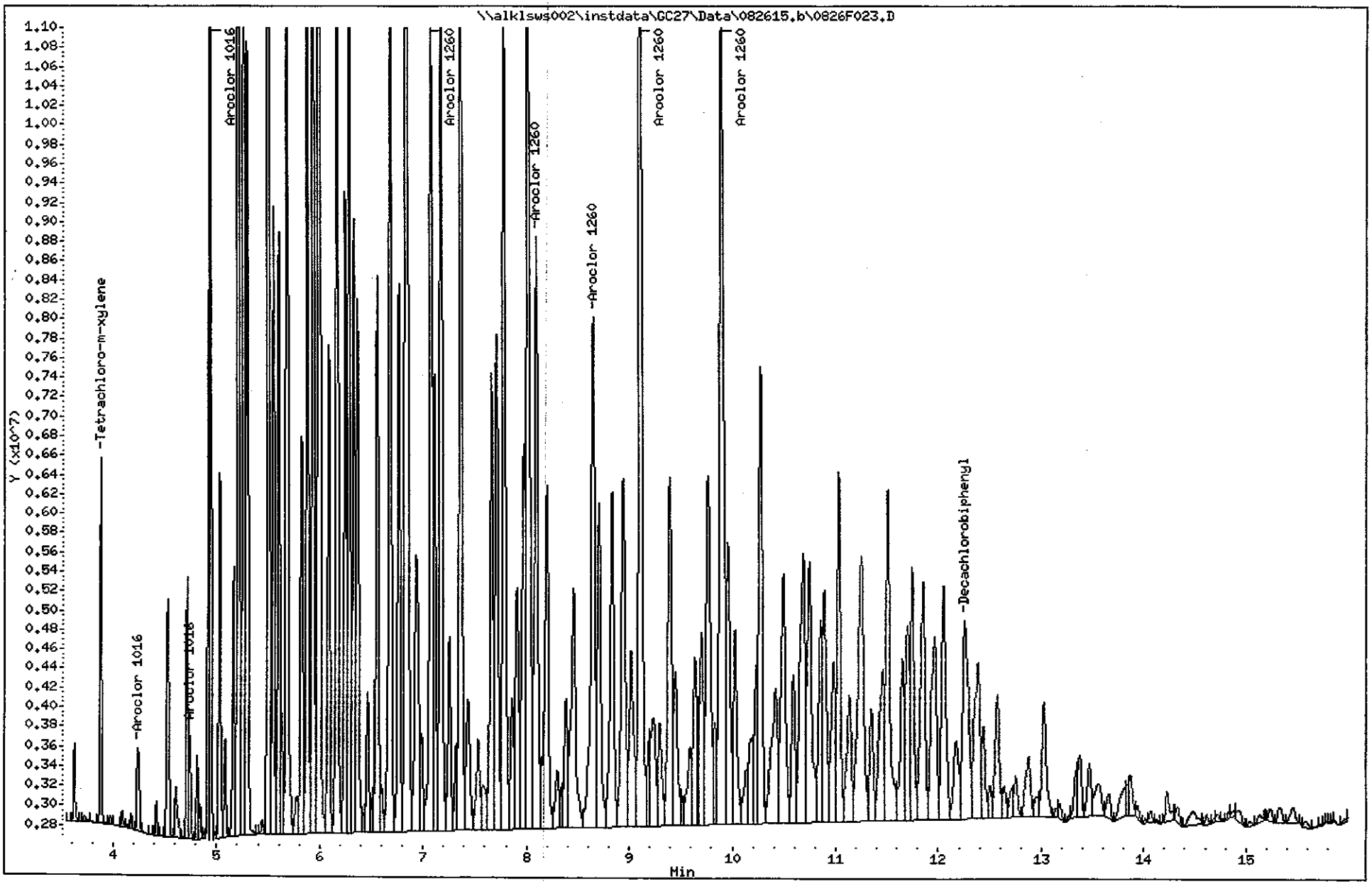
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Date : 26-AUG-2015 21:28
Client ID:
Sample Info: K1508582-001 5X MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-35MS



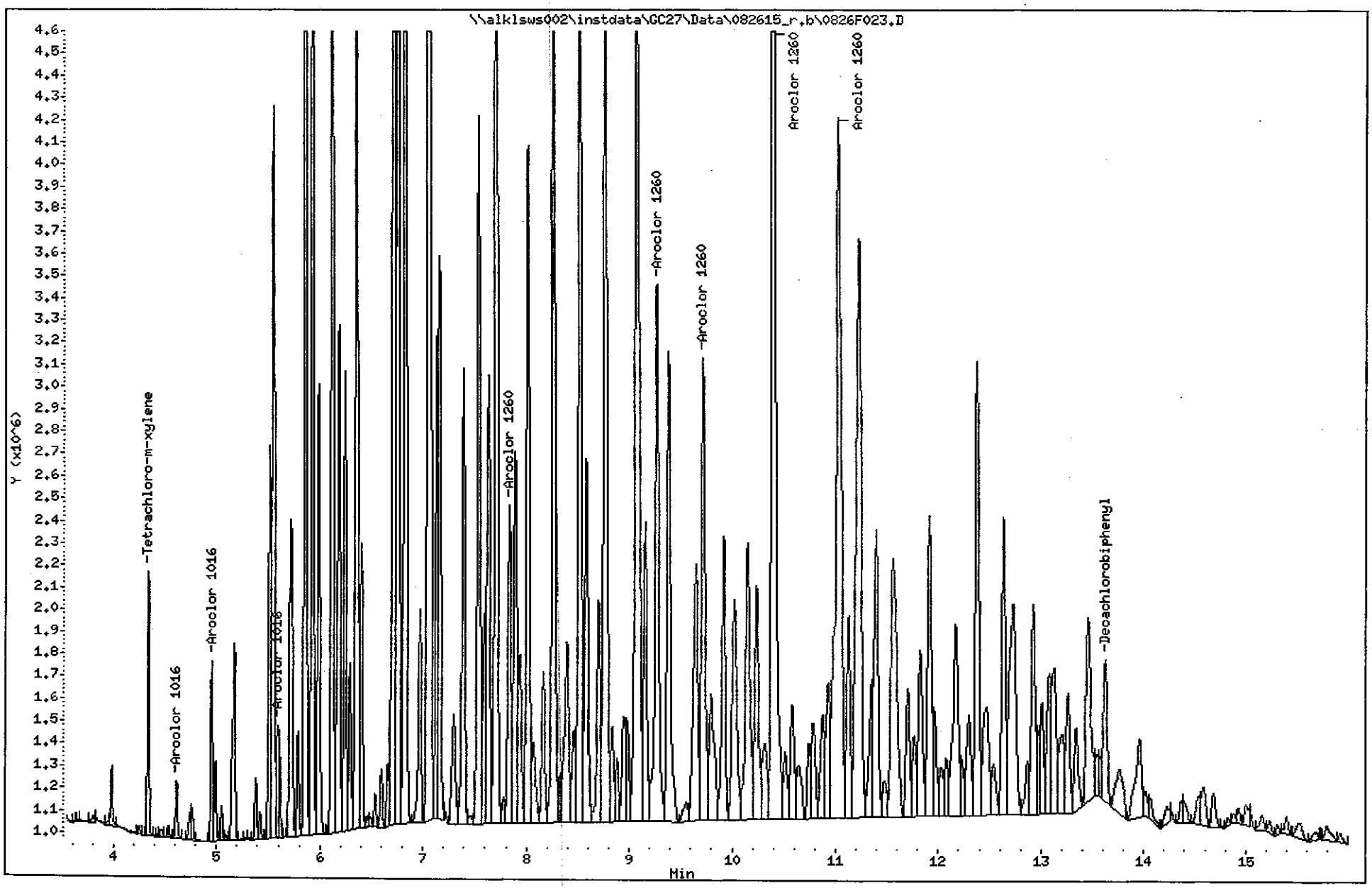
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Date : 26-AUG-2015 21:28
Client ID:
Sample Info: K1508582-001 5X MS

Instrument: GC27.i

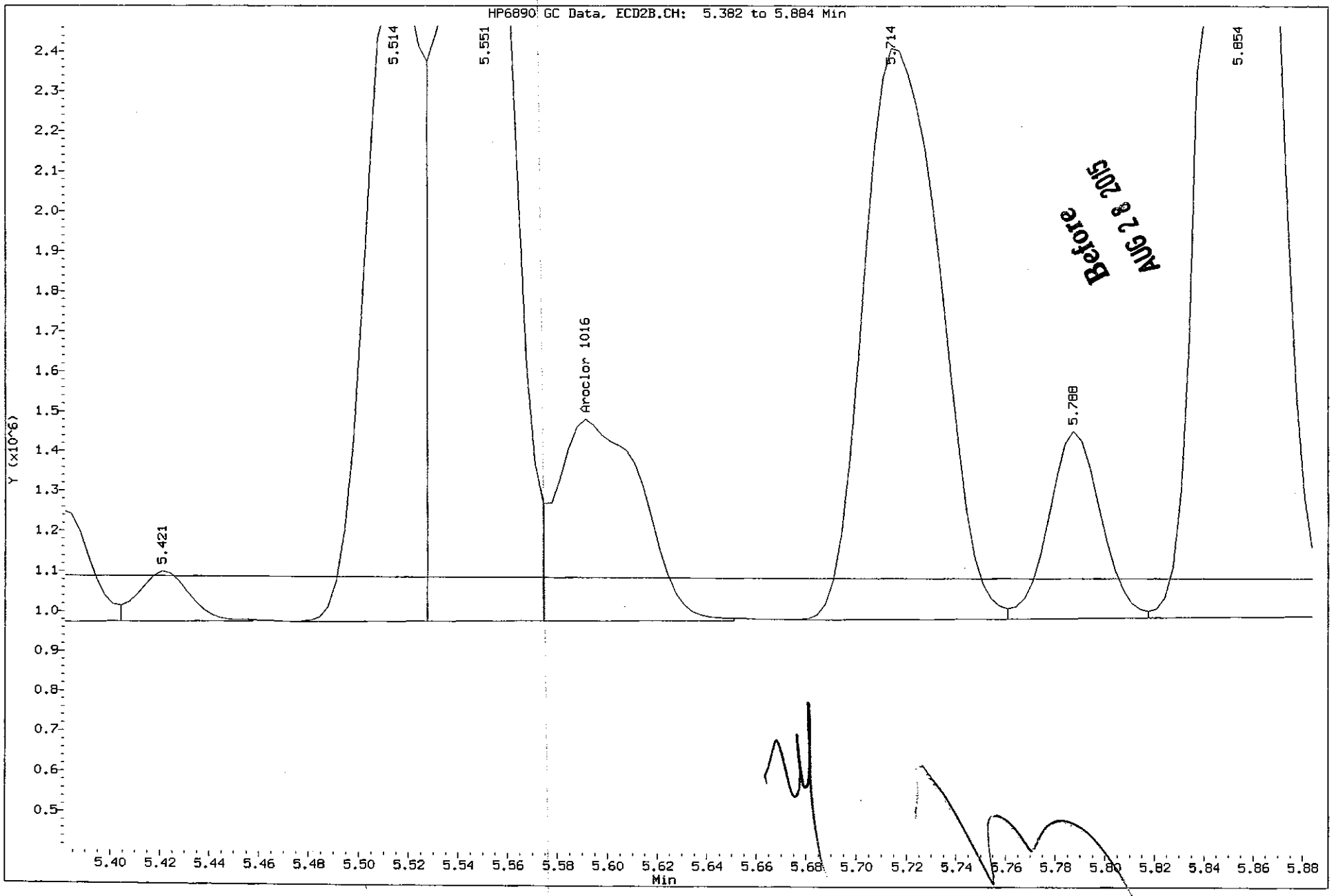
Operator: MR

Column phase: DB-XLB

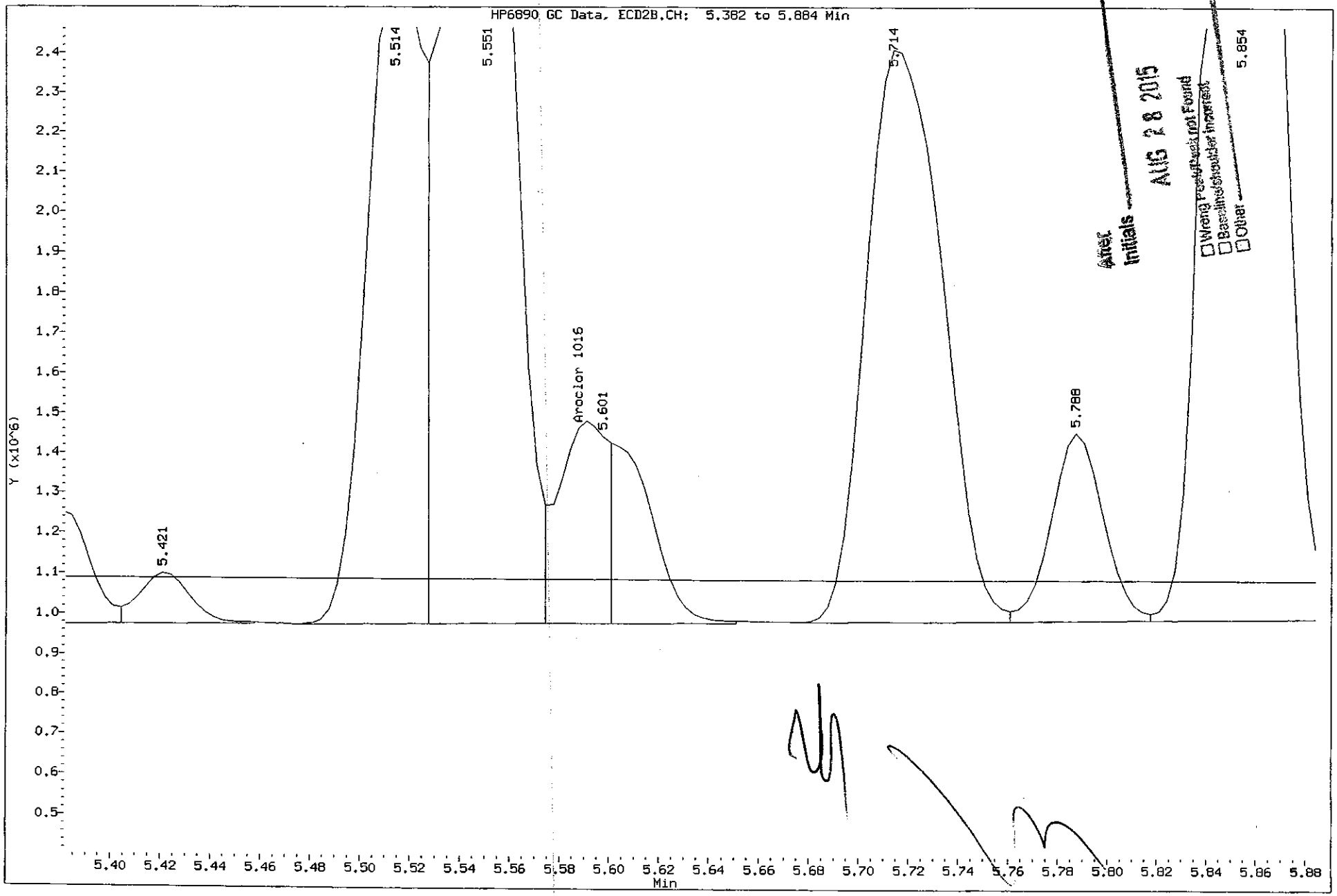
Column diameter: 0.32



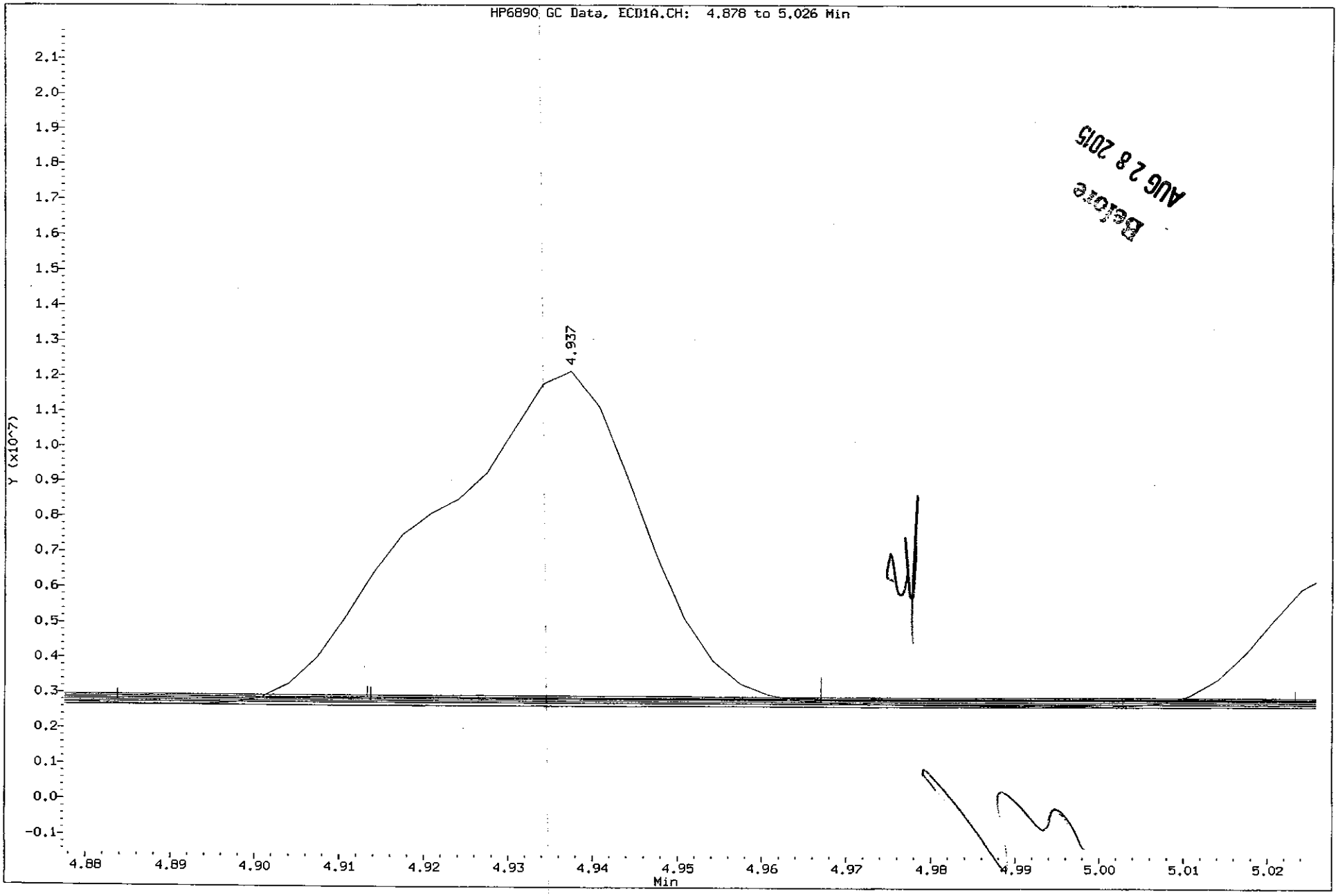
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:

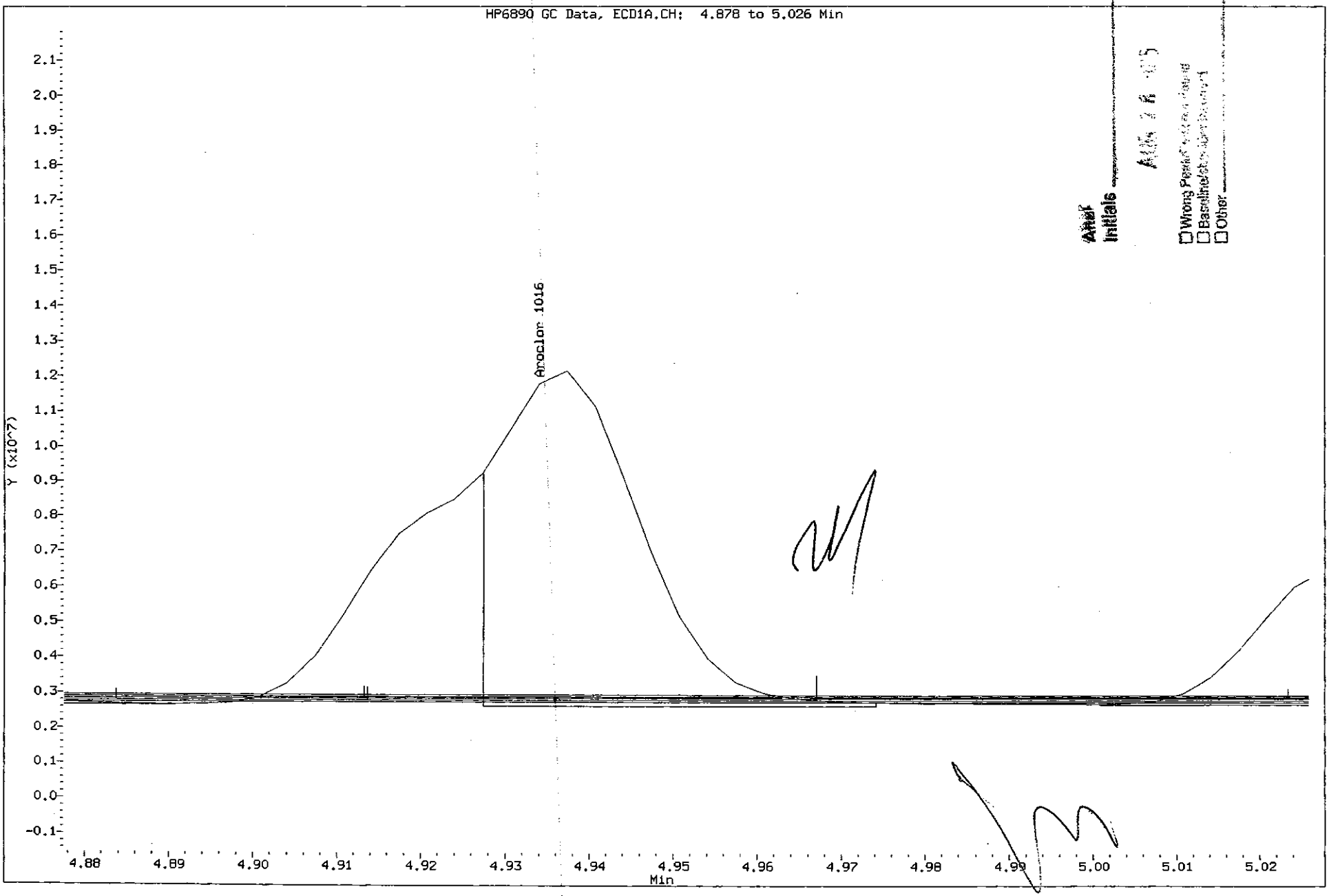


Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:

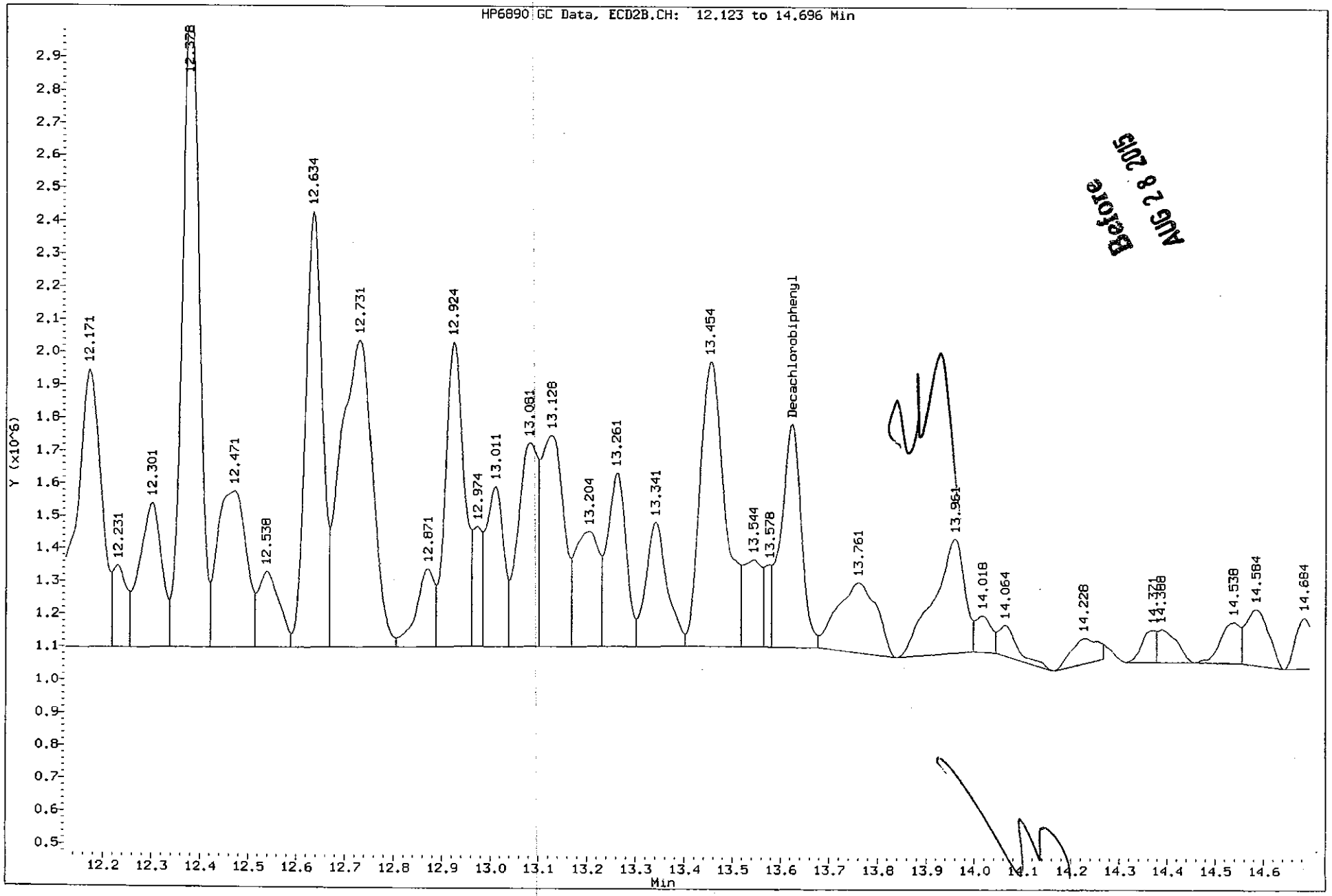


Before
AUG 28 2015

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F023.D
Injection Date: 26-AUG-2015 21:28
Instrument: GC27.i
Client Sample ID:



Before
AUG 28 2015

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F024.D
Lab ID: KWG1507646-2 -- K1508582-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/26/2015 21:51
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK
Surrogates	Decachlorobiphenyl	198	43	148	RO
Above Highest ICAL Level	Aroclor 1232 {4}	2875.17	NA	2000	MRL
	Aroclor 1242 {5}	6336.92	NA	5000	↓

Primary Review: MR 08/29/15

Secondary Review: [signature]

Printed: 08/27/2015 15:47:35
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F024.D
Lab ID: KWG1507646-2 -- K1508582-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 08/26/2015 21:51
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual
Above Highest ICAL Level	Aroclor 1016 {4}	3412.71	NA	2000	NARR
	Aroclor 1016 {5}	4138.34	NA	2000	
	Aroclor 1232 {5}	9080.86	NA	5000	
	Aroclor 1242 {5}	5929.60	NA	5000	
	Aroclor 1248	2147.13	NA	2000	
	Aroclor 1248 {3}	2518.84	NA	2000	
	Aroclor 1248 {4}	2932.88	NA	2000	
	Aroclor 1248 {5}	3535.13	NA	2000	

Primary Review: 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508158	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458721	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	3196573	1239494	18.06		15.76				90	OK
						%Recovery =	90	OK	79	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.62	-0.01	6260112	1342110	39.59		16.30				81	OK
						%Recovery =	198	*	81	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	519.94	263.41	361D	183D	183PD
Aroclor 1016 {1}	4.24	+0.00	4.62	-0.01	1202089m	317374m	334.94	172.66	232D	120D	
Aroclor 1016 {2}	4.74	-0.01	4.95	0.00	904194m	968584m	301.79	397.84	209D	276D	
Aroclor 1016 {3}	4.94	0.00	5.59	0.00	9130418m	658987m	923.10	219.72	641D	152D	RPD
Aroclor 1016 {4}	5.21	0.00	5.92	+0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}	5.50	0.00	6.12	0.00	0m	0m	0.0000	0.0000	11U	11U	
Aroclor 1221					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232					0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242					0	0	0.0000	0.0000	11U	11U	11U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclors, Total			18297577	7305080	1,755	1,592	1220JD	1100JD	1220JD
Aroclor 1260			0	0	1,235	1,329	857D	922D	857D
Aroclor 1260 {1}	7.08 0.00	7.83 0.00	12634741	2437485	1,283	1,105	890D	767D	
Aroclor 1260 {2}	8.09 -0.01	9.27 0.00	9826260	5064449	1,211	1,340	840D	930D	
Aroclor 1260 {3}	8.65 0.00	9.72 -0.01	9926371	4256715	1,206	1,180	837D	819D	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	21515377	13209636	1,145	1,530	794D	1060D	
Aroclor 1260 {5}	9.90 0.00	11.03 -0.01	18857304	8315540	1,329	1,489	922D	1030D	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0519 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	95.9 %		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F024.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D			**Vial:**	23
Acqu Date:	08/26/2015 21:51	**Quant Date:**	08/28/2015 11:52	**Dilution:**	5.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-2 -- K1508582-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Report Date: 28-Aug-2015 11:52

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Inj Date : 26-AUG-2015 21:51
Sample Info: K1508582-001 5X DMS
Misc Info :
Cal Date : 27-AUG-2015 08:10
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	3196573	1239494	18.1	15.8		100.00
Aroclor 1016	4.240	4.617	1202089	317374	335	173	80.00- 120.00	100.00(M)
	4.740	4.954	904194	968584	302	398	67.58- 101.37	75.22(M)
	4.937	5.590	9130418	658987	923	220	323.28- 484.93	1091.53(M)
	5.210	5.924					94.62- 141.94	0.00(M)
	5.500	6.117					92.33- 138.50	0.00(M)
		Average of Peak Amounts =			520	264		
Aroclor 1260	7.077	7.834	12634741	2437485	1280	1100	80.00- 120.00	100.00
	8.093	9.270	9826260	5064449	1210	1340	70.14- 105.21	77.77
	8.647	9.717	9926371	4256715	1210	1180	70.66- 105.99	78.56
	9.110	10.397	21515377	13209636	1140	1530	162.95- 244.43	170.29
	9.897	11.027	18857304	8315540	1330	1490	126.35- 189.53	149.25
		Average of Peak Amounts =			1230	1330		
Decachlorobiphenyl	12.263	13.624	6260112	1342110	39.6	16.3		100.00
Aroclors, Total	0.000	0.000	18297577	7305080	1750	1590		0.00

QC Flag Legend

M - Compound response manually integrated.

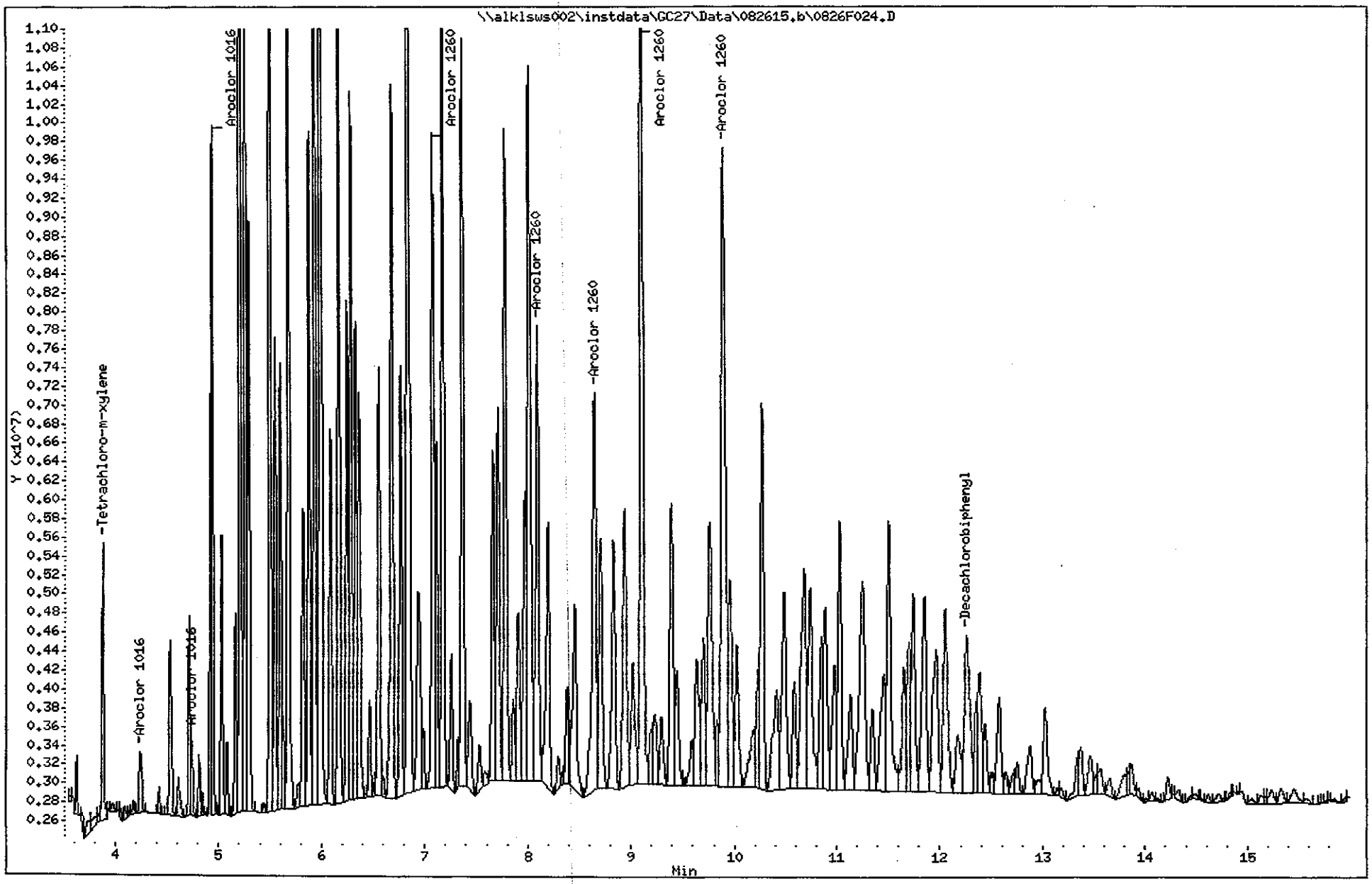
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Date : 26-AUG-2015 21:51
Client ID:
Sample Info: K1508582-001 5X DMS

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

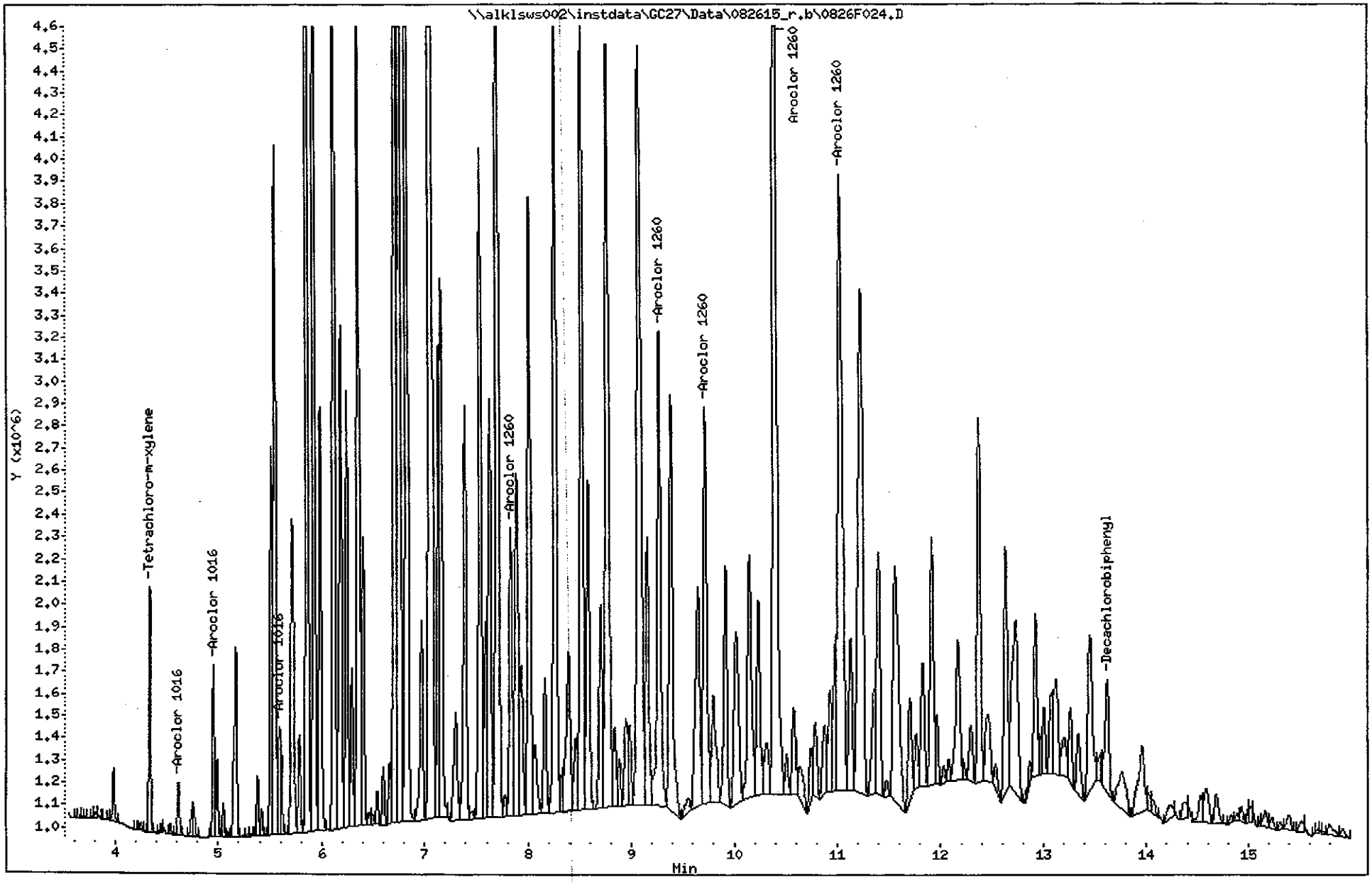


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Date : 26-AUG-2015 21:51
Client ID:
Sample Info: K1508582-001 5X DMS

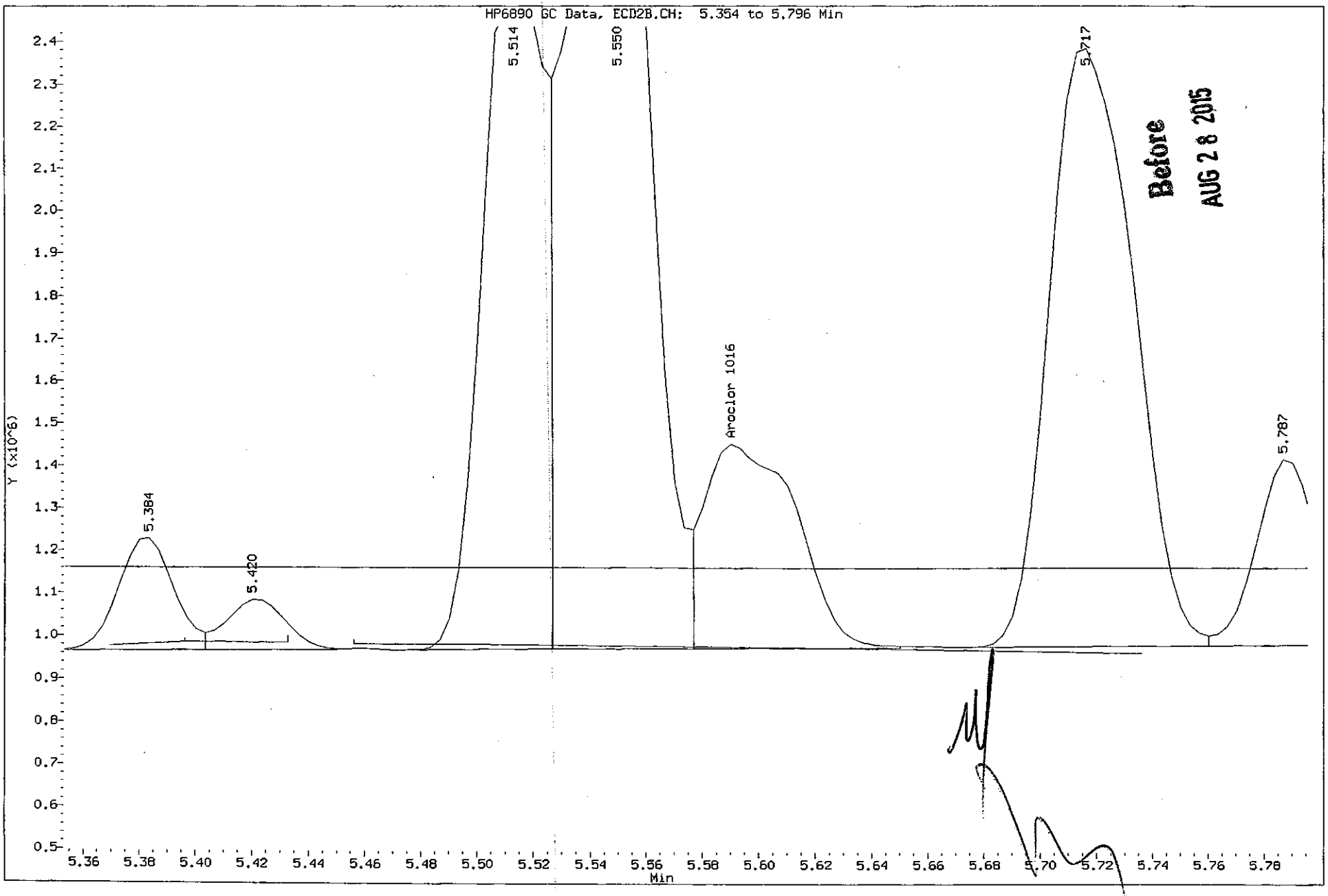
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

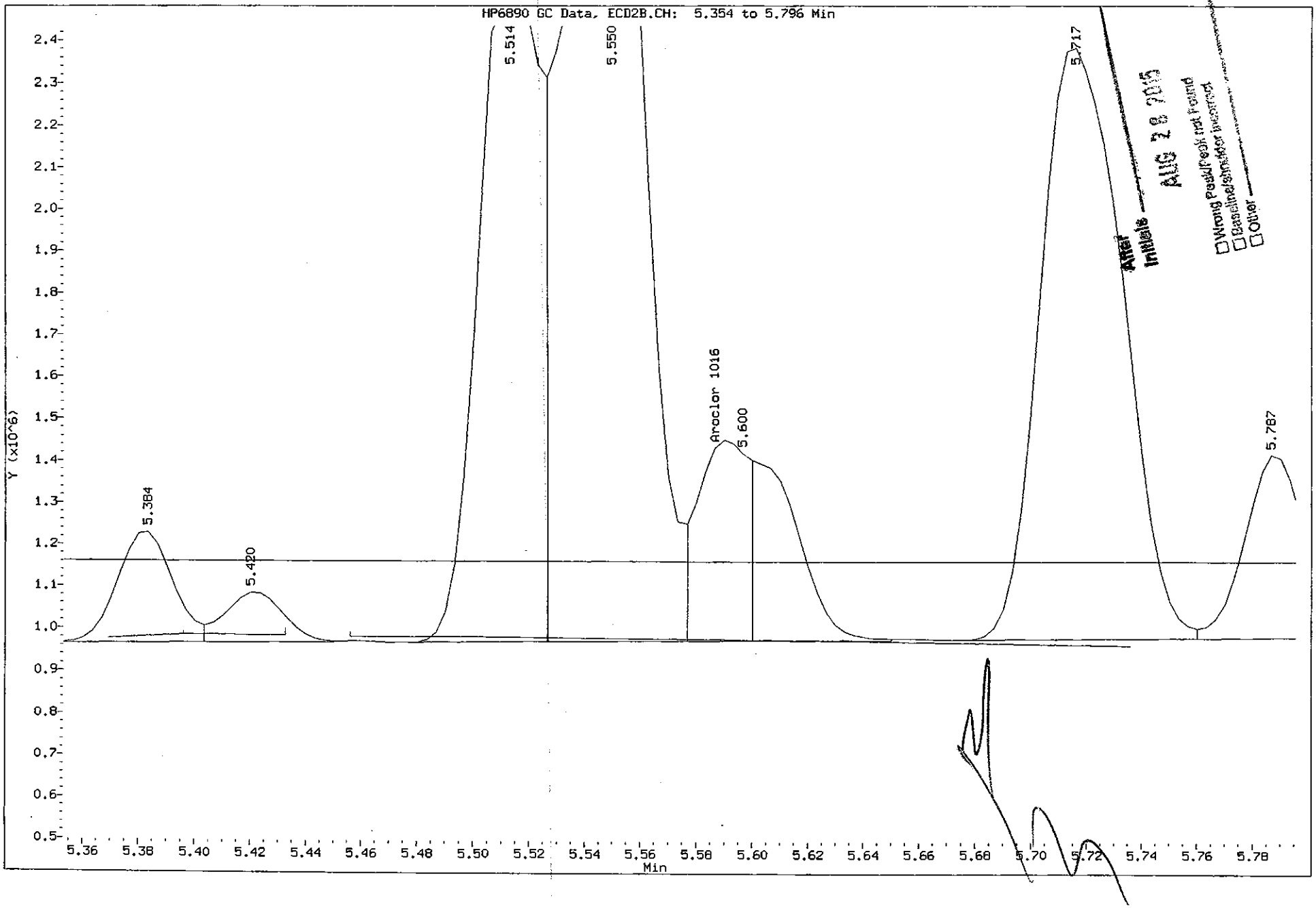


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:

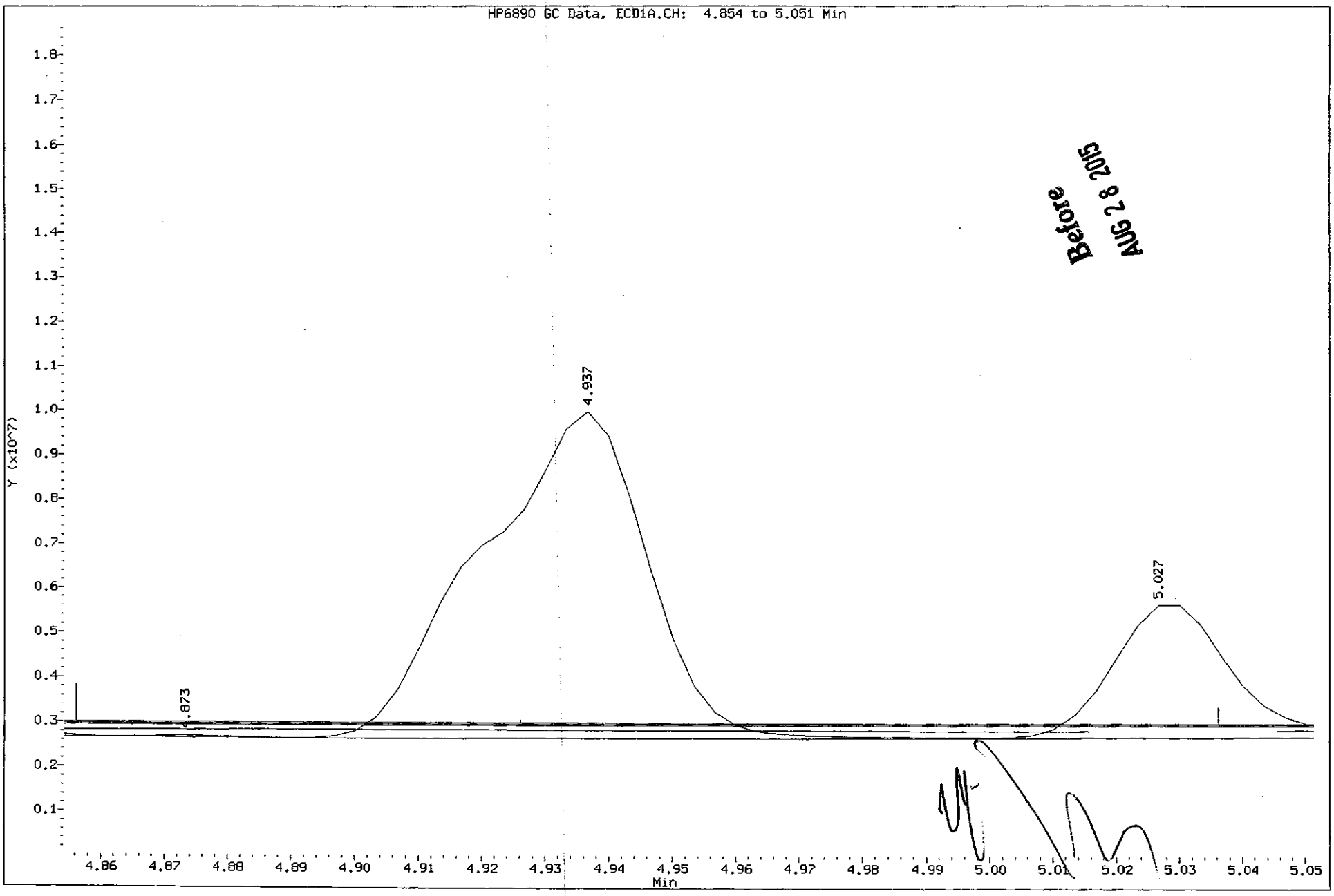


Before
AUG 2 8 2015

Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:

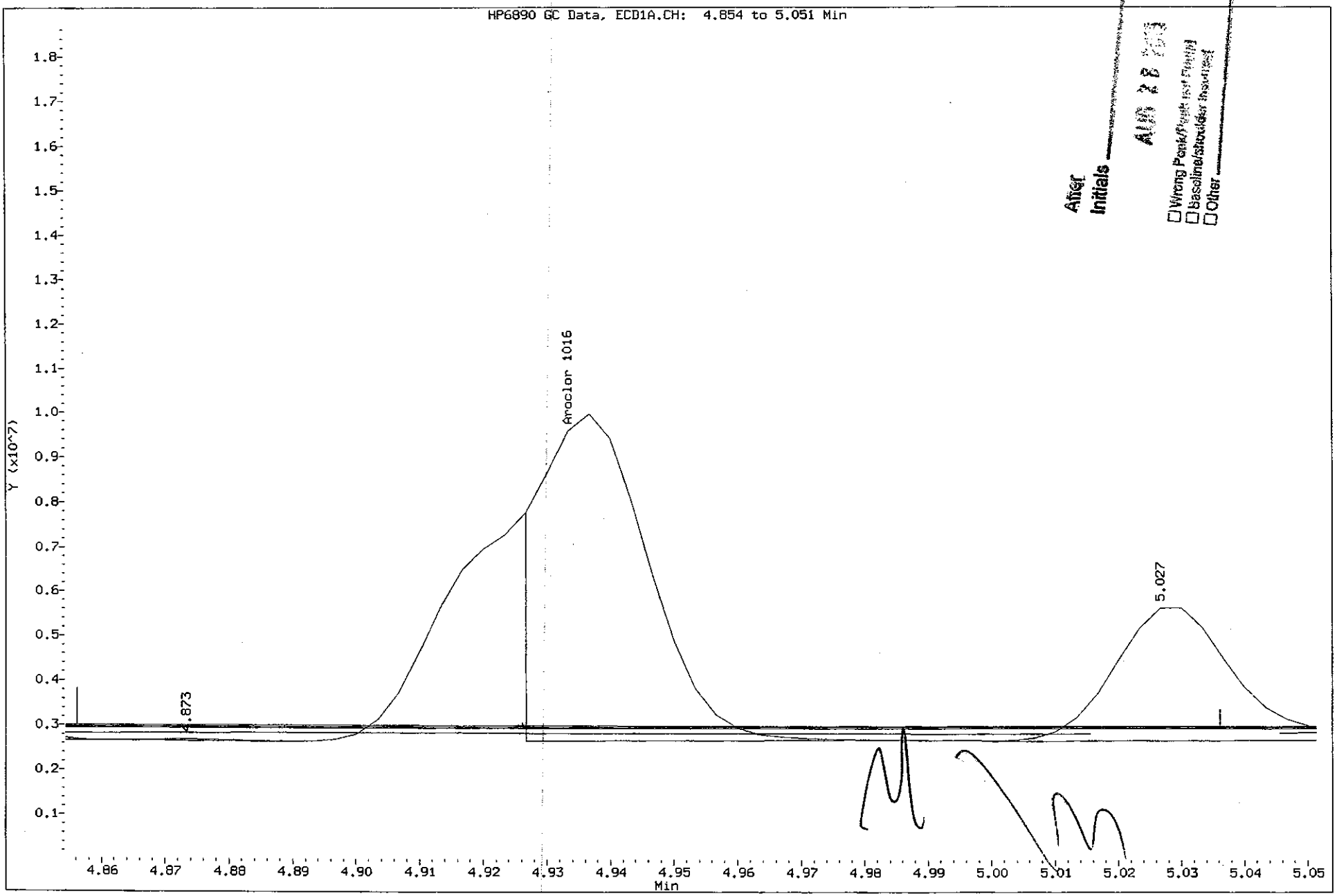


Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:



Before
AUG 28 2015

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F024.D
Injection Date: 26-AUG-2015 21:51
Instrument: GC27.i
Client Sample ID:



After Initials _____

AUG 28 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/shoulder issues
☐ Other _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F021.D
Lab ID: KWG1507505-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/20/2015 18:34
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F021.D
Lab ID: KWG1507505-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/20/2015 18:34
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV OK
	Aroclor 1260	22.7	NA	20	IOV Dual
Continuing Calibration Recovery (Closing)	Aroclor 1016	-21.5	NA	20	RO

Primary Review: MK 08/25/15

Secondary Review:

Printed: 08/25/2015 15:01:37
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F021.D			**Vial:**	17
Acqu Date:	08/20/2015 18:34	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/19/2015

Analysis Lot:	KWG1508035	**Prep Lot:**	KWG1507505	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1457807	**Prep Date:**	08/13/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082015.B\0820F022.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	14024952	5398844	79.23	68.64			79 OK
				%Recovery =	79 OK	69 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 0.00	13.63 0.00	13096920	6520004	82.82	79.17			83 OK
				%Recovery =	83 OK	79 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	714.20	610.41 CCV	143	122	122
Aroclor 1016 {1}	4.24	4.62 0.00	2825594	1201320	787.30	653.56	157	131	
Aroclor 1016 {2}	4.74 0.00	4.96	2251852	1528373	751.60	627.78	150	126	
Aroclor 1016 {3}	4.94	5.59 0.00	6641733	1764379	671.49	588.28	134	118	
Aroclor 1016 {4}	5.21 0.00	5.92 0.00	3406023	1271147	686.52	579.11	137	116	
Aroclor 1016 {5}	5.50 0.00	6.12 0.00	3489276	1300829	674.07	603.35	135	121	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F021.D			**Vial:**	17
Acqu Date:	08/20/2015 18:34	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507505-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			13796863	5525619	1,557	1,451	311J	290J	**311J**
Aroclor 1260			0	0	842.81	840.56	169	168	**168**
Aroclor 1260 {1}	7.08	7.84	6732624	1565372	683.47	709.63	137	142	
Aroclor 1260 {2}	8.09 0.00	9.27 0.00	7160381	3344346	882.49	884.79	176	177	
Aroclor 1260 {3}	8.65	9.72 0.00	7149011	3026907	868.55	838.75	174	168	
Aroclor 1260 {4}	9.11 0.00	10.40 0.00	16639342	7762822	885.13	899.05	177	180	
Aroclor 1260 {5}	9.90	11.04 +0.00	12688479	4862600	894.39	870.60	179	174	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F021.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F021.D
Inj Date : 20-AUG-2015 18:34
Sample Info: KWG1507505-3 LCS
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	14024952	5398844	79.2	68.6		100.00
Aroclor 1016	4.238	4.621	2825594	1201320	787	654	80.00- 120.00	100.00(H)
	4.741	4.955	2251852	1528373	752	628	64.65- 96.97	79.69(H)
	4.938	5.591	6641733	1764379	671	588	205.86- 308.80	235.06(H)
	5.211	5.921	3406023	1271147	687	579	100.27- 150.40	120.54(H)
	5.504	6.118	3489276	1300829	674	603	103.66- 155.49	123.49(H)
		Average of Peak Amounts =			714	610		
Aroclor 1260	7.078	7.835	6732624	1565372	683	710	80.00- 120.00	100.00(H)
	8.094	9.271	7160381	3344346	882	885	70.84- 106.26	106.35(H)
	8.648	9.718	7149011	3026907	869	839	70.88- 106.32	106.18(H)
	9.111	10.398	16639342	7762822	885	899	164.25- 246.38	247.14(H)
	9.898	11.035	12688479	4862600	894	871	128.46- 192.69	188.46(H)
		Average of Peak Amounts =			843	841		
Decachlorobiphenyl	12.264	13.625	13096920	6520004	82.8	79.2		100.00
Aroclors, Total	0.000	0.000	13796863	5525619	1560	1450		0.00

QC Flag Legend

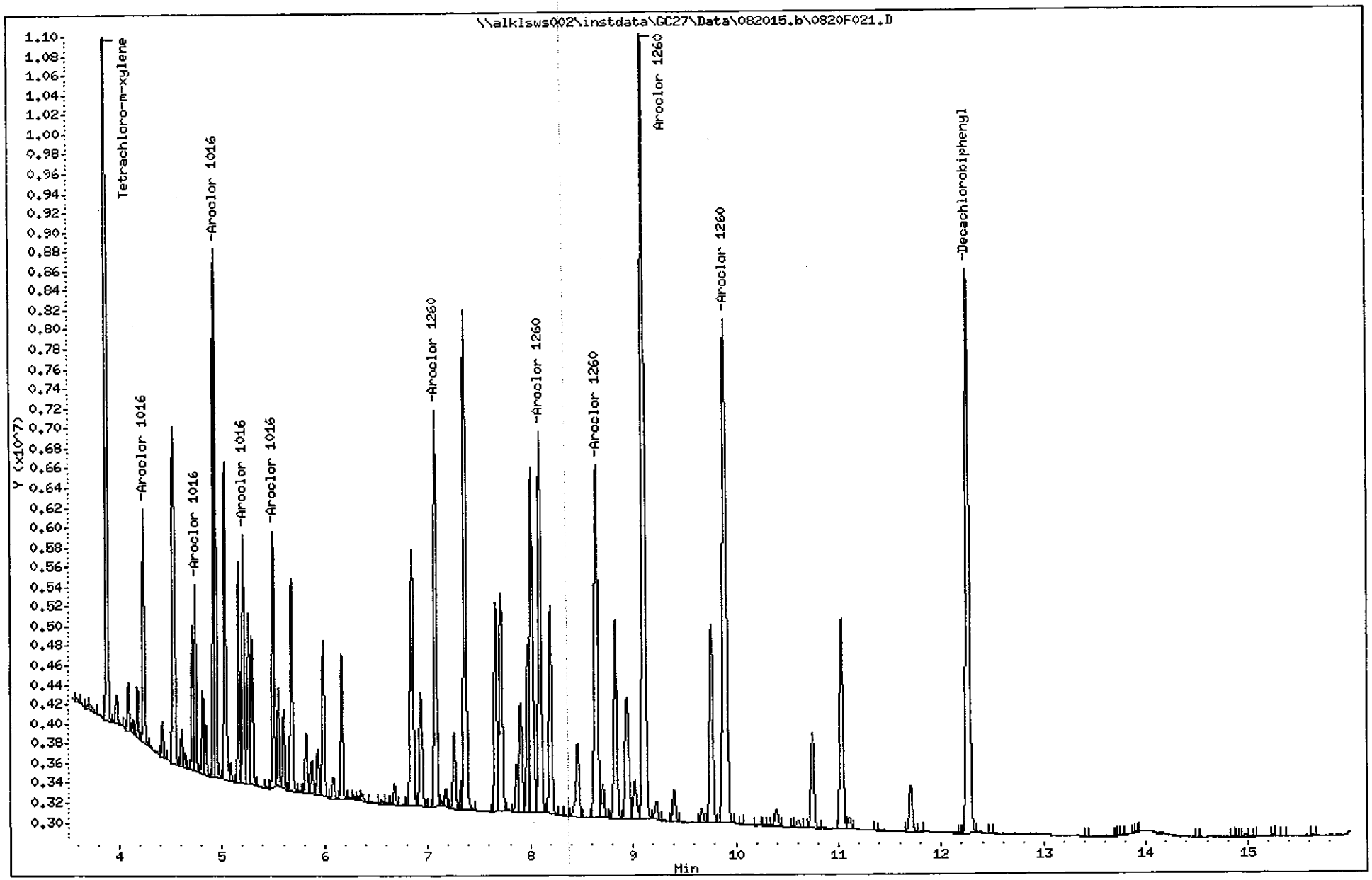
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F021.D
Date : 20-AUG-2015 18:34
Client ID:
Sample Info: KWG1507505-3 LCS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-35MS

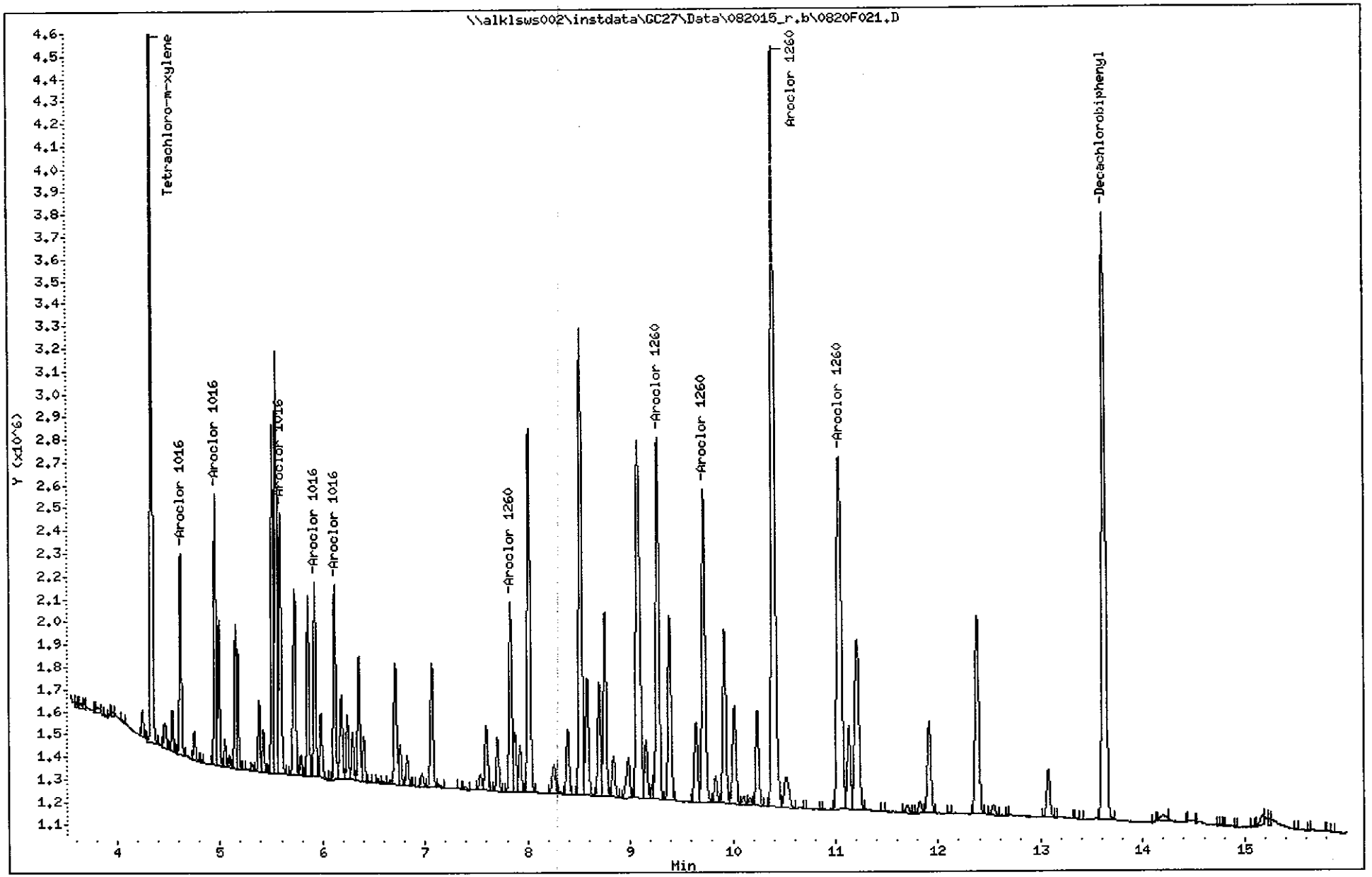


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F021.D
Date : 20-AUG-2015 18:34
Client ID:
Sample Info: KWG1507505-3 LCS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV OK
Continuing Calibration Recovery	Tetrachloro-m-xylene	-100.0	NA	20	nR

Primary Review: MR 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:50
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F005.D
Lab ID: KWG1507646-3
RunType: LCS
Matrix: SOIL

Date Acquired: 08/25/2015 12:38
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: mm 08/26/15

Secondary Review: [signature]

Printed: 08/26/2015 09:51:54
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Acqu Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/20/2015

Analysis Lot:	KWG1508064	**Prep Lot:**	KWG1507646	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1458722	**Prep Date:**	08/17/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\082515.B\0825F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88? +3.88	4.34 +0.00	12923724	5003159	73.01 CCV	63.61			64 OK
				%Recovery =	73 OK	64 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 +0.00	13.63 +0.00	12037920	6116497	76.13	74.27			76 OK
				%Recovery =	76 OK	74 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	685.70	601.86	137	120	120
Aroclor 1016 {1}	4.24 +0.00	4.62 0.00	2711257m	1179787	755.44	641.85	151	128	
Aroclor 1016 {2}	4.74 +0.00	4.96 +0.00	2154258m	1503163	719.02	617.42	144	123	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	6405854m	1726644	647.64	575.69	130	115	
Aroclor 1016 {4}	5.21 +0.00	5.92	3258241m	1271469	656.73	579.25	131	116	
Aroclor 1016 {5}	5.50	6.12 +0.00	3362978m	1283054	649.67	595.11	130	119	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D			**Vial:**	6
Aequ Date:	08/25/2015 12:38	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1507646-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			12630325	5133765	1,447	1,374	289J	275J	**289J**
Aroclor 1260			0	0	761.59	772.02	152	154	**152**
Aroclor 1260 {1}	7.08 +0.00	7.84 +0.00	6254963	1499096	634.98	679.59	127	136	
Aroclor 1260 {2}	8.09	9.27 +0.00	6541261	3077970	806.19	814.31	161	163	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.00	6505331	2806207	790.35	777.60	158	156	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.00	14646545	6933669	779.13	803.02	156	161	
Aroclor 1260 {5}	9.89	11.04 +0.01	11310937	4387766	797.29	785.59	159	157	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Inj Date : 25-AUG-2015 12:38
Sample Info: KWG1507645-3 LCS
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	12923724	5003159	73.0	63.6		100.00
Aroclor 1016	4.238	4.618	2711257	1179787	755	642	80.00- 120.00	100.00(M)
	4.744	4.955	2154258	1503163	719	617	68.02- 102.04	79.46(M)
	4.938	5.588	6405854	1726644	648	576	217.78- 326.67	236.27(M)
	5.211	5.921	3258241	1271469	657	579	103.05- 154.58	120.17(M)
	5.501	6.118	3362978	1283054	650	595	104.78- 157.16	124.04(M)
		Average of Peak Amounts =			686	602		
Aroclor 1260	7.078	7.835	6254963	1499096	635	680	80.00- 120.00	100.00(H)
	8.094	9.271	6541261	3077970	806	814	70.16- 105.25	104.58(H)
	8.648	9.721	6505331	2806207	790	778	71.52- 107.28	104.00(H)
	9.111	10.395	14646545	6933669	779	803	162.72- 244.08	234.16(H)
	9.894	11.035	11310937	4387766	797	786	127.86- 191.79	180.83(H)
		Average of Peak Amounts =			761	772		
Decachlorobiphenyl	12.264	13.625	12037920	6116497	76.1	74.3		100.00
Aroclors, Total	0.000	0.000	12630325	5133765	1450	1370		0.00

QC Flag Legend

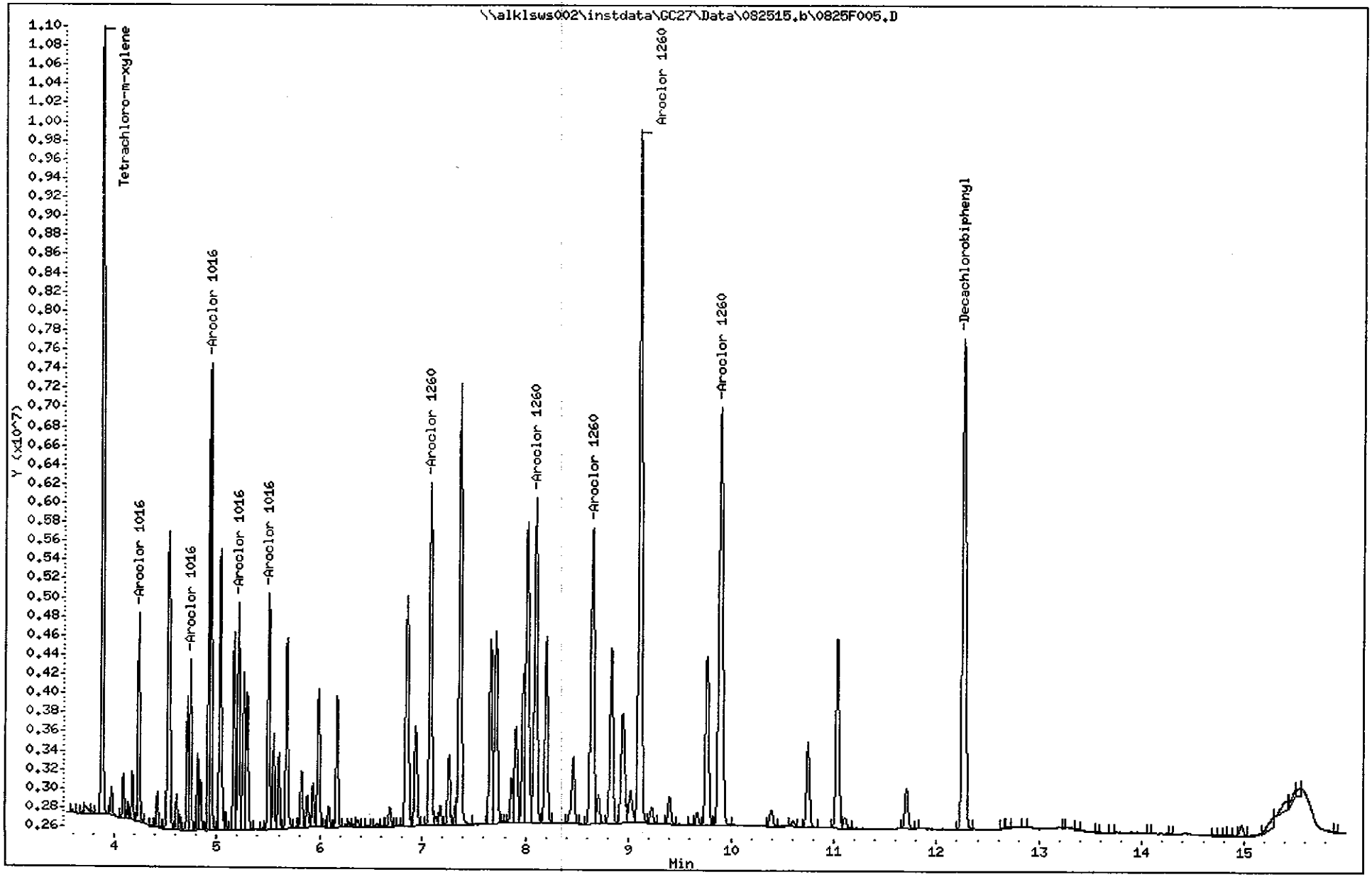
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

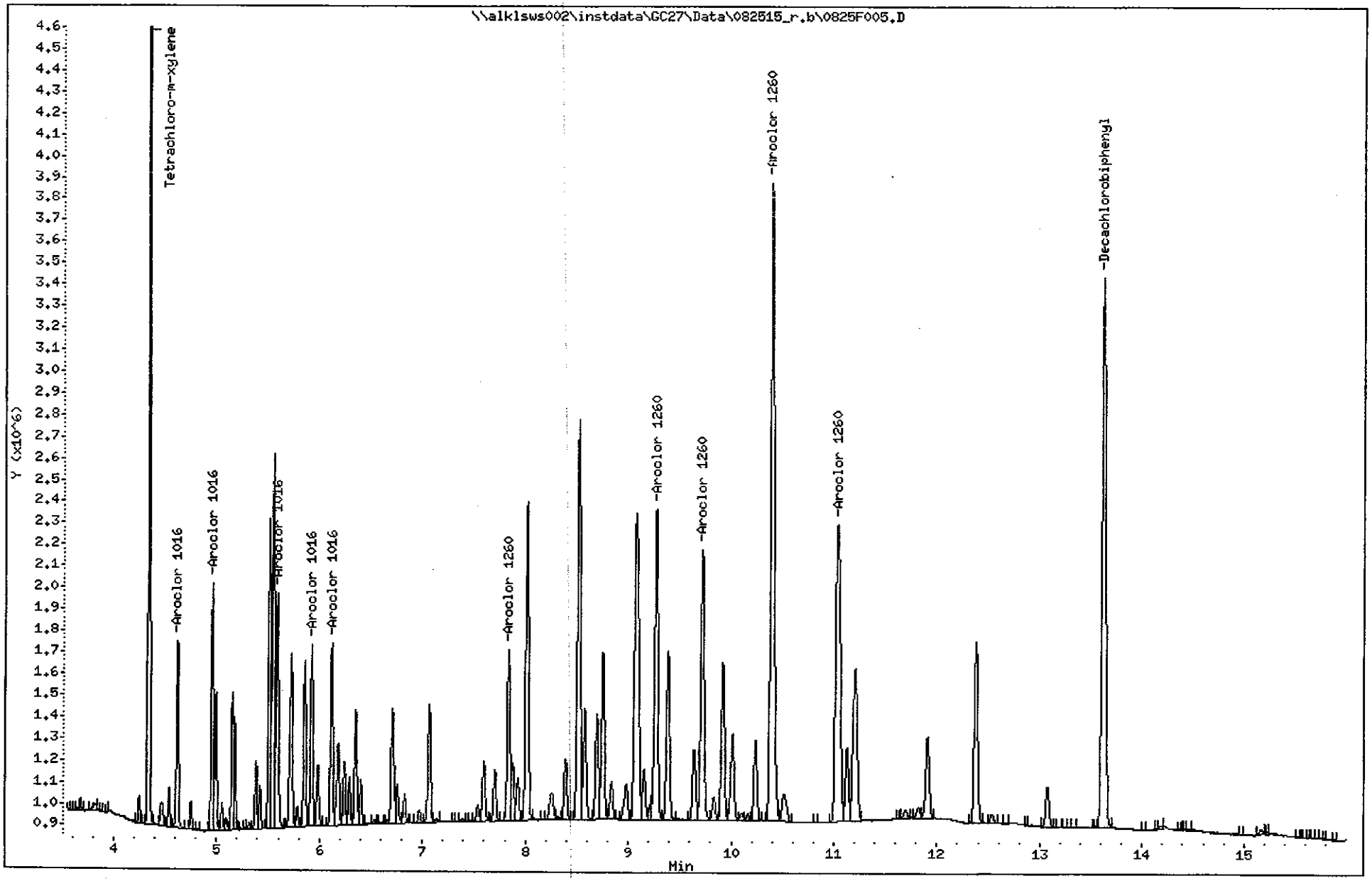


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F005.D
Date : 25-AUG-2015 12:38
Client ID:
Sample Info: KWG1507645-3 LCS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

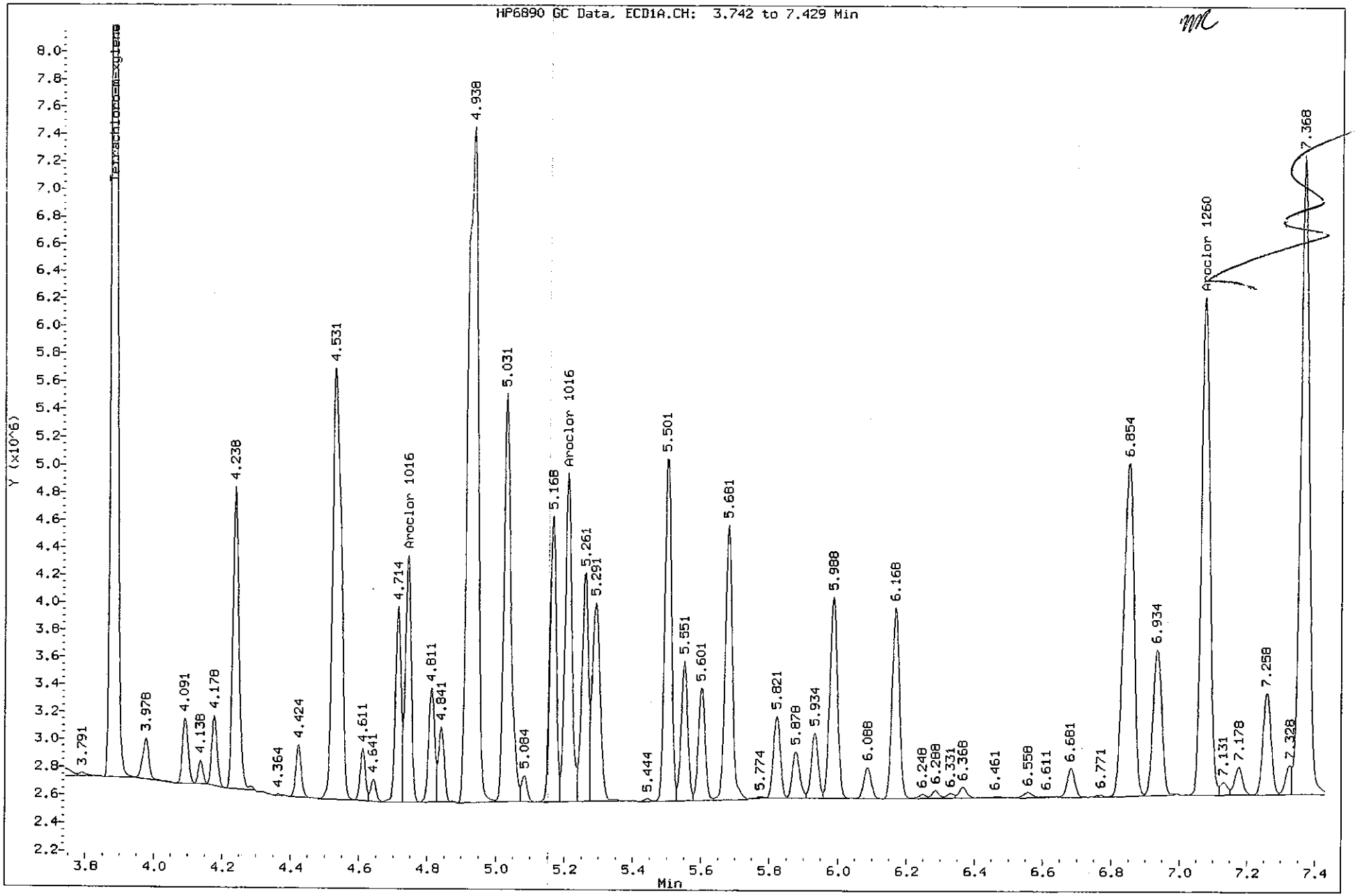
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:

Before

AUG 2 6 2015

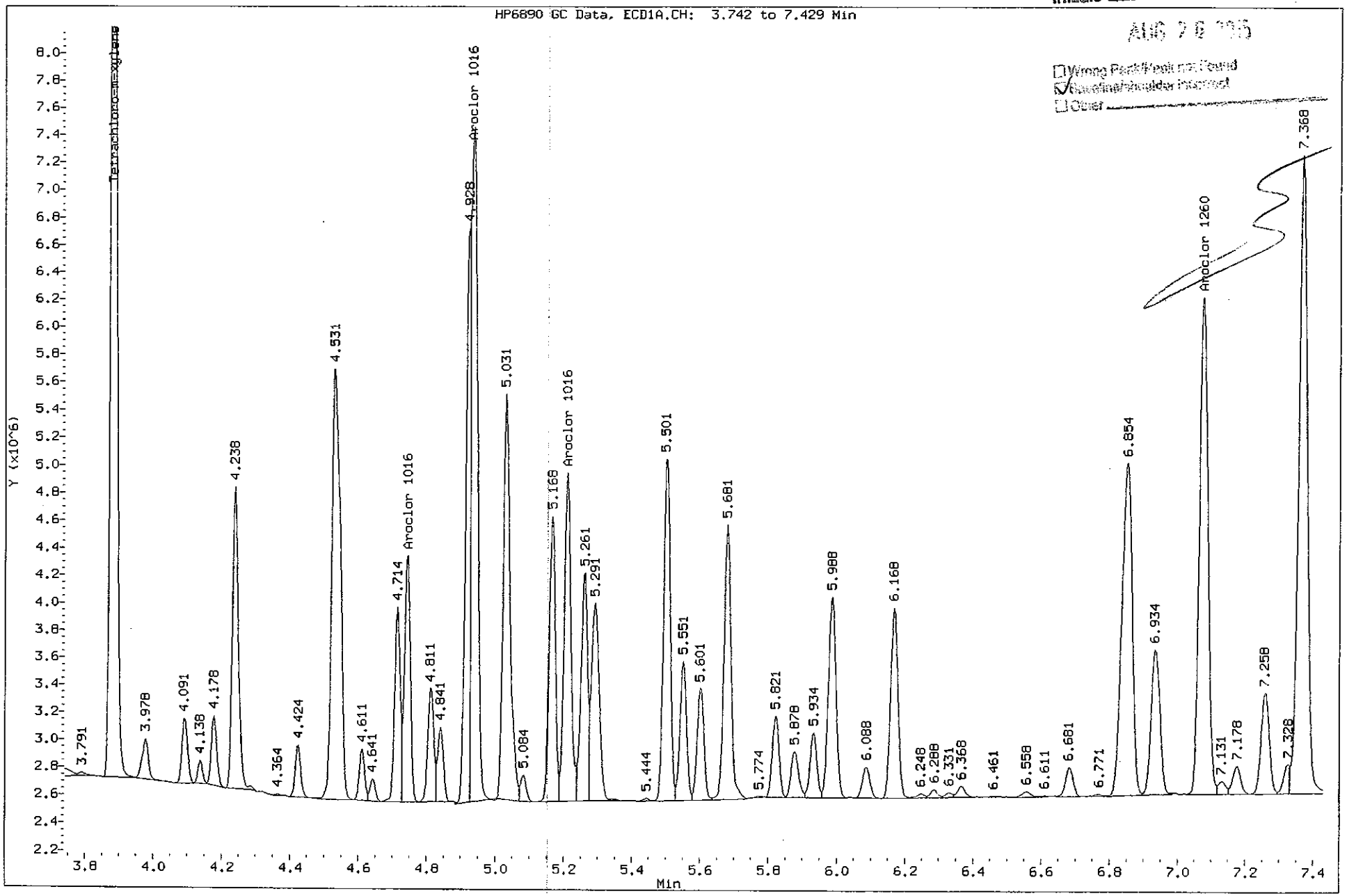


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F005.D
Injection Date: 25-AUG-2015 12:38
Instrument: GC27.i
Client Sample ID:

After
Initials MR

AUG 26 2015

☐ Wrong Peak/Peak not Found
☑ Baseline/Shoulder Normal
☐ Other



Injection Log

Directory: J:\GC27\Data\082015.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	0820F001.D	1.	PRIMER		08/20/22015 10:47:1
2	100	0820F002.D	1.	PRIMER		08/20/22015 11:10:0
3	1	0820F003.D	1.	1660 @ 500ppb PCB6-74E		08/20/22015 11:33:2
4	99	0820F004.D	1.	IB		08/20/22015 11:57:0
5	6	0820F005.D	5.	K1507671-006 5X		08/20/22015 12:20:3
6	7	0820F006.D	10.	K1507671-009 10X		08/20/22015 12:43:5
7	1	0820F007.D	1.	1660 @ 500ppb PCB6-74E		08/20/22015 1:07:2
8	99	0820F008.D	1.	IB		08/20/22015 1:30:4
9	1	0820F009.D	1.	1660 @ 500ppb PCB6-74E		08/20/22015 1:54:0
10	99	0820F010.D	1.	IB		08/20/22015 2:17:3
11	11	0820F011.D	1.	KWG1507267-3 LCS		08/20/22015 2:40:5
12	12	0820F012.D	1.	KWG1507267-4 MB		08/20/22015 3:04:1
13	13	0820F013.D	5.	K1508265-001 5X	nr	08/20/22015 3:27:4
14	14	0820F014.D	5.	K1508265-001 MS 5X		08/20/22015 3:51:0
15	15	0820F015.D	5.	K1508265-001 DMS 5X		08/20/22015 4:14:3
16	16	0820F016.D	5.	K1508265-002 5X		08/20/22015 4:37:5
17	2	0820F017.D	1.	1660 @ 500ppb PCB6-74E DB↑		08/20/22015 5:01:2
18	99	0820F018.D	1.	IB		08/20/22015 5:24:4
19	2	0820F019.D	1.	1660 @ 500ppb PCB6-74E	Run#48653	08/20/22015 5:48:1
20	99	0820F020.D	1.	IB	CA#3624	08/20/22015 6:11:3
21	17	0820F021.D	1.	KWG1507505-3 LCS	KWG1508035	08/20/22015 6:34:5
22	18	0820F022.D	1.	KWG1507505-4 MB		08/20/22015 6:58:1
23	19	0820F023.D	1.	K1508581-002 see X01		08/20/22015 7:21:3
24	20	0820F024.D	1.	K1508684-001		08/20/22015 7:44:5
25	21	0820F025.D	1.	K1508684-001 MS		08/20/22015 8:08:1
26	22	0820F026.D	1.	K1508684-001 DMS		08/20/22015 8:31:3
27	23	0820F027.D	1.	K1508690-013		08/20/22015 8:54:5
28	24	0820F028.D	1.	K1508690-014 see Hg dilution		08/20/22015 9:18:1
29	2	0820F029.D	1.	1660 @ 500ppb PCB6-74E		08/20/22015 9:41:4
30	99	0820F030.D	1.	IB		08/20/22015 10:05:1
31	25	0820F031.D	1.	KWG1506152-1		08/20/22015 10:28:5
32	26	0820F032.D	1.	KWG1506152-2		08/20/22015 10:52:3
33	27	0820F033.D	1.	KWG1506152-3		08/20/22015 11:16:0
34	28	0820F034.D	1.	KWG1506152-4		08/20/22015 11:39:3
35	29	0820F035.D	1.	KWG1506152-5		08/21/22015 12:02:4
36	30	0820F036.D	1.	KWG1506152-6		08/21/22015 12:26:0
37	31	0820F037.D	1.	KWG1506152-7		08/21/22015 12:49:3
38	32	0820F038.D	1.	KWG1506152-8	processed separately	08/21/22015 1:13:0
39	33	0820F039.D	1.	KWG1506152-9		08/21/22015 1:36:2
40	34	0820F040.D	1.	KWG1506152-10		08/21/22015 2:00:0
41	35	0820F041.D	1.	KWG1506152-11		08/21/22015 2:23:3
42	2	0820F042.D	1.	1660 @ 500ppb PCB6-74E		08/21/22015 2:46:5
43	99	0820F043.D	1.	IB		08/21/22015 3:10:3
44	2	0820F044.D	1.	1660 @ 500ppb PCB6-74E		08/21/22015 3:34:0
45	99	0820F045.D	1.	IB		08/21/22015 3:57:3
46	36	0820F046.D	1.	KWG1507602-1 LCS		08/21/22015 4:21:0
47	97	0820F047.D	1.	...CARRYOVER BLANK		08/21/22015 4:44:2
48	37	0820F048.D	1.	KWG1507602-2 DLCS		08/21/22015 5:07:5
49	97	0820F049.D	1.	...CARRYOVER BLANK		08/21/22015 5:31:2
50	38	0820F050.D	1.	KWG1507602-3 MB	nr	08/21/22015 5:54:5
51	97	0820F051.D	1.	...CARRYOVER BLANK		08/21/22015 6:18:1
52	39	0820F052.D	1.	K1508349-004		08/21/22015 6:41:5
53	97	0820F053.D	1.	...CARRYOVER BLANK		08/21/22015 7:05:2
54	40	0820F054.D	1.	K1508348-011		08/21/22015 7:28:4
55	97	0820F055.D	1.	...CARRYOVER BLANK		08/21/22015 7:52:2

5

Injection Log

Directory: J:\GC27\Data\082015.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	41	0820F056.D	1.	K1508494-001		08/21/22015 8:15:5
57	97	0820F057.D	1.	...CARRYOVER BLANK		08/21/22015 8:39:3

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F019.D
Lab ID: KWG1508035-9
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 17:48
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOU ok

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F019.D
Lab ID: KWG1508035-9
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 17:48
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Printed: 08/25/2015 15:01:19
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F019.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F019.D			**Vial:**	2
Acqu Date:	08/20/2015 17:48	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508035-9				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508035	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9777199	3669959	55.23	46.66			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27	13.63	8305441	4119471	52.52	50.02			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	481.93	416.46			
Aroclor 1016 {1}	4.24	4.62	1836608	782877	511.74	425.91			
Aroclor 1016 {2}	4.75	4.96	1529377	1042026	510.46	428.01			
Aroclor 1016 {3}	4.94	5.59	4516017	1204879	456.58	401.73			
Aroclor 1016 {4}	5.21	5.93	2334708	907793	470.59	413.57			
Aroclor 1016 {5}	5.51	6.12	2382583	890581	460.28	413.07			
Aroclor 1260			0	0	490.64	485.13			
Aroclor 1260 {1}	7.08	7.84	4534038	996955	460.28	451.95			
Aroclor 1260 {2}	8.10	9.28	3959496	1842522	487.99	487.46			
Aroclor 1260 {3}	8.65	9.72	4077019	1762774	495.33	488.46			
Aroclor 1260 {4}	9.11	10.40	9340915	4234941	496.89	490.47			
Aroclor 1260 {5}	9.90	11.03	7273867	2833496	512.73	507.31			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F019.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F019.D
Inj Date : 20-AUG-2015 17:48
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

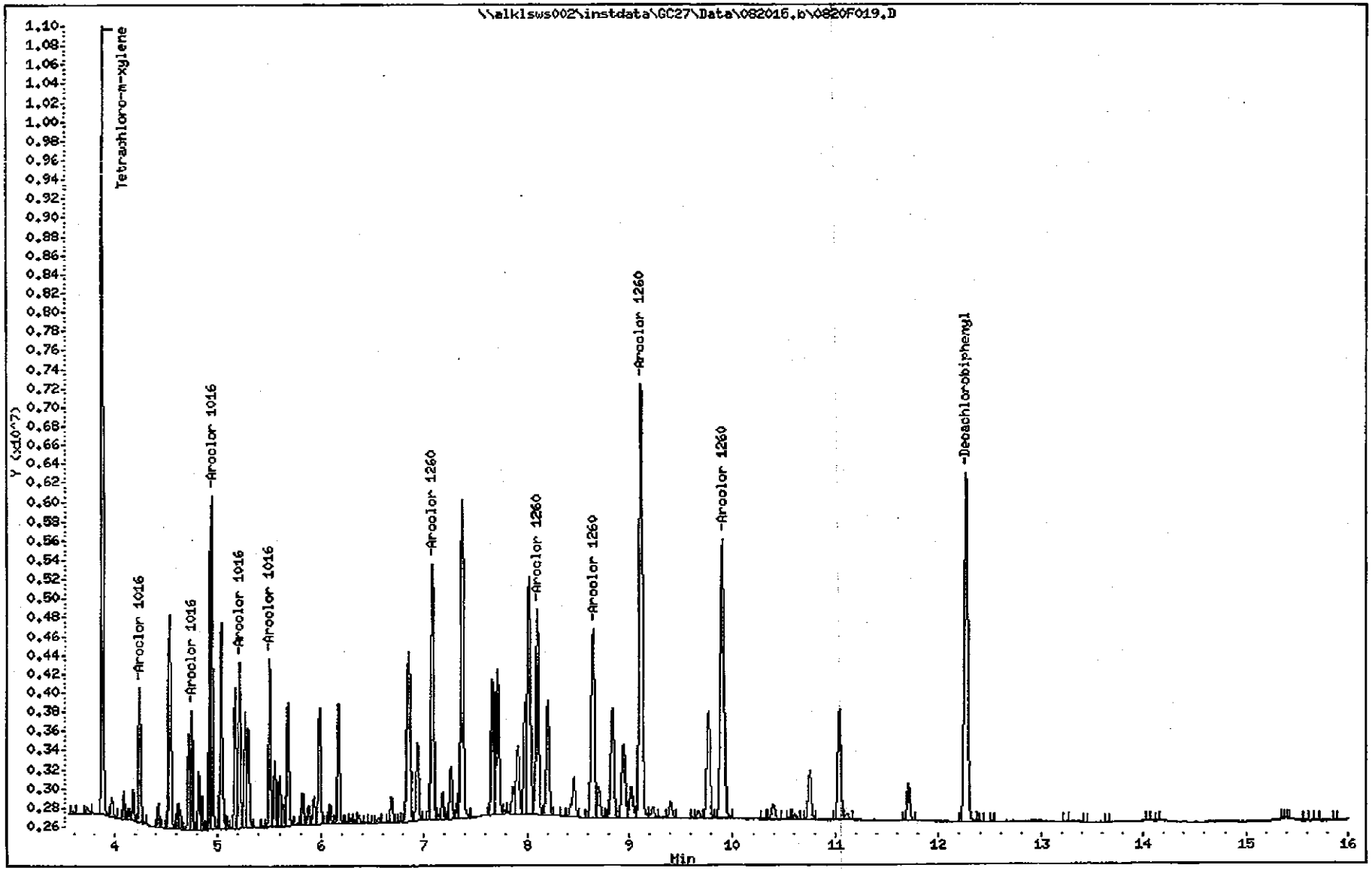
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.342	9777199	3669959	55.2	46.7		100.00
Aroclor 1016	4.238	4.622	1836608	782877	512	426	80.00- 120.00	100.00
	4.745	4.955	1529377	1042026	510	428	64.65- 96.97	83.27
	4.938	5.592	4516017	1204879	457	402	205.86- 308.80	245.89
	5.212	5.925	2334708	907793	471	414	100.27- 150.40	127.12
	5.505	6.119	2382583	890581	460	413	103.66- 155.49	129.73
		Average of Peak Amounts =			482	417		
Aroclor 1260	7.078	7.835	4534038	996955	460	452	80.00- 120.00	100.00
	8.098	9.275	3959496	1842522	488	487	70.84- 106.26	87.33
	8.648	9.722	4077019	1762774	495	488	70.88- 106.32	89.92
	9.112	10.399	9340915	4234941	497	490	164.25- 246.38	206.02
	9.898	11.032	7273867	2833496	513	507	128.46- 192.69	160.43
		Average of Peak Amounts =			491	485		
Decachlorobiphenyl	12.265	13.629	8305441	4119471	52.5	50.0		100.00

Data File: \\alklsws002\instdata\GC27\Data\082015,b\0820F019.D
Date : 20-AUG-2015 17:48
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

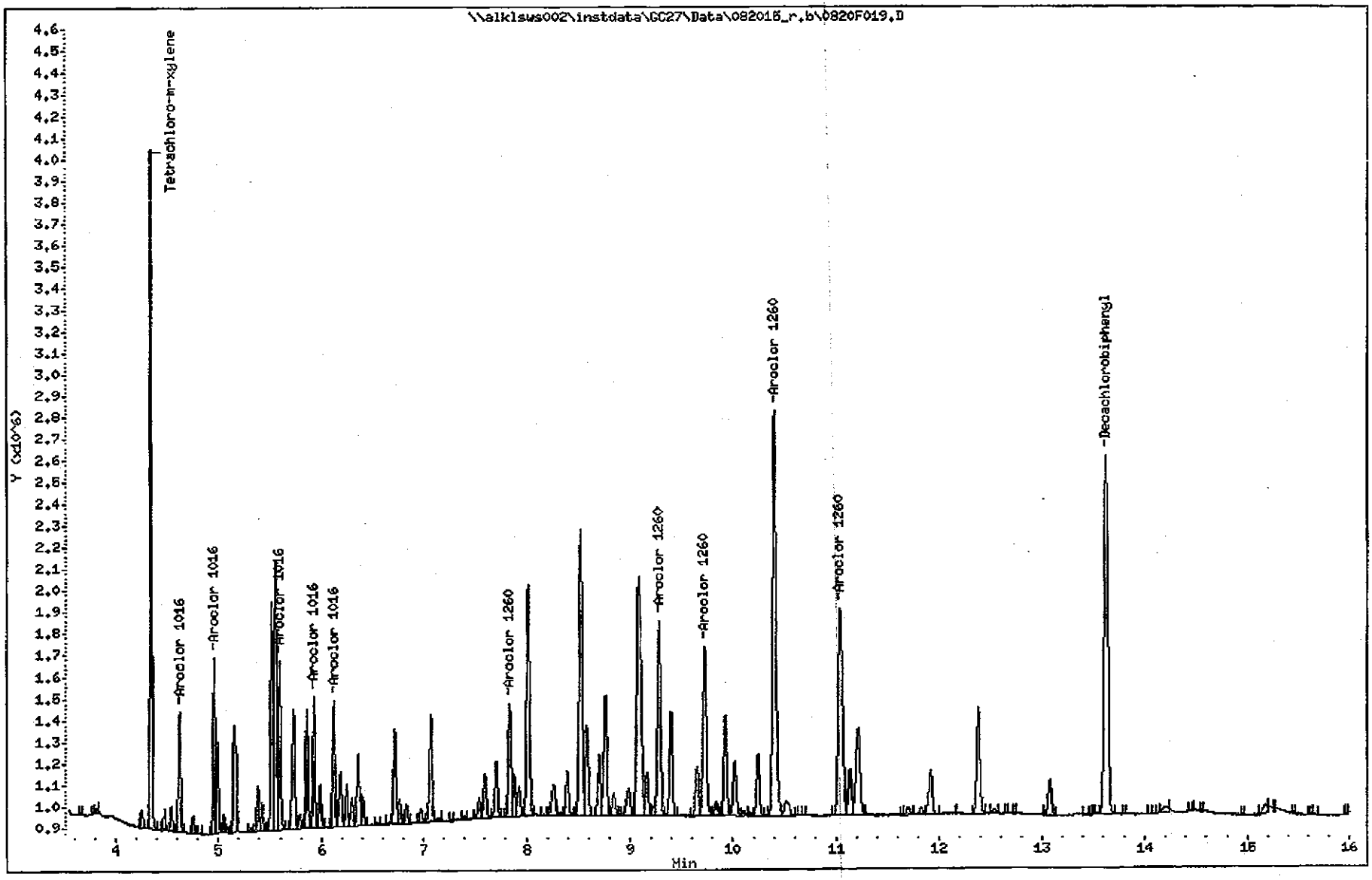


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F019.D
Date : 20-AUG-2015 17:48
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F020.D
Lab ID: KWG1508035-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 18:11
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MK 08/28/15

Secondary Review: [illegible]

Printed: 08/25/2015 15:01:23
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F020.D
Lab ID: KWG1508035-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 18:11
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV ok

Primary Review: mk 08/25/15

Secondary Review: [illegible]

Printed: 08/25/2015 15:01:27
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F020.D			**Vial:**	99
Acqu Date:	08/20/2015 18:11	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508035-10				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508035	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respc #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27		18151	0	0.1150	0.0000			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F020.D			**Vial:**	99
Acqu Date:	08/20/2015 18:11	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508035-10				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F020.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F020.D
Inj Date : 20-AUG-2015 18:11
Sample Info: IB
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.268	0.000	18151	0	0.115	0.000		100.00

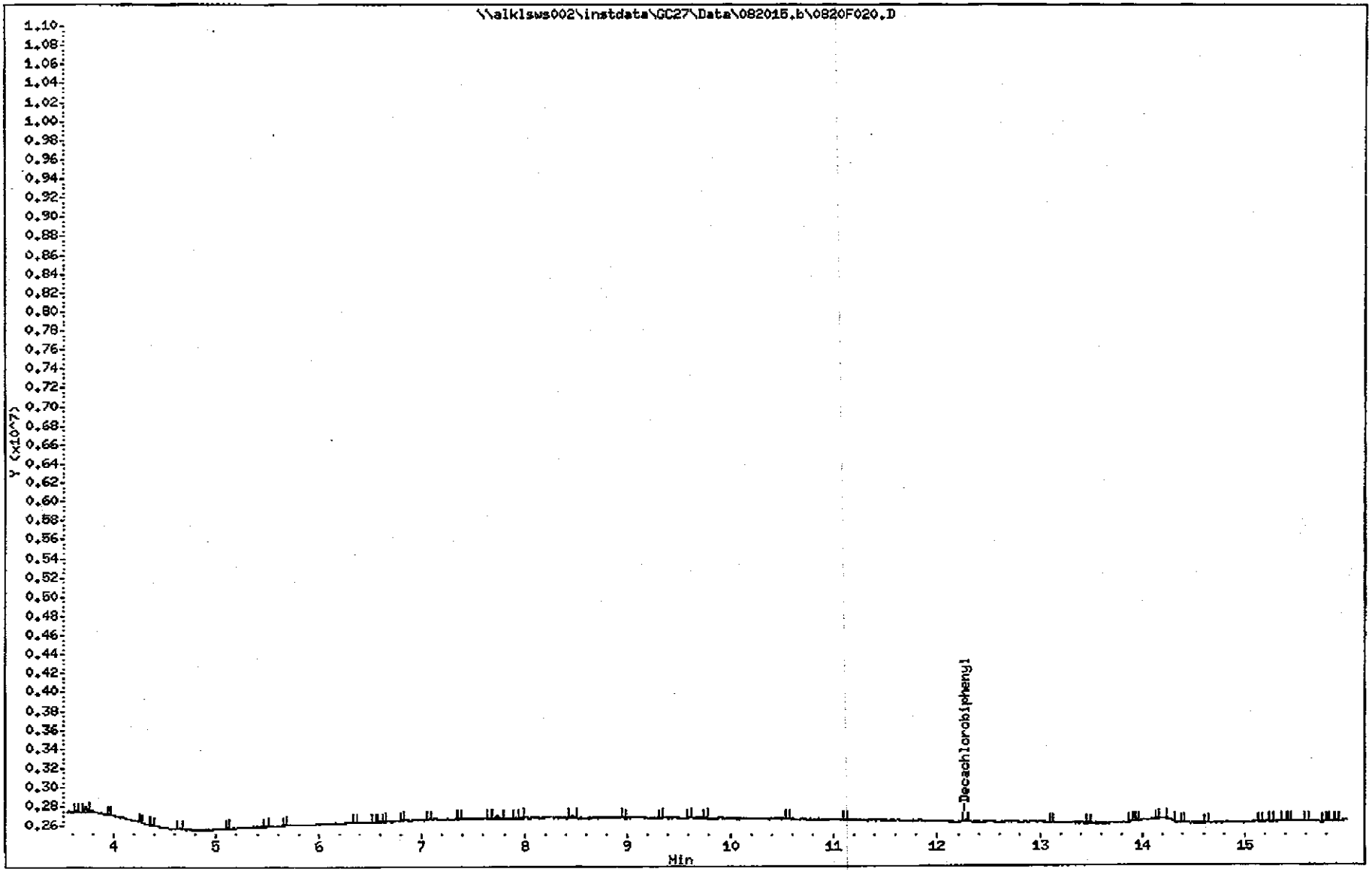
Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F020.D
Date : 20-AUG-2015 18:11
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

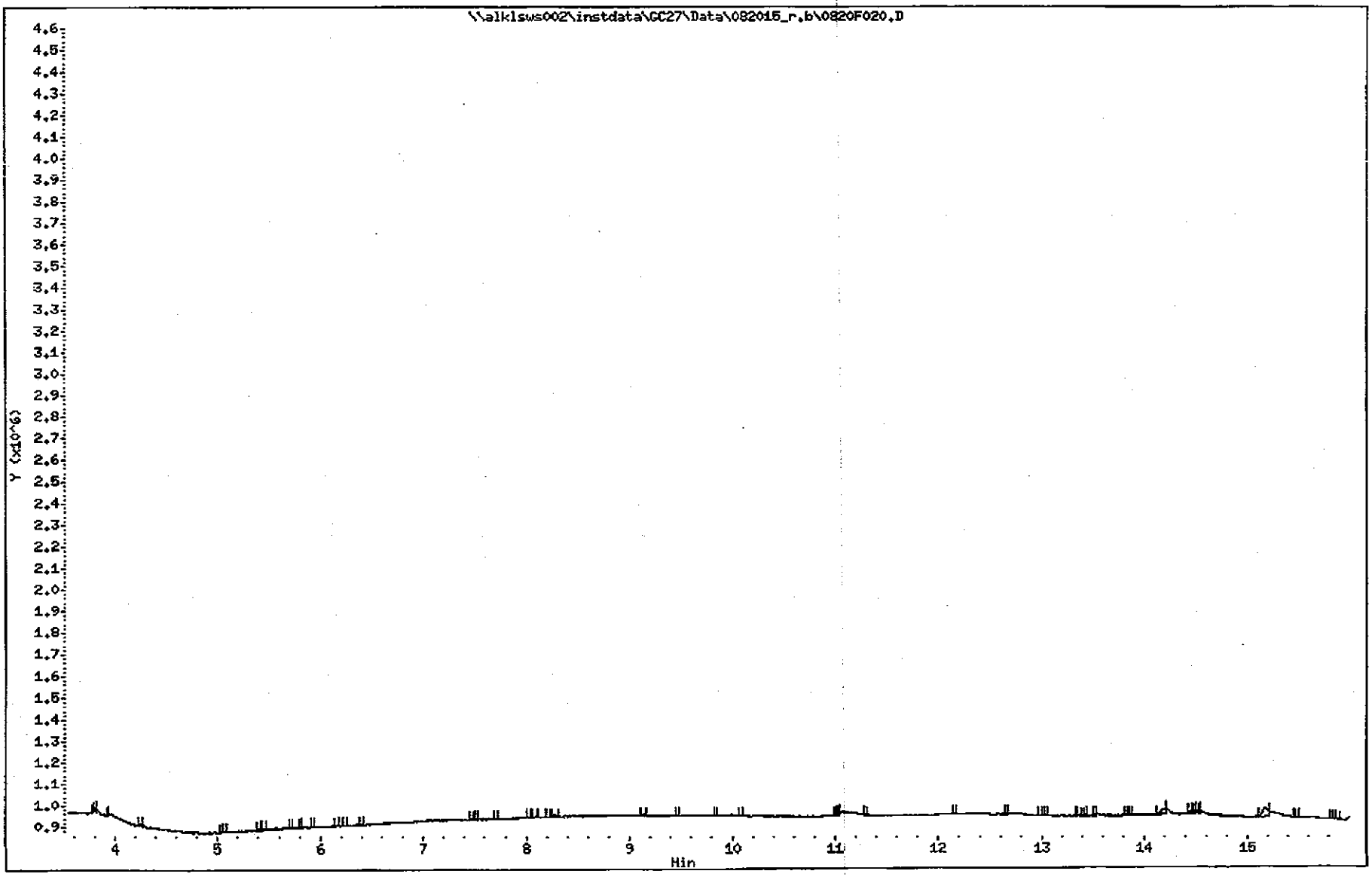


Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F020.D
Date : 20-AUG-2015 18:11
Client ID:
Sample Info: IB

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F029.D
Lab ID: KWG1508035-11
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 21:41
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ347

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCU OK

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:42:20
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F029.D	**Date Acquired:**	08/20/2015 21:41
Lab ID:	KWG1508035-1I	**Date Quantitated:**	08/25/2015 14:08
RunType:	CCV	**Batch ID:**	KWG1508035
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ347

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	Low Dual

Primary Review: MK 08/25/15

Secondary Review:

Printed: 08/25/2015 15:42:26
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F029.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F029.D			**Vial:**	2
Acqu Date:	08/20/2015 21:41	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	CCV			**Solo Conc. Units:**	ng/mL
Lab ID:	KWG1508035-11				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508035	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9619980	3584103	54.34	45.57				NA
				%Recovery =	NA	NA	Limits =	21-114		
Decachlorobiphenyl	12.26	13.63	8056895	3989933	50.95	48.45				NA
				%Recovery =	NA	NA	Limits =	36-113		

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	451.53	392.35			
Aroclor 1016 {1}	4.24	4.62	1733998	727727	483.15	395.91			
Aroclor 1016 {2}	4.74	4.96	1421588	981534	474.48	403.16			
Aroclor 1016 {3}	4.94	5.59	4097965	1146851	414.31	382.38			
Aroclor 1016 {4}	5.21	5.92	2216287	854529	446.72	389.30			
Aroclor 1016 {5}	5.50	6.12	2272382	842971	438.99	390.99			
Aroclor 1260			0	0	480.10	470.22			
Aroclor 1260 {1}	7.08	7.84	4448913	967714	451.64	438.70			
Aroclor 1260 {2}	8.10	9.27	3922664	1797151	483.45	475.46			
Aroclor 1260 {3}	8.65	9.72	3966521	1688632	481.90	467.92			
Aroclor 1260 {4}	9.11	10.40	9077092	4121751	482.86	477.36			
Aroclor 1260 {5}	9.90	11.03	7102740	2746241	500.66	491.69			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F029.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F029.D
Inj Date : 20-AUG-2015 21:41
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.883	4.340	9619980	3584103	54.3	45.6		100.00
Aroclor 1016	4.240	4.623	1733998	727727	483	396	80.00- 120.00	100.00
	4.743	4.957	1421588	981534	474	403	64.65- 96.97	81.98
	4.940	5.590	4097965	1146851	424	382	205.86- 308.80	236.33
	5.210	5.923	2216287	854529	447	389	100.27- 150.40	127.81
	5.503	6.120	2272382	842971	439	391	103.66- 155.49	131.05
		Average of Peak Amounts =			451	392		
Aroclor 1260	7.080	7.837	4448913	967714	452	439	80.00- 120.00	100.00
	8.096	9.273	3922664	1797151	483	475	70.84- 106.26	88.17
	8.650	9.720	3966521	1688632	482	468	70.88- 106.32	89.16
	9.113	10.400	9077092	4121751	483	477	164.25- 246.38	204.03
	9.896	11.033	7102740	2746241	501	492	128.46- 192.69	159.65
		Average of Peak Amounts =			480	470		
Decachlorobiphenyl	12.263	13.627	8056895	3989933	50.9	48.5		100.00

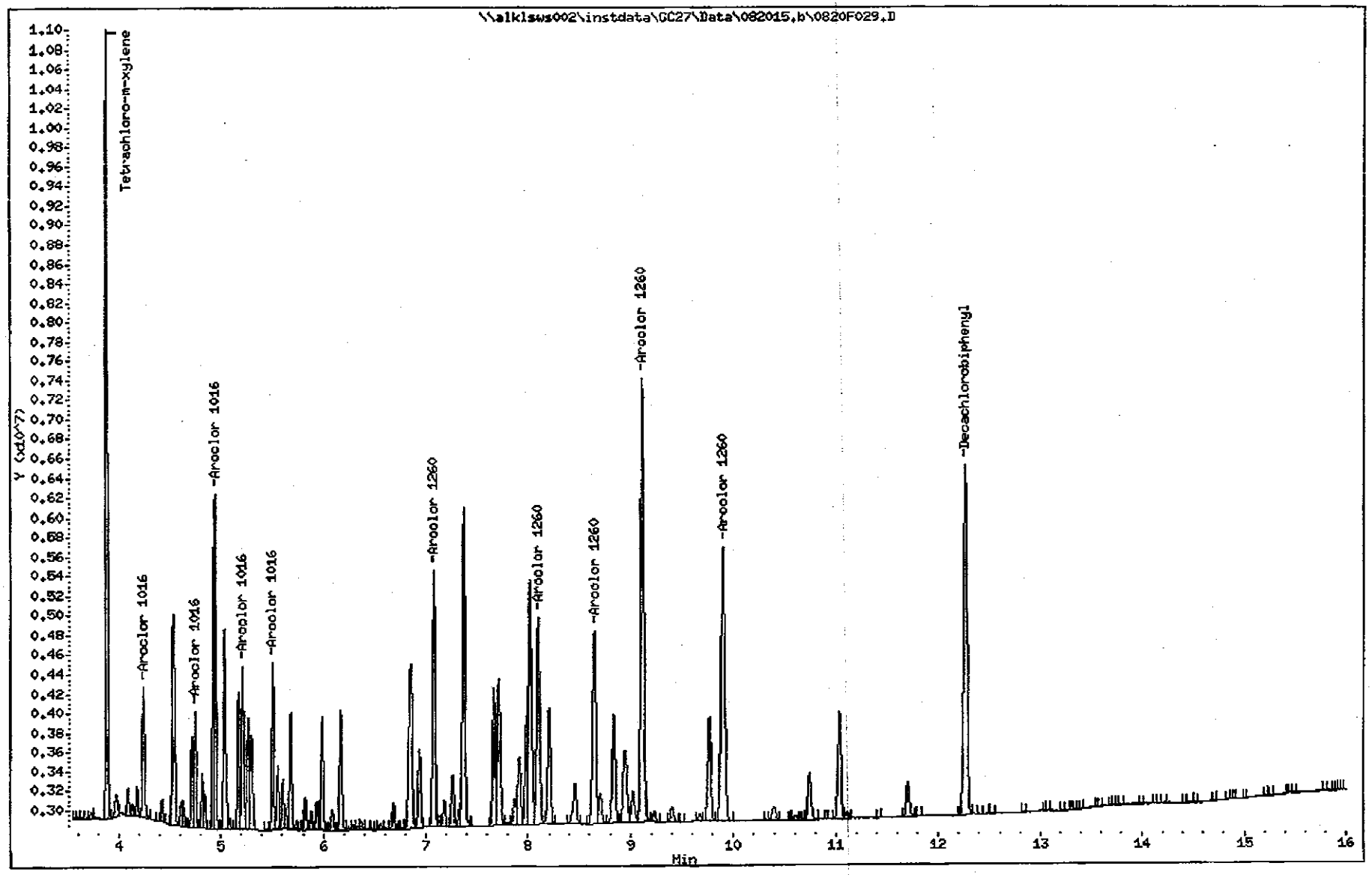
Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F029.D
Date : 20-AUG-2015 21:41
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



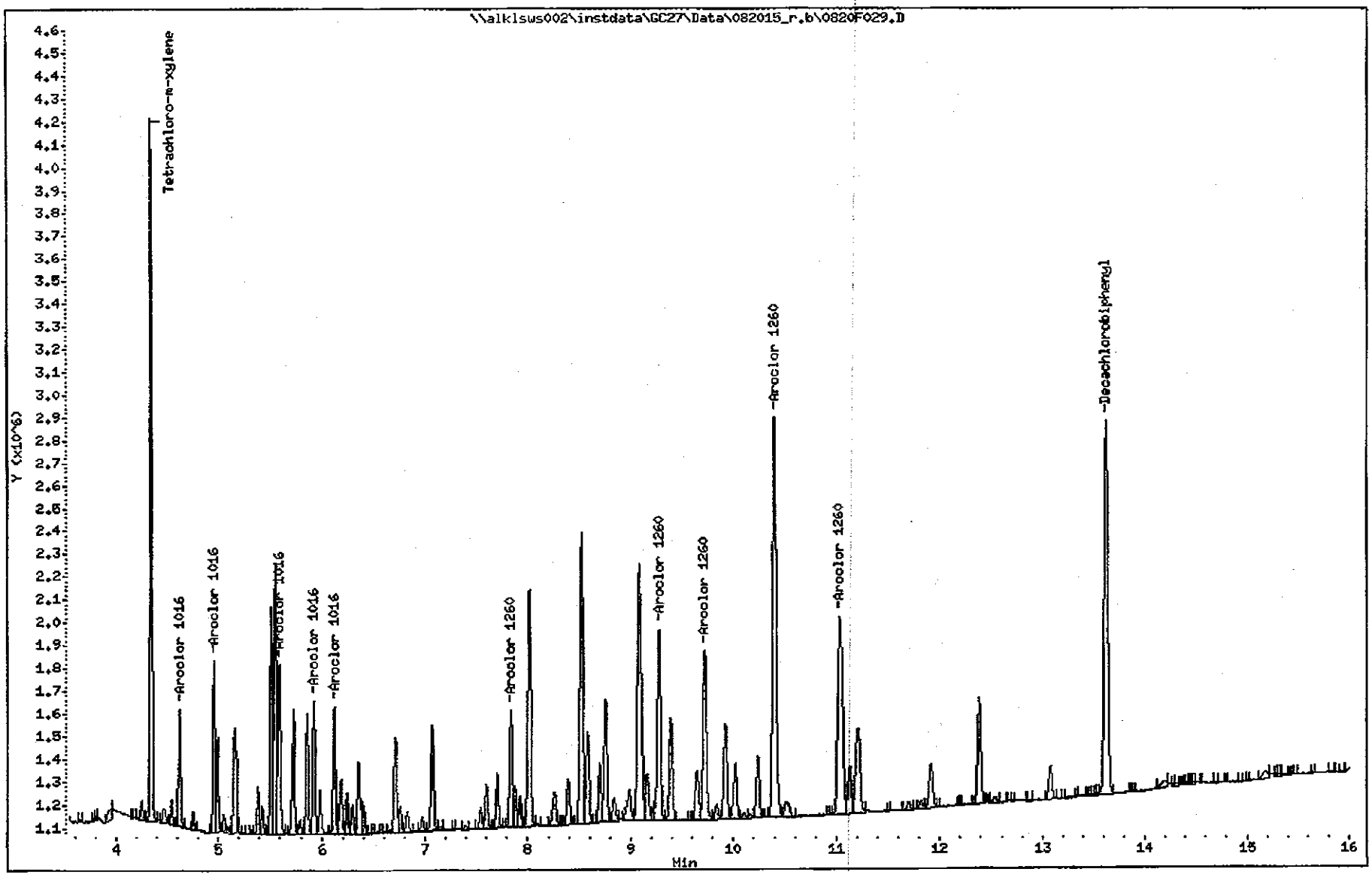
Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F029.D
Date : 20-AUG-2015 21:41
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\0820F030.D
Lab ID: KWG1508035-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 22:05
Date Quantitated: 08/25/2015 14:07
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ347

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV dC

Primary Review: mm 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 15:42:31
u:\Stealth\Crystal.rpt\excepf2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082015_R.B\0820F030.D
Lab ID: KWG1508035-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/20/2015 22:05
Date Quantitated: 08/25/2015 14:08
Batch ID: KWG1508035
Analysis Method: 8082A
MethodJoinID: MJ347

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	FCV ok
	Aroclor 1260	22.7	NA	20	FCV Dup

Primary Review: MK 08/25/15

Secondary Review:

Printed: 08/25/2015 15:42:36
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082015.B\0820F030.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F030.D			**Vial:**	99
Acqu Date:	08/20/2015 22:05	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508035-12				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508035	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88		28582	0	0.1610	0.0000				NA
			%Recovery =		NA	NA	Limits =	10-135		
Decachlorobiphenyl	12.27	13.64	27876	13390	0.1760	0.1630				NA
			%Recovery =		NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0d	0.0000	0.0000			
Aroclor 1232 {2}			0	0d	0.0000	0.0000			
Aroclor 1232 {3}			0	0d	0.0000	0.0000			
Aroclor 1232 {4}			0	0d	0.0000	0.0000			
Aroclor 1232 {5}			0	0d	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082015.B\0820F030.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082015_r.b\0820F030.D			**Vial:**	99
Acqu Date:	08/20/2015 22:05	**Quant Date:**	08/25/2015 14:07	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508035-12				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}			0d	0	0.0000	0.0000			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}			0d	0	0.0000	0.0000			
Aroclor 1248 {5}			0d	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0d	0.0000	0.0000			
Aroclor 1262 {2}			0d	0d	0.0000	0.0000			
Aroclor 1262 {3}			0d	0d	0.0000	0.0000			
Aroclor 1262 {4}			0d	0d	0.0000	0.0000			
Aroclor 1262 {5}			0d	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F030.D
Report Date: 25-Aug-2015 14:07

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082015.b\0820F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\0820F030.D
Inj Date : 20-AUG-2015 22:05
Sample Info: IB
Misc Info :
Cal Date : 21-AUG-2015 13:21
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	0.000	28582	0	0.161	0.000		100.00
Decachlorobiphenyl	12.268	13.635	27876	13390	0.176	0.163		100.00

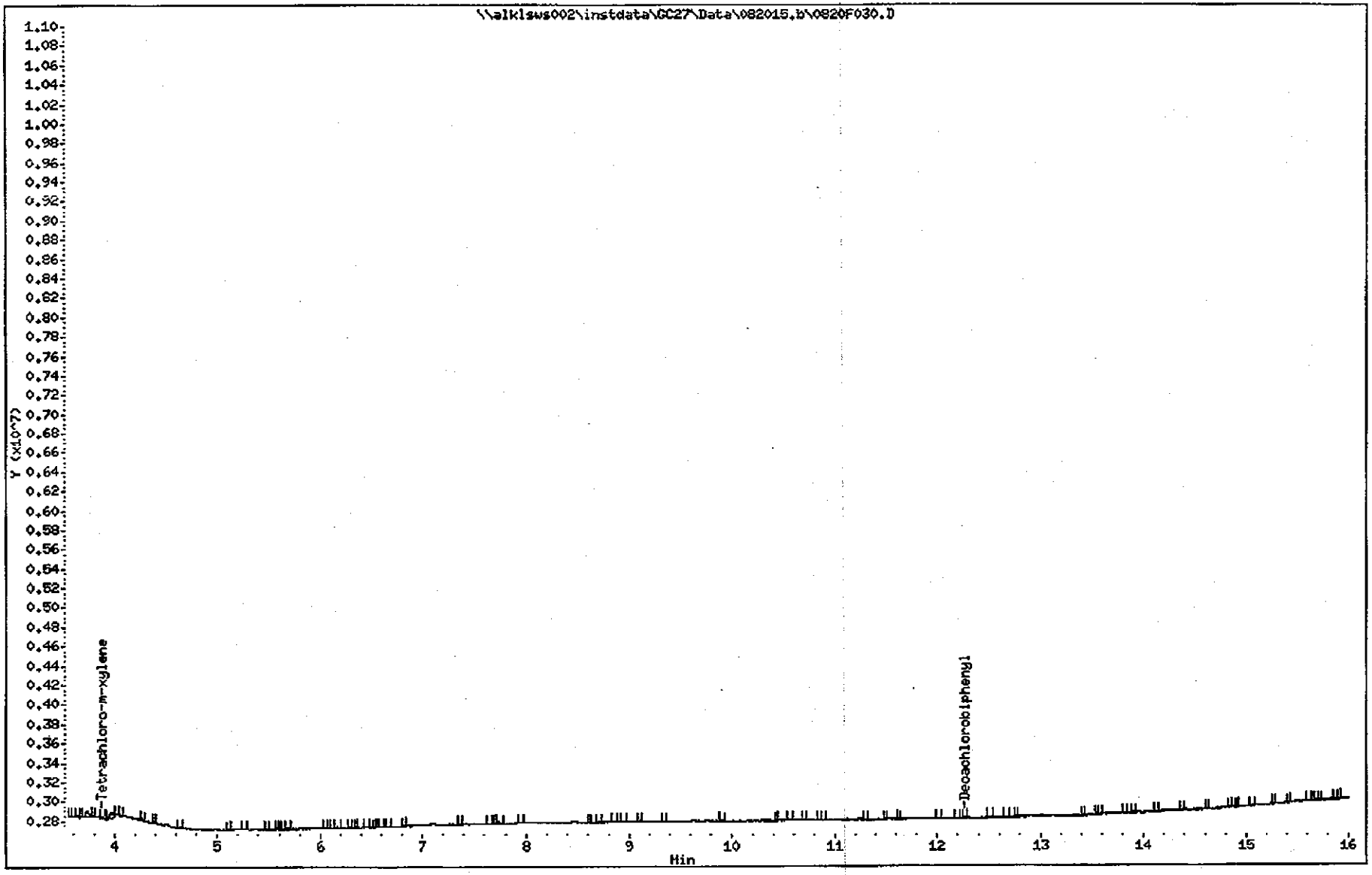
Data File: \\alklsws002\instdata\GC27\Data\082015.b\0820F030.D
Date : 20-AUG-2015 22:05
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32



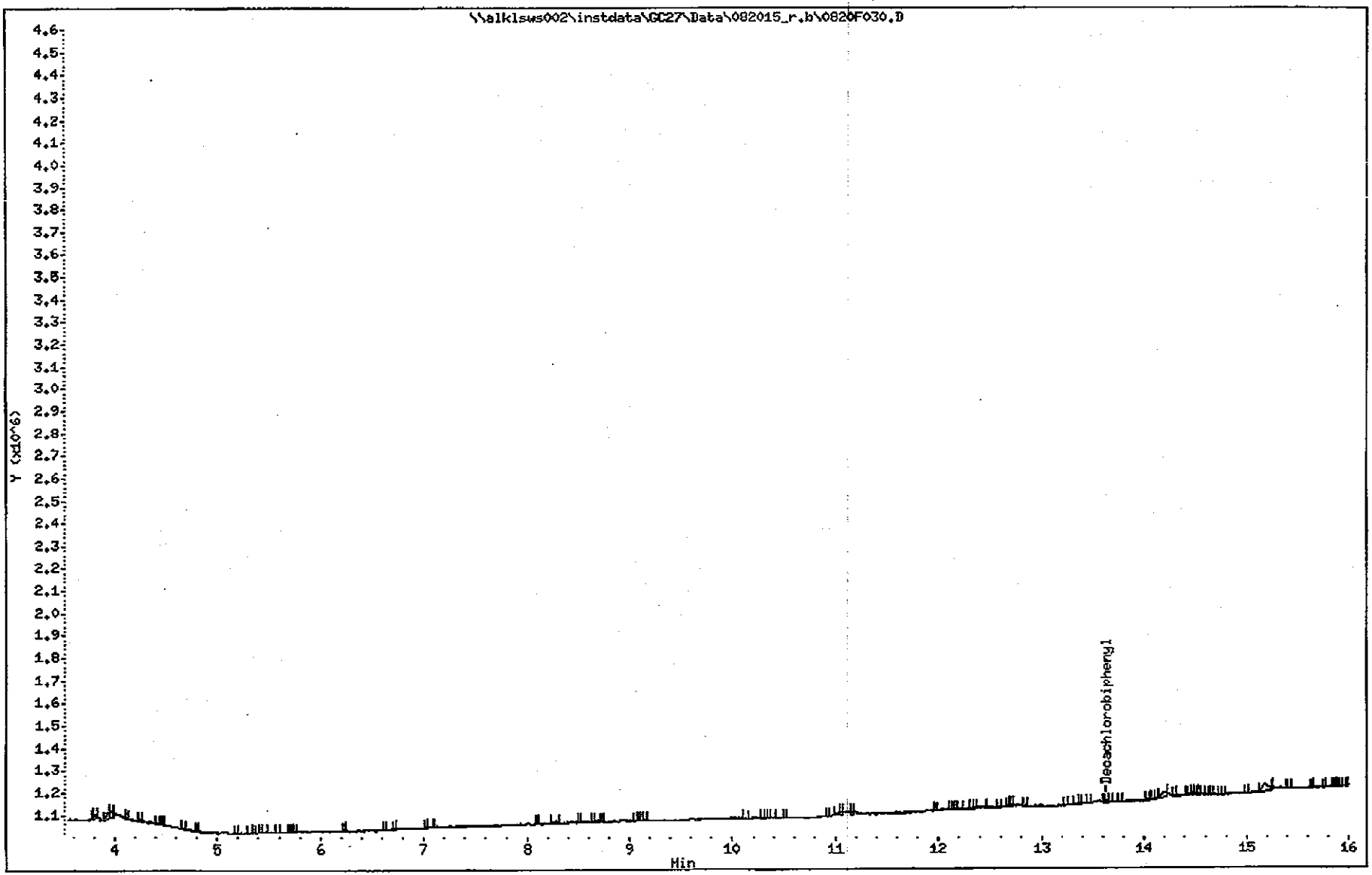
Data File: \\alklsws002\instdata\GC27\Data\082015_r.b\0820F030.D
Date : 20-AUG-2015 22:05
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\082415.S
Comment: PCB Aroclors by EPA 8082A
Operator: MR
Data Path: C:\GC27\DATA\082415\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0824F001	PCB_REG	PRIMER
2	IB	100	0824F002	PCB_REG	PRIMER
3	CCV	1	0824F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	99	0824F004	PCB_REG	IB
5	SMPL	6	0824F005	PCB_REG	K1508690-013
6	SMPL	7	0824F006	PCB_REG	K1508690-014
7	SMPL	8	0824F007	PCB_REG	K1508581-002 10X
8	CCV	1	0824F008	PCB_REG	1660 @ 500ppb PCB6-74E
9	IB	99	0824F009	PCB_REG	IB

Run#459371
Col# 13624
KW6150804

Last Modified: Mon Aug 24 10:42:15 2015

Page: 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F003.D
Lab ID: KWG1508004-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 10:03
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV OK

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 09:24:04
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F003.D
Lab ID: KWG1508004-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 10:03
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JCU Dual

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 09:24:09
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082415.B\0824F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F003.D			**Vial:**	1
Acqu Date:	08/24/2015 10:03	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508004	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9627645	3524814	54.39	44.81				NA
				%Recovery =	NA		NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.62	8169137	4027436	51.66	48.91				NA
				%Recovery =	NA		NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	467.13	404.77			
Aroclor 1016 {1}	4.24	4.62	1732340	766160	482.68	416.82			
Aroclor 1016 {2}	4.74	4.95	1480023	980687	493.99	402.82			
Aroclor 1016 {3}	4.94	5.59	4370314	1215270	441.84	405.19			
Aroclor 1016 {4}	5.21	5.92	2304499	880508	464.50	401.14			
Aroclor 1016 {5}	5.50	6.12	2343040	857879	452.64	397.90			
Aroclor 1260			0	0	485.24	477.66			
Aroclor 1260 {1}	7.08	7.83	4523371	988806	459.20	448.26			
Aroclor 1260 {2}	8.09	9.27	3961244	1796936	488.21	475.40			
Aroclor 1260 {3}	8.65	9.72	4047079	1720531	491.69	476.76			
Aroclor 1260 {4}	9.11	10.39	9174288	4144472	488.03	479.99			
Aroclor 1260 {5}	9.89	11.03	7080361	2836720	499.09	507.89			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F003.D
Report Date: 25-Aug-2015 09:01

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082415.b\0824F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\0824F003.D
Inj Date : 24-AUG-2015 10:03
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 24-AUG-2015 15:40
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082415.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.336	9627645	3524814	54.4	44.8		100.00
Aroclor 1016	4.239	4.620	1732340	766160	483	417	80.00- 120.00	100.00
	4.743	4.953	1480023	980687	494	403	65.97- 98.96	85.43
	4.936	5.590	4370314	1215270	442	405	326.04- 489.06	252.28
	5.209	5.920	2304499	880508	464	401	103.64- 155.47	133.03
	5.499	6.116	2343040	857879	453	398	107.35- 161.02	135.25
		Average of Peak Amounts =			467	405		
Aroclor 1260	7.076	7.833	4523371	988806	459	448	80.00- 120.00	100.00
	8.093	9.266	3961244	1796936	488	475	70.82- 106.24	87.57
	8.646	9.716	4047079	1720531	492	477	71.90- 107.84	89.47
	9.109	10.393	9174288	4144472	488	480	163.93- 245.89	202.82
	9.893	11.030	7080361	2836720	499	508	127.56- 191.34	156.53
		Average of Peak Amounts =			485	478		
Decachlorobiphenyl	12.263	13.623	8169137	4027436	51.7	48.9		100.00

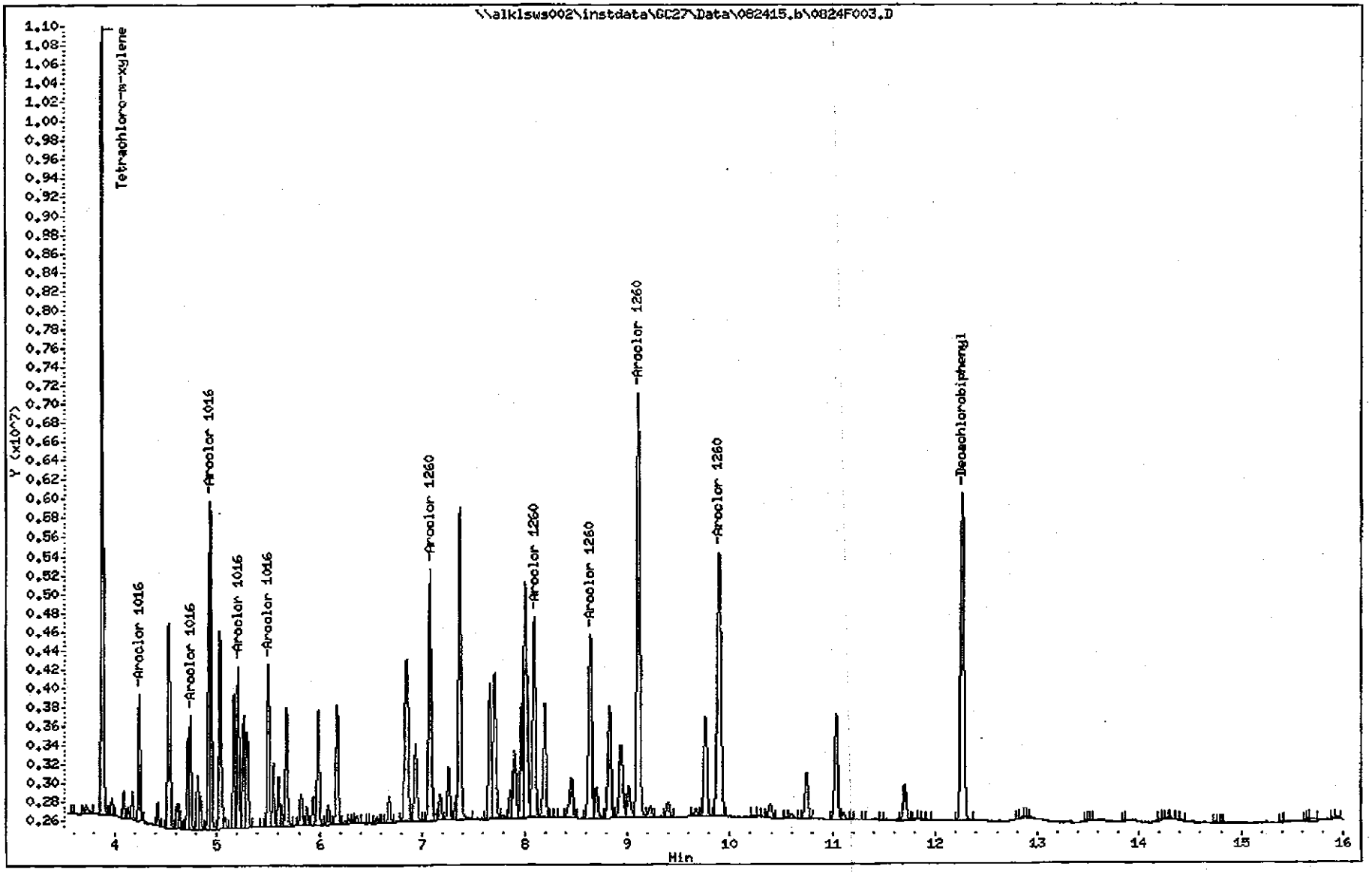
Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F003.D
Date : 24-AUG-2015 10:03
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-36MS

Column diameter: 0.32



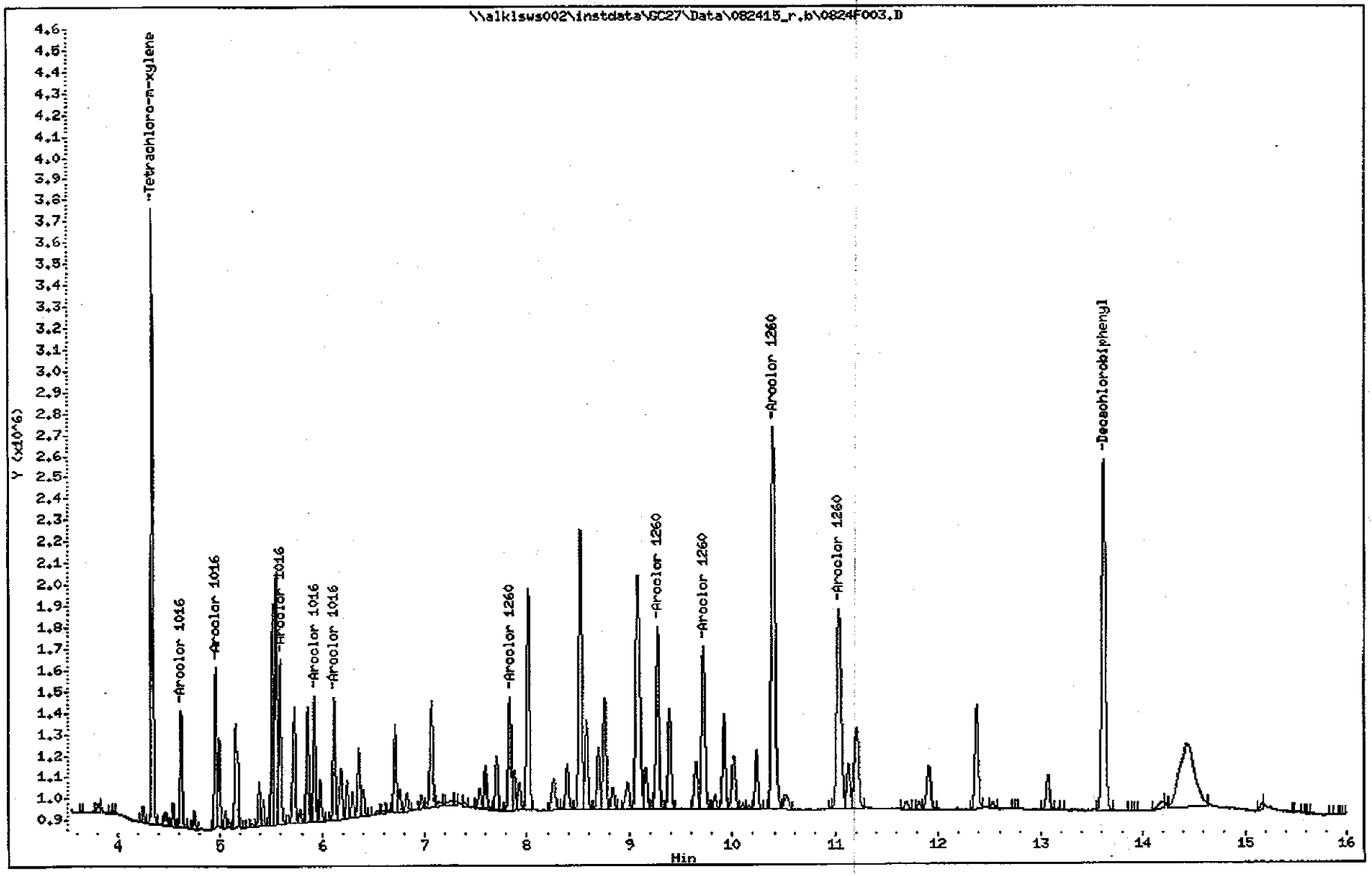
Data File: \\alklsws002\instdata\GC27\Data\082415_r.b\0824F003.D
Date : 24-AUG-2015 10:03
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F004.D
Lab ID: KWG1508004-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 10:27
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JOU ok

Primary Review: MR 08/25/15

Secondary Review: MM

Printed: 08/25/2015 09:24:13
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F004.D
Lab ID: KWG1508004-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 10:27
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TOV dx
	Aroclor 1260	22.7	NA	20	TOV Qual

Primary Review: MK 08/25/15

Secondary Review:

Printed: 08/25/2015 09:24:17
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082415.B\0824F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F004.D			**Vial:**	99
Acqu Date:	08/24/2015 10:27	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508004	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27		32171	0	0.2030	0.0000			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082415.B\0824F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F004.D			**Vial:**	99
Acqu Date:	08/24/2015 10:27	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0d	0.0000	0.0000			
Aroclor 1268 {2}			0	0d	0.0000	0.0000			
Aroclor 1268 {3}			0	0d	0.0000	0.0000			
Aroclor 1268 {4}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F004.D
Report Date: 25-Aug-2015 09:01

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082415.b\0824F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\0824F004.D
Inj Date : 24-AUG-2015 10:27
Sample Info: IB
Misc Info :
Cal Date : 24-AUG-2015 15:40
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082415.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.271	0.000	32171	0	0.203	0.000	.	100.00

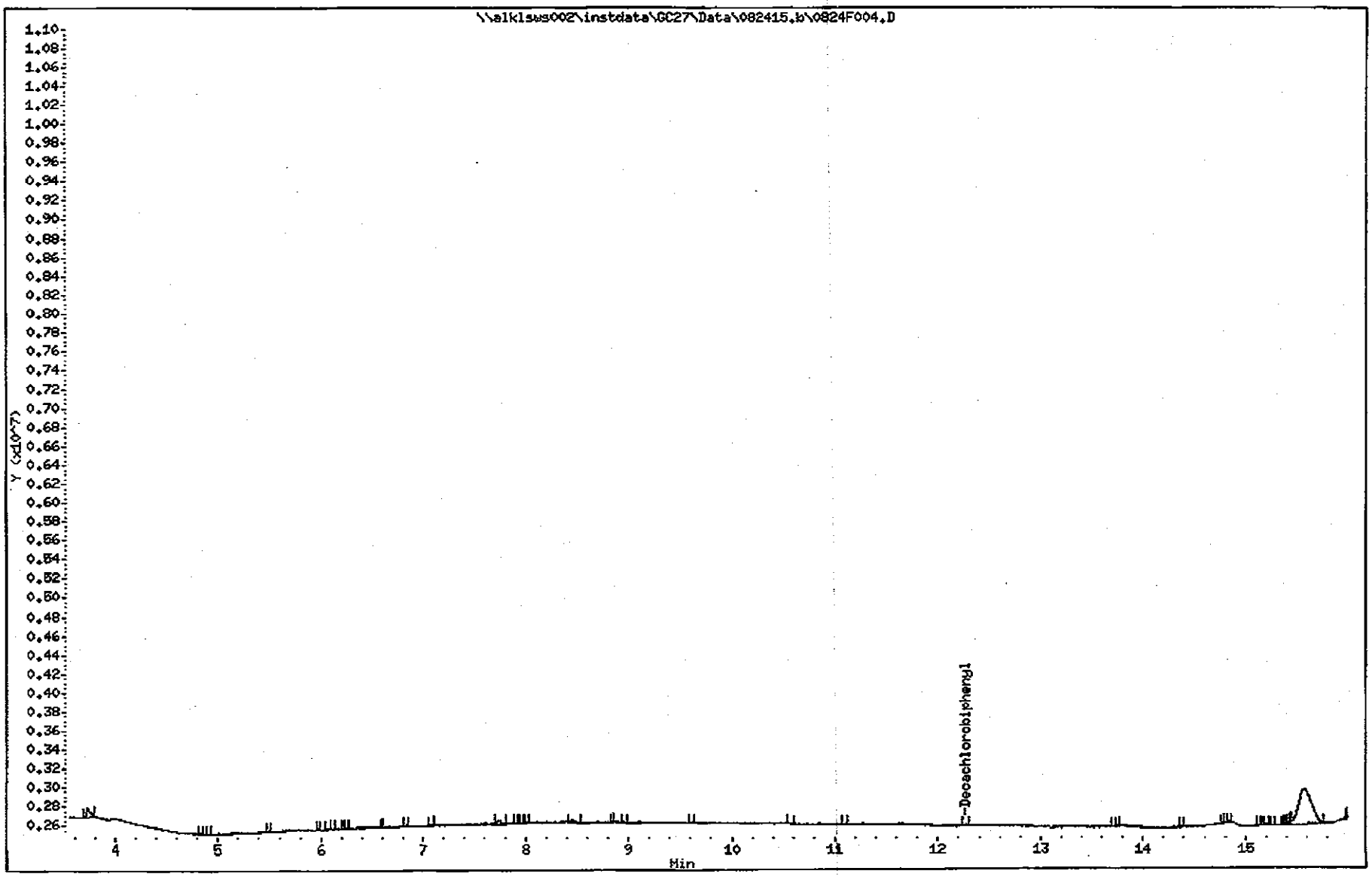
Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F004.D
Date : 24-AUG-2015 10:27
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



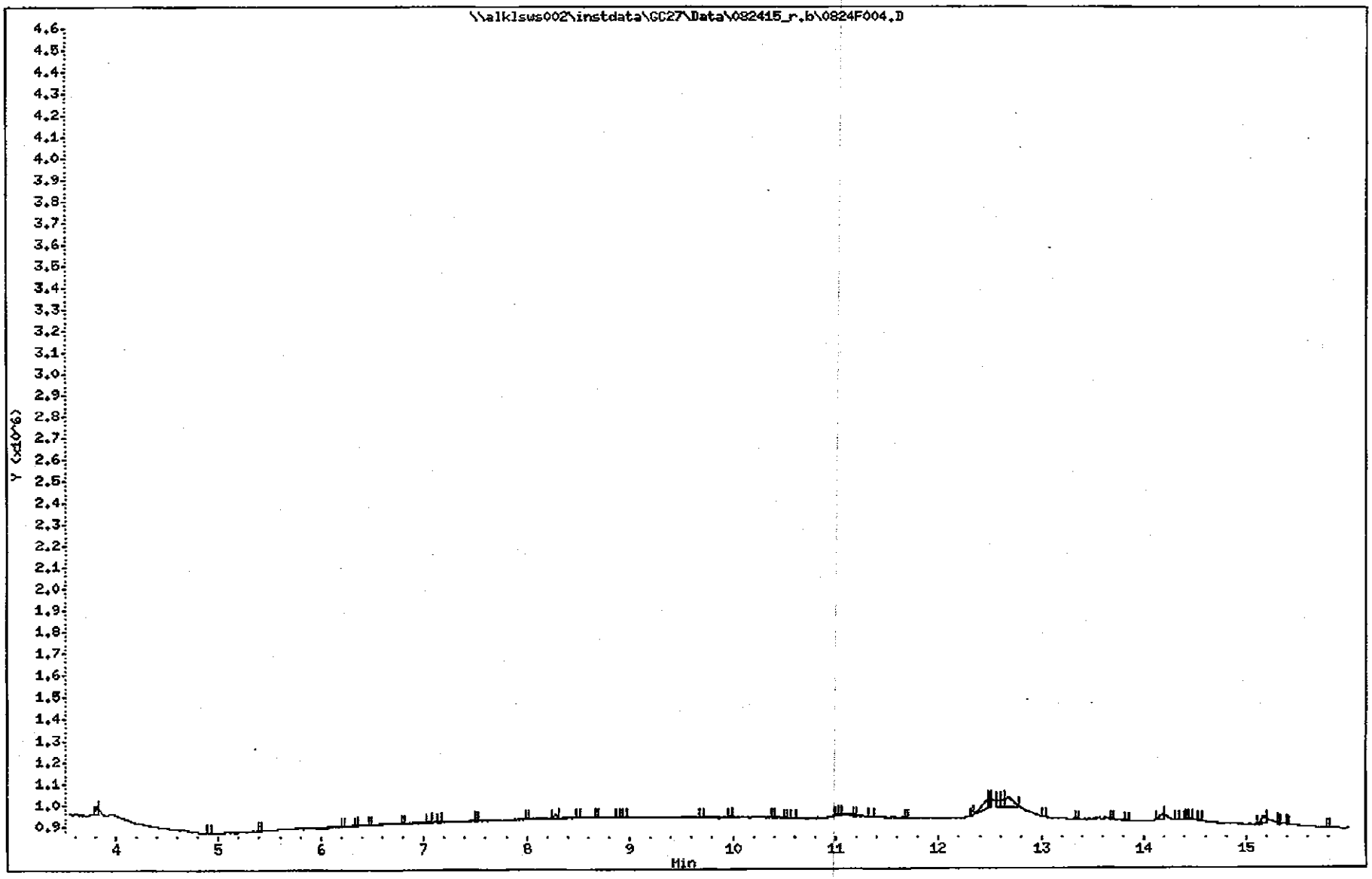
Data File: \\alklsws002\instdata\GC27\Data\082415_r.b\0824F004.D
Date : 24-AUG-2015 10:27
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F008.D
Lab ID: KWG1508004-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 12:01
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	TCU Dual

Primary Review: MR 08/25/15

Secondary Review: [illegible]

Printed: 08/25/2015 09:24:50
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F008.D
Lab ID: KWG1508004-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 12:01
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV

Primary Review: 08/25/15

Secondary Review:

Printed: 08/25/2015 09:24:46
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082415.B\0824F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F008.D			**Vial:**	1
Acqu Date:	08/24/2015 12:01	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508004	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9466658	3762805	53.48	47.84			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.62	8156352	4088718	51.58	49.65			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	452.64	418.78			
Aroclor 1016 {1}	4.24	4.62	1697439m	790640	472.96	430.14			
Aroclor 1016 {2}	4.74	4.96	1399775m	1054269	467.20	433.04			
Aroclor 1016 {3}	4.94	5.59	4349857m	1207026	439.78	402.44			
Aroclor 1016 {4}	5.21	5.92	2199116m	911387	443.26	415.21			
Aroclor 1016 {5}	5.50	6.12	2277716m	890612	440.02	413.09			
Aroclor 1260			0	0	479.87	481.46			
Aroclor 1260 {1}	7.08	7.83	4433340	988992	450.06	448.34			
Aroclor 1260 {2}	8.09	9.27	3924816	1837434	483.72	486.11			
Aroclor 1260 {3}	8.65	9.72	3984188	1756963	484.05	486.85			
Aroclor 1260 {4}	9.11	10.39	9084219	4220723	483.24	488.82			
Aroclor 1260 {5}	9.89	11.03	7068934	2776817	498.28	497.16			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
e: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F008.D
Report Date: 25-Aug-2015 09:01

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082415.b\0824F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\0824F008.D
Inj Date : 24-AUG-2015 12:01
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 24-AUG-2015 15:41
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082415.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	9466658	3762805	53.5	47.8		100.00
Aroclor 1016	4.240	4.623	1697439	790640	473	430	80.00- 120.00	100.00(M)
	4.743	4.956	1399775	1054269	467	433	65.97- 98.96	82.46(M)
	4.940	5.590	4349857	1207026	440	402	326.04- 489.06	256.26(M)
	5.210	5.923	2199116	911387	443	415	103.64- 155.47	129.55(M)
	5.503	6.120	2277716	890612	440	413	107.35- 161.02	134.19(M)
		Average of Peak Amounts =			453	419		
Aroclor 1260	7.076	7.833	4433340	988992	450	448	80.00- 120.00	100.00
	8.093	9.270	3924816	1837434	484	486	70.82- 106.24	88.53
	8.646	9.720	3984188	1756963	484	487	71.90- 107.84	89.87
	9.110	10.393	9084219	4220723	483	489	163.93- 245.89	204.91
	9.893	11.030	7068934	2776817	498	497	127.56- 191.34	159.45
		Average of Peak Amounts =			480	481		
Decachlorobiphenyl	12.263	13.623	8156352	4088718	51.6	49.7		100.00

QC Flag Legend

M - Compound response manually integrated.

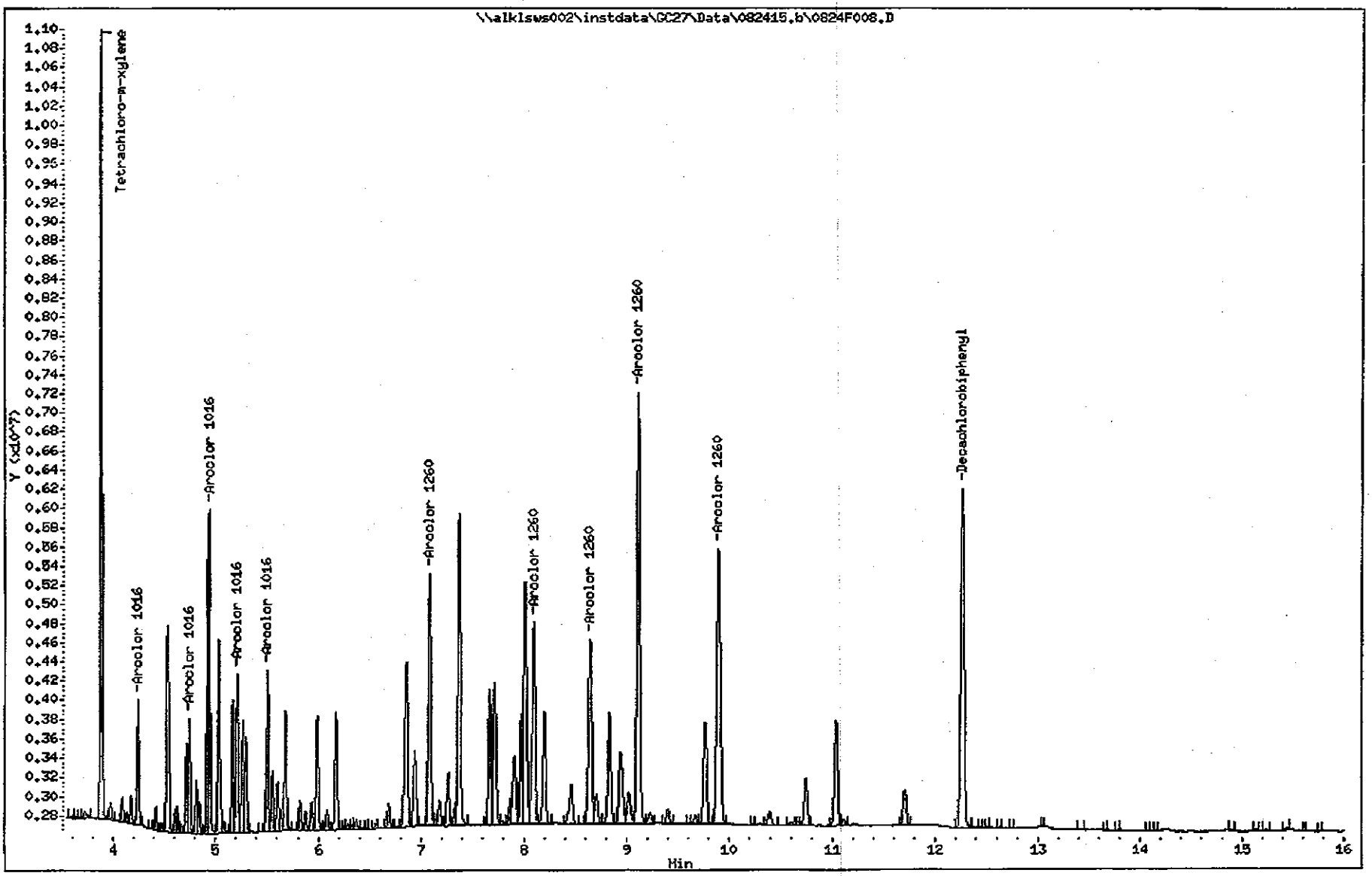
Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F008.D
Date : 24-AUG-2015 12:01
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32



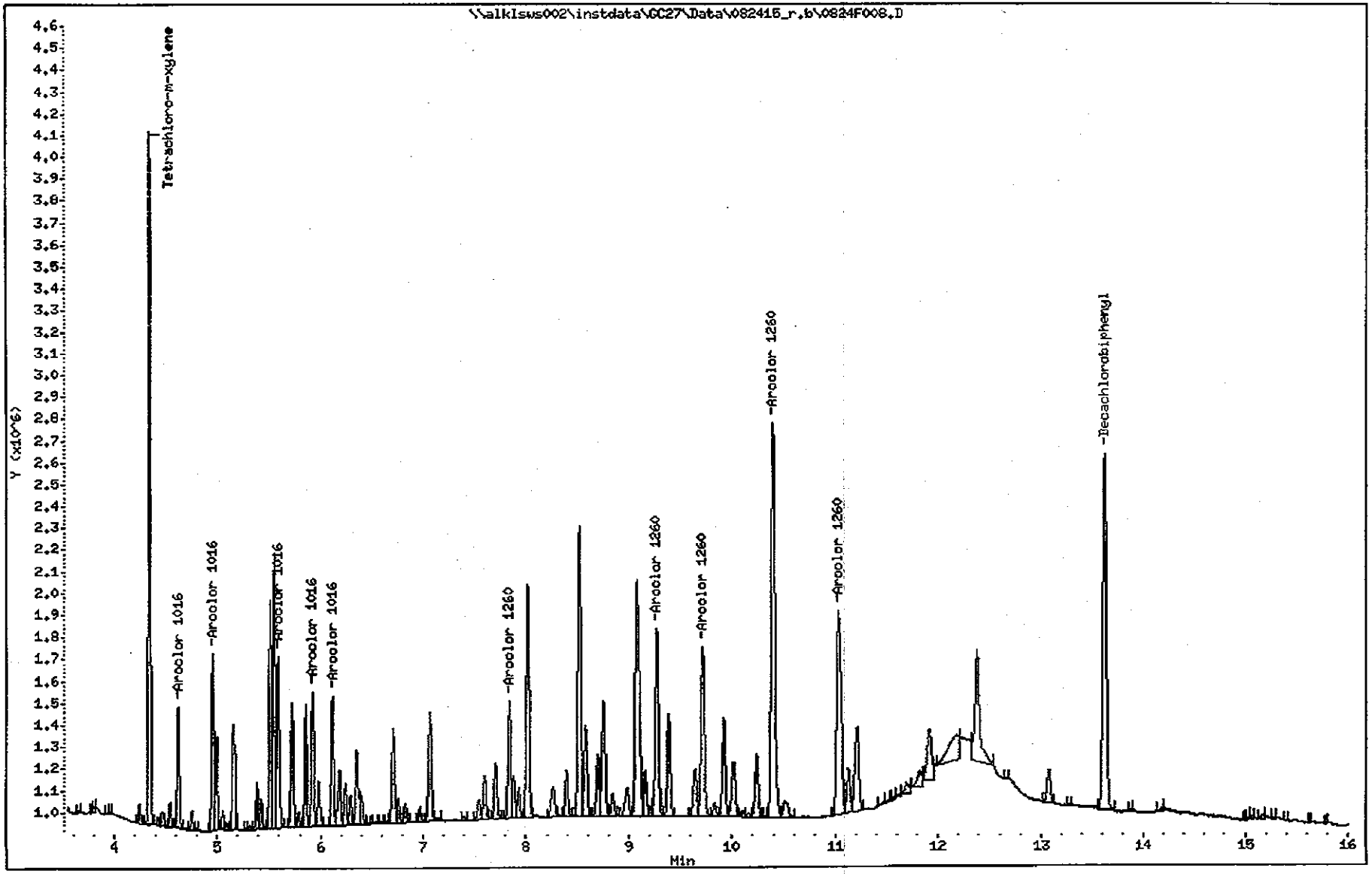
Data File: \\alklsws002\instdata\GC27\Data\082415_r.b\0824F008.D
Date : 24-AUG-2015 12:01
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

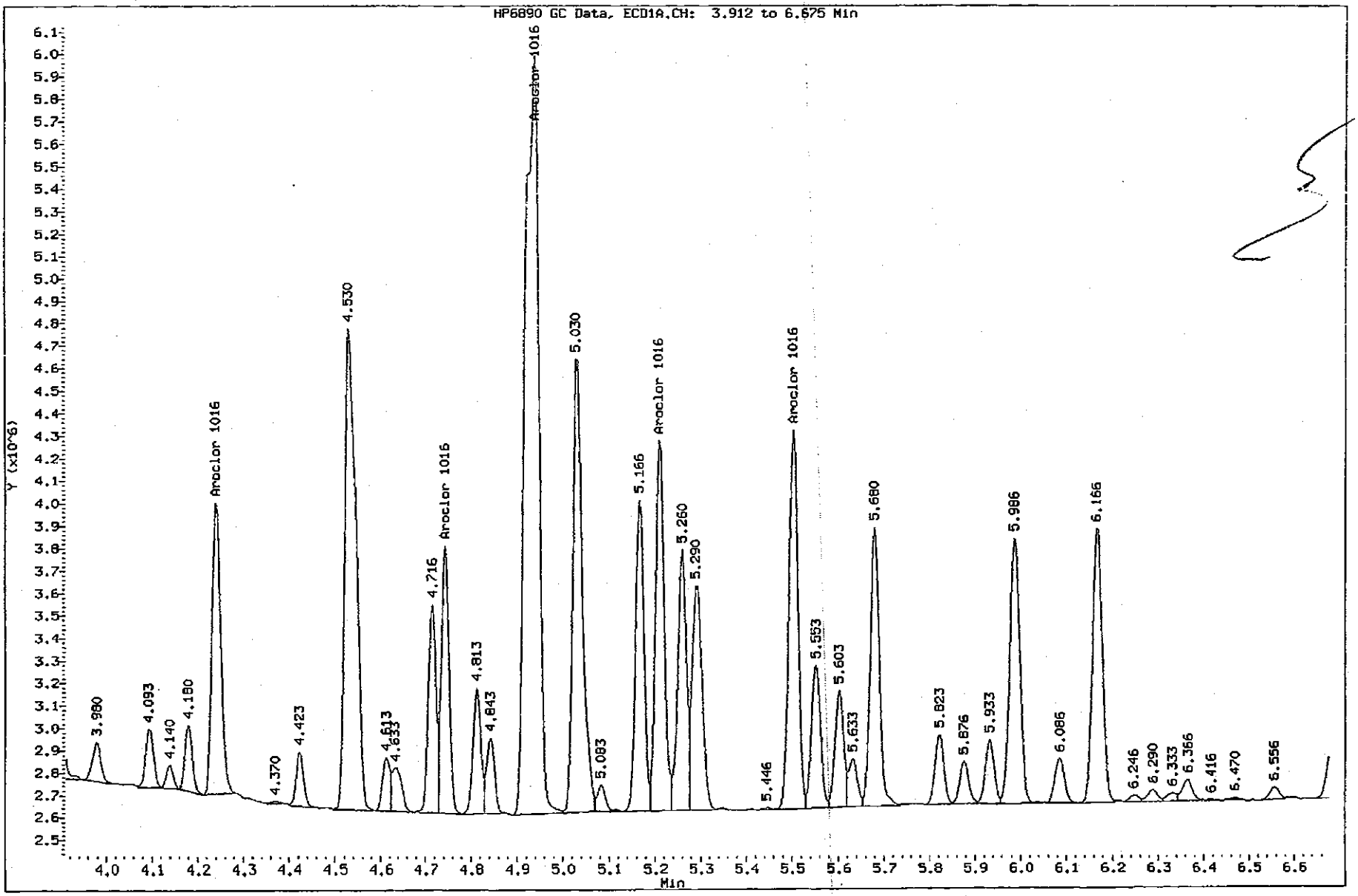
Column phase: DB-XLB

Column diameter: 0.32



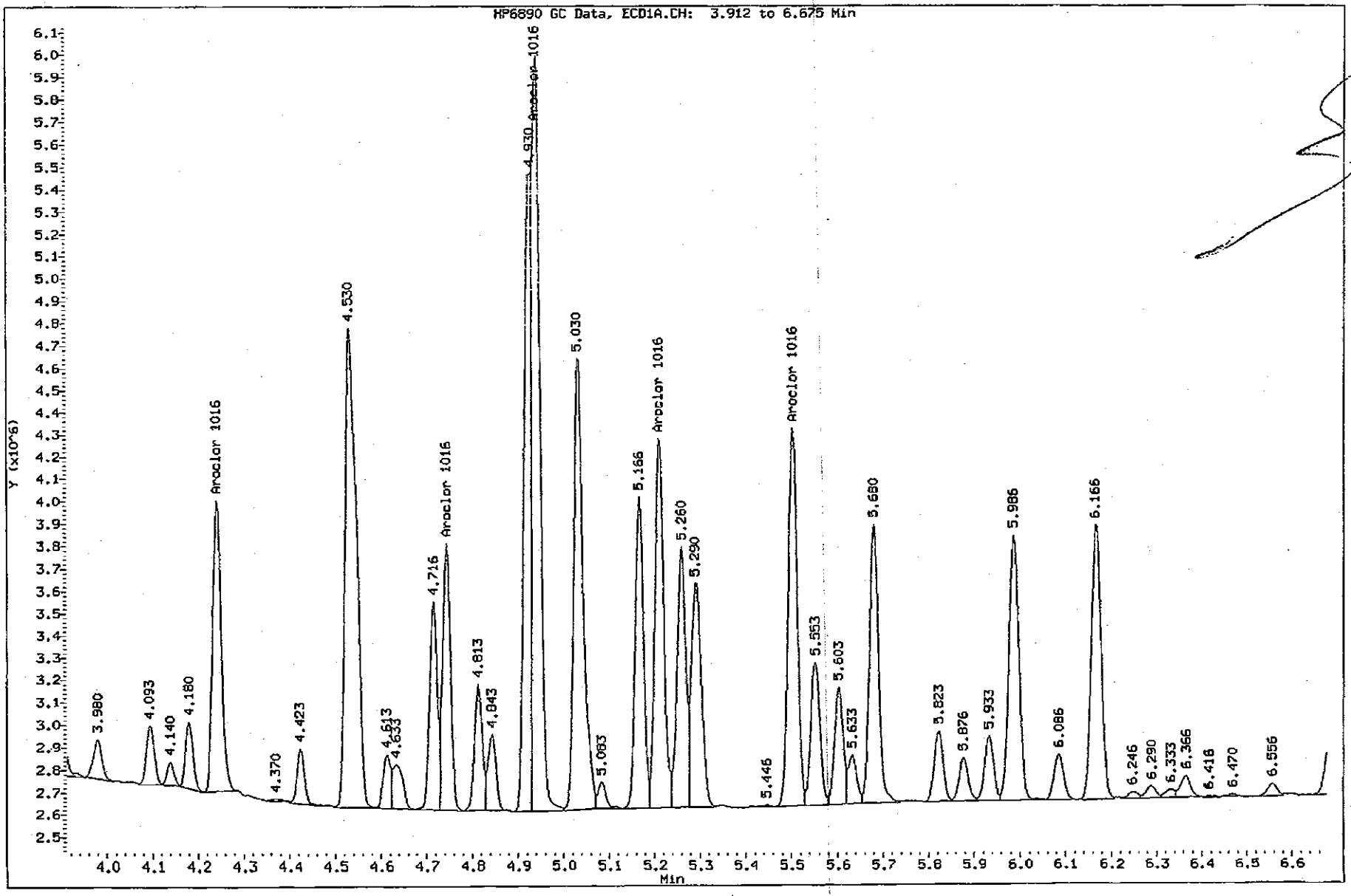
before
MR 08/24/15

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F008.D
Injection Date: 24-AUG-2015 12:01
Instrument: GC27.i
Client Sample ID:



After baseline/shoulder
MR 08/24/15

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F008.D
Injection Date: 24-AUG-2015 12:01
Instrument: GC27.1
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\0824F009.D
Lab ID: KWG1508004-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/24/2015 12:24
Date Quantitated: 08/25/2015 09:01
Batch ID: KWG1508004
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOU ok

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 09:24:55
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415_R.B\0824F009.D	**Date Acquired:**	08/24/2015 12:24
Lab ID:	KWG1508004-4	**Date Quantitated:**	08/25/2015 09:01
RunType:	IB	**Batch ID:**	KWG1508004
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/25/15

Secondary Review: [signature]

Printed: 08/25/2015 09:25:00
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082415.B\0824F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F009.D			**Vial:**	99
Acqu Date:	08/24/2015 12:24	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/25/2015

Analysis Lot:	KWG1508004	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082415.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		12374	0	0.0700	0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00	13.62	0	36038		0.4380			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082415.B\0824F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082415_r.b\0824F009.D			**Vial:**	99
Acqu Date:	08/24/2015 12:24	**Quant Date:**	08/25/2015 09:01	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508004-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F009.D
Report Date: 25-Aug-2015 09:01

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082415.b\0824F009.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\0824F009.D
Inj Date : 24-AUG-2015 12:24
Sample Info: IB
Misc Info :
Cal Date : 24-AUG-2015 15:41
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082415.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082415_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	0.000	12374	0	0.0699	0.000		100.00
Decachlorobiphenyl	0.000	13.616	0	36038	0.000	0.438		

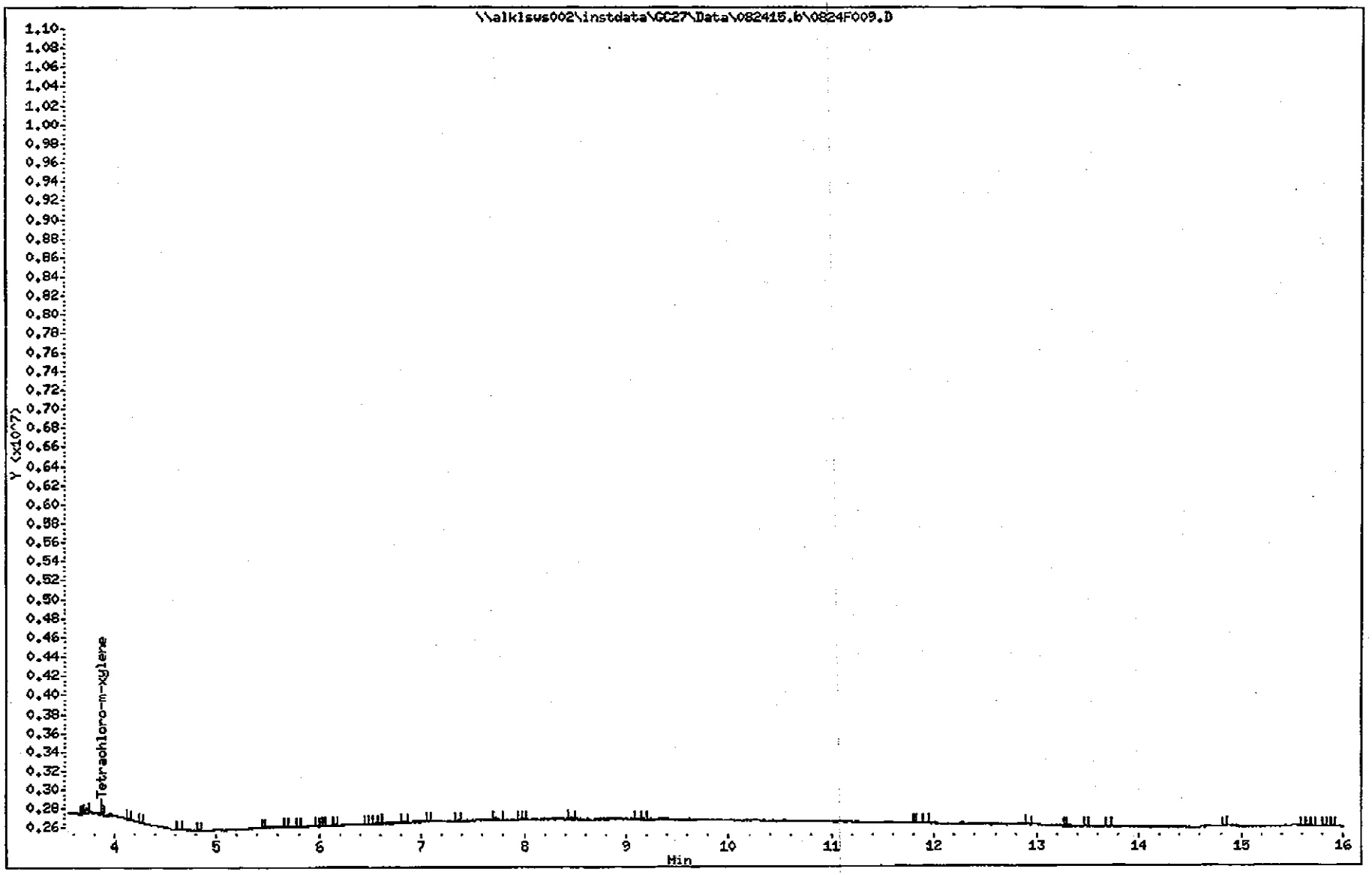
Data File: \\alklsws002\instdata\GC27\Data\082415.b\0824F009.D
Date : 24-AUG-2015 12:24
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



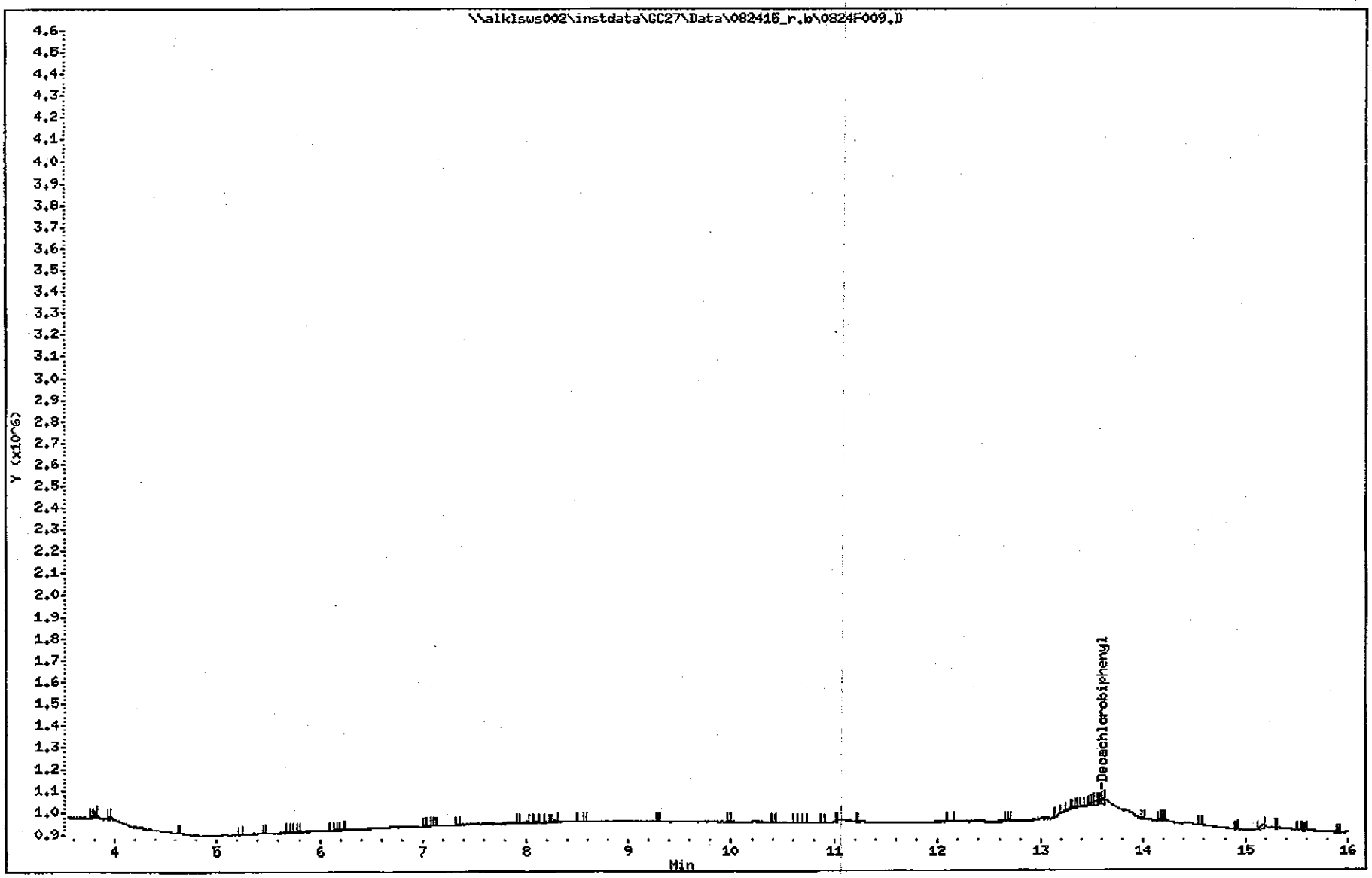
Data File: \\alklsws002\instdata\GC27\Data\082415_r.b\0824F009.D
Date : 24-AUG-2015 12:24
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Injection Log

Directory: J:\GC27\Data\082515.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0825F003.D	1.	1660 @ 500ppb PCB6-74E		08/25/22015 11:51:2
2	99	0825F004.D	1.	IB		08/25/22015 12:14:5
3	6	0825F005.D	1.	KWG1507645-3 LCS		08/25/22015 12:38:2
4	7	0825F006.D	1.	KWG1507646-4 MB		08/25/22015 1:01:5
5	8	0825F007.D	1.	K1508581-001		08/25/22015 1:25:3
6	9	0825F008.D	1.	K1508582-001		08/25/22015 1:49:0
7	10	0825F009.D	1.	K1508582-001 MS	see 5X	08/25/22015 2:12:3
8	11	0825F010.D	1.	K1508582-001 DMS		08/25/22015 2:36:0
9	12	0825F011.D	1.	K1508937-001		08/25/22015 2:59:3
10	13	0825F012.D	1.	K1508937-002		08/25/22015 3:23:0
11	1	0825F013.D	1.	1660 @ 500ppb PCB6-74E	Run# 459897	08/25/22015 3:46:4
12	99	0825F014.D	1.	IB	cal# 13624	08/25/22015 4:10:1
13	14	0825F015.D	1.	KWG1507602-1 LCS	KWG1508064	08/25/22015 4:33:4
14	15	0825F016.D	1.	KWG1507602-2 DLCS		08/25/22015 4:57:2
15	16	0825F017.D	1.	KWG1507602-3 MB		08/25/22015 5:20:5
16	17	0825F018.D	1.	K1508349-004		08/25/22015 5:44:2
17	18	0825F019.D	1.	~~K1508348-011~~ 8438-011		08/25/22015 6:08:0
18	19	0825F020.D	1.	K1508494-001		08/25/22015 6:31:3
19	20	0825F021.D	1.	K1508494-002		08/25/22015 6:55:0
20	21	0825F022.D	1.	K1508494-003		08/25/22015 7:18:4
21	22	0825F023.D	1.	K1508265-001 5X		08/25/22015 7:42:1
22	23	0825F024.D	1.	K1508265-001 MS 5X		08/25/22015 8:05:4
23	24	0825F025.D	1.	K1508265-001 DMS 5X	nR	08/25/22015 8:29:1
24	25	0825F026.D	1.	K1508265-002 5X		08/25/22015 8:52:4
25	1	0825F027.D	1.	1660 @ 500ppb PCB6-74E		08/25/22015 9:16:1
26	99	0825F028.D	1.	IB		08/25/22015 9:39:4

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F003.D
Lab ID: KWG1508064-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 11:51
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOU OK

Primary Review: MP 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:51:32
u:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F003.D
Lab ID: KWG1508064-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 11:51
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	FCV Dual

Primary Review: MC 08/26/15

Secondary Review: _____

Printed: 08/26/2015 09:51:36
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D			**Vial:**	1
Acqu Date:	08/25/2015 11:51	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.26	13.62	8007108	4025064	50.64	48.88				NA
				%Recovery =	NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	449.07	409.10			
Aroclor 1016 {1}	4.24	4.62	1702991m	770841	474.51	419.37			
Aroclor 1016 {2}	4.74	4.95	1395084m	1025985	465.64	421.42			
Aroclor 1016 {3}	4.94	5.59	4325702m	1196785	437.33	399.03			
Aroclor 1016 {4}	5.21	5.92	2164341m	889259	436.25	405.13			
Aroclor 1016 {5}	5.50	6.12	2234236m	863632	431.62	400.57			
Aroclor 1260			0	0	471.91	476.58			
Aroclor 1260 {1}	7.07	7.83	4353262	979437	441.93	444.01			
Aroclor 1260 {2}	8.09	9.27	3844866	1795631	473.87	475.05			
Aroclor 1260 {3}	8.64	9.72	3912800	1729440	475.38	479.23			
Aroclor 1260 {4}	9.11	10.39	8947350	4159444	475.96	481.73			
Aroclor 1260 {5}	9.89	11.03	6985817	2808772	492.42	502.88			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
? Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D
Inj Date : 25-AUG-2015 11:51
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	0.000	4.337	0	3567210	0.000	45.4		
Aroclor 1016	4.237	4.621	1702991	770841	475	419	80.00- 120.00	100.00(M)
	4.741	4.954	1395084	1025985	466	421	68.02- 102.04	81.92(M)
	4.937	5.587	4325702	1196785	437	399	217.78- 326.67	254.01(M)
	5.207	5.921	2164341	889259	436	405	103.05- 154.58	127.09(M)
	5.501	6.117	2234236	863632	432	401	104.78- 157.16	131.19(M)
		Average of Peak Amounts =			449	409		
Aroclor 1260	7.074	7.831	4353262	979437	442	444	80.00- 120.00	100.00
	8.094	9.267	3844866	1795631	474	475	70.16- 105.25	88.32
	8.644	9.717	3912800	1729440	475	479	71.52- 107.28	89.88
	9.107	10.394	8947350	4159444	476	482	162.72- 244.08	205.53
	9.894	11.027	6985817	2808772	492	503	127.86- 191.79	160.47
		Average of Peak Amounts =			472	477		
Decachlorobiphenyl	12.261	13.621	8007108	4025064	50.6	48.9		100.00

QC Flag Legend

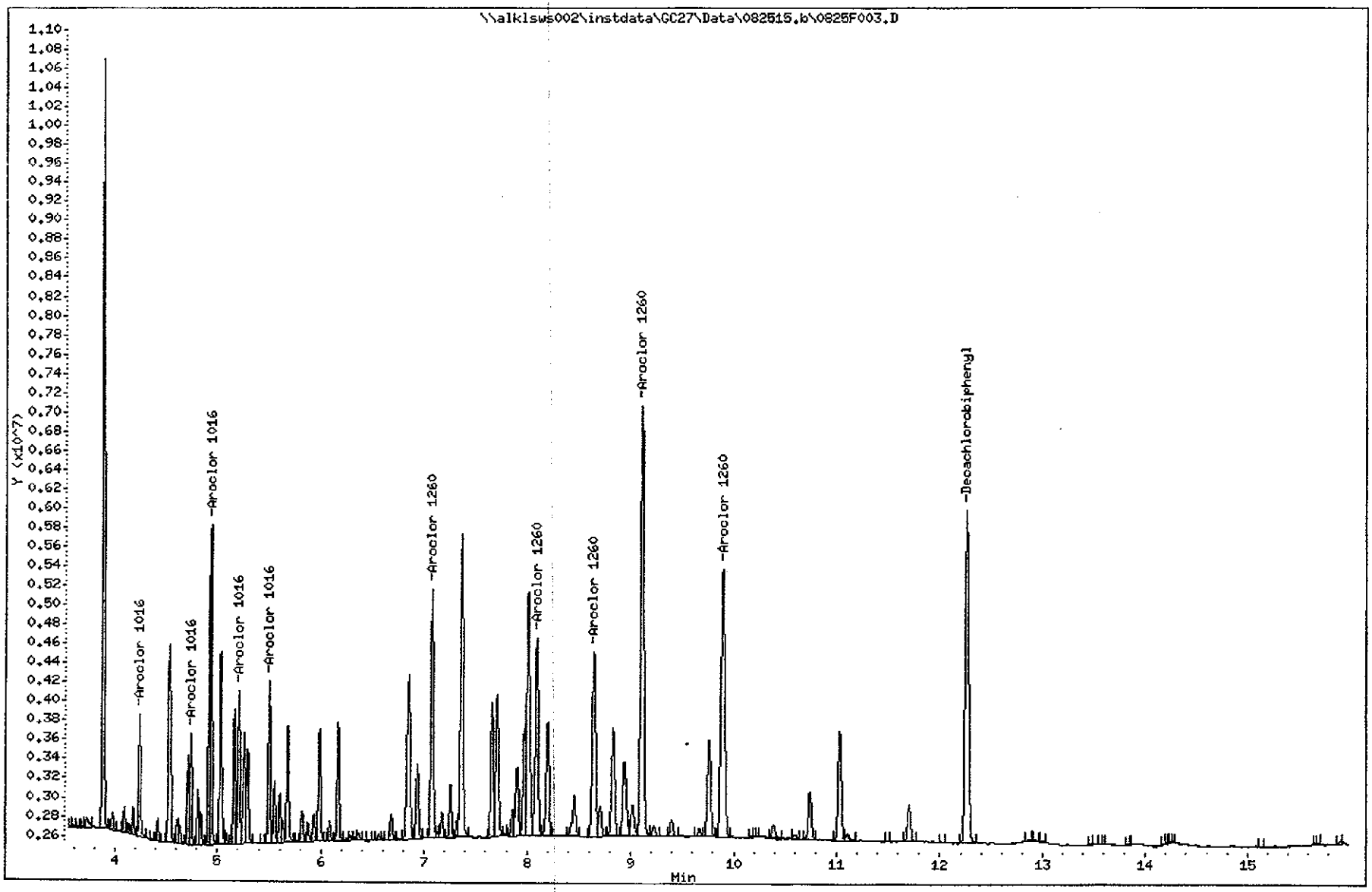
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Date : 25-AUG-2015 11:51
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: HR
Column diameter: 0.32

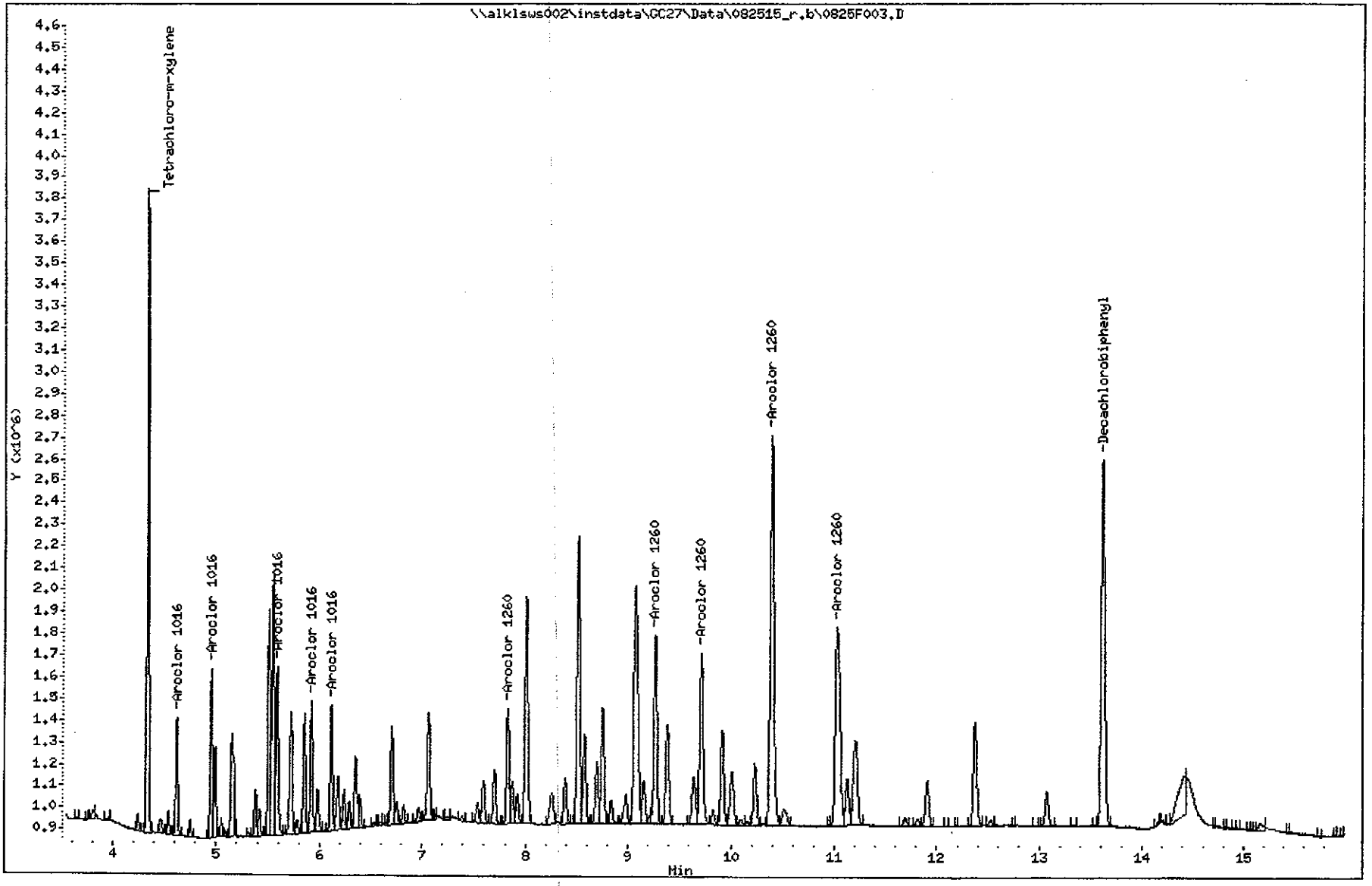


Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F003.D
Date : 25-AUG-2015 11:51
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

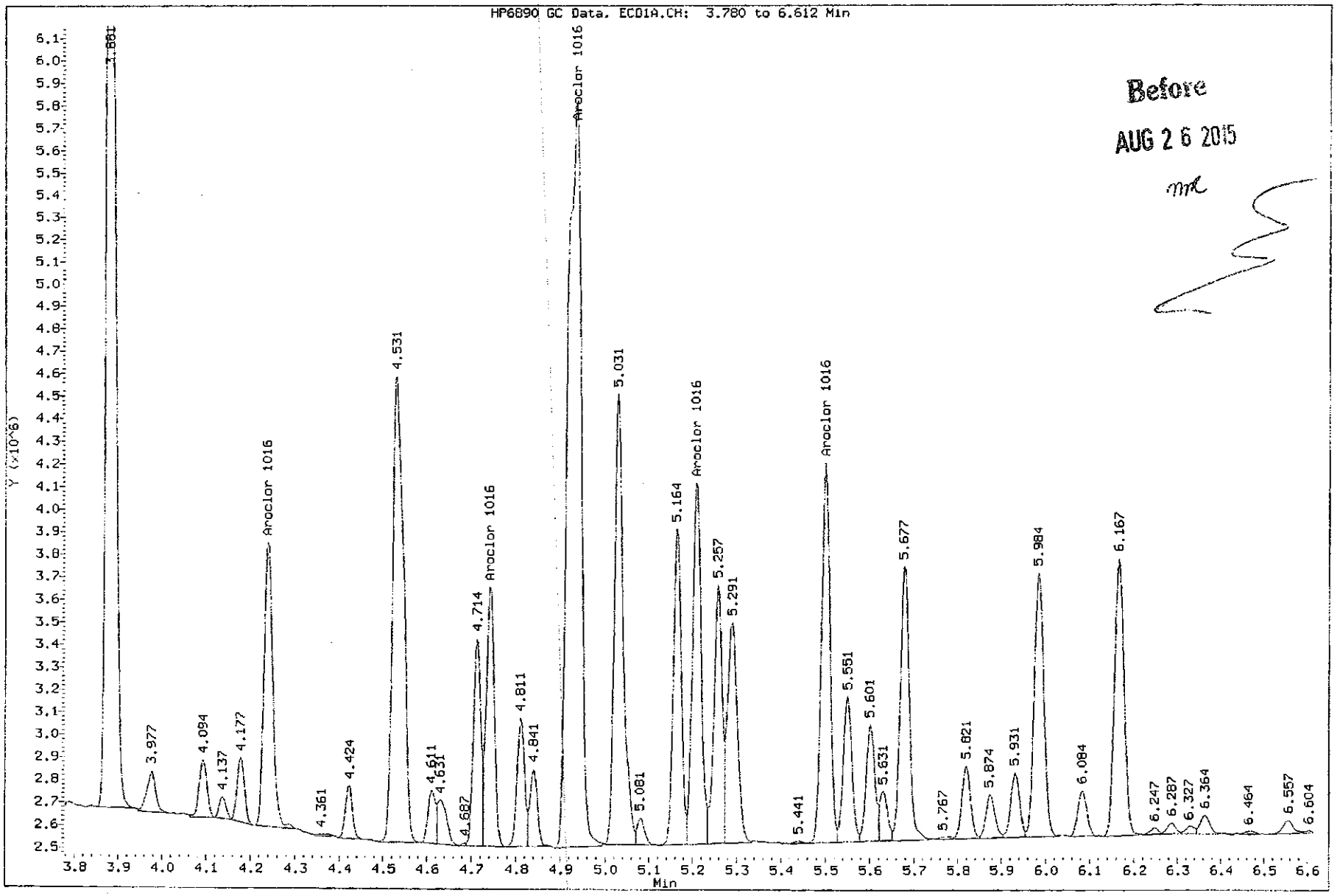
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

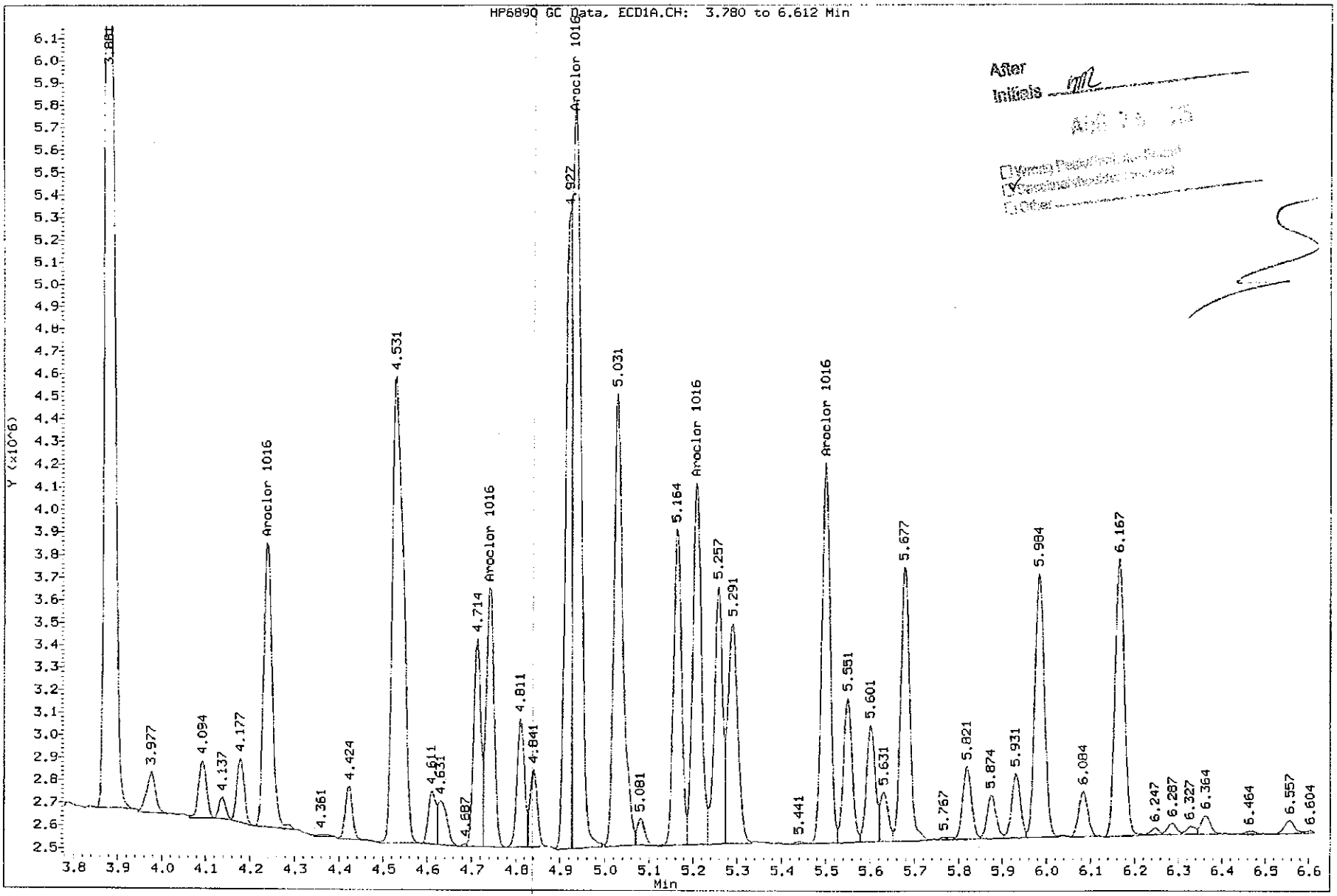


Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Injection Date: 25-AUG-2015 11:51
Instrument: GC27.i
Client Sample ID:



Before
AUG 2 6 2015
mc

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F003.D
Injection Date: 25-AUG-2015 11:51
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F004.D
Lab ID: KWG1508064-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 12:14
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: NMR 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:51:41
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F004.D
Lab ID: KWG1508064-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 12:14
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mr 08/26/15

Secondary Review:

Printed: 08/26/2015 09:51:46
u:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D			**Vial:**	99
Acqu Date:	08/25/2015 12:14	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.28	13.62	12801	5026	0.0810	0.0610				NA
			%Recovery =		NA	NA	**Limits =**	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D			**Vial:**	99
Acqu Date:	08/25/2015 12:14	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D
Inj Date : 25-AUG-2015 12:14
Sample Info: IB
Misc Info :
Cal Date : 26-AUG-2015 07:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.277	13.617	12801	5026	0.0810	0.0610		100.00

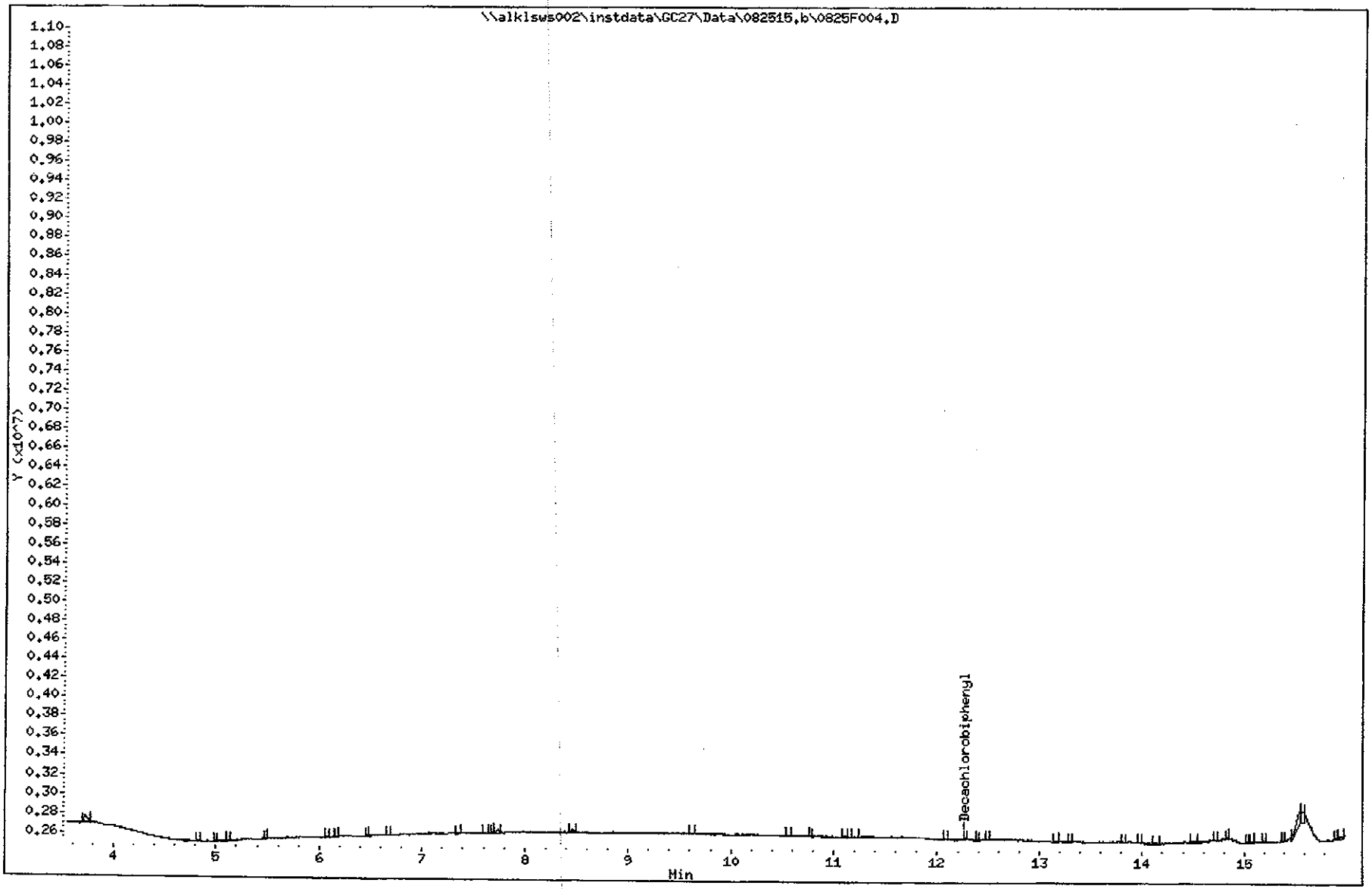
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F004.D
Date : 25-AUG-2015 12:14
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



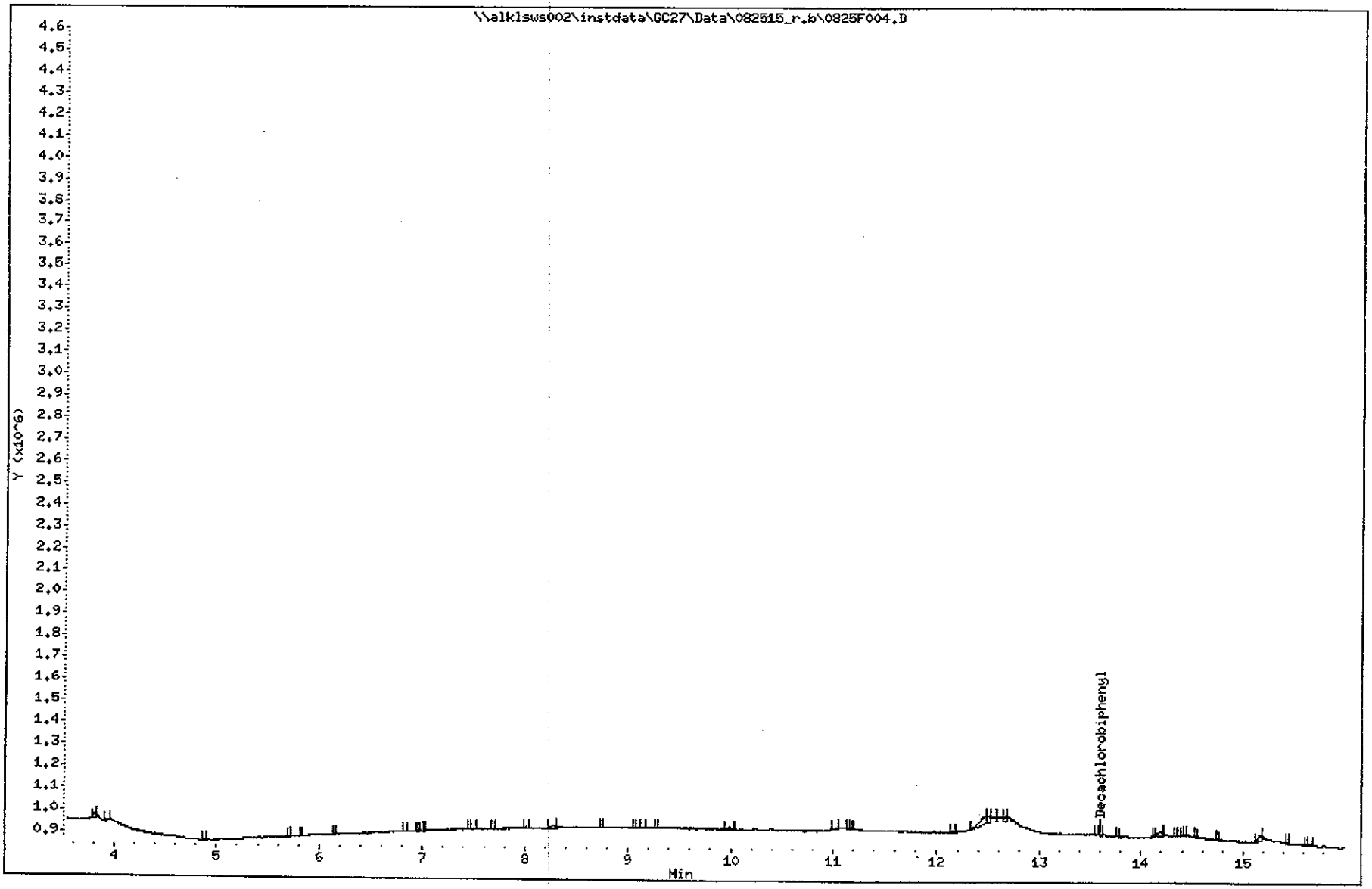
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F004.D
Date : 25-AUG-2015 12:14
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F013.D
Lab ID: KWG1508064-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 15:46
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	Ian ok

Primary Review: MR 05/26/15

Secondary Review:

Printed: 08/26/2015 09:52:27
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F013.D
Lab ID: KWG1508064-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 15:46
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/26/15

Secondary Review: [illegible]

Printed: 08/26/2015 09:52:31
n:\Stealth\Crystal.rpt\except2.rpt

Page 1 of 1

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D			**Vial:**	1
Acqu Date:	08/25/2015 15:46	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.26	13.63	8273973	4077307	52.32	49.51				NA
			%Recovery =		NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	456.24	402.04			
Aroclor 1016 {1}	4.24	4.62	1697395m	745712	472.95	405.70			
Aroclor 1016 {2}	4.74	4.95	1411588m	997182	471.14	409.59			
Aroclor 1016 {3}	4.94	5.59	4315557m	1175804	436.31	392.03			
Aroclor 1016 {4}	5.21	5.92	2241897m	880216	451.88	401.01			
Aroclor 1016 {5}	5.50	6.12	2323838m	866415	448.93	401.86			
Aroclor 1260			0	0	490.82	474.81			
Aroclor 1260 {1}	7.08	7.83	4535218	976200	460.40	442.54			
Aroclor 1260 {2}	8.10	9.27	4005424	1820682	493.65	481.68			
Aroclor 1260 {3}	8.65	9.72	4084357	1716677	496.22	475.69			
Aroclor 1260 {4}	9.11	10.40	9309572	4161232	495.22	481.93			
Aroclor 1260 {5}	9.90	11.03	7215417	2749257	508.61	492.23			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
&: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D			**Vial:**	1
Acqu Date:	08/25/2015 15:46	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9500157	3507373	53.67	44.59			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.63	8273973	4077307	52.32	49.51			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	456.24	402.04			
Aroclor 1016 {1}	4.24	4.62	1697395m	745712	472.95	405.70			
Aroclor 1016 {2}	4.74	4.95	1411588m	997182	471.14	409.59			
Aroclor 1016 {3}	4.94	5.59	4315557m	1175804	436.31	392.03			
Aroclor 1016 {4}	5.21	5.92	2241897m	880216	451.88	401.01			
Aroclor 1016 {5}	5.50	6.12	2323838m	866415	448.93	401.86			
Aroclor 1260			0	0	490.82	474.81			
Aroclor 1260 {1}	7.08	7.83	4535218	976200	460.40	442.54			
Aroclor 1260 {2}	8.10	9.27	4005424	1820682	493.65	481.68			
Aroclor 1260 {3}	8.65	9.72	4084357	1716677	496.22	475.69			
Aroclor 1260 {4}	9.11	10.40	9309572	4161232	495.22	481.93			
Aroclor 1260 {5}	9.90	11.03	7215417	2749257	508.61	492.23			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
k: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D
Inj Date : 25-AUG-2015 15:46
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.341	9500157	3507373	53.7	44.6		100.00
Aroclor 1016	4.241	4.624	1697395	745712	473	406	80.00- 120.00	100.00(M)
	4.744	4.954	1411588	997182	471	410	68.02- 102.04	83.16(M)
	4.941	5.591	4315557	1175804	436	392	217.78- 326.67	254.25(M)
	5.211	5.924	2241897	880216	452	401	103.05- 154.58	132.08(M)
	5.504	6.121	2323838	866415	449	402	104.78- 157.16	136.91(M)
		Average of Peak Amounts =			456	402		
Aroclor 1260	7.081	7.834	4535218	976200	460	443	80.00- 120.00	100.00
	8.097	9.271	4005424	1820682	494	462	70.16- 105.25	88.32
	8.651	9.721	4084357	1716677	496	476	71.52- 107.28	90.06
	9.114	10.398	9309572	4161232	495	482	162.72- 244.08	205.27
	9.897	11.034	7215417	2749257	509	492	127.86- 191.79	159.10
		Average of Peak Amounts =			491	475		
Decachlorobiphenyl	12.264	13.628	8273973	4077307	52.3	49.5		100.00

QC Flag Legend

M - Compound response manually integrated.

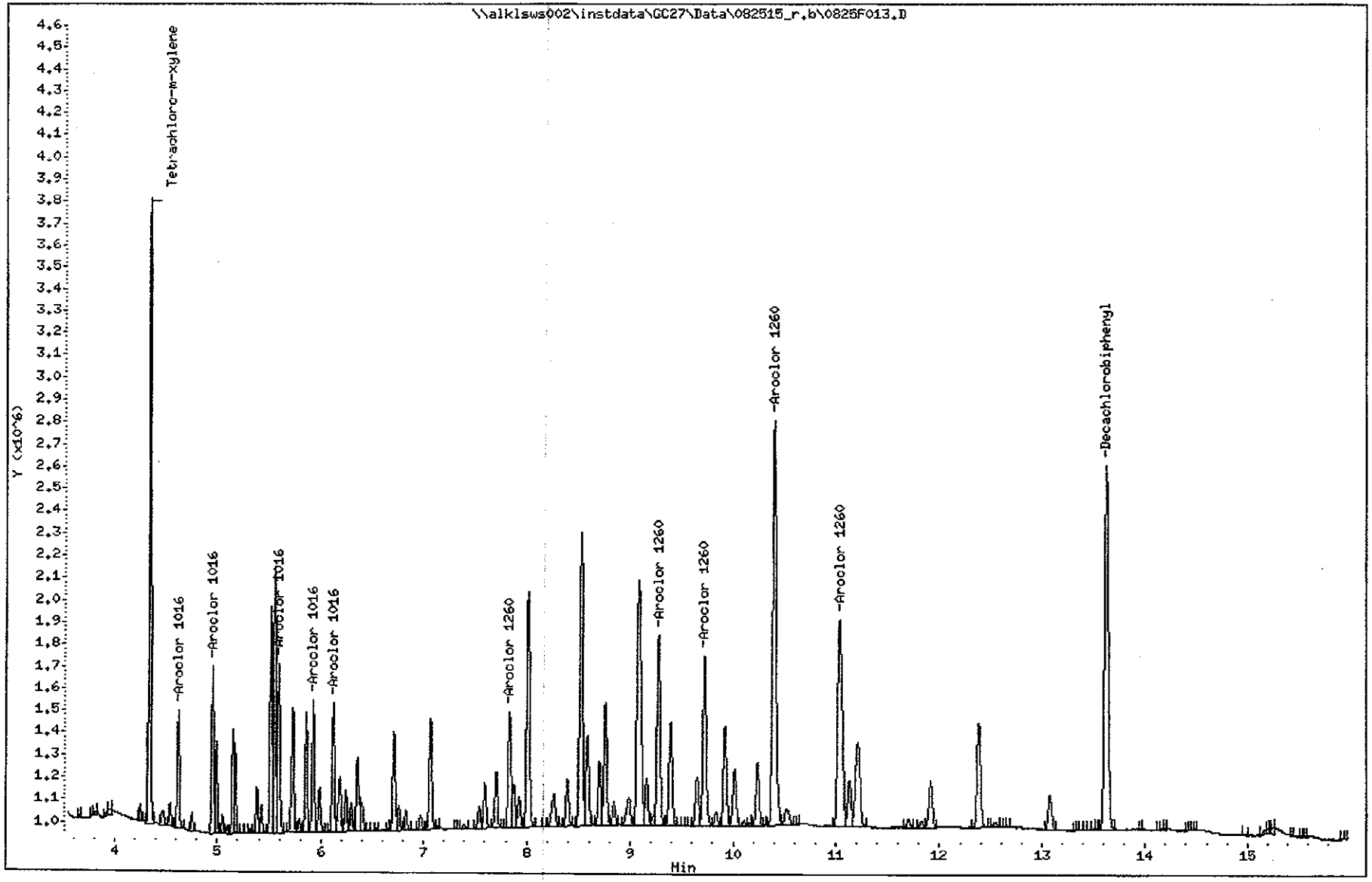
Data File: \\alklsws002\instdata\GC27\Data\082515_r.b\0825F013.D
Date : 25-AUG-2015 15:46
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

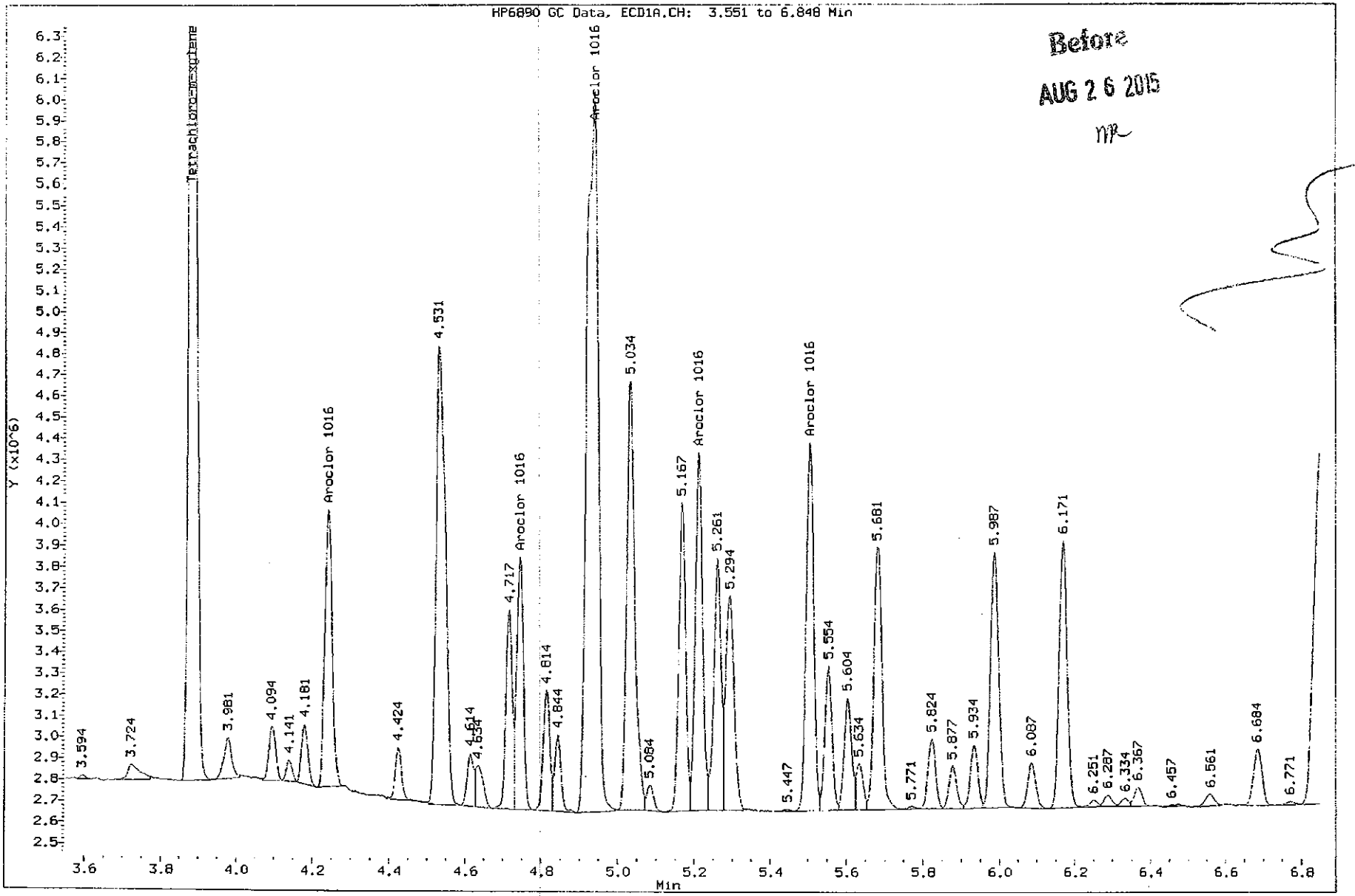
Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Injection Date: 25-AUG-2015 15:46
Instrument: GC27.i
Client Sample ID:



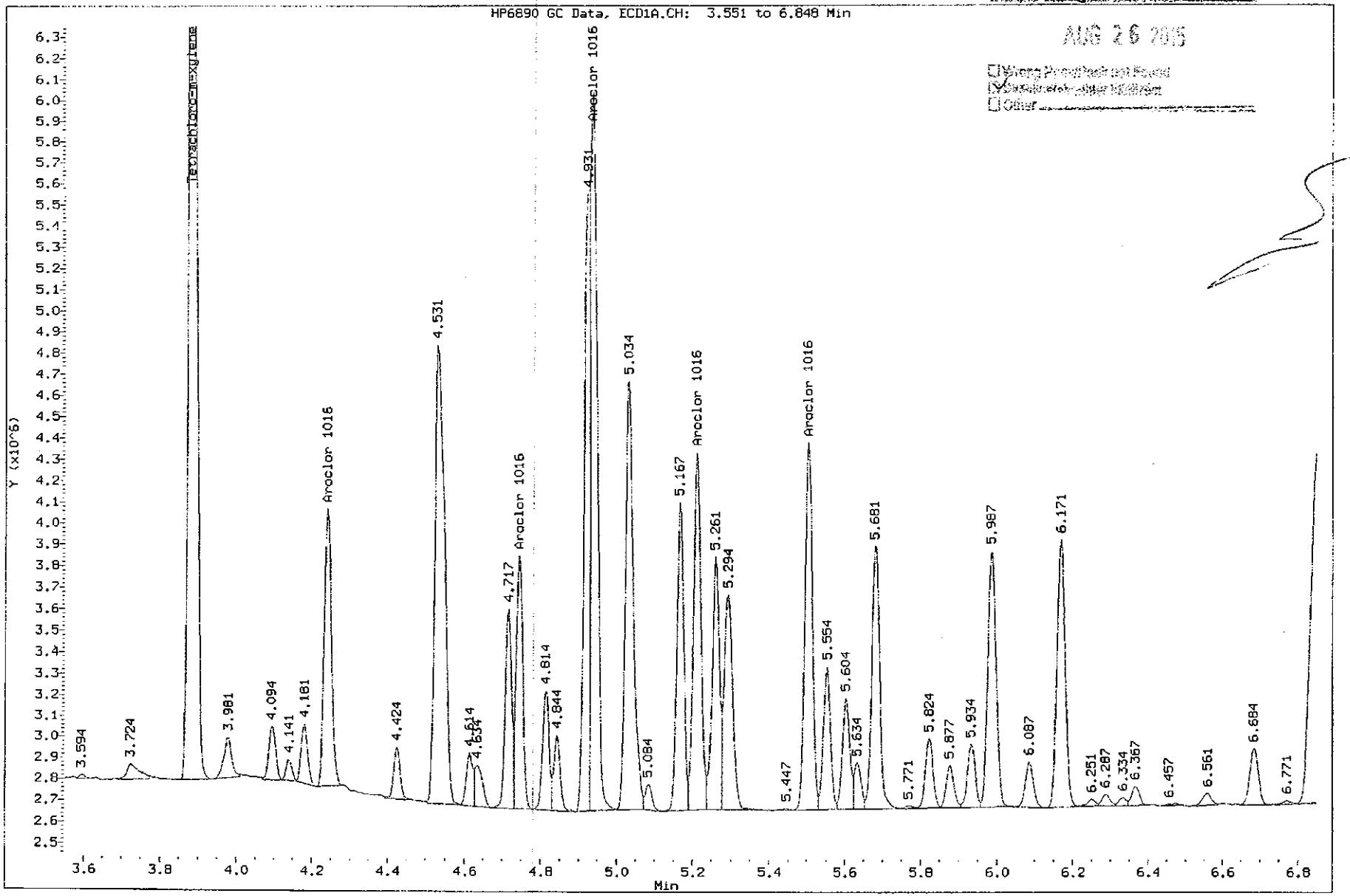
Before
AUG 2 6 2015
MR

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F013.D
Injection Date: 25-AUG-2015 15:46
Instrument: GC27.i
Client Sample ID:

After
Initials M

AUG 26 2015

☐ Wrong Proof Pack not Found
☒ Documents - Other Identified
☐ Other



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\0825F014.D
Lab ID: KWG1508064-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 16:10
Date Quantitated: 08/26/2015 09:27
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 08/26/15

Secondary Review:

Printed: 08/26/2015 09:52:35
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082515_R.B\0825F014.D
Lab ID: KWG1508064-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/25/2015 16:10
Date Quantitated: 08/26/2015 09:28
Batch ID: KWG1508064
Analysis Method: 8082A
MethodJoinID: MJ1066

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: VMK 08/26/15

Secondary Review:

Printed: 08/26/2015 09:52:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1066
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Decachlorobiphenyl	12.27	13.62	7746	5558	0.0490	0.0670				NA
			%Recovery =		NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508064	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000				NA
			%Recovery =		NA		NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.62	7746	5558	0.0490	0.0670				NA
			%Recovery =		NA		NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
&: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
c: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082515.B\0825F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D			**Vial:**	99
Acqu Date:	08/25/2015 16:10	**Quant Date:**	08/26/2015 09:27	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508064-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Report Date: 26-Aug-2015 09:27

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\0825F014.D
Inj Date : 25-AUG-2015 16:10
Sample Info: IB
Misc Info :
Cal Date : 26-AUG-2015 07:54
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.274	13.624	7746	5558	0.0490	0.0675		100.00

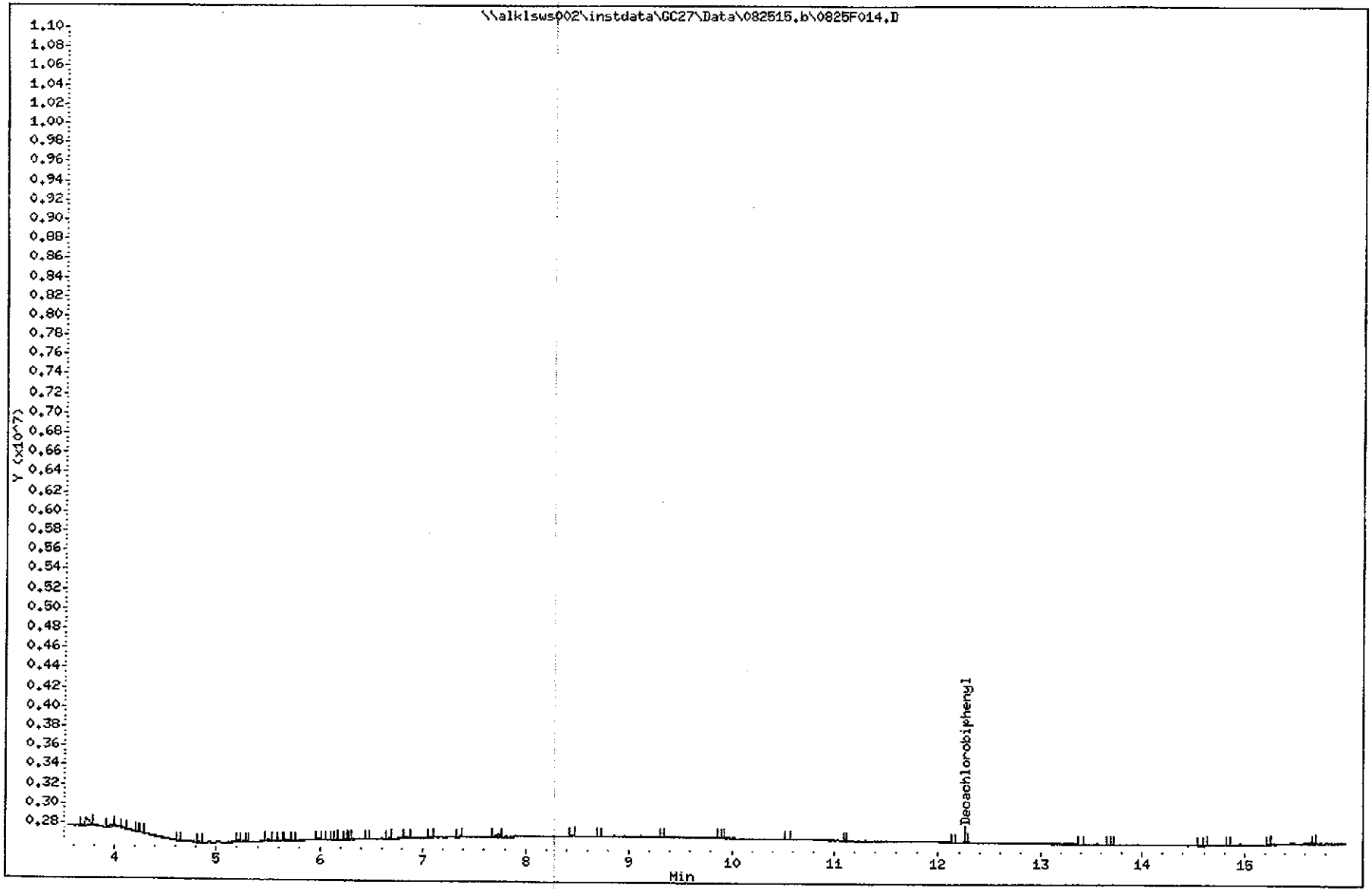
Data File: \\alklsws002\instdata\GC27\Data\082515.b\0825F014.D
Date : 25-AUG-2015 16:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\082615.S
Comment: PCB Aroclors by EPA 8082A
Operator: MR
Data Path: C:\GC27\DATA\082615\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0826F001	PCB_REG	PRIMER
2	IB	100	0826F002	PCB_REG	PRIMER
3	CCV	1	0826F003	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
4	IB	99	0826F004	PCB_REG	IB
5	LCS	6	0826F005	PCB_REG	KWG1507557-2 LCS
6	MB	7	0826F006	PCB_REG	KWG1507557-3 MB
7	MB	8	0826F007	PCB_REG	KWG1507557-4 MB
8	SMPL	9	0826F008	PCB_REG	K1508265-001
9	MS	10	0826F009	PCB_REG	K1508265-001 MS
10	SMPL	11	0826F010	PCB_REG	K1508265-002
11	LCS	12	0826F011	PCB_REG	KWG1507782-5 LCS
12	MB	13	0826F012	PCB_REG	KWG1507782-6 MB
13	SOLN	14	0826F013	PCB_REG	KWG1507782-2 SRM
14	SMPL	15	0826F014	PCB_REG	K1508937-001
15	SMPL	16	0826F015	PCB_REG	K1508937-001 DUP
16	SMPL	17	0826F016	PCB_REG	K01508937-001 MS
17	SMPL	18	0826F017	PCB_REG	K1508937-001 DMS
18	SMPL	19	0826F018	PCB_REG	1508937-002
19	CCV	1	0826F019	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
20	IB	99	0826F020	PCB_REG	IB
21	SMPL	20	0826F021	PCB_REG	K1508581-001 5X
22	SMPL	21	0826F022	PCB_REG	K1508582-001 5X
23	SMPL	22	0826F023	PCB_REG	K1508582-001 5X MS
24	SMPL	23	0826F024	PCB_REG	K1508582-001 5X DMS
25	CCV	1	0826F025	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
26	IB	99	0826F026	PCB_REG	IB
27	MDL	24	0826F027	PCB_REG	KWG1506152-1
28	MDL	25	0826F028	PCB_REG	KWG1506152-2
29	MDL	26	0826F029	PCB_REG	KWG1506152-3
30	MDL	27	0826F030	PCB_REG	KWG1506152-4
31	MDL	28	0826F031	PCB_REG	KWG1506152-5
32	MDL	29	0826F032	PCB_REG	KWG1506152-6
33	MB	30	0826F033	PCB_REG	KWG1506152-7
34	MDL	31	0826F034	PCB_REG	KWG1506152-8
35	MDL	32	0826F035	PCB_REG	KWG1506152-9
36	MDL	33	0826F036	PCB_REG	KWG1506152-10
37	MB	34	0826F037	PCB_REG	KWG1506152-11 MB
38	CCV	2	0826F038	PCB_REG	1660 @ 500ppb PCB6-74E ok,ok
39	IB	98	0826F039	PCB_REG	IB
40					

Run# 459542
col# 13624
KWG1508158

processed separately

9/25 10X

processed separately

Last Modified: Wed Aug 26 12:47:22 2015

Page: 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F019.D
Lab ID: KWG1508158-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 19:54
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 08/27/15

Secondary Review:

Printed: 08/27/2015 15:46:52
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F019.D
Lab ID: KWG1508158-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 19:54
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:46:56
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F019.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D			**Vial:**	1
Acqu Date:	08/26/2015 19:54	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9060250	3896754	51.18	49.54			NA
				%Recovery =	NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27	13.63	8028282	4094725	50.77	49.72			NA
				%Recovery =	NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	431.61	421.73			
Aroclor 1016 {1}	4.24	4.62	1608596	794097	448.20	432.02			
Aroclor 1016 {2}	4.75	4.96	1355862	1060578	452.54	435.63			
Aroclor 1016 {3}	4.94	5.59	4094654	1235330	413.98	411.88			
Aroclor 1016 {4}	5.21	5.92	2102197	910751	423.72	414.92			
Aroclor 1016 {5}	5.50	6.12	2172178	893056	419.63	414.22			
Aroclor 1260			0	0	467.84	475.33			
Aroclor 1260 {1}	7.08	7.84	4258119	987839	432.27	447.82			
Aroclor 1260 {2}	8.10	9.27	3799470	1799993	468.27	476.21			
Aroclor 1260 {3}	8.65	9.72	3853765	1714376	468.20	475.05			
Aroclor 1260 {4}	9.11	10.40	9004338	4203230	478.99	486.80			
Aroclor 1260 {5}	9.90	11.04	6972079	2741073	491.45	490.76			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D
Inj Date : 26-AUG-2015 19:54
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

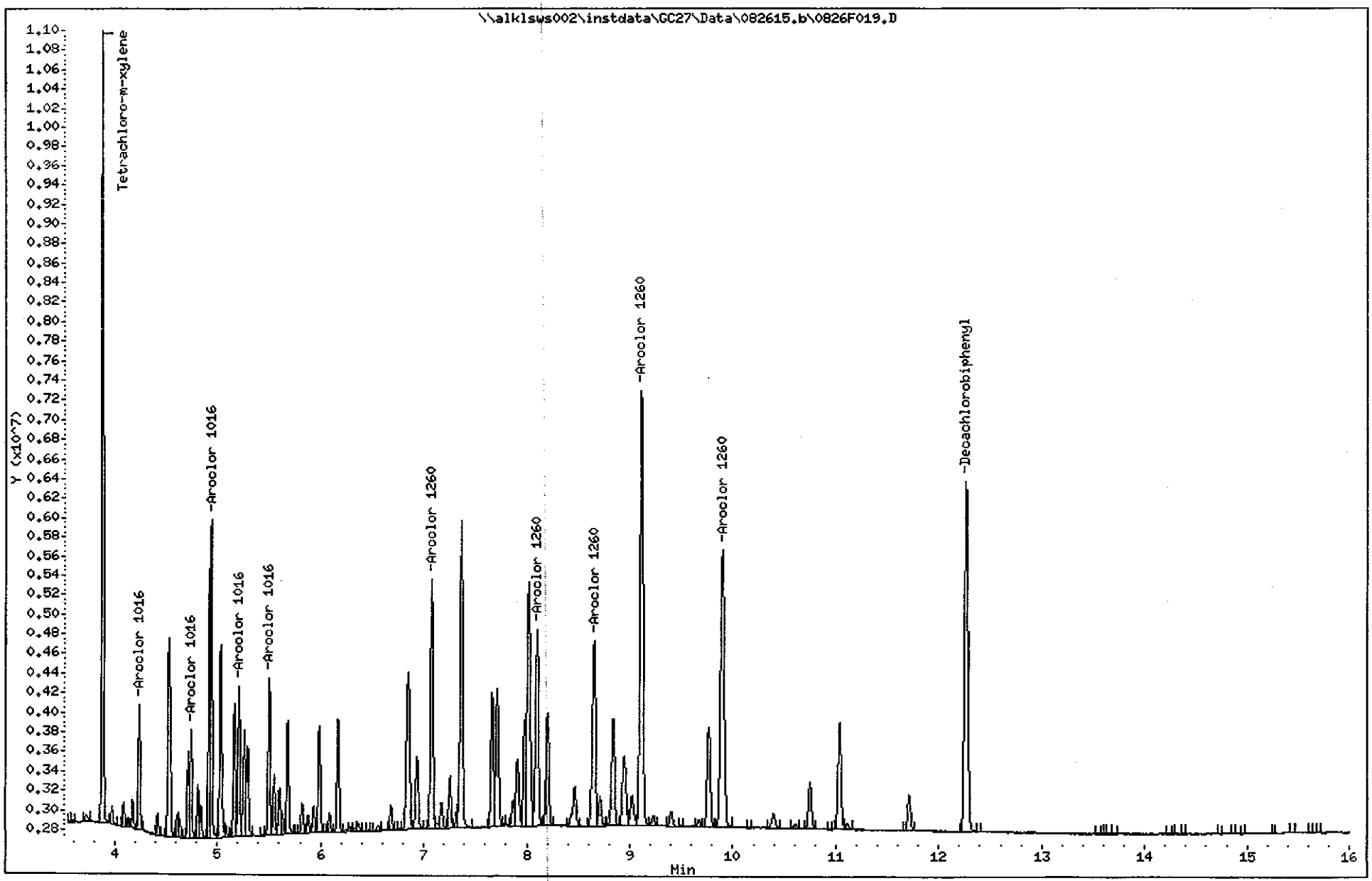
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	9060250	3896754	51.2	49.5		100.00
Aroclor 1016	4.239	4.622	1608596	794097	448	432	80.00- 120.00	100.00
	4.746	4.956	1355862	1060578	453	436	67.58- 101.37	84.29
	4.939	5.592	4094654	1235330	414	412	323.28- 484.93	254.55
	5.212	5.922	2102197	910751	424	415	104.43- 156.65	130.69
	5.502	6.119	2172178	893056	420	414	106.03- 159.05	135.04
		Average of Peak Amounts =			432	422		
Aroclor 1260	7.079	7.836	4258119	987839	432	448	80.00- 120.00	100.00
	8.099	9.272	3799470	1799993	468	476	70.14- 105.21	89.23
	8.649	9.722	3853765	1714376	468	475	70.66- 105.99	90.50
	9.112	10.399	9004338	4203230	479	487	162.95- 244.43	211.46
	9.899	11.036	6972079	2741073	491	491	126.35- 189.53	163.74
		Average of Peak Amounts =			468	475		
Decachlorobiphenyl	12.266	13.629	8028282	4094725	50.8	49.7		100.00

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F019.D
Date : 26-AUG-2015 19:54
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

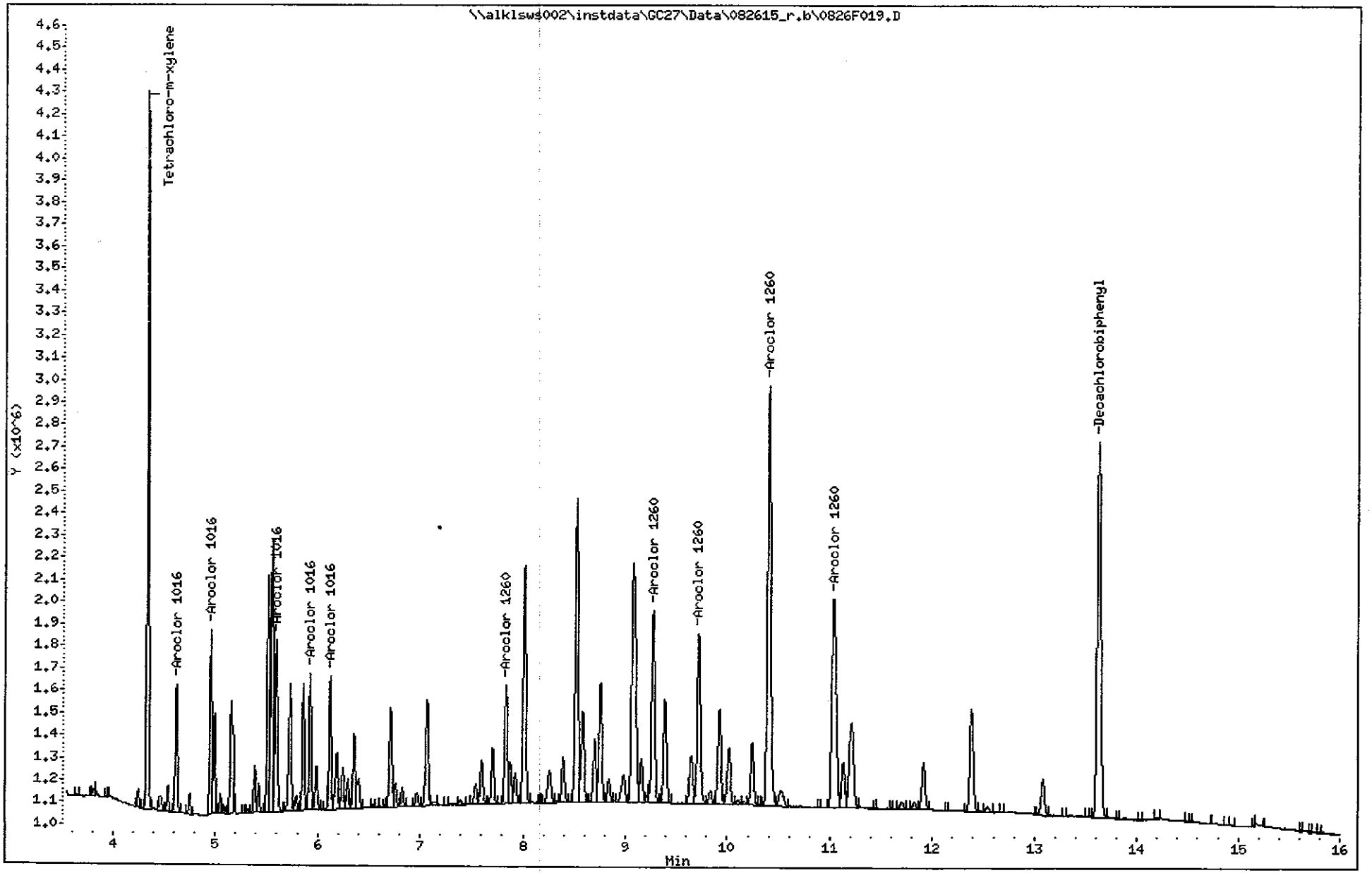


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F019.D
Date : 26-AUG-2015 19:54
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F020.D
Lab ID: KWG1508158-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 20:17
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: mr 08/27/15

Secondary Review: [signature]

Printed: 08/27/2015 15:47:01
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F020.D
Lab ID: KWG1508158-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 20:17
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review: [illegible]

Printed: 08/27/2015 15:47:06
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D			**Vial:**	99
Acqu Date:	08/26/2015 20:17	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.26		8505	0	0.0540	0.0000			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0d	0	0.0000	0.0000			
Aroclor 1232 {2}			0d	0	0.0000	0.0000			
Aroclor 1232 {3}			0d	0	0.0000	0.0000			
Aroclor 1232 {4}			0d	0	0.0000	0.0000			
Aroclor 1232 {5}			0d	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D			**Vial:**	99
Acqu Date:	08/26/2015 20:17	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0d	0.0000	0.0000			
Aroclor 1254 {2}			0	0d	0.0000	0.0000			
Aroclor 1254 {3}			0	0d	0.0000	0.0000			
Aroclor 1254 {4}			0	0d	0.0000	0.0000			
Aroclor 1254 {5}			0	0d	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D
Inj Date : 26-AUG-2015 20:17
Sample Info: IB
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.263	0.000	8505	0	0.0538	0.000		100.00

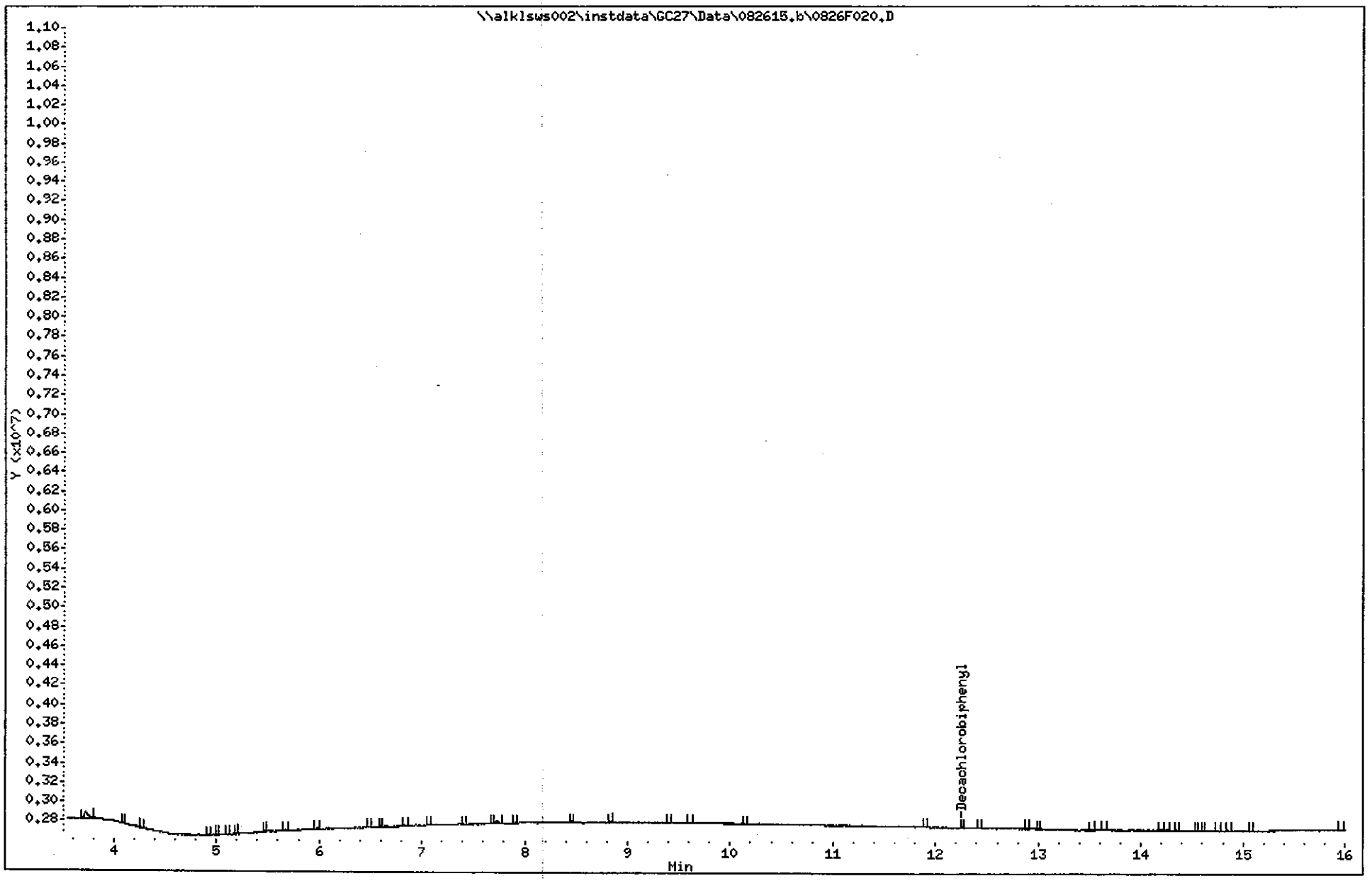
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F020.D
Date : 26-AUG-2015 20:17
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32



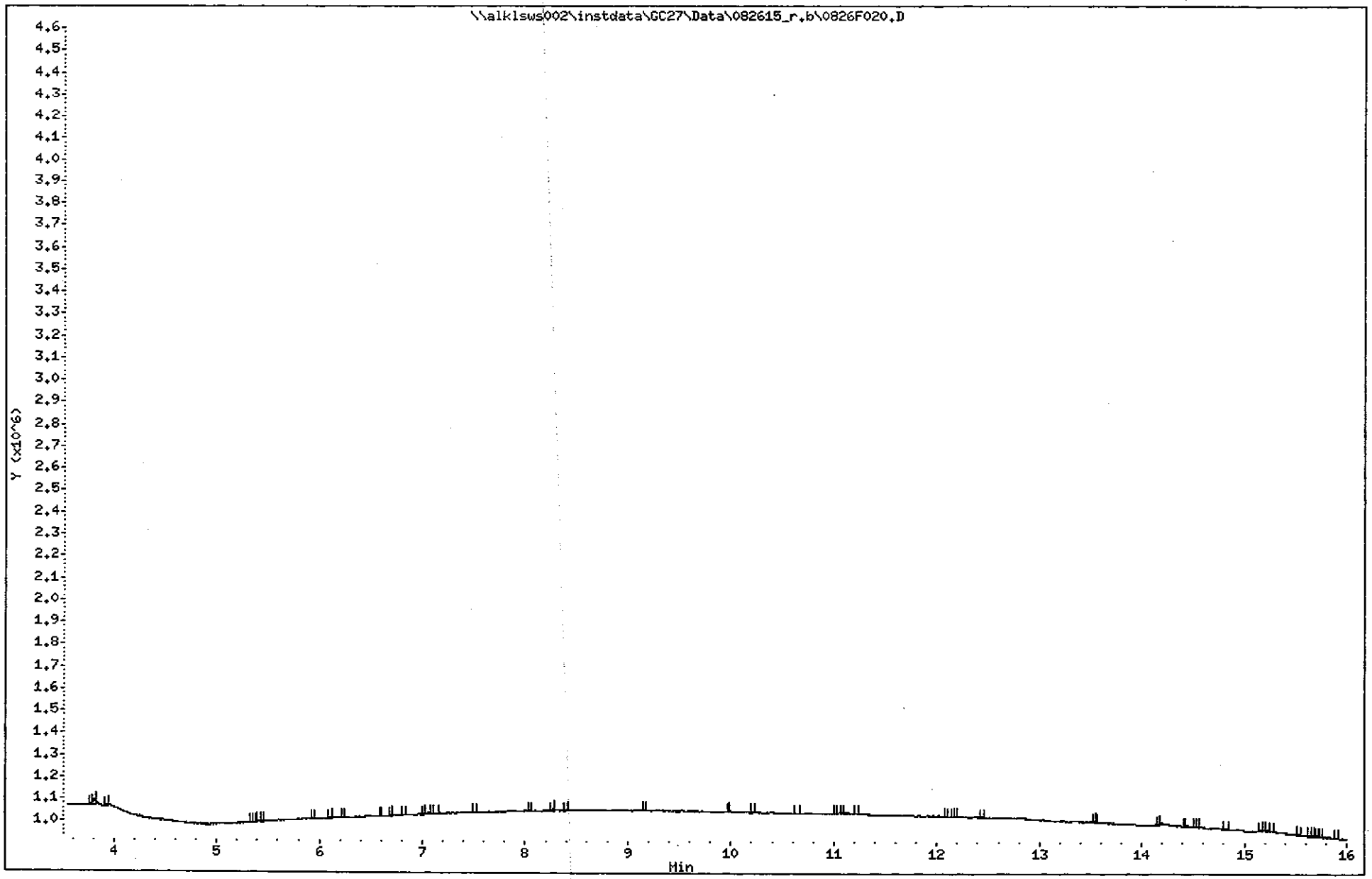
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F020.D
Date : 26-AUG-2015 20:17
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F025.D
Lab ID: KWG1508158-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:15
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	FQV OK

Primary Review: MB 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:45
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F025.D
Lab ID: KWG1508158-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:15
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JCU Dual

Primary Review: MPL 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:50
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F025.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D			**Vial:**	1
Acqu Date:	08/26/2015 22:15	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9728550	3865510	54.96	49.15			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.26	13.63	8336946	4174891	52.72	50.70			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	466.00	430.45			
Aroclor 1016 {1}	4.24	4.62	1748534	817692	487.20	444.85			
Aroclor 1016 {2}	4.74	4.96	1419239	1085586	473.70	445.90			
Aroclor 1016 {3}	4.94	5.59	4613148	1234622	466.40	411.65			
Aroclor 1016 {4}	5.21	5.92	2251064	933543	453.73	425.30			
Aroclor 1016 {5}	5.50	6.12	2324227	915296	449.00	424.53			
Aroclor 1260			0	0	491.03	492.15			
Aroclor 1260 {1}	7.08	7.83	4584825	1022162	465.44	463.38			
Aroclor 1260 {2}	8.09	9.27	3994627	1897973	492.32	502.13			
Aroclor 1260 {3}	8.65	9.72	4064937	1771218	493.86	490.80			
Aroclor 1260 {4}	9.11	10.40	9314985	4291289	495.51	497.00			
Aroclor 1260 {5}	9.90	11.03	7207056	2834197	508.02	507.44			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D
Inj Date : 26-AUG-2015 22:15
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

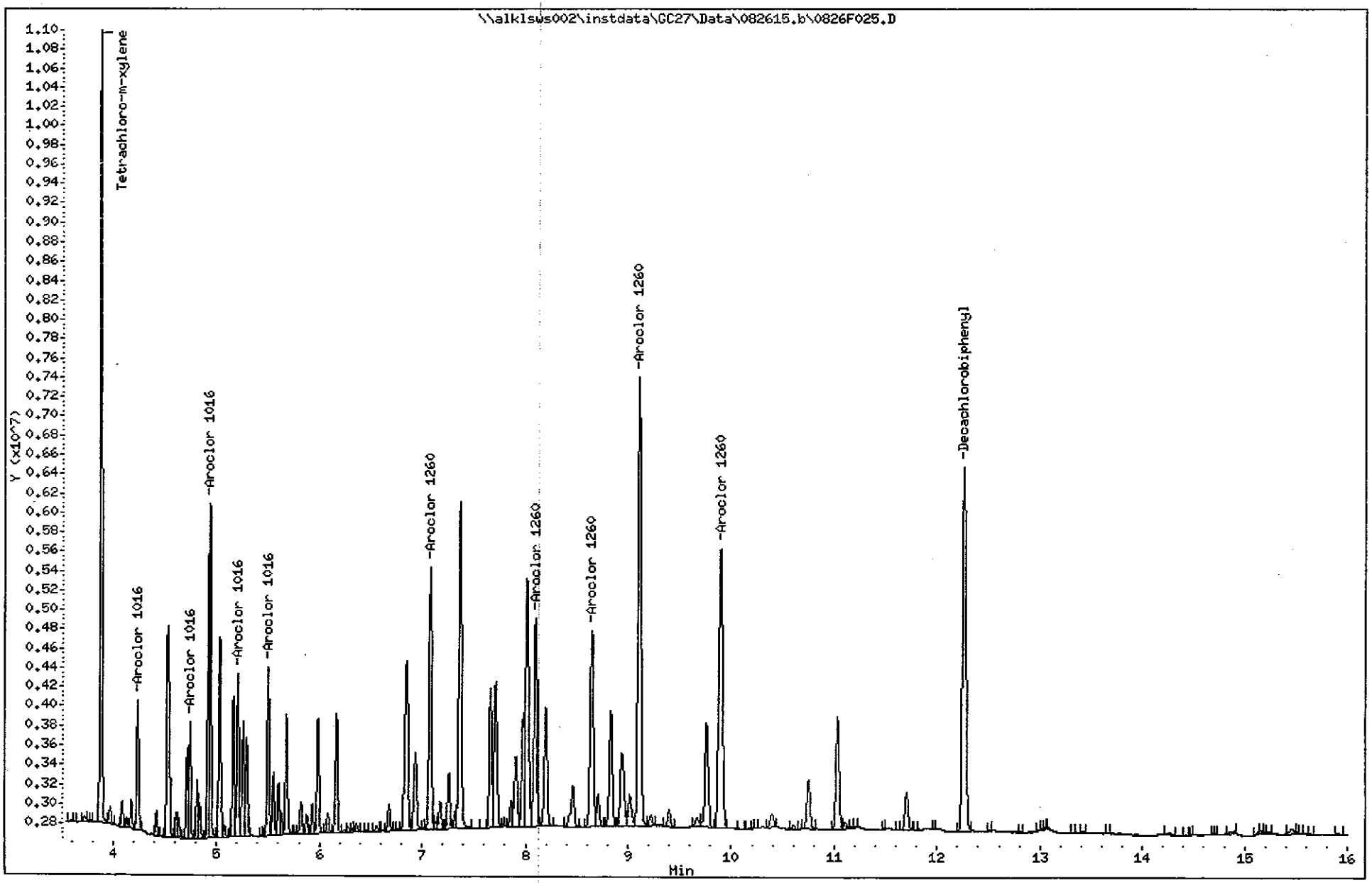
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	9728550	3865510	55.0	49.1		100.00
Aroclor 1016	4.239	4.622	1748534	817692	487	445	80.00- 120.00	100.00
	4.742	4.956	1419239	1085586	474	446	67.58- 101.37	81.17
	4.935	5.589	4613148	1234622	466	412	323.28- 484.93	263.83
	5.209	5.922	2251064	933543	454	425	104.43- 156.65	128.74
	5.502	6.119	2324227	915296	449	425	106.03- 159.05	132.92
		Average of Peak Amounts =			466	431		
Aroclor 1260	7.075	7.832	4584825	1022162	465	463	80.00- 120.00	100.00
	8.092	9.269	3994627	1897973	492	502	70.14- 105.21	87.13
	8.645	9.719	4064937	1771218	494	491	70.66- 105.99	88.66
	9.109	10.396	9314985	4291289	496	497	162.95- 244.43	203.17
	9.895	11.029	7207056	2834197	508	507	126.35- 189.53	157.19
		Average of Peak Amounts =			491	492		
Decachlorobiphenyl	12.259	13.626	8336946	4174891	52.7	50.7		100.00

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F025.D
Date : 26-AUG-2015 22:15
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

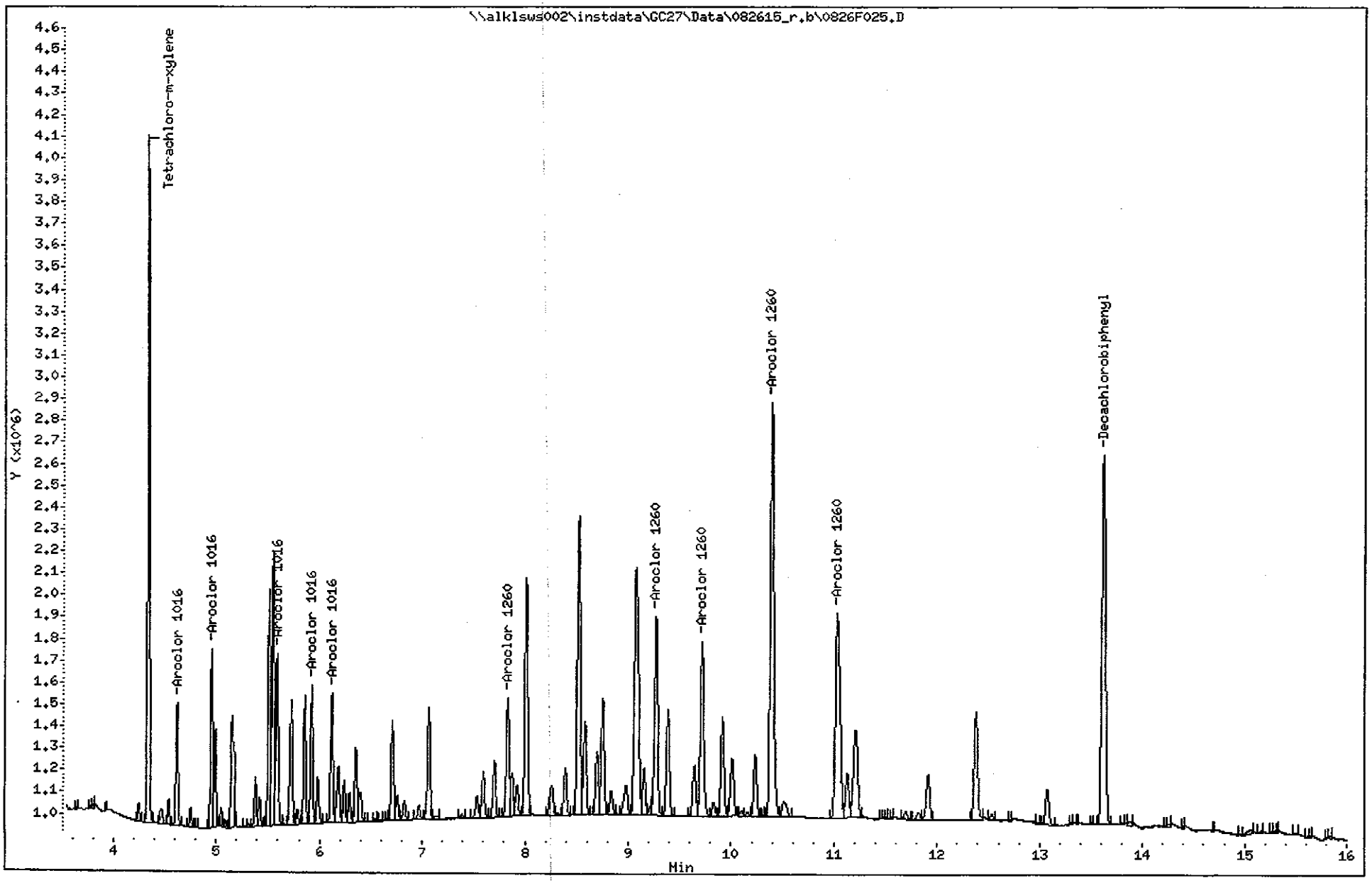


Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F025.D
Date : 26-AUG-2015 22:15
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: HR
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\0826F026.D
Lab ID: KWG1508158-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:38
Date Quantitated: 08/27/2015 15:19
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MC 08/27/15

Secondary Review:

Printed: 08/27/2015 15:47:54
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082615_R.B\0826F026.D
Lab ID: KWG1508158-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 08/26/2015 22:38
Date Quantitated: 08/27/2015 15:20
Batch ID: KWG1508158
Analysis Method: 8082A
MethodJoinID: MJ498

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 08/27/15

Secondary Review: _____

Printed: 08/27/2015 15:47:58
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ498
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00	4.34	0	3084		0.0390			NA
			%Recovery =		NA	NA	Limits =	21-114	
Decachlorobiphenyl	12.27	13.62	17891	8469	0.1130	0.1030			NA
			%Recovery =		NA	NA	Limits =	36-113	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/L

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/L #1	ug/L #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.81			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}		5.46	0d	5212	0.0000	2.02			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}		6.36	0d	6354	0.0000	2.65			
Aroclor 1248 {5}		7.04	0d	3285	0.0000	0.7700			
Aroclor 1254			0	0	0.0000	1.27			
Aroclor 1254 {1}		6.70	0d	2833	0.0000	0.7710			
Aroclor 1254 {2}		7.04	0d	3285	0.0000	0.5670			
Aroclor 1254 {3}		7.16	0d	3201	0.0000	1.65			
Aroclor 1254 {4}		7.99	0d	2665	0.0000	1.18			
Aroclor 1254 {5}		8.74	0d	6839	0.0000	2.18			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0	0.0000	0.0000			
Aroclor 1262 {2}			0d	0	0.0000	0.0000			
Aroclor 1262 {3}			0d	0	0.0000	0.0000			
Aroclor 1262 {4}			0d	0	0.0000	0.0000			
Aroclor 1262 {5}			0d	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alkiswsw002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	08/27/2015

Analysis Lot:	KWG1508158	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082615.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00	4.34	0	3084		0.0390			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.62	17891	8469	0.1130	0.1030			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0	0.0000	0.0000			
Aroclor 1016 {2}			0d	0	0.0000	0.0000			
Aroclor 1016 {3}			0d	0	0.0000	0.0000			
Aroclor 1016 {4}			0d	0	0.0000	0.0000			
Aroclor 1016 {5}			0d	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082615.B\0826F026.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D			**Vial:**	99
Acqu Date:	08/26/2015 22:38	**Quant Date:**	08/27/2015 15:19	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508158-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.81			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}		5.46	0d	5212	0.0000	2.02			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}		6.36	0d	6354	0.0000	2.65			
Aroclor 1248 {5}		7.04	0d	3285	0.0000	0.7700			
Aroclor 1254			0	0	0.0000	1.27			
Aroclor 1254 {1}		6.70	0d	2833	0.0000	0.7710			
Aroclor 1254 {2}		7.04	0d	3285	0.0000	0.5670			
Aroclor 1254 {3}		7.16	0d	3201	0.0000	1.65			
Aroclor 1254 {4}		7.99	0d	2665	0.0000	1.18			
Aroclor 1254 {5}		8.74	0d	6839	0.0000	2.18			
Aroclors, Total			0	8714	0.0000	3.08	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0	0.0000	0.0000			
Aroclor 1262 {2}			0d	0	0.0000	0.0000			
Aroclor 1262 {3}			0d	0	0.0000	0.0000			
Aroclor 1262 {4}			0d	0	0.0000	0.0000			
Aroclor 1262 {5}			0d	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Report Date: 27-Aug-2015 15:19

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D
Inj Date : 26-AUG-2015 22:38
Sample Info: IB
Misc Info :
Cal Date : 27-AUG-2015 08:09
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082615.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082615_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	0.000	4.336	0	3084	0.000	0.0392		
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.462	0	5212	0.000	2.02		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.359	0	6354	0.000	2.65		
	0.000	7.036	0	3285	0.000	0.770		
		Average of Peak Amounts =			0.000	1.81		
Aroclor 1254	0.000	6.696	0	2833	0.000	0.771		
	0.000	7.036	0	3285	0.000	0.567		
	0.000	7.162	0	3201	0.000	1.65		
	0.000	7.992	0	2665	0.000	1.18		
	0.000	8.742	0	6839	0.000	2.18		
		Average of Peak Amounts =			0.000	1.27		
Decachlorobiphenyl	12.266	13.619	17891	8469	0.113	0.103		100.00
Aroclors, Total	0.000	0.000	0	8714	0.000	3.08		

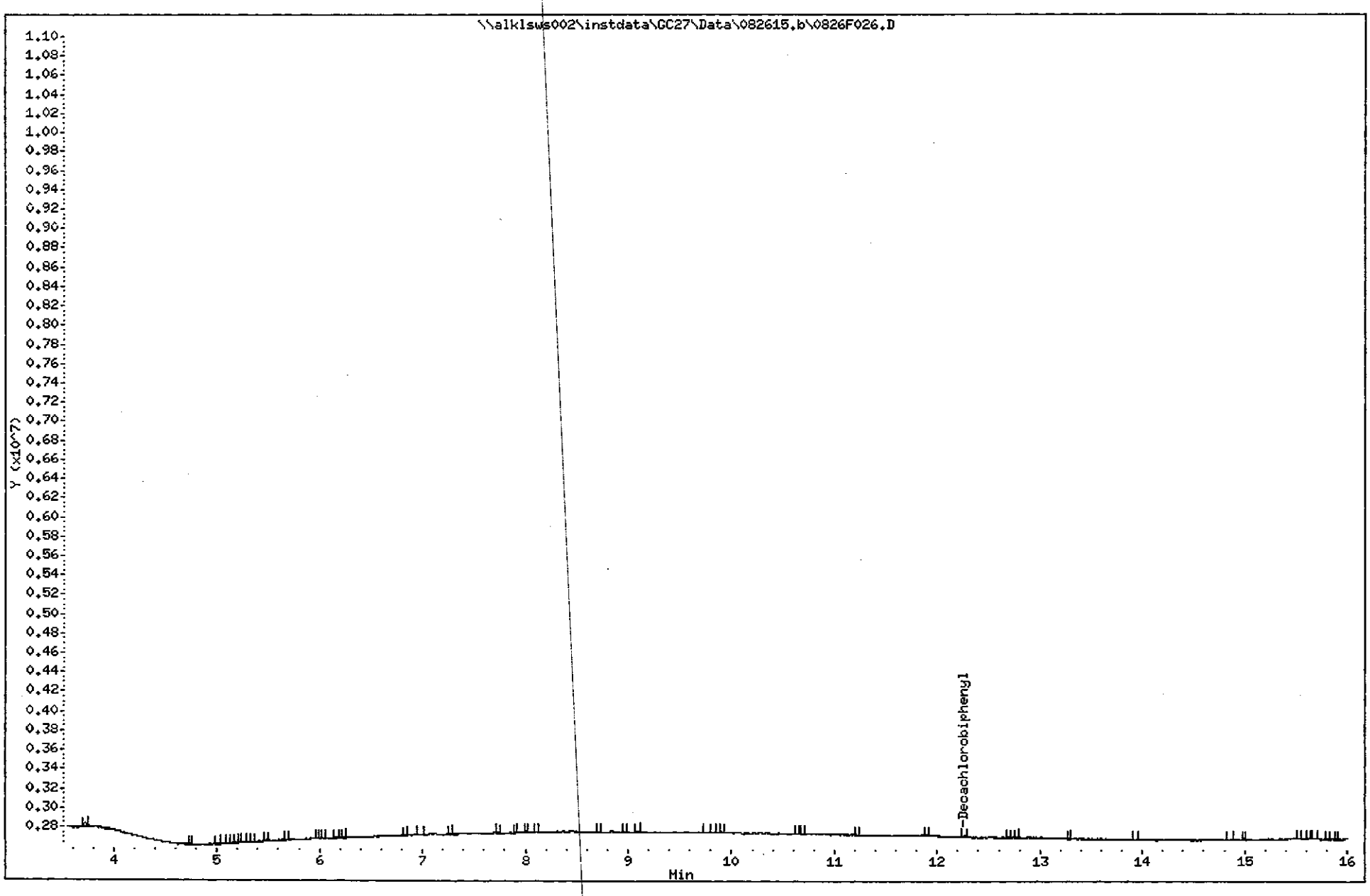
Data File: \\alklsws002\instdata\GC27\Data\082615.b\0826F026.D
Date : 26-AUG-2015 22:38
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



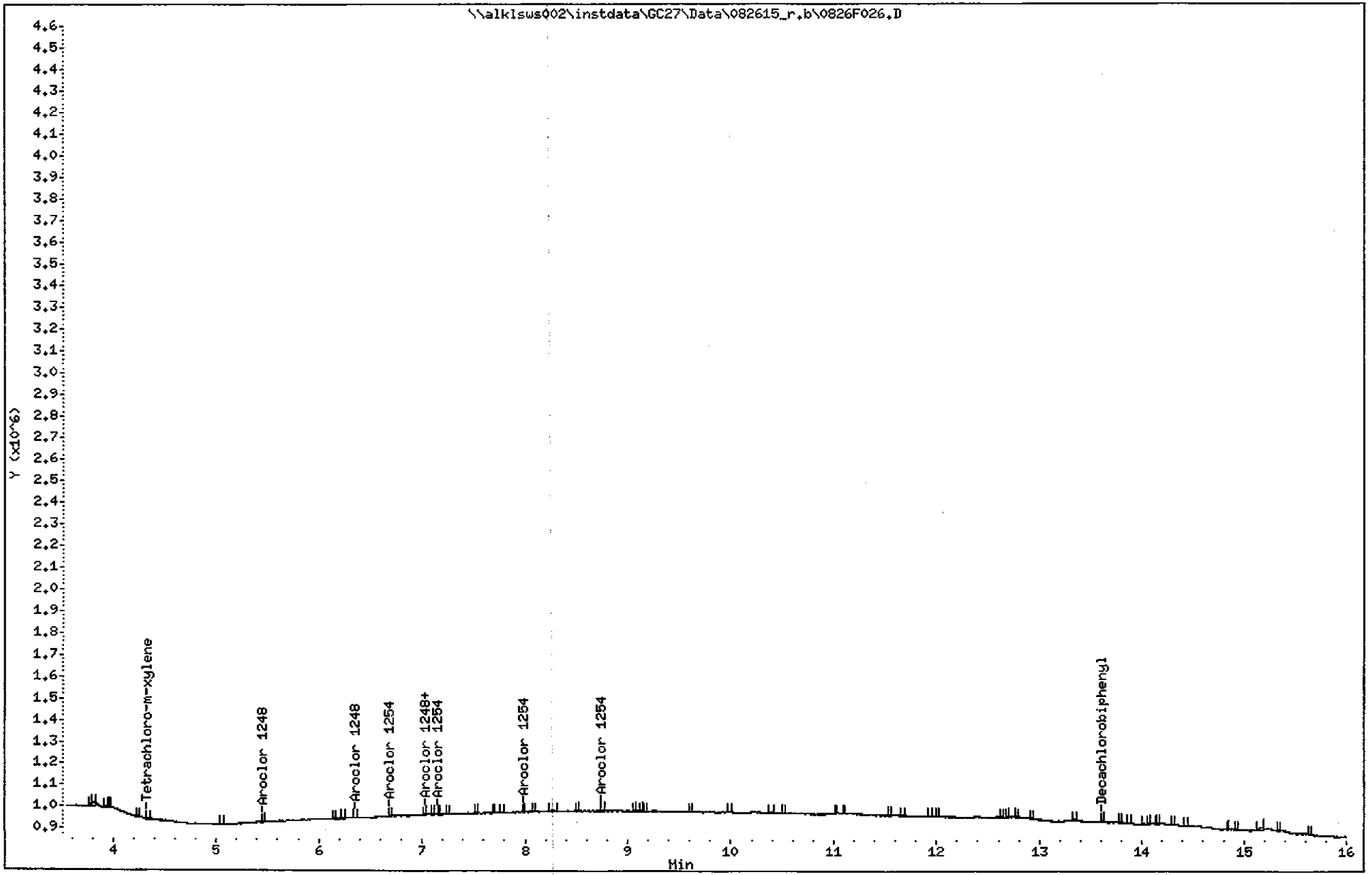
Data File: \\alklsws002\instdata\GC27\Data\082615_r.b\0826F026.D
Date : 26-AUG-2015 22:38
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\082815.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\082815\
Pre-Seq Cmd:
Post-Seq Cmd:

CAL: Bday
RUN: 9970

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0828F001	PCB_REG	PRIMER
2	IB	100	0828F002	PCB_REG	PRIMER
3	CCV	1	0828F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	2	0828F004	PCB_REG	IB
5	SMPL	3	0828F005	PCB_REG	K1508581-001 20X
6	SMPL	4	0828F006	PCB_REG	K1508582-001 20X
7	SMPL	5	0828F007	PCB_REG	K1508912-001
8	MS	6	0828F008	PCB_REG	K1508912-001MS (K1508988-001)
9	DMS	7	0828F009	PCB_REG	K1508912-001DMS (K1508988-001
10	SMPL	8	0828F010	PCB_REG	K1508912-002
11	SMPL	9	0828F011	PCB_REG	K1508988-001
12	SMPL	10	0828F012	PCB_REG	K1509109-001
13	LCS	11	0828F013	PCB_REG	KWG1507746-LCS
14	MB	12	0828F014	PCB_REG	KWG1507746-MB
15	CCV	1	0828F015	PCB_REG	1660 @ 500ppb PCB6-74E
16	IB	2	0828F016	PCB_REG	IB
17	SMPL	13	0828F017	PCB_REG	K1509219-001 - Report Rear
18	SMPL	14	0828F018	PCB_REG	K1509222-001
19	SMPL	15	0828F019	PCB_REG	K1509244-001
20	SMPL	16	0828F020	PCB_REG	K1509356-001
21	LCS	17	0828F021	PCB_REG	KWG1508148-LCS
22	DLCS	18	0828F022	PCB_REG	KWG1508148-DLCS
23	MB	19	0828F023	PCB_REG	KWG1508148-MB
24	SMPL	20	0828F024	PCB_REG	K1509219-001 STLC
25	MS	21	0828F025	PCB_REG	K1509219-001MS
26	SMPL	22	0828F026	PCB_REG	K1509222-001 STLC
27	SMPL	23	0828F027	PCB_REG	K1509244-001 STLC
28	LCS	24	0828F028	PCB_REG	KWG15081138-LCS
29	MB	25	0828F029	PCB_REG	KWG15081138-MB3
30	MB	26	0828F030	PCB_REG	KWG15081138-MB4
31	CCV	1	0828F031	PCB_REG	1660 @ 500ppb PCB6-74E
32	IB	2	0828F032	PCB_REG	IB
33	SMPL	27	0828F033	PCB_REG	K1509162-001
34	MS	28	0828F034	PCB_REG	K1509162-001MS
35	DMS	29	0828F035	PCB_REG	K1509162-001DMS
36	SMPL	30	0828F036	PCB_REG	K1509162-002
37	SMPL	31	0828F037	PCB_REG	K1509162-003
38	SMPL	32	0828F038	PCB_REG	K1509162-004
39	SMPL	33	0828F039	PCB_REG	K1509162-005
40	SMPL	34	0828F040	PCB_REG	K1509263-002
41	SMPL	35	0828F041	PCB_REG	K1509263-003
42	LCS	36	0828F042	PCB_REG	KWG1508017-LCS
43	DLCS	37	0828F043	PCB_REG	KWG1508017-DLCS

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F003.D	**Date Acquired:**	08/28/2015 13:26
Lab ID:	KWG1508233-1	**Date Quantitated:**	08/29/2015 18:33
RunType:	CCV	**Batch ID:**	KWG1508233
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F003.D
Lab ID: KWG1508233-1
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:26
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:44
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D			**Vial:**	1
Acqu Date:	08/28/2015 13:26	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIMEI
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.89	4.35	9807817	3523575	55.40	44.80			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.29	13.65	8292577	4085462	52.44	49.61			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	479.16	405.62			
Aroclor 1016 {1}	4.25	4.63	1799995m	759202	501.53	413.03			
Aroclor 1016 {2}	4.75	4.97	1477726m	1002774	493.22	411.89			
Aroclor 1016 {3}	4.95	5.60	4567742m	1192652	461.81	397.65			
Aroclor 1016 {4}	5.22	5.94	2362191m	888514	476.12	404.79			
Aroclor 1016 {5}	5.52	6.13	2397166m	863947	463.09	400.72			
Aroclor 1260			0	0	493.41	478.93			
Aroclor 1260 {1}	7.09	7.85	4589977	982163	465.96	445.25			
Aroclor 1260 {2}	8.11	9.29	4041962	1814059	498.16	479.93			
Aroclor 1260 {3}	8.67	9.74	4080687	1729870	495.77	479.35			
Aroclor 1260 {4}	9.13	10.42	9334707	4199628	496.56	486.38			
Aroclor 1260 {5}	9.92	11.06	7243548	2813615	510.59	503.75			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D
Inj Date : 28-AUG-2015 13:26
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.891	4.351	9807817	3523575	55.4	44.8		100.00
Aroclor 1016	4.251	4.634	1799995	759202	502	413	80.00- 120.00	100.00(M)
	4.754	4.967	1477726	1002774	493	412	63.82- 95.72	82.10(M)
	4.951	5.604	4567742	1192652	462	398	185.63- 278.45	398.89(M)
	5.224	5.937	2362191	888514	476	405	98.37- 147.56	131.23(M)
	5.517	6.134	2397166	863947	463	401	100.21- 150.31	133.18(M)
		Average of Peak Amounts =			479	406		
Aroclor 1260	7.094	7.854	4589977	982163	466	445	80.00- 120.00	100.00
	8.114	9.291	4041962	1814059	498	480	70.49- 105.74	88.06
	8.667	9.741	4080687	1729870	496	479	71.38- 107.06	88.90
	9.134	10.421	9334707	4199628	497	486	164.52- 246.79	203.37
	9.921	11.057	7243548	2813615	511	504	127.82- 191.73	157.81
		Average of Peak Amounts =			494	479		
Decachlorobiphenyl	12.287	13.651	8292577	4085462	52.4	49.6		100.00

QC Flag Legend

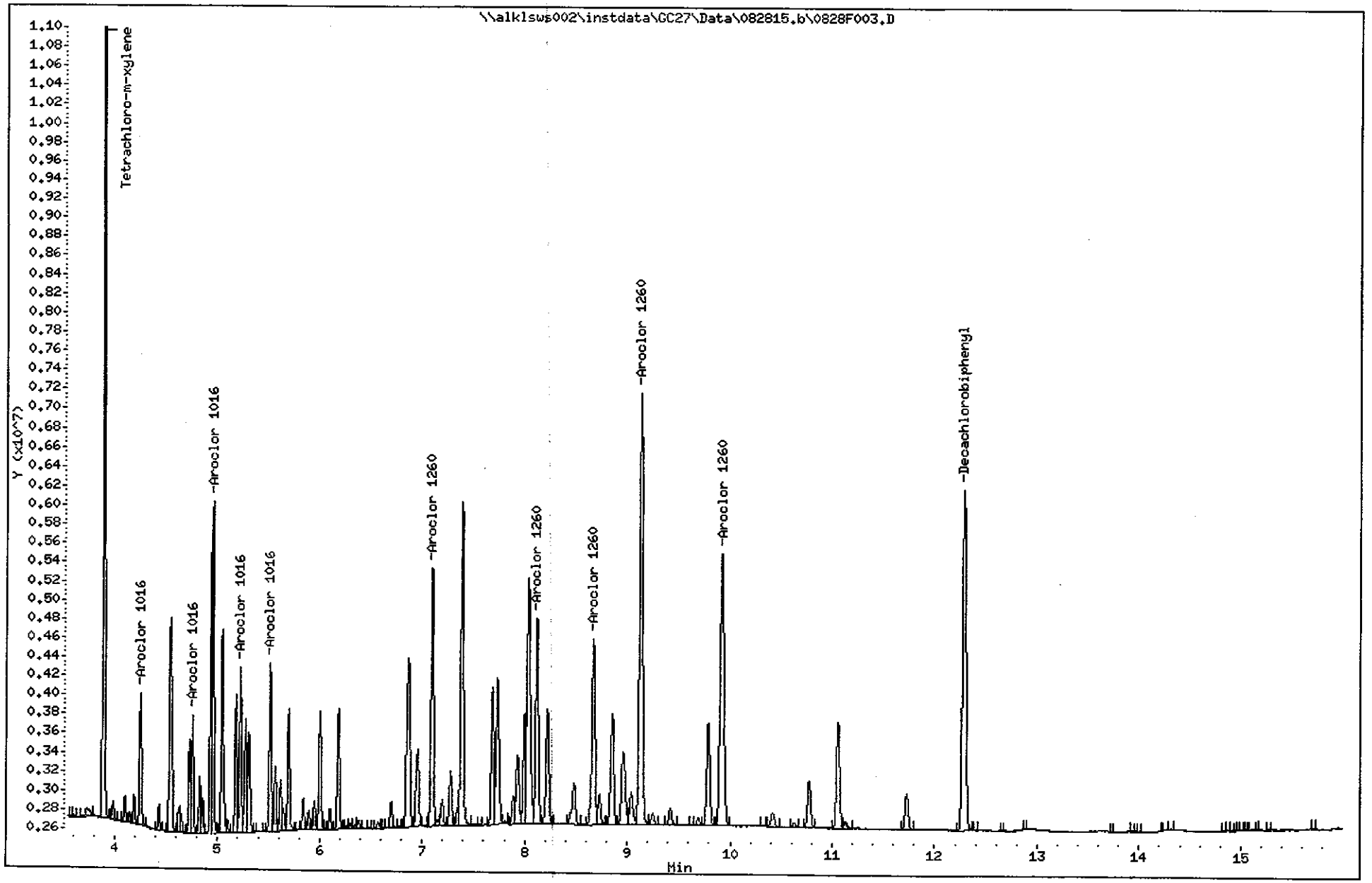
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F003.D
Date : 28-AUG-2015 13:26
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32



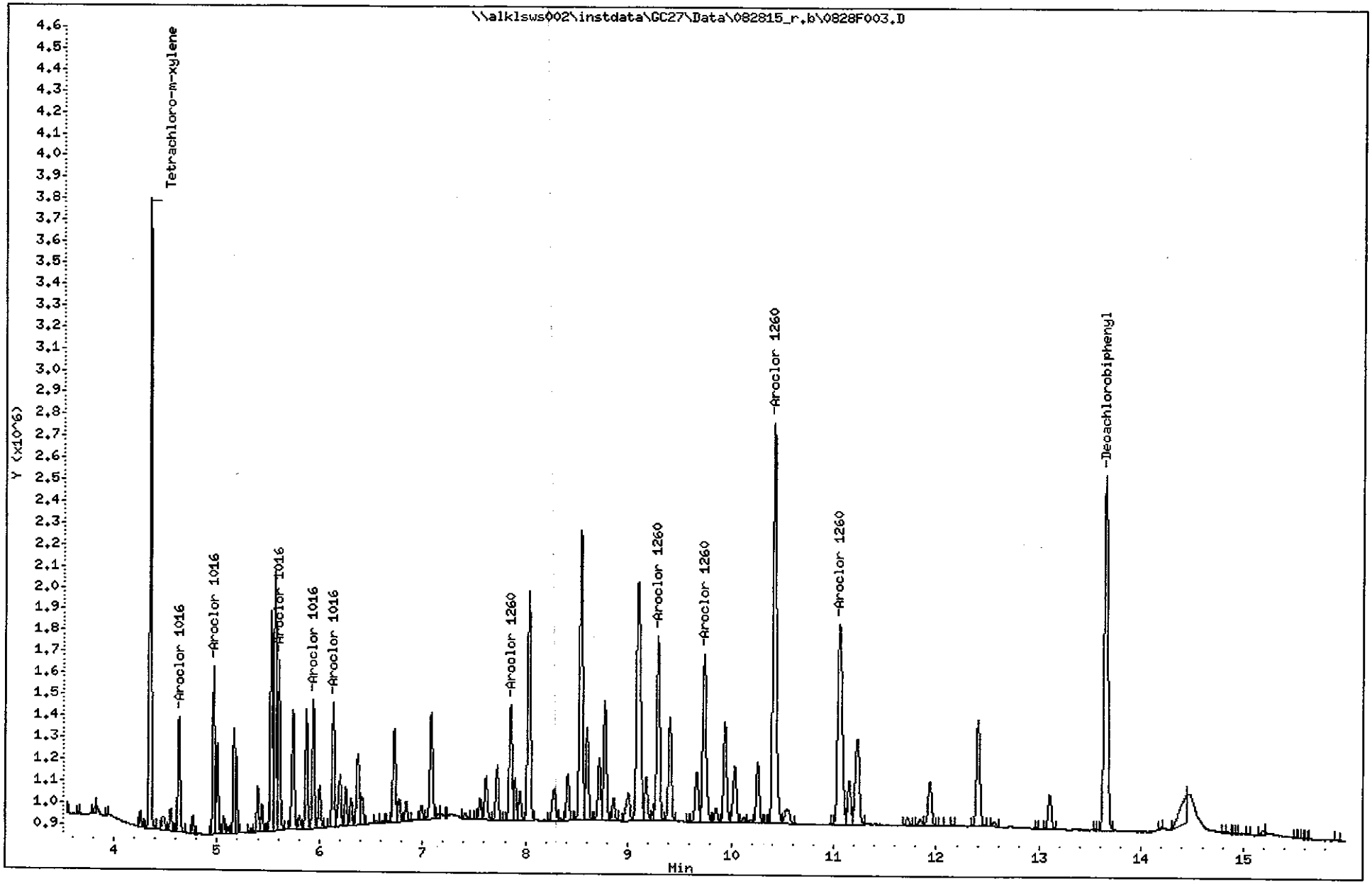
Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F003.D
Date : 28-AUG-2015 13:26
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F004.D
Lab ID: KWG1508233-2
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:50
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	DS

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:47
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F004.D
Lab ID: KWG1508233-2
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 13:50
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:38:51
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D			**Vial:**	2
Acqu Date:	08/28/2015 13:50	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00	13.63	0	6861		0.0830			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D			**Vial:**	2
Acqu Date:	08/28/2015 13:50	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	1.76			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}		5.49	0	4462	0.0000	1.73			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}		6.37	0	4998	0.0000	2.08			
Aroclor 1248 {5}		7.07	0	6234	0.0000	1.46			
Aroclor 1254			0	0	0.0000	1.45			
Aroclor 1254 {1}		6.71	0	8056	0.0000	2.19			
Aroclor 1254 {2}		7.07	0	6234	0.0000	1.08			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}		8.77	0	3397	0.0000	1.08			
Aroclors, Total			10420	11127	0.8120	3.21	J	J	
Aroclor 1260			0	0	0.8117	0.0000			
Aroclor 1260 {1}	7.09		13047	0	1.32	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.11		10001	0	0.5320	0.0000			
Aroclor 1260 {5}	9.90		8213	0	0.5790	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D
Inj Date : 28-AUG-2015 13:50
Sample Info: IB
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.493	0	4462	0.000	1.73		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.366	0	4998	0.000	2.08		
	0.000	7.069	0	6234	0.000	1.46		
		Average of Peak Amounts =			0.000	1.76		
Aroclor 1254	0.000	6.713	0	8056	0.000	2.19		
	0.000	7.069	0	6234	0.000	1.08		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	8.769	0	3397	0.000	1.08		
		Average of Peak Amounts =			0.000	1.45		
Aroclor 1260	7.086	0.000	13047	0	1.32	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	70.49- 105.74	0.00(T)
	0.000	0.000	0	0	0.000	0.000	71.38- 107.06	0.00(T)
	9.113	0.000	10001	0	0.532	0.000	164.52- 246.79	76.65(T)
	9.896	0.000	8213	0	0.579	0.000	127.82- 191.73	62.95(T)
		Average of Peak Amounts =			0.810	0.000		
Decachlorobiphenyl	0.000	13.626	0	6861	0.000	0.0833		
Aroclors, Total	0.000	0.000	10420	11127	0.812	3.21		0.00

QC Flag Legend

T - Target compound detected outside RT window.

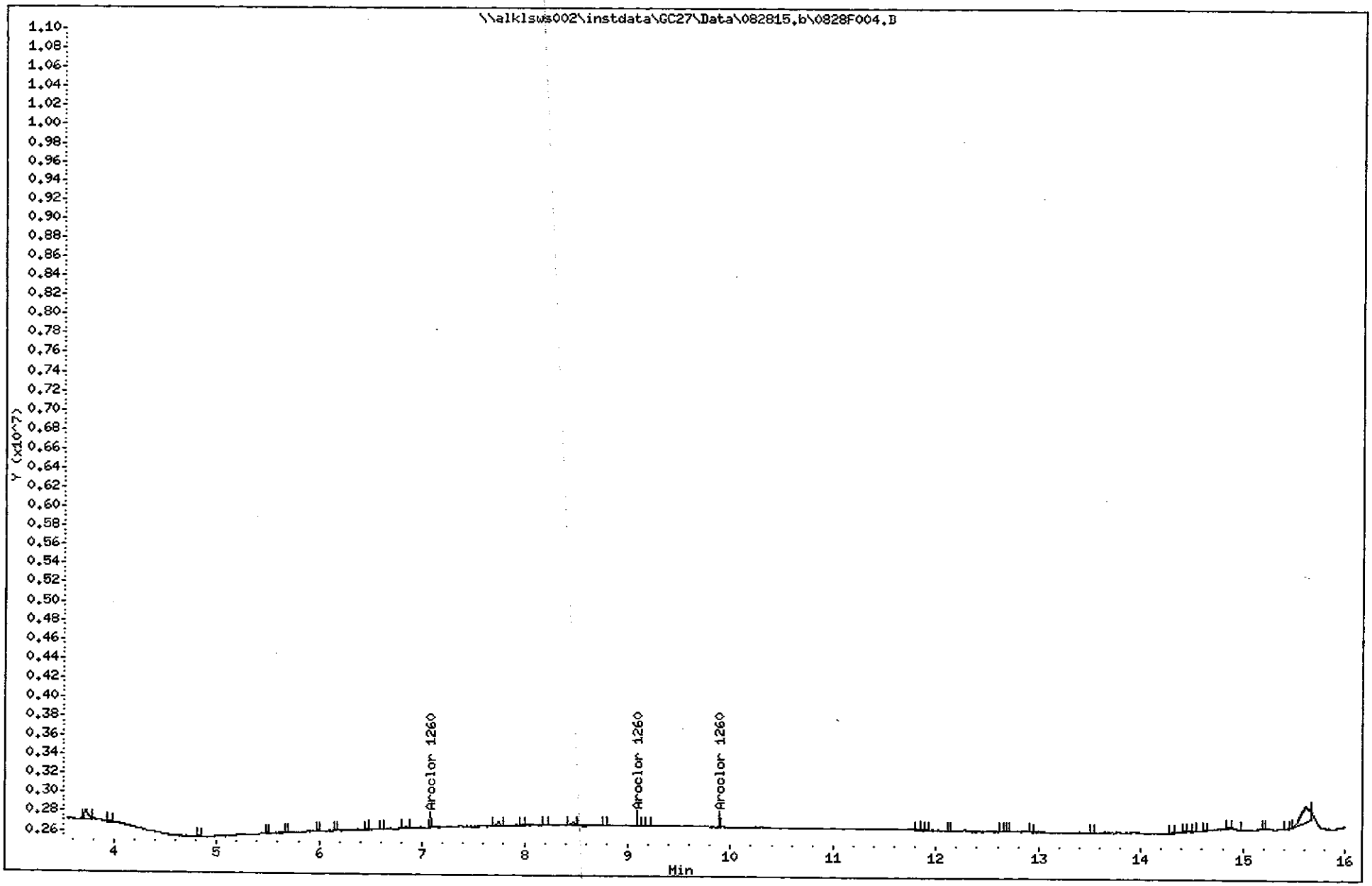
Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F004.D
Date : 28-AUG-2015 13:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



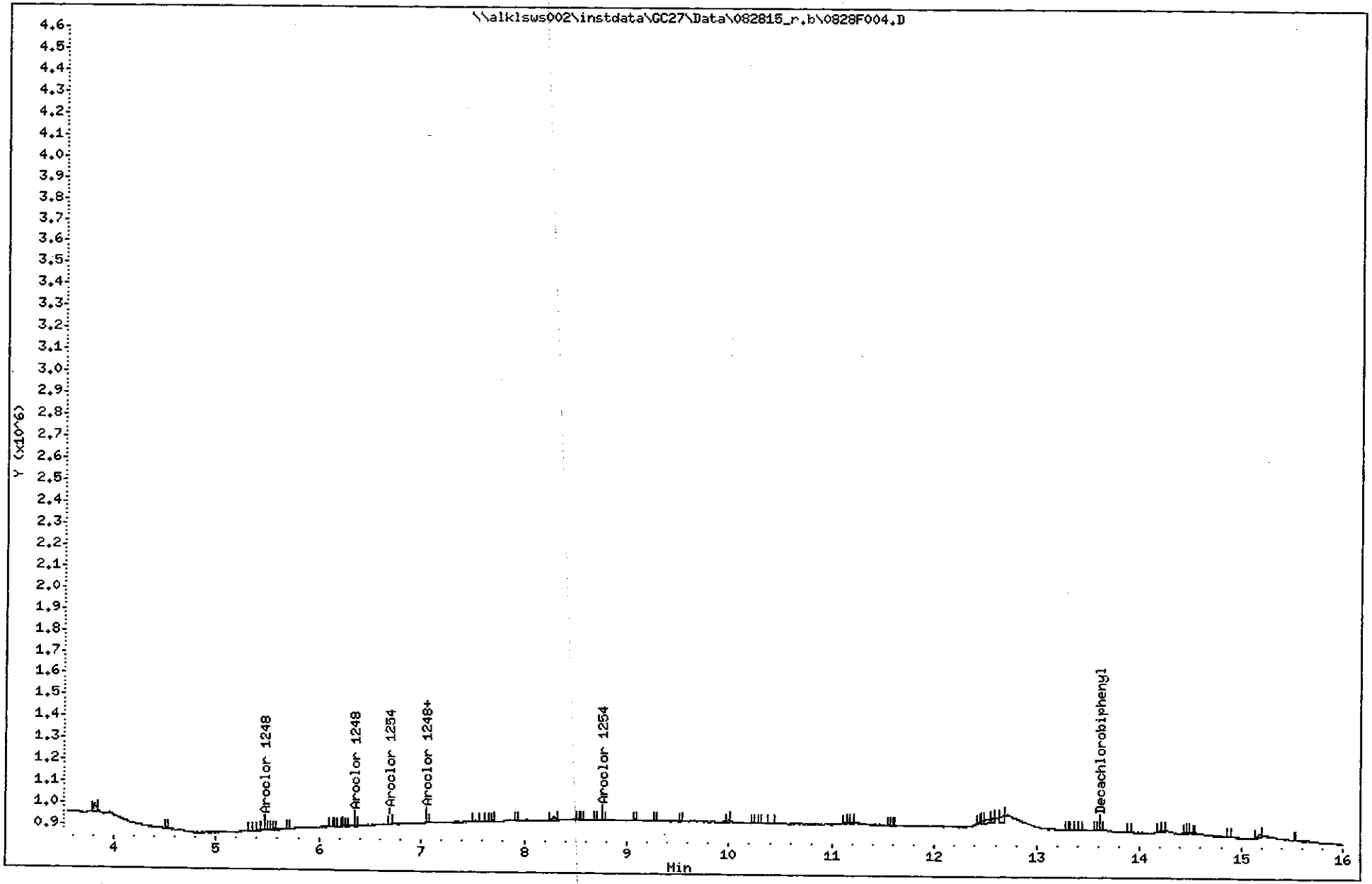
Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F004.D
Date : 28-AUG-2015 13:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F015.D
Lab ID: KWG1508233-3
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:09
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:07
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F015.D	**Date Acquired:**	08/28/2015 18:09
Lab ID:	KWG1508233-3	**Date Quantitated:**	08/29/2015 18:33
RunType:	CCV	**Batch ID:**	KWG1508233
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:10
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D			**Vial:**	1
Acqu Date:	08/28/2015 18:09	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9780108	3550937	55.25	45.15			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.63	8357027	4083699	52.85	49.59			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	473.75	401.62			
Aroclor 1016 {1}	4.24	4.62	1773203	753154	494.07	409.74			
Aroclor 1016 {2}	4.75	4.96	1502513	995140	501.49	408.75			
Aroclor 1016 {3}	4.94	5.59	4508802	1163807	455.85	388.03			
Aroclor 1016 {4}	5.21	5.93	2299048	880502	463.40	401.14			
Aroclor 1016 {5}	5.51	6.12	2349781	863313	453.94	400.42			
Aroclor 1260			0	0	492.51	473.28			
Aroclor 1260 {1}	7.08	7.84	4559419	967078	462.86	438.41			
Aroclor 1260 {2}	8.10	9.27	4012343	1785601	494.51	472.40			
Aroclor 1260 {3}	8.65	9.72	4089432	1723938	496.83	477.70			
Aroclor 1260 {4}	9.11	10.40	9314317	4205573	495.48	487.07			
Aroclor 1260 {5}	9.90	11.04	7275988	2741408	512.87	490.82			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D
Inj Date : 28-AUG-2015 18:09
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

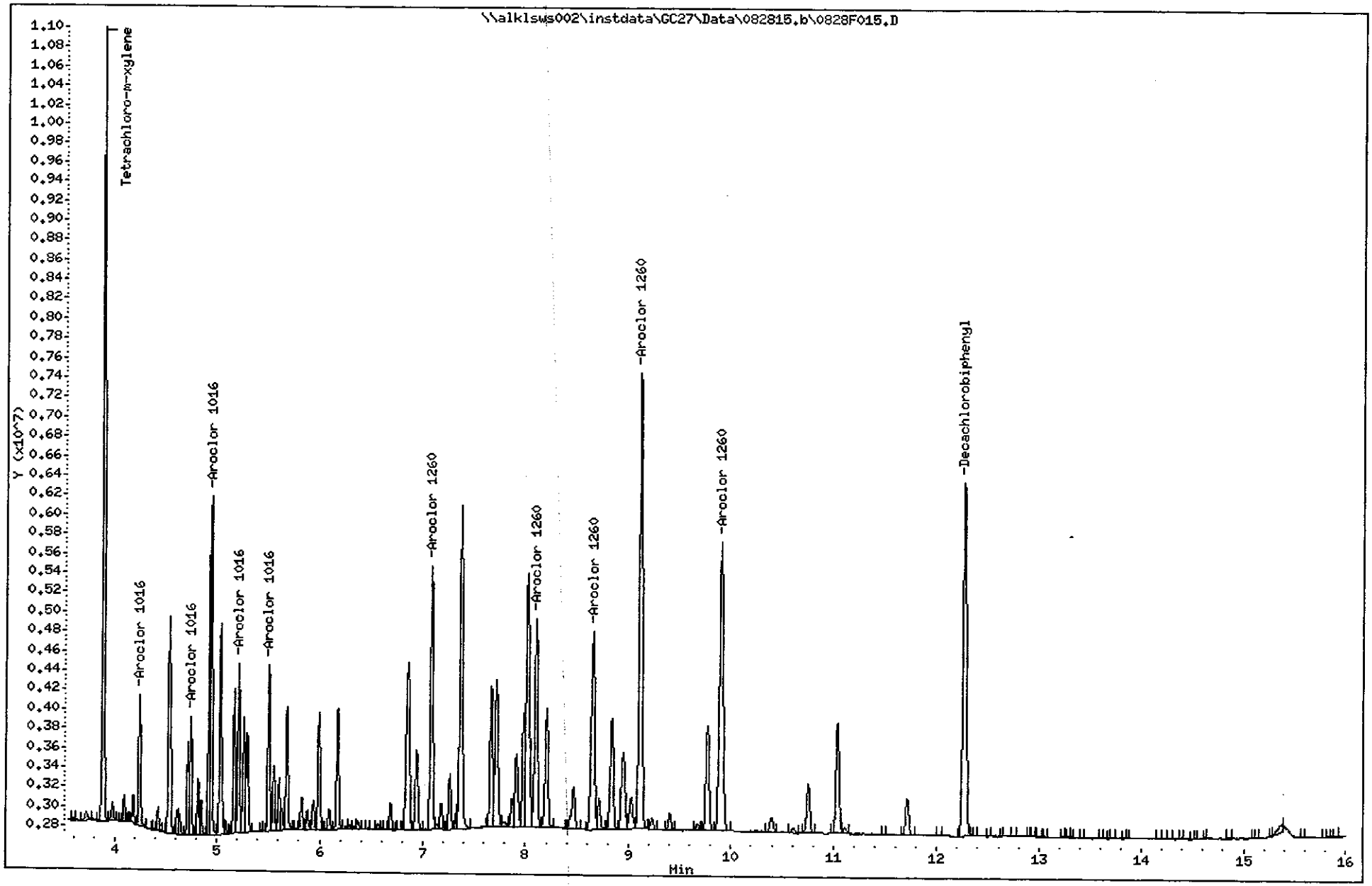
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.883	4.340	9780108	3550937	55.2	45.1		100.00
Aroclor 1016	4.243	4.623	1773203	753154	494	410	80.00- 120.00	100.00
	4.747	4.957	1502513	995140	501	409	63.82- 95.72	84.73
	4.940	5.593	4508802	1163807	456	388	185.63- 278.45	254.27
	5.213	5.927	2299048	880502	463	401	98.37- 147.56	129.66
	5.507	6.120	2349781	863313	454	400	100.21- 150.31	132.52
		Average of Peak Amounts =			474	402		
Aroclor 1260	7.080	7.837	4559419	967078	463	438	80.00- 120.00	100.00
	8.100	9.273	4012343	1785601	495	472	70.49- 105.74	88.00
	8.653	9.723	4089432	1723938	497	478	71.38- 107.06	89.69
	9.113	10.400	9314317	4205573	495	487	164.52- 246.79	204.29
	9.900	11.037	7275988	2741408	513	491	127.82- 191.73	159.58
		Average of Peak Amounts =			493	473		
Decachlorobiphenyl	12.267	13.630	8357027	4083699	52.8	49.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F015.D
Date : 28-AUG-2015 18:09
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

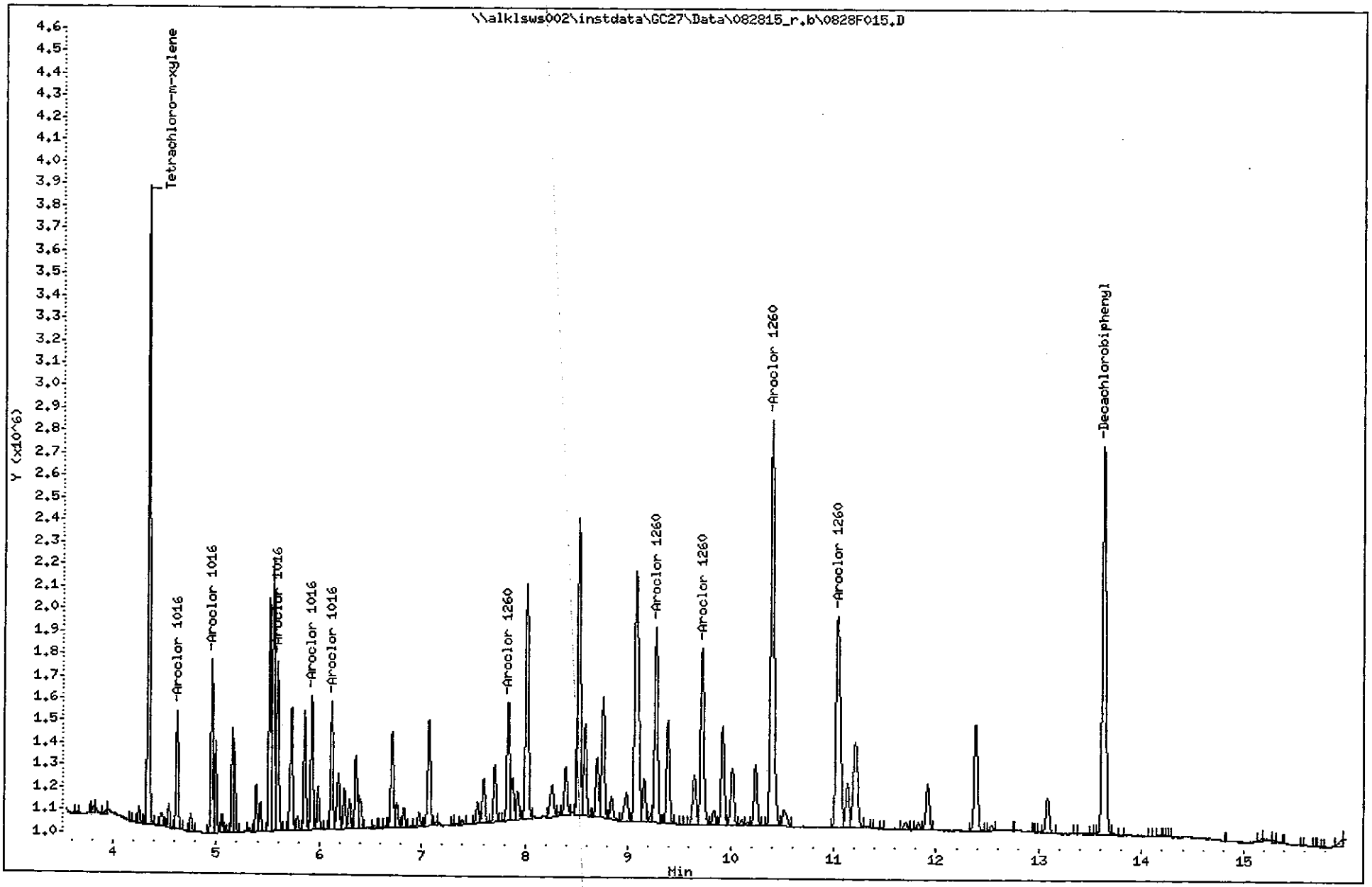


Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F015.D
Date : 28-AUG-2015 18:09
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\0828F016.D
Lab ID: KWG1508233-4
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:33
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:13
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\082815_R.B\0828F016.D
Lab ID: KWG1508233-4
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 08/28/2015 18:33
Date Quantitated: 08/29/2015 18:33
Batch ID: KWG1508233
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 08/29/2015 18:39:17
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\082815.B\0828F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D			**Vial:**	2
Acqu Date:	08/28/2015 18:33	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508233	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\082815.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24		8310	0	0.0530	0.0000			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	1.33			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\082815.B\0828F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D			**Vial:**	2
Acqu Date:	08/28/2015 18:33	**Quant Date:**	08/29/2015 18:33	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508233-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}		5.52	0	3030	0.0000	0.9200			
Aroclor 1242 {3}		5.69	0	2740	0.0000	1.56			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}		6.82	0	3019	0.0000	1.49			
Aroclor 1248			0	0	0.0000	1.43			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}		5.52	0	3030	0.0000	1.18			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}		6.35	0	2662	0.0000	1.11			
Aroclor 1248 {5}		7.05	0	8529	0.0000	2.00			
Aroclor 1254			0	0	4.19	2.11			
Aroclor 1254 {1}	6.26	6.70	9715	4602	2.50	1.25			
Aroclor 1254 {2}		7.05	0	8529	0.0000	1.47			
Aroclor 1254 {3}		7.12	0	5075	0.0000	2.62			
Aroclor 1254 {4}	7.13	8.01	13537	6986	1.42	3.08			
Aroclor 1254 {5}	7.74		54800	0	8.66	0.0000			
Aroclors, Total			26017	19191	4.19	5.94	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	1.08			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}		9.72	0	3098	0.0000	0.7650			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}		11.05	0	7767	0.0000	1.16			
Aroclor 1262 {5}		12.37	0	4805	0.0000	1.32			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Report Date: 29-Aug-2015 18:33

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D
Inj Date : 28-AUG-2015 18:33
Sample Info: IB
Misc Info :
Cal Date : 29-AUG-2015 17:59
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\082815.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\082815_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	0.000	0.000	0	0	0.000	0.000		
	0.000	5.523	0	3030	0.000	0.920		
	0.000	5.693	0	2740	0.000	1.56		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.823	0	3019	0.000	1.49		
		Average of Peak Amounts =			0.000	1.32		
Aroclor 1248	0.000	0.000	0	0	0.000	0.000		
	0.000	5.523	0	3030	0.000	1.17		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.350	0	2662	0.000	1.11		
	0.000	7.053	0	8529	0.000	2.00		
		Average of Peak Amounts =			0.000	1.43		
Aroclor 1254	6.260	6.703	9715	4602	2.50	1.25	80.00- 120.00	100.00(T)
	0.000	7.053		8529		1.47	126.24- 189.36	185.33(T)
	0.000	7.120		5075		2.62	43.97- 65.96	110.28(T)
	7.130	8.007	13537	6986	1.42	3.08	1126.72-1690.08	139.34(T)
	7.740	0.000	54800		8.65		281.12- 421.67	564.08(T)
		Average of Peak Amounts =			4.19	2.11		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000		
	0.000	9.720	0	3098	0.000	0.765		
	0.000	0.000	0	0	0.000	0.000		
	0.000	11.047	0	7767	0.000	1.16		
	0.000	12.370	0	4805	0.000	1.32		
		Average of Peak Amounts =			0.000	1.08		
Decachlorobiphenyl	12.243	0.000	8310	0	0.0526	0.000		100.00
Aroclors, Total	0.000	0.000	26017	19191	4.19	5.94		0.00

Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Report Date: 29-Aug-2015 18:33

QC Flag Legend

T - Target compound detected outside RT window.

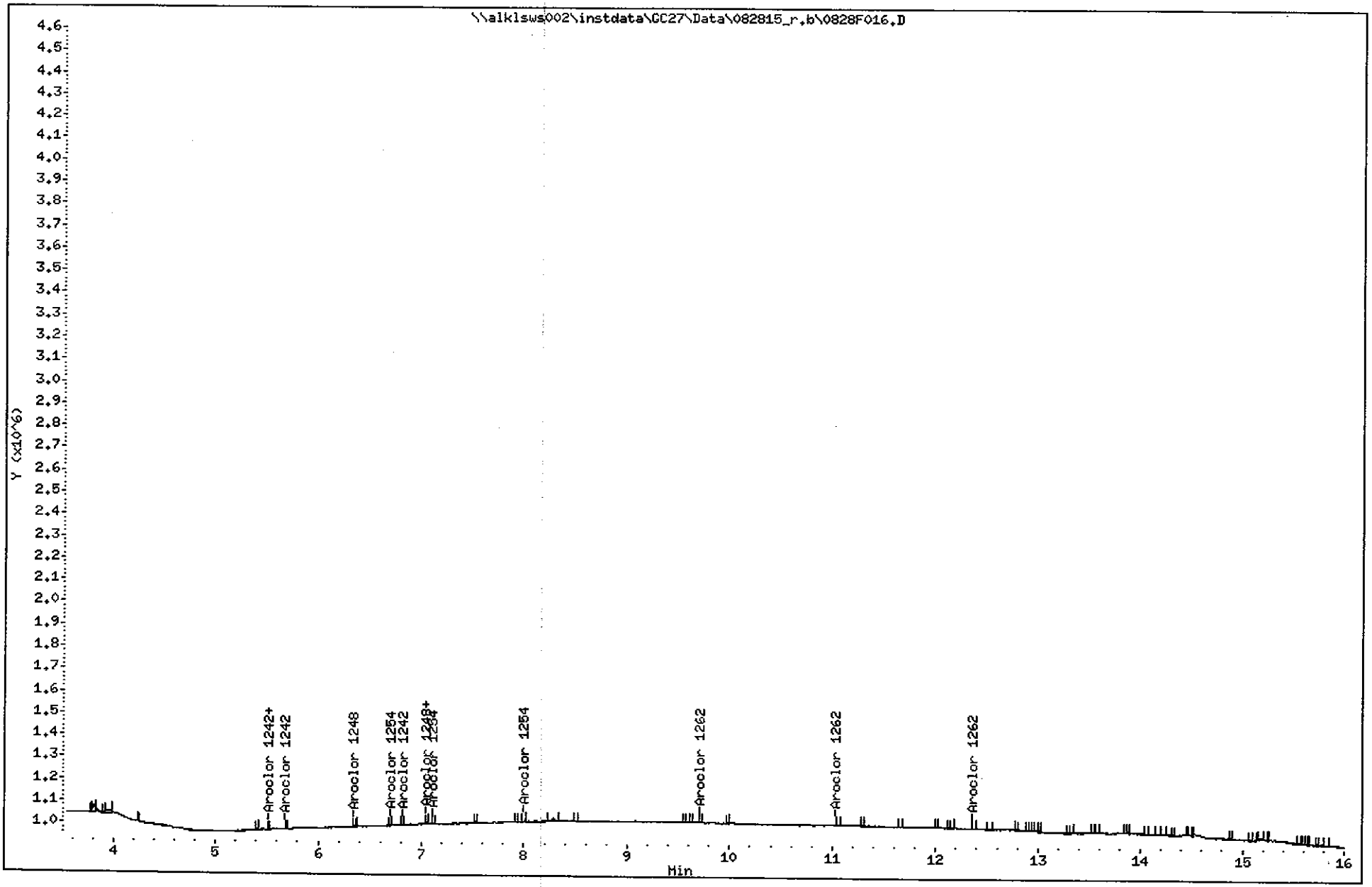
Data File: \\alklsws002\instdata\GC27\Data\082815_r.b\0828F016.D
Date : 28-AUG-2015 18:33
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



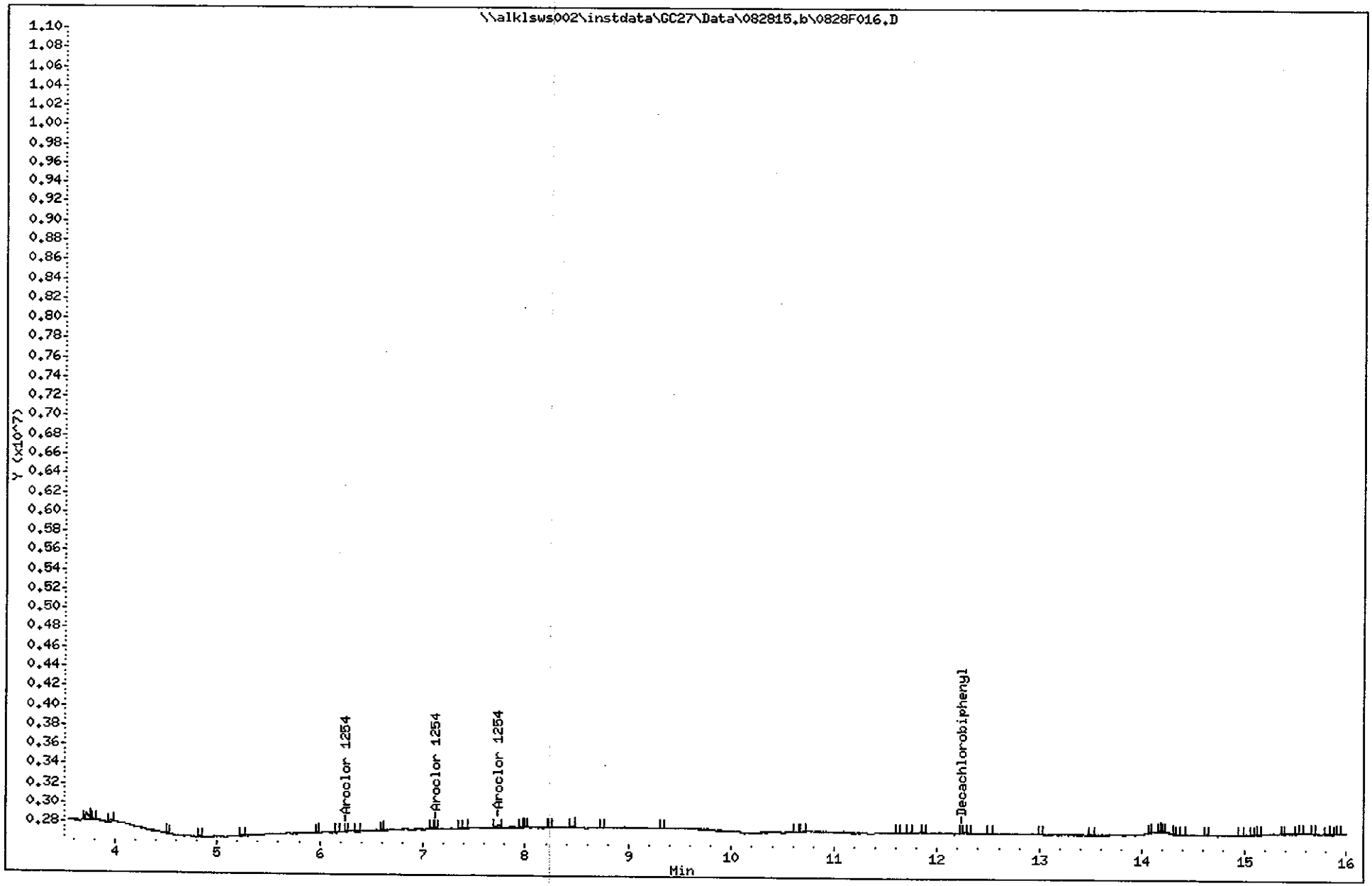
Data File: \\alklsws002\instdata\GC27\Data\082815.b\0828F016.D
Date : 28-AUG-2015 18:33
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



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October 13, 2015

Analytical Report for Service Request No: K1510507

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Oregon Steel Riverbank SCM

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 22, 2015
For your reference, these analyses have been assigned our service request number **K1510507.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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ALS Group USA, Corp
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State Certifications, Accreditations, And Licenses
Case Narrative
Chain of Custody
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Metals
Polychlorinated Biphenyls (PCBs)
Raw Data
- Total Solids
- Metals
- Polychlorinated Biphenyls (PCBs)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Received:**	09/22/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 09/22/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Manganese for the Batch QC sample were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Cadmium in the Batch QC sample was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria were not met for Aroclor 1260 in CAL 13624. The data quality was not affected. No further corrective action was necessary

Elevated Detection Limits:
This sample required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Approved by_____

Sample Notes and Discussion:
Three Aroclors were identified in this sample: Aroclor 1248, Aroclor 1254, and Aroclor 1260. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Aroclor 1260 was identified based on the presence of late eluting PCB peaks in the chromatogram. The remainder of the PCB pattern was identified as Aroclor 1254 because PCB peak height in the middle of the chromatogram was larger than could be attributed to either Aroclor 1242, Aroclor 1248, or Aroclor 1260.

When Aroclor mixtures are present in a sample, care is taken to minimize the possibility of double-counting PCBs. Analytical peaks are selected based on the best resolution possible for that particular sample. However, when a mixture of Aroclors 1248, 1254 and 1260 are present in a sample, the potential exists for a high bias from contribution of one Aroclor to another due to common peaks or peaks that cannot be completely resolved.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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K1510507

CHAIN OF CUSTODY FORM

Project: EVRAZ OREGON STEEL RIVERBANK SCM

Samplers: Jane Sund, Craig Heimbucher

Integral Contact: Glenn Eisler
Phone 503-943-3617

Ship to: Lab Name ALS Kelso
Address 1317 S. 13th Ave
Kelso, WA 98626

Contact Greg Salata
Phone 360 + 501-3376

integral consulting inc.

ANALYSES REQUESTED

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors 8082 A	Metals Total (6010, 7471) As, Cd, Cr, Cu, Pb, Mn, Zn, Hg							Extra Container	Archive	Comments
BF-5	2015-2011	9/21/15	1445	SL	X	X									

9/22/15

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Shipped by: ALS courier **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) **Date/Time:** 9/22/15 0730 **Received by:** K. Reed (signature) **Date/Time:** 9/22/15 13:40

Relinquished by: (signature) **Date/Time:** **Received by:** (signature) **Date/Time:**

Special Instructions: Analyze metals for: As, Cd, Cr, Cu, Pb, Mn, Zn, Hg

ALS

PC Greg

Cooler Receipt and Preservation Form

Client / Project: EVRAZ Service Request *K15* 10507

Received: 9/22/15 Opened: 9/22/15 By: KR Unloaded: 9/22/15 By: KK

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1F 1B

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.5	-0.5	0.5	0.5	0	355			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Total Solids

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Collected:**	09/16/15
Sample Matrix:	Soil	**Date Received:**	09/22/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
BF-5	K1510507-001	**94.6**	-	-	1	10/01/15 10:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project	Evraz Oregon Steel Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1510472-002DUP	-	-	89.8	88.8	89.3	1	20	10/01/15
Batch QC	K1510508-003DUP	-	-	69.3	70.0	69.7	1	20	10/01/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals

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Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1510507
Project No.: NA
Date Collected: 09/16/15
Project Name: Evraz Oregon Steel Riverbank SCM
Date Received: 09/22/15
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: BF-5
Lab Code: K1510507-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.44	0.04	5.0	09/25/15	10/05/15	4.24		
Cadmium	6020A	0.018	0.006	5.0	09/25/15	10/05/15	0.804		*
Chromium	6020A	0.18	0.05	5.0	09/25/15	10/05/15	276		
Copper	6020A	0.09	0.04	5.0	09/25/15	10/05/15	44.6		
Lead	6020A	0.04	0.02	5.0	09/25/15	10/05/15	68.0		
Manganese	6020A	17.8	0.36	100.0	09/25/15	10/05/15	4660		
Mercury	7471B	0.020	0.002	1.0	10/07/15	10/07/15	0.069		
Zinc	6020A	0.4	0.2	5.0	09/25/15	10/05/15	587		

% Solids: 94.6

Comments:

Metals
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INORGANIC ANALYSIS DATA PACKAGE

Client:	Integral Consulting, Incorporate	**Service Request:**	K1510507
Project No.:	NA	**Date Collected:**	09/21/15
Project Name:	Evraz Oregon Steel Riverbank SCM	**Date Received:**	09/23/15
Matrix:	SOIL	**Units:**	mg/Kg
		Basis:	DRY

Sample Name: STA-1-4A-1 **Lab Code:** K1510571-001

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7471B	0.020	0.002	1.0	10/07/15	10/07/15	0.575		

% Solids: 79.3

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1510507
Project No.: NA
Date Collected:
Project Name: Evraz Oregon Steel Riverbank SCM
Date Received:
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1510753-03

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Arsenic	6020A	0.50	0.04	5.0	09/25/15	10/05/15	0.04	U	
Cadmium	6020A	0.020	0.007	5.0	09/25/15	10/05/15	0.007	U	*
Chromium	6020A	0.20	0.06	5.0	09/25/15	10/05/15	0.06	U	
Copper	6020A	0.10	0.04	5.0	09/25/15	10/05/15	0.04	U	
Lead	6020A	0.05	0.02	5.0	09/25/15	10/05/15	0.02	U	
Manganese	6020A	1.00	0.02	5.0	09/25/15	10/05/15	0.02	J	
Zinc	6020A	0.5	0.2	5.0	09/25/15	10/05/15	0.2	U	

% Solids: 100.0

Comments:

Metals
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Integral Consulting, Incorporate
Service Request: K1510507
Project No.: NA
Date Collected:
Project Name: Evraz Oregon Steel Riverbank SCM
Date Received:
Matrix: SOIL
Units: mg/Kg
Basis: DRY

Sample Name: Method Blank
Lab Code: KQ1511382-04

Analyte	Analysis Method	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7471B	0.020	0.002	1.0	10/07/15	10/07/15	0.010	J	

% Solids: 100.0

Comments:

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic	25.0	26.2	105	25.0	25.5	102	25.5	102	6020A
Cadmium	12.5	13.1	105	25.0	24.9	100	25.1	100	6020A
Chromium	10.0	10.3	103	25.0	25.0	100	25.4	102	6020A
Copper	12.5	12.8	102	25.0	25.2	101	24.9	100	6020A
Lead	25.0	25.9	104	25.0	25.0	100	24.9	100	6020A
Manganese	25.0	26.0	104	25.0	25.9	104	25.9	104	6020A
Mercury	5.00	4.95	99	5.00	5.04	101	5.23	105	7471B
Zinc	25.0	25.9	104	25.0	25.3	101	24.7	99	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	25.8	103	25.7	103	6020A
Cadmium				25.0	25.2	101	25.2	101	6020A
Chromium				25.0	25.2	101	24.9	100	6020A
Copper				25.0	25.0	100	25.4	102	6020A
Lead				25.0	24.9	100	24.7	99	6020A
Manganese				25.0	25.7	103	25.4	102	6020A
Mercury				5.00	5.29	106	5.37	107	7471B
Zinc				25.0	25.1	100	25.3	101	6020A

Metals
- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICV Source: Inorganic Ventures **CCV Source:** ALS MIXED

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	Method
Arsenic				25.0	25.2	101			6020A
Cadmium				25.0	25.1	100			6020A
Chromium				25.0	25.1	100			6020A
Copper				25.0	25.3	101			6020A
Lead				25.0	24.6	98			6020A
Manganese				25.0	26.4	106			6020A
Mercury				5.00	5.38	108			7471B
Zinc				25.0	25.8	103			6020A

Metals

- 2a -

LOW LEVEL INITIAL CALIBRATION AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Client: Integral Consulting, Incorporated **SDG No.:** K1510507

Contract: **Lab Code:** ALSK **Case No.:** **SAS No.:**

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: ALS MIXED

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICVS1									
	Arsenic	0.97	1.0	97	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Cadmium	0.044	0.04	110	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Chromium	0.43	0.4	108	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Copper	0.21	0.2	105	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Lead	0.103	0.10	103	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Manganese	0.100	0.10	100	70.0 - 130.0	MS	10/05/15	17:48	100515B
	Zinc	1.02	1.0	102	70.0 - 130.0	MS	10/05/15	17:48	100515B
LLCCVS1									
	Arsenic	1.10	1.0	110	70.0 - 130.0	MS	10/05/15	19:27	100515B
	Cadmium	0.042	0.04	105	70.0 - 130.0	MS	10/05/15	19:27	100515B
	Chromium	0.43	0.4	108	70.0 - 130.0	MS	10/05/15	19:27	100515B
	Copper	0.21	0.2	105	70.0 - 130.0	MS	10/05/15	19:27	100515B
	Lead	0.095	0.10	95	70.0 - 130.0	MS	10/05/15	19:27	100515B
	Zinc	0.95	1.0	95	70.0 - 130.0	MS	10/05/15	19:27	100515B
LLCCVS1									
	Manganese	2.071	2.00	104	70.0 - 130.0	MS	10/05/15	19:39	100515B
LLCCVS2									
	Arsenic	1.11	1.0	111	70.0 - 130.0	MS	10/05/15	21:02	100515B
	Cadmium	0.034	0.04	85	70.0 - 130.0	MS	10/05/15	21:02	100515B
	Chromium	0.42	0.4	105	70.0 - 130.0	MS	10/05/15	21:02	100515B
	Copper	0.23	0.2	115	70.0 - 130.0	MS	10/05/15	21:02	100515B
	Lead	0.101	0.10	101	70.0 - 130.0	MS	10/05/15	21:02	100515B
	Zinc	1.07	1.0	107	70.0 - 130.0	MS	10/05/15	21:02	100515B
LLCCVS2									
	Manganese	2.130	2.00	106	70.0 - 130.0	MS	10/05/15	21:06	100515B

Metals

- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury				0.20	0.201	100		

Metals

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BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic	0.08	U	0.08	U	0.08	U	0.08	U	6020A
Cadmium	0.014	U	0.014	U	0.014	U	0.014	U	6020A
Chromium	0.12	U	0.12	U	0.12	U	0.12	U	6020A
Copper	0.08	U	0.08	U	0.08	U	0.08	U	6020A
Lead	0.04	U	0.04	U	0.04	U	0.04	U	6020A
Manganese	0.04	U	0.04	U	0.05	J	0.04	U	6020A
Mercury	0.020	U	0.020	U	0.020	U	0.020	U	7471B
Zinc	0.4	U	0.4	U	0.4	U	0.4	U	6020A

Metals

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BLANKS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Method
Arsenic			0.08	U	0.08	U			6020A
Cadmium			0.014	U	0.014	U			6020A
Chromium			0.12	U	0.12	U			6020A
Copper			0.08	U	0.08	U			6020A
Lead			0.04	U	0.04	U			6020A
Manganese			0.10	J	0.12	J			6020A
Mercury			0.020	U	0.020	U			7471B
Zinc			0.4	U	0.4	U			6020A

Metals

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ICP INTERFERENCE CHECK SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICP ID Number: Agilent ICPMS **ICS Source:** Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	25.0	0.1	25.4	102			
Cadmium	0.0	25.0	0.1	25.0	100			
Chromium	0.0	50.0	0.2	49.1	98			
Copper	0.0	50.0	0.3	47.3	95			
Lead	0.0		0.1	0.1				
Manganese	0.0	50.0	1.5	51.8	104			
Zinc	0.0	25.0	0.3	23.8	95			

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Units:** MG/KG

Project Name: Evraz Oregon Steel Riverbank SCM **Basis:** DRY

Matrix: SOIL **% Solids:** 85.0

Sample Name: Batch QC1S **Lab Code:** K1510571-002S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	75 - 125	136.24		76.39		58.2	103		6020A
Cadmium	75 - 125	6.078		0.079		5.8	103		6020A
Chromium	75 - 125	39.96		15.86		23.3	103		6020A
Copper	75 - 125	44.90		17.60		29.1	94		6020A
Lead	75 - 125	64.17		4.69		58.2	102		6020A
Manganese		336.60		271.06		58.2	113		6020A
Mercury	80 - 120	0.517		0.009	J	0.48	106		7471B
Zinc	75 - 125	104.8		49.5		58.2	95		6020A

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 5B -
POST SPIKE SAMPLE RECOVERY

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Units:** UG/L

Project Name: Evraz Oregon Steel Riverbank SCM **Basis:** DRY

Matrix: WATER

Sample Name: Batch QC1A **Lab Code:** K1510571-002A

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Arsenic	80 - 120	313.57		266.22		50.0	95		6020A
Cadmium	80 - 120	49.062		0.276		50.0	98		6020A
Chromium	80 - 120	103.50		55.27		50.0	96		6020A
Copper	80 - 120	107.13		61.32		50.0	92		6020A
Lead	80 - 120	62.44		16.36		50.0	92		6020A
Zinc	80 - 120	215.2		172.6		50.0	85		6020A

Metals

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DUPLICATES

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Units:** MG/KG

Project Name: Evraz Oregon Steel Riverbank SCM **Basis:** DRY

Matrix: SOIL **% Solids:** 85.0

Sample Name: Batch QC1D **Lab Code:** K1510571-002D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	20	76.39		64.94		16.2		6020A
Cadmium	20	0.079		0.064		21.0	*	6020A
Chromium	20	15.86		14.90		6.2		6020A
Copper	20	17.60		16.40		7.1		6020A
Lead	20	4.69		4.39		6.6		6020A
Manganese	20	271.06		275.08		1.5		6020A
Mercury		0.009	J	0.006	J	40.0		7471B
Zinc	20	49.5		47.3		4.5		6020A

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Aqueous LCS Source: **Solid LCS Source:** **ERA D080-540**

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C Limits		Solid (mg/kg) %R
Arsenic				99.6	106.0	69	131	106
Cadmium				182.0	197.0	74	126	108
Chromium				136.0	144.0	70	130	106
Copper				102.0	108.0	74	126	106
Lead				115.0	129.0	72	129	112
Manganese				323.0	346.0	75	125	107
Mercury				19.9	22.1	51	148	111
Zinc				161.0	166.0	81	119	103

Metals

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ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Units:** UG/L

Project Name: Evraz Oregon Steel Riverbank SCM

Sample Name: Batch QC1L **Lab Code:** K1510571-002L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	266.00		268.00		0.8		MS
Cadmium	0.276		0.294		6.5		MS
Chromium	55.30		56.10		1.4		MS
Copper	61.30		65.00		6.0		MS
Lead	16.40		17.30		5.5		MS
Zinc	173.0		178.0		2.9		MS

Metals

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ICP SERIAL DILUTIONS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Units:** UG/L

Project Name: Evraz Oregon Steel Riverbank SCM

Sample Name: STA-1-4C-1L **Lab Code:** K1510571-009L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Mercury	7.40		8.10		9.5		CV

Metals

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DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICP/ICP-MS ID #:

GFAA ID #: **AA ID #:**

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Mercury	253.7		0.20	0.02	CV

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICP/ICP-MS ID #: **Agilent ICPMS**

GFAA ID #: **AA ID #:**

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		1.00	0.08	MS
Cadmium	111		0.040	0.014	MS
Chromium	52		0.40	0.12	MS
Copper	65		0.20	0.08	MS
Lead	208		0.10	0.04	MS
Manganese	55		2.00	0.04	MS
Zinc	66		1.0	0.4	MS

Comments:

Metals
-12-
ICP LINEAR RANGES (QUARTERLY)

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

ICP ID Number: Agilent ICPMS

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	1.000	3000	6020A
Cadmium	1.000	3000	6020A
Chromium	0.300	3000	6020A
Copper	0.300	3000	6020A
Lead	0.300	3000	6020A
Manganese	0.300	3000	6020A
Zinc	0.300	3000	6020A

Comments:

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Method: MS

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1510507-001	09/25/15	1.19	100.0
K1510571-002D	09/25/15	2.03	100.0
K1510571-002S	09/25/15	2.02	100.0
KQ1510753-03	09/25/15	1.00	100.0
KQ1510753-04	09/25/15	1.01	100.0

Metals
-13-
PREPARATION LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA

Project Name: Evraz Oregon Steel Riverbank SCM

Method: CV

Sample ID	Preparation Date	Initial Weight (g)	Final Volume(mL)
K1510507-001	10/07/15	0.54	50.0
K1510571-001	10/07/15	0.63	50.0
K1510571-002D	10/07/15	0.62	50.0
K1510571-002S	10/07/15	0.62	50.0
KQ1511382-04	10/07/15	0.50	50.0
KQ1511382-08	10/07/15	0.25	50.0

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Run Number:** 100515B

Project Name: Evraz Oregon Steel Riverbank SCM

Instrument ID Number: Agilent ICPMS **Method:** MS

Start Date: 10/05/15 **End Date:** 10/05/15

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Blank	1.0	17:21				X			X		X		X		X		X									X	
25ppb	1.0	17:25				X			X		X		X		X		X									X	
ICV1	1.0	17:29				X			X		X		X		X		X									X	
ZZZZZZ	1.0	17:33																									
CCV1	1.0	17:37				X			X		X		X		X		X									X	
ICB1	1.0	17:40				X			X		X		X		X		X									X	
CCB1	1.0	17:44				X			X		X		X		X		X									X	
LLICVS1	1.0	17:48				X			X		X		X		X		X									X	
ZZZZZZ	1.0	17:52																									
ZZZZZZ	1.0	17:56																									
ICS-A1	1.0	17:59				X			X		X		X		X		X									X	
ICS-AB1	1.0	18:03				X			X		X		X		X		X									X	
KQ1510753-03	5.0	18:07				X			X		X		X		X		X									X	
KQ1510753-04	20.0	18:11				X			X		X		X		X		X									X	
ZZZZZZ	100.0	18:15																									
K1510507-001	100.0	18:19															X										
ZZZZZZ	100.0	18:23																									
ZZZZZZ	100.0	18:26																									
K1510571-002D	100.0	18:30															X										
K1510571-002L	5.0	18:34															X										
K1510571-002A	100.0	18:38															X										
K1510571-002S	100.0	18:42															X										
CCV2	1.0	18:45				X			X		X		X		X		X									X	
CCB2	1.0	18:49				X			X		X		X		X		X									X	
ZZZZZZ	100.0	18:53																									
ZZZZZZ	100.0	18:57																									
ZZZZZZ	100.0	19:01																									
ZZZZZZ	100.0	19:04																									
ZZZZZZ	100.0	19:08																									
ZZZZZZ	100.0	19:12																									
ZZZZZZ	100.0	19:16																									
CCV3	1.0	19:20				X			X		X		X		X		X									X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Run Number:** 100515B

Project Name: Evraz Oregon Steel Riverbank SCM

Instrument ID Number: Agilent ICPMS **Method:** MS

Start Date: 10/05/15 **End Date:** 10/05/15

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.0	19:23				X			X		X		X		X		X									X	
LLCCVS1	1.0	19:27				X			X		X		X		X											X	
ZZZZZZ	1.0	19:31																									
ZZZZZZ	1.0	19:35																									
LLCCVS1	1.0	19:39															X										
ZZZZZZ	5.0	19:42																									
K1510507-001	5.0	19:46				X			X		X		X		X											X	
ZZZZZZ	5.0	19:50																									
ZZZZZZ	5.0	19:54																									
K1510571-002D	5.0	19:58				X			X		X		X		X											X	
K1510571-002L	5.0	20:01				X			X		X		X		X											X	
K1510571-002A	1.0	20:05				X			X		X		X		X											X	
K1510571-002S	5.0	20:09				X			X		X		X		X											X	
ZZZZZZ	5.0	20:13																									
ZZZZZZ	5.0	20:17																									
CCV4	1.0	20:20				X			X		X		X		X		X									X	
CCB4	1.0	20:24				X			X		X		X		X		X									X	
ZZZZZZ	5.0	20:28																									
ZZZZZZ	5.0	20:32																									
ZZZZZZ	5.0	20:36																									
ZZZZZZ	5.0	20:39																									
ZZZZZZ	5.0	20:43																									
CCV5	1.0	20:47				X			X		X		X		X		X									X	
CCB5	1.0	20:51				X			X		X		X		X		X									X	
ZZZZZZ	1.0	20:55																									
ZZZZZZ	1.0	20:58																									
LLCCVS2	1.0	21:02				X			X		X		X		X											X	
LLCCVS2	1.0	21:06															X										
ZZZZZZ	1.0	21:10																									
ZZZZZZ	1.0	21:14																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
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ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Run Number:** 100715B HG2

Project Name: Evraz Oregon Steel Riverbank SCM

Instrument ID Number: K-CVAA-02 **Method:** CV

Start Date: 10/07/15 **End Date:** 10/07/15

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Calibration Blank	1.0	14:21																X									
Standard #1	1.0	14:23																X									
Standard #2	1.0	14:25																X									
Standard #3	1.0	14:26																X									
Standard #4	1.0	14:28																X									
Standard #5	1.0	14:29																X									
ICV1	1.0	14:31																X									
ICB1	1.0	14:33																X									
CRDL1	1.0	14:34																X									
CCV1	1.0	14:36																X									
CCB1	1.0	14:38																X									
KQ1511382-04	1.0	14:39																X									
ZZZZZZ	1.0	14:41																									
KQ1511382-08	50.0	14:42																X									
K1510507-001	1.0	14:44																X									
ZZZZZZ	1.0	14:46																									
ZZZZZZ	1.0	14:47																									
ZZZZZZ	1.0	14:49																									
ZZZZZZ	1.0	14:50																									
ZZZZZZ	1.0	14:52																									
K1510571-001	1.0	14:54																X									
CCV2	1.0	14:55																X									
CCB2	1.0	14:57																X									
ZZZZZZ	1.0	14:59																									
K1510571-002D	1.0	15:00																X									
K1510571-002S	1.0	15:02																X									
ZZZZZZ	1.0	15:03																									
ZZZZZZ	1.0	15:05																									
ZZZZZZ	1.0	15:07																									
ZZZZZZ	1.0	15:08																									
ZZZZZZ	1.0	15:10																									
ZZZZZZ	1.0	15:11																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -

ANALYSIS RUN LOG

Client: Integral Consulting, Incorporate **Service Request:** K1510507

Project No.: NA **Run Number:** 100715B HG2

Project Name: Evraz Oregon Steel Riverbank SCM

Instrument ID Number: K-CVAA-02 **Method:** CV

Start Date: 10/07/15 **End Date:** 10/07/15

Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	15:13																									
CCV3	1.0	15:15																X									
CCB3	1.0	15:16																X									
ZZZZZZ	1.0	15:18																									
ZZZZZZ	1.0	15:20																									
ZZZZZZ	1.0	15:21																									
ZZZZZZ	1.0	15:23																									
ZZZZZZ	1.0	15:24																									
ZZZZZZ	1.0	15:26																									
ZZZZZZ	1.0	15:28																									
ZZZZZZ	1.0	15:29																									
ZZZZZZ	1.0	15:31																									
ZZZZZZ	1.0	15:32																									
CCV4	1.0	15:34																X									
CCB4	1.0	15:36																X									
K1510571-009L	5.0	15:38																X									
CCV5	1.0	15:40																X									
CCB5	1.0	15:42																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract:

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1510507

ICP-MS Instrument ID: Agilent ICPMS Start Date: 10/05/2015 End Date: 10/05/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge 72_H2	Q	Element Ge 72_He	Q	Element In115_He	Q	Element Lu175_He	Q	Element	Q	Element	Q
Blank	Blank	1721	100		100		100		100					
25ppb	25ppb	1725	98		100		100		98					
ICV1	ICV	1729	98		98		99		97					
ZZZZZZ	ZZZZZZ	1733												
CCV1	CCV	1737	97		96		98		97					
ICB1	ICB	1740	96		97		98		99					
CCB1	CCB	1744	95		96		97		97					
LLICVS1	LLICVS1	1748	96		95		97		97					
ZZZZZZ	ZZZZZZ	1752												
ZZZZZZ	ZZZZZZ	1756												
ICS-A1	ICSA	1759	95		95		92		95					
ICS-AB1	ICSAB	1803	99		99		96		97					
KQ1510753-03	Method Blank	1807	100		102		102		100					
KQ1510753-04	Lab Control	1811	100		100		98		97					
ZZZZZZ	ZZZZZZ	1815												
K1510507-001	BF-5	1819	98		99		99		98					
ZZZZZZ	ZZZZZZ	1823												
ZZZZZZ	ZZZZZZ	1826												
ZZZZZZ	ZZZZZZ	1830												
ZZZZZZ	ZZZZZZ	1834												
ZZZZZZ	ZZZZZZ	1838												
ZZZZZZ	ZZZZZZ	1842												
CCV2	CCV	1845	99		99		99		99					
CCB2	CCB	1849	98		99		99		98					
ZZZZZZ	ZZZZZZ	1853												
ZZZZZZ	ZZZZZZ	1857												
ZZZZZZ	ZZZZZZ	1901												
ZZZZZZ	ZZZZZZ	1904												
ZZZZZZ	ZZZZZZ	1908												
ZZZZZZ	ZZZZZZ	1912												
ZZZZZZ	ZZZZZZ	1916												
CCV3	CCV	1920	98		99		98		98					
CCB3	CCB	1923	99		99		99		98					
LLCCVS1	LLCCVS1	1927	97		98		97		96					
ZZZZZZ	ZZZZZZ	1931												
ZZZZZZ	ZZZZZZ	1935												
ZZZZZZ	ZZZZZZ	1939												
ZZZZZZ	ZZZZZZ	1942												
K1510507-001	BF-5	1946	97		97		96		97					
ZZZZZZ	ZZZZZZ	1950												
ZZZZZZ	ZZZZZZ	1954												
K1510571-002D	Batch QC1D	1958	96		99		95		98					
K1510571-002L	Batch QC1L	2001	98		99		97		97					
K1510571-002A	Batch QC1A	2005	93		97		95		97					

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: ALS Group USA, Corp. Contract:

Lab Code: ALSK Case No.: NRAS No.: SDG NO.: K1510507

ICP-MS Instrument ID: Agilent ICPMS Start Date: 10/05/2015 End Date: 10/05/2015

Sample No.	Client ID	Time	Internal Standards %RI For:											
			Element Ge 72_H2	Q	Element Ge 72_He	Q	Element In115_He	Q	Element Lu175_He	Q	Element	Q	Element	Q
K1510571-002S	Batch QC1S	2009	93		96		93		95					
ZZZZZZ	ZZZZZZ	2013												
ZZZZZZ	ZZZZZZ	2017												
CCV4	CCV	2020	97		99		98		99					
CCB4	CCB	2024	97		98		100		99					
ZZZZZZ	ZZZZZZ	2028												
ZZZZZZ	ZZZZZZ	2032												
ZZZZZZ	ZZZZZZ	2036												
ZZZZZZ	ZZZZZZ	2039												
ZZZZZZ	ZZZZZZ	2043												
CCV5	CCV	2047	96		98		99		100					
CCB5	CCB	2051	99		98		100		101					
ZZZZZZ	ZZZZZZ	2055												
ZZZZZZ	ZZZZZZ	2058												
LLCCVS2	LLCCVS2	2102	98		99		101		103					
ZZZZZZ	ZZZZZZ	2106												
ZZZZZZ	ZZZZZZ	2110												
ZZZZZZ	ZZZZZZ	2114												

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BF-5	K1510507-001	09/16/2015	09/22/2015
BF-5MS	KWG1509174-1	09/16/2015	09/22/2015
BF-5DMS	KWG1509174-2	09/16/2015	09/22/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Collected:**	09/16/2015
Sample Matrix:	Soil	**Date Received:**	09/22/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-5	**Units:**	ug/Kg
Lab Code:	K1510507-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1221	ND	U	53	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1232	ND	U	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1242	ND	U	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1248	**760**	D	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1254	**680**	D	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1260	**180**	D	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1262	ND	U	27	11	5	09/24/15	10/01/15	KWG1509174	
Aroclor 1268	ND	U	27	11	5	09/24/15	10/01/15	KWG1509174	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	43-148	10/01/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1509174-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1221	ND	U	10	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1232	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1242	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1248	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1254	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1260	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1262	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1268	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	82	43-148	09/30/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
BF-5	K1510507-001	75 D
Method Blank	KWG1509174-4	82
BF-5MS	KWG1509174-1	84
BF-5DMS	KWG1509174-2	71
Lab Control Sample	KWG1509174-3	70

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-5	**Units:**	ug/Kg
Lab Code:	K1510507-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

		BF-5MS KWG1509174-1 Matrix Spike			BF-5DMS KWG1509174-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	141	105	134	141	105	133	23-145	0	40
Aroclor 1260	180	239	105	54	237	105	52	24-148	1	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1509174

	Lab Control Sample KWG1509174-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	114	200	57	42-122
Aroclor 1260	140	200	70	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015
		Time Analyzed:	10:03

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1509174-4	**File ID:**	J:\GC27\DATA\093015.B\0930F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1509174-3	J:\GC27\DATA\093015.B\0930F005.D	09/30/15	09:40
BF-5MS	KWG1509174-1	J:\GC27\DATA\093015.B\0930F012.D	09/30/15	12:26
BF-5DMS	KWG1509174-2	J:\GC27\DATA\093015.B\0930F013.D	09/30/15	12:50
BF-5	K1510507-001	J:\GC27\DATA\100115.B\1001F006.D	10/01/15	11:22

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015
		Time Analyzed:	09:40

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1509174-3	**File ID:**	J:\GC27\DATA\093015.B\0930F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1509174-4	J:\GC27\DATA\093015.B\0930F006.D	09/30/15	10:03
BF-5MS	KWG1509174-1	J:\GC27\DATA\093015.B\0930F012.D	09/30/15	12:26
BF-5DMS	KWG1509174-2	J:\GC27\DATA\093015.B\0930F013.D	09/30/15	12:50
BF-5	K1510507-001	J:\GC27\DATA\100115.B\1001F006.D	10/01/15	11:22

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM
Service Request: K1510507
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM
Service Request: K1510507
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	55	158000	175000	10	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	3590	3570	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	3000	2990	0	NA	± 100	AverageRF
Aroclor 1016 {3}	500	480	9890	9440	-5	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4600	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4720	-9	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	480	9850	9380	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8410	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	8230	8520	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19500	4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	86100	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	1840	1750	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	2430	2280	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2660	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1980	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1920	-11	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	490	2210	2160	-2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3870	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3710	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8880	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5870	5	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F014.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	163000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3410	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	3000	2720	-9	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	9890	8270	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	4960	4280	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4480	-14	NA	± 100	AverageRF
Aroclor 1016	500	440	NA	NA	NA	-12	± 20	NA
Aroclor 1260 {1}	500	450	9850	8900	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7750	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7790	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18200	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	14200	15000	6	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F014.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	84200	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	1840	1690	-8	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	2430	2270	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	3000	2610	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1960	-11	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1930	-10	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	480	2210	2100	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	3780	3780	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	3610	3600	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8670	0	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5770	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	55	158000	174000	10	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3730	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2910	-3	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9130	-8	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4580	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4800	-7	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	480	9850	9360	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8360	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	8230	8470	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19400	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	86100	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	1840	1750	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	460	2430	2240	-8	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2620	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1970	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1930	-10	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	490	2210	2160	-2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3890	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3690	2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8890	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5870	5	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F007.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	158000	170000	8	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	3590	3480	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8820	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4380	-12	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4610	-11	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	460	9850	9040	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8060	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8240	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18900	1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14800	4	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM

Service Request: K1510507
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F007.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	85400	4	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	1840	1710	-7	NA	± 100	AverageRF
Aroclor 1016 {2}	500	460	2430	2260	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	3000	2600	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1970	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1920	-11	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	480	2210	2110	-4	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3850	2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3660	2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8780	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5760	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1509486
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1001F003.D	Continuing Calibration Verification	KWG1509486-2	10/1/2015	10:10		10/1/2015	10:10
1001F004.D	Instrument Blank	KWG1509486-1	10/1/2015	10:34		10/1/2015	10:34
1001F005.D	ZZZZZZ	ZZZZZZ	10/1/2015	10:58		10/1/2015	10:58
1001F006.D	BF-5	K1510507-001	10/1/2015	11:22		10/1/2015	11:22
1001F007.D	Continuing Calibration Verification	KWG1509486-4	10/1/2015	11:45		10/1/2015	11:45
1001F008.D	Instrument Blank	KWG1509486-3	10/1/2015	12:09		10/1/2015	12:09
1001F011.D	ZZZZZZ	ZZZZZZ	10/1/2015	15:45		10/1/2015	15:45
1001F012.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:09		10/1/2015	16:09
1001F013.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:33		10/1/2015	16:33
1001F014.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:56		10/1/2015	16:56
1001F015.D	ZZZZZZ	ZZZZZZ	10/1/2015	17:20		10/1/2015	17:20
1001F016.D	Continuing Calibration Verification	KWG1509486-6	10/1/2015	17:44		10/1/2015	17:44

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1510507
Project: Evraz Oregon Steel Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1509500
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0930F003.D	Continuing Calibration Verification	KWG1509500-2	9/30/2015	08:52		9/30/2015	08:52
0930F004.D	Instrument Blank	KWG1509500-1	9/30/2015	09:16		9/30/2015	09:16
0930F005.D	Lab Control Sample	KWG1509174-3	9/30/2015	09:40		9/30/2015	09:40
0930F006.D	Method Blank	KWG1509174-4	9/30/2015	10:03		9/30/2015	10:03
0930F007.D	ZZZZZZ	ZZZZZZ	9/30/2015	10:27		9/30/2015	10:27
0930F008.D	ZZZZZZ	ZZZZZZ	9/30/2015	10:51		9/30/2015	10:51
0930F012.D	BF-5MS	KWG1509174-1	9/30/2015	12:26		9/30/2015	12:26
0930F013.D	BF-5DMS	KWG1509174-2	9/30/2015	12:50		9/30/2015	12:50
0930F014.D	Continuing Calibration Verification	KWG1509500-4	9/30/2015	13:13		9/30/2015	13:13
0930F015.D	Instrument Blank	KWG1509500-3	9/30/2015	13:37		9/30/2015	13:37

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Oregon Steel Riverbank SCM
Sample Matrix: Soil

Service Request: K1510507
Date Extracted: 09/24/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1509174
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BF-5	K1510507-001	09/16/15	09/22/15	40.108g	4ml	94.6	
Method Blank	KWG1509174-4	NA	NA	40.215g	4ml	NA	
BF-5MS	KWG1509174-1	09/16/15	09/22/15	40.145g	4ml	94.6	
BF-5DMS	KWG1509174-2	09/16/15	09/22/15	40.138g	4ml	94.6	
Lab Control Sample	KWG1509174-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510507
Project:	Evraz Oregon Steel Riverbank SCM	**Date Collected:**	09/16/2015
Sample Matrix:	Soil	**Date Received:**	09/22/2015
		Date Extracted:	09/24/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	BF-5	**Units:**	ug/Kg
Lab Code:	K1510507-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	27	11	760	870	13.5	D	5	10/01/15
Aroclor 1254	27	11	680	800	16.2	D	5	10/01/15
Aroclor 1260	27	11	180	220	20.0	D	5	10/01/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1510472, KQ1511102, K1510477, K1510508, K1510507**	**Run #:**	**464856**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1510472-002	1.29	10.69	10.89	9.60	89.8	
	K1510472-002DUP	1.29	11.04	11.09	9.80	88.8	1
	K1510472-003	1.28	10.12	10.93	9.65	95.4	
	K1510472-004	1.32	10.16	10.62	9.30	91.5	
	K1510472-006	1.30	10.68	11.03	9.73	91.1	
	K1510472-007	1.29	11.16	11.48	10.2	91.3	
	K1510477-002	1.3061	25.7454	1.7556	0.450	1.75	
	K1510477-004	1.3052	24.3766	1.8980	0.593	2.43	
	K1510508-001	1.30	10.89	10.29	8.99	82.6	
	K1510508-002	1.30	11.48	11.05	9.75	84.9	
	K1510508-003	1.30	10.10	8.30	7.00	69.3	
	K1510508-003DUP	1.29	8.70	7.38	6.09	70.0	1
	K1510508-004	1.28	14.45	12.56	11.3	78.1	
	K1510507-001	1.29	13.31	13.88	12.6	94.6	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**K-OVEN-07**	**105**	**105**	**10/1/2015**	**10:00**	**10/2/2015**	**08:08**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-Balance-16**	**1.00, 100.00 - 0.9998, 99.9974**	**1.00, 100.00 - 0.9998, 99.9974**	**10/1/2015**	**09:44**	**10/1/2015**	**10:00**
Calibration2	**K-Balance-16**	**0.99, 99.99 - 1.0000, 99.9976**	**1.00, 99.99**	**10/2/2015**	**08:33**	**10/2/2015**	**08:37**

Comments: DJM Reviewed 10-2-15 L.J.

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 245618
Team: Metals
Analyst: Keith Linn
Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A
Status: Prepped
Current Step: Digestion
Prep Date: 09/25/2015 08:50
Due Date: 10/04/2015
Hold Date: 03/14/2016

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1510753-03	Method Blank		1.00 g		100 mL			10% HNO3, 10% HCl
KQ1510753-04	Lab Control Sample		1.01 g		100 mL	1 g	69665	10% HNO3, 10% HCl
K1510282-001	NYC #02	.01	3.12 g	As Received	100 mL			10% HNO3, 10% HCl
K1510507-001	BF-5	.02	1.19 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-001	STA-1-4A-1	.01	2.03 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-002	STA-1-4A-3	.01	2.05 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-002: KQ1510753-02	Duplicate	.01	2.03 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-002: KQ1510753-01	Matrix Spike	.01	2.02 g	As Received	100 mL	1 mL 1 mL 2 mL 1 mL	84233 84235 84306 84309	10% HNO3, 10% HCl
K1510571-003	STA-1-4E-2	.01	2.22 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-004	STA-1-4A-2	.01	2.16 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-005	STA-1-4E-1	.01	2.14 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-006	STA-1-4C-3	.01	1.97 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-007	STA-1-4E QC	.01	1.97 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-008	STA-1-4C-2	.01	1.97 g	As Received	100 mL			10% HNO3, 10% HCl
K1510571-009	STA-1-4C-1	.01	1.97 g	As Received	100 mL			10% HNO3, 10% HCl

15 Total Samples consisting of 11 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires
K-MET SOIL CRM	Spike	69665	7/31/2016
K-MET SS1	Spike	84306	7/1/2016
K-MET SS3	Spike	84309	1/14/2016
K-MET SS4	Spike	84235	9/4/2016
K-MET SS5	Spike	84233	7/16/2016

Preparation Materials

Step	Name	ID
Digestion	Teflon Chips	69101
Digestion	K-MET 100ml Centrifuge Tube	81681
Digestion	K-MET H2O2	82956
Digestion	K-MET HNO3	83195
Digestion	K-MET HCL	84123

Preparation Hardware / Equipment

Step	Name	Property	Value	
Digestion	K-Balance-02	Date Checked	9/25/15	
Digestion	K-BlockDigester-02	Corrected Temperature	95	deg C
Digestion	K-BlockDigester-02	Correction Factor	0	deg C

Step	Name	Property	Value	
Digestion	K-BlockDigester-02	Observed Temperature	95	deg C
Digestion	K-BlockDigester-02	Thermometer ID 1107973		NONE
Digestion	K-BlockDigester-02	Thermometer Location	24	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	25-SEP-15 08:50	25-SEP-15 11:55	Keith Linn		N	

Comments

1R: 15 mins, 2R: 30 mins, 3R: 15 mins.

Review

Reviewed by: _____ Date: 9/28/15

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
K-MET SS1	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
*** Add after HNO3	Mn	100*	1000ml	50	
and before cas cal	Ni	100*	1000ml	50	
-14	Sb***	50	1000ml	50	
when making the	V	100*	1000ml	50	
solution	Zn	100*	1000ml	50	
	HNO3	25.0	500ml	-	
K-MET SS2	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	10.0	500ml	20	
	Hg	6	500	12	
	HNO3	25	500ml	-	
K-MET SS4	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	
K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

CVAA Mercury Data Review Form

K-CVAA-02

Element: Hg

Analysis Lot #: 100715B HG2

Starlims # 465974

Cal. STD/CCV Source: HG2-73-I

Service Request Numbers:

K1510507, K1510570, K1510571, K1510730, K1510735

	Yes	No	NA
1) Appropriate standardization completed	X		
2) ICV within 10% of true value	X		
3) CCVs in control (+/- 10%)	X		
4) CCBs and or ICBs below MRL	X		
5) CCV/CCB check run every 10 samples	X		
6) All reported samples within calibration range	X		
7) Calculations correct	X		

Comments:

Data reviewed against service request(s) to ensure no samples were omitted: AEM (Initials)

Primary Reviewed By: AEM Date: 10/8/15

Secondary Reviewed By: JDB Date: 10/8/15

Data Review Form

Service Request #:	**K1510507**
Instrument ID#:	**K-CVAA-02**
DataFile Name:	**R:\ICP\WIP\DATA\K-CVAA-02 (QUICKTRACE)\100715B HG2.csv**
RUNNO:	**465974**

There are no issues to report.

Primary Approver: _____

Secondary Approver: JDB

CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) 7470A 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	(µg/L) Measured	Sample Actual (mg/kg)	Sample Actual (µg/L)
1	Cal. Blk.	~	50	~	0.00		0.00
2	Std 0.2	*0.1	50	~	0.20		0.20
3	Std 0.5	*0.25	50	~	0.50		0.50
4	Std 1.0	*0.5	50	~	1.00		1.00
5	Std 5.0	*2.5	50	~	5.00		5.00
6	Std 10.0	*5.0	50	~	10.00		10.00
7	ICV1	**0.25	50	~	4.950		99%
8	ICB1	~	50	~	-0.015		-0.015
9	LLICV1	*0.1	50	~	0.201		101%
10	CCV1	*2.5	50	~	5.040		101%
11	CCB1	~	50	~	-0.012		-0.012
12	KQ1511382-04	0.500	50	~	0.101	0.010	
13	KQ1511382-06	0.500	50	~	5.100		102%
14	KQ1511382-08	0.251	50	50	2.220	22.112	111%
15	K1510507-001	0.510	50	~	0.704	0.069	
16	K1510570-005	0.509	50	~	0.042	0.004	
17	K1510570-005D	0.504	50	~	0.052	0.005	
18	K1510570-005S	0.504	50	~	4.310	0.428	85%
19	K1510570-006	0.560	50	~	0.028	0.003	
20	K1510570-007	0.589	50	~	0.034	0.003	
21	K1510571-001	0.498	50	~	5.730	0.575	
22	CCV2	*2.5	50	~	5.230		105%
23	CCB2	~	50	~	-0.013		-0.013
24	K1510571-002	0.521	50	~	0.094	0.009	
25	K1510571-002D	0.530	50	~	0.067	0.006	

Comments: Cal. Inter. Std*_(100ppb)__HG2-73-I_
2nd Source Inter Std**_(1ppm)__HG2-73-A_

Soil/Tissue Spike Level: K1510570-005S=0.496 mg/kg

Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	5.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	5.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%

Analyst:	Date: 10/8/15	Page Number: 1

[100715B HG2 SOILS] HG1.XLS

CVAA Hg ANALYTICAL WORKSHEET

Method: (Circle One) 7470A 7471B 245.1	Service Request # :
Analysis For: Hg	

DATA

Pos.	SAMPLE NUMBER	Initial Sample (g) or (mL)	Initial Dilution (mL)	Dilution Factor	(µg/L) Measured	Sample Actual (mg/kg)	Sample Actual (µg/L)
26	K1510571-002S	0.526	50	~	5.440	0.517	107%
27	K1510571-003	0.536	50	~	0.182	0.017	
28	K1510571-004	0.514	50	~	0.123	0.012	
29	K1510571-005	0.510	50	~	3.360	0.329	
30	K1510571-006	0.540	50	~	0.101	0.009	
31	K1510571-007	0.526	50	~	2.180	0.207	
32	K1510571-008	0.514	50	~	0.121	0.012	
33	K1510571-009	0.520	50	~	7.430	0.714	
34	CCV3	*2.5	50	~	5.290		106%
35	CCB3	~	50	~	-0.012		-0.012
36	K1510730-001	0.503	50	~	5.130	0.510	
37	K1510735-001	0.536	50	~	0.168	0.016	
38	K1510735-001A	~	50	~	5.740		111%
39	K1510735-001S	0.533	50	~	5.380	0.505	104%
40	K1510735-001SD	0.534	50	~	5.460	0.511	106%
41	K1510735-002	0.505	50	~	0.276	0.027	
42	K1510735-003	0.504	50	~	0.258	0.026	
43	K1510735-004	0.505	50	~	0.338	0.033	
44	K1510735-005	0.517	50	~	0.188	0.018	
45	K1510735-006	0.517	50	~	0.274	0.026	
46	CCV4	*2.5	50	~	5.370		107%
47	CCB4	~	50	~	-0.004		-0.004
48	K1510571-009L	0.520	50	5	1.620		9%
49	CCV5	*2.5	50	~	5.380		108%
50	CCB5	~	50	~	-0.013		-0.013

Comments:

Soil/Tissue Spike Level: K1510571-002S=0.475; K1510735-001S=0.469, -SD=0.468 mg/kg

Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	5.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	5.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	19.9mg/kg	0.02 mg/kg	48-137%	80-120%	20%	+/- 20%
7471A Tissue Tort	0.292 mg/kg	0.02 mg/kg	74-129%	80-120%	20%	+/- 20%

Analyst:	Date: 10/8/15	Page Number: 2

[100715B HG2 SOILS] HG2.XLS

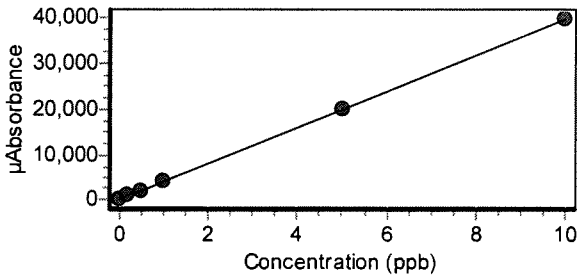
Report Generated By CETAC QuickTrace
Analyst: alkls.alklsxp196
Worksheet file: C:\Program Files\QuickTrace\Worksheets\100715B HG2.wsz
Date Started: 10/7/2015 2:08:44 PM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
Calibration Blank					STD	10/07/15 02:21:47 pm	0.000	155	23.57	
Replicates	197.8	161.1	152.5	108.8						
Standard #1					STD	10/07/15 02:23:24 pm	0.200	940	3.61	
Replicates	986.5	942.0	907.8	924.3						
Standard #2					STD	10/07/15 02:25:01 pm	0.500	2079	1.31	
Replicates	2063.2	2112.7	2088.5	2051.8						
Standard #3					STD	10/07/15 02:26:38 pm	1.000	4184	1.51	
Replicates	4251.2	4220.4	4148.9	4113.7						
Standard #4					STD	10/07/15 02:28:16 pm	5.000	19770	1.60	
Replicates	19890.1	20020.8	19861.8	19307.7						
Standard #5					STD	10/07/15 02:29:55 pm	10.000	39683	1.75	
Replicates	40024.4	40174.2	39879.6	38654.9						

Calibration

Equation: A = 155.038 + 3947.305C
R2: 0.99998
SEE: 94.6600
Flags:



ICV1					ICV	10/07/15 02:31:34 pm	4.950	19698	1.72	
Replicates	19846.0	19930.6	19822.2	19193.6						
% Recovery	99.02									
ICB1					ICB	10/07/15 02:33:10 pm	-0.015	96	6.58	
Replicates	104.4	95.5	93.5	89.5						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
LLICV1					CRDL	10/07/15 02:34:46 pm	0.201	947	3.19	
	Replicates	992.7	929.1	935.2	933.0					
	% Recovery	100.38								
CCV1					CCV	10/07/15 02:36:24 pm	5.040	20062	1.63	
	Replicates	20256.1	20277.9	20134.0	19581.4					
	% Recovery	100.87								
CCB1					CCB	10/07/15 02:38:00 pm	-0.012	108	11.02	
	Replicates	95.9	114.8	100.4	121.3					
KQ1511382-04					UNK	10/07/15 02:39:36 pm	0.101	555	2.43	
	Replicates	573.3	545.7	557.6	544.2					
KQ1511382-06					UNK	10/07/15 02:41:12 pm	5.100	20305	1.48	
	Replicates	20459.2	20529.8	20366.1	19864.7					
KQ1511382-08					UNK	10/07/15 02:42:48 pm	2.220	8905	1.64	
	Replicates	8999.9	9032.4	8877.8	8709.9					
K1510507-001					UNK	10/07/15 02:44:25 pm	0.704	2933	1.63	
	Replicates	2949.4	2986.2	2922.3	2872.5					
K1510570-005					UNK	10/07/15 02:46:02 pm	0.042	321	10.80	
	Replicates	356.9	322.8	330.2	273.8					
K1510570-005D					UNK	10/07/15 02:47:39 pm	0.052	359	7.29	
	Replicates	391.6	367.6	336.7	338.6					
K1510570-005S					UNK	10/07/15 02:49:16 pm	4.310	17186	1.03	
	Replicates	17254.3	17310.8	17255.2	16925.1					
K1510570-006					UNK	10/07/15 02:50:54 pm	0.028	264	3.25	
	Replicates	265.5	268.4	252.0	271.5					
K1510570-007					UNK	10/07/15 02:52:32 pm	0.034	288	14.47	
	Replicates	264.0	350.5	267.7	270.1					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1510571-001					UNK	10/07/15 02:54:10 pm	5.730	22782	1.06	
	Replicates	22890.0	22955.3	22860.3	22423.3					
CCV2					CCV	10/07/15 02:55:48 pm	5.230	20816	1.54	
	Replicates	20977.0	21049.3	20893.5	20344.6					
	% Recovery	104.68								
CCB2					CCB	10/07/15 02:57:24 pm	-0.013	105	7.84	
	Replicates	103.6	112.2	94.2	110.9					
K1510571-002					UNK	10/07/15 02:59:03 pm	0.094	525	3.08	
	Replicates	513.7	542.1	535.0	508.7					
K1510571-002D					UNK	10/07/15 03:00:42 pm	0.067	421	5.87	
	Replicates	406.7	434.2	394.7	448.5					
K1510571-002S					UNK	10/07/15 03:02:17 pm	5.440	21617	1.46	
	Replicates	21736.5	21894.7	21674.3	21163.8					
K1510571-003					UNK	10/07/15 03:03:53 pm	0.182	875	3.61	
	Replicates	909.2	846.4	894.4	850.0					
K1510571-004					UNK	10/07/15 03:05:28 pm	0.123	639	4.63	
	Replicates	675.0	645.4	604.4	629.6					
K1510571-005					UNK	10/07/15 03:07:05 pm	3.360	13421	0.99	
	Replicates	13434.0	13551.3	13461.3	13236.2					
K1510571-006					UNK	10/07/15 03:08:41 pm	0.101	553	2.05	
	Replicates	561.1	548.4	538.8	562.9					
K1510571-007					UNK	10/07/15 03:10:18 pm	2.180	8754	1.16	
	Replicates	8801.3	8831.8	8776.9	8604.8					
K1510571-008					UNK	10/07/15 03:11:55 pm	0.121	633	6.64	
	Replicates	621.9	622.4	693.5	595.5					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1510571-009					UNK	10/07/15 03:13:32 pm	7.430	29484	0.97	
	Replicates	29607.3	29731.0	29526.4	29073.1					
CCV3					CCV	10/07/15 03:15:10 pm	5.290	21037	1.79	
	Replicates	21244.1	21337.3	21070.3	20497.2					
	% Recovery	105.80								
CCB3					CCB	10/07/15 03:16:46 pm	-0.012	109	47.18	
	Replicates	120.0	52.6	174.8	90.2					
K1510730-001					UNK	10/07/15 03:18:24 pm	5.130	20421	0.69	
	Replicates	20520.0	20527.0	20413.1	20223.6					
K1510735-001					UNK	10/07/15 03:20:02 pm	0.168	817	2.82	
	Replicates	823.4	840.4	817.9	785.3					
K1510735-001A					UNK	10/07/15 03:21:40 pm	5.740	22794	1.69	
	Replicates	23034.4	23080.8	22816.1	22244.1					
K1510735-001S					UNK	10/07/15 03:23:18 pm	5.380	21373	1.55	
	Replicates	21556.7	21609.8	21440.6	20886.7					
K1510735-001SD					UNK	10/07/15 03:24:54 pm	5.460	21693	1.02	
	Replicates	21735.5	21913.1	21735.8	21386.8					
K1510735-002					UNK	10/07/15 03:26:30 pm	0.276	1244	1.44	
	Replicates	1266.9	1228.7	1249.8	1231.2					
K1510735-003					UNK	10/07/15 03:28:05 pm	0.258	1173	1.36	
	Replicates	1171.2	1188.7	1181.5	1151.9					
K1510735-004					UNK	10/07/15 03:29:42 pm	0.338	1488	0.61	
	Replicates	1499.3	1477.4	1485.4	1488.5					
K1510735-005					UNK	10/07/15 03:31:18 pm	0.188	899	3.35	
	Replicates	900.5	936.8	894.0	863.5					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
K1510735-006					UNK	10/07/15 03:32:55 pm	0.274	1237	2.24	
	Replicates	1198.0	1259.7	1253.2	1235.9					
CCV4					CCV	10/07/15 03:34:33 pm	5.370	21337	1.60	
	Replicates	21540.2	21554.2	21421.8	20831.6					
	% Recovery	107.32								
CCB4					CCB	10/07/15 03:36:09 pm	-0.004	140	11.48	
	Replicates	147.9	115.8	146.9	148.8					
K1510571-009L					UNK	10/07/15 03:38:20 pm	1.620	6543	1.38	
	Replicates	6583.7	6625.7	6546.5	6416.7					
CCV5					CCV	10/07/15 03:40:53 pm	5.380	21372	1.60	
	Replicates	21510.9	21645.7	21458.0	20873.8					
	% Recovery	107.50								
CCB5					CCB	10/07/15 03:42:28 pm	-0.013	105	15.31	
	Replicates	112.1	85.6	99.5	122.9					

Preparation Information Benchsheet

Prep Run: 246636 **Prep Workflow:** HgDigS **Status:** Prepped **Prep Date:** 10/07/2015 12:55
Team: Metals **Prep Method:** Method **Current Step:** Digestion **Due Date:** 10/06/2015
Analyst: AMCKORNEY **Rush/NPDES:** N/A **Hold Date:** 10/14/2015

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
								Dry weight
KQ1511382-04	Method Blank		0.500 g	AS RECEIVED	50 mL			
KQ1511382-06	Lab Control Sample		0.500 g	AS RECEIVED	50 mL	0.25 mL	84625	
KQ1511382-08	Lab Control Sample		0.251 g	AS RECEIVED	50 mL	0.25 g	69665	
K1510507-001	BF-5	.02	0.539 g	AS RECEIVED	50 mL			0.510
K1510570-005	Oil (No. 6) Low Sulfur 9/16	.01	0.509 g	AS RECEIVED	50 mL			
K1510570-005: KQ1511382-12	Duplicate	.01	0.504 g	AS RECEIVED	50 mL			
K1510570-005: KQ1511382-13	Matrix Spike	.01	0.504 g	AS RECEIVED	50 mL	0.25 mL	84625	
K1510570-006	Oil (No. 6) Low Sulfur 9/17	.01	0.560 g	AS RECEIVED	50 mL			
K1510570-007	Oil (No. 6) Low Sulfur 9/18	.01	0.589 g	AS RECEIVED	50 mL			
K1510571-001	STA-1-4A-1	.01	0.628 g	AS RECEIVED	50 mL			0.498
K1510571-002	STA-1-4A-3	.01	0.613 g	AS RECEIVED	50 mL			0.521
K1510571-002: KQ1511382-09	Duplicate	.01	0.624 g	AS RECEIVED	50 mL			0.530
K1510571-002: KQ1511382-01	Matrix Spike	.01	0.619 g	AS RECEIVED	50 mL	0.25 mL	84625	0.526
K1510571-003	STA-1-4E-2	.01	0.648 g	AS RECEIVED	50 mL			0.536
K1510571-004	STA-1-4A-2	.01	0.599 g	AS RECEIVED	50 mL			0.514
K1510571-005	STA-1-4E-1	.01	0.605 g	AS RECEIVED	50 mL			0.510
K1510571-006	STA-1-4C-3	.01	0.677 g	AS RECEIVED	50 mL			0.540
K1510571-007	STA-1-4E QC	.01	0.624 g	AS RECEIVED	50 mL			0.526
K1510571-008	STA-1-4C-2	.01	0.615 g	AS RECEIVED	50 mL			0.514
K1510571-009	STA-1-4C-1	.01	0.637 g	AS RECEIVED	50 mL			0.520
K1510730-001	AB24540	.02	2.274 g	AS RECEIVED	50 mL			0.503
K1510735-001	EDWRD-3-B01A-CP1	.01	0.564 g	AS RECEIVED	50 mL			0.536
K1510735-001: KQ1511382-10	Matrix Spike	.01	0.560 g	AS RECEIVED	50 mL	0.25 mL	84625	0.533
K1510735-001: KQ1511382-11	Duplicate Matrix Spike	.01	0.562 g	AS RECEIVED	50 mL	0.25 mL	84625	0.534

K1510735-002	EDWRD-3-B02A-CP1	.01	0.533 g	AS RECEIVED	50 mL			0.505
K1510735-003	EDWRD-3-B03A-CP1	.01	0.528 g	AS RECEIVED	50 mL			0.504
K1510735-004	EDWRD-3-B03A-CP2	.01	0.526 g	AS RECEIVED	50 mL			0.505
K1510735-005	EDWRD-3-B04A-CP1	.01	0.535 g	AS RECEIVED	50 mL			0.517
K1510735-006	EDWRD-3-B05A-CP1	.02	0.539 g	AS RECEIVED	50 mL			0.517

29 Total Samples consisting of 20 Client Samples, 6 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Hg Source Standard 1000 ug/L	Spike	84625	11/1/2015	K-MET SOIL CRM	Spike	69665	7/31/2016

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET SnCl Hg	75968	Digestion	K-MET 100ml Centrifuge Tube	81681
Digestion	K-MET KMnO4 Hg	77588	Digestion	K-MET NACl Hg	82795
Digestion	K-MET NH2OH-HCl Hg	78685	Digestion	K-MET HCl Hg	84165
Digestion	Teflon Chips	80163	Digestion	K-MET HNO3 Hg	84166

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-Balance-37	Date Checked	10/07/15		Digestion	K-BlockDigester-03	Observed Temperature	95	deg C
Digestion	K-BlockDigester-03	Correction Factor	0	deg C	Digestion	K-BlockDigester-03	Thermometer ID 1109898		NONE
Digestion	K-BlockDigester-03	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-03	Thermometer Location	21	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	07-OCT-15 12:55	07-OCT-15 13:25	AMCKORNEY		N	

Comments

CAL. STD/CCV SOURCE: HG2-73-I

Review

Reviewed by: JDB Date: 10/8/15

Preparation Information Benchsheet

Prep Run: 246636 **Prep Workflow:** HgDigS **Status:** Draft **Prep Date:** 10/07/2015 10:48
Team: Metals **Prep Method:** Method **Current Step:** Digestion **Due Date:** 09/30/2015
Analyst: AMCKORNEY **Rush/NPDES:** N/A **Hold Date:** 10/14/2015

Lab Code	Client ID	Bottle #	Target Amt	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1511382-04	Method Blank								0.500
KQ1511382-06	Lab Control Sample						0.25 mL	84625	0.500
KQ1511382-08	Lab Control Sample						0.25 g	69665	0.251
K1510507-001	BF-5	.02	0.5 g						0.559
K1510570-005	Oil (No. 6) Low Sulfur 9/16	.01							0.509
K1510570-005: KQ1511382-12	Duplicate	.01							0.504
K1510570-005: KQ1511382-13	Matrix Spike	.01					0.25 mL	84625	0.504
K1510570-006	Oil (No. 6) Low Sulfur 9/17	.01							0.560
K1510570-007	Oil (No. 6) Low Sulfur 9/18	.01							0.589
K1510571-001	STA-1-4A-1	.01	0.5 g						0.628
K1510571-002	STA-1-4A-3	.01	0.5 g						0.613
K1510571-002: KQ1511382-09	Duplicate	.01	0.5 g						0.624
K1510571-002: KQ1511382-01	Matrix Spike	.01	0.5 g				0.25 mL	84625	0.619
K1510571-003	STA-1-4E-2	.01	0.5 g						0.648
K1510571-004	STA-1-4A-2	.01	0.5 g						0.599
K1510571-005	STA-1-4E-1	.01	0.5 g						0.605
K1510571-006	STA-1-4C-3	.01	0.5 g						0.677
K1510571-007	STA-1-4E QC	.01	0.5 g						0.624
K1510571-008	STA-1-4C-2	.01	0.5 g						0.615
K1510571-009	STA-1-4C-1	.01	0.5 g						0.637
K1510730-001	AB24540	.02	0.5 g						2.274
K1510735-001	EDWRD-3-B01A-CP1	.01	0.5 g						0.564
K1510735-001: KQ1511382-10	Matrix Spike	.01	0.5 g				0.25 mL	84625	0.560
K1510735-001: KQ1511382-11	Duplicate Matrix Spike	.01	0.5 g				0.25 mL	84625	0.562
K1510735-002	EDWRD-3-B02A-CP1	.01	0.5 g						0.533

12:55

K1510735-003	EDWRD-3-B03A-CP1	.01	0.5 g						0.528
K1510735-004	EDWRD-3-B03A-CP2	.01	0.5 g						0.526
K1510735-005	EDWRD-3-B04A-CP1	.01	0.5 g						0.535
K1510735-006	EDWRD-3-B05A-CP1	.02	0.5 g						0.539

29 Total Samples consisting of 20 Client Samples, 6 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Hg Source Standard 1000 ug/L	Spike	84625	11/1/2015	K-MET SOIL CRM	Spike	69665	7/31/2016

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET SnCl Hg	75968	Digestion	K-MET 100ml Centrifuge Tube	81681
Digestion	K-MET KMnO4 Hg	77588	Digestion	K-MET NACl Hg	82795
Digestion	K-MET NH2OH-HCl Hg	78685	Digestion	K-MET HCl Hg	84165
Digestion	Teflon Chips	80163	Digestion	K-MET HNO3 Hg	84166

Preparation Hardware / Equipment

Step	Name	Property	Value	Step	Name	Property	Value
Digestion	K-Balance-37	Date Checked		Digestion	K-BlockDigester-03	Observed Temperature	deg C
Digestion	K-BlockDigester-03	Correction Factor	deg C	Digestion	K-BlockDigester-03	Thermometer ID 1109898	NONE
Digestion	K-BlockDigester-03	Corrected Temperature	deg C	Digestion	K-BlockDigester-03	Thermometer Location	21 NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion						

Comments

10/9

Service Request # K1510507
Calibration 100515BMS05
QC in calibration 100515BMS05
QC Service Request # K1510571
STARLIMS run # 465437

CAL STD	MS19-24-E	ICSA STD	MS19-23-I
ICV STD	MS19-20-D	ICSAB STD	MS19-23-J
LLICV STD	MS19-20-J		

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV within 10 % of true value	X		
3. CCV's in control	X		
4. CCB's and/or ICB's below MRL	X		
5. Method blank below MRL	X		
6. LCS in control	X		
7. Spike and duplicate in control	X		
8. All analytes within instrument linear range	X		
9. Adequate rinse out time allowed	X		
10. Internal standards in control	X		
11. Interferences checked	X		
12. Se over MRL	X		
13. LLICV run	X		
14. Cd Correction Applied		X	
15. ICSA and ICSAB in control	X		
16. Serial dilution run	X		
17. Post spike in control	X		
18. Was run stop prematurely, If so why?		X	

Comments: ~~Recal for Ni~~ not requested

Mn MRL 2.0ppb

Primary Review By: [signature] Date: 10/6/15
Secondary Review By: [signature] Date: 10/6/15

R:\icp\misc\data review forms\icpms review form

Data Review Form

Service Request #:	**K1510507**
Instrument ID#:	**K-ICP-MS-05**
DataFile Name:	**R:\ICP\WIP\DATA\K-ICP-MS-05 (Agilent)\100515B.csv**
RUNNO:	**465437**

There are no issues to report.

Primary Approver: 10/6/15

Secondary Approver: 10/6/15

US EPA Tune Check Sample Report

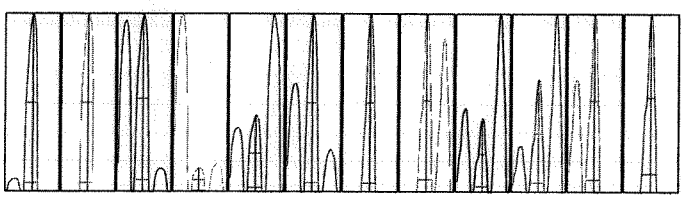
Batch Folder D:\Data\Experiments\100515A.b
Report Comment ALS Tune
Instrument Name G3281A JP13482848

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	53247	0.74	5.00	
9	20068	0.96	5.00	
24	107360	0.49	5.00	
25	14599	0.50	5.00	
26	17083	0.41	5.00	
59	186536	0.49	5.00	
115	267428	0.54	5.00	
206	73573	0.88	5.00	
207	65705	1.06	5.00	
208	158052	0.85	5.00	
209	241647	0.82	5.00	
238	333779	1.03	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
7	53738	53590	52835	53030	53041
9	20380	19968	20127	19960	19906
24	107811	106953	107568	107810	106658
25	14536	14593	14715	14610	14539
26	17143	17148	17008	17109	17006
59	187868	186664	185906	185489	186752
115	268363	269120	267543	265415	266698
206	74669	73416	73492	73323	72965
207	66692	65912	65822	65217	64882
208	159526	159464	157494	156884	156895
209	244449	242920	239652	240881	240333
238	336570	338051	333118	330340	330816

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
7	8829	7.05	6.9 - 7.1		0.784	0.900	
9	3378	9.00	8.9 - 9.1		0.740	0.900	
24	17821	23.95	23.9 - 24.1		0.807	0.900	
25	2369	24.95	24.9 - 25.1		0.782	0.900	
26	2827	25.95	25.9 - 26.1		0.785	0.900	
59	33375	58.95	58.9 - 59.1		0.778	0.900	
115	53420	115.00	114.9 - 115.1		0.772	0.900	
206	15019	206.00	205.9 - 206.1		0.779	0.900	
207	13030	207.00	206.9 - 207.1		0.781	0.900	
208	31633	208.00	207.9 - 208.1		0.786	0.900	
209	50014	209.00	208.9 - 209.1		0.784	0.900	
238	65754	238.00	237.9 - 238.1		0.805	0.900	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 279 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.57	L/min			
RF Matching	1.76	V	Option Gas	0.0	%			
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	°C						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.4	V			
Extract 2	-185.0	V	Cell Entrance	-30	V			
Omega Bias	-115	V	Cell Exit	-50	V			
Deflect	12.2	V						

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%			
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			
Energy Discrimination	5.0	V						

	Sample						
		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
1			001CALB.	10/5/2015 5:21:48 PM	CalBlk	Blank	
2			002CALS.	10/5/2015 5:25:36 PM	CalStd	25ppb	
3			003_ICV.d	10/5/2015 5:29:23 PM	ICV	ICV	
4			004_ICV.d	10/5/2015 5:33:12 PM	ICV	ICV	
5			005_CCV.	10/5/2015 5:37:00 PM	CCV	CCV	
6			006_ICB.d	10/5/2015 5:40:48 PM	ICB	ICB	
7			007_CCB.	10/5/2015 5:44:39 PM	CCB	CCB	
8			008LICV.d	10/5/2015 5:48:28 PM	LLICV	LLICVS	
9			~~009_QC3.d~~	~~10/5/2015 5:52:16 PM~~	~~Sample~~	~~LLICVS 1.0ppb~~	
10			~~010SMPL.~~	~~10/5/2015 5:56:06 PM~~	~~QC3~~	~~LLICVS 2.0ppb~~	not needed
11			011ICSA.d	10/5/2015 5:59:55 PM	ICSA	ICSA	
12			012ICSB.d	10/5/2015 6:03:42 PM	ICSB	ICSAB	
13			013_PB.d	10/5/2015 6:07:30 PM	PB	KQ1510753-03	5
14			014_QCS.	10/5/2015 6:11:18 PM	QCS	KQ1510753-04	20
15			~~015SMPL.~~	~~10/5/2015 6:15:31 PM~~	~~Sample~~	~~K1510282-001~~	~~100~~ see 1/5
16			016SMPL.	10/5/2015 6:19:19 PM	Sample	K1510507-001	100
17			~~017SMPL.~~	~~10/5/2015 6:23:08 PM~~	~~Sample~~	~~K1510571-001~~	~~100~~
18			018_ARF.d	10/5/2015 6:26:56 PM	AllRef	K1510571-002	100
19			019SMPL.	10/5/2015 6:30:44 PM	Sample	K1510571-002D	100
20			020SMPL.	10/5/2015 6:34:33 PM	Sample	K1510571-002L	500
21			021SMPL.	10/5/2015 6:38:20 PM	Sample	K1510571-002A	100 +100
22			~~022SMPL.~~	~~10/5/2015 6:42:06 PM~~	~~Sample~~	~~K1510571-002S~~	~~100~~
23			023_CCV.	10/5/2015 6:45:54 PM	CCV	CCV	
24			024_CCB.	10/5/2015 6:49:43 PM	CCB	CCB	
25			~~025SMPL.~~	~~10/5/2015 6:53:31 PM~~	~~Sample~~	~~K1510571-003~~	~~100~~
26			026SMPL.	10/5/2015 6:57:19 PM	Sample	K1510571-004	100
27			027SMPL.	10/5/2015 7:01:07 PM	Sample	K1510571-005	100
28			028SMPL.	10/5/2015 7:04:56 PM	Sample	K1510571-006	100
29			029SMPL.	10/5/2015 7:08:44 PM	Sample	K1510571-007	100
30			030SMPL.	10/5/2015 7:12:33 PM	Sample	K1510571-008	100
31			~~031SMPL.~~	~~10/5/2015 7:16:22 PM~~	~~Sample~~	~~K1510571-009~~	~~100~~
32			032_CCV.	10/5/2015 7:20:11 PM	CCV	CCV	
33			033_CCB.	10/5/2015 7:23:59 PM	CCB	CCB	
34			034LCCV.	10/5/2015 7:27:47 PM	LLCCV	LLCCVS	
35			~~035LCCV.~~	~~10/5/2015 7:31:34 PM~~	~~LLCCV~~	~~LLCCVS~~	
36			036LCCV.	10/5/2015 7:35:23 PM	LLCCV	LLCCVS	not needed
37			037_QC3.d	10/5/2015 7:39:11 PM	QC3	LLCCVS 2.0ppb	
38			038SMPL.	10/5/2015 7:42:59 PM	Sample	K1510282-001	5
39			039SMPL.	10/5/2015 7:46:47 PM	Sample	K1510507-001	5
40			040SMPL.	10/5/2015 7:50:32 PM	Sample	K1510571-001	5

Sea 1/5

Sea 1/5

Sea 1/5

	Sample						
		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
41			041_ARF.d	10/5/2015 7:54:19 PM	AllRef	K1510571-002	5
42			042SMPL.	10/5/2015 7:58:06 PM	Sample	K1510571-002D	5
43			043SMPL.	10/5/2015 8:01:56 PM	Sample	K1510571-002L	25
44			044_PDS.d	10/5/2015 8:05:44 PM	PDS	K1510571-002A	5 +50ppb
45			045_Spk.d	10/5/2015 8:09:33 PM	Spike	K1510571-002S	5
46			046SMPL.	10/5/2015 8:13:20 PM	Sample	K1510571-003	5
47			047SMPL.	10/5/2015 8:17:07 PM	Sample	K1510571-004	5
48			048_CCV.	10/5/2015 8:20:54 PM	CCV	CCV	
49			049_CCB.	10/5/2015 8:24:44 PM	CCB	CCB	
50			050SMPL.	10/5/2015 8:28:31 PM	Sample	K1510571-005	5
51			051SMPL.	10/5/2015 8:32:20 PM	Sample	K1510571-006	5
52			052SMPL.	10/5/2015 8:36:09 PM	Sample	K1510571-007	5
53			053SMPL.	10/5/2015 8:39:55 PM	Sample	K1510571-008	5
54			054SMPL.	10/5/2015 8:43:42 PM	Sample	K1510571-009	5
55			055_CCV.	10/5/2015 8:47:30 PM	CCV	CCV	
56			056_CCB.	10/5/2015 8:51:19 PM	CCB	CCB	
57			~~057_CCB.~~	~~10/5/2015 8:55:09 PM~~	~~CCB~~	~~CCB~~	
58			~~058_CCB.~~	~~10/5/2015 8:58:57 PM~~	~~CCB~~	~~CCB~~	
59			059LCCV.	10/5/2015 9:02:46 PM	LLCCV	LLCCVS	
60			060_QC3.d	10/5/2015 9:06:34 PM	QC3	LLCCVS 2.0ppb	
61			~~061_QC3.d~~	~~10/5/2015 9:10:21 PM~~	~~QC3~~	~~LLCCVS 2.0ppb~~	
62			~~062_QC3.d~~	~~10/5/2015 9:14:11 PM~~	~~QC3~~	~~LLCCVS 2.0ppb~~	

not needed

Analyte				
Name		Mass	ISTD	Tune Mode
1	Be	9	45	No Gas
2	B	10	45	No Gas
3	B	11	45	No Gas
4	V	51	72	He
5	Cr	52	72	He
6	Cr	53	72	He
7	Mn	55	72	He
8	Co	59	72	He
9	Ni	60	72	He
10	Ni	62	72	He
11	Cu	63	72	He
12	Cu	65	72	He
13	Zn	66	72	He
14	As	75	72	He
15	Se	77	72	H2
16	Se	78	72	H2

Analyte				
	Name	Mass	ISTD	Tune Mode
17	Mo	95	115	He
18	Mo	97	115	He
19	Mo	98	115	He
20	Ag	107	115	He
21	Ag	109	115	He
22	Cd	111	115	He
23	Cd	114	115	He
24	Sb	121	115	He
25	Sb	123	115	He
26	Ba	135	115	He
27	Ba	137	115	He
28	Tl	203	175	He
29	Tl	205	175	He
30	[Pb]	206	175	He
31	[Pb]	207	175	He
32	Pb	208	175	He
33	U	238	232	He
34	Li	6		No Gas
35	Sc	45		No Gas
36	Sc	45		He
37	Sc	45		H2
38	Ga	71		H2
39	Ge	72		He
40	Ge	72		H2
41	Y	89		He
42	Rh	103		He
43	In	115		He
44	Lu	175		He
45	Th	232		He

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	001CALB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:21:48-07:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

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QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	5	955.87
B	10	No Gas	248	0.83
B	11	No Gas	1220	0.37
V	51	He	40	90.83
Cr	52	He	753	1.25
Cr	53	He	114	12.03
Mn	55	He	30	293.97
Co	59	He	41	172.31
Ni	60	He	3828	0.12
Ni	62	He	569	1.58
Cu	63	He	58	67.96
Cu	65	He	44	38.96
Zn	66	He	97	6.18
As	75	He	3	3538.98
Se	77	H2	755	0.12
Se	78	H2	6	783.72
Mo	95	He	12	340.74
Mo	97	He	12	1031.15
Mo	98	He	11	948.26
Ag	107	He	17	207.93
Ag	109	He	26	179.28
Cd	111	He	3	1600.00
Cd	114	He	8	149.88
Sb	121	He	17	227.09
Sb	123	He	15	148.00
Ba	135	He	4	2579.17
Ba	137	He	12	122.33
Tl	203	He	28	65.98
Tl	205	He	49	16.09
[Pb]	206	He	59	43.35
[Pb]	207	He	57	64.83
Pb	208	He	220	1.82
U	238	He	11	412.30

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD
Sc	45	No Gas	5024664	0.74
Ge	72	He	69469	1.75
Ge	72	H2	990900	0.86
In	115	He	553695	0.19
Lu	175	He	1872725	1.49
Th	232	He	4140443	0.27

Calibration Standard Report

Sample Table

Sample Name	25ppb
Data File Name	002CALS.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:25:36-07:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	70159	0.00
B	10	No Gas	12074	0.03
B	11	No Gas	59083	0.00
V	51	He	43562	0.00
Cr	52	He	63539	0.00
Cr	53	He	8124	0.02
Mn	55	He	22281	0.02
Co	59	He	123118	0.00
Ni	60	He	39856	0.00
Ni	62	He	6333	0.07
Cu	63	He	105821	0.00
Cu	65	He	53696	0.00
Zn	66	He	12320	0.00
As	75	He	5847	0.01
Se	77	H2	5409	0.03
Se	78	H2	14667	0.01
Mo	95	He	45876	0.00
Mo	97	He	30703	0.01
Mo	98	He	79922	0.00
Ag	107	He	182767	0.00
Ag	109	He	183122	0.00
Cd	111	He	18691	0.00
Cd	114	He	48535	0.00
Sb	121	He	39822	0.00
Sb	123	He	32501	0.00
Ba	135	He	5782	0.10
Ba	137	He	10596	0.02
Tl	203	He	171636	0.00
Tl	205	He	417336	0.00
[Pb]	206	He	132896	0.00
[Pb]	207	He	118125	0.00
Pb	208	He	538874	0.00
U	238	He	634996	0.00

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4967511	1.60	5024664	98.86	70	125	
Ge	72	He	69613	1.30	69469	100.21	70	125	
Ge	72	H2	970839	0.58	990900	97.98	70	125	
In	115	He	551720	0.48	553695	99.64	70	125	
Lu	175	He	1840499	2.28	1872725	98.28	70	125	
Th	232	He	4180587	1.46	4140443	100.97	70	125	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	003_ICV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:29:23-07:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.717	1.455	7330	0.09	2.5	109	
B	10	No Gas	28.490	3.659	13190	3.52	25	114	ICV Failed
B	11	No Gas	27.779	2.077	62948	0.92	25	111	ICV Failed
V	51	He	26.102	1.162	44521	0.79	25	104	
Cr	52	He	10.306	2.826	26073	2.28	10	103	
Cr	53	He	10.057	2.496	3266	1.65	10	101	
Mn	55	He	26.001	3.877	22685	4.18	25	104	
Co	59	He	25.849	2.678	124576	1.41	25	103	
Ni	60	He	25.890	1.246	40265	1.18	25	104	
Ni	62	He	26.332	2.906	6502	3.40	25	105	
Cu	63	He	13.076	2.285	54193	1.24	12.5	105	
Cu	65	He	12.825	3.221	26976	1.95	12.5	103	
Zn	66	He	25.907	1.498	12492	1.07	25	104	
As	75	He	26.153	1.947	5986	0.99	25	105	
Se	77	H2	25.972	2.492	5585	1.74	25	104	
Se	78	H2	25.781	1.562	15112	1.21	25	103	
Mo	95	He	25.425	1.852	46381	1.75	25	102	
Mo	97	He	25.488	0.562	31121	0.94	25	102	
Mo	98	He	25.949	0.531	82471	0.41	25	104	
Ag	107	He	12.893	1.495	93713	0.76	12.5	103	
Ag	109	He	12.917	0.876	94073	0.98	12.5	103	
Cd	111	He	13.079	0.836	9723	1.20	12.5	105	
Cd	114	He	13.193	0.593	25467	0.61	12.5	106	
Sb	121	He	25.956	1.405	41103	1.56	25	104	
Sb	123	He	25.754	1.623	33285	1.14	25	103	
Ba	135	He	103.211	1.214	23714	0.94	100	103	
Ba	137	He	103.852	1.138	43718	0.41	100	104	
Tl	203	He	25.693	2.403	174306	0.60	25	103	
Tl	205	He	26.049	1.876	429710	0.16	25	104	
[Pb]	206	He	25.412	2.224	133467	0.50	25	102	
[Pb]	207	He	26.475	1.870	123595	0.10	25	106	
Pb	208	He	25.934	2.120	552318	0.75	25	104	
U	238	He	24.257	1.086	658005	0.72	25	97	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4772500	1.53	5024664	94.98	70	125	
Ge	72	He	68133	1.29	69469	98.08	70	125	
Ge	72	H2	970036	0.60	990900	97.89	70	125	
In	115	He	548509	0.74	553695	99.06	70	125	
Lu	175	He	1818391	1.81	1872725	97.10	70	125	
Th	232	He	4463950	0.36	4140443	107.81	70	125	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	004_ICV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:33:12-07:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.677	0.621	7191	1.38	2.5	107	
B	10	No Gas	27.647	3.717	12747	2.99	25	111	ICV Failed
B	11	No Gas	27.462	1.997	61965	2.00	25	110	
V	51	He	25.848	0.446	44008	0.76	25	103	
Cr	52	He	10.316	2.518	26054	3.08	10	103	
Cr	53	He	9.767	8.186	3170	8.39	10	98	
Mn	55	He	26.681	0.782	23233	0.26	25	107	
Co	59	He	25.944	0.691	124828	1.38	25	104	
Ni	60	He	26.050	2.069	40412	1.21	25	104	
Ni	62	He	25.716	2.961	6350	2.21	25	103	
Cu	63	He	12.823	2.109	53052	1.71	12.5	103	
Cu	65	He	12.901	0.062	27093	0.88	12.5	103	
Zn	66	He	25.277	1.678	12169	1.80	25	101	
As	75	He	26.191	3.864	5983	3.11	25	105	
Se	77	H2	26.755	1.735	5657	1.76	25	107	
Se	78	H2	25.866	2.116	14964	2.41	25	103	
Mo	95	He	25.583	0.824	46225	1.24	25	102	
Mo	97	He	25.498	1.186	30836	1.54	25	102	
Mo	98	He	26.244	0.850	82614	0.91	25	105	
Ag	107	He	12.952	1.197	93248	1.41	12.5	104	
Ag	109	He	13.028	0.961	93975	0.63	12.5	104	
Cd	111	He	13.039	1.035	9600	0.87	12.5	104	
Cd	114	He	13.201	0.667	25239	0.69	12.5	106	
Sb	121	He	25.958	0.179	40712	0.57	25	104	
Sb	123	He	25.846	0.910	33085	0.50	25	103	
Ba	135	He	101.591	1.646	23120	1.94	100	102	
Ba	137	He	104.900	0.563	43739	0.68	100	105	
Tl	203	He	25.621	0.526	172277	0.44	25	102	
Tl	205	He	26.110	0.448	426874	0.52	25	104	
[Pb]	206	He	25.736	1.154	133967	1.13	25	103	
[Pb]	207	He	26.037	0.671	120464	0.65	25	104	
Pb	208	He	25.937	0.609	547456	0.58	25	104	
U	238	He	25.151	1.658	654069	0.44	25	101	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4750432	0.94	5024664	94.54	70	125	
Ge	72	He	68005	0.83	69469	97.89	70	125	
Ge	72	H2	957357	0.31	990900	96.61	70	125	
In	115	He	543254	0.42	553695	98.11	70	125	
Lu	175	He	1801748	0.09	1872725	96.21	70	125	
Th	232	He	4279991	1.34	4140443	103.37	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	005_CCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:37:00-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.389	0.933	68964	0.25	25	102	
B	10	No Gas	26.334	1.234	12300	1.13	25	105	
B	11	No Gas	26.079	0.327	59607	0.86	25	104	
V	51	He	25.457	2.728	42504	1.64	25	102	
Cr	52	He	24.986	0.672	60856	0.76	25	100	
Cr	53	He	24.616	3.048	7670	4.12	25	98	
Mn	55	He	25.927	3.403	22144	3.42	25	104	
Co	59	He	25.322	0.217	119501	1.20	25	101	
Ni	60	He	25.586	2.345	39000	2.25	25	102	
Ni	62	He	25.201	4.221	6116	4.16	25	101	
Cu	63	He	25.415	1.280	103072	0.37	25	102	
Cu	65	He	25.239	1.205	51940	0.37	25	101	
Zn	66	He	25.314	1.050	11953	1.57	25	101	
As	75	He	25.501	1.775	5715	1.48	25	102	
Se	77	H2	24.576	1.048	5256	1.50	25	98	
Se	78	H2	25.017	1.155	14473	1.23	25	100	
Mo	95	He	24.629	1.254	44363	0.72	25	99	
Mo	97	He	24.742	2.674	29830	2.72	25	99	
Mo	98	He	25.006	1.696	78473	1.17	25	100	
Ag	107	He	24.935	1.328	178940	0.68	25	100	
Ag	109	He	25.049	0.656	180113	0.54	25	100	
Cd	111	He	24.879	1.178	18259	0.41	25	100	
Cd	114	He	24.883	1.150	47422	0.89	25	100	
Sb	121	He	25.095	1.058	39239	0.29	25	100	
Sb	123	He	25.188	0.588	32146	1.03	25	101	
Ba	135	He	24.106	1.647	5472	0.91	25	96	
Ba	137	He	25.120	1.809	10451	1.49	25	100	
Tl	203	He	24.700	1.884	167173	0.65	25	99	
Tl	205	He	25.143	1.336	413783	0.22	25	101	
[Pb]	206	He	25.061	1.178	131325	0.66	25	100	
[Pb]	207	He	24.920	1.528	116060	0.37	25	100	
Pb	208	He	25.043	1.204	532098	0.23	25	100	
U	238	He	25.449	0.927	629430	0.59	25	102	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4807251	0.69	5024664	95.67	70	125	
Ge	72	He	66701	1.10	69469	96.01	70	125	
Ge	72	H2	957398	0.83	990900	96.62	70	125	
In	115	He	541610	0.78	553695	97.82	70	125	
Lu	175	He	1813876	1.26	1872725	96.86	70	125	
Th	232	He	4070330	1.34	4140443	98.31	70	125	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	006_ICB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:40:48-07:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.003	78.5	13	52.7	0.04	
B	10	No Gas	0.834	42.9	620	27.1	10	
B	11	No Gas	0.796	8.9	2951	4.2	10	
V	51	He	0.006	271.4	49	56.8	0.4	
Cr	52	He	-0.014	-267.7	694	12.8	0.4	
Cr	53	He	0.026	290.1	119	19.9	0.4	
Mn	55	He	0.029	64.2	53	28.6	0.1	
Co	59	He	0.004	63.7	59	21.4	0.04	
Ni	60	He	0.244	13.8	4044	1.2	0.4	
Ni	62	He	0.350	153.8	628	18.8	0.4	
Cu	63	He	0.007	127.2	83	41.6	0.2	
Cu	65	He	0.003	344.0	49	41.7	0.2	
Zn	66	He	-0.017	-316.7	86	30.3	1	
As	75	He	0.009	225.2	5	101.3	0.4	
Se	77	H2	0.045	278.9	730	2.8	20	
Se	78	H2	0.003	331.6	7	74.2	1	
Mo	95	He	0.001	206.3	14	35.3	0.1	
Mo	97	He	0.003	194.8	16	44.6	0.1	
Mo	98	He	0.004	96.2	23	51.5	0.1	
Ag	107	He	0.003	66.4	37	36.4	0.04	
Ag	109	He	0.000	548.4	27	33.1	0.04	
Cd	111	He	0.007	41.2	7	27.6	0.04	
Cd	114	He	0.005	57.4	18	31.4	0.04	
Sb	121	He	0.025	29.6	57	20.6	0.2	
Sb	123	He	0.009	41.7	27	18.7	0.1	
Ba	135	He	0.005	785.0	6	173.2	0.1	
Ba	137	He	0.005	175.2	13	25.0	0.1	
Tl	203	He	0.016	19.4	139	13.6	0.04	
Tl	205	He	0.021	16.2	398	15.5	0.04	
[Pb]	206	He	0.001	354.7	64	34.4	0.1	
[Pb]	207	He	-0.002	-44.4	44	11.5	0.1	
Pb	208	He	0.002	47.7	254	7.7	0.1	
U	238	He	0.005	27.0	132	26.2	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4808764	1.14	5024664	95.70	70	125	
Ge	72	He	67178	1.01	69469	96.70	70	125	
Ge	72	H2	947648	0.45	990900	95.64	70	125	
In	115	He	542829	0.57	553695	98.04	70	125	
Lu	175	He	1851743	1.98	1872725	98.88	70	125	
Th	232	He	4026704	1.69	4140443	97.25	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	007_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:44:39-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.002	59.2	10	34.0	0.04	
B	10	No Gas	0.479	14.4	457	6.5	10	
B	11	No Gas	0.448	4.4	2173	1.6	10	
V	51	He	0.008	214.7	51	53.1	0.4	
Cr	52	He	0.006	552.6	740	11.3	0.4	
Cr	53	He	-0.070	-94.0	89	22.9	0.4	
Mn	55	He	0.009	287.2	37	63.0	0.1	
Co	59	He	0.001	181.8	43	15.4	0.04	
Ni	60	He	0.340	23.2	4154	2.7	0.4	
Ni	62	He	0.264	95.5	606	9.6	0.4	
Cu	63	He	0.002	331.1	62	34.4	0.2	
Cu	65	He	-0.001	-123.2	41	4.7	0.2	
Zn	66	He	-0.035	-188.5	77	39.8	1	
As	75	He	-0.002	-313.6	2	86.6	0.4	
Se	77	H2	-0.036	-731.6	712	7.6	20	
Se	78	H2	0.006	69.9	9	26.6	1	
Mo	95	He	-0.005	-40.0	2	173.2	0.1	
Mo	97	He	-0.006	-68.5	4	114.6	0.1	
Mo	98	He	0.002	113.6	17	40.0	0.1	
Ag	107	He	0.001	88.3	26	32.8	0.04	
Ag	109	He	0.001	156.9	32	36.3	0.04	
Cd	111	He	0.005	37.5	6	21.6	0.04	
Cd	114	He	0.002	48.4	12	16.4	0.04	
Sb	121	He	0.014	11.9	39	6.5	0.2	
Sb	123	He	0.010	47.9	28	22.7	0.1	
Ba	135	He	0.001	2849.2	4	86.6	0.1	
Ba	137	He	-0.013	-48.9	6	41.7	0.1	
Tl	203	He	0.010	36.8	92	24.6	0.04	
Tl	205	He	0.012	35.9	240	28.1	0.04	
[Pb]	206	He	-0.001	-209.5	53	12.5	0.1	
[Pb]	207	He	-0.003	-18.9	39	9.9	0.1	
Pb	208	He	-0.001	-43.1	186	4.5	0.1	
U	238	He	0.002	9.6	69	7.4	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4811482	0.68	5024664	95.76	70	125	
Ge	72	He	66791	0.41	69469	96.14	70	125	
Ge	72	H2	942953	0.94	990900	95.16	70	125	
In	115	He	536670	0.40	553695	96.93	70	125	
Lu	175	He	1811011	2.23	1872725	96.70	70	125	
Th	232	He	4083364	0.78	4140443	98.62	70	125	

Low Level Initial Calibration Verification (LLICV) Report

Sample Table

Sample Name	LLICVS
Data File Name	008LICV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:48:28-07:00
Sample Type	LLICV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.040	9.611	113	8.00	0.04	99	
B	10	No Gas	1.395	7.562	882	5.45	1	140	
B	11	No Gas	1.286	5.500	4076	2.72	1	129	
V	51	He	0.385	15.731	673	14.20	0.4	96	
Cr	52	He	0.430	10.747	1741	6.77	0.4	107	
Cr	53	He	0.483	21.005	256	11.09	0.4	121	
Mn	55	He	0.100	67.152	113	50.94	0.1	100	
Co	59	He	0.036	12.165	208	8.84	0.04	90	
~~Ni~~	~~60~~	~~He~~	~~0.706~~	~~31.490~~	~~4606~~	~~5.78~~	~~0.4~~	~~177~~	~~LLICV Failed~~
Ni	62	He	0.796	56.402	716	14.44	0.4	199	~~LLICV Failed~~ see 2005
Cu	63	He	0.227	11.442	966	11.50	0.2	113	
Cu	65	He	0.213	16.850	476	16.32	0.2	106	
Zn	66	He	1.020	10.661	566	9.76	1	102	
As	75	He	0.970	7.373	218	6.24	1	97	
Se	77	H2	1.785	11.837	1048	2.91	2	89	
Se	78	H2	1.988	1.981	1144	2.54	2	99	
Mo	95	He	0.101	27.177	192	25.39	0.1	101	
Mo	97	He	0.082	22.327	110	19.87	0.1	82	
Mo	98	He	0.108	14.063	347	13.63	0.1	108	
Ag	107	He	0.044	3.378	332	3.07	0.04	111	
Ag	109	He	0.035	23.156	271	21.16	0.04	86	
Cd	111	He	0.044	6.627	35	6.32	0.04	110	
Cd	114	He	0.041	6.272	86	5.55	0.04	103	
Sb	121	He	0.114	24.946	193	22.95	0.1	114	
Sb	123	He	0.106	7.637	148	6.83	0.1	106	
Ba	135	He	0.114	34.422	30	29.40	0.1	114	
Ba	137	He	0.067	17.516	39	12.38	0.1	67	LLICV Failed not reprocessed on 10/5/15
Tl	203	He	0.049	14.335	357	13.77	0.04	122	
Tl	205	He	0.050	3.843	871	2.11	0.04	125	
[Pb]	206	He	0.109	4.311	627	4.73	0.1	109	
[Pb]	207	He	0.086	9.661	454	6.32	0.1	86	
Pb	208	He	0.103	2.693	2386	1.82	0.1	103	
U	238	He	0.038	4.635	944	4.47	0.04	95	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4840293	1.24	5024664	96.33	70	125	
Ge	72	He	66051	1.09	69469	95.08	70	125	
Ge	72	H2	948295	0.94	990900	95.70	70	125	
In	115	He	537305	0.18	553695	97.04	70	125	
Lu	175	He	1810481	2.31	1872725	96.68	70	125	
Th	232	He	4057694	0.22	4140443	98.00	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICVS 1.0ppb
Data File Name	009_QC3.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:52:16-07:00
Sample Type	QC3
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	1.039	2.804	2785	2.96	1	104	
B	10	No Gas	1.262	23.135	803	16.75	1	126	
B	11	No Gas	1.297	3.863	4014	2.83	1	130	
V	51	He	1.031	2.897	1739	3.10	1	103	
Cr	52	He	1.077	3.916	3279	2.36	1	108	
Cr	53	He	0.889	11.140	379	8.17	1	89	
Mn	55	He	1.044	18.567	910	19.07	1	104	
Co	59	He	1.046	2.282	4920	2.22	1	105	
Ni	60	He	1.437	13.124	5600	5.20	1	144	QC3 Main CR1 Failed
Ni	62	He	1.194	43.307	801	13.95	-1	-119	
Cu	63	He	1.026	1.792	4169	2.73	1	103	
Cu	65	He	1.035	4.006	2146	3.17	1	103	
Zn	66	He	1.155	10.337	627	7.87	1	116	
As	75	He	1.099	4.863	246	3.88	1	110	
Se	77	H2	0.758	16.335	862	3.38	-1	-76	
Se	78	H2	1.043	4.546	604	5.27	1	104	
Mo	95	He	1.023	14.180	1830	14.37	1	102	
Mo	97	He	1.028	6.484	1235	5.73	1	103	
Mo	98	He	1.019	2.703	3165	1.89	1	102	
Ag	107	He	1.052	2.584	7464	1.97	1	105	
Ag	109	He	1.025	2.029	7297	1.47	1	103	
Cd	111	He	1.001	2.517	727	2.96	1	100	
Cd	114	He	1.028	2.911	1942	3.05	1	103	
Sb	121	He	1.026	5.906	1599	6.03	1	103	
Sb	123	He	1.062	2.373	1351	2.31	1	106	
Ba	135	He	1.082	12.712	247	13.31	1	108	
Ba	137	He	1.015	11.489	427	10.36	1	101	
Tl	203	He	0.999	3.529	6855	3.87	1	100	
Tl	205	He	1.006	1.259	16756	0.67	1	101	
[Pb]	206	He	1.004	3.165	5369	3.63	1	100	
[Pb]	207	He	1.025	3.790	4872	3.02	1	102	
Pb	208	He	1.002	0.747	21704	0.72	1	100	
U	238	He	1.027	1.990	25080	1.55	1	103	

not ruled See 2ppb M 10/5/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4736527	0.42	5024664	94.27	70	125	
Ge	72	He	65963	1.00	69469	94.95	70	125	
Ge	72	H2	948935	0.80	990900	95.76	70	125	
In	115	He	534450	0.90	553695	96.52	70	125	
Lu	175	He	1831340	0.73	1872725	97.79	70	125	
Th	232	He	4018828	1.24	4140443	97.06	70	125	

Sample Report

Sample Table

Sample Name	LLICVS 2.0ppb
Data File Name	010SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:56:06-07:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.032	1.50	5489	0.04	
B	10	No Gas	2.218	5.58	1246	0.18	
B	11	No Gas	2.179	7.68	6011	0.04	
V	51	He	2.038	4.92	3476	0.06	
Cr	52	He	2.008	4.11	5614	0.04	
Cr	53	He	1.937	3.48	712	0.27	
Mn	55	He	2.016	11.39	1767	0.11	
Co	59	He	2.022	2.13	9681	0.02	
Ni	60	He	2.465	9.41	7156	0.03	
Ni	62	He	2.685	21.12	1151	0.23	
Cu	63	He	2.030	0.72	8372	0.02	
Cu	65	He	2.042	1.39	4286	0.05	
Zn	66	He	1.851	10.59	970	0.19	
As	75	He	1.940	9.06	442	0.44	
Se	77	H2	1.936	3.05	1067	0.18	
Se	78	H2	2.022	0.77	1154	0.18	
Mo	95	He	2.079	1.45	3699	0.06	
Mo	97	He	1.963	4.69	2341	0.08	
Mo	98	He	2.039	2.35	6313	0.03	
Ag	107	He	2.050	1.20	14508	0.01	
Ag	109	He	2.004	1.43	14213	0.01	
Cd	111	He	1.974	1.09	1429	0.14	
Cd	114	He	2.022	1.86	3803	0.05	
Sb	121	He	2.086	5.27	3228	0.06	
Sb	123	He	2.137	2.66	2700	0.08	
Ba	135	He	1.810	13.98	409	0.44	
Ba	137	He	1.941	6.23	806	0.24	
Tl	203	He	1.970	5.20	13253	0.01	
Tl	205	He	2.001	2.05	32739	0.01	
[Pb]	206	He	2.015	2.54	10536	0.02	
[Pb]	207	He	2.011	0.89	9350	0.02	
Pb	208	He	2.029	1.55	42997	0.00	
U	238	He	2.017	1.51	49859	0.00	

123%

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4776526	1.67	5024664	95.06	70	125	
Ge	72	He	67406	0.58	69469	97.03	70	125	
Ge	72	H2	940530	1.23	990900	94.92	70	125	
In	115	He	533449	0.59	553695	96.34	70	125	
Lu	175	He	1801232	2.42	1872725	96.18	70	125	
Th	232	He	4067332	1.25	4140443	98.23	70	125	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	011ICSA.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T17:59:55-07:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	QC Flag
Be	9	No Gas	0.013	19.7	38	16.0	
B	10	No Gas	0.594	19.6	496	10.8	
B	11	No Gas	0.550	5.2	2337	3.2	
V	51	He	0.033	35.7	92	19.9	
Cr	52	He	0.180	30.6	1144	11.7	
Cr	53	He	0.080	67.4	133	13.0	
Mn	55	He	1.534	9.7	1323	10.8	
Co	59	He	0.246	9.3	1187	10.0	
Ni	60	He	0.805	11.9	4735	2.0	
Ni	62	He	0.482	12.1	646	3.3	
Cu	63	He	0.307	8.0	1283	6.7	
Cu	65	He	0.317	5.2	687	5.5	
Zn	66	He	0.289	21.4	226	11.5	
As	75	He	0.067	14.0	17	13.3	
Se	77	H2	0.595	16.6	828	2.3	
Se	78	H2	0.039	33.1	28	26.1	
Mo	95	He	51.546	1.0	87383	0.7	
Mo	97	He	51.914	2.1	58894	1.1	
Mo	98	He	52.060	0.9	153771	0.8	
Ag	107	He	0.027	23.7	198	22.6	
Ag	109	He	0.029	17.2	218	16.4	
Cd	111	He	0.108	10.1	77	9.1	
Cd	114	He	0.102	8.6	191	7.8	
Sb	121	He	0.258	14.5	395	13.3	
Sb	123	He	0.269	11.8	337	9.9	
Ba	135	He	0.158	57.4	38	50.9	
Ba	137	He	0.142	24.7	66	20.5	
Tl	203	He	0.003	118.1	44	47.6	
Tl	205	He	0.007	22.0	153	17.3	
[Pb]	206	He	0.090	18.6	514	15.4	
[Pb]	207	He	0.080	15.1	419	11.9	
Pb	208	He	0.086	8.8	1988	6.3	
U	238	He	0.002	28.8	54	23.2	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4679477	1.37	5024664	93.13	70	125	
Ge	72	He	65959	1.31	69469	94.95	70	125	
Ge	72	H2	944257	0.45	990900	95.29	70	125	
In	115	He	509823	1.44	553695	92.08	70	125	
Lu	175	He	1774660	1.97	1872725	94.76	70	125	
Th	232	He	4085309	1.00	4140443	98.67	70	125	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	012ICSB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:03:42-07:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.010	14.815	32	13.95	-1	-1.0	
B	10	No Gas	0.523	11.214	480	7.32	-1	-52.3	
B	11	No Gas	0.575	3.071	2470	1.64	-1	-57.5	
V	51	He	50.808	2.160	87739	0.77	50	101.6	
Cr	52	He	49.147	1.530	123126	0.29	50	98.3	
Cr	53	He	47.917	3.773	15337	4.02	50	95.8	
Mn	55	He	51.828	2.743	45765	1.21	50	103.7	
Co	59	He	48.529	1.239	236913	0.40	50	97.1	
Ni	60	He	47.342	2.252	71419	0.64	50	94.7	
Ni	62	He	46.457	3.937	11185	2.70	50	92.9	
Cu	63	He	47.431	0.869	199000	0.68	50	94.9	
Cu	65	He	47.286	2.161	100642	0.96	50	94.6	
Zn	66	He	23.806	3.075	11634	1.53	25	95.2	
As	75	He	25.351	2.748	5878	1.25	25	101.4	
Se	77	H2	26.057	1.186	5648	1.68	25	104.2	
Se	78	H2	24.765	1.674	14636	1.70	25	99.1	
Mo	95	He	52.354	0.650	92616	0.68	50	104.7	
Mo	97	He	52.429	1.833	62073	1.83	50	104.9	
Mo	98	He	53.170	1.266	163884	1.08	50	106.3	
Ag	107	He	12.184	0.324	85897	0.61	12.5	97.5	
Ag	109	He	12.253	1.749	86550	1.92	12.5	98.0	
Cd	111	He	25.000	1.058	18022	0.78	25	100.0	
Cd	114	He	24.576	0.610	46004	0.34	25	98.3	
Sb	121	He	0.269	3.385	429	3.14	-1	-26.9	
Sb	123	He	0.252	10.758	331	10.01	-1	-25.2	
Ba	135	He	0.166	34.586	41	30.69	-1	-16.6	
Ba	137	He	0.140	17.907	68	14.63	-1	-14.0	
Tl	203	He	0.004	52.513	52	25.80	-1	-0.4	
Tl	205	He	0.008	24.951	171	17.57	-1	-0.8	
[Pb]	206	He	0.073	1.714	440	2.00	-1	-7.3	
[Pb]	207	He	0.090	12.232	473	11.27	-1	-9.0	
Pb	208	He	0.084	3.109	2009	3.29	-1	-8.4	
U	238	He	0.001	57.304	47	43.45	-1	-0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4837276	1.68	5024664	96.27	70	125	
Ge	72	He	69020	1.52	69469	99.35	70	125	
Ge	72	H2	977995	0.81	990900	98.70	70	125	
In	115	He	531977	0.40	553695	96.08	70	125	
Lu	175	He	1816546	0.54	1872725	97.00	70	125	
Th	232	He	4199799	0.41	4140443	101.43	70	125	

Prep Blank (PB) Report

Sample Table

Sample Name	KQ1510753-03
Data File Name	013_PB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:07:30-07:00
Sample Type	PB
Dilution	1
Comment	5
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.000	164.7	5	21.7	0.04	
B	10	No Gas	0.111	86.8	300	15.4	10	
B	11	No Gas	0.091	84.2	1428	10.9	10	
V	51	He	0.001	331.8	42	12.1	0.4	
Cr	52	He	0.063	90.6	927	15.8	0.4	
Cr	53	He	-0.010	-993.8	113	28.1	0.4	
Mn	55	He	0.044	115.4	70	65.5	0.1	
Co	59	He	0.002	157.3	54	35.9	0.04	
Ni	60	He	-0.198	-9.4	3605	0.7	0.4	
Ni	62	He	-0.203	-142.6	531	13.1	0.4	
Cu	63	He	0.026	4.8	171	3.0	0.2	
Cu	65	He	0.028	30.2	106	17.4	0.2	
Zn	66	He	0.319	19.0	257	11.9	1	
As	75	He	0.011	186.8	5	92.5	0.4	
Se	77	H2	-0.219	-55.5	713	4.1	2	
Se	78	H2	0.007	104.9	10	45.8	1	
Mo	95	He	0.016	81.7	43	58.1	0.1	
Mo	97	He	0.016	10.1	32	6.0	0.1	
Mo	98	He	0.016	44.3	64	36.3	0.1	
Ag	107	He	0.001	147.0	26	49.4	0.04	
Ag	109	He	0.003	50.6	50	24.0	0.04	
Cd	111	He	0.003	86.5	5	43.6	0.04	
Cd	114	He	0.098	3.0	203	2.7	0.04	Flag
Sb	121	He	-0.002	-251.9	14	54.5	0.1	
Sb	123	He	-0.002	-99.9	13	19.9	0.1	
Ba	135	He	-0.005	-0.6	3	0.0	0.1	
Ba	137	He	0.007	94.2	15	19.2	0.1	
Tl	203	He	0.001	298.0	33	50.0	0.04	
Tl	205	He	0.003	41.2	99	19.2	0.04	
[Pb]	206	He	0.002	245.1	71	42.0	0.1	
[Pb]	207	He	0.002	204.7	66	28.0	0.1	
Pb	208	He	0.005	41.1	334	13.2	0.1	
U	238	He	0.001	116.1	30	72.9	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5011296	1.70	5024664	99.73	70	125	
Ge	72	He	70625	0.33	69469	101.66	70	125	
Ge	72	H2	989768	0.79	990900	99.89	70	125	
In	115	He	565272	0.23	553695	102.09	70	125	
Lu	175	He	1872602	1.70	1872725	99.99	70	125	
Th	232	He	4178900	0.37	4140443	100.93	70	125	

Laboratory Control Sample (LCSS) Report

Sample Table

Sample Name	KQ1510753-04
Data File Name	014_QCS.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:11:18-07:00
Sample Type	QCS
Dilution	1
Comment	20
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	38.812	2.398	108901	1.02	36.15	107.4	
B	10	No Gas	81.658	0.315	38892	1.32	72	113.4	
B	11	No Gas	80.233	1.552	186941	0.24	72	111.4	
V	51	He	52.438	1.925	90737	1.25	48.8	107.5	
Cr	52	He	72.808	1.066	182410	0.60	68	107.1	
Cr	53	He	70.393	0.661	22520	0.33	68	103.5	
Mn	55	He	174.735	0.453	154566	1.29	161.5	108.2	
Co	59	He	68.916	1.281	337098	0.82	64	107.7	
Ni	60	He	83.678	0.982	123575	0.73	76.5	109.4	
Ni	62	He	82.440	1.645	19456	2.50	76.5	107.8	
Cu	63	He	54.026	1.551	227099	0.60	51	105.9	
Cu	65	He	54.474	1.368	116178	1.19	51	106.8	
Zn	66	He	83.580	1.476	40696	1.86	80.5	103.8	
As	75	He	53.642	1.469	12461	1.47	49.8	107.7	
Se	77	H2	81.069	0.383	16177	0.33	75	108.1	
Se	78	H2	80.502	1.016	48099	1.00	75	107.3	
Mo	95	He	74.778	0.620	135218	0.49	66.5	112.4	
Mo	97	He	74.510	1.116	90171	1.18	66.5	112.0	
Mo	98	He	75.599	0.804	238191	0.99	66.5	113.7	
Ag	107	He	21.613	0.451	155740	0.53	20.2	107.0	
Ag	109	He	21.733	0.701	156903	0.34	20.2	107.6	
Cd	111	He	99.602	1.017	73391	1.04	91	109.5	
Cd	114	He	99.116	0.722	189635	0.47	91	108.9	
Sb	121	He	40.865	1.095	64145	0.74	44.1	92.7	
Sb	123	He	40.781	0.366	52246	0.40	44.1	92.5	
Ba	135	He	163.542	0.781	37251	0.83	155	105.5	
Ba	137	He	167.536	1.596	69916	1.39	155	108.1	
Tl	203	He	92.536	1.766	624984	1.10	87	106.4	
Tl	205	He	98.206	2.684	1612519	0.70	87	112.9	
[Pb]	206	He	65.901	2.369	344487	0.62	57.5	114.6	
[Pb]	207	He	63.328	2.255	294236	0.68	57.5	110.1	
Pb	208	He	64.944	2.660	1376489	0.53	57.5	112.9	
U	238	He	0.561	1.450	14226	1.82	-1	-56.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4966853	1.52	5024664	98.85	70	125	
Ge	72	He	69154	0.97	69469	99.55	70	125	
Ge	72	H2	989003	0.11	990900	99.81	70	125	
In	115	He	543792	0.36	553695	98.21	70	125	
Lu	175	He	1810598	2.86	1872725	96.68	70	125	
Th	232	He	4168735	0.36	4140443	100.68	70	125	

Sample Report

Sample Table

Sample Name	K1510282-001
Data File Name	015SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:15:31-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.009	23.04	30	0.03	
B	10	No Gas	1.270	3.29	836	0.15	
B	11	No Gas	1.274	2.58	4103	0.03	
V	51	He	0.361	11.12	660	0.05	
Cr	52	He	0.290	7.55	1466	0.02	
Cr	53	He	0.347	21.77	223	0.16	
Mn	55	He	8.426	4.29	7442	0.11	
Co	59	He	0.121	5.15	630	0.02	
Ni	60	He	0.258	67.27	4158	0.01	
Ni	62	He	0.351	130.00	642	0.05	
Cu	63	He	7.592	1.36	31788	0.02	
Cu	65	He	7.412	0.93	15756	0.05	
Zn	66	He	12.646	2.73	6206	0.20	
As	75	He	0.052	11.50	15	0.36	
Se	77	H2	0.011	638.73	746	0.00	
Se	78	H2	0.121	4.92	77	0.16	
Mo	95	He	0.078	42.21	156	0.05	
Mo	97	He	0.058	13.09	83	0.07	
Mo	98	He	0.068	8.75	229	0.03	
Ag	107	He	0.133	0.60	991	0.01	
Ag	109	He	0.125	4.38	944	0.01	
Cd	111	He	0.029	22.64	24	0.12	
Cd	114	He	0.049	8.57	104	0.05	
Sb	121	He	0.019	54.25	47	0.04	
Sb	123	He	0.016	74.46	36	0.04	
Ba	135	He	1.921	6.00	449	0.43	
Ba	137	He	1.971	5.46	847	0.23	
Tl	203	He	0.040	12.03	297	0.01	
Tl	205	He	0.039	15.43	688	0.01	
[Pb]	206	He	0.279	4.83	1510	0.02	
[Pb]	207	He	0.268	2.44	1295	0.02	
Pb	208	He	0.278	2.93	6071	0.00	
U	238	He	0.007	18.31	186	0.00	

See 115 not needed 10/5/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4903633	1.46	5024664	97.59	70	125	
Ge	72	He	68767	1.44	69469	98.99	70	125	
Ge	72	H2	975750	1.49	990900	98.47	70	125	
In	115	He	552326	0.84	553695	99.75	70	125	
Lu	175	He	1802905	1.63	1872725	96.27	70	125	
Th	232	He	4090789	2.55	4140443	98.80	70	125	

Sample Report

Sample Table

Sample Name	K1510507-001
Data File Name	016SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:19:19-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.058	7.26	167	0.03	
B	10	No Gas	2.546	9.52	1448	0.18	
B	11	No Gas	2.656	7.78	7344	0.04	
V	51	He	20.822	1.70	35672	0.06	
Cr	52	He	29.838	1.86	74397	0.04	
Cr	53	He	28.186	2.03	8989	0.31	
Mn	55	He	525.065	0.71	459438	0.11	
Co	59	He	1.577	3.69	7668	0.02	
Ni	60	He	5.107	1.80	11005	0.05	
Ni	62	He	5.303	2.09	1762	0.30	
Cu	63	He	5.370	1.83	22389	0.02	
Cu	65	He	5.329	1.64	11284	0.05	
Zn	66	He	67.158	0.96	32372	0.21	
As	75	He	0.488	14.58	115	0.43	
Se	77	H2	0.305	52.65	798	0.04	
Se	78	H2	0.024	71.75	20	0.12	
Mo	95	He	0.265	18.81	492	0.05	
Mo	97	He	0.248	3.50	313	0.08	
Mo	98	He	0.263	4.13	844	0.03	
Ag	107	He	0.024	31.08	190	0.01	
Ag	109	He	0.018	16.21	157	0.01	
Cd	111	He	0.100	6.69	77	0.13	
Cd	114	He	0.106	2.03	213	0.05	
Sb	121	He	0.088	23.00	156	0.06	
Sb	123	He	0.112	2.59	158	0.07	
Ba	135	He	17.095	0.12	3917	0.44	
Ba	137	He	17.514	2.09	7355	0.24	
Tl	203	He	0.020	4.54	167	0.01	
Tl	205	He	0.022	9.44	421	0.01	
[Pb]	206	He	7.745	1.57	40950	0.02	
[Pb]	207	He	7.580	4.19	35604	0.02	
Pb	208	He	7.665	2.52	164265	0.00	
U	238	He	0.136	5.08	3450	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4962640	2.48	5024664	98.77	70	125	
Ge	72	He	68418	0.73	69469	98.49	70	125	
Ge	72	H2	972891	0.64	990900	98.18	70	125	
In	115	He	546507	1.06	553695	98.70	70	125	
Lu	175	He	1828386	2.32	1872725	97.63	70	125	
Th	232	He	4156217	0.65	4140443	100.38	70	125	

Sample Report

Sample Table

Sample Name	K1510571-001
Data File Name	017SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:23:08-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.105	5.08	298	0.04	
B	10	No Gas	4.381	4.02	2317	0.19	
B	11	No Gas	4.096	3.73	10679	0.04	
V	51	He	7.705	3.39	13451	0.06	
Cr	52	He	5.925	1.96	15633	0.04	
Cr	53	He	5.699	1.89	1940	0.29	
Mn	55	He	67.061	2.60	59707	0.11	
Co	59	He	1.403	3.98	6948	0.02	
Ni	60	He	3.990	2.21	9585	0.04	
Ni	62	He	3.774	3.13	1440	0.26	
Cu	63	He	29.755	2.04	125890	0.02	
Cu	65	He	29.686	1.95	63730	0.05	
Zn	66	He	43.843	1.72	21527	0.20	
As	75	He	2.128	5.16	500	0.43	
Se	77	H2	0.126	48.63	769	0.02	
Se	78	H2	0.182	9.69	113	0.16	
Mo	95	He	0.563	2.91	1040	0.05	
Mo	97	He	0.542	0.97	674	0.08	
Mo	98	He	0.567	6.12	1815	0.03	
Ag	107	He	1.641	1.24	11960	0.01	
Ag	109	He	1.664	2.37	12158	0.01	
Cd	111	He	0.350	2.72	263	0.13	
Cd	114	He	0.383	3.51	749	0.05	
Sb	121	He	0.061	25.72	114	0.05	
Sb	123	He	0.063	17.44	97	0.07	
Ba	135	He	37.487	0.40	8627	0.43	
Ba	137	He	37.507	0.85	15817	0.24	
Tl	203	He	0.058	11.94	428	0.01	
Tl	205	He	0.065	3.25	1138	0.01	
[Pb]	206	He	2.321	1.92	12399	0.02	
[Pb]	207	He	2.177	2.95	10348	0.02	
Pb	208	He	2.256	0.81	48856	0.00	
U	238	He	1.945	2.60	49371	0.00	

See 1/5 not needed on 10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4961879	1.25	5024664	98.75	70	125	
Ge	72	He	69595	1.24	69469	100.18	70	125	
Ge	72	H2	977780	0.58	990900	98.68	70	125	
In	115	He	549181	0.56	553695	99.18	70	125	
Lu	175	He	1841255	0.79	1872725	98.32	70	125	
Th	232	He	4175827	0.73	4140443	100.85	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1510571-002
Data File Name	018_ARF.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:26:56-07:00
Sample Type	AllRef
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.085	4.90	243	0.03	
B	10	No Gas	3.263	10.07	1796	0.18	
B	11	No Gas	3.087	2.40	8388	0.04	
V	51	He	10.831	1.49	18727	0.06	
Cr	52	He	2.671	2.50	7397	0.04	
Cr	53	He	2.718	2.13	977	0.28	
Mn	55	He	47.233	0.47	41694	0.11	
Co	59	He	1.303	1.64	6399	0.02	
Ni	60	He	1.820	0.80	6402	0.03	
Ni	62	He	1.807	19.32	978	0.18	
Cu	63	He	3.102	2.77	13062	0.02	
Cu	65	He	3.031	1.73	6490	0.05	
Zn	66	He	8.699	2.80	4311	0.20	
As	75	He	12.727	1.07	2951	0.43	
Se	77	H2	-0.066	-347.91	740	-0.01	
Se	78	H2	0.019	39.50	17	0.11	
Mo	95	He	0.092	15.78	181	0.05	
Mo	97	He	0.111	21.89	148	0.08	
Mo	98	He	0.097	11.61	321	0.03	
Ag	107	He	0.015	15.06	123	0.01	
Ag	109	He	0.013	21.12	123	0.01	
Cd	111	He	0.015	52.64	13	0.11	
Cd	114	He	0.019	13.13	46	0.04	
Sb	121	He	0.039	18.34	79	0.05	
Sb	123	He	0.030	31.51	54	0.06	
Ba	135	He	21.057	4.51	4855	0.43	
Ba	137	He	20.967	4.37	8862	0.24	
Tl	203	He	0.052	13.07	389	0.01	
Tl	205	He	0.051	1.86	910	0.01	
[Pb]	206	He	0.883	7.32	4767	0.02	
[Pb]	207	He	0.785	0.79	3776	0.02	
Pb	208	He	0.833	2.98	18233	0.00	
U	238	He	0.436	3.99	11073	0.00	

m not used
10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4987220	1.44	5024664	99.25	70	125	
Ge	72	He	68975	0.18	69469	99.29	70	125	
Ge	72	H2	986691	0.91	990900	99.58	70	125	
In	115	He	550179	0.85	553695	99.36	70	125	
Lu	175	He	1846685	2.37	1872725	98.61	70	125	
Th	232	He	4178878	0.71	4140443	100.93	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002D
Data File Name	019SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:30:44-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.080	1.89	233	0.03	
B	10	No Gas	3.347	9.70	1855	0.18	
B	11	No Gas	3.080	2.74	8449	0.04	
V	51	He	10.561	2.39	18335	0.06	
Cr	52	He	2.592	1.81	7230	0.04	
Cr	53	He	2.465	8.55	900	0.27	
Mn	55	He	47.465	2.22	42075	0.11	
Co	59	He	1.266	1.70	6244	0.02	
Ni	60	He	1.742	10.34	6317	0.03	
Ni	62	He	2.039	15.79	1036	0.20	
Cu	63	He	3.076	3.41	13805	0.02	
Cu	65	He	2.934	1.56	6310	0.05	
Zn	66	He	8.433	3.79	4199	0.20	
As	75	He	11.406	2.35	2656	0.43	
Se	77	H2	-0.126	-122.15	720	-0.02	
Se	78	H2	0.010	106.18	11	0.09	
Mo	95	He	0.082	14.89	162	0.05	
Mo	97	He	0.072	13.85	100	0.07	
Mo	98	He	0.096	12.87	317	0.03	
Ag	107	He	0.011	8.48	93	0.01	
Ag	109	He	0.008	21.24	83	0.01	
Cd	111	He	0.015	3.47	14	0.11	
Cd	114	He	0.021	15.06	48	0.04	
Sb	121	He	0.039	8.64	78	0.05	
Sb	123	He	0.037	18.56	62	0.06	
Ba	135	He	21.216	2.90	4873	0.44	
Ba	137	He	20.607	2.93	8676	0.24	
Tl	203	He	0.052	8.73	387	0.01	
Tl	205	He	0.051	10.90	894	0.01	
[Pb]	206	He	0.860	3.10	4631	0.02	
[Pb]	207	He	0.762	5.74	3654	0.02	
Pb	208	He	0.803	2.06	17528	0.00	
U	238	He	0.412	2.01	10523	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5033501	1.08	5024664	100.18	70	125	
Ge	72	He	69272	1.37	69469	99.72	70	125	
Ge	72	H2	975372	0.51	990900	98.43	70	125	
In	115	He	547966	0.88	553695	98.97	70	125	
Lu	175	He	1841244	2.26	1872725	98.32	70	125	
Th	232	He	4203388	1.08	4140443	101.52	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002L
Data File Name	020SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:34:33-07:00
Sample Type	Sample
Dilution	1
Comment	500
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.018	6.98	56	0.03	
B	10	No Gas	0.646	20.66	551	0.12	
B	11	No Gas	0.761	5.23	2974	0.03	
V	51	He	2.235	2.72	3873	0.06	
Cr	52	He	0.567	6.89	2148	0.03	
Cr	53	He	0.405	11.49	241	0.17	
Mn	55	He	9.818	1.50	8636	0.11	
Co	59	He	0.262	12.86	1312	0.02	
Ni	60	He	0.337	10.94	4258	0.01	
Ni	62	He	0.342	69.53	639	0.05	
Cu	63	He	0.639	1.43	2719	0.02	
Cu	65	He	0.632	5.10	1380	0.05	
Zn	66	He	1.863	10.18	992	0.19	
As	75	He	2.614	5.02	604	0.43	
Se	77	H2	-0.089	-123.59	725	-0.01	
Se	78	H2	0.002	264.84	7	0.03	
Mo	95	He	0.018	26.18	44	0.04	
Mo	97	He	0.012	67.58	27	0.05	
Mo	98	He	0.023	29.58	83	0.03	
Ag	107	He	0.003	126.87	38	0.01	
Ag	109	He	0.000	5687.63	26	0.00	
Cd	111	He	0.004	156.73	5	0.07	
Cd	114	He	0.005	14.65	18	0.03	
Sb	121	He	0.007	104.89	28	0.03	
Sb	123	He	0.004	33.33	20	0.02	
Ba	135	He	4.047	5.57	930	0.44	
Ba	137	He	4.300	3.27	1813	0.24	
Tl	203	He	0.008	38.71	82	0.01	
Tl	205	He	0.012	17.28	248	0.00	
[Pb]	206	He	0.168	6.44	949	0.02	
[Pb]	207	He	0.155	4.88	788	0.02	
Pb	208	He	0.167	7.95	3810	0.00	
U	238	He	0.090	1.82	2268	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4974964	1.73	5024664	99.01	70	125	
Ge	72	He	68545	0.79	69469	98.67	70	125	
Ge	72	H2	973531	0.79	990900	98.25	70	125	
In	115	He	546096	0.71	553695	98.63	70	125	
Lu	175	He	1836820	2.38	1872725	98.08	70	125	
Th	232	He	4122595	0.35	4140443	99.57	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002A
Data File Name	021SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:38:20-07:00
Sample Type	Sample
Dilution	1
Comment	100 +100ppb
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	100.498	1.37	281439	0.04	
B	10	No Gas	106.815	3.61	50695	0.21	
B	11	No Gas	103.716	1.84	240822	0.04	
V	51	He	112.815	1.30	191477	0.06	
Cr	52	He	103.514	1.21	254116	0.04	
Cr	53	He	99.394	1.07	31150	0.32	
Mn	55	He	151.141	2.63	131152	0.12	
Co	59	He	100.939	1.04	484379	0.02	
Ni	60	He	100.450	1.18	144781	0.07	
Ni	62	He	100.715	1.42	23191	0.43	
Cu	63	He	103.000	0.59	424765	0.02	
Cu	65	He	102.521	0.51	214478	0.05	
Zn	66	He	107.810	1.72	51467	0.21	
As	75	He	113.043	0.45	25762	0.44	
Se	77	H2	99.669	1.41	19188	0.52	
Se	78	H2	98.259	0.74	57135	0.17	
Mo	95	He	97.645	1.01	174684	0.06	
Mo	97	He	98.483	0.93	117900	0.08	
Mo	98	He	99.631	0.63	310539	0.03	
Ag	107	He	0.019	17.56	153	0.01	
Ag	109	He	0.016	16.01	137	0.01	
Cd	111	He	98.610	0.62	71882	0.14	
Cd	114	He	99.373	0.69	188093	0.05	
Sb	121	He	99.944	0.95	155178	0.06	
Sb	123	He	99.891	0.82	126584	0.08	
Ba	135	He	120.205	1.29	27091	0.44	
Ba	137	He	122.650	0.78	50642	0.24	
Tl	203	He	96.240	1.57	661417	0.01	
Tl	205	He	108.923	2.37	1820027	0.01	
[Pb]	206	He	97.650	2.74	519369	0.02	
[Pb]	207	He	96.690	2.02	457134	0.02	
Pb	208	He	97.489	1.88	2102735	0.00	
U	238	He	107.218	1.25	2753059	0.00	

M 10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4956811	1.20	5024664	98.65	70	125	
Ge	72	He	67845	1.07	69469	97.66	70	125	
Ge	72	H2	962509	0.39	990900	97.13	70	125	
In	115	He	537988	1.02	553695	97.16	70	125	
Lu	175	He	1842177	2.13	1872725	98.37	70	125	
Th	232	He	4225351	0.49	4140443	102.05	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002S
Data File Name	022SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:42:06-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.184	3.72	3246	0.04	
B	10	No Gas	14.982	4.13	7282	0.21	
B	11	No Gas	14.551	0.98	34645	0.04	
V	51	He	22.169	1.12	37935	0.06	
Cr	52	He	6.826	4.42	17568	0.04	
Cr	53	He	6.501	2.16	2158	0.30	
Mn	55	He	57.794	1.46	50548	0.11	
Co	59	He	11.751	1.78	56834	0.02	
Ni	60	He	12.269	0.12	21123	0.06	
Ni	62	He	11.537	2.46	3171	0.36	
Cu	63	He	8.300	2.06	34526	0.02	
Cu	65	He	8.161	1.93	17238	0.05	
Zn	66	He	18.554	4.76	9000	0.21	
As	75	He	23.600	1.57	5420	0.44	
Se	77	H2	11.183	3.43	2819	0.40	
Se	78	H2	10.445	1.16	6110	0.17	
Mo	95	He	10.020	1.77	18092	0.06	
Mo	97	He	10.041	2.36	12138	0.08	
Mo	98	He	10.182	1.43	32025	0.03	
Ag	107	He	1.035	2.32	7463	0.01	
Ag	109	He	1.040	2.05	7518	0.01	
Cd	111	He	1.071	4.74	790	0.14	
Cd	114	He	1.068	2.31	2047	0.05	
Sb	121	He	2.743	3.90	4312	0.06	
Sb	123	He	2.720	1.81	3492	0.08	
Ba	135	He	41.486	2.82	9434	0.44	
Ba	137	He	42.676	0.95	17783	0.24	
Tl	203	He	2.105	0.62	14499	0.01	
Tl	205	He	2.125	2.55	35568	0.01	
[Pb]	206	He	10.745	1.73	57234	0.02	
[Pb]	207	He	11.115	1.98	52623	0.02	
Pb	208	He	10.959	2.01	236673	0.00	
U	238	He	0.402	2.52	10186	0.00	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4930897	0.75	5024664	98.13	70	125	
Ge	72	He	68343	1.14	69469	98.38	70	125	
Ge	72	H2	967576	0.58	990900	97.65	70	125	
In	115	He	542727	0.67	553695	98.02	70	125	
Lu	175	He	1842880	1.43	1872725	98.41	70	125	
Th	232	He	4169928	0.69	4140443	100.71	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	023_CCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:45:54-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.128	1.050	70387	0.60	25	101	
B	10	No Gas	26.507	0.613	12766	0.22	25	106	
B	11	No Gas	26.091	0.458	61495	0.10	25	104	
V	51	He	25.516	2.078	43694	2.15	25	102	
Cr	52	He	25.357	0.707	63319	0.63	25	101	
Cr	53	He	24.995	1.678	7982	1.63	25	100	
Mn	55	He	25.860	1.728	22649	1.66	25	103	
Co	59	He	25.501	0.236	123403	0.17	25	102	
Ni	60	He	25.247	1.828	39512	1.70	25	101	
Ni	62	He	25.915	2.832	6432	2.58	25	104	
Cu	63	He	25.432	0.127	105774	0.14	25	102	
Cu	65	He	24.921	0.478	52593	0.48	25	100	
Zn	66	He	24.654	1.125	11940	1.10	25	99	
As	75	He	25.494	1.053	5859	1.10	25	102	
Se	77	H2	25.164	4.441	5476	3.06	25	101	
Se	78	H2	25.055	1.160	14802	2.02	25	100	
Mo	95	He	24.661	1.038	44950	0.65	25	99	
Mo	97	He	24.663	1.219	30088	0.81	25	99	
Mo	98	He	25.206	0.337	80045	0.41	25	101	
Ag	107	He	25.140	1.057	182565	0.65	25	101	
Ag	109	He	25.291	0.757	184021	1.04	25	101	
Cd	111	He	25.053	0.867	18606	0.59	25	100	
Cd	114	He	25.119	0.770	48442	0.59	25	100	
Sb	121	He	25.273	0.439	39988	0.46	25	101	
Sb	123	He	25.386	1.229	32783	0.88	25	102	
Ba	135	He	25.259	0.779	5802	0.79	25	101	
Ba	137	He	25.511	1.284	10740	1.11	25	102	
Tl	203	He	24.715	2.352	170200	0.81	25	99	
Tl	205	He	24.899	2.563	416892	0.52	25	100	
[Pb]	206	He	25.034	1.720	133473	0.74	25	100	
[Pb]	207	He	24.971	2.128	118332	0.81	25	100	
Pb	208	He	24.892	2.312	538099	0.66	25	100	
U	238	He	24.642	3.343	631104	0.74	25	99	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4957341	0.46	5024664	98.66	70	125	
Ge	72	He	68396	0.07	69469	98.46	70	125	
Ge	72	H2	977585	1.36	990900	98.66	70	125	
In	115	He	548055	0.41	553695	98.98	70	125	
Lu	175	He	1845925	2.44	1872725	98.57	70	125	
Th	232	He	4217035	2.74	4140443	101.85	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	024_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:49:43-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.006	40.0	21	31.9	0.04	
B	10	No Gas	1.065	13.2	742	9.0	10	
B	11	No Gas	1.048	7.7	3598	4.7	10	
V	51	He	0.027	102.5	87	55.5	0.4	
Cr	52	He	-0.001	-2568.7	746	6.6	0.4	
Cr	53	He	0.002	2505.0	114	16.0	0.4	
Mn	55	He	0.054	75.1	77	45.8	0.1	
Co	59	He	0.008	37.2	79	17.1	0.04	
Ni	60	He	-0.025	-216.2	3764	2.1	0.4	
Ni	62	He	-0.097	-113.3	542	5.0	0.4	
Cu	63	He	0.011	42.2	103	18.0	0.2	
Cu	65	He	0.001	466.7	47	25.8	0.2	
Zn	66	He	-0.051	-52.9	71	17.7	1	
As	75	He	0.004	55.5	4	15.7	0.4	
Sc	77	H2	0.013	1274.2	741	2.9	20	
Sc	78	H2	0.009	80.8	11	39.6	1	
Mo	95	He	0.000	1792.8	12	15.7	0.1	
Mo	97	He	-0.004	-61.8	7	50.0	0.1	
Mo	98	He	0.005	92.4	27	54.5	0.1	
Ag	107	He	0.001	68.2	22	17.3	0.04	
Ag	109	He	-0.001	-110.2	16	68.9	0.04	
Cd	111	He	0.011	34.9	11	26.5	0.04	
Cd	114	He	0.006	39.0	21	23.5	0.04	
Sb	121	He	0.013	38.4	38	20.8	0.2	
Sb	123	He	0.024	39.9	46	27.0	0.1	
Ba	135	He	0.044	106.4	14	74.2	0.1	
Ba	137	He	-0.005	-197.9	9	44.4	0.1	
Tl	203	He	0.021	7.5	170	6.8	0.04	
Tl	205	He	0.025	4.0	456	3.3	0.04	
[Pb]	206	He	0.002	93.1	69	14.8	0.1	
[Pb]	207	He	-0.001	-211.8	51	16.4	0.1	
Pb	208	He	0.002	22.8	268	3.8	0.1	
U	238	He	0.003	15.7	92	15.0	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4920966	0.76	5024664	97.94	70	125	
Ge	72	He	68896	0.83	69469	99.17	70	125	
Ge	72	H2	969098	1.35	990900	97.80	70	125	
In	115	He	548404	0.25	553695	99.04	70	125	
Lu	175	He	1828087	0.74	1872725	97.62	70	125	
Th	232	He	4134844	2.42	4140443	99.86	70	125	

Sample Report

Sample Table

Sample Name	K1510571-003
Data File Name	025SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:53:31-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.110	9.95	313	0.04	
B	10	No Gas	4.799	1.29	2522	0.19	
B	11	No Gas	4.653	2.83	12007	0.04	
V	51	He	7.341	1.61	12721	0.06	
Cr	52	He	3.957	1.41	10611	0.04	
Cr	53	He	3.539	5.71	1239	0.29	
Mn	55	He	70.463	0.92	62272	0.11	
Co	59	He	1.537	3.37	7547	0.02	
Ni	60	He	3.053	1.79	8173	0.04	
Ni	62	He	2.966	8.86	1244	0.24	
Cu	63	He	4.117	3.56	17338	0.02	
Cu	65	He	4.084	0.55	8740	0.05	
Zn	66	He	12.781	3.50	6297	0.20	
As	75	He	1.392	9.38	326	0.43	
Se	77	H2	-0.002	-6972.63	740	0.00	
Se	78	H2	0.038	63.31	28	0.14	
Mo	95	He	0.173	2.12	324	0.05	
Mo	97	He	0.194	10.42	247	0.08	
Mo	98	He	0.196	7.36	627	0.03	
Ag	107	He	0.122	4.05	896	0.01	
Ag	109	He	0.118	4.44	876	0.01	
Cd	111	He	0.063	16.51	49	0.13	
Cd	114	He	0.062	4.90	126	0.05	
Sb	121	He	0.053	11.20	99	0.05	
Sb	123	He	0.056	24.33	87	0.06	
Ba	135	He	30.553	0.89	6950	0.44	
Ba	137	He	30.398	2.98	12672	0.24	
Tl	203	He	0.072	8.21	516	0.01	
Tl	205	He	0.077	0.93	1319	0.01	
[Pb]	206	He	1.182	1.82	6302	0.02	
[Pb]	207	He	1.067	1.31	5063	0.02	
Pb	208	He	1.120	1.78	24211	0.00	
U	238	He	0.654	1.59	16571	0.00	

not needed 10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4978648	0.70	5024664	99.08	70	125	
Ge	72	He	69069	0.65	69469	99.42	70	125	
Ge	72	H2	972127	0.17	990900	98.11	70	125	
In	115	He	542789	0.68	553695	98.03	70	125	
Lu	175	He	1829421	1.72	1872725	97.69	70	125	
Th	232	He	4169863	1.31	4140443	100.71	70	125	

Sample Report

Sample Table

Sample Name	K1510571-004
Data File Name	026SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T18:57:19-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.104	9.88	299	0.03	
B	10	No Gas	5.288	3.43	2774	0.19	
B	11	No Gas	5.225	2.64	13427	0.04	
V	51	He	11.115	1.26	19079	0.06	
Cr	52	He	3.996	1.63	10617	0.04	
Cr	53	He	3.740	8.22	1292	0.29	
Mn	55	He	71.383	3.07	62557	0.11	
Co	59	He	1.499	1.39	7300	0.02	
Ni	60	He	2.937	2.86	7940	0.04	
Ni	62	He	2.806	20.97	1197	0.23	
Cu	63	He	4.888	0.40	20401	0.02	
Cu	65	He	4.871	0.03	10329	0.05	
Zn	66	He	12.824	2.37	6263	0.20	
As	75	He	5.793	3.92	1335	0.43	
Se	77	H2	0.063	358.25	749	0.01	
Se	78	H2	0.028	27.23	22	0.13	
Mo	95	He	0.141	22.88	267	0.05	
Mo	97	He	0.147	34.33	190	0.08	
Mo	98	He	0.167	8.00	539	0.03	
Ag	107	He	0.110	2.20	808	0.01	
Ag	109	He	0.105	6.27	784	0.01	
Cd	111	He	0.049	13.16	39	0.13	
Cd	114	He	0.053	3.58	109	0.05	
Sb	121	He	0.046	3.28	89	0.05	
Sn	123	He	0.043	10.27	70	0.06	
Ba	135	He	25.141	3.92	5738	0.44	
Ba	137	He	25.927	2.24	10844	0.24	
Tl	203	He	0.059	8.90	432	0.01	
Tl	205	He	0.061	13.72	1066	0.01	
[Pb]	206	He	1.166	0.57	6288	0.02	
[Pb]	207	He	1.021	1.69	4906	0.02	
Pb	208	He	1.084	1.14	23706	0.00	
U	238	He	0.916	1.12	23250	0.00	

10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5013544	1.24	5024664	99.78	70	125	
Ge	72	He	68482	1.03	69469	98.58	70	125	
Ge	72	H2	968010	0.54	990900	97.69	70	125	
In	115	He	544489	0.21	553695	98.34	70	125	
Lu	175	He	1850470	0.52	1872725	98.81	70	125	
Th	232	He	4174570	0.89	4140443	100.82	70	125	

Sample Report

Sample Table

Sample Name	K1510571-005
Data File Name	027SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:01:07-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.080	8.41	231	0.03	
B	10	No Gas	2.967	2.35	1665	0.18	
B	11	No Gas	2.944	0.59	8099	0.04	
V	51	He	6.584	2.24	11301	0.06	
Cr	52	He	5.564	1.42	14473	0.04	
Cr	53	He	5.194	4.21	1748	0.30	
Mn	55	He	61.027	2.91	53406	0.11	
Co	59	He	1.258	2.81	6128	0.02	
Ni	60	He	3.577	8.93	8836	0.04	
Ni	62	He	3.588	13.79	1373	0.26	
Cu	63	He	26.769	1.19	111318	0.02	
Cu	65	He	26.583	0.87	56094	0.05	
Zn	66	He	42.185	2.49	20361	0.21	
As	75	He	1.797	3.38	415	0.43	
Se	77	H2	0.200	111.55	772	0.03	
Se	78	H2	0.191	12.50	117	0.16	
Mo	95	He	0.421	8.26	772	0.05	
Mo	97	He	0.422	11.80	522	0.08	
Mo	98	He	0.361	6.18	1147	0.03	
Ag	107	He	2.247	1.59	16181	0.01	
Ag	109	He	2.201	1.85	15889	0.01	
Cd	111	He	0.518	5.08	383	0.14	
Cd	114	He	0.534	0.87	1028	0.05	
Sb	121	He	0.076	8.06	136	0.06	
Sb	123	He	0.067	23.57	100	0.07	
Ba	135	He	39.026	1.79	8878	0.44	
Ba	137	He	37.739	1.84	15732	0.24	
Tl	203	He	0.054	14.63	394	0.01	
Tl	205	He	0.053	6.13	930	0.01	
Pb	206	He	2.380	1.94	12696	0.02	
Pb	207	He	2.260	1.19	10724	0.02	
Pb	208	He	2.322	0.53	50218	0.00	
U	238	He	1.231	1.37	30742	0.00	

10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5013313	1.76	5024664	99.77	70	125	
Ge	72	He	68393	0.58	69469	98.45	70	125	
Ge	72	H2	964580	0.66	990900	97.34	70	125	
In	115	He	542905	0.36	553695	98.05	70	125	
Lu	175	He	1838924	0.93	1872725	98.20	70	125	
Tl	232	He	4108228	0.68	4140443	99.22	70	125	

Sample Report

Sample Table

Sample Name	K1510571-006
Data File Name	028SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:04:56-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.092	7.51	261	0.04	
B	10	No Gas	5.382	4.22	2774	0.19	
B	11	No Gas	5.105	1.96	12939	0.04	
V	51	He	8.470	1.60	14526	0.06	
Cr	52	He	3.281	2.63	8838	0.04	
Cr	53	He	3.175	2.02	1112	0.29	
Mn	55	He	77.399	1.06	67716	0.11	
Co	59	He	1.487	3.92	7229	0.02	
Ni	60	He	2.362	2.65	7114	0.03	
Ni	62	He	2.206	17.68	1060	0.21	
Cu	63	He	2.860	3.50	11943	0.02	
Cu	65	He	2.866	0.83	6086	0.05	
Zn	66	He	10.520	1.69	5149	0.20	
As	75	He	3.591	2.09	827	0.43	
Se	77	H2	0.151	58.99	763	0.02	
Se	78	H2	0.019	35.69	17	0.11	
Mo	95	He	0.212	10.68	392	0.05	
Mo	97	He	0.235	8.90	294	0.08	
Mo	98	He	0.234	14.75	744	0.03	
Ag	107	He	0.019	9.31	152	0.01	
Ag	109	He	0.013	6.25	117	0.01	
Cd	111	He	0.026	31.81	22	0.12	
Cd	114	He	0.033	3.68	72	0.05	
Sb	121	He	0.033	34.40	69	0.05	
Sb	123	He	0.032	32.88	56	0.06	
Ba	135	He	24.104	3.36	5463	0.44	
Ba	137	He	24.602	1.65	10219	0.24	
Tl	203	He	0.052	16.67	373	0.01	
Tl	205	He	0.055	9.77	928	0.01	
Pb	206	He	0.948	2.87	4926	0.02	
Pb	207	He	0.857	4.12	3964	0.02	
Pb	208	He	0.903	3.08	19007	0.00	
U	238	He	0.612	2.35	15498	0.00	

10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4934119	0.46	5024664	98.20	70	125	
Ga	72	He	68380	0.53	69469	98.43	70	125	
Ga	72	H2	964190	0.58	990900	97.30	70	125	
In	115	He	540726	0.16	553695	97.66	70	125	
Lu	175	He	1778713	1.56	1872725	94.98	70	125	
Th	232	He	4166489	1.18	4140443	100.63	70	125	

Sample Report

Sample Table

Sample Name	K1510571-007
Data File Name	029SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:08:44-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.084	12.48	236	0.04	
B	10	No Gas	3.024	1.69	1649	0.18	
B	11	No Gas	2.763	0.82	7479	0.04	
V	51	He	5.961	0.95	10319	0.06	
Cr	52	He	4.579	2.16	12138	0.04	
Cr	53	He	4.253	6.29	1463	0.29	
Mn	55	He	55.481	0.45	48943	0.11	
Co	59	He	1.132	1.56	5562	0.02	
Ni	60	He	3.039	6.63	8138	0.04	
Ni	62	He	3.259	3.56	1309	0.25	
Cu	63	He	19.358	1.05	81157	0.02	
Cu	65	He	19.186	0.52	40820	0.05	
Zn	66	He	30.890	0.54	15054	0.21	
As	75	He	1.502	4.48	350	0.43	
Se	77	H2	0.076	276.81	752	0.01	
Se	78	H2	0.136	11.20	85	0.16	
Mo	95	He	0.346	10.80	641	0.05	
Mo	97	He	0.356	16.70	446	0.08	
Mo	98	He	0.361	2.53	1154	0.03	
Ag	107	He	1.594	1.37	11570	0.01	
Ag	109	He	1.629	2.31	11858	0.01	
Cd	111	He	0.334	4.97	250	0.13	
Cd	114	He	0.336	5.09	656	0.05	
Sb	121	He	0.041	18.55	82	0.05	
Sb	123	He	0.050	36.33	79	0.06	
Ba	135	He	30.184	0.68	6922	0.44	
Ba	137	He	30.308	2.36	12737	0.24	
Tl	203	He	0.050	11.76	364	0.01	
Tl	205	He	0.046	11.60	804	0.01	
Pb	206	He	2.021	1.33	10635	0.02	
Pb	207	He	1.901	1.78	8900	0.02	
Pb	208	He	1.971	0.90	42045	0.00	
U	238	He	1.049	1.94	26232	0.00	

10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4886616	0.54	5024664	97.25	70	125	
Ge	72	He	68937	0.82	69469	99.23	70	125	
Ge	72	H2	968660	0.47	990900	97.76	70	125	
In	115	He	547162	0.22	553695	98.82	70	125	
Lu	175	He	1812662	0.86	1872725	96.79	70	125	
Th	232	He	4111516	1.31	4140443	99.30	70	125	

Sample Report

Sample Table

Sample Name	K1510571-008
Data File Name	030SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:12:33-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.118	6.62	334	0.04	
B	10	No Gas	6.958	1.29	3530	0.20	
B	11	No Gas	6.431	5.47	16058	0.04	
V	51	He	10.197	1.05	17638	0.06	
Cr	52	He	4.198	2.01	11199	0.04	
Cr	53	He	3.986	11.58	1379	0.29	
Mn	55	He	92.444	1.81	81592	0.11	
Co	59	He	1.666	1.84	8173	0.02	
Ni	60	He	3.121	2.59	8261	0.04	
Ni	62	He	2.744	27.97	1191	0.23	
Cu	63	He	4.681	2.97	19682	0.02	
Cu	65	He	4.702	2.06	10044	0.05	
Zn	66	He	14.426	5.87	7086	0.20	
As	75	He	3.879	6.66	901	0.43	
Se	77	H2	-0.162	-120.62	704	-0.02	
Se	78	H2	0.030	11.95	23	0.13	
Mo	95	He	0.139	14.26	261	0.05	
Mo	97	He	0.158	22.51	202	0.08	
Mo	98	He	0.160	7.20	512	0.03	
Ag	107	He	0.106	2.63	772	0.01	
Ag	109	He	0.116	16.71	854	0.01	
Cd	111	He	0.062	8.81	48	0.13	
Cd	114	He	0.065	8.91	133	0.05	
Sb	121	He	0.043	10.06	83	0.05	
Sb	123	He	0.038	15.67	63	0.06	
Ba	135	He	29.382	3.57	6655	0.44	
Ba	137	He	29.750	1.00	12350	0.24	
Tl	203	He	0.058	14.31	418	0.01	
Tl	205	He	0.065	4.49	1108	0.01	
[Pb]	206	He	1.216	2.37	6408	0.02	
[Pb]	207	He	1.141	1.93	5349	0.02	
Pb	208	He	1.162	0.79	24819	0.00	
U	238	He	0.787	2.10	19812	0.00	

10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4956862	1.60	5024664	98.65	70	125	
Ge	72	He	68993	0.97	69469	99.31	70	125	
Ge	72	H2	963545	0.76	990900	97.24	70	125	
In	115	He	540505	0.85	553695	97.62	70	125	
Lu	175	He	1808723	1.31	1872725	96.58	70	125	
Th	232	He	4139680	0.07	4140443	99.98	70	125	

Sample Report

Sample Table

Sample Name	K1510571-009
Data File Name	031SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:16:22-07:00
Sample Type	Sample
Dilution	1
Comment	100
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.110	3.06	313	0.04	
B	10	No Gas	4.033	2.98	2150	0.19	
B	11	No Gas	3.911	2.66	10244	0.04	
V	51	He	9.589	0.69	16619	0.06	
Cr	52	He	4.422	2.17	11778	0.04	
Cr	53	He	4.301	1.43	1482	0.29	
Mn	55	He	77.559	1.14	68586	0.11	
Co	59	He	1.558	1.86	7658	0.02	
Ni	60	He	3.120	2.95	8274	0.04	
Ni	62	He	2.977	3.68	1248	0.24	
Cu	63	He	16.502	1.11	69374	0.02	
Cu	65	He	16.322	1.39	34824	0.05	
Zn	66	He	27.311	1.24	13355	0.20	
As	75	He	3.676	2.73	856	0.43	
Se	77	H2	-0.109	-32.43	715	-0.02	
Se	78	H2	0.099	12.96	63	0.16	
Mo	95	He	0.146	5.03	276	0.05	
Mo	97	He	0.142	26.18	183	0.08	
Mo	98	He	0.160	8.38	516	0.03	
Ag	107	He	1.100	4.96	7927	0.01	
Ag	109	He	1.097	1.88	7934	0.01	
Cd	111	He	0.233	1.50	174	0.13	
Cd	114	He	0.241	5.64	469	0.05	
Sb	121	He	0.057	25.47	106	0.05	
Sb	123	He	0.048	27.45	76	0.06	
Ba	135	He	35.445	2.34	8068	0.44	
Ba	137	He	35.018	1.36	14605	0.24	
Tl	203	He	0.052	4.20	383	0.01	
Tl	205	He	0.059	15.50	1032	0.01	
[Pb]	206	He	1.839	1.14	9745	0.02	
[Pb]	207	He	1.710	1.78	8065	0.02	
Pb	208	He	1.761	1.80	37833	0.00	
U	238	He	0.903	3.03	22776	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4958024	0.12	5024664	98.67	70	125	
Ge	72	He	69117	0.46	69469	99.49	70	125	
Ge	72	H2	964352	0.27	990900	97.32	70	125	
In	115	He	543100	0.61	553695	98.09	70	125	
Lu	175	He	1824727	0.75	1872725	97.44	70	125	
Th	232	He	4149469	1.16	4140443	100.22	70	125	

10/6/15

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	032_CCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:20:11-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.464	0.268	70487	1.19	25	102	
B	10	No Gas	26.218	2.327	12479	1.55	25	105	
B	11	No Gas	25.814	0.698	60141	1.68	25	103	
V	51	He	25.393	2.362	43753	2.28	25	102	
Cr	52	He	25.224	2.132	63381	1.73	25	101	
Cr	53	He	24.260	1.257	7798	0.73	25	97	
Mn	55	He	25.746	2.795	22692	3.27	25	103	
Co	59	He	25.339	0.655	123383	0.38	25	101	
Ni	60	He	24.844	1.045	39182	0.56	25	99	
Ni	62	He	24.444	4.666	6138	4.68	25	98	
Cu	63	He	24.987	1.300	104569	0.88	25	100	
[illegible]	65	He	25.049	1.464	53192	1.49	25	100	
[illegible]	66	He	25.051	1.661	12207	2.15	25	100	
As	75	He	25.777	1.759	5961	2.00	25	103	
Se	77	H2	25.161	3.337	5448	2.81	25	101	
Se	78	H2	25.072	0.769	14733	0.61	25	100	
Mo	95	He	25.239	0.599	45317	0.37	25	101	
Mo	97	He	25.010	3.468	30055	3.22	25	100	
[illegible]	98	He	25.318	0.557	79201	0.40	25	101	
[illegible]	107	He	25.533	0.596	182658	0.67	25	102	
Ag	109	He	25.290	1.008	181264	0.74	25	101	
Cd	111	He	25.244	0.993	18469	0.77	25	101	
Cd	114	He	25.355	0.574	48167	0.36	25	101	
Sb	121	He	25.439	1.340	39649	1.11	25	102	
Sb	123	He	25.189	0.413	32044	0.47	25	101	
[illegible]	135	He	24.900	1.704	5634	1.48	25	100	
[illegible]	137	He	25.472	1.626	10563	1.82	25	102	
Tl	203	He	24.492	1.926	167117	0.95	25	98	
Tl	205	He	25.026	1.429	415223	1.20	25	100	
[illegible]	206	He	25.214	1.709	133188	0.37	25	101	
[illegible]	207	He	24.840	0.326	116647	1.48	25	99	
[illegible]	208	He	24.935	1.599	534096	0.60	25	100	
U	238	He	24.738	0.981	626499	0.43	25	99	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
S[illegible]	45	No Gas	4898787	1.03	5024664	97.49	70	125	
[illegible]	72	He	68822	0.52	69469	99.07	70	125	
[illegible]	72	H2	972422	0.23	990900	98.14	70	125	
In	115	He	539873	0.28	553695	97.50	70	125	
Lu	175	He	1828726	1.78	1872725	97.65	70	125	
Th	232	He	4167671	0.76	4140443	100.66	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	033_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:23:59-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.003	63.5	14	41.6	0.04	
B	10	No Gas	0.557	37.1	503	19.2	10	
B	11	No Gas	0.491	12.0	2318	6.0	10	
V	51	He	0.002	235.6	43	20.4	0.4	
Cr	52	He	-0.013	-178.7	714	7.4	0.4	
Cr	53	He	-0.075	-117.3	90	32.3	0.4	
Mn	55	He	-0.007	-97.4	23	24.7	0.1	
Co	59	He	0.002	128.9	51	26.4	0.04	
Ni	60	He	-0.057	-111.1	3719	2.4	0.4	
Ni	62	He	-0.005	-5578.5	563	12.5	0.4	
Cu	63	He	0.005	165.1	78	42.9	0.2	
Cu	65	He	0.003	77.3	51	10.0	0.2	
Zn	66	He	-0.061	-50.0	67	22.9	1	
As	75	He	0.006	217.8	4	75.0	0.4	
Se	77	H2	0.078	129.4	758	2.8	20	
Se	78	H2	0.007	68.2	10	30.0	1	
Mo	95	He	-0.002	-91.9	8	49.5	0.1	
Mo	97	He	0.000	1028.8	12	15.7	0.1	
Mo	98	He	0.001	424.8	13	75.0	0.1	
Ag	107	He	0.001	205.6	24	67.3	0.04	
Ag	109	He	0.002	26.1	37	9.1	0.04	
Cd	111	He	0.006	20.0	7	12.4	0.04	
Cd	114	He	0.004	84.6	16	39.2	0.04	
Sb	121	He	0.011	54.4	34	27.9	0.2	
Sb	123	He	0.011	5.8	29	3.3	0.1	
Ba	135	He	-0.010	-173.8	2	173.2	0.1	
Ba	137	He	-0.006	-263.0	9	75.8	0.1	
Tl	203	He	0.012	30.1	112	23.1	0.04	
Tl	205	He	0.012	24.2	244	20.1	0.04	
[Pb]	206	He	0.000	-899.4	57	15.6	0.1	
[Pb]	207	He	0.000	-2378.9	54	44.3	0.1	
Pb	208	He	0.000	330.9	226	15.9	0.1	
U	238	He	0.003	22.2	74	18.6	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4915453	0.87	5024664	97.83	70	125	
Ge	72	He	68910	1.02	69469	99.20	70	125	
Ge	72	H2	975824	0.53	990900	98.48	70	125	
In	115	He	546016	1.07	553695	98.61	70	125	
Lu	175	He	1830709	0.74	1872725	97.76	70	125	
Th	232	He	4103769	0.32	4140443	99.11	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	034LCCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:27:47-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.037	4.238	107	4.81	0.04	93	
B	10	No Gas	1.417	6.399	892	4.57	1	142	
B	11	No Gas	1.243	5.785	3982	4.70	1	124	
V	51	He	0.396	14.024	711	11.52	0.4	99	
Cr	52	He	0.428	19.895	1786	10.92	0.4	107	
Cr	53	He	0.420	14.165	243	5.97	0.4	105	
Mn	55	He	0.063	58.398	83	36.66	0.1	63	LLCCV Failed
Co	59	He	0.042	35.392	241	28.48	0.04	105	
Ni	60	He	0.281	40.254	4141	3.17	0.4	70	
Ni	62	He	0.223	28.167	607	3.96	0.4	56	
Cu	63	He	0.222	14.085	971	11.55	0.2	111	
Cu	65	He	0.210	8.274	483	6.58	0.2	105	
Zn	66	He	0.951	15.760	548	11.52	1	95	
As	75	He	1.101	9.024	254	7.55	1	110	
Se	77	H2	1.840	12.711	1072	2.55	2	92	
Se	78	H2	1.966	4.256	1146	4.28	2	98	
Mo	95	He	0.113	11.270	213	9.76	0.1	113	
Mo	97	He	0.095	22.809	126	20.10	0.1	95	
Mo	98	He	0.100	4.793	323	5.45	0.1	100	
Ag	107	He	0.045	9.631	333	9.64	0.04	111	
Ag	109	He	0.041	13.677	317	11.72	0.04	102	
Cd	111	He	0.042	11.885	33	10.14	0.04	104	
Cd	114	He	0.043	8.875	89	7.40	0.04	107	
Sb	121	He	0.113	5.065	192	5.43	0.1	113	
Sb	123	He	0.102	6.636	143	6.15	0.1	102	
Ba	135	He	0.099	15.904	27	12.51	0.1	99	
Ba	137	He	0.120	39.562	61	31.79	0.1	120	
Tl	203	He	0.046	10.496	336	10.15	0.04	115	
Tl	205	He	0.050	4.213	860	5.38	0.04	124	
[illegible]	206	He	0.092	13.687	536	11.23	0.1	92	
[illegible]	207	He	0.092	2.896	479	3.43	0.1	92	
Pb	208	He	0.095	3.091	2216	2.30	0.1	95	
U	238	He	0.040	5.418	997	7.36	0.04	99	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4840438	0.94	5024664	96.33	70	125	
Ge	72	He	67937	1.76	69469	97.79	70	125	
Ge	72	H2	960703	1.47	990900	96.95	70	125	
In	115	He	537504	0.88	553695	97.08	70	125	
Lu	175	He	1800598	1.40	1872725	96.15	70	125	
Th	232	He	4097397	2.11	4140443	98.96	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	035LCCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:31:34-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.041	2.630	120	2.55	0.04	104	
B	10	No Gas	1.134	7.568	773	5.38	1	113	
B	11	No Gas	1.181	3.474	3898	2.57	1	118	
V	51	He	0.392	4.691	692	4.34	0.4	98	
Cr	52	He	0.428	3.684	1756	2.08	0.4	107	
Cr	53	He	0.220	24.021	178	9.25	0.4	55	
Mn	55	He	0.213	38.682	210	33.33	0.1	213	LLCCV Failed
Co	59	He	0.032	15.489	192	12.30	0.04	81	
Ni	60	He	0.300	20.700	4096	2.01	0.4	75	
Ni	62	He	0.266	75.521	606	7.43	0.4	66	
Cu	63	He	0.216	6.330	930	5.90	0.2	108	
Cu	65	He	0.223	16.231	502	14.80	0.2	112	
Zn	66	He	0.868	15.440	500	12.67	1	87	
As	75	He	1.052	2.774	238	2.73	1	105	
Se	77	H2	1.824	10.633	1068	3.74	2	91	
Se	78	H2	2.017	4.374	1175	4.99	2	101	
Mo	95	He	0.106	7.233	200	7.26	0.1	106	
Mo	97	He	0.087	5.067	116	4.41	0.1	87	
Mo	98	He	0.087	2.134	280	2.06	0.1	87	
Ag	107	He	0.044	9.440	328	8.53	0.04	110	
Ag	109	He	0.043	7.762	328	7.70	0.04	107	
Cd	111	He	0.037	13.895	29	12.91	0.04	93	
Cd	114	He	0.038	10.888	80	10.36	0.04	95	
Sb	121	He	0.106	15.739	181	14.72	0.1	106	
Sb	123	He	0.112	12.063	156	10.40	0.1	112	
Ba	135	He	0.090	67.386	24	55.10	0.1	90	
Ba	137	He	0.084	31.712	46	24.36	0.1	84	
Tl	203	He	0.044	6.572	320	5.51	0.04	109	
Tl	205	He	0.049	1.354	841	3.08	0.04	122	
[illegible]	206	He	0.098	3.946	563	3.07	0.1	98	
[illegible]	207	He	0.101	11.684	522	12.55	0.1	101	
[illegible]	208	He	0.097	2.624	2242	0.56	0.1	97	
U	238	He	0.040	13.777	991	13.27	0.04	100	

not needed in 10/5/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4912385	0.30	5024664	97.77	70	125	
Ge	72	He	66755	0.11	69469	96.09	70	125	
Ge	72	H2	959549	0.73	990900	96.84	70	125	
In	115	He	533741	0.57	553695	96.40	70	125	
Lu	175	He	1796690	2.31	1872725	95.94	70	125	
Th	232	He	4034086	0.39	4140443	97.43	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	036LCCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:35:23-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.035	13.742	99	12.94	0.04	87	
B	10	No Gas	1.191	11.104	788	7.83	1	119	
B	11	No Gas	1.021	4.748	3476	2.85	1	102	
V	51	He	0.390	11.848	601	10.32	0.4	97	
Cr	52	He	0.416	14.073	1732	8.12	0.4	104	
Cr	53	He	0.366	14.636	223	6.50	0.4	92	
Mn	55	He	0.169	29.685	173	24.02	0.1	169	LLCCV Failed
Co	59	He	0.039	29.858	226	23.66	0.04	98	
Ni	60	He	0.261	24.530	4054	1.24	0.4	65	LLCCV Failed
Ni	62	He	-0.007	-3976.791	547	11.58	0.4	-2	LLCCV Failed
Cu	63	He	0.237	4.105	1019	3.28	0.2	118	
Cu	65	He	0.228	20.226	513	19.36	0.2	114	
Zn	66	He	1.061	4.577	592	2.89	1	106	
As	75	He	1.094	1.562	249	2.36	1	109	
Se	77	H2	1.842	7.543	1066	2.44	2	92	
Se	78	H2	2.023	5.356	1173	5.74	2	101	
Mo	95	He	0.116	5.099	218	4.68	0.1	116	
Mo	97	He	0.074	8.001	99	7.02	0.1	74	
Mo	98	He	0.096	27.628	306	26.91	0.1	96	
Ag	107	He	0.038	25.272	287	24.03	0.04	96	
Ag	109	He	0.037	8.449	289	7.68	0.04	94	
Cd	111	He	0.048	14.528	37	13.73	0.04	119	
Cd	114	He	0.040	1.810	83	1.59	0.04	100	
Sb	121	He	0.092	8.010	158	7.37	0.1	92	
Sb	123	He	0.103	26.556	143	24.03	0.1	103	
Ba	135	He	0.091	53.060	24	43.83	0.1	91	
Ba	137	He	0.069	24.234	39	17.59	0.1	69	LLCCV Failed
Tl	203	He	0.040	17.894	292	15.57	0.04	101	
Tl	205	He	0.049	5.030	837	5.54	0.04	123	
[Pb]	206	He	0.099	21.554	561	20.51	0.1	99	
[Pb]	207	He	0.100	6.295	507	6.35	0.1	100	
Pb	208	He	0.098	8.556	2241	8.80	0.1	98	
U	238	He	0.038	7.990	960	7.82	0.04	94	

10/5/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	483/250	0.36	5024664	96.27	70	125	
Ge	72	He	66963	0.99	69469	96.39	70	125	
Ge	72	H2	954959	0.40	990900	96.37	70	125	
In	115	He	531985	0.27	553695	96.08	70	125	
Lu	175	He	1773243	1.19	1872725	94.69	70	125	
Th	232	He	4139852	0.58	4140443	99.99	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2.0ppb
Data File Name	037_QC3.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:39:11-07:00
Sample Type	QC3
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.027	2.067	5514	0.76	2	101	
B	10	No Gas	2.158	11.862	1226	7.52	2	108	
B	11	No Gas	2.124	4.157	5931	0.65	2	106	
V	51	He	2.002	4.681	3443	3.92	2	100	
Cr	52	He	1.972	2.650	5572	1.50	2	99	
Cr	53	He	1.975	11.677	730	9.89	2	99	
Mn	55	He	2.071	11.624	1830	12.21	2	104	
Co	59	He	2.015	0.221	9729	0.89	2	101	
Ni	60	He	2.011	7.010	6577	3.26	2	101	
Ni	62	He	1.974	6.049	1001	2.87	-1	-197	
Cu	63	He	2.047	2.325	8511	2.00	2	102	
Cu	65	He	2.051	6.907	4341	6.08	2	103	
Zn	66	He	1.967	16.394	1034	15.60	2	98	
As	75	He	2.088	6.705	479	7.12	2	104	
Se	77	H2	2.031	18.283	1110	6.72	-1	-203	
Se	78	H2	2.010	0.609	1174	0.90	2	100	
Mo	95	He	1.977	7.239	3533	7.51	2	99	
Mo	97	He	1.942	0.671	2326	1.33	2	97	
Mo	98	He	2.004	0.197	6227	1.13	2	100	
Ag	107	He	2.024	2.087	14375	1.55	2	101	
Ag	109	He	2.053	1.958	14614	1.04	2	103	
Cd	111	He	2.051	2.356	1491	2.03	2	103	
Cd	114	He	2.012	1.111	3798	0.51	2	101	
Sb	121	He	2.066	2.336	3208	1.64	2	103	
Sb	123	He	2.030	5.531	2574	4.74	2	102	
Ba	135	He	1.926	13.289	437	14.14	2	96	
Ba	137	He	1.954	0.439	814	0.83	2	98	
Tl	203	He	1.954	1.513	13063	1.70	2	98	
Tl	205	He	2.005	0.947	32569	1.13	2	100	
[Pb]	206	He	2.028	2.680	10525	1.31	2	101	
[Pb]	207	He	1.936	3.026	8936	2.08	2	97	
Pb	208	He	2.000	2.495	42070	0.62	2	100	
U	238	He	2.013	1.144	49576	0.80	2	101	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4813396	2.71	5024664	95.80	70	125	
Ge	72	He	67968	0.82	69469	97.84	70	125	
Ge	72	H2	962525	0.90	990900	97.14	70	125	
In	115	He	535434	1.01	553695	96.70	70	125	
Lu	175	He	1787808	1.96	1872725	95.47	70	125	
Th	232	He	4053116	1.12	4140443	97.89	70	125	

Sample Report

Sample Table

Sample Name	K1510282-001
Data File Name	038SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:42:59-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.096	5.47	265	0.04	
B	10	No Gas	11.345	2.47	5425	0.21	
B	11	No Gas	10.784	1.61	25292	0.04	
V	51	He	7.325	0.63	12422	0.06	
Cr	52	He	6.014	2.13	15397	0.04	
Cr	53	He	5.343	10.96	1772	0.30	
Mn	55	He	172.827	1.46	149385	0.12	
Co	59	He	2.292	2.12	10996	0.02	
Ni	60	He	6.433	3.91	12724	0.05	
Ni	62	He	6.536	0.66	2017	0.32	
Cu	63	He	153.570	0.95	630777	0.02	
Cu	65	He	154.543	0.78	322027	0.05	
Zn	66	He	268.030	1.17	127327	0.21	
As	75	He	1.195	7.14	274	0.44	
Se	77	H2	1.824	6.53	1075	0.17	
Se	78	H2	1.885	1.98	1105	0.17	
Mo	95	He	1.219	1.64	2195	0.06	
Mo	97	He	1.291	4.56	1559	0.08	
Mo	98	He	1.272	1.35	3978	0.03	
Ag	107	He	2.565	2.59	18313	0.01	
Ag	109	He	2.559	2.38	18312	0.01	
Cd	111	He	0.266	8.43	197	0.14	
Cd	114	He	0.686	2.19	1307	0.05	
Sb	121	He	0.275	1.65	443	0.06	
Sb	123	He	0.307	3.55	404	0.08	
Ba	135	He	40.481	1.95	9131	0.44	
Ba	137	He	40.237	1.19	16634	0.24	
Tl	203	He	0.032	27.37	240	0.01	
Tl	205	He	0.032	7.32	576	0.01	
[Pb]	206	He	5.738	3.50	30022	0.02	
[Pb]	207	He	5.440	1.44	25310	0.02	
Pb	208	He	5.547	1.88	117683	0.00	
U	238	He	0.126	2.89	3100	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4799499	0.88	5024664	95.52	70	125	
Ge	72	He	67583	1.29	69469	97.28	70	125	
Ge	72	H2	965923	0.70	990900	97.48	70	125	
In	115	He	538382	0.75	553695	97.23	70	125	
Lu	175	He	1808997	1.76	1872725	96.60	70	125	
Th	232	He	4040856	1.22	4140443	97.59	70	125	

Sample Report

Sample Table

Sample Name	K1510507-001
Data File Name	039SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:46:47-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.082	4.05	3207	0.03	
B	10	No Gas	36.804	3.11	18635	0.20	
B	11	No Gas	36.050	1.68	89337	0.04	
V	51	He	427.502	0.60	719650	0.06	
Cr	52	He	622.114	1.14	1511271	0.04	
Cr	53	He	571.292	0.38	177075	0.32	
~~Mn~~	~~55~~	~~He~~	~~10446.843~~	~~0.86~~	~~8991052~~	~~0.12~~	~~>LDR~~
Co	59	He	30.738	0.12	146343	0.02	
Ni	60	He	97.415	0.91	139398	0.07	
Ni	62	He	95.516	1.57	21846	0.44	
Cu	63	He	100.597	0.46	411477	0.02	
Cu	65	He	100.360	1.06	208252	0.05	
Zn	66	He	1320.540	0.66	624293	0.21	
As	75	He	9.544	0.67	2160	0.44	
Se	77	H2	1.438	6.84	995	0.14	
Se	78	H2	0.296	17.74	177	0.17	
Mo	95	He	5.331	2.38	9382	0.06	
Mo	97	He	5.293	4.87	6236	0.08	
Mo	98	He	5.369	0.86	16456	0.03	
Ag	107	He	0.441	1.82	3106	0.01	
Ag	109	He	0.420	2.22	2970	0.01	
Cd	111	He	1.811	3.30	1299	0.14	
Cd	114	He	1.895	1.27	3532	0.05	
Sb	121	He	2.132	1.71	3270	0.07	
Sb	123	He	2.162	3.61	2706	0.08	
Ba	135	He	339.924	0.52	75274	0.45	
Ba	137	He	350.387	0.37	142156	0.25	
Tl	203	He	0.152	7.05	1057	0.01	
Tl	205	He	0.139	3.69	2341	0.01	
[Pb]	206	He	149.390	1.03	783227	0.02	
[Pb]	207	He	143.657	0.96	669421	0.02	
Pb	208	He	153.119	1.02	3255204	0.00	
U	238	He	2.519	0.90	64792	0.00	

See 1/100 in 10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5240854	1.57	5024664	104.30	70	125	
Ge	72	He	67295	0.76	69469	96.87	70	125	
Ge	72	H2	958403	1.16	990900	96.72	70	125	
In	115	He	528687	1.68	553695	95.48	70	125	
Lu	175	He	1815411	0.78	1872725	96.94	70	125	
Th	232	He	4231960	0.49	4140443	102.21	70	125	

Sample Report

Sample Table

Sample Name	K1510571-001
Data File Name	040SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:50:32-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.053	1.71	6322	0.03	
B	10	No Gas	70.895	2.14	37062	0.19	
B	11	No Gas	68.346	1.13	174837	0.04	
V	51	He	154.928	0.41	273875	0.06	
Cr	52	He	119.215	1.02	304701	0.04	
Cr	53	He	115.297	1.29	37617	0.31	
Mn	55	He	1337.330	0.40	1208515	0.11	
Co	59	He	27.564	0.88	137798	0.02	
Ni	60	He	74.826	1.42	113320	0.07	
Ni	62	He	72.840	2.09	17631	0.41	
Cu	63	He	578.517	2.01	2484304	0.02	
Cu	65	He	556.610	0.48	1212601	0.05	
Zn	66	He	845.583	0.98	419777	0.20	
As	75	He	42.706	3.82	10140	0.42	
Se	77	H2	4.440	0.88	1553	0.29	
Se	78	H2	3.315	5.26	1930	0.17	
Mo	95	He	11.855	0.91	21487	0.06	
Mo	97	He	11.944	3.29	14492	0.08	
Mo	98	He	12.095	1.43	38184	0.03	
Ag	107	He	33.151	1.04	239306	0.01	
Ag	109	He	32.570	1.40	235550	0.01	
Cd	111	He	6.989	2.73	5161	0.14	
Cd	114	He	7.268	0.42	13940	0.05	
Sb	121	He	1.420	1.33	2250	0.06	
Sb	123	He	1.437	2.90	1859	0.08	
Ba	135	He	763.400	1.09	174191	0.44	
Ba	137	He	774.797	0.45	323899	0.24	
Tl	203	He	1.028	0.59	7048	0.01	
Tl	205	He	1.051	2.33	17497	0.01	
[Pb]	206	He	44.905	2.18	237319	0.02	
[Pb]	207	He	42.523	2.29	199753	0.02	
Pb	208	He	43.835	2.07	939408	0.00	
U	238	He	36.098	0.71	963691	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5446318	0.14	5024664	108.39	70	125	
Ge	72	He	70662	0.97	69469	101.72	70	125	
Ge	72	H2	961019	0.50	990900	96.98	70	125	
In	115	He	544802	0.80	553695	98.39	70	125	
Lu	175	He	1829887	1.14	1872725	97.71	70	125	
Th	232	He	4393396	1.39	4140443	106.11	70	125	

All Reference Sample Report

Sample Table

Sample Name	K1510571-002
Data File Name	041_ARF.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:54:19-07:00
Sample Type	AllRef
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.577	1.98	4859	0.03	
B	10	No Gas	54.358	0.59	28489	0.19	
B	11	No Gas	51.587	1.91	132336	0.04	
V	51	He	229.790	0.36	395345	0.06	
Cr	52	He	55.274	0.76	137905	0.04	
Cr	53	He	52.975	1.25	16883	0.31	
Mn	55	He	976.723	0.87	859096	0.11	
Co	59	He	25.687	0.18	124988	0.02	
Ni	60	He	35.877	1.82	54866	0.07	
Ni	62	He	35.446	2.31	8640	0.41	
Cu	63	He	61.360	0.64	256522	0.02	
Cu	65	He	61.322	0.44	130065	0.05	
Zn	66	He	172.622	0.48	83486	0.21	
As	75	He	266.224	0.38	61495	0.43	
Se	77	H2	1.544	8.24	1000	0.15	
Se	78	H2	0.231	19.79	137	0.17	
Mo	95	He	2.099	1.31	3726	0.06	
Mo	97	He	2.075	5.59	2469	0.08	
Mo	98	He	2.048	2.44	6322	0.03	
Ag	107	He	0.303	8.80	2151	0.01	
Ag	109	He	0.306	0.65	2186	0.01	
Cd	111	He	0.276	5.10	201	0.14	
Cd	114	He	0.416	4.23	787	0.05	
Sb	121	He	0.671	3.17	1047	0.06	
Sb	123	He	0.656	9.27	837	0.08	
Ba	135	He	440.977	1.32	98268	0.45	
Ba	137	He	444.297	0.30	181398	0.24	
Tl	203	He	0.900	0.08	6208	0.01	
Tl	205	He	0.913	4.34	15282	0.01	
[Pb]	206	He	17.310	3.37	91969	0.02	
[Pb]	207	He	15.475	2.89	73092	0.02	
Pb	208	He	16.357	3.11	352396	0.00	
U	238	He	7.296	0.51	226220	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5448189	0.28	5024664	108.43	70	125	
Ge	72	He	68773	0.86	69469	99.00	70	125	
Ge	72	H2	944362	0.60	990900	95.30	70	125	
In	115	He	532062	1.40	553695	96.09	70	125	
Lu	175	He	1839601	2.50	1872725	98.23	70	125	
Th	232	He	5101895	1.06	4140443	123.22	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002D
Data File Name	042SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T19:58:06-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.538	3.50	4632	0.03	
B	10	No Gas	53.821	3.55	27562	0.20	
B	11	No Gas	52.826	2.47	132386	0.04	
V	51	He	212.559	0.21	365890	0.06	
Cr	52	He	51.435	0.69	128446	0.04	
Cr	53	He	49.730	1.52	15864	0.31	
Mn	55	He	927.398	0.53	816120	0.11	
Co	59	He	24.305	1.09	118331	0.02	
Ni	60	He	33.126	0.48	50970	0.06	
Ni	62	He	33.255	1.42	8144	0.41	
Cu	63	He	56.719	1.29	237242	0.02	
Cu	65	He	56.607	1.33	120131	0.05	
Zn	66	He	163.189	1.21	78966	0.21	
As	75	He	224.121	0.57	51798	0.43	
Se	77	H2	1.488	3.78	993	0.15	
Se	78	H2	0.234	3.20	139	0.17	
Mo	95	He	1.882	2.38	3314	0.06	
Mo	97	He	1.932	2.39	2280	0.08	
Mo	98	He	1.814	2.57	5557	0.03	
Ag	107	He	0.217	4.02	1532	0.01	
Ag	109	He	0.213	8.25	1515	0.01	
Cd	111	He	0.222	8.85	162	0.14	
Cd	114	He	0.332	3.75	624	0.05	
Sb	121	He	0.630	4.77	976	0.06	
Sb	123	He	0.699	6.27	883	0.08	
Ba	135	He	420.587	0.42	92972	0.45	
Ba	137	He	423.721	0.05	171608	0.25	
Tl	203	He	0.872	4.80	5983	0.01	
Tl	205	He	0.896	1.12	14926	0.01	
[Pb]	206	He	16.047	1.50	84881	0.02	
[Pb]	207	He	14.421	1.55	67813	0.02	
Pb	208	He	15.153	1.20	325040	0.00	
U	238	He	6.627	1.02	202491	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5325450	2.05	5024664	105.99	70	125	
Ge	72	He	68808	0.52	69469	99.05	70	125	
Ge	72	H2	946981	0.88	990900	95.57	70	125	
In	115	He	527776	0.46	553695	95.32	70	125	
Lu	175	He	1830742	1.70	1872725	97.76	70	125	
Th	232	He	5028333	1.62	4140443	121.44	70	125	

Sample Report

Sample Table

Sample Name	K1510571-002L
Data File Name	043SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:01:56-07:00
Sample Type	Sample
Dilution	1
Comment	25
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.349	6.77	994	0.04	
B	10	No Gas	13.305	3.37	6608	0.20	
B	11	No Gas	12.694	1.24	30913	0.04	
V	51	He	45.812	1.51	79158	0.06	
Cr	52	He	11.227	1.11	28719	0.04	
Cr	53	He	10.669	1.02	3505	0.30	
Mn	55	He	196.222	0.74	173288	0.11	
Co	59	He	5.187	2.01	25371	0.02	
Ni	60	He	6.686	1.76	13361	0.05	
Ni	62	He	6.815	5.87	2125	0.32	
Cu	63	He	12.877	1.49	54093	0.02	
Cu	65	He	13.002	1.57	27719	0.05	
Zn	66	He	35.624	0.30	17373	0.21	
As	75	He	53.529	0.97	12416	0.43	
Se	77	H2	0.057	232.67	749	0.01	
Se	78	H2	0.050	10.21	35	0.14	
Mo	95	He	0.389	9.16	710	0.05	
Mo	97	He	0.426	4.49	523	0.08	
Mo	98	He	0.383	10.30	1207	0.03	
Ag	107	He	0.066	3.98	486	0.01	
Ag	109	He	0.062	7.21	468	0.01	
Cd	111	He	0.059	4.02	45	0.13	
Cd	114	He	0.079	7.36	159	0.05	
Sb	121	He	0.135	6.04	226	0.06	
Sb	123	He	0.133	15.44	184	0.07	
Ba	135	He	87.666	1.44	19808	0.44	
Ba	137	He	89.410	0.48	37015	0.24	
Tl	203	He	0.186	3.08	1285	0.01	
Tl	205	He	0.195	3.28	3264	0.01	
[Pb]	206	He	3.670	3.10	19289	0.02	
[Pb]	207	He	3.270	3.63	15284	0.02	
Pb	208	He	3.462	2.55	73788	0.00	
U	238	He	1.743	1.14	45857	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5018177	1.31	5024664	99.87	70	125	
Ge	72	He	69044	0.44	69469	99.39	70	125	
Ge	72	H2	968519	0.43	990900	97.74	70	125	
In	115	He	539361	0.52	553695	97.41	70	125	
Lu	175	He	1815558	2.44	1872725	96.95	70	125	
Th	232	He	4328839	1.45	4140443	104.55	70	125	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1510571-002A
Data File Name	044_PDS.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:05:44-07:00
Sample Type	PDS
Dilution	1
Comment	5 +50ppb +10ppb Ag
QC Ref File Name	041_ARF.d
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag	
Be	9	No Gas	47.370	1.530	141607	0.63	50	92		
B	10	No Gas	99.832	2.073	50587	0.72	50	91		
B	11	No Gas	96.902	1.221	240268	0.20	50	91		
V	51	He	276.523	1.863	466594	1.25	50	93		NA
Cr	52	He	103.498	1.776	252624	1.20	50	96		
Cr	53	He	99.750	1.201	31085	1.58	50	94		
Mn	55	He	1003.280	0.939	865517	0.73	50	53	Flag	NA
Co	59	He	73.135	0.607	348964	0.40	50	95		
Ni	60	He	82.367	1.502	118709	0.80	50	93		
Ni	62	He	81.355	1.579	18732	0.70	50	92		
Cu	63	He	106.835	1.382	438037	1.30	50	91		
Cu	65	He	107.131	1.343	222829	0.52	50	92		
Zn	66	He	215.238	1.178	102075	0.36	50	85		
As	75	He	313.566	0.960	71042	0.69	50	95		NA
Se	77	H2	52.721	1.050	10094	2.36	50	102		
Se	78	H2	50.566	0.993	28279	1.62	50	101		
Mo	95	He	52.110	0.648	90918	0.73	50	100		
Mo	97	He	51.825	1.220	60515	1.23	50	99		
Mo	98	He	52.981	0.869	161057	0.73	50	102		
Ag	107	He	9.927	0.959	69027	0.91	10	96		
Ag	109	He	10.055	1.035	70056	0.91	10	97		
Cd	111	He	49.062	1.066	34880	0.96	50	98		
Cd	114	He	49.548	0.521	91470	0.47	50	98		
Sb	121	He	51.068	1.361	77339	1.35	50	101		
Sb	123	He	51.542	1.154	63707	1.07	50	102		
Ba	135	He	479.724	0.646	105419	0.53	50	77	Flag	NA
Ba	137	He	483.798	0.299	194781	0.30	50	79	Flag	
Tl	203	He	46.871	0.540	318628	0.13	50	92		
Tl	205	He	47.710	0.805	788609	0.43	50	94		
[Pb]	206	He	63.560	0.432	334440	0.28	50	92		
[Pb]	207	He	61.675	0.108	288441	0.34	50	92		
Pb	208	He	62.441	0.357	1332245	0.15	50	92		
U	238	He	46.741	1.229	1443993	0.46	50	79	Flag	NR

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5291228	1.39	5024664	105.31	70	125	
Ge	72	He	67457	0.83	69469	97.10	70	125	
Ge	72	H2	925715	1.98	990900	93.42	70	125	
In	115	He	524663	0.15	553695	94.76	70	125	
Lu	175	He	1821739	0.41	1872725	97.28	70	125	
Th	232	He	5084444	1.46	4140443	122.80	70	125	

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1510571-002S
Data File Name	045_Spk.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:09:33-07:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	041_ARF.d
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	20.853	0.449	61095	0.77	20	96	
B	10	No Gas	256.222	0.507	126844	0.99	200	101	
B	11	No Gas	249.476	0.974	604198	0.82	200	99	
V	51	He	444.230	3.600	738639	2.71	200	107	
Cr	52	He	137.223	3.160	329830	2.09	80	102	
Cr	53	He	131.963	2.243	40489	1.60	80	99	
Mn	55	He	1151.599	2.051	979035	1.05	200	87	
Co	59	He	225.952	1.904	1062397	0.88	200	100	
Ni	60	He	230.168	2.398	320330	1.34	200	97	
Ni	62	He	226.865	1.456	50509	0.57	200	96	
Cu	63	He	154.722	1.819	625145	0.75	100	93	
Cu	65	He	154.203	0.238	316109	0.84	100	93	
Zn	66	He	360.010	0.909	168208	0.40	200	94	
As	75	He	467.839	0.802	104474	1.82	200	101	
Se	77	H2	207.958	2.104	37621	1.33	200	103	
Se	78	H2	205.662	0.800	114662	0.50	200	103	
Mo	95	He	205.310	2.634	351369	2.57	200	102	
Mo	97	He	204.729	2.387	234486	2.41	200	101	
Mo	98	He	209.440	1.623	624557	1.58	200	104	
Ag	107	He	20.531	1.411	140018	0.83	20	101	
Ag	109	He	20.491	1.077	140024	0.67	20	101	
Cd	111	He	20.873	1.921	14558	1.42	20	103	
Cd	114	He	20.681	0.379	37458	0.21	20	101	
Sb	121	He	54.955	1.413	81641	1.19	200	27	Flag
Sb	123	He	55.025	1.210	66720	1.09	200	27	Flag
Ba	135	He	844.445	0.644	182037	0.34	400	101	
Ba	137	He	853.779	1.142	337198	0.98	400	102	
Tl	203	He	40.080	1.720	266030	0.27	40	98	
Tl	205	He	40.810	2.058	658600	0.17	40	100	
[Pb]	206	He	208.565	2.256	1071294	0.41	200	96	
[Pb]	207	He	212.797	2.169	971529	1.03	200	99	
Pb	208	He	220.352	1.594	4589892	0.34	200	102	
U	238	He	6.342	0.732	189938	1.44	200	0	Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5184941	1.20	5024664	103.19	70	125	
Ge	72	He	66484	1.08	69469	95.70	70	125	
Ge	72	H2	922965	1.02	990900	93.14	70	125	
In	115	He	514705	0.58	553695	92.96	70	125	
Lu	175	He	1779055	1.89	1872725	95.00	70	125	
Th	232	He	4928015	1.35	4140443	119.02	70	125	

Sample Report

Sample Table

Sample Name	K1510571-003
Data File Name	046SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:13:20-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.995	0.83	5980	0.03	
B	10	No Gas	74.382	2.53	37839	0.20	
B	11	No Gas	72.052	0.78	179371	0.04	
V	51	He	151.737	1.17	252642	0.06	
Cr	52	He	79.973	0.36	192774	0.04	
Cr	53	He	76.532	1.17	23555	0.32	
Mn	55	He	1424.150	0.38	1212207	0.12	
Co	59	He	31.154	0.76	146701	0.02	
Ni	60	He	58.228	0.80	83878	0.07	
Ni	62	He	57.094	2.04	13134	0.43	
Cu	63	He	79.198	0.39	320406	0.02	
Cu	65	He	78.415	1.19	160940	0.05	
Zn	66	He	257.263	0.96	120370	0.21	
As	75	He	28.240	1.55	6315	0.45	
Se	77	H2	2.019	7.23	1064	0.19	
Se	78	H2	0.659	10.51	374	0.18	
Mo	95	He	3.522	0.91	6119	0.06	
Mo	97	He	3.714	2.89	4322	0.09	
Mo	98	He	3.655	4.28	11053	0.03	
Ag	107	He	2.334	3.58	16139	0.01	
Ag	109	He	2.398	2.92	16624	0.01	
Cd	111	He	1.100	1.66	779	0.14	
Cd	114	He	1.152	0.26	2121	0.05	
Sb	121	He	0.870	5.79	1326	0.07	
Sb	123	He	0.888	6.38	1104	0.08	
Ba	135	He	620.882	0.30	135611	0.46	
Ba	137	He	624.969	0.49	250092	0.25	
Tl	203	He	1.125	3.36	7693	0.01	
Tl	205	He	1.153	1.90	19151	0.01	
[Pb]	206	He	22.353	2.38	117909	0.02	
[Pb]	207	He	20.165	2.24	94553	0.02	
Pb	208	He	21.153	1.97	452462	0.00	
U	238	He	10.792	0.56	324425	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5302322	0.74	5024664	105.53	70	125	
Ge	72	He	66557	0.83	69469	95.81	70	125	
Ge	72	H2	924979	0.67	990900	93.35	70	125	
In	115	He	521484	0.38	553695	94.18	70	125	
Lu	175	He	1826205	1.78	1872725	97.52	70	125	
Th	232	He	4946604	0.34	4140443	119.47	70	125	

Sample Report

Sample Table

Sample Name	K1510571-004
Data File Name	047SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:17:07-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.016	0.21	6054	0.03	
B	10	No Gas	91.724	1.98	46674	0.20	
B	11	No Gas	87.710	1.94	218398	0.04	
V	51	He	221.964	0.74	376846	0.06	
Cr	52	He	77.821	1.43	191295	0.04	
Cr	53	He	75.547	2.81	23710	0.32	
Mn	55	He	1401.152	1.85	1216059	0.12	
Co	59	He	28.966	1.10	139078	0.02	
Ni	60	He	52.536	0.88	77537	0.07	
Ni	62	He	51.766	0.43	12195	0.42	
Cu	63	He	91.683	0.32	378229	0.02	
Cu	65	He	90.814	0.66	190056	0.05	
Zn	66	He	249.905	1.30	119232	0.21	
As	75	He	116.588	0.94	26578	0.44	
Se	77	H2	1.869	2.84	1040	0.18	
Se	78	H2	0.509	1.59	290	0.18	
Mo	95	He	3.078	1.57	5445	0.06	
Mo	97	He	2.996	2.18	3550	0.08	
Mo	98	He	3.029	1.50	9328	0.03	
Ag	107	He	2.042	0.95	14380	0.01	
Ag	109	He	1.988	0.64	14034	0.01	
Cd	111	He	0.793	2.58	573	0.14	
Cd	114	He	0.938	1.73	1761	0.05	
Sb	121	He	0.853	5.77	1323	0.06	
Sb	123	He	0.924	1.35	1170	0.08	
Ba	135	He	513.052	2.13	114070	0.45	
Ba	137	He	517.228	0.66	210698	0.25	
Tl	203	He	1.044	2.34	7124	0.01	
Tl	205	He	1.070	2.89	17734	0.01	
[Pb]	206	He	22.262	0.72	117231	0.02	
[Pb]	207	He	19.967	2.36	93450	0.02	
Pb	208	He	21.128	0.95	451139	0.00	
U	238	He	15.153	1.66	455315	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5310835	1.20	5024664	105.70	70	125	
Ge	72	He	67868	0.71	69469	97.70	70	125	
Ge	72	H2	927567	0.21	990900	93.61	70	125	
In	115	He	530867	0.43	553695	95.88	70	125	
Lu	175	He	1822651	1.10	1872725	97.33	70	125	
Th	232	He	4945197	1.21	4140443	119.44	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	048_CCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:20:54-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	24.874	1.507	69686	1.21	25	99	
B	10	No Gas	29.471	2.410	14168	2.21	25	118	
B	11	No Gas	29.218	1.524	68733	1.44	25	117	
V	51	He	25.299	1.149	43476	1.03	25	101	
Cr	52	He	24.920	2.158	62465	2.19	25	100	
Cr	53	He	24.622	3.699	7893	3.76	25	98	
Mn	55	He	25.372	0.864	22301	0.79	25	101	
Co	59	He	25.099	0.312	121892	0.26	25	100	
Ni	60	He	23.617	0.982	37337	0.76	25	94	
Ni	62	He	24.958	4.102	6238	3.72	25	100	
Cu	63	He	24.952	0.028	104147	0.17	25	100	
Cu	65	He	25.367	0.978	53725	0.87	25	101	
Zn	66	He	25.252	1.675	12271	1.75	25	101	
As	75	He	25.669	1.271	5920	1.18	25	103	
Se	77	H2	25.374	1.039	5438	1.77	25	101	
Se	78	H2	25.136	0.299	14636	0.99	25	101	
Mo	95	He	24.782	0.525	44857	0.87	25	99	
Mo	97	He	24.570	1.173	29766	1.66	25	98	
Mo	98	He	25.469	1.684	80310	1.17	25	102	
Ag	107	He	25.314	0.611	182546	0.37	25	101	
Ag	109	He	25.321	1.296	182937	0.80	25	101	
Cd	111	He	25.205	1.615	18588	1.12	25	101	
Cd	114	He	25.129	0.367	48122	0.35	25	101	
Sb	121	He	25.146	0.601	39509	0.18	25	101	
Sb	123	He	25.549	0.454	32764	0.95	25	102	
Ba	135	He	25.360	4.436	5784	4.29	25	101	
Ba	137	He	25.596	2.295	10700	2.32	25	102	
Tl	203	He	24.181	1.901	167536	0.70	25	97	
Tl	205	He	24.620	1.609	414758	0.42	25	98	
[Pb]	206	He	24.742	1.185	132722	0.92	25	99	
[Pb]	207	He	24.680	1.283	117668	0.09	25	99	
Pb	208	He	24.655	1.252	536252	0.02	25	99	
U	238	He	24.688	0.795	626953	0.45	25	99	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4958349	1.17	5024664	98.68	70	125	
Ge	72	He	68640	0.14	69469	98.81	70	125	
Ge	72	H2	963591	0.90	990900	97.24	70	125	
In	115	He	544216	0.51	553695	98.29	70	125	
Lu	175	He	1856824	1.27	1872725	99.15	70	125	
Th	232	He	4179082	0.57	4140443	100.93	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	049_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:24:44-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.003	73.2	13	48.2	0.04	
B	10	No Gas	3.281	3.6	1790	3.3	10	
B	11	No Gas	3.241	2.8	8673	3.0	10	
V	51	He	0.021	13.1	74	6.8	0.4	
Cr	52	He	0.019	30.9	786	1.8	0.4	
Cr	53	He	-0.075	-90.1	89	24.4	0.4	
Mn	55	He	0.096	78.6	113	58.7	0.1	
Co	59	He	0.009	17.5	83	8.0	0.04	
Ni	60	He	-1.109	-3.8	2195	2.3	0.4	
Ni	62	He	-1.000	-34.7	332	23.1	0.4	
Cu	63	He	0.023	22.6	153	13.6	0.2	
Cu	65	He	0.012	106.3	70	40.7	0.2	
Zn	66	He	0.038	78.7	113	13.5	1	
As	75	He	0.018	102.9	7	62.4	0.4	
Se	77	H2	-0.129	-121.3	706	4.2	20	
Se	78	H2	0.012	29.3	13	16.4	1	
Mo	95	He	0.001	232.8	14	35.3	0.1	
Mo	97	He	0.002	377.5	14	58.1	0.1	
Mo	98	He	0.002	120.1	17	40.0	0.1	
Ag	107	He	0.002	114.4	34	59.1	0.04	
Ag	109	He	-0.001	-178.4	20	50.0	0.04	
Cd	111	He	0.002	132.5	4	45.8	0.04	
Cd	114	He	0.002	52.8	12	15.1	0.04	
Sb	121	He	0.026	26.2	59	18.4	0.2	
Sb	123	He	0.023	51.0	44	33.6	0.1	
Ba	135	He	0.062	116.1	19	88.8	0.1	
Ba	137	He	0.043	23.7	30	14.7	0.1	
Tl	203	He	0.021	21.9	176	19.0	0.04	
Tl	205	He	0.015	12.4	302	11.0	0.04	
[Pb]	206	He	0.010	13.0	111	6.2	0.1	
[Pb]	207	He	0.012	20.1	111	9.6	0.1	
Pb	208	He	0.009	36.5	418	17.1	0.1	
U	238	He	0.003	12.6	94	11.3	0.04	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4945674	0.78	5024664	98.43	70	125	
Ge	72	He	68172	0.99	69469	98.13	70	125	
Ge	72	H2	958104	0.22	990900	96.69	70	125	
In	115	He	554779	0.21	553695	100.20	70	125	
Lu	175	He	1849677	0.65	1872725	98.77	70	125	
Th	232	He	4218131	0.70	4140443	101.88	70	125	

Sample Report

Sample Table

Sample Name	K1510571-005
Data File Name	050SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:28:31-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.685	3.19	4944	0.03	
B	10	No Gas	53.796	1.75	26850	0.20	
B	11	No Gas	51.794	2.69	126504	0.04	
V	51	He	135.691	4.43	228583	0.06	
Cr	52	He	111.180	2.89	270895	0.04	
Cr	53	He	107.980	2.89	33585	0.32	
Mn	55	He	1222.996	2.30	1053425	0.12	
Co	59	He	24.316	2.67	115872	0.02	
Ni	60	He	67.477	1.74	97781	0.07	
Ni	62	He	67.467	2.11	15607	0.43	
Cu	63	He	539.650	2.04	2209040	0.02	
Cu	65	He	505.655	1.32	1050127	0.05	
Zn	66	He	828.173	1.03	391956	0.21	
As	75	He	37.212	1.72	8423	0.44	
Se	77	H2	4.780	3.93	1570	0.30	
Se	78	H2	3.799	3.57	2148	0.18	
Mo	95	He	8.234	3.89	14711	0.06	
Mo	97	He	8.084	3.16	9671	0.08	
Mo	98	He	8.288	2.26	25793	0.03	
Ag	107	He	43.655	0.54	310570	0.01	
Ag	109	He	43.578	0.87	310596	0.01	
Cd	111	He	10.178	0.17	7407	0.14	
Cd	114	He	10.425	0.21	19701	0.05	
Sb	121	He	1.381	4.20	2156	0.06	
Sb	123	He	1.339	4.61	1707	0.08	
Ba	135	He	759.688	0.48	170828	0.44	
Ba	137	He	769.409	0.89	316989	0.24	
Tl	203	He	0.910	1.99	6308	0.01	
Tl	205	He	0.943	2.26	15875	0.01	
[Pb]	206	He	46.498	2.20	248383	0.02	
[Pb]	207	He	43.475	3.71	206364	0.02	
Pb	208	He	45.000	3.26	974554	0.00	
U	238	He	23.128	1.36	615466	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5189069	2.00	5024664	103.27	70	125	
Ge	72	He	67369	1.81	69469	96.98	70	125	
Ge	72	H2	933815	0.77	990900	94.24	70	125	
In	115	He	536896	0.67	553695	96.97	70	125	
Lu	175	He	1849797	2.28	1872725	98.78	70	125	
Th	232	He	4380180	3.17	4140443	105.79	70	125	

Sample Report

Sample Table

Sample Name	K1510571-006
Data File Name	051SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:32:20-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.680	4.96	4993	0.03	
B	10	No Gas	98.883	3.04	49773	0.20	
B	11	No Gas	93.452	1.00	230219	0.04	
V	51	He	171.242	1.58	285554	0.06	
Cr	52	He	65.305	0.49	157796	0.04	
Cr	53	He	63.110	2.59	19472	0.32	
Mn	55	He	1651.117	1.94	1407556	0.12	
Co	59	He	29.201	1.96	137707	0.02	
Ni	60	He	47.916	1.93	69779	0.07	
Ni	62	He	48.084	3.56	11163	0.43	
Cu	63	He	55.453	1.00	224712	0.02	
Cu	65	He	55.277	1.49	113651	0.05	
Zn	66	He	204.038	0.76	95637	0.21	
As	75	He	71.343	0.34	15975	0.45	
Se	77	H2	1.447	1.40	953	0.15	
Se	78	H2	0.316	5.98	180	0.18	
Mo	95	He	4.811	0.62	8454	0.06	
Mo	97	He	4.893	2.20	5757	0.08	
Mo	98	He	5.060	2.90	15479	0.03	
Ag	107	He	0.307	5.10	2162	0.01	
Ag	109	He	0.301	4.65	2133	0.01	
Cd	111	He	0.491	4.11	353	0.14	
Cd	114	He	0.609	1.13	1138	0.05	
Sb	121	He	0.555	2.67	862	0.06	
Sb	123	He	0.579	5.55	733	0.08	
Ba	135	He	489.728	1.06	108242	0.45	
Ba	137	He	501.874	1.55	203221	0.25	
Tl	203	He	0.922	4.95	6344	0.01	
Tl	205	He	0.947	0.96	15819	0.01	
[Pb]	206	He	17.685	2.66	93808	0.02	
[Pb]	207	He	16.088	2.03	75861	0.02	
Pb	208	He	16.799	2.04	361347	0.00	
U	238	He	10.254	1.11	306049	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5255981	1.46	5024664	104.60	70	125	
Ge	72	He	66662	1.11	69469	95.96	70	125	
Ge	72	H2	916379	1.11	990900	92.48	70	125	
In	115	He	527736	1.04	553695	95.31	70	125	
Lu	175	He	1836092	1.43	1872725	98.04	70	125	
Th	232	He	4911801	1.27	4140443	118.63	70	125	

Sample Report

Sample Table

Sample Name	K1510571-007
Data File Name	052SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:36:09-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.545	1.49	4427	0.03	
B	10	No Gas	50.985	2.08	24854	0.21	
B	11	No Gas	49.507	0.80	118112	0.04	
V	51	He	127.181	1.12	209741	0.06	
Cr	52	He	95.540	1.26	227953	0.04	
Cr	53	He	92.689	2.44	28232	0.33	
Mn	55	He	1141.333	1.02	962179	0.12	
Co	59	He	23.013	1.29	107334	0.02	
Ni	60	He	60.169	0.62	85726	0.07	
Ni	62	He	59.817	0.85	13603	0.44	
Cu	63	He	388.296	1.87	1555608	0.02	
Cu	65	He	368.957	0.24	749876	0.05	
Zn	66	He	614.482	1.09	284611	0.22	
As	75	He	30.379	2.44	6728	0.45	
Se	77	H2	4.055	1.39	1414	0.29	
Se	78	H2	2.875	3.42	1597	0.18	
Mo	95	He	6.874	2.37	12189	0.06	
Mo	97	He	6.785	0.60	8055	0.08	
Mo	98	He	6.958	2.03	21486	0.03	
Ag	107	He	31.460	0.52	222086	0.01	
Ag	109	He	31.621	0.89	223646	0.01	
Cd	111	He	6.523	1.25	4711	0.14	
Cd	114	He	6.945	1.00	13025	0.05	
Sb	121	He	1.051	9.27	1632	0.06	
Sb	123	He	1.027	2.68	1303	0.08	
Ba	135	He	602.919	1.01	134539	0.45	
Ba	137	He	616.680	1.15	252103	0.24	
Tl	203	He	0.856	0.66	6027	0.01	
Tl	205	He	0.837	1.20	14304	0.01	
[Pb]	206	He	38.635	1.59	209534	0.02	
[Pb]	207	He	36.001	2.35	173532	0.02	
Pb	208	He	37.144	1.87	816818	0.00	
U	238	He	19.519	1.88	514232	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5064927	0.85	5024664	100.80	70	125	
Ge	72	He	65920	0.48	69469	94.89	70	125	
Ge	72	H2	917073	0.90	990900	92.55	70	125	
In	115	He	532763	0.38	553695	96.22	70	125	
Lu	175	He	1877662	1.10	1872725	100.26	70	125	
Th	232	He	4335834	0.95	4140443	104.72	70	125	

Sample Report

Sample Table

Sample Name	K1510571-008
Data File Name	053SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:39:55-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.083	1.39	6266	0.03	
B	10	No Gas	118.716	1.58	60433	0.20	
B	11	No Gas	114.697	1.99	285670	0.04	
V	51	He	206.711	1.05	346654	0.06	
Cr	52	He	83.734	0.50	203262	0.04	
Cr	53	He	79.524	2.01	24653	0.32	
Mn	55	He	1966.499	2.91	1685659	0.12	
Co	59	He	32.220	1.24	152795	0.02	
Ni	60	He	59.714	1.30	86540	0.07	
Ni	62	He	58.810	4.31	13605	0.43	
Cu	63	He	88.480	0.51	360532	0.02	
Cu	65	He	88.539	0.72	183025	0.05	
Zn	66	He	272.064	1.12	128195	0.21	
As	75	He	78.460	1.90	17666	0.44	
Se	77	H2	2.104	6.60	1062	0.20	
Se	78	H2	0.460	12.79	258	0.18	
Mo	95	He	3.090	4.18	5436	0.06	
Mo	97	He	3.258	5.06	3840	0.08	
Mo	98	He	3.195	2.65	9782	0.03	
Ag	107	He	2.063	2.07	14442	0.01	
Ag	109	He	2.036	3.45	14290	0.01	
Cd	111	He	1.237	2.10	887	0.14	
Cd	114	He	1.316	3.12	2454	0.05	
Sb	121	He	0.717	4.30	1108	0.06	
Sb	123	He	0.741	3.01	936	0.08	
Ba	135	He	600.784	1.22	132840	0.45	
Ba	137	He	612.276	1.33	248023	0.25	
Tl	203	He	1.145	1.10	7991	0.01	
Tl	205	He	1.140	2.49	19320	0.01	
[Pb]	206	He	22.487	1.35	121100	0.02	
[Pb]	207	He	20.536	1.59	98300	0.02	
Pb	208	He	21.494	1.82	469324	0.00	
U	238	He	13.176	0.87	395824	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5319458	0.92	5024664	105.87	70	125	
Ge	72	He	67039	1.46	69469	96.50	70	125	
Ge	72	H2	910248	0.25	990900	91.86	70	125	
In	115	He	527934	0.83	553695	95.35	70	125	
Lu	175	He	1864079	1.36	1872725	99.54	70	125	
Th	232	He	4943811	0.61	4140443	119.40	70	125	

Sample Report

Sample Table

Sample Name	K1510571-009
Data File Name	054SMPL.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:43:42-07:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.840	1.44	5339	0.03	
B	10	No Gas	73.638	1.48	36267	0.20	
B	11	No Gas	70.084	0.65	168909	0.04	
V	51	He	196.446	0.85	325666	0.06	
Cr	52	He	88.233	0.52	211691	0.04	
Cr	53	He	83.715	0.78	25646	0.33	
Mn	55	He	1602.226	2.18	1357820	0.12	
Co	59	He	30.572	1.25	143328	0.02	
Ni	60	He	63.403	0.60	90615	0.07	
Ni	62	He	63.076	1.08	14391	0.44	
Cu	63	He	315.877	1.26	1272199	0.02	
Cu	65	He	315.124	1.82	643819	0.05	
Zn	66	He	538.181	0.87	250604	0.21	
As	75	He	74.453	1.06	16573	0.45	
Se	77	H2	3.335	2.70	1285	0.26	
Se	78	H2	2.157	5.77	1198	0.18	
Mo	95	He	3.248	1.61	5787	0.06	
Mo	97	He	3.084	3.78	3682	0.08	
Mo	98	He	3.300	2.31	10234	0.03	
Ag	107	He	21.074	0.99	149338	0.01	
Ag	109	He	20.963	0.85	148843	0.01	
Cd	111	He	4.604	2.24	3339	0.14	
Cd	114	He	4.882	2.03	9194	0.05	
Sb	121	He	1.057	1.42	1648	0.06	
Sb	123	He	0.972	7.55	1239	0.08	
Ba	135	He	701.711	0.75	157173	0.45	
Ba	137	He	712.142	0.15	292244	0.24	
Tl	203	He	1.079	2.63	7507	0.01	
Tl	205	He	1.073	1.52	18133	0.01	
[Pb]	206	He	33.847	1.10	181630	0.02	
[Pb]	207	He	31.420	0.76	149865	0.02	
Pb	208	He	32.479	0.65	706706	0.00	
U	238	He	16.014	1.38	449174	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5132156	0.67	5024664	102.14	70	125	
Ge	72	He	66269	0.62	69469	95.39	70	125	
Ge	72	H2	915285	0.66	990900	92.37	70	125	
In	115	He	534792	0.29	553695	96.59	70	125	
Lu	175	He	1857581	0.29	1872725	99.19	70	125	
Th	232	He	4615973	1.46	4140443	111.49	70	125	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	055_CCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:47:30-07:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.791	2.322	68862	1.04	25	103	
B	10	No Gas	29.786	2.605	13644	1.30	25	119	
B	11	No Gas	29.257	2.744	65589	1.71	25	117	
V	51	He	25.527	1.743	43329	1.51	25	102	
Cr	52	He	25.065	1.007	62054	0.99	25	100	
Cr	53	He	23.896	2.549	7569	2.56	25	96	
Mn	55	He	26.418	2.326	22936	2.51	25	106	
Co	59	He	25.254	1.148	121143	1.16	25	101	
Ni	60	He	23.443	1.204	36634	0.97	25	94	
Ni	62	He	24.043	3.837	5956	3.30	25	96	
Cu	63	He	25.426	0.806	104826	0.91	25	102	
Cu	65	He	25.320	0.791	52970	0.97	25	101	
Zn	66	He	25.815	2.053	12389	2.37	25	103	
As	75	He	25.245	1.339	5751	1.05	25	101	
Se	77	H2	25.617	3.293	5413	2.16	25	102	
Se	78	H2	24.658	3.022	14176	2.30	25	99	
Mo	95	He	24.565	1.428	44588	0.75	25	98	
Mo	97	He	24.731	0.669	30047	0.62	25	99	
Mo	98	He	25.265	1.510	79897	0.88	25	101	
Ag	107	He	25.080	0.926	181374	0.26	25	100	
Ag	109	He	25.179	1.407	182435	0.82	25	101	
Cd	111	He	25.052	1.240	18528	0.57	25	100	
Cd	114	He	25.244	1.222	48479	0.47	25	101	
Sb	121	He	25.385	1.160	39999	1.37	25	102	
Sb	123	He	25.309	0.785	32549	0.28	25	101	
Ba	135	He	25.022	4.838	5723	4.32	25	100	
Ba	137	He	25.469	1.192	10677	0.67	25	102	
Tl	203	He	24.051	0.304	167271	0.93	25	96	
Tl	205	He	24.545	0.889	415035	0.34	25	98	
[Pb]	206	He	24.809	0.790	133566	0.10	25	99	
[Pb]	207	He	24.647	0.617	117946	0.25	25	99	
Pb	208	He	24.633	1.045	537754	0.29	25	99	
U	238	He	24.402	1.482	627977	0.77	25	98	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4726134	1.34	5024664	94.06	70	125	
Ge	72	He	67799	0.34	69469	97.60	70	125	
Ge	72	H2	951509	0.81	990900	96.02	70	125	
In	115	He	545792	0.76	553695	98.57	70	125	
Lu	175	He	1863561	0.86	1872725	99.51	70	125	
Th	232	He	4235205	0.71	4140443	102.29	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	056_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:51:19-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.004	22.1	16	16.5	0.04	
B	10	No Gas	3.210	2.3	1739	1.3	10	
B	11	No Gas	2.984	7.7	7997	5.7	10	
V	51	He	0.029	65.7	89	37.6	0.4	
Cr	52	He	0.012	58.4	770	1.3	0.4	
Cr	53	He	-0.037	-245.1	101	28.0	0.4	
Mn	55	He	0.118	96.0	133	75.5	0.1	CCB Failed
Co	59	He	0.003	156.3	53	37.5	0.04	
Ni	60	He	-1.361	-5.3	1842	5.6	0.4	
Ni	62	He	-1.239	-1.4	279	0.7	0.4	
Cu	63	He	0.044	18.7	240	14.1	0.2	
Cu	65	He	0.032	71.9	110	42.4	0.2	
Zn	66	He	-0.010	-643.1	90	32.9	1	
As	75	He	0.025	69.9	8	48.5	0.4	
Se	77	H2	-0.070	-163.6	731	2.3	20	
Se	78	H2	0.005	43.3	8	13.9	1	
Mo	95	He	-0.001	-954.9	11	96.4	0.1	
Mo	97	He	-0.005	-29.6	6	34.7	0.1	
Mo	98	He	0.003	202.6	21	96.5	0.1	
Ag	107	He	0.004	61.3	49	41.1	0.04	
Ag	109	He	0.005	40.4	59	22.9	0.04	
Cd	111	He	0.001	172.9	4	49.5	0.04	
Cd	114	He	0.001	51.4	9	6.2	0.04	
Sb	121	He	0.022	21.0	52	13.3	0.2	
Sb	123	He	0.020	31.6	41	20.8	0.1	
Ba	135	He	0.105	68.4	29	58.1	0.1	CCB Failed
Ba	137	He	0.055	13.2	35	8.2	0.1	
Tl	203	He	0.017	4.5	147	2.3	0.04	
Tl	205	He	0.014	29.8	286	24.0	0.04	
[Pb]	206	He	0.010	133.9	113	64.5	0.1	
[Pb]	207	He	0.005	54.7	80	15.0	0.1	
Pb	208	He	0.008	42.9	388	19.6	0.1	
U	238	He	0.002	17.1	72	14.1	0.04	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4896479	0.94	5024664	97.45	70	125	
Ge	72	He	68267	1.13	69469	98.27	70	125	
Ge	72	H2	977115	0.96	990900	98.61	70	125	
In	115	He	552642	0.83	553695	99.81	70	125	
Lu	175	He	1884835	1.35	1872725	100.65	70	125	
Th	232	He	4164727	1.10	4140443	100.59	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	057_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:55:09-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.002	100.7	8	52.7	0.04	
B	10	No Gas	3.274	8.0	1465	6.1	10	
B	11	No Gas	2.913	2.5	6491	2.8	10	
V	51	He	0.020	77.8	61	36.3	0.4	
Cr	52	He	0.047	93.1	711	8.6	0.4	
Cr	53	He	0.020	260.4	99	13.6	0.4	
Mn	55	He	0.110	51.0	103	36.6	0.1	CCB Failed
Co	59	He	-0.001	-32.2	30	0.0	0.04	
Ni	60	He	-1.008	-3.5	1948	6.0	0.4	
Ni	62	He	-1.099	-18.7	258	13.7	0.4	
Cu	63	He	0.034	17.6	163	12.7	0.2	
Cu	65	He	0.039	22.9	104	17.6	0.2	
Zn	66	He	-0.042	-92.0	62	24.2	1	
As	75	He	0.011	35.0	4	13.3	0.4	
Se	77	H2	0.237	120.1	773	7.7	20	
Se	78	H2	0.010	29.5	11	15.7	1	
Mo	95	He	-0.003	-103.6	6	91.6	0.1	
Mo	97	He	-0.003	-8.4	7	0.0	0.1	
Mo	98	He	0.001	270.1	11	45.8	0.1	
Ag	107	He	0.002	95.8	24	43.8	0.04	
Ag	109	He	-0.001	-133.1	17	34.6	0.04	
Cd	111	He	-0.001	-98.4	2	33.3	0.04	
Cd	114	He	0.000	-1865.4	7	54.9	0.04	
Sb	121	He	0.011	26.3	29	8.8	0.2	
Sb	123	He	0.015	93.1	29	51.7	0.1	
Ba	135	He	0.044	17.0	12	15.7	0.1	
Ba	137	He	0.029	43.4	20	25.0	0.1	
Tl	203	He	0.005	20.0	46	8.5	0.04	
Tl	205	He	0.007	37.1	134	25.1	0.04	
[Pb]	206	He	0.004	119.4	61	27.5	0.1	
[Pb]	207	He	0.006	62.2	64	19.6	0.1	
Pb	208	He	0.008	37.5	306	12.6	0.1	
U	238	He	0.002	17.0	42	16.4	0.04	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4055231	1.96	5024664	80.71	70	125	
Ge	72	He	56799	3.95	69469	81.76	70	125	
Ge	72	H2	956359	0.98	990900	96.51	70	125	
In	115	He	461537	4.29	553695	83.36	70	125	
Lu	175	He	1440965	5.10	1872725	76.94	70	125	
Th	232	He	3512673	4.38	4140443	84.84	70	125	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	058_CCB.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T20:58:57-07:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.002	60.2	9	29.4	0.04	
B	10	No Gas	2.042	5.2	1214	3.7	10	
B	11	No Gas	1.821	4.6	5439	3.9	10	
V	51	He	0.019	24.7	72	9.6	0.4	
Cr	52	He	0.000	-2870.9	751	0.9	0.4	
Cr	53	He	-0.096	-79.9	83	28.0	0.4	
Mn	55	He	0.144	31.6	157	24.2	0.1	CCB Failed
Co	59	He	0.000	-755.7	39	40.5	0.04	
Ni	60	He	-1.218	-7.7	2073	5.5	0.4	
Ni	62	He	-1.204	-2.3	291	3.3	0.4	
Cu	63	He	0.023	35.5	154	22.9	0.2	
Cu	65	He	0.011	75.4	68	27.1	0.2	
Zn	66	He	-0.013	-491.9	90	32.1	1	
As	75	He	0.022	41.1	8	27.2	0.4	
Se	77	H2	0.123	89.7	747	3.0	20	
Se	78	H2	0.004	96.0	8	27.2	1	
Mo	95	He	-0.002	-108.2	8	65.5	0.1	
Mo	97	He	-0.009	-16.9	1	173.2	0.1	
Mo	98	He	-0.001	-70.8	7	50.0	0.1	
Ag	107	He	0.003	24.0	39	13.1	0.04	
Ag	109	He	-0.001	-287.0	22	48.2	0.04	
Cd	111	He	-0.003	-26.0	0	173.2	0.04	
Cd	114	He	-0.002	-37.9	5	24.4	0.04	
Sb	121	He	0.010	41.7	34	20.1	0.2	
Sb	123	He	0.004	180.4	21	50.1	0.1	
Ba	135	He	0.037	113.2	13	75.0	0.1	
Ba	137	He	0.043	28.2	31	17.5	0.1	
Tl	203	He	0.003	42.7	52	19.5	0.04	
Tl	205	He	0.002	60.5	88	25.3	0.04	
[Pb]	206	He	0.003	79.3	74	14.4	0.1	
[Pb]	207	He	0.000	647.7	60	22.2	0.1	
Pb	208	He	0.003	77.6	290	16.9	0.1	
U	238	He	0.001	31.2	28	18.3	0.04	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4980699	0.54	5024664	99.13	70	125	
Ge	72	He	69266	1.48	69469	99.71	70	125	
Ge	72	H2	950747	0.97	990900	95.95	70	125	
In	115	He	563335	0.66	553695	101.74	70	125	
Lu	175	He	1916443	0.72	1872725	102.33	70	125	
Th	232	He	4297495	0.91	4140443	103.79	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	059LCCV.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T21:02:46-07:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.043	22.421	123	22.46	0.04	108	
B	10	No Gas	2.879	10.662	1570	7.35	1	288	
B	11	No Gas	2.712	5.630	7316	3.68	1	271	
V	51	He	0.389	6.002	706	6.41	0.4	97	
Cr	52	He	0.424	17.292	1789	8.80	0.4	106	
Cr	53	He	0.256	52.305	193	20.33	0.4	64	
Mn	55	He	0.156	58.842	167	49.96	0.1	156	LLCCV Failed
Co	59	He	0.035	8.433	209	6.45	0.04	87	
Ni	60	He	-0.896	-2.420	2507	2.86	0.4	-224	LLCCV Failed
Ni	62	He	-0.676	-33.964	408	14.07	0.4	-169	LLCCV Failed
Cu	63	He	0.236	4.688	1037	3.10	0.2	118	
Cu	65	He	0.228	6.196	526	4.76	0.2	114	
Zn	66	He	1.071	6.661	610	5.01	1	107	
As	75	He	1.112	12.074	259	13.03	1	111	
Se	77	H2	2.101	11.886	1134	4.20	2	105	
Se	78	H2	2.005	3.766	1183	3.78	2	100	
Mo	95	He	0.092	13.830	184	13.07	0.1	92	
Mo	97	He	0.085	18.259	118	17.29	0.1	85	
Mo	98	He	0.114	27.096	382	26.13	0.1	114	
Ag	107	He	0.042	15.508	329	15.48	0.04	105	
Ag	109	He	0.044	0.989	350	0.00	0.04	109	
Cd	111	He	0.034	16.395	29	15.29	0.04	86	
Cd	114	He	0.037	2.479	81	3.11	0.04	92	
Sb	121	He	0.101	13.475	180	11.38	0.1	101	
Sb	123	He	0.116	13.142	168	11.16	0.1	116	
Ba	135	He	0.071	41.187	21	32.88	0.1	71	
Ba	137	He	0.119	15.675	63	12.55	0.1	119	
Tl	203	He	0.046	15.440	358	12.16	0.04	115	
Tl	205	He	0.045	9.812	834	6.95	0.04	112	
[Pb]	206	He	0.095	15.153	588	15.40	0.1	95	
[Pb]	207	He	0.097	2.996	537	3.29	0.1	97	
Pb	208	He	0.101	4.043	2498	5.63	0.1	101	
U	238	He	0.040	4.344	1047	4.97	0.04	100	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4856831	2.80	5024664	96.66	70	125	
Ge	72	He	68467	1.66	69469	98.56	70	125	
Ge	72	H2	972485	0.93	990900	98.14	70	125	
In	115	He	559822	0.92	553695	101.11	70	125	
Lu	175	He	1923814	2.19	1872725	102.73	70	125	
Th	232	He	4263057	0.68	4140443	102.96	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2.0ppb
Data File Name	060_QC3.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T21:06:34-07:00
Sample Type	QC3
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.101	2.658	5813	1.11	2	105	
B	10	No Gas	3.590	4.595	1916	4.74	2	180	
B	11	No Gas	3.546	3.856	9276	2.81	2	177	
V	51	He	1.945	2.726	3369	1.58	2	97	
Cr	52	He	1.966	1.474	5596	1.10	2	98	
Cr	53	He	1.938	2.417	723	0.92	2	97	
Mn	55	He	2.129	4.091	1893	4.73	2	106	
Co	59	He	2.048	2.072	9955	1.91	2	102	
Ni	60	He	0.941	10.034	5106	1.76	2	47	QC3 Main CR1 Failed
Ni	62	He	0.925	9.981	770	1.98	-1	-92	
Cu	63	He	2.117	2.715	8862	1.59	2	106	
Cu	65	He	2.064	2.346	4397	1.22	2	103	
Zn	66	He	2.101	16.079	1104	13.82	2	105	
As	75	He	2.283	5.325	527	4.84	2	114	
Se	77	H2	2.275	6.433	1150	2.14	-1	-227	
Se	78	H2	2.031	1.210	1182	1.69	2	102	
Mo	95	He	1.966	7.219	3679	6.76	2	98	
Mo	97	He	1.883	9.105	2365	9.21	2	94	
Mo	98	He	2.035	2.171	6627	1.79	2	102	
Ag	107	He	1.983	1.575	14763	1.70	2	99	
Ag	109	He	2.025	1.456	15110	1.39	2	101	
Cd	111	He	1.965	2.243	1497	1.81	2	98	
Cd	114	He	2.026	2.236	4009	1.83	2	101	
Sb	121	He	2.036	3.231	3314	2.78	2	102	
Sb	123	He	1.990	4.767	2645	4.70	2	99	
Ba	135	He	2.146	13.428	509	13.52	2	107	
Ba	137	He	2.009	4.707	877	4.30	2	100	
Tl	203	He	1.903	2.970	13516	2.40	2	95	
Tl	205	He	1.938	2.018	33452	1.75	2	97	
[Pb]	206	He	1.927	2.698	10633	4.27	2	96	
[Pb]	207	He	1.888	0.269	9264	1.57	2	94	
Pb	208	He	1.942	1.540	43412	1.49	2	97	
U	238	He	1.977	0.534	51238	0.97	2	99	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4893214	1.73	5024664	97.38	70	125	
Ge	72	He	68440	1.13	69469	98.52	70	125	
Ge	72	H2	958736	0.55	990900	96.75	70	125	
In	115	He	561193	0.46	553695	101.35	70	125	
Lu	175	He	1899592	1.74	1872725	101.43	70	125	
Th	232	He	4263400	0.97	4140443	102.97	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2.0ppb
Data File Name	061_QC3.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T21:10:21-07:00
Sample Type	QC3
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.026	2.322	5729	1.40	2	101	
B	10	No Gas	3.106	2.667	1727	3.90	2	155	
B	11	No Gas	3.134	3.389	8518	1.63	2	157	
V	51	He	2.120	5.776	3692	4.14	2	106	
Cr	52	He	1.947	6.005	5585	3.61	2	97	
Cr	53	He	1.854	5.589	701	3.17	2	93	
Mn	55	He	2.334	6.189	2087	7.64	2	117	
Co	59	He	2.042	4.300	9987	2.68	2	102	
Ni	60	He	1.003	2.114	5230	1.31	2	50	QC3 Main CR1 Failed
Ni	62	He	1.199	6.020	838	2.04	-1	-120	
Cu	63	He	2.059	1.060	8680	2.62	2	103	
Cu	65	He	2.124	4.749	4554	3.10	2	106	
Zn	66	He	2.094	6.930	1110	7.87	2	105	
As	75	He	2.098	6.064	488	4.61	2	105	
Se	77	H2	2.181	7.312	1133	2.54	-1	-218	
Se	78	H2	2.057	3.264	1197	2.75	2	103	
Mo	95	He	1.993	5.292	3697	5.31	2	100	
Mo	97	He	2.007	6.754	2495	6.47	2	100	
Mo	98	He	2.084	4.423	6725	4.34	2	104	
Ag	107	He	2.001	3.735	14760	3.83	2	100	
Ag	109	He	2.012	1.373	14878	1.08	2	101	
Cd	111	He	2.011	3.370	1517	3.08	2	101	
Cd	114	He	2.042	0.332	4002	0.09	2	102	
Sb	121	He	2.081	3.299	3356	3.13	2	104	
Sb	123	He	2.081	3.237	2740	2.93	2	104	
Ba	135	He	1.865	6.848	439	6.85	2	93	
Ba	137	He	2.054	2.768	888	2.49	2	103	
Tl	203	He	1.905	1.682	13525	0.87	2	95	
Tl	205	He	1.945	2.307	33554	1.64	2	97	
[Pb]	206	He	1.933	2.616	10662	3.47	2	97	
[Pb]	207	He	1.919	2.842	9410	1.44	2	96	
Pb	208	He	1.938	1.284	43319	0.58	2	97	
U	238	He	1.969	1.277	50717	1.37	2	98	

Not included in cal. R. 10/6/15

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	5000143	1.65	5024664	99.51	70	125	
Ge	72	He	68892	1.59	69469	99.17	70	125	
Ge	72	H2	958941	0.54	990900	96.77	70	125	
In	115	He	556023	0.30	553695	100.42	70	125	
Lu	175	He	1899331	1.62	1872725	101.42	70	125	
Th	232	He	4237429	0.33	4140443	102.34	70	125	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS 2.0ppb
Data File Name	062_QC3.d
Data Path Name	D:\Data\Experiments\100515B.b
Acq Date Time	2015-10-05T21:14:11-07:00
Sample Type	QC3
Dilution	1
Comment	
ISTD Ref File Name	001CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.085	4.749	5768	2.11	2	104	
B	10	No Gas	3.084	8.108	1678	4.84	2	154	
B	11	No Gas	3.109	3.973	8282	3.61	2	155	
V	51	He	2.076	6.294	3617	4.93	2	104	
Cr	52	He	1.974	6.751	5657	5.29	2	99	
Cr	53	He	1.975	12.575	740	9.74	2	99	
Mn	55	He	2.377	6.422	2127	8.01	2	119	
Co	59	He	2.033	3.375	9952	1.95	2	102	
Ni	60	He	0.982	11.017	5201	1.37	2	49	QC3 Main CR1 Failed
Ni	62	He	1.009	39.902	794	10.78	-1	-101	
Cu	63	He	2.124	4.239	8954	2.52	2	106	
Cu	65	He	2.097	1.608	4501	2.70	2	105	
Zn	66	He	2.045	6.457	1087	7.45	2	102	
As	75	He	2.209	7.006	514	5.33	2	110	
Se	77	H2	2.394	8.463	1182	2.99	-1	-239	
Se	78	H2	2.031	1.720	1192	2.82	2	102	
Mo	95	He	1.907	5.624	3553	7.32	2	95	
Mo	97	He	1.999	4.845	2494	4.14	2	100	
Mo	98	He	2.004	3.722	6489	2.64	2	100	
Ag	107	He	2.032	2.834	15037	3.20	2	102	
Ag	109	He	2.037	0.623	15111	1.28	2	102	
Cd	111	He	1.991	3.142	1508	1.45	2	100	
Cd	114	He	1.987	2.381	3909	0.69	2	99	
Sb	121	He	2.095	2.053	3390	1.28	2	105	
Sb	123	He	2.075	3.493	2742	2.09	2	104	
Ba	135	He	1.929	6.447	456	8.06	2	96	
Ba	137	He	2.082	5.440	903	3.67	2	104	
Tl	203	He	1.916	1.400	13793	1.20	2	96	
Tl	205	He	1.896	1.877	33179	1.81	2	95	
[Pb]	206	He	1.912	0.677	10693	0.74	2	96	
[Pb]	207	He	1.889	1.806	9396	2.10	2	94	
Pb	208	He	1.918	1.265	43472	1.25	2	96	
U	238	He	1.967	1.945	50918	1.22	2	98	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Sc	45	No Gas	4896052	2.77	5024664	97.44	70	125	
Ge	72	He	68936	1.71	69469	99.23	70	125	
Ge	72	H2	967026	1.60	990900	97.59	70	125	
In	115	He	558014	1.76	553695	100.78	70	125	
Lu	175	He	1925595	0.37	1872725	102.82	70	125	
Th	232	He	4260488	2.24	4140443	102.90	70	125	

10/6/15

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/16/2015	**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509486	**Prep Lot:**	KWG1509174	**Report Group:**	K1510507
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469493	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2		Rpt
Decachlorobiphenyl	12.26 +0.00	13.62 +0.01	4630951	1233204m	29.29	14.98		146 OK
			%Recovery =		146 OK	75 OK	Limits = 43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.93	4.95	8340103	625563	1,780	502.07	890D	250D	RPD
Aroclor 1248			0	0	1,652	1,441	820D	720D	**720D**
Aroclor 1248 {2}	5.29	5.51	6598672	1801599	1,513	698.56	750D	350D	
Aroclor 1248 {3}	5.68	5.92	10935092	4972511	1,702	1,672	850D	830D	
Aroclor 1248 {4}	5.87	6.35	7754317	4772387	1,579	1,989	790D	990D	
Aroclor 1248 {5}	6.28	7.05	7805784	9998501	1,686	2,343	840D	1200ED	
Aroclor 1254 {1}	6.25	6.71	5682445	6958404	1,461	1,894	730D	940D	
Aroclor 1254			0	0	1,296	1,524	650D	760D	**650D**
Aroclor 1254 {2}	6.68	7.05	9142407	9998501	1,260	1,726	630D	860D	
Aroclor 1254 {3}	6.83	7.16	15960273	2933305	1,091	1,514	540D	760D	
Aroclor 1254 {4}	7.17	8.01	10857548	2205073	1,135	973.32	570D	490D	
Aroclor 1254 {5}	7.78	8.76	9710838	4743655	1,534	1,512	760D	750D	
Aroclor 1260 {1}	7.07 +0.00	7.83 +0.00	0	755303	0.0000	342.40	11U	170D	
Aroclor 1260			0	0	345.00	411.52	170D	210D	**170D**
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.01	3327709	1307986	410.13	346.04	200D	170D	
Aroclor 1260 {3}	8.64 +0.00	9.71 +0.01	2326811	1209526	282.69	335.16	140D	170D	
Aroclor 1260 {4}	9.11 +0.00	10.39 +0.01	5584385	4386247	297.06	507.99	150D	250D	
Aroclor 1260 {5}	9.89 +0.01	11.02	5534447	2937767	390.12	525.98	190D	260D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	11U	11U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.108 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F006.D
Lab ID: KWG1509174-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/30/2015 10:03
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:37
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F006.D
Lab ID: KWG1509174-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/30/2015 10:03
Date Quantitated: 10/02/2015 10:29
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:40
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469500	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	14252666	5805295	80.51	73.81				81	OK
					%Recovery =	81 OK	74 OK	Limits =	10-135			
Decachlorobiphenyl	12.26	+0.01	13.62	13039460	6477400	82.46	78.66				82	OK
					%Recovery =	82 OK	79 OK	Limits =	43-148			

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.215 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D
Inj Date : 30-SEP-2015 10:03
Sample Info: KWG1509174-4 MB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

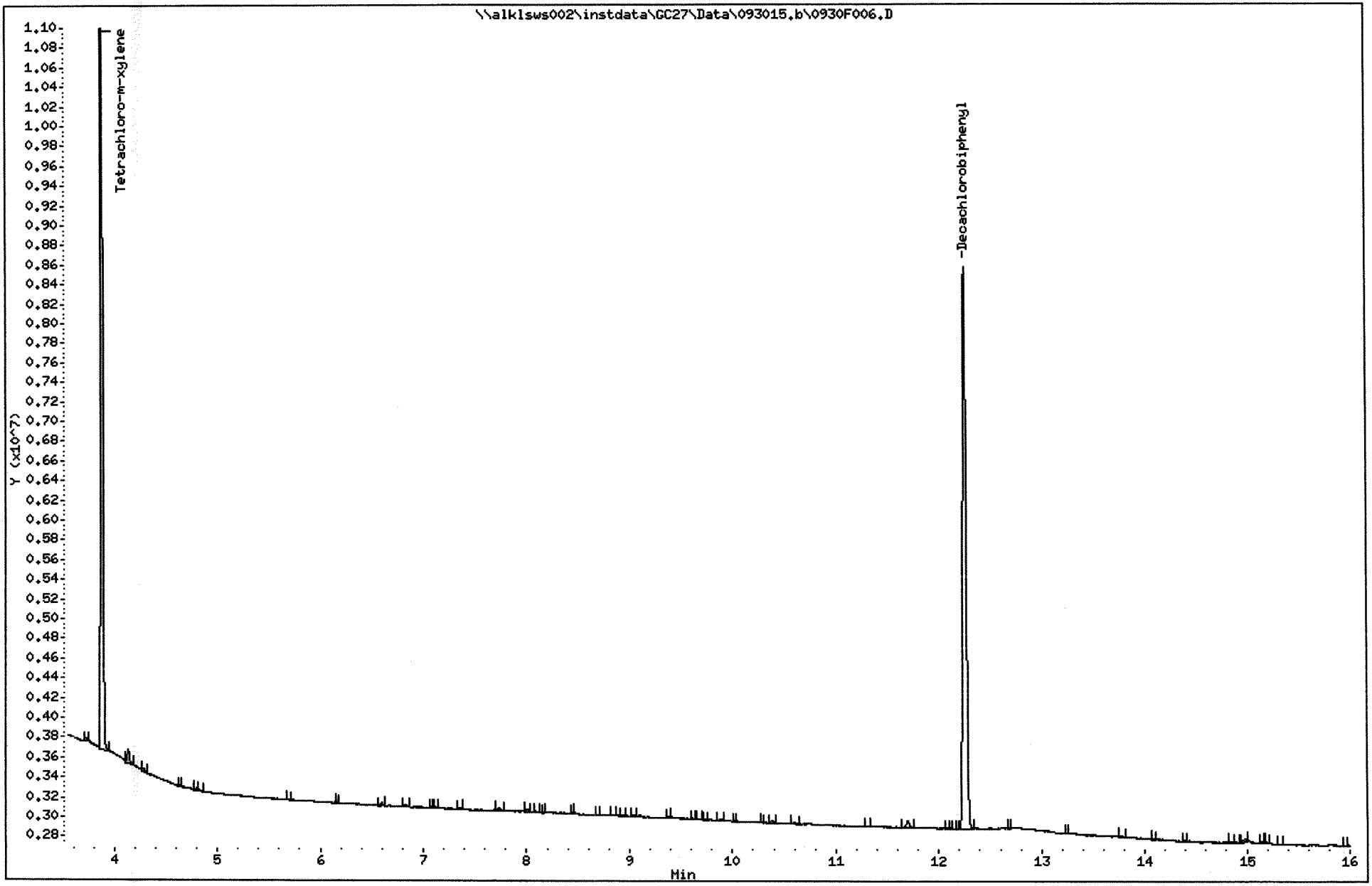
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	14252666	5805295	80.5	73.8		100.00
Decachlorobiphenyl	12.257	13.617	13039460	6477400	82.5	78.7		100.00

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Date : 30-SEP-2015 10:03
Client ID:
Sample Info: KWG1509174-4 MB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-35MS

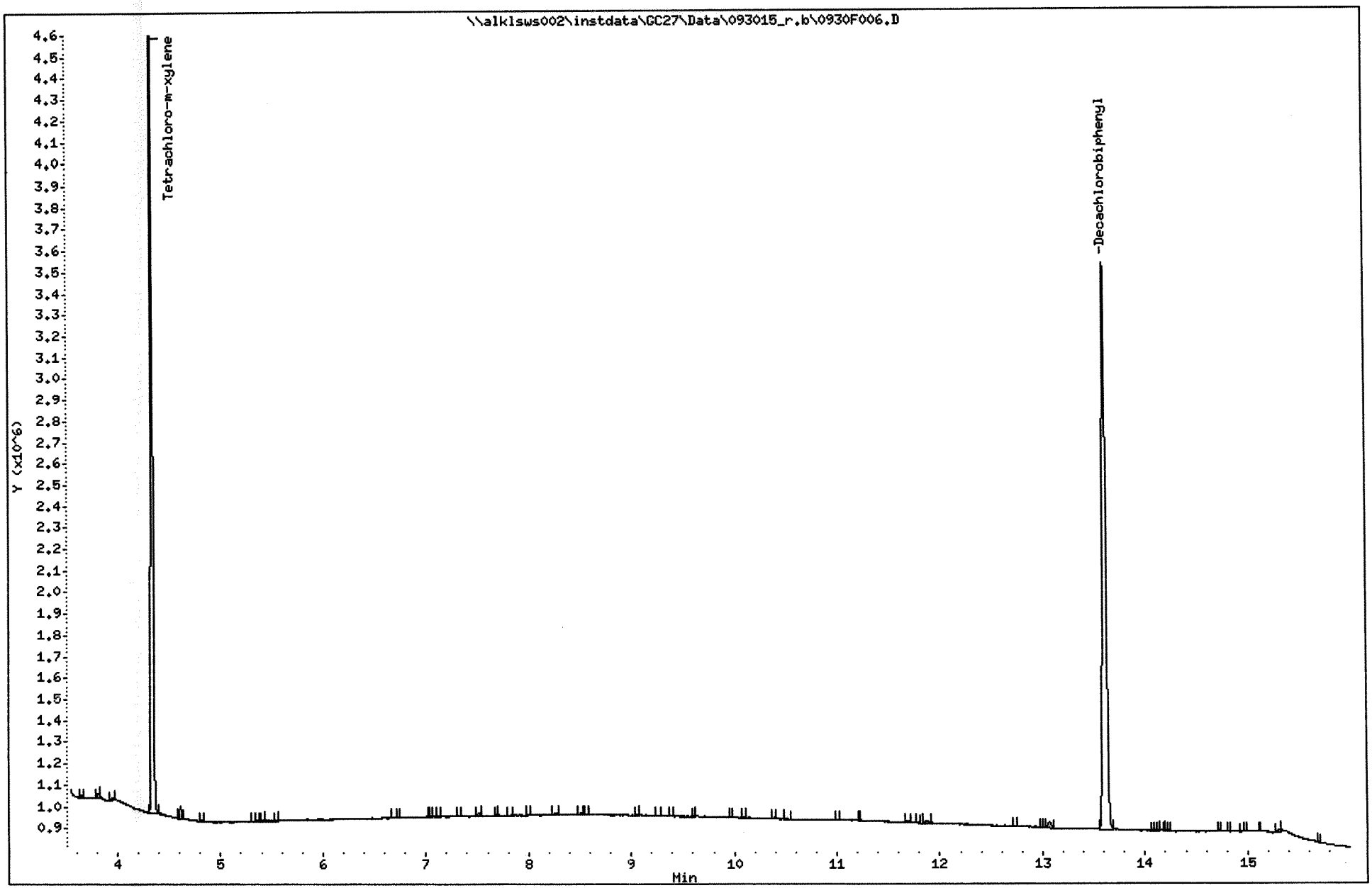


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D
Date : 30-SEP-2015 10:03
Client ID:
Sample Info: KWG1509174-4 MB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F006.D
Lab ID: K1510507-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 10/01/2015 11:22
Date Quantitated: 10/01/2015 18:22
Batch ID: KWG1509486
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:24
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F006.D	**Date Acquired:**	10/01/2015 11:22
Lab ID:	K1510507-001	**Date Quantitated:**	10/01/2015 18:21
RunType:	SMPL	**Batch ID:**	KWG1509486
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	
Above Highest ICAL Level	Aroclor 1248 {5}	2343.17	NA	2000	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:27
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/16/2015	**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509486	**Prep Lot:**	KWG1509174	**Report Group:**	K1510507
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469493	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:		**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Decachlorobiphenyl	12.26	+0.00	13.62	+0.01	4630951	1233204m	29.29	14.98			146	OK
						%Recovery =	146 OK	75 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.93	4.95	8340103	625563	1,780	502.07	890D	250D	RPD
Aroclor 1248			0	0	1,652	1,441	820D	720D	**720**D
Aroclor 1248 {2}	5.29	5.51	6598672	1801599	1,513	698.56	750D	350D	
Aroclor 1248 {3}	5.68	5.92	10935092	4972511	1,702	1,672	850D	830D	
Aroclor 1248 {4}	5.87	6.35	7754317	4772387	1,579	1,989	790D	990D	
Aroclor 1248 {5}	6.28	7.05	7805784	9998501	1,686	2,343	840D	1200ED	
Aroclor 1254 {1}	6.25	6.71	5682445	6958404	1,461	1,894	730D	940D	
Aroclor 1254			0	0	1,296	1,524	650D	760D	**650**D
Aroclor 1254 {2}	6.68	7.05	9142407	9998501	1,260	1,726	630D	860D	
Aroclor 1254 {3}	6.83	7.16	15960273	2933305	1,091	1,514	540D	760D	
Aroclor 1254 {4}	7.17	8.01	10857548	2205073	1,135	973.32	570D	490D	
Aroclor 1254 {5}	7.78	8.76	9710838	4743655	1,534	1,512	760D	750D	
Aroclor 1260 {1}	7.07 +0.00	7.83 +0.00	0	755303	0.0000	342.40	11U	170D	
Aroclor 1260			0	0	345.00	411.52	170D	210D	**170**D
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.01	3327709	1307986	410.13	346.04	200D	170D	
Aroclor 1260 {3}	8.64 +0.00	9.71 +0.01	2326811	1209526	282.69	335.16	140D	170D	
Aroclor 1260 {4}	9.11 +0.00	10.39 +0.01	5584385	4386247	297.06	507.99	150D	250D	
Aroclor 1260 {5}	9.89 +0.01	11.02	5534447	2937767	390.12	525.98	190D	260D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.108 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F006.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Inj Date : 01-OCT-2015 11:22
Sample Info: K1510507-001 5X
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.336	3208051	1365904	18.1	17.4		100.00
Aroclor 1248	4.933	4.949	8340103	625563	1780	502	80.00- 120.00	100.00
	5.289	5.513	6598672	1801599	1510	699	17.18- 25.77	79.12
	5.676	5.919	10935092	4972511	1700	1670	19.47- 29.21	131.11
	5.873	6.353	7754317	4772387	1580	1990	3.05- 4.58	92.98
	6.283	7.049	7805784	9998501	1690	2340	0.69- 1.04	93.59
		Average of Peak Amounts =			1650	1440		
Aroclor 1254	6.246	6.713	5682445	6958404	1460	1890	80.00- 120.00	100.00
	6.679	7.049	9142407	9998501	1260	1730	1017.66-1526.49	160.89
	6.833	7.156	15960273	2933305	1090	1510	9646.23-14469.35	280.87
	7.173	8.006	10857548	2205073	1140	973	1126.72-1690.08	191.07
	7.776	8.763	9710838	4743655	1530	1510	281.12- 421.67	170.89
		Average of Peak Amounts =			1300	1520		
Aroclor 1260	7.073	7.829		755303		342	80.00- 120.00	100.00
	8.089	9.266	3327709	1307986	410	346	71.90- 107.85	59.52
	8.643	9.713	2326811	1209526	283	335	73.13- 109.69	41.61
	9.106	10.393	5584385	4386247	297	508	172.24- 258.37	99.88
	9.893	11.019	5534447	2937767	390	526	133.82- 200.73	98.98
		Average of Peak Amounts =			345	411		
Decachlorobiphenyl	12.256	13.619	4630951	1233204	29.3	15.0		100.00
Aroclors, Total	0.000	0.000	22750833	11921265	3290	3380		0.00

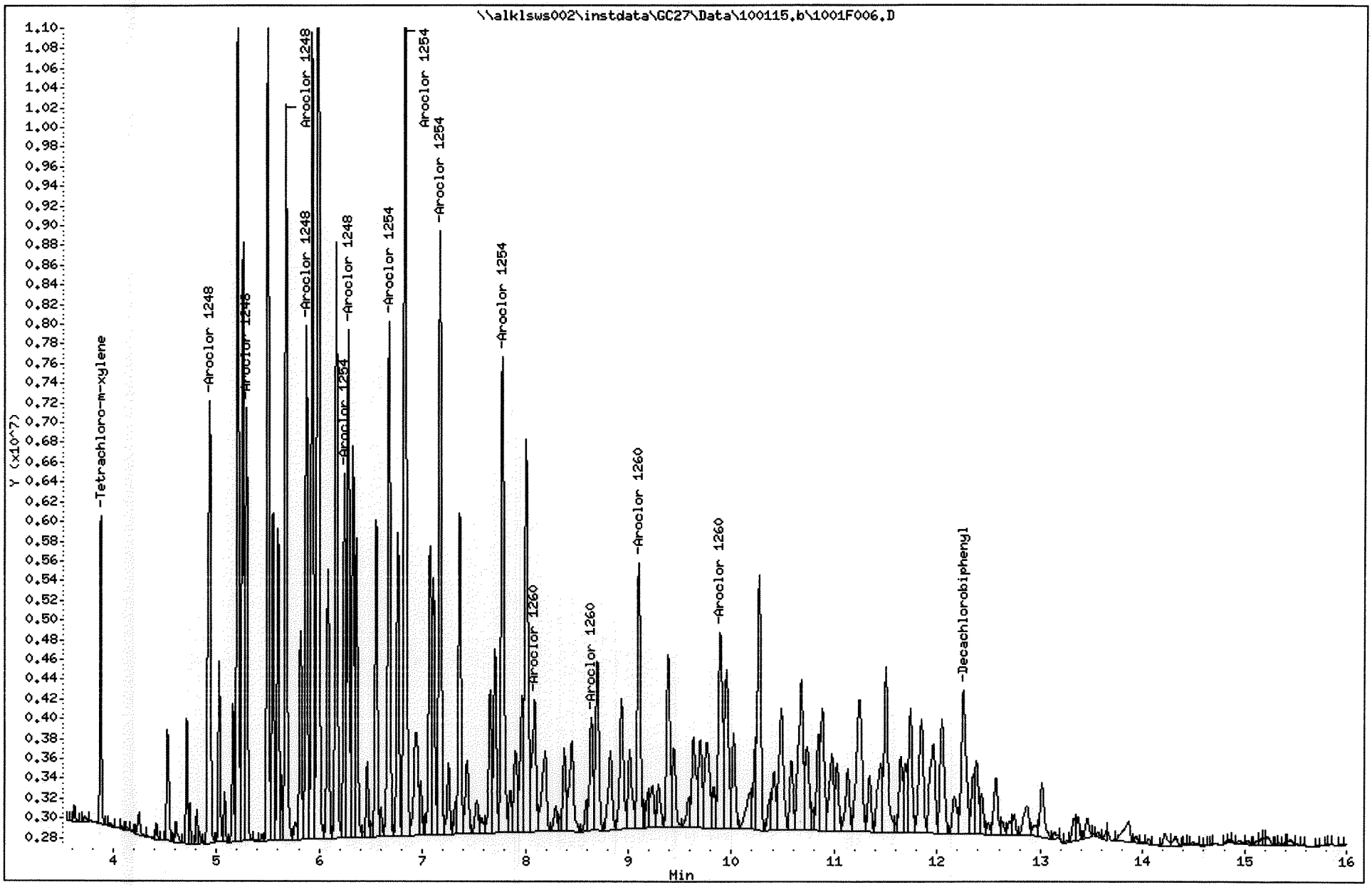
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F006.D
Date : 01-OCT-2015 11:22
Client ID:
Sample Info: K1510507-001 5X

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



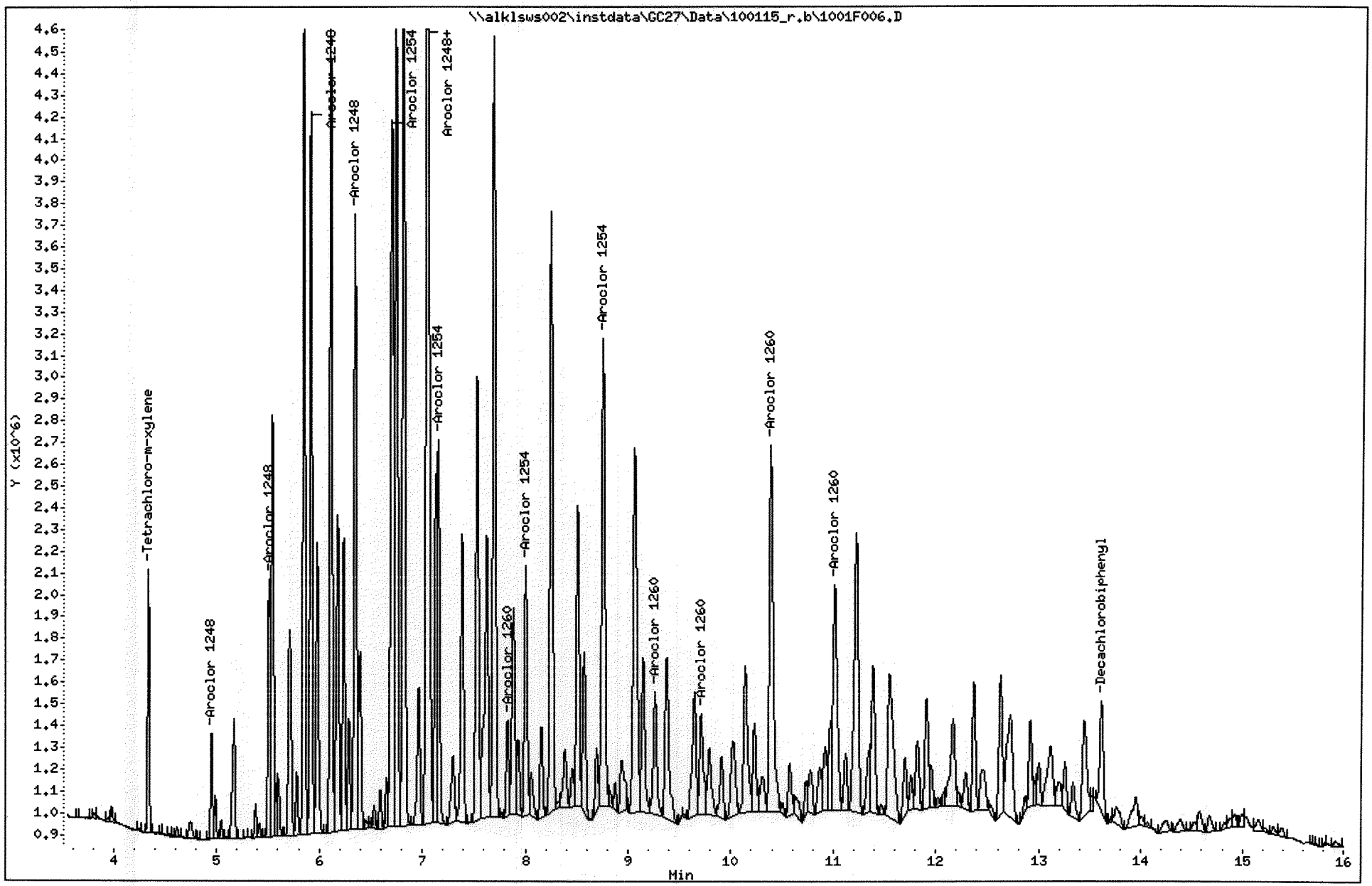
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Date : 01-OCT-2015 11:22
Client ID:
Sample Info: K1510507-001 5X

Instrument: GC27.i

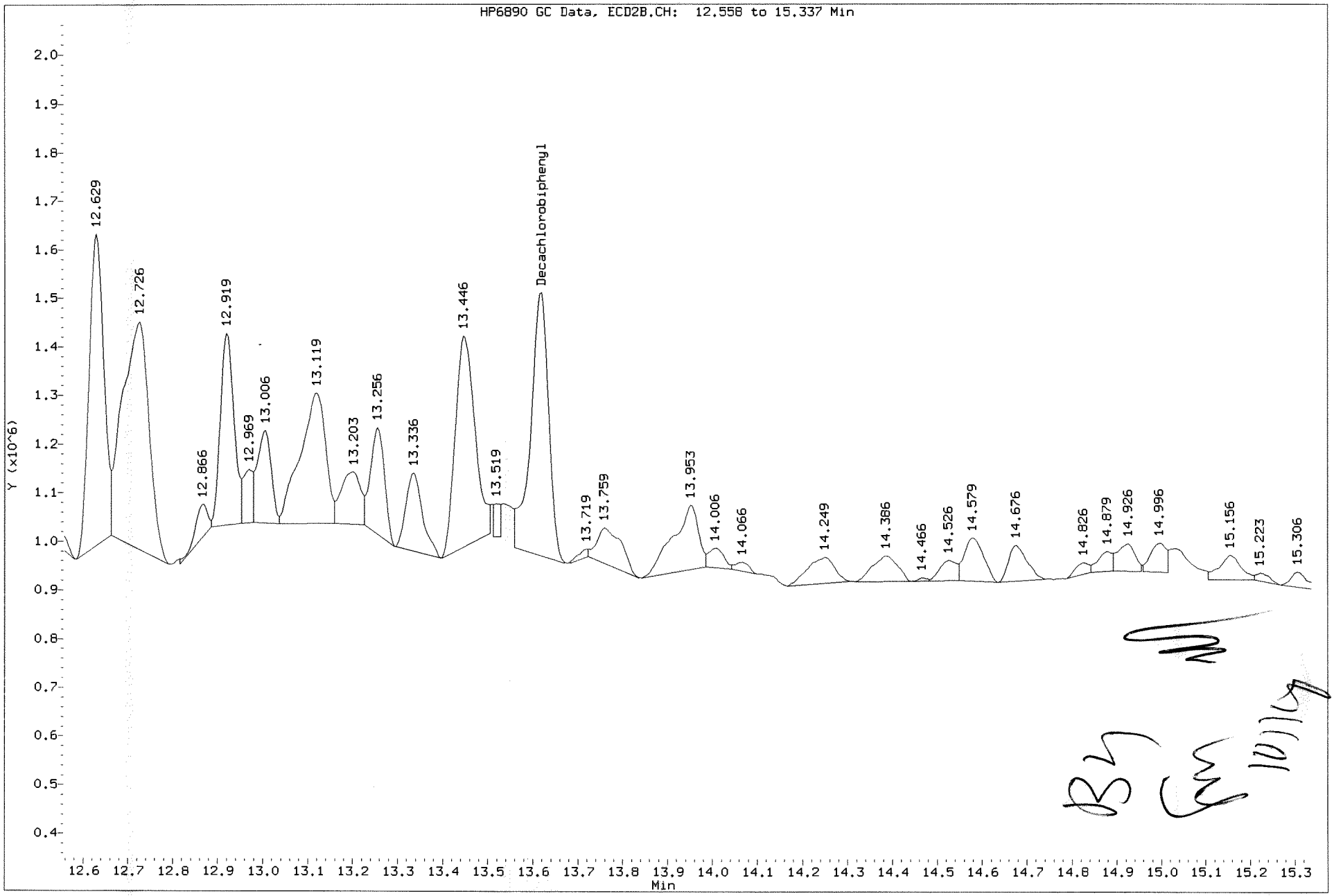
Operator: SMURRAY

Column phase: DB-XLB

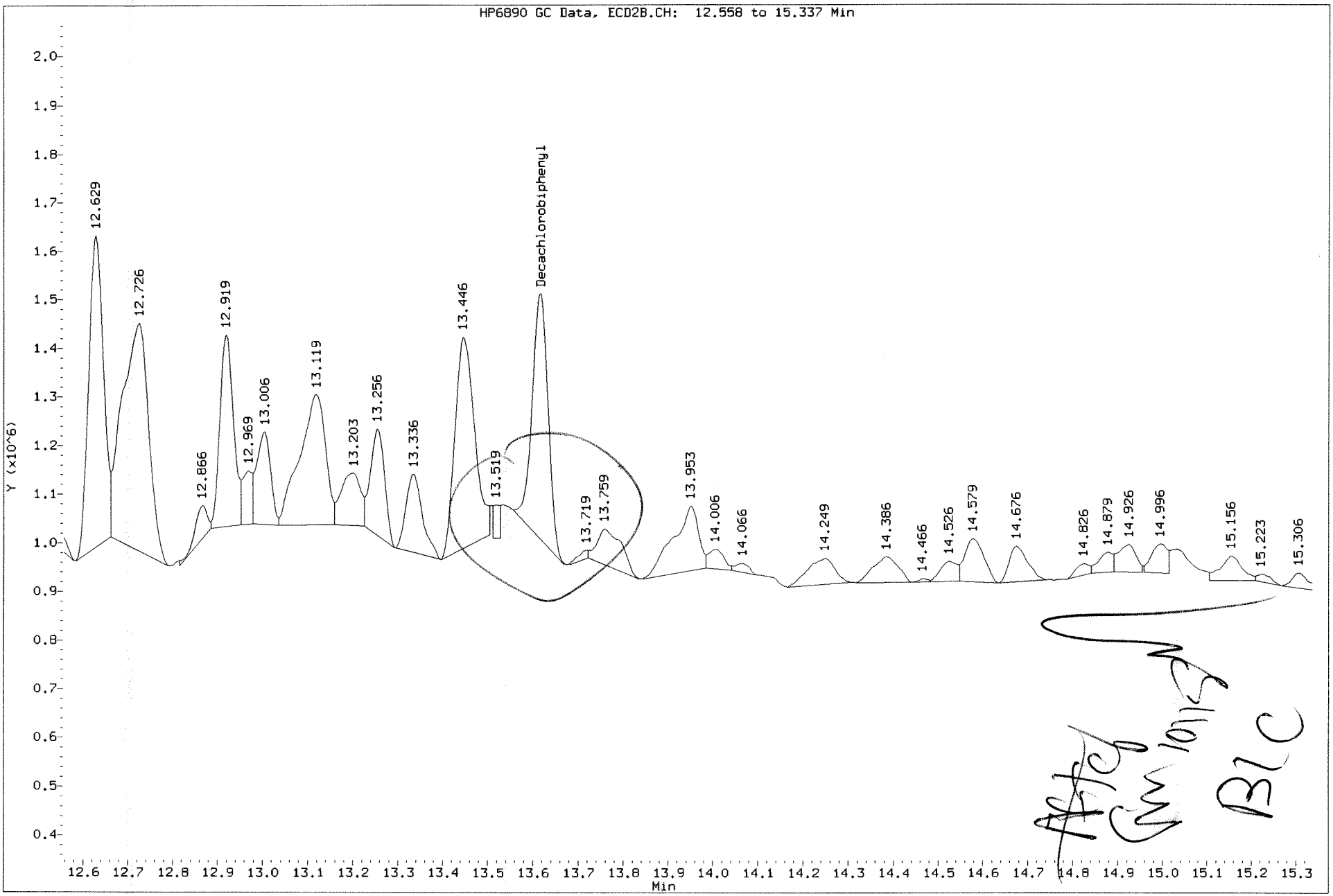
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Injection Date: 01-OCT-2015 11:22
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Injection Date: 01-OCT-2015 11:22
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F012.D
Lab ID: KWG1509174-1 -- K1510507-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/30/2015 12:26
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F012.D	**Date Acquired:**	09/30/2015 12:26
Lab ID:	KWG1509174-1 -- K1510507-001MS	**Date Quantitated:**	10/02/2015 10:30
RunType:	MS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:58
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469497	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	14545872	6368224	82.17		80.96				82	OK
					%Recovery =	82	OK	81	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	19733874	6931011m	124.79		84.17				125	OK
					%Recovery =	125	OK	84	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	1,926	1,338	192	133	**133**
Aroclor 1016 {1}	4.24	+0.00	4.62	3067617m	1511090	854.73	822.09	85.2	81.9	
Aroclor 1016 {2}	4.74	+0.00	4.95	3820180m	4161645	1,275	1,709	127	170	
Aroclor 1016 {3}	4.94	+0.00	5.59	36096792m	4444708	3,649	1,482	364	148	
Aroclor 1016 {4}	5.21	+0.01	5.92	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}	5.50	+0.01	6.12	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total				40942462	18160363	4,195	4,248	418J	423J	**418J**
Aroclor 1260				0	0	2,268	2,910	226	290	**226**
Aroclor 1260 {1}	7.08	+0.01	7.83	29447077	5406278m	2,989	2,451	298	244	
Aroclor 1260 {2}	8.09	+0.01	9.27	18234291	10063422m	2,247	2,662	224	265	
Aroclor 1260 {3}	8.65	+0.01	9.72	14484674	8947928m	1,760	2,479	175	247	
Aroclor 1260 {4}	9.11	+0.01	10.40	37767235	30163028m	2,009	3,493	200	348	
Aroclor 1260 {5}	9.90	+0.01	11.02	33138053	19358753m	2,336	3,466	233	345	
Aroclor 1262				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.145 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Inj Date : 30-SEP-2015 12:26
Sample Info: K1510507-001 MS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	14545872	6368224	82.2	81.0		100.00
Aroclor 1016	4.236	4.616	3067617	1511090	855	822	80.00- 120.00	100.00(M)
	4.740	4.953	3820180	4161645	1280	1710	63.77- 95.65	124.53(M)
	4.936	5.590	36096792	4444708	3650	1480	194.05- 291.08	1176.70(M)
	5.210	5.923					92.87- 139.30	0.00(M)
	5.500	6.116					91.60- 137.40	0.00(M)
		Average of Peak Amounts =			1930	1340		
Aroclor 1260	7.076	7.833	29447077	5406278	2990	2450	80.00- 120.00	100.00
	8.093	9.266	18234291	10063422	2250	2660	69.66- 104.50	61.92
	8.646	9.716	14484674	8947928	1760	2480	70.04- 105.07	49.19
	9.110	10.396	37767235	30163028	2010	3490	163.82- 245.72	128.25
	9.896	11.023	33138053	19358753	2340	3470	134.64- 201.96	112.53
		Average of Peak Amounts =			2270	2910		
Decachlorobiphenyl	12.263	13.623	19733874	6931011	125	84.2		100.00
Aroclors, Total	0.000	0.000	40942462	18160363	4190	4250		0.00

QC Flag Legend

M - Compound response manually integrated.

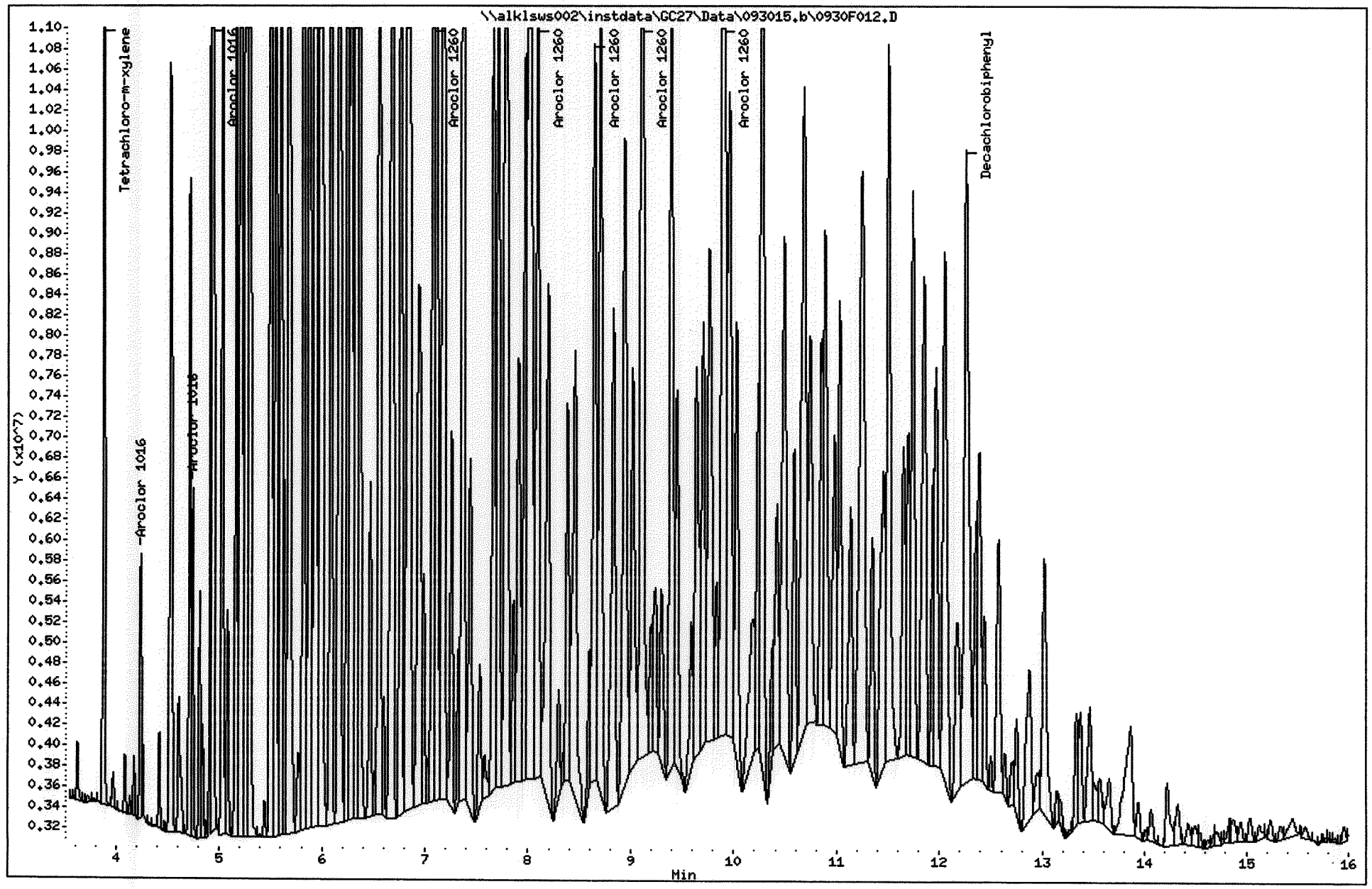
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Date : 30-SEP-2015 12:26
Client ID:
Sample Info: K1510507-001 MS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



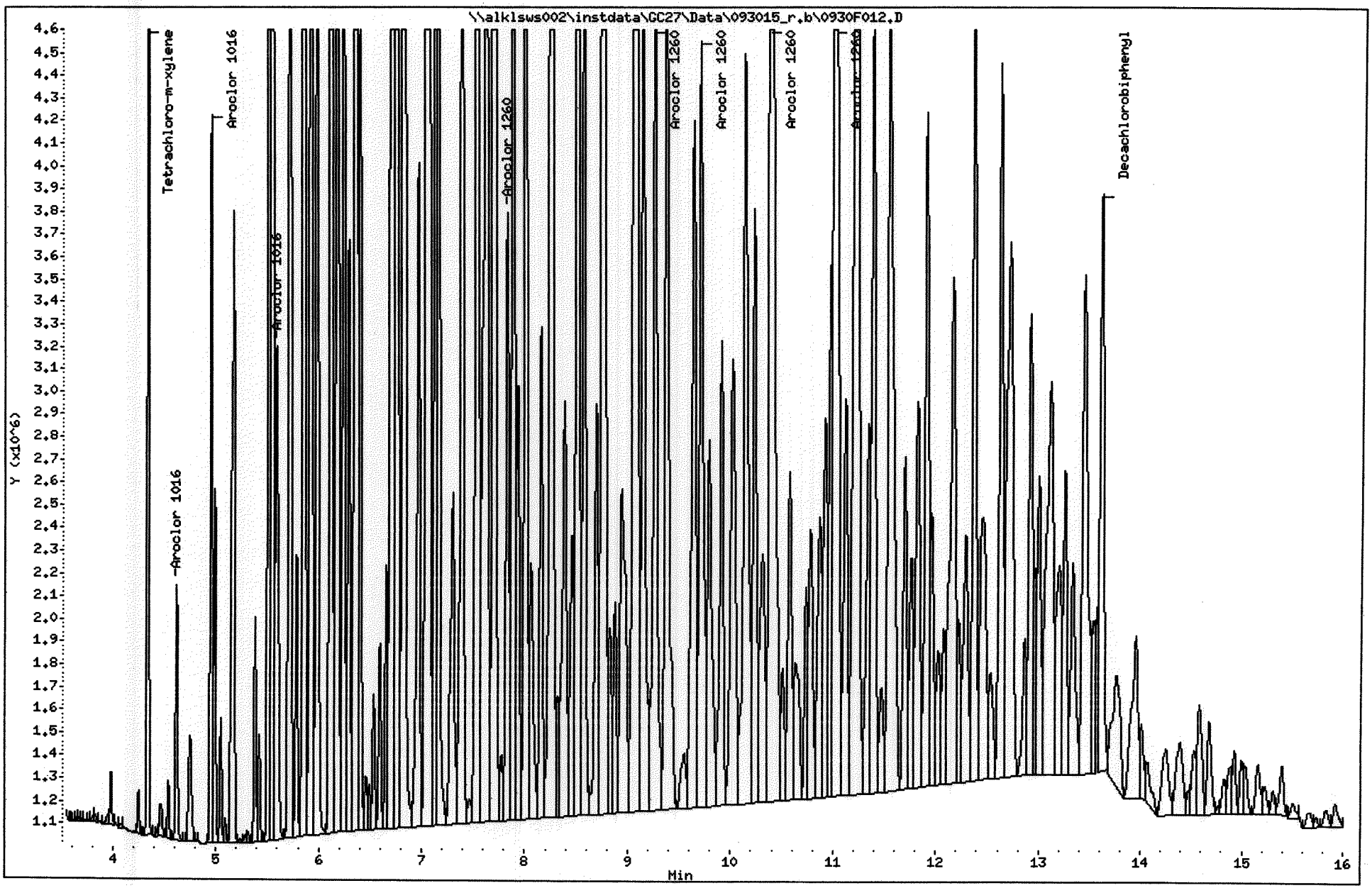
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Date : 30-SEP-2015 12:26
Client ID:
Sample Info: K1510507-001 MS

Instrument: GC27.i

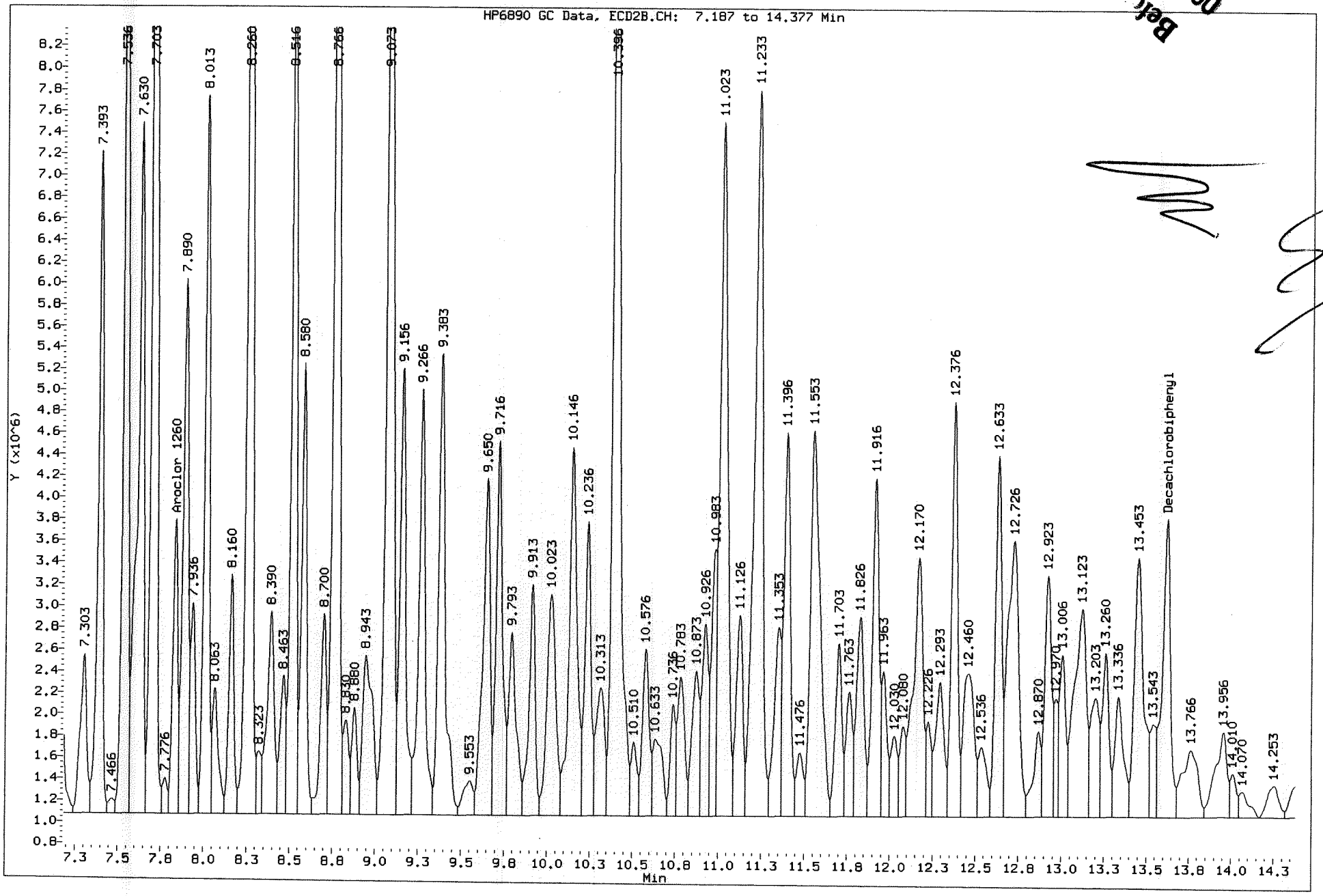
Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.1
Client Sample ID:



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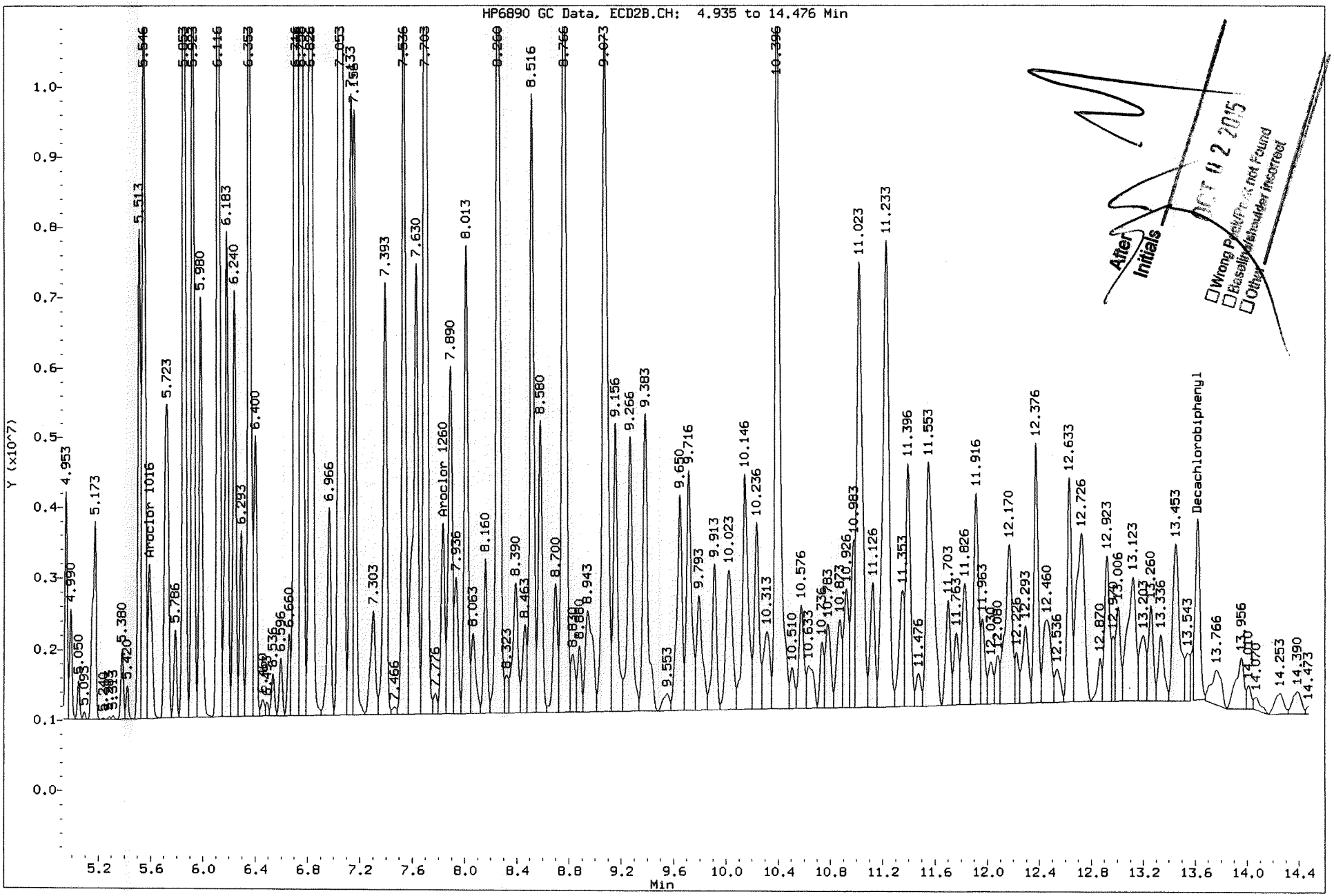
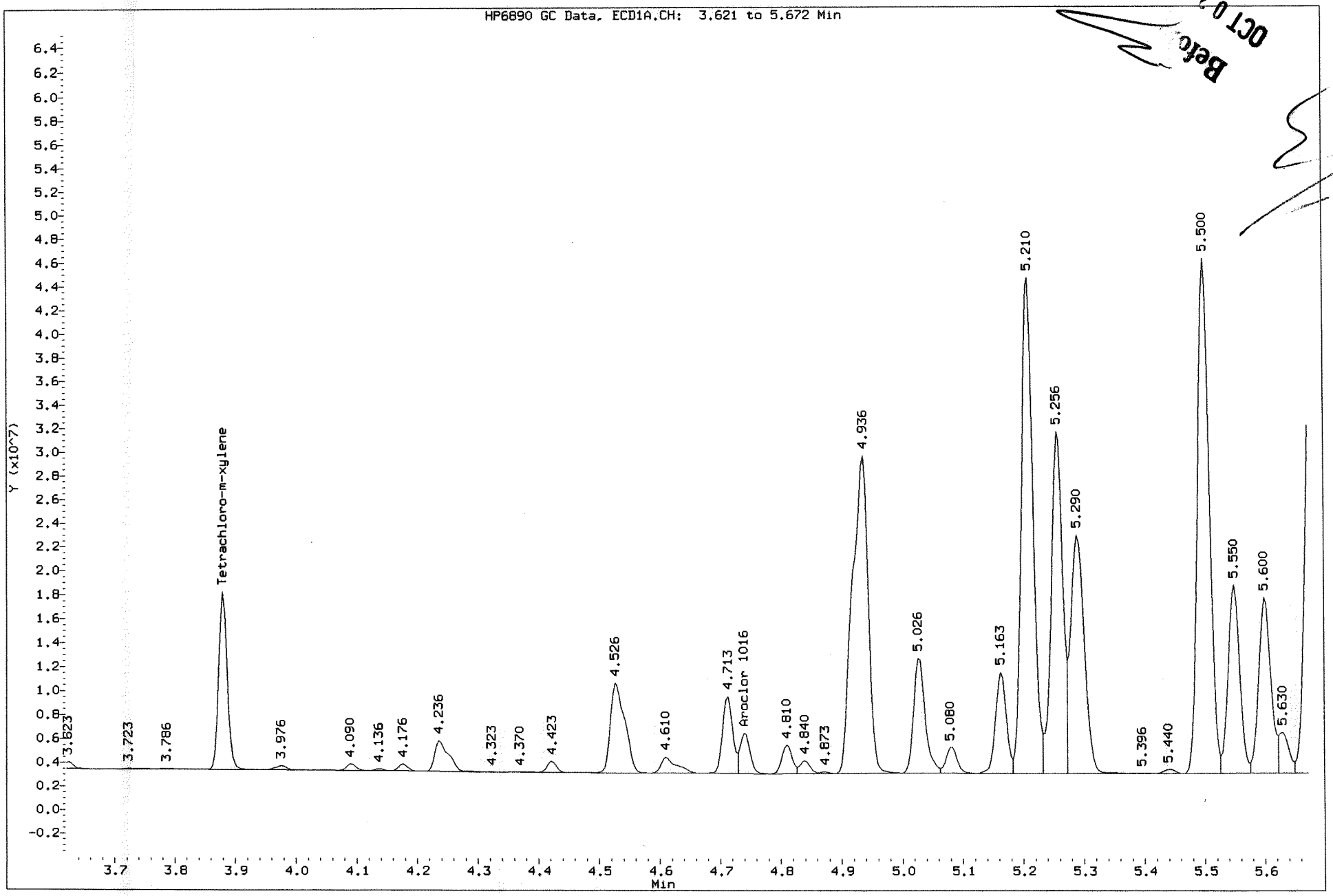
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



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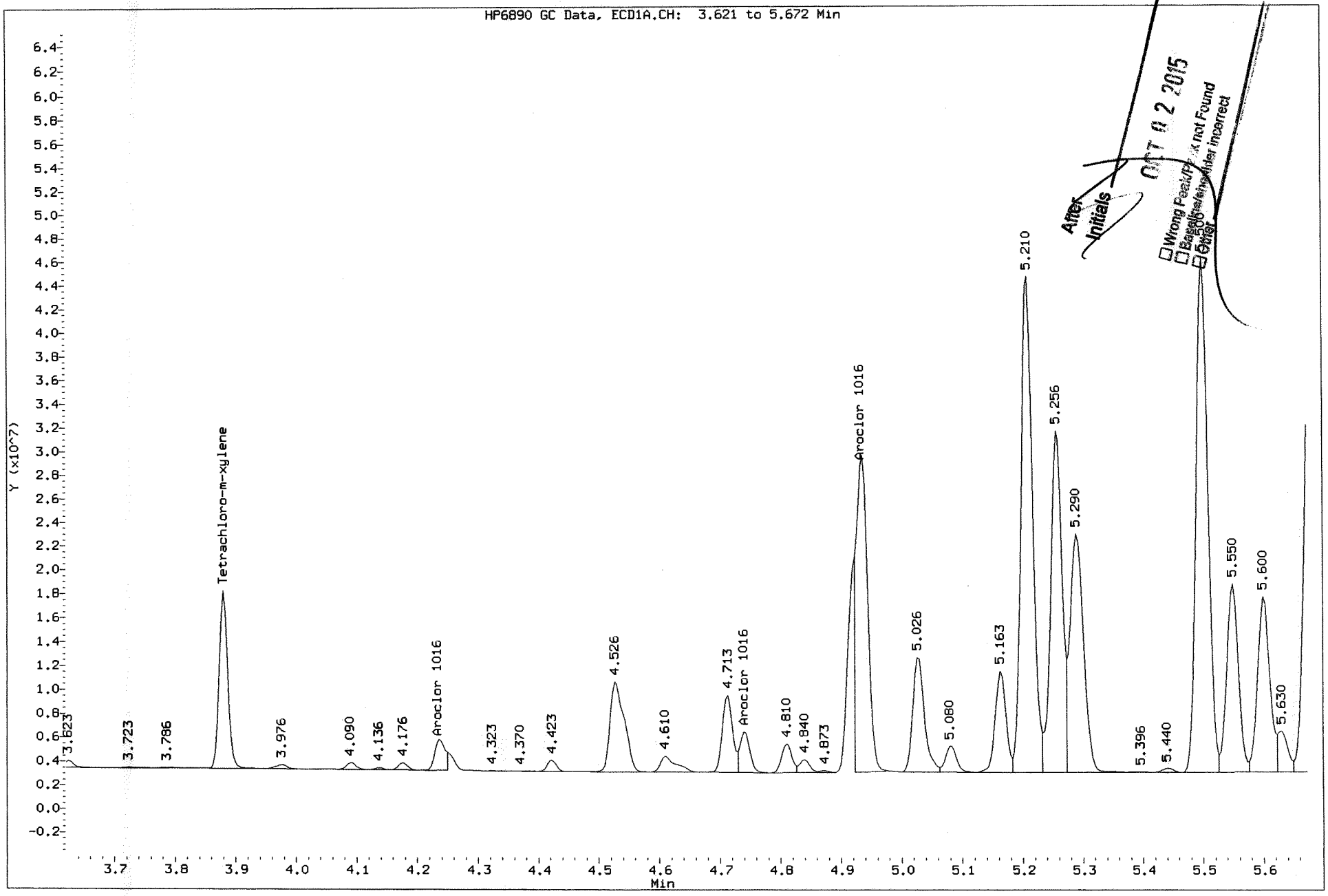
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



After Initials

OCT 0 2 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/shoulder incorrect
☐ Other

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F013.D	**Date Acquired:**	09/30/2015 12:50
Lab ID:	KWG1509174-2 -- K1510507-001DMS	**Date Quantitated:**	10/02/2015 10:30
RunType:	DMS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:01
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F013.D	**Date Acquired:**	09/30/2015 12:50
Lab ID:	KWG1509174-2 -- K1510507-001DMS	**Date Quantitated:**	10/02/2015 10:30
RunType:	DMS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469498	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	13110170	5908228	74.06	75.12				75	OK
					%Recovery =	74	75	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	19264412	5809030m	121.82	70.54				122	OK
					%Recovery =	122	71	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	1,949	1,335	194	133	**133**
Aroclor 1016 {1}	4.24	+0.00	4.62	2657127m	1408116	740.36	766.07	73.8	76.3	
Aroclor 1016 {2}	4.74	+0.00	4.95	4253690m	4215131	1,420	1,731	141	173	
Aroclor 1016 {3}	4.94	+0.01	5.59	36468180m	4520732	3,687	1,507	367	150	
Aroclor 1016 {4}	5.21	+0.01	5.92	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}	5.50	+0.01	6.12	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			40843913	16399609	4,194	3,890	418J	388J	**418J**
Aroclor 1260			0	0	2,245	2,555	224	255	**224**
Aroclor 1260 {1}	7.08 +0.01	7.83	27944678	4735974m	2,837	2,147	283	214	
Aroclor 1260 {2}	8.09 +0.01	9.27	18780067	9013758m	2,315	2,385	231	238	
Aroclor 1260 {3}	8.65 +0.01	9.72	14155532	7481678m	1,720	2,073	171	207	
Aroclor 1260 {4}	9.11 +0.01	10.40	37688586	26620591m	2,005	3,083	200	307	
Aroclor 1260 {5}	9.89 +0.01	11.02	33352375	17239416m	2,351	3,087	234	308	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.138 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Inj Date : 30-SEP-2015 12:50
Sample Info: K1510507-001 DMS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	13110170	5908228	74.1	75.1		100.00
Aroclor 1016	4.237	4.617	2657127	1408116	740	766	80.00- 120.00	100.00(M)
	4.740	4.953	4253690	4215131	1420	1730	63.77- 95.65	113.89(M)
	4.937	5.587	36468180	4520732	3690	1510	194.05- 291.08	1339.76(M)
	5.210	5.920					92.87- 139.30	0.00(M)
	5.500	6.117					91.60- 137.40	0.00(M)
		Average of Peak Amounts =			1950	1340		
Aroclor 1260	7.077	7.833	27944678	4735974	2840	2150	80.00- 120.00	100.00
	8.093	9.267	18780067	9013758	2310	2380	69.66- 104.50	67.20
	8.647	9.720	14155532	7481678	1720	2070	70.04- 105.07	50.66
	9.110	10.397	37688586	26620591	2000	3080	163.82- 245.72	134.87
	9.893	11.023	33352375	17239416	2350	3090	134.64- 201.96	119.35
		Average of Peak Amounts =			2240	2550		
Decachlorobiphenyl	12.260	13.620	19264412	5809030	122	70.5		100.00
Aroclors, Total	0.000	0.000	40843913	16399609	4190	3890		0.00

QC Flag Legend

M - Compound response manually integrated.

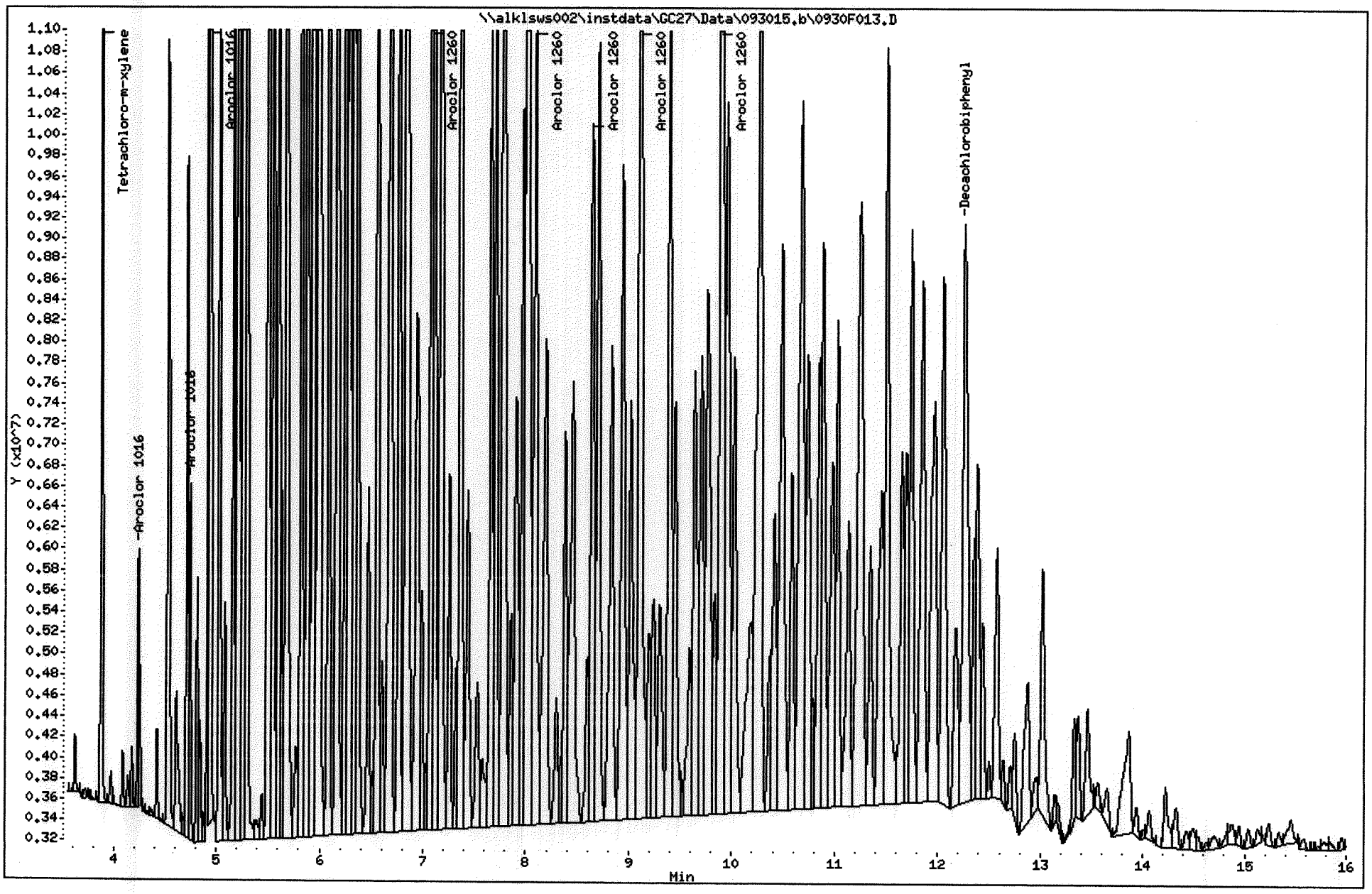
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Date : 30-SEP-2015 12:50
Client ID:
Sample Info: K1510507-001 DMS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32

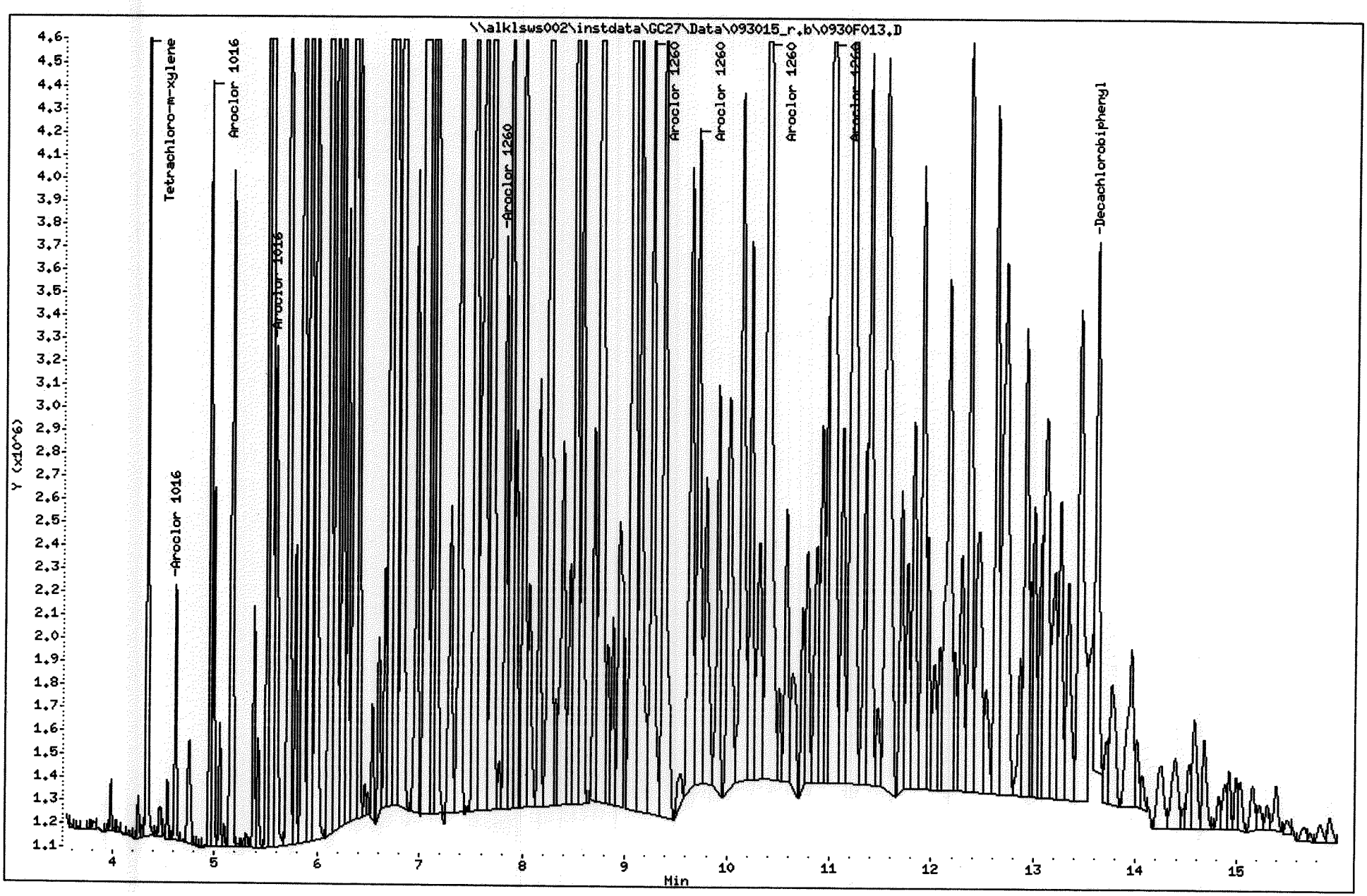


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Date : 30-SEP-2015 12:50
Client ID:
Sample Info: K1510507-001 DMS

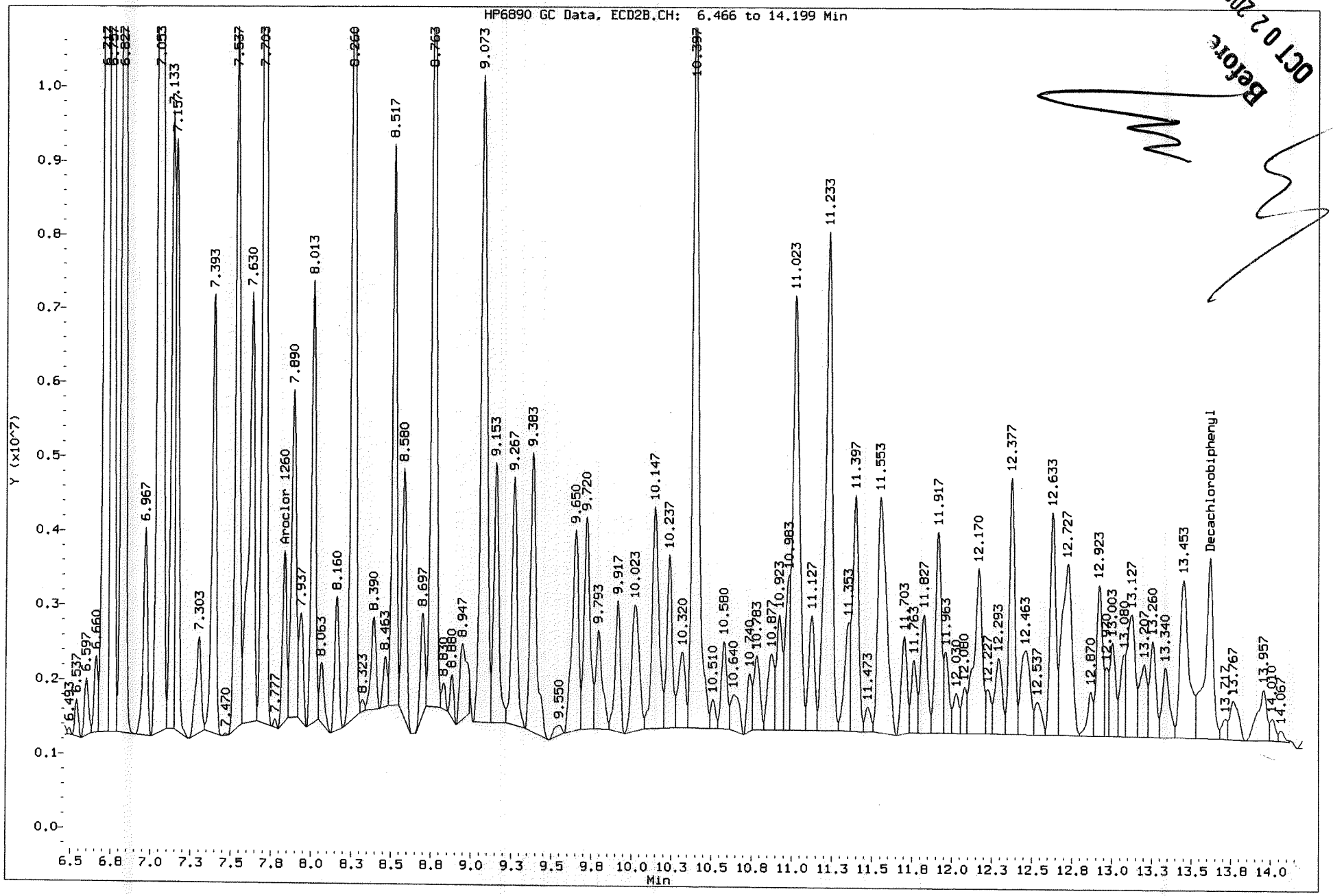
Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-XLB

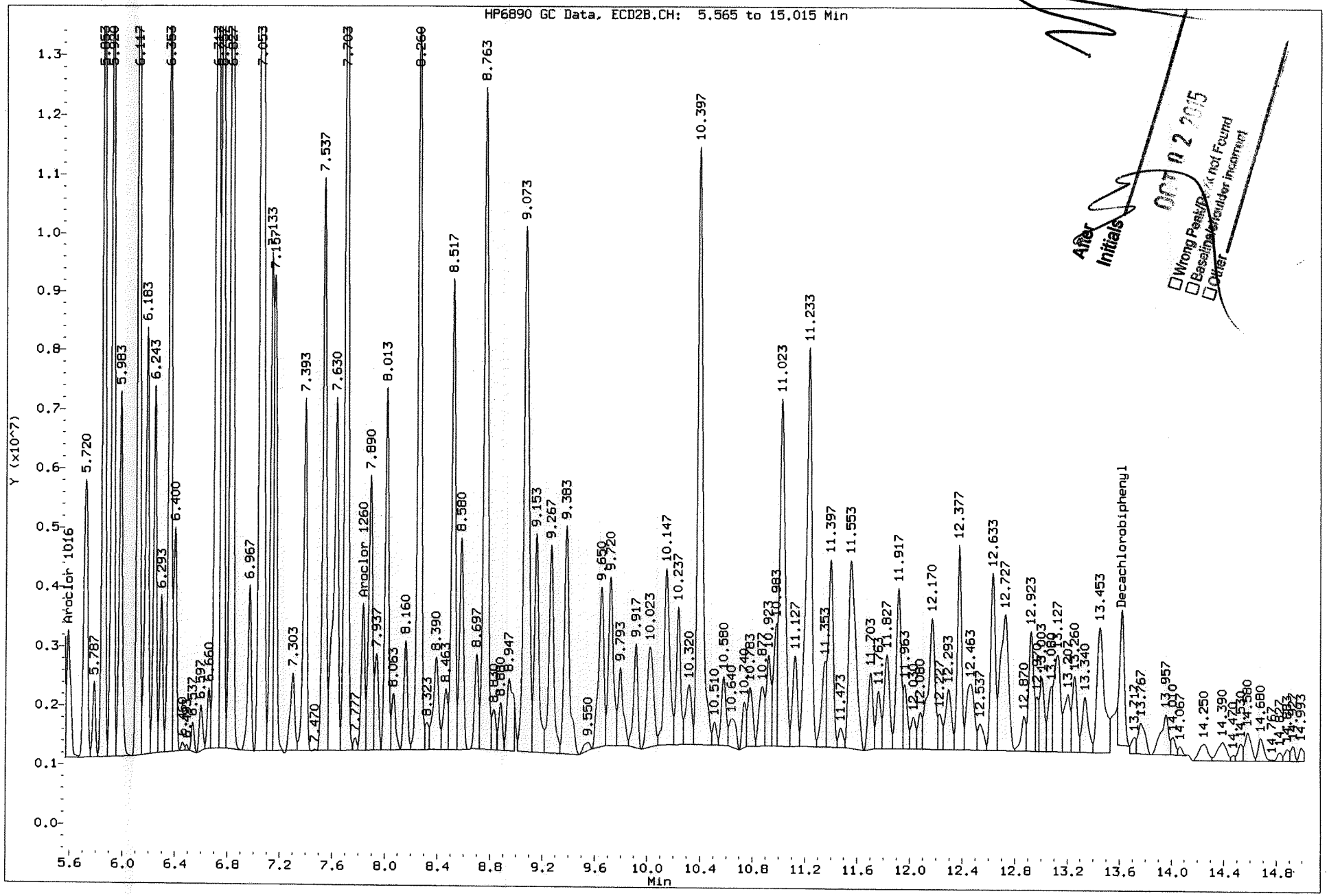


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:



Before
OCT 02 2015

Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:

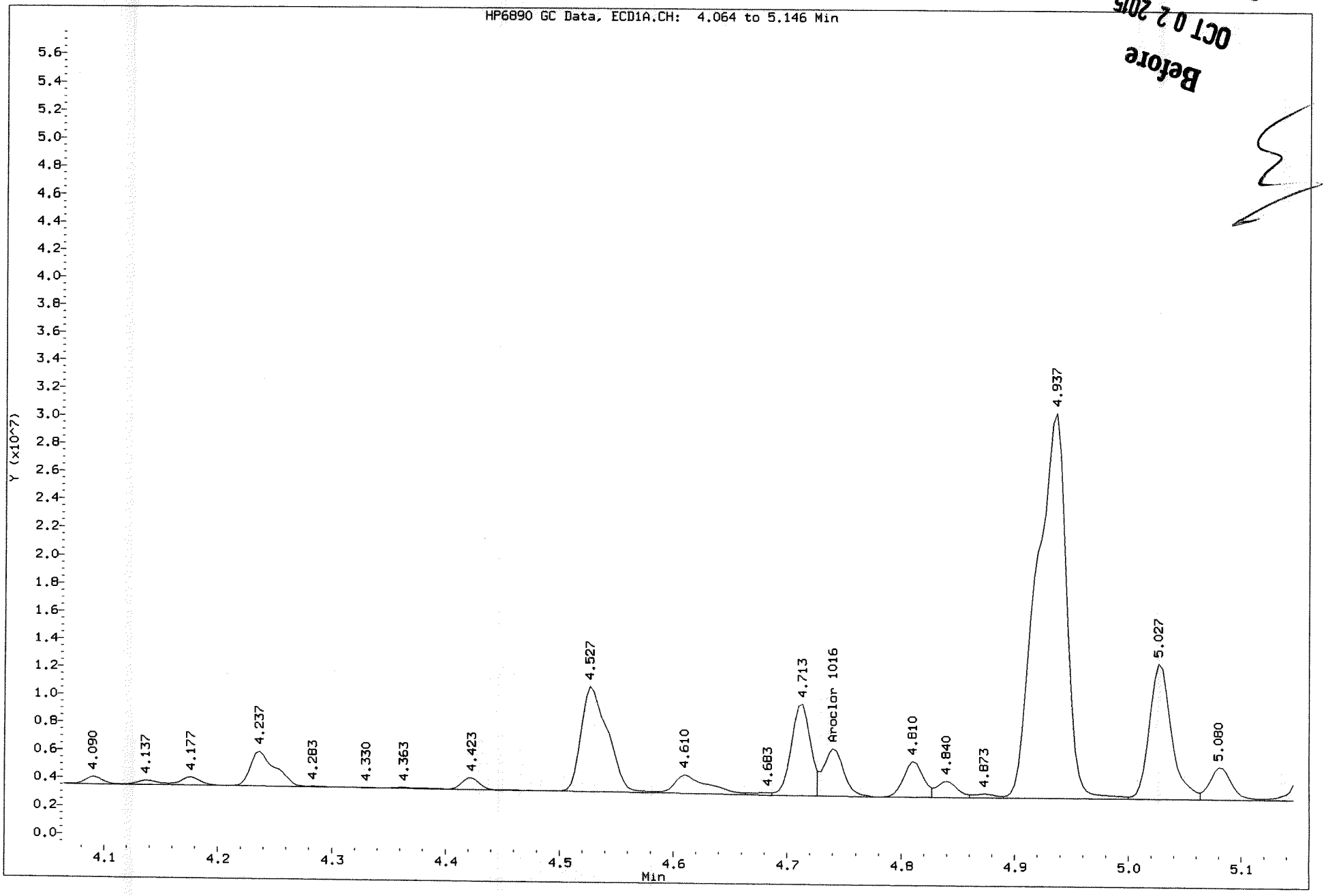


After Initials

OCT 02 2015

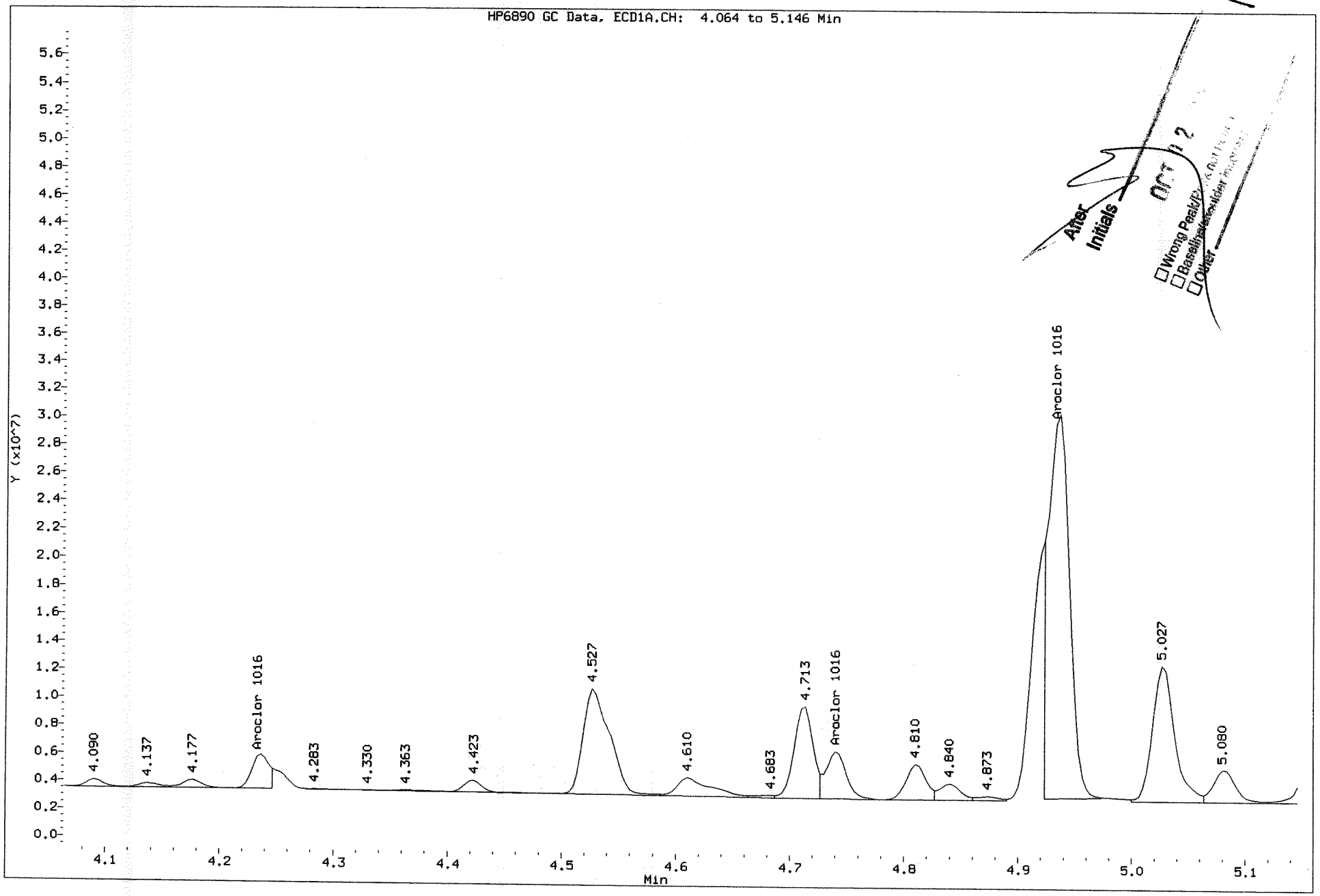
☐ Wrong Peak/Peak not Found
☐ Baseline/Integration incorrect
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:



Before
OCT 02 2015

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F005.D
Lab ID: KWG1509174-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/30/2015 09:40
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:31
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F005.D	**Date Acquired:**	09/30/2015 09:40
Lab ID:	KWG1509174-3	**Date Quantitated:**	10/02/2015 10:29
RunType:	LCS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:34
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469499	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	11978544	5271380	67.67	67.02			68	OK
					%Recovery =	68 OK	67 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	11025217	5599446	69.72	68.00			70	OK
					%Recovery =	70 OK	68 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	568.47	588.98	114	118	114
Aroclor 1016 {1}	4.24	+0.00	4.62	2223346m	1165553	619.49	634.10	124	127	
Aroclor 1016 {2}	4.74		4.95	1723677m	1458903	575.31	599.24	115	120	
Aroclor 1016 {3}	4.93	+0.00	5.59	5531520m	1686882	559.24	562.44	112	112	
Aroclor 1016 {4}	5.20	+0.00	5.92	2661170m	1252046	536.39	570.40	107	114	
Aroclor 1016 {5}	5.50	+0.00	6.11	2856997m	1247657	551.93	578.69	110	116	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			11365759	4888416	1,268	1,317	254J	263J	**254J**
Aroclor 1260			0	0	699.36	728.00	140	146	**140**
Aroclor 1260 {1}	7.07 +0.00	7.83	5542915	1418803	562.70	643.19	113	129	
Aroclor 1260 {2}	8.09 +0.00	9.26	5921864	2918389	729.85	772.09	146	154	
Aroclor 1260 {3}	8.64 +0.00	9.71	5947979	2643274	722.63	732.45	145	146	
Aroclor 1260 {4}	9.10 +0.00	10.39	13857332	6557507	737.14	759.46	147	152	
Aroclor 1260 {5}	9.89 +0.01	11.02	10561995	4093066	744.50	732.83	149	147	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D
Inj Date : 30-SEP-2015 09:40
Sample Info: KWG1509174-3 LCS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.877	4.337	11978544	5271380	67.7	67.0		100.00
Aroclor 1016	4.237	4.617	2223346	1165553	619	634	80.00- 120.00	100.00(M)
	4.737	4.951	1723677	1458903	575	599	63.77- 95.65	77.53(M)
	4.934	5.587	5531520	1686882	559	562	194.05- 291.08	394.40(M)
	5.204	5.917	2661170	1252046	536	570	100.33- 150.49	119.69(M)
	5.497	6.114	2856997	1247657	552	579	105.01- 157.51	128.50(M)
		Average of Peak Amounts =			568	589		
Aroclor 1260	7.071	7.827	5542915	1418803	563	643	80.00- 120.00	100.00
	8.087	9.264	5921864	2918389	730	772	69.66- 104.50	106.84
	8.641	9.711	5947979	2643274	723	732	70.04- 105.07	107.31
	9.104	10.391	13857332	6557507	737	759	163.82- 245.72	250.00
	9.891	11.024	10561995	4093066	745	733	134.64- 201.96	190.55
		Average of Peak Amounts =			700	728		
Decachlorobiphenyl	12.257	13.617	11025217	5599446	69.7	68.0		100.00
Aroclors, Total	0.000	0.000	11365759	4888416	1270	1320		0.00

QC Flag Legend

M - Compound response manually integrated.

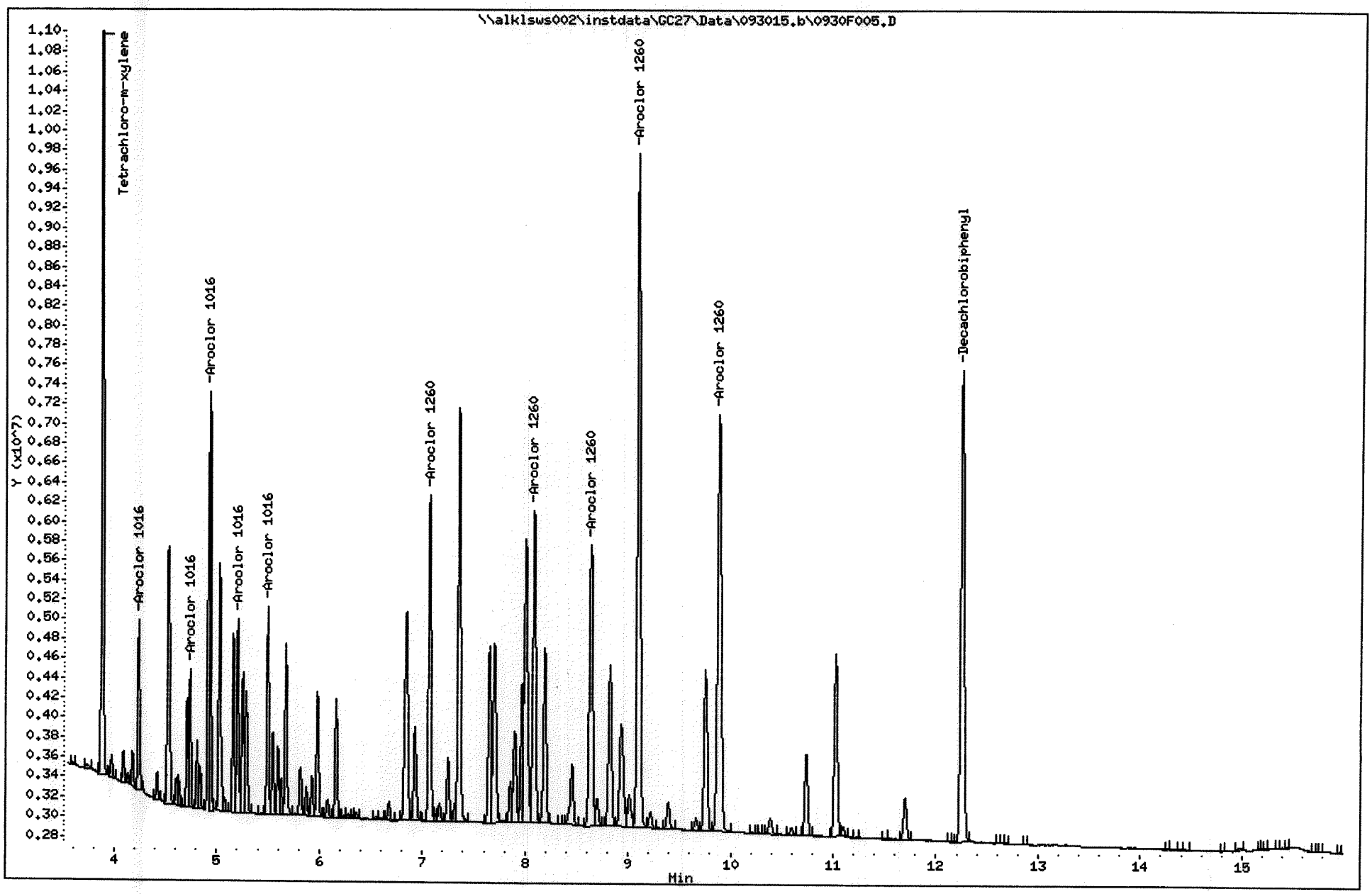
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Date : 30-SEP-2015 09:40
Client ID:
Sample Info: KWG1509174-3 LCS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



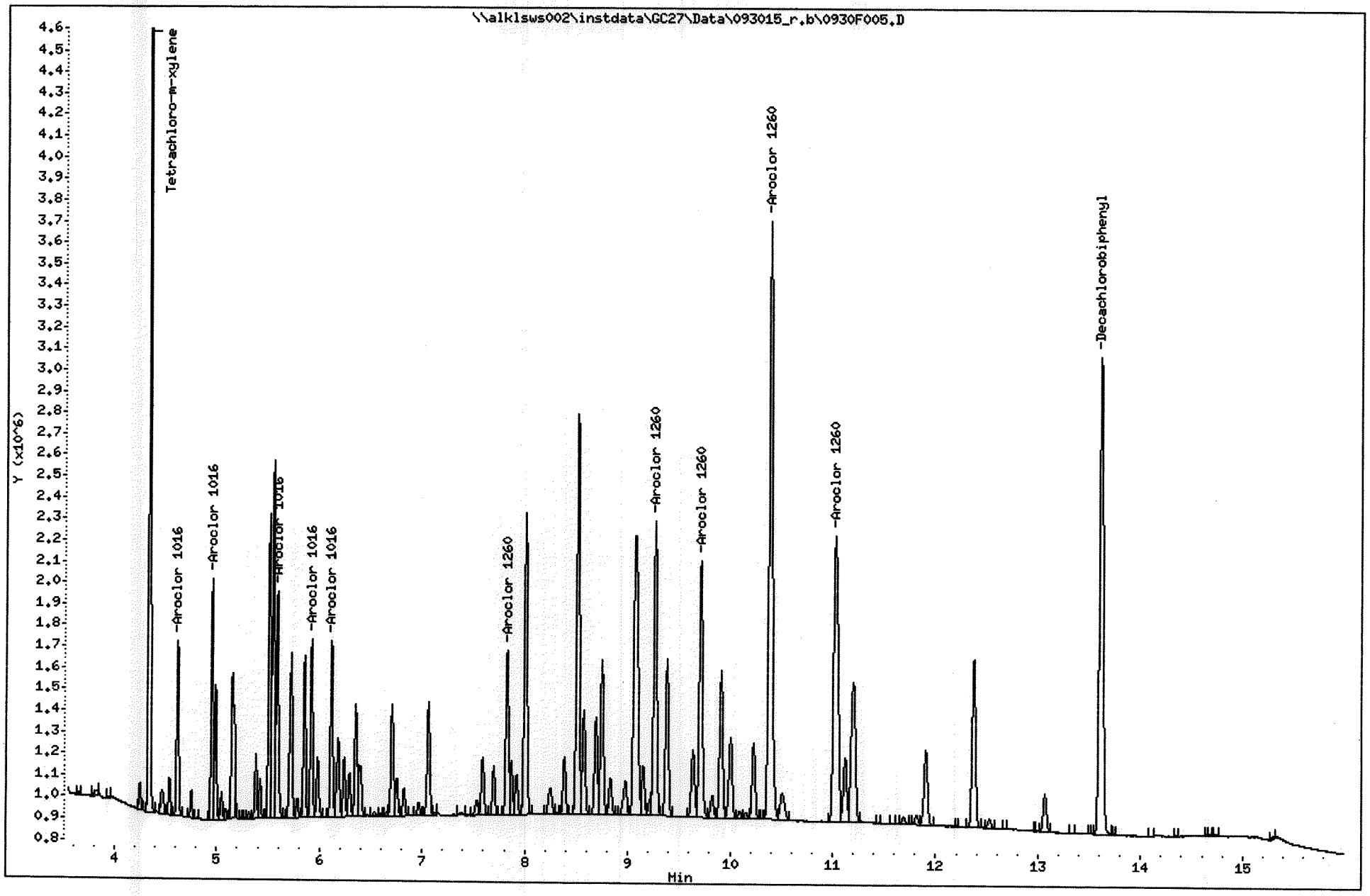
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D
Date : 30-SEP-2015 09:40
Client ID:
Sample Info: KWG1509174-3 LCS

Instrument: GC27.i

Operator: SMURRAY

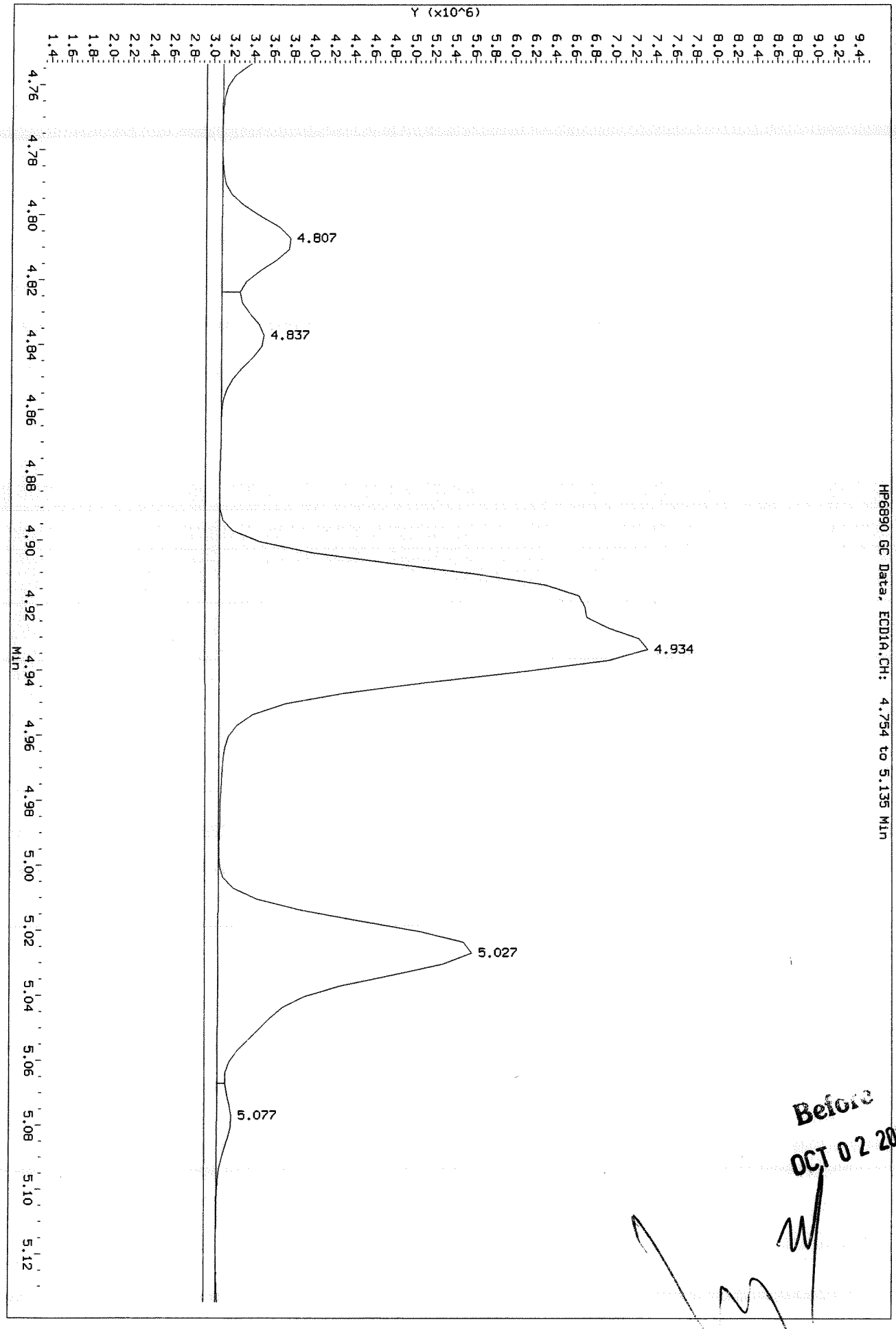
Column phase: DB-XLB

Column diameter: 0.32

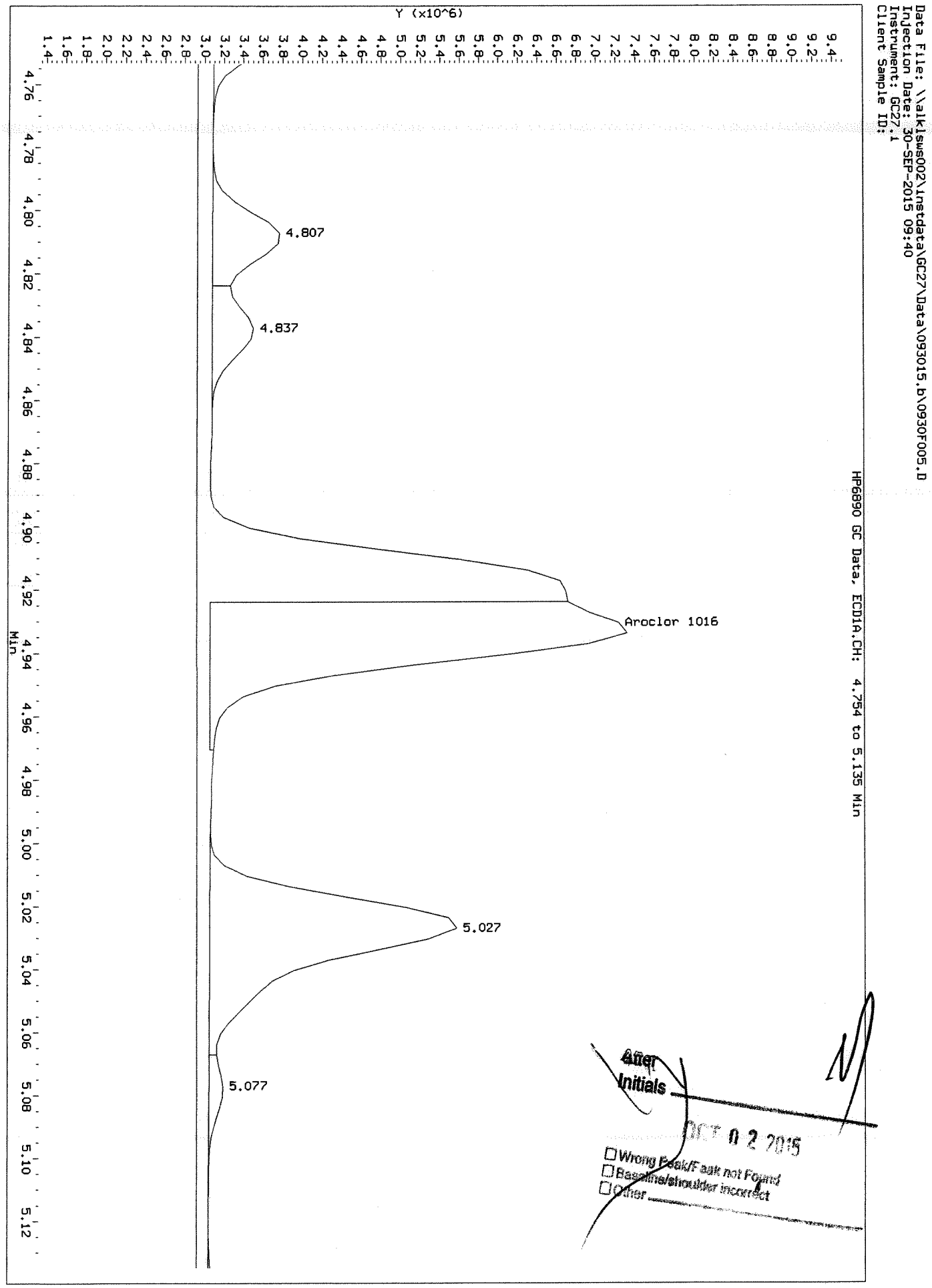


Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Injection Date: 30-SEP-2015 09:40
Instrument: GC27.1
Client Sample ID:

HP6890 GC Data, ECD1A.CH: 4.754 to 5.135 Min



Before
OCT 0 2 2015


Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Injection Date: 30-SEP-2015 09:40
Instrument: GC27.1
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 4.754 to 5.135 Min
Y (x10^6)
Min
4.807
4.837
Aroclor 1016
5.027
5.077
After
Initials
OCT 0 2 2015
Wrong Peak/Peak not Found
Baseline/shoulder incorrect
Other

Sequence Name: C:\GC27\SEQUENCE\093015.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\093015\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0930F001	PCB_REG	PRIMER
2	IB	100	0930F002	PCB_REG	PRIMER
3	CCV	95	0930F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	99	0930F004	PCB_REG	IB
5	LCS	1	0930F005	PCB_REG	KWG1509174-3 LCS
6	MB	2	0930F006	PCB_REG	KWG1509174-4 MB
7	SMPL	3	0930F007	PCB_REG	K1510324-001
8	SMPL	4	0930F008	PCB_REG	K1510448-004
9	SMPL	5	0930F009	PCB_REG	K1510448-005 - 10X
10	SMPL	6	0930F010	PCB_REG	K1510448-006
11	SMPL	7	0930F011	PCB_REG	K1510507-001] see 5X
12	MS	8	0930F012	PCB_REG	K1510507-001 MS
13	DMS	9	0930F013	PCB_REG	K1510507-001 DMS
14	CCV	95	0930F014	PCB_REG	1660 @ 500ppb PCB6-74E
15	IB	99	0930F015	PCB_REG	IB

Run# 464654
cal # 13694

Last Modified: Wed Sep 30 08:11:11 2015 Page: 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F003.D
Lab ID: KWG1509500-2
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 09/30/2015 08:52
Date Quantitated: 10/02/2015 10:40
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:33
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F003.D	**Date Acquired:**	09/30/2015 08:52
Lab ID:	KWG1509500-2	**Date Quantitated:**	10/02/2015 10:40
RunType:	CCV	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:36
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D			**Vial:**	95
Acqu Date:	09/30/2015 08:52	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	**Report Group:**
Analysis Method:	8082A	**Prep Method:**	
Prep Ref:		**Prep Date:**	

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.87	4.33	9719886	4038667	54.91	51.35			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.25	13.61	8731530	4304970	55.22	52.28			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	478.68	456.94			
Aroclor 1016 {1}	4.23	4.61	1785432m	873121	497.48	475.01			
Aroclor 1016 {2}	4.74	4.95	1495545m	1139717	499.17	468.14			
Aroclor 1016 {3}	4.93	5.58	4719469m	1332285	477.14	444.21			
Aroclor 1016 {4}	5.20	5.91	2300789m	990095	463.75	451.07			
Aroclor 1016 {5}	5.49	6.11	2359667m	962126	455.85	446.26			
Aroclor 1260			0	0	513.99	511.03			
Aroclor 1260 {1}	7.07	7.82	4690955	1077916	476.21	488.65			
Aroclor 1260 {2}	8.08	9.26	4204620	1937337	518.20	512.54			
Aroclor 1260 {3}	8.64	9.71	4260575	1857185	517.63	514.62			
Aroclor 1260 {4}	9.10	10.38	9736704	4438413	517.95	514.03			
Aroclor 1260 {5}	9.88	11.02	7660575	2933968	539.98	525.30			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Report Date: 02-Oct-2015 10:40

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D
Inj Date : 30-SEP-2015 08:52
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.874	4.334	9719886	4038667	54.9	51.3		100.00
Aroclor 1016	4.234	4.614	1785432	873121	497	475	80.00- 120.00	100.00(M)
	4.737	4.948	1495545	1139717	499	468	63.77- 95.65	83.76(M)
	4.931	5.584	4719469	1332285	477	444	194.05- 291.08	408.27(M)
	5.201	5.914	2300789	990095	464	451	100.33- 150.49	128.86(M)
	5.494	6.111	2359667	962126	456	446	105.01- 157.51	132.16(M)
		Average of Peak Amounts =			479	457		
Aroclor 1260	7.067	7.824	4690955	1077916	476	489	80.00- 120.00	100.00
	8.084	9.258	4204620	1937337	518	513	69.66- 104.50	89.63
	8.637	9.708	4260575	1857185	518	515	70.04- 105.07	90.83
	9.101	10.384	9736704	4438413	518	514	163.82- 245.72	207.56
	9.884	11.018	7660575	2933968	540	525	134.64- 201.96	163.31
		Average of Peak Amounts =			514	511		
Decachlorobiphenyl	12.251	13.611	8731530	4304970	55.2	52.3		100.00

QC Flag Legend

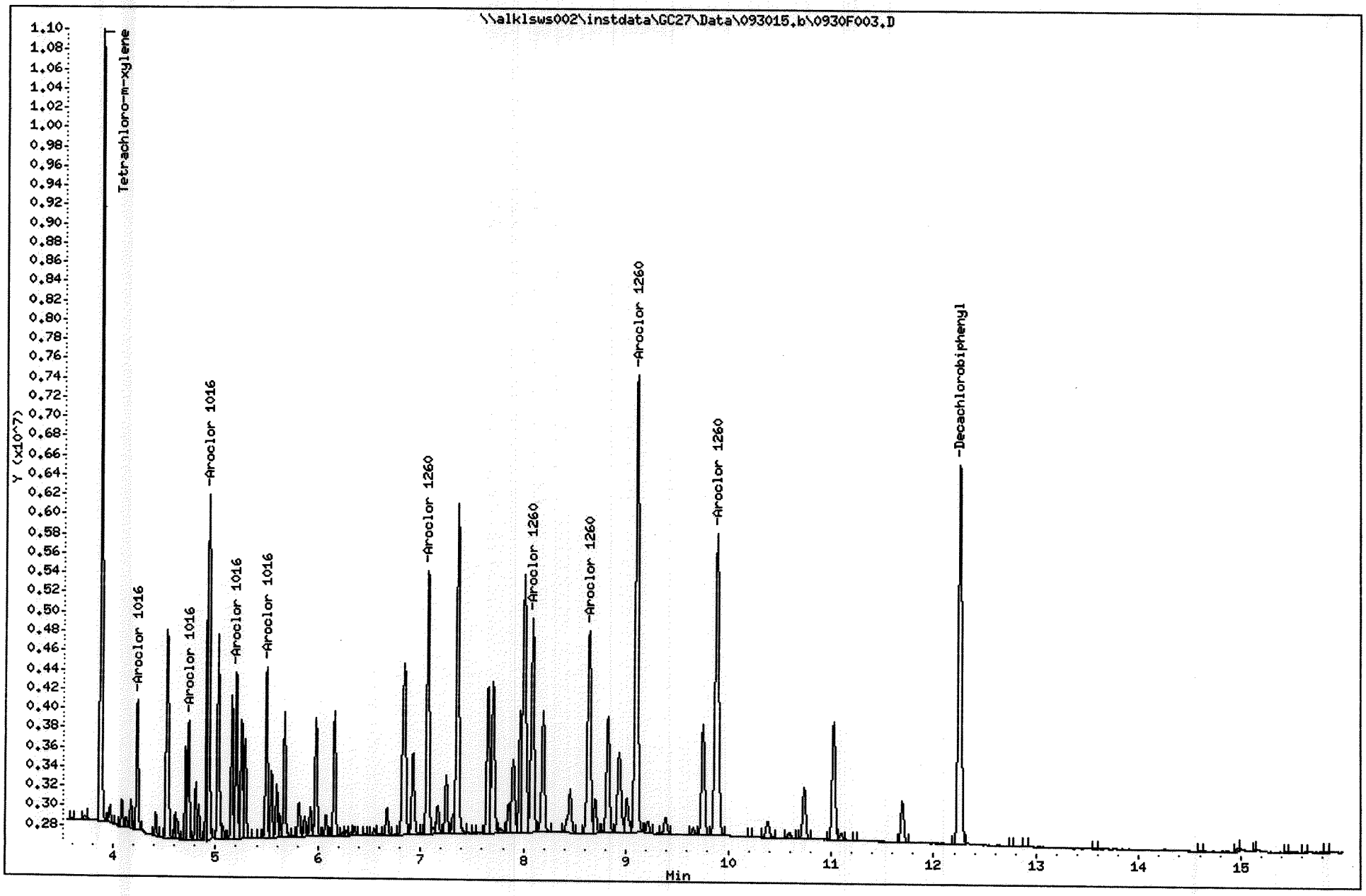
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Date : 30-SEP-2015 08:52
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

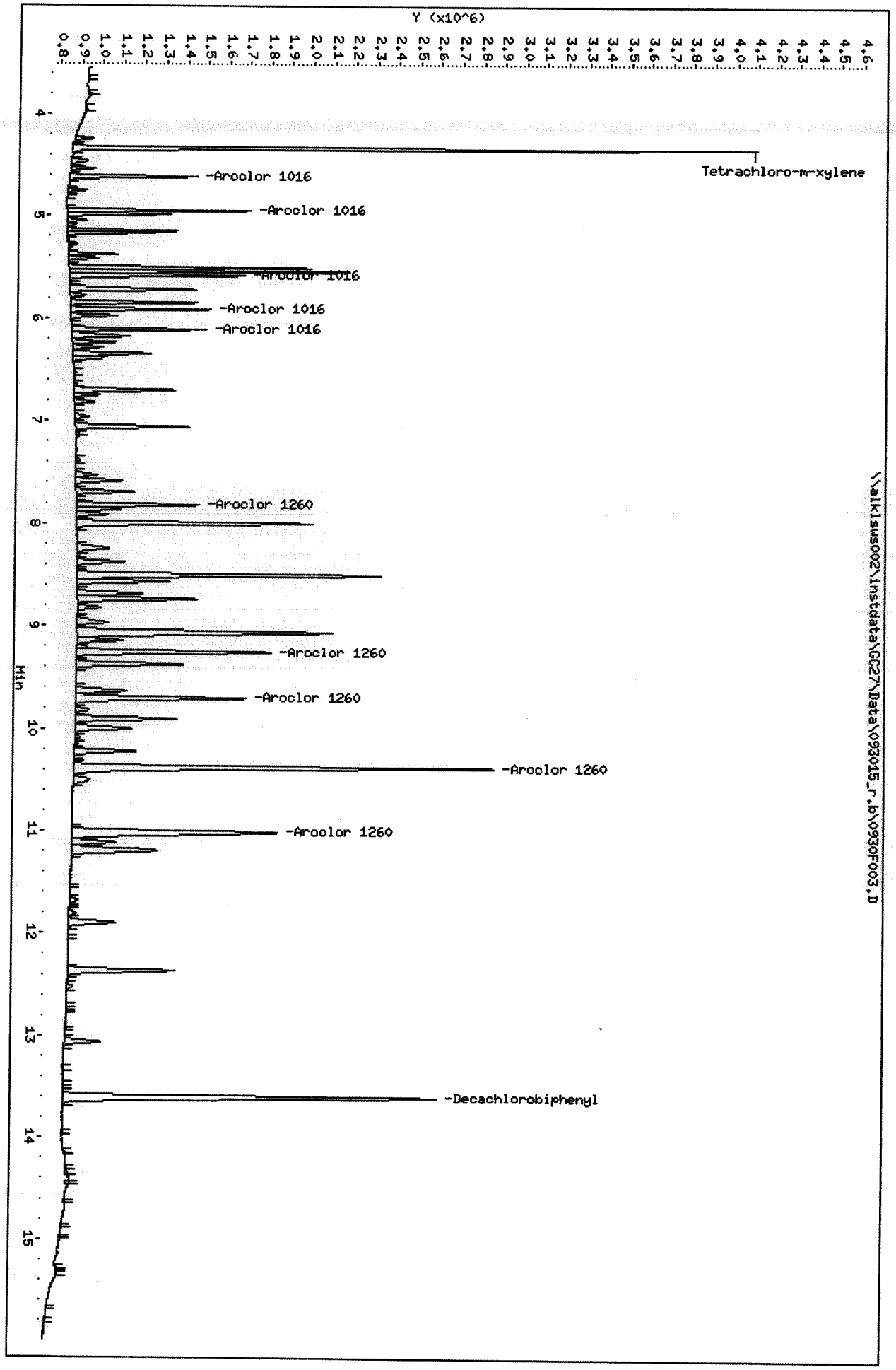


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D
Date : 30-SEP-2015 08:52
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F004.D
Lab ID: KWG1509500-1
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 09/30/2015 09:16
Date Quantitated: 10/02/2015 10:40
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:39
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F004.D	**Date Acquired:**	09/30/2015 09:16
Lab ID:	KWG1509500-1	**Date Quantitated:**	10/02/2015 10:40
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:42
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D			**Vial:**	99
Acqu Date:	09/30/2015 09:16	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	**Limits =**	10-135	
Decachlorobiphenyl	12.27	13.61	17074	3211	0.1080	0.0390			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D			**Vial:**	99
Acqu Date:	09/30/2015 09:16	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	2.31	0.0000			
Aroclor 1254 {1}	6.24		8470	0	2.18	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}	6.83		71562	0	4.89	0.0000			
Aroclor 1254 {4}	7.16		8515	0	0.8900	0.0000			
Aroclor 1254 {5}	7.82		8054	0	1.27	0.0000			
Aroclors, Total			61169	0	4.65	0.0000	J	J	
Aroclor 1260			0	0	1.27	0.0000			
Aroclor 1260 {1}	7.07		19266	0	1.96	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}	8.61		12109	0	1.47	0.0000			
Aroclor 1260 {4}	9.11		20387	0	1.08	0.0000			
Aroclor 1260 {5}	9.88		8238	0	0.5810	0.0000			
Aroclor 1262			0	0	0.7953	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}	8.61		12109	0	1.03	0.0000			
Aroclor 1262 {3}	9.11		20387	0	0.8830	0.0000			
Aroclor 1262 {4}	9.88		8238	0	0.4750	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.2767	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}	9.88		8238	0	0.3230	0.0000			
Aroclor 1268 {3}	10.38		7941	0	0.3610	0.0000			
Aroclor 1268 {4}	11.69		9144	0	0.1460	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Report Date: 02-Oct-2015 10:40

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D
Inj Date : 30-SEP-2015 09:16
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.238	0.000	8470	0	2.18	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	1017.66-1526.49	0.00(T)
	6.825	0.000	71562	0	4.89	0.000	9646.23-14469.35	844.89(T)
	7.158	0.000	8515	0	0.890	0.000	1126.72-1690.08	100.53(T)
	7.818	0.000	8054	0	1.27	0.000	281.12- 421.67	95.09(T)
		Average of Peak Amounts =			2.31	0.000		
Aroclor 1260	7.068	0.000	19266	0	1.96	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	69.66- 104.50	0.00(T)
	8.611	0.000	12109	0	1.47	0.000	70.04- 105.07	62.85(T)
	9.105	0.000	20387	0	1.08	0.000	163.82- 245.72	105.82(T)
	9.881	0.000	8238	0	0.581	0.000	134.64- 201.96	42.76(T)
		Average of Peak Amounts =			1.27	0.000		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	8.611	0.000	12109	0	1.03	0.000	81.49- 122.24	0.00(T)
	9.105	0.000	20387	0	0.883	0.000	185.52- 278.29	0.00(T)
	9.881	0.000	8238	0	0.475	0.000	145.56- 218.35	0.00(T)
	0.000	0.000	0	0	0.000	0.000	49.79- 74.69	0.00(T)
		Average of Peak Amounts =			0.796	0.000		
Aroclor 1268	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	9.881	0.000	8238	0	0.323	0.000	261.97- 392.95	0.00(T)
	10.378	0.000	7941	0	0.361	0.000	12.86- 19.30	0.00(T)
	11.685	0.000	9144	0	0.146	0.000	30.73- 46.09	0.00(T)
		Average of Peak Amounts =			0.277	0.000		
Decachlorobiphenyl	12.265	13.605	17074	3211	0.108	0.0390		100.00
Aroclors, Total	0.000	0.000	61169	0	4.65	0.000		0.00

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Report Date: 02-Oct-2015 10:40

QC Flag Legend

T - Target compound detected outside RT window.

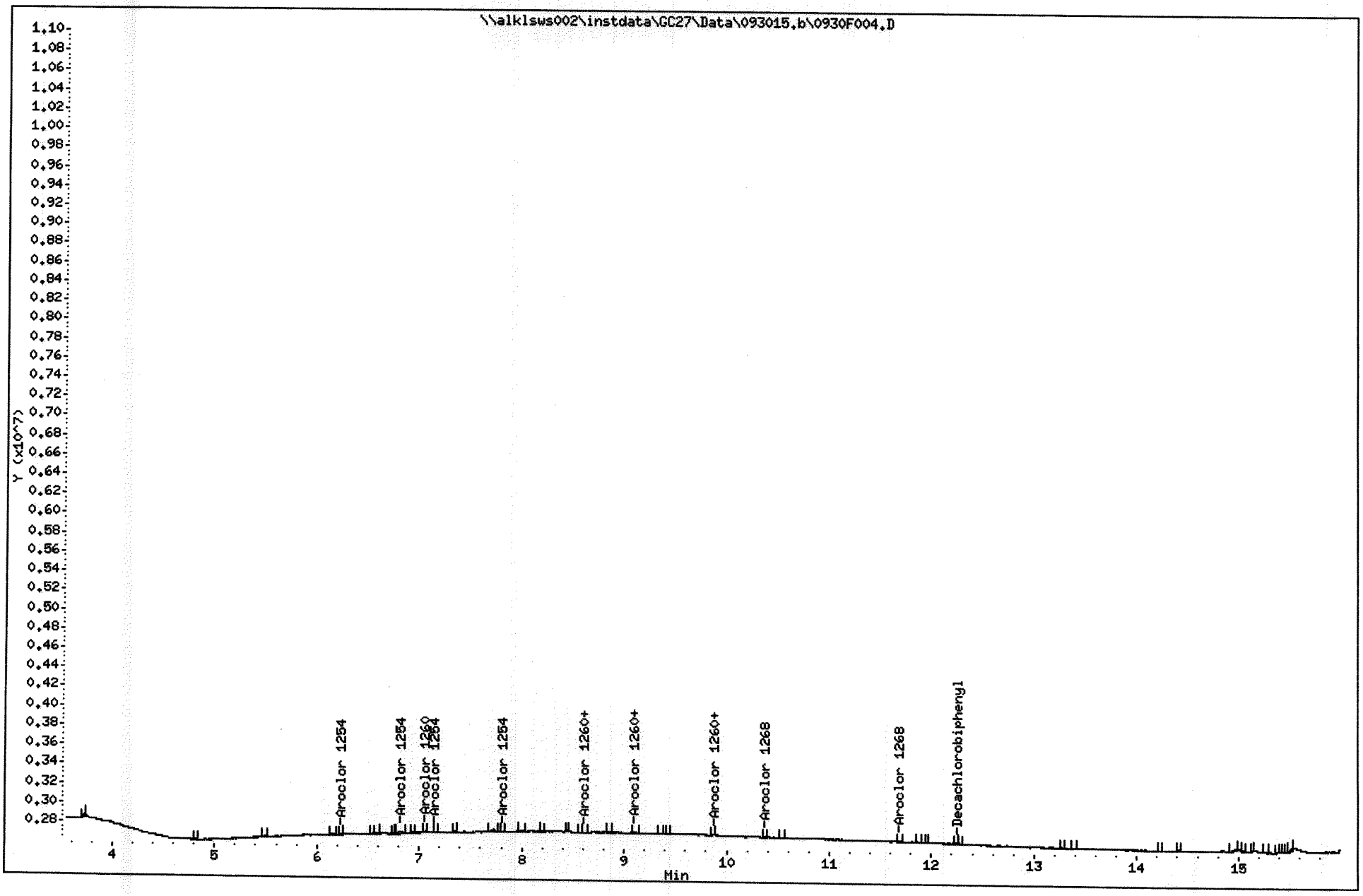
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Date : 30-SEP-2015 09:16
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

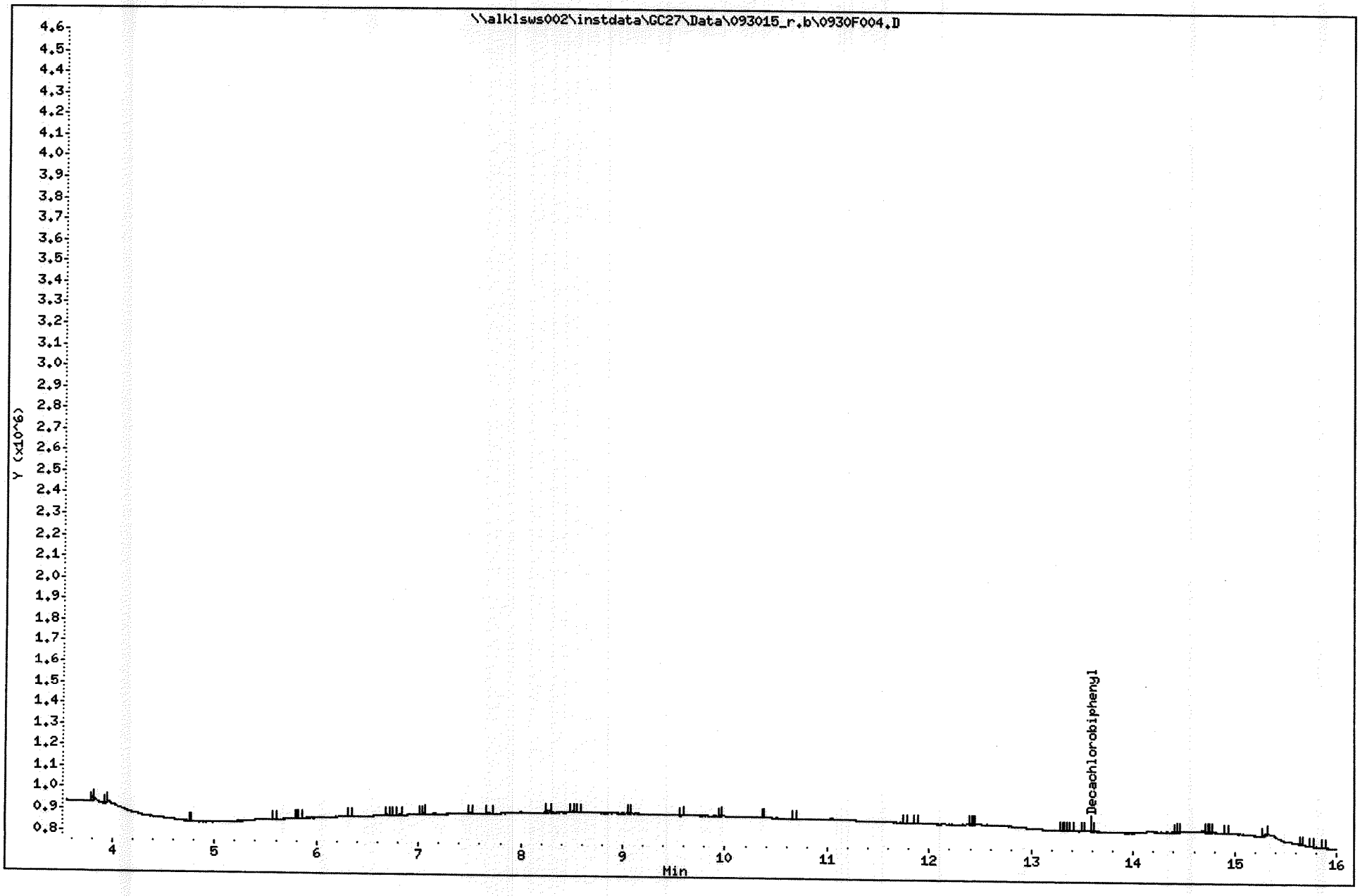


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D
Date : 30-SEP-2015 09:16
Client ID:
Sample Info: IB

Instrument: GC27.i

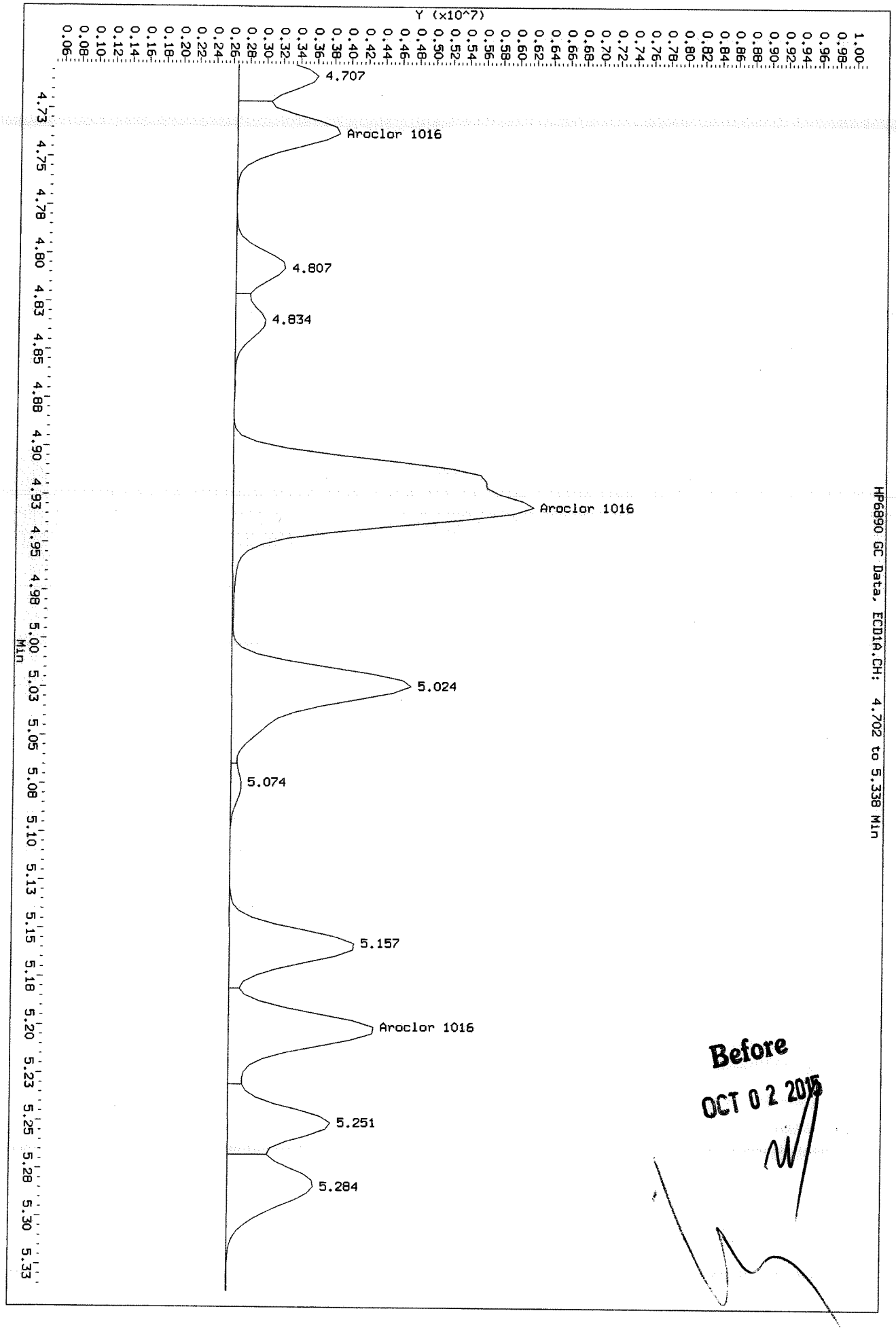
Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-XLB



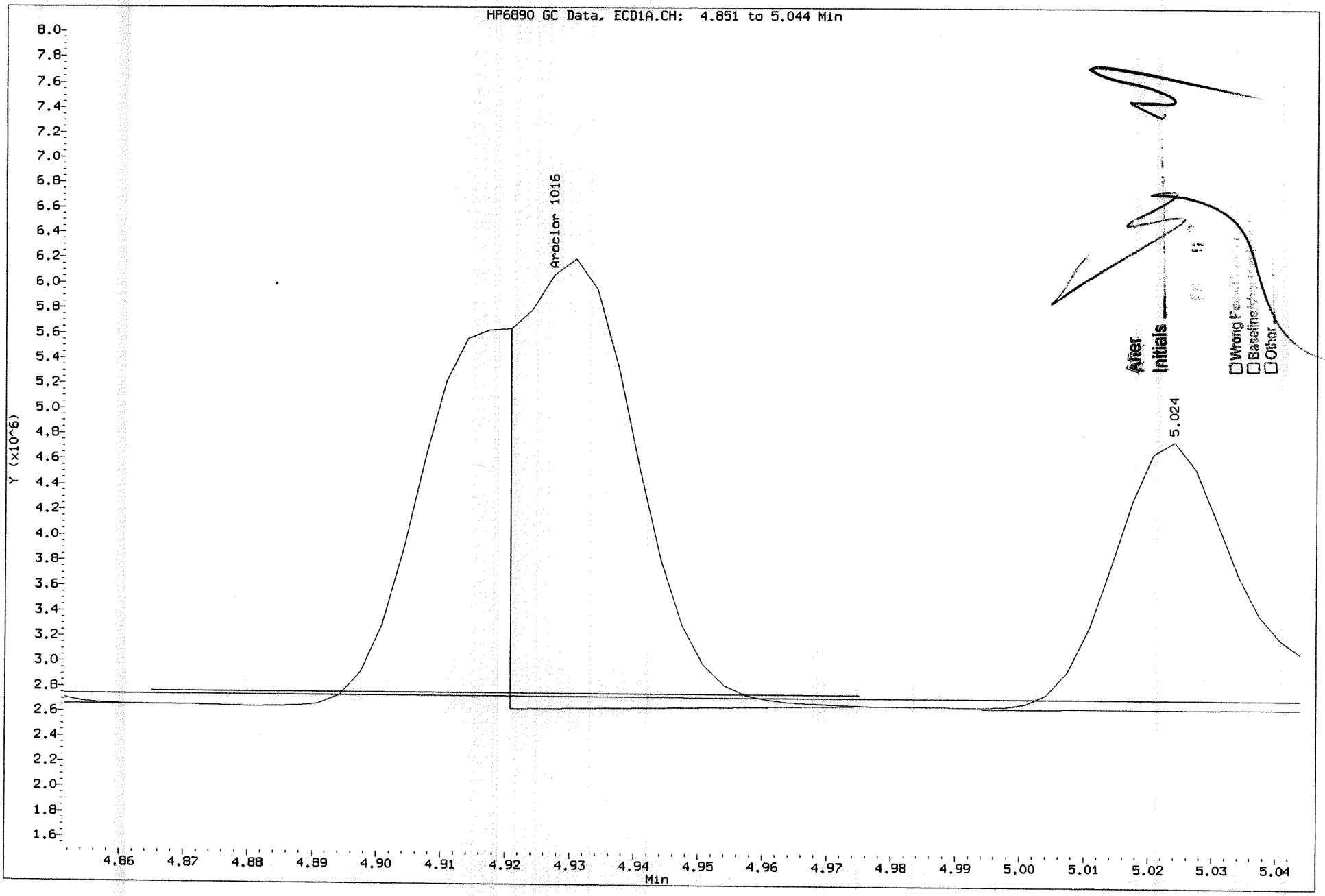
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Injection Date: 30-SEP-2015 08:52
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD1A.CH: 4.702 to 5.338 Min



Before
OCT 02 2015

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Injection Date: 30-SEP-2015 08:52
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F014.D
Lab ID: KWG1509500-4
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 09/30/2015 13:13
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	DR

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:07
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F014.D
Lab ID: KWG1509500-4
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 09/30/2015 13:13
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:10
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D			**Vial:**	95
Acqu Date:	09/30/2015 13:13	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9270554	4127253	52.37	52.47			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.62	8135630	4209943	51.45	51.12			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	441.95	451.05			
Aroclor 1016 {1}	4.24	4.62	1704705	844702	474.98	459.55			
Aroclor 1016 {2}	4.74	4.95	1358853	1134451	453.54	465.97			
Aroclor 1016 {3}	4.94	5.59	4135032	1302826	418.06	434.39			
Aroclor 1016 {4}	5.21	5.92	2137887	980585	430.91	446.73			
Aroclor 1016 {5}	5.50	6.12	2237585	967157	432.27	448.59			
Aroclor 1260			0	0	482.93	498.58			
Aroclor 1260 {1}	7.08	7.83	4448746	1050439	451.62	476.20			
Aroclor 1260 {2}	8.09	9.27	3873970	1889157	477.45	499.80			
Aroclor 1260 {3}	8.65	9.72	3895120	1797911	473.23	498.20			
Aroclor 1260 {4}	9.11	10.39	9109653	4332897	484.59	501.81			
Aroclor 1260 {5}	9.90	11.03	7487152	2886886	527.76	516.87			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D
Inj Date : 30-SEP-2015 13:13
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

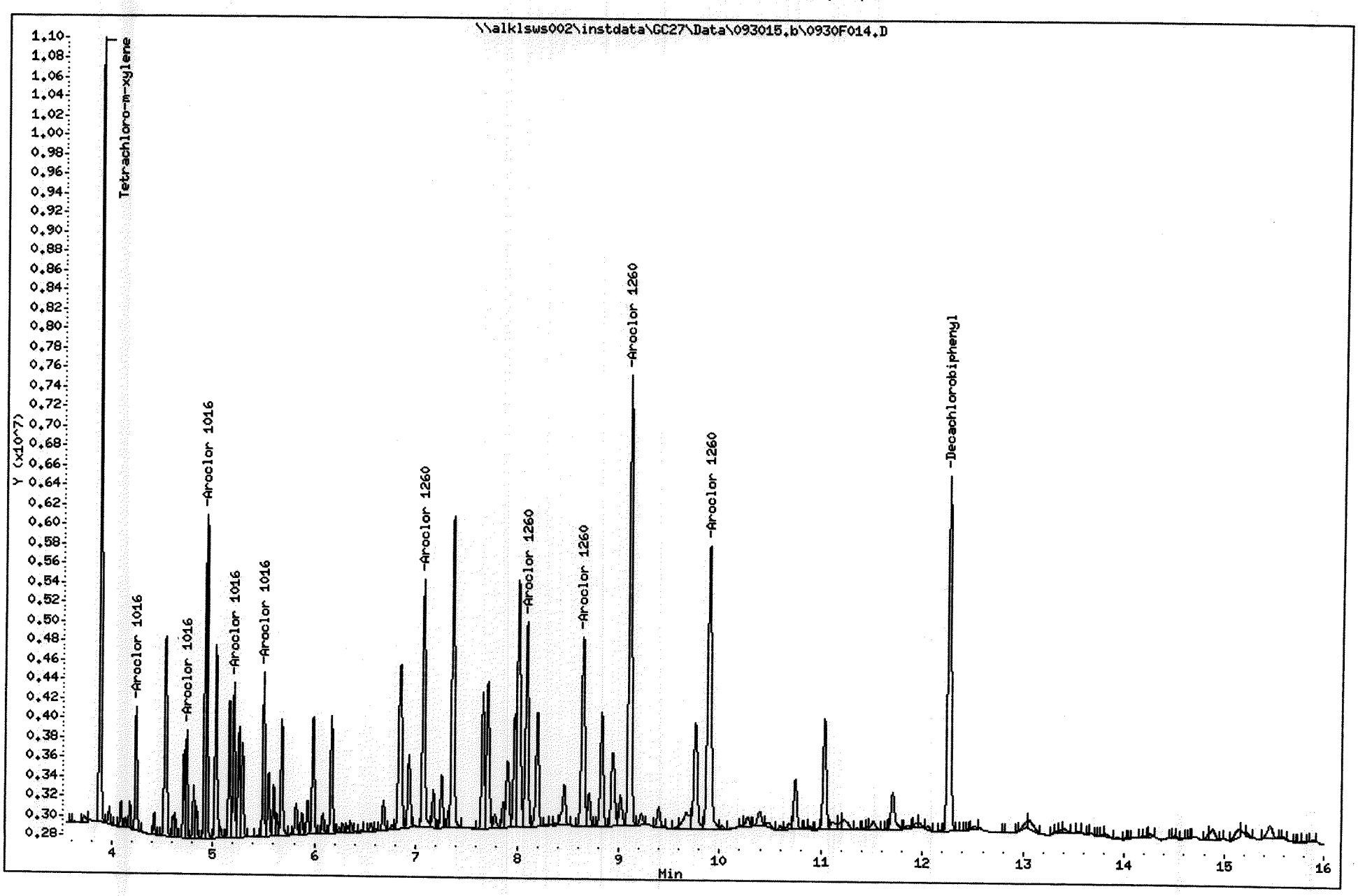
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.340	9270554	4127253	52.4	52.5		100.00
Aroclor 1016	4.236	4.620	1704705	844702	475	460	80.00- 120.00	100.00
	4.743	4.953	1358853	1134451	454	466	63.77- 95.65	79.71
	4.936	5.590	4135032	1302826	418	434	194.05- 291.08	242.57
	5.209	5.920	2137887	980585	431	447	100.33- 150.49	125.41
	5.499	6.116	2237585	967157	432	449	105.01- 157.51	131.26
		Average of Peak Amounts =			442	451		
Aroclor 1260	7.076	7.830	4448746	1050439	452	476	80.00- 120.00	100.00
	8.093	9.270	3873970	1889157	477	500	69.66- 104.50	87.08
	8.646	9.716	3895120	1797911	473	498	70.04- 105.07	87.56
	9.109	10.393	9109653	4332897	485	502	163.82- 245.72	204.77
	9.896	11.026	7487152	2886886	528	517	134.64- 201.96	168.30
		Average of Peak Amounts =			483	499		
Decachlorobiphenyl	12.263	13.623	8135630	4209943	51.4	51.1		100.00

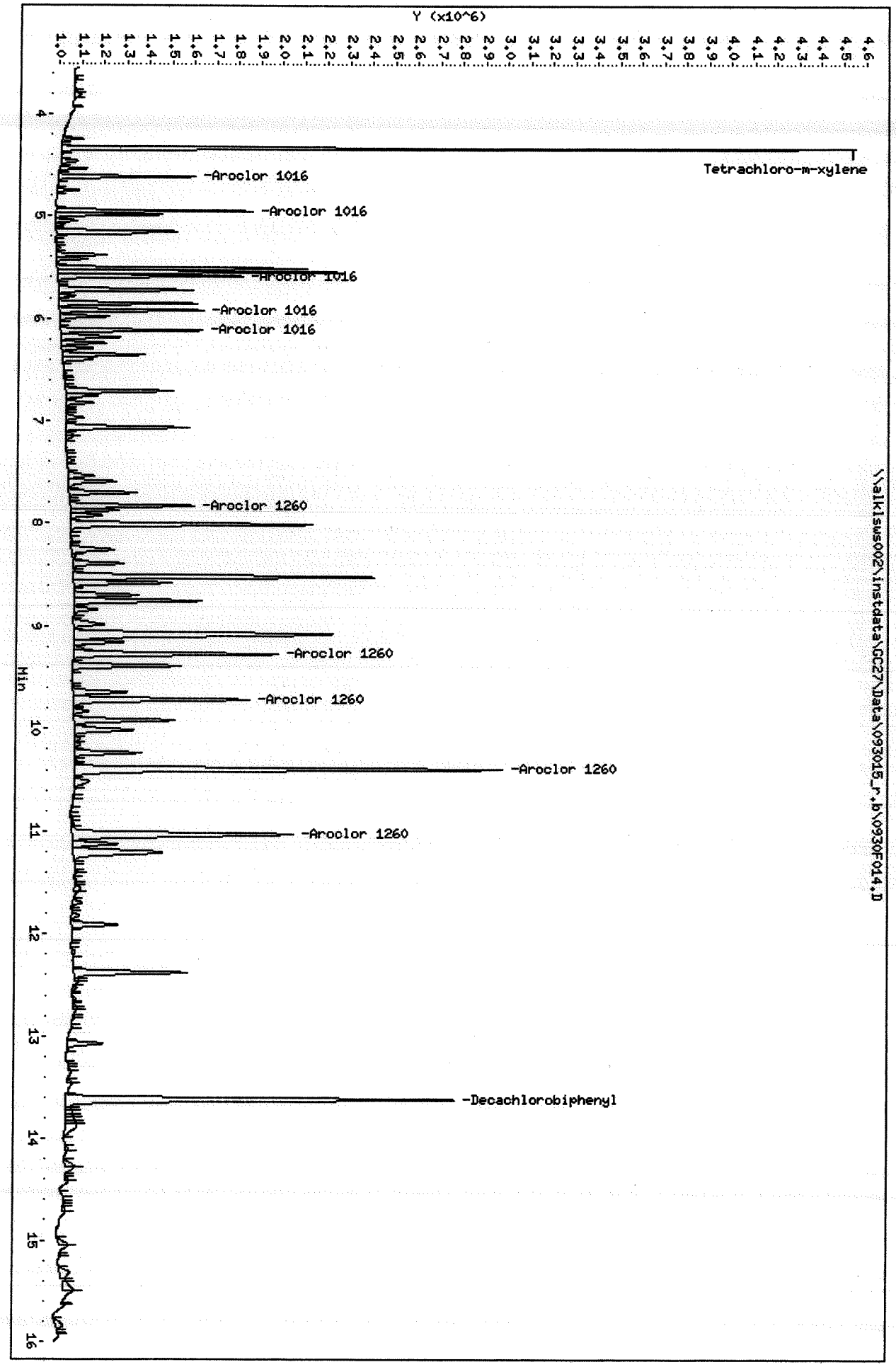
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Date : 30-SEP-2015 13:13
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D
Date : 30-SEP-2015 13:13
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E
Column phase: DB-XLB
Instrument: GC27.i
Operator: SMURRAY
Column diameter: 0.32
\\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D
Y (x10^6)
Min
Tetrachloro-m-xylene
-Aroclor 1016
-Aroclor 1016
-Aroclor 1016
-Aroclor 1016
-Aroclor 1016
-Aroclor 1260
-Aroclor 1260
-Aroclor 1260
-Aroclor 1260
-Aroclor 1260
-Decachlorobiphenyl

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F015.D	**Date Acquired:**	09/30/2015 13:37
Lab ID:	KWG1509500-3	**Date Quantitated:**	10/02/2015 10:30
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:13
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F015.D	**Date Acquired:**	09/30/2015 13:37
Lab ID:	KWG1509500-3	**Date Quantitated:**	10/02/2015 10:30
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	JGW

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:16
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D			**Vial:**	99
Acqu Date:	09/30/2015 13:37	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0d	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00	13.61	0d	6720		0.0820			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0d	0.0000	0.0000			
Aroclor 1016 {2}			0d	0d	0.0000	0.0000			
Aroclor 1016 {3}			0d	0d	0.0000	0.0000			
Aroclor 1016 {4}			0d	0d	0.0000	0.0000			
Aroclor 1016 {5}			0d	0d	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0d	0.0000	0.0000			
Aroclor 1232 {2}			0	0d	0.0000	0.0000			
Aroclor 1232 {3}			0	0d	0.0000	0.0000			
Aroclor 1232 {4}			0	0d	0.0000	0.0000			
Aroclor 1232 {5}			0	0d	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D			**Vial:**	99
Acqu Date:	09/30/2015 13:37	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000			
Aroclor 1242 {2}			0d	0d	0.0000	0.0000			
Aroclor 1242 {3}			0d	0d	0.0000	0.0000			
Aroclor 1242 {4}			0d	0d	0.0000	0.0000			
Aroclor 1242 {5}			0d	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0d	0.0000	0.0000			
Aroclor 1260 {2}			0d	0d	0.0000	0.0000			
Aroclor 1260 {3}			0d	0d	0.0000	0.0000			
Aroclor 1260 {4}			0d	0d	0.0000	0.0000			
Aroclor 1260 {5}			0d	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0d	0.0000	0.0000			
Aroclor 1262 {2}			0d	0d	0.0000	0.0000			
Aroclor 1262 {3}			0d	0d	0.0000	0.0000			
Aroclor 1262 {4}			0d	0d	0.0000	0.0000			
Aroclor 1262 {5}			0d	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0d	0	0.0000	0.0000			
Aroclor 1268 {2}			0d	0	0.0000	0.0000			
Aroclor 1268 {3}			0d	0	0.0000	0.0000			
Aroclor 1268 {4}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D
Inj Date : 30-SEP-2015 13:37
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	0.000	13.612	0	6720	0.000	0.0816		

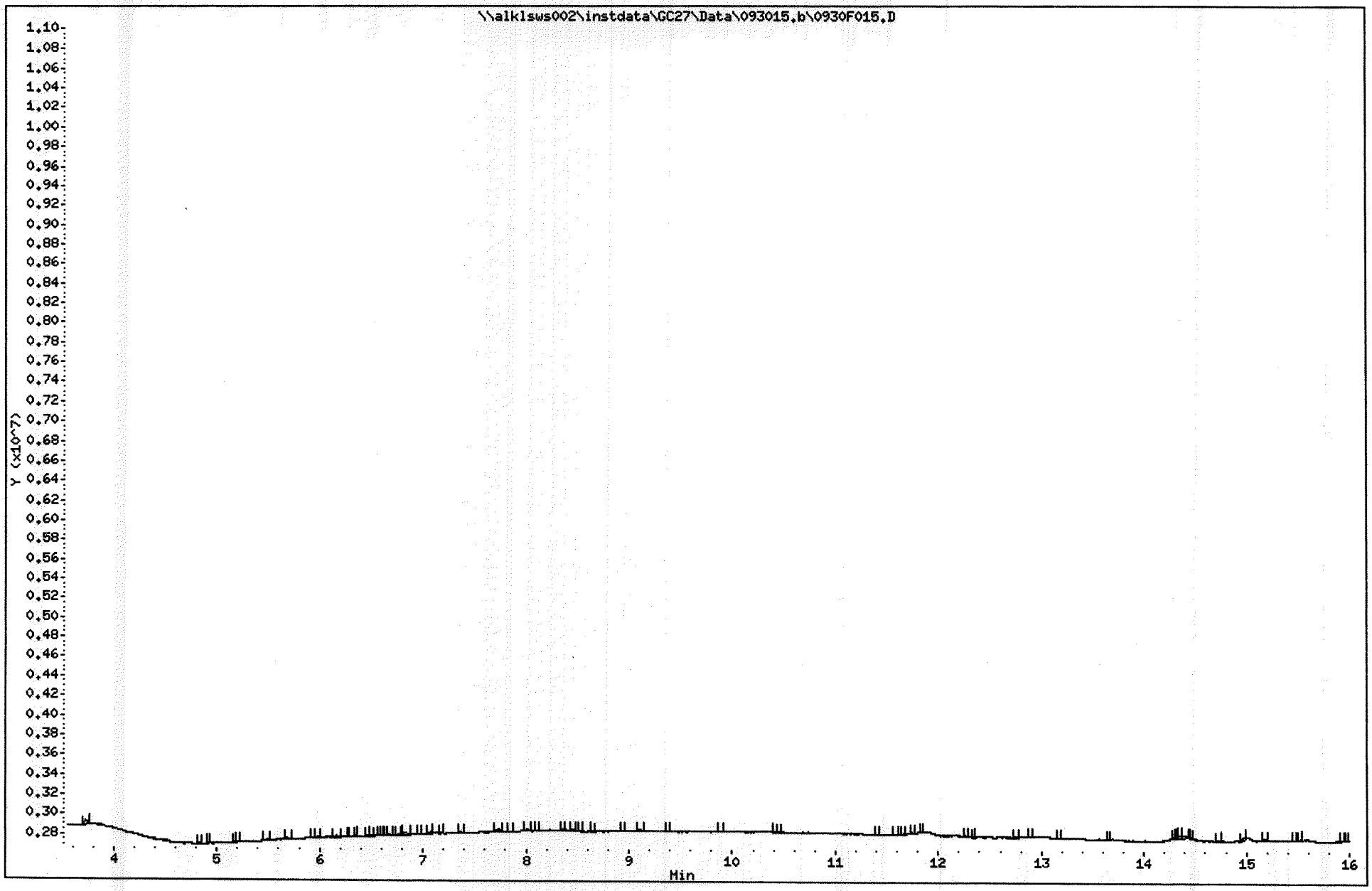
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Date : 30-SEP-2015 13:37
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



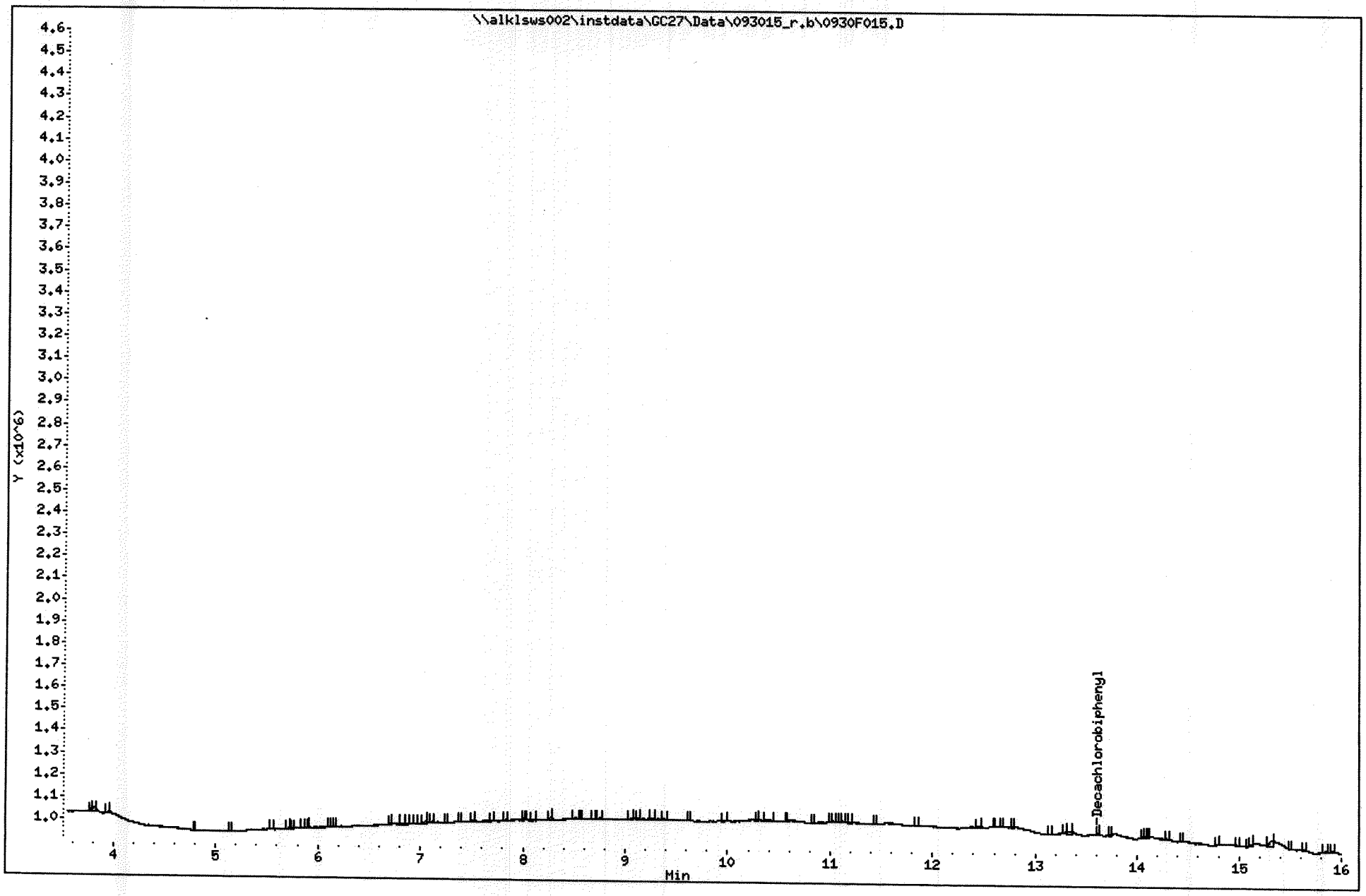
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D
Date : 30-SEP-2015 13:37
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\100115.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\100115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	1001F001	PCB_REG	PRIMER
2	IB	100	1001F002	PCB_REG	PRIMER
3	CCV	95	1001F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	100	1001F004	PCB_REG	IB
5	SMPL	1	1001F005	PCB_REG	K1510448-006 5X
6	SMPL	2	1001F006	PCB_REG	K1510507-001 5X
7	CCV	95	1001F007	PCB_REG	1660 @ 500ppb PCB6-74E
8	IB	100	1001F008	PCB_REG	IB
9	IB	100	1001F009	PCB_REG	PRIMER
10	IB	100	1001F010	PCB_REG	PRIMER
11	SMPL	3	1001F011	PCB_REG	T1501618-001
12	MS	4	1001F012	PCB_REG	T1501618-001MS
13	DMS	5	1001F013	PCB_REG	T1501618-001DMS
14	LCS	6	1001F014	PCB_REG	KWG1509352-LCS
15	MB	7	1001F015	PCB_REG	KWG1509352-MB
16	CCV	95	1001F016	PCB_REG	1660 @ 500ppb PCB6-74E
17	IB	100	1001F017	PCB_REG	IB

CN: 13621
RUN: 5021

Last Modified: Thu Oct 01 14:57:44 2015

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F003.D	**Date Acquired:**	10/01/2015 10:10
Lab ID:	KWG1509486-2	**Date Quantitated:**	10/01/2015 18:21
RunType:	CCV	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:06
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F003.D	**Date Acquired:**	10/01/2015 10:10
Lab ID:	KWG1509486-2	**Date Quantitated:**	10/01/2015 18:21
RunType:	CCV	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	NA

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:09
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D			**Vial:**	95
Acqu Date:	10/01/2015 10:10	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9670855	3996154	54.63	50.81			NA
				%Recovery =	NA	NA	Limits =	20-123	
Decachlorobiphenyl	12.25	13.61	8718067	4306330	55.13	52.29			NA
				%Recovery =	NA	NA	Limits =	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	478.57	454.08			
Aroclor 1016 {1}	4.24	4.62	1865899m	873868	519.90	475.42			
Aroclor 1016 {2}	4.74	4.95	1456739m	1122372	486.21	461.01			
Aroclor 1016 {3}	4.93	5.58	4564374m	1308706	461.46	436.35			
Aroclor 1016 {4}	5.20	5.92	2291599m	985704	461.90	449.07			
Aroclor 1016 {5}	5.50	6.11	2398600m	967123	463.37	448.57			
Aroclor 1260			0	0	512.38	511.33			
Aroclor 1260 {1}	7.07	7.83	4681208	1081360	475.22	490.22			
Aroclor 1260 {2}	8.09	9.26	4181945	1946552	515.41	514.98			
Aroclor 1260 {3}	8.64	9.71	4236883	1845654	514.75	511.43			
Aroclor 1260 {4}	9.10	10.39	9708590	4443884	516.45	514.67			
Aroclor 1260 {5}	9.89	11.02	7661918	2934236	540.08	525.35			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Report Date: 01-Oct-2015 18:21

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D
Inj Date : 01-OCT-2015 10:10
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.875	4.335	9670855	3996154	54.6	50.8		100.00
Aroclor 1016	4.235	4.615	1865899	873868	520	475	80.00- 120.00	100.00(M)
	4.735	4.949	1456739	1122372	486	461	59.94- 89.92	78.07(M)
	4.932	5.582	4564374	1308706	461	436	305.90- 458.85	391.26(M)
	5.202	5.915	2291599	985704	462	449	95.68- 143.52	122.81(M)
	5.495	6.109	2398600	967123	463	449	100.22- 150.33	128.55(M)
			Average of Peak Amounts =		478	454		
Aroclor 1260	7.069	7.825	4681208	1081360	475	490	80.00- 120.00	100.00
	8.085	9.259	4181945	1946552	515	515	71.90- 107.85	89.33
	8.639	9.705	4236883	1845654	515	511	73.13- 109.69	90.51
	9.102	10.385	9708590	4443884	516	515	172.24- 258.37	207.39
	9.885	11.019	7661918	2934236	540	525	133.82- 200.73	163.67
			Average of Peak Amounts =		512	511		
Decachlorobiphenyl	12.252	13.612	8718067	4306330	55.1	52.3		100.00

QC Flag Legend

M - Compound response manually integrated.

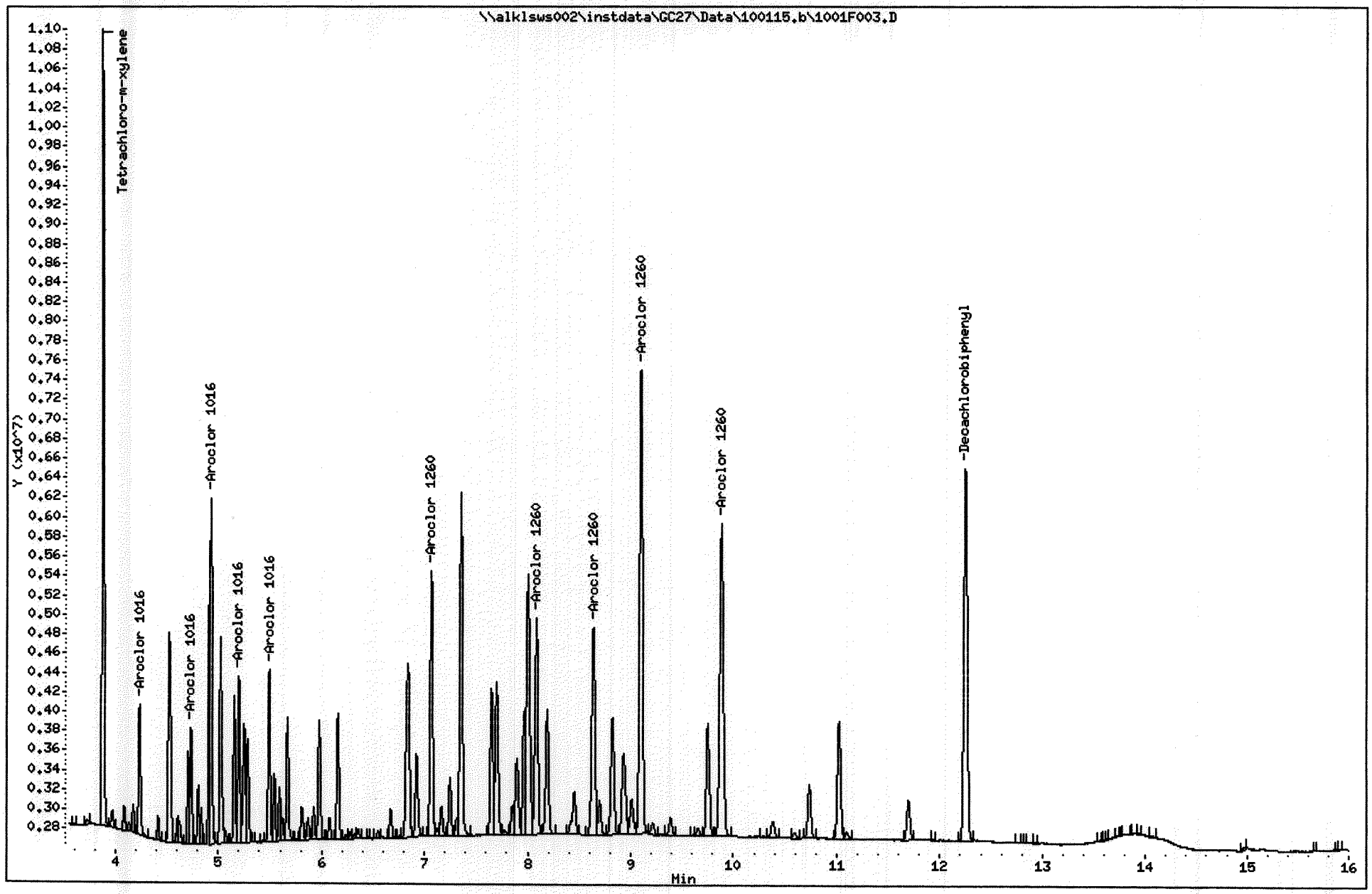
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Date : 01-OCT-2015 10:10
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32

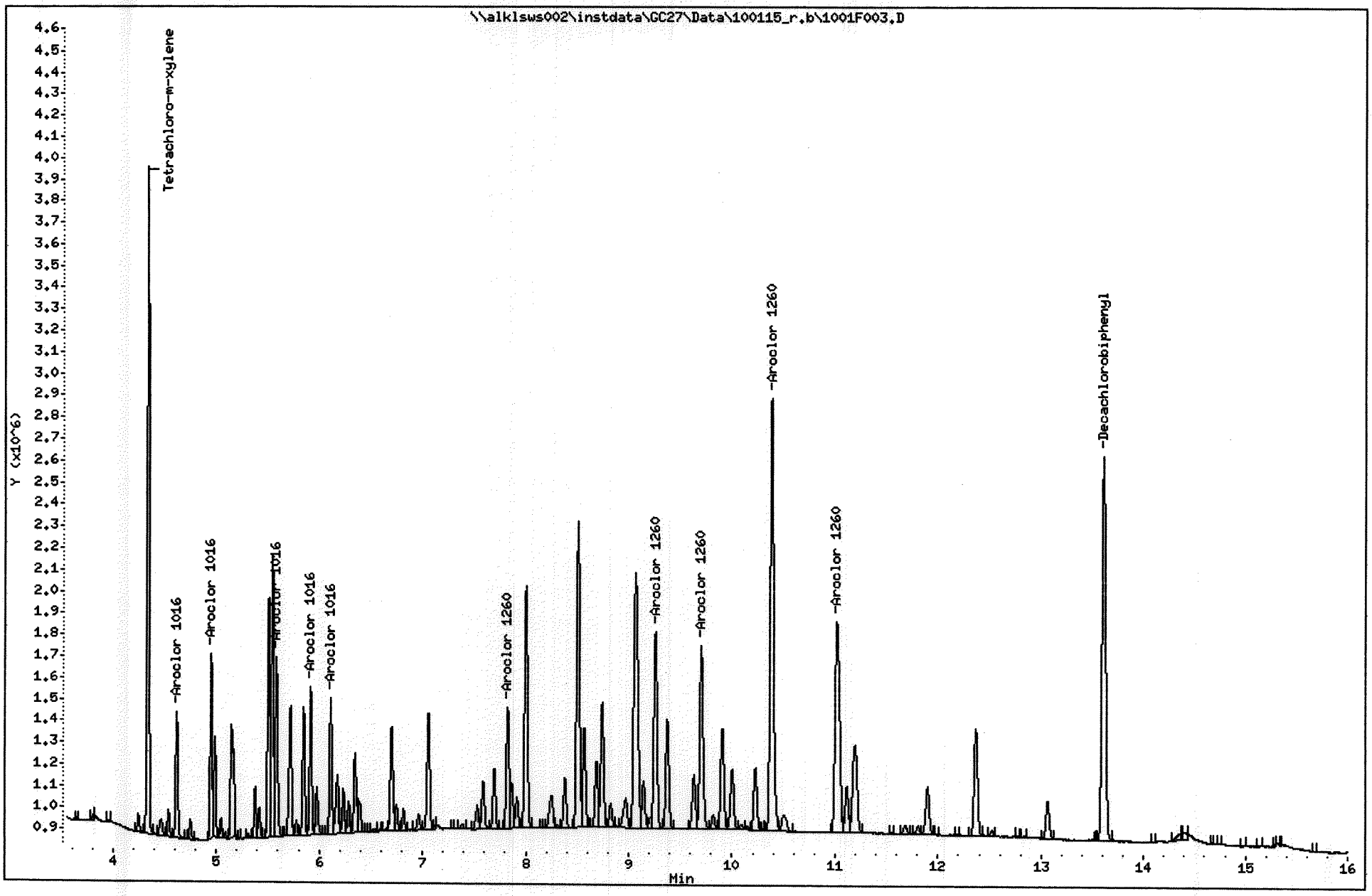


Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D
Date : 01-OCT-2015 10:10
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

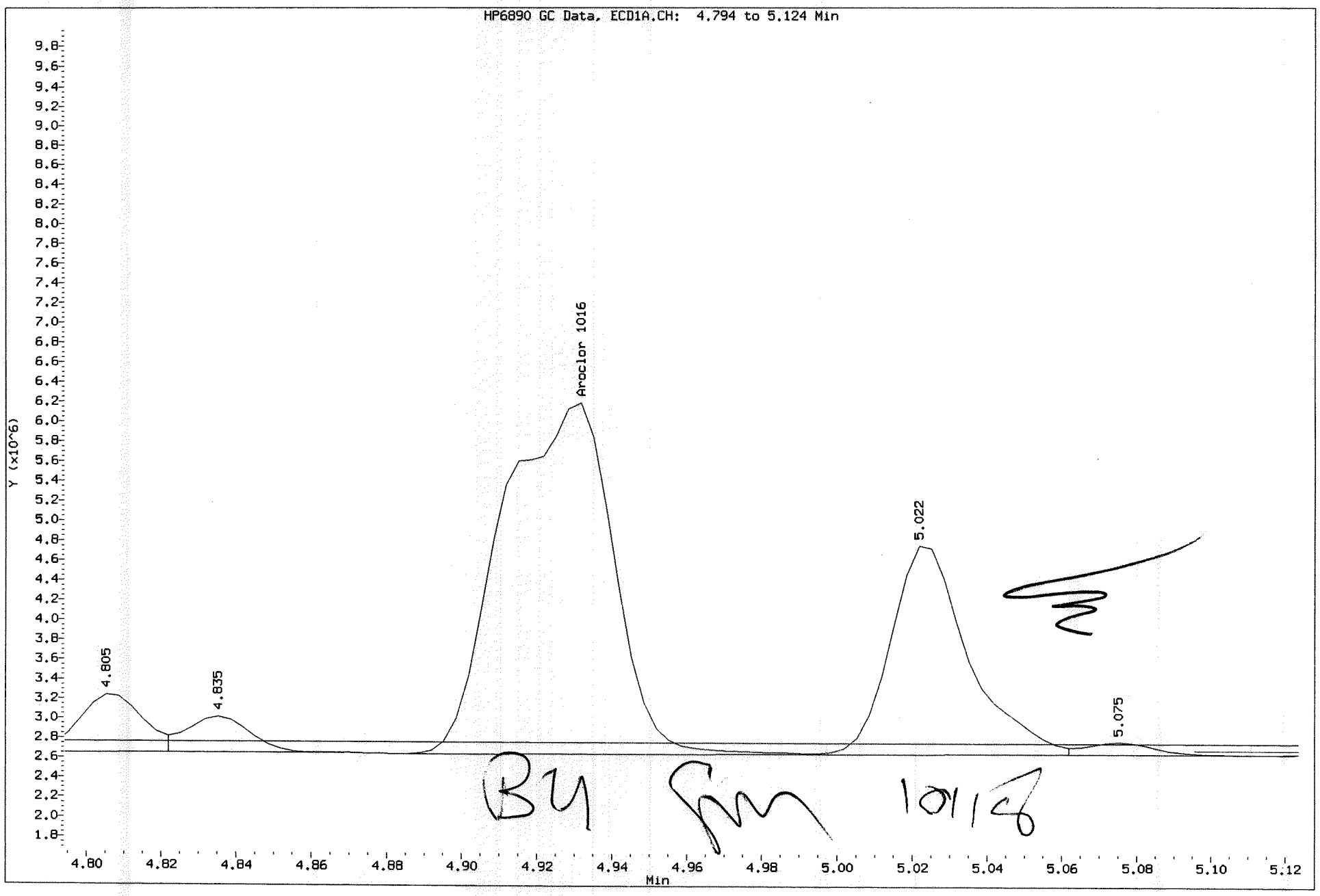
Column phase: DB-XLB

Instrument: GC27.i

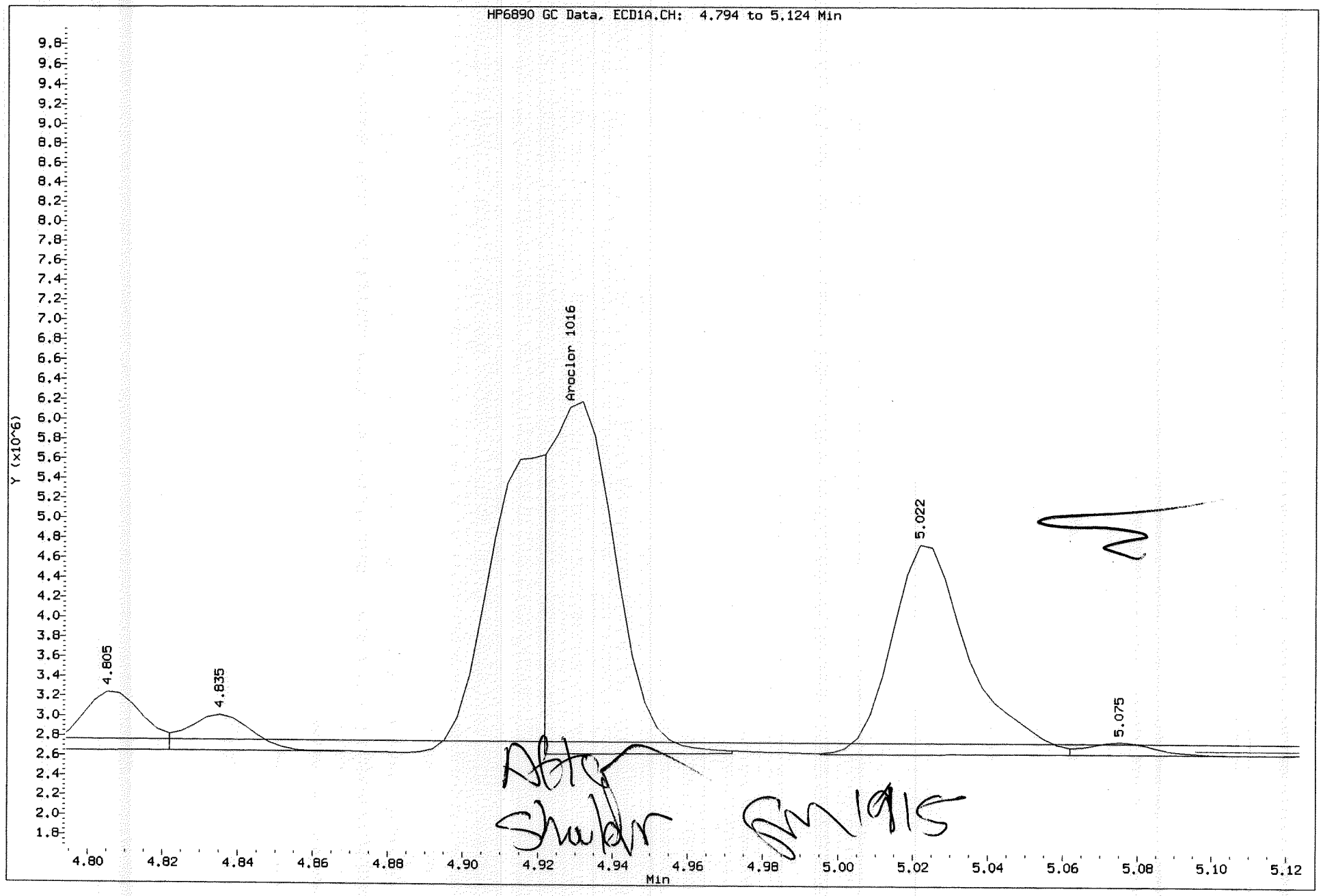
Operator: SMURRAY
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Injection Date: 01-OCT-2015 10:10
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Injection Date: 01-OCT-2015 10:10
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F004.D	**Date Acquired:**	10/01/2015 10:34
Lab ID:	KWG1509486-1	**Date Quantitated:**	10/01/2015 18:21
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F004.D	**Date Acquired:**	10/01/2015 10:34
Lab ID:	KWG1509486-1	**Date Quantitated:**	10/01/2015 18:21
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:15
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D			**Vial:**	100
Acqu Date:	10/01/2015 10:34	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	20-123	
Decachlorobiphenyl	12.25		24511	0	0.1550	0.0000			NA
			%Recovery =		NA	NA	Limits =	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	2.91	0.0000			
Aroclor 1016 {1}	4.25		9961	0	2.78	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}	4.92		8097	0	0.8190	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}	5.48		26659	0	5.15	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	3.31	0.0000			
Aroclor 1232 {1}	4.05		9183	0	6.28	0.0000			
Aroclor 1232 {2}	4.25		9961	0	2.26	0.0000			
Aroclor 1232 {3}	4.51		11467	0	2.94	0.0000			
Aroclor 1232 {4}	4.92		8097	0	1.77	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	3.61	2.55			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D			**Vial:**	100
Acqu Date:	10/01/2015 10:34	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {1}	4.51		11467	0	1.92	0.0000			
Aroclor 1242 {2}	4.92	5.55	8097	5751	1.05	1.75			
Aroclor 1242 {3}		5.69	0	2648	0.0000	1.51			
Aroclor 1242 {4}	5.48	5.91	26659	3818	6.34	2.38			
Aroclor 1242 {5}	5.98	6.81	25369	9193	5.13	4.55			
Aroclor 1248			0	0	4.28	2.18			
Aroclor 1248 {1}	4.92		8097	0	1.73	0.0000			
Aroclor 1248 {2}	5.26	5.52	25624	5683	5.88	2.20			
Aroclor 1248 {3}	5.67	5.91	33660	3818	5.24	1.28			
Aroclor 1248 {4}		6.35	0	4325	0.0000	1.80			
Aroclor 1248 {5}		7.05	0	14601	0.0000	3.42			
Aroclor 1254			0	0	0.0000	3.66			
Aroclor 1254 {1}		6.70	0	11556	0.0000	3.15			
Aroclor 1254 {2}		7.05	0	14601	0.0000	2.52			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}		8.00	0	12067	0.0000	5.33			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	1.67	0.0000			
Aroclor 1260 {1}	7.07		18016	0	1.83	0.0000			
Aroclor 1260 {2}	8.09		20674	0	2.55	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}	9.88		9168	0	0.6460	0.0000			
Aroclor 1262			0	0	0.0000	0.7587			
Aroclor 1262 {1}		9.26	0	2588	0.0000	0.4470			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}		10.38	0	7073	0.0000	0.7330			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}		12.37	0	3990	0.0000	1.10			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Report Date: 01-Oct-2015 18:21

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D
Inj Date : 01-OCT-2015 10:34
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.254	0.000	9961	0	2.78	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	59.94- 89.92	0.00(T)
	4.924	0.000	8097	0	0.819	0.000	305.90- 458.85	81.29(T)
	0.000	0.000	0	0	0.000	0.000	95.68- 143.52	0.00(T)
	5.484	0.000	26659	0	5.15	0.000	100.22- 150.33	267.63(T)
		Average of Peak Amounts =			2.92	0.000		
Aroclor 1232	4.051	0.000	9183	0	6.28	0.000	80.00- 120.00	100.00(T)
	4.254	0.000	9961	0	2.25	0.000	428.79- 643.19	108.47(T)
	4.511	0.000	11467	0	2.94	0.000	883.29-1324.94	124.87(T)
	4.924	0.000	8097	0	1.77	0.000	1638.56-2457.84	88.17(T)
	0.000	0.000	0	0	0.000	0.000	680.47-1020.70	0.00(T)
		Average of Peak Amounts =			3.31	0.000		
Aroclor 1242	4.511	0.000	11467		1.92		80.00- 120.00	100.00(T)
	4.924	5.548	8097	5751	1.05	1.75	148.40- 222.61	70.61(T)
	0.000	5.694		2648		1.51	83.01- 124.51	0.00(T)
	5.484	5.908	26659	3818	6.34	2.38	47.93- 71.89	232.48(T)
	5.981	6.814	25369	9193	5.13	4.55	37.56- 56.34	221.23(T)
		Average of Peak Amounts =			3.61	2.55		
Aroclor 1248	4.924	0.000	8097		1.73		80.00- 120.00	100.00(T)
	5.261	5.518	25624	5683	5.88	2.20	17.18- 25.77	316.46(T)
	5.671	5.908	33660	3818	5.24	1.28	19.47- 29.21	415.71(T)
	0.000	6.348		4325		1.80	161.29- 241.93	0.00(T)
	0.000	7.048		14601		3.42	277.97- 416.96	0.00(T)
		Average of Peak Amounts =			4.28	2.18		
Aroclor 1254	0.000	6.704	0	11556	0.000	3.14		
	0.000	7.048	0	14601	0.000	2.52		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.998	0	12067	0.000	5.33		
	0.000	0.000	0	0	0.000	0.000		

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Report Date: 01-Oct-2015 18:21

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			0.000	3.66		
Aroclor 1260	7.068	0.000	18016	0	1.83	0.000	80.00- 120.00	100.00(T)
	8.091	0.000	20674	0	2.55	0.000	71.90- 107.85	114.75(T)
	0.000	0.000	0	0	0.000	0.000	73.13- 109.69	0.00(T)
	0.000	0.000	0	0	0.000	0.000	172.24- 258.37	0.00(T)
	9.884	0.000	9168	0	0.646	0.000	133.82- 200.73	50.89(T)
		Average of Peak Amounts =			1.68	0.000		
Aroclor 1262	0.000	9.264	0	2588	0.000	0.447		
	0.000	0.000	0	0	0.000	0.000		
	0.000	10.384	0	7073	0.000	0.733		
	0.000	0.000	0	0	0.000	0.000		
	0.000	12.374	0	3990	0.000	1.10		
		Average of Peak Amounts =			0.000	0.760		
Decachlorobiphenyl	12.251	0.000	24511	0	0.155	0.000		100.00
Aroclors, Total	0.000	0.000	80893	29750	15.8	9.15		0.00

QC Flag Legend

T - Target compound detected outside RT window.

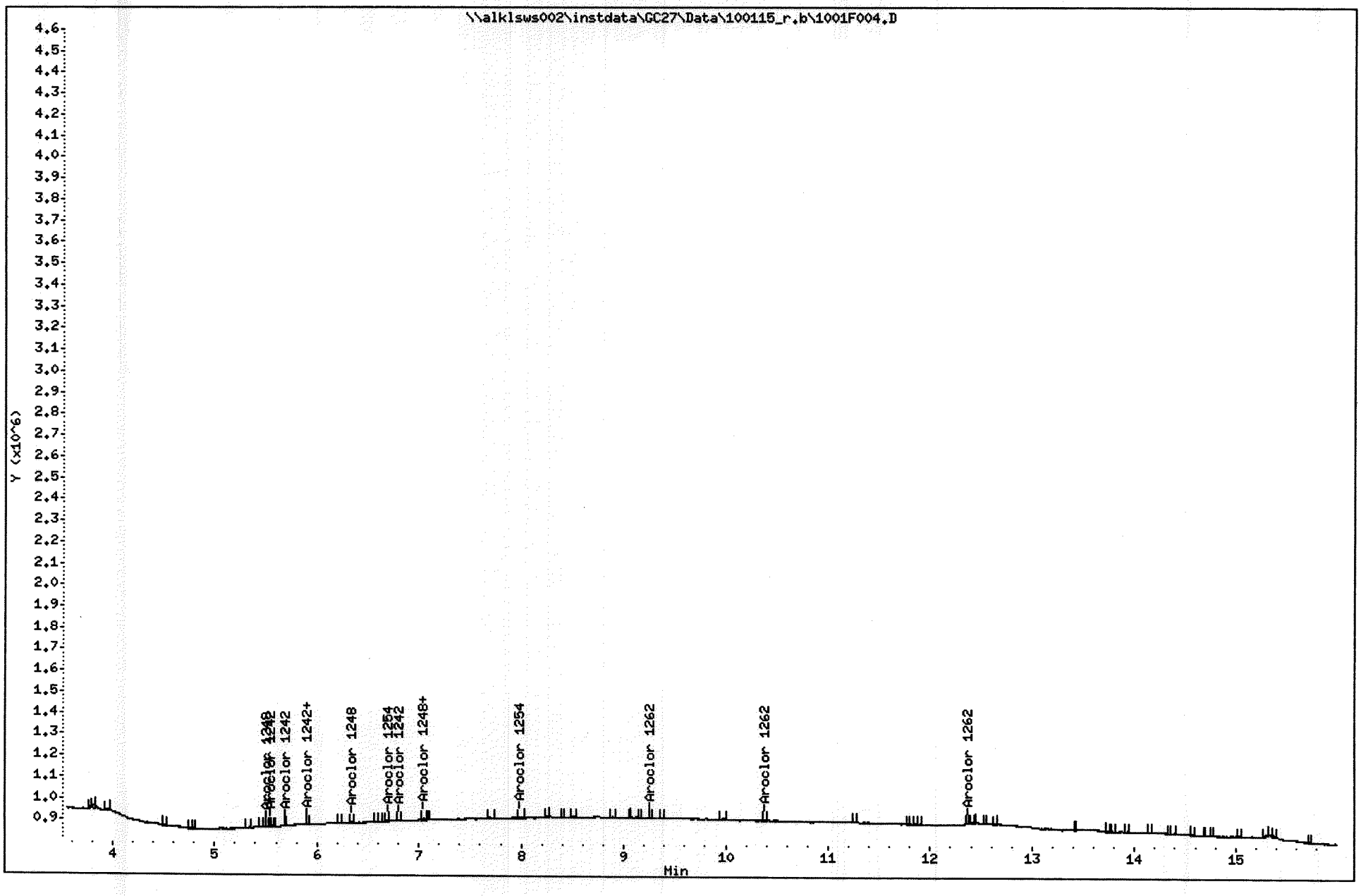
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D
Date : 01-OCT-2015 10:34
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



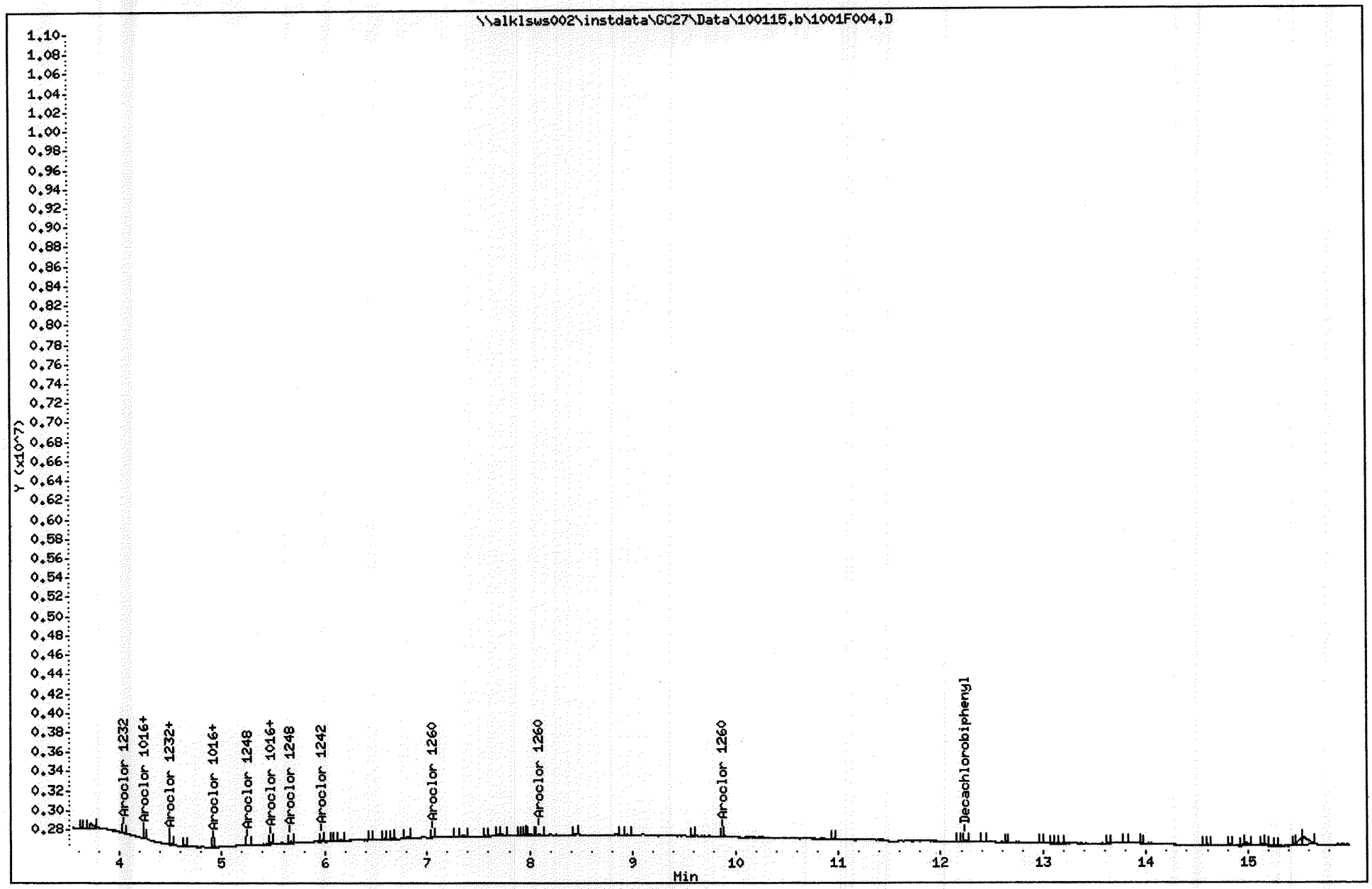
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Date : 01-OCT-2015 10:34
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F007.D
Lab ID: KWG1509486-4
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 10/01/2015 11:45
Date Quantitated: 10/01/2015 18:22
Batch ID: KWG1509486
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:30
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F007.D	**Date Acquired:**	10/01/2015 11:45
Lab ID:	KWG1509486-4	**Date Quantitated:**	10/01/2015 18:21
RunType:	CCV	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:33
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D			**Vial:**	95
Acqu Date:	10/01/2015 11:45	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9156881	3988461	51.73	50.71			NA
				%Recovery =	NA	NA	**Limits =**	20-123	
Decachlorobiphenyl	12.26	13.62	8504257	4270938	53.78	51.86			NA
				%Recovery =	NA	NA	**Limits =**	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	457.33	452.03			
Aroclor 1016 {1}	4.24	4.62	1740107m	856160	484.85	465.78			
Aroclor 1016 {2}	4.74	4.95	1406953m	1131118	469.60	464.61			
Aroclor 1016 {3}	4.94	5.59	4410331m	1302186	445.89	434.17			
Aroclor 1016 {4}	5.21	5.92	2188902m	987139	441.20	449.72			
Aroclor 1016 {5}	5.50	6.12	2304061m	961254	445.11	445.85			
Aroclor 1260			0	0	496.33	504.05			
Aroclor 1260 {1}	7.07	7.83	4520097	1057192	458.87	479.26			
Aroclor 1260 {2}	8.09	9.27	4029307	1924293	496.60	509.09			
Aroclor 1260 {3}	8.64	9.71	4118793	1832029	500.40	507.65			
Aroclor 1260 {4}	9.11	10.39	9465795	4390554	503.53	508.49			
Aroclor 1260 {5}	9.89	11.03	7409113	2880566	522.26	515.74			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D
Inj Date : 01-OCT-2015 11:45
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.336	9156881	3988461	51.7	50.7		100.00
Aroclor 1016	4.240	4.620	1740107	856160	485	466	80.00- 120.00	100.00(M)
	4.740	4.953	1406953	1131118	470	465	59.94- 89.92	80.85(M)
	4.936	5.586	4410331	1302186	446	434	305.90- 458.85	403.77(M)
	5.206	5.920	2188902	987139	441	450	95.68- 143.52	125.79(M)
	5.500	6.116	2304061	961254	445	446	100.22- 150.33	132.41(M)
		Average of Peak Amounts =			457	452		
Aroclor 1260	7.073	7.830	4520097	1057192	459	479	80.00- 120.00	100.00
	8.090	9.266	4029307	1924293	497	509	71.90- 107.85	89.14
	8.643	9.713	4118793	1832029	500	508	73.13- 109.69	91.12
	9.106	10.390	9465795	4390554	504	508	172.24- 258.37	209.42
	9.890	11.026	7409113	2880566	522	516	133.82- 200.73	163.91
		Average of Peak Amounts =			496	504		
Decachlorobiphenyl	12.256	13.616	8504257	4270938	53.8	51.9		100.00

QC Flag Legend

M - Compound response manually integrated.

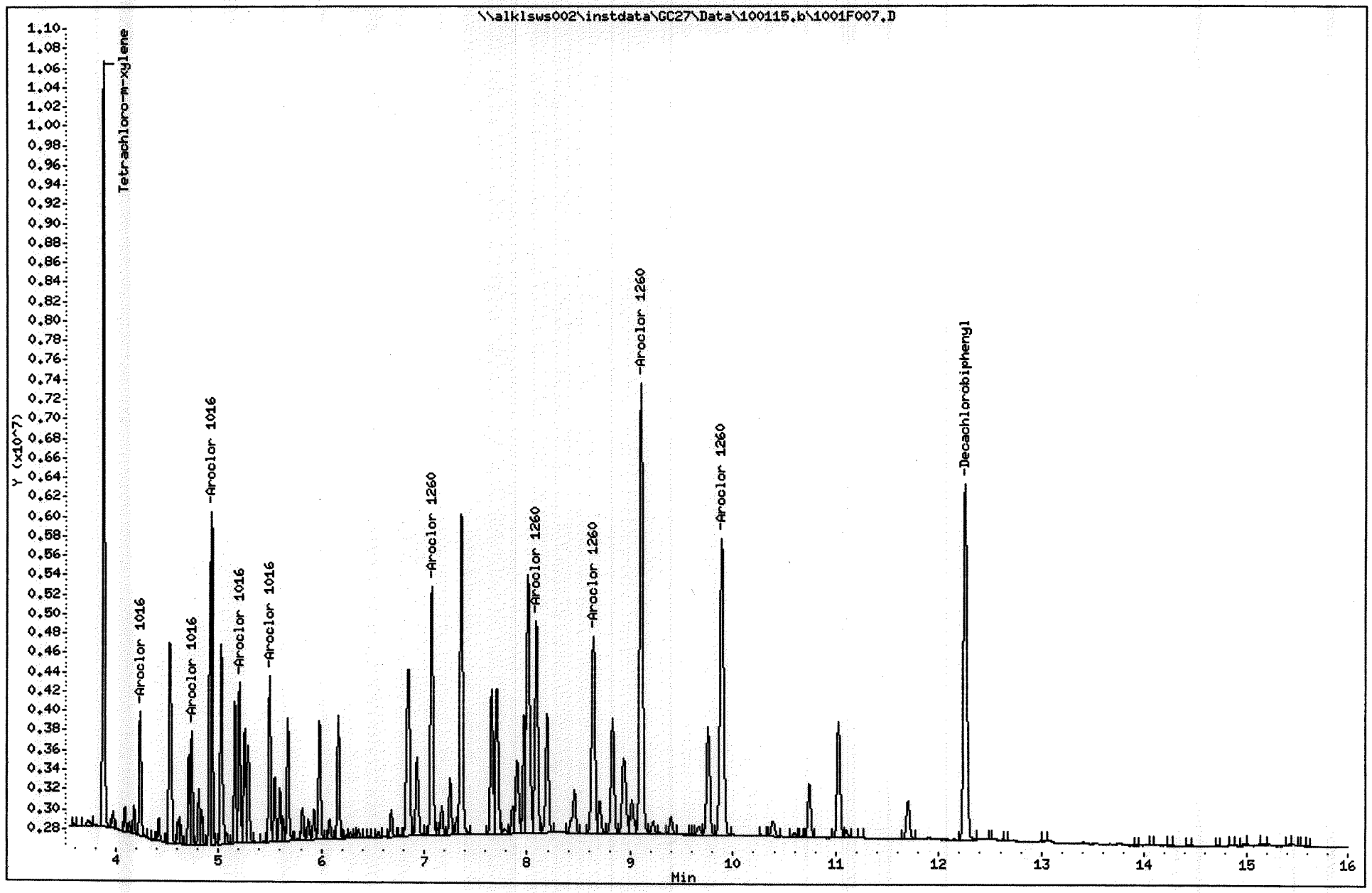
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Date : 01-OCT-2015 11:45
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



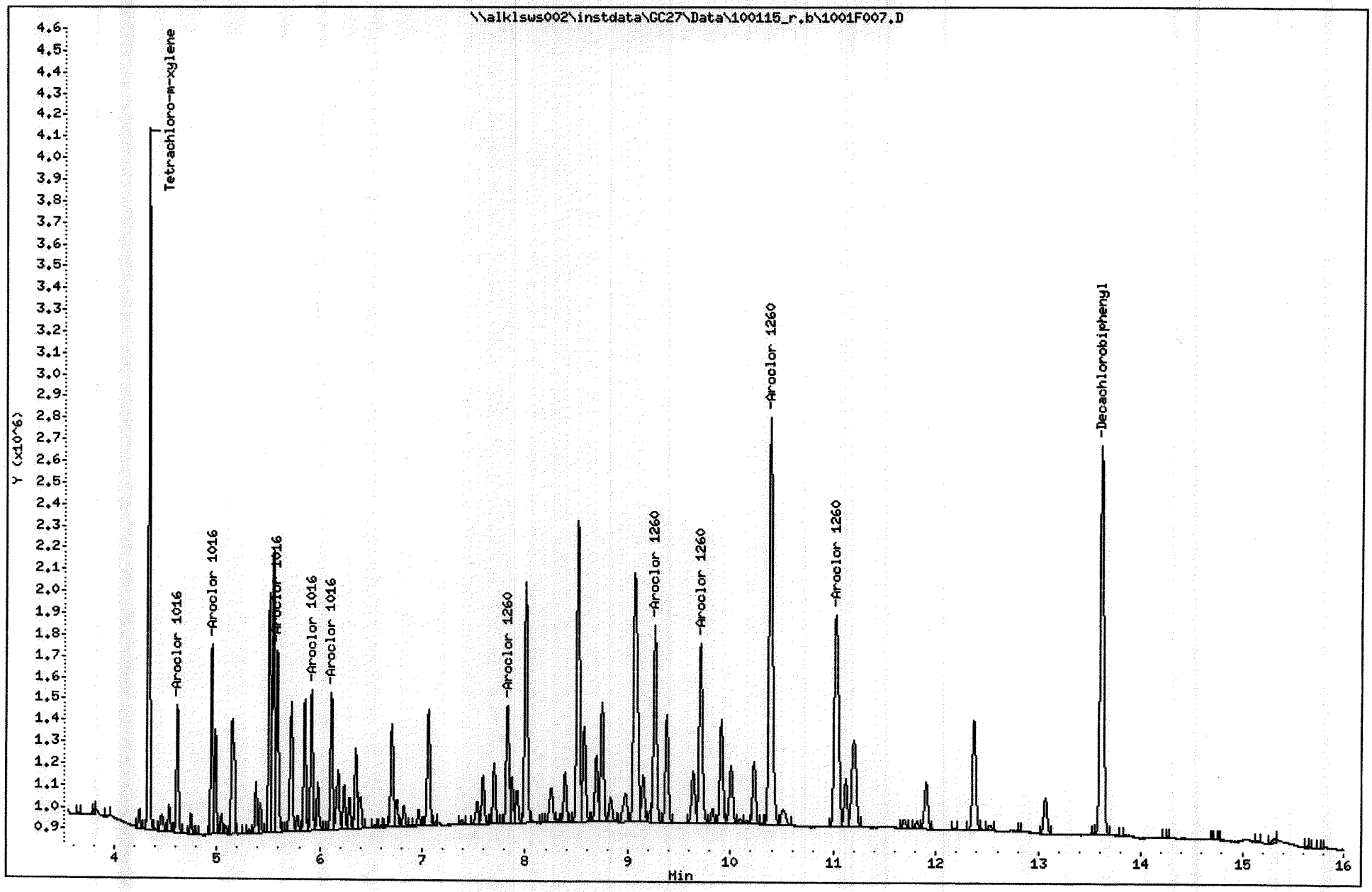
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D
Date : 01-OCT-2015 11:45
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

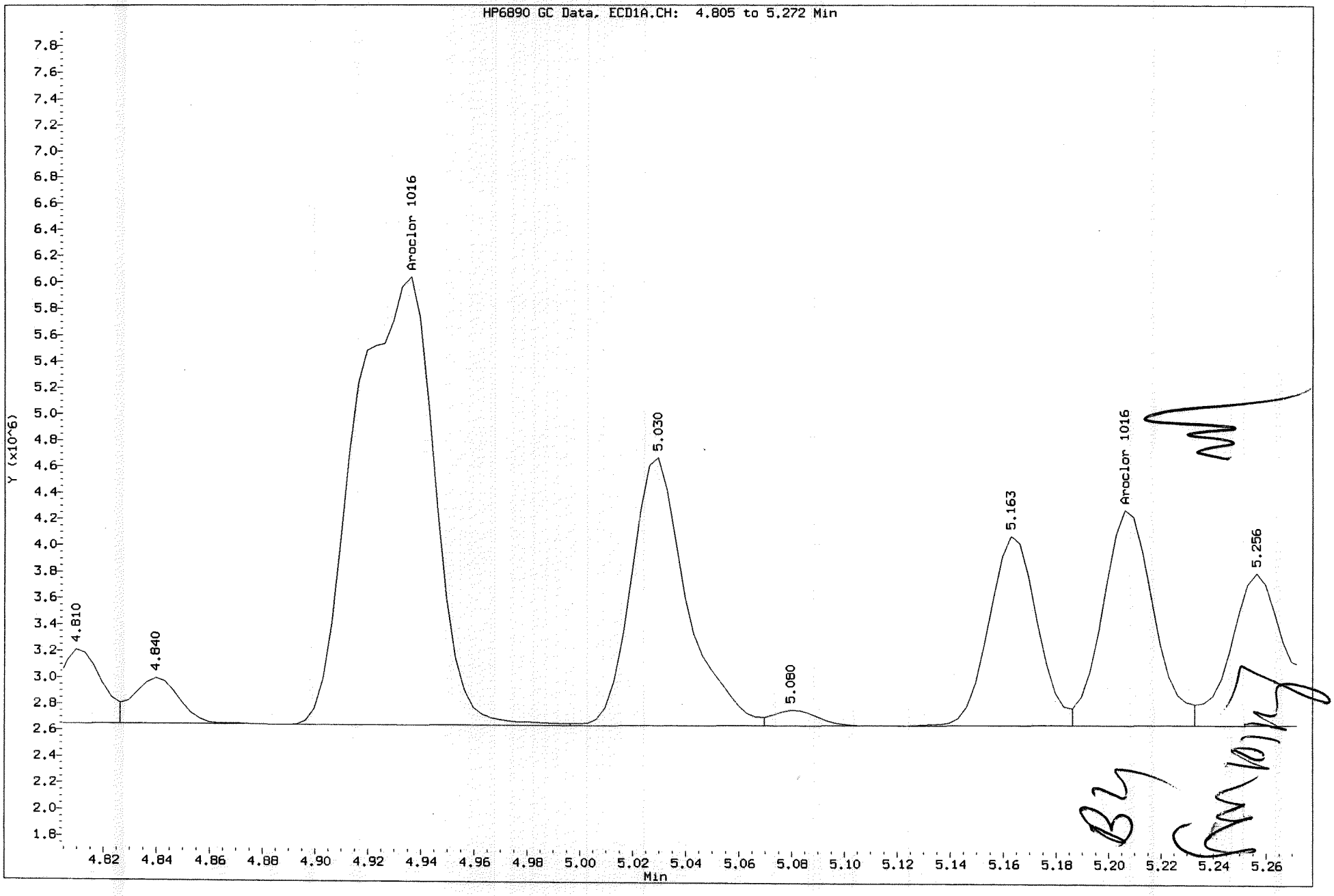
Operator: SMURRAY

Column phase: DB-XLB

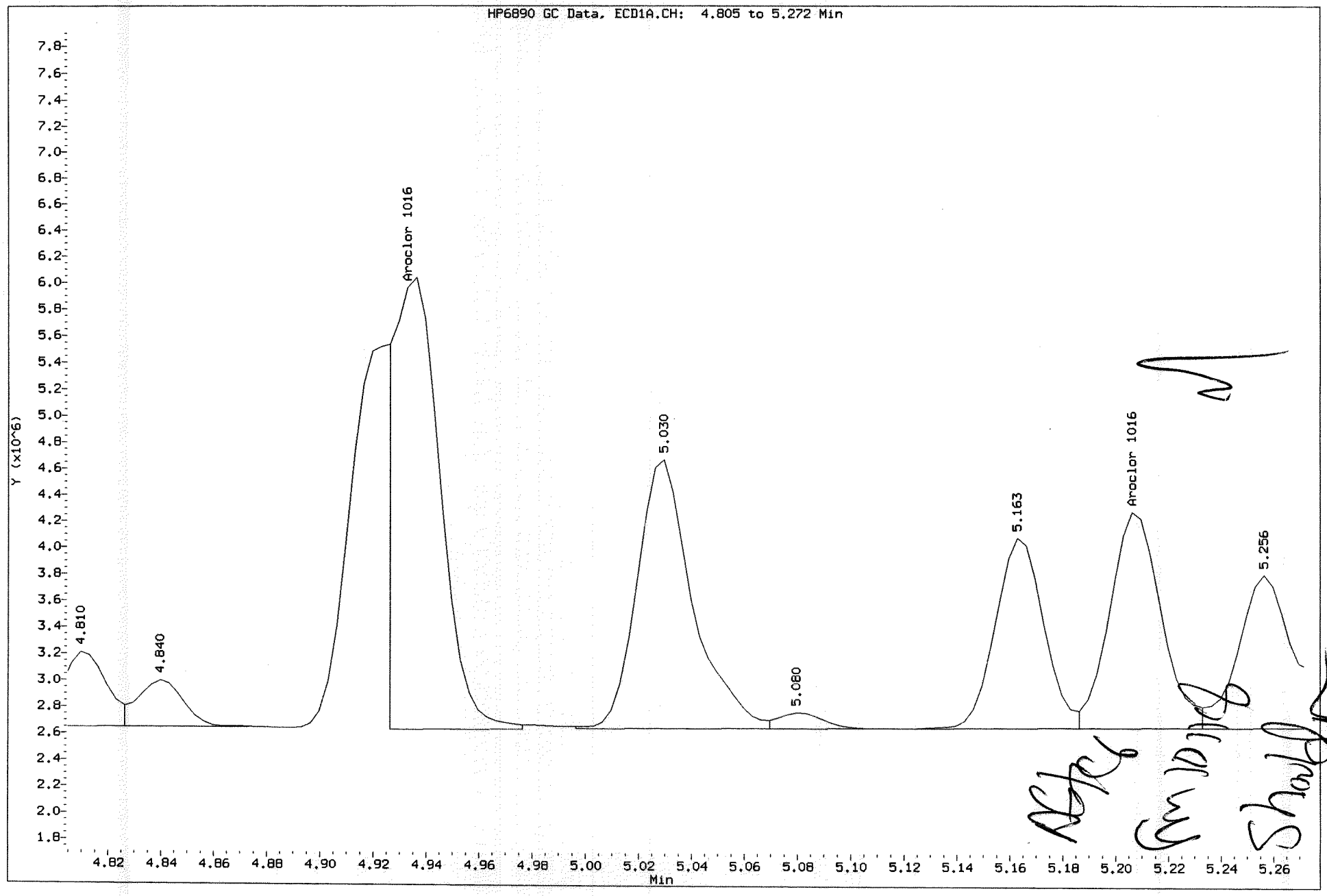
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Injection Date: 01-OCT-2015 11:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Injection Date: 01-OCT-2015 11:45
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F008.D	**Date Acquired:**	10/01/2015 12:09
Lab ID:	KWG1509486-3	**Date Quantitated:**	10/01/2015 18:22
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:36
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F008.D	**Date Acquired:**	10/01/2015 12:09
Lab ID:	KWG1509486-3	**Date Quantitated:**	10/01/2015 18:21
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D			**Vial:**	100
Acqu Date:	10/01/2015 12:09	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24	13.62	8389	23724	0.0530	0.2880			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	2.73	3.58			
Aroclor 1016 {1}	4.26	4.64	8281	8468	2.31	4.61			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}	4.92	5.55	7572	6249	0.7660	2.08			
Aroclor 1016 {4}	5.24	5.92	7937	4838	1.60	2.20			
Aroclor 1016 {5}	5.50	6.12	32343	11730	6.25	5.44			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	4.79			
Aroclor 1232 {1}		4.64	0	8468	0.0000	4.42			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}		5.55	0	6249	0.0000	4.07			
Aroclor 1232 {5}		5.92	0	4838	0.0000	5.87			
Aroclor 1242			0	0	4.93	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D			**Vial:**	100
Acqu Date:	10/01/2015 12:09	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}	4.92		7572	0	0.9770	0.0000			
Aroclor 1242 {3}	5.17		14047	0	4.48	0.0000			
Aroclor 1242 {4}	5.50		32343	0	7.69	0.0000			
Aroclor 1242 {5}	5.98		32396	0	6.55	0.0000			
Aroclor 1248			0	0	2.63	2.24			
Aroclor 1248 {1}	4.92		7572	0	1.62	0.0000			
Aroclor 1248 {2}	5.24	5.55	7937	6249	1.82	2.42			
Aroclor 1248 {3}	5.68	5.92	33263	4838	5.18	1.63			
Aroclor 1248 {4}	5.86	6.36	9434	6324	1.92	2.64			
Aroclor 1248 {5}		7.05	0	9703	0.0000	2.27			
Aroclor 1254			0	0	4.31	2.01			
Aroclor 1254 {1}	6.24		12798	0	3.29	0.0000			
Aroclor 1254 {2}	6.67	7.05	10642	9703	1.47	1.68			
Aroclor 1254 {3}	6.83	7.15	58067	5686	3.97	2.94			
Aroclor 1254 {4}	7.17	8.00	13271	4354	1.39	1.92			
Aroclor 1254 {5}	7.74	8.75	72469	4679	11.45	1.49			
Aroclors, Total			126285	41306	17.96	15.11	J	J	
Aroclor 1260			0	0	2.17	1.38			
Aroclor 1260 {1}	7.08		40622	0	4.12	0.0000			
Aroclor 1260 {2}	8.08	9.27	22143	5098	2.73	1.35			
Aroclor 1260 {3}	8.64	9.71	12899	4584	1.57	1.27			
Aroclor 1260 {4}	9.11	10.38	28554	10374	1.52	1.20			
Aroclor 1260 {5}	9.88	11.02	13153	9523	0.9270	1.71			
Aroclor 1262			0	0	1.18	1.11			
Aroclor 1262 {1}	8.08	9.27	22143	5098	1.64	0.8810			
Aroclor 1262 {2}	8.64	9.71	12899	4584	1.10	1.13			
Aroclor 1262 {3}	9.11	10.38	28554	10374	1.24	1.08			
Aroclor 1262 {4}	9.88	11.02	13153	9523	0.7580	1.42			
Aroclor 1262 {5}		12.40	0	3864	0.0000	1.06			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D
Inj Date : 01-OCT-2015 12:09
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.262	4.635	8281	8468	2.31	4.61	80.00- 120.00	100.00(T)
	0.000	0.000					107.99- 161.98	0.00(T)
	4.915	5.548	7572	6249	0.766	2.08	305.90- 458.85	91.44(T)
	5.242	5.915	7937	4838	1.60	2.20	95.68- 143.52	95.85(T)
	5.498	6.118	32343	11730	6.25	5.44	100.22- 150.33	390.57(T)
		Average of Peak Amounts =			2.73	3.58		
Aroclor 1232	0.000	4.635	0	8468	0.000	4.42		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.548	0	6249	0.000	4.07		
	0.000	5.915	0	4838	0.000	5.86		
		Average of Peak Amounts =			0.000	4.78		
Aroclor 1242	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	4.915	0.000	7572	0	0.977	0.000	148.40- 222.61	0.00(T)
	5.165	0.000	14047	0	4.48	0.000	37.98- 56.97	0.00(T)
	5.498	0.000	32343	0	7.69	0.000	47.93- 71.89	0.00(T)
	5.982	0.000	32396	0	6.55	0.000	37.56- 56.34	0.00(T)
		Average of Peak Amounts =			4.92	0.000		
Aroclor 1248	4.915	0.000	7572		1.62		80.00- 120.00	100.00(T)
	5.242	5.548	7937	6249	1.82	2.42	17.18- 25.77	104.82(T)
	5.678	5.915	33263	4838	5.18	1.63	19.47- 29.21	439.29(T)
	5.862	6.355	9434	6324	1.92	2.64	3.05- 4.58	124.59(T)
	0.000	7.045		9703		2.27	277.97- 416.96	0.00(T)
		Average of Peak Amounts =			2.64	2.24		
Aroclor 1254	6.235	0.000	12798		3.29		80.00- 120.00	100.00
	6.668	7.045	10642	9703	1.47	1.67	1017.66-1526.49	83.15
	6.832	7.152	58067	5686	3.97	2.94	9646.23-14469.35	453.72
	7.172	8.002	13271	4354	1.39	1.92	1126.72-1690.08	103.70
	7.735	8.745	72469	4679	11.4	1.49	281.12- 421.67	566.25

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Report Date: 01-Oct-2015 18:22

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			4.30	2.01		
Aroclor 1260	7.075	0.000	40622		4.12		80.00- 120.00	100.00
	8.082	9.268	22143	5098	2.73	1.35	71.90- 107.85	54.51
	8.642	9.708	12899	4584	1.57	1.27	73.13- 109.69	31.75
	9.108	10.382	28554	10374	1.52	1.20	172.24- 258.37	70.29
	9.882	11.018	13153	9523	0.927	1.71	133.82- 200.73	32.38
		Average of Peak Amounts =			2.17	1.38		
Aroclor 1262	8.082	9.268	22143	5098	1.64	0.881	80.00- 120.00	100.00(T)
	8.642	9.708	12899	4584	1.10	1.13	81.49- 122.24	58.25(T)
	9.108	10.382	28554	10374	1.24	1.07	185.52- 278.29	128.95(T)
	9.882	11.018	13153	9523	0.758	1.42	145.56- 218.35	59.40(T)
	0.000	12.402		3864		1.06	52.03- 78.05	75.79(T)
		Average of Peak Amounts =			1.18	1.11		
Decachlorobiphenyl	12.235	13.615	8389	23724	0.0531	0.288		100.00
Aroclors, Total	0.000	0.000	126285	41306	18.0	15.1		0.00

QC Flag Legend

T - Target compound detected outside RT window.

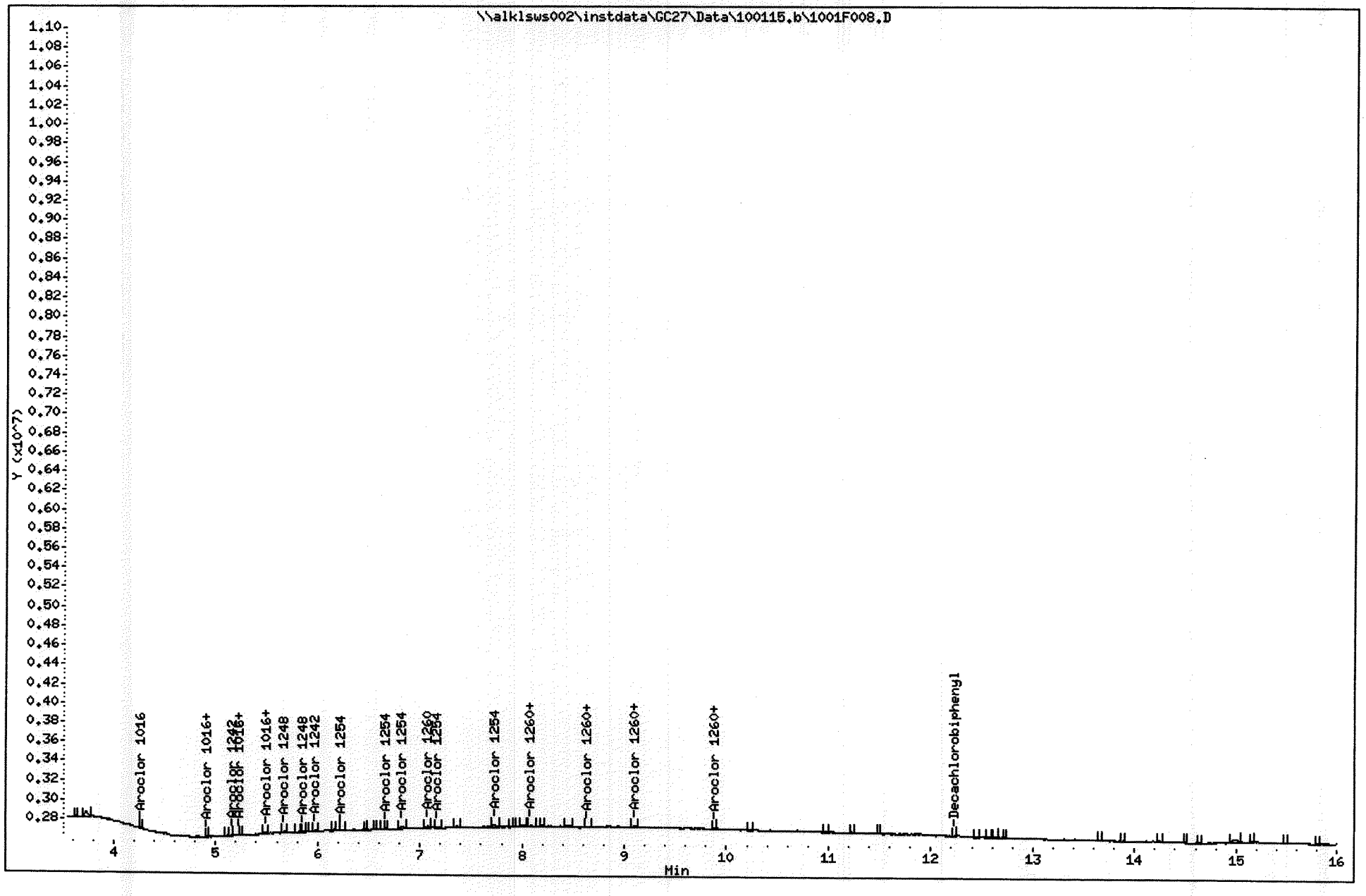
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Date : 01-OCT-2015 12:09
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



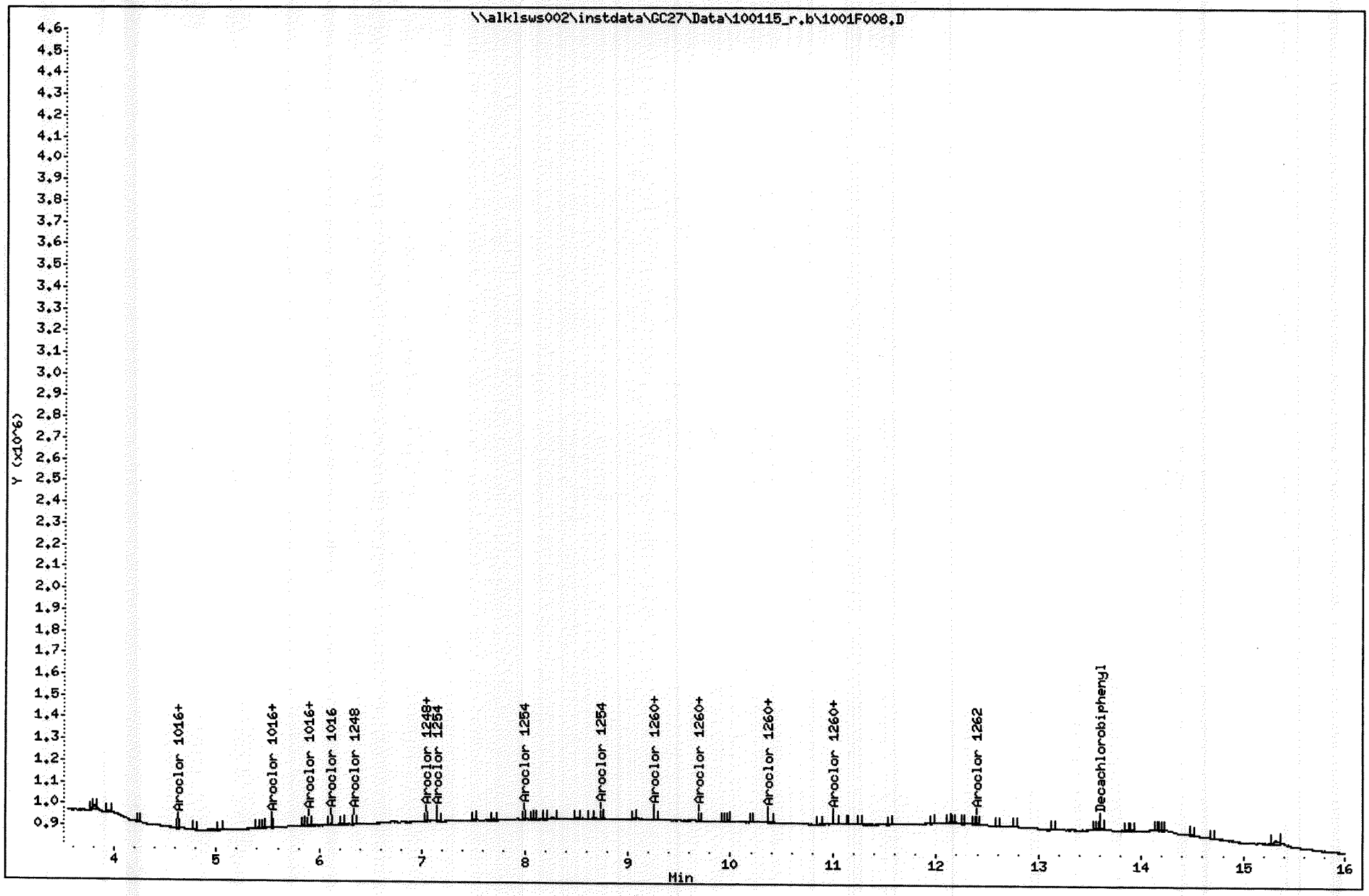
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D
Date : 01-OCT-2015 12:09
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50 ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ 20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
* ↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

OK

Other column OK

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

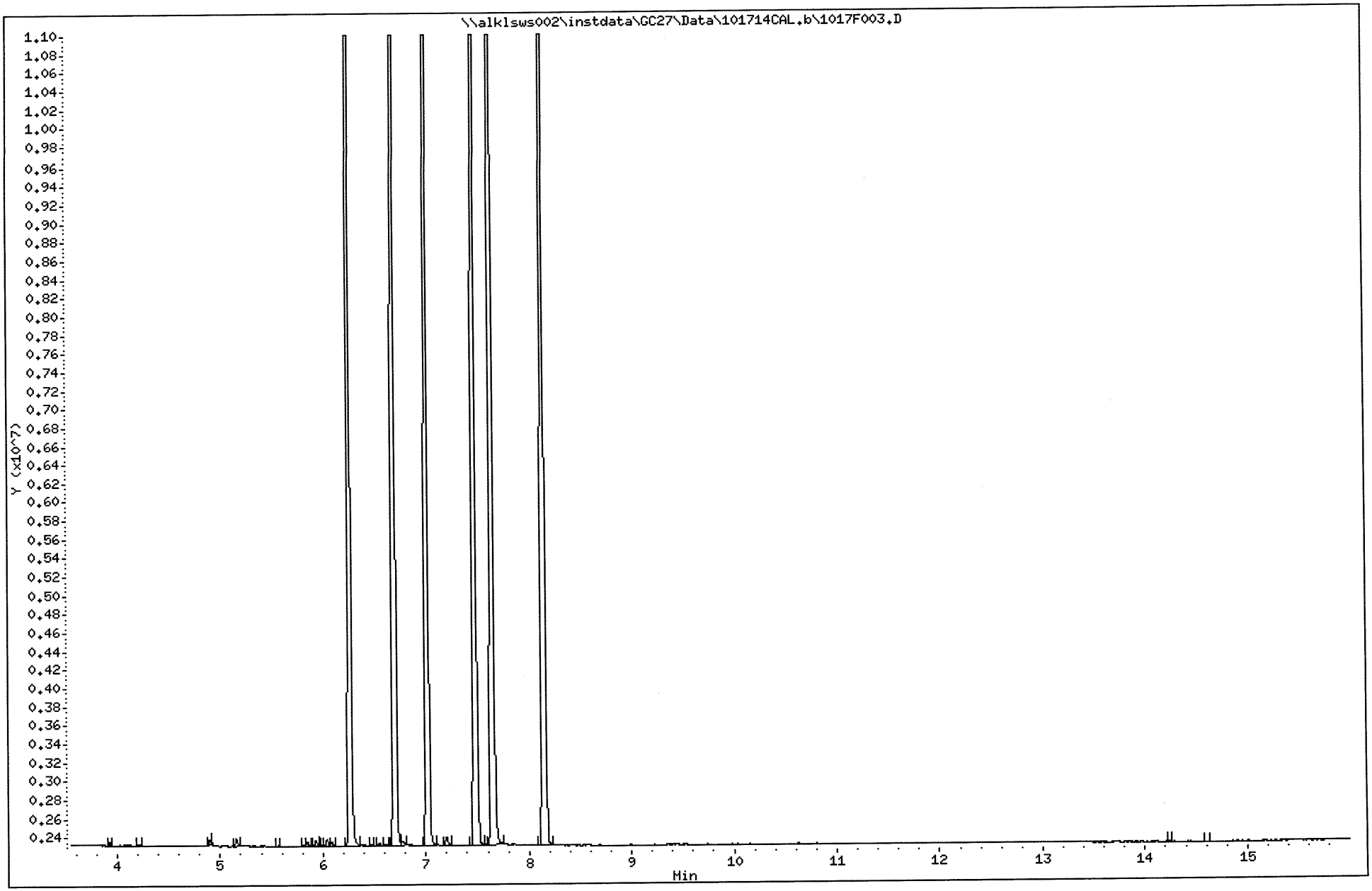
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



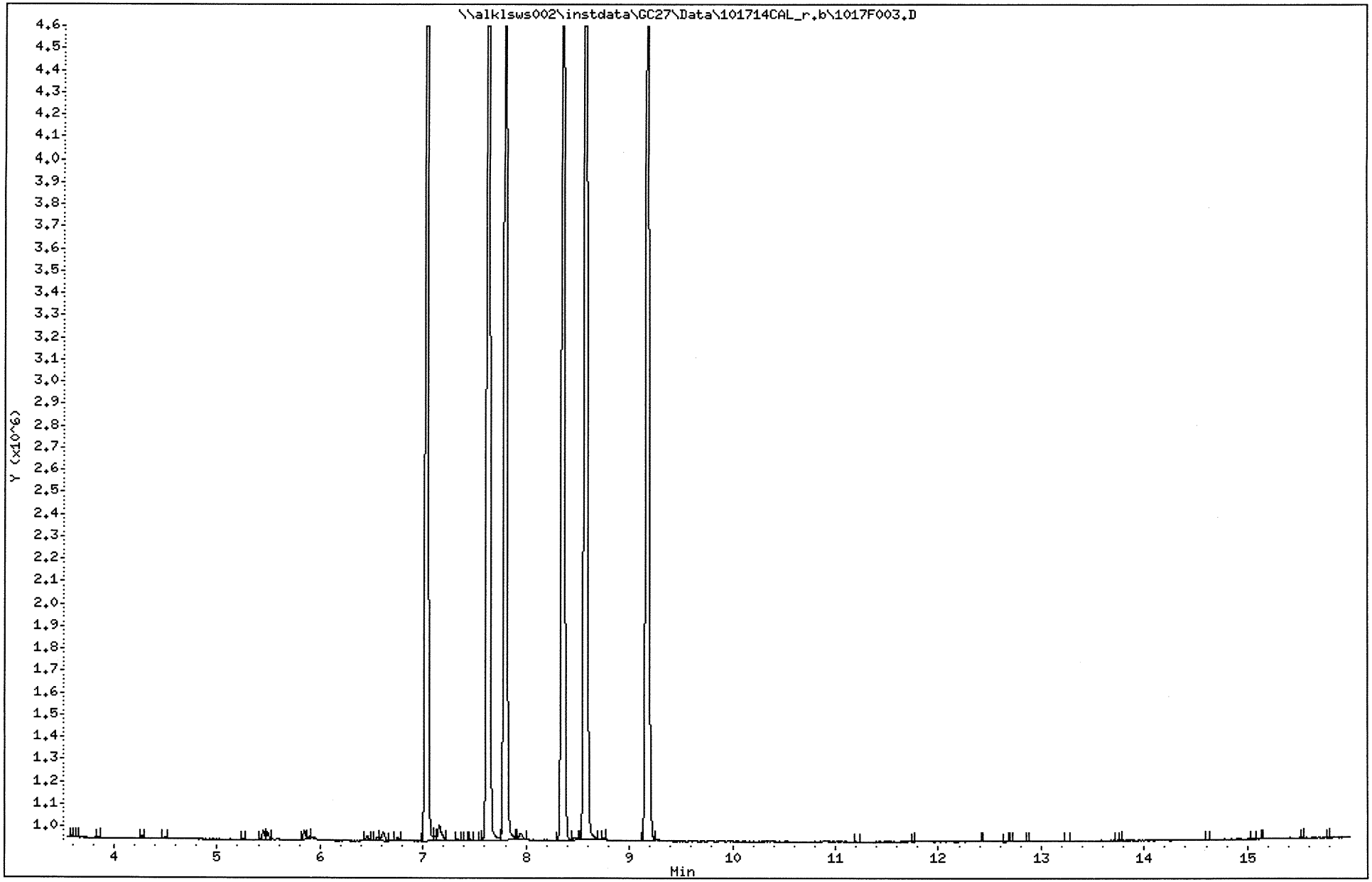
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

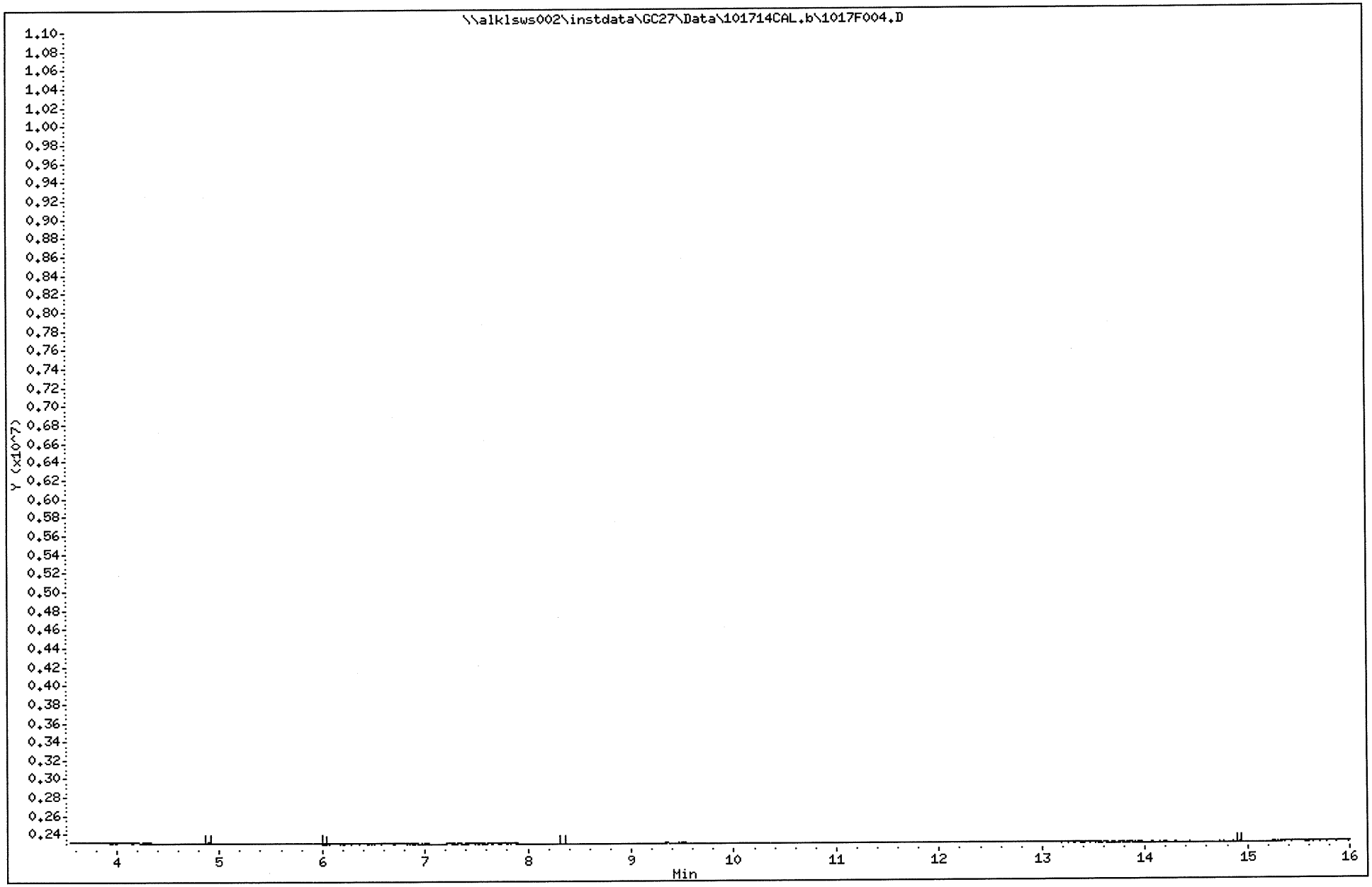
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



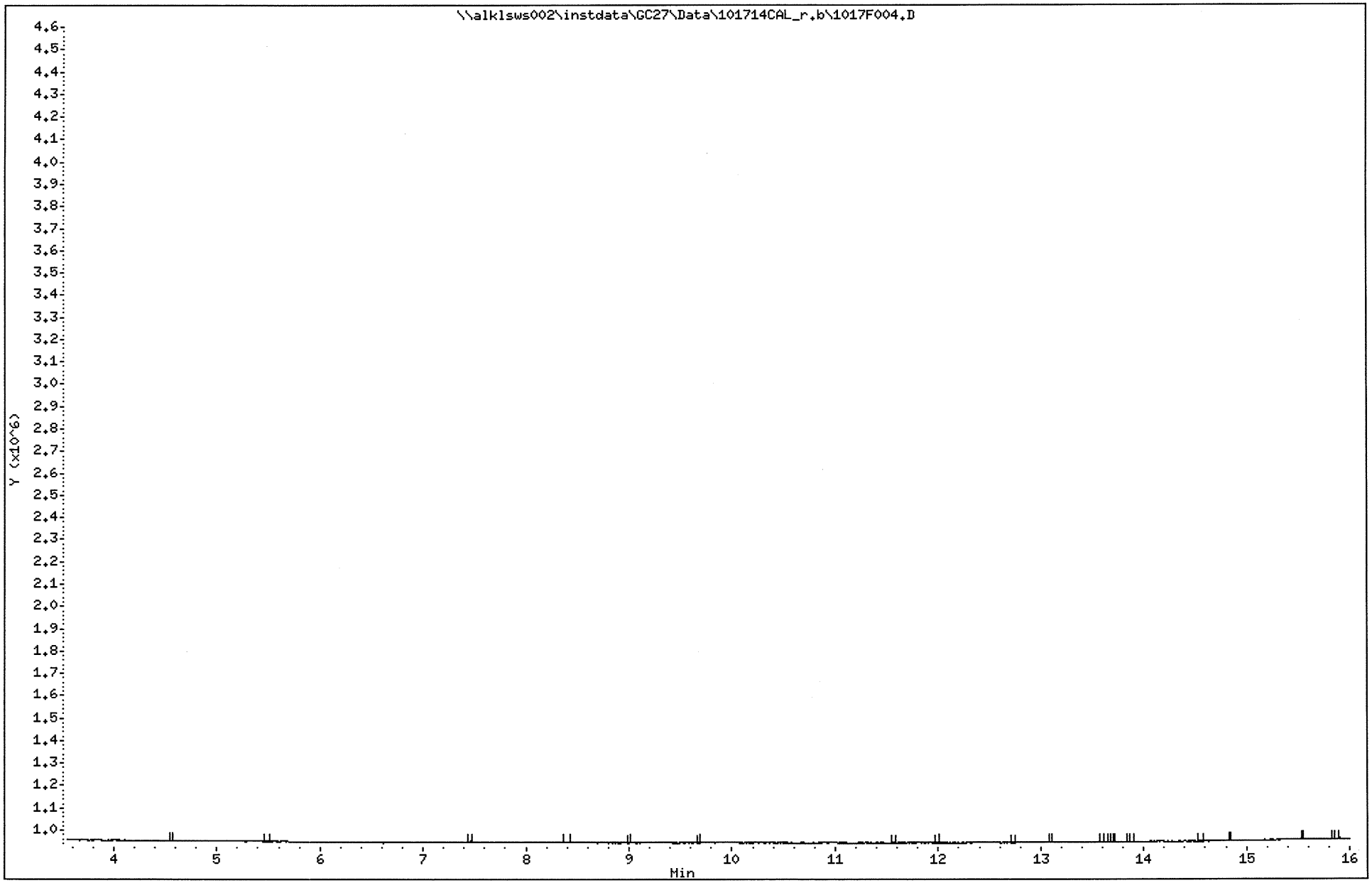
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

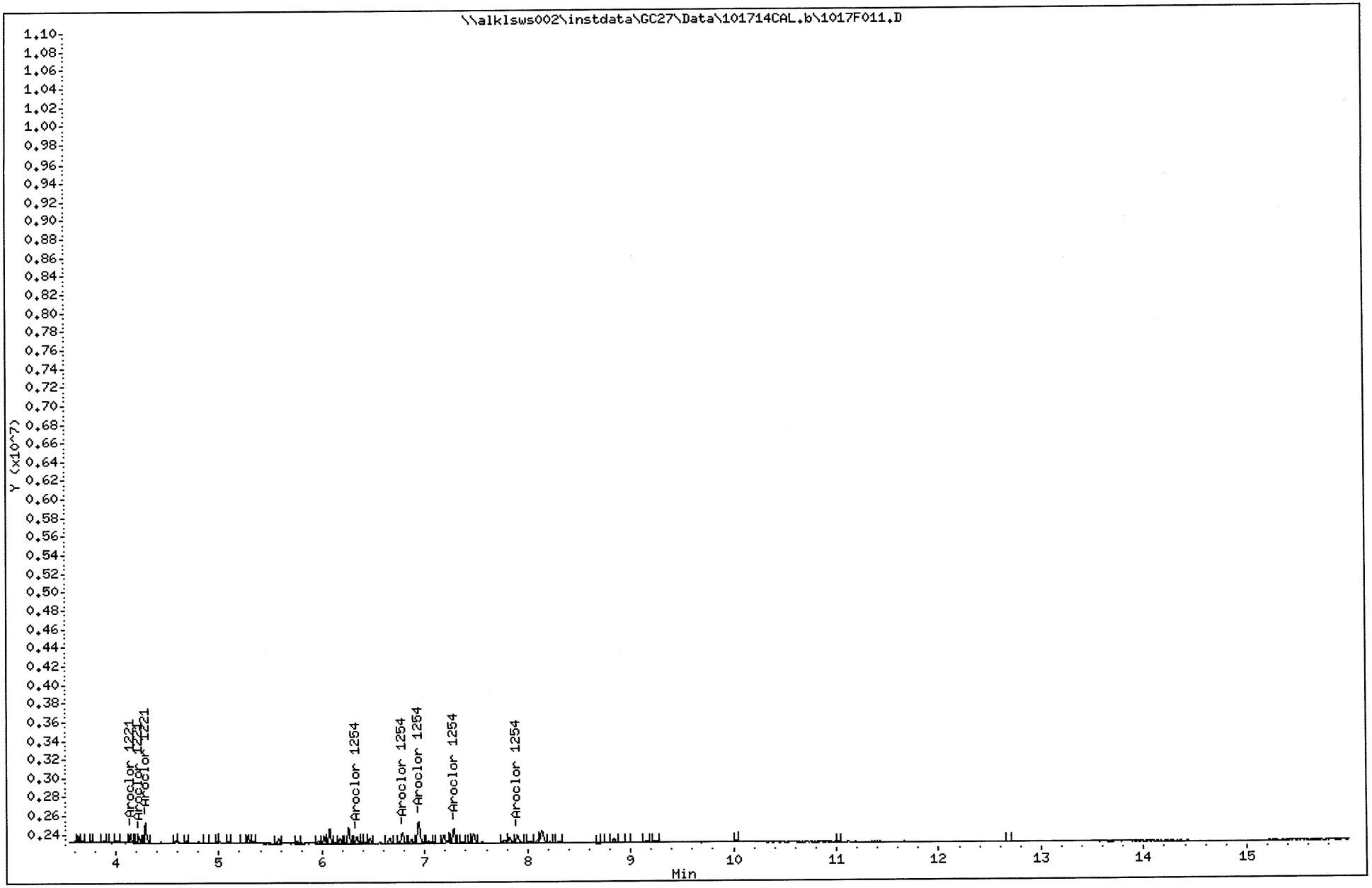
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



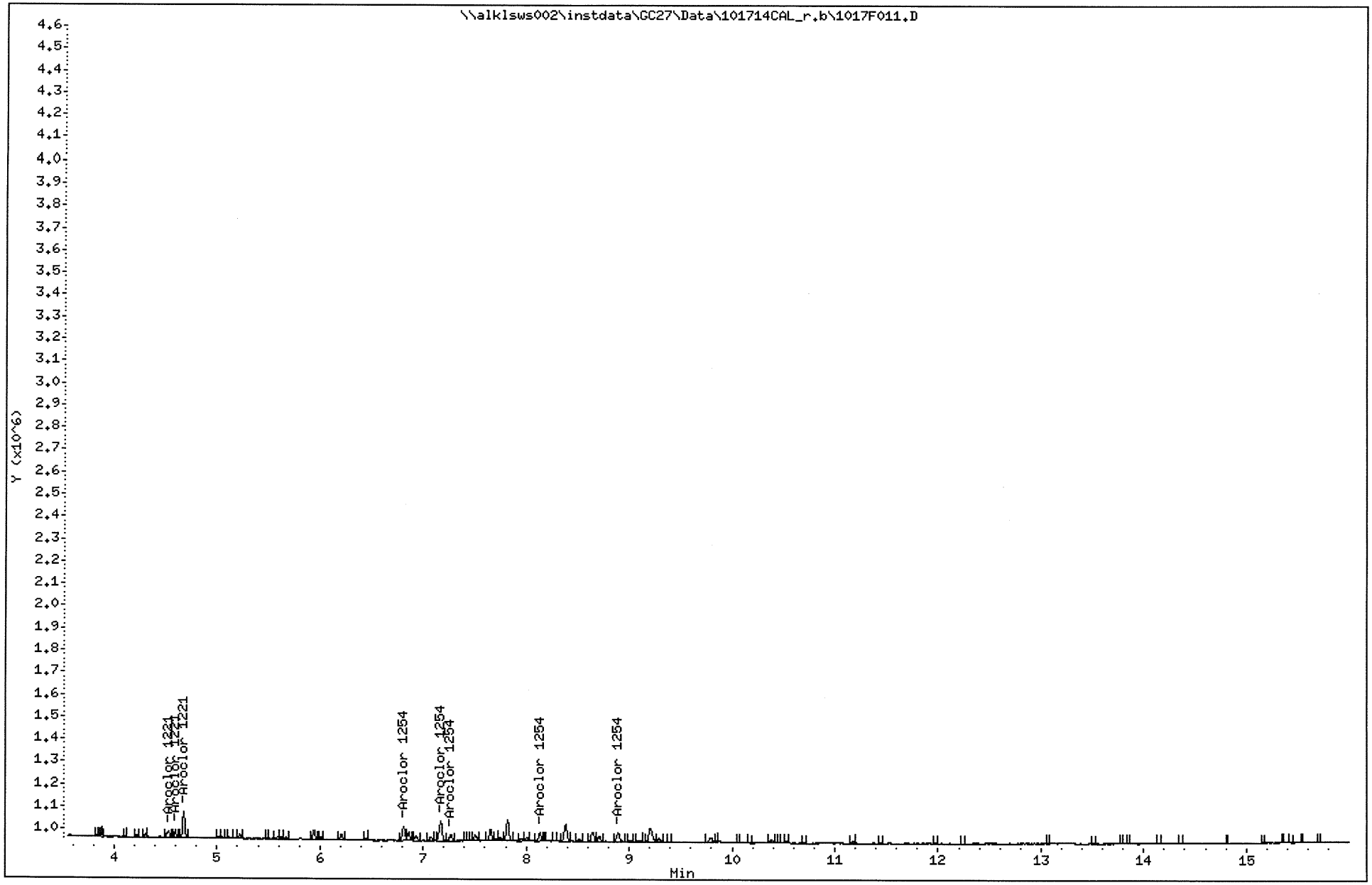
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

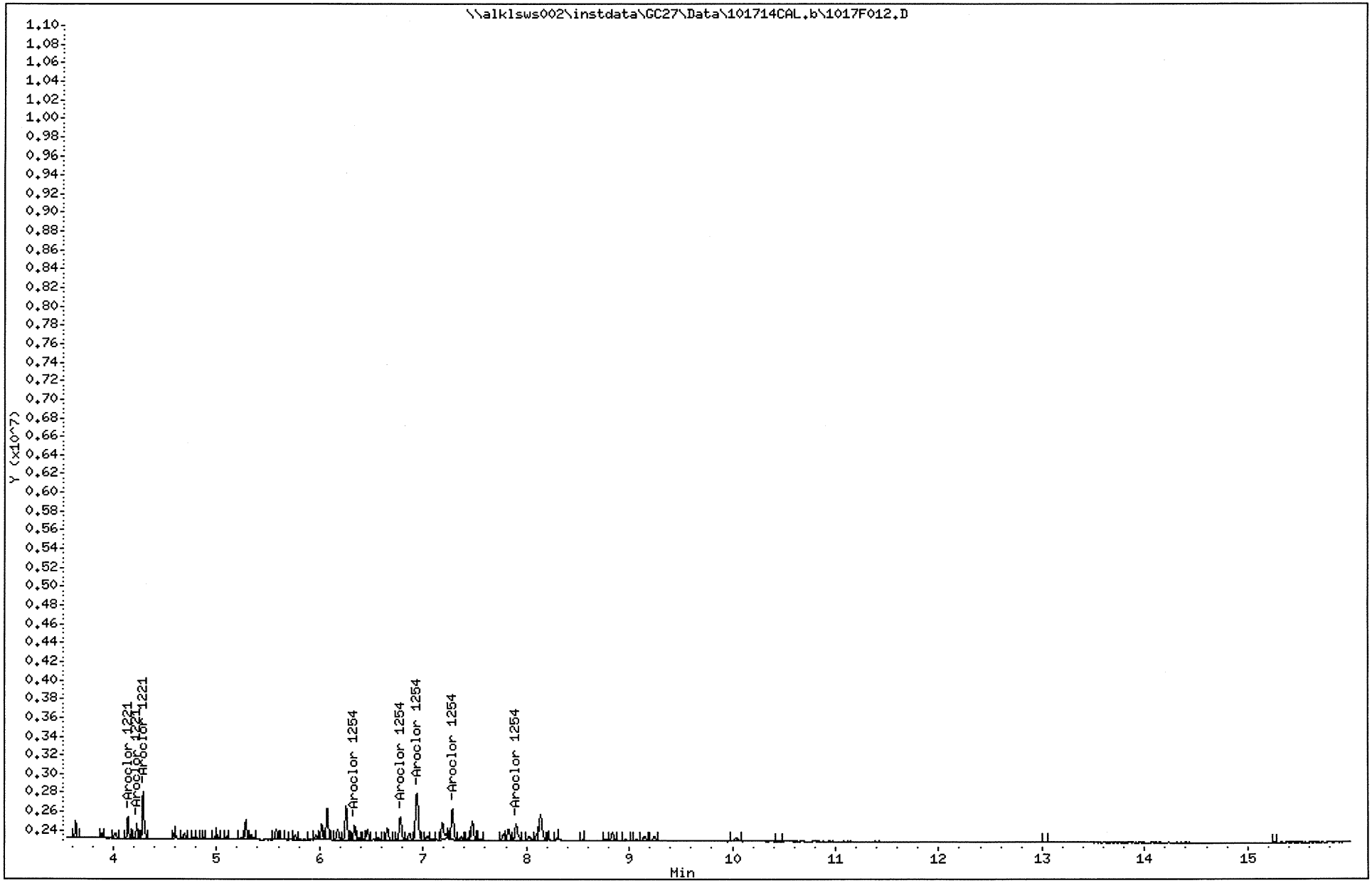
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



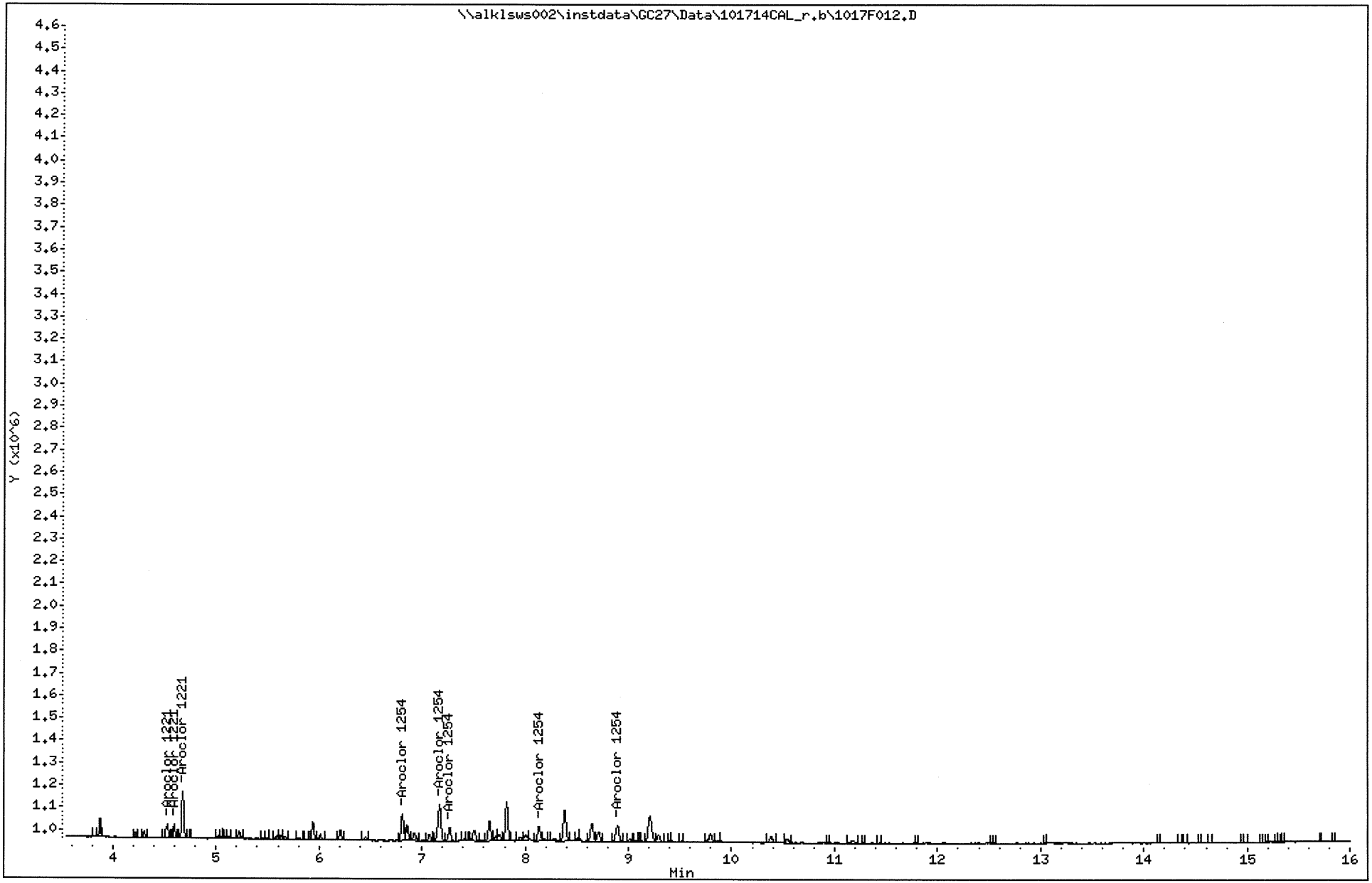
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

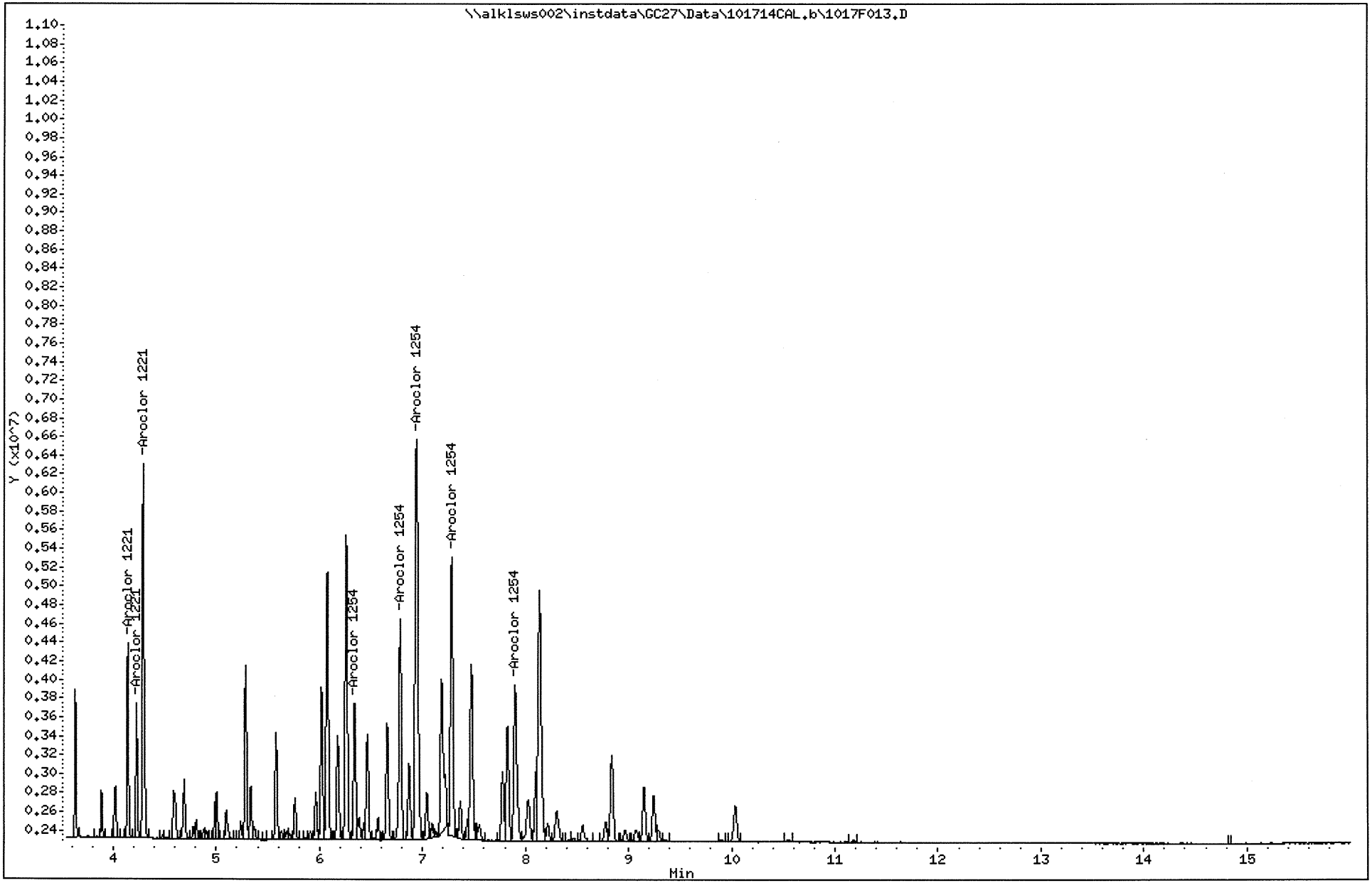
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



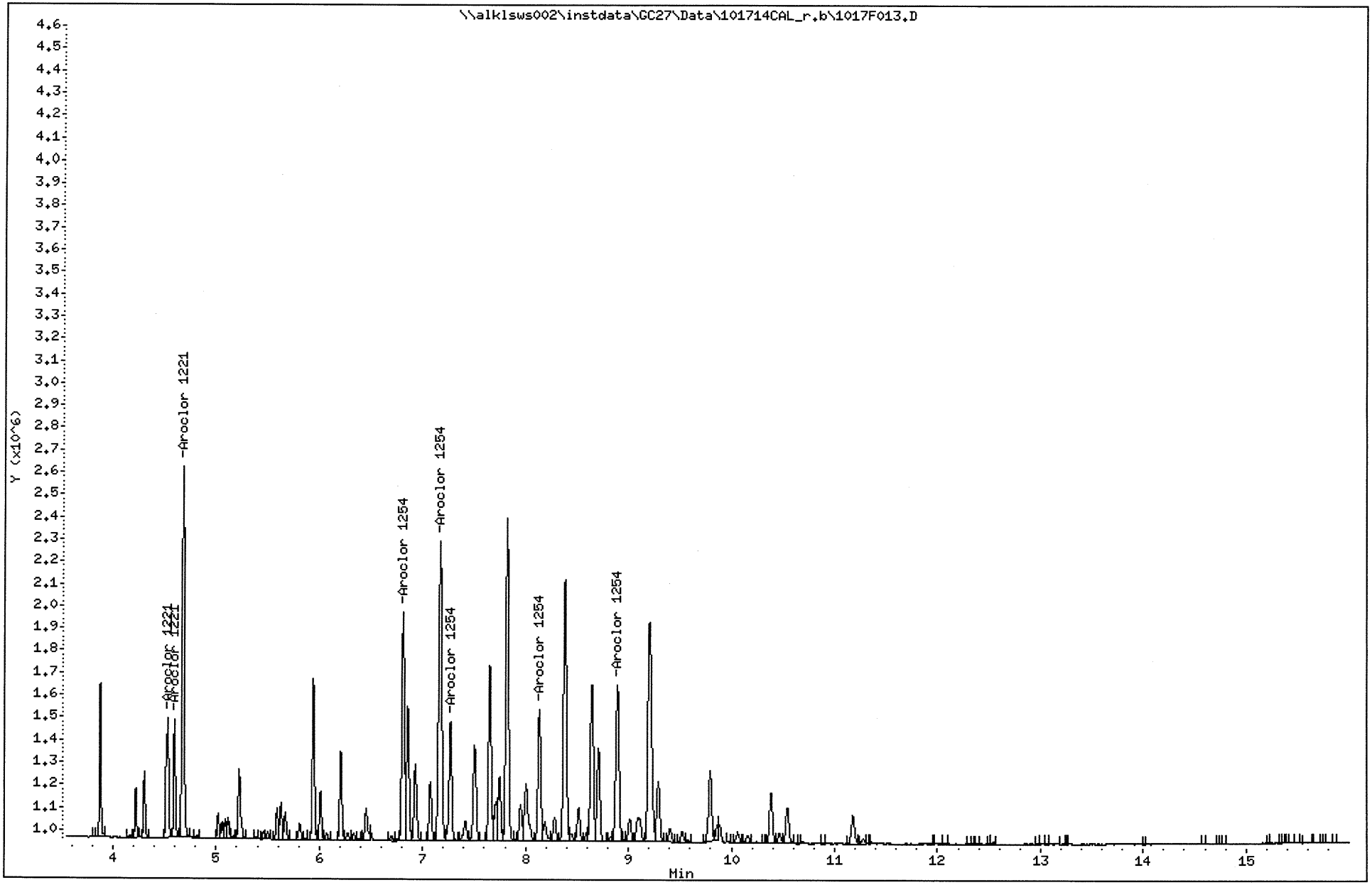
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

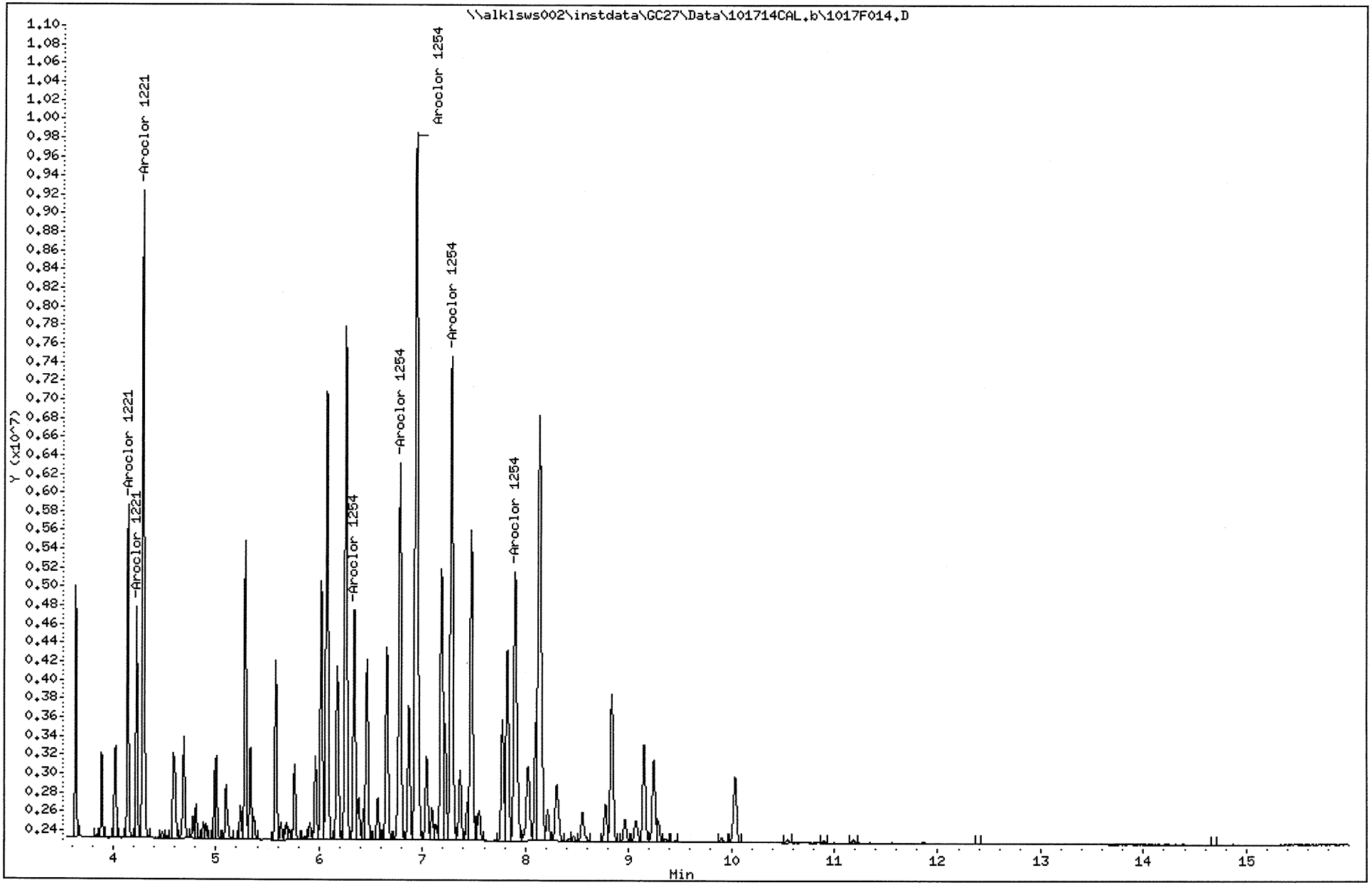
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



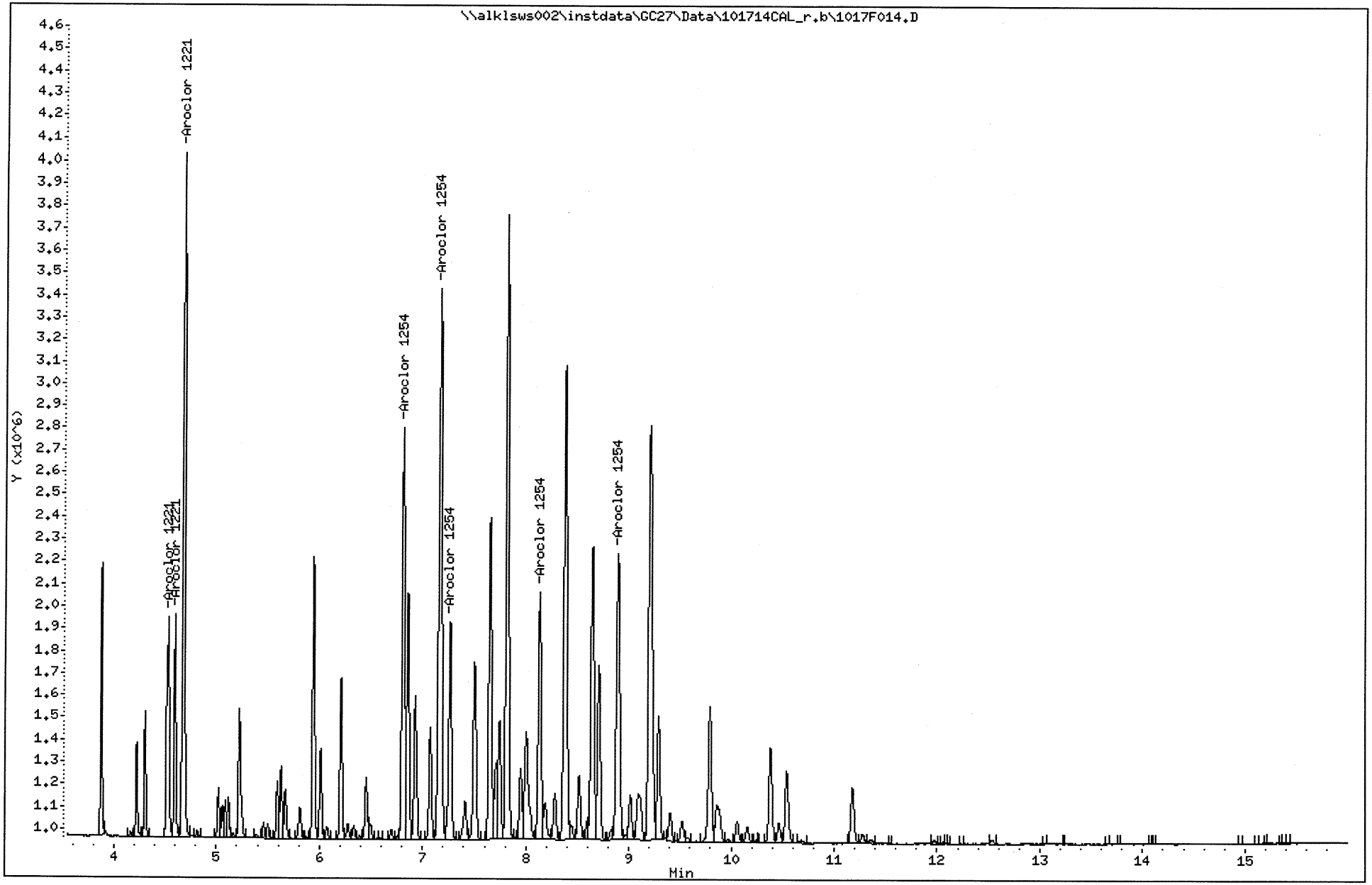
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

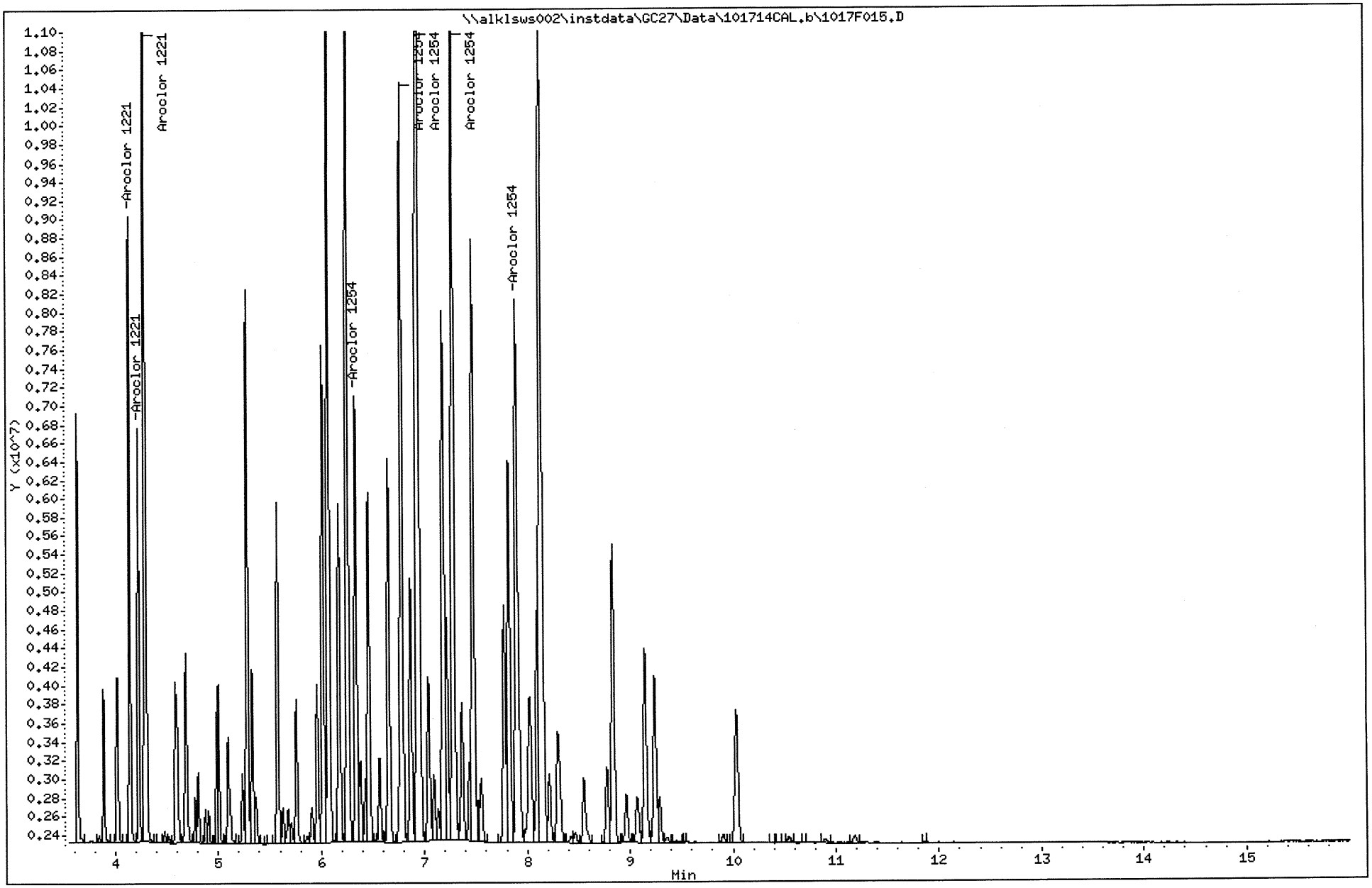
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

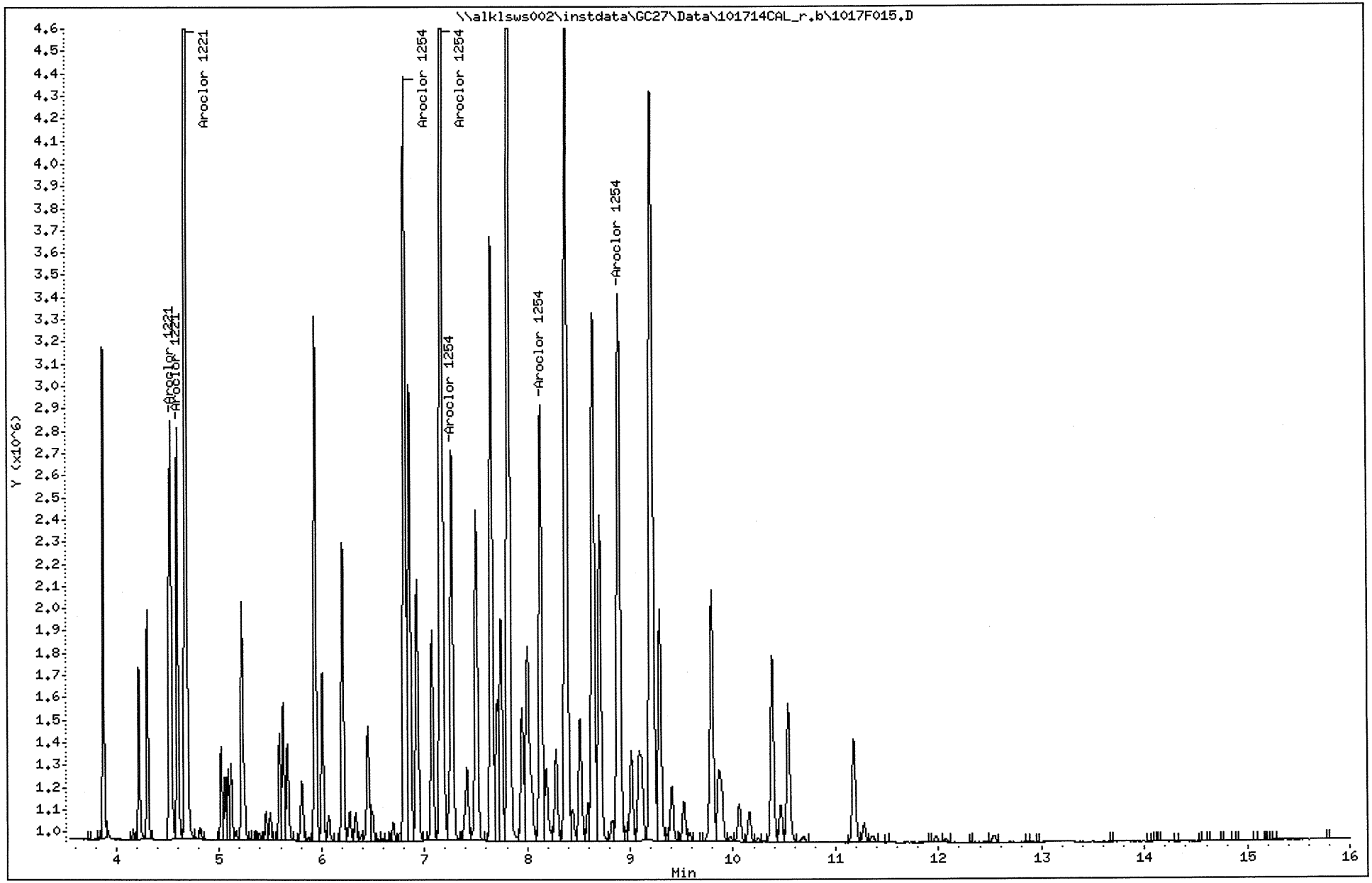


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

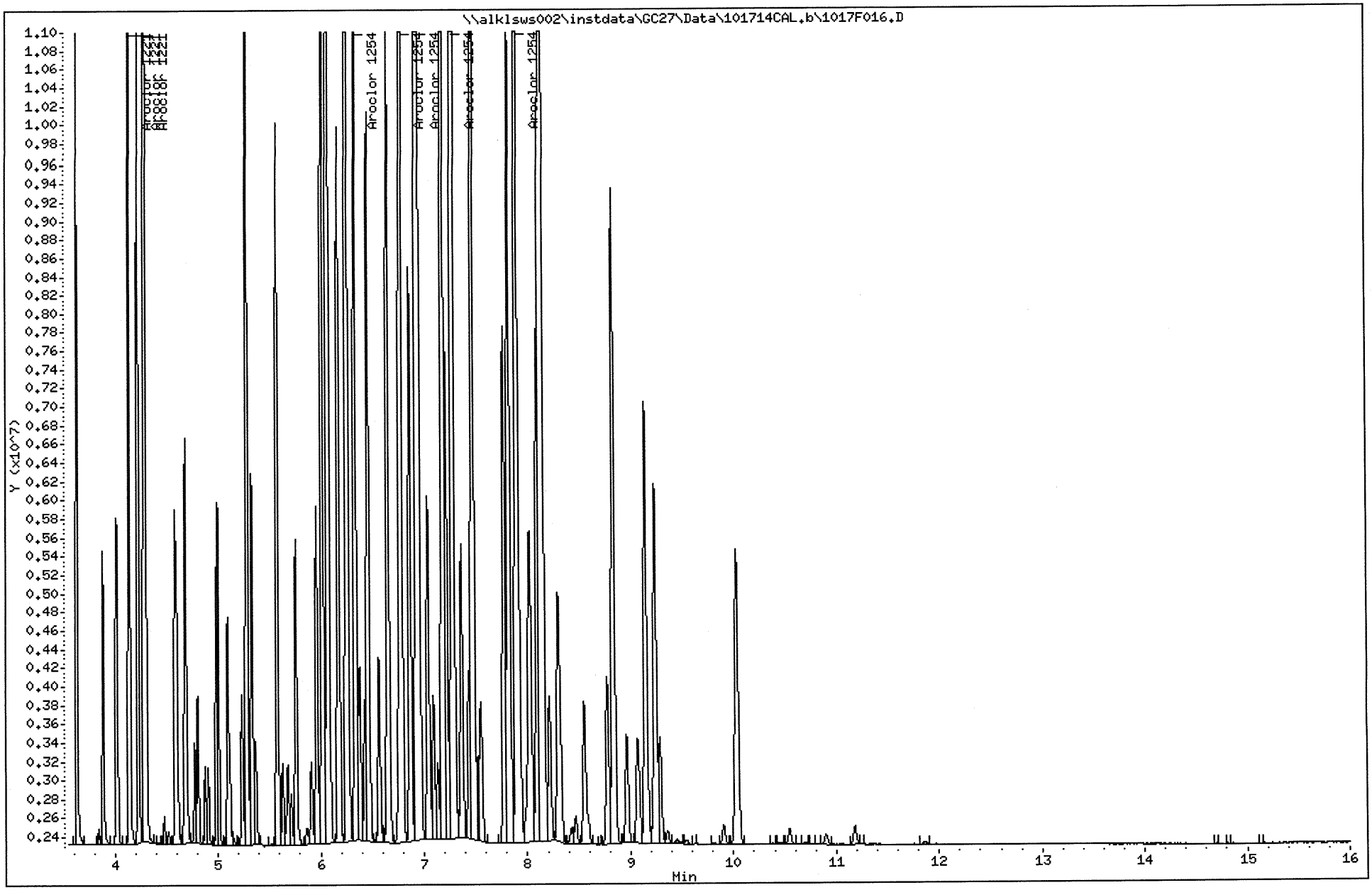
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



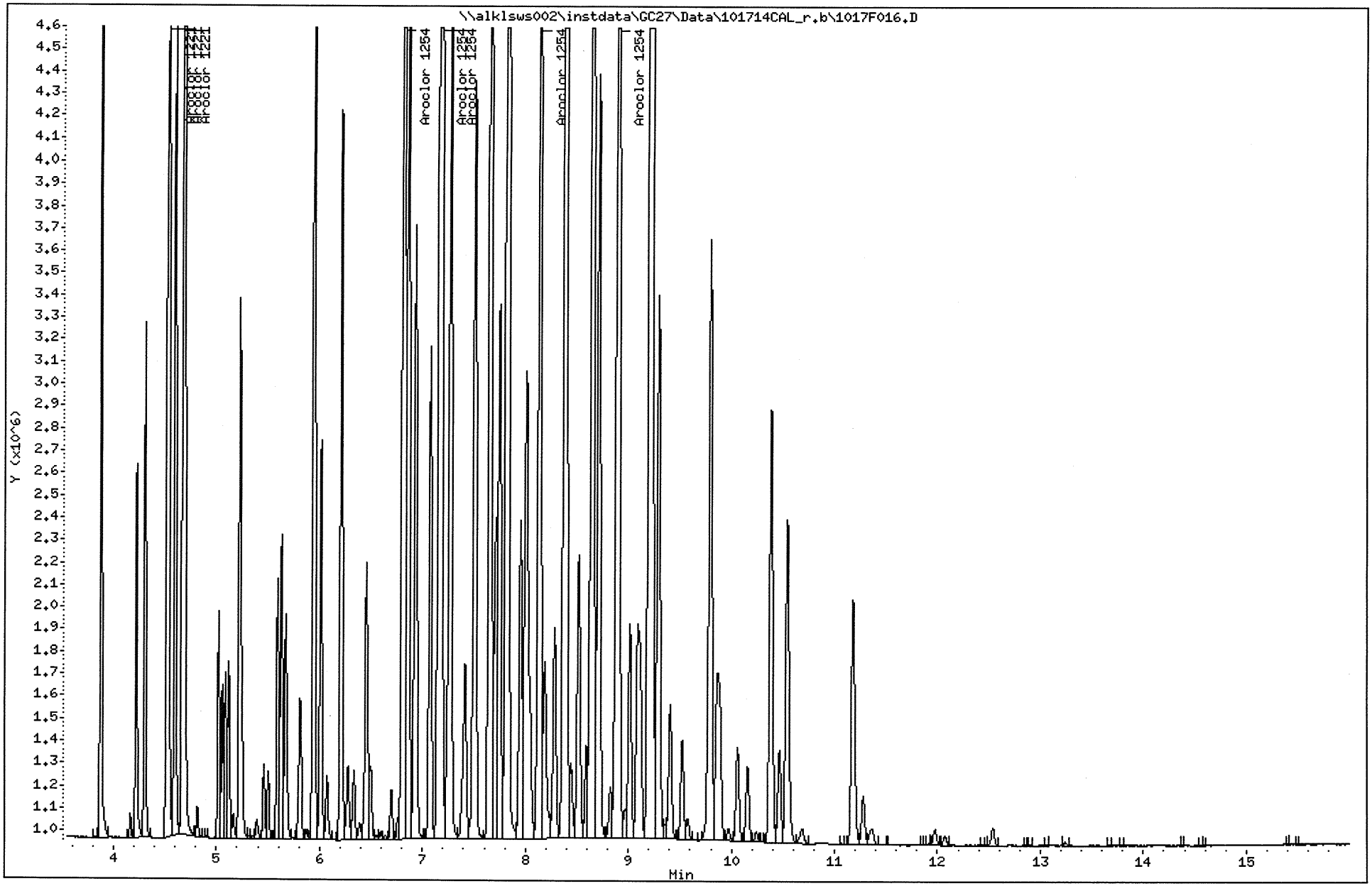
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

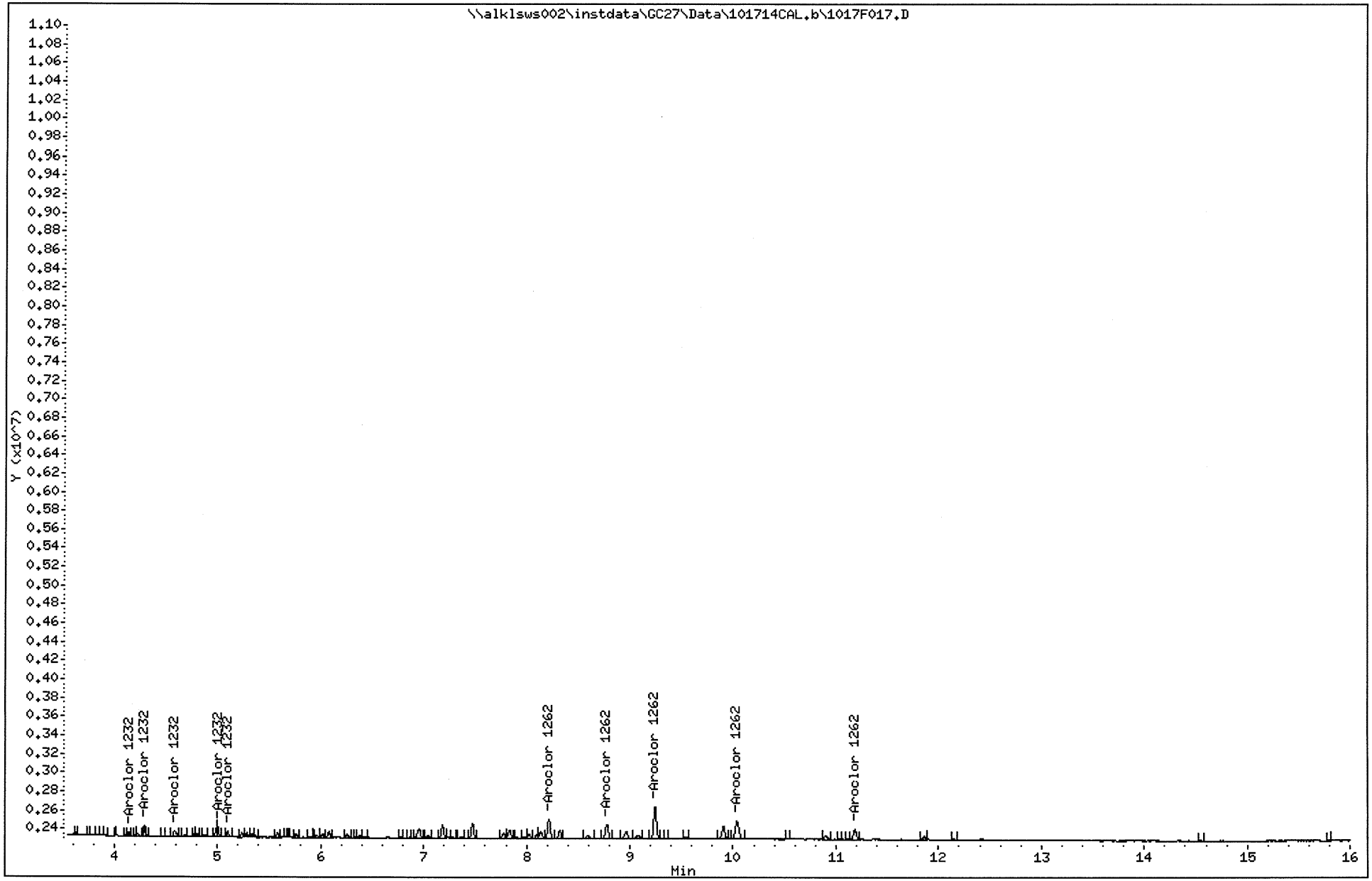
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



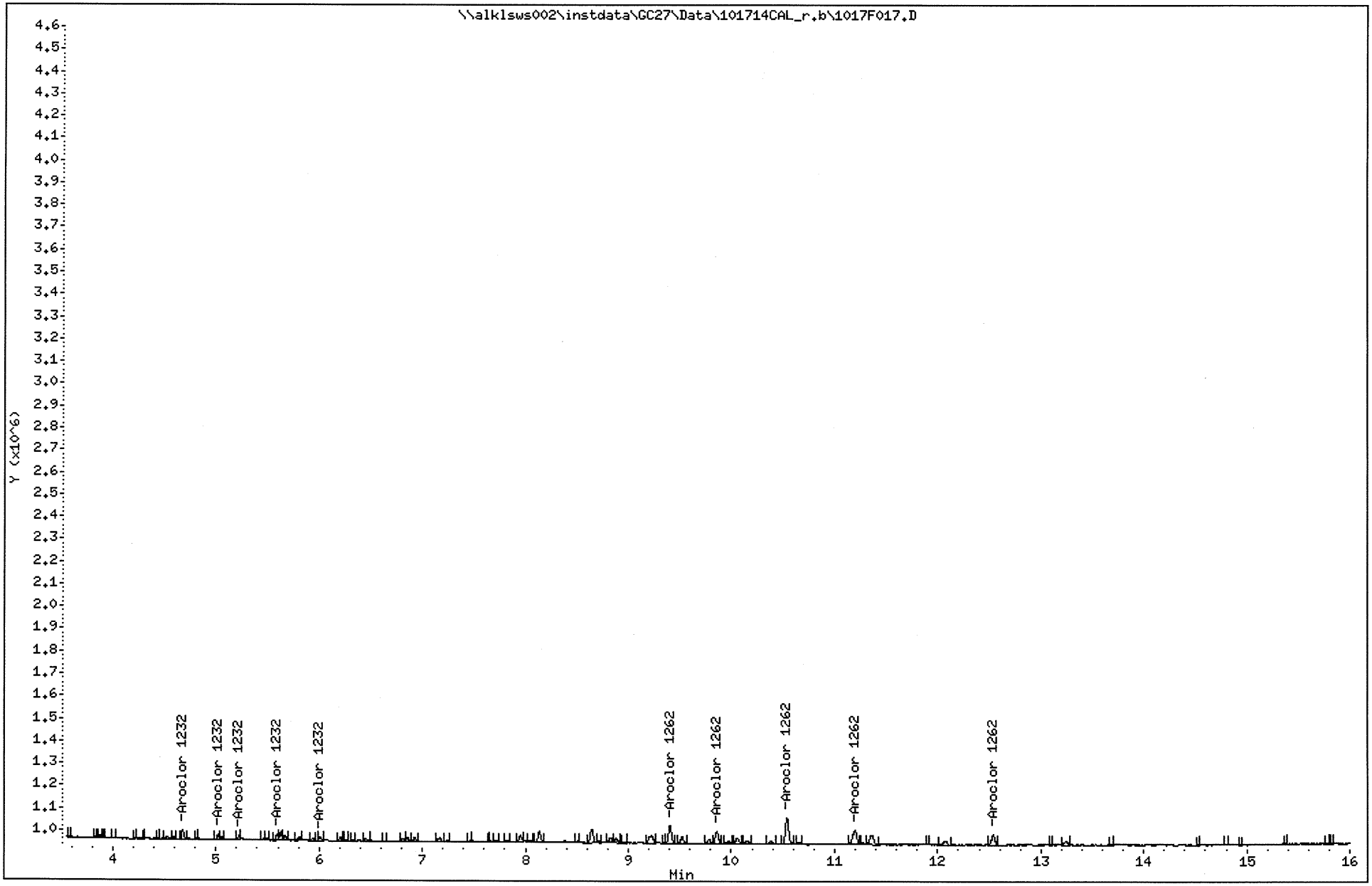
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

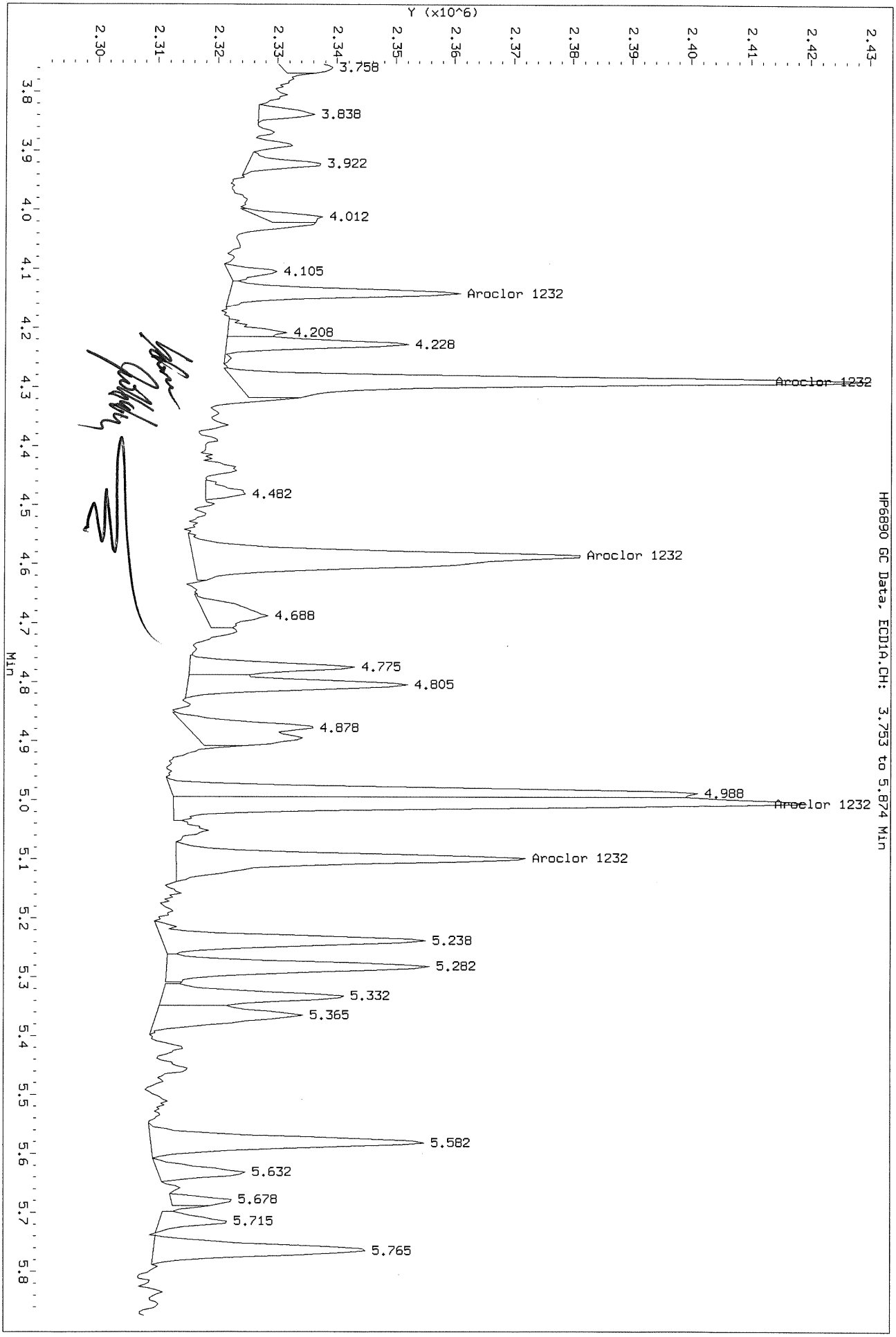
Operator: JMSmith

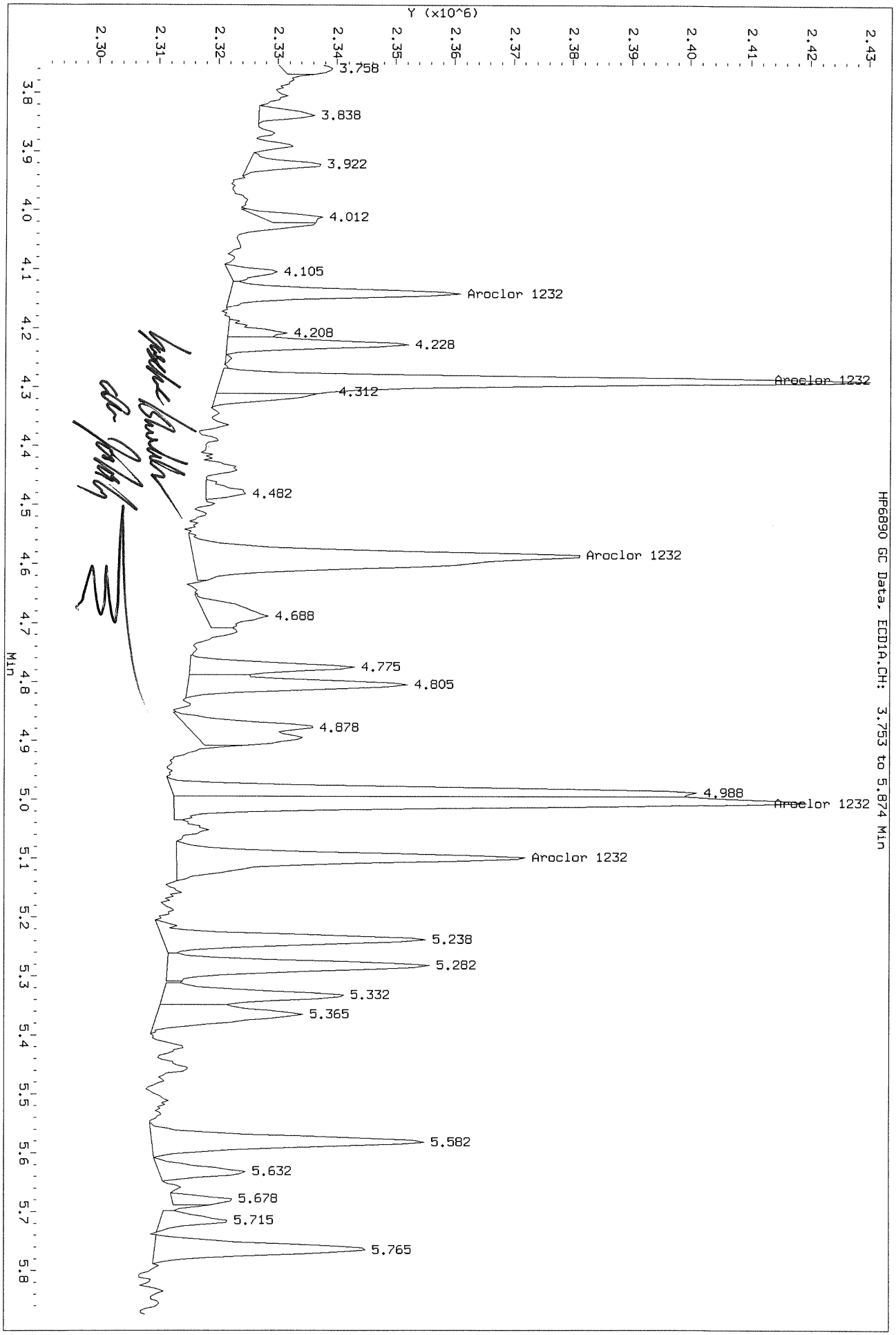
Column phase: DB-XLB

Column diameter: 0.32

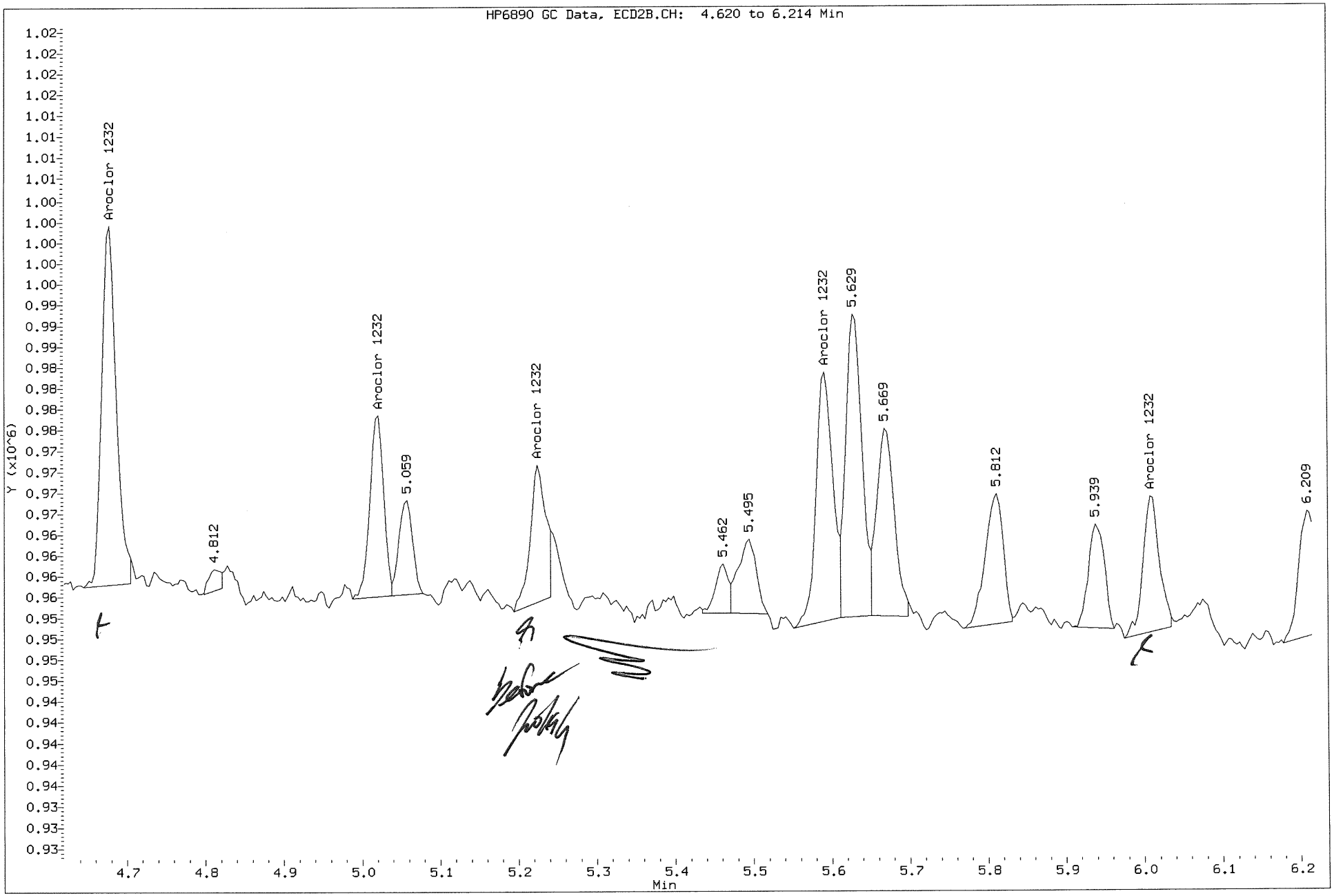


Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:

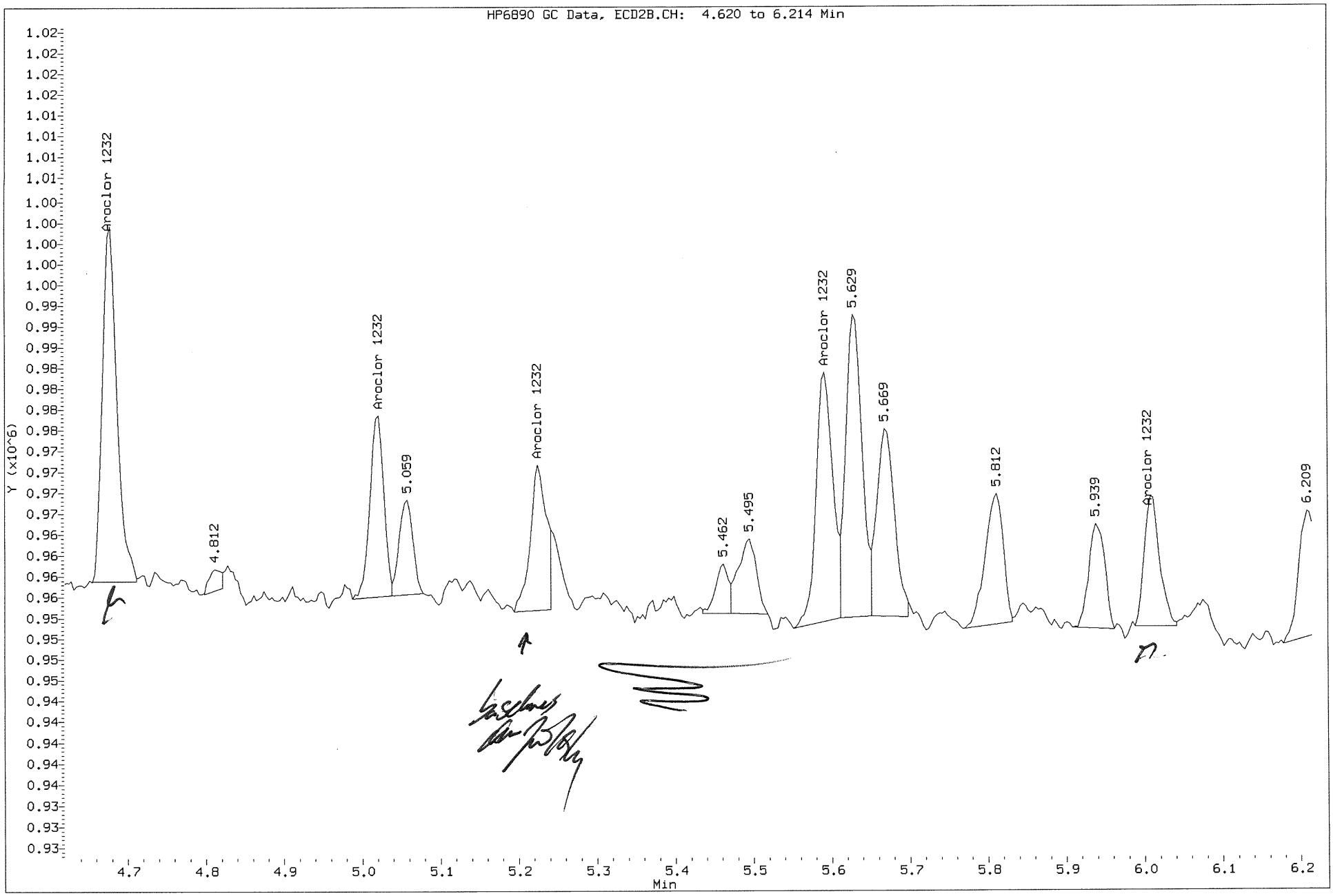



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 3.753 to 5.874 Min
Y (x10^6)
Min
3.758
3.838
3.922
4.012
4.105
Aroclor 1232
4.208
4.228
Aroclor 1232
4.312
4.482
Aroclor 1232
4.688
4.775
4.805
4.878
4.988
Aroclor 1232
Aroclor 1232
5.238
5.282
5.332
5.365
5.582
5.632
5.678
5.715
5.765

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

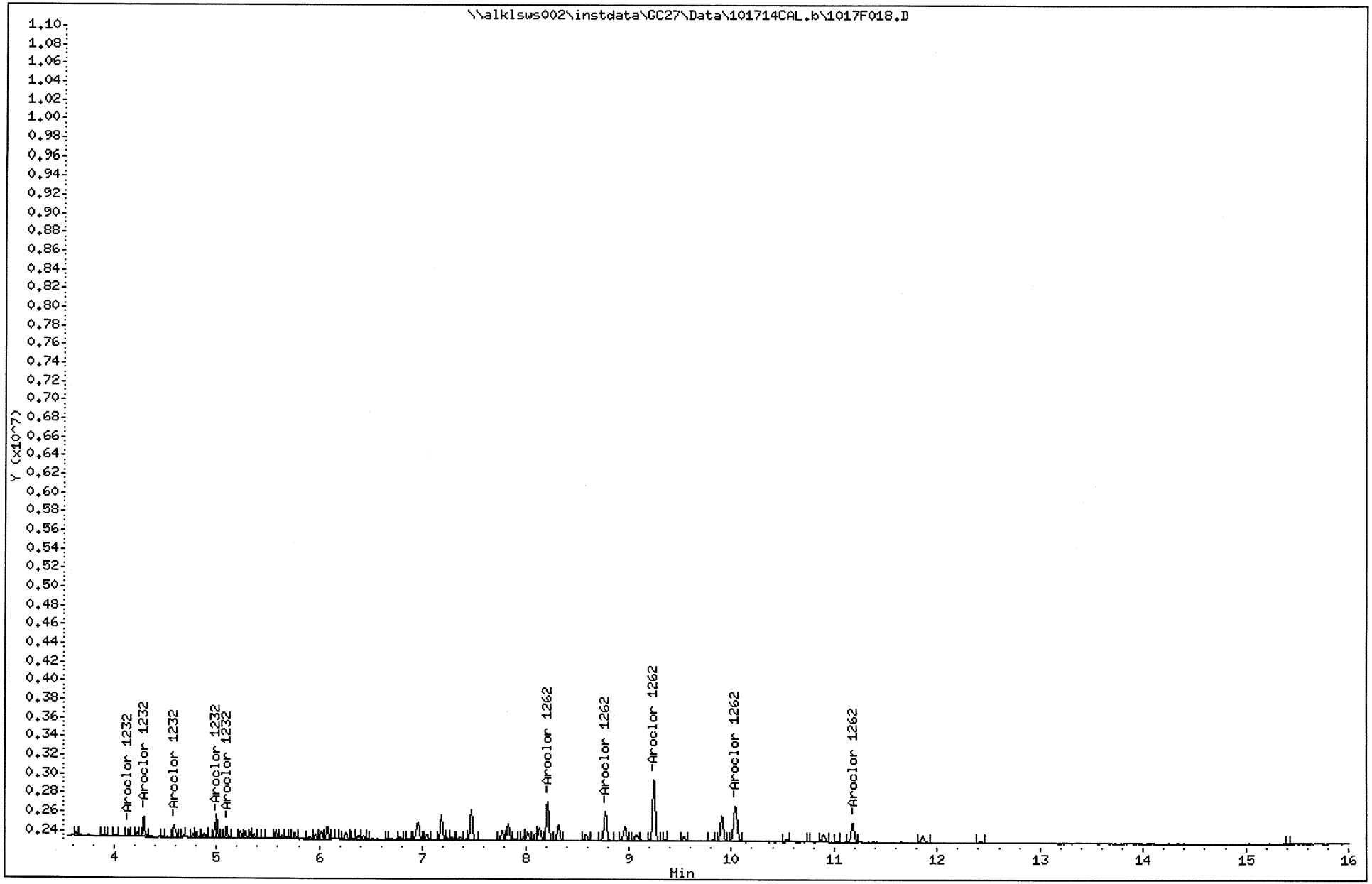
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



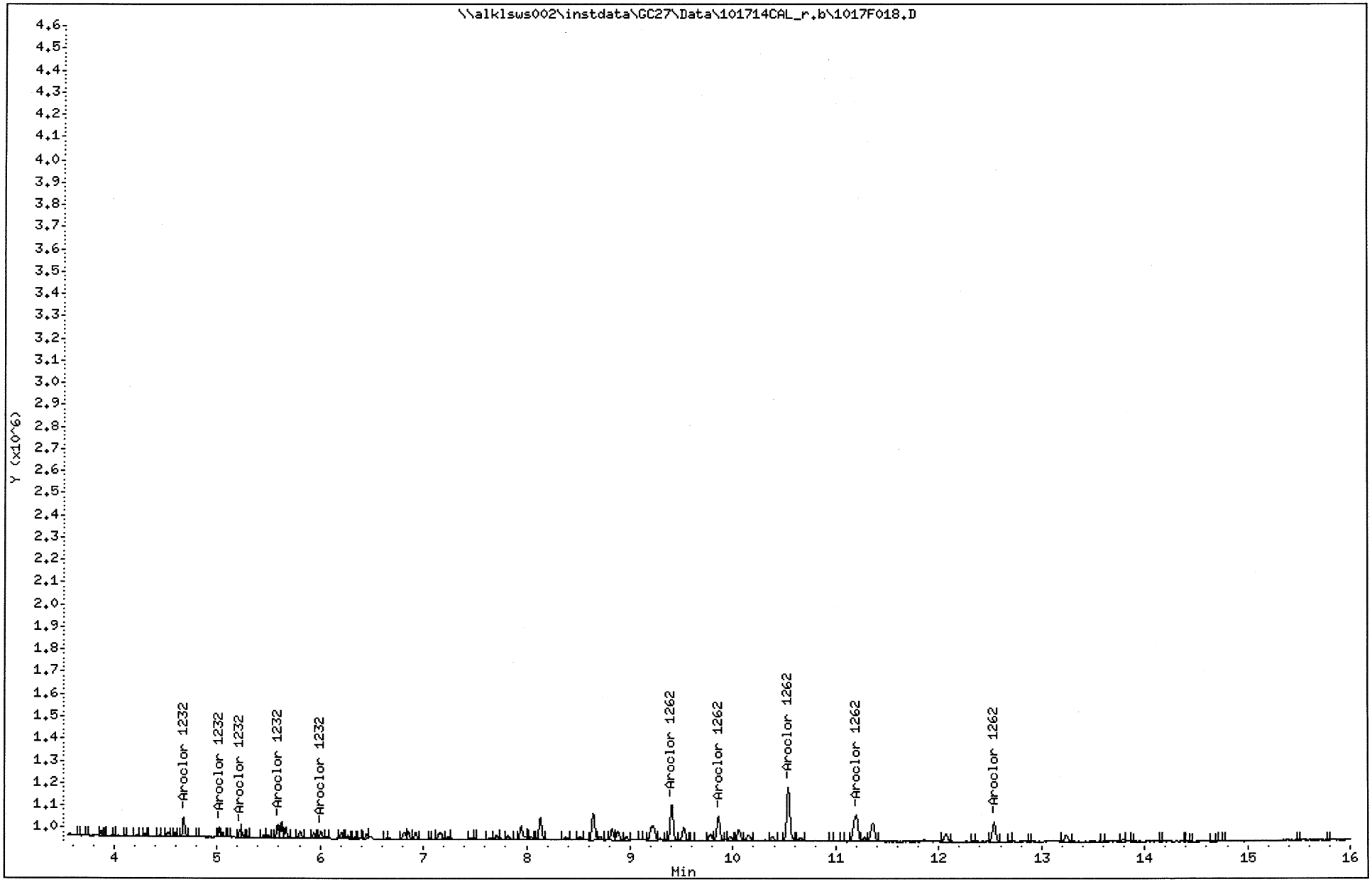
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

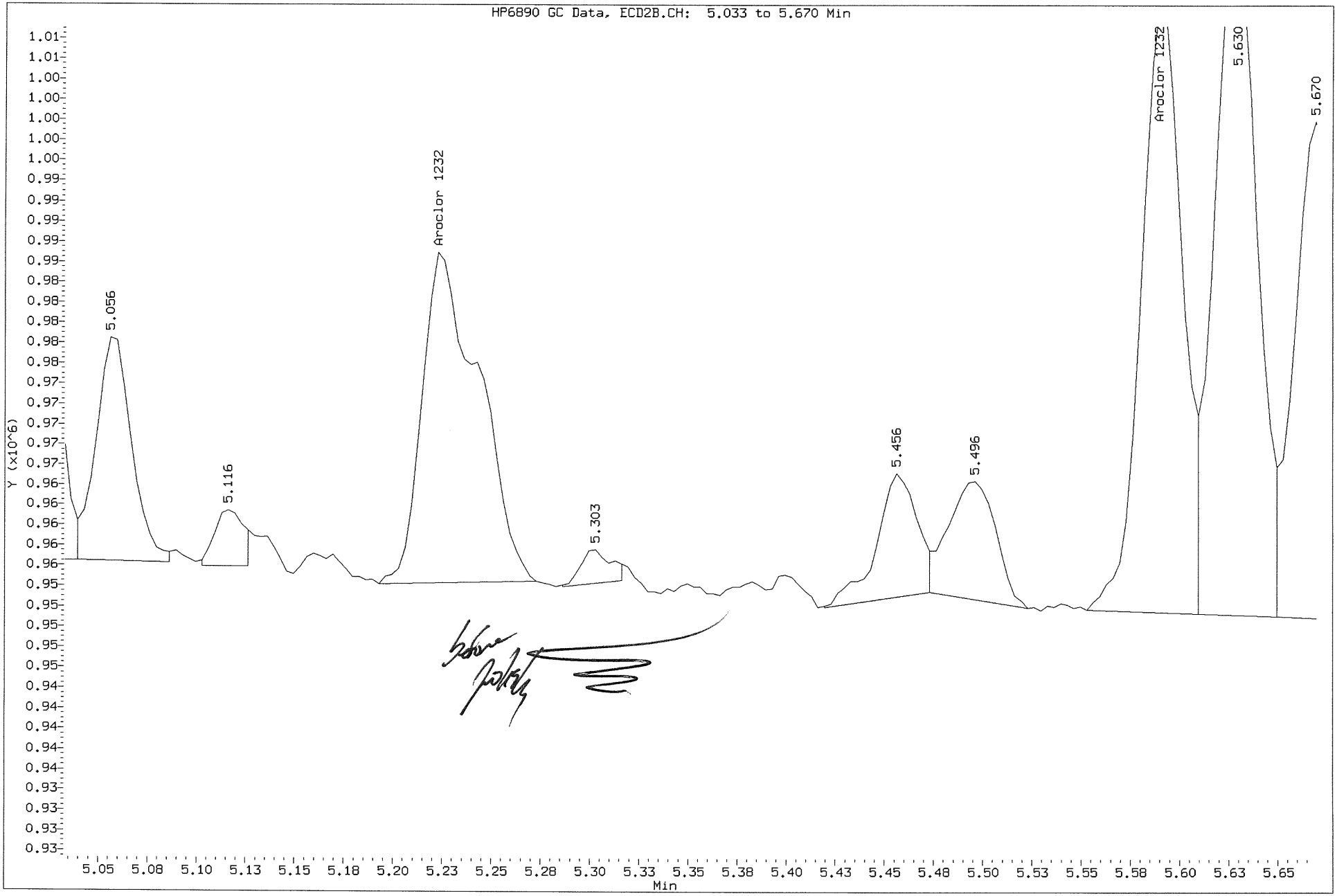
Operator: JMSmith

Column phase: DB-XLB

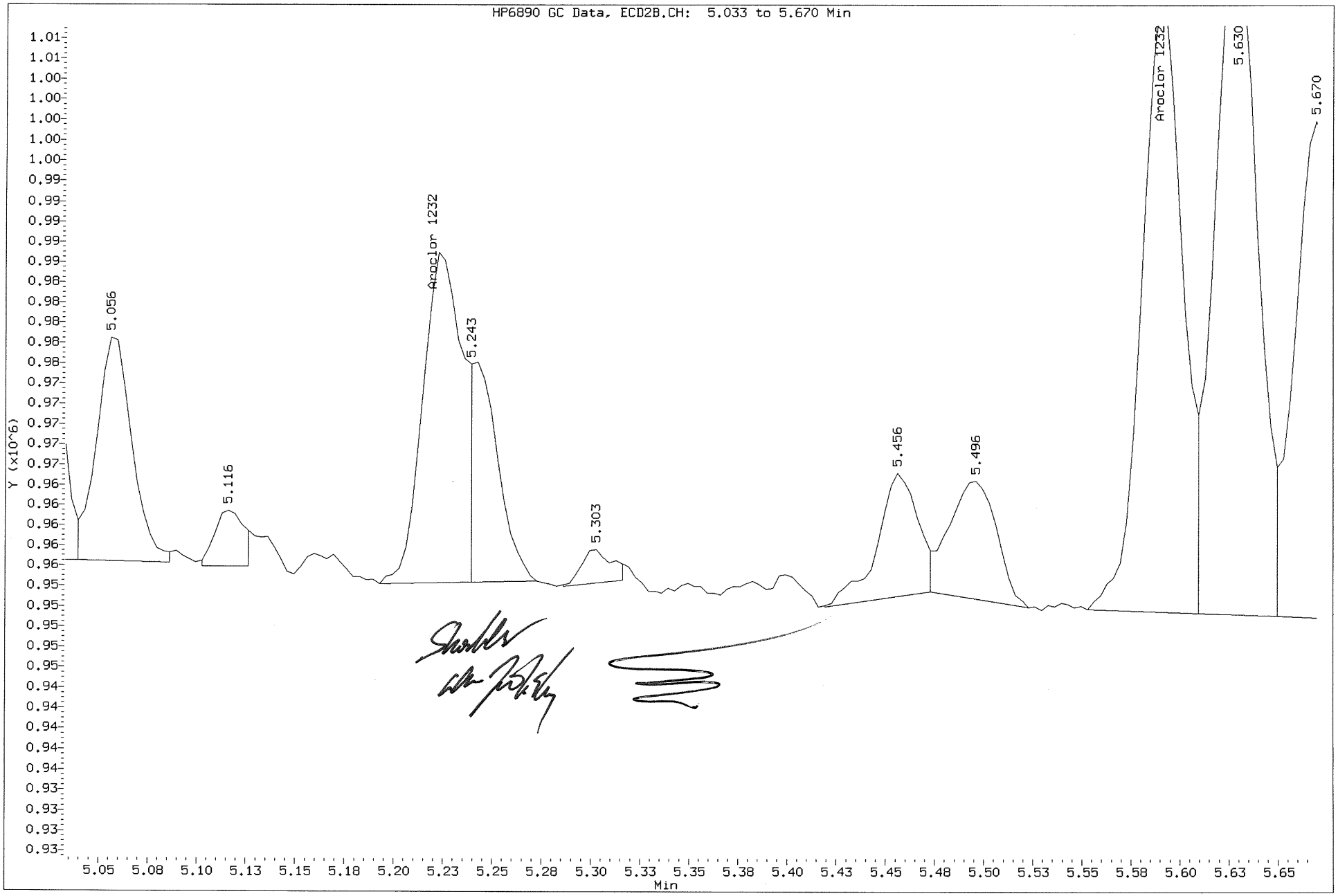
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

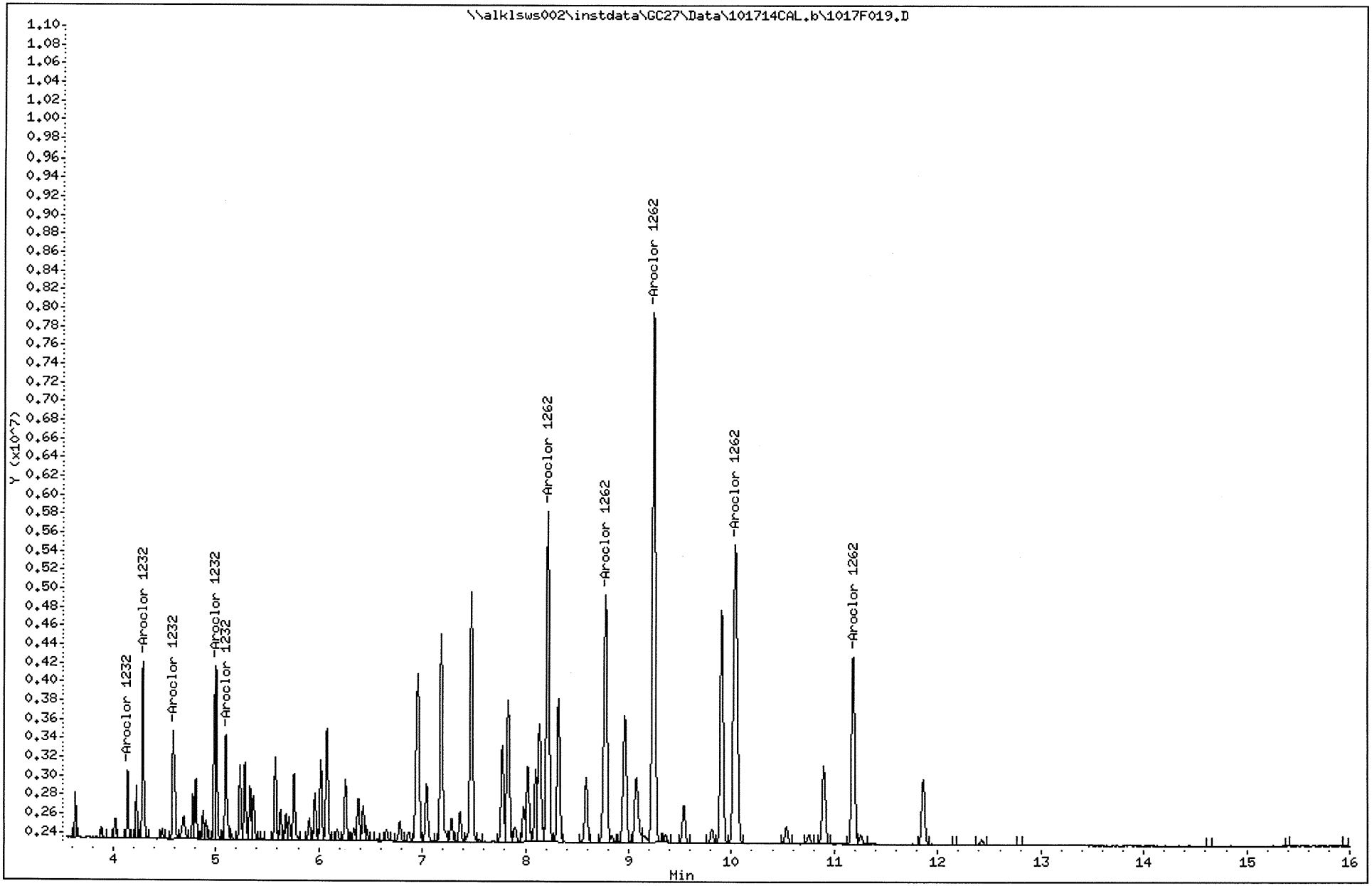
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



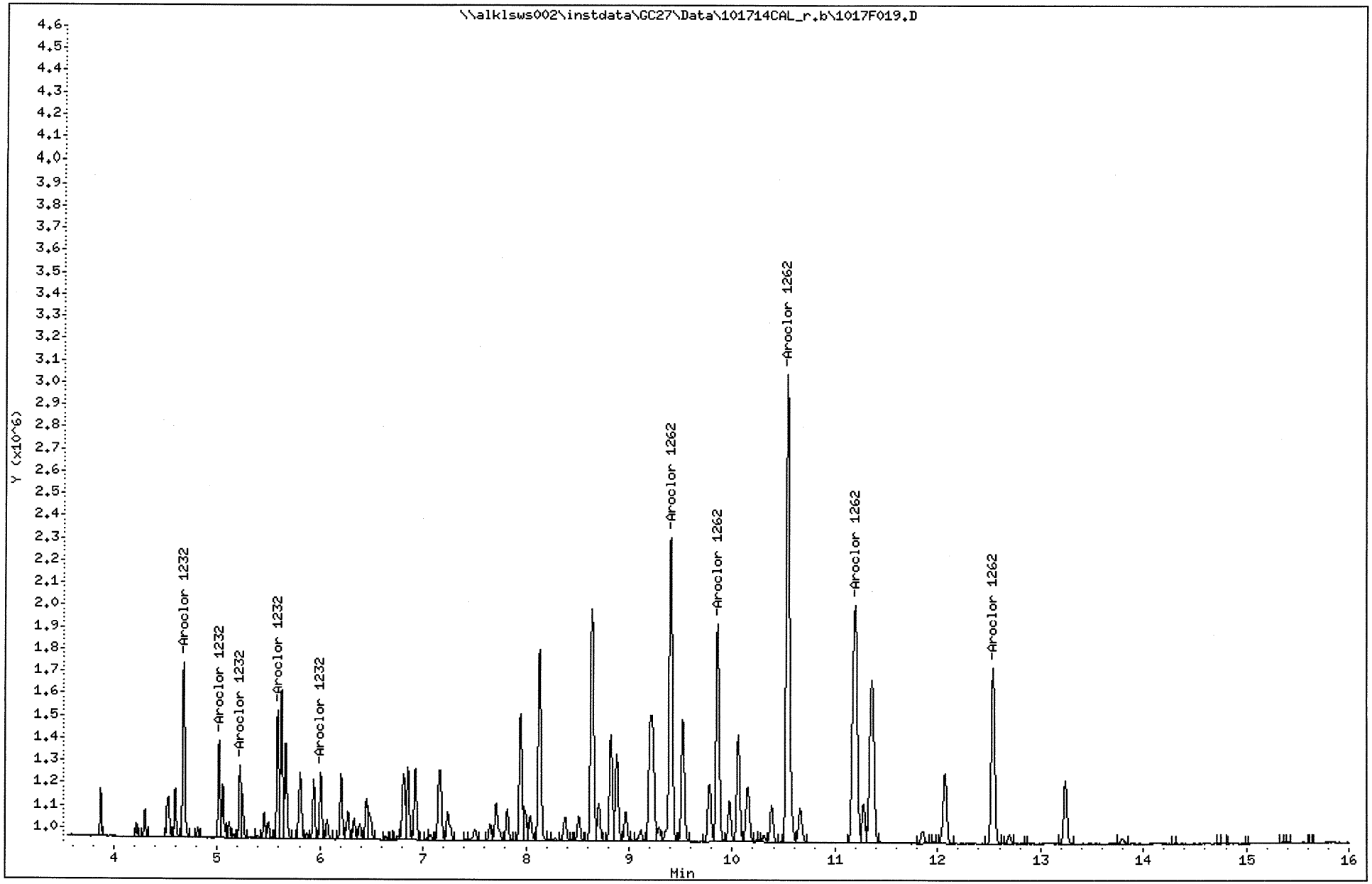
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

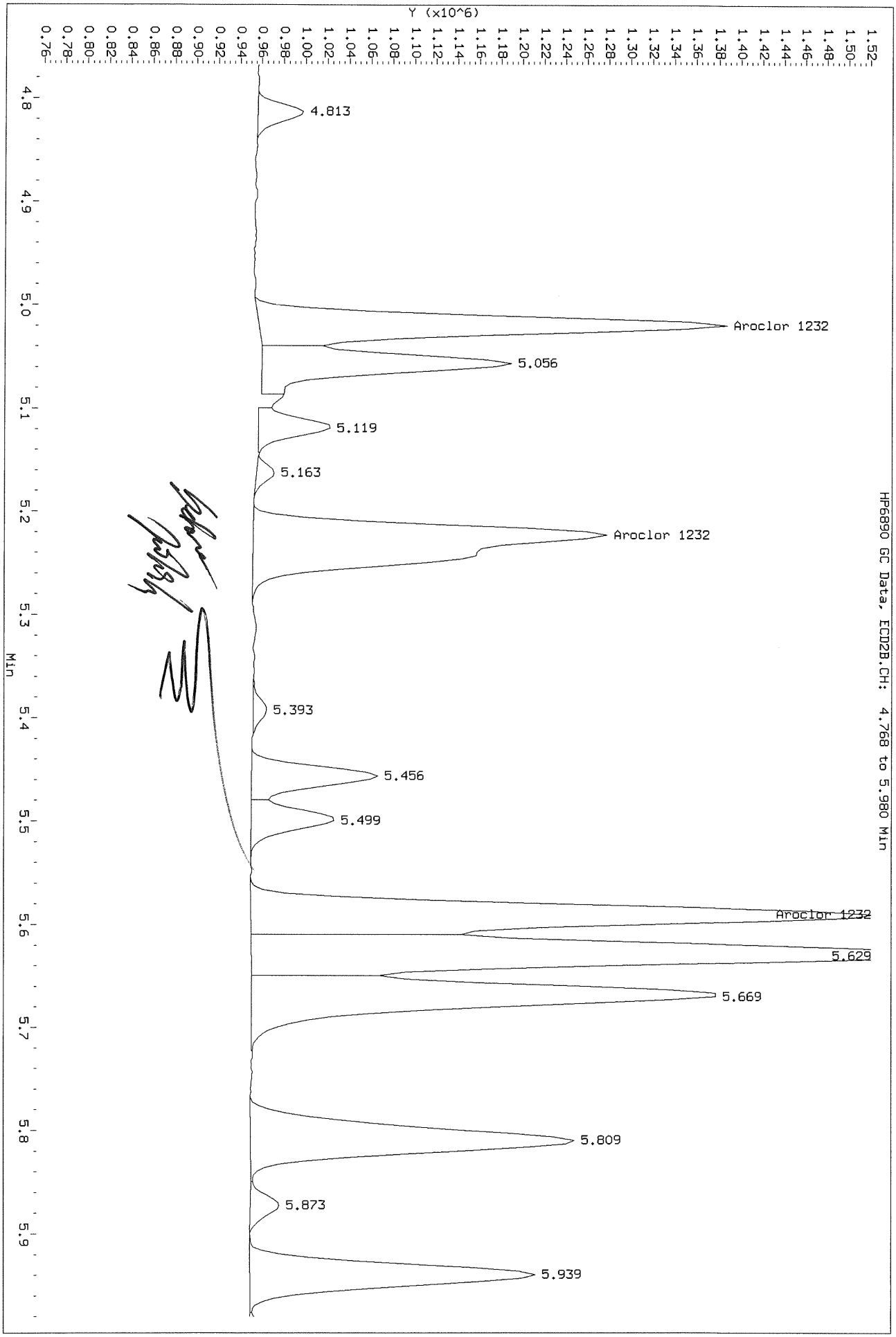
Column phase: DB-XLB

Column diameter: 0.32

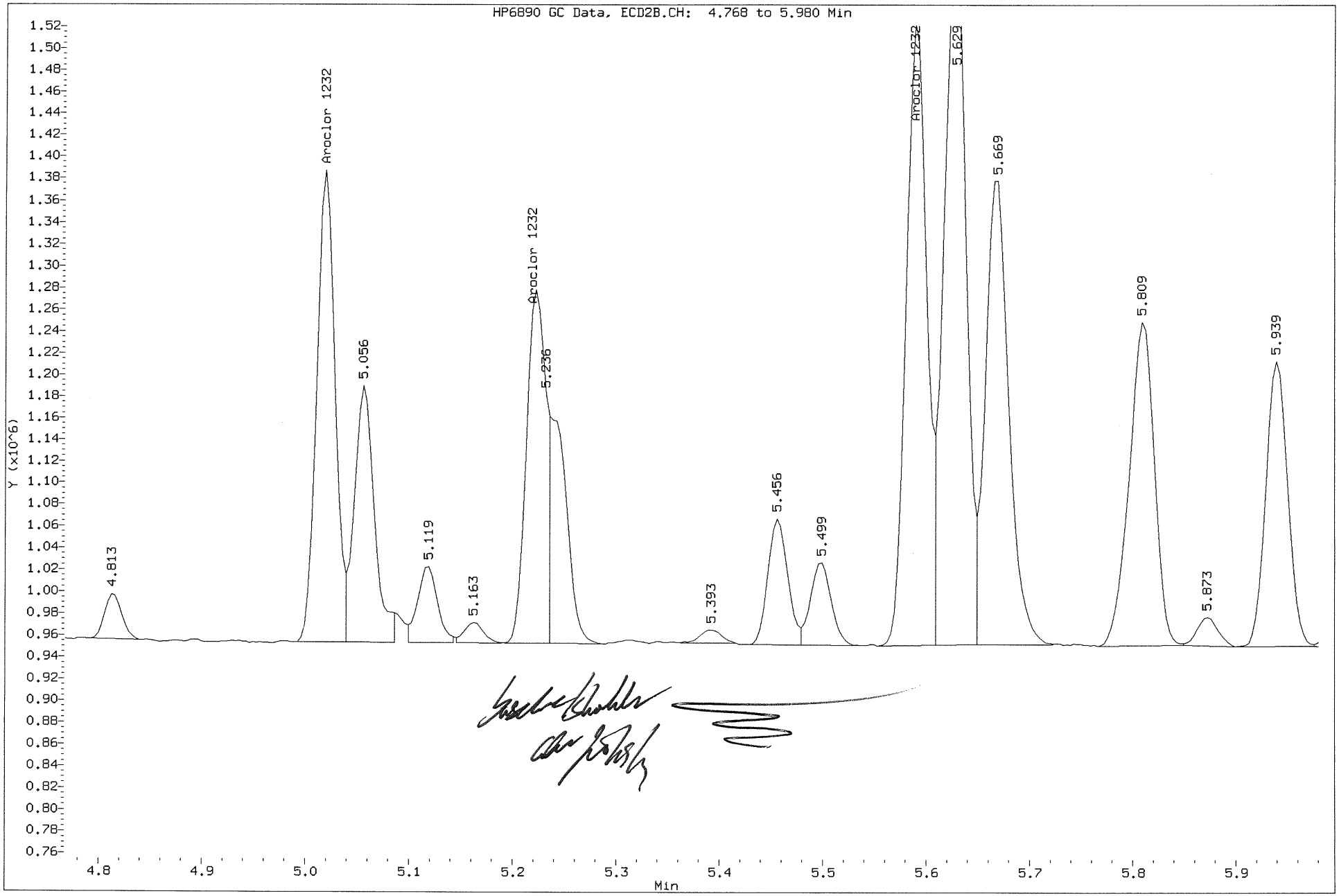


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

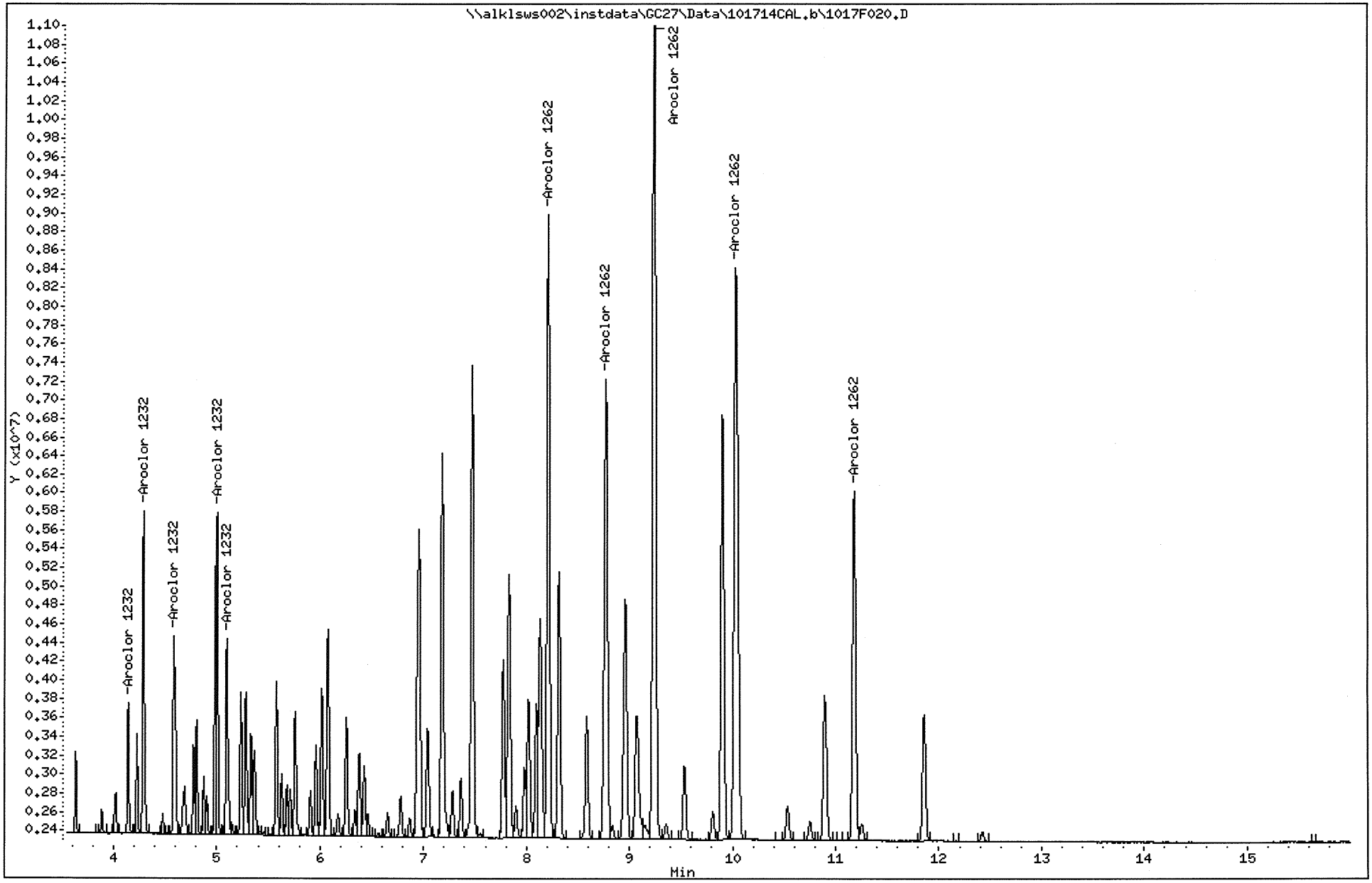
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

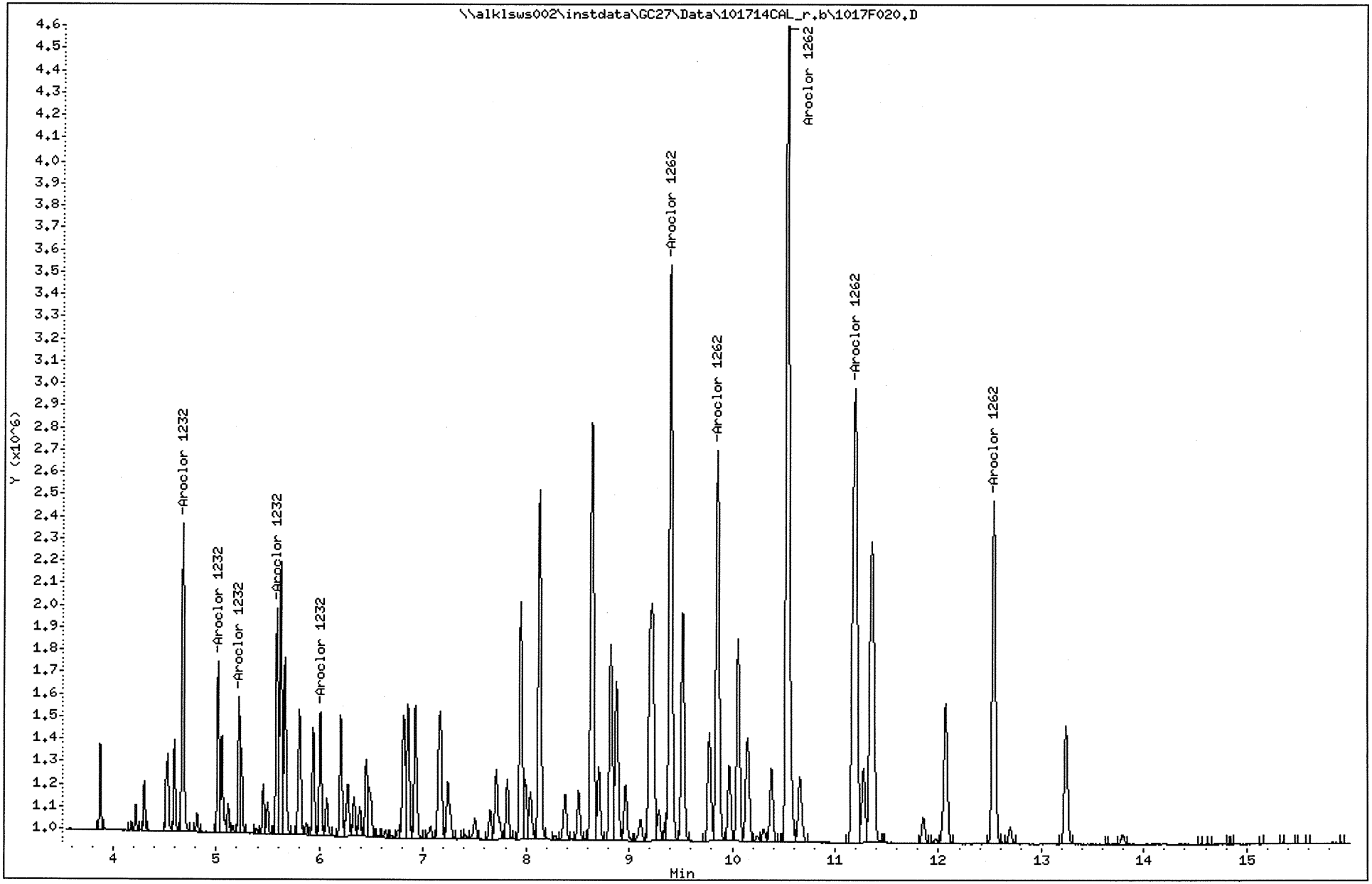


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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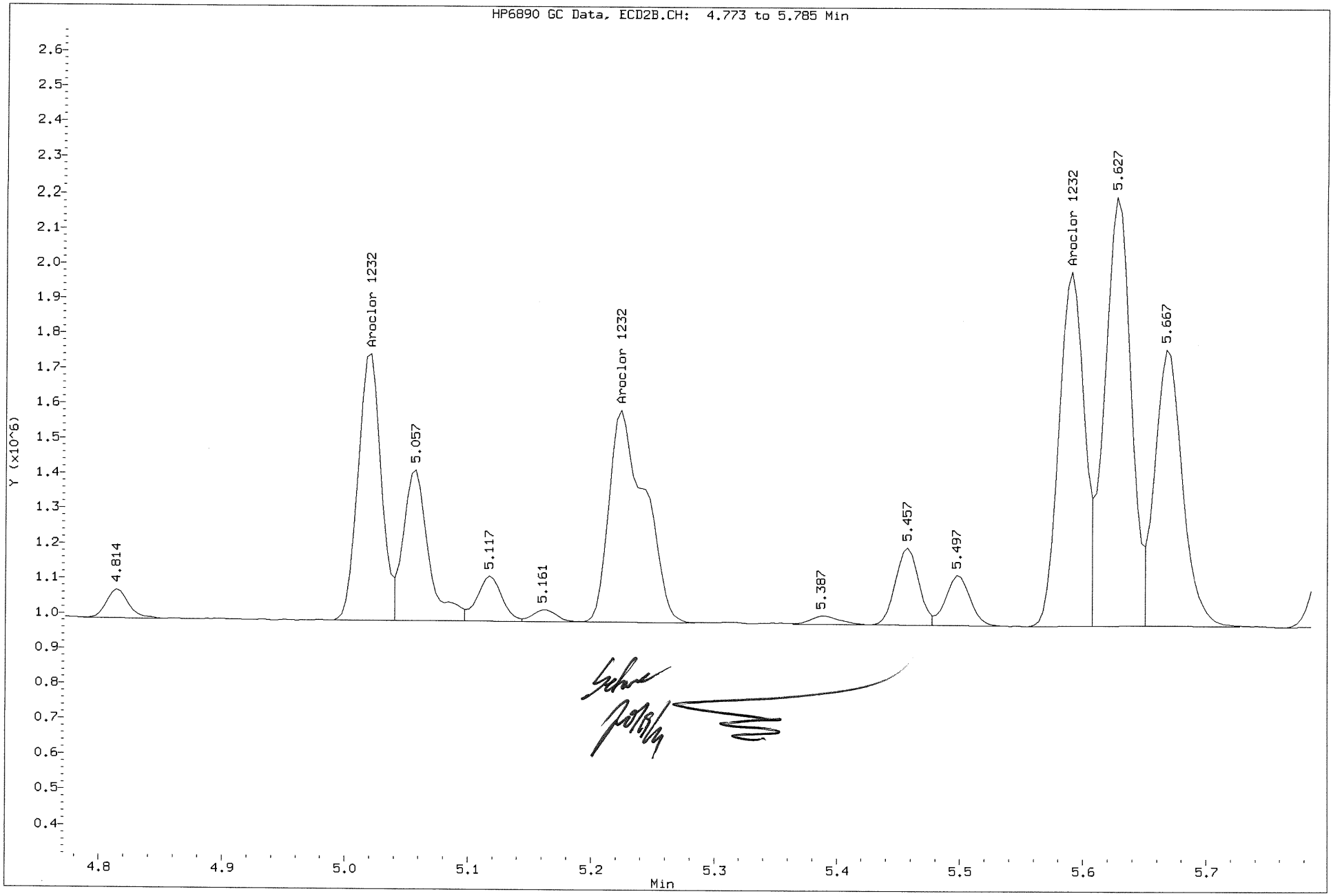
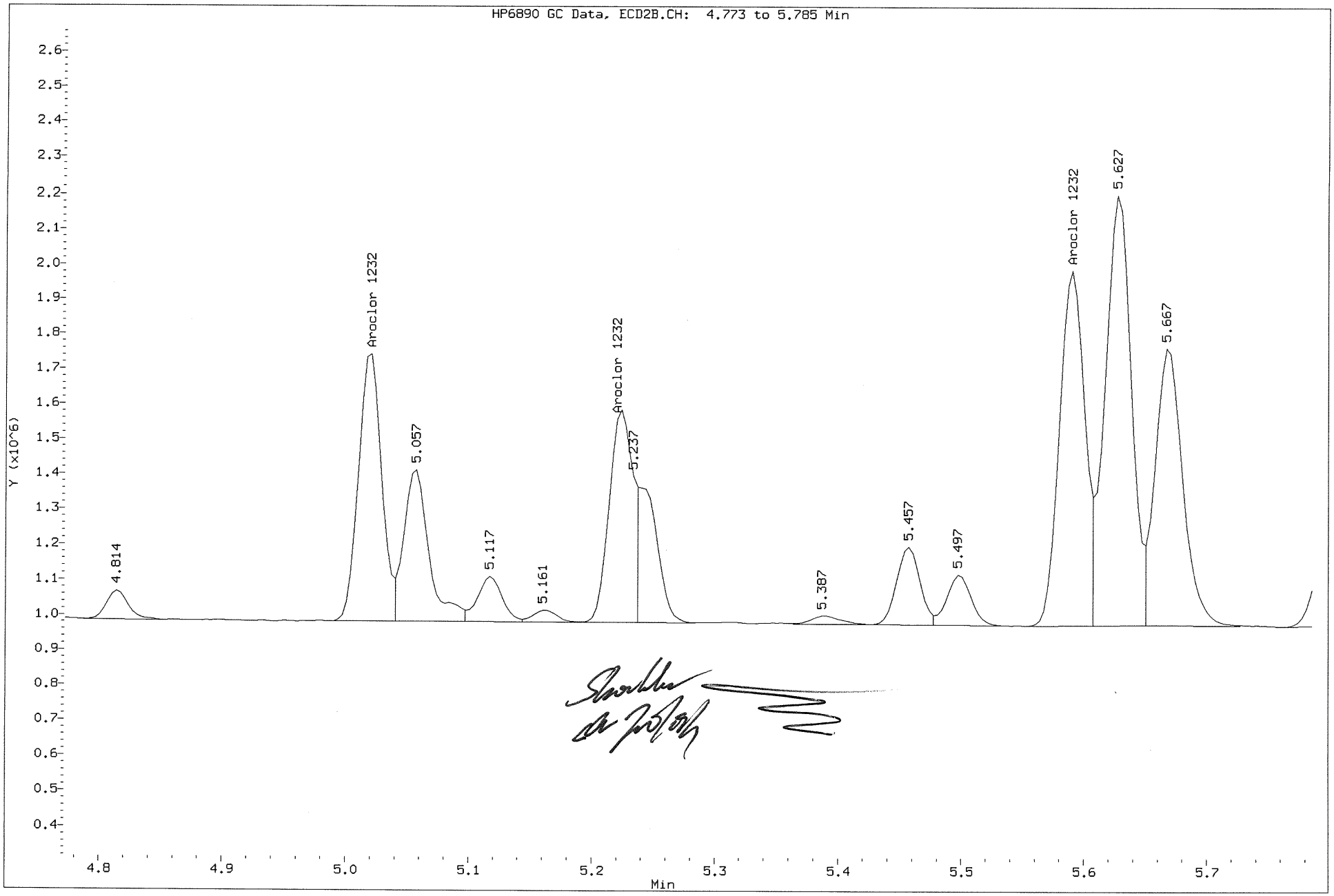
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

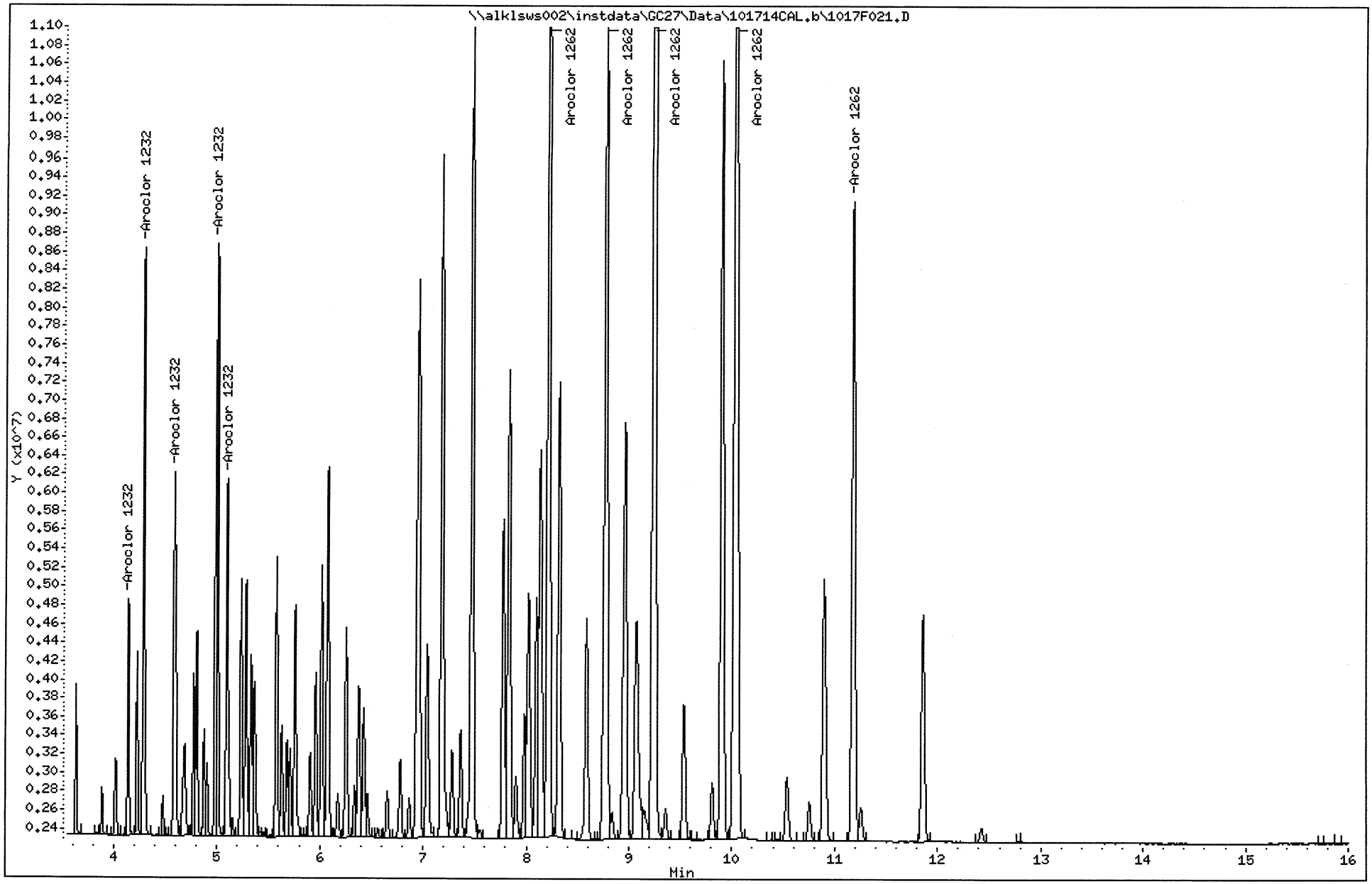
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

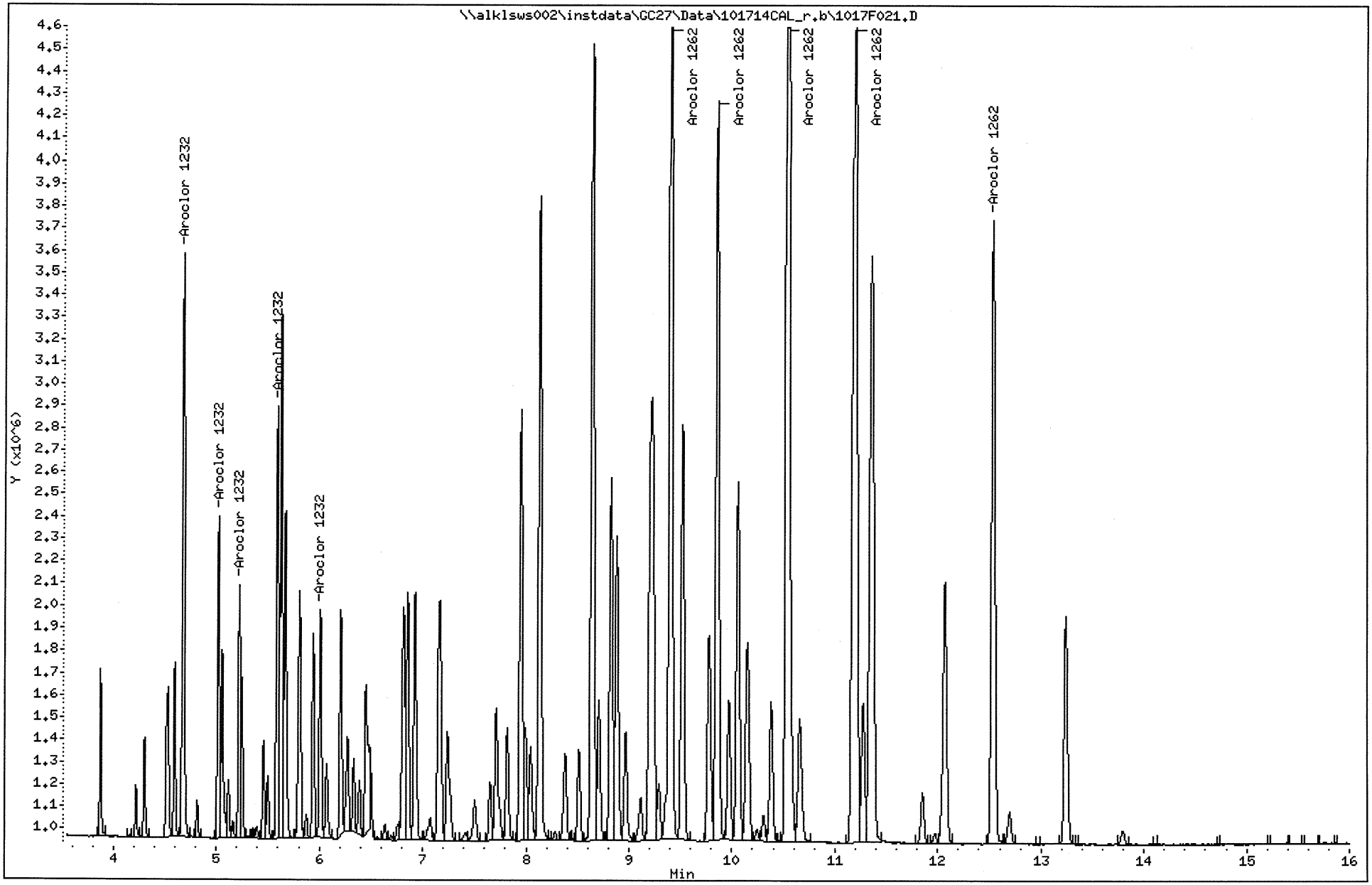


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

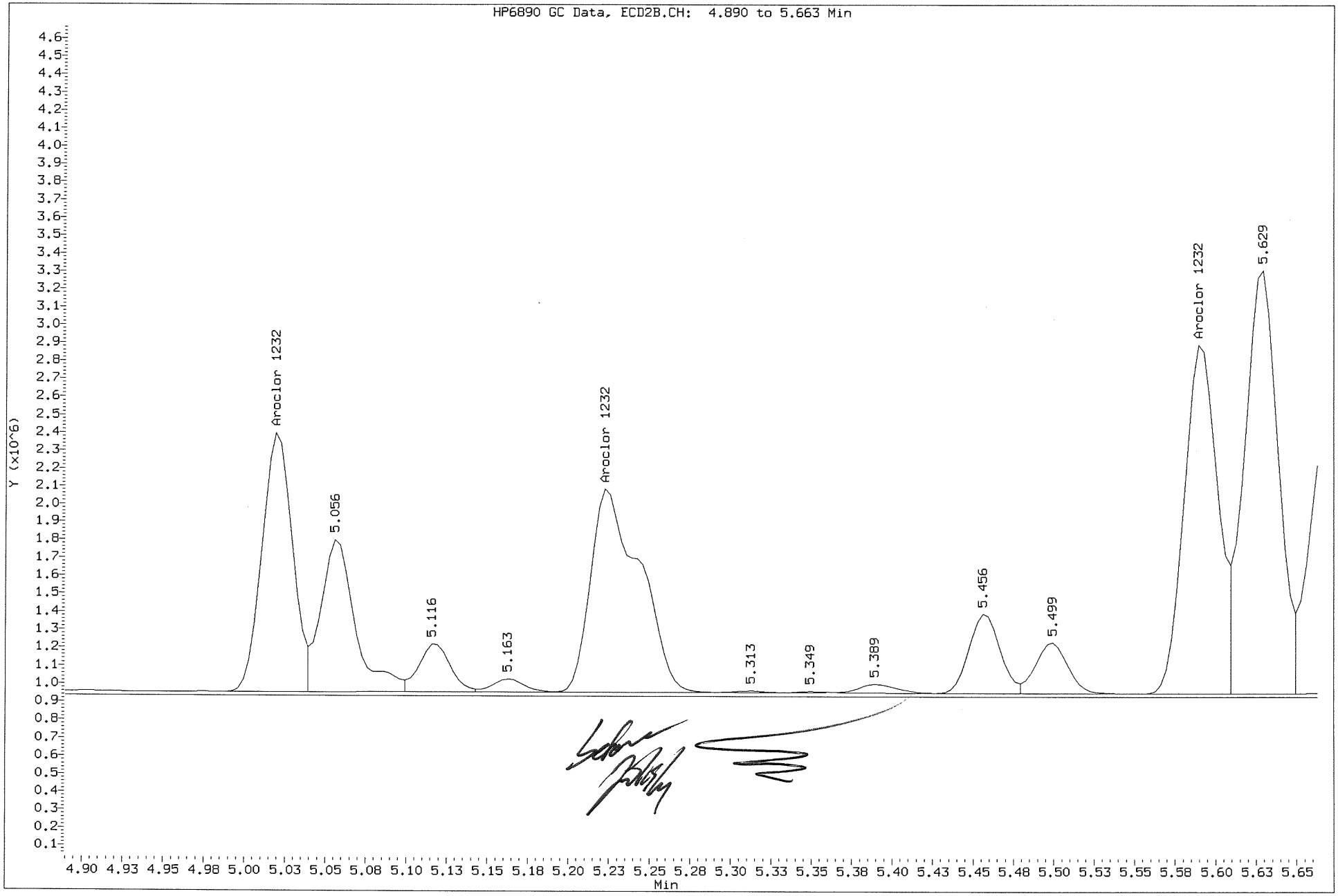
Column phase: DB-XLB

Instrument: GC27.i

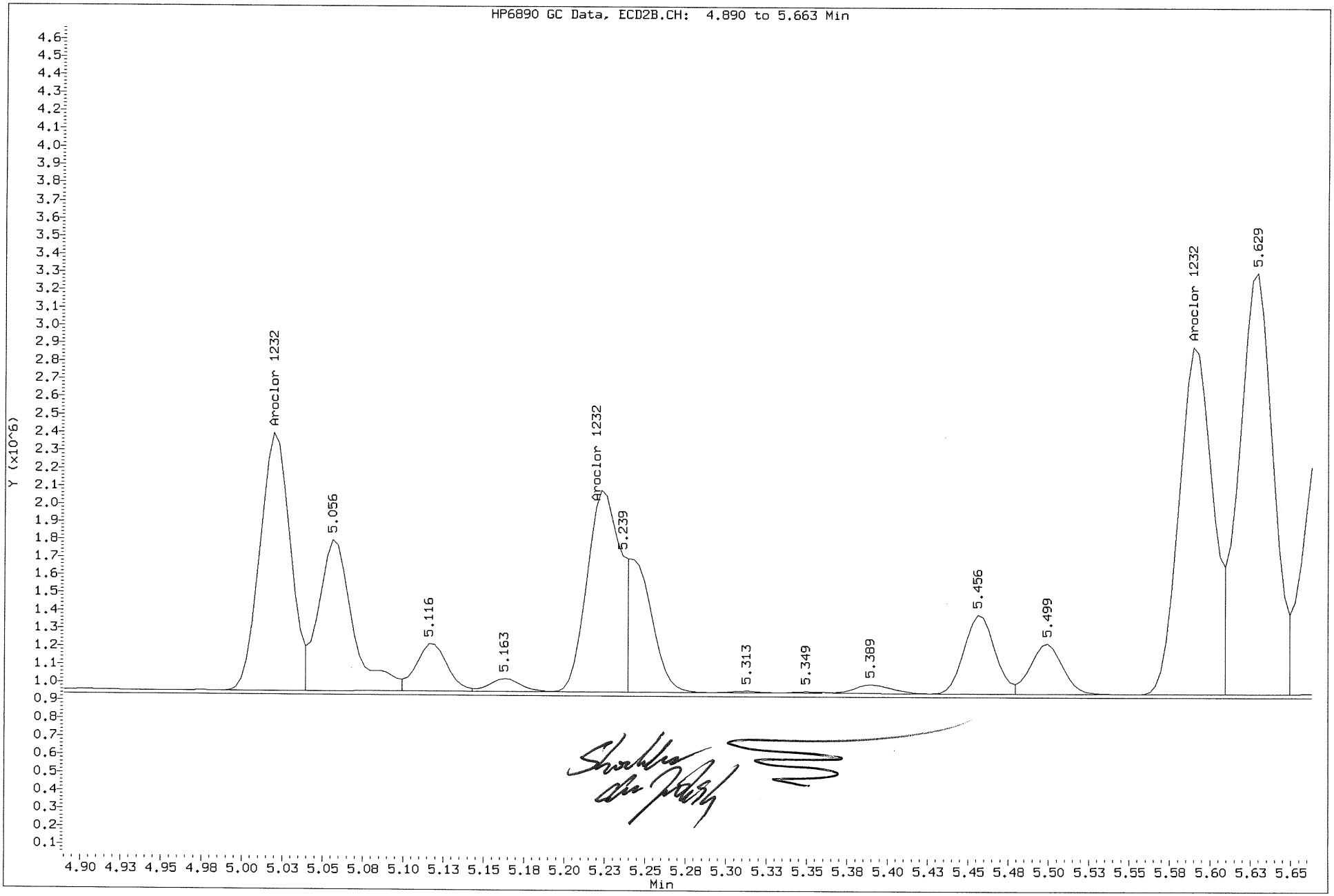
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

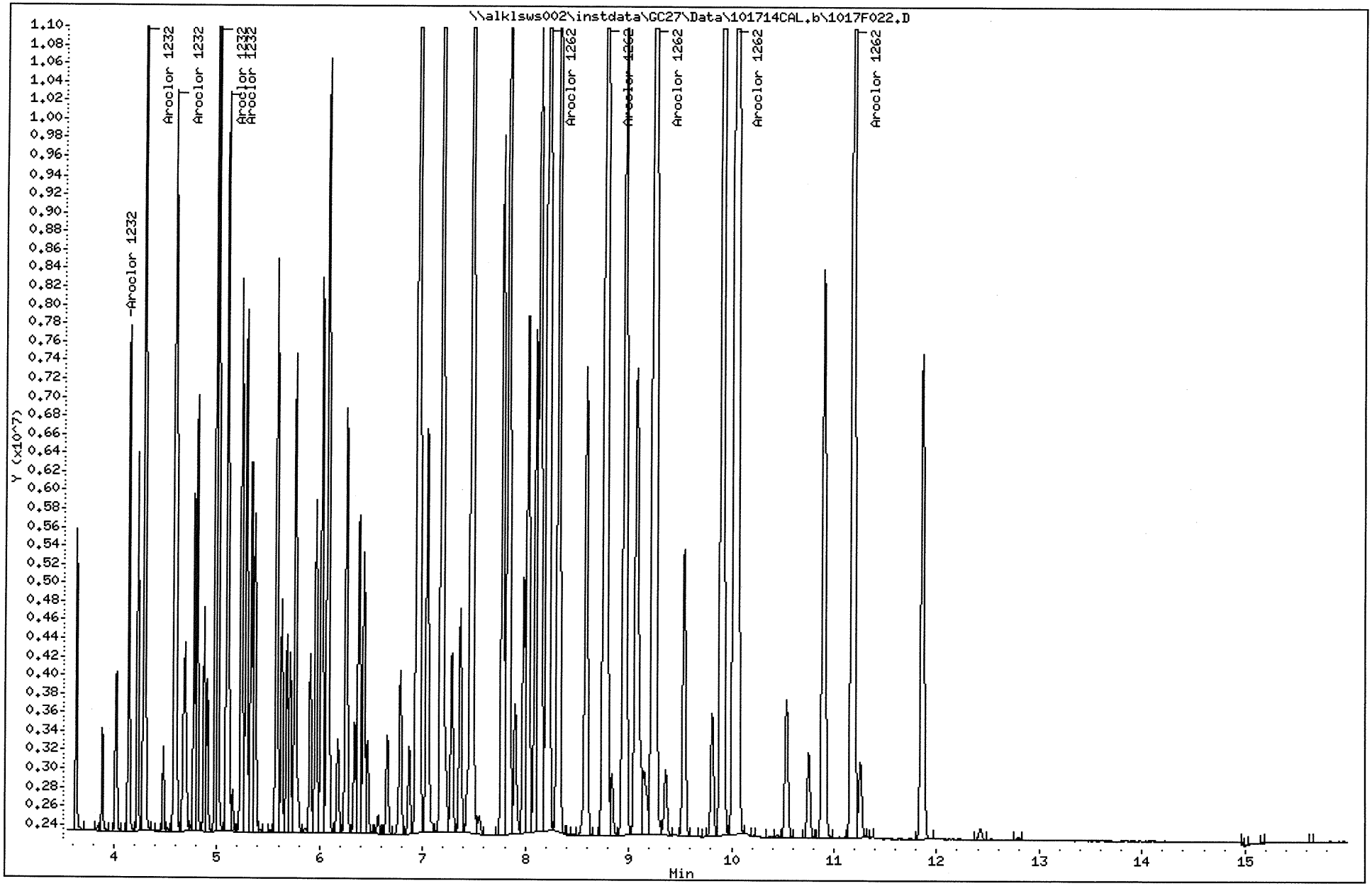
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



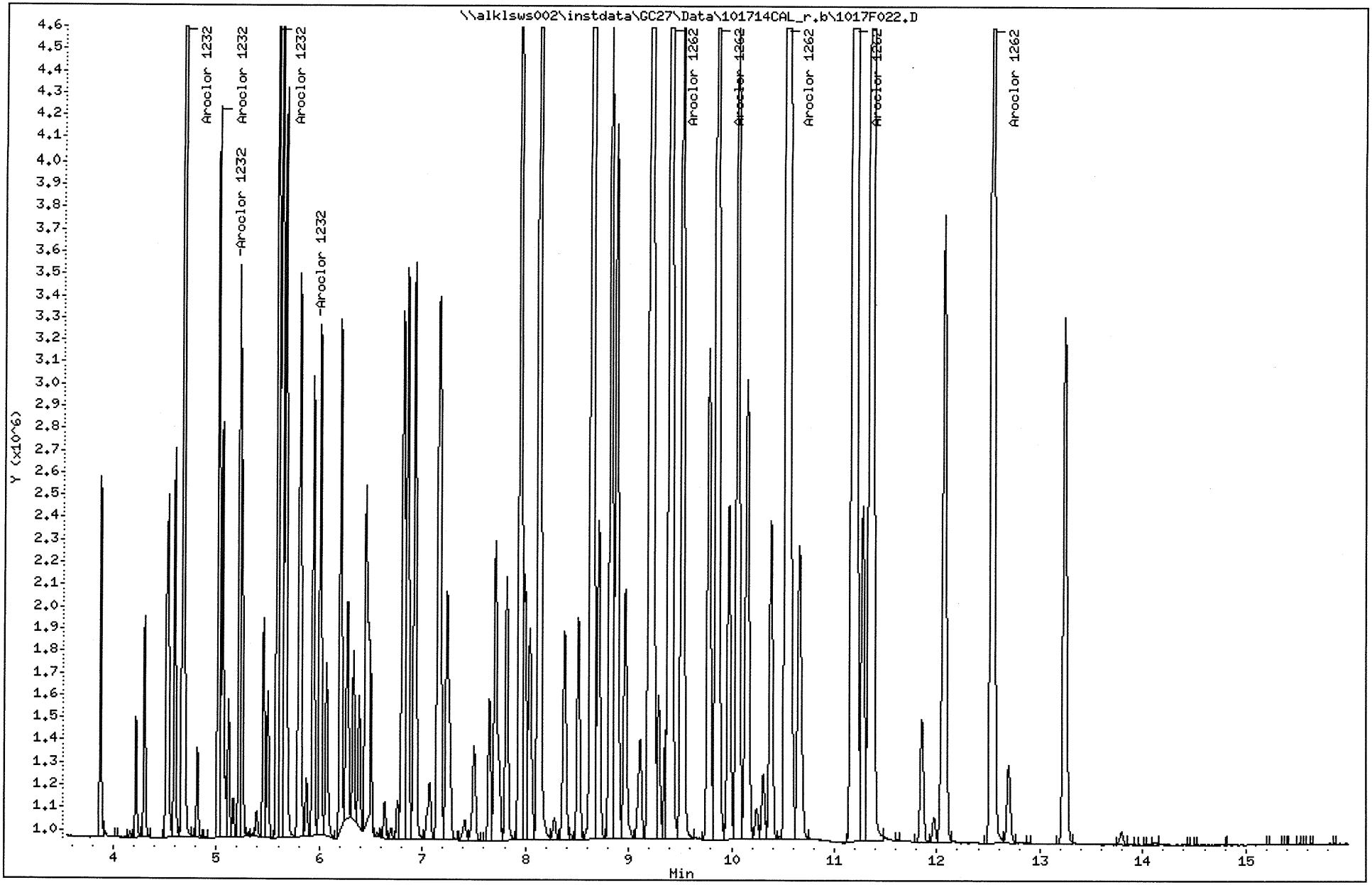
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

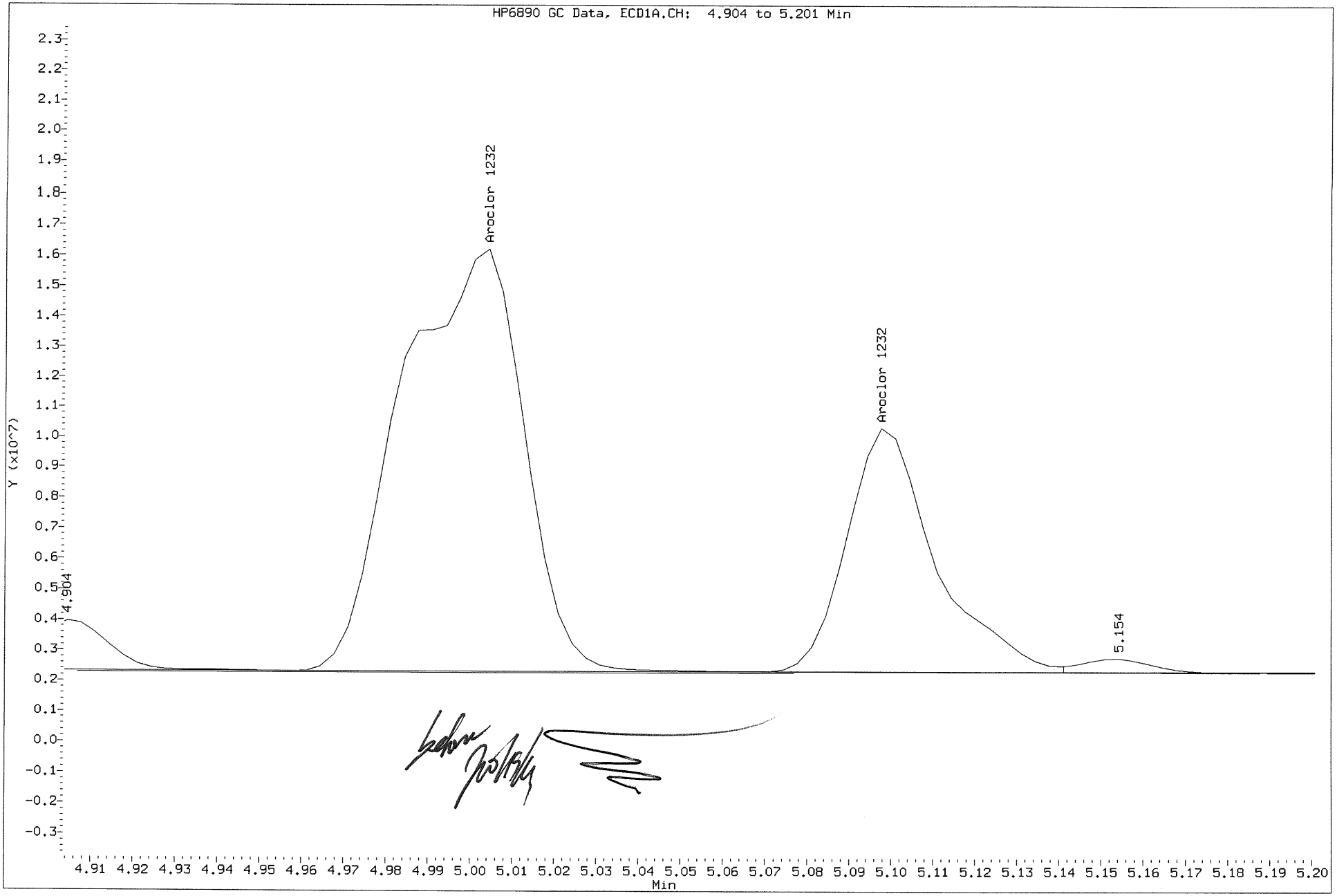
Operator: JMSmith

Column phase: DB-XLB

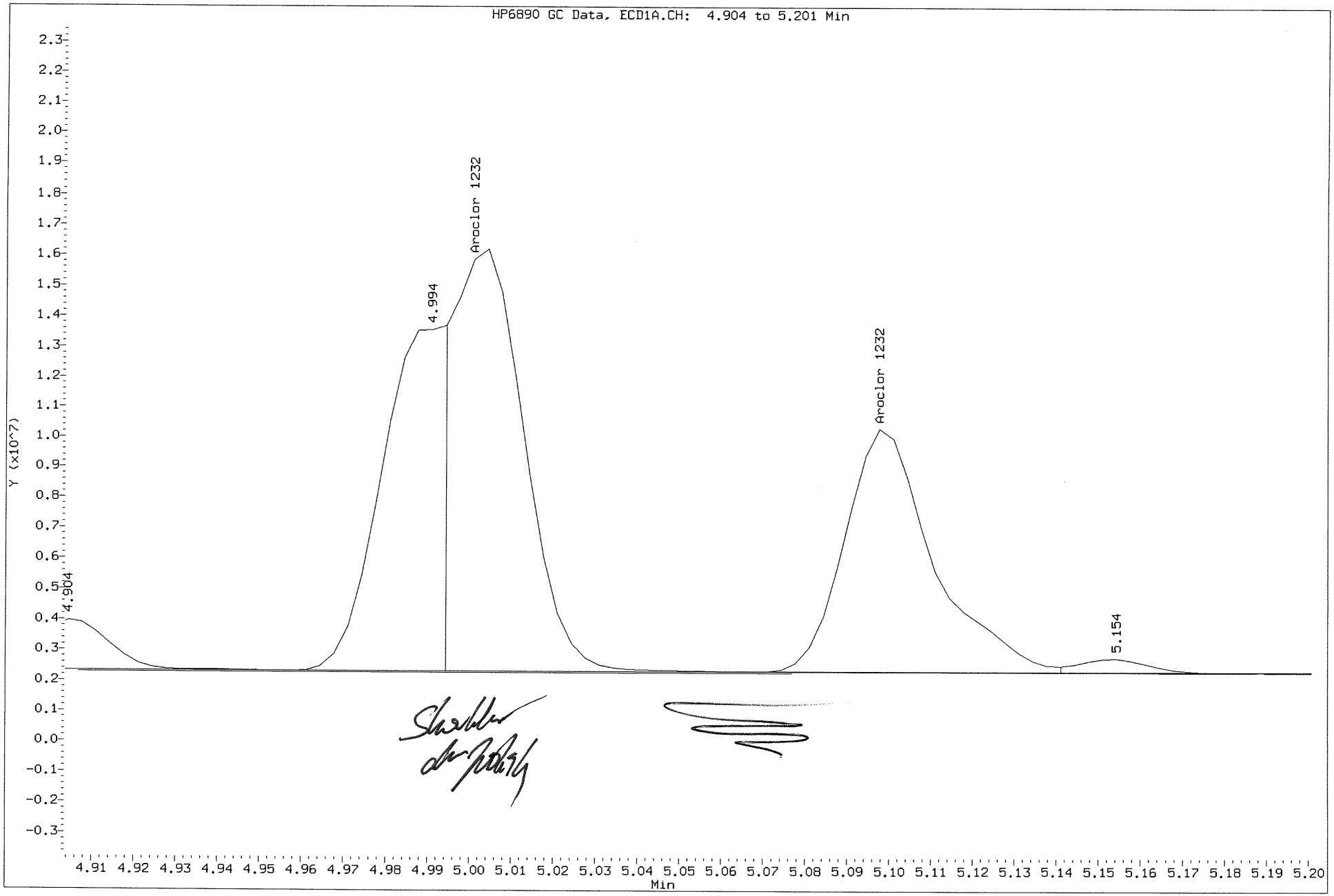
Column diameter: 0.32



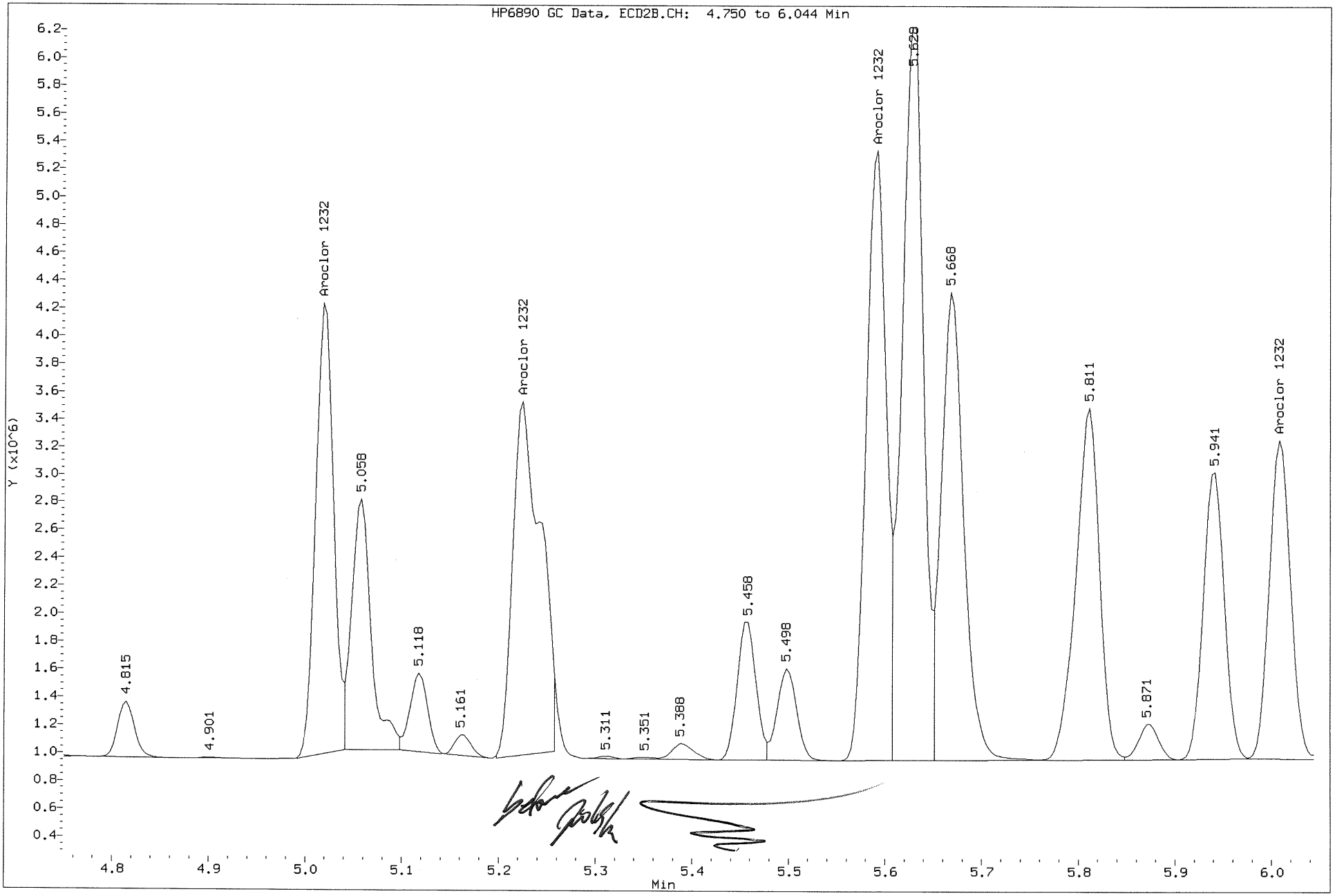
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

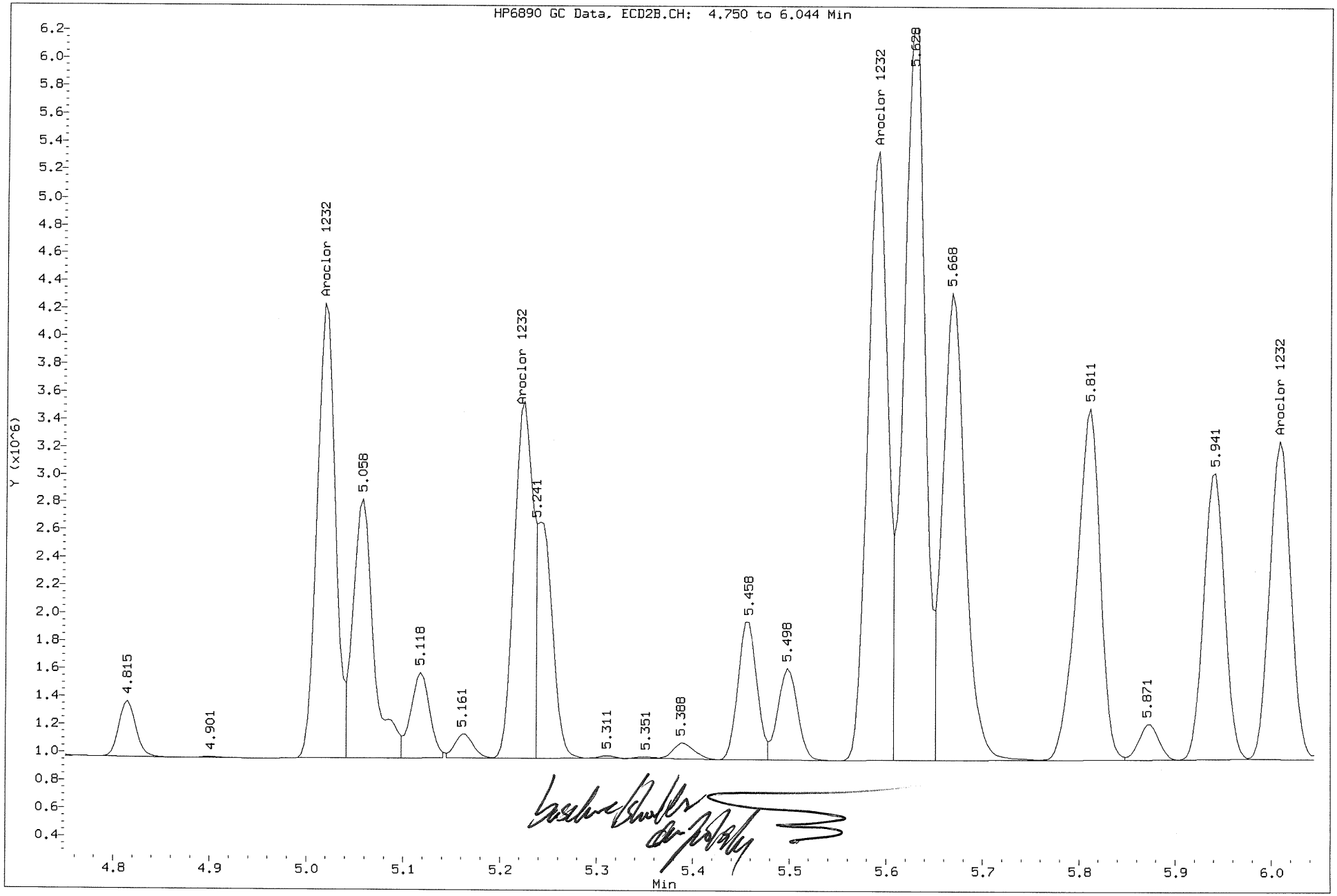


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before polish

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

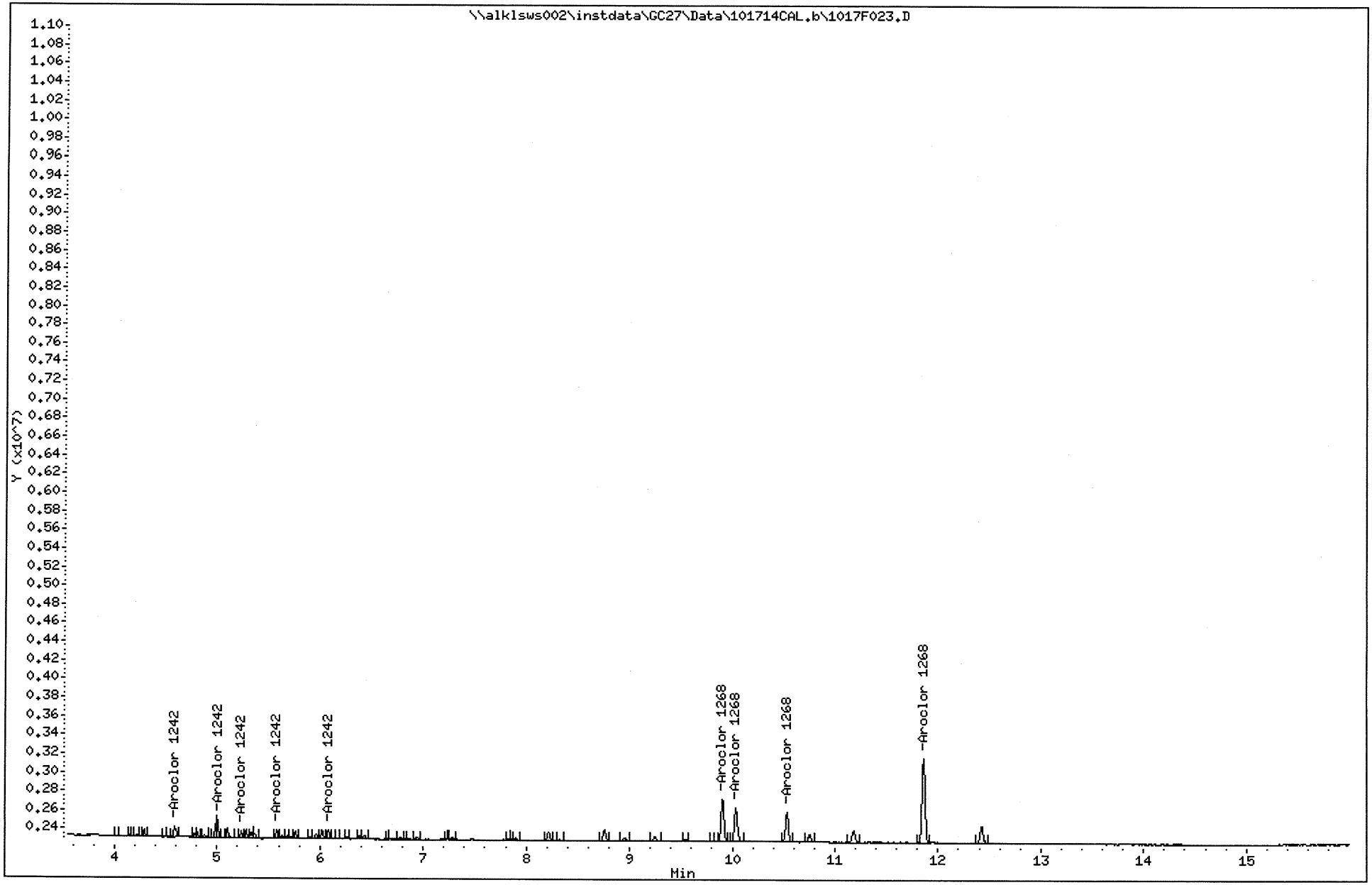
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



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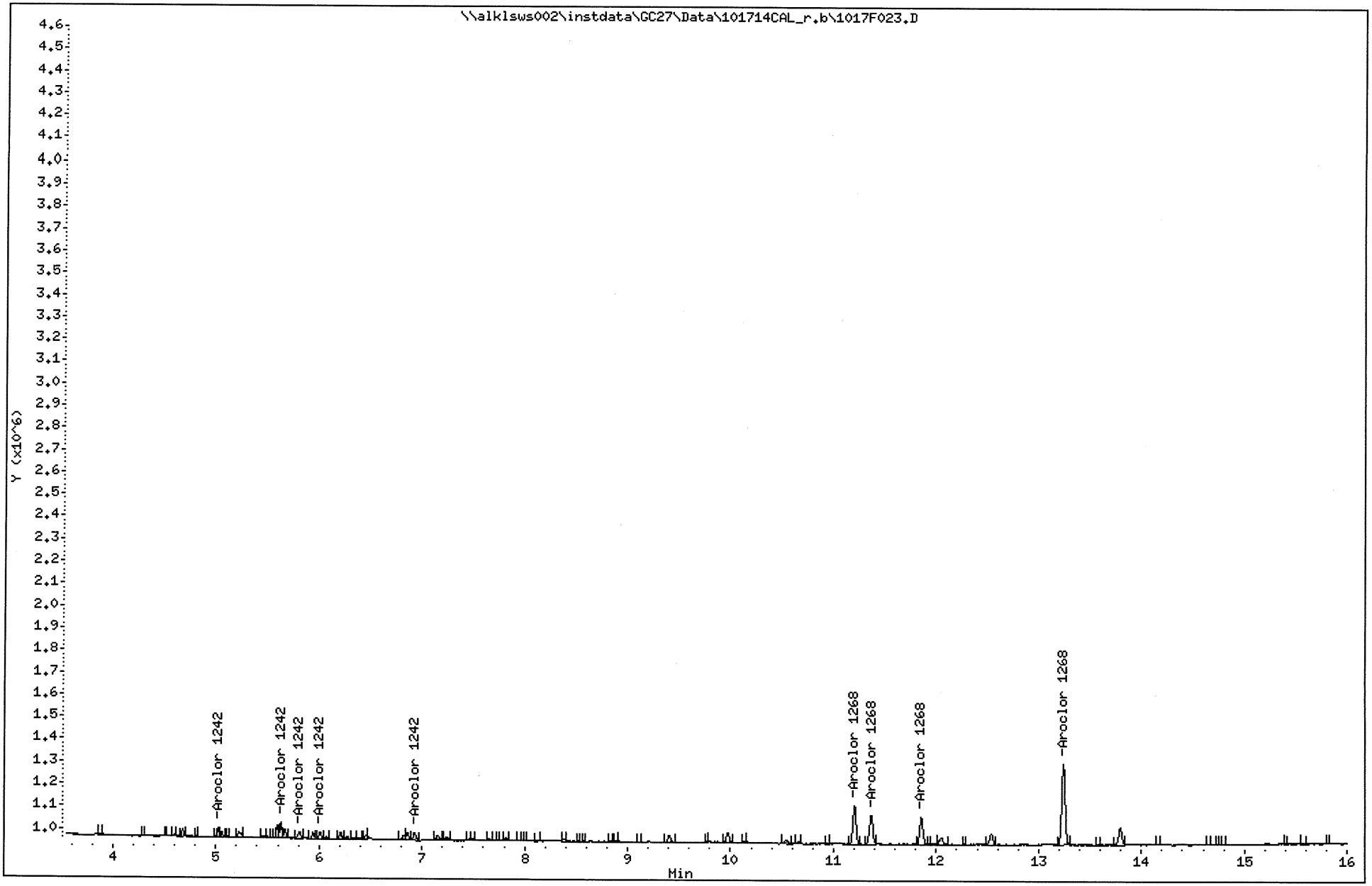
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
		Average of Peak Amounts =			56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
		Average of Peak Amounts =			59.0	52.4		

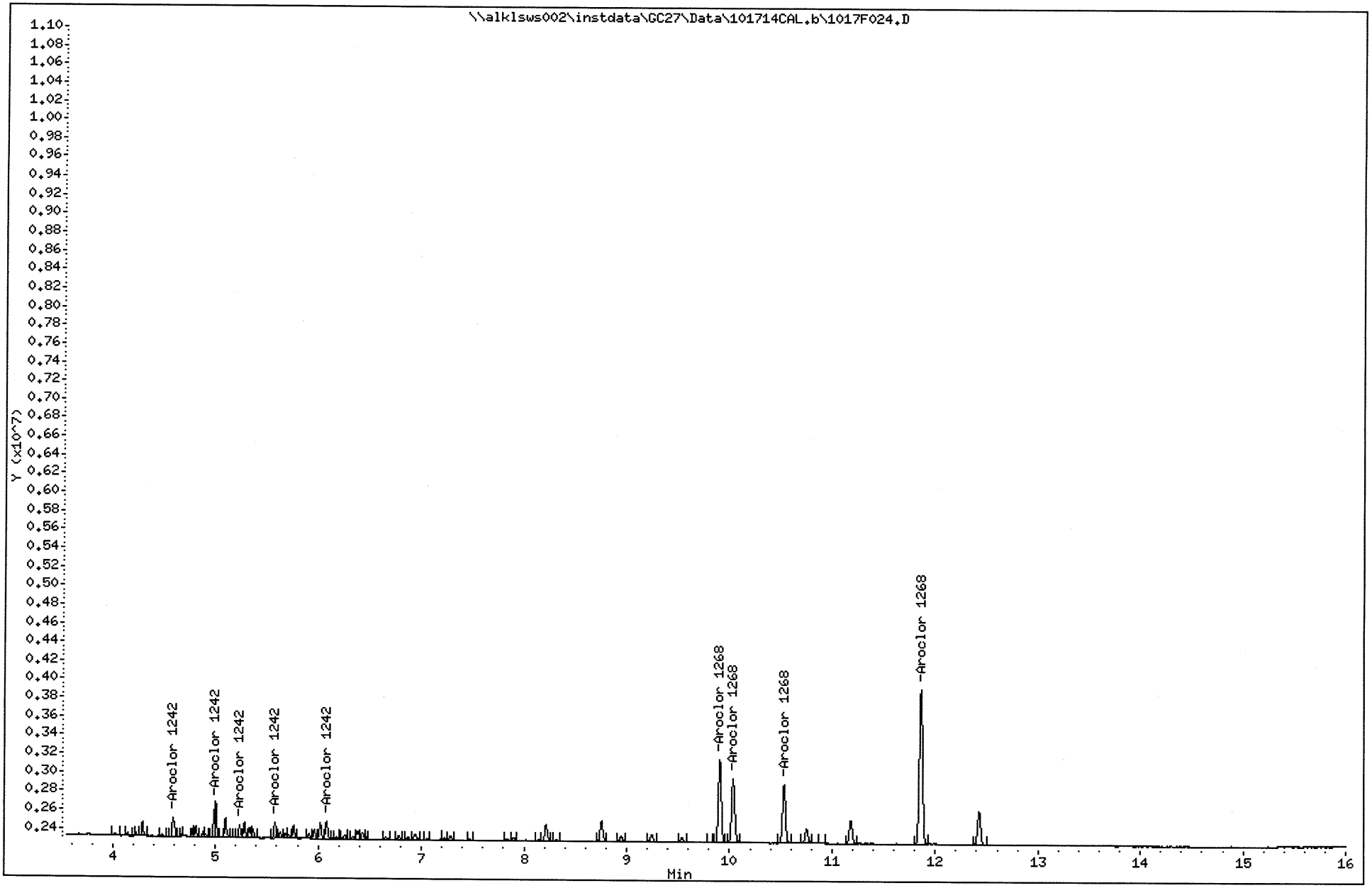
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



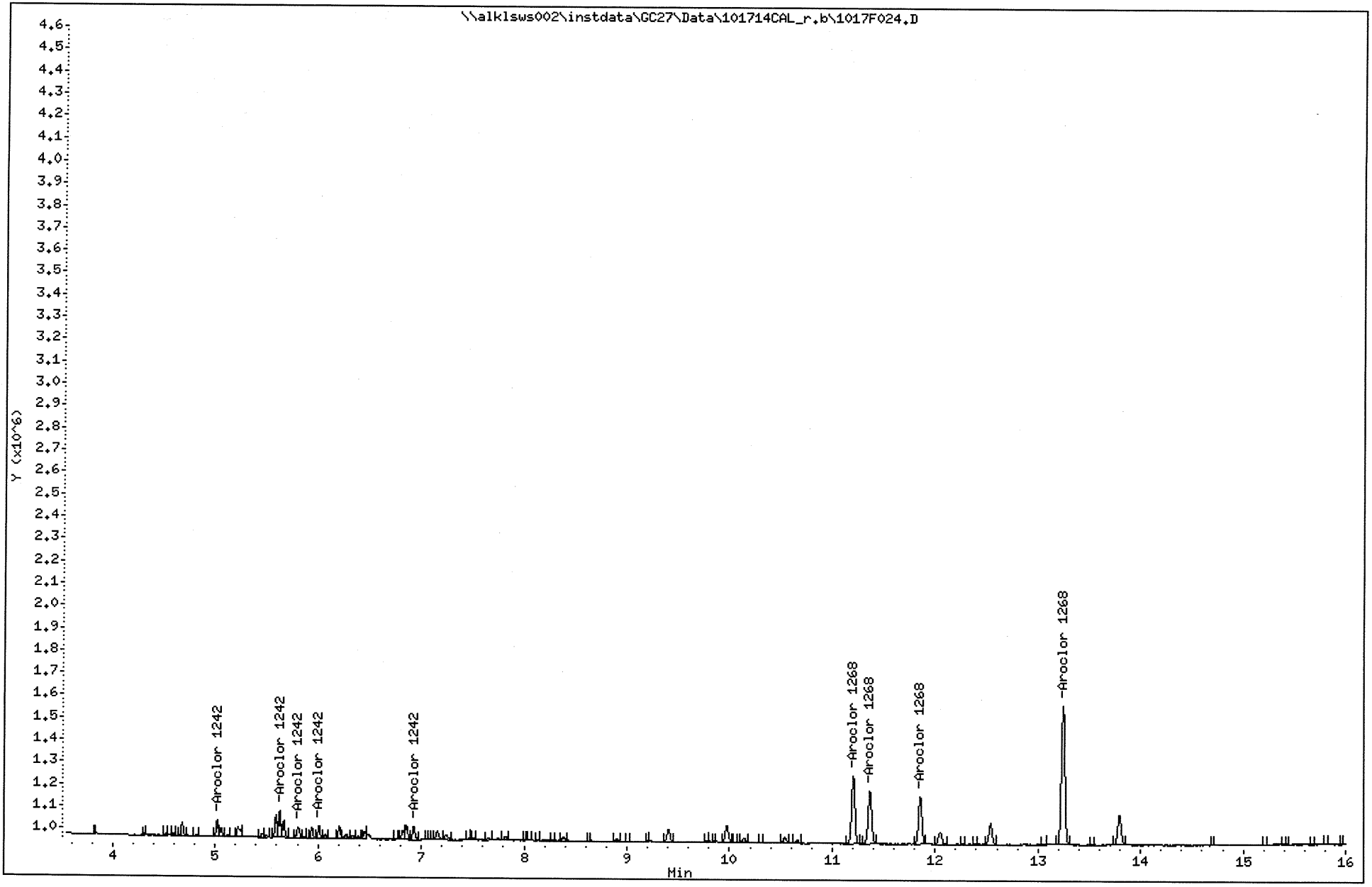
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

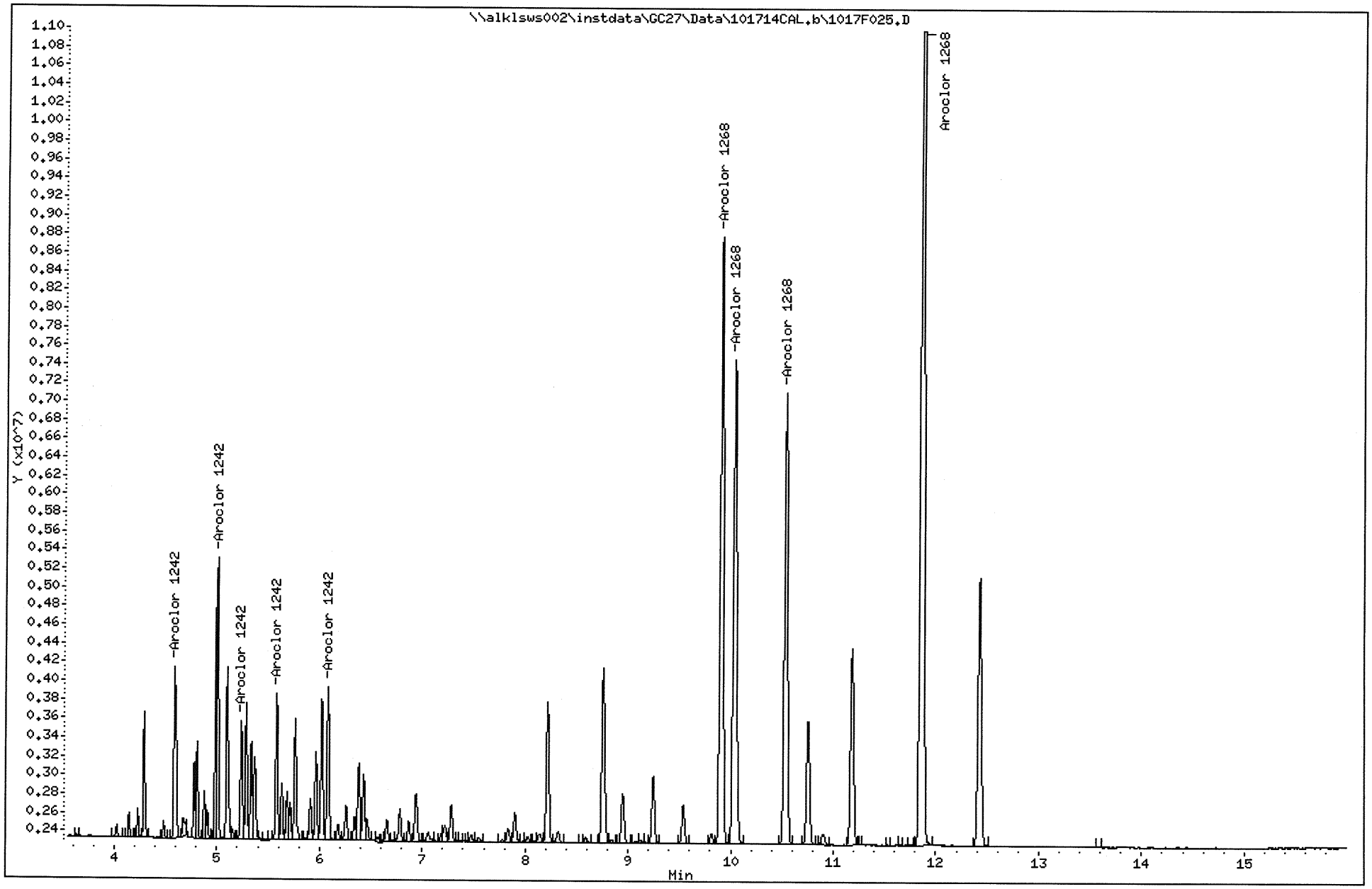
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

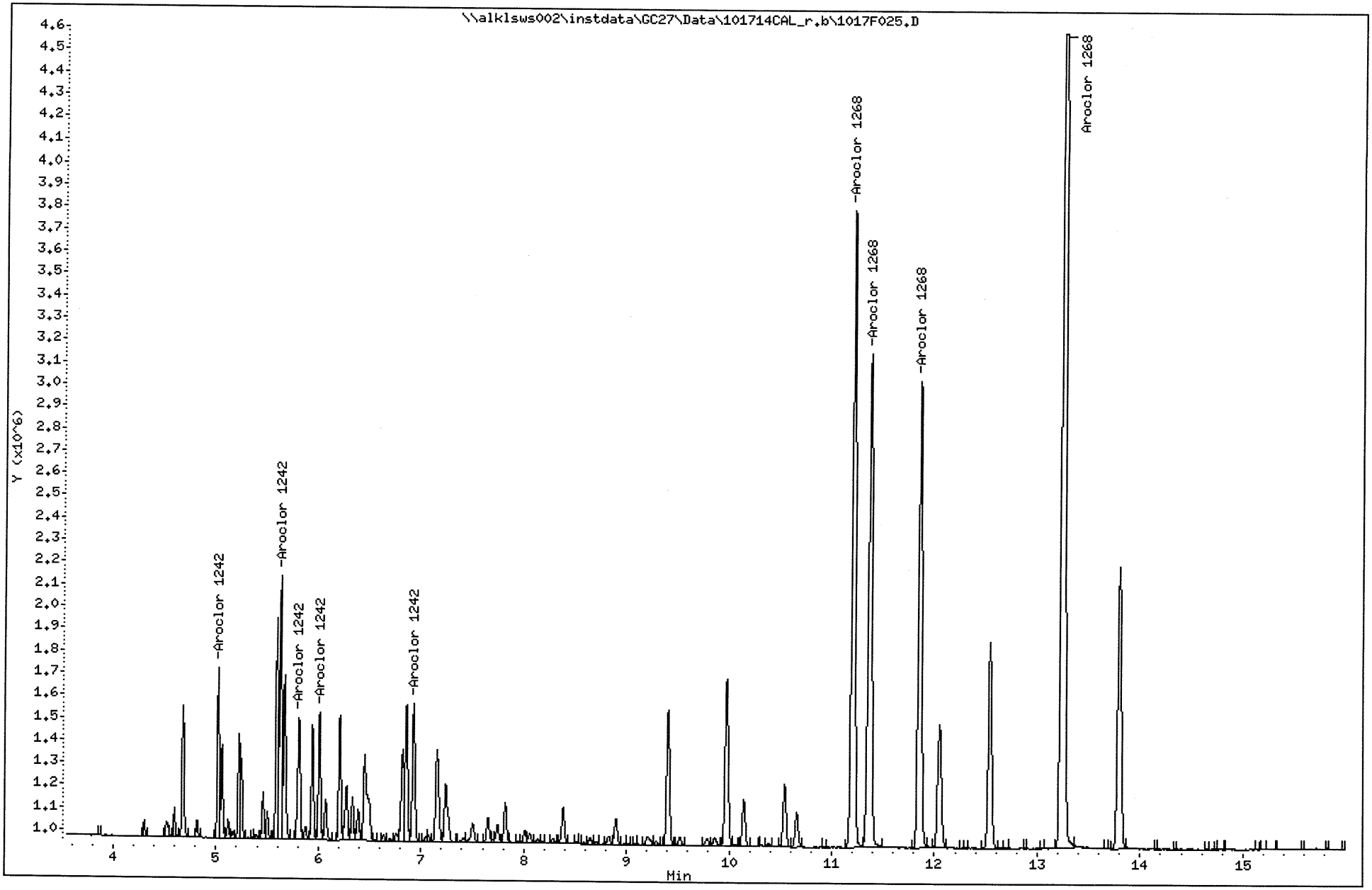


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

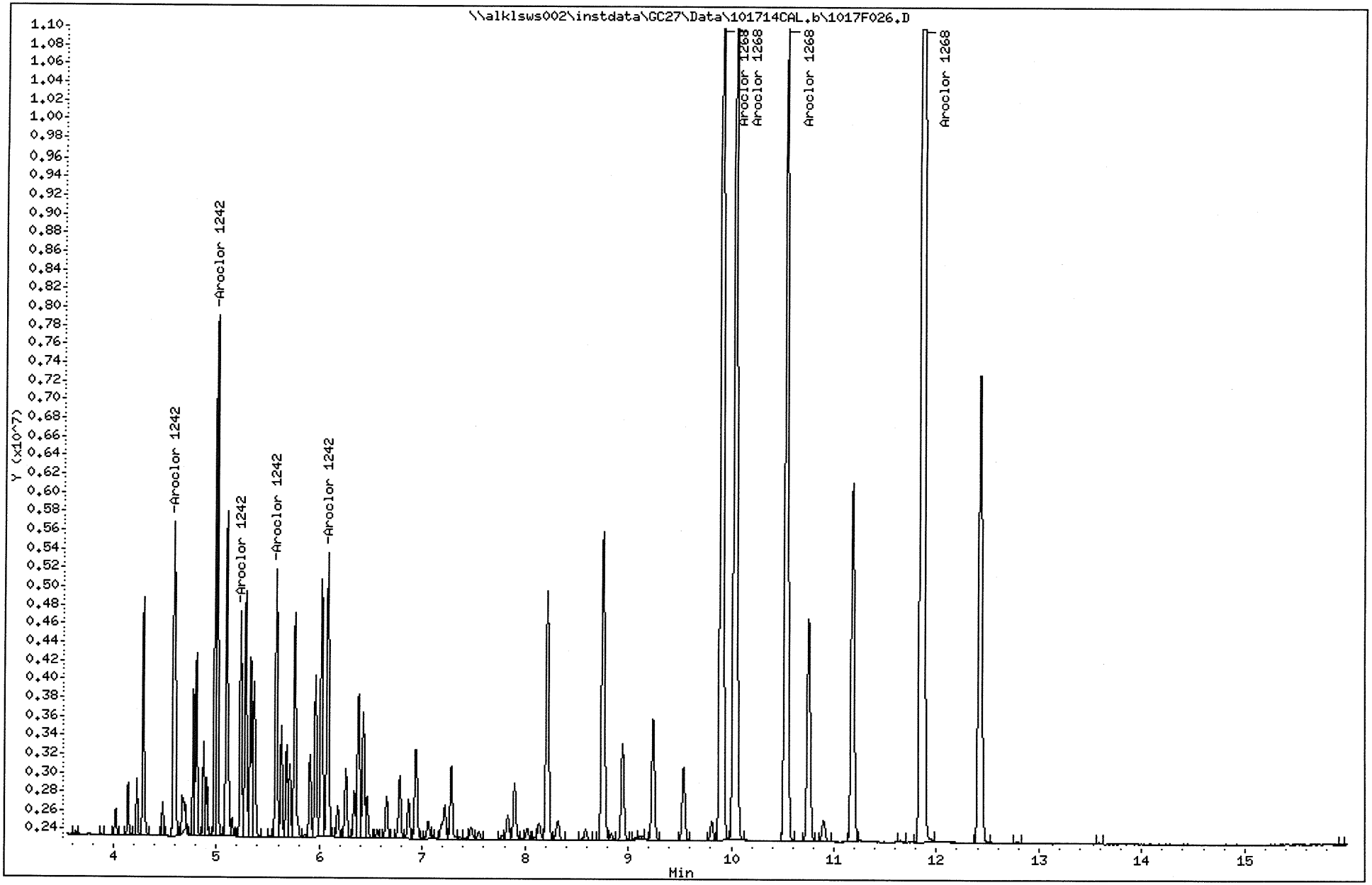
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



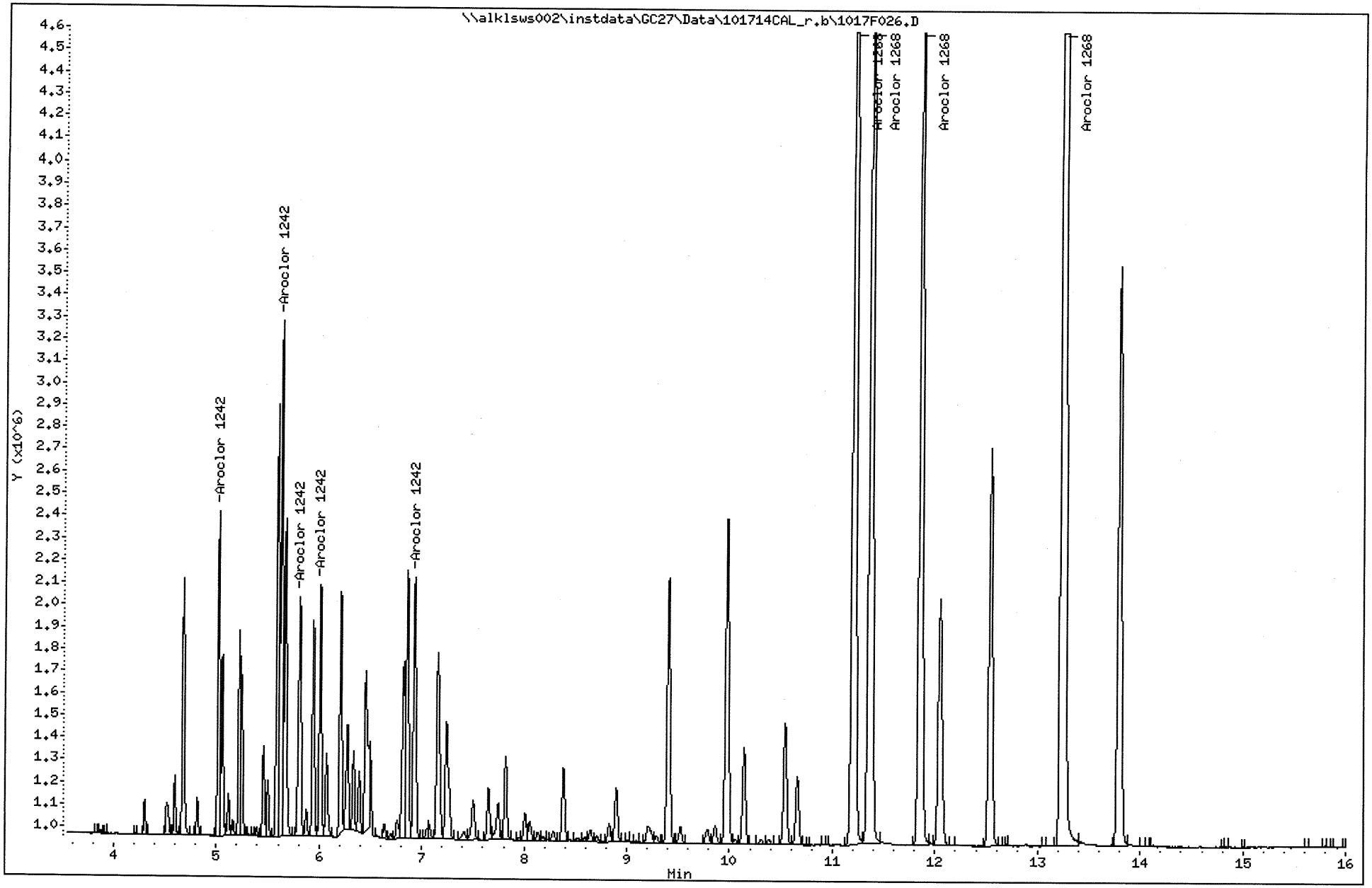
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

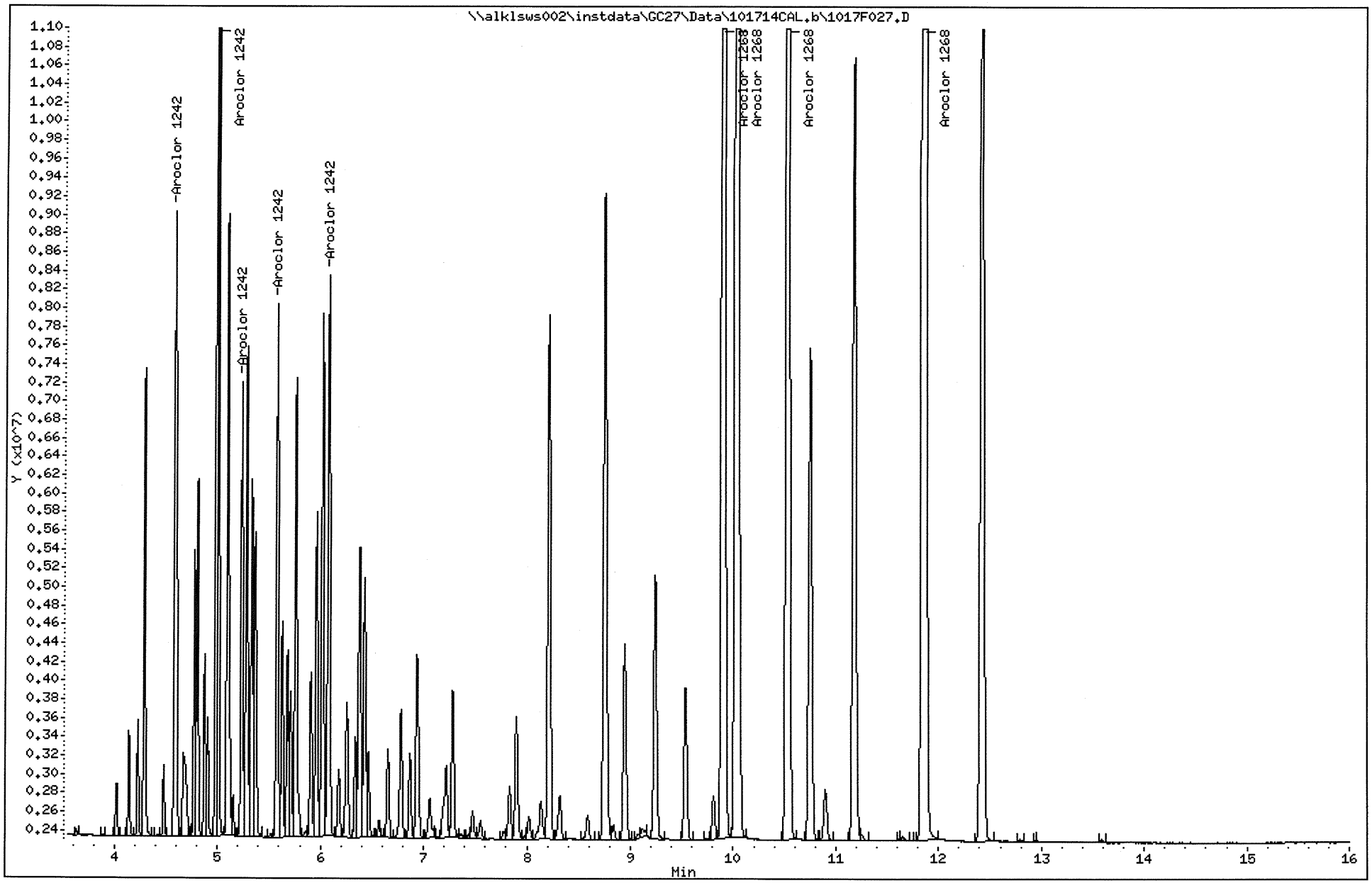
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



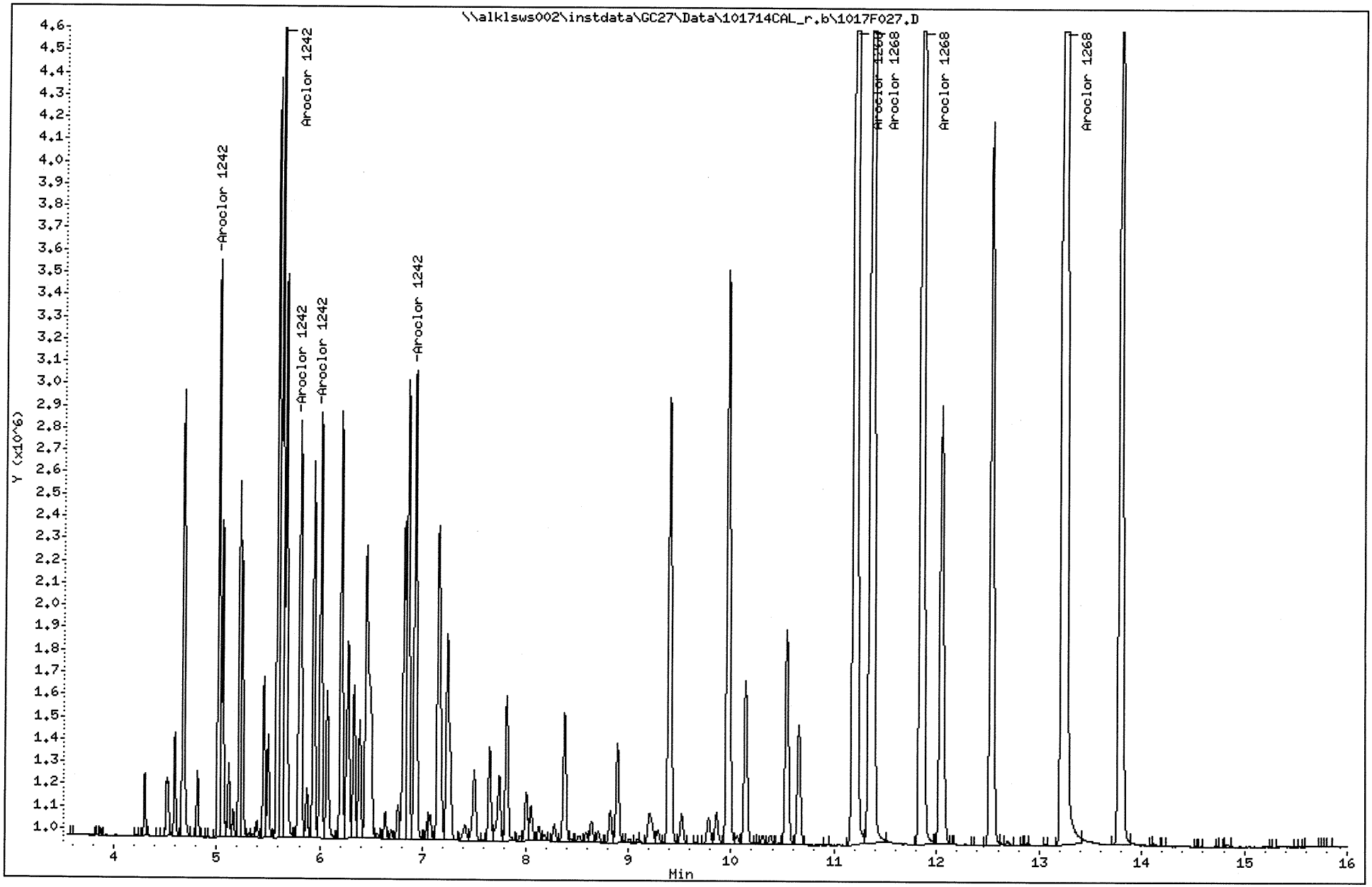
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

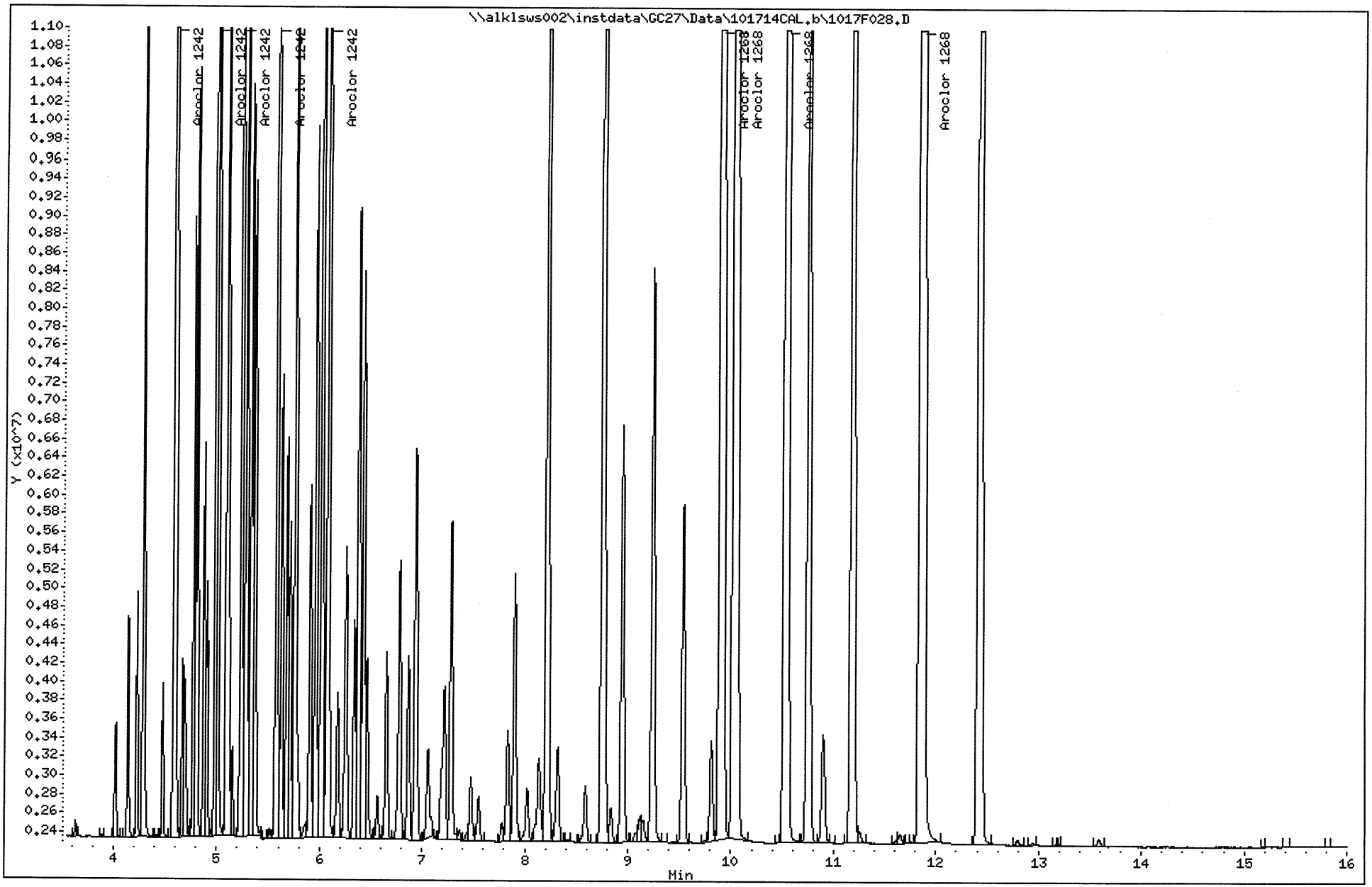
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



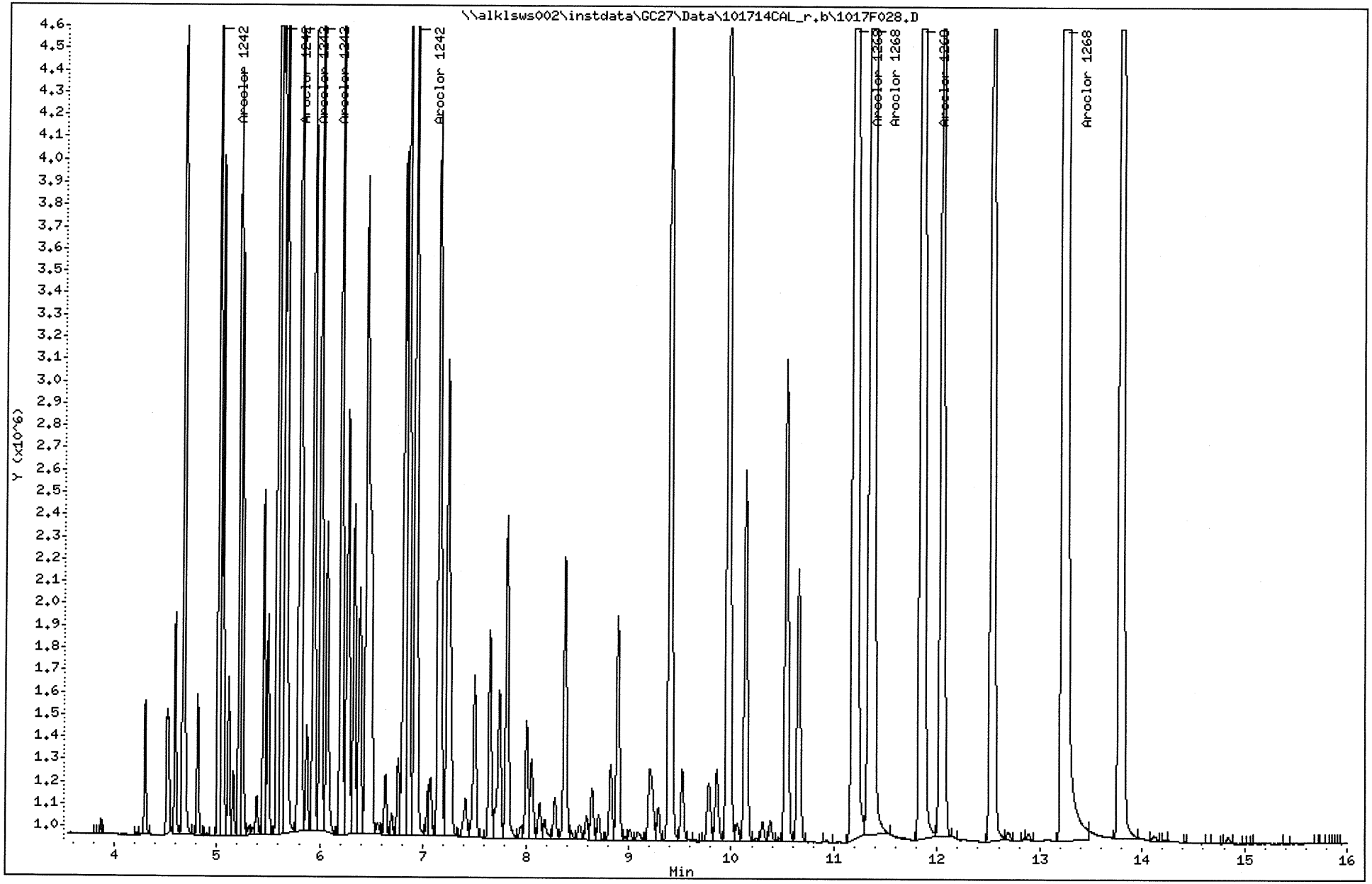
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

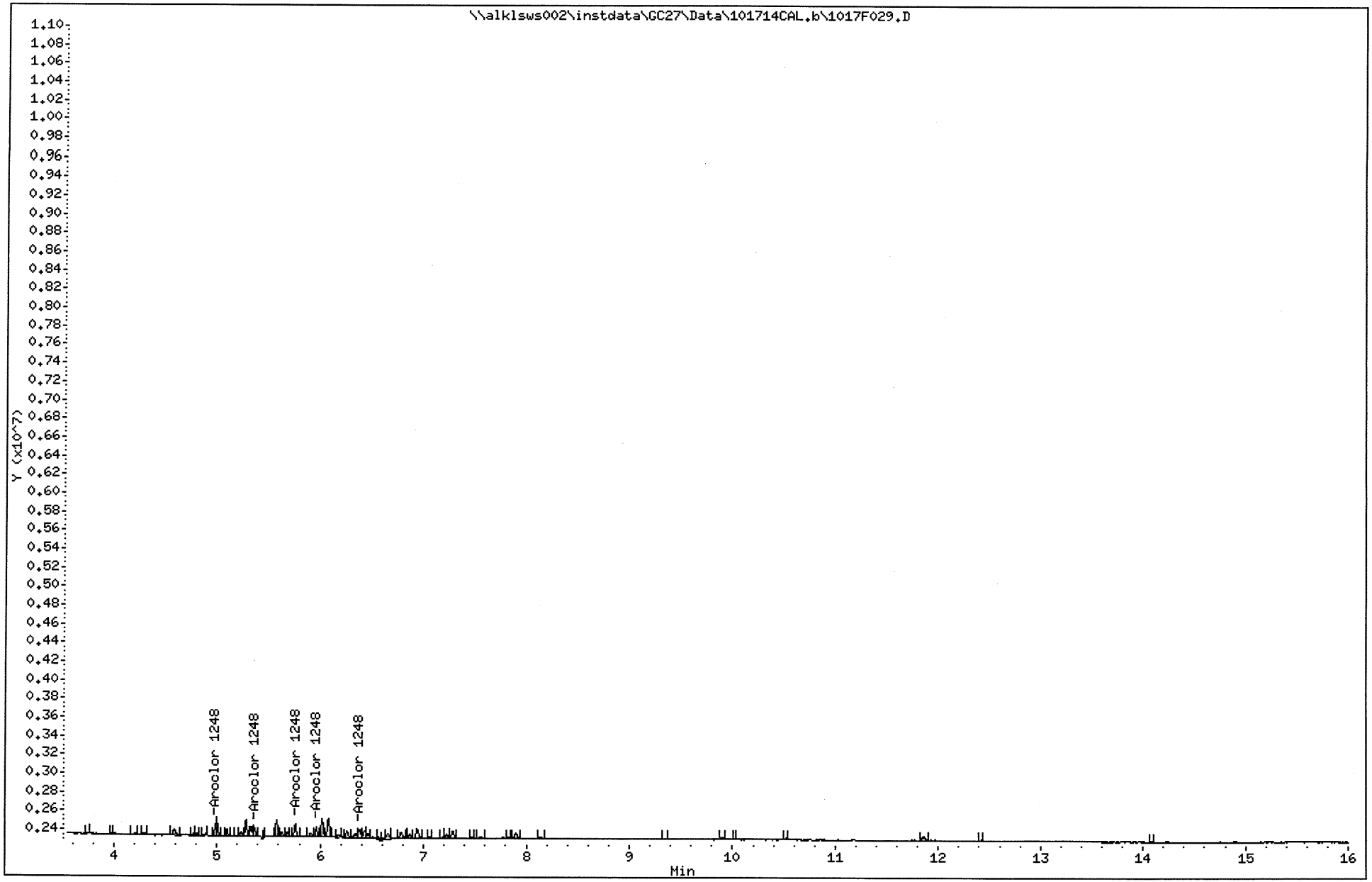
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

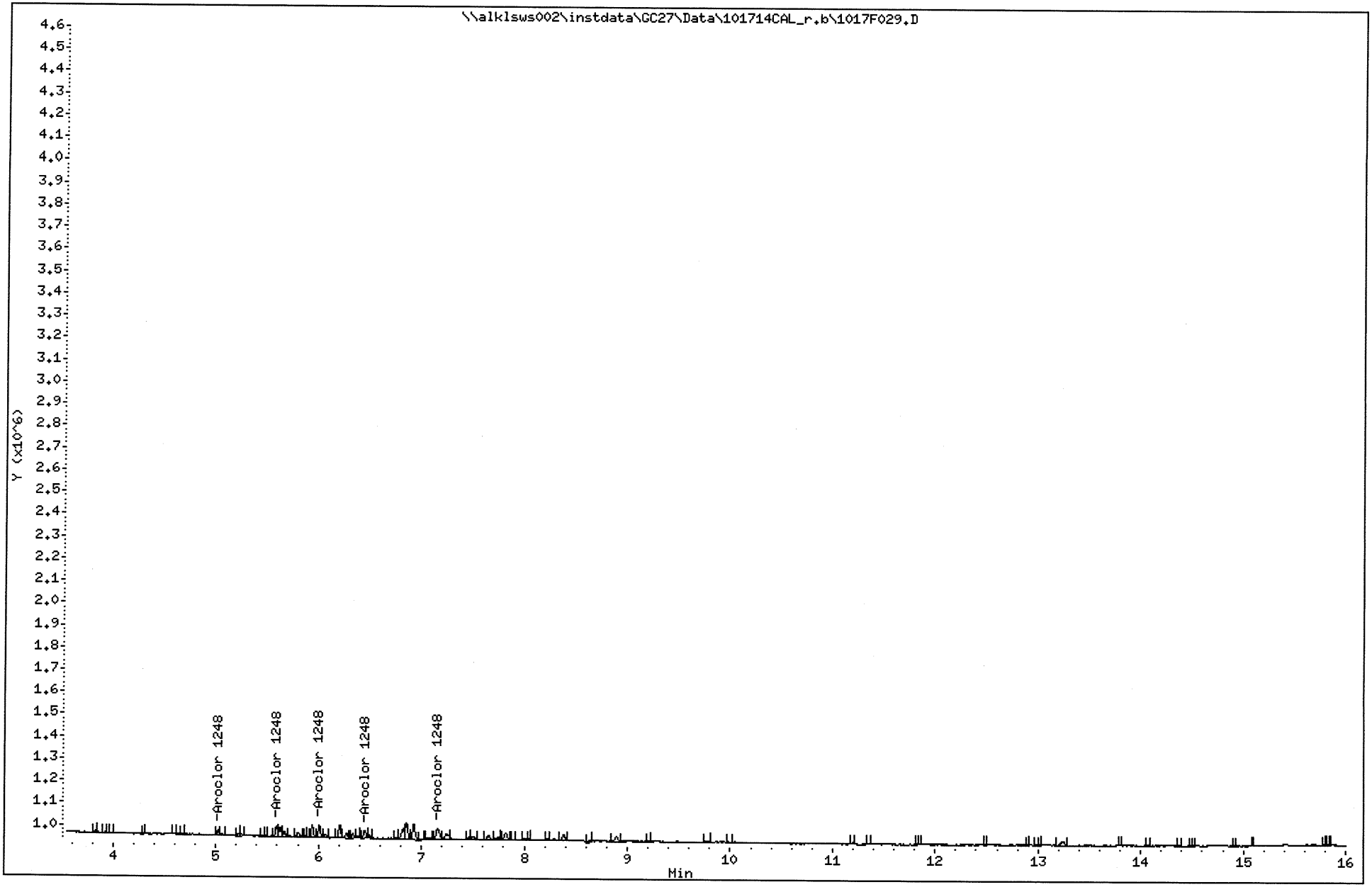


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Column phase: DB-XLB

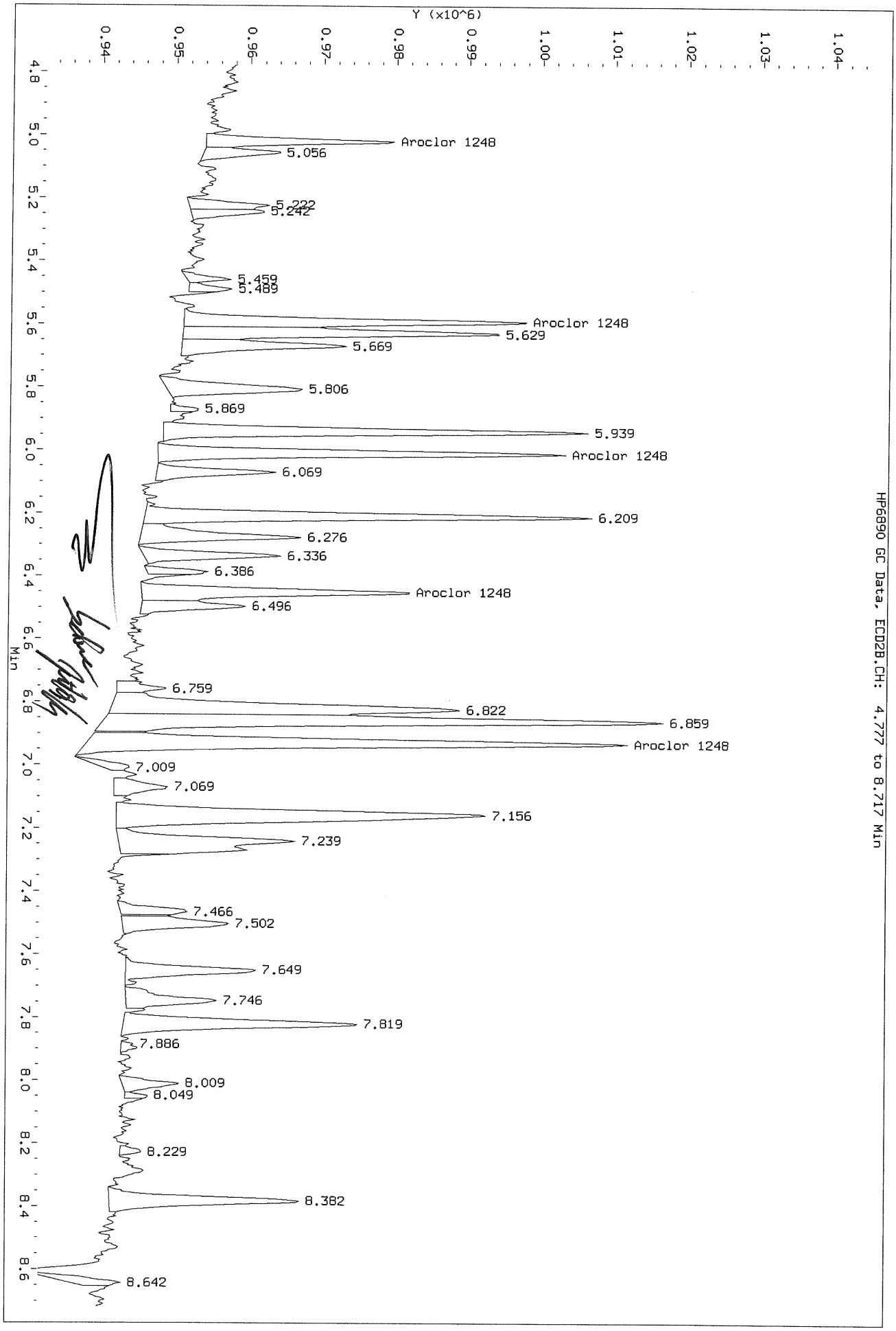
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



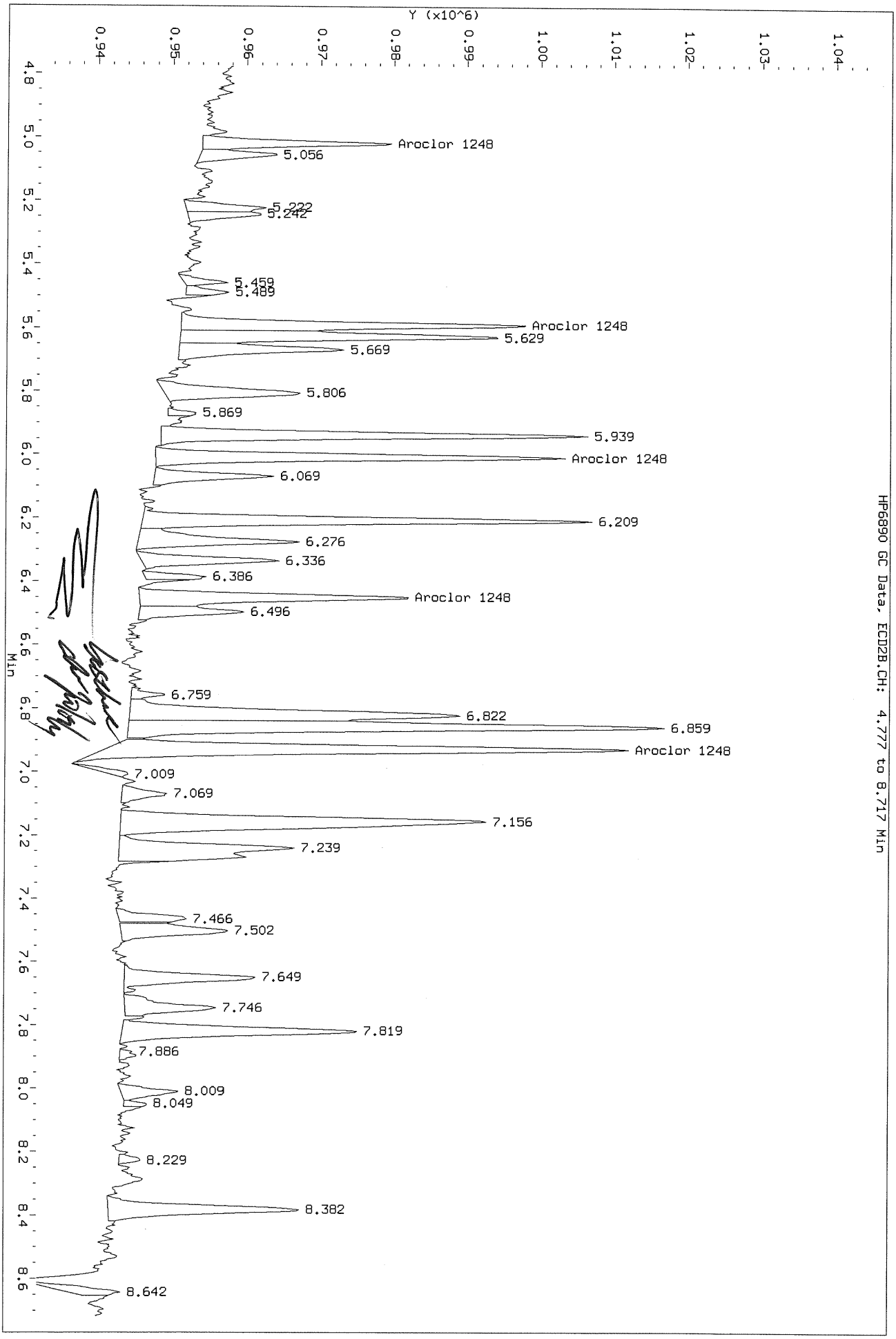
Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

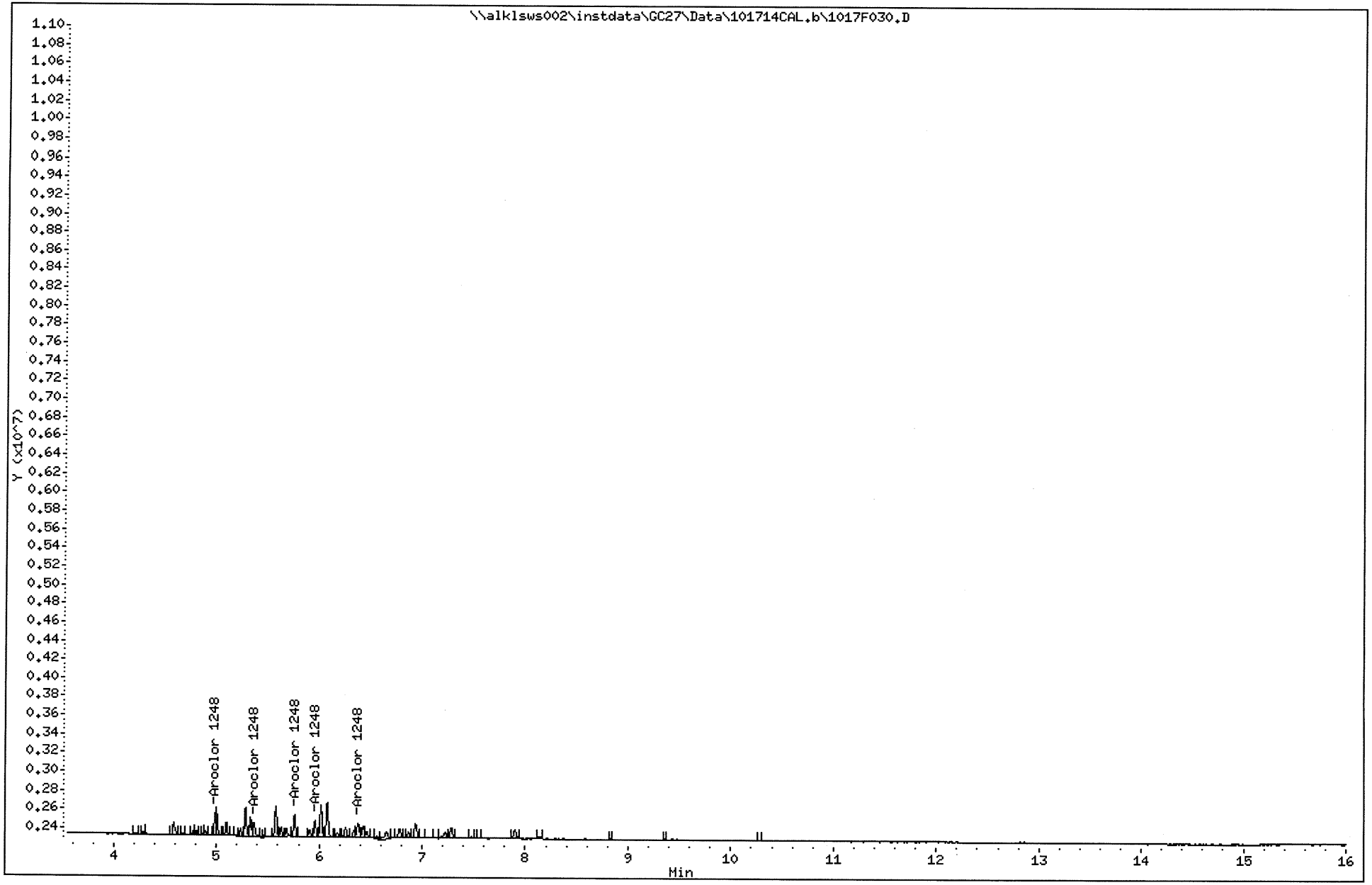
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



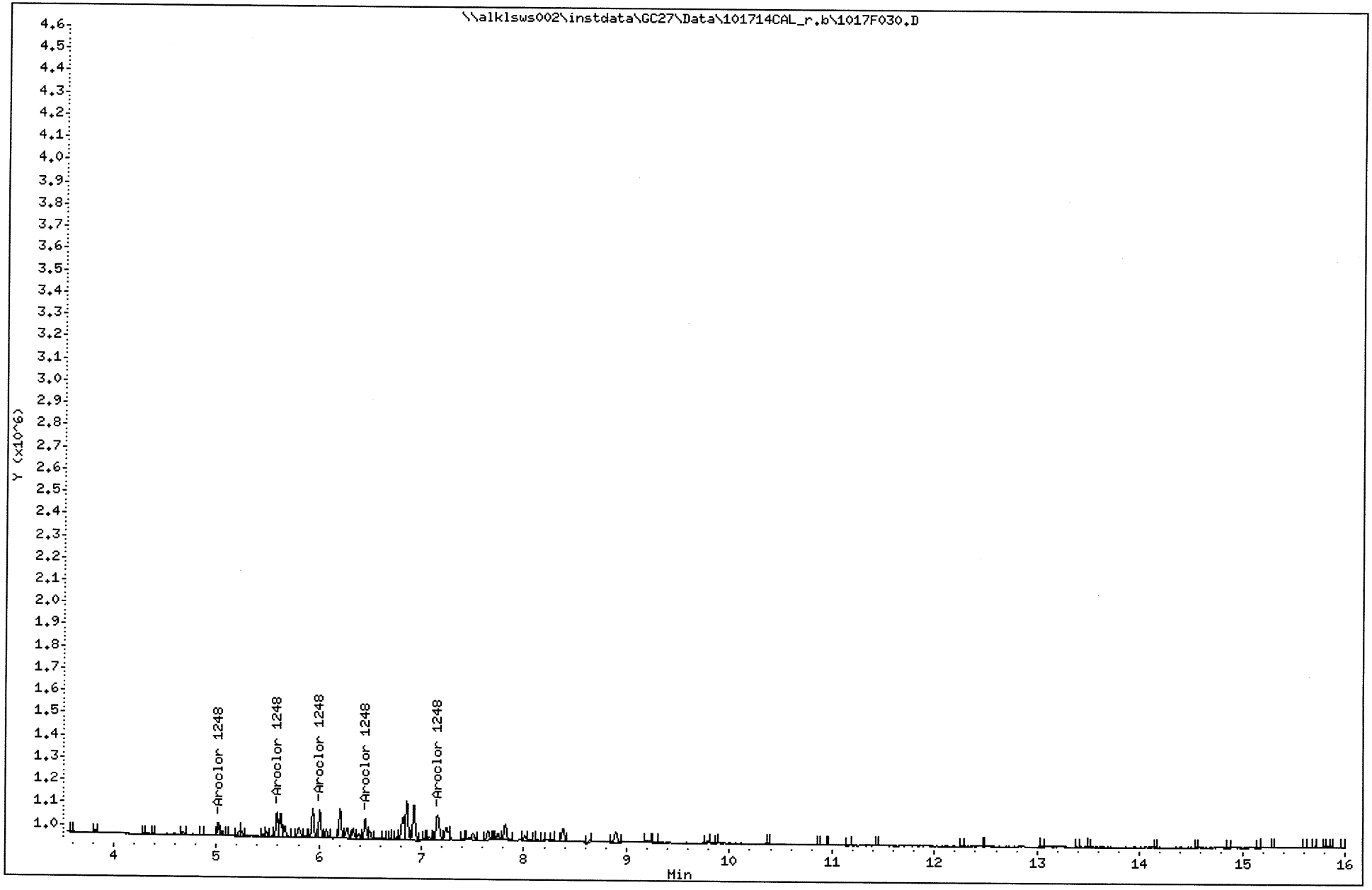
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

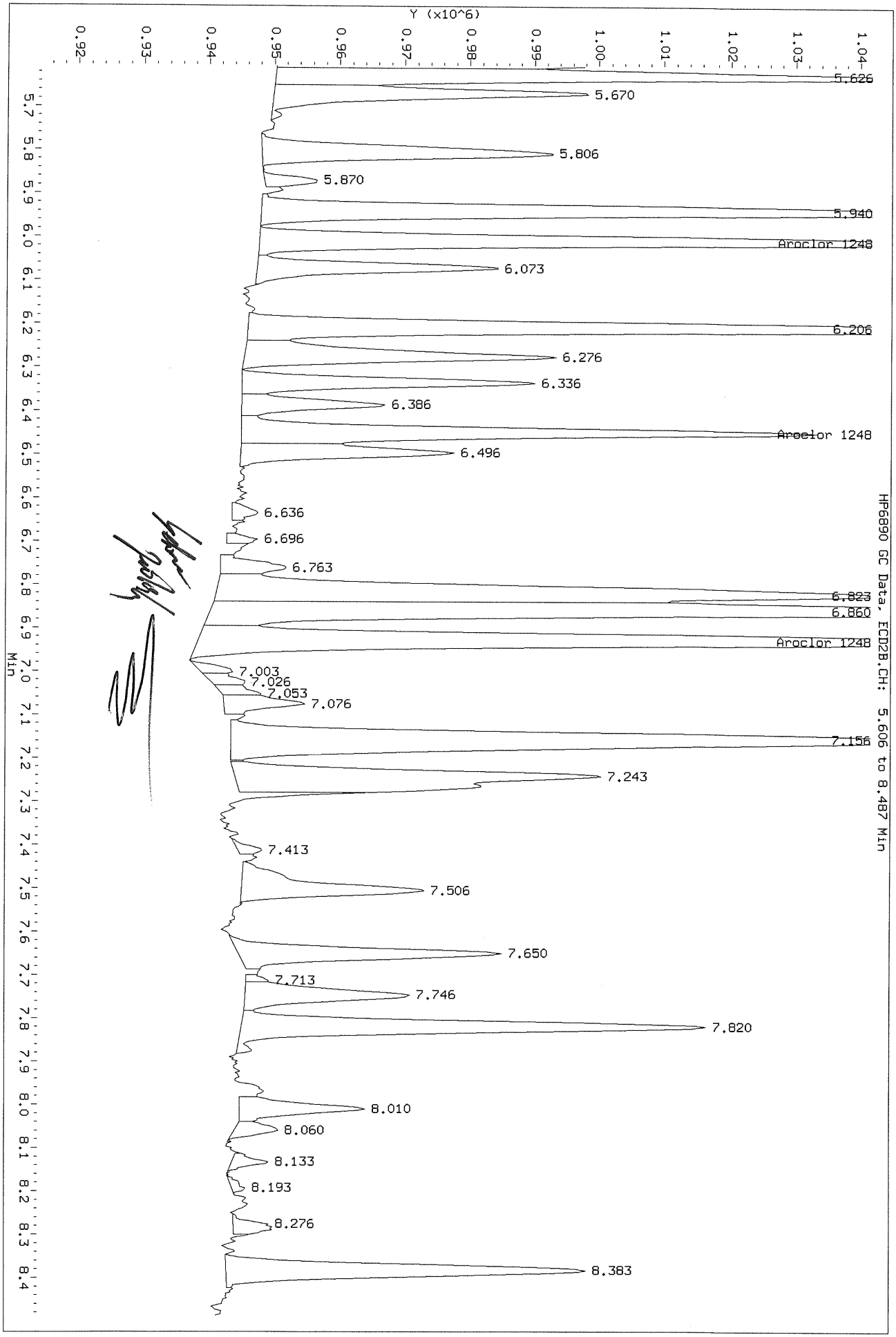
Instrument: GC27.i

Operator: JMSmith

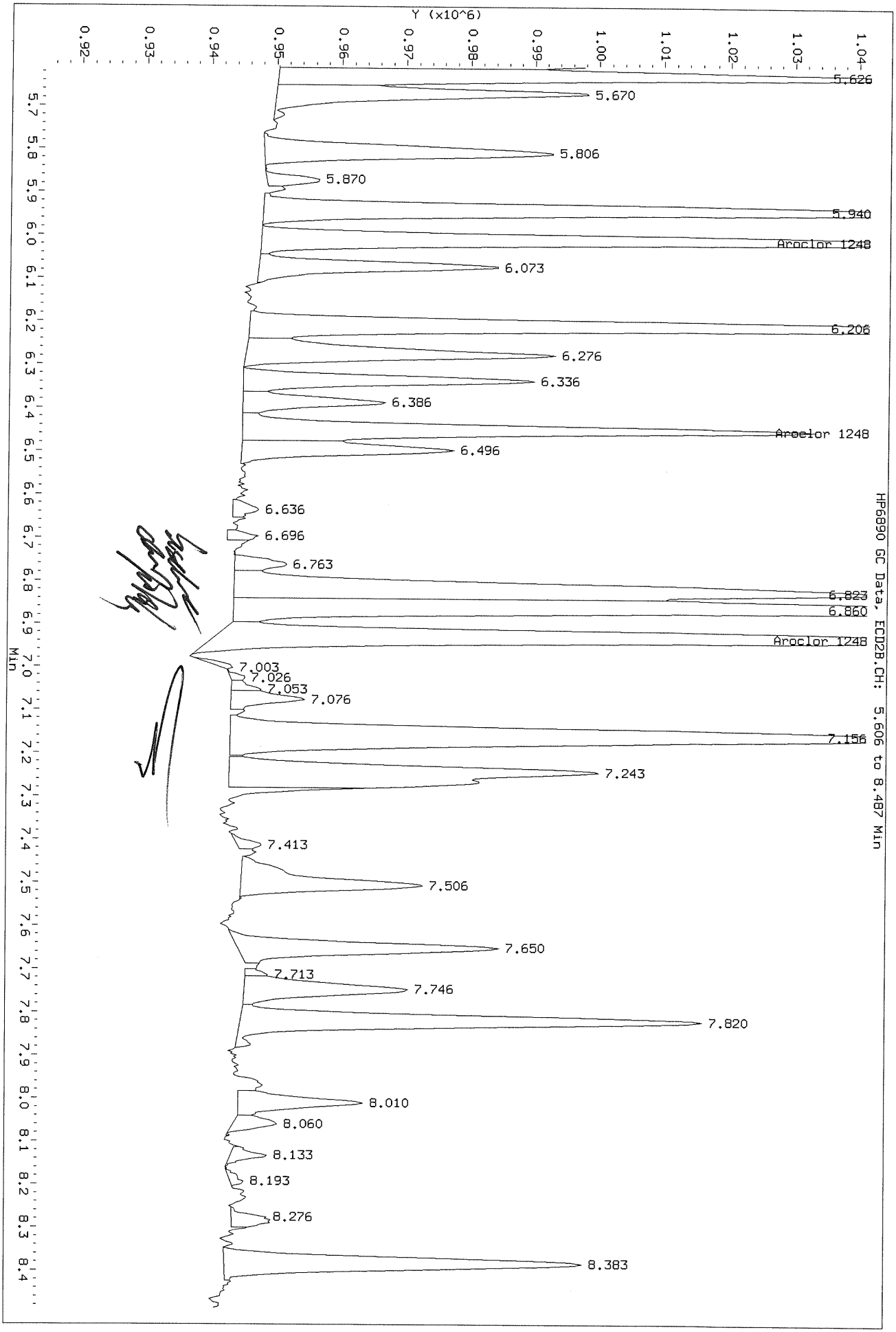
Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

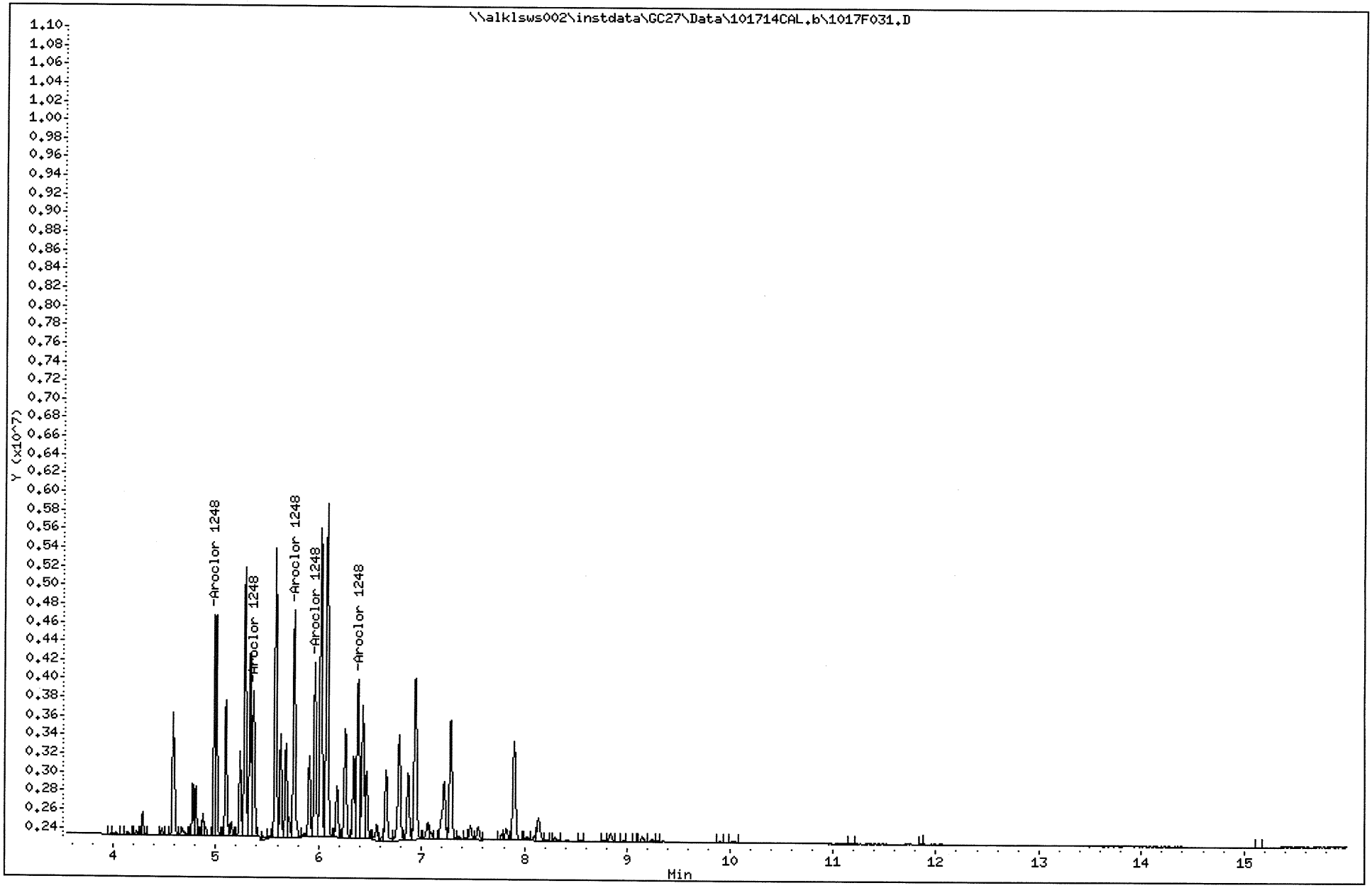
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



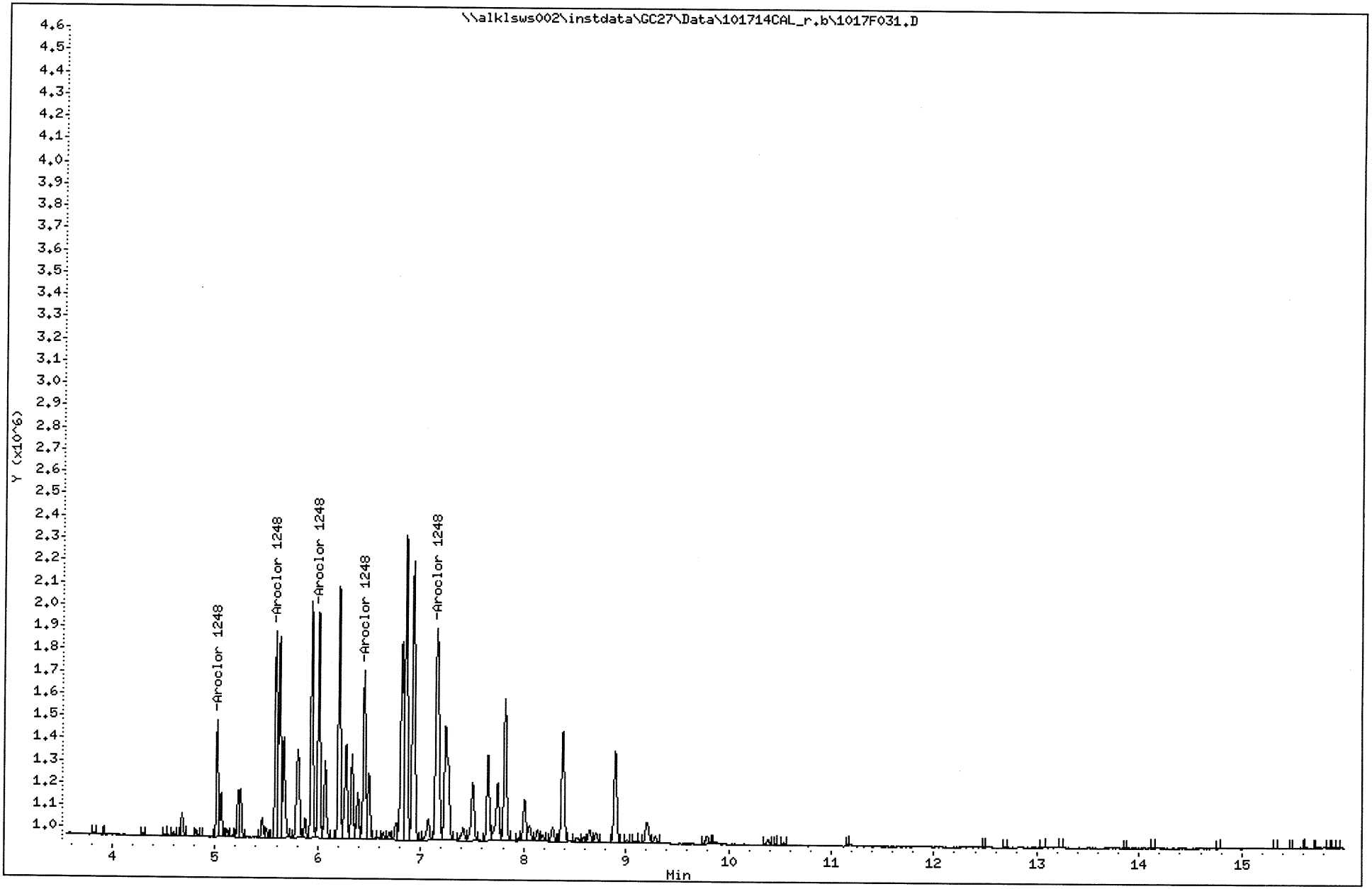
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

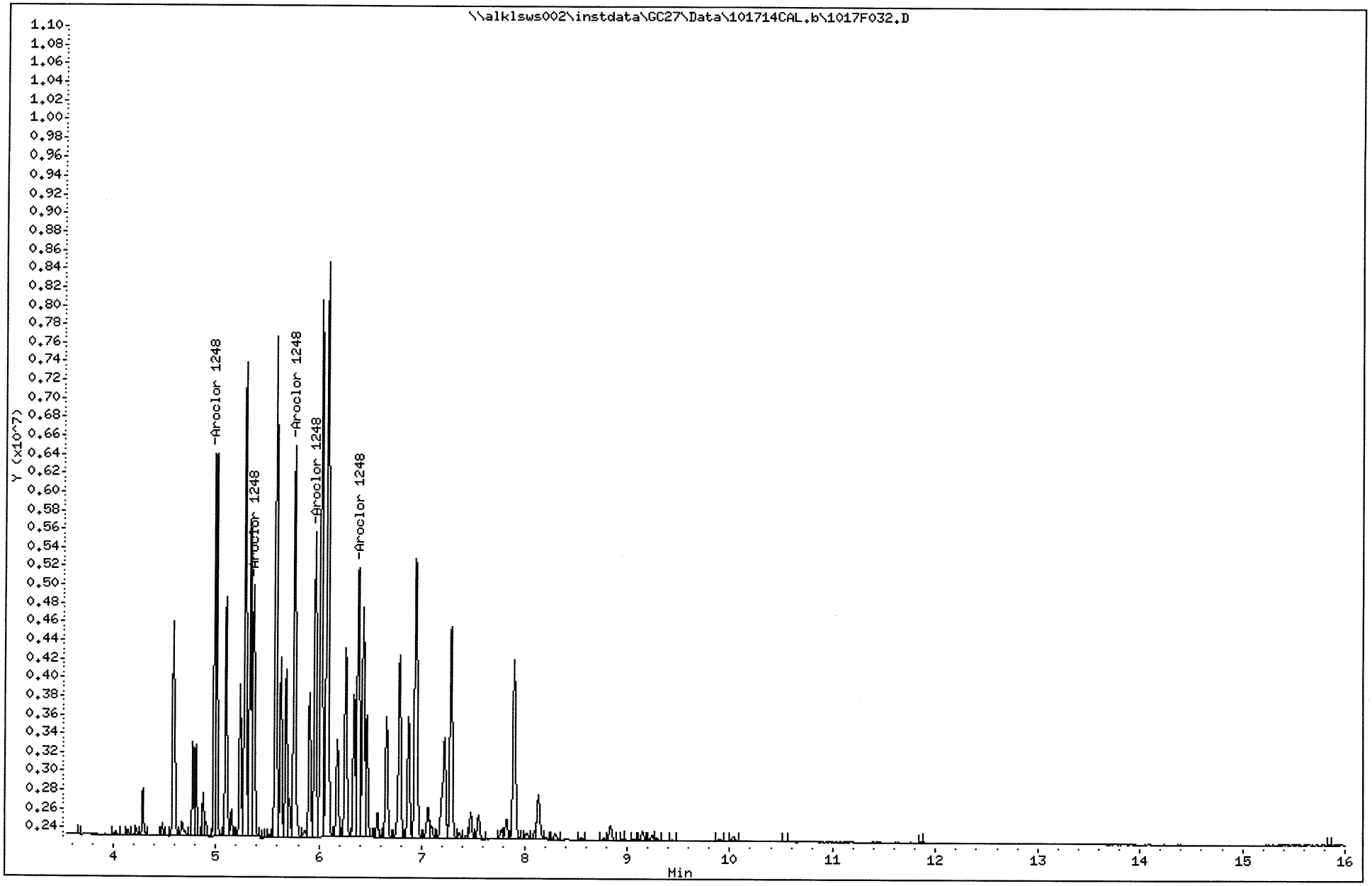
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



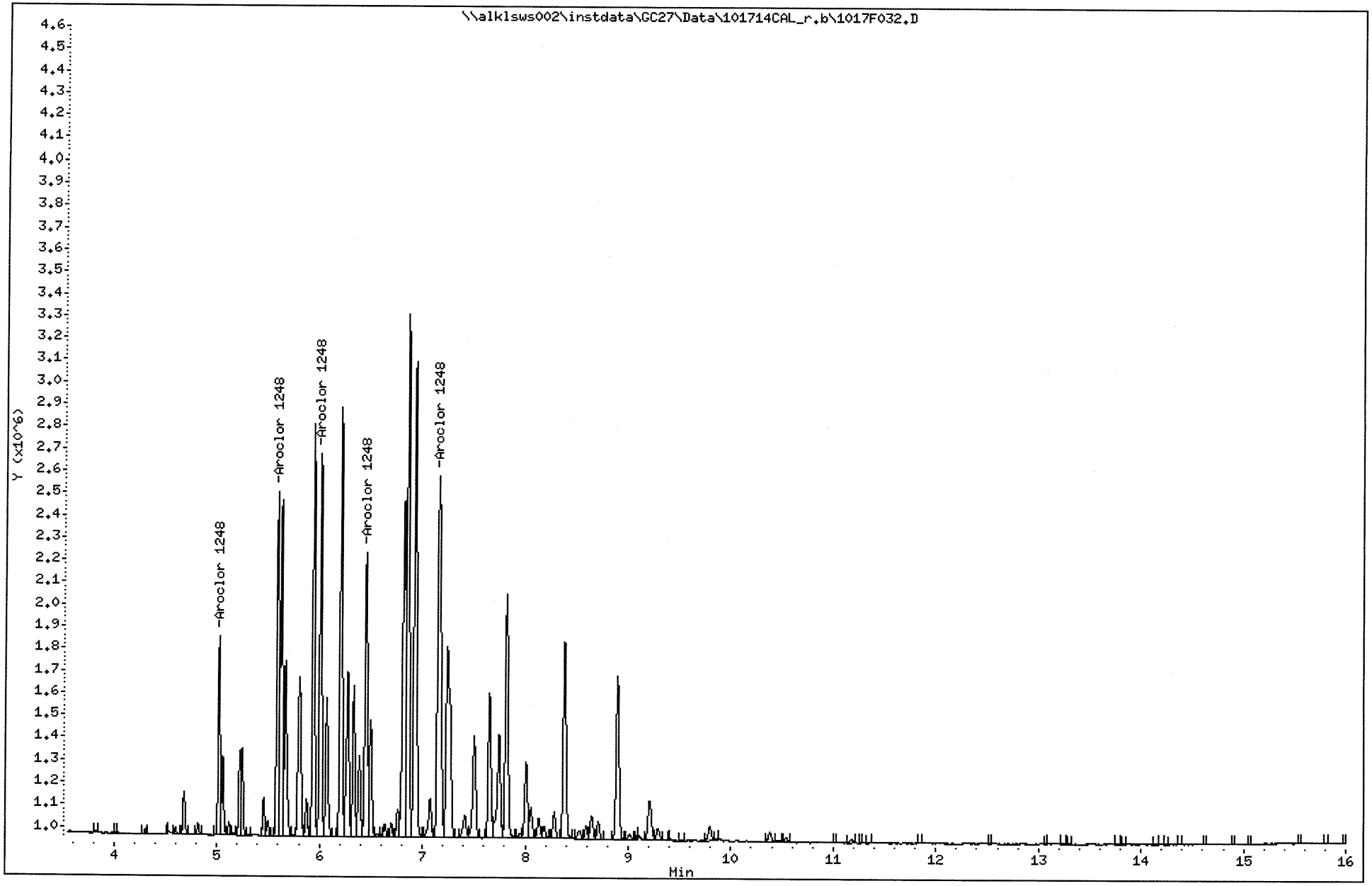
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

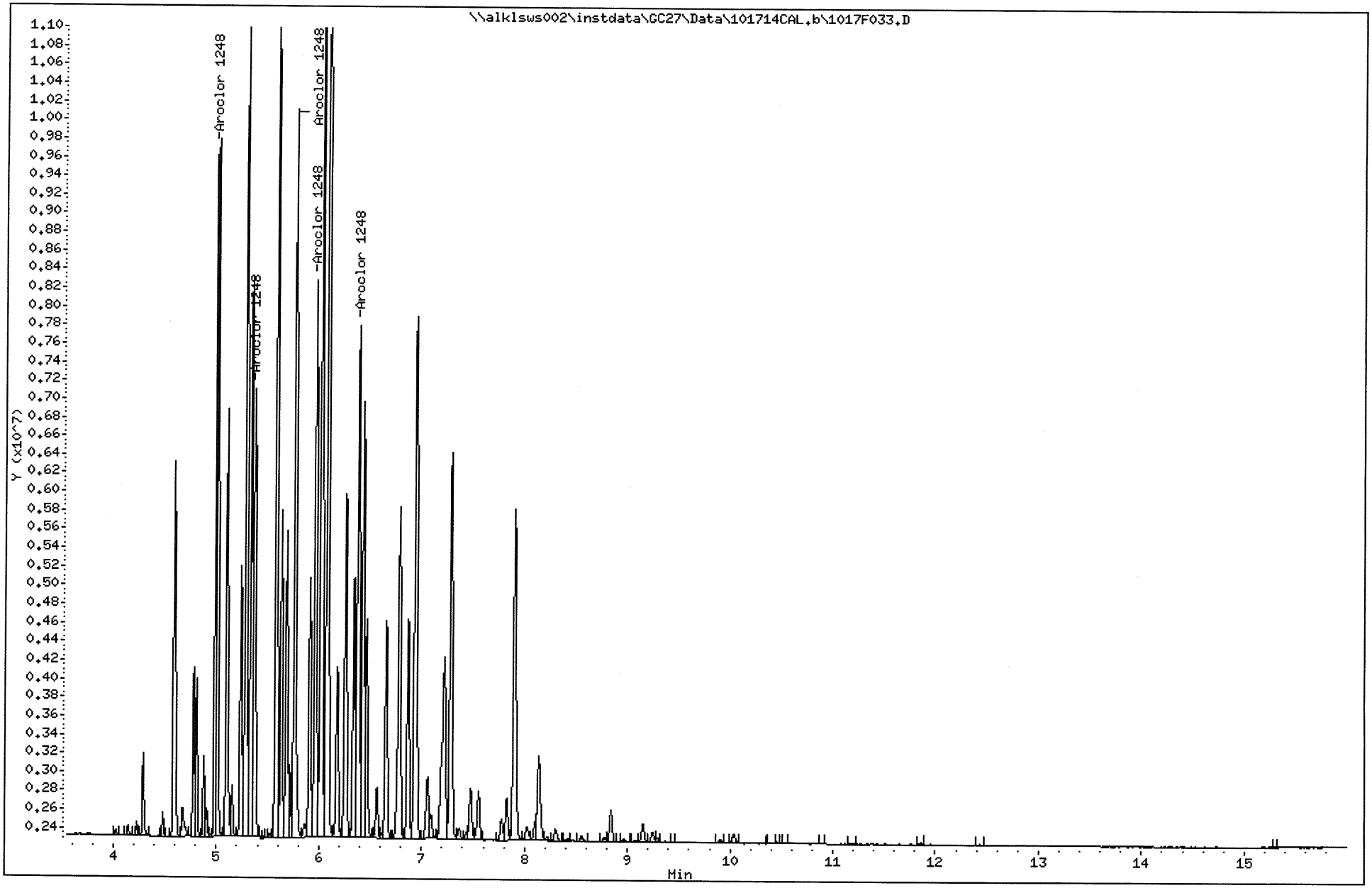
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

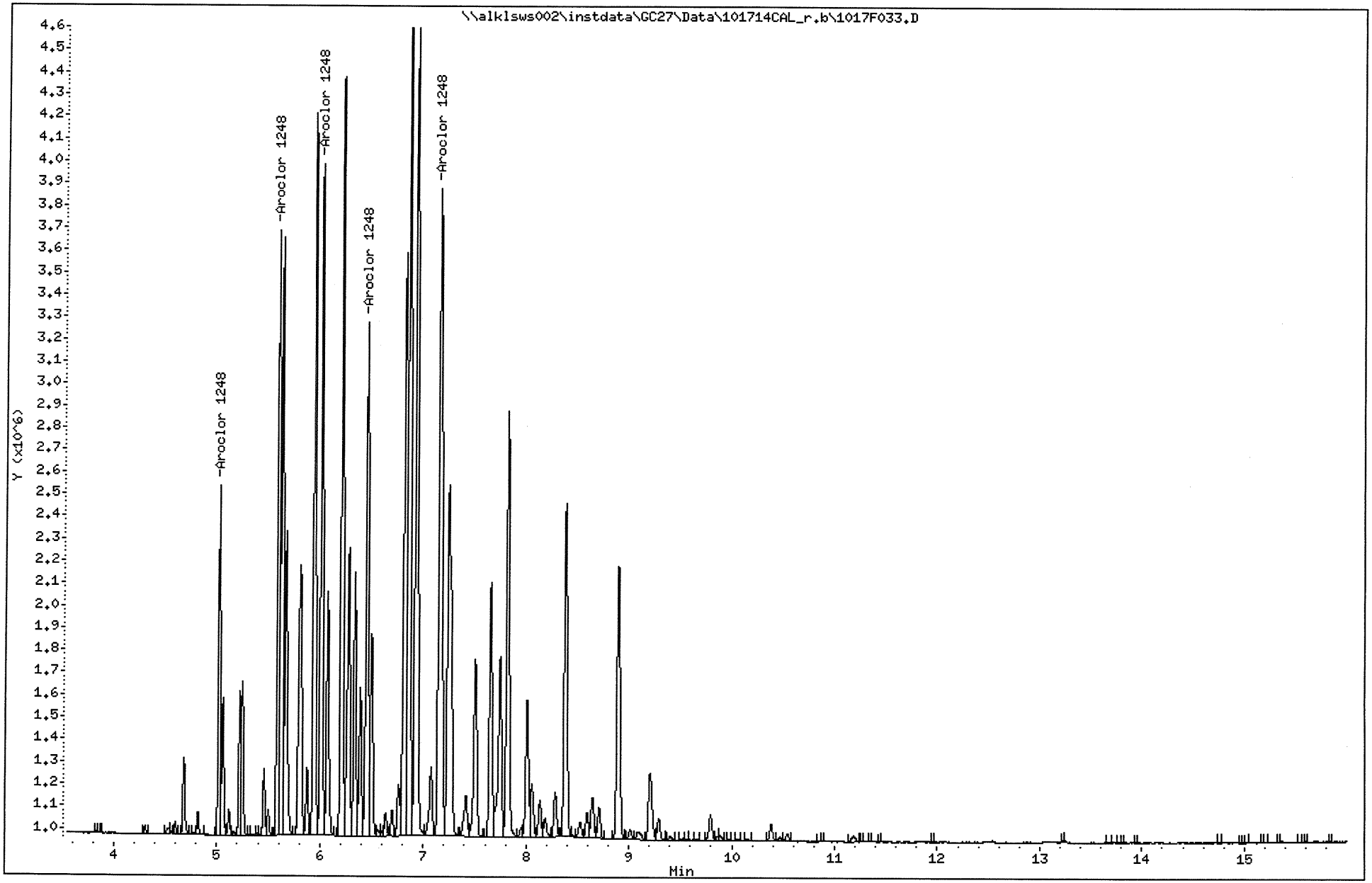


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

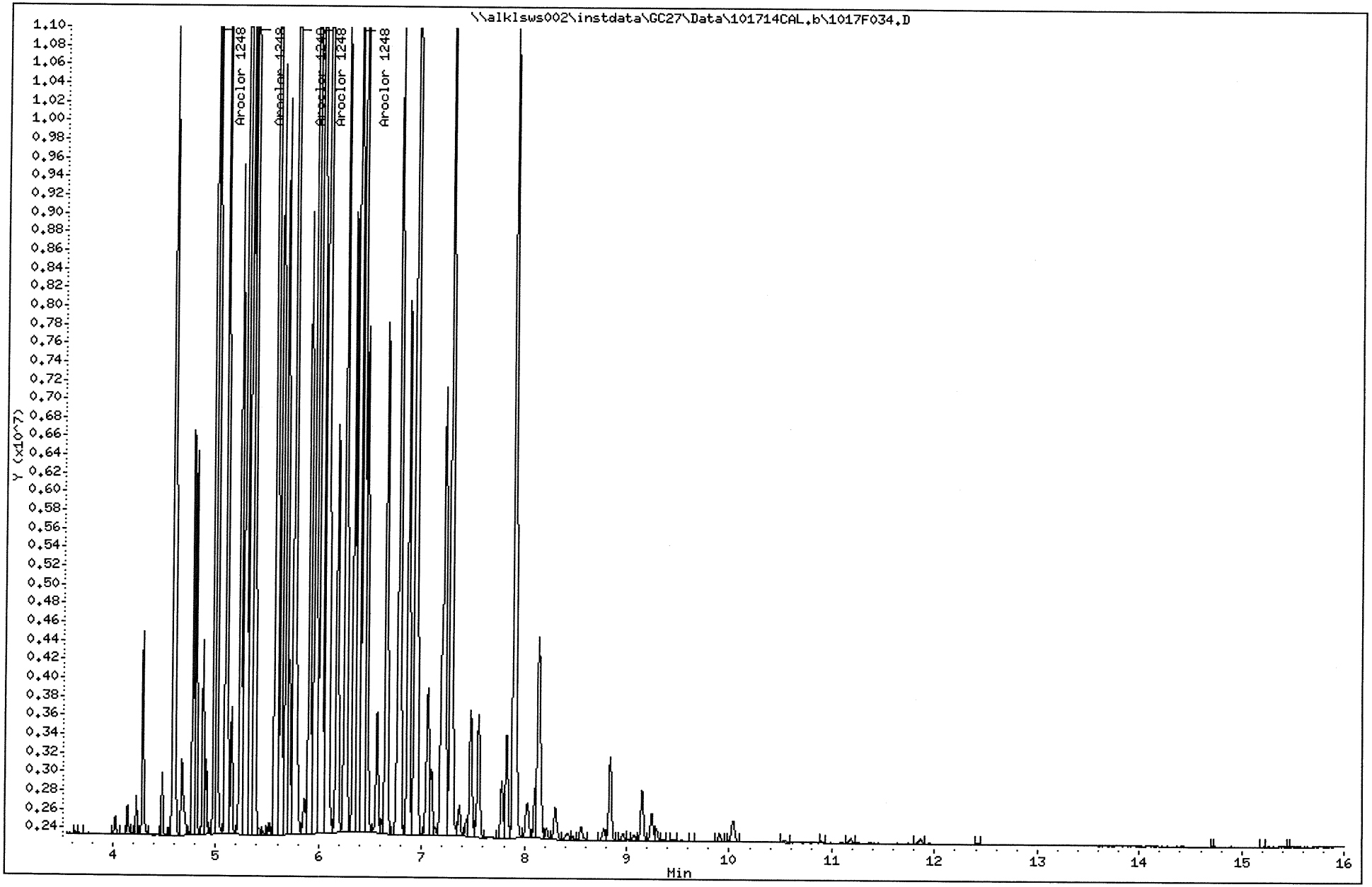
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

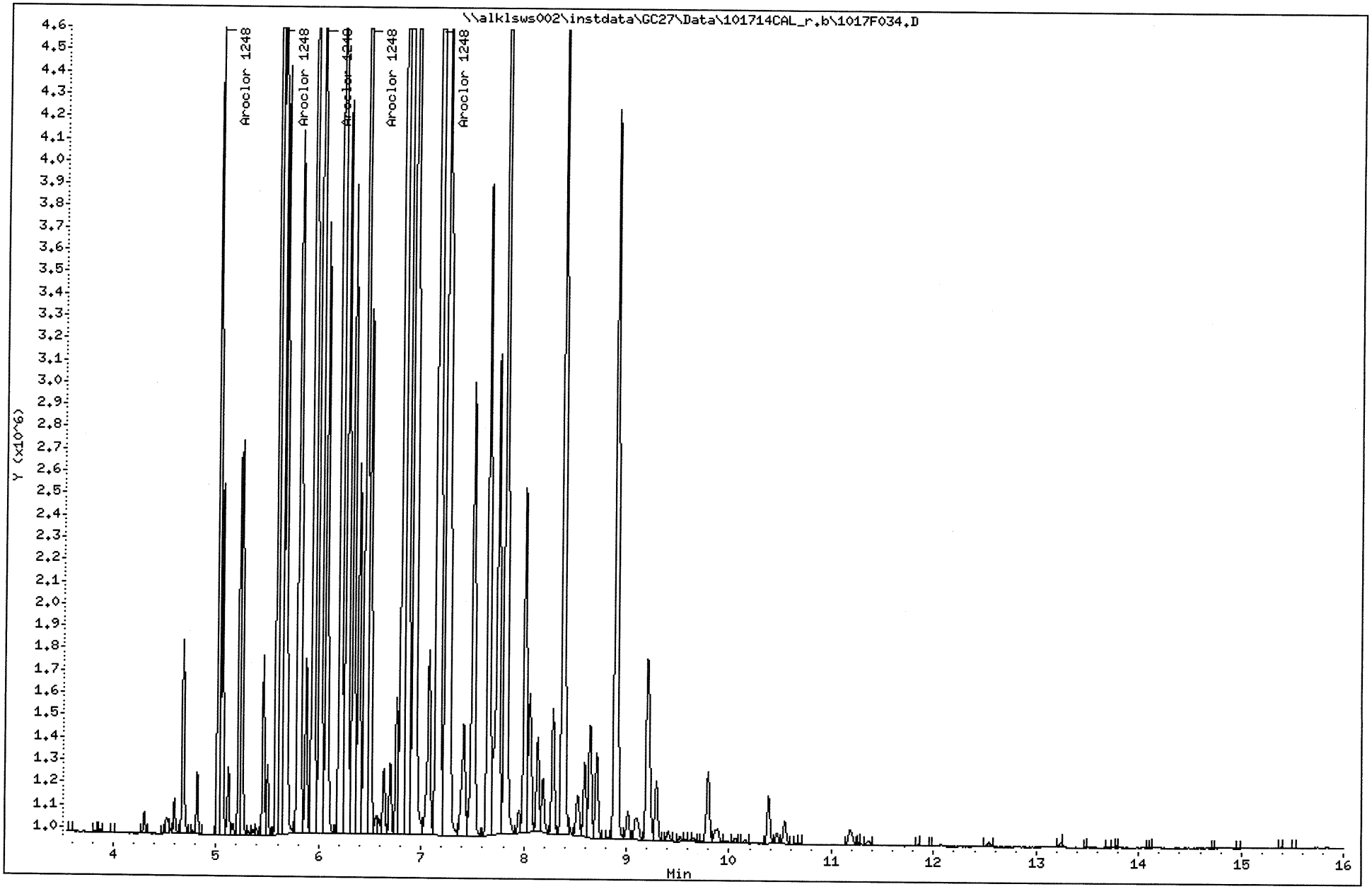


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

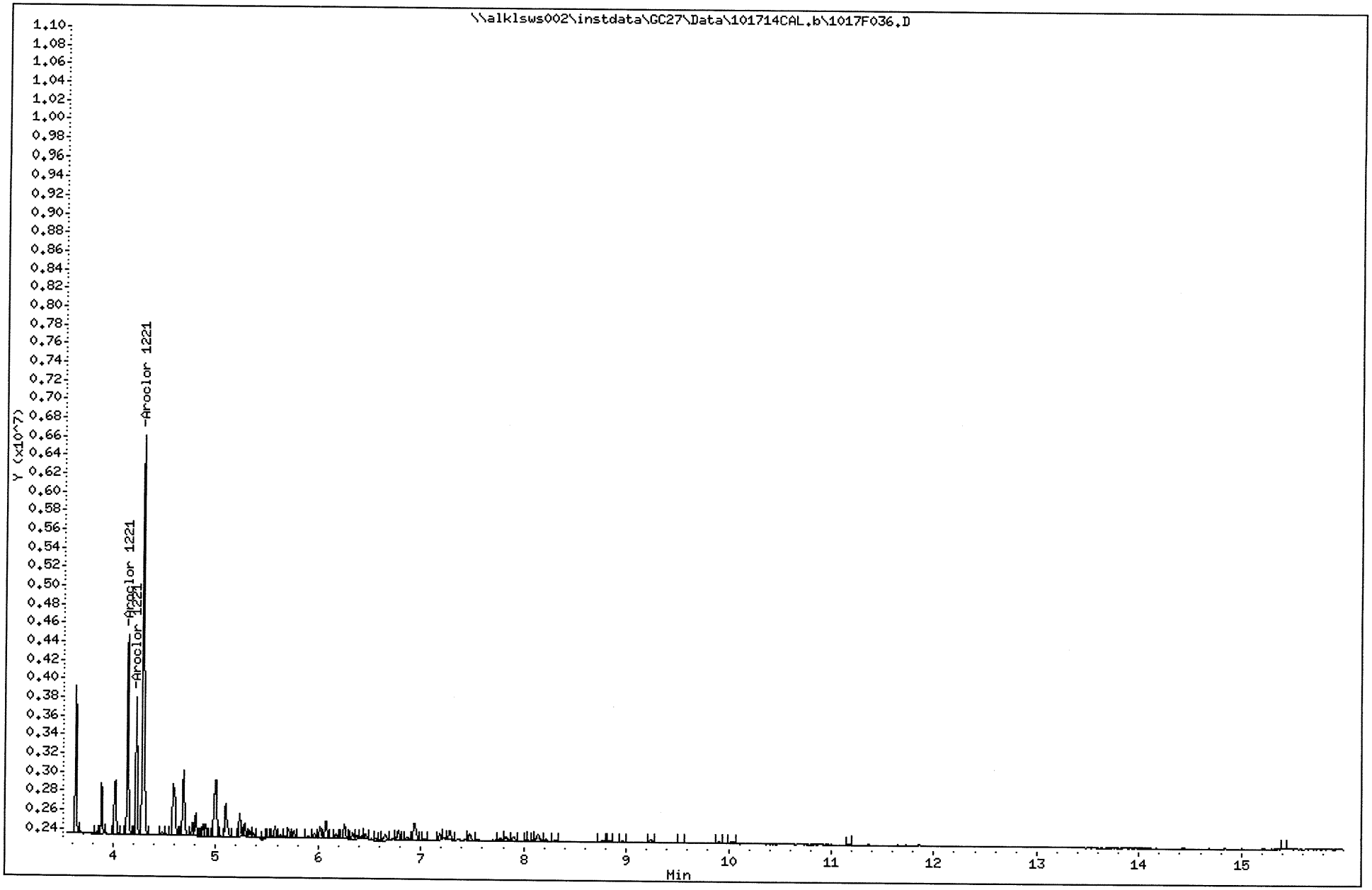
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



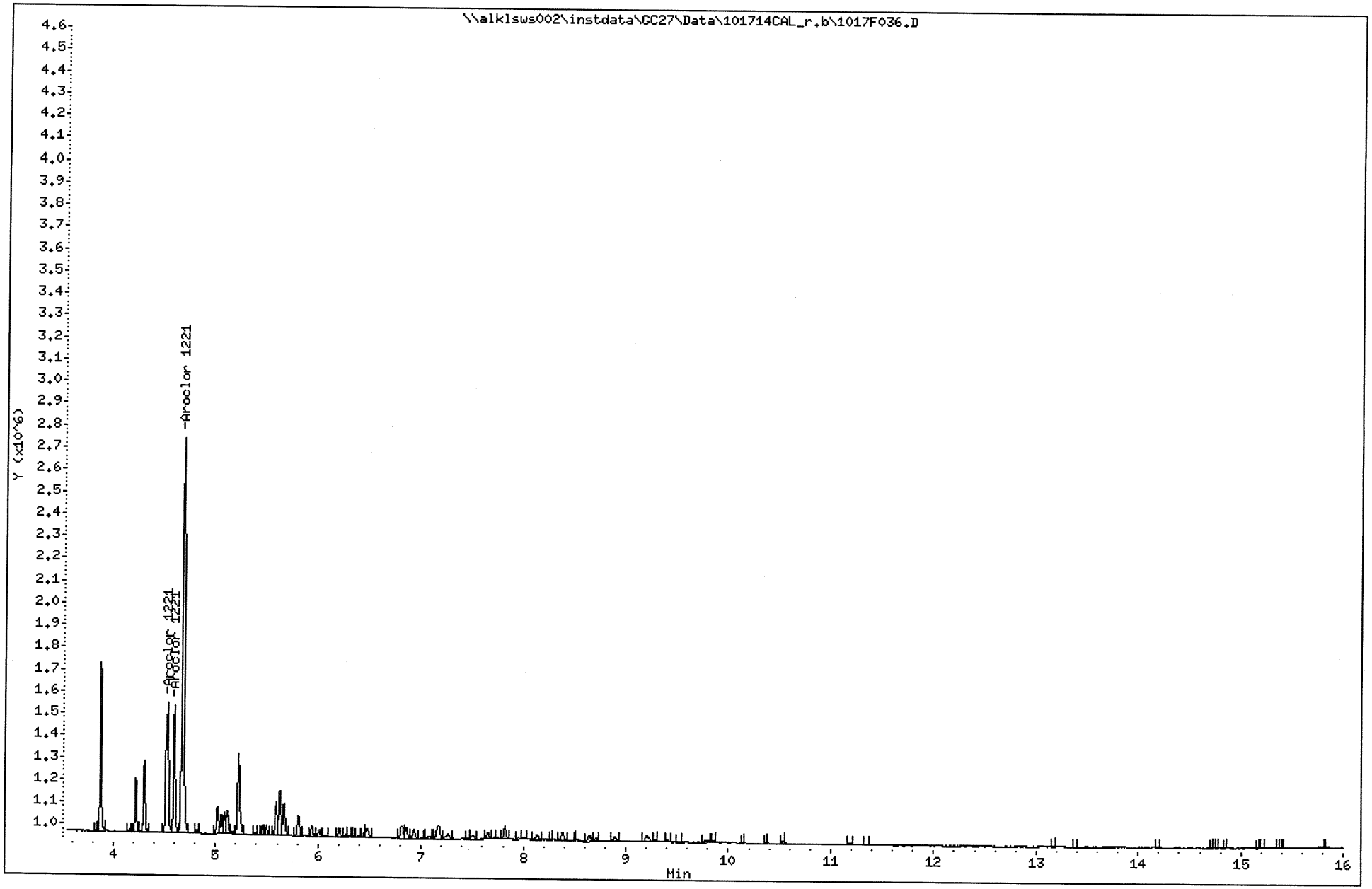
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

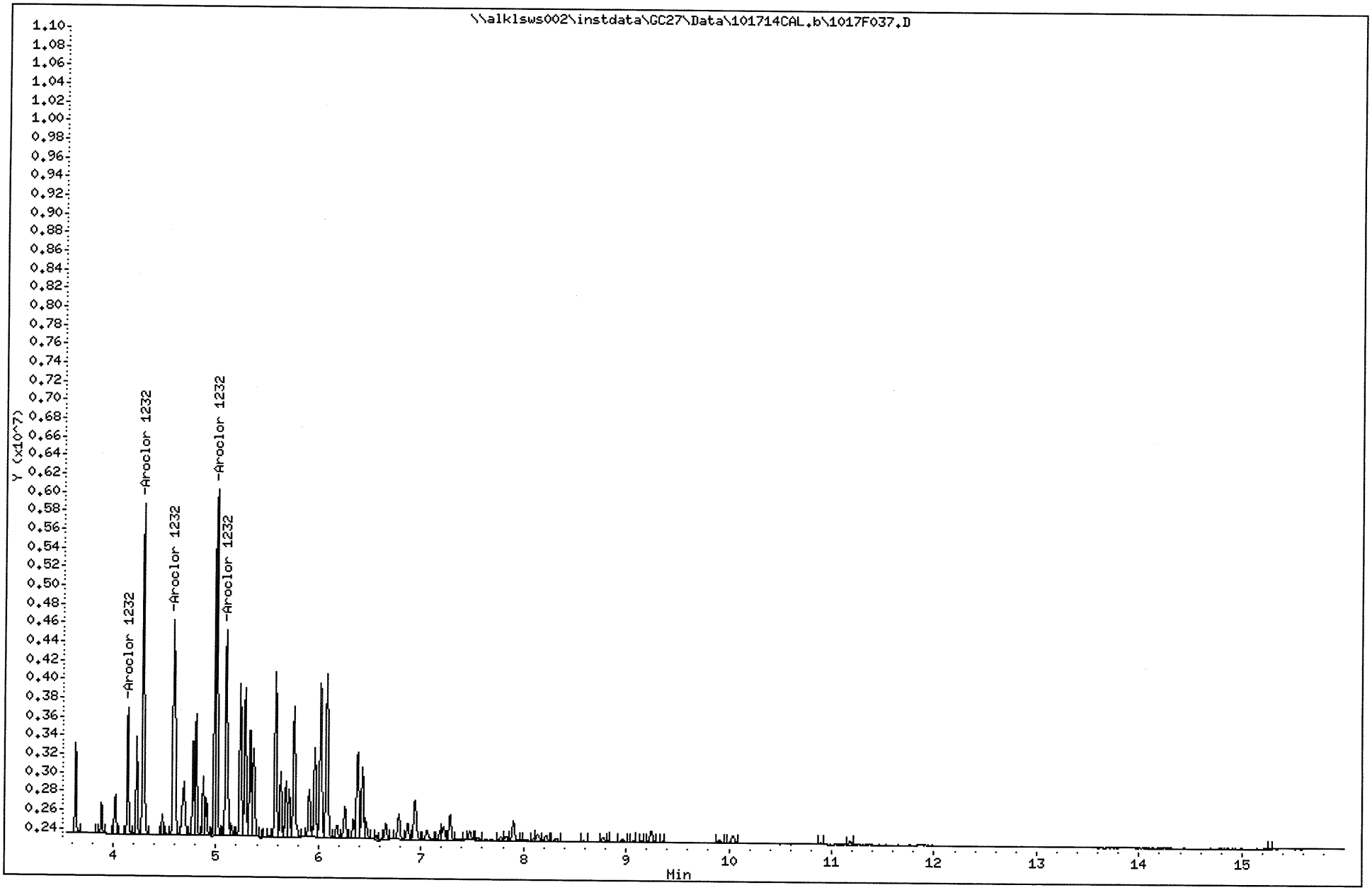
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



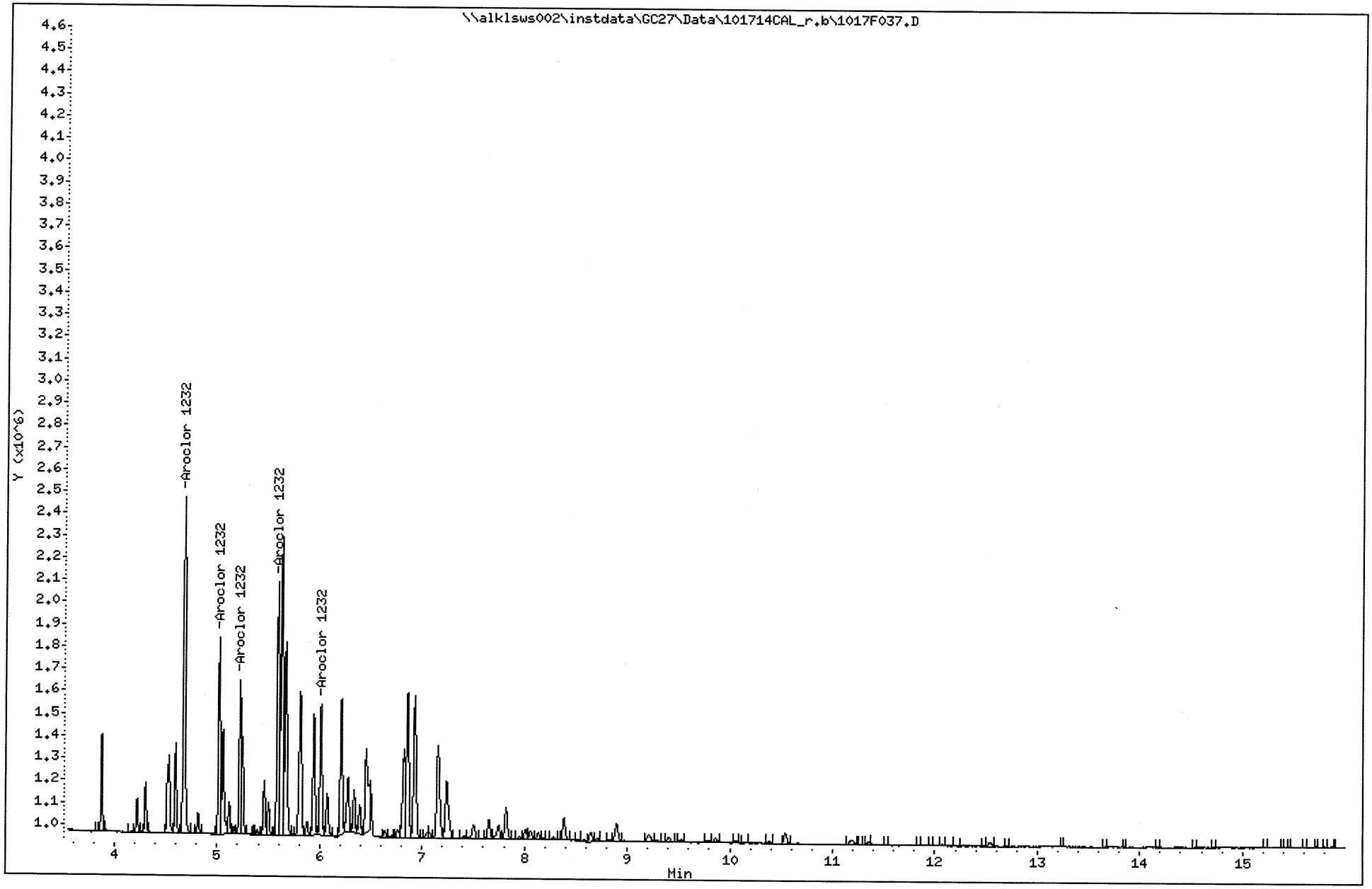
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

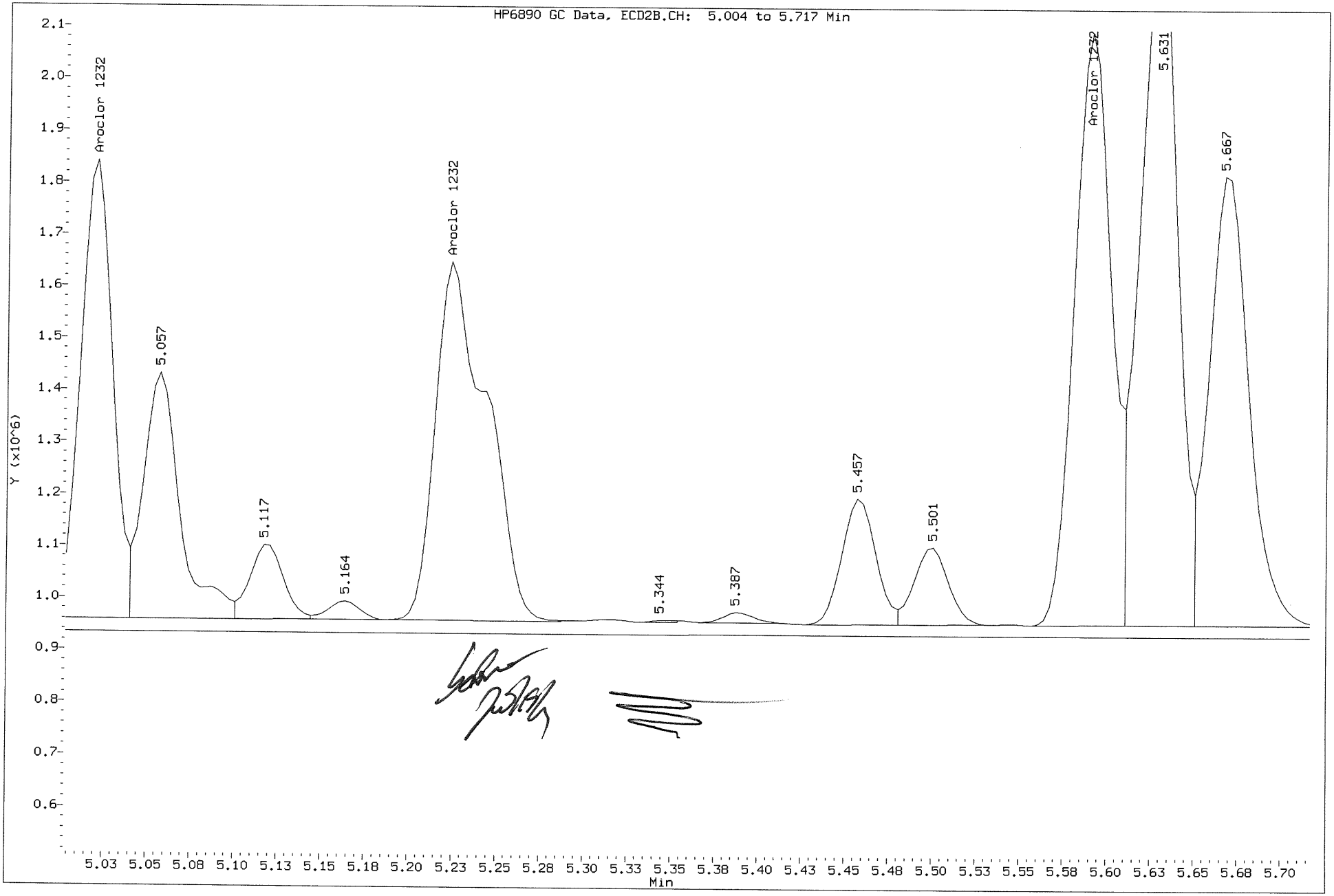
Operator: JMSmith

Column phase: DB-XLB

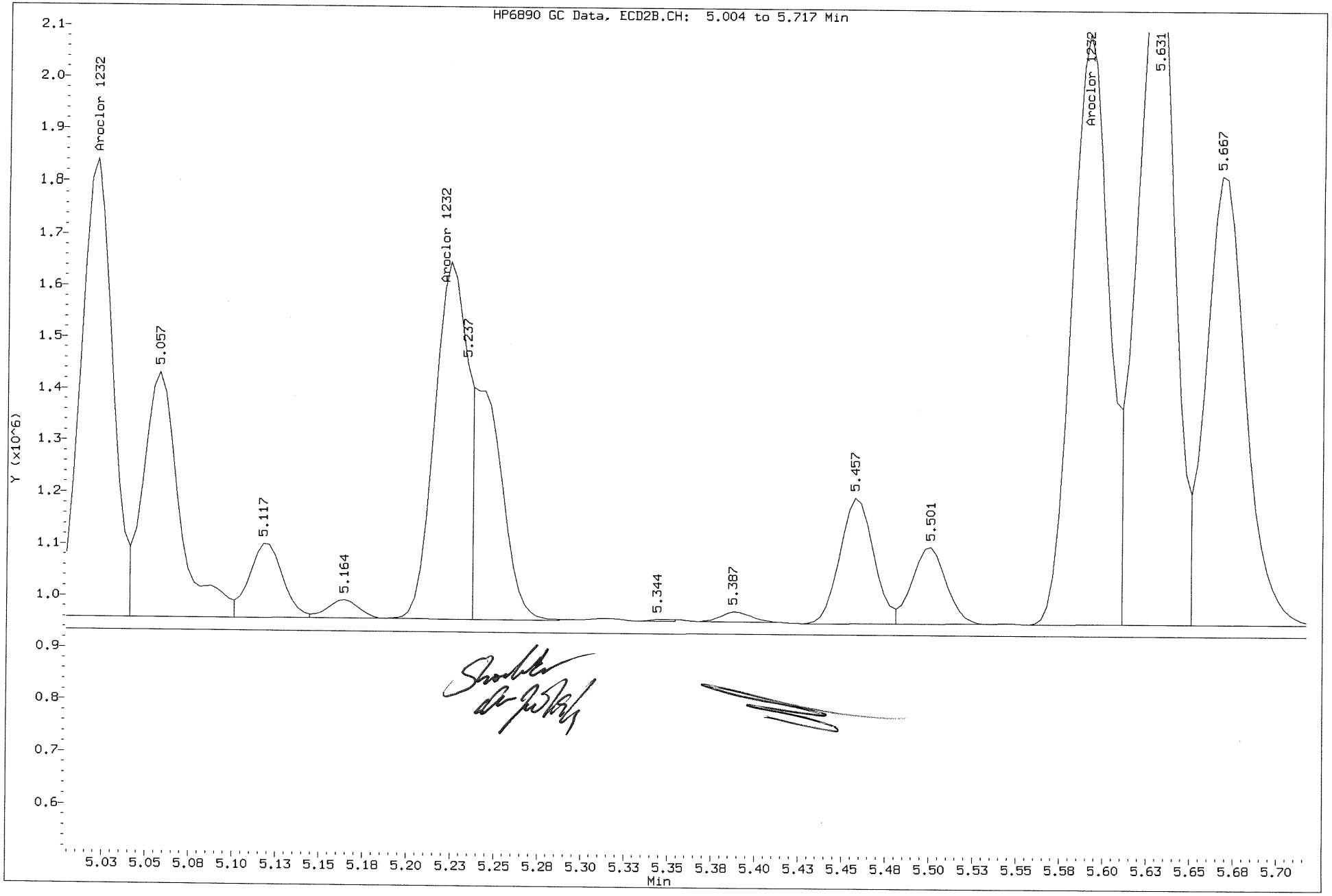
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

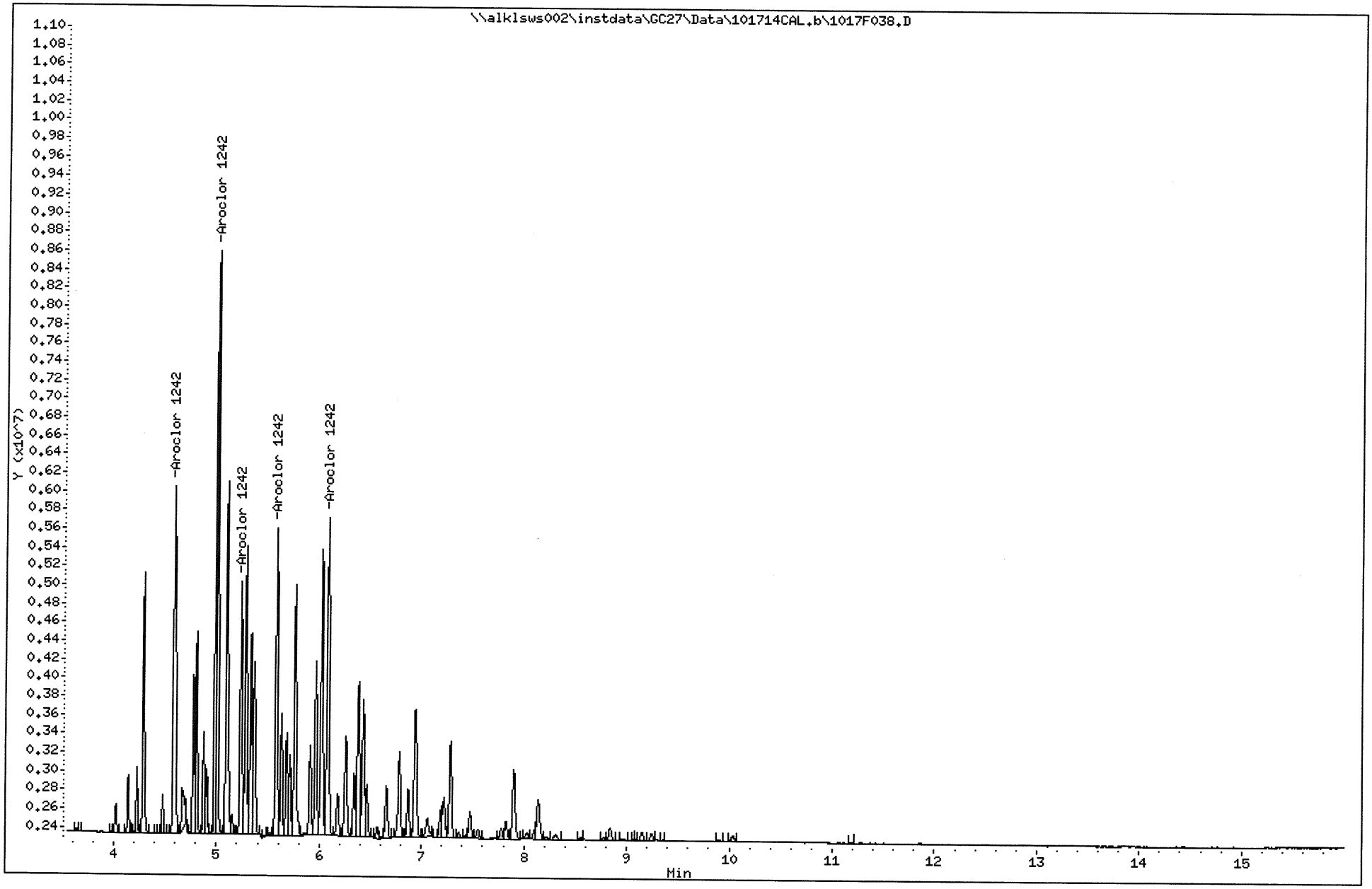
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

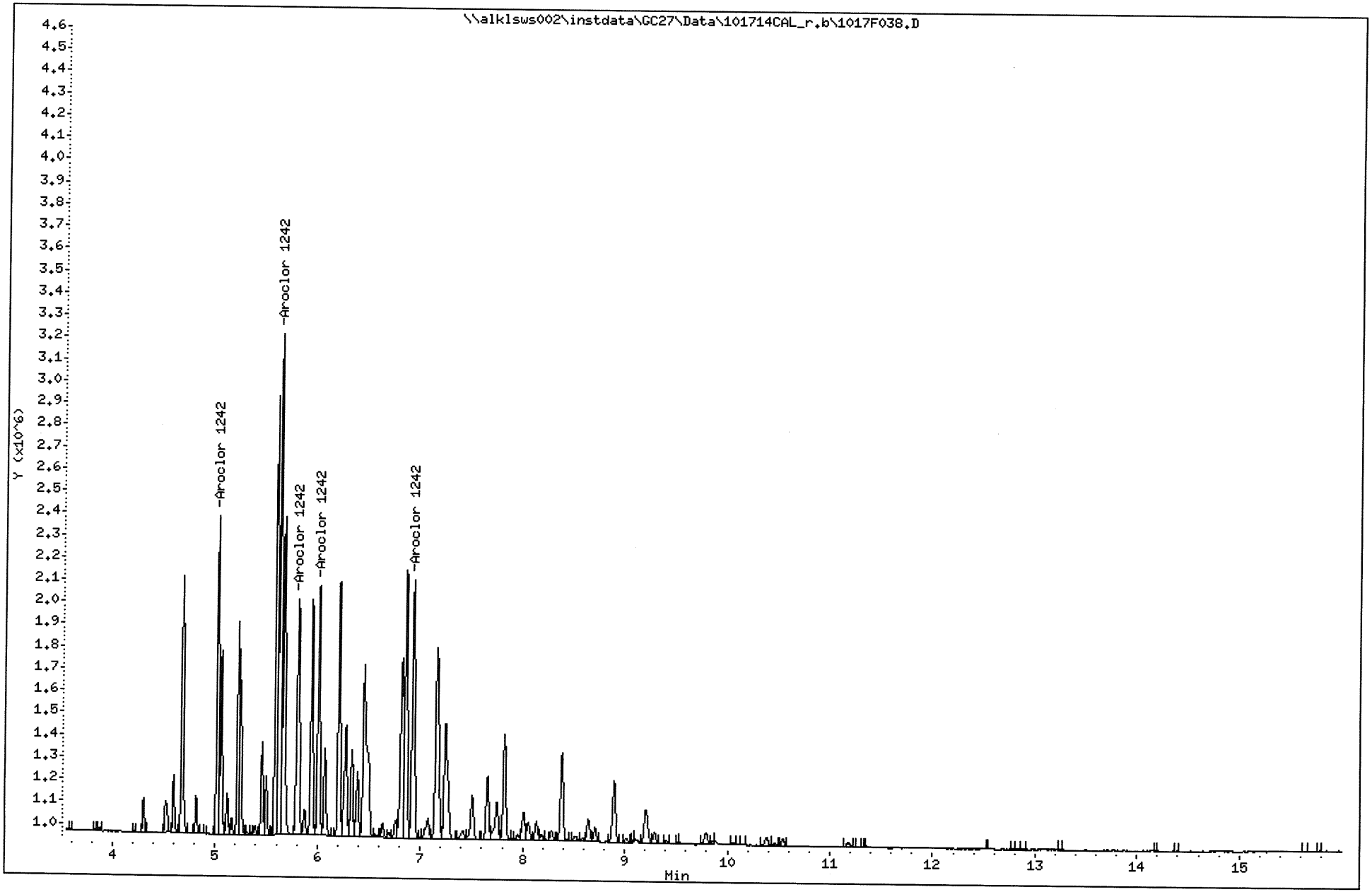


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

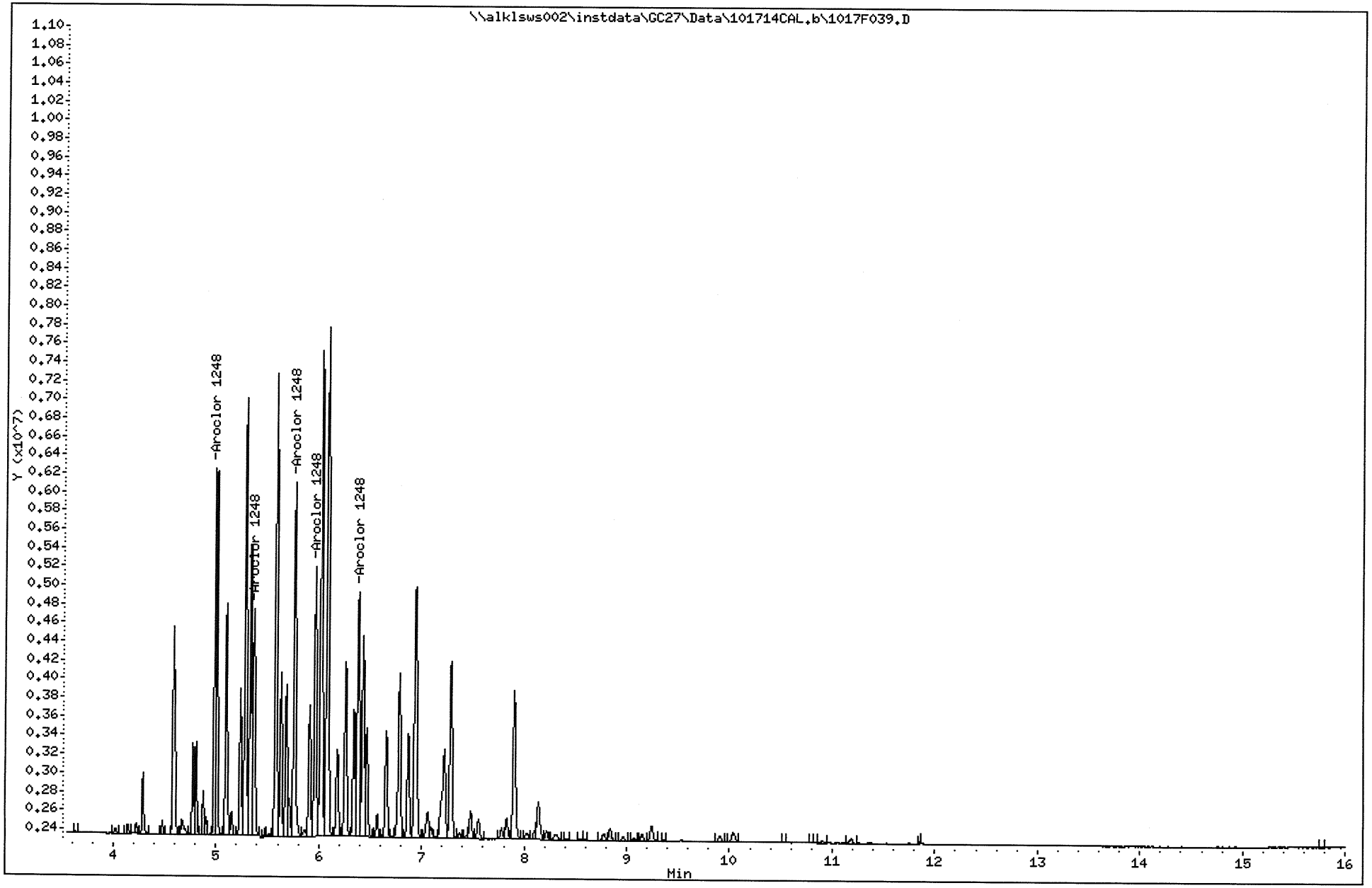
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



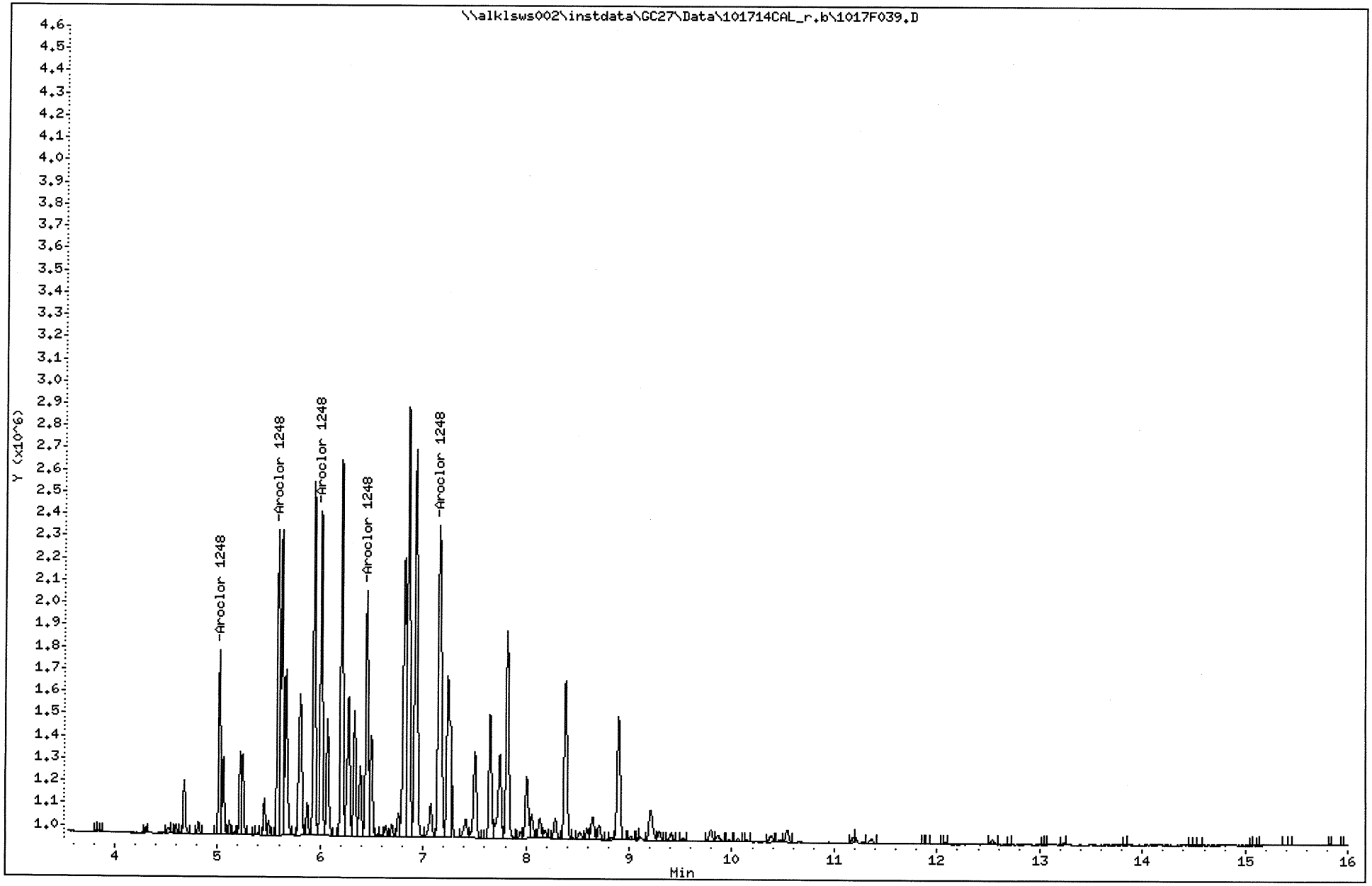
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

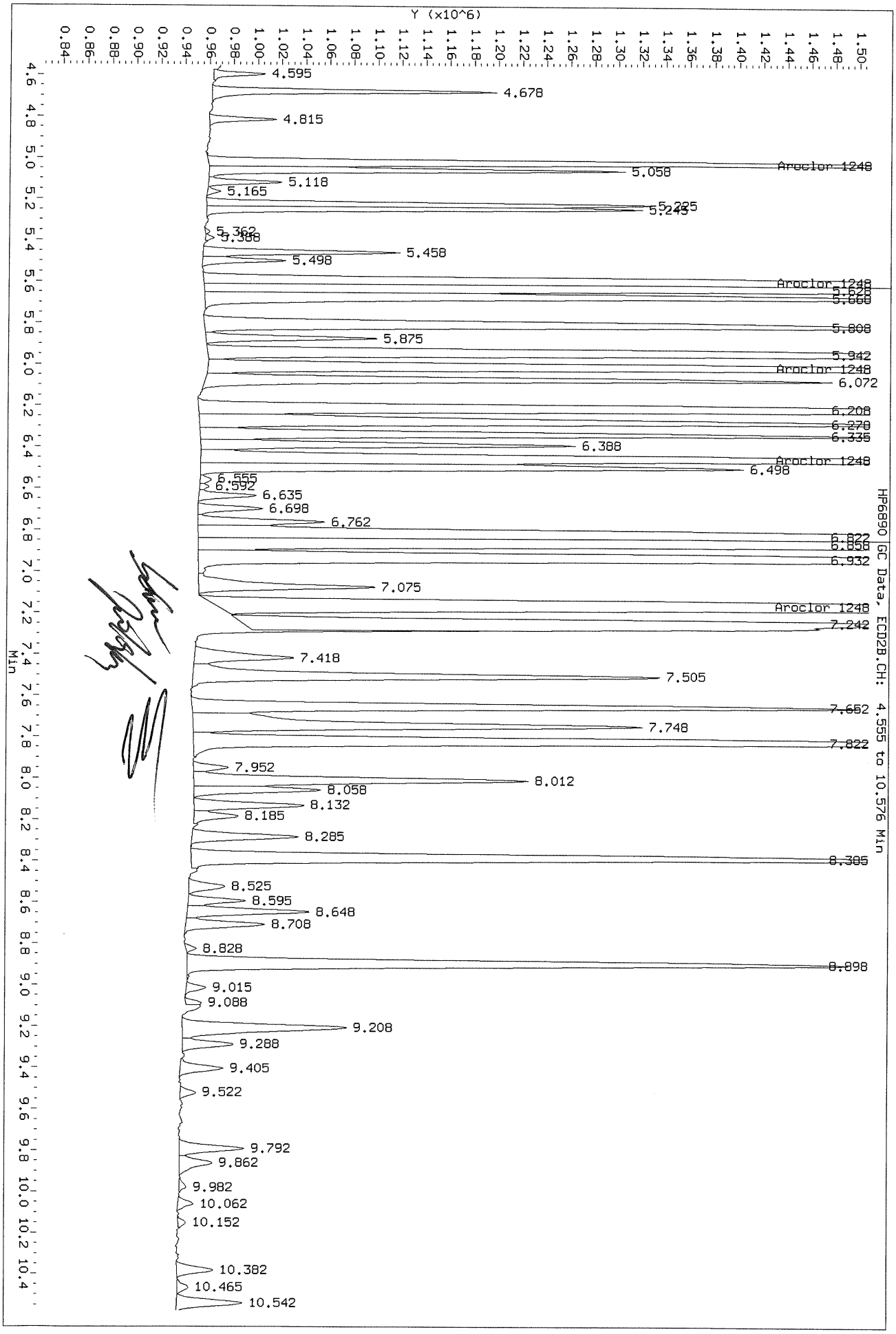
Operator: JMSmith

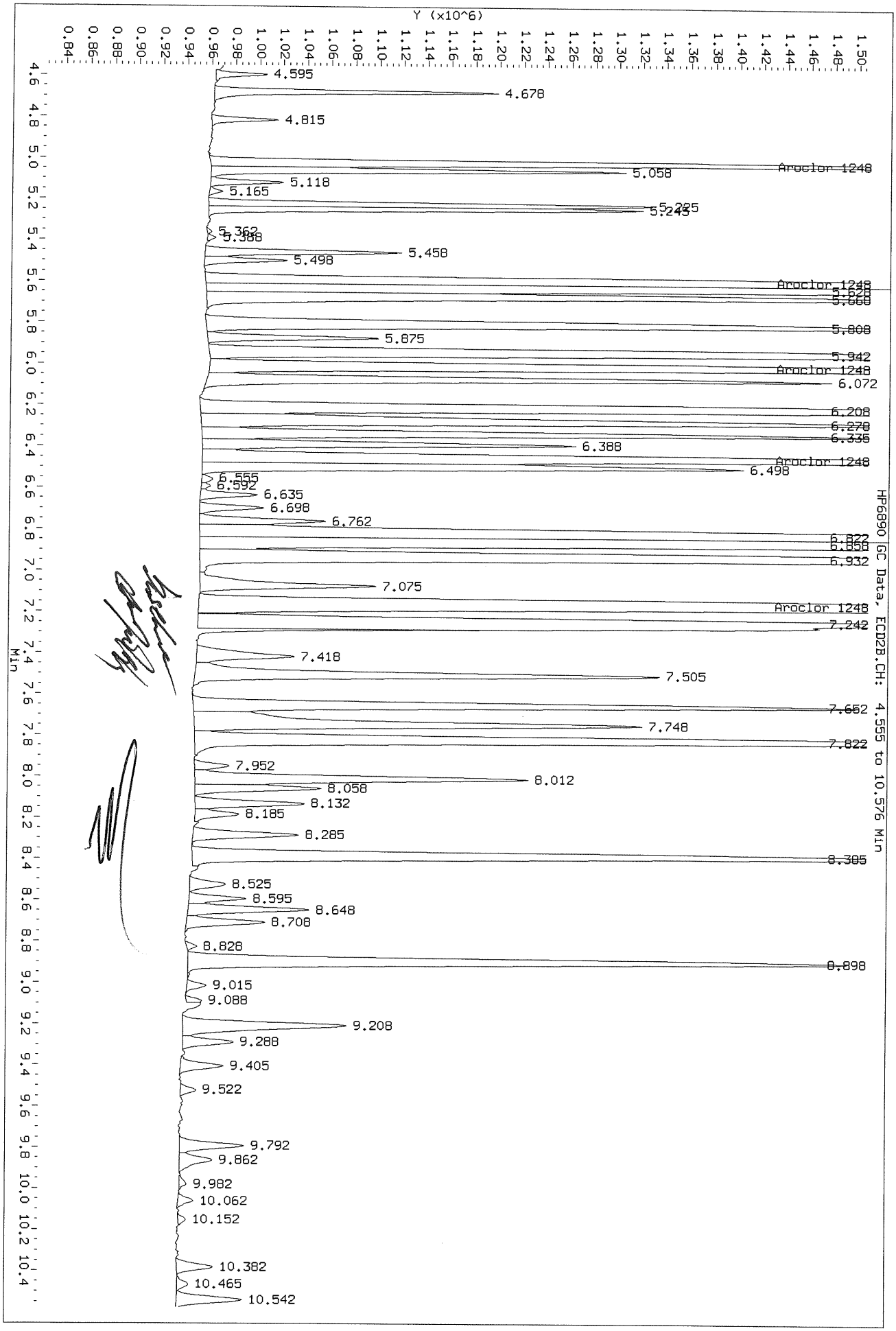
Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
4.595
4.678
4.815
Aroclor 1248
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
Aroclor 1248
5.628
5.668
5.808
5.875
5.942
Aroclor 1248
6.072
6.208
6.278
6.335
6.388
Aroclor 1248
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
Aroclor 1248
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7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
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9.862
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Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

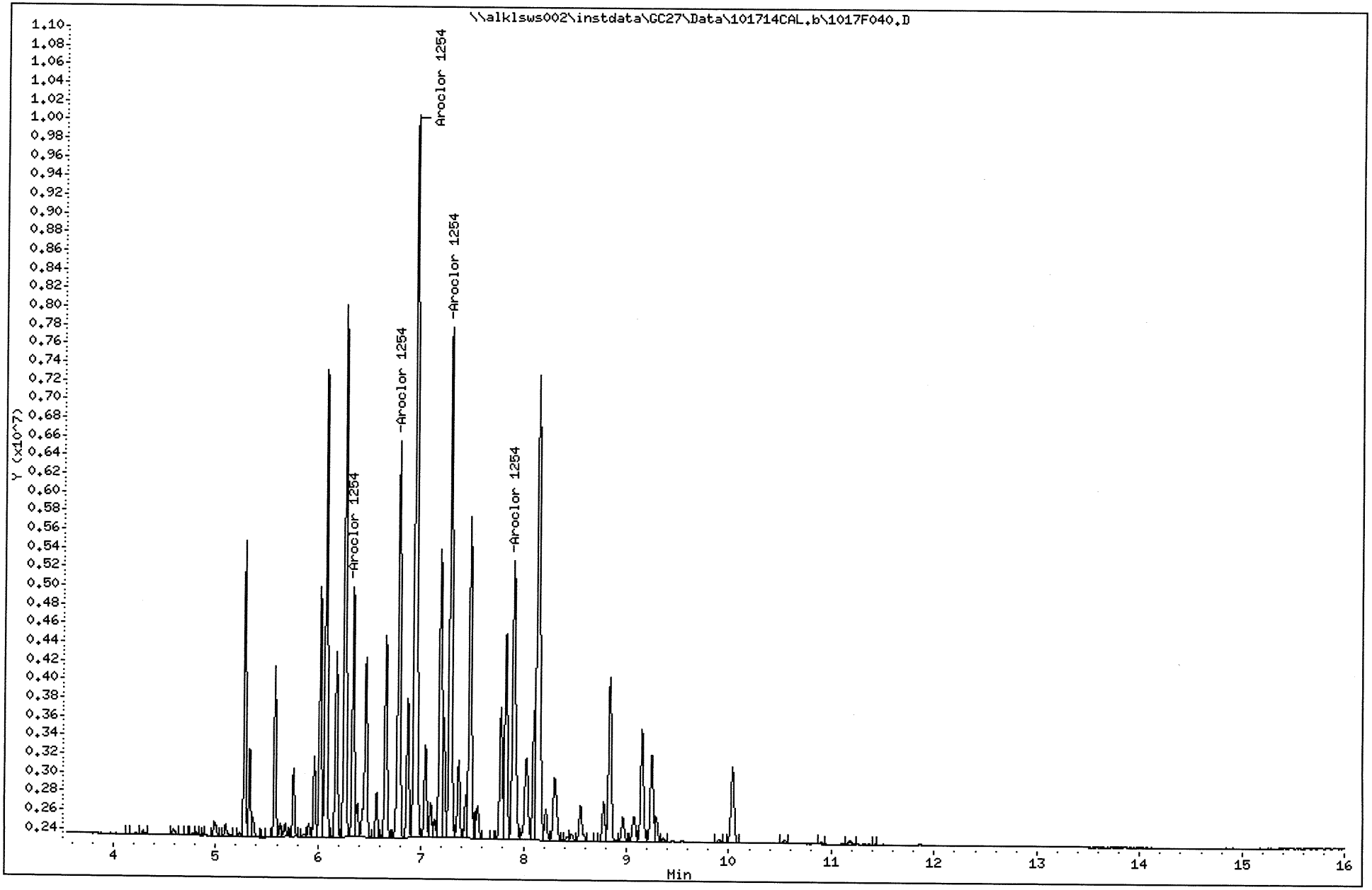
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



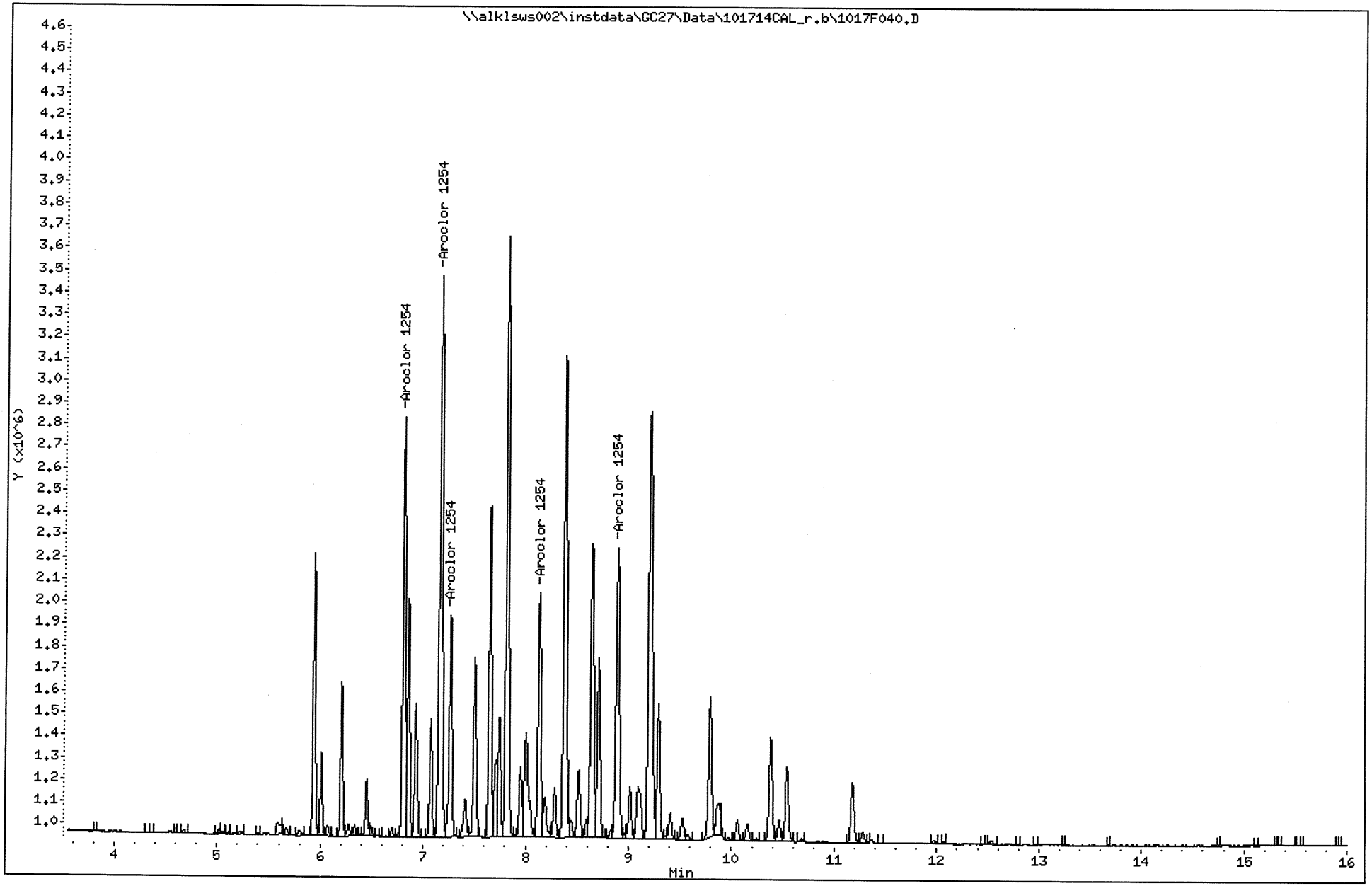
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

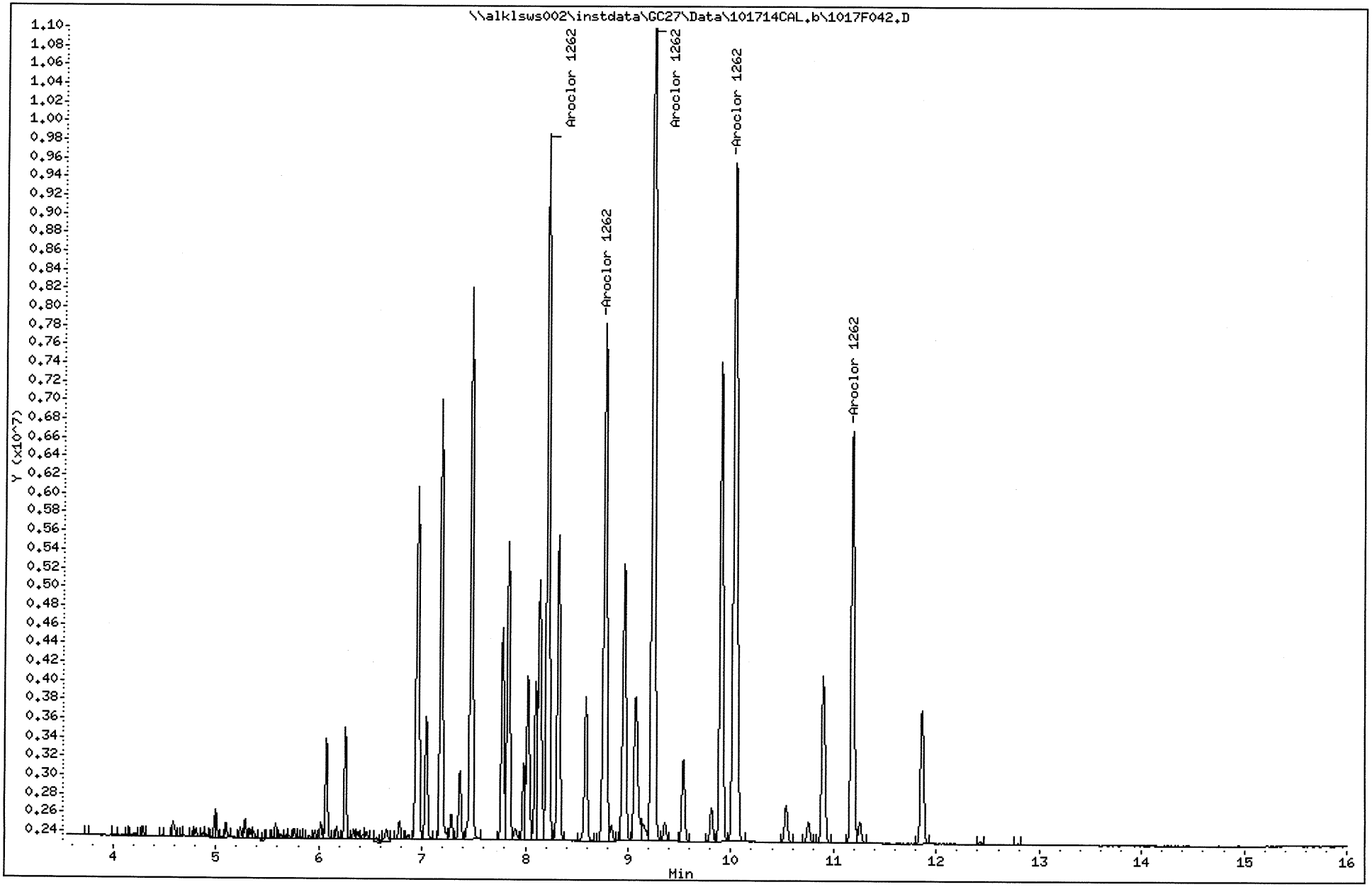
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



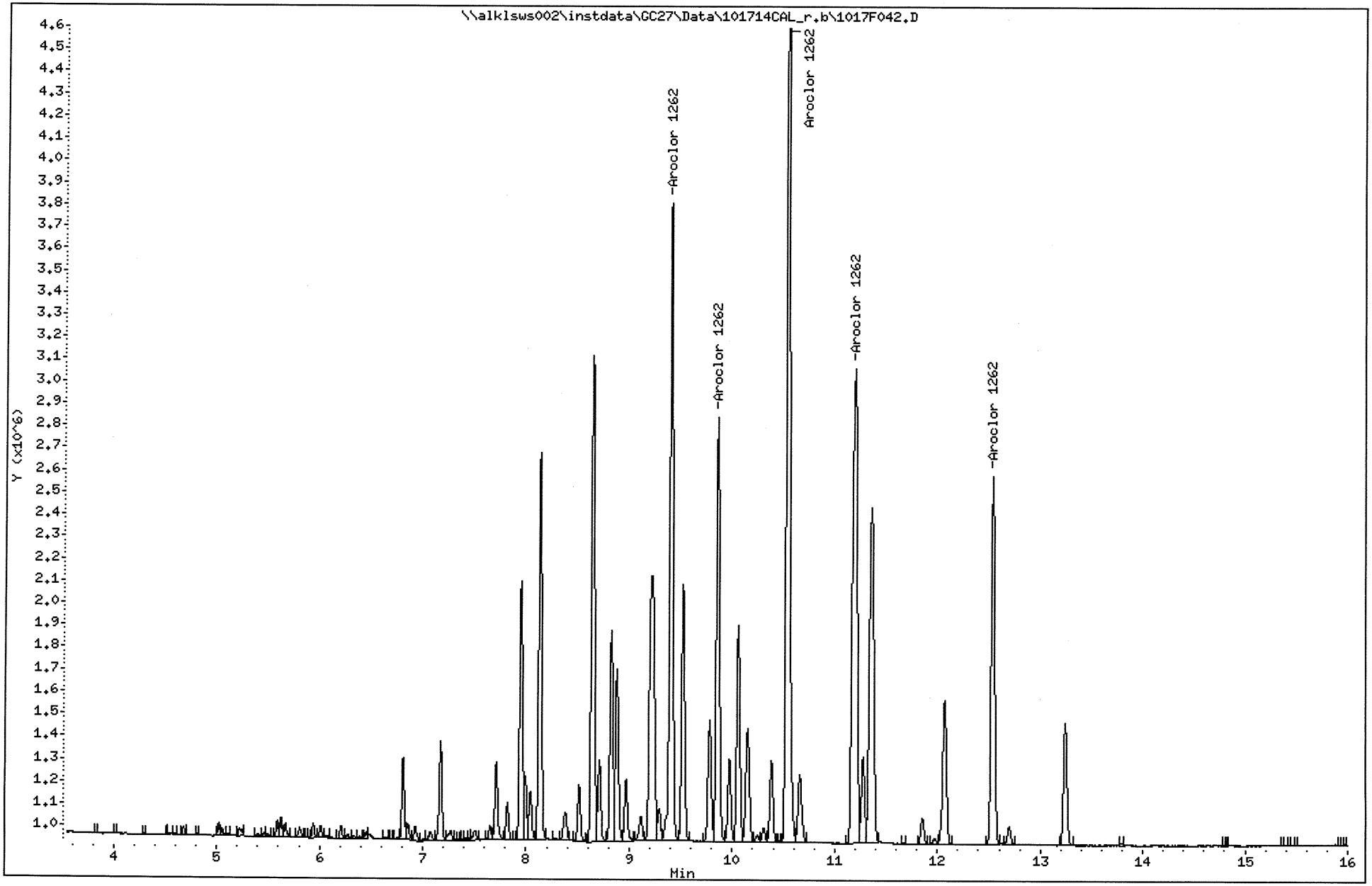
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

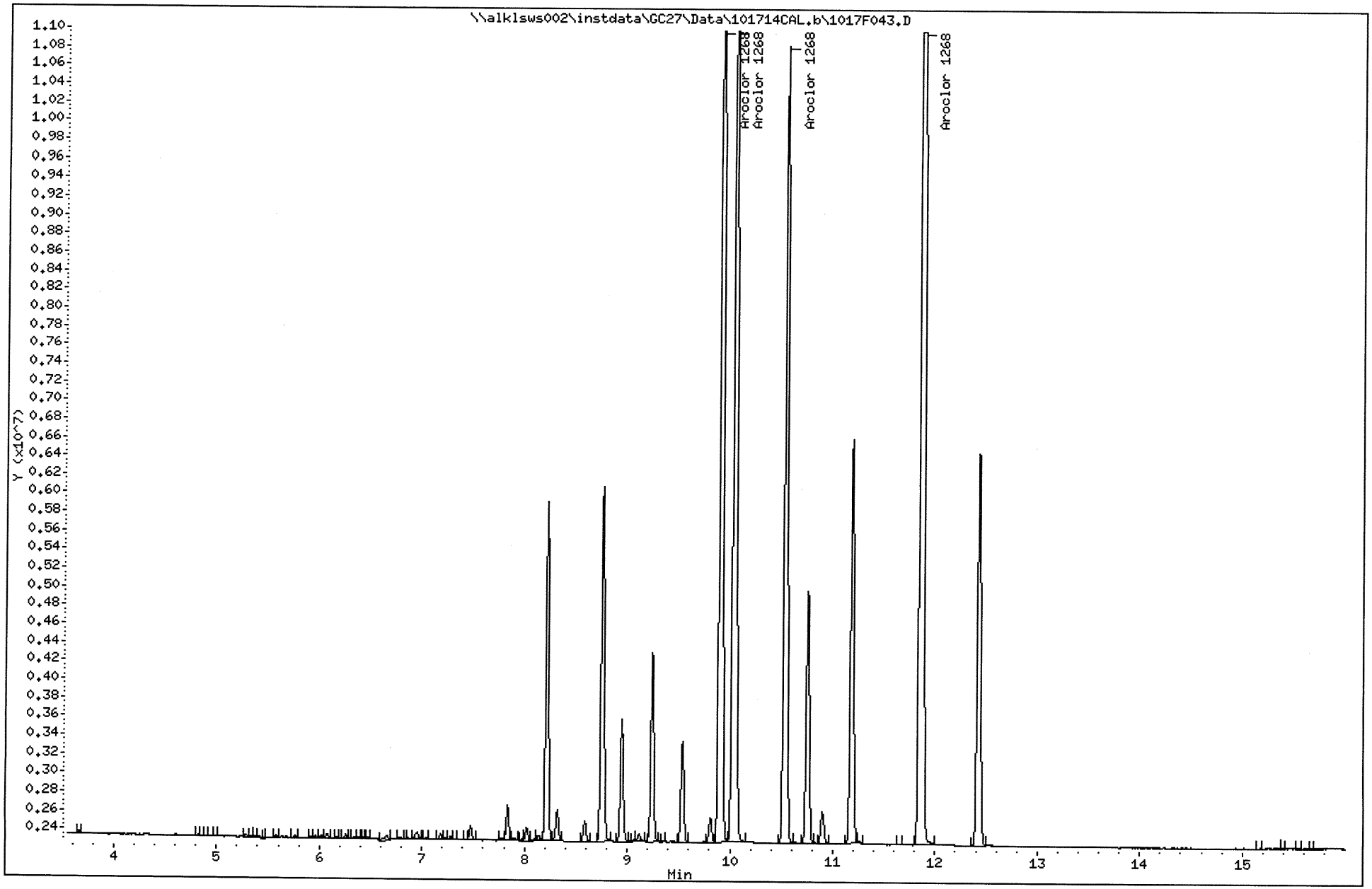
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



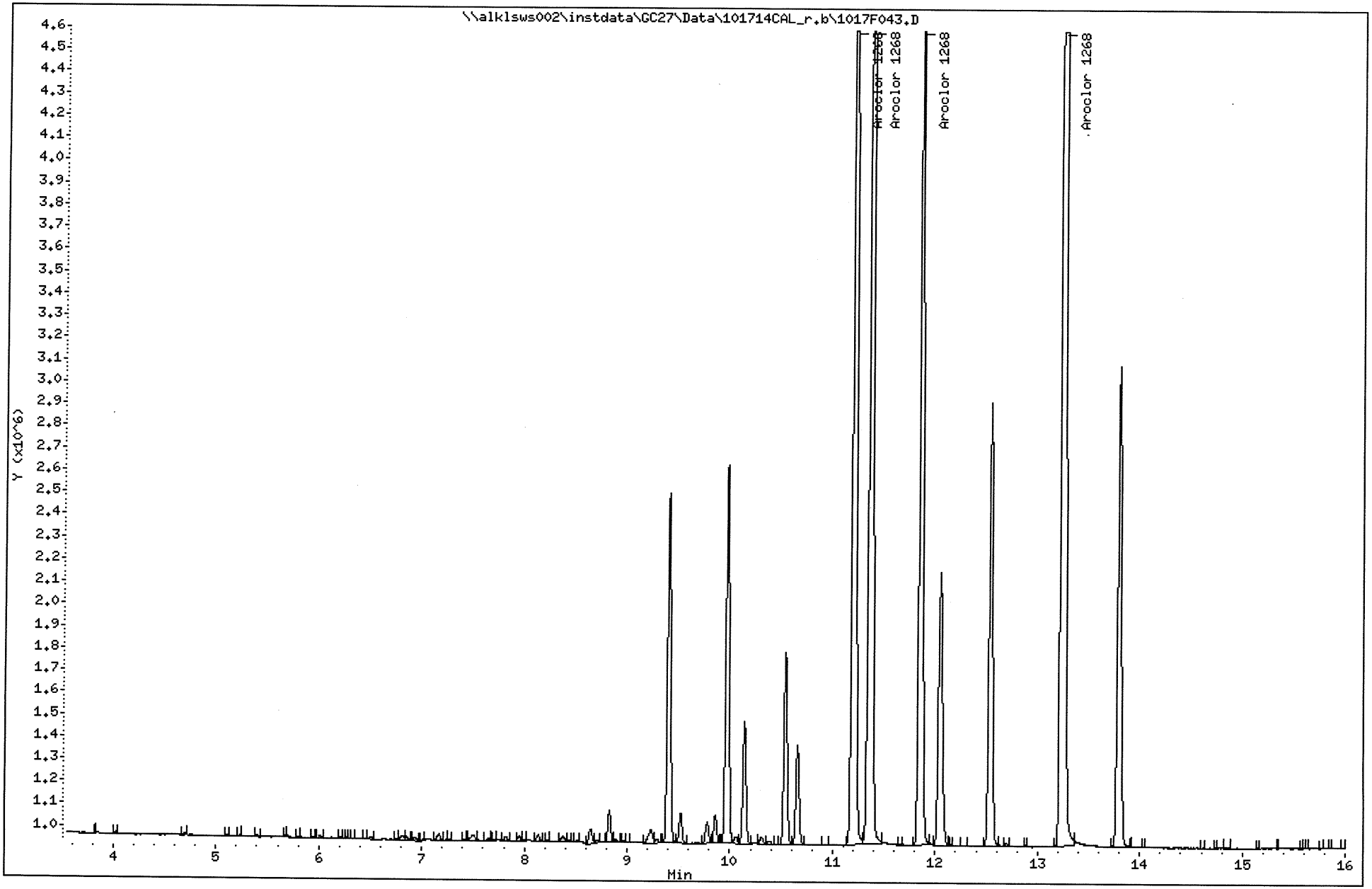
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

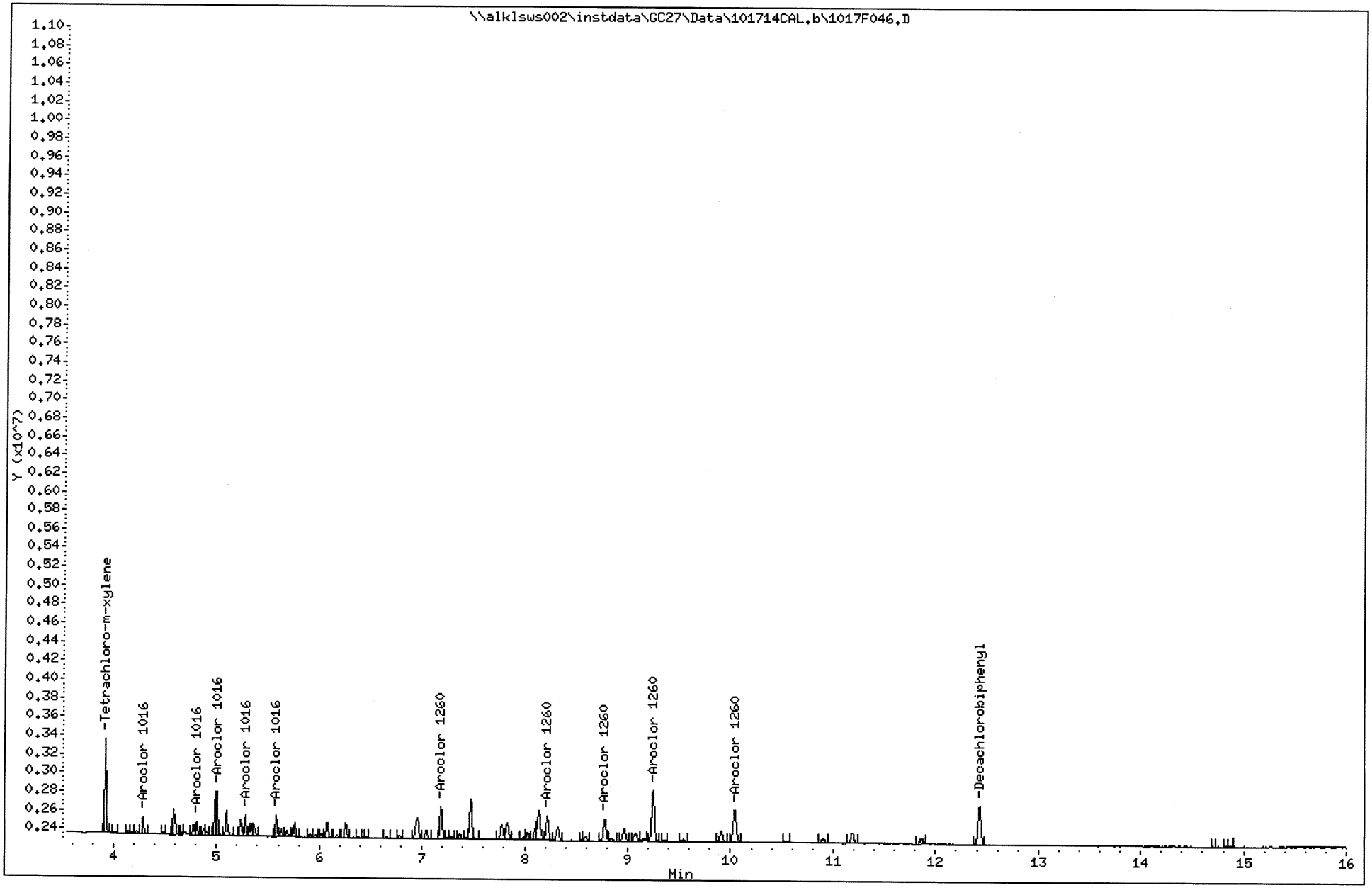
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

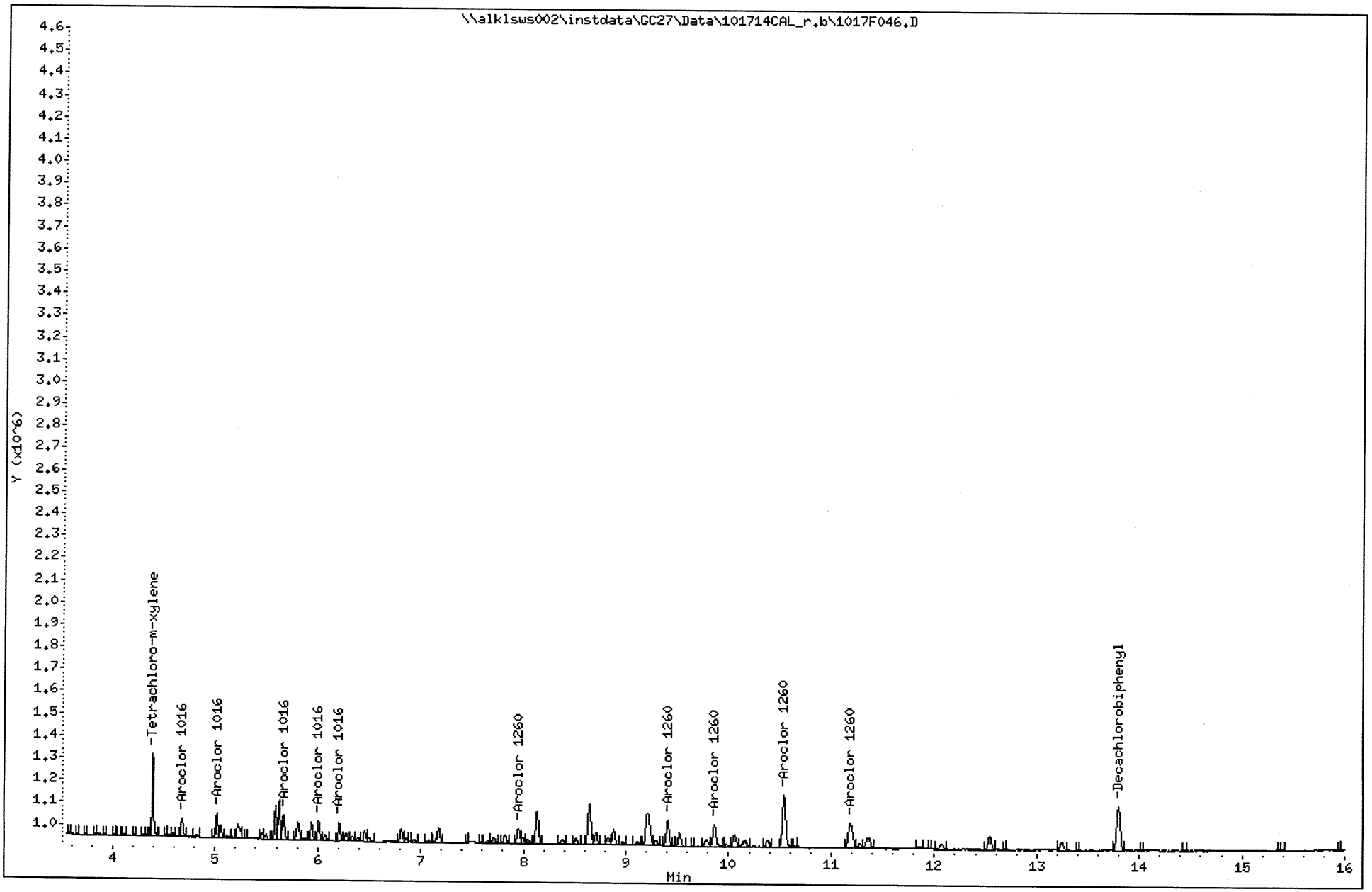


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

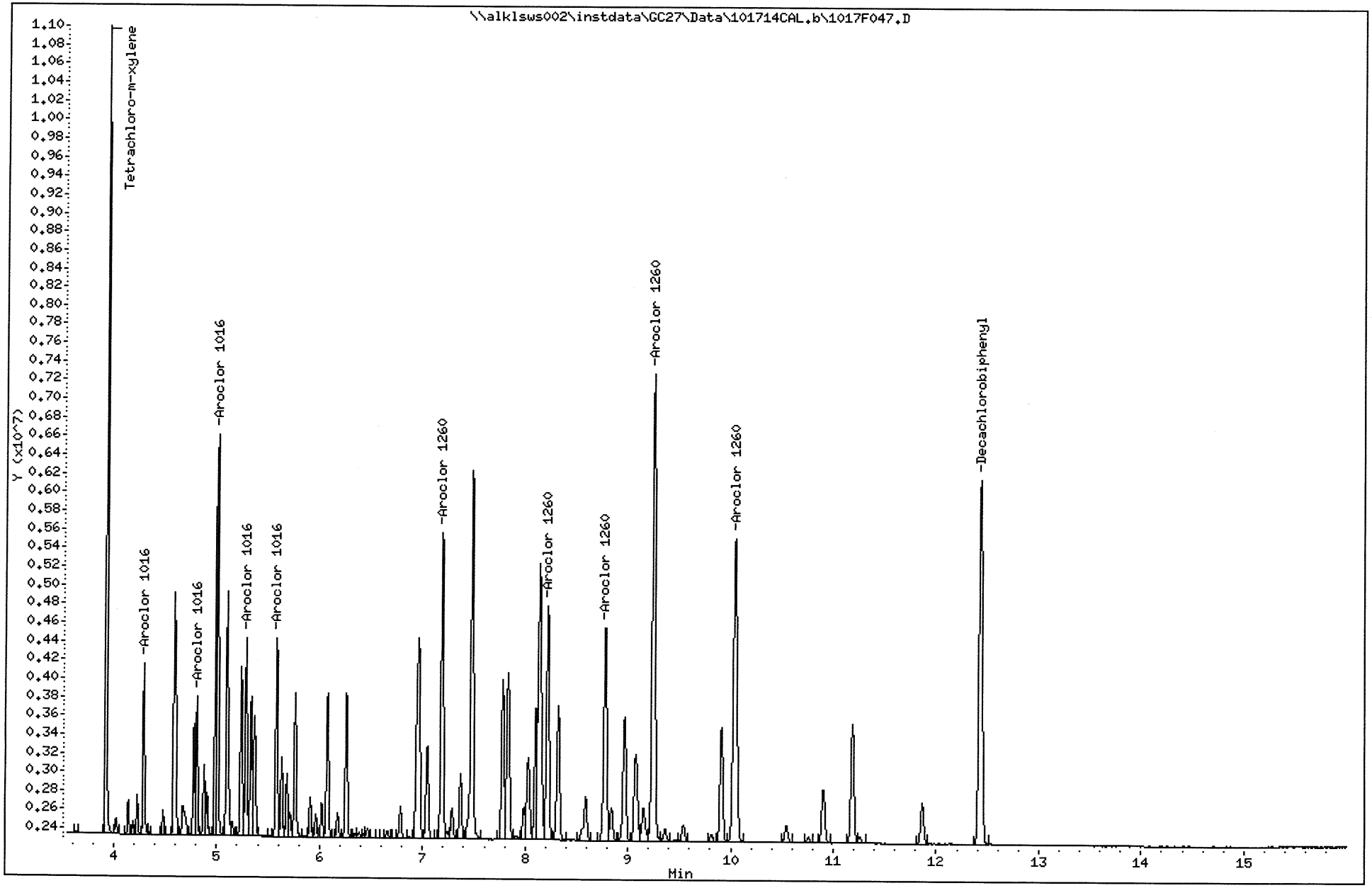
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



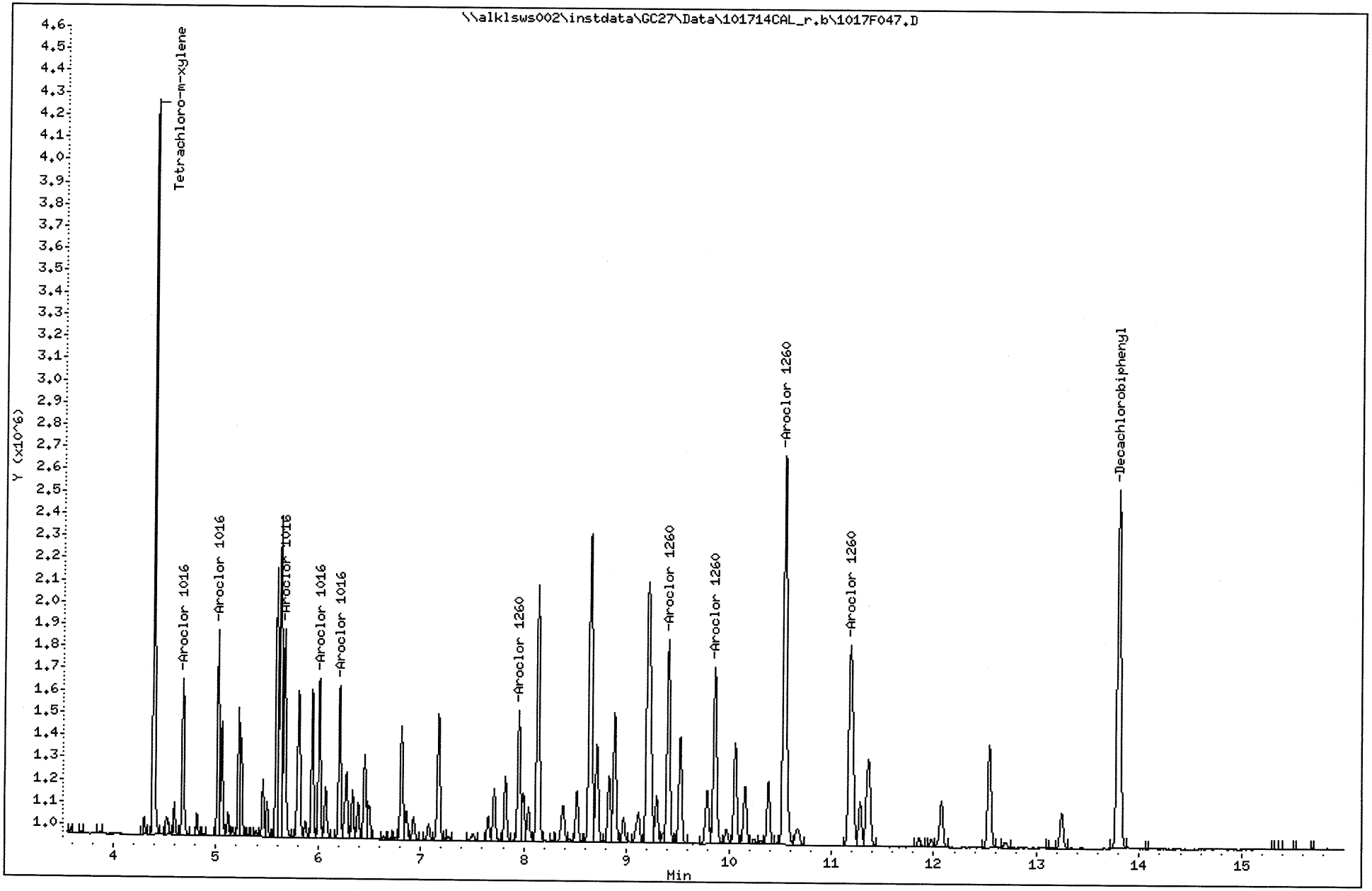
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

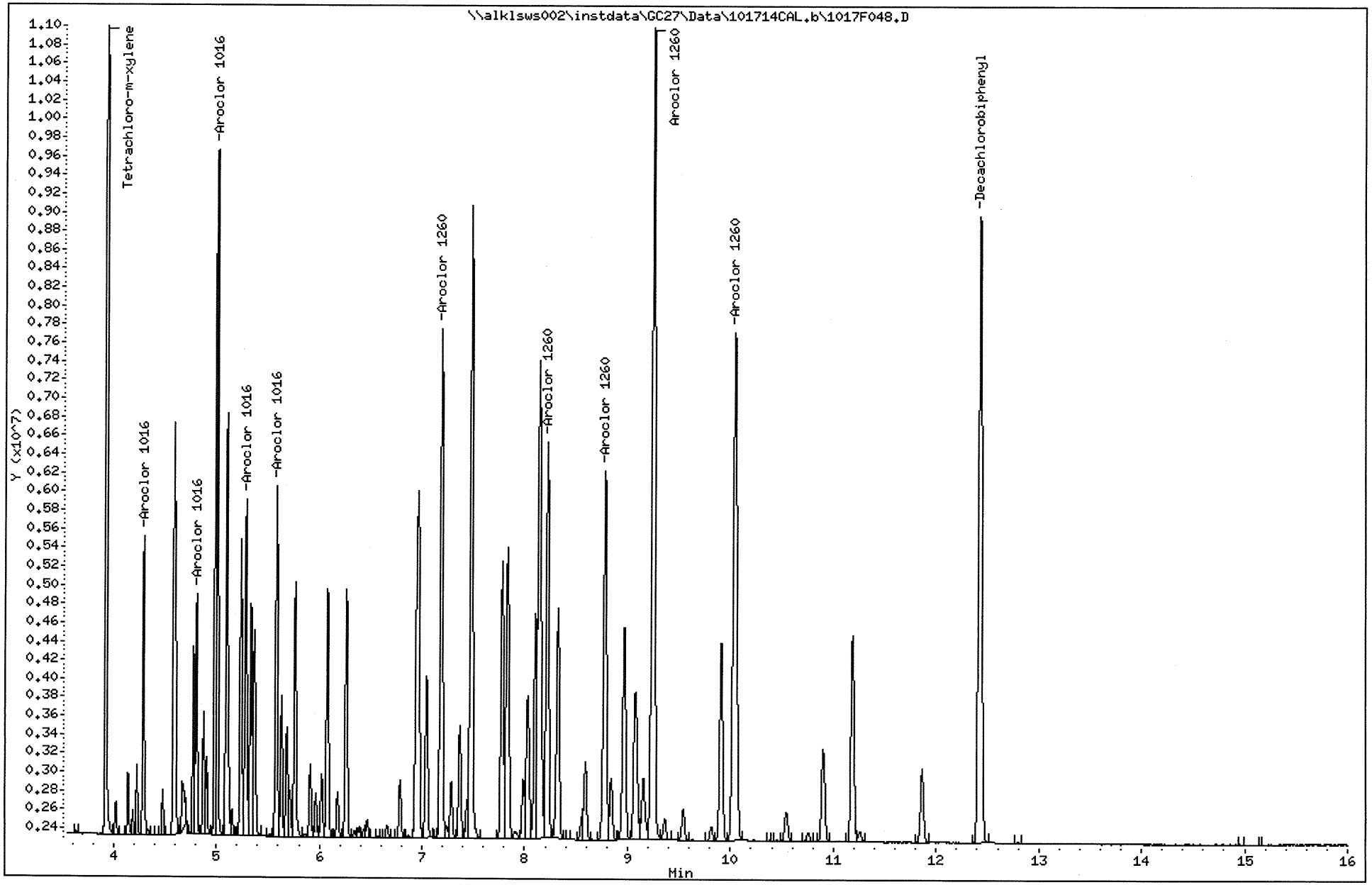
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



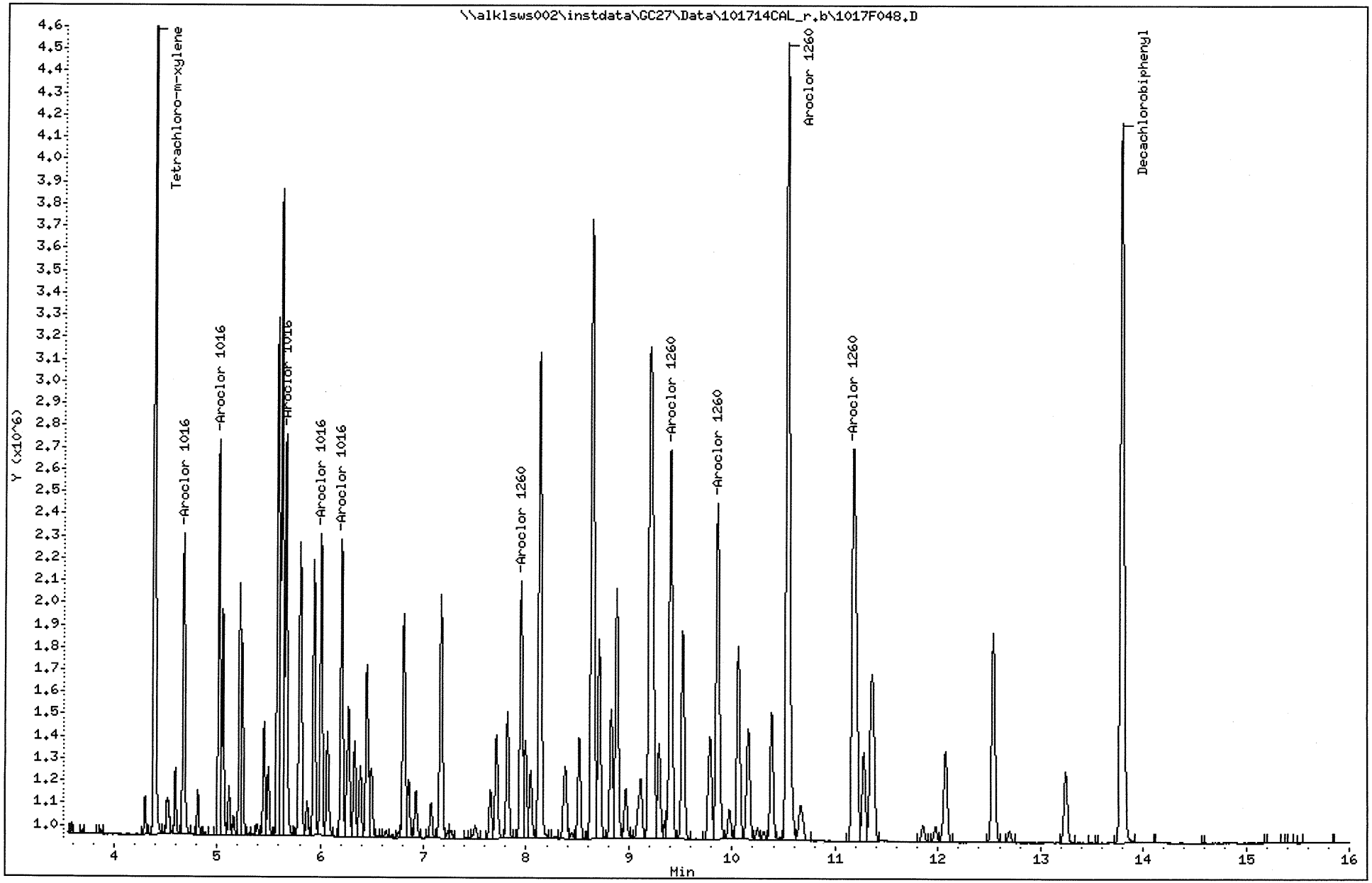
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

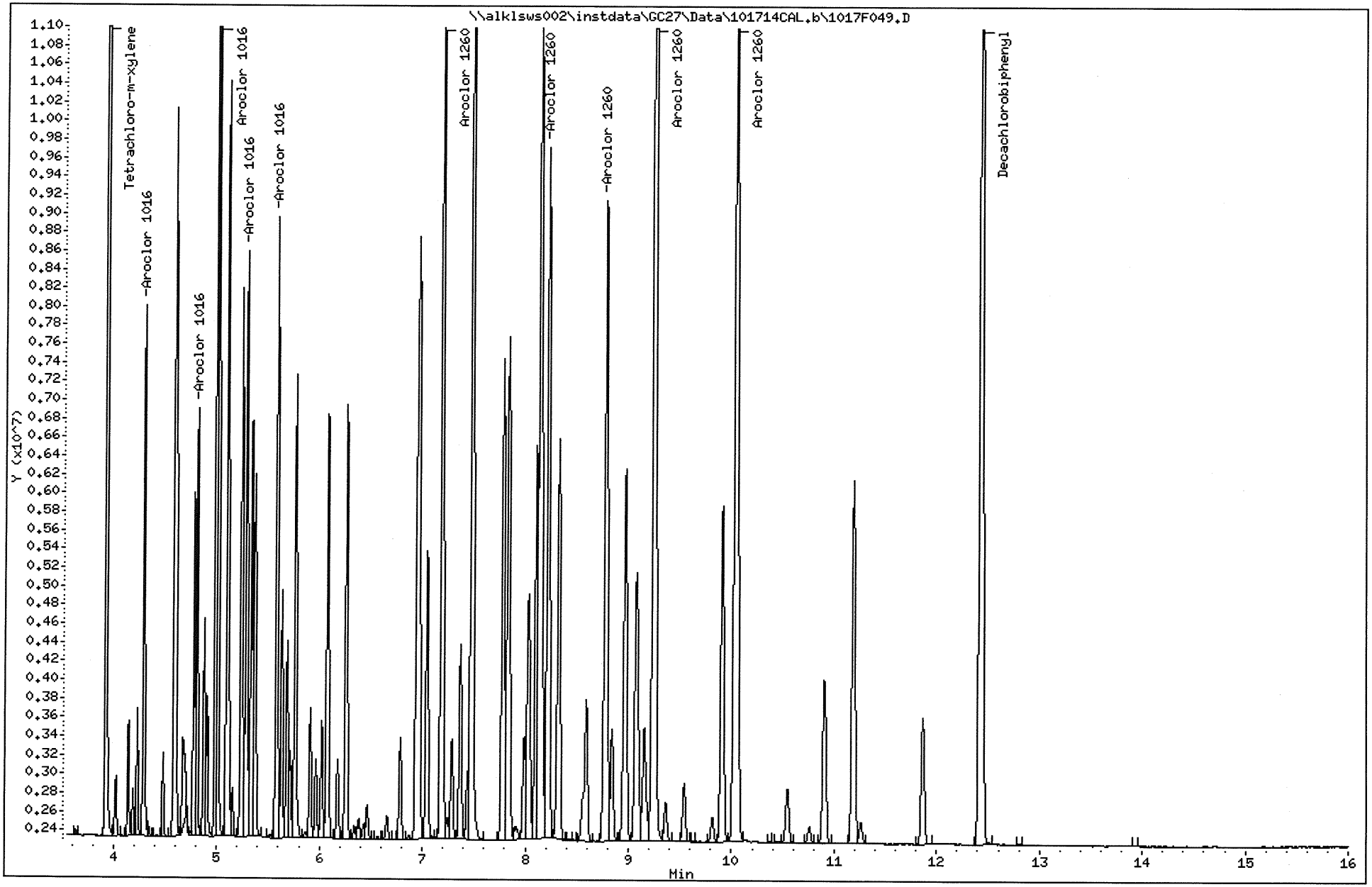
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



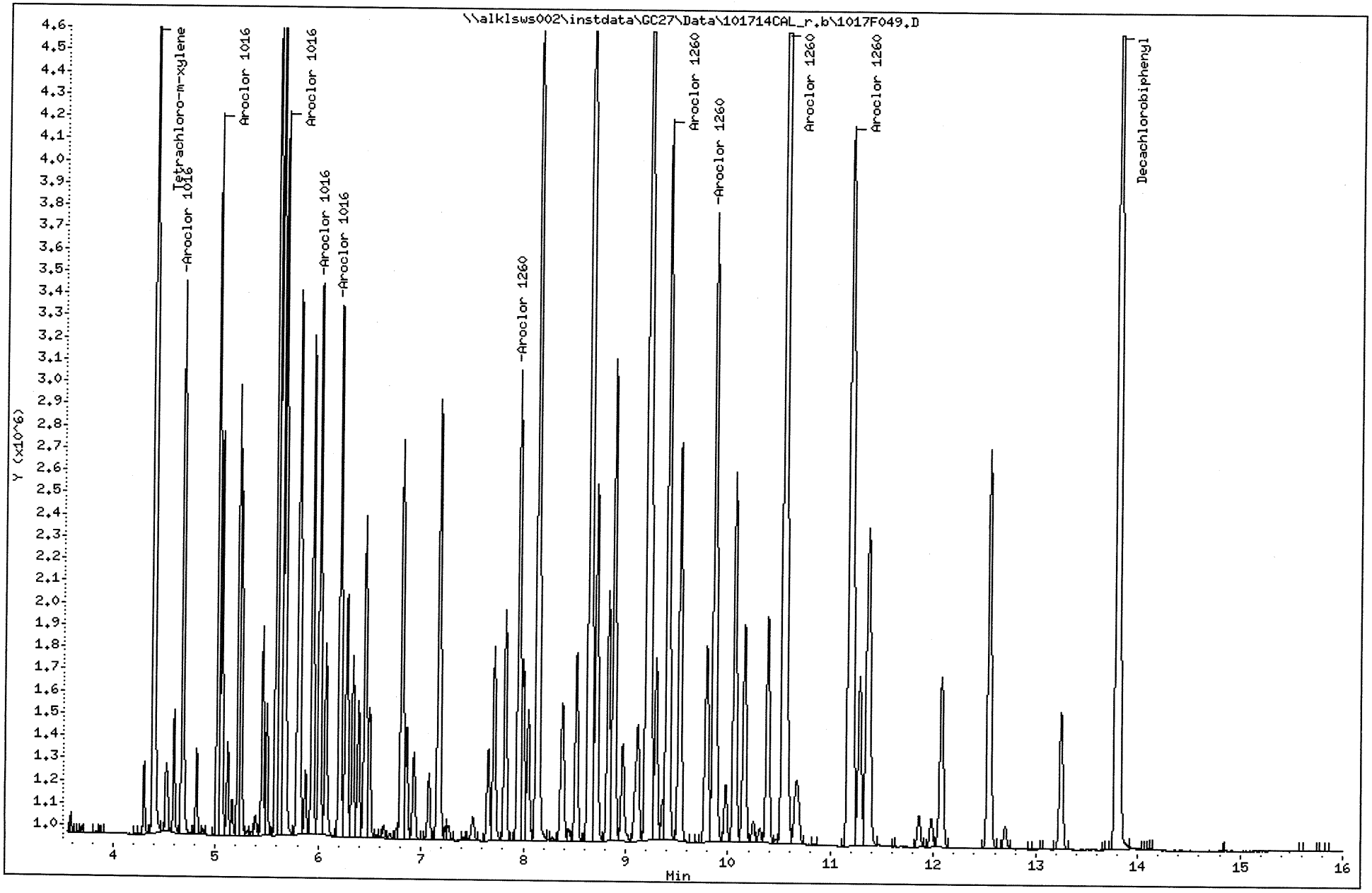
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

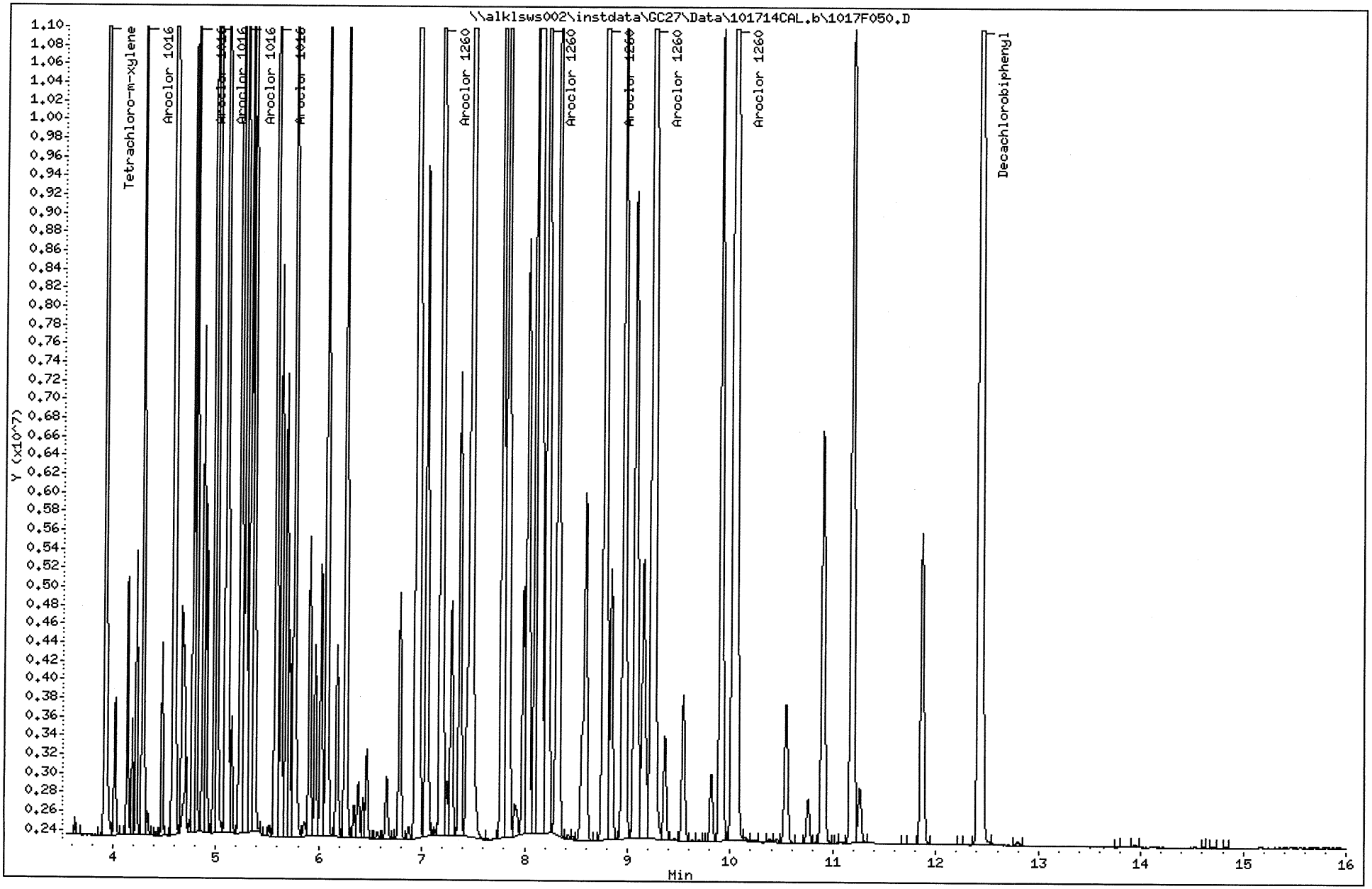
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

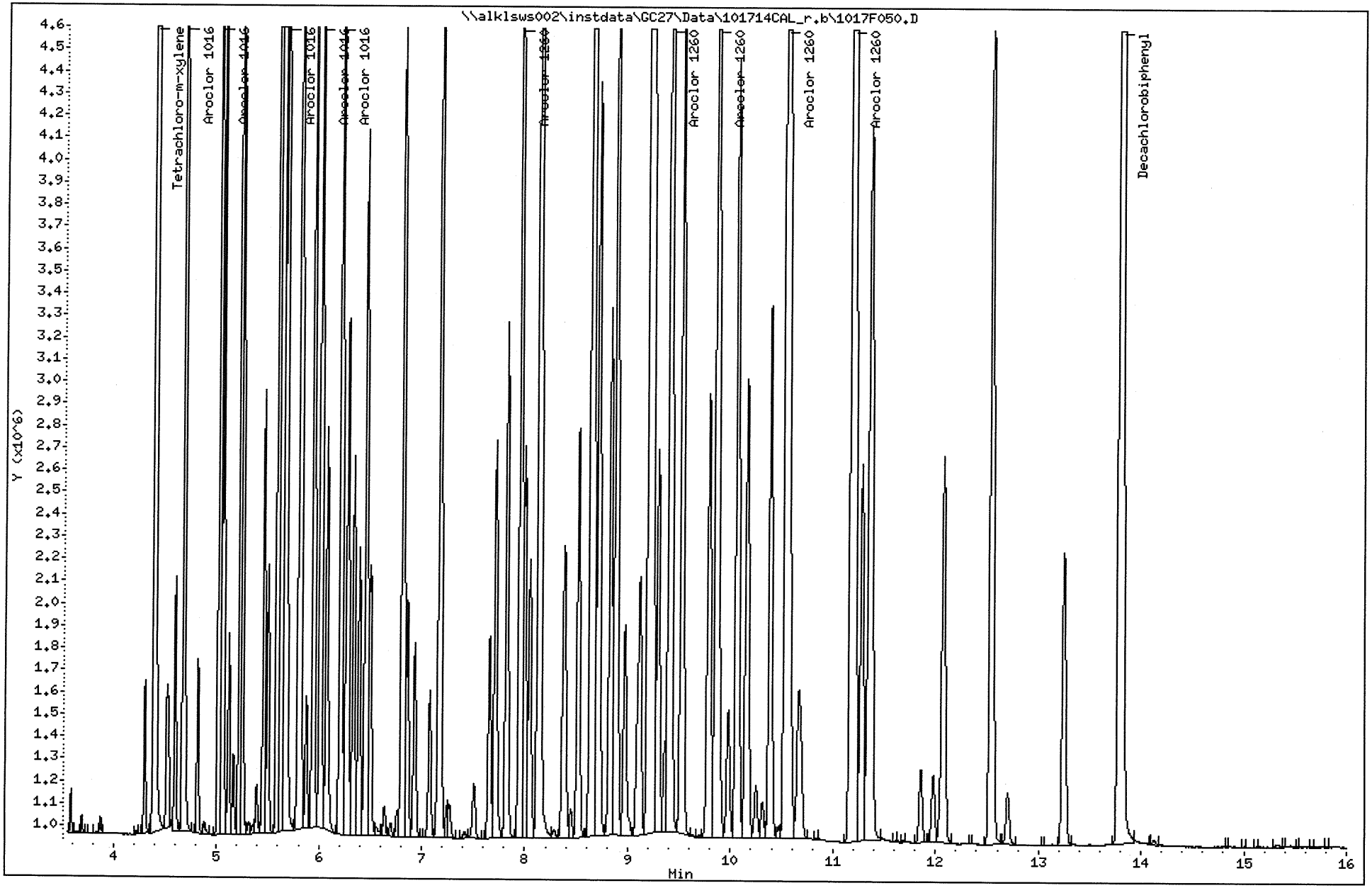


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

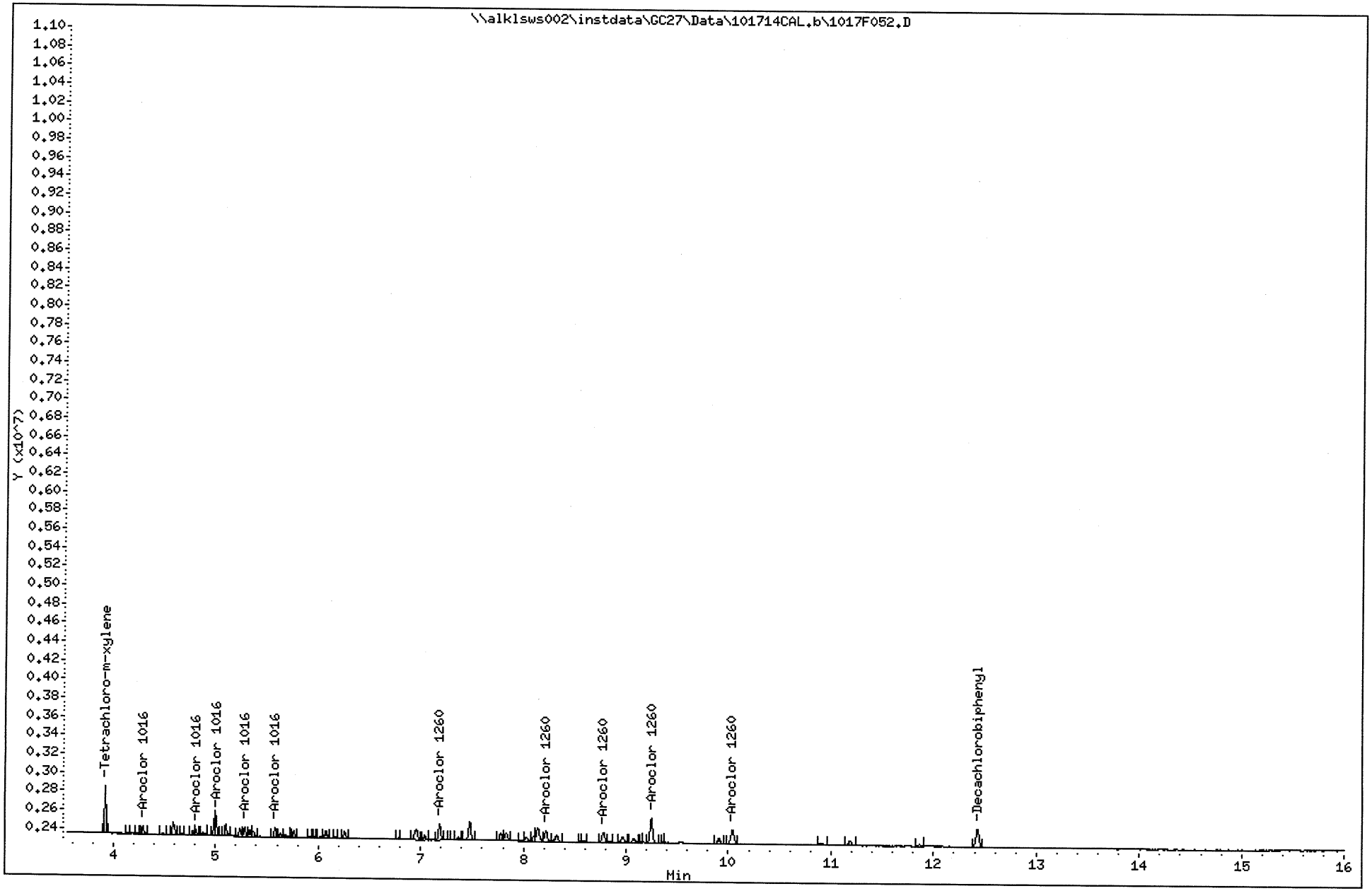
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



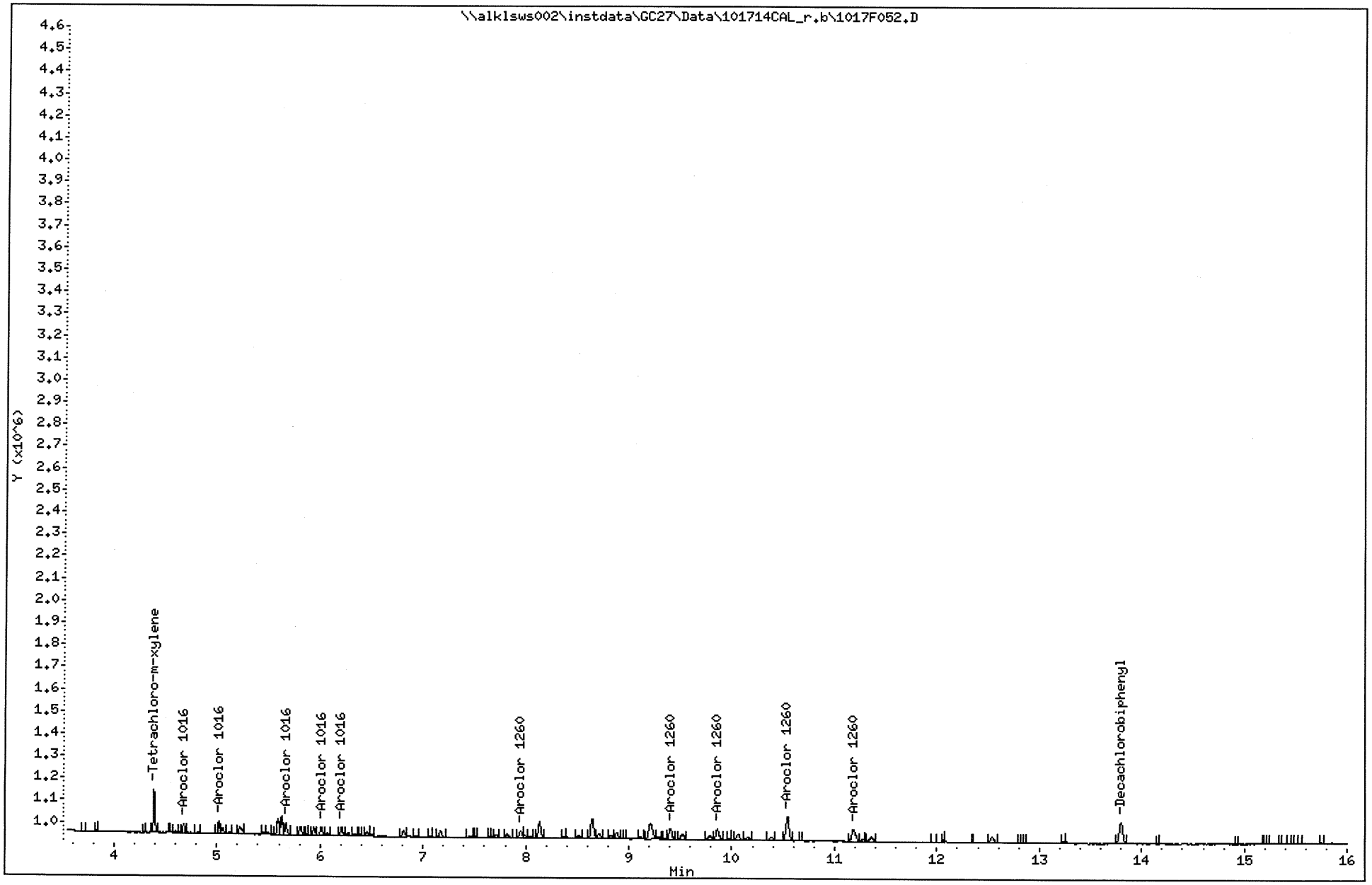
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

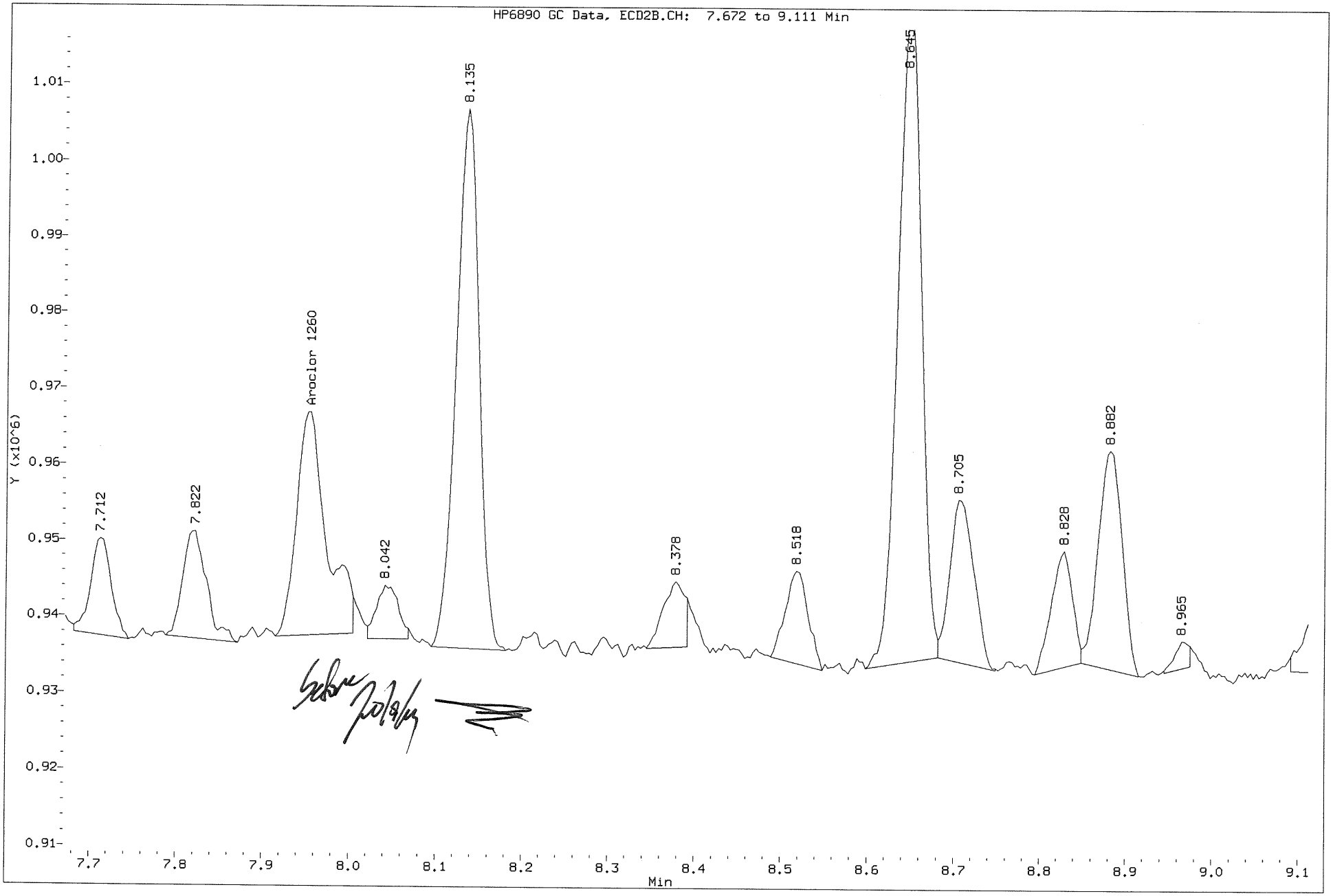
Operator: JHSmith

Column phase: DB-XLB

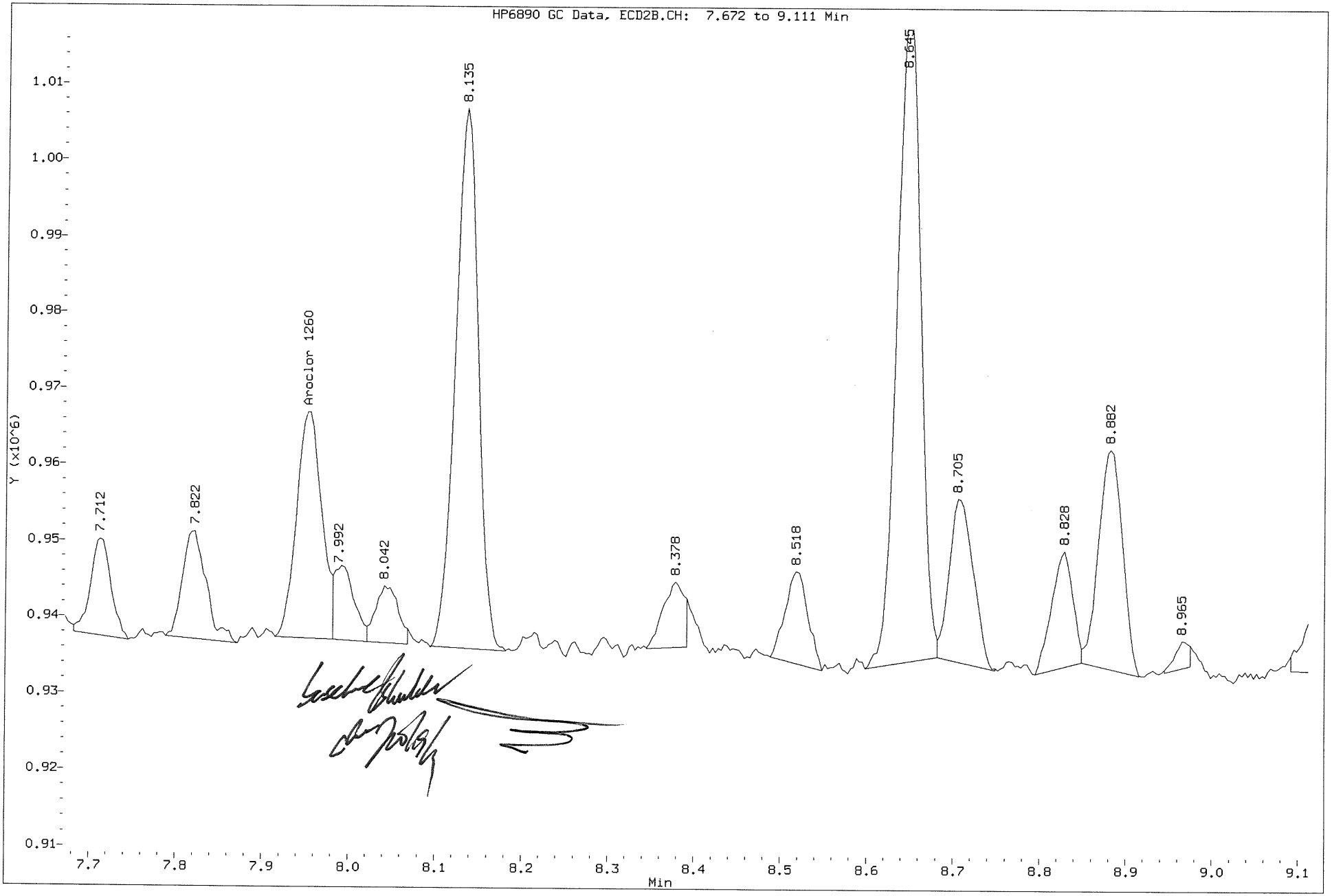
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

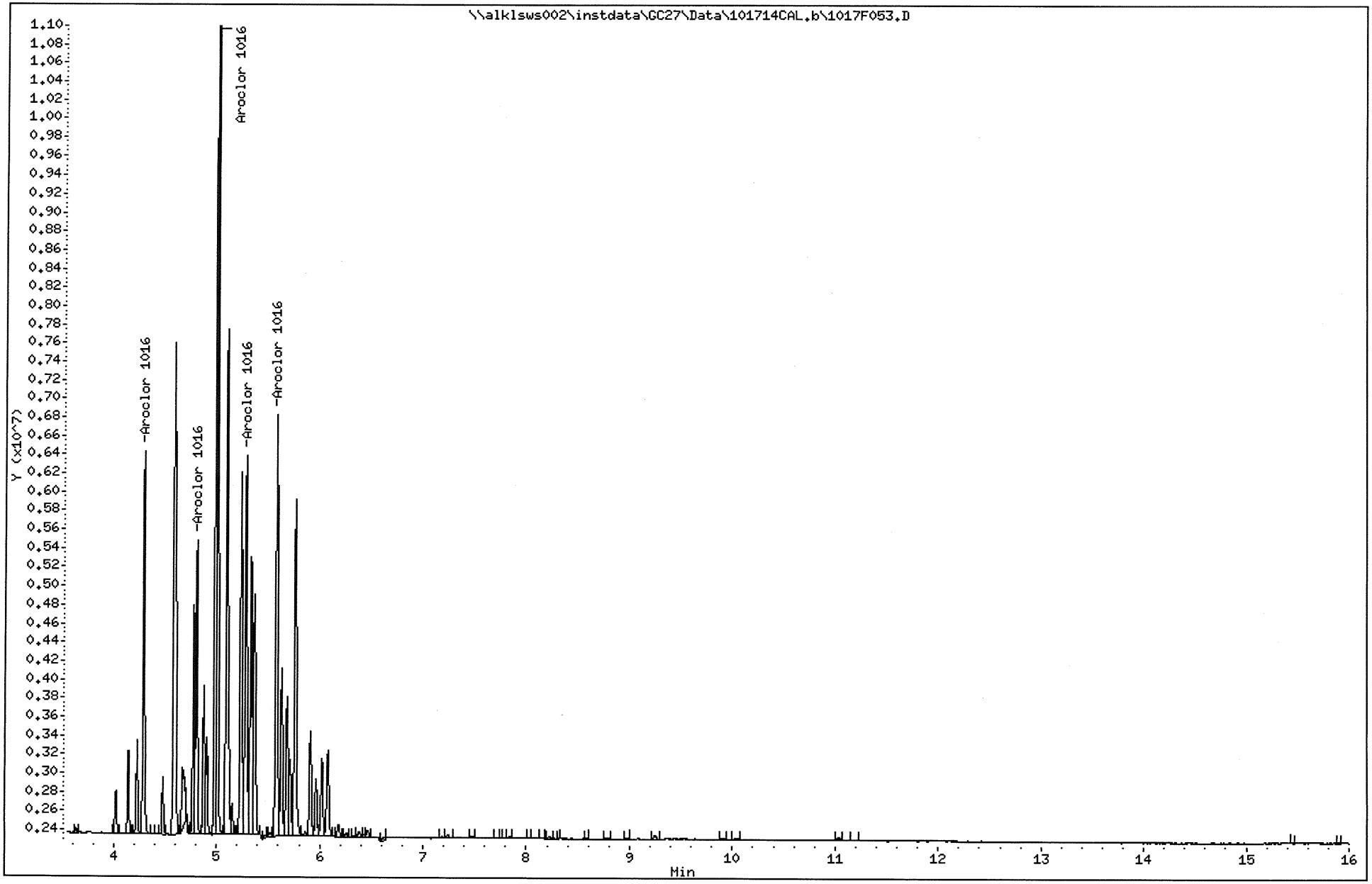
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



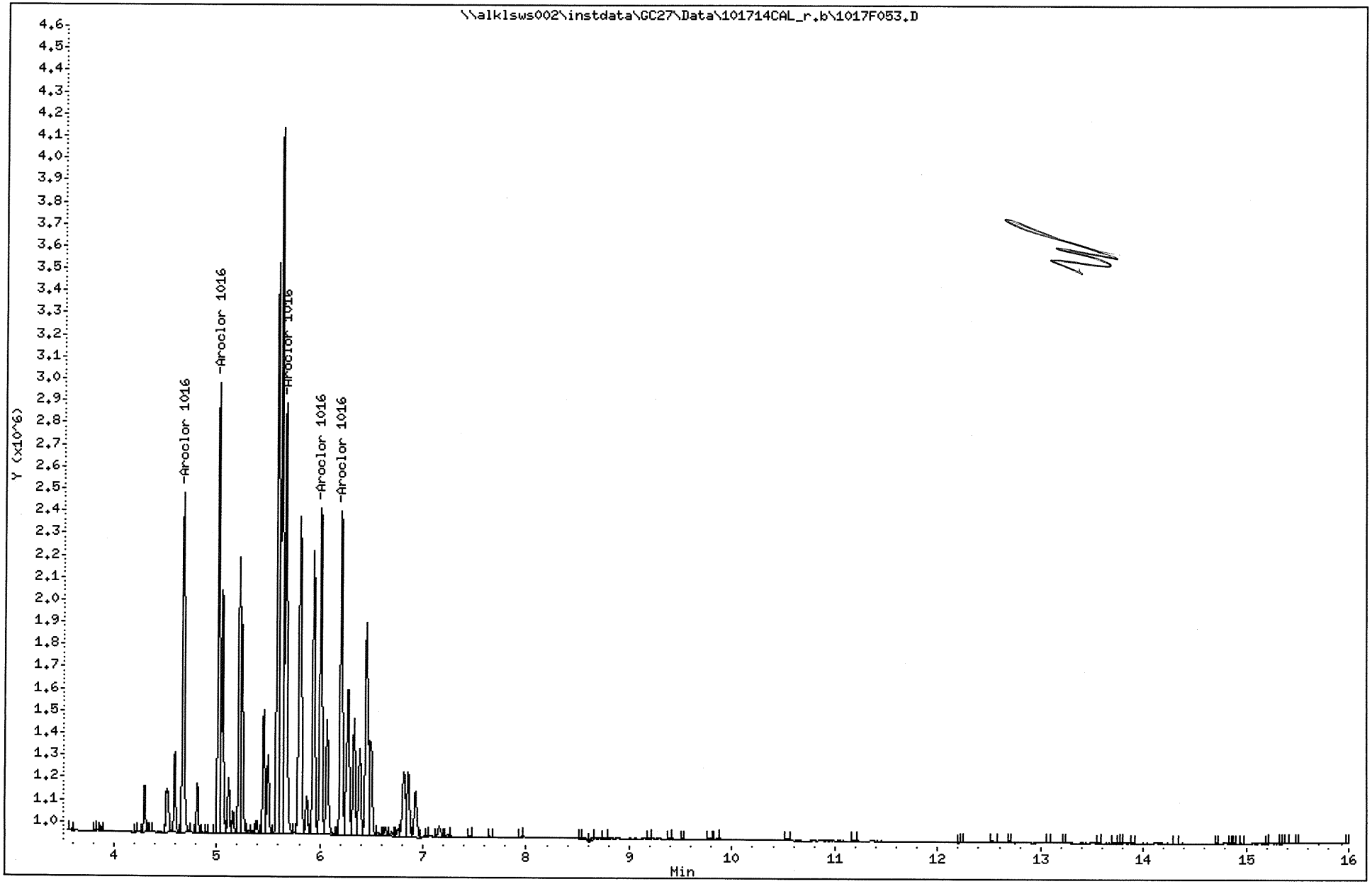
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

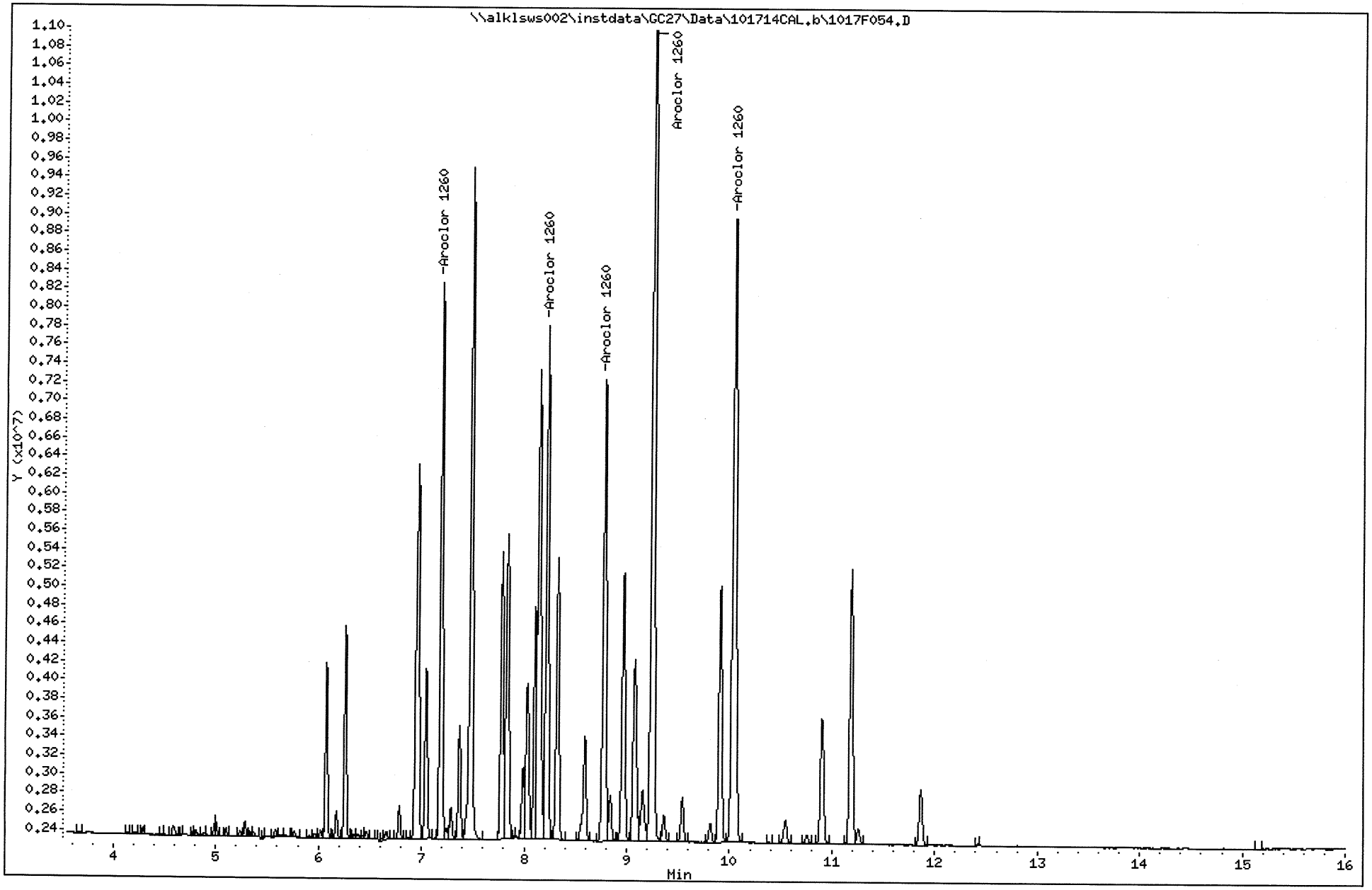
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



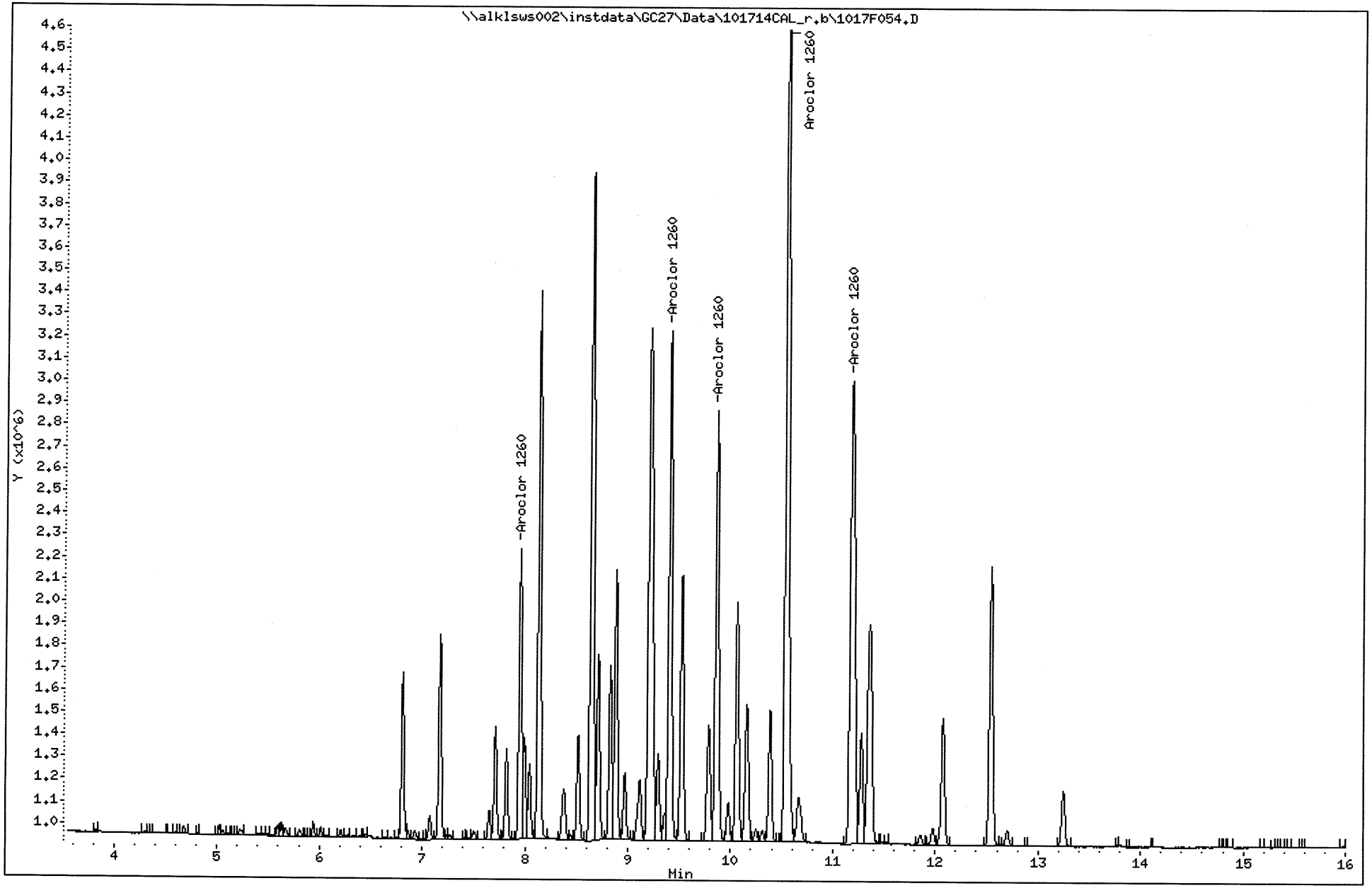
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Preparation Information

Group ID:	KWG1509174	**Prep Method:**	EPA 3541	**Prep Date:**	09/24/15 16:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1510324-001	UBPE-3	8082A PCB LL	SOIL	40.215g	4ml	
K1510448-004	ISBWaste-2-A	8082A PCB LL	SOIL	40.157g	4ml	
K1510448-005	ISBWaste-2-B	8082A PCB LL	SOIL	40.106g	4ml	
K1510448-006	ISBWaste-2-C	8082A PCB LL	SOIL	40.139g	4ml	
K1510507-001	BF-5	8082A PCB LL	SOIL	40.108g	4ml	
KWG1509174-1	Matrix Spike	8082A PCB LL	SOIL	40.145g	4ml	
KWG1509174-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.138g	4ml	
KWG1509174-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1509174-4	Method Blank	8082A PCB LL	SOIL	40.215g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1509174-1	K1510507-001	
KWG1509174-2	K1510507-001	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1510324-001	1469492					MOttosso
K1510448-004	1469494					MOttosso
K1510448-005	1469495					MOttosso
K1510448-006	1469496					MOttosso
K1510507-001	1469493					MOttosso
KWG1509174-1	1469497					MOttosso
KWG1509174-2	1469498					MOttosso
KWG1509174-3	1469499					MOttosso
KWG1509174-4	1469500					MOttosso

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Date: Storage: Goody A1-9

Chain of Custody

Relinquished By: Date: 9-24-15 Extracts Examined

Received By: mr Date: 09/30/15 0758 Yes No

Preparation Information

Group ID:	KWG1509174	**Prep Method:**	EPA 3541	**Prep Date:**	09/24/15 16:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1510324-001	UBPE-3	8082A PCB LL	SOIL	40.215g	4ml	
K1510448-004	ISBWaste-2-A	8082A PCB LL	SOIL	40.157g	4ml	
K1510448-005	ISBWaste-2-B	8082A PCB LL	SOIL	40.106g	4ml	
K1510448-006	ISBWaste-2-C	8082A PCB LL	SOIL	40.139g	4ml	
K1510507-001	BF-5	8082A PCB LL	SOIL	40.108g	4ml	
KWG1509174-1	Matrix Spike	8082A PCB LL	SOIL	40.145g	4ml	
KWG1509174-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.138g	4ml	
KWG1509174-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1509174-4	Method Blank	8082A PCB LL	SOIL	40.215g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1509174-1	K1510507-001	
KWG1509174-2	K1510507-001	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1510324-001	1469492					MOttosso
K1510448-004	1469494					MOttosso
K1510448-005	1469495					MOttosso
K1510448-006	1469496					MOttosso
K1510507-001	1469493					MOttosso
KWG1509174-1	1469497					MOttosso
KWG1509174-2	1469498					MOttosso
KWG1509174-3	1469499					MOttosso
KWG1509174-4	1469500					MOttosso

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Elissa Bruno Date: 9-30-15 Storage:

Chain of Custody

Relinquished By: Date: 9-29-15 Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID: KWG1509174 **Prep Method:** EPA 3541 **Prep Date:** 9/24/15
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. mL	Final Vol. mL	Surr. Added µl	Spike Added µl
1	K1510324-001	UBPE-3	.01	✓	8082A PCB LL	SOIL	40.215	NA	10	4	100	—
2	K1510448-004	ISBWaste-2-A	.01	✓	8082A PCB LL	SOIL	40.157		10	4		—
3	K1510448-005	ISBWaste-2-B	.01	✓	8082A PCB LL	SOIL	40.106		10	4		—
4	K1510448-006	ISBWaste-2-C	.01	✓	8082A PCB LL	SOIL	40.039		10	4		—
5	K1510507-001	BF-5 R	.02	✓	8082A PCB LL	SOIL	40.108		10	4		—
6	KWG1509174-1	Matrix Spike R K1510507-001	.02	✓	8082A PCB LL	SOIL	40.145		10	4		100
7	KWG1509174-2	Duplicate Matrix Spike R K1510507-001	.02	✓	8082A PCB LL	SOIL	40.138		10	4		
8	KWG1509174-3	Lab Control Sample	—	—	8082A PCB LL	SOIL	20.000		10	4		
9	KWG1509174-4	Method Blank	—	—	8082A PCB LL	SOIL	40.215		10	4		—

Comments: R - roots prepent# 245619

Surrogate ID: PCB 6-76J, 2 ppm, XP 3/17/16, 200 µl, EPP 10D
Spike ID: PCB 6-76H, 40 µg/mL, XP 3/10/16, 100 µl, EPP 2B
Witness: MOttossen 9/24/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1510329, 10507, 10948 **Work Group # Pest:** —
PCB: KWG1509174

Weighed (time/date/initial): 1430 9/24/15 CW Balance ID: *K-Bal-* 3 Calibration Verified ☑

Storage Location (if not extracted same day): —

DCM Lot # DN111 Sulfate Lot # K259001 Matrix Lot # 061614 Glass Wool Lot # 3071900L

Soxtherm Start (time/date/initial): 1630 9/24/15 LL

Soxtherm Stop (time/date/initial): 830 9/25/15 LM

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 9:45 9-28-15 [illegible] N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 10:30 9-28-15 [illegible] Hexane Lot# 108975
S-Evap (time/date/initial): — S-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 10:15 9-28-15 [illegible] N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): 3:30 9-28-15 [illegible] Florisil Lot # VH09F (overnight)
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 2:30 9-28-15 Acid Lot # 54344

Other Clean-up: 3660B 9-28-15 [illegible] ☑ all samples ☐ some samples: EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Goofy A1-9

Archived Extract Storage: JTT

Additional Comments:

Bench Sheet Review Check List

- ☑ Hold times met (if no, reason:)
- ☑ Prep date, time, method, department, product code correct in stealth
- ☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☑ Weights/Volumes and units correct on raw and final bench sheets
- ☑ Sample IDs have been checked - bottle numbers appended if required
- ☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
- ☑ Extract storage recorded
- ☑ Additional prep sheet completely filled out (NA or line out blanks)
- ☑ All clean-ups have been noted on additional prep sheet
- ☑ Signed service request with Form V, if applicable, has been attached

POST EXCAVATION UPPER BEACH

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

September 17, 2015

Analytical Report for Service Request No: K1509364

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Riverbank SCM

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory August 26, 2015
For your reference, these analyses have been assigned our service request number **K1509364.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

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ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1509364
Project:	Evraz Riverbank SCM	**Date Received:**	08/26/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 08/26/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

No other anomalies associated with the analysis of this sample were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

CHAIN OF CUSTODY FORM

Project: Evraz Riverbank SCM

Samplers: JSUND

Integral Contact: Glenn Esler
Phone 503 943 3617

Ship to: Lab Name ALS
Address 1317 S 13th Ave
Kelso WA
98626
Contact Greg Sulcta
Phone 360 501 3376

integral consulting inc.

K1509364

ANALYSES REQUESTED

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors								Extra Container	Archive	Comments
VBPE-1	7000	8/25/15	1200	SL											

8/25/15

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Shipped by: ALS Courier **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) **Date/Time:** 8/26/15 700 **Received by:** (signature) **Date/Time:** 8/26/15 0940

Relinquished by: (signature) **Date/Time:** **Received by:** (signature) **Date/Time:**

Special Instructions: analysis a
Follow instructions provided in Project specific QAPP

PC Greg

Cooler Receipt and Preservation Form

Client / Project: Integral Service Request *K15* 09364

Received: 8/26/15 Opened: 8/26/15 By: KD Unloaded: 8/26/15 By: KD

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, Front 1, Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-.5	-.3	.6	.8	+.2	358			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page _____ ***of*** _____

Total Solids

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Collected:**	08/25/15
Sample Matrix:	Soil	**Date Received:**	08/26/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
UBPE-1	K1509364-001	**87.2**	-	-	1	08/31/15 11:40	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project	Evraz Riverbank SCM	**Date Collected:**	08/25/15
Sample Matrix:	Soil	**Date Received:**	08/26/15
		Date Analyzed:	08/31/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	UBPE-1	**Units:**	Percent
Lab Code:	K1509364-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1509364-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	87.2	86.0	86.6	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
UBPE-1	K1509364-001	08/25/2015	08/26/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Collected:**	08/25/2015
Sample Matrix:	Soil	**Date Received:**	08/26/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	UBPE-1	**Units:**	ug/Kg
Lab Code:	K1509364-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1221	ND	U	12	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1232	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1242	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1248	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1254	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1260	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1262	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	
Aroclor 1268	ND	U	5.8	2.1	1	09/09/15	09/11/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	43-148	09/11/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1508618-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1221	ND	U	10	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1232	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1242	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1248	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1254	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1260	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1262	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1268	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	43-148	09/12/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Service Request: K1509364

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
UBPE-1	K1509364-001	75
Batch QC	K1509528-006	83
Method Blank	KWG1508618-4	93
Batch QCMS	KWG1508618-1	98
Batch QCDMS	KWG1508618-2	90
Lab Control Sample	KWG1508618-3	88

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/11/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1509528-006	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

		Batch QCMS KWG1508618-1 Matrix Spike			Batch QCDMS KWG1508618-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	106	134	79	103	134	77	23-145	2	40
Aroclor 1260	39	153	134	85	145	134	79	24-148	6	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1508618

	Lab Control Sample KWG1508618-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	130	200	65	42-122
Aroclor 1260	171	200	85	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	01:09

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-4	**File ID:**	J:\GC27\DATA\091115.B\0911F022.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
UBPE-1	K1509364-001	J:\GC27\DATA\091115.B\0911F006.D	09/11/15	18:57
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
Lab Control Sample	KWG1508618-3	J:\GC27\DATA\091115.B\0911F021.D	09/12/15	00:46

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509364
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	00:46

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-3	**File ID:**	J:\GC27\DATA\091115.B\0911F021.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
UBPE-1	K1509364-001	J:\GC27\DATA\091115.B\0911F006.D	09/11/15	18:57
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
Method Blank	KWG1508618-4	J:\GC27\DATA\091115.B\0911F022.D	09/12/15	01:09

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	164000	4	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3510	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8810	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	4960	4250	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4430	-14	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	440	9850	8680	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7790	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8010	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86800	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	1840	1820	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	2430	2400	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2670	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	470	2200	2050	-6	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	2000	-7	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	490	2210	2180	-1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3970	5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	8630	9030	5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5940	6	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	58	158000	183000	16	NA	± 20	AverageRF
Aroclor 1016 {1}	500	550	3590	3970	11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	530	3000	3180	6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	510	9890	10000	1	NA	± 100	AverageRF
Aroclor 1016 {4}	500	500	4960	4980	0	NA	± 100	AverageRF
Aroclor 1016 {5}	500	490	5180	5090	-2	NA	± 100	AverageRF
Aroclor 1016	500	520	NA	NA	NA	3	± 20	NA
Aroclor 1260 {1}	500	510	9850	9960	1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8430	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	8230	8480	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19400	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86900	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2190	-10	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2510	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1890	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1840	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	510	2210	2260	2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	540	3780	4080	8	NA	± 100	AverageRF
Aroclor 1260 {3}	500	680	3610	4920	36	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5970	7	NA	± 100	AverageRF
Aroclor 1260	500	560	NA	NA	NA	12	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	158000	170000	8	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3740	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2930	-2	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8620	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4470	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4680	-10	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8080	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8240	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	18800	19200	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14900	5	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1509364
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	87600	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	1840	1800	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	2430	2420	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	3000	2710	-10	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	2200	2020	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	1970	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	490	2210	2140	-3	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3920	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5890	5	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509364
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1508799
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0911F003.D	Continuing Calibration Verification	KWG1508799-1	9/11/2015	17:47		9/11/2015	17:47
0911F004.D	Instrument Blank	KWG1508799-2	9/11/2015	18:10		9/11/2015	18:10
0911F005.D	ZZZZZZ	ZZZZZZ	9/11/2015	18:34		9/11/2015	18:34
0911F006.D	UBPE-1	K1509364-001	9/11/2015	18:57		9/11/2015	18:57
0911F007.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:21		9/11/2015	19:21
0911F008.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:44		9/11/2015	19:44
0911F009.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:07		9/11/2015	20:07
0911F010.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:31		9/11/2015	20:31
0911F011.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:54		9/11/2015	20:54
0911F012.D	Batch QC	K1509528-006	9/11/2015	21:17		9/11/2015	21:17
0911F013.D	Batch QCMS	KWG1508618-1	9/11/2015	21:40		9/11/2015	21:40
0911F014.D	Batch QCDMS	KWG1508618-2	9/11/2015	22:04		9/11/2015	22:04
0911F015.D	Continuing Calibration Verification	KWG1508799-3	9/11/2015	22:27		9/11/2015	22:27
0911F016.D	Instrument Blank	KWG1508799-4	9/11/2015	22:50		9/11/2015	22:50
0911F017.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:13		9/11/2015	23:13
0911F018.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:37		9/11/2015	23:37
0911F019.D	ZZZZZZ	ZZZZZZ	9/12/2015	00:00		9/12/2015	00:00
0911F020.D	ZZZZZZ	ZZZZZZ	9/12/2015	00:23		9/12/2015	00:23
0911F021.D	Lab Control Sample	KWG1508618-3	9/12/2015	00:46		9/12/2015	00:46
0911F022.D	Method Blank	KWG1508618-4	9/12/2015	01:09		9/12/2015	01:09
0911F023.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:33		9/12/2015	01:33
0911F024.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:56		9/12/2015	01:56
0911F025.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:19		9/12/2015	02:19
0911F026.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:42		9/12/2015	02:42
0911F027.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:06		9/12/2015	03:06
0911F028.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:29		9/12/2015	03:29
0911F029.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:53		9/12/2015	03:53
0911F030.D	Continuing Calibration Verification	KWG1508799-5	9/12/2015	04:16		9/12/2015	04:16
0911F031.D	Instrument Blank	KWG1508799-6	9/12/2015	04:39		9/12/2015	04:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Service Request: K1509364
Date Extracted: 09/09/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1508618
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
UBPE-1	K1509364-001	08/25/15	08/26/15	40.148g	4ml	87.2	
Method Blank	KWG1508618-4	NA	NA	40.324g	4ml	NA	
Batch QC	K1509528-006	NA	NA	30.0244g	4ml	99.1	
Batch QCMS	KWG1508618-1	NA	NA	30.0686g	4ml	99.1	
Batch QCDMS	KWG1508618-2	NA	NA	30.1926g	4ml	99.1	
Lab Control Sample	KWG1508618-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1509364, KQ1509680, K1509390, K1509397, K1509439, K1509505, K1509512, K1509509, K1509526**	**Run #:**	**460184**
Test:	**TS**	**Balance ID:**	**K-Balance-21B**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1509364-001	1.28	13.70	13.22	11.9	87.2	
	K1509364-001DUP	1.29	12.09	11.69	10.4	86.0	1
	K1509390-001	1.34	14.83	15.84	14.5	97.8	
	K1509397-001	1.29	11.58	11.43	10.1	87.6	
	K1509439-001	1.30	9.70	8.49	7.19	74.1	
	K1509505-001	1.29	10.90	4.51	3.22	29.5	
	K1509512-001	1.2952	17.4892	1.3663	0.071	0.407	
	K1509512-002	1.3105	9.9941	1.6493	0.339	3.39	
	K1509512-003	1.2894	15.8658	1.8070	0.518	3.26	
	K1509509-001	1.30	11.44	4.13	2.83	24.7	
	K1509526-001	1.36	9.68	6.91	5.55	57.3	
	K1509526-002	1.37	10.99	6.35	4.98	45.3	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	8/31/2015	11:40	9/1/2015	08:25	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	1.00 100.00, 1.0001 99.9970	0.99 99.97, 0.9994 99.9963	8/31/2015	11:13	8/31/2015	11:39
Calibration2	K-Balance-16	1.00, 100.00 - 0.9999, 99.9977	1.00, 100.00 - 0.9997, 99.9975	9/1/2015	08:53	9/1/2015	08:59

Comments: BK/DJM Approved 9-1-15 L.J.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F006.D
Lab ID: K1509364-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 18:57
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TQ d

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F006.D
Lab ID: K1509364-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 18:57
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	Jcu ck
	Aroclor 1260	22.7	NA	20	Jcu Dcd

Primary Review: MRC 09/15/15

Secondary Review: [signature]

Printed: 09/15/2015 08:54:50
u:\Stealth Crystal rpt except2 rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D			**Vial:**	4
Acqu Date:	09/11/2015 18:57	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509364-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/25/2015	**Receive Date:**	08/26/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509364
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465227	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.27 m(0.00)	13.63 m(0.01)	11473849	6159616	72.56	74.80			75 OK
				%Recovery =	73 OK	75 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
c Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result > MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D			**Vial:**	4
Acqu Date:	09/11/2015 18:57	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509364-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {1}	6.28	6.69	64285	37368m	16.52	10.17	2.1U	2.1U	
Aroclor 1254			0	0	10.01	7.50	2.1U	2.1U	2.1U
Aroclor 1254 {2}	6.68	7.06	96277	0m	13.27	0.0000	2.1U	2.1U	
Aroclor 1254 {3}	6.84	7.20	125244	0m	8.56	0.0000	2.1U	2.1U	
Aroclor 1254 {4}	7.18	8.02	16024	25149m	1.68	11.10	2.1U	2.1U	
Aroclor 1254 {5}		8.74	0	3845m	0.0000	1.23	2.1U	2.1U	
Aroclor 1260 {1}	7.08 +0.00	7.84 +0.01	44609	0	4.53	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	5.49	2.40	2.1U	2.1U	2.1U
Aroclor 1260 {2}		9.27 +0.00	0	9885	0.0000	2.62	2.1U	2.1U	
Aroclor 1260 {3}	8.65 +0.00	9.73 +0.01	47381	8792	5.76	2.44	2.1U	2.1U	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	115261	37643	6.13	4.35	2.1U	2.1U	
Aroclor 1260 {5}	9.90 +0.01	11.02 +0.01	78672	3145	5.55	0.5630	2.1U	2.1U	
Aroclor 1262 {1}		9.27	0	9885	0.0000	1.71	2.1U	2.1U	
Aroclor 1262			0	0	4.36	1.98	2.1U	2.1U	2.1U
Aroclor 1262 {2}	8.65	9.73	47381	8792	4.02	2.17	2.1U	2.1U	
Aroclor 1262 {3}	9.11	10.40	115261	37643	4.99	3.90	2.1U	2.1U	
Aroclor 1262 {4}	9.90	11.02	78672	3145	4.53	0.4690	2.1U	2.1U	
Aroclor 1262 {5}	11.03	12.38	32327	6033	3.88	1.65	2.1U	2.1U	
Aroclor 1268 {1}		11.02	0	3145	0.0000	0.2430	2.1U	2.1U	
Aroclor 1268			0	0	2.25	1.13	2.1U	2.1U	2.1U
Aroclor 1268 {2}	9.90	11.21	78672	9472	3.09	0.8670	2.1U	2.1U	
Aroclor 1268 {3}	10.39	11.70	20306	7233	0.9230	0.7580	2.1U	2.1U	
Aroclor 1268 {4}	11.71	13.08	171234	75265	2.73	2.65	2.1U	2.1U	

The - + after Retent on Time symbolize the direction of the RT shift

Prep Amount:	40.148 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	87.2 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F006.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D
Inj Date : 11-SEP-2015 18:57
Sample Info: K1509364-001
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.342	13793122	6457393	77.9	82.1		100.00
Aroclor 1254	6.278	6.685	64285	37368	16.5	10.2	60.00- 120.00	100.00(TH)
	6.682	7.055	96277		13.3		1017.66-1526.49	149.77(TH)
	6.838	7.195	125244		8.56		9646.23-14469.35	194.83(TH)
	7.182	8.015	16024	25149	1.68	11.1	1126.72-1690.08	24.93(TH)
	0.000	8.739		3845		1.23	74.41- 111.61	10.29(TH)
		Average of Peak Amounts =			10.0	7.51		
Aroclor 1260	7.078	7.839	44609		4.53		80.00- 120.00	100.00(TH)
	0.000	9.272		9885		2.62	422.39- 633.59	40.65(TH)
	8.648	9.725	47381	8792	5.76	2.44	72.68- 109.02	106.21(TH)
	9.112	10.399	115261	37643	6.13	4.36	169.11- 253.66	258.38(TH)
	9.902	11.015	78672	3145	5.55	0.563	131.16- 196.75	176.36(TH)
		Average of Peak Amounts =			5.49	2.50		
Aroclor 1262	0.000	9.272		9885		1.71	80.00- 120.00	100.00(TH)
	8.648	9.725	47381	8792	4.02	2.17	81.49- 122.24	0.00(TH)
	9.112	10.399	115261	37643	4.99	3.90	185.52- 278.29	0.00(TH)
	9.902	11.015	78672	3145	4.53	0.469	145.56- 218.35	0.00(TH)
	11.028	12.379	32327	6033	3.88	1.66	49.79- 74.69	0.00(TH)
		Average of Peak Amounts =			4.36	1.98		
Aroclor 1268	0.000	11.015		3145		0.243	80.00- 120.00	100.00(TH)
	9.902	11.209	78672	9472	3.09	0.867	261.97- 392.95	0.00(TH)
	10.392	11.699	20306	7233	0.923	0.758	12.86- 19.30	0.00(TH)
	11.708	13.082	171234	75265	2.73	2.65	30.73- 46.09	0.00(TH)
		Average of Peak Amounts =			2.25	1.13		
Decachlorobiphenyl	12.265	13.629	11473849	6159616	72.6	74.8		100.00
Aroclors, Total	0.000	0.000	305419	73865	22.1	13.1		0.00

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F006.D
Report Date: 15-Sep-2015 08:10

QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

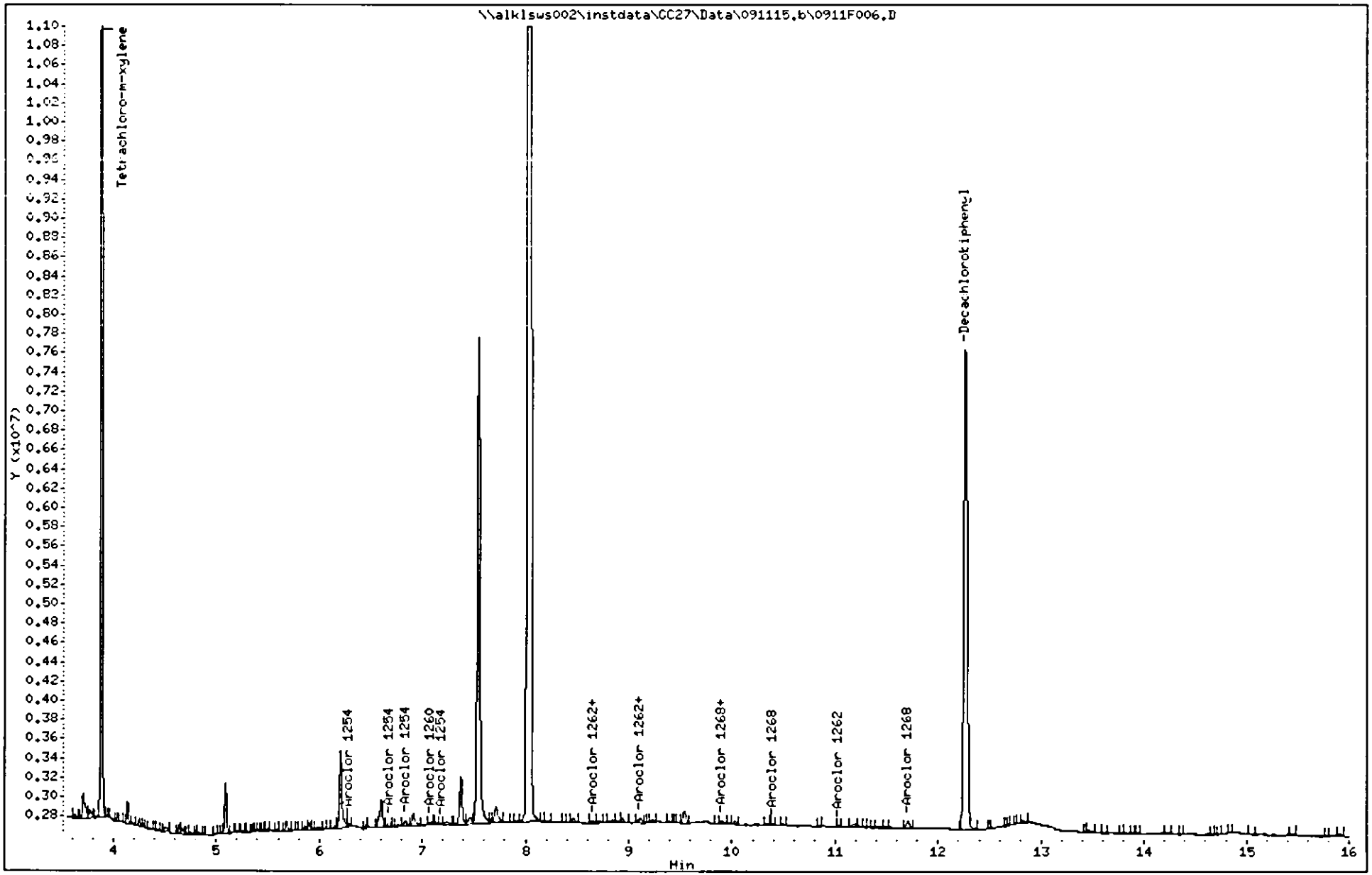
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F006.D
Date : 11-SEP-2015 18:57
Client ID:
Sample Info: K1509364-001

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



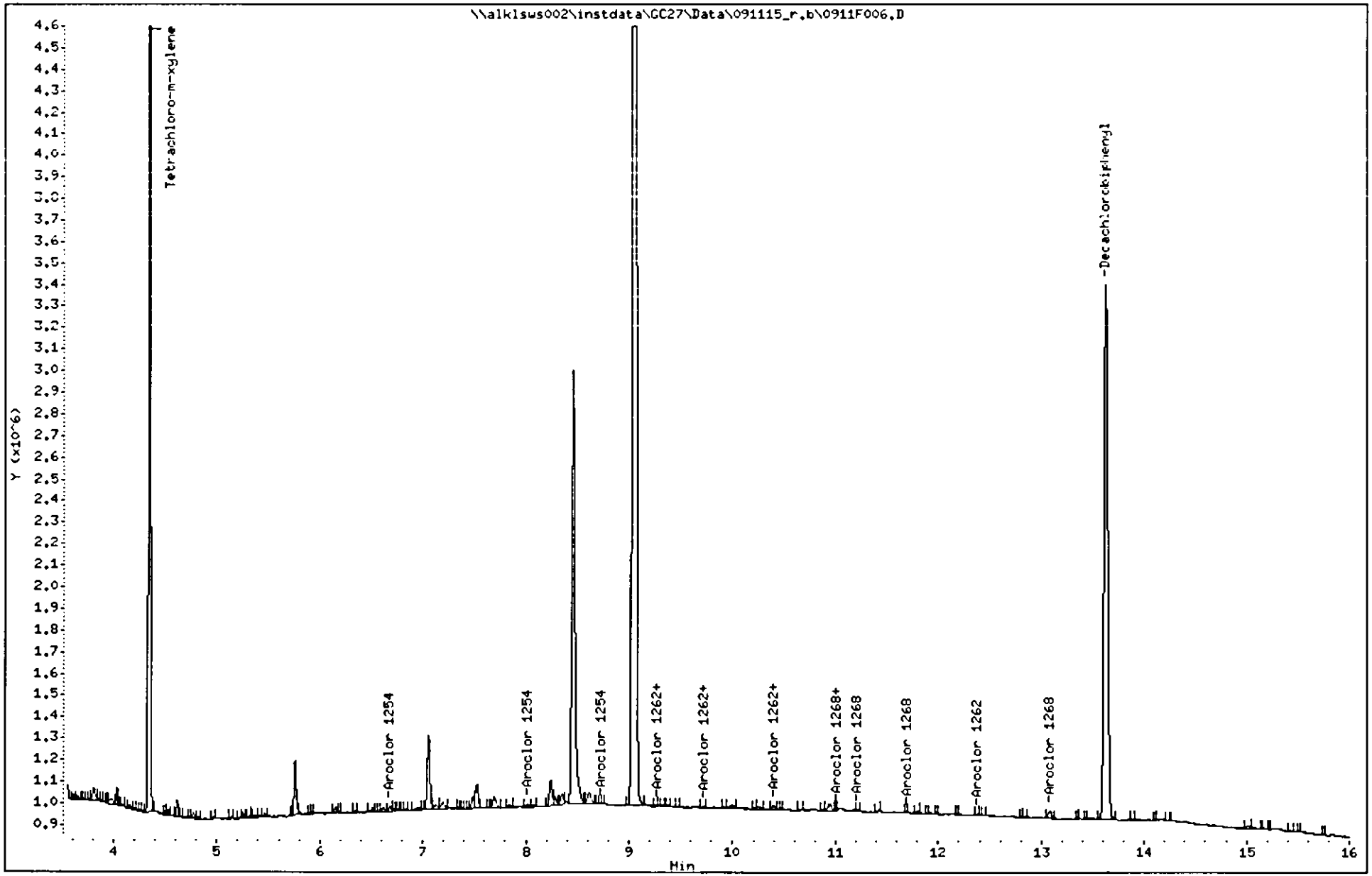
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D
Date : 11-SEP-2015 18:57
Client ID:
Sample Info: K1509364-001

Instrument: GC27.i

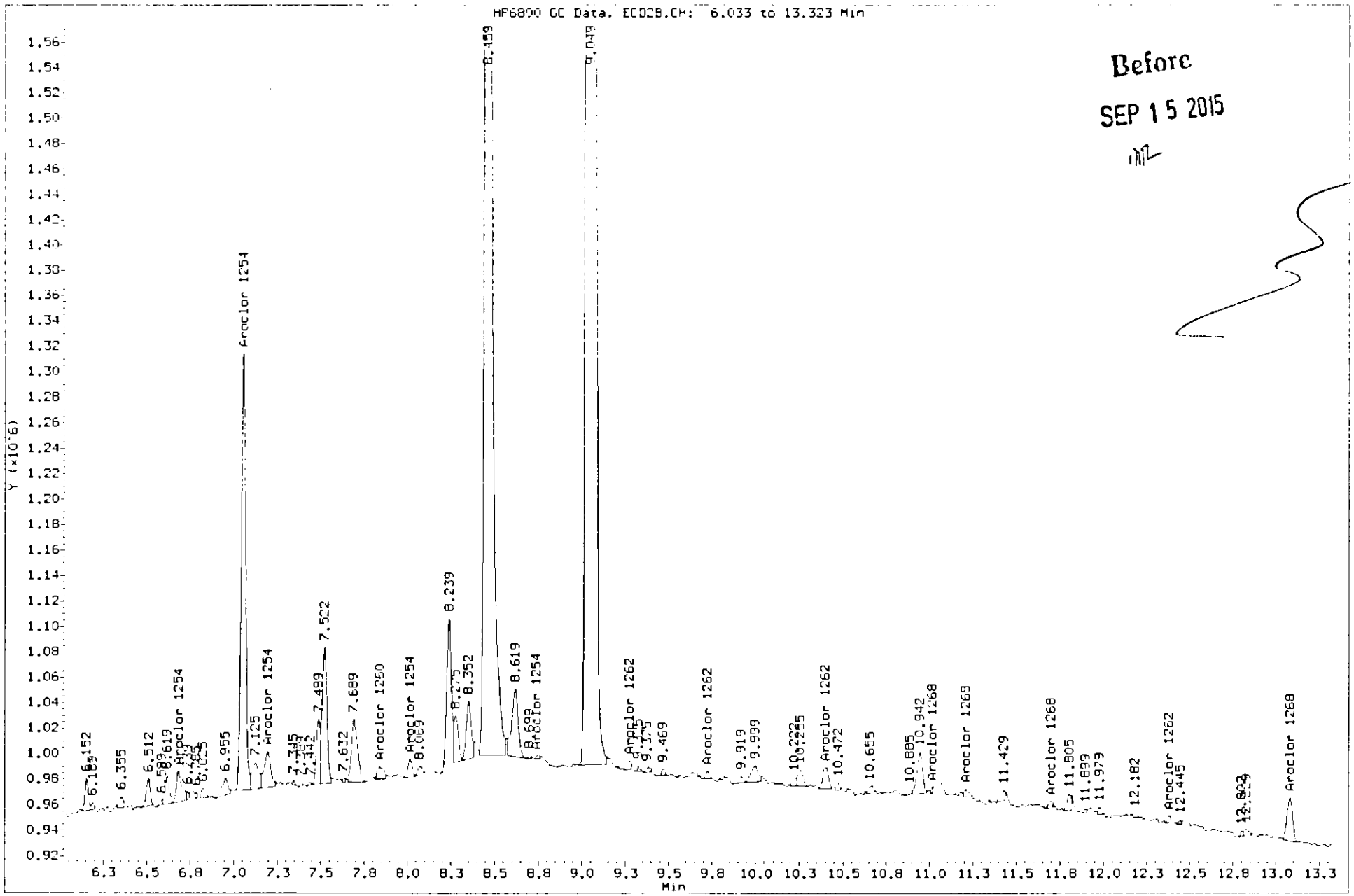
Operator: SHUFRAY

Column phase: DB-XLB

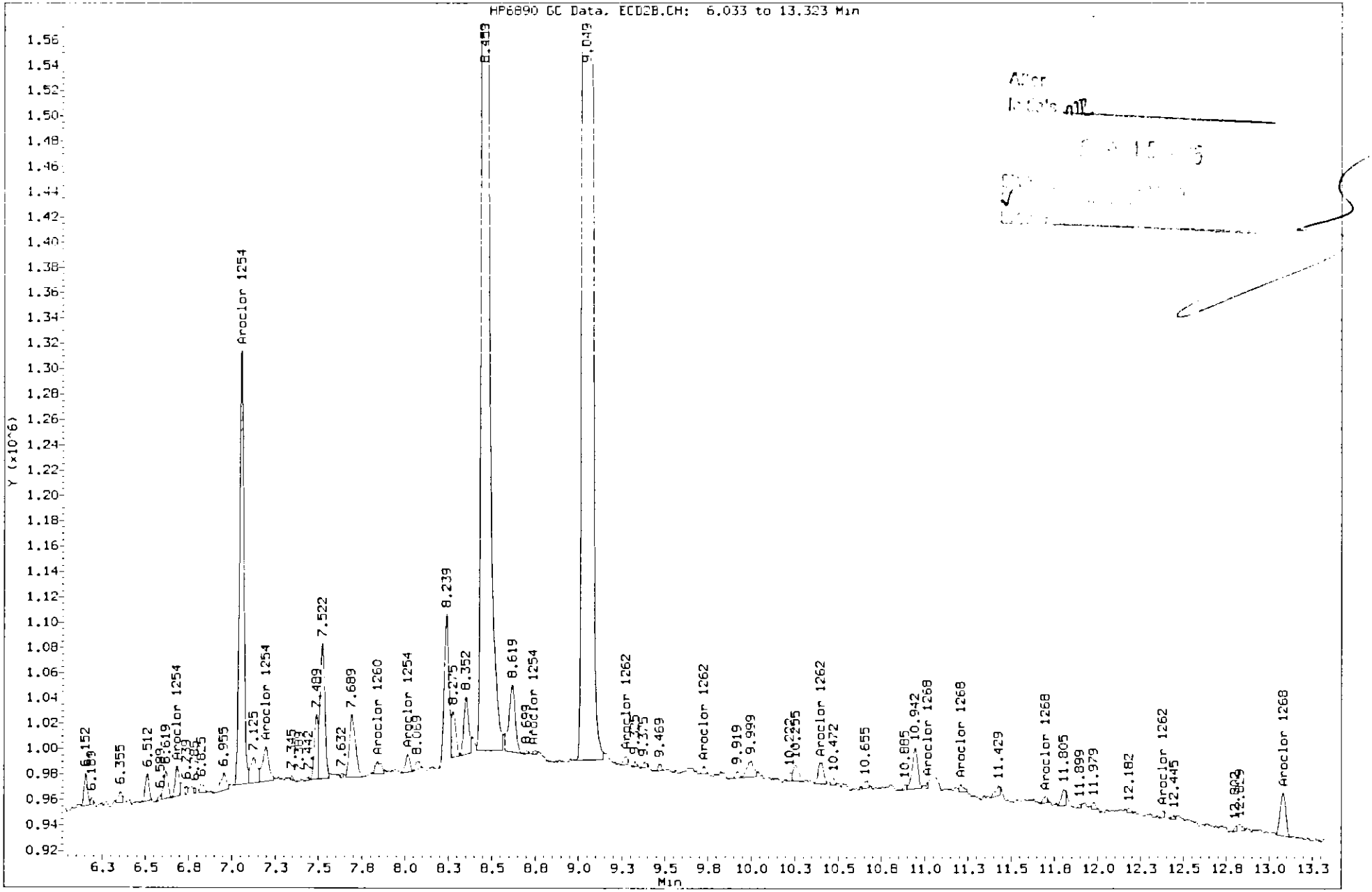
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D
Injection Date: 11-SEP-2015 18:57
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F006.D
Injection Date: 11-SEP-2015 18:57
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	OK

Primary Review: MR 09/15

Secondary Review: [signature]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	JQV dl
	Aroclor 1260	22.7	NA	20	JQV Dual

Primary Review: hmr 09/15/15

Secondary Review: N

Printed: 09/15/2015 08:57:21
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465237	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	16808308	6398347	94.95CCV	81.35			81 OK
				%Recovery =	95 OK	81 OK	Limits =	44-130	
Decachlorohiphenyl	12.26 -0.01	13.62 0.00	14638591	7323472	92.57	88.93			93 OK
				%Recovery =	93 OK	89 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.324 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
& Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Inj Date : 12-SEP-2015 01:09
Sample Info: KWG1508618-MB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16808308	6398347	94.9	81.3		100.00
Decachlorobiphenyl	12.258	13.621	14638591	7323472	92.6	88.5		100.00

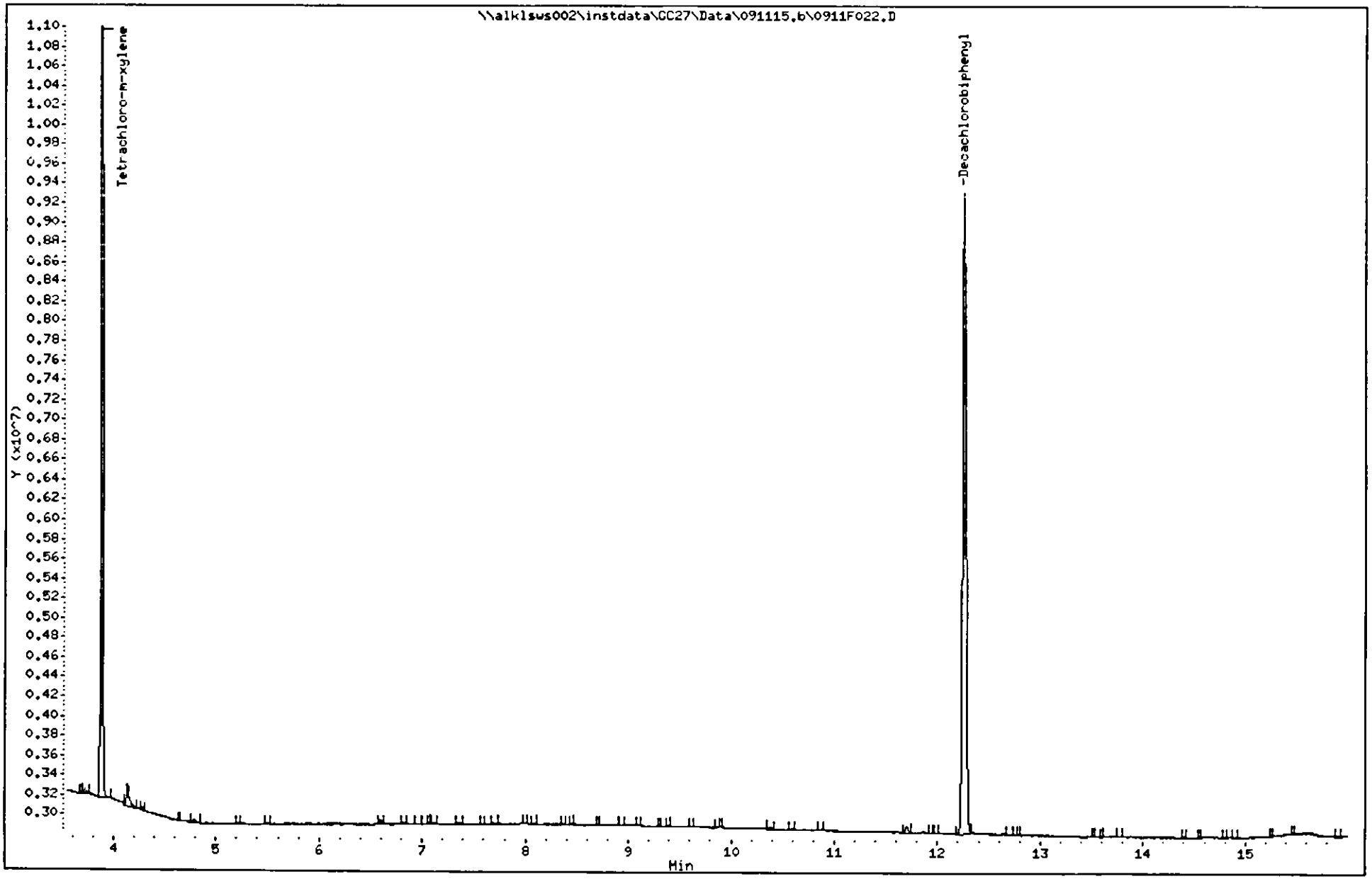
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-MB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



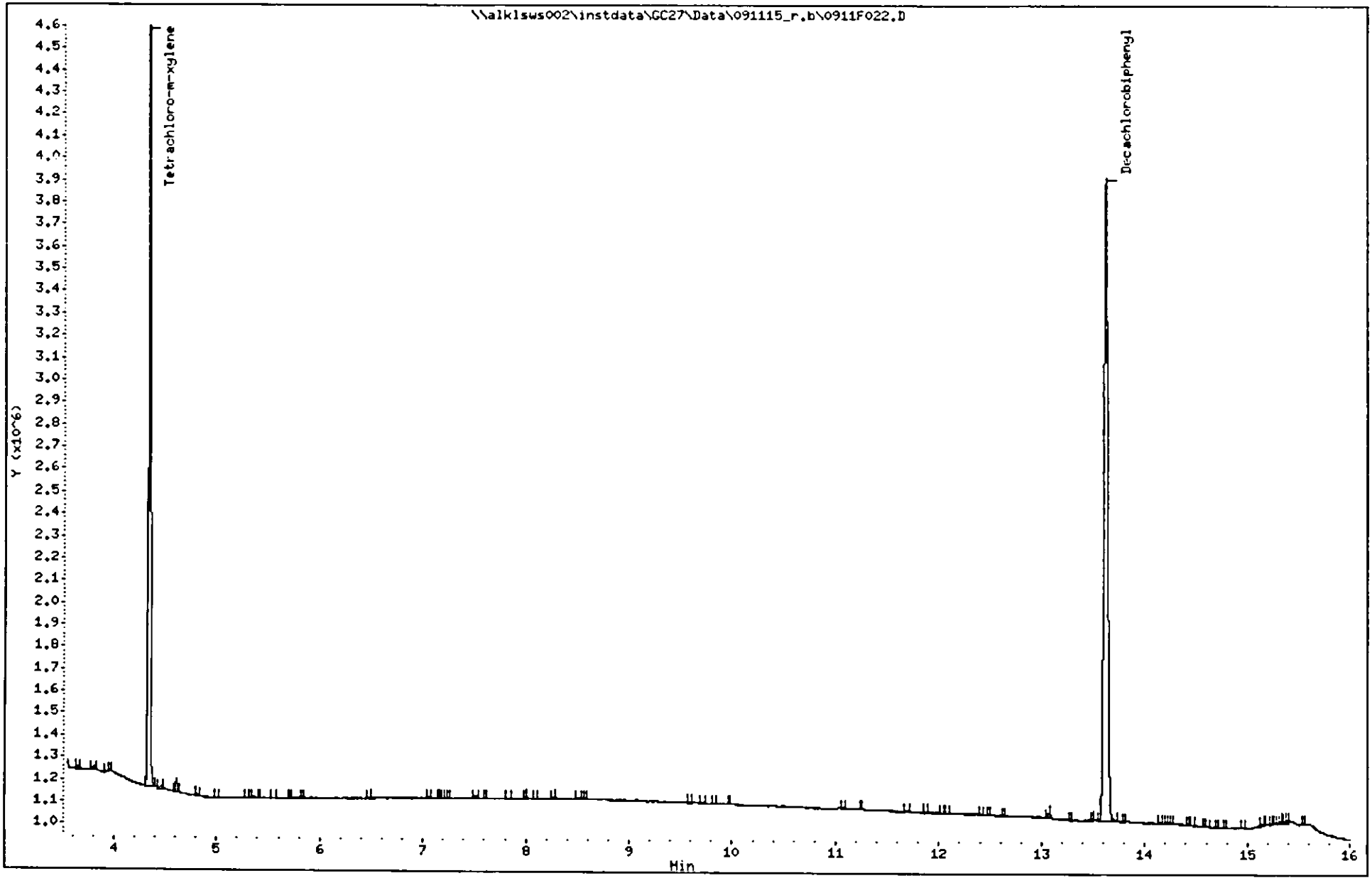
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-HB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCN ok

Primary Review: MC 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TCV ok
	Aroclor 1260	22.7	NA	20	TCV Dual

Primary Review: JMC 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/25/2015	**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509528
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465233	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ17278
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 +0.00	13.63 +0.01	13056662	6393434	82.57	77.64			83 OK
				%Recovery =	83 OK	78 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {1}	6.25	6.71	1714211m	835526m	440.62	227.37	59	31	
Aroclor 1254			0	0	400.85	424.14	54	57	**54**
Aroclor 1254 {2}	6.68	7.05	2107145m	2511814m	290.34	433.58	39	58	
Aroclor 1254 {3}	6.84	7.16	6123071m	728958m	418.40	376.31	56	51	
Aroclor 1254 {4}	7.18	8.01	3627229m	1403548m	379.20	619.53	51	83	
Aroclor 1254 {5}	7.78	8.77	3011936m	1455759m	475.69	463.93	64	62	
Aroclor 1260 {1}	7.08 0.00	7.83 +0.00	4138346m	667508m	420.11	302.60	56	41	
Aroclor 1260			0	0	299.69	286.45	40	39	**39**
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	1944594m	866979m	239.66	229.37	32	31	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	1920020m	1118923m	233.27	310.05	31	42	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	5061893m	2281621m	269.27	264.25	36	36	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	4768801m	1821113m	336.15	326.05	45	44	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0244 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Inj Date : 11-SEP-2015 21:17
Sample Info: K1509528-006
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	14973224	5563928	84.6	70.7		100.00
Aroclor 1254	6.250	6.710	1714211	835526	441	227	80.00- 120.00	100.00(MH)
	6.683	7.053	2107145	2511814	290	434	1017.66-1526.49	122.92(MH)
	6.837	7.163	6123071	728958	418	376	9646.23-14469.35	357.19(MH)
	7.177	8.013	3627229	1403548	379	620	1126.72-1690.08	211.60(MH)
	7.783	8.767	3011936	1455759	476	464	281.12- 421.67	175.70(MH)
			Average of Peak Amounts =		401	424		
Aroclor 1260	7.077	7.833	4138346	667508	420	303	80.00- 120.00	100.00(MH)
	8.097	9.270	1944594	866979	240	229	71.27- 106.90	46.99(MH)
	8.647	9.723	1920020	1118923	233	310	72.68- 109.02	46.40(MH)
	9.110	10.397	5061893	2281621	269	264	169.11- 253.66	122.32(MH)
	9.897	11.033	4768801	1821113	336	326	131.16- 196.75	115.23(MH)
			Average of Peak Amounts =		300	286		
Decachlorobiphenyl	12.263	13.627	13056662	6393434	82.6	77.6		100.00
Aroclors, Total	0.000	0.000	6883449	2738349	701	711		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

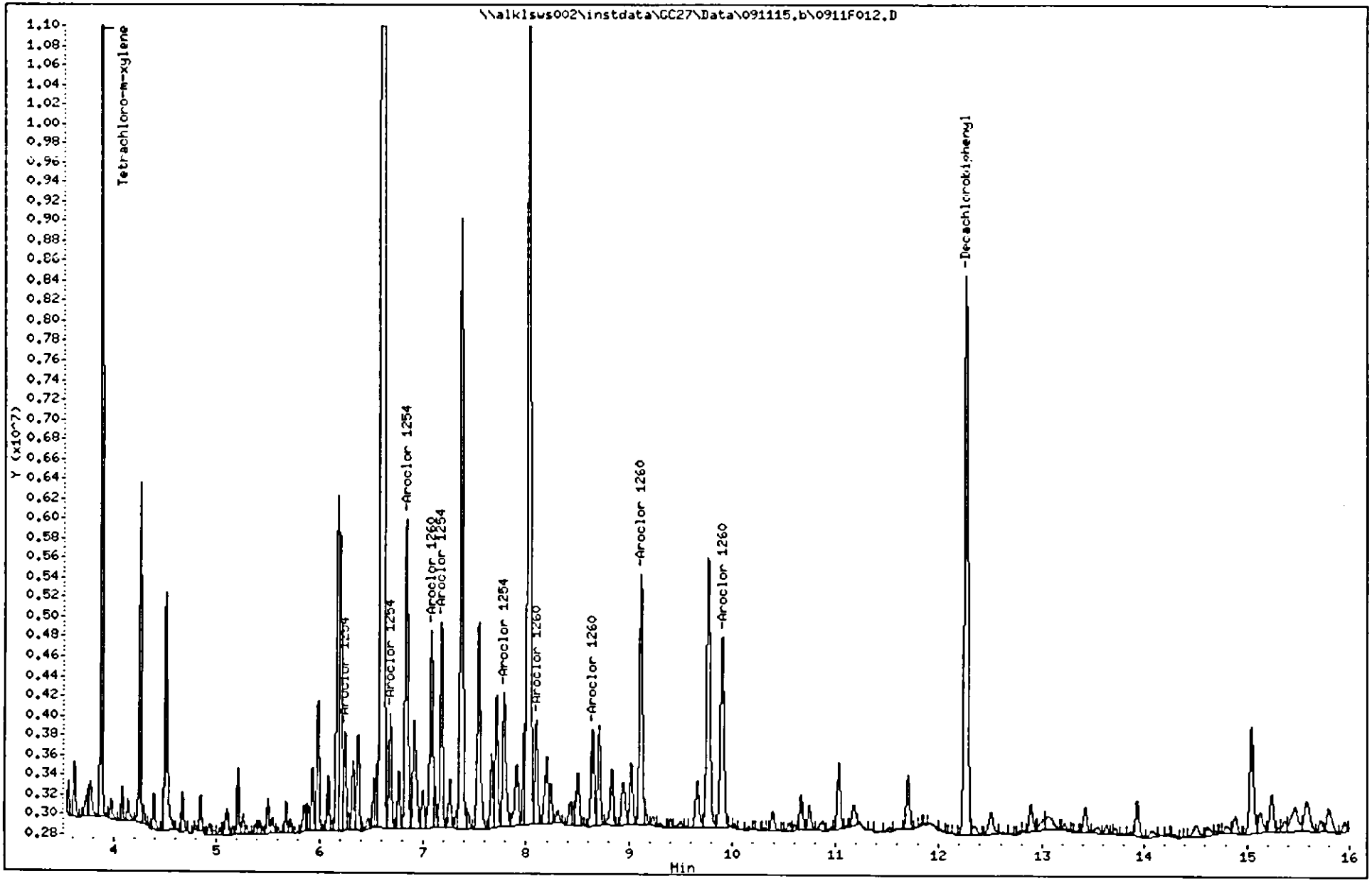
Data File: \\alklsus002\instdata\GC27\Data\091115,b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



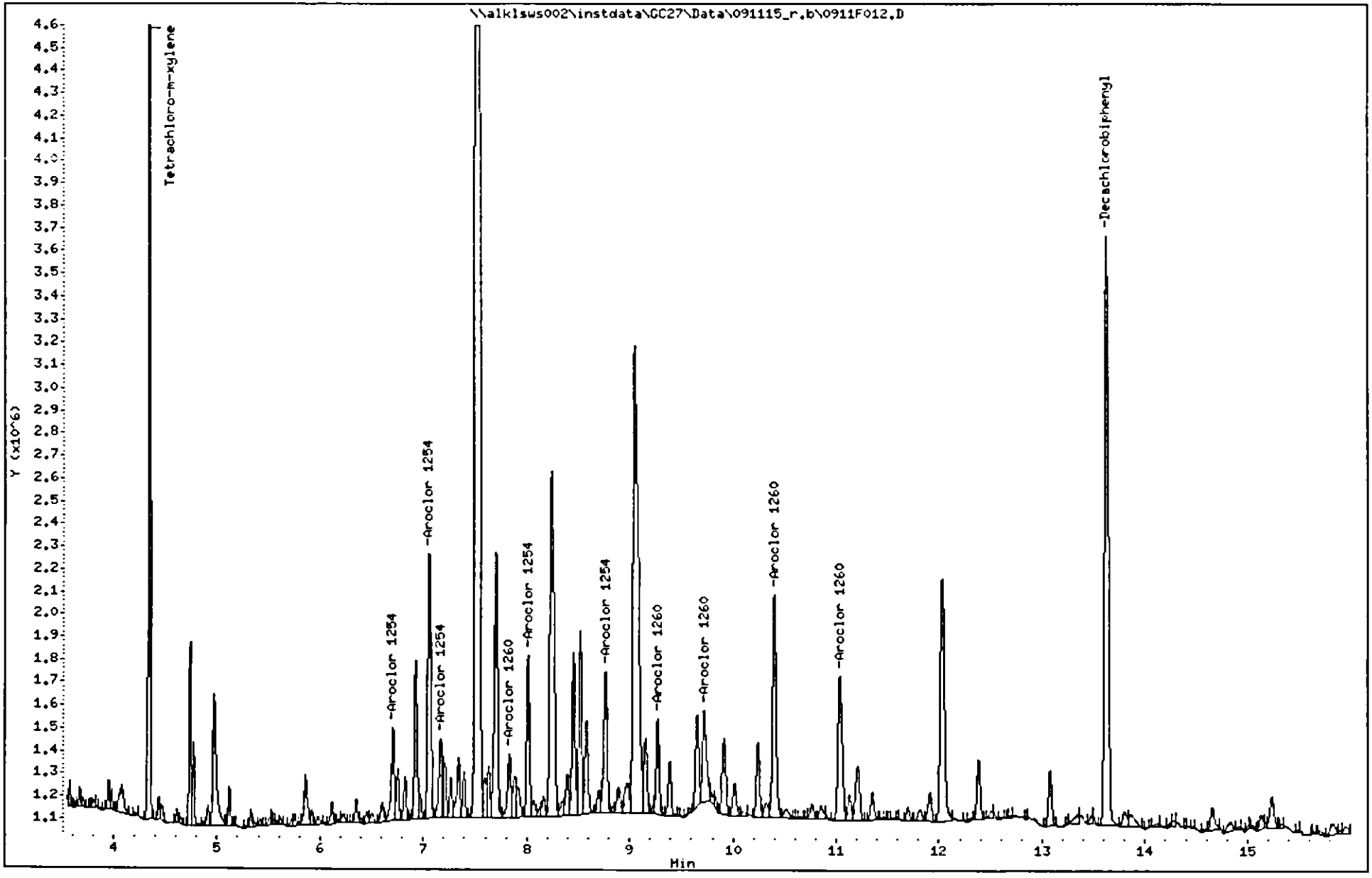
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006

Instrument: GC27.i

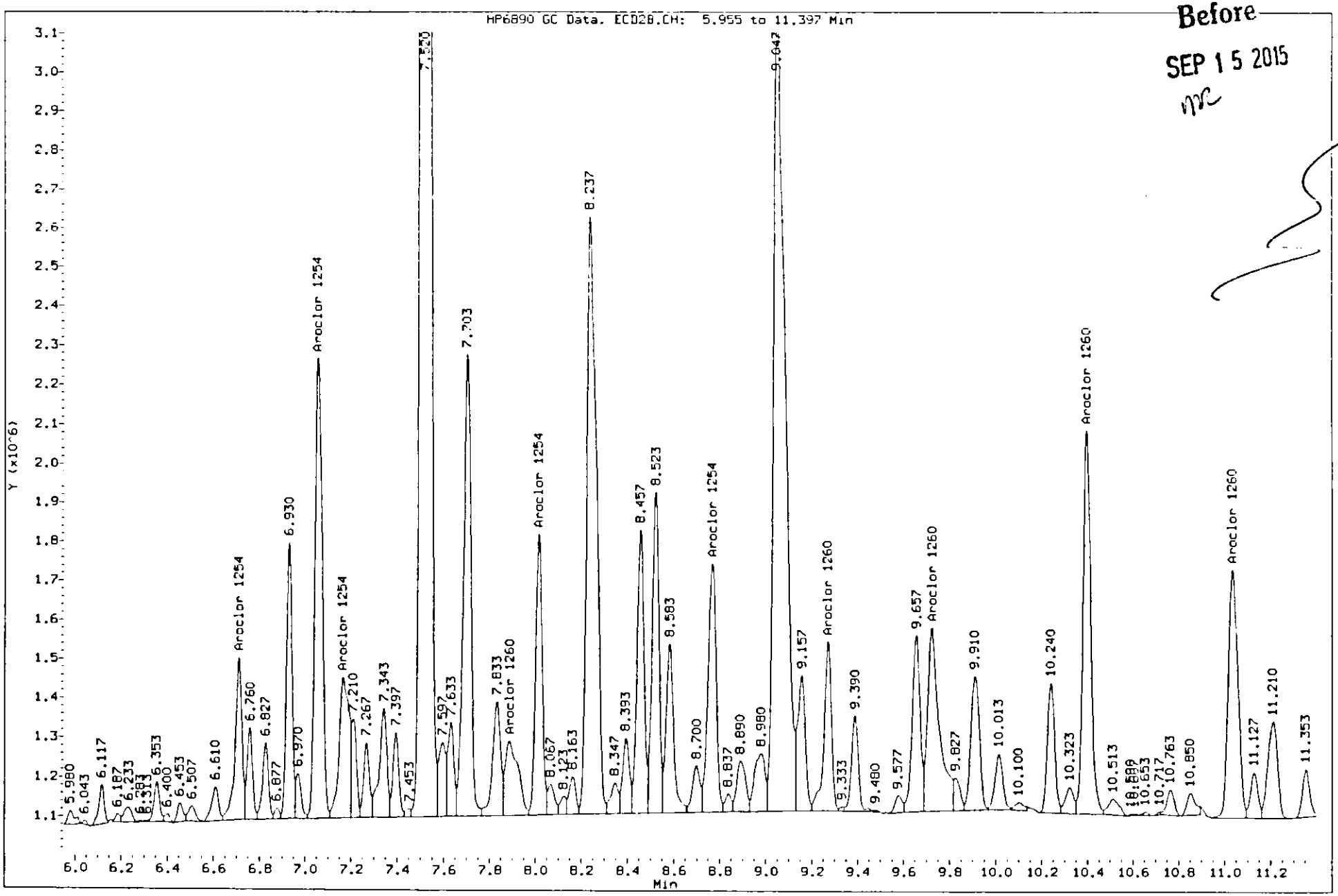
Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:

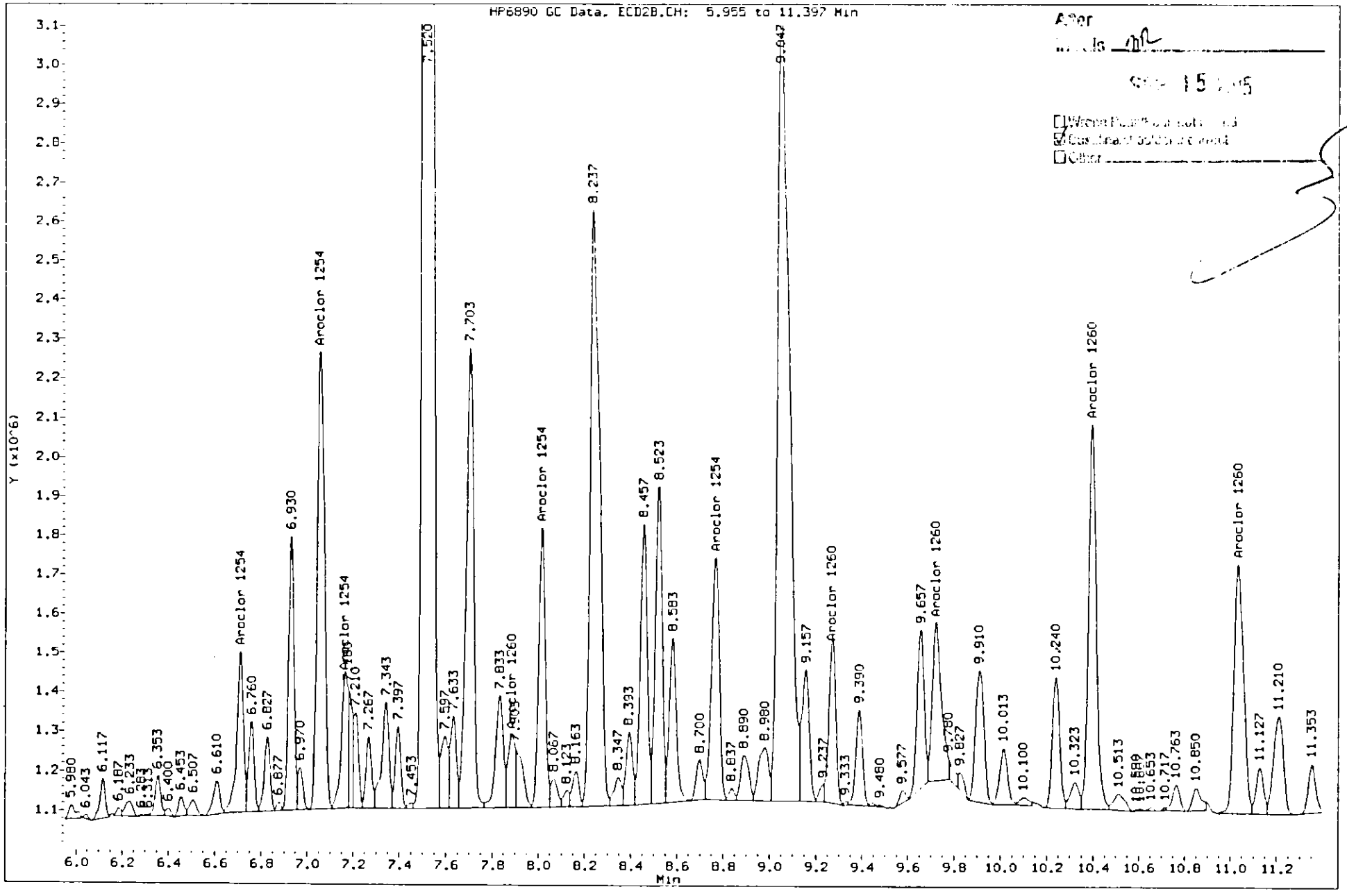


Before

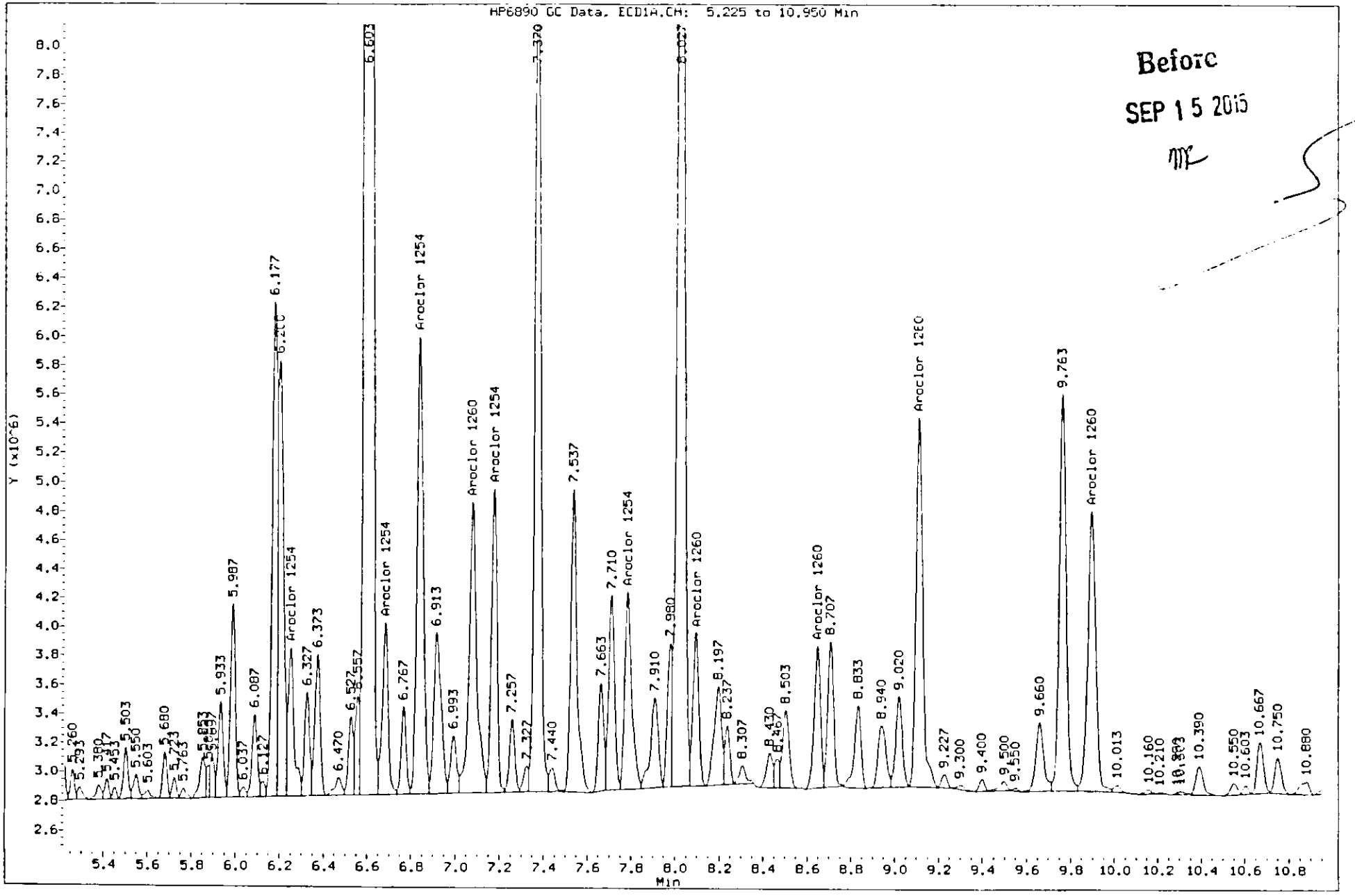
SEP 15 2015

mc

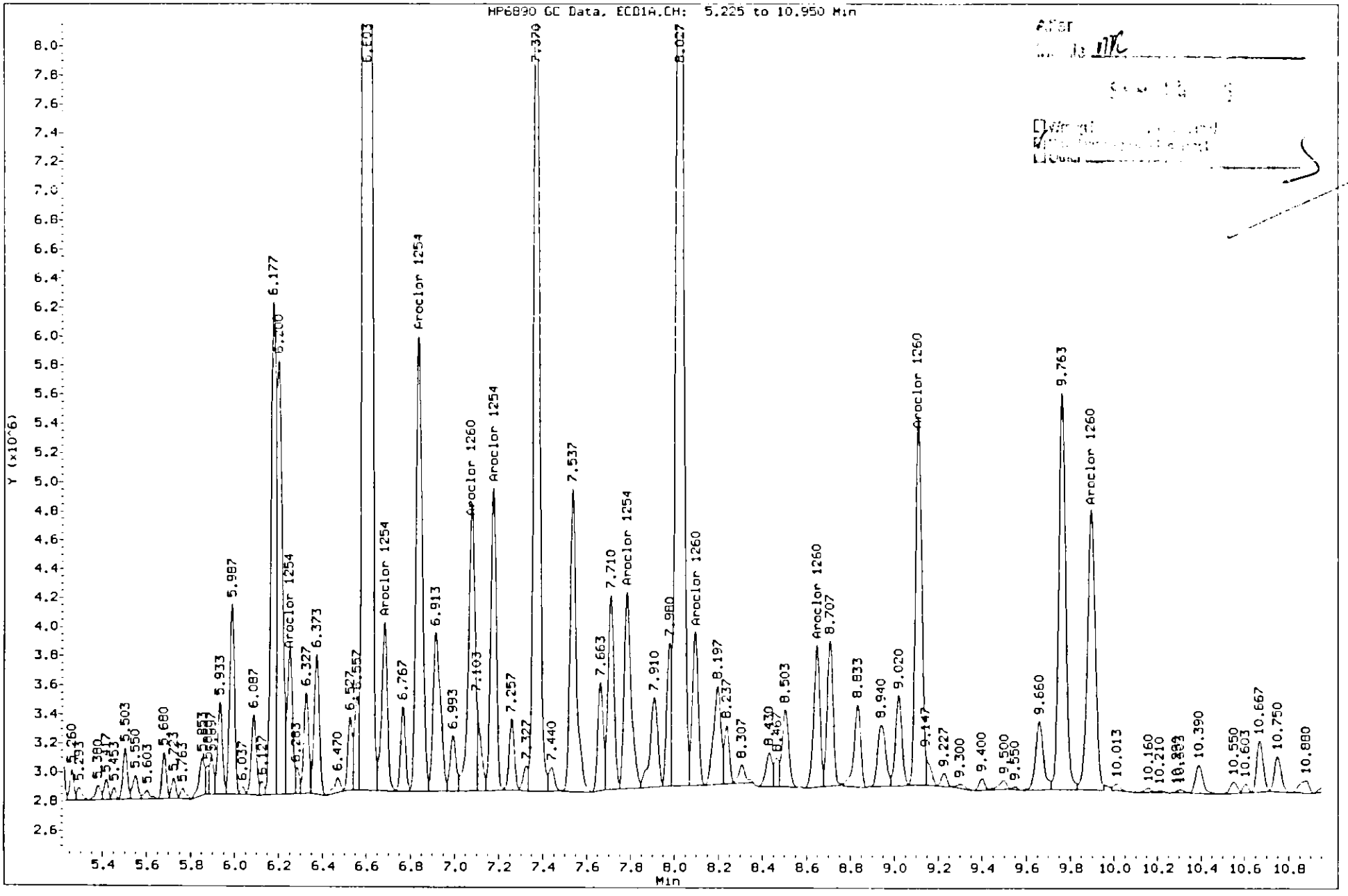
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	ICV ok

mr 09/15/15

Primary Review: mr 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Qual

Primary Review: mk 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465234	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 +0.00	4.34 0.00	17571291	6319800	99.26CCV	80.35			99 OK
			%Recovery =		99 OK	80 OK	Limits =	44-130	
Decachlorobiphenyl	12.27 +0.00	13.63 +0.00	15470180	7550124	97.83	91.68			98 OK
			%Recovery =		98 OK	92 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	856.75	788.25	115	106	106
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	2523398m	1381703m	703.10	751.70	94.4	101	
Aroclor 1016 {2}	4.74 0.00	4.96 +0.00	2707157m	2538257m	903.56	1,043	121	140	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	8155207m	2098668m	824.50	699.73	111	93.9	
Aroclor 1016 {4}	5.21 +0.00	5.93 +0.00	4767834m	1541066m	961.01	702.08	129	94.2	
Aroclor 1016 {5}	5.50 0.00	6.12 +0.01	4615242m	1606547m	891.59	745.15	120	100	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,139	1,153	153	155	153
Aroclor 1260 {1}	7.08 0.00	7.84 +0.00	10797308	2154248m	1,096	976.59	147	131	
Aroclor 1260 {2}	8.10	9.27 +0.00	8803668	4228502m	1,085	1,119	146	150	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	9086681	4675074m	1,104	1,295	148	174	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	22040015	10109112m	1,172	1,171	157	157	
Aroclor 1260 {5}	9.90	11.03 +0.00	17556446	6712352m	1,238	1,202	166	161	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0686 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Inj Date : 11-SEP-2015 21:40
Sample Info: K1509528-006MS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	17571291	6319800	99.3	80.3		100.00
Aroclor 1016	4.238	4.618	2523398	1381703	703	752	80.00- 120.00	100.00(MH)
	4.741	4.955	2707157	2538257	904	1040	62.72- 94.08	107.28(MH)
	4.938	5.591	8155207	2098668	825	700	184.36- 276.53	323.18(MH)
	5.211	5.925	4767834	1541066	961	702	95.63- 143.44	188.94(MH)
	5.501	6.121	4615242	1606547	892	745	100.19- 150.28	182.90(MH)
		Average of Peak Amounts =			857	788		
Aroclor 1260	7.078	7.835	10797308	2154248	1100	977	80.00- 120.00	100.00(H)
	8.095	9.271	8803668	4228502	1090	1120	71.27- 106.90	81.54(H)
	8.648	9.721	9086681	4675074	1100	1300	72.68- 109.02	84.16(H)
	9.111	10.398	22040015	10109112	1170	1170	169.11- 253.66	204.13(H)
	9.895	11.031	17556446	6712352	1240	1200	131.16- 196.75	162.60(H)
		Average of Peak Amounts =			1140	1150		
Decachlorobiphenyl	12.265	13.625	15470180	7550124	97.8	91.7		100.00
Aroclors, Total	0.000	0.000	18210591	7409105	2000	1940		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

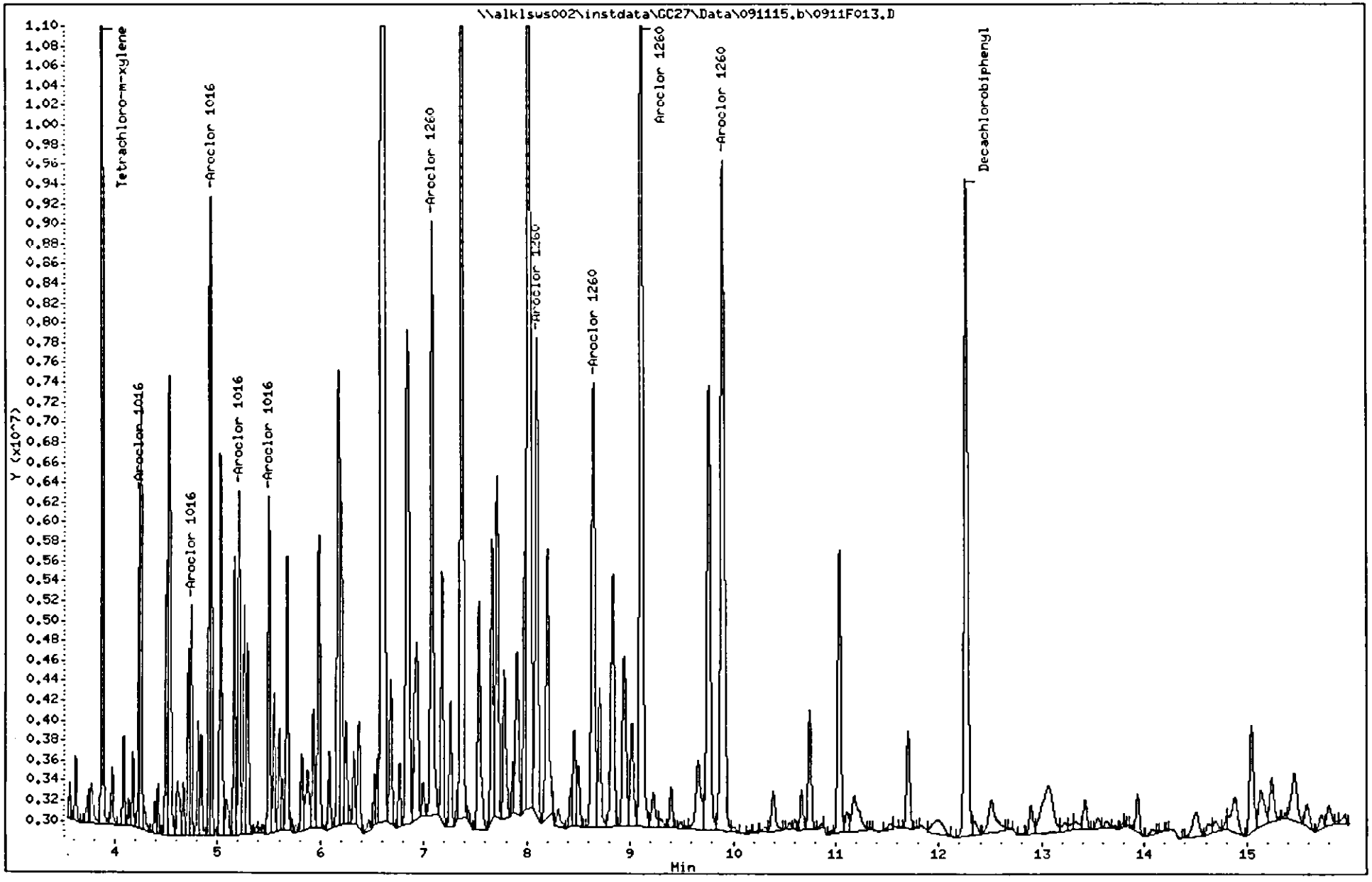
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006HS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35HS

Column diameter: 0.32



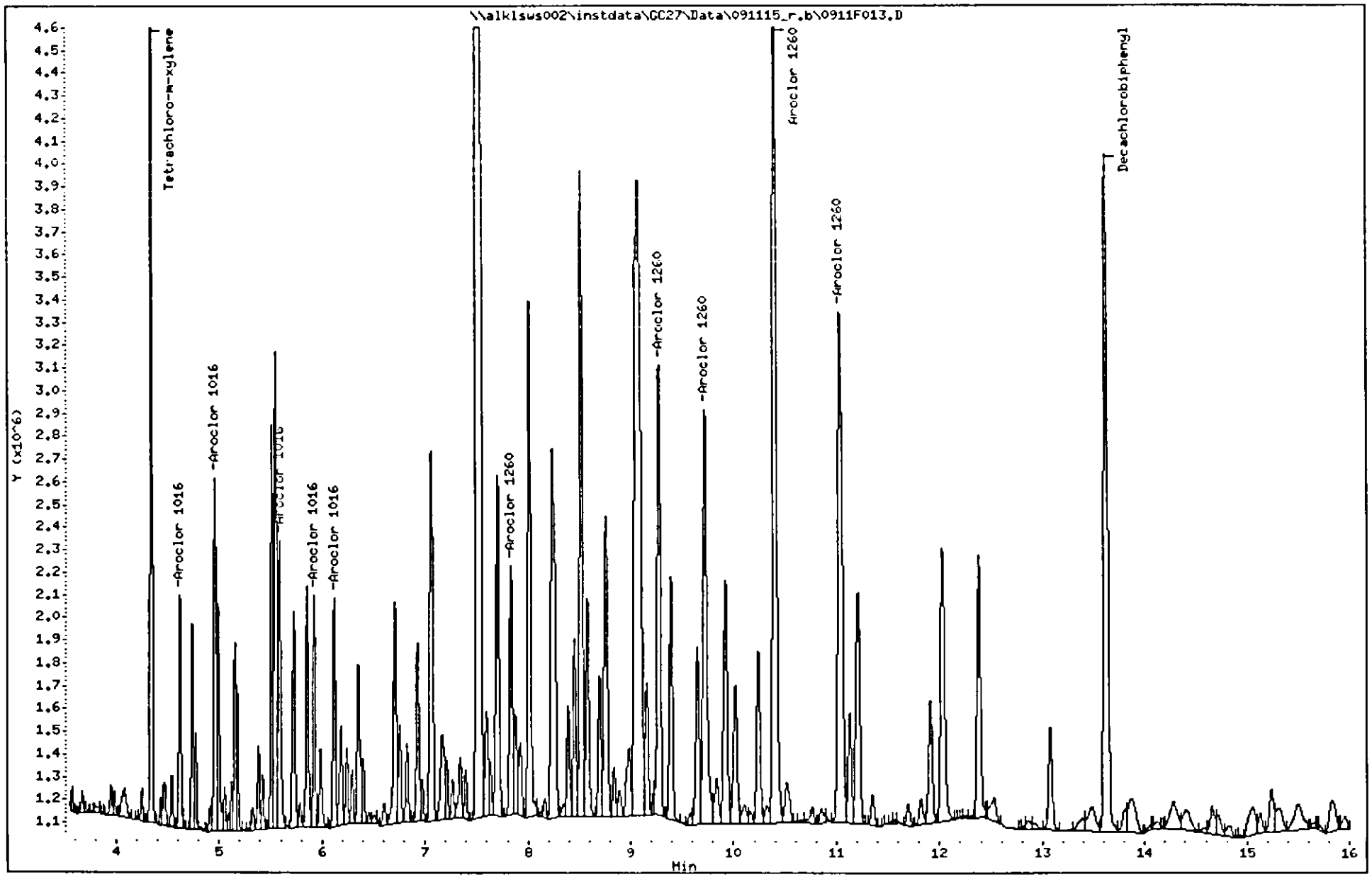
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006HS

Instrument: GC27.i

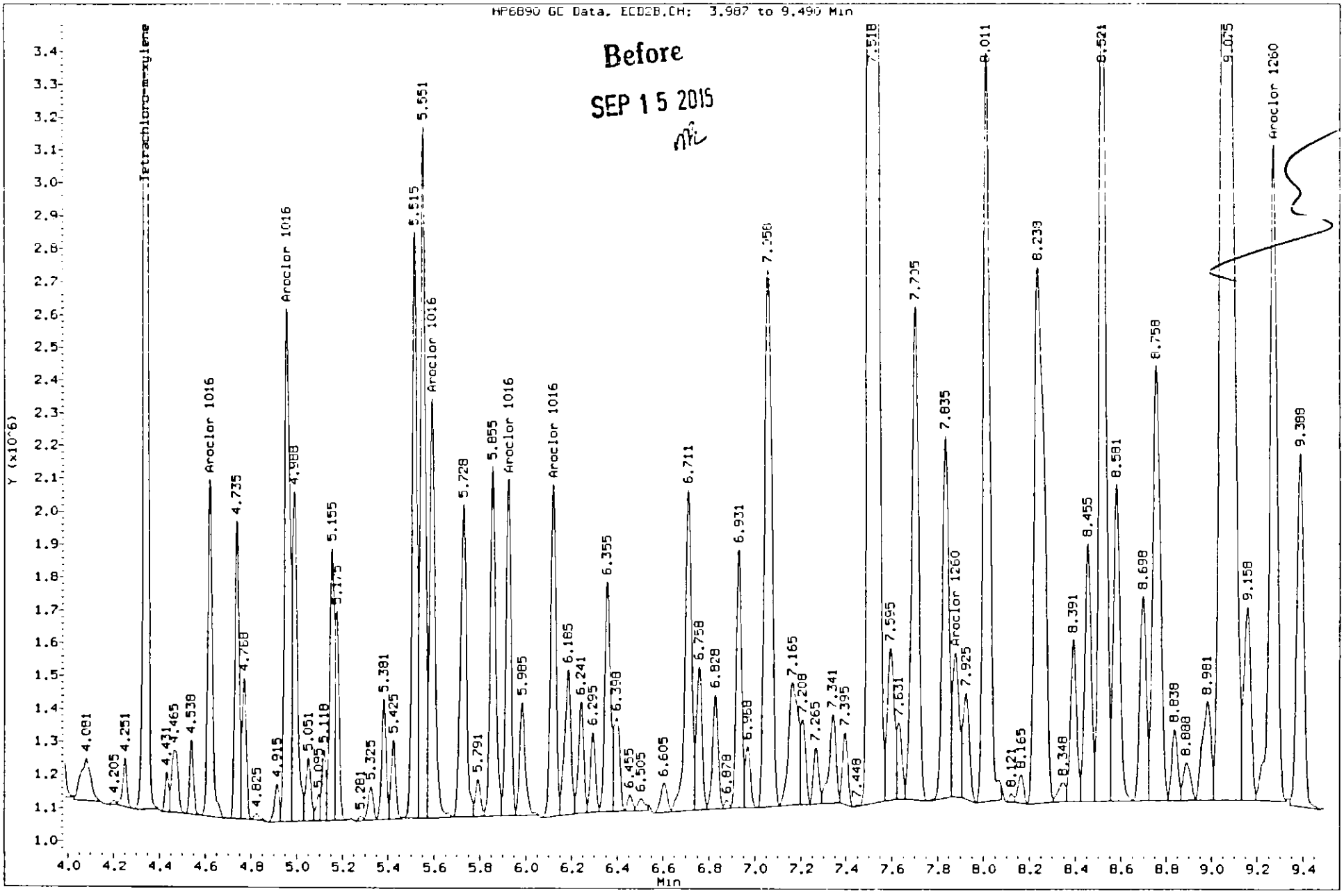
Operator: SMURRAY

Column phase: DB-XLB

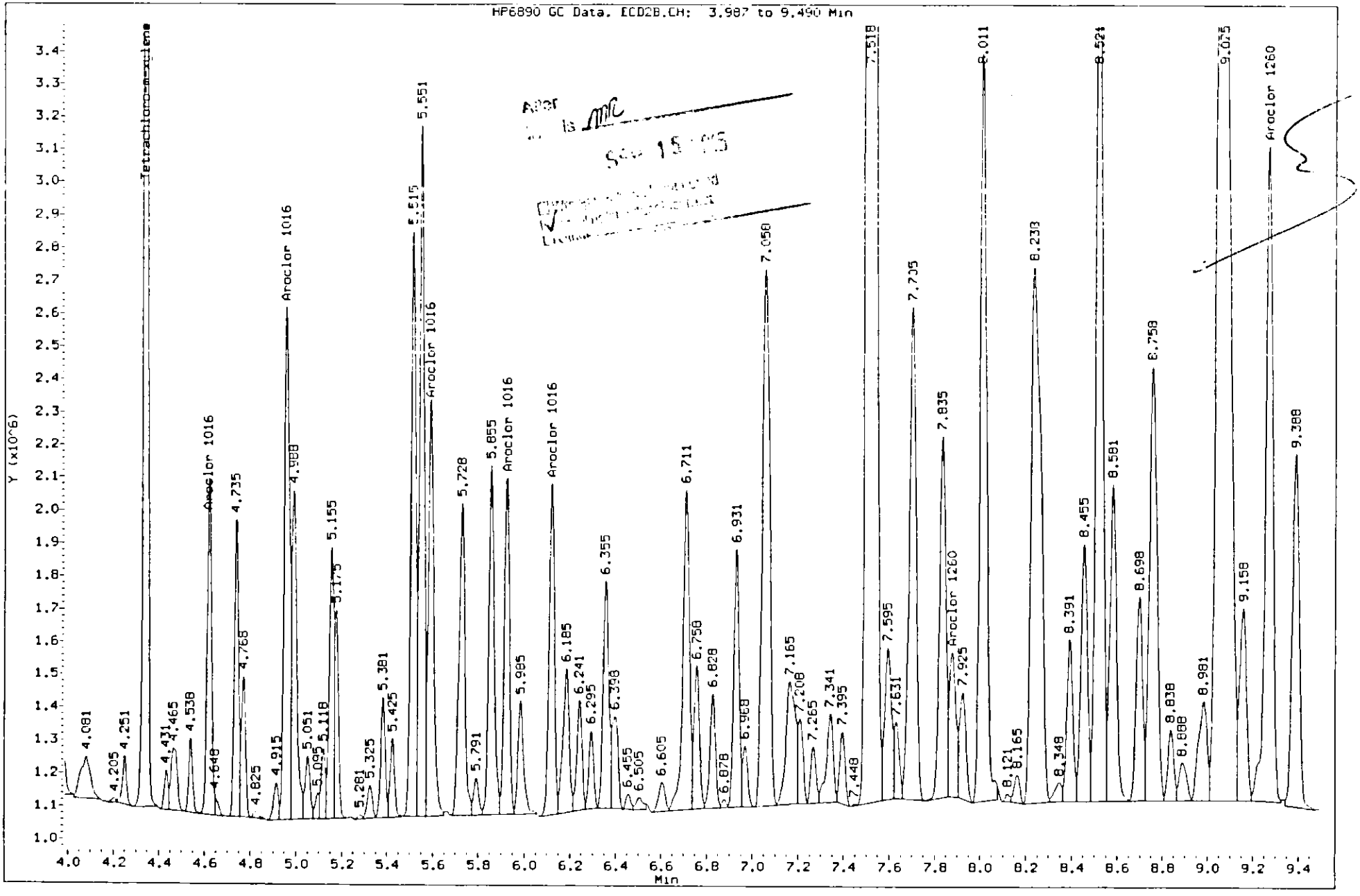
Column diameter: 0.32



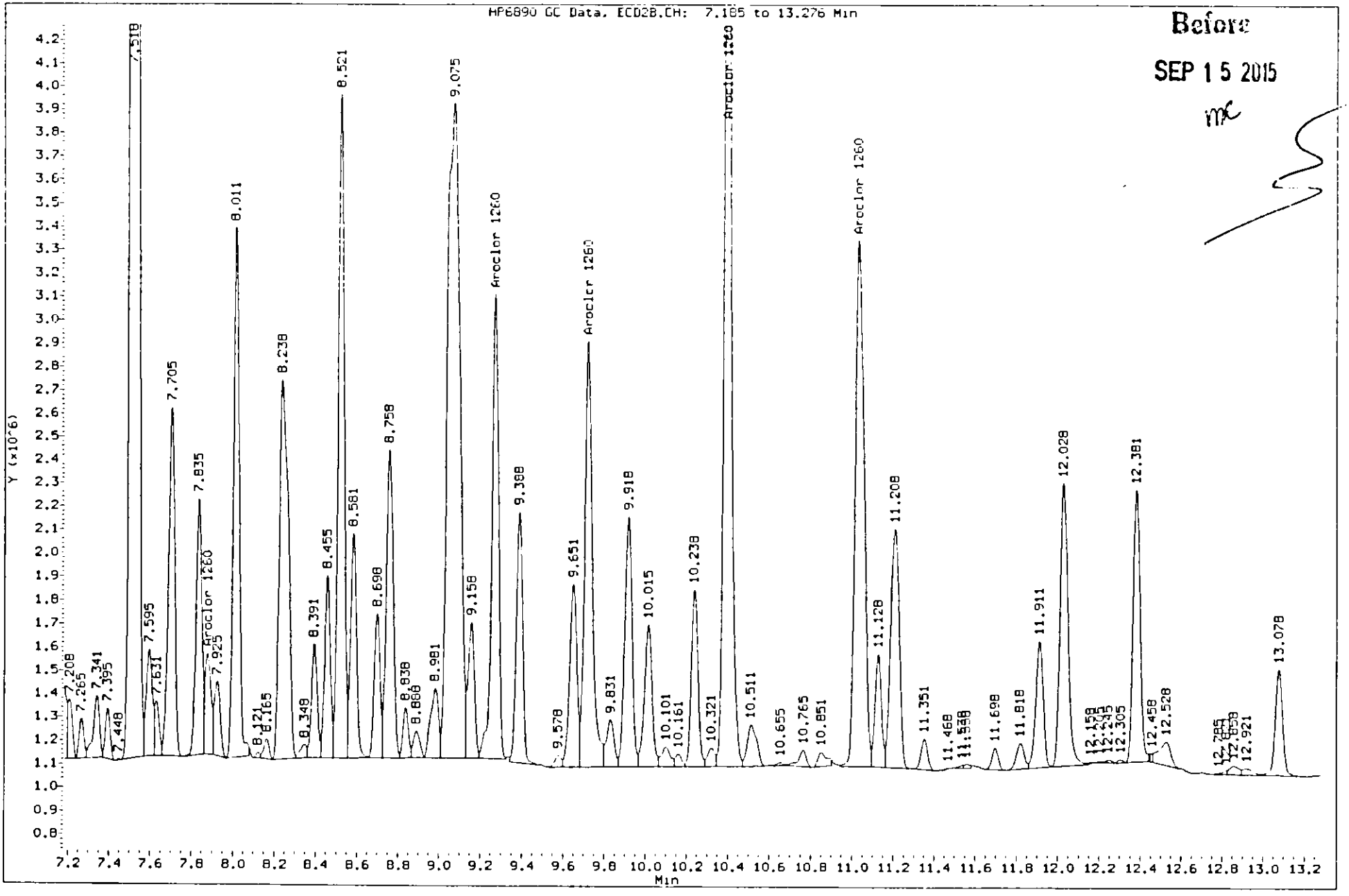
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



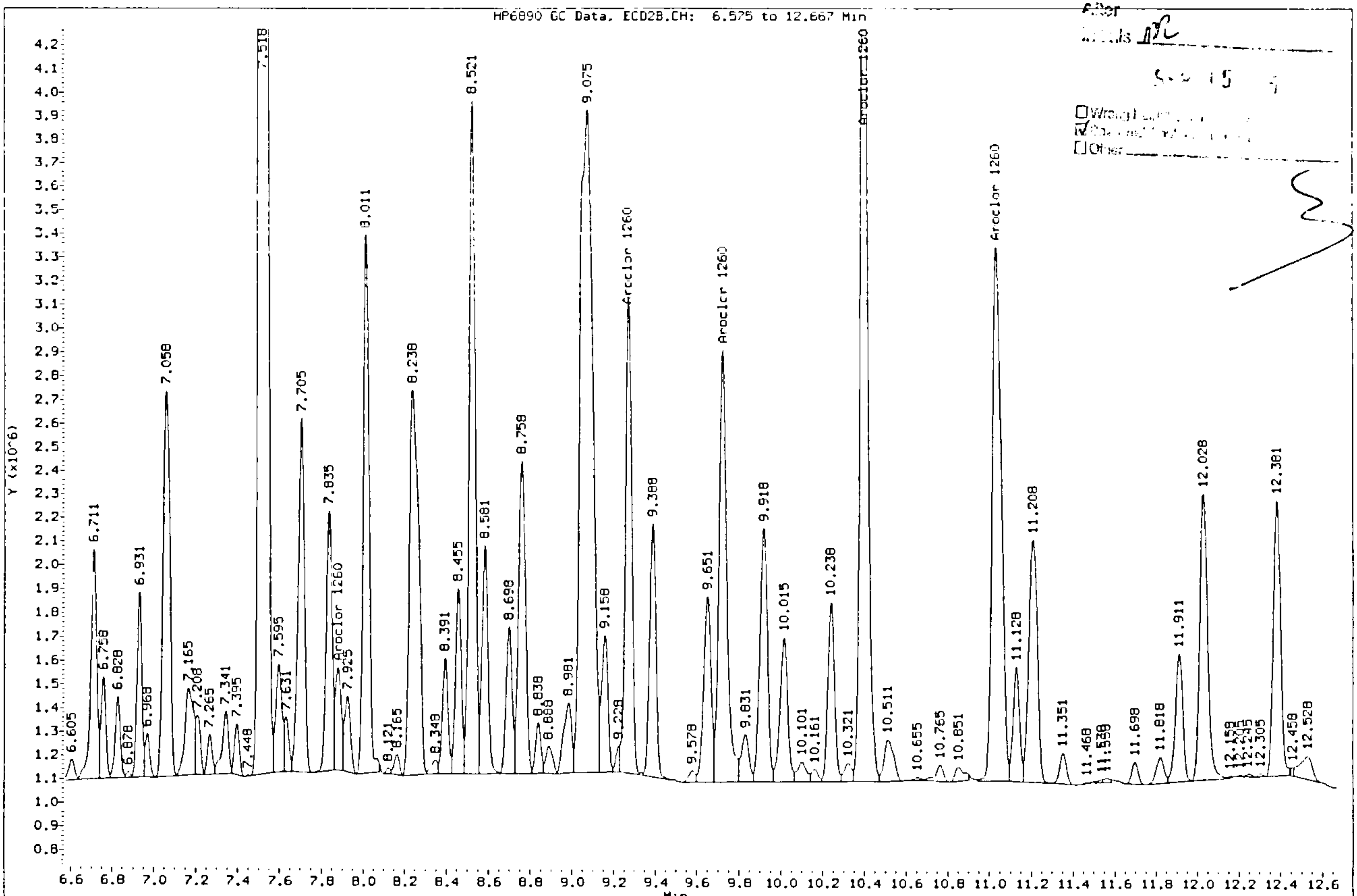
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



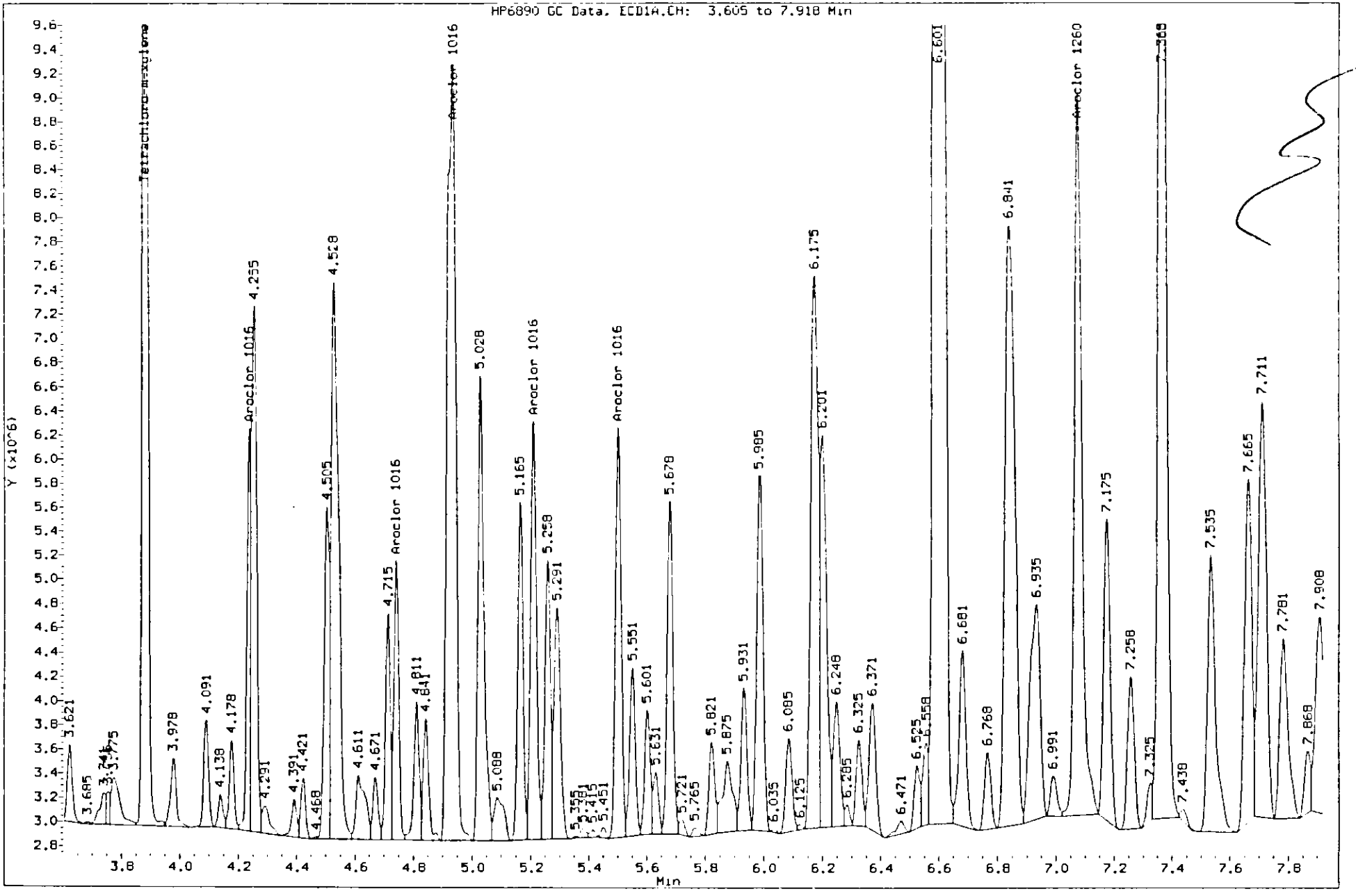
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



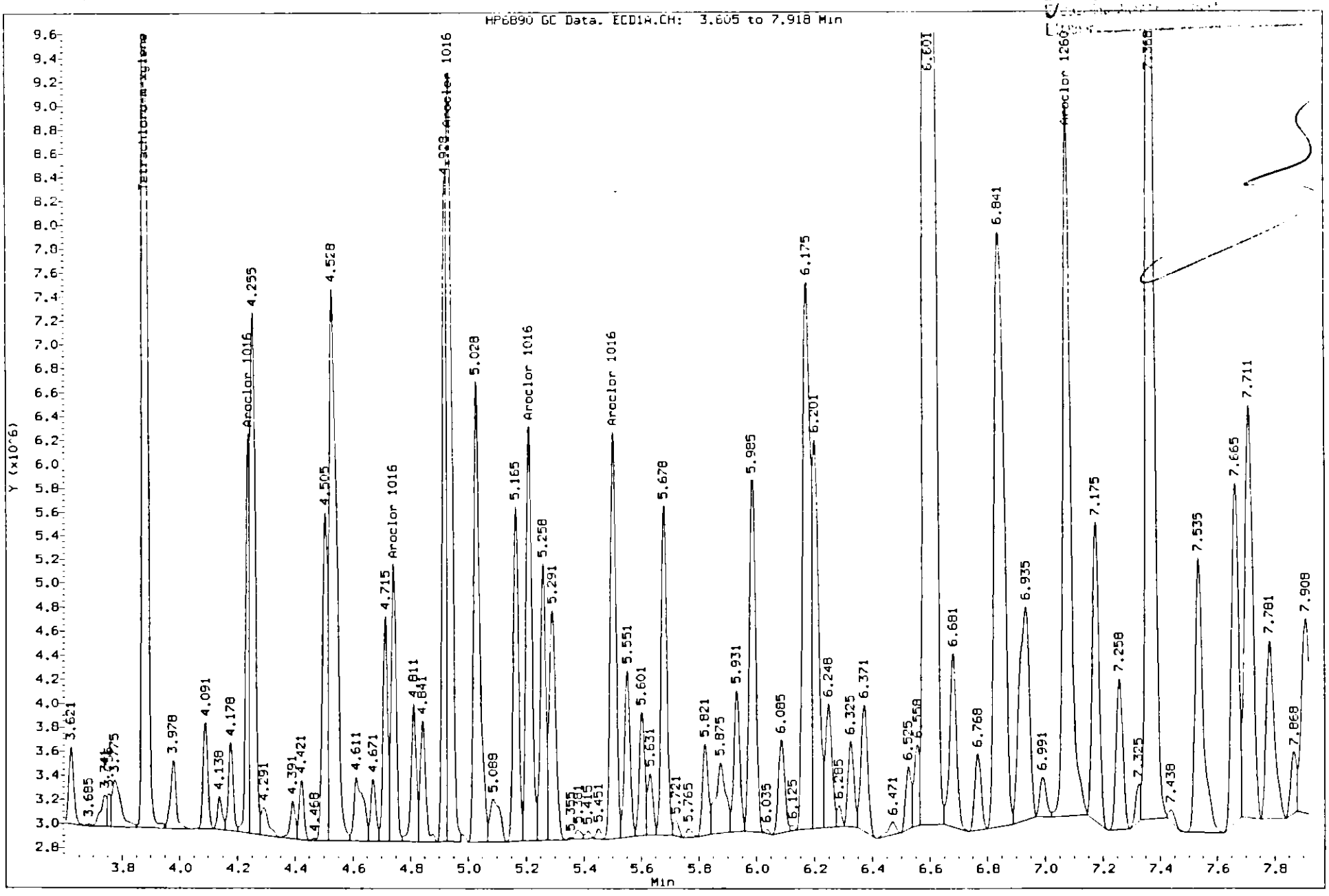
Before

SEP 15 2015

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F014.D
Lab ID: KWG1508618-2 -- K1509528-006DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/11/2015 22:04
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	DB

Primary Review: AMC 09/15/15

Secondary Review:

Printed: 09/15/2015 08:56:06
u:\Stealth\Crystal rpt\except2 rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F014.D	**Date Acquired:**	09/11/2015 22:04
Lab ID:	KWG1508618-2 -- K1509528-006DMS	**Date Quantitated:**	09/15/2015 08:12
RunType:	DMS	**Batch ID:**	KWG1508799
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Qual

Primary Review: mc 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465235	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 +0.00	4.34 +0.00	16718550	6363109	94.44CCV	80.93			94 OK
			%Recovery =		94 OK	81 OK	Limits =	44-130	
Decachlorobiphenyl	12.26 +0.00	13.62 +0.00	14194431	6923777	89.76	84.08			90 OK
			%Recovery =		90 OK	84 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	855.90	774.08	114	103	103
Aroclor 1016 {1}	4.24 +0.00	4.62 +0.00	3103395m	1369979m	864.70	745.32	116	99.6	
Aroclor 1016 {2}	4.74 +0.00	4.96 +0.00	2507113m	2403699m	836.80	987.32	112	132	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	8134329m	2092095m	822.39	697.54	110	93.3	
Aroclor 1016 {4}	5.21 +0.00	5.92 +0.00	4515981m	1545203m	910.24	703.95	122	94.1	
Aroclor 1016 {5}	5.50 0.00	6.12 +0.01	4375868m	1587381m	845.35	736.25	113	98.4	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,081	1,125	145	150	145
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	10248228	2212390m	1,040	1,003	139	134	
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	8354044	4110945m	1,030	1,088	138	145	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	8612185	4513412m	1,046	1,251	140	167	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	20975399	9768068m	1,116	1,131	149	151	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	16650665	6437149m	1,174	1,153	157	154	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.1926 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
#: Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Inj Date : 11-SEP-2015 22:04
Sample Info: K1509528-006DMS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	16718550	6363109	94.4	80.5		100.00
Aroclor 1016	4.240	4.620	3103395	1369979	865	745	80.00- 120.00	100.00(MH)
	4.743	4.957	2507113	2403699	837	987	62.72- 94.08	80.79(MH)
	4.937	5.590	8134329	2092095	822	698	184.36- 276.53	262.11(MH)
	5.210	5.923	4515981	1545203	910	704	95.63- 143.44	145.52(MH)
	5.500	6.120	4375868	1587381	845	736	100.19- 150.28	141.00(MH)
		Average of Peak Amounts =			856	774		
Aroclor 1260	7.077	7.833	10248228	2212390	1040	1000	80.00- 120.00	100.00(H)
	8.097	9.270	8354044	4110945	1030	1090	71.27- 106.90	81.52(H)
	8.647	9.720	8612185	4513412	1050	1250	72.68- 109.02	84.04(H)
	9.110	10.397	20975399	9768068	1120	1130	169.11- 253.66	204.67(H)
	9.897	11.033	16650665	6437149	1170	1150	131.16- 196.75	162.47(H)
		Average of Peak Amounts =			1080	1120		
Decachlorobiphenyl	12.263	13.623	14194431	6923777	89.8	84.1		100.00
Aroclors, Total	0.000	0.000	17495441	7208064	1940	1900		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

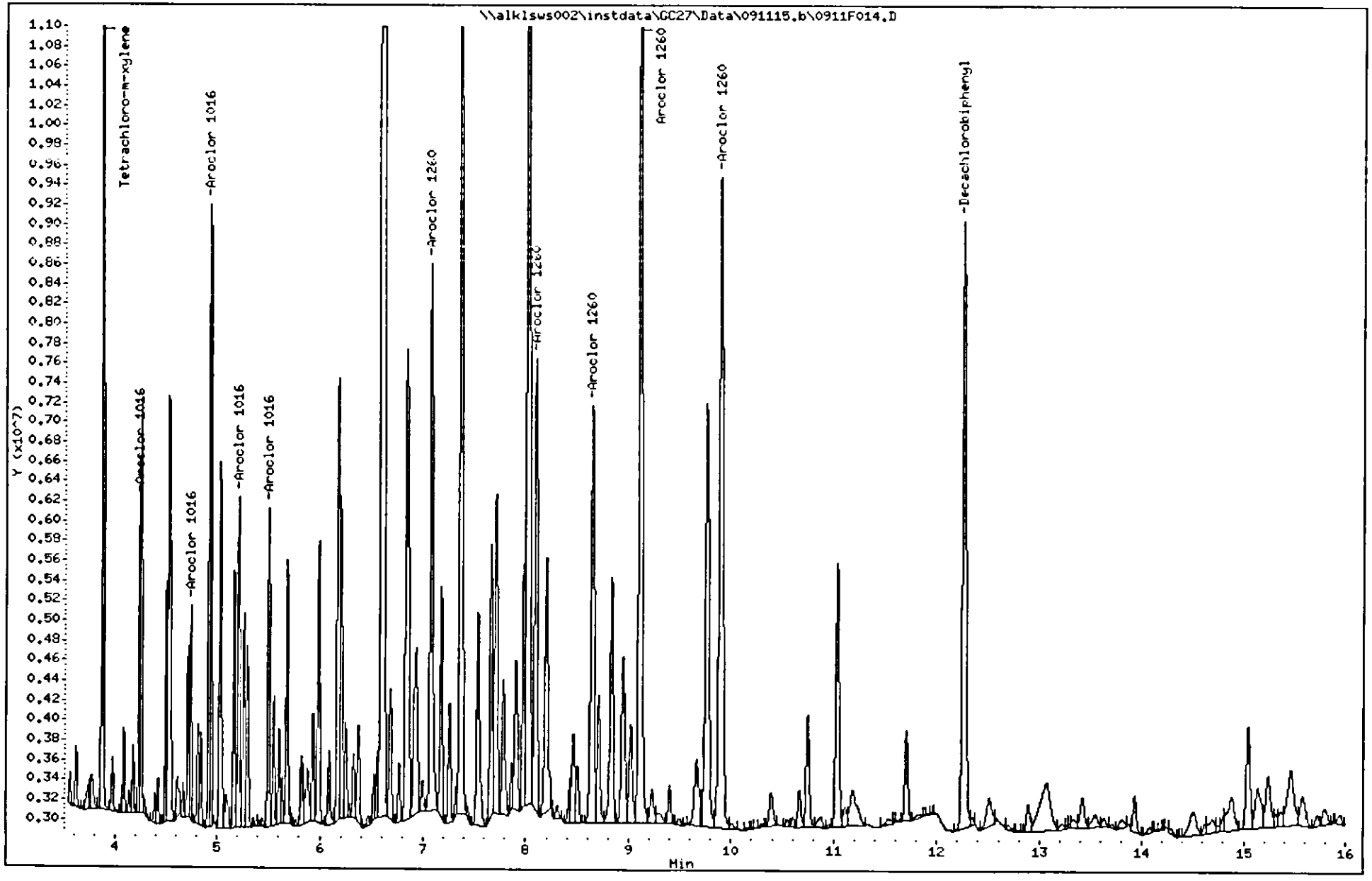
Data File: \\alklsws002\instdata\GC27\Data\091115,b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509528-006DHS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

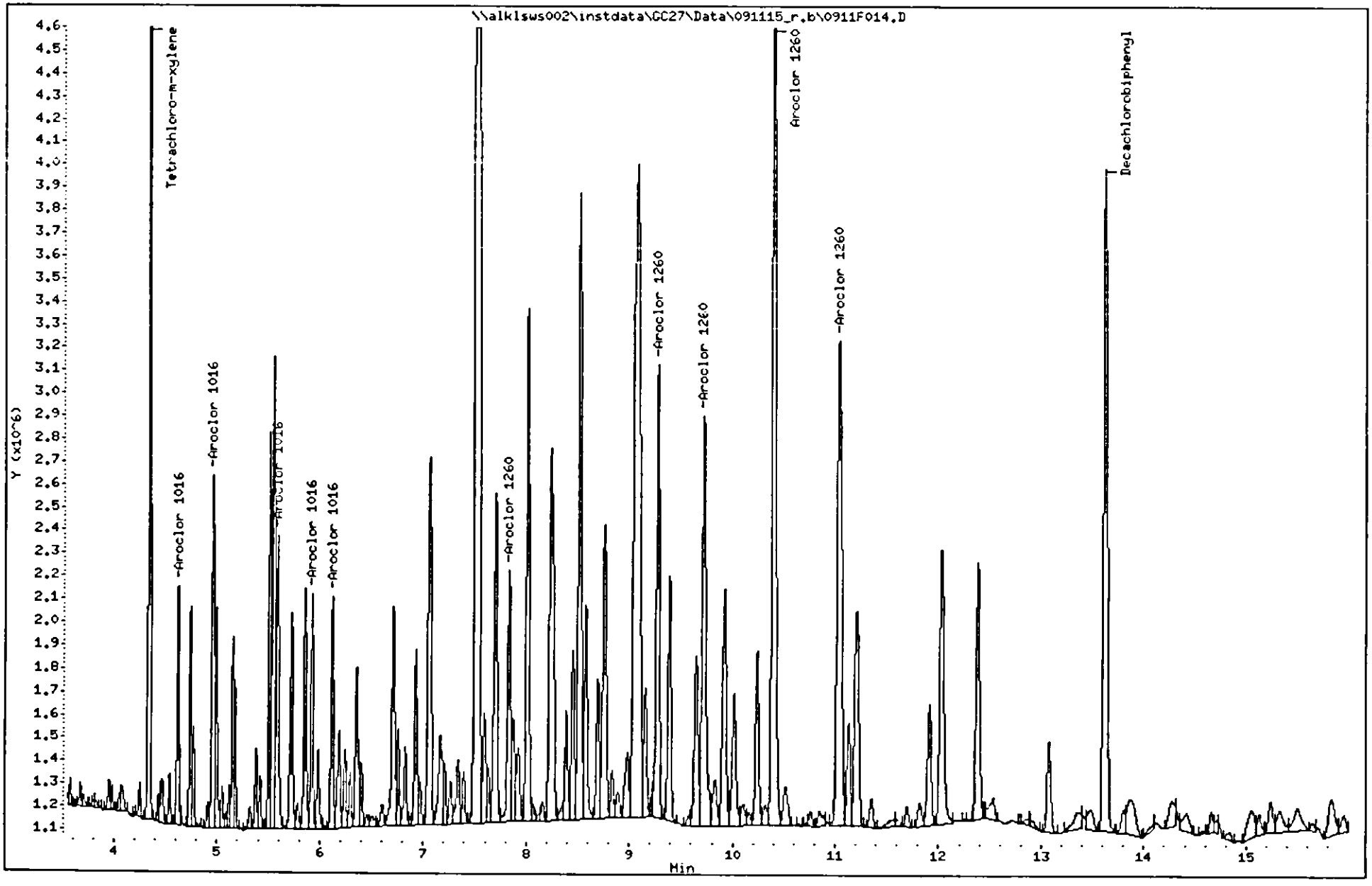


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509528-006DHS

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

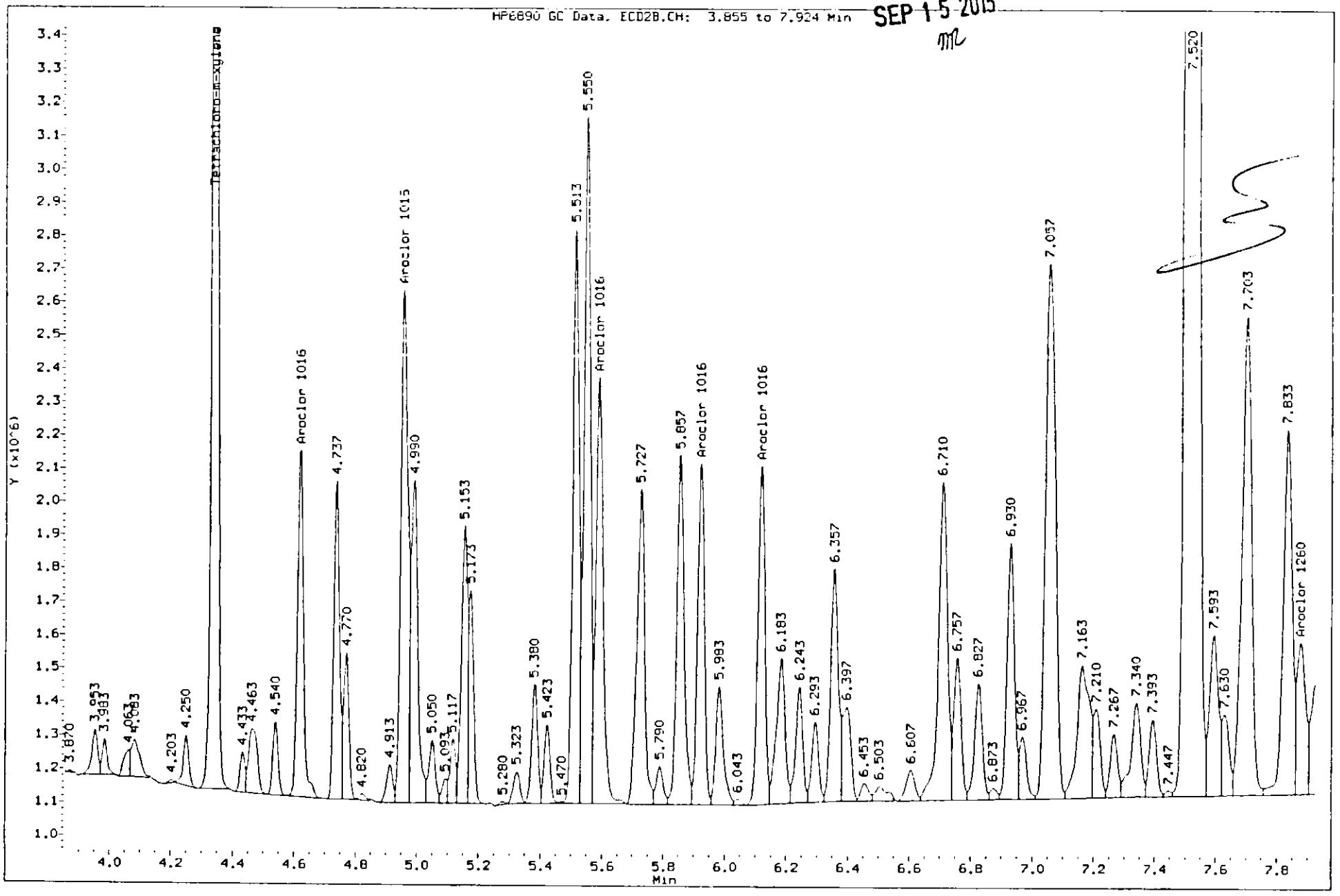
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

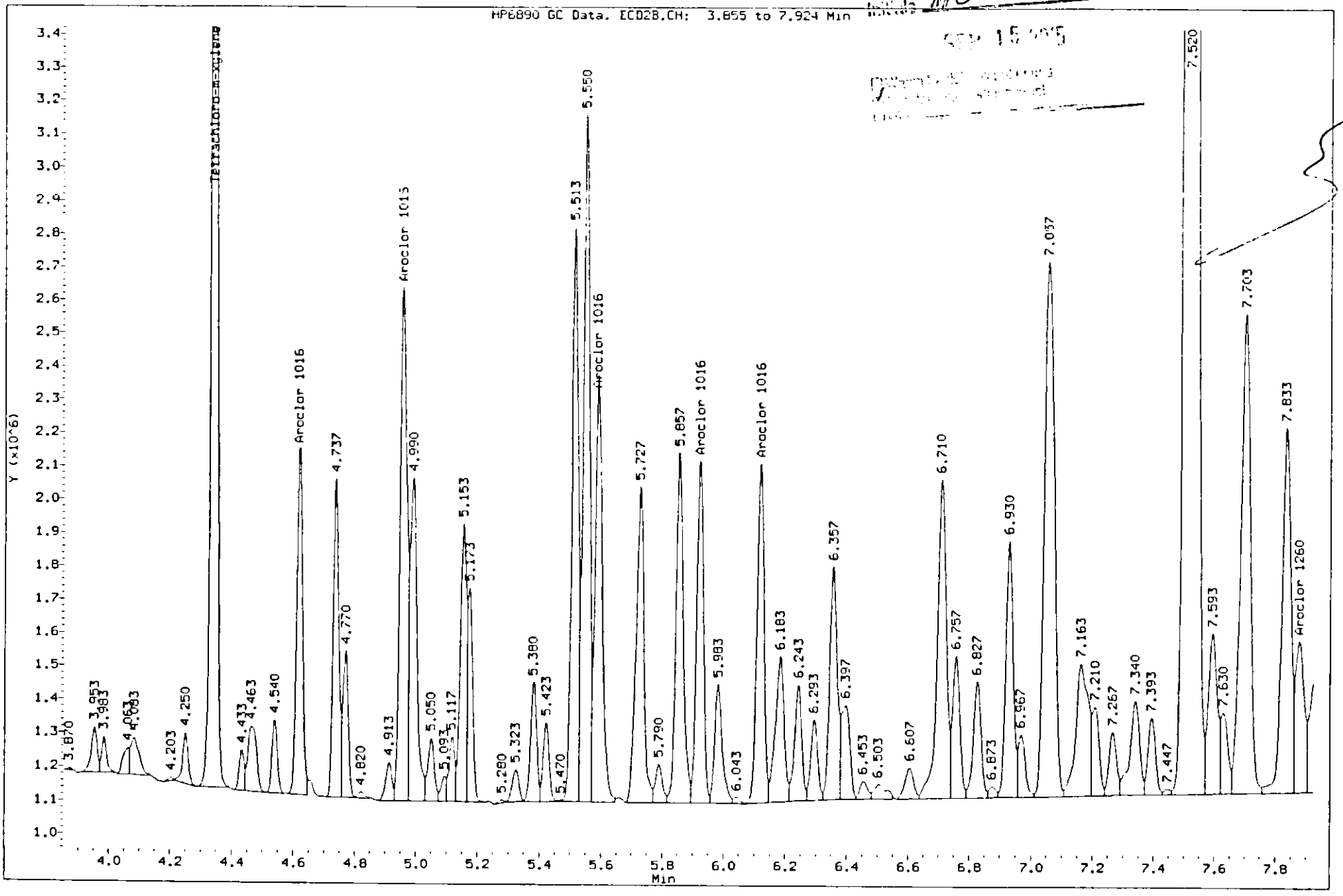
Before

SEP 15 2015



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

After

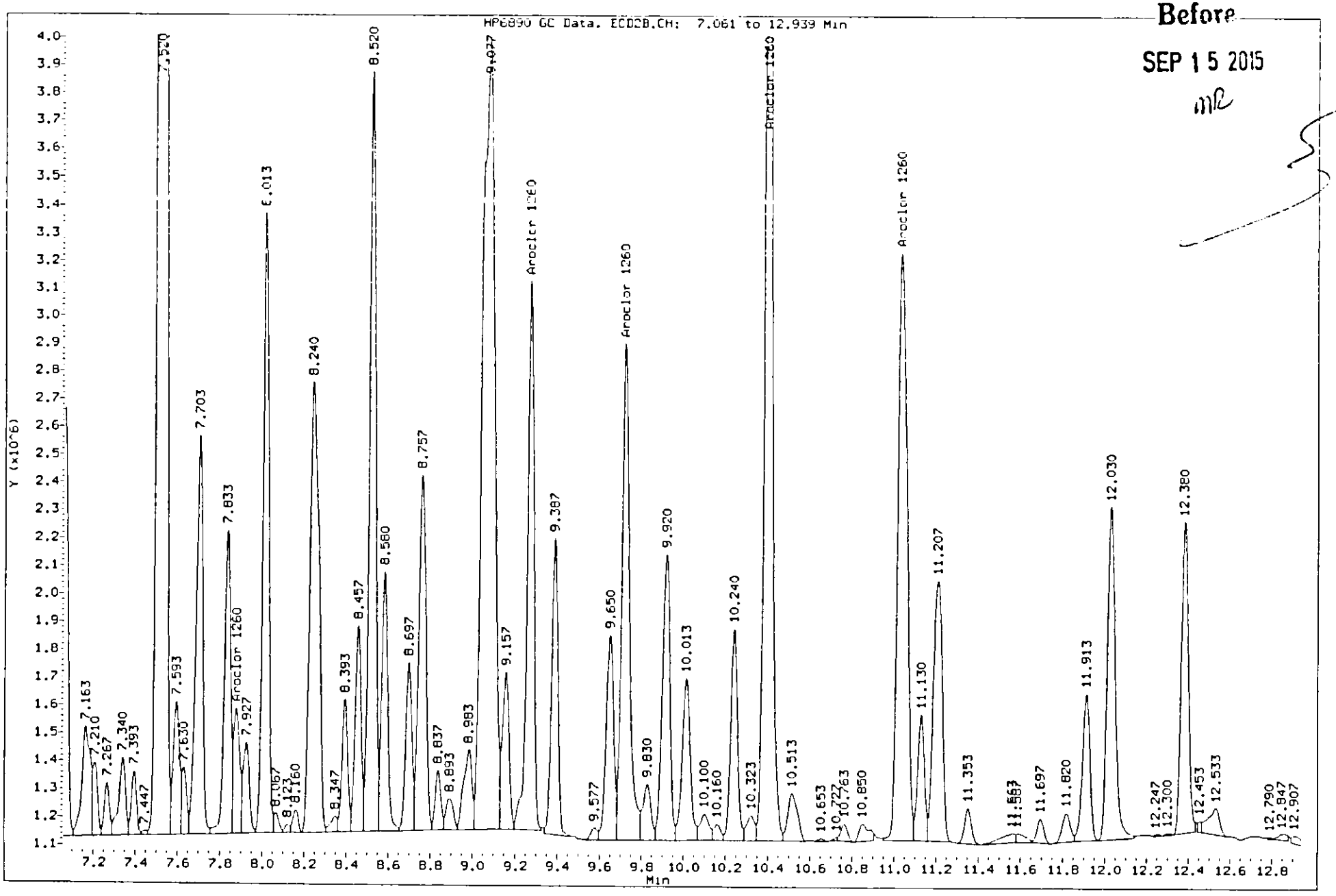


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

Before

SEP 15 2015

mc



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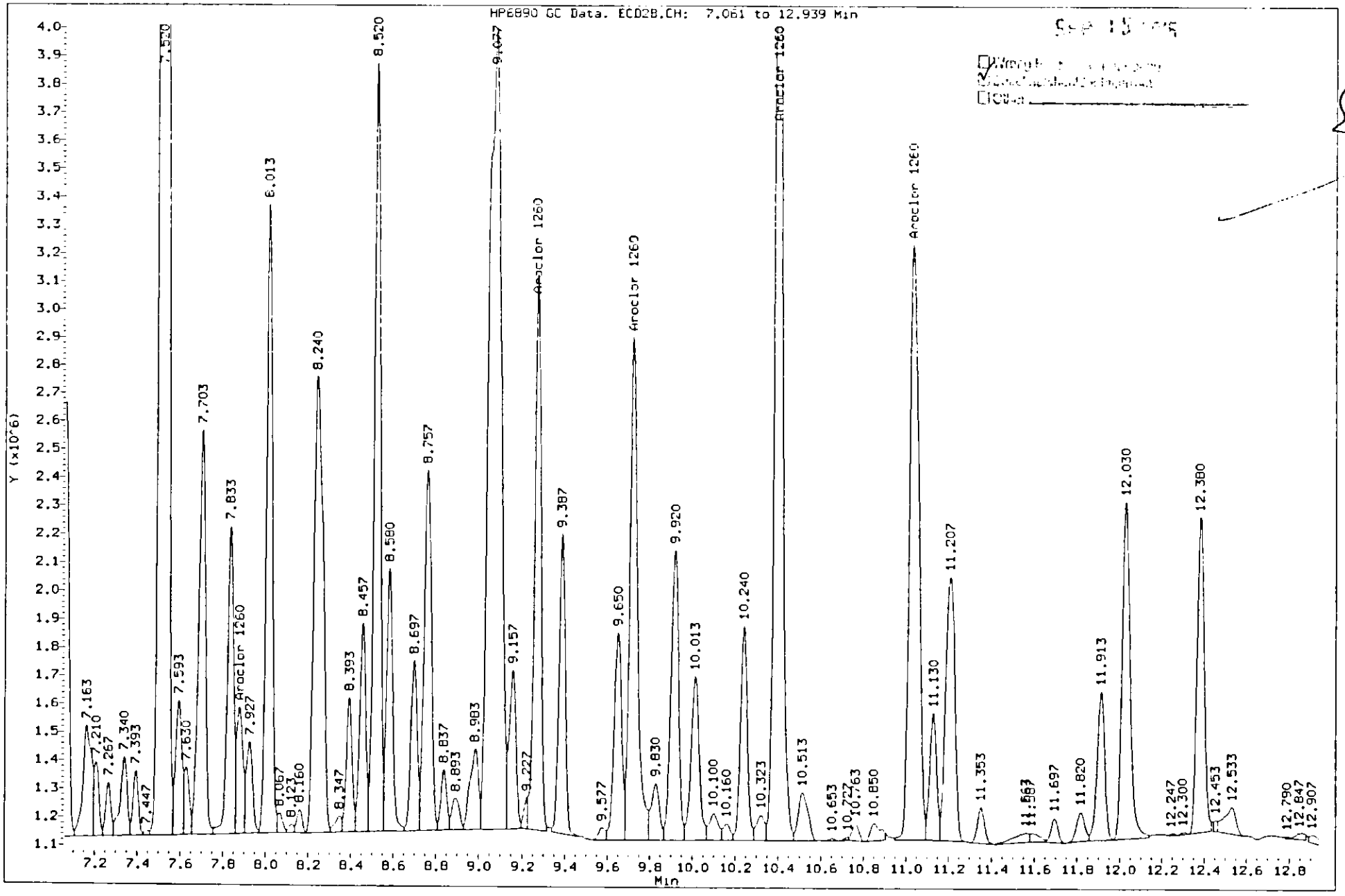
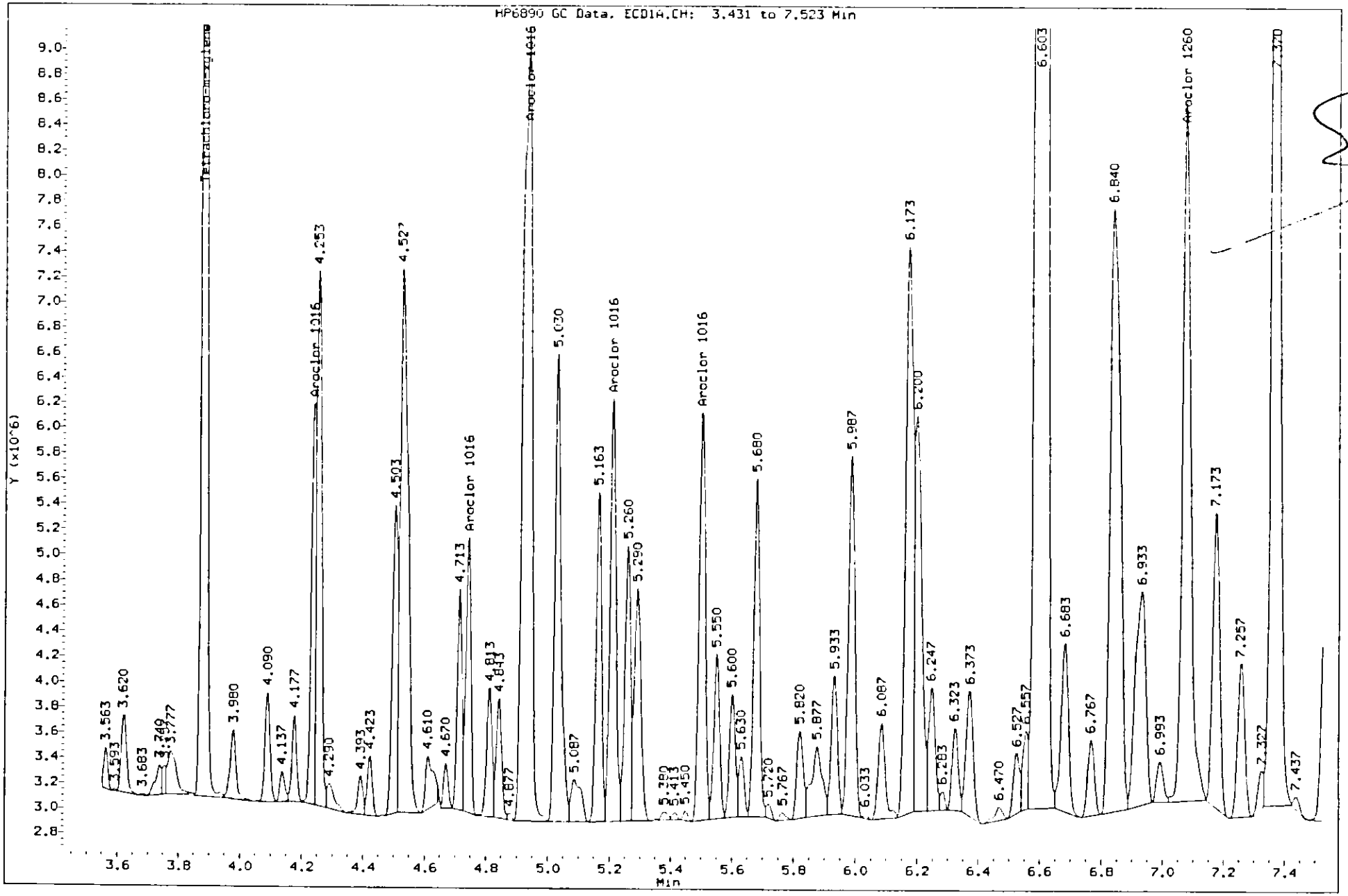
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

After
Initials

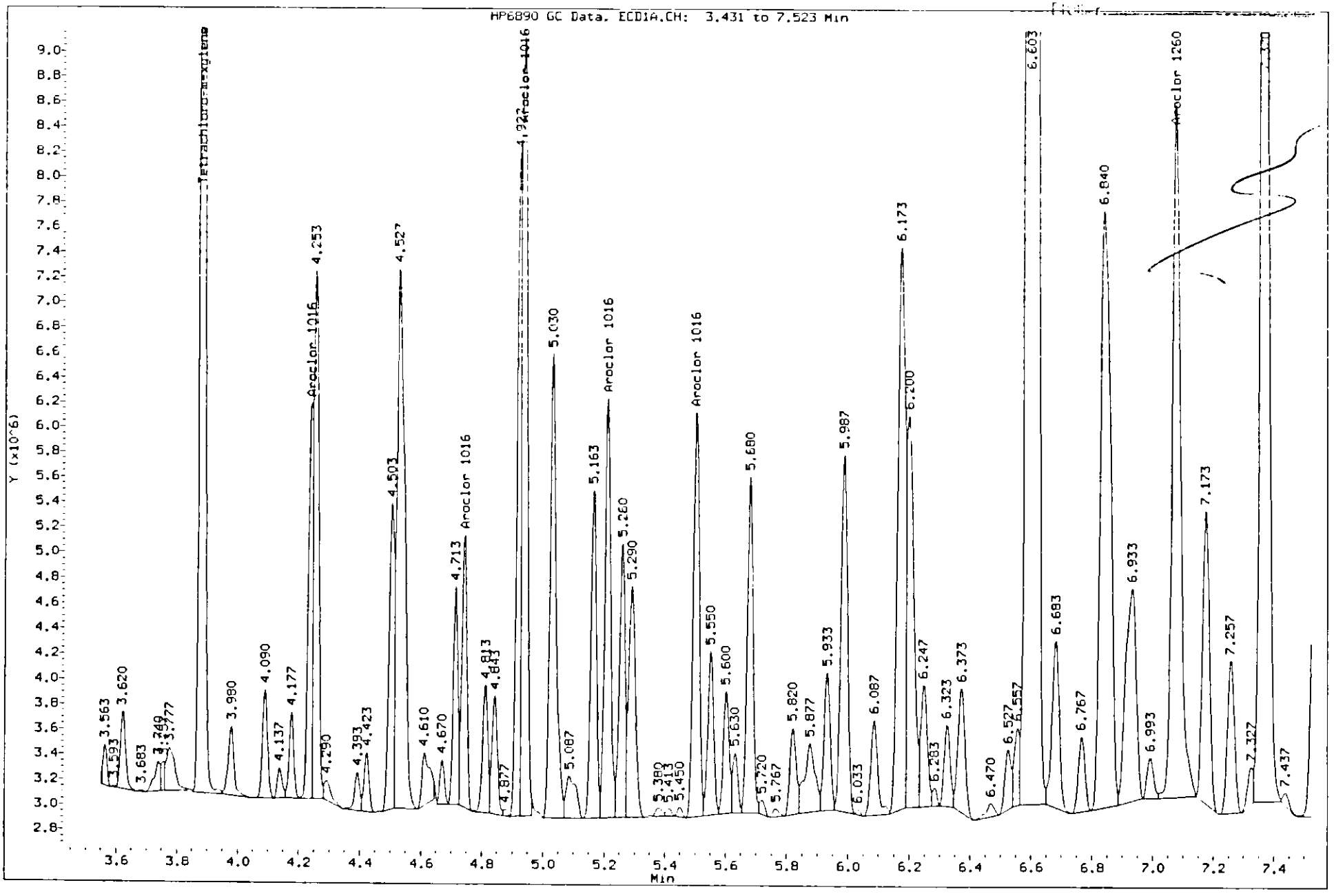


SEP 1 5 2015

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCW ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	nR

Primary Review: mR 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: AR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:57:13
u:\Stealth\Crystal rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465236	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	16426260	6005261	92.79CCV	76.35			76 OK
				%Recovery =	93 OK	76 OK	Limits =	44-130	
Decachlorobiphenyl	12.26 0.00	13.62 0.00	13900789	6930730	87.91	84.16			88 OK
				%Recovery =	88 OK	84 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	766.08	650.12	153	130	130
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	3062176	1286346	853.22	699.82	171	140	
Aroclor 1016 {2}	4.74 0.00	4.95 0.00	2330028	1600473	777.69	657.39	156	131	
Aroclor 1016 {3}	4.93 0.00	5.59 0.00	7196195	1843956	727.55	614.81	146	123	
Aroclor 1016 {4}	5.21 0.00	5.92 0.00	3620850	1392440	729.82	634.37	146	127	
Aroclor 1016 {5}	5.50 0.00	6.11 -0.01	3841457	1388962	742.11	644.23	148	129	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	865.73	854.55	173	171	171
Aroclor 1260 {1}	7.07 0.00	7.83 0.00	7077147	1632040m	718.45	739.85	144	148	
Aroclor 1260 {2}	8.09 0.00	9.26 -0.01	7418100	3415129m	914.25	903.51	183	181	
Aroclor 1260 {3}	8.64 0.00	9.72 0.00	7348701	3099870m	892.81	858.97	179	172	
Aroclor 1260 {4}	9.11 0.00	10.39 0.00	16888430	7764795m	898.38	899.28	180	180	
Aroclor 1260 {5}	9.89 0.00	11.03 0.00	12835756	4865586m	904.77	871.14	181	174	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Inj Date : 12-SEP-2015 00:46
Sample Info: KWG1508618-LCS
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16426260	6005261	92.8	76.3		100.00
Aroclor 1016	4.238	4.618	3062176	1286346	853	700	60.00- 120.00	100.00(H)
	4.741	4.951	2330028	1600473	778	657	62.72- 94.08	76.09(H)
	4.934	5.588	7196195	1843956	728	615	184.36- 276.53	235.00(H)
	5.208	5.921	3620850	1392440	730	634	95.63- 143.44	118.24(H)
	5.498	6.114	3841457	1388962	742	644	100.19- 150.28	125.45(H)
		Average of Peak Amounts =			766	650		
Aroclor 1260	7.074	7.831	7077147	1632040	718	740	80.00- 120.00	100.00(H)
	8.091	9.264	7418100	3415129	914	904	71.27- 106.90	104.82(H)
	8.644	9.718	7348701	3099870	893	859	72.68- 109.02	103.84(H)
	9.108	10.391	16888430	7764795	898	899	169.11- 253.66	238.63(H)
	9.894	11.028	12835756	4865586	905	871	131.16- 196.75	181.37(H)
		Average of Peak Amounts =			866	855		
Decachlorobiphenyl	12.261	13.621	13900789	6930730	87.9	84.2		100.00
Aroclors, Total	0.000	0.000	14323768	5657919	1630	1500		0.00

QC Flag Legend

H - Operator selected an alternate compound hit.

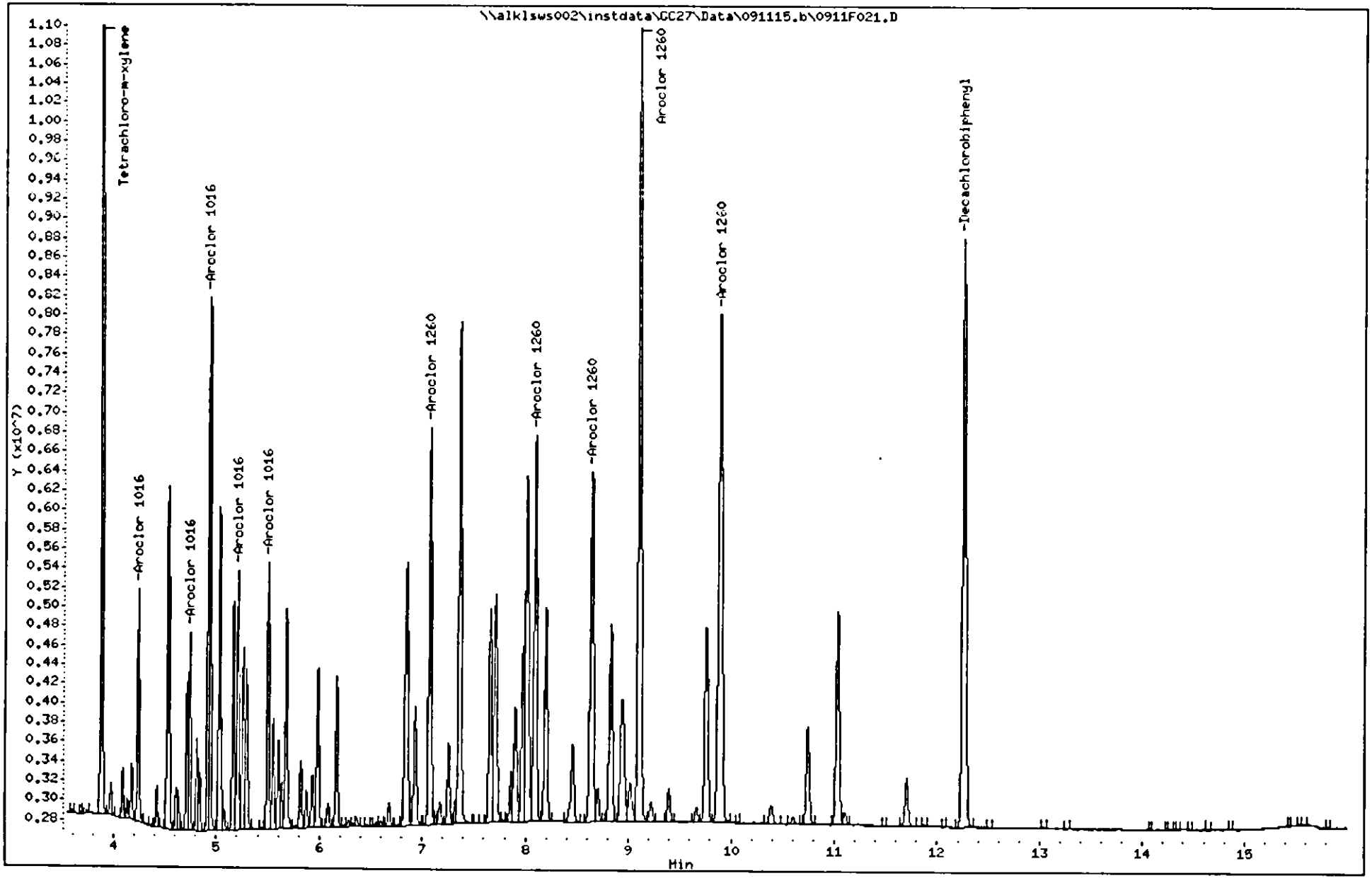
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWG1508618-LCS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

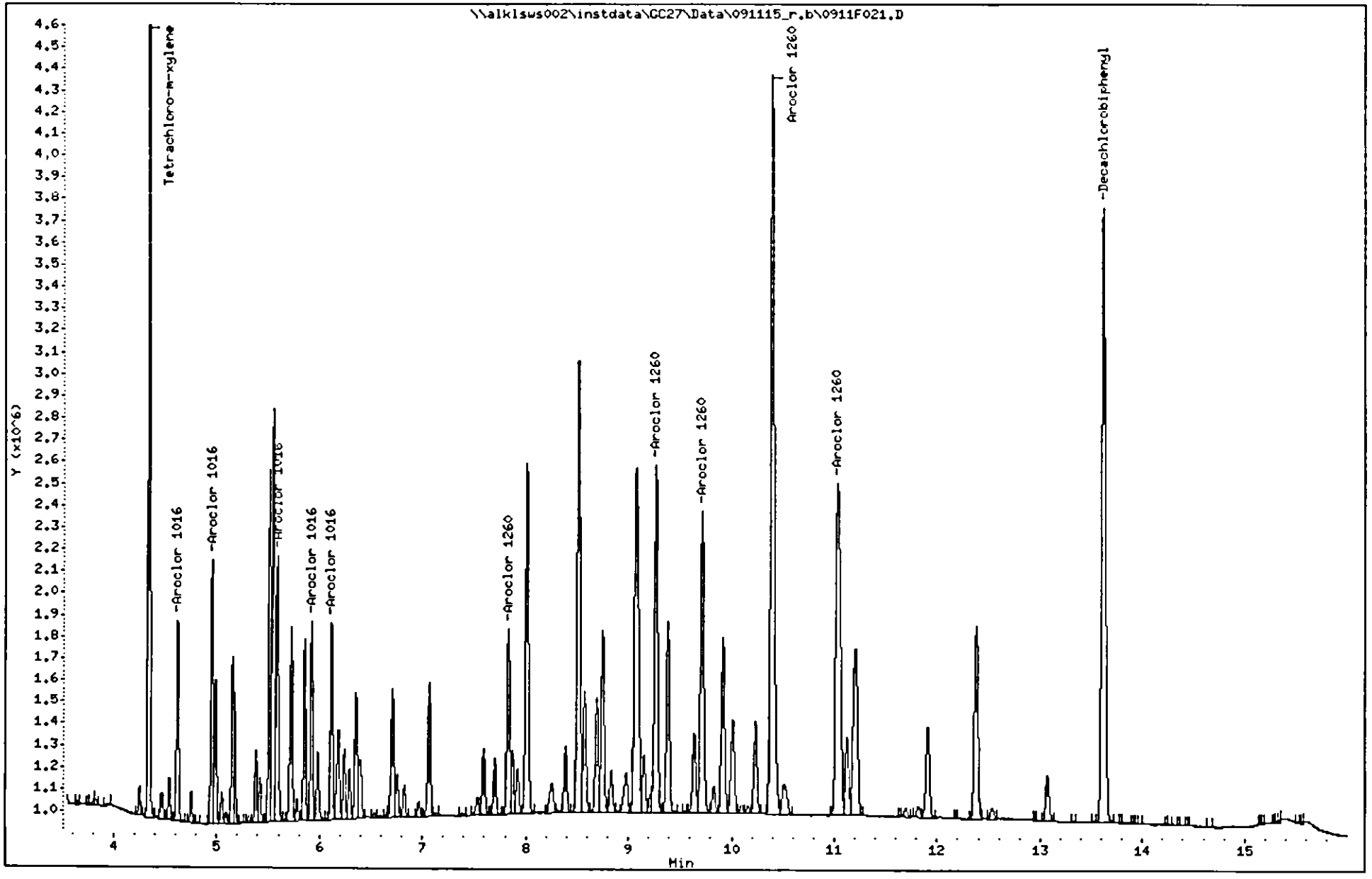
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWG1508618-LCS

Instrument: GC27.i

Operator: SMURRAY
Column phase: DB-XLB
Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\091115.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\091115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0911F001	PCB_REG	PRIMER
2	IB	100	0911F002	PCB_REG	PRIMER
3	CCV	1	0911F003	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
4	IB	2	0911F004	PCB_REG	IB
5	SMPL	3	0911F005	PCB_REG	K1509342-003 RERUN
6	SMPL	4	0911F006	PCB_REG	K1509364-001
7	SMPL	5	0911F007	PCB_REG	K1509528-001
8	SMPL	6	0911F008	PCB_REG	K1509528-002
9	SMPL	7	0911F009	PCB_REG	K1509528-003
10	SMPL	8	0911F010	PCB_REG	K1509528-004
11	SMPL	9	0911F011	PCB_REG	K1509528-005
12	SMPL	10	0911F012	PCB_REG	K1509528-006
13	MS	11	0911F013	PCB_REG	K1509528-006MS
14	DMS	12	0911F014	PCB_REG	K1509528-006DMS
15	CCV	1	0911F015	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
16	IB	2	0911F016	PCB_REG	IB
17	SMPL	13	0911F017	PCB_REG	K1509528-007
18	SMPL	14	0911F018	PCB_REG	K1509667-001 see 10x a/S
19	SMPL	15	0911F019	PCB_REG	K1509667-002
20	SMPL	16	0911F020	PCB_REG	K1509732-001
21	LCS	17	0911F021	PCB_REG	KWG1508618-LCS
22	MB	18	0911F022	PCB_REG	KWG1508618-MB
23	SMPL	19	0911F023	PCB_REG	K1509920-001
24	SMPL	20	0911F024	PCB_REG	K1509920-002
25	SMPL	21	0911F025	PCB_REG	K1509920-003
26	MS	22	0911F026	PCB_REG	K1509920-003MS
27	DMS	23	0911F027	PCB_REG	K1509920-003DMS
28	LCS	24	0911F028	PCB_REG	KWG1508674-LCS
29	MB	25	0911F029	PCB_REG	KWG1508674-MB
30	CCV	1	0911F030	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
31	IB	2	0911F031	PCB_REG	IB
32					

Run # 462046
Col # 13624
KWG 1508799

Last Modified: Fri Sep 11 16:58:38 2015

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D	**Date Acquired:**	09/11/2015 17:47
Lab ID:	KWG1508799-1	**Date Quantitated:**	09/15/2015 08:10
RunType:	CCV	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCN dl

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D
Lab ID: KWG1508799-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 17:47
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dud

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D			**Vial:**	1
Acqu Date:	09/11/2015 17:47	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9471331	4357293	53.50	55.40			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8199255	4338697	51.85	52.69			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	451.92	472.93			
Aroclor 1016 {1}	4.24	4.62	1755801	910290	489.22	495.23			
Aroclor 1016 {2}	4.74	4.95	1405809	1201250	469.22	493.41			
Aroclor 1016 {3}	4.94	5.59	4402966	1332846	445.15	444.40			
Aroclor 1016 {4}	5.21	5.92	2123445	1026903	428.00	467.83			
Aroclor 1016 {5}	5.50	6.12	2215642	999908	428.03	463.78			
Aroclor 1260			0	0	481.93	518.70			
Aroclor 1260 {1}	7.08	7.83	4340588	1091720m	440.64	494.91			
Aroclor 1260 {2}	8.10	9.27	3893169	1983004m	479.82	524.63			
Aroclor 1260 {3}	8.65	9.72	4007207	1874613m	486.85	519.45			
Aroclor 1260 {4}	9.11	10.39	9290552	4515064m	494.21	522.91			
Aroclor 1260 {5}	9.90	11.03	7208391	2969057m	508.11	531.58			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D
Inj Date : 11-SEP-2015 17:47
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	9471331	4357293	53.5	55.4		100.00
Aroclor 1016	4.239	4.619	1755801	910290	489	495	60.00- 120.00	100.00
	4.742	4.952	1405809	1201250	469	493	62.72- 94.08	80.07
	4.935	5.589	4402966	1332846	445	444	184.36- 276.53	250.77
	5.209	5.922	2123445	1026903	428	468	95.63- 143.44	120.94
	5.502	6.115	2215642	999908	428	464	100.19- 150.28	126.19
		Average of Peak Amounts =			452	473		
Aroclor 1260	7.079	7.832	4340588	1091720	441	495	60.00- 120.00	100.00
	8.095	9.269	3893169	1983004	480	525	71.27- 106.90	89.69
	8.645	9.715	4007207	1874613	487	519	72.68- 109.02	92.32
	9.109	10.392	9290552	4515064	494	523	169.11- 253.66	214.04
	9.895	11.029	7208391	2969057	508	532	131.16- 196.75	166.07
		Average of Peak Amounts =			482	515		
Decachlorobiphenyl	12.262	13.622	8199255	4338697	51.9	52.7		100.00

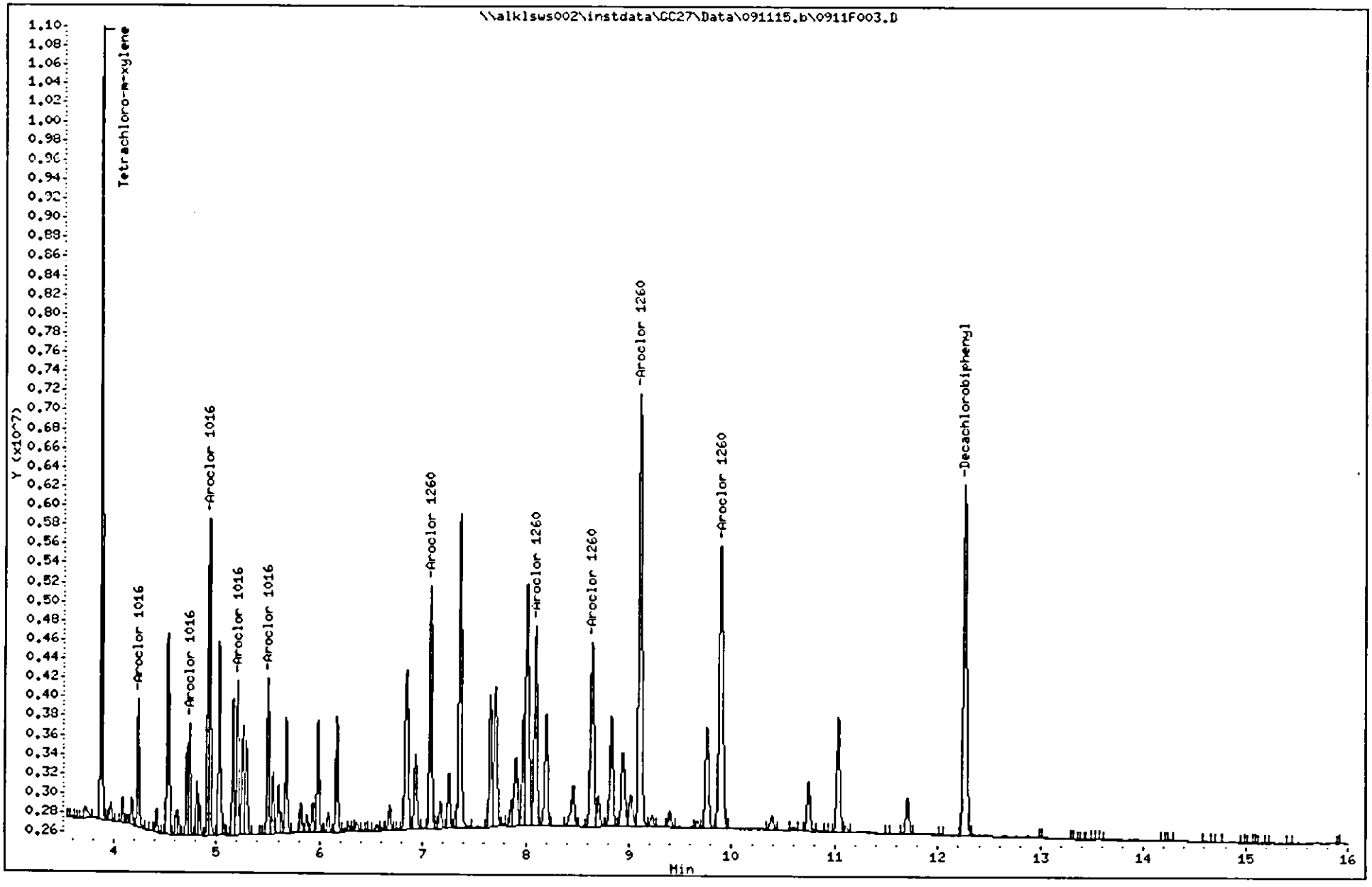
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



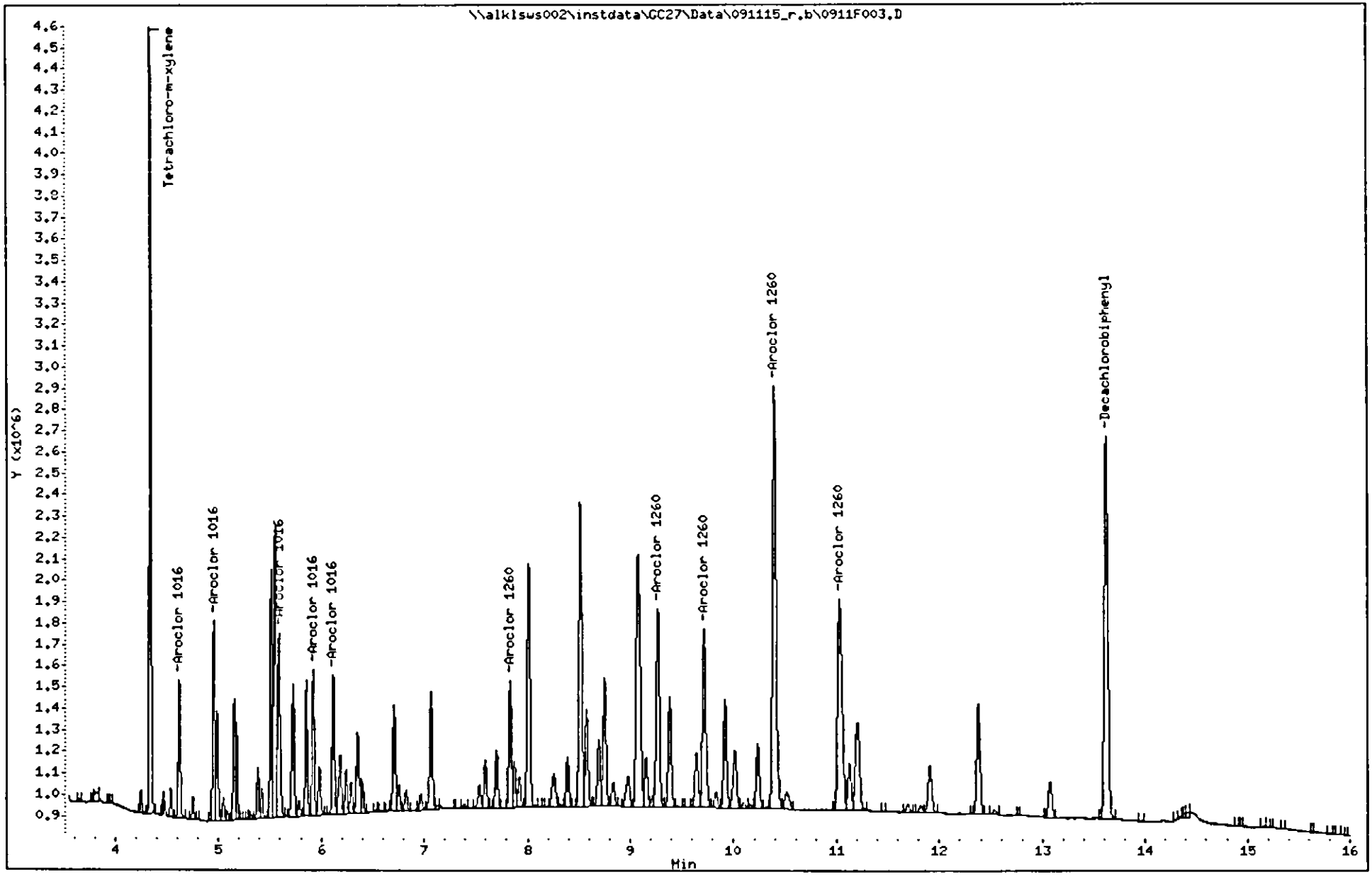
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F004.D
Lab ID: KWG1508799-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 18:10
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/15/15

Secondary Review: [illegible]

Printed: 09/15/2015 08:54:30
u \Stealth\Crystal rpt\except2 rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F004.D	**Date Acquired:**	09/11/2015 18:10
Lab ID:	KWG1508799-2	**Date Quantitated:**	09/15/2015 08:11
RunType:	IB	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Qual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		16351	0	0.0920	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	12.25	13.61	19398	5110	0.1230	0.0623			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	1.65			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}		4.98	0	4853	0.0000	1.99			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}		5.96	0	3305	0.0000	1.51			
Aroclor 1016 {5}		6.11	0	3175	0.0000	1.47			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	6.49			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}		4.98	0	4853	0.0000	4.85			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}		5.47	0	16250	0.0000	10.59			
Aroclor 1232 {5}		5.96	0	3305	0.0000	4.01			
Aroclor 1242			0	0	3.40	2.64			
Aroclor 1242 {1}	4.51	4.98	8969	4853	1.50	2.67			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}	5.12	5.72	21354	5602	6.82	3.23			
Aroclor 1242 {4}	5.49	5.96	11117	3305	2.64	2.06			
Aroclor 1242 {5}	5.98		13093	0	2.65	0.0000			
Aroclor 1248			0	0	0.0000	3.21			
Aroclor 1248 {1}		4.98	0	4853	0.0000	3.90			
Aroclor 1248 {2}		5.47	0	16250	0.0000	6.30			
Aroclor 1248 {3}		5.96	0	3305	0.0000	1.11			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	6624	0.0000	1.55			
Aroclor 1254			0	0	6.28	1.39			
Aroclor 1254 {1}		6.70	0	2992	0.0000	0.8140			
Aroclor 1254 {2}	6.68	7.05	8554	6624	1.18	1.14			
Aroclor 1254 {3}	6.83	7.17	33366	2860	2.28	1.48			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}	7.74	8.76	97462	6703	15.39	2.14			
Aroclor 1260			0	0	1.67	0.0000			
Aroclor 1260 {1}	7.08		31132	0	3.16	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.11		24608	0	1.31	0.0000			
Aroclor 1260 {5}	9.89		7583	0	0.5350	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Inj Date : 11-SEP-2015 18:10
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	0.000	16351	0	0.0924	0.000		100.00
Aroclor 1016	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	1.99		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.958	0	3305	0.000	1.51		
	0.000	6.105	0	3175	0.000	1.47		
		Average of Peak Amounts =			0.000	1.66		
Aroclor 1232	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	4.86		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.468	0	16250	0.000	10.6		
	0.000	5.958	0	3305	0.000	4.01		
		Average of Peak Amounts =			0.000	6.49		
Aroclor 1242	4.511	4.975	8969	4853	1.50	2.67	60.00- 120.00	100.00(T)
	0.000	0.000					153.22- 229.83	0.00(T)
	5.115	5.718	21354	5602	6.82	3.19	37.98- 56.97	238.09(T)
	5.488	5.958	11117	3305	2.64	2.06	47.93- 71.89	123.95(T)
	5.981	0.000	13093		2.65		37.56- 56.34	145.98(T)
		Average of Peak Amounts =			3.40	2.64		
Aroclor 1248	0.000	4.975	0	4853	0.000	3.89		
	0.000	5.468	0	16250	0.000	6.30		
	0.000	5.958	0	3305	0.000	1.11		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.052	0	6624	0.000	1.55		
		Average of Peak Amounts =			0.000	3.21		
Aroclor 1254	0.000	6.695		2992		0.814	60.00- 120.00	100.00(T)
	6.675	7.052	8554	6624	1.18	1.14	1017.66-1526.49	0.00(T)
	6.831	7.168	33366	2860	2.28	1.46	9646.23-14469.35	0.00(T)
	0.000	0.000					50.19- 75.29	0.00(T)
	7.735	8.755	97462	6703	15.4	2.14	281.12- 421.67	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			6.29	1.39		
Aroclor 1260	7.075	0.000	31132	0	3.16	0.000	60.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.105	0.000	24608	0	1.31	0.000	169.11- 253.66	79.04(T)
	9.891	0.000	7583	0	0.535	0.000	131.16- 196.75	24.36(T)
		Average of Peak Amounts =			1.67	0.000		
Decachlorobiphenyl	12.251	13.612	19398	5110	0.123	0.0621		100.00
Aroclors, Total	0.000	0.000	81201	29053	11.4	15.4		0.00

QC Flag Legend

T - Target compound detected outside RT window.

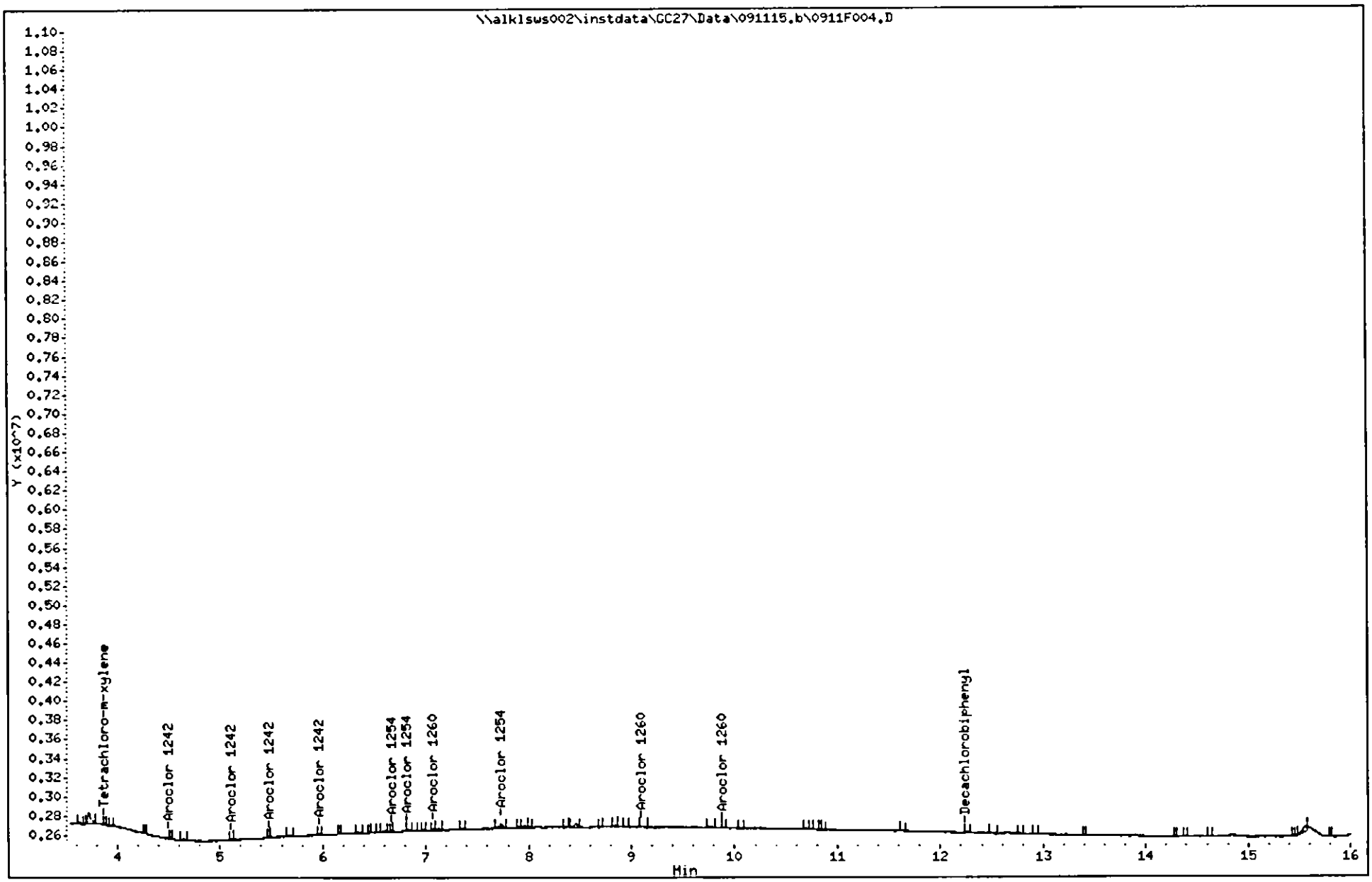
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



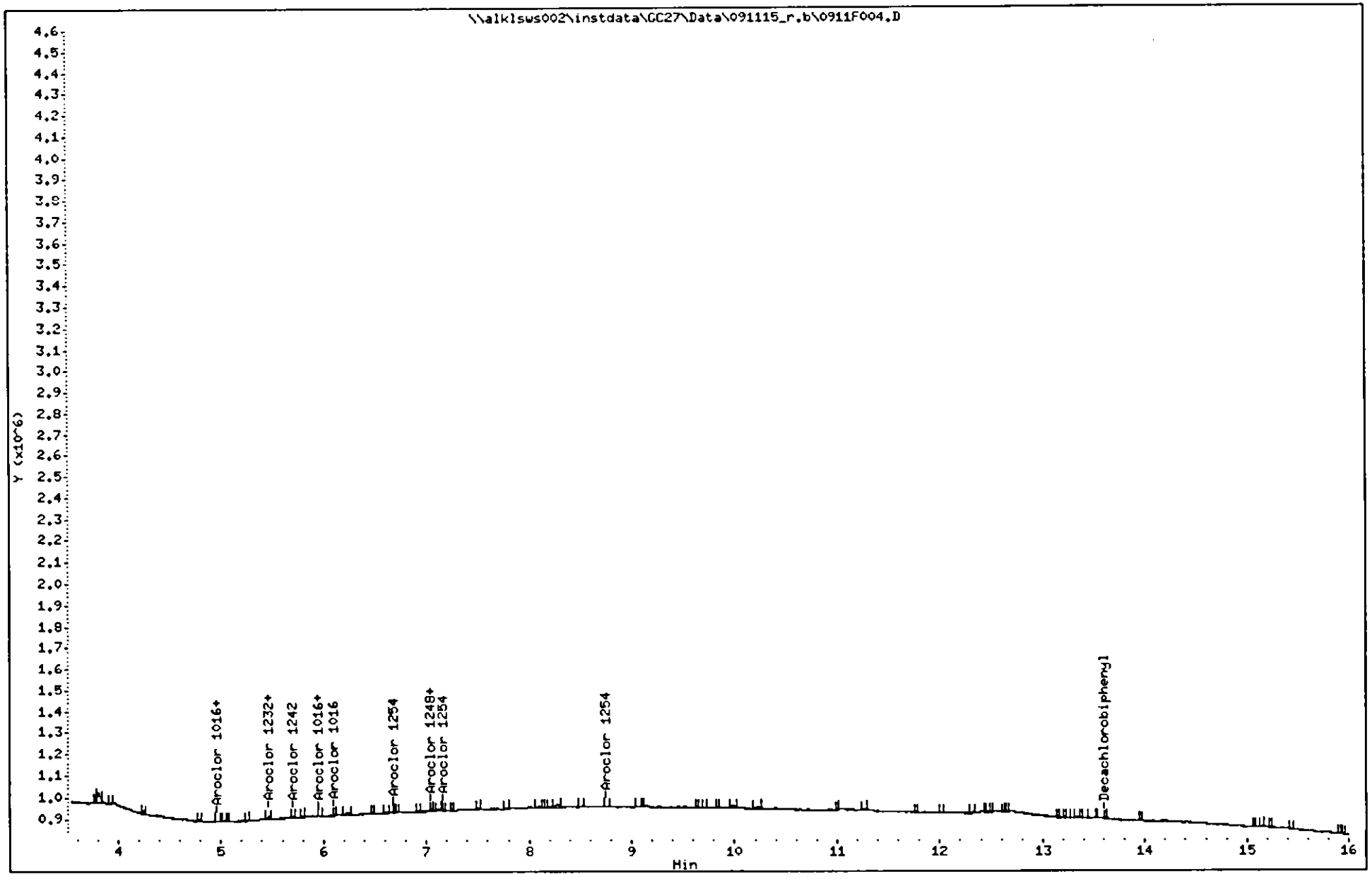
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D
Lab ID: KWG1508799-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:27
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV OK

Primary Review: MR 09/15/15

Secondary Review: _____

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D	**Date Acquired:**	09/11/2015 22:27
Lab ID:	KWG1508799-3	**Date Quantitated:**	09/15/2015 08:12
RunType:	CCV	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JQ Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D			**Vial:**	1
Acqu Date:	09/11/2015 22:27	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	10883119	3995108	61.48	50.79				NA
				%Recovery =	NA	NA	Limits =	44-130		
Decachlorobiphenyl	12.27	13.63	9149411	4343484	57.86	52.74				NA
				%Recovery =	NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	516.91	434.58			
Aroclor 1016 {1}	4.24	4.62	1984741	819658	553.01	445.92			
Aroclor 1016 {2}	4.74	4.96	1588603	1095769	530.23	450.09			
Aroclor 1016 {3}	4.94	5.59	5018614	1254774	507.39	418.36			
Aroclor 1016 {4}	5.21	5.92	2490088	946320	501.90	431.12			
Aroclor 1016 {5}	5.50	6.12	2546892	921472	492.02	427.40			
Aroclor 1260			0	0	518.80	559.29			
Aroclor 1260 {1}	7.08	7.83	4977981	1128798m	505.35	511.72			
Aroclor 1260 {2}	8.09	9.27	4215859	2037645m	519.59	539.08			
Aroclor 1260 {3}	8.65	9.72	4239469	2458022m	515.06	681.12			
Aroclor 1260 {4}	9.11	10.40	9703509	4572608m	516.18	529.58			
Aroclor 1260 {5}	9.90	11.03	7629749	2985373m	537.81	534.59			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D
Inj Date : 11-SEP-2015 22:27
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10883119	3995108	61.5	50.8		100.00
Aroclor 1016	4.239	4.619	1984741	819658	553	446	60.00- 120.00	100.00
	4.742	4.955	1588603	1095769	530	450	62.72- 94.08	80.04
	4.935	5.589	5018614	1254774	507	418	184.36- 276.53	252.86
	5.209	5.922	2490088	946320	502	431	95.63- 143.44	125.46
	5.502	6.119	2546892	921472	492	427	100.19- 150.28	128.32
		Average of Peak Amounts =			517	434		
Aroclor 1260	7.075	7.832	4977981	1128798	505	512	60.00- 120.00	100.00
	8.092	9.269	4215859	2037645	520	539	71.27- 106.90	84.69
	8.645	9.719	4239469	2458022	515	681	72.68- 109.02	85.16
	9.109	10.395	9703509	4572608	516	530	169.11- 253.66	194.93
	9.895	11.032	7629749	2985373	538	535	131.16- 196.75	153.27
		Average of Peak Amounts =			519	559		
Decachlorobiphenyl	12.265	13.625	9149411	4343484	57.9	52.7		100.00

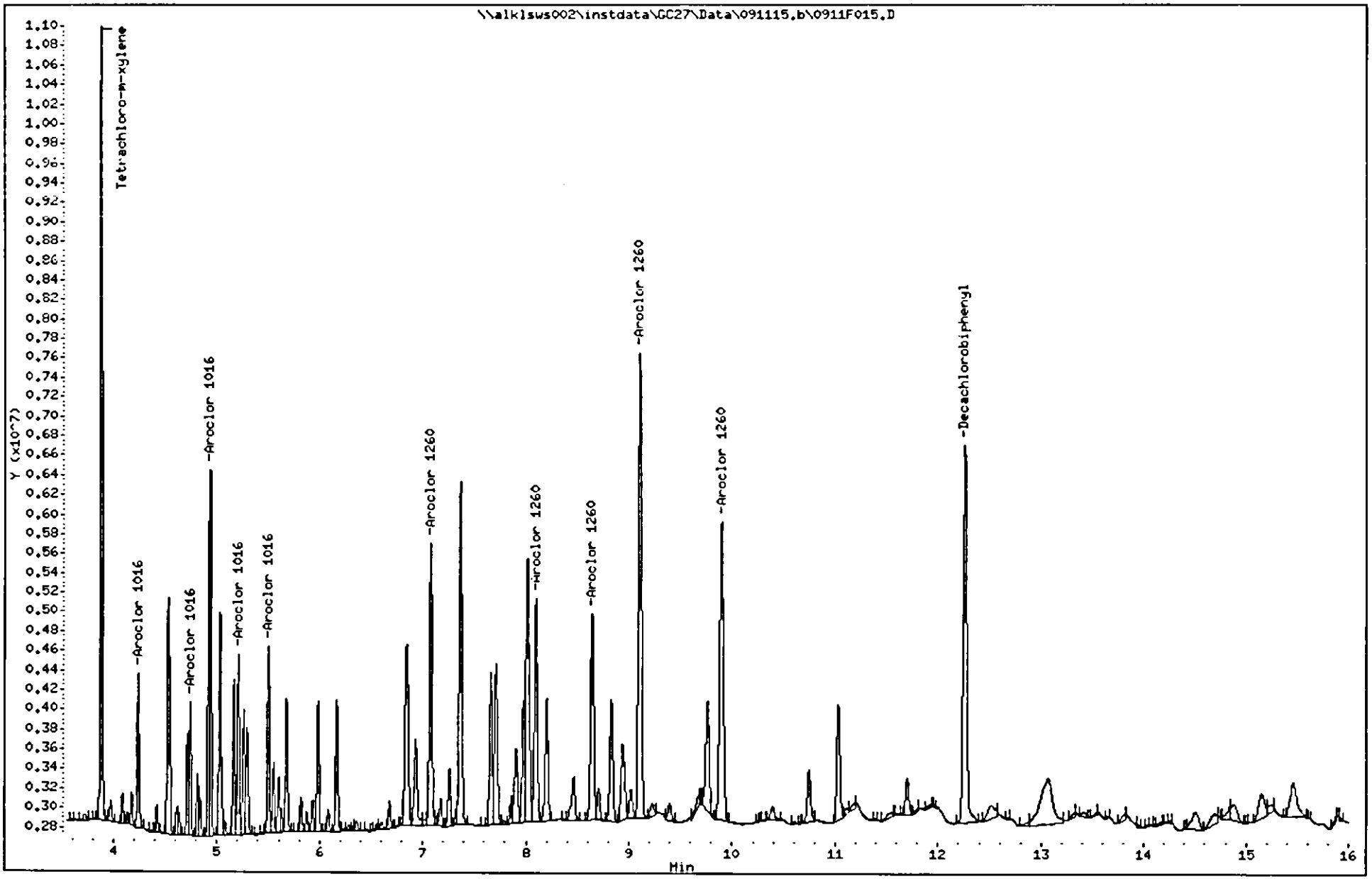
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



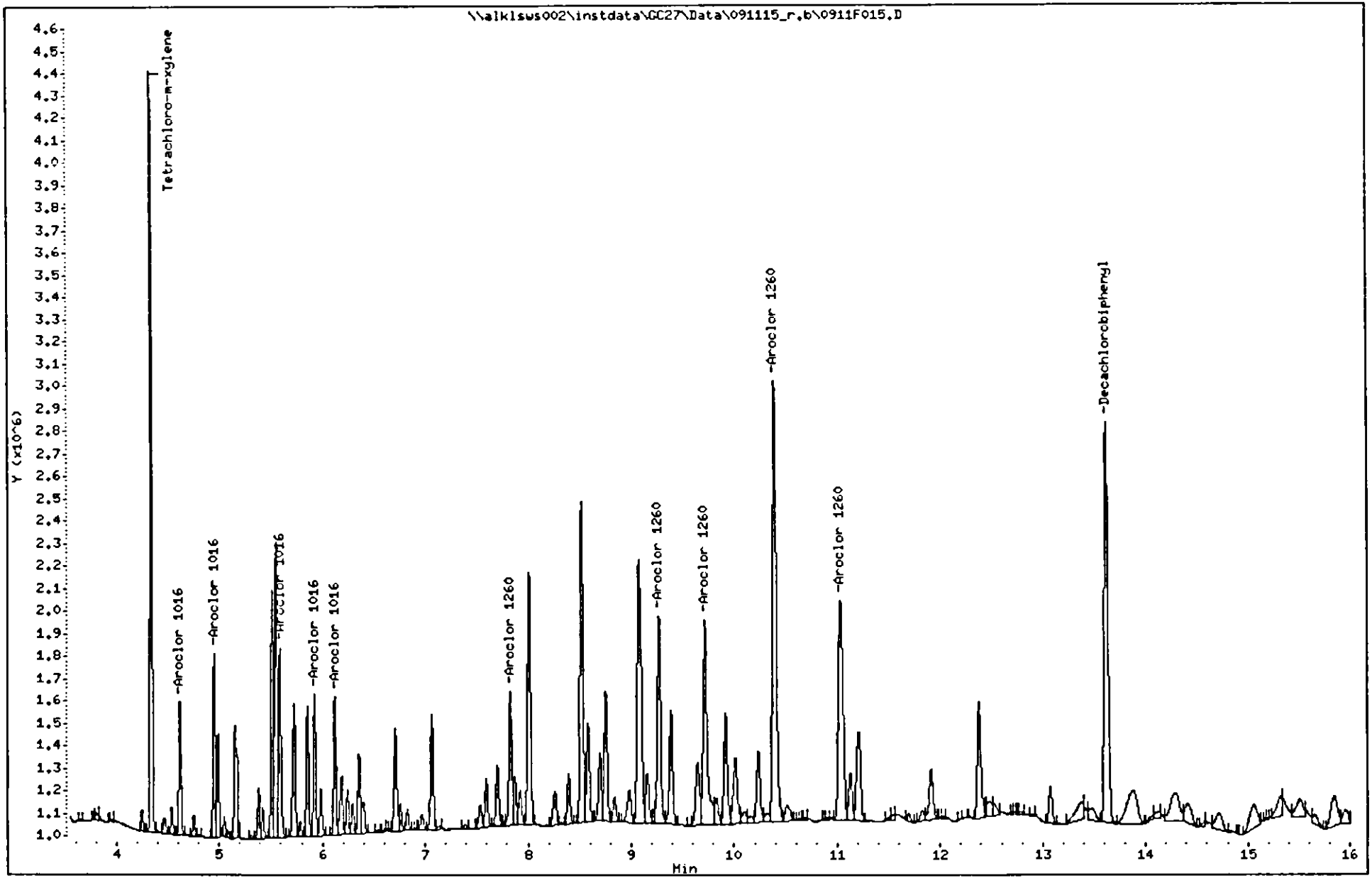
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F016.D	**Date Acquired:**	09/11/2015 22:50
Lab ID:	KWG1508799-4	**Date Quantitated:**	09/15/2015 08:11
RunType:	IB	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCV ok

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F016.D
Lab ID: KWG1508799-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:50
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: mR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		21440	0	0.1210	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	12.26	13.62	11870	46296	0.0750	0.5623			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	3.51	0.0000			
Aroclor 1016 {1}	4.22		20035	0	5.58	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}	5.25		12158	0	2.45	0.0000			
Aroclor 1016 {5}	5.50		12885	0	2.49	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	3.90	3.72			
Aroclor 1248 {1}		4.92	0	3963	0.0000	3.18			
Aroclor 1248 {2}	5.25	5.47	12158	17679	2.79	6.86			
Aroclor 1248 {3}	5.69		46004	0	7.16	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}	6.28	7.05	8048	4803	1.74	1.13			
Aroclor 1254			0	0	3.77	4.95			
Aroclor 1254 {1}	6.28	6.72	8048	10116	2.07	2.75			
Aroclor 1254 {2}		7.05	0	4803	0.0000	0.8290			
Aroclor 1254 {3}		7.12	0	21820	0.0000	11.26			
Aroclor 1254 {4}	7.17		8074	0	0.8440	0.0000			
Aroclor 1254 {5}	7.74		53190	0	8.40	0.0000			
Aroclor 1260			0	0	1.32	0.0000			
Aroclor 1260 {1}	7.08		20647	0	2.10	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.10		7994	0	0.4250	0.0000			
Aroclor 1260 {5}	9.90		20540	0	1.45	0.0000			
Aroclor 1262			0	0	1.40	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.10		7994	0	0.3460	0.0000			
Aroclor 1262 {4}	9.90		20540	0	1.18	0.0000			
Aroclor 1262 {5}	11.01		22289	0	2.68	0.0000			
Aroclor 1268			0	0	0.8173	0.0000			
Aroclor 1268 {1}	9.77		41534	0	1.41	0.0000			
Aroclor 1268 {2}	9.90		20540	0	0.8060	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}	11.72		14955	0	0.2390	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Inj Date : 11-SEP-2015 22:50
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	0.000	21440	0	0.121	0.000		100.00
Aroclor 1016	4.222	0.000	20035	0	5.58	0.000	60.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	62.72- 94.08	0.00(T)
	0.000	0.000	0	0	0.000	0.000	184.36- 276.53	0.00(T)
	5.252	0.000	12158	0	2.45	0.000	95.63- 143.44	60.68(T)
	5.499	0.000	12885	0	2.49	0.000	100.19- 150.28	64.31(T)
		Average of Peak Amounts =			3.51	0.000		
Aroclor 1248	0.000	4.922		3963		3.18	60.00- 120.00	100.00(T)
	5.252	5.466	12158	17679	2.79	6.85	17.18- 25.77	0.00(T)
	5.685	0.000	46004		7.16		19.47- 29.21	0.00(T)
	0.000	0.000					161.29- 241.93	0.00(T)
	6.275	7.049	8048	4803	1.74	1.13	0.69- 1.04	0.00(T)
		Average of Peak Amounts =			3.90	3.72		
Aroclor 1254	6.275	6.716	8048	10116	2.07	2.75	60.00- 120.00	100.00(T)
	0.000	7.049		4803		0.829	126.24- 189.36	47.48(T)
	0.000	7.122		21820		11.3	43.97- 65.96	215.70(T)
	7.172	0.000	8074		0.844		1126.72-1690.08	100.32(T)
	7.735	0.000	53190		8.40		281.12- 421.67	660.91(T)
		Average of Peak Amounts =			3.77	4.96		
Aroclor 1260	7.075	0.000	20647	0	2.10	0.000	60.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.095	0.000	7994	0	0.425	0.000	169.11- 253.66	38.72(T)
	9.899	0.000	20540	0	1.45	0.000	131.16- 196.75	99.48(T)
		Average of Peak Amounts =			1.33	0.000		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000	60.00- 120.00	0.00(T)
	0.000	0.000	0	0	0.000	0.000	81.49- 122.24	0.00(T)
	9.095	0.000	7994	0	0.346	0.000	185.52- 278.29	0.00(T)
	9.899	0.000	20540	0	1.18	0.000	145.56- 218.35	0.00(T)
	11.012	0.000	22289	0	2.68	0.000	49.79- 74.69	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		1.40	0.000		
Aroclor 1268	9.765	0.000	41534	0	1.41	0.000	80.00- 120.00	100.00(T)
	9.899	0.000	20540	0	0.806	0.000	261.97- 392.95	49.45(T)
	0.000	0.000	0	0	0.000	0.000	12.86- 19.30	0.00(T)
	11.719	0.000	14955	0	0.239	0.000	30.73- 46.09	36.01(T)
			Average of Peak Amounts =		0.818	0.000		
Decachlorobiphenyl	12.259	13.619	11870	46296	0.0751	0.562		100.00
Aroclors, Total	0.000	0.000	119211	21061	14.7	8.67		0.00

QC Flag Legend

T - Target compound detected outside RT window.

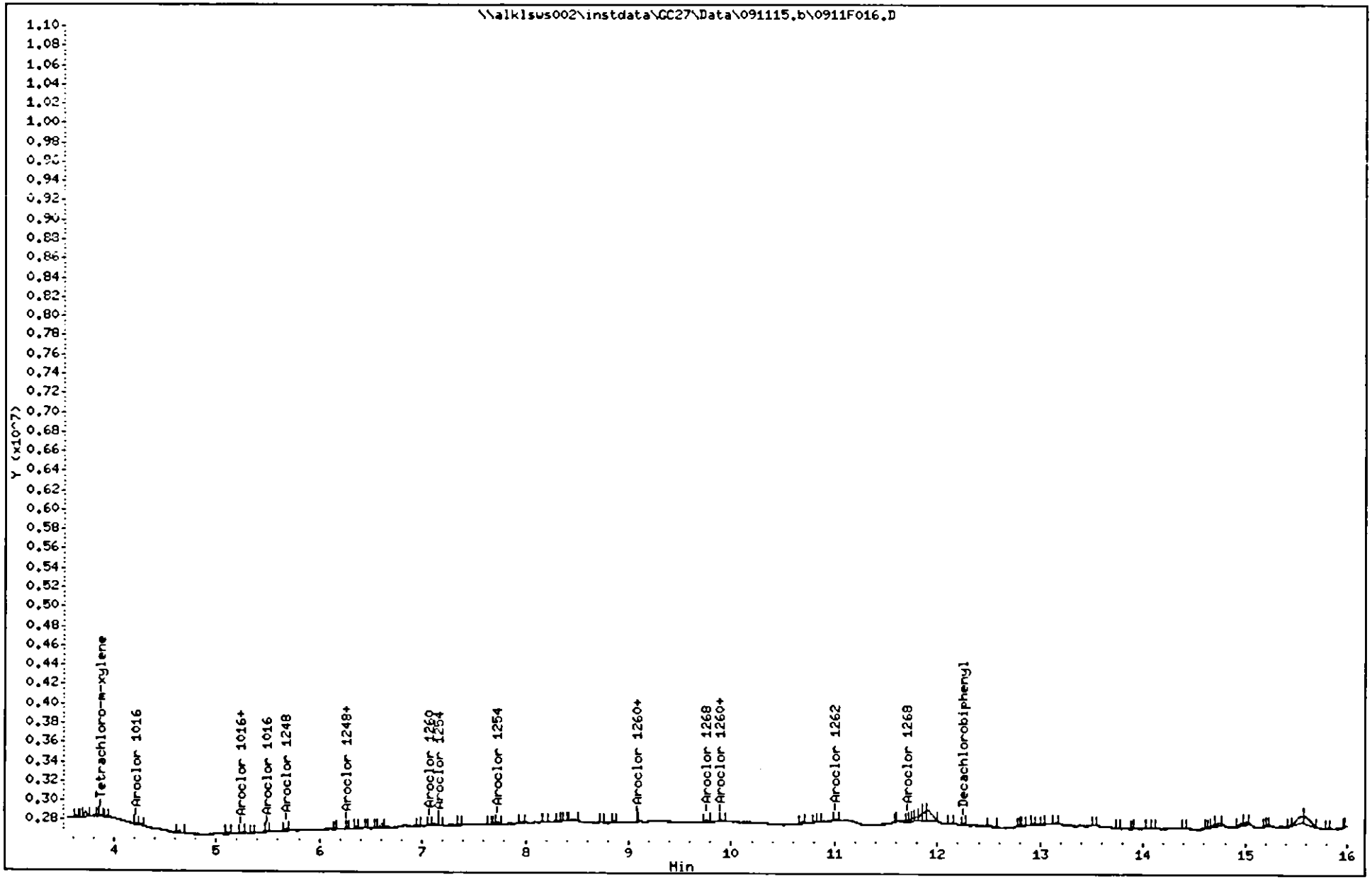
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



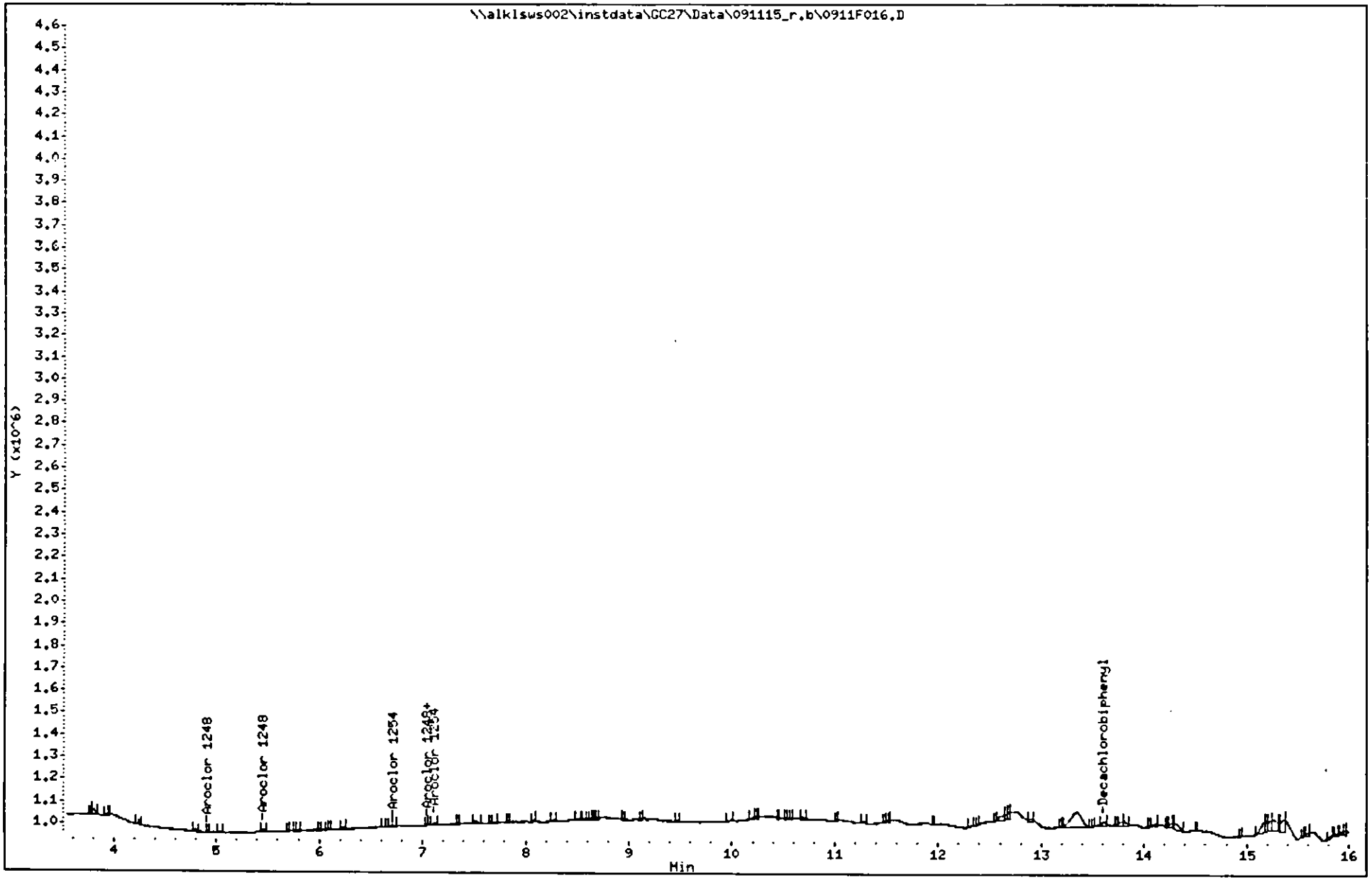
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D
Lab ID: KWG1508799-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:16
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV dl

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D	**Date Acquired:**	09/12/2015 04:16
Lab ID:	KWG1508799-5	**Date Quantitated:**	09/15/2015 08:13
RunType:	CCV	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F030.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D			**Vial:**	1
Acqu Date:	09/12/2015 04:16	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	10375746	4552348	58.61	57.88			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8513471	4381836	53.84	53.21			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	469.65	470.89			
Aroclor 1016 {1}	4.24	4.62	1869390	901564	520.87	490.48			
Aroclor 1016 {2}	4.74	4.96	1465598	1208847	489.17	496.53			
Aroclor 1016 {3}	4.94	5.59	4307926	1353660	435.54	451.34			
Aroclor 1016 {4}	5.21	5.92	2234569	1008947	450.40	459.65			
Aroclor 1016 {5}	5.50	6.12	2341136	984108	452.27	456.45			
Aroclor 1260			0	0	498.64	516.10			
Aroclor 1260 {1}	7.08	7.84	4535536	1071384m	460.43	485.69			
Aroclor 1260 {2}	8.10	9.27	4040571	1958562m	497.99	518.16			
Aroclor 1260 {3}	8.65	9.72	4120709	1876166m	500.63	519.88			
Aroclor 1260 {4}	9.11	10.40	9587291	4574126m	510.00	529.75			
Aroclor 1260 {5}	9.89	11.03	7436293	2943558m	524.17	527.02			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D
Inj Date : 12-SEP-2015 04:16
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10375746	4552348	58.6	57.9		100.00
Aroclor 1016	4.238	4.622	1869390	901564	521	490	80.00- 120.00	100.00
	4.742	4.955	1465598	1208847	489	497	62.72- 94.08	78.40
	4.938	5.592	4307926	1353660	436	451	184.36- 276.53	230.45
	5.208	5.922	2234569	1008947	450	460	95.63- 143.44	119.53
	5.502	6.119	2341136	984108	452	456	100.19- 150.28	125.24
		Average of Peak Amounts =			470	471		
Aroclor 1260	7.075	7.835	4535536	1071384	460	486	80.00- 120.00	100.00
	8.095	9.269	4040571	1958562	498	516	71.27- 106.90	89.09
	8.645	9.719	4120709	1876166	501	520	72.68- 109.02	90.85
	9.112	10.395	9587291	4574126	510	530	169.11- 253.66	211.38
	9.892	11.032	7436293	2943558	524	527	131.16- 196.75	163.96
		Average of Peak Amounts =			499	516		
Decachlorobiphenyl	12.262	13.622	8513471	4381836	53.8	53.2		100.00

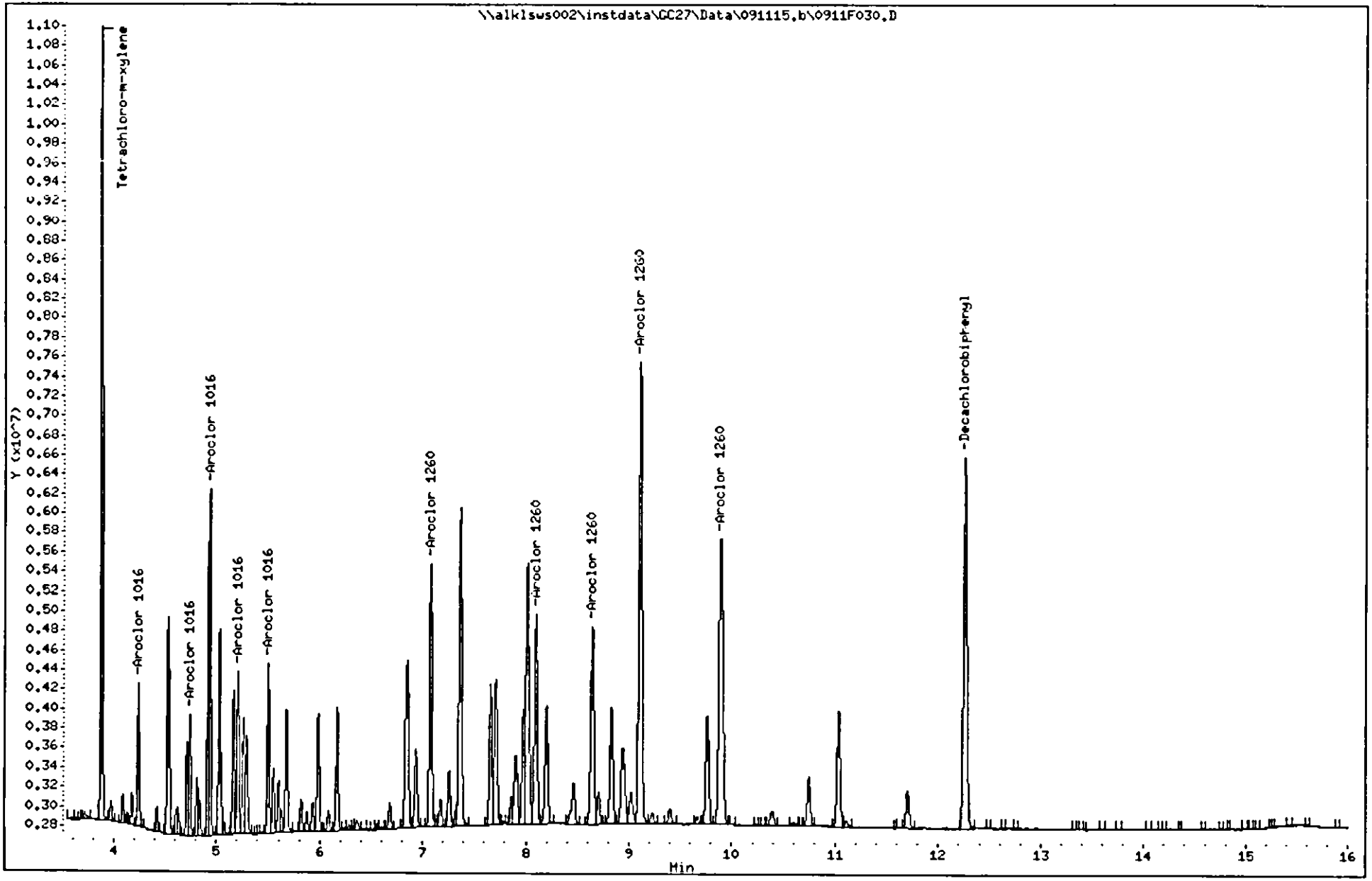
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



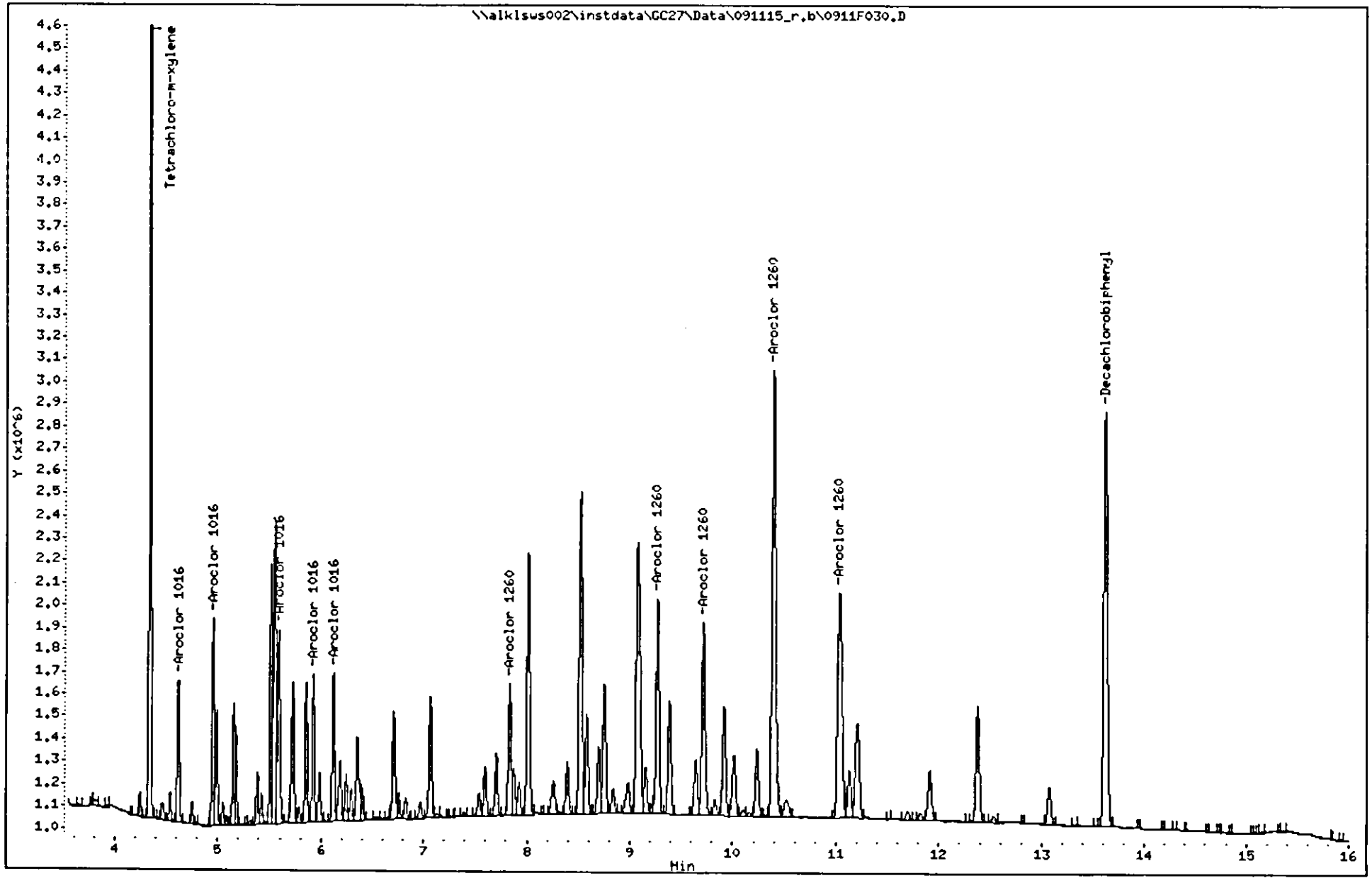
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/15/15

Secondary Review: [illegible]

Printed: 09/15/2015 08:58:30
u:\Stealth\Crystal rpt\except2 rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:13
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV OK
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	24861	3851	0.1400	0.0490				NA
			%Recovery =		NA	NA	**Limits =**	44-130		
Decachlorobiphenyl	0.00	13.63	0	7909		0.0960				NA
			%Recovery =		NA	NA	**Limits =**	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	1.91			
Aroclor 1242 {1}		4.97	0	4296	0.0000	2.37			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}		5.54	0	4470	0.0000	1.36			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}		6.80	0	4079	0.0000	2.02			
Aroclor 1248			0	0	0.0000	2.61			
Aroclor 1248 {1}		4.97	0	4296	0.0000	3.45			
Aroclor 1248 {2}		5.54	0	4470	0.0000	1.73			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	11280	0.0000	2.64			
Aroclor 1254			0	0	0.0000	5.45			
Aroclor 1254 {1}		6.73	0	7027	0.0000	1.91			
Aroclor 1254 {2}		7.05	0	11280	0.0000	1.95			
Aroclor 1254 {3}		7.11	0	30526	0.0000	15.76			
Aroclor 1254 {4}		8.01	0	4971	0.0000	2.19			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.2757			
Aroclor 1268 {1}		11.02	0	3497	0.0000	0.2700			
Aroclor 1268 {2}		11.25	0	3424	0.0000	0.3130			
Aroclor 1268 {3}		11.70	0	3543	0.0000	0.3710			
Aroclor 1268 {4}		13.10	0	4252	0.0000	0.1490			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Inj Date : 12-SEP-2015 04:39
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	24861	3851	0.140	0.0490		100.00
Aroclor 1242	0.000	4.967	0	4296	0.000	2.36		
	0.000	5.541	0	4470	0.000	1.36		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.804	0	4079	0.000	2.02		
		Average of Peak Amounts =			0.000	1.91		
Aroclor 1248	0.000	4.967	0	4296	0.000	3.45		
	0.000	5.541	0	4470	0.000	1.73		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.047	0	11280	0.000	2.64		
		Average of Peak Amounts =			0.000	2.61		
Aroclor 1254	0.000	6.727	0	7027	0.000	1.91		
	0.000	7.047	0	11280	0.000	1.95		
	0.000	7.114	0	30526	0.000	15.8		
	0.000	8.007	0	4971	0.000	2.15		
	0.000	0.000	0	0	0.000	0.000		
		Average of Peak Amounts =			0.000	5.46		
Aroclor 1268	0.000	11.024	0	3497	0.000	0.270		
	0.000	11.247	0	3424	0.000	0.313		
	0.000	11.701	0	3543	0.000	0.371		
	0.000	13.097	0	4252	0.000	0.149		
		Average of Peak Amounts =			0.000	0.276		
Decachlorobiphenyl	0.000	13.627	0	7909	0.000	0.0960		
Aroclors, Total	0.000	0.000	0	28093	0.000	10.3		

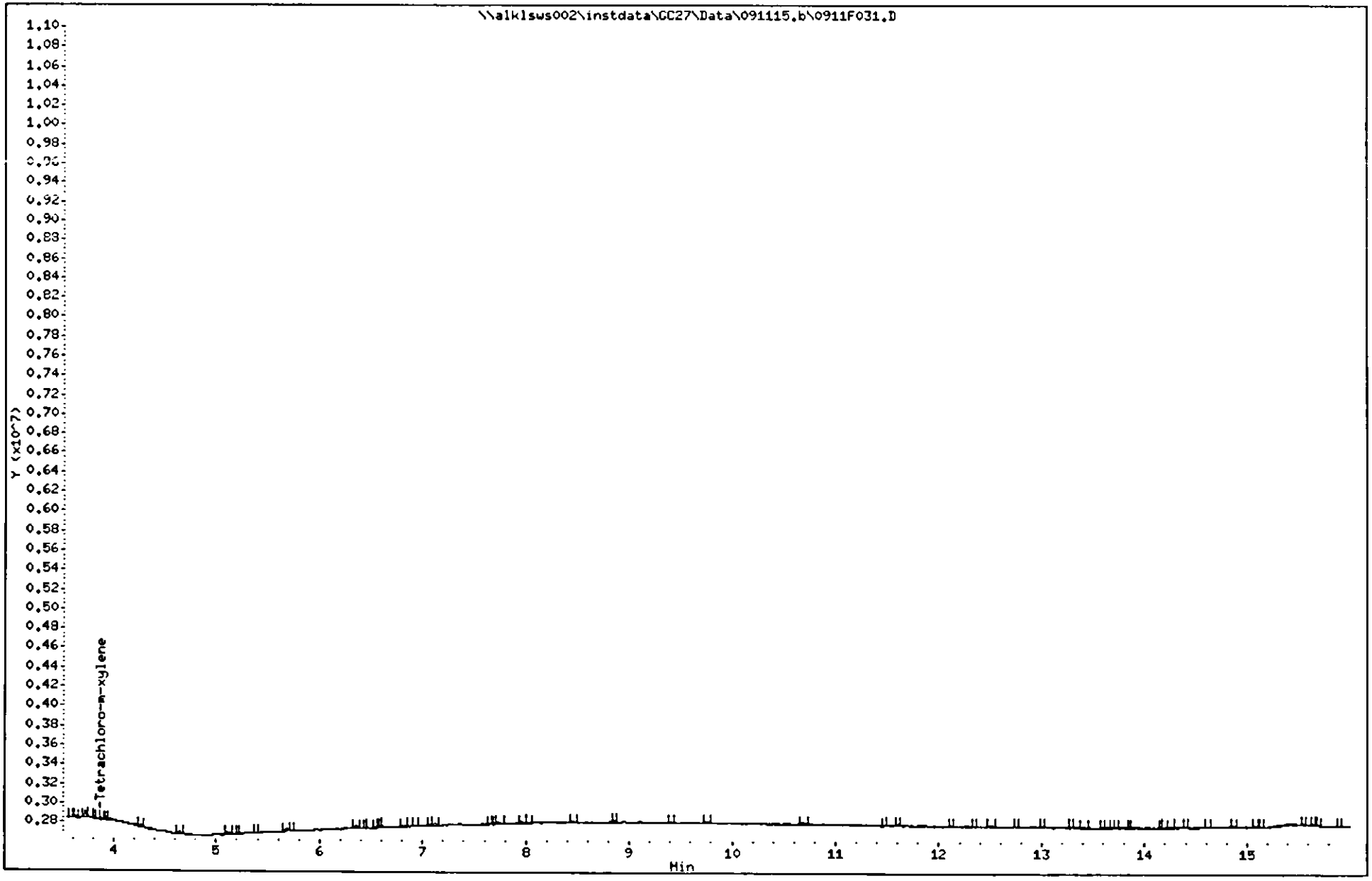
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



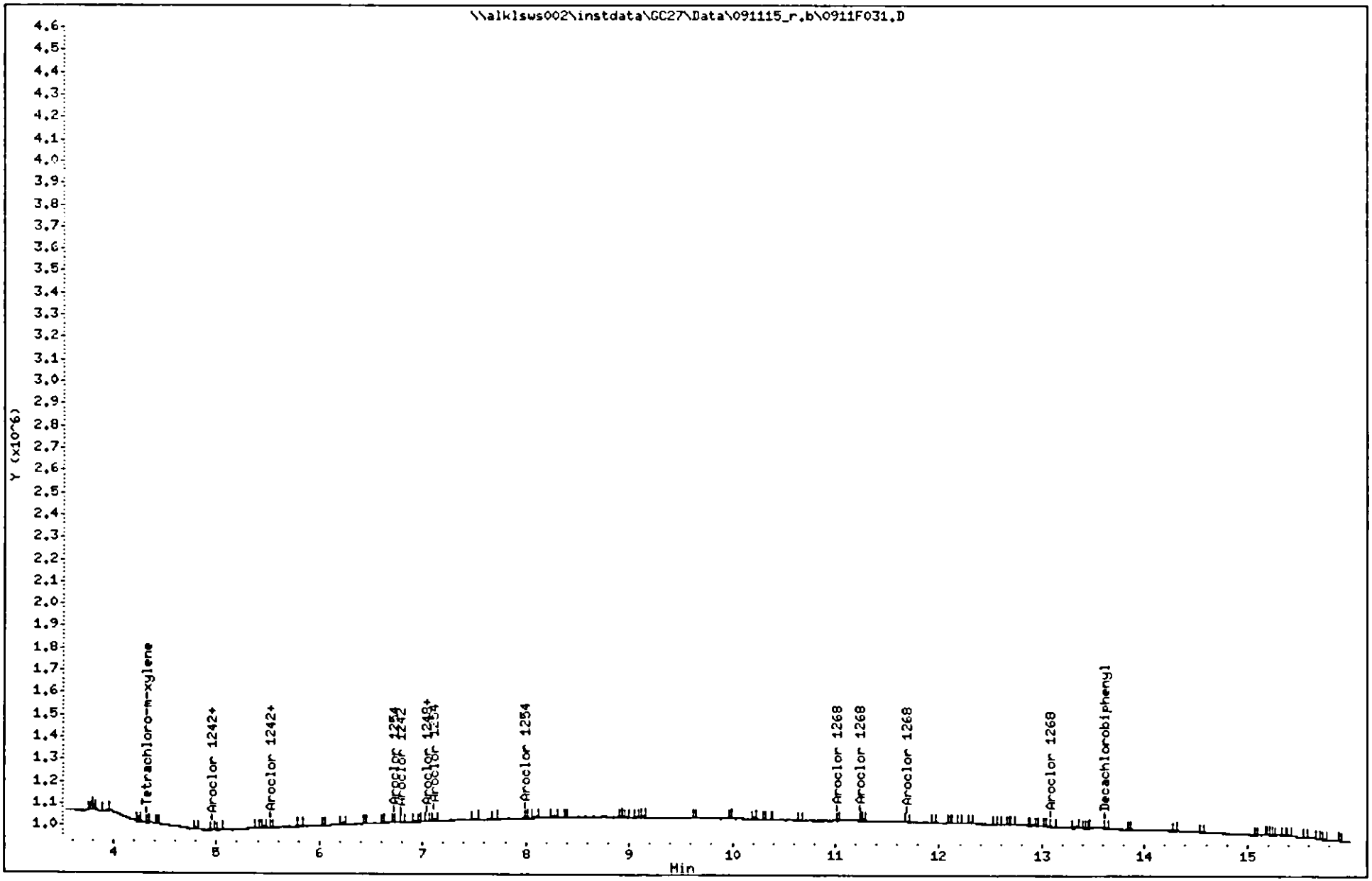
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ 20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
* ↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

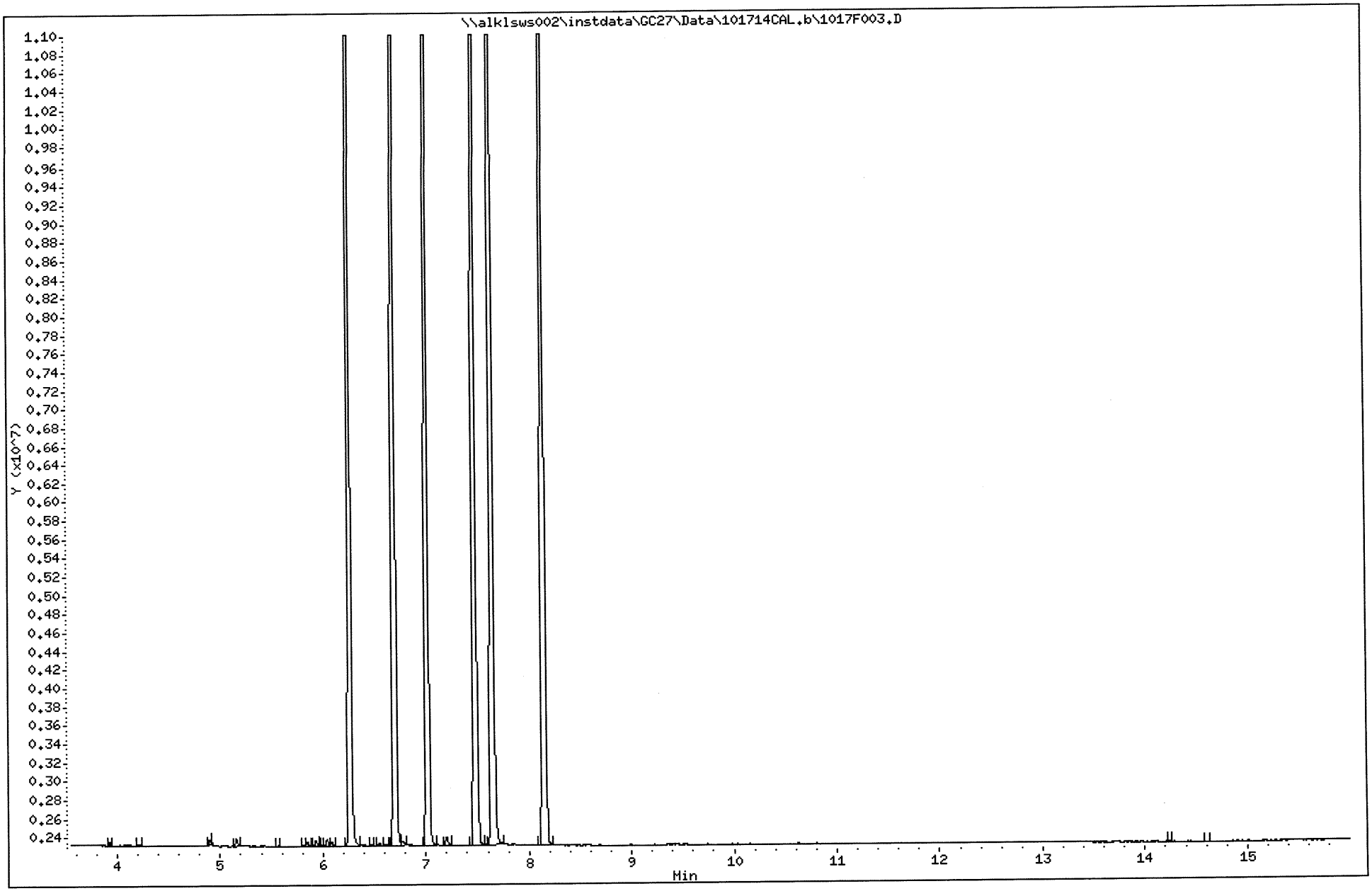
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



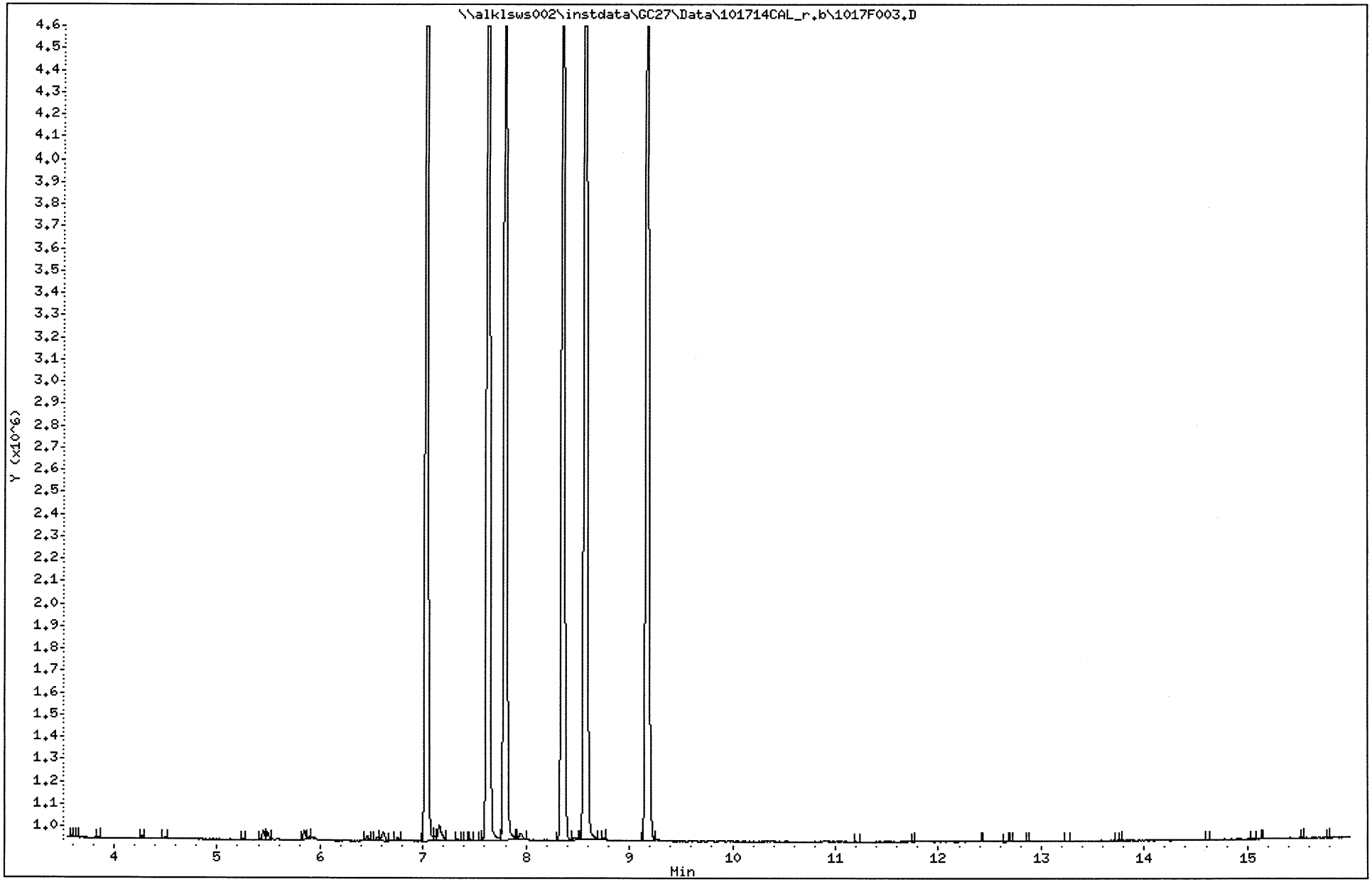
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

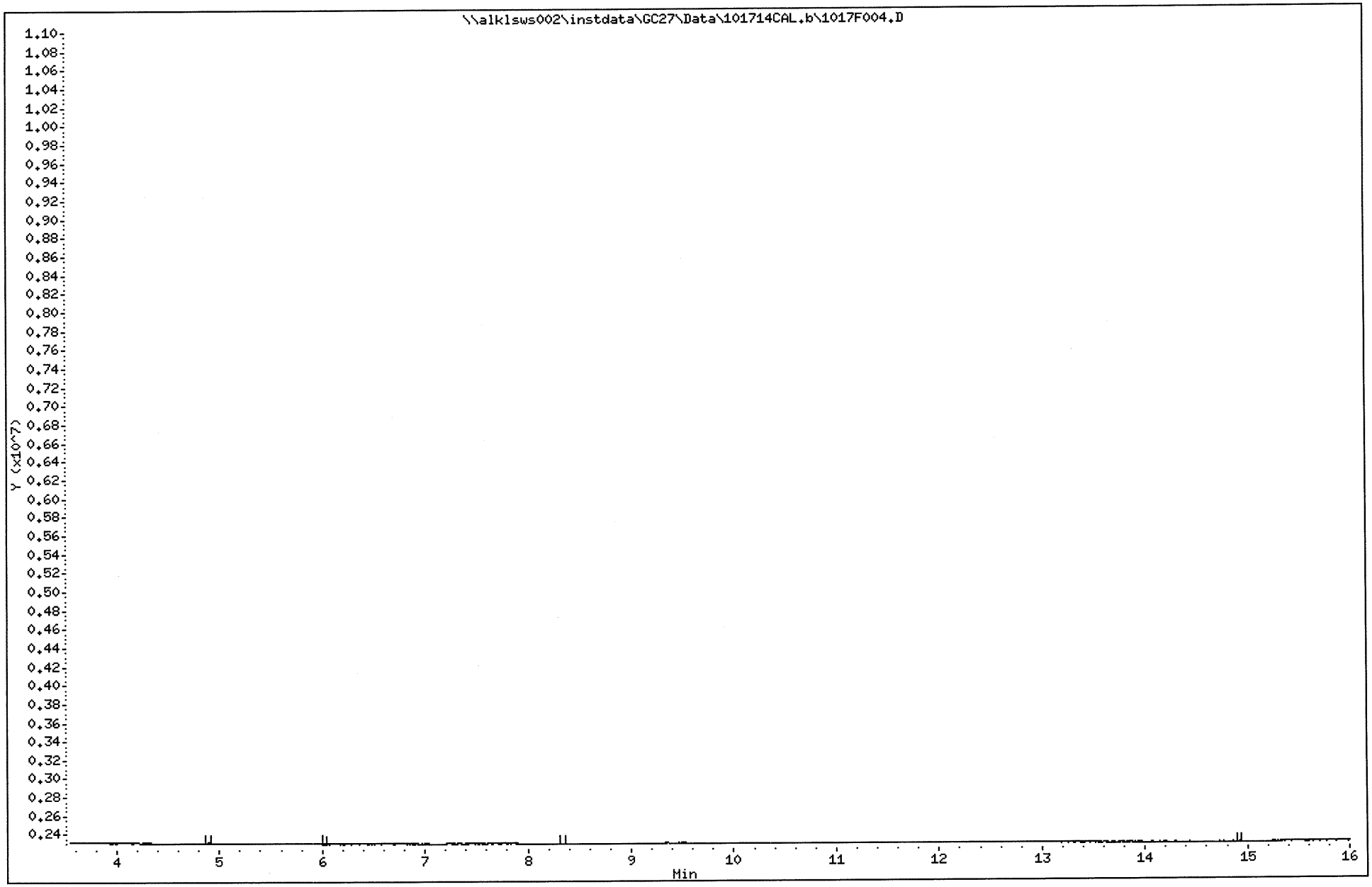
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



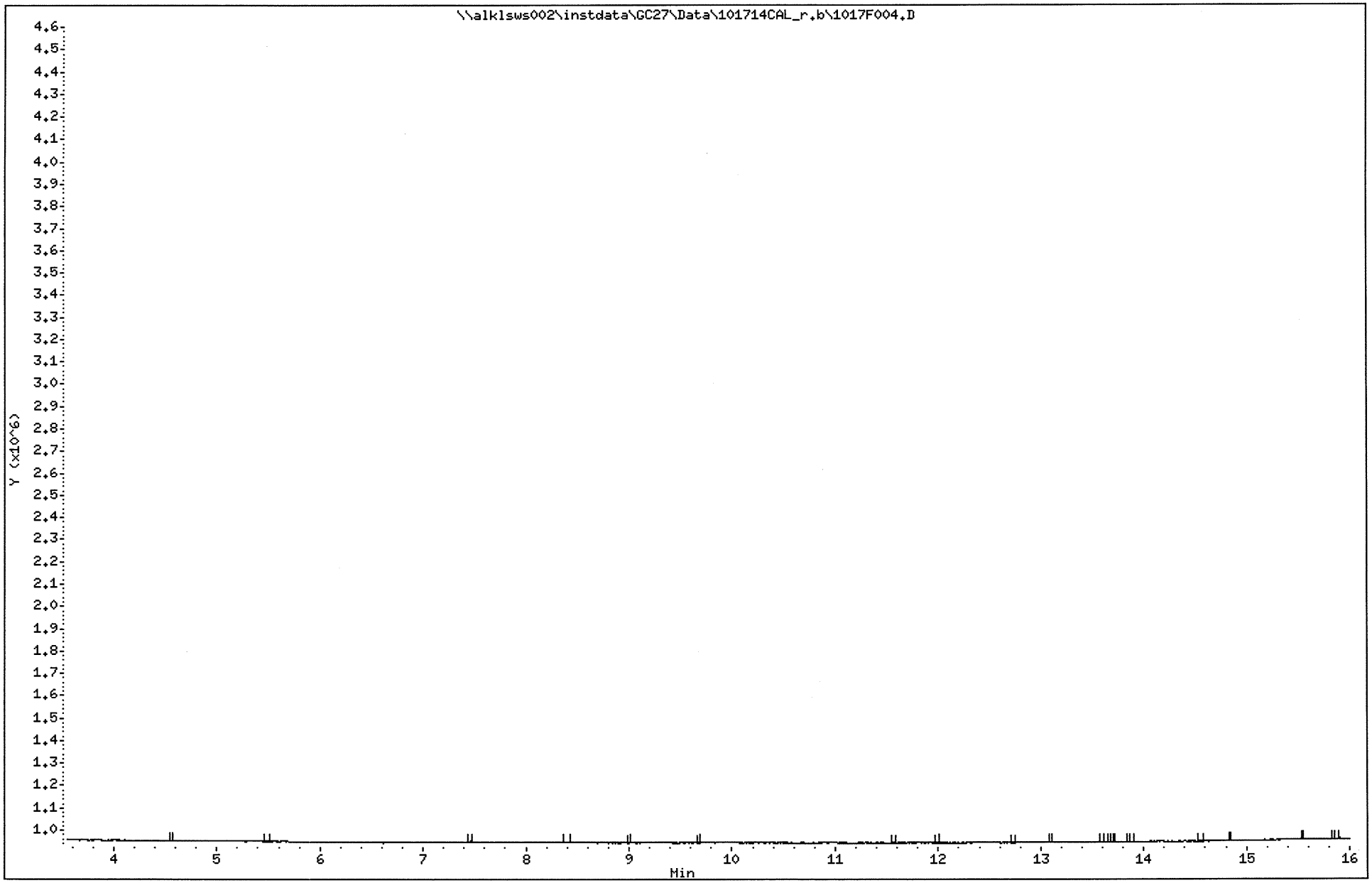
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

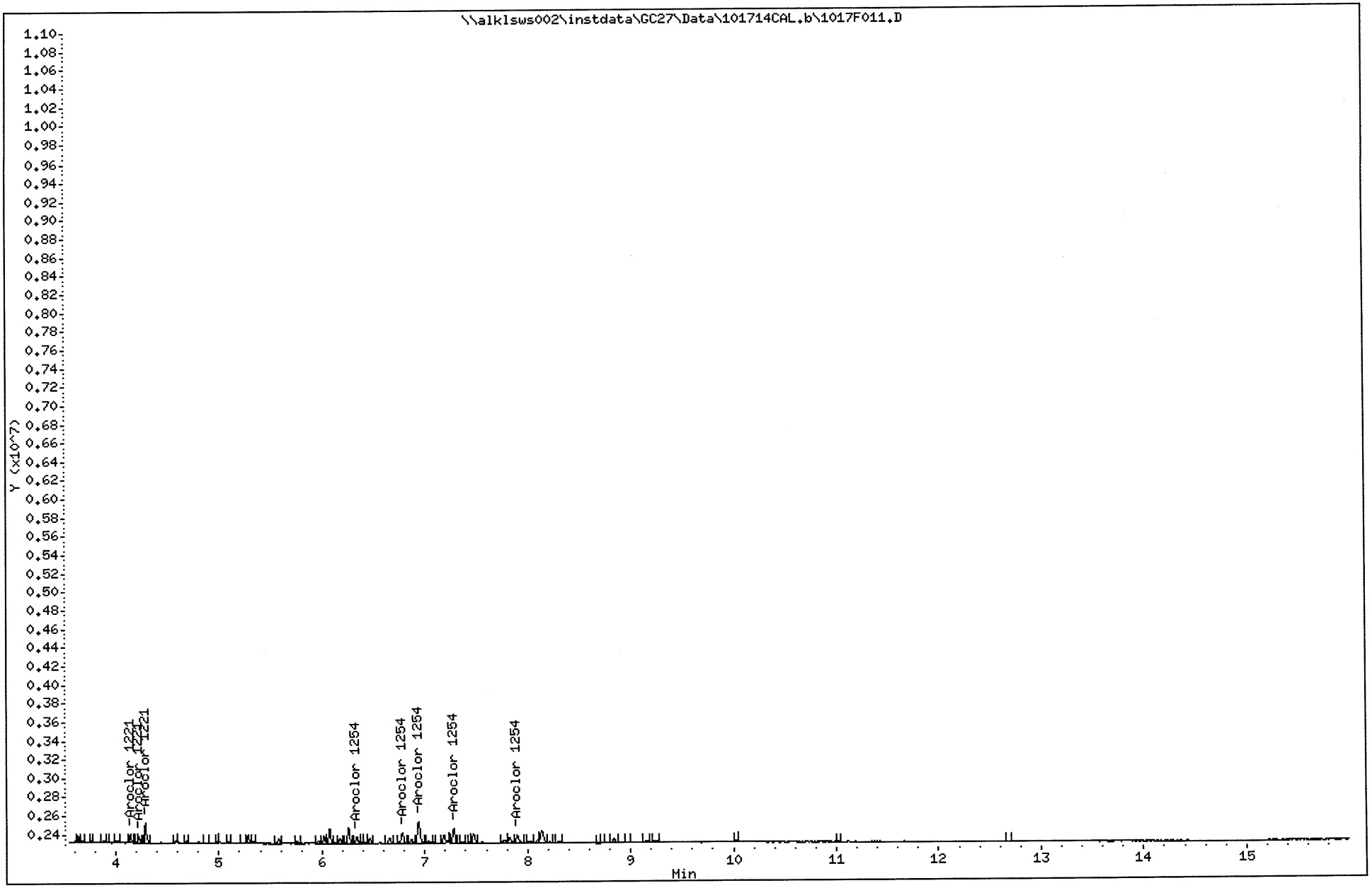
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



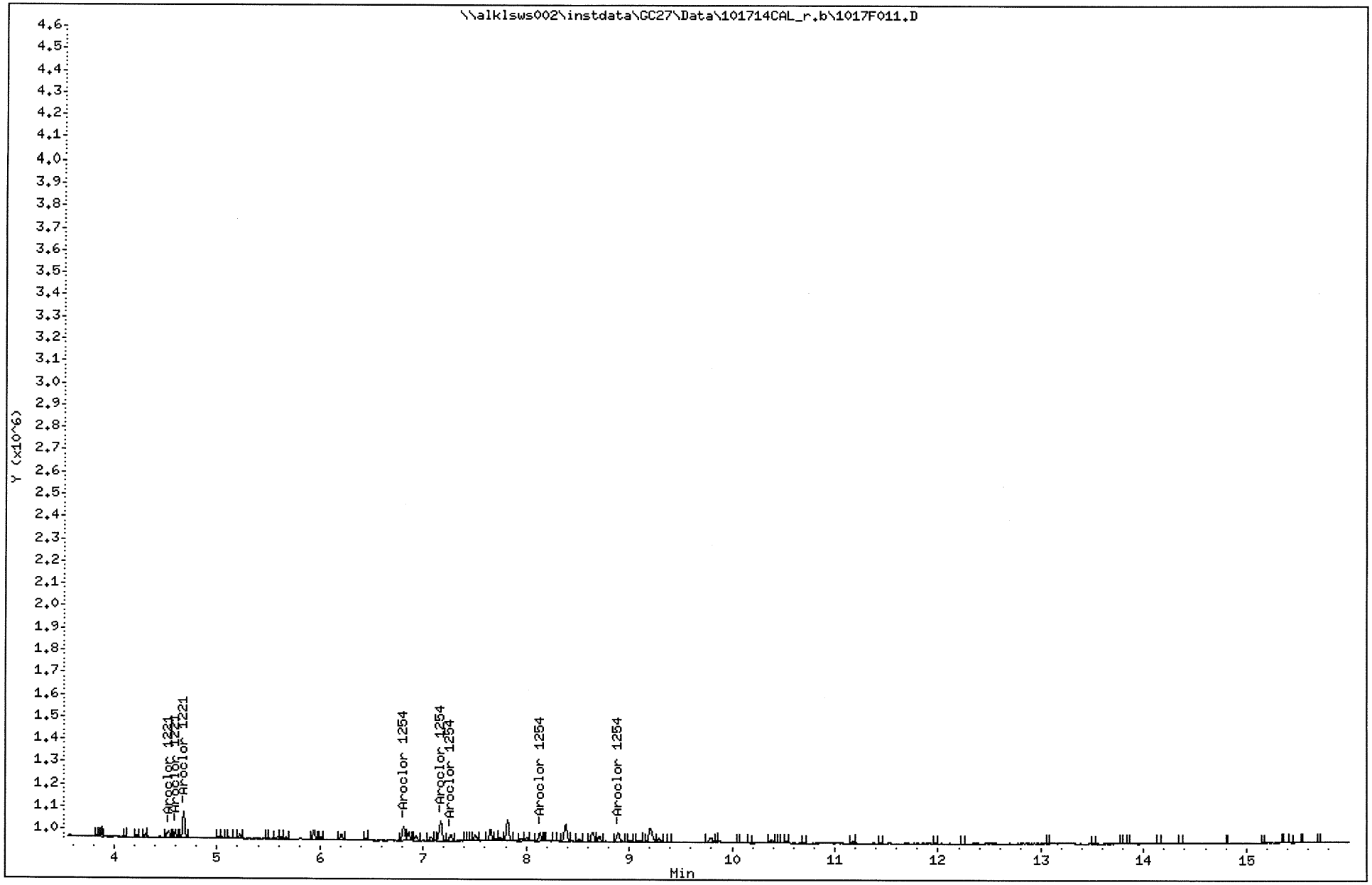
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

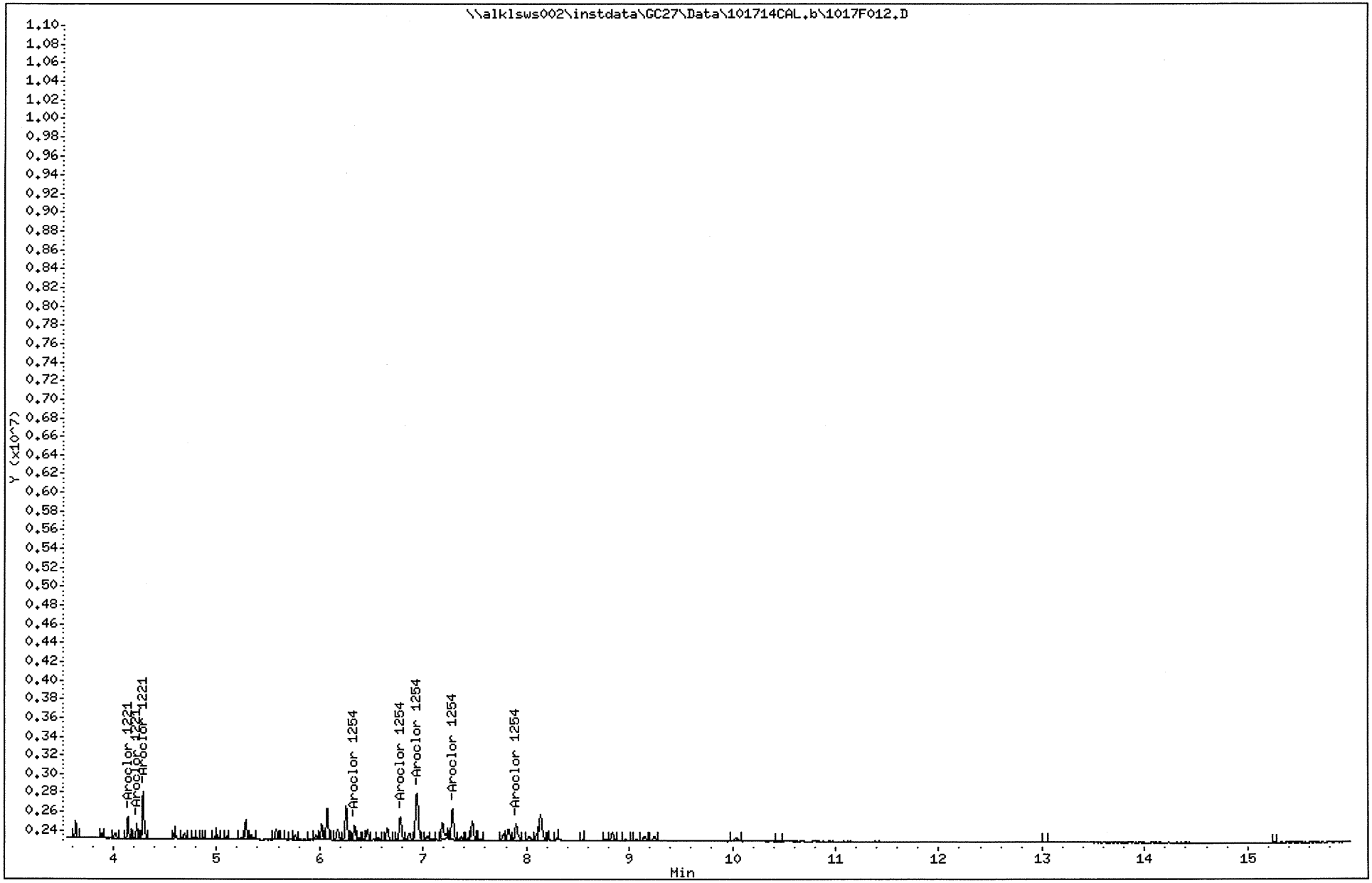
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



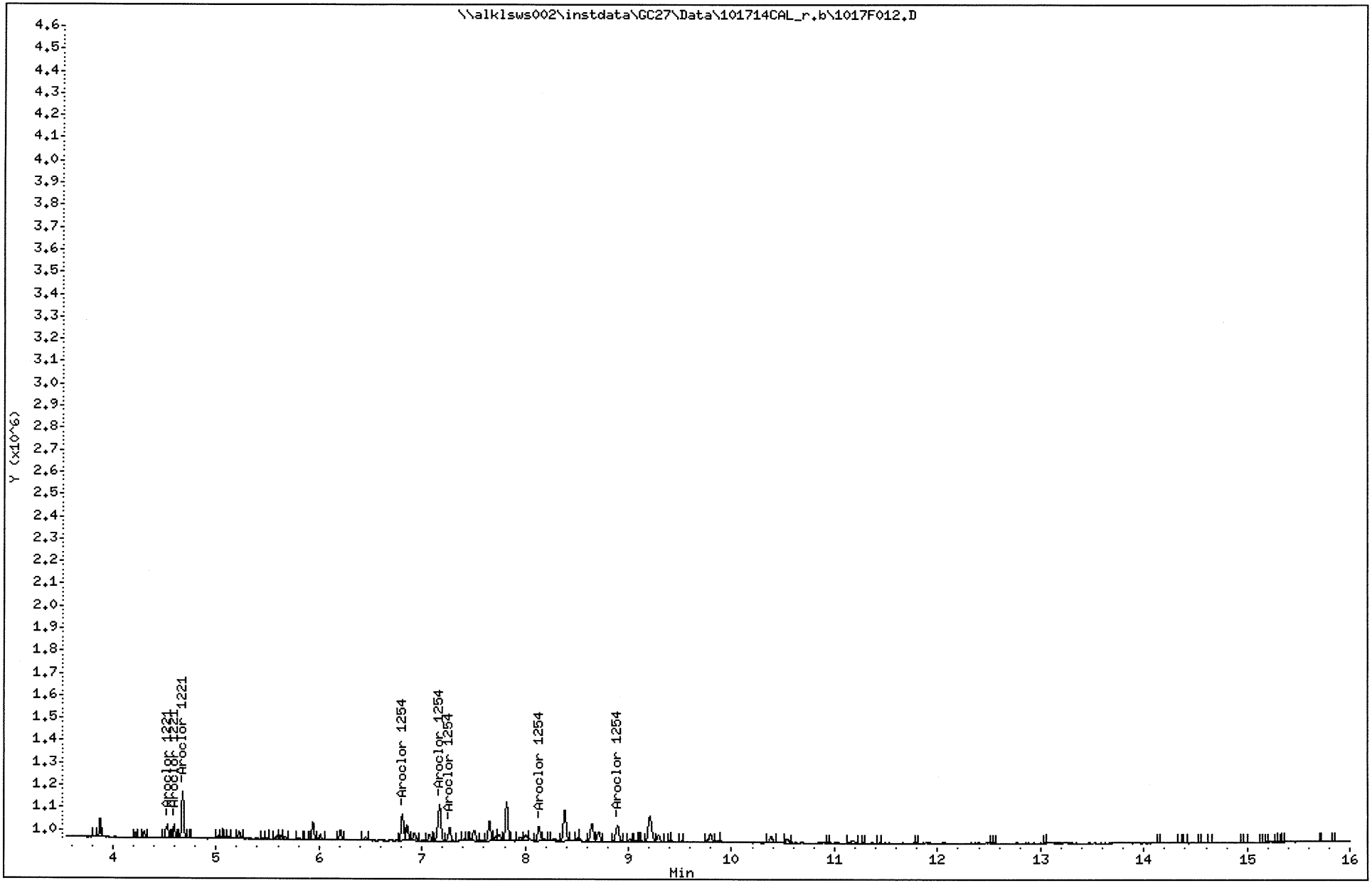
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

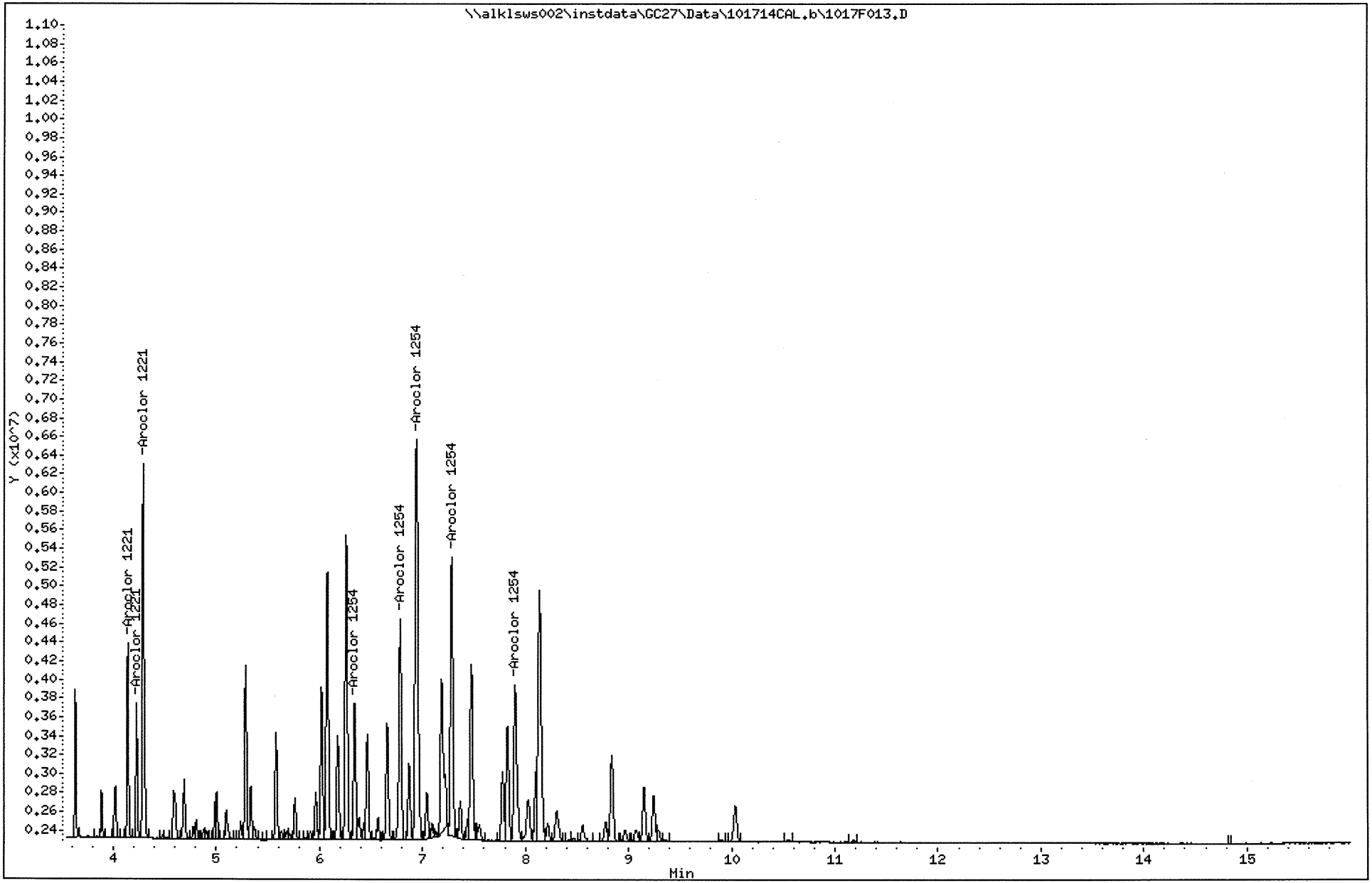
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



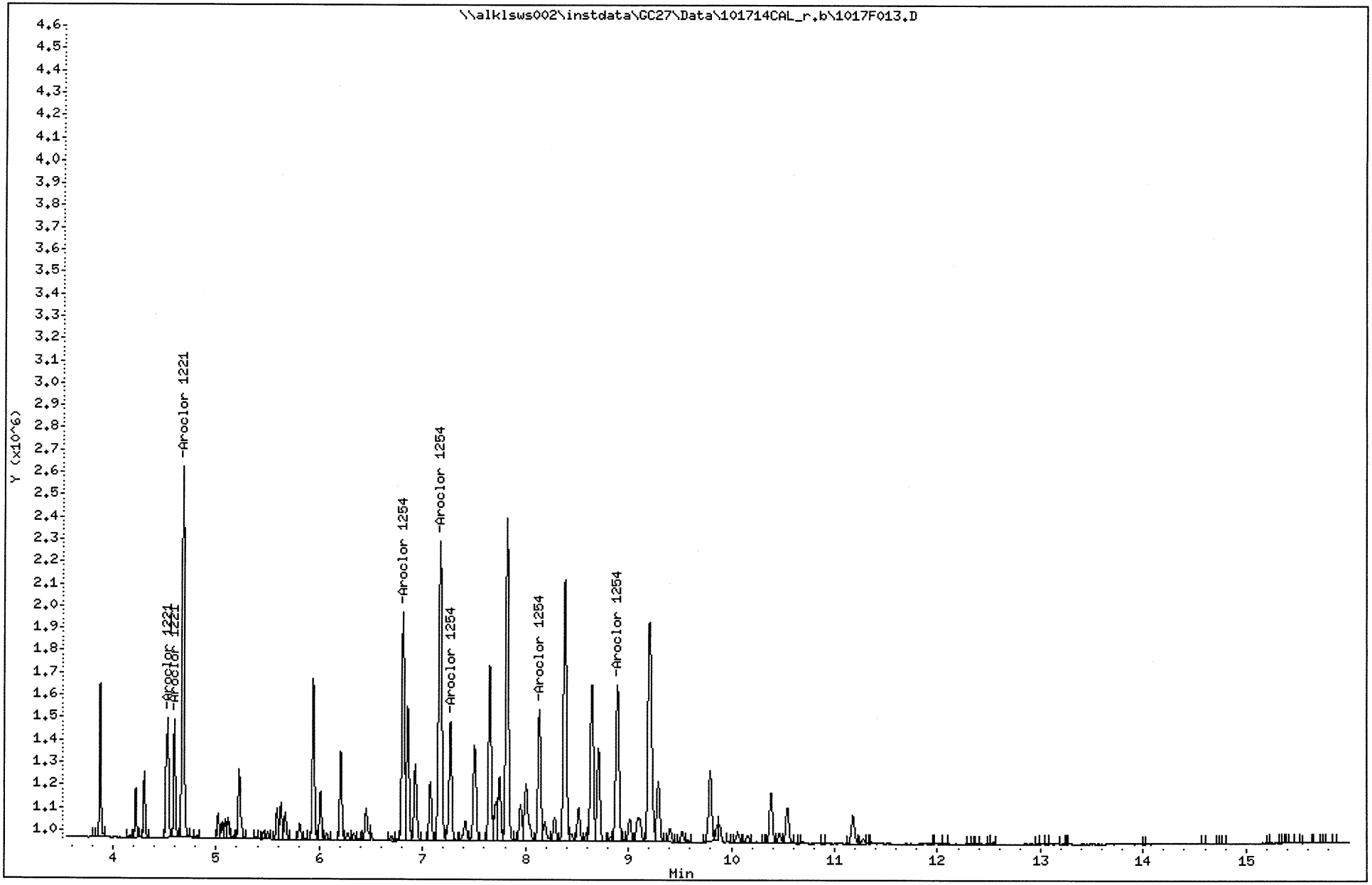
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

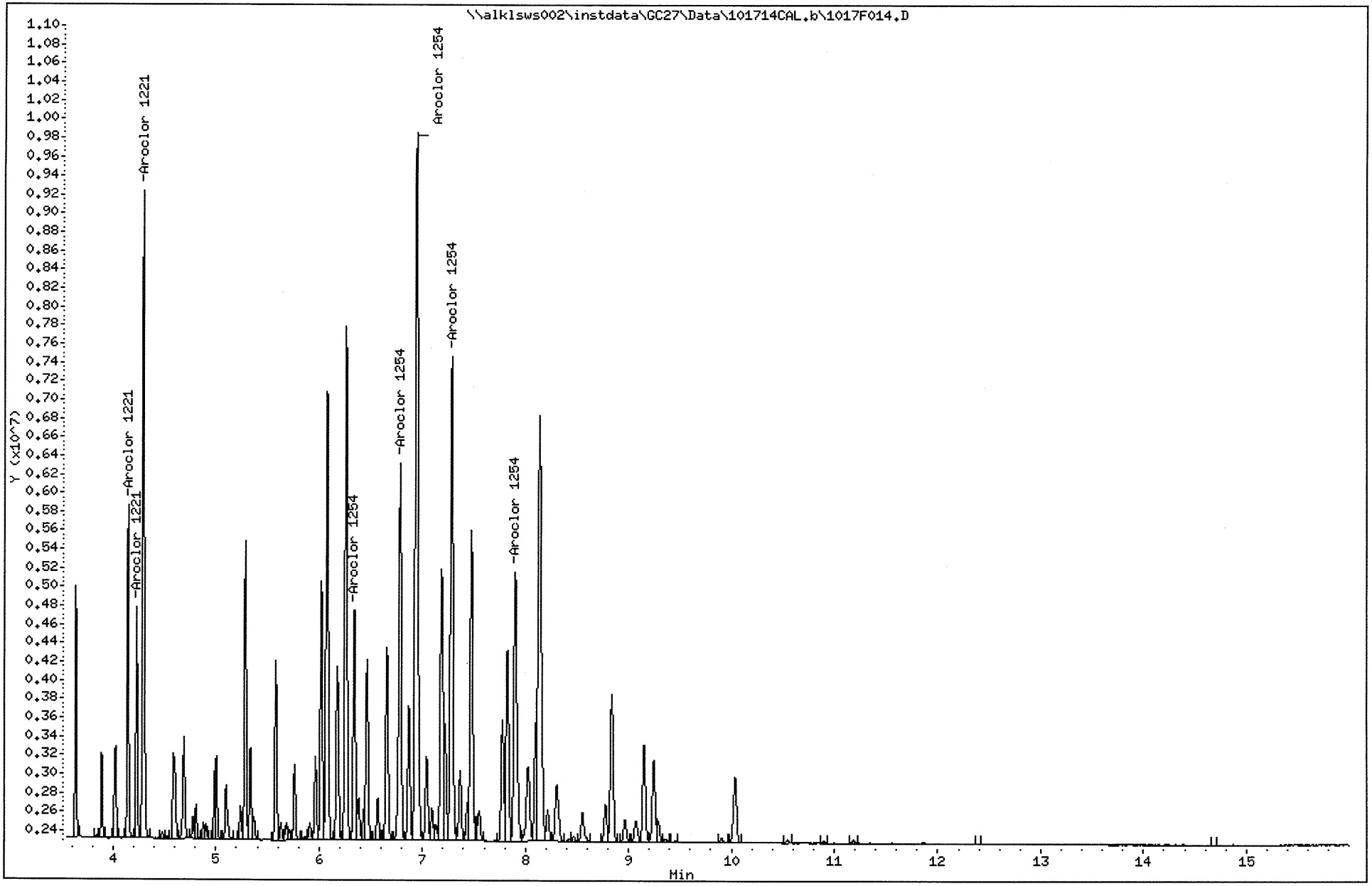
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



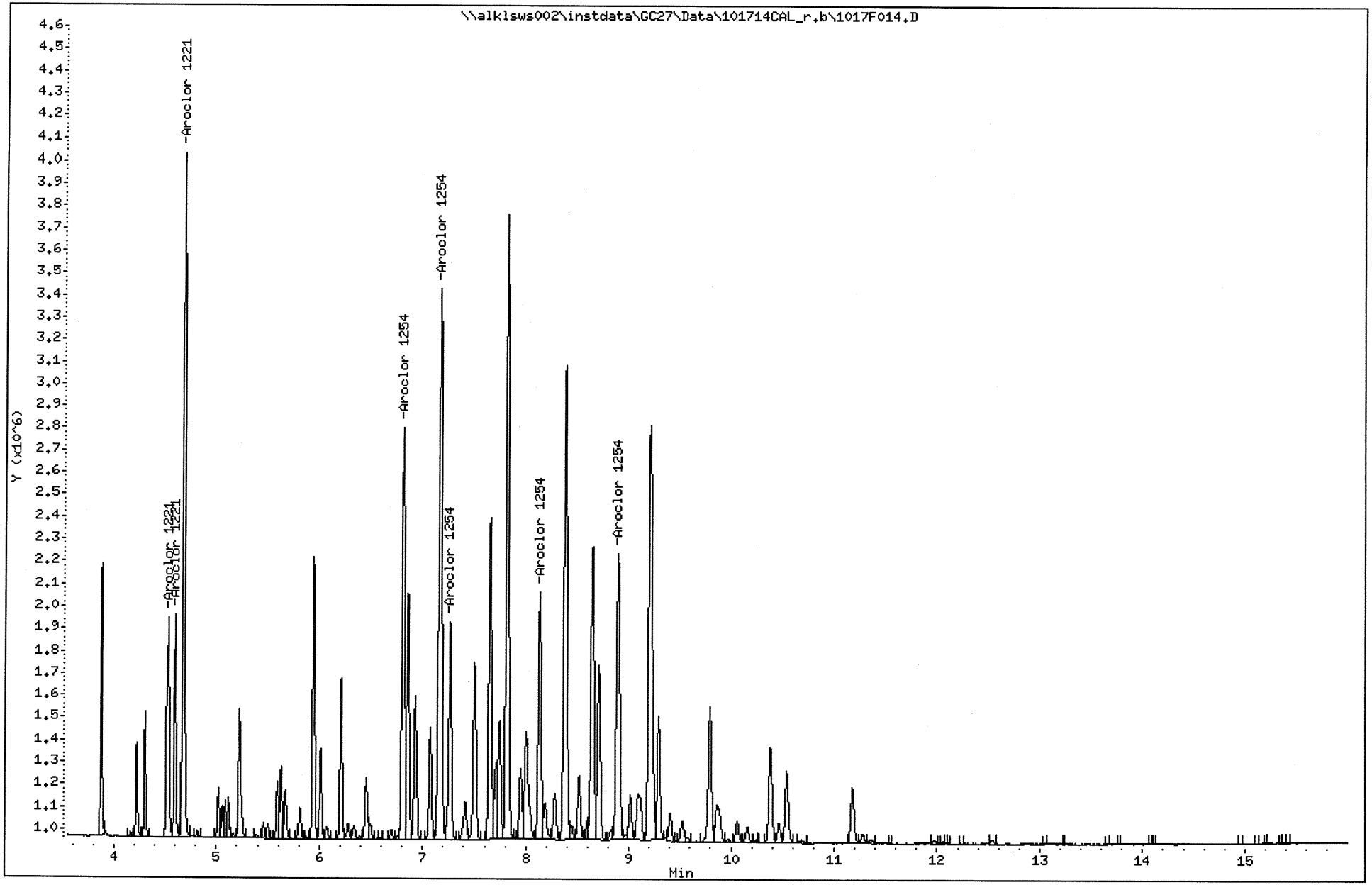
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

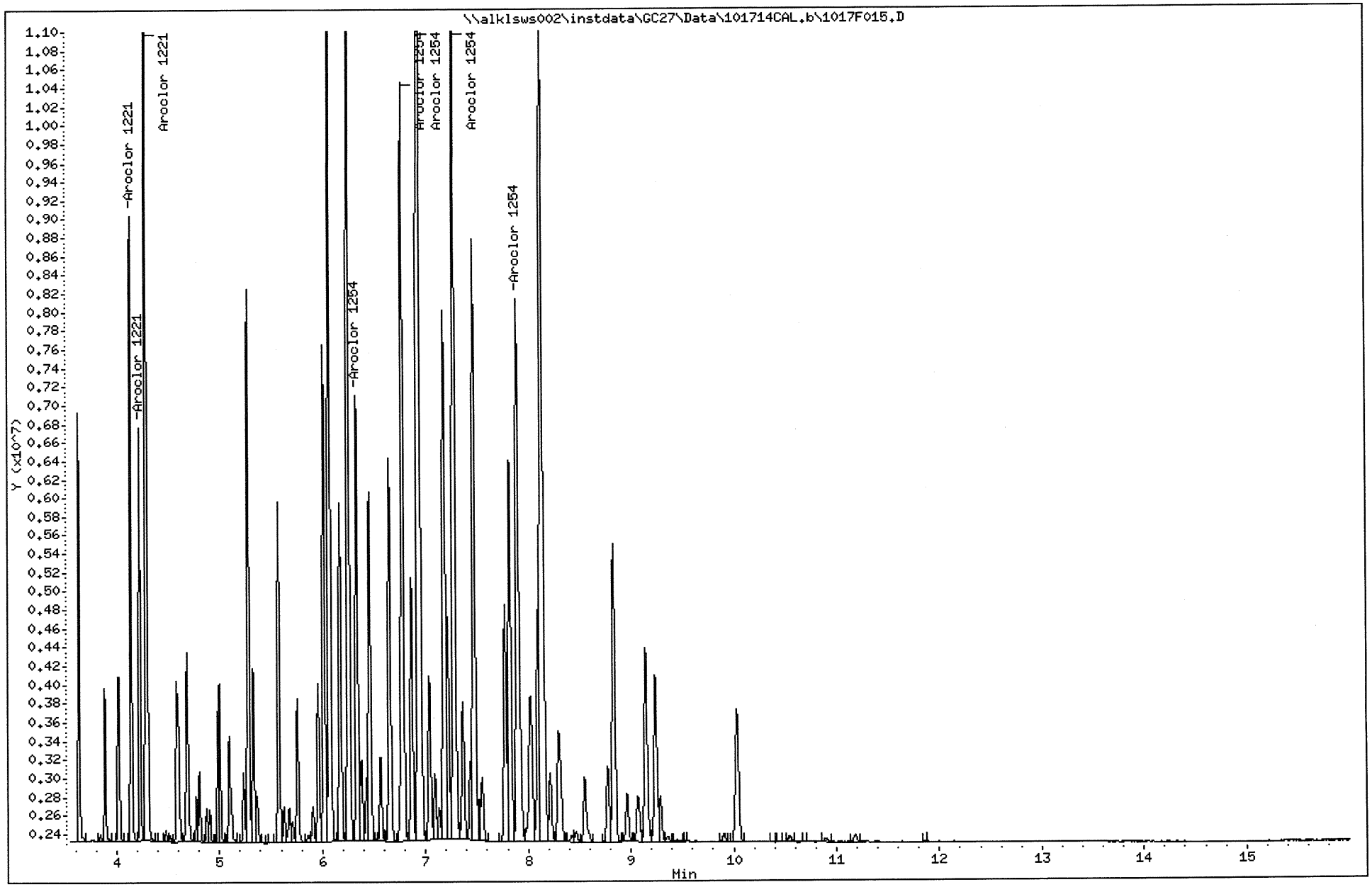
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

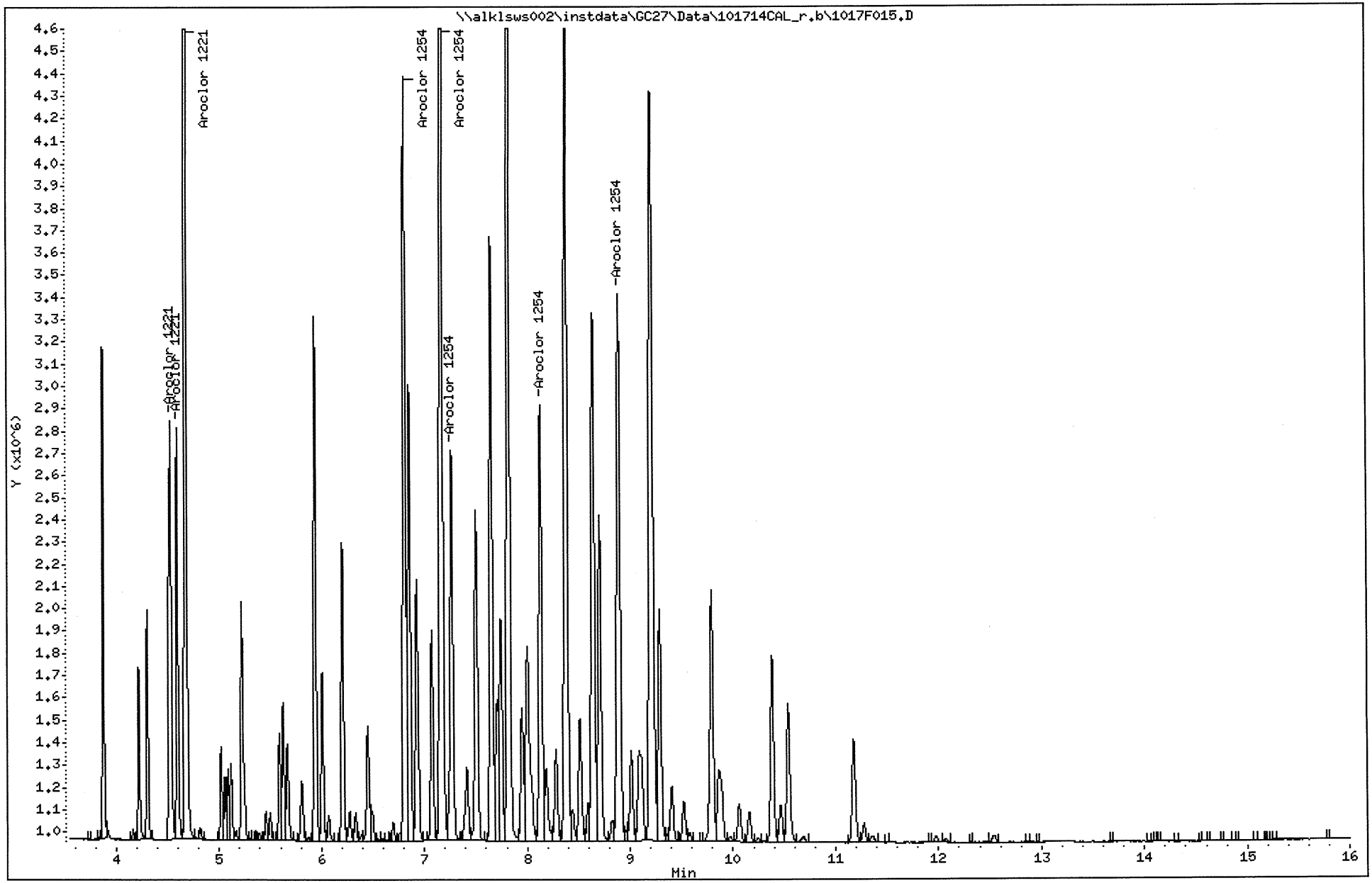


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

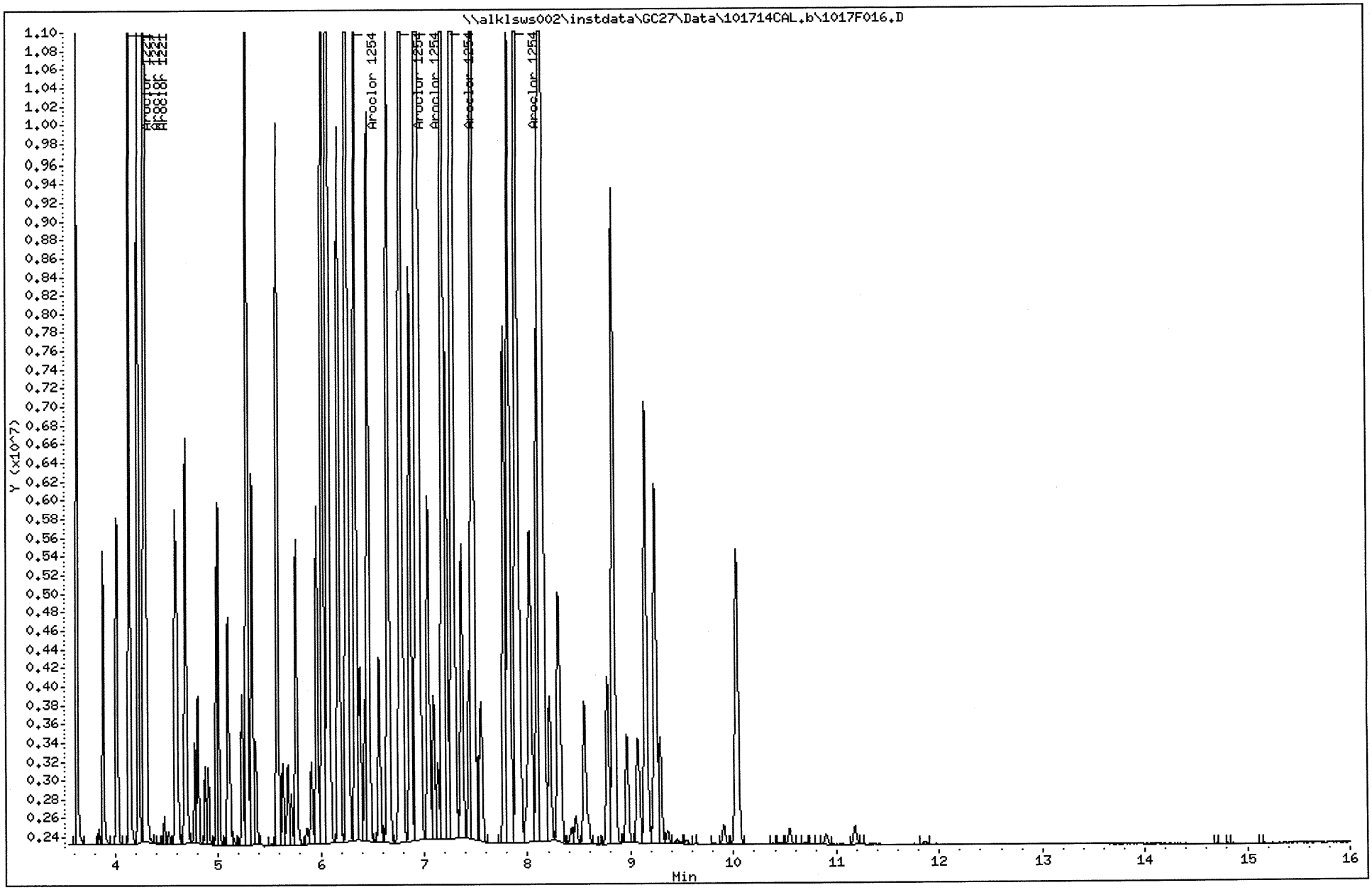
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



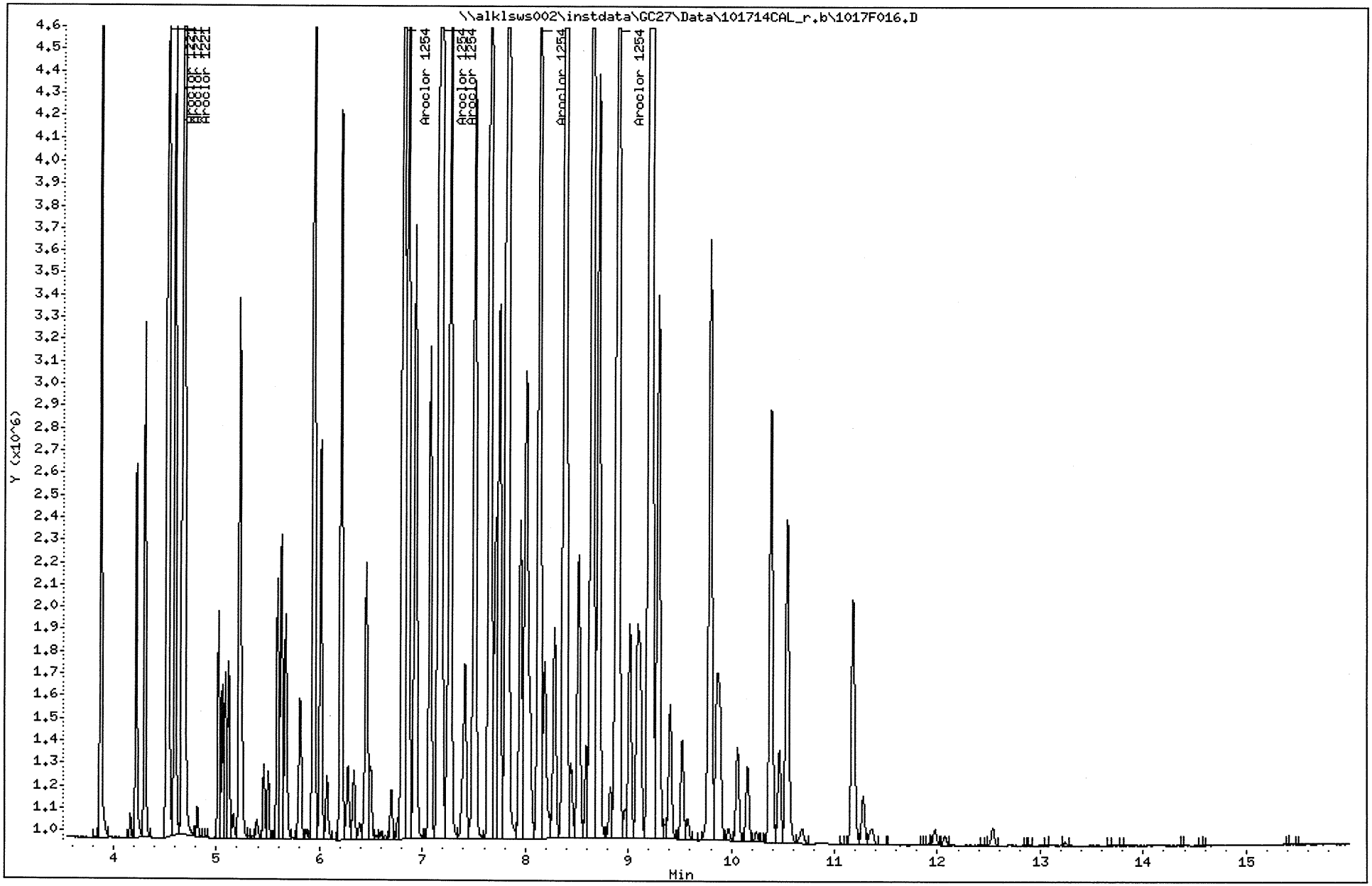
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

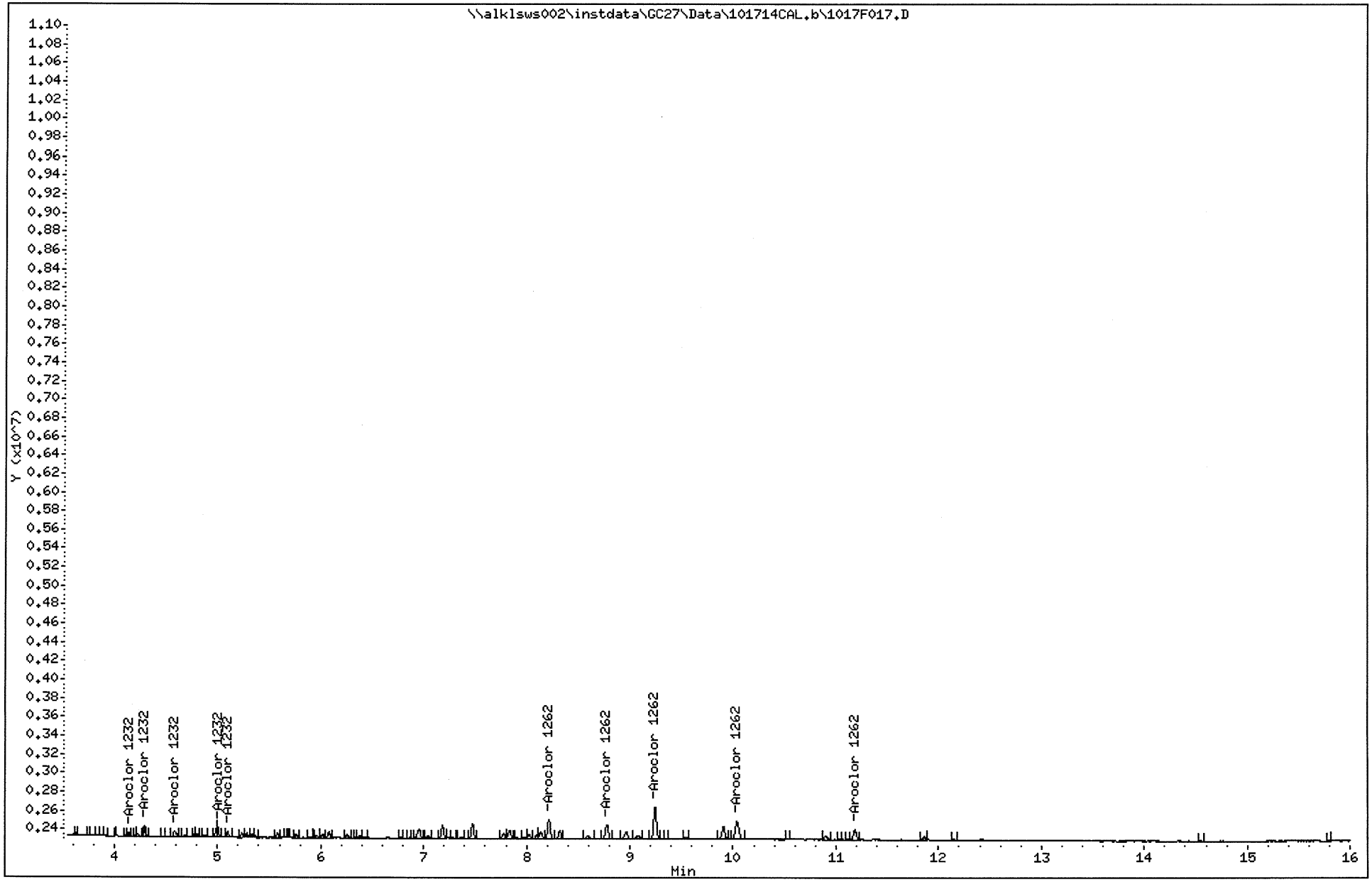
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



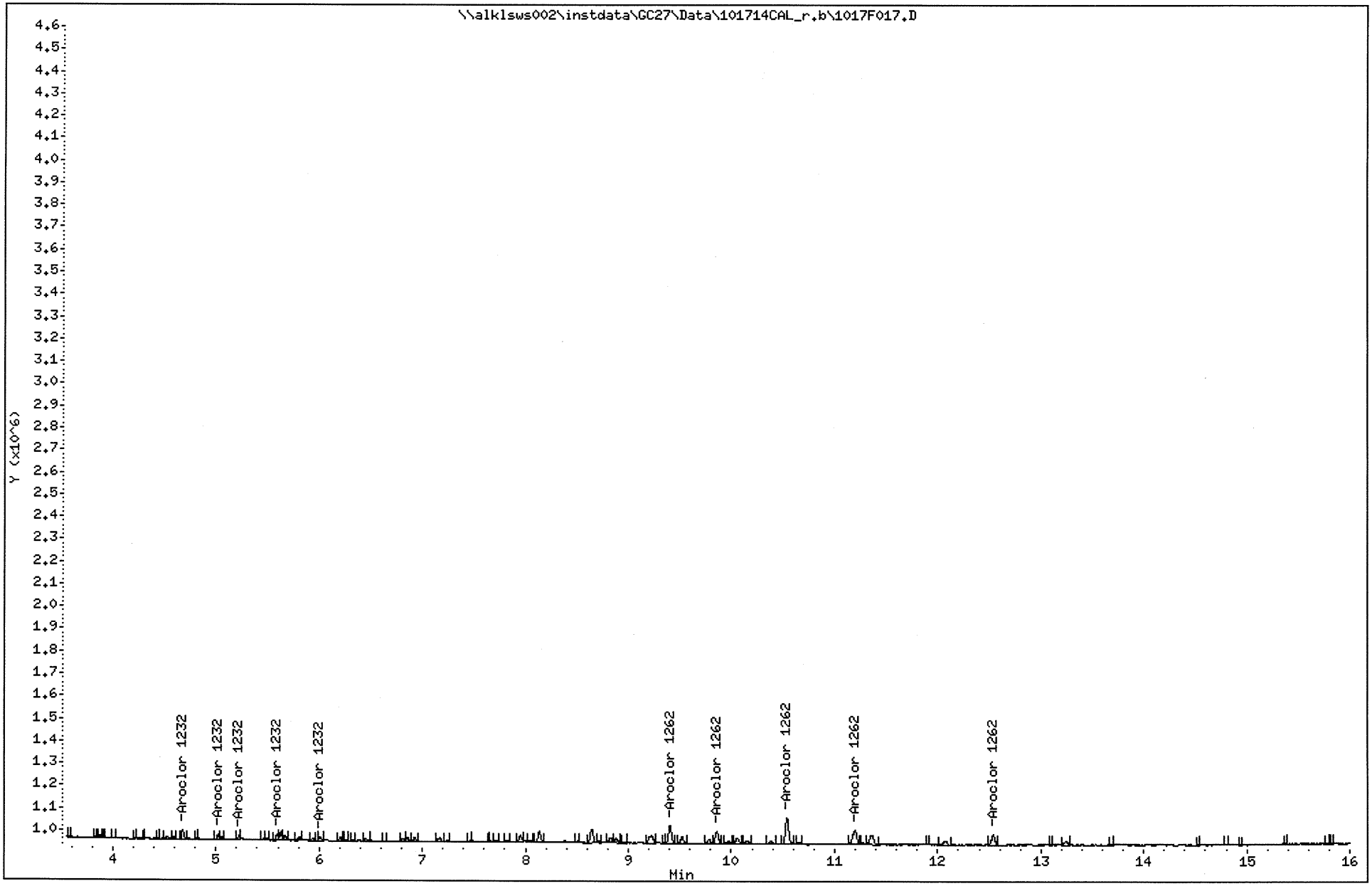
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

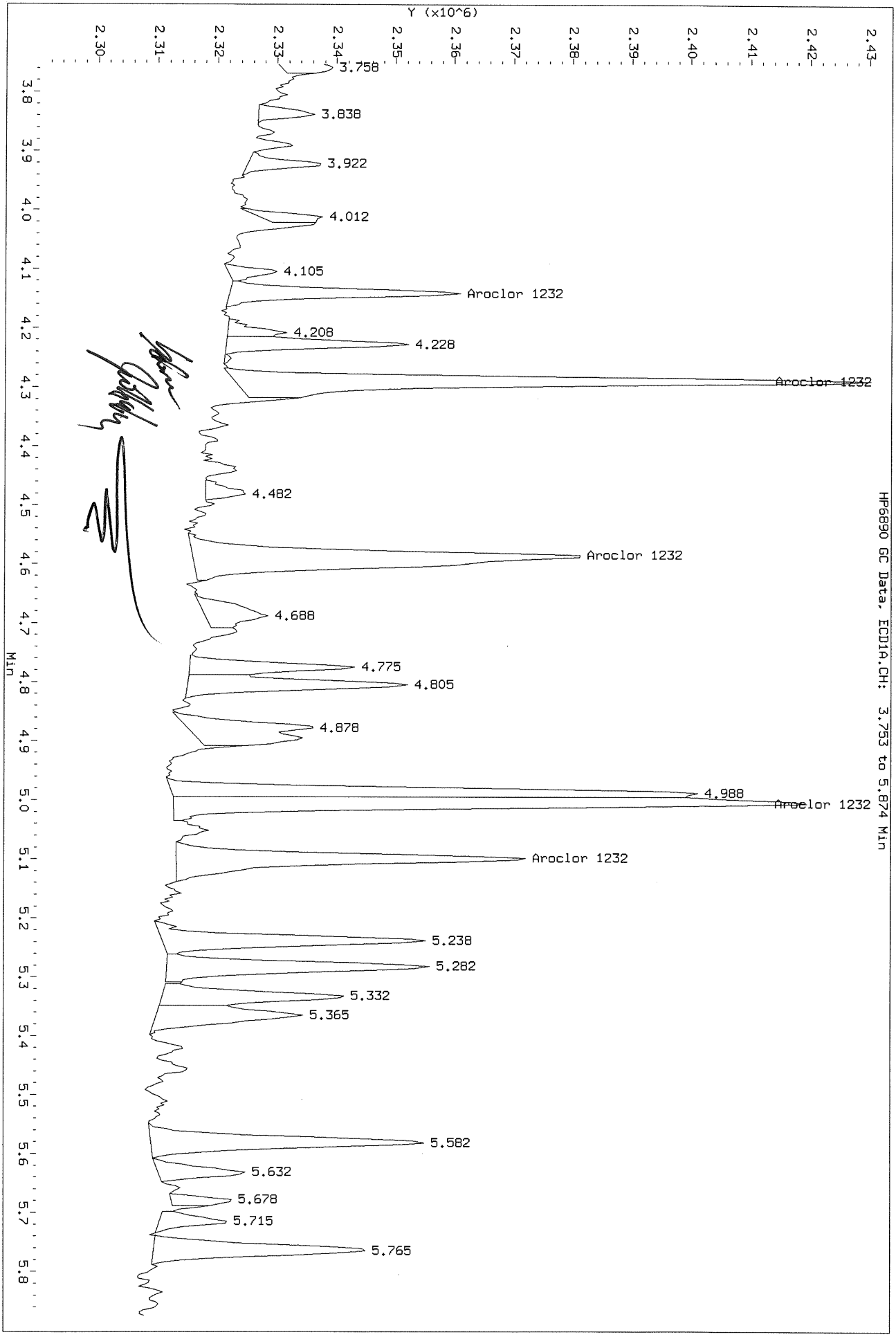
Operator: JMSmith

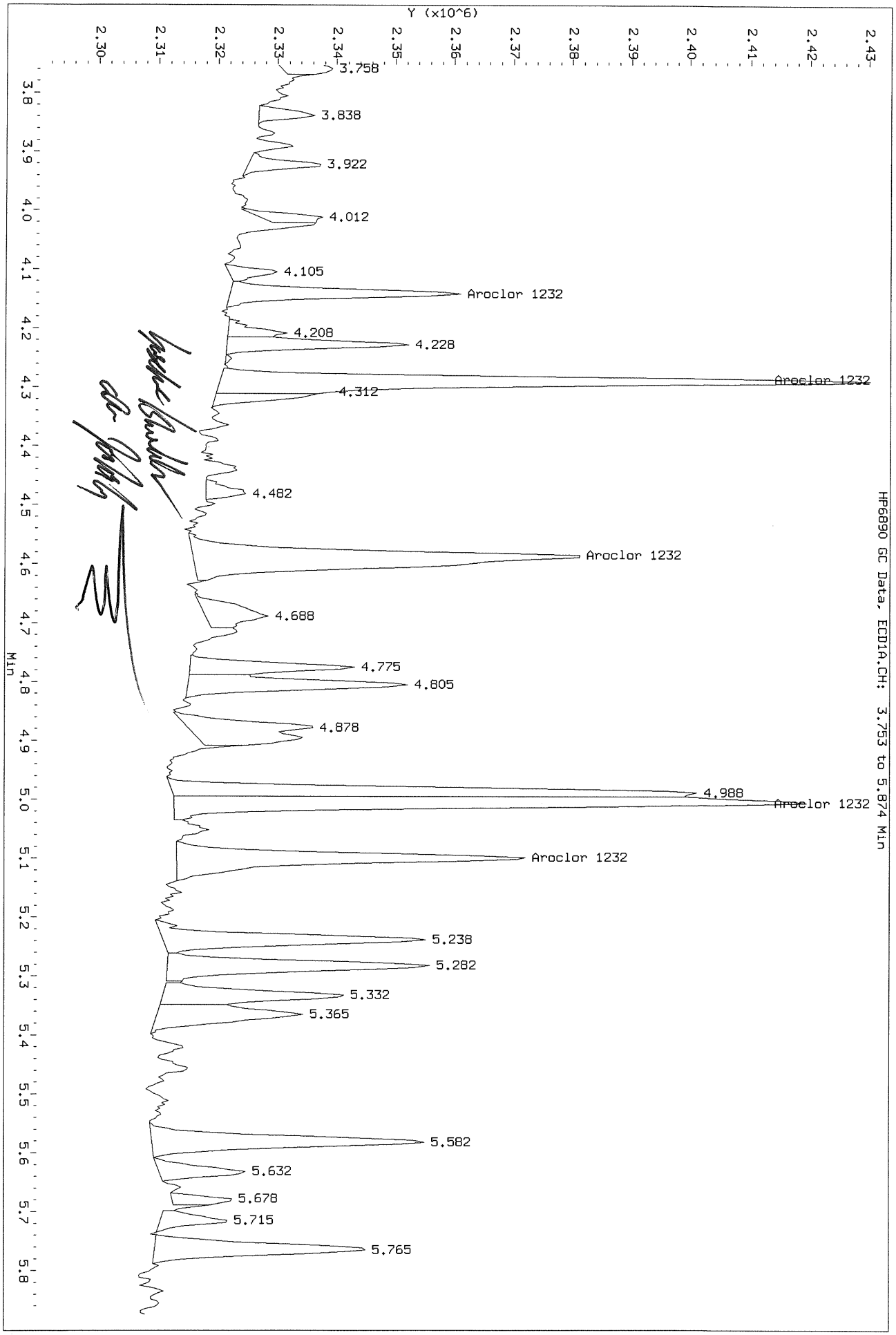
Column phase: DB-XLB

Column diameter: 0.32



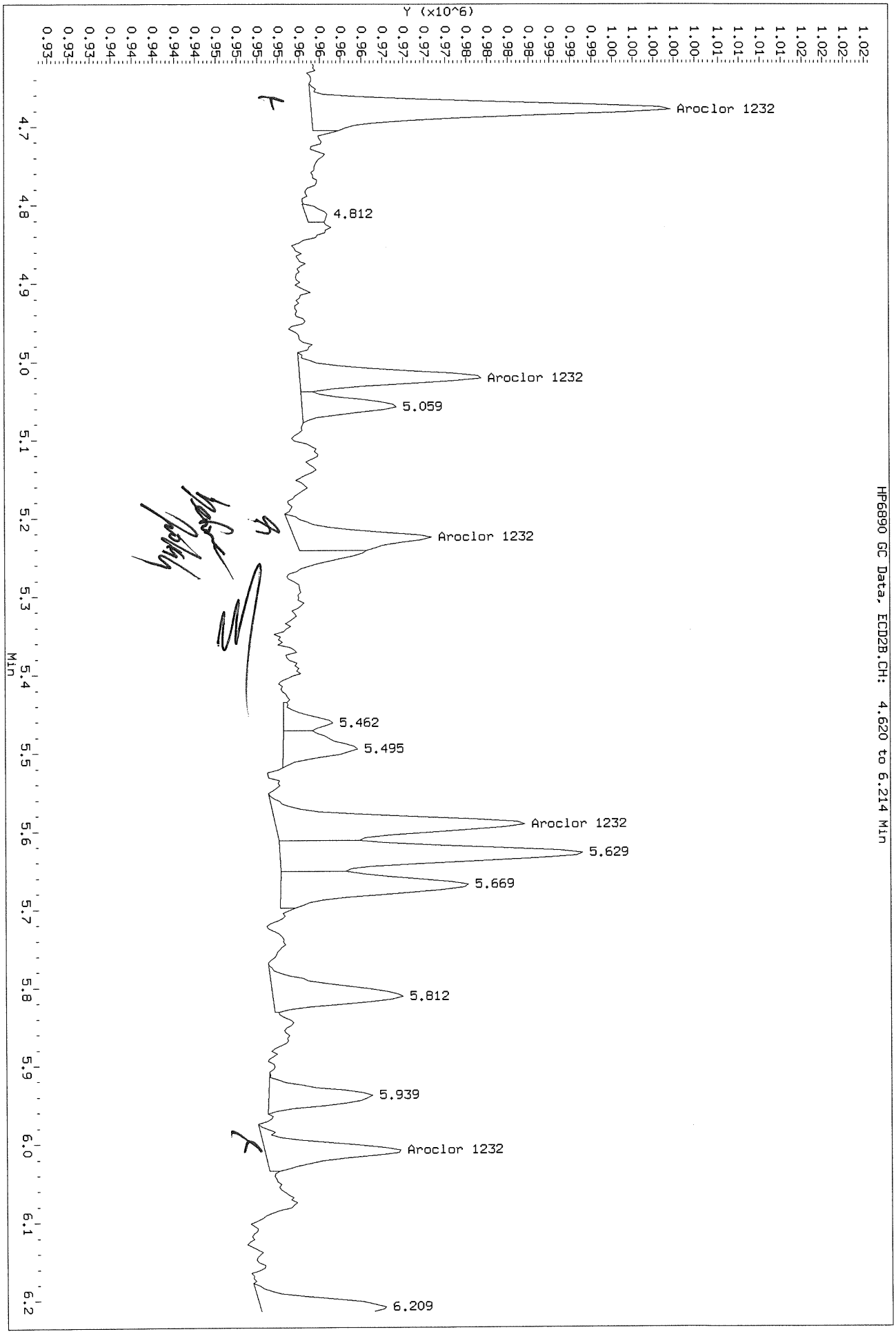
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



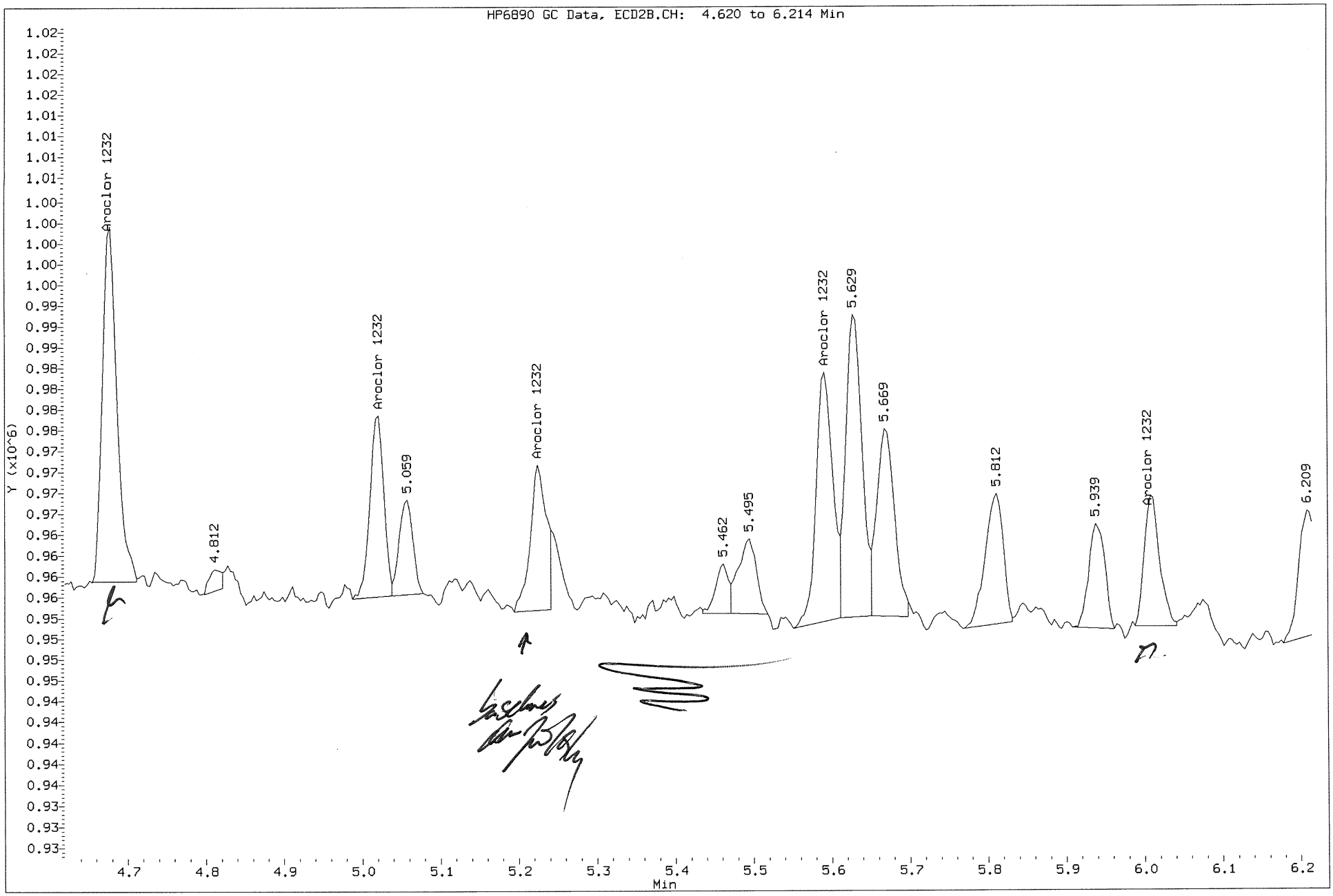

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 3.753 to 5.874 Min
Y (x10^6)
Min
3.758
3.838
3.922
4.012
4.105
Aroclor 1232
4.208
4.228
Aroclor 1232
4.312
4.482
Aroclor 1232
4.688
4.775
4.805
4.878
4.988
Aroclor 1232
Aroclor 1232
5.238
5.282
5.332
5.365
5.582
5.632
5.678
5.715
5.765

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.620 to 6.214 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

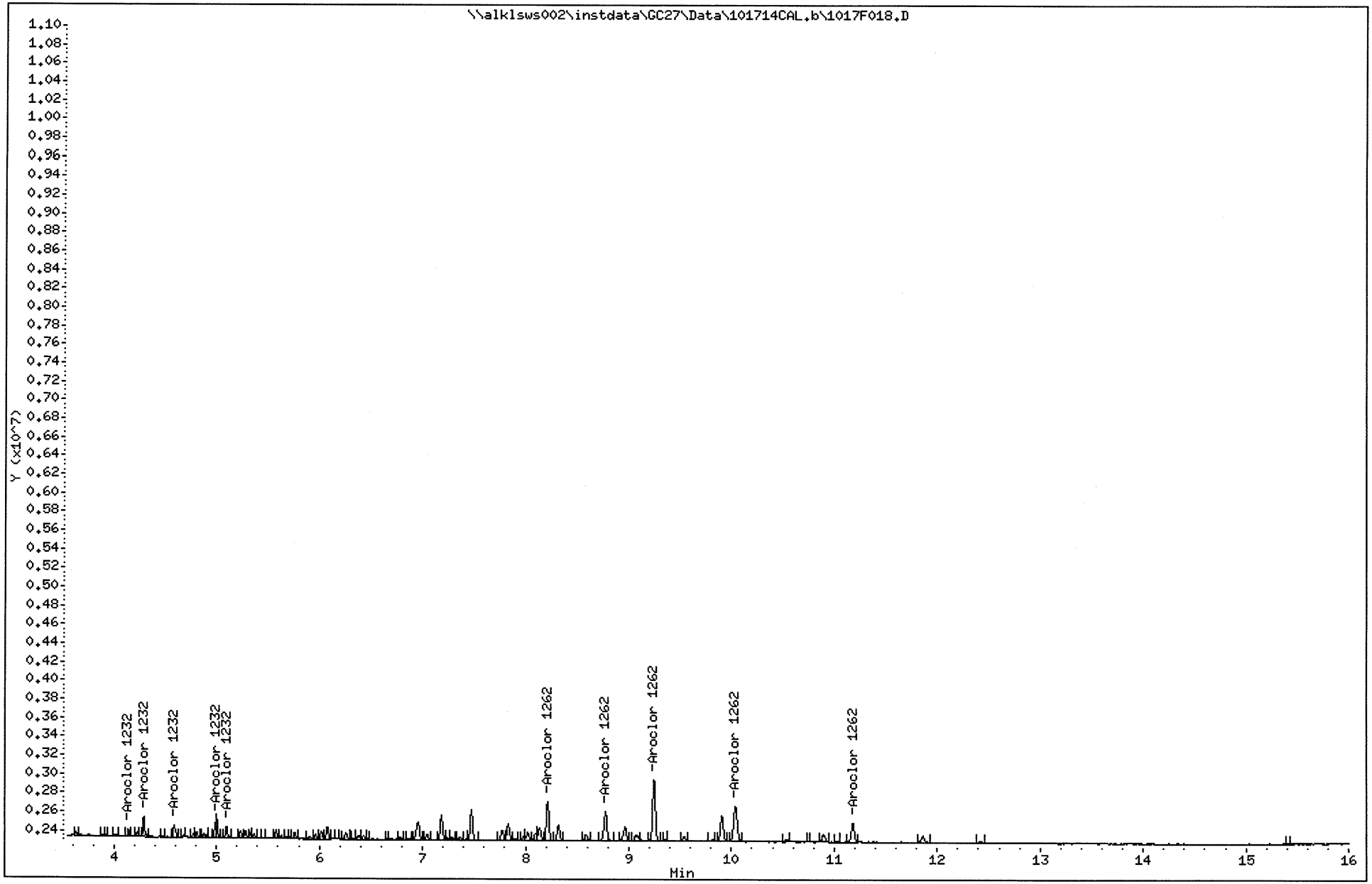
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

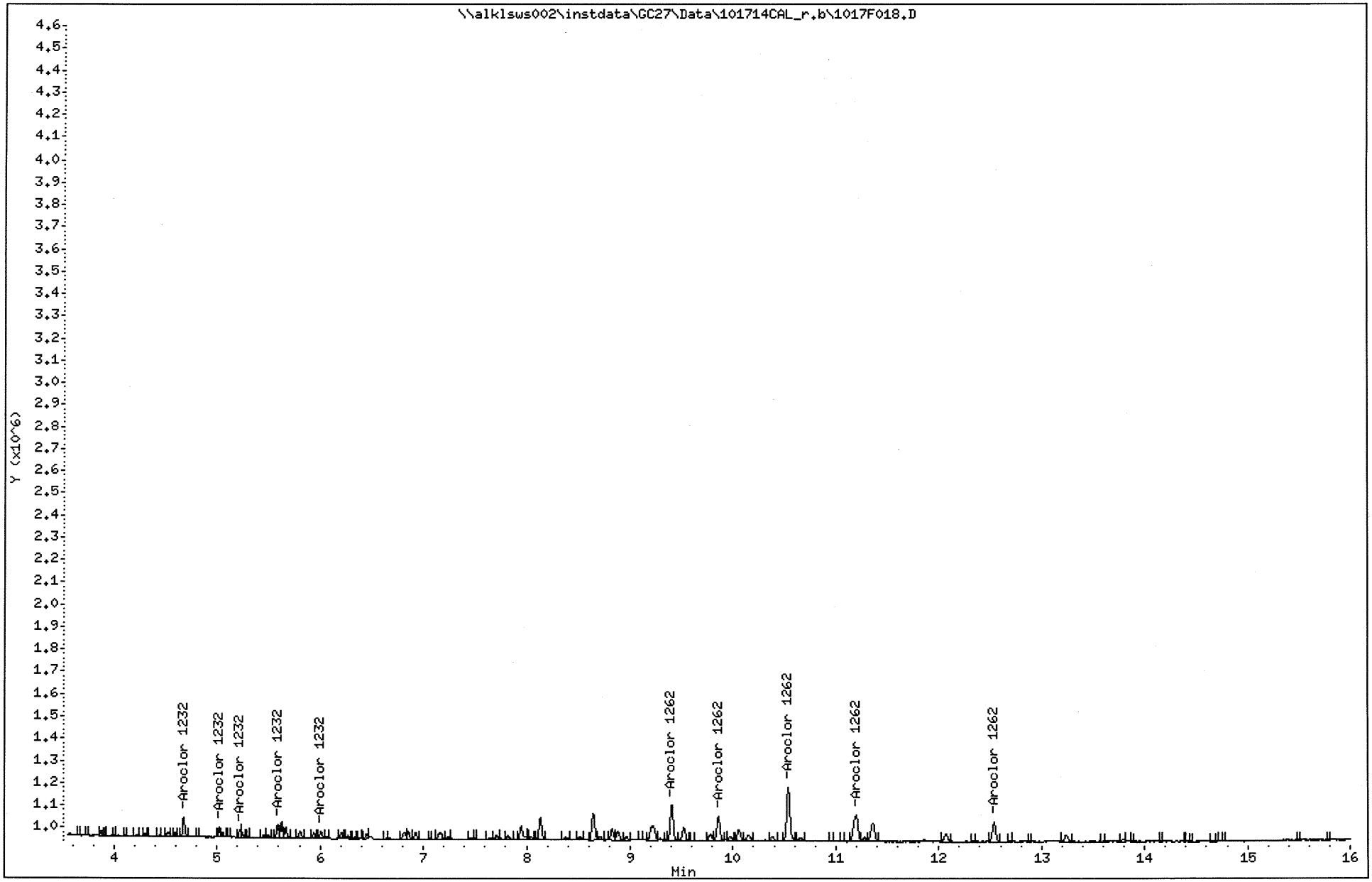
Column phase: DB-35MS

Column diameter: 0.32

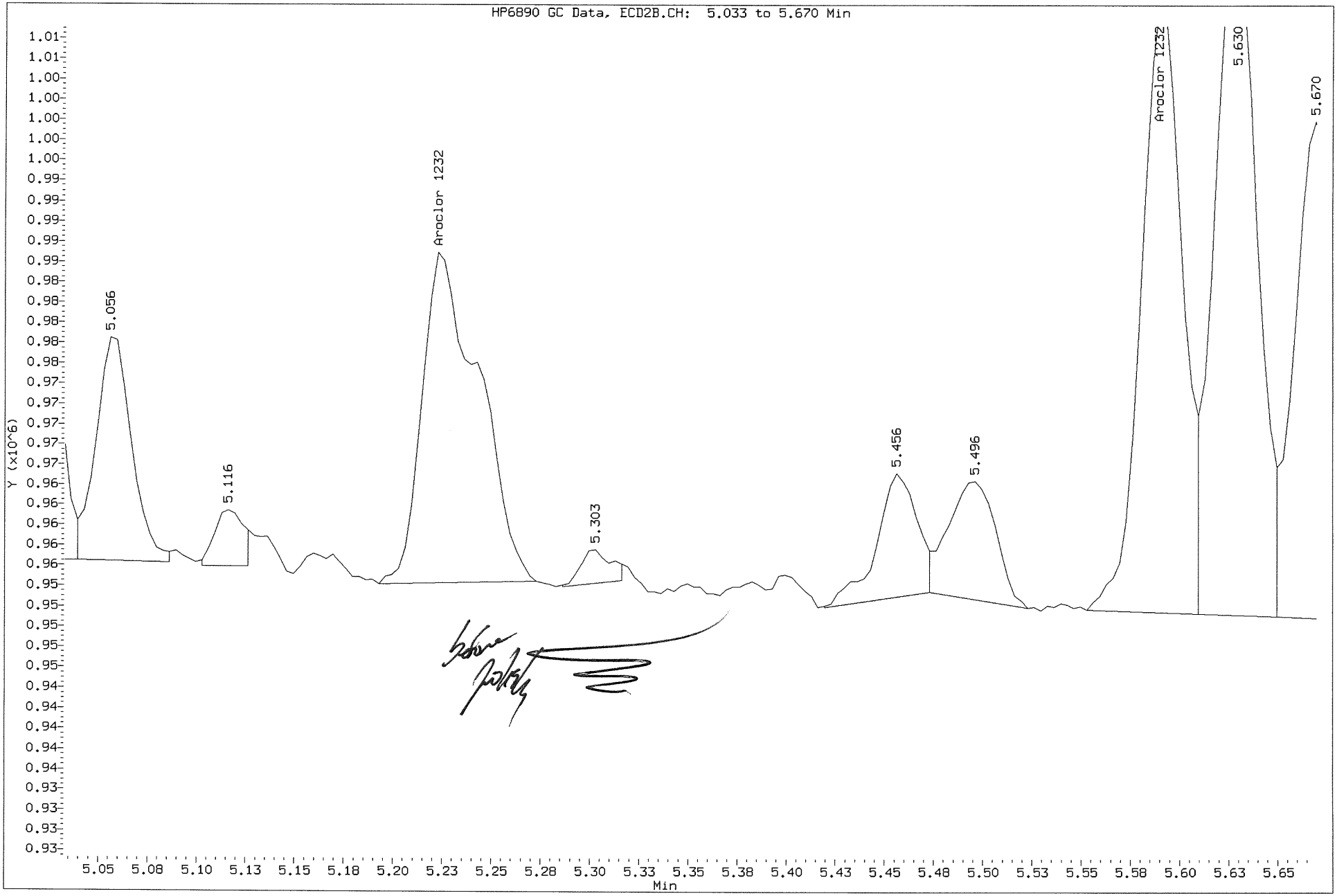


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

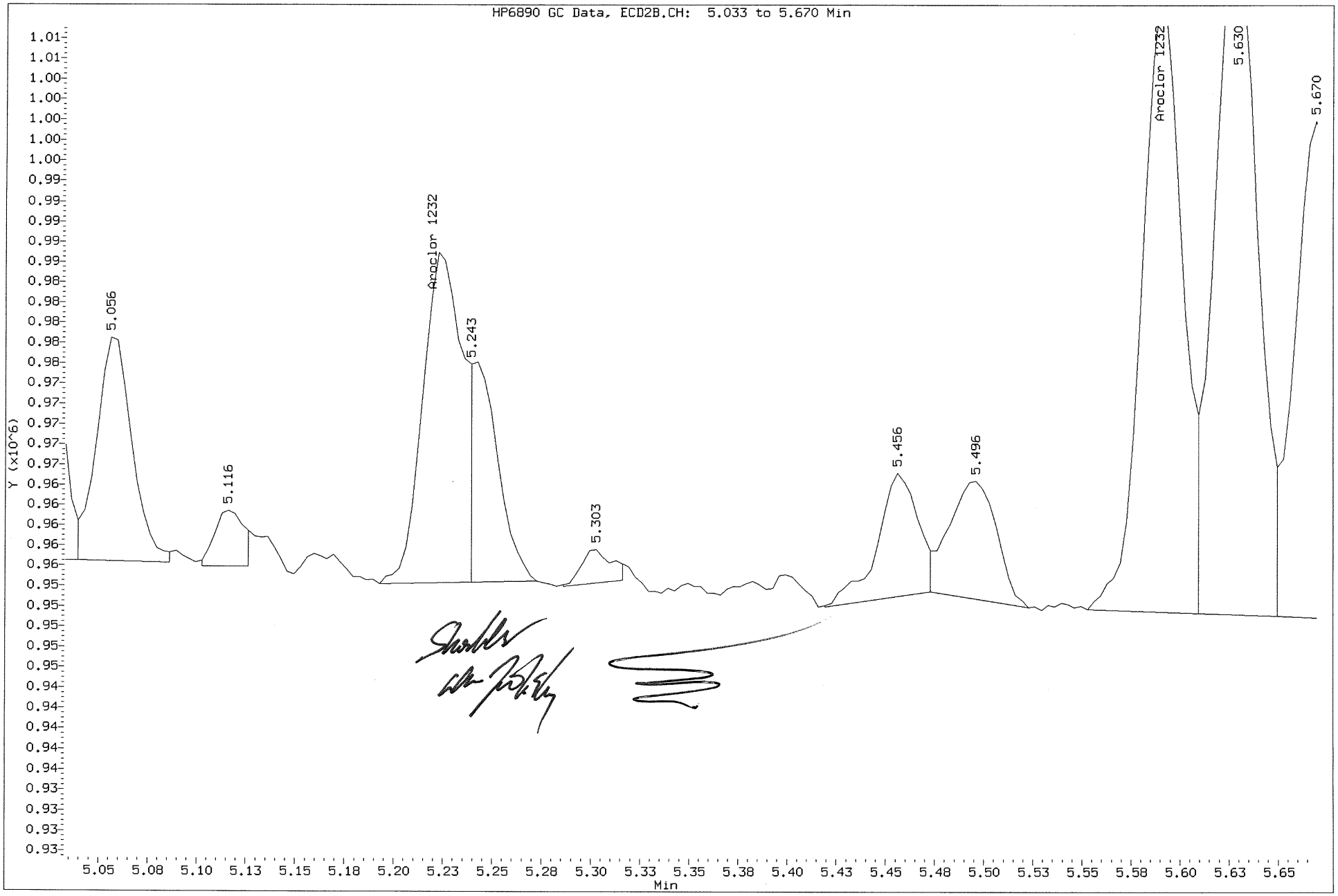
Instrument: GC27.i
Operator: JMSmith
Column phase: DB-XLB
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

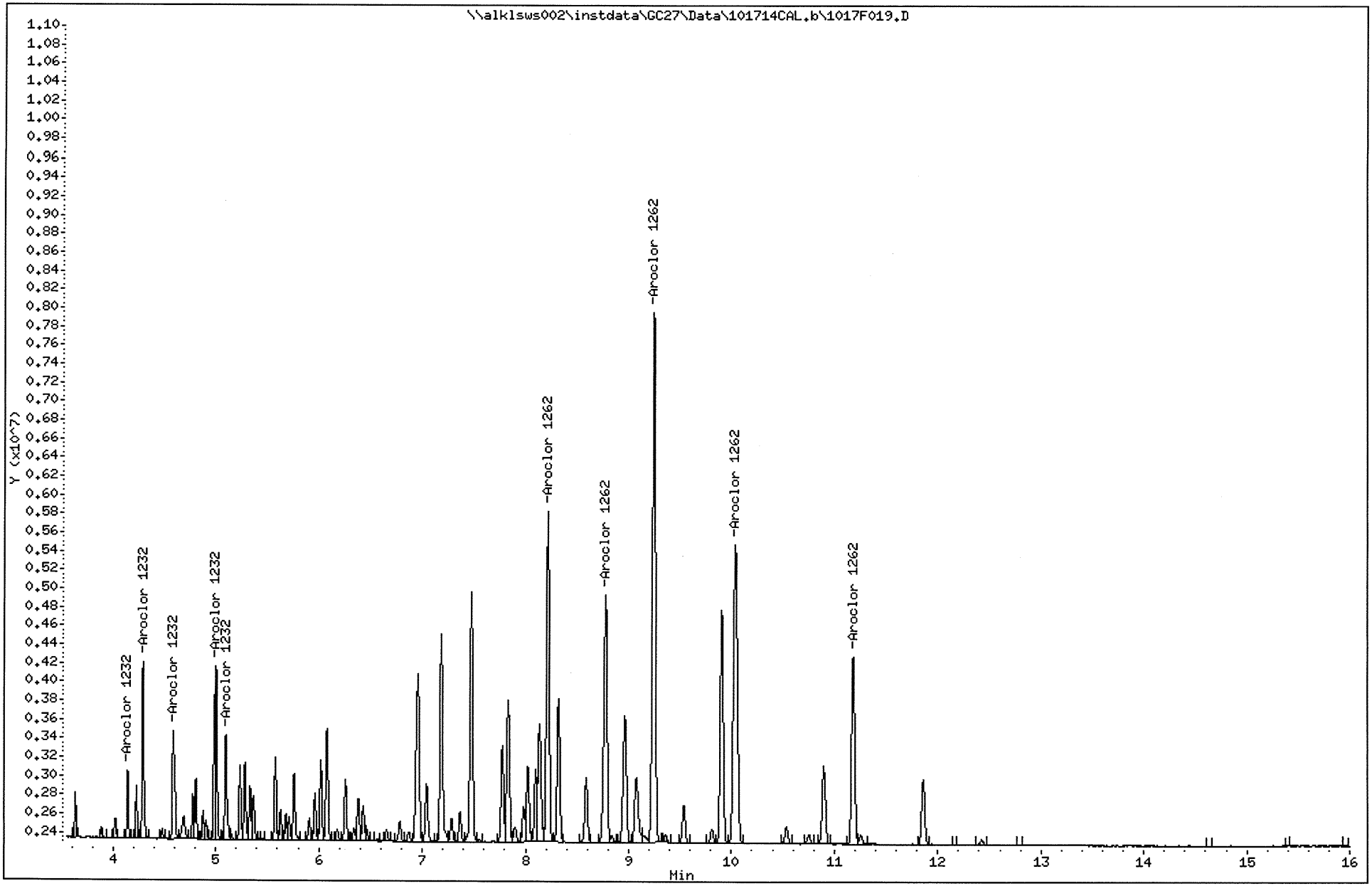
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



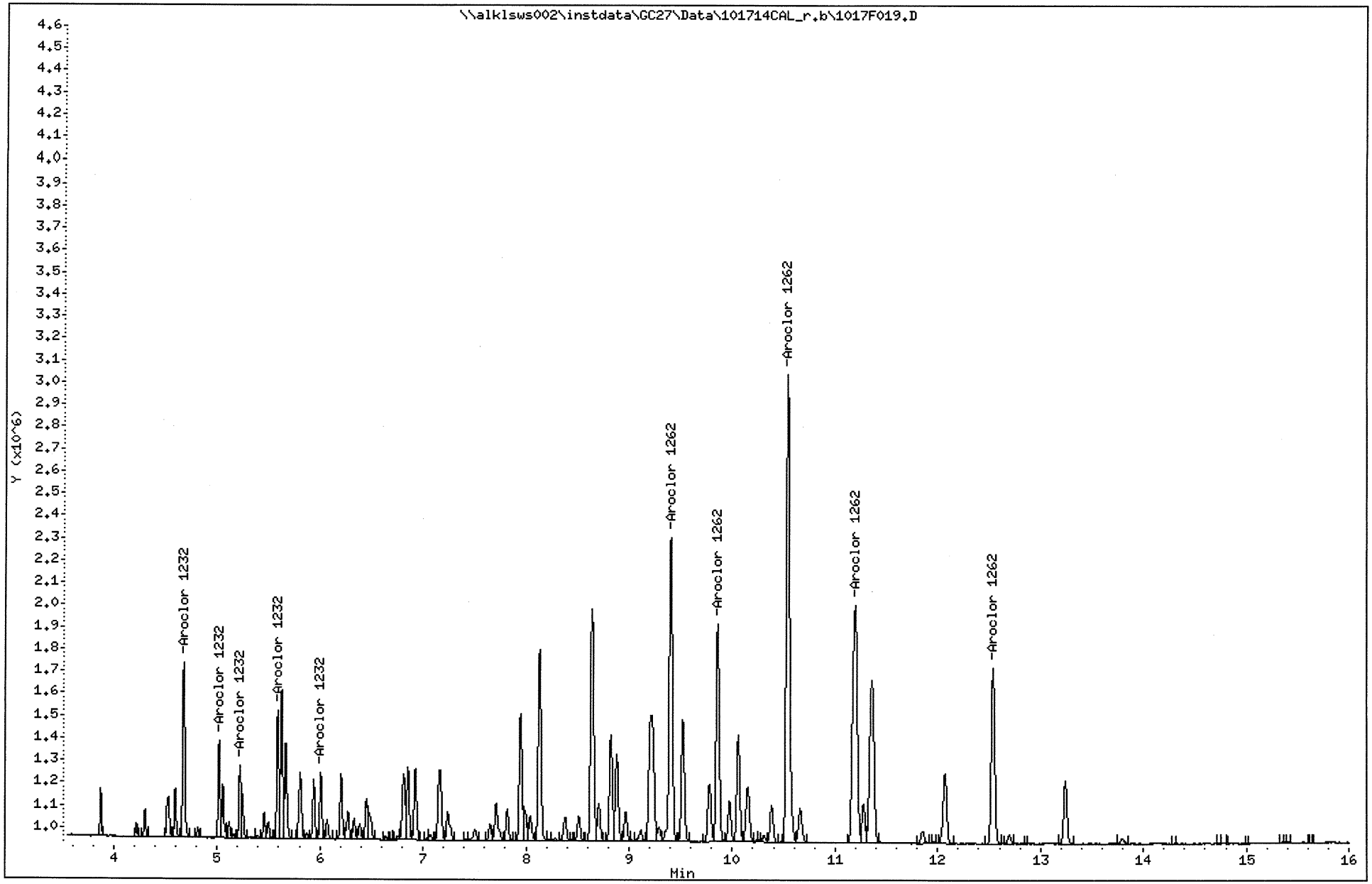
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

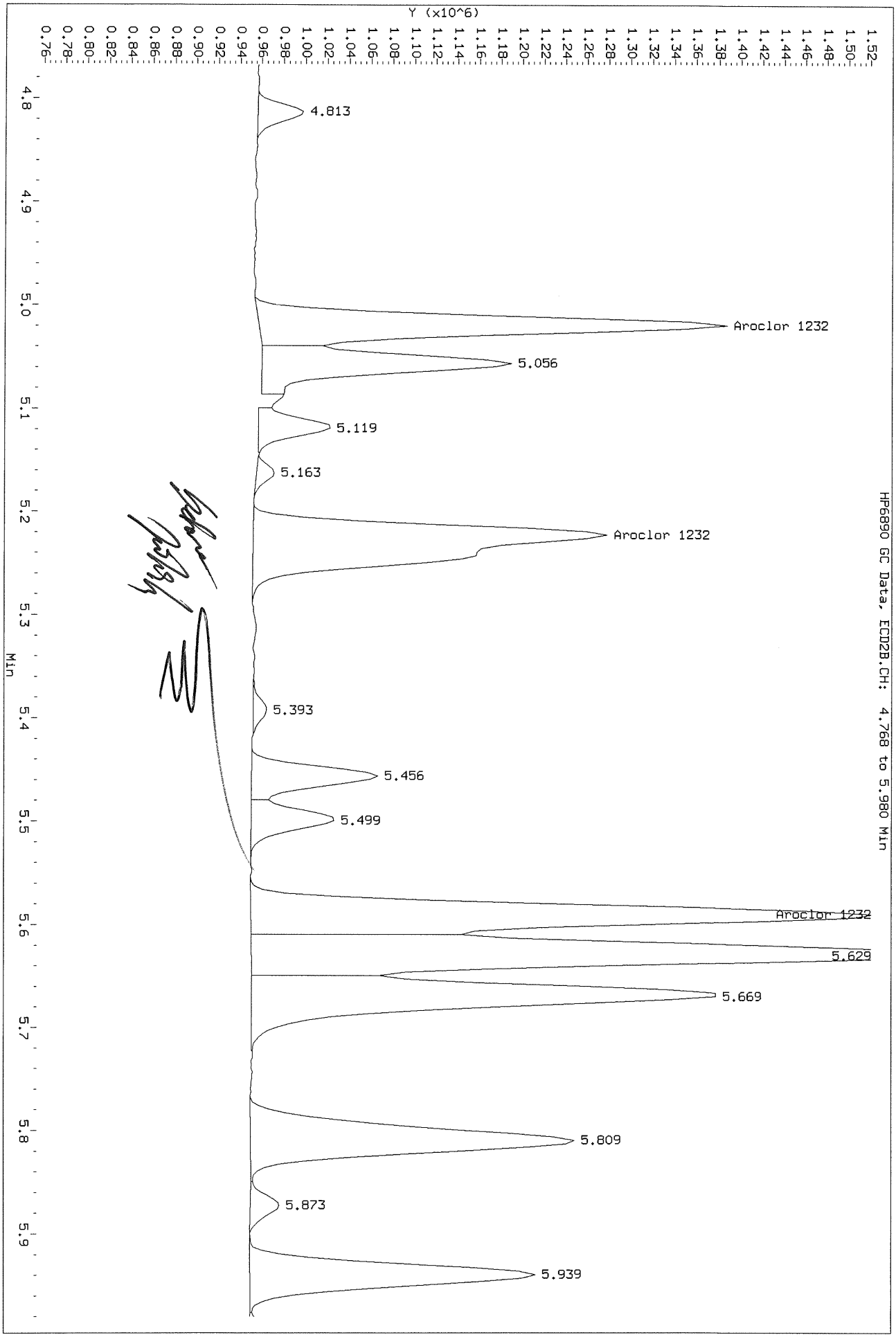
Column phase: DB-XLB

Column diameter: 0.32

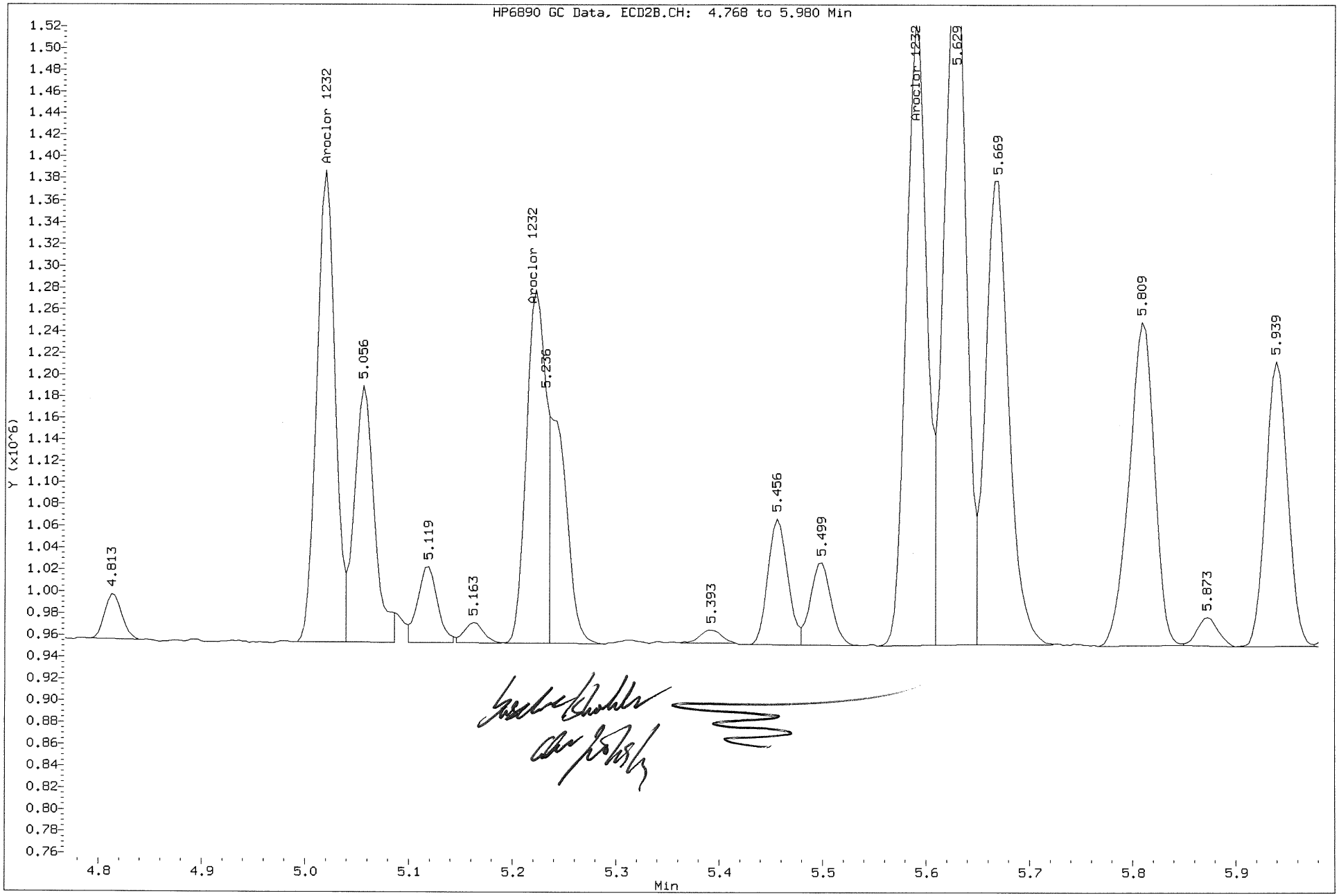


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

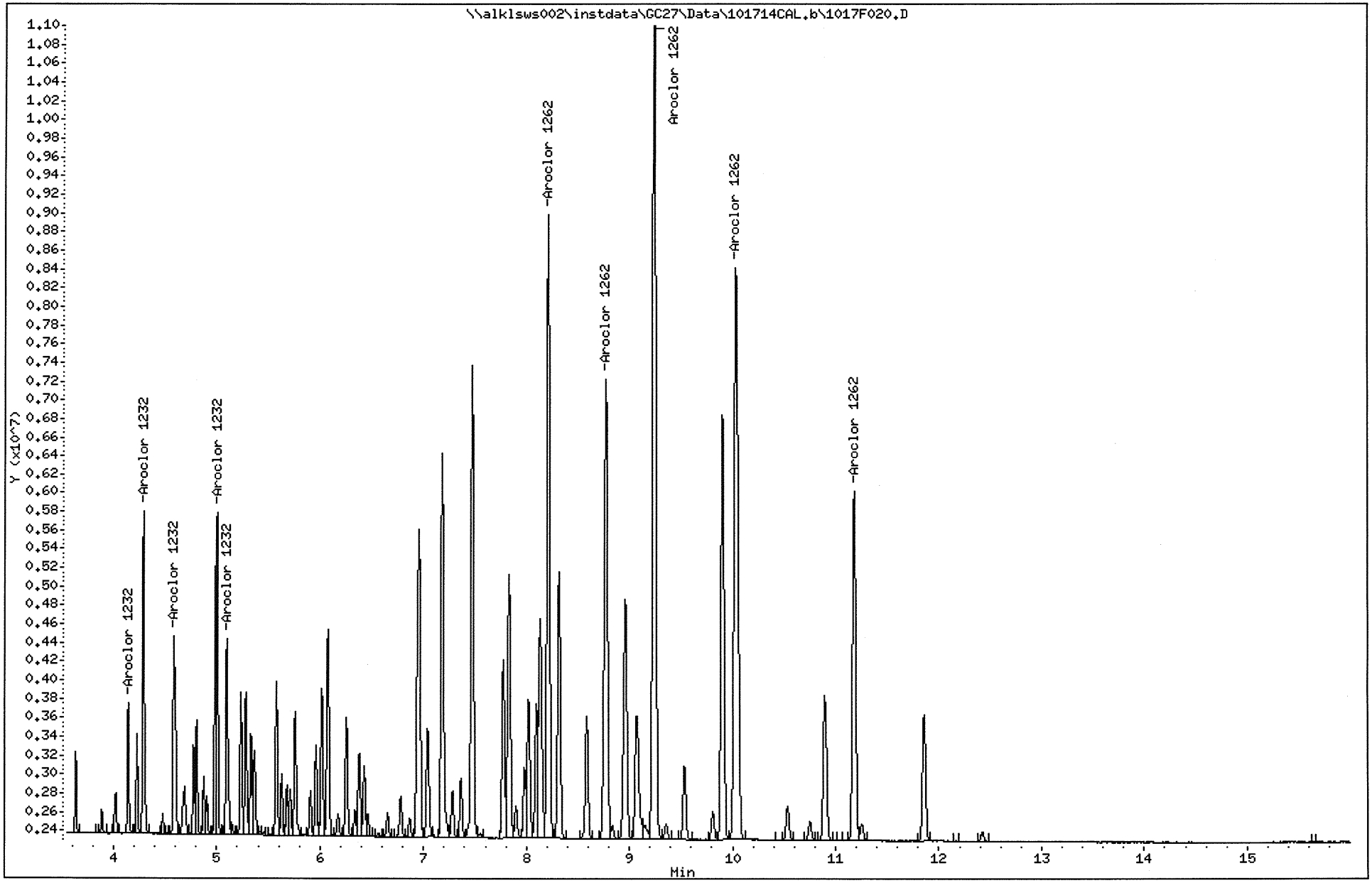
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

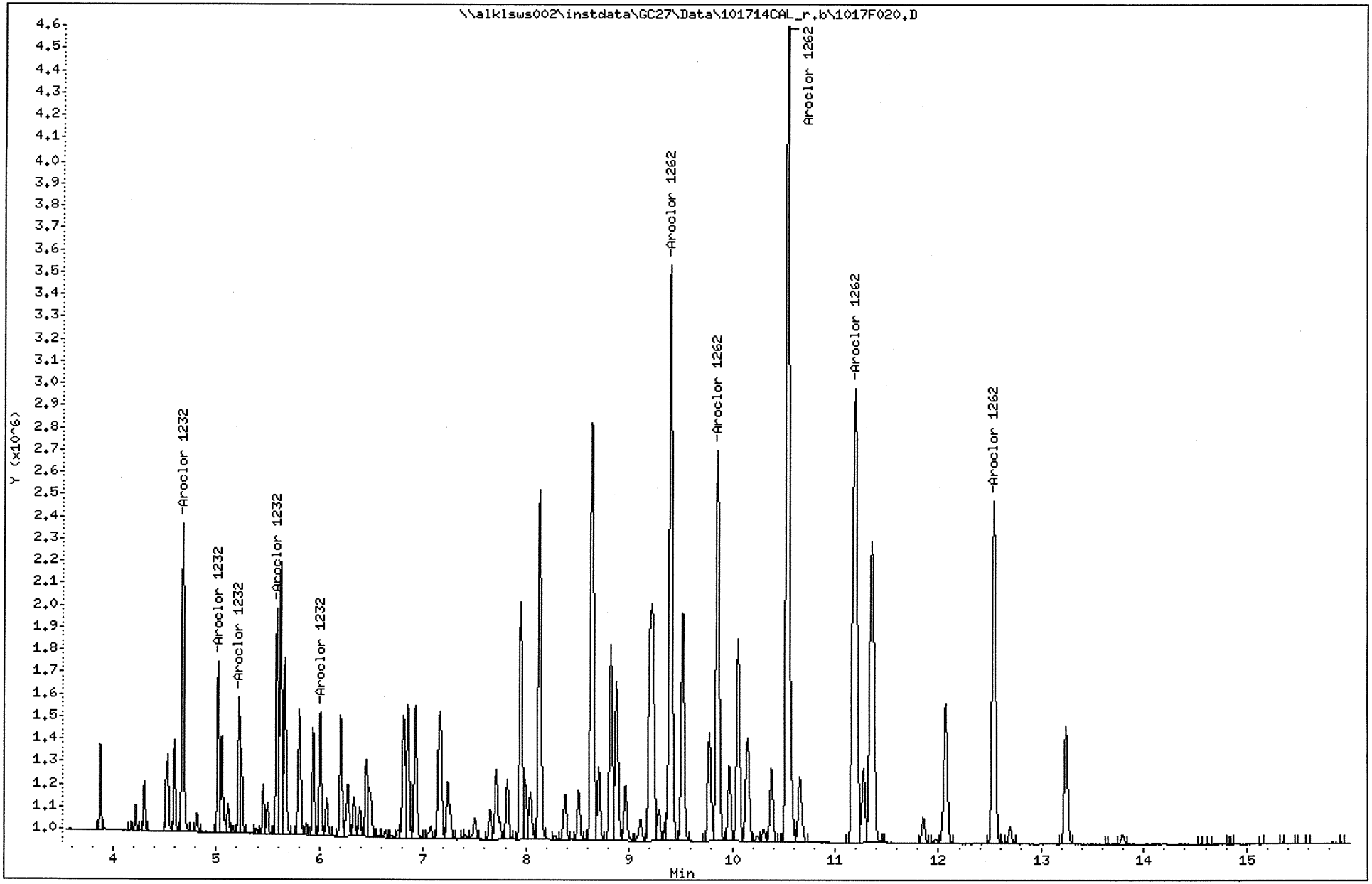


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

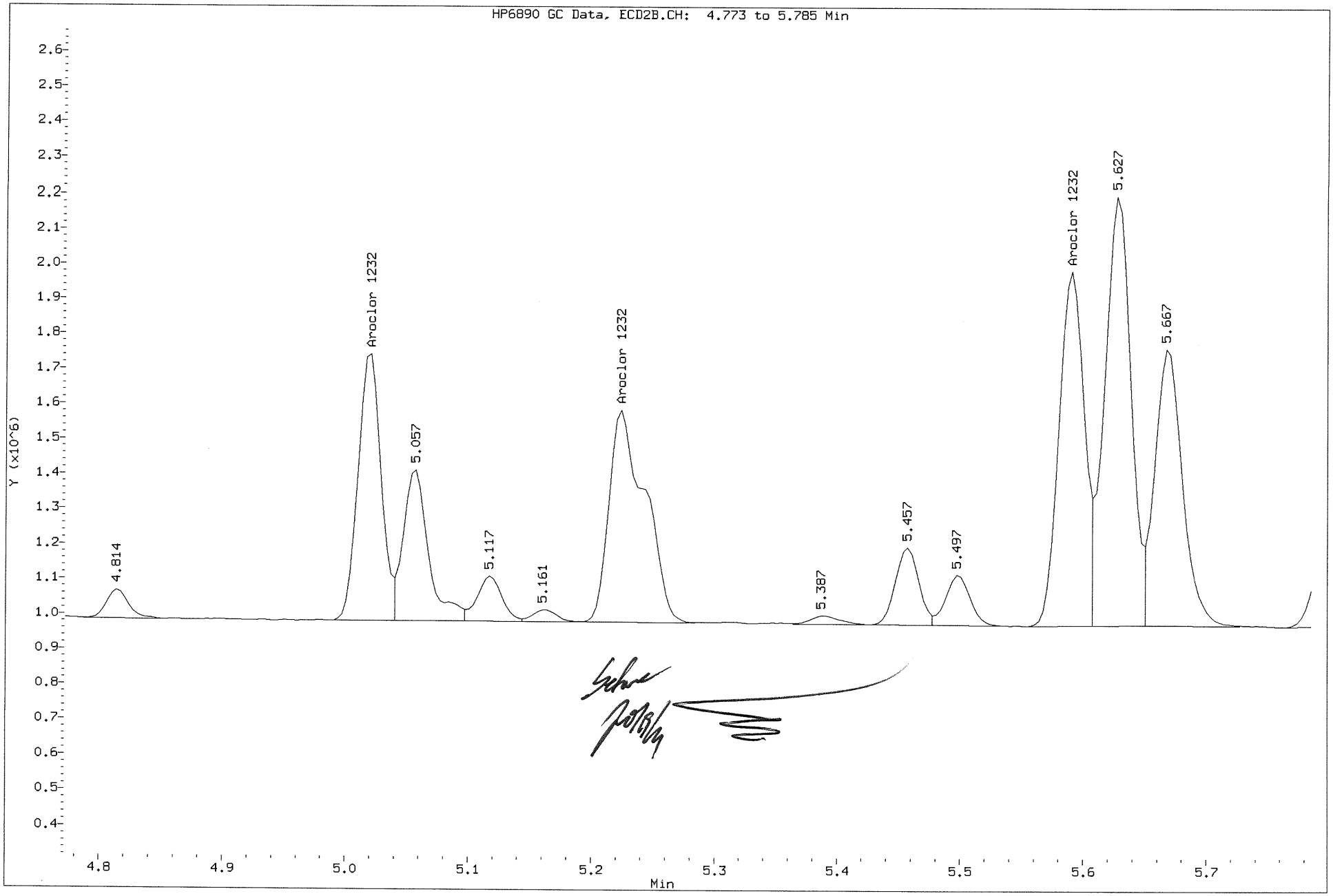
Column phase: DB-XLB

Instrument: GC27.i

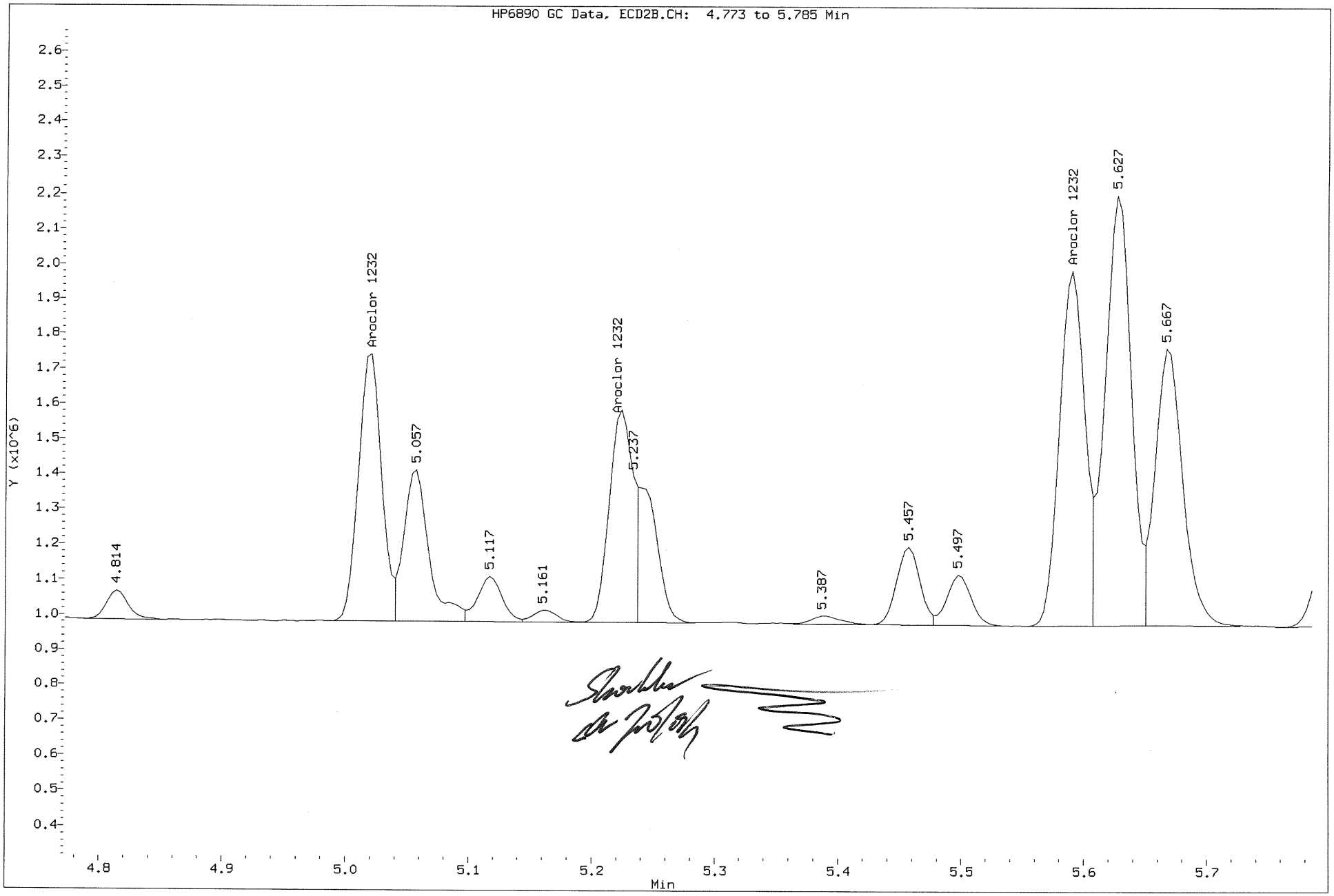
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

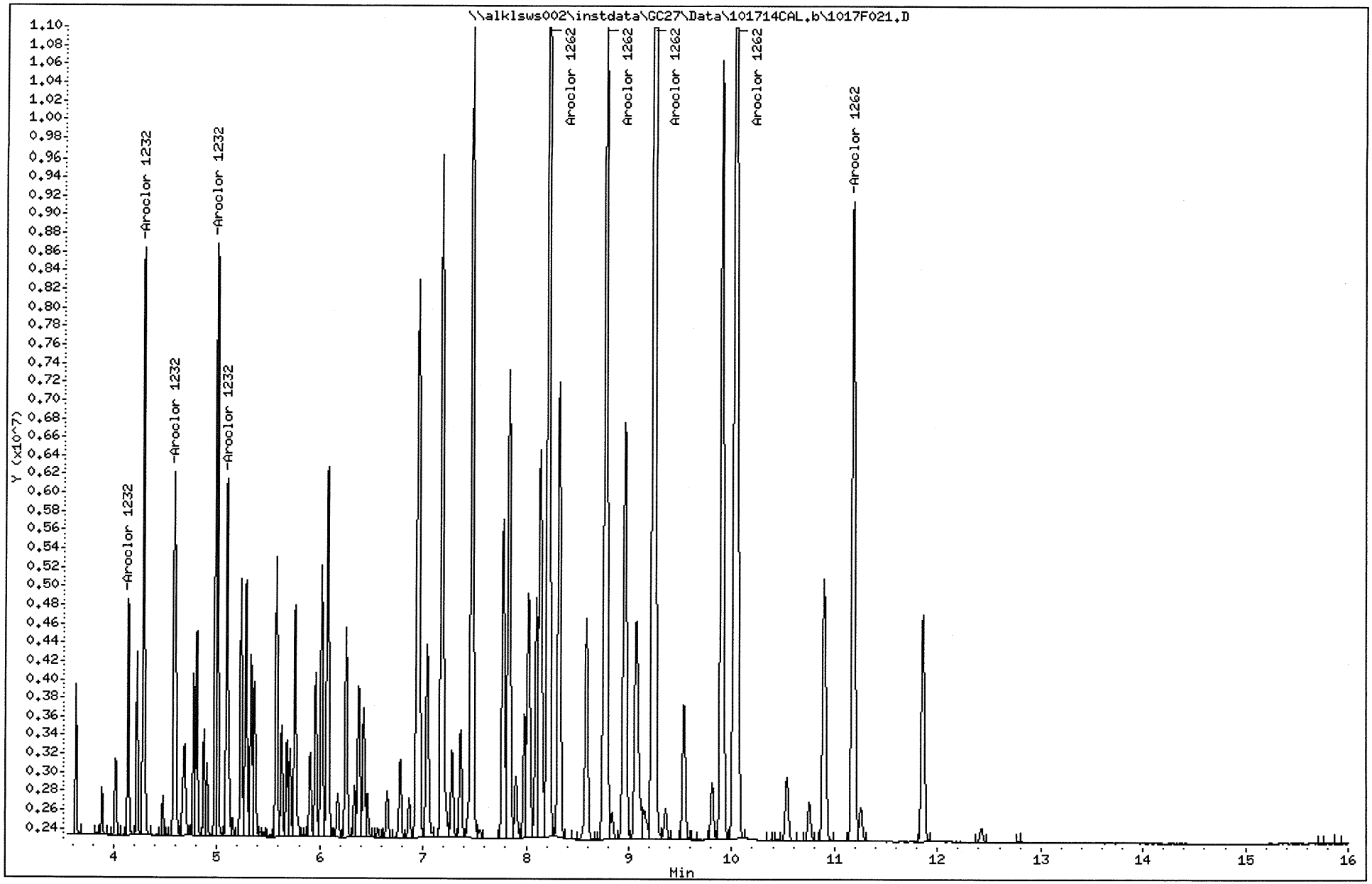
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

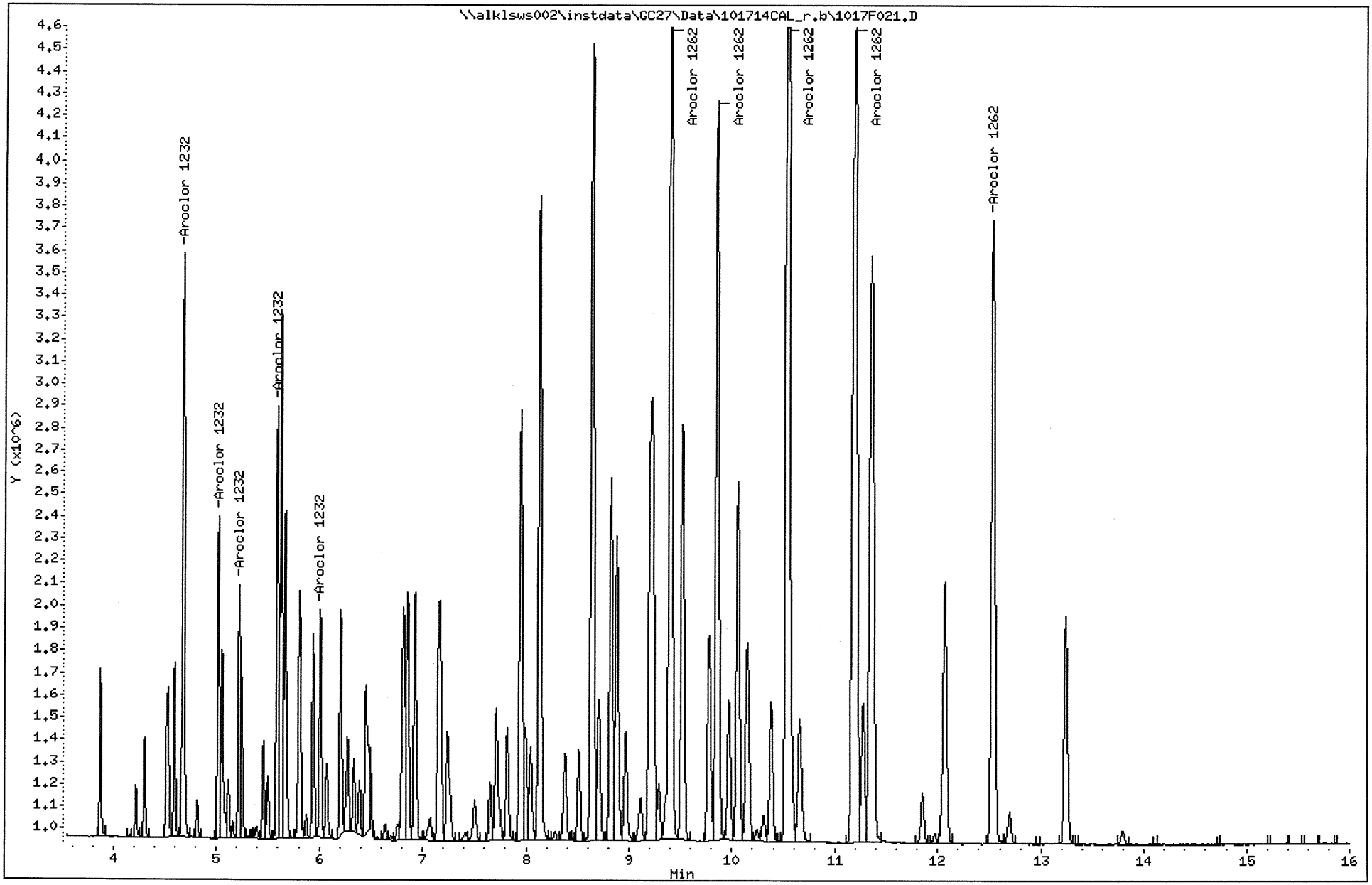


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

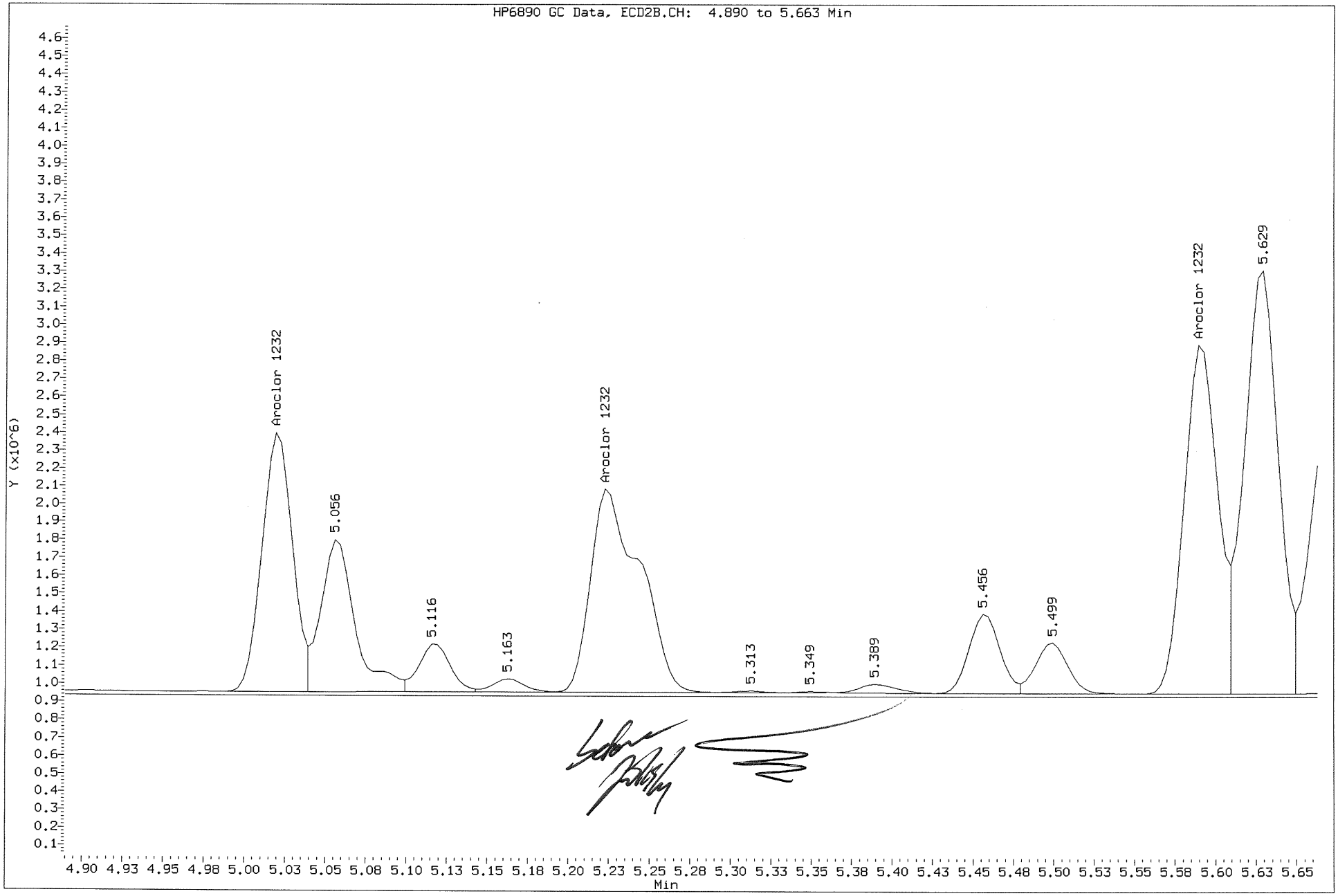
Column phase: DB-XLB

Instrument: GC27.i

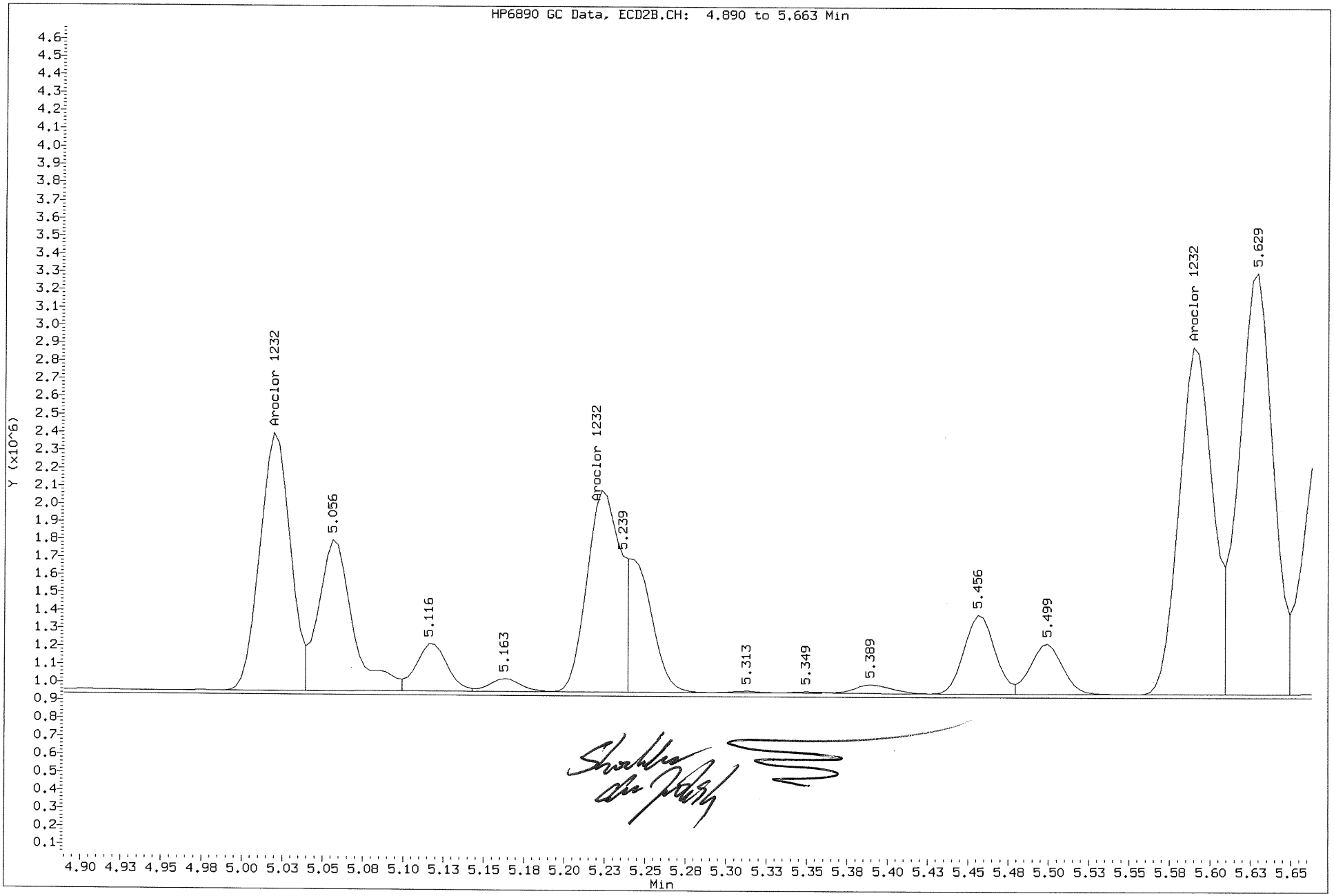
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

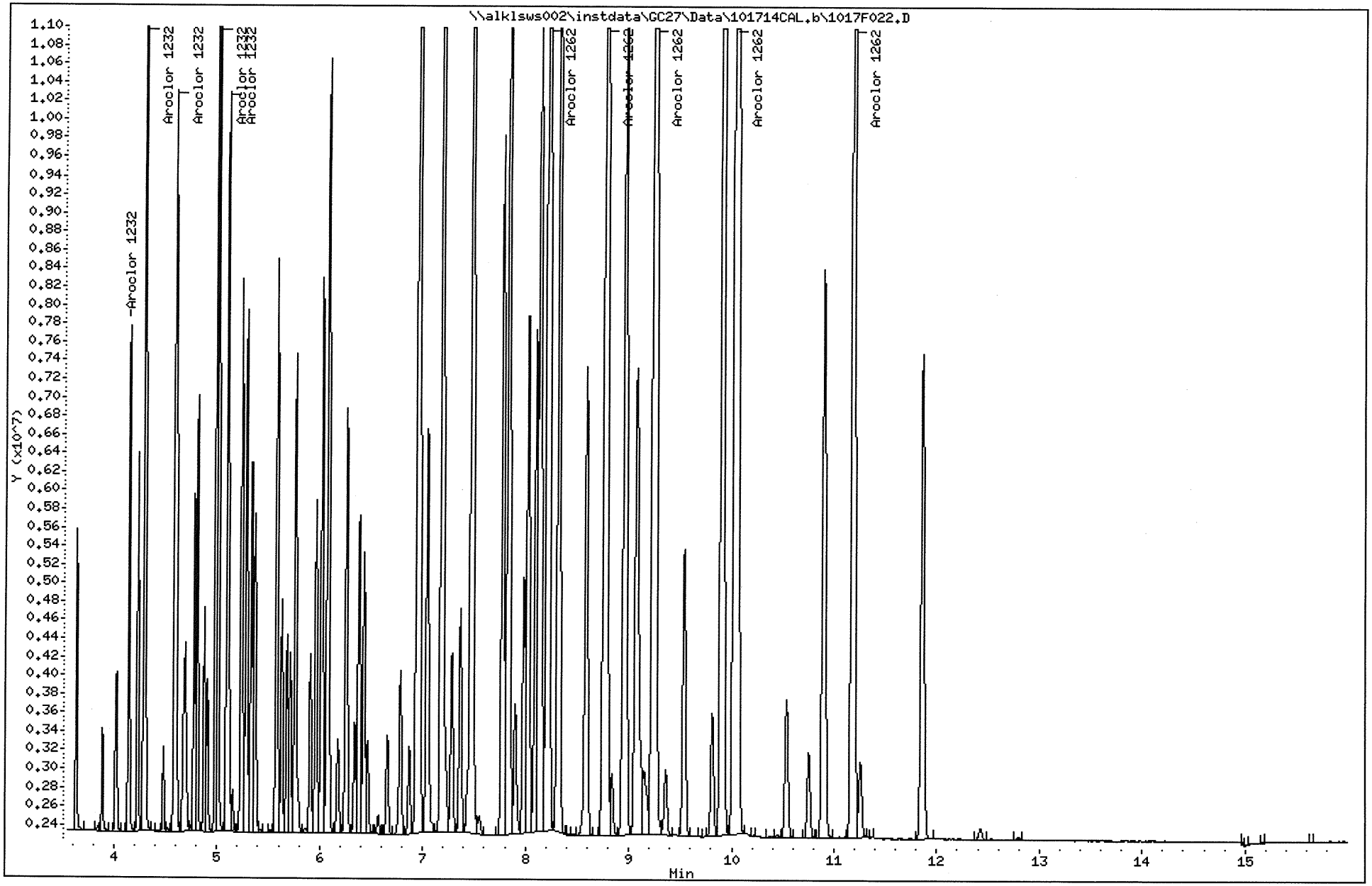
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



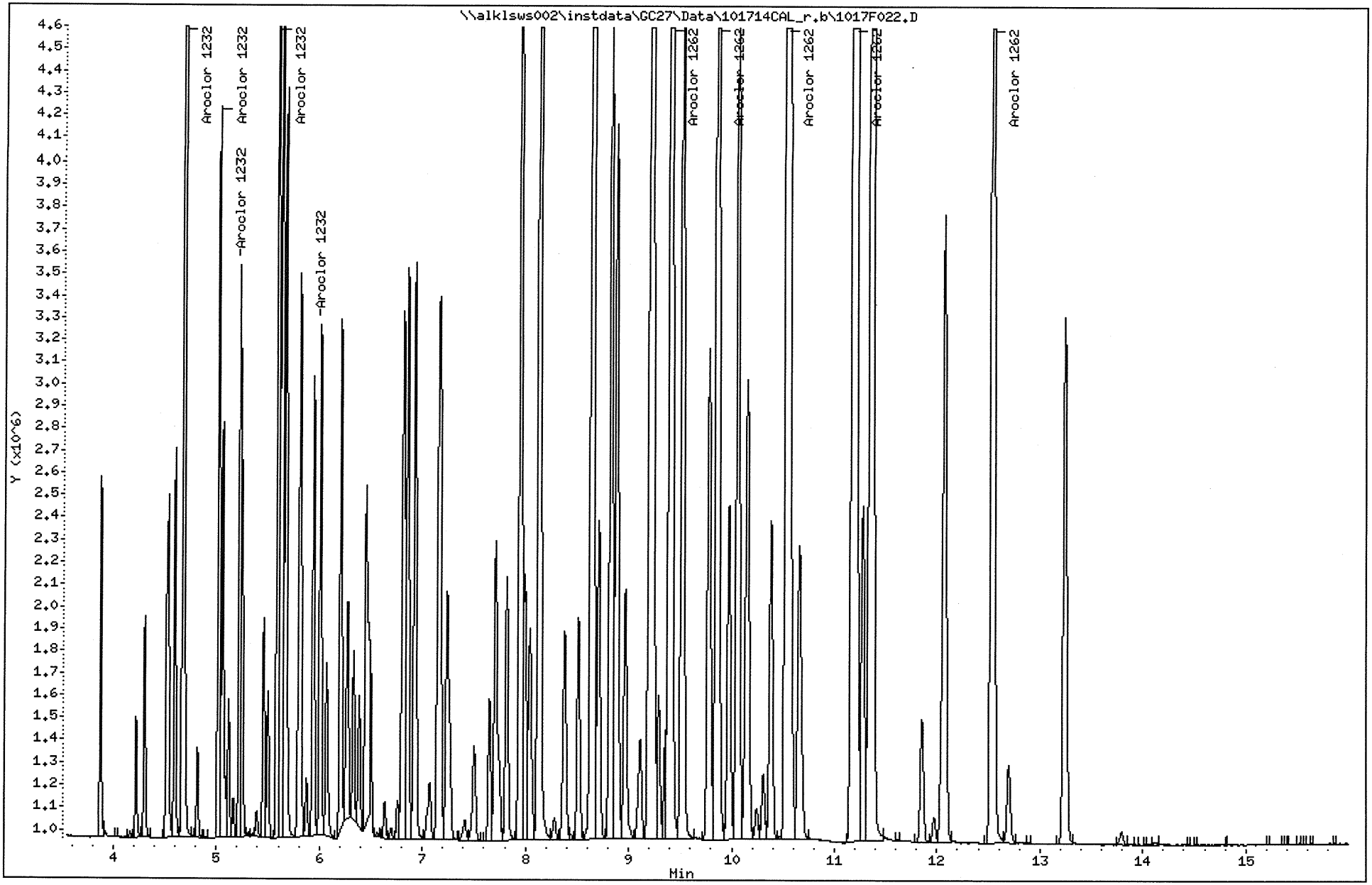
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

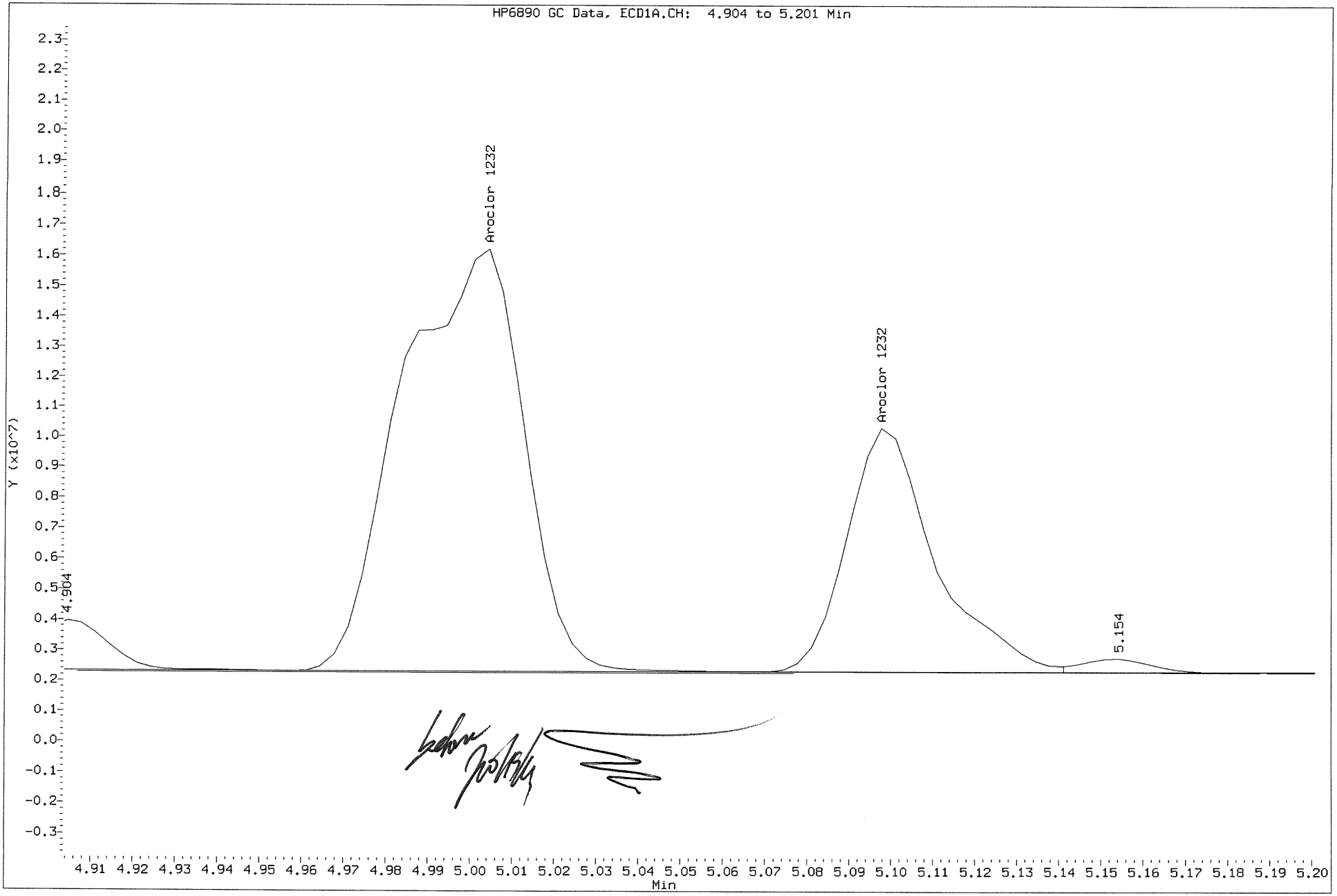
Operator: JMSmith

Column phase: DB-XLB

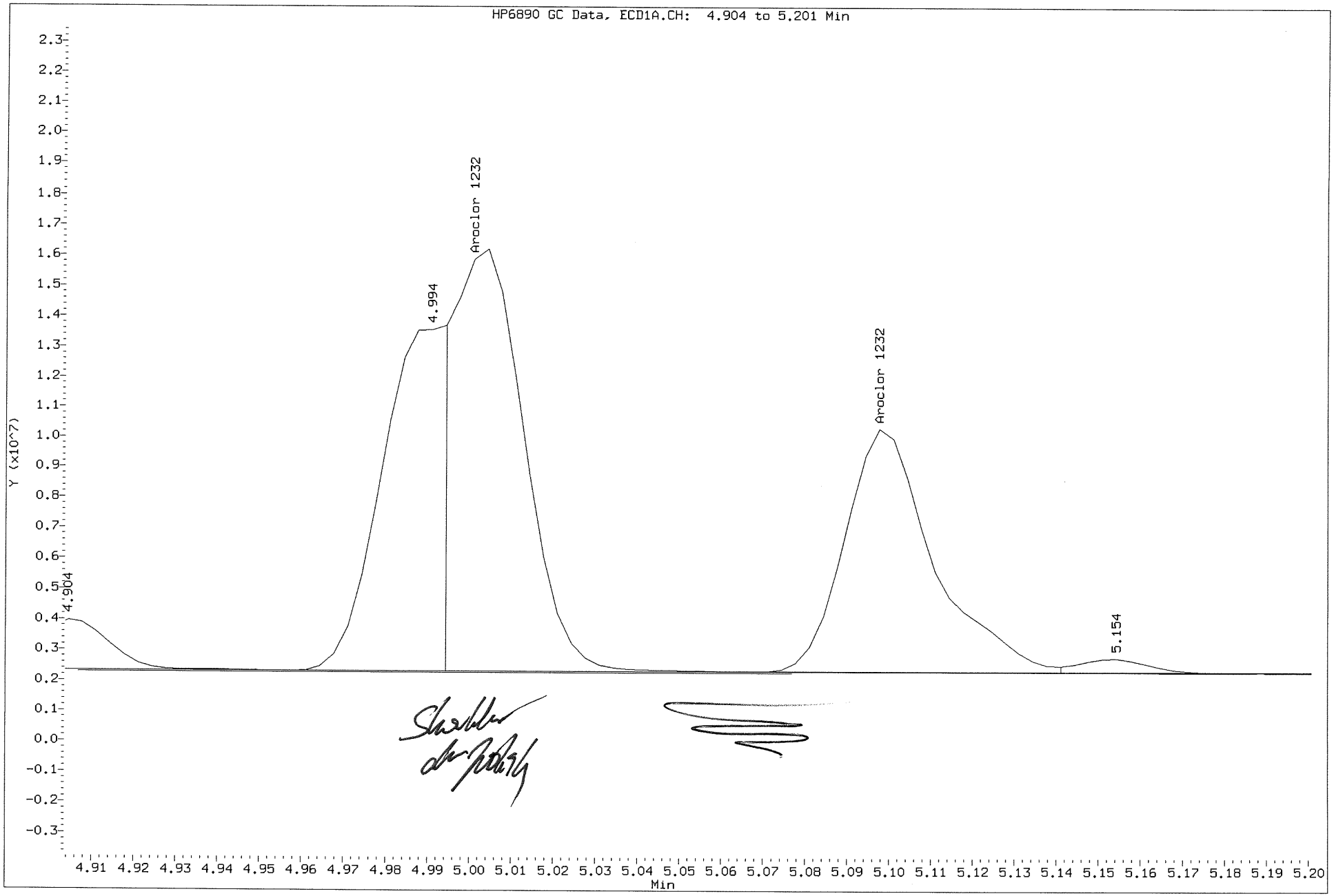
Column diameter: 0.32



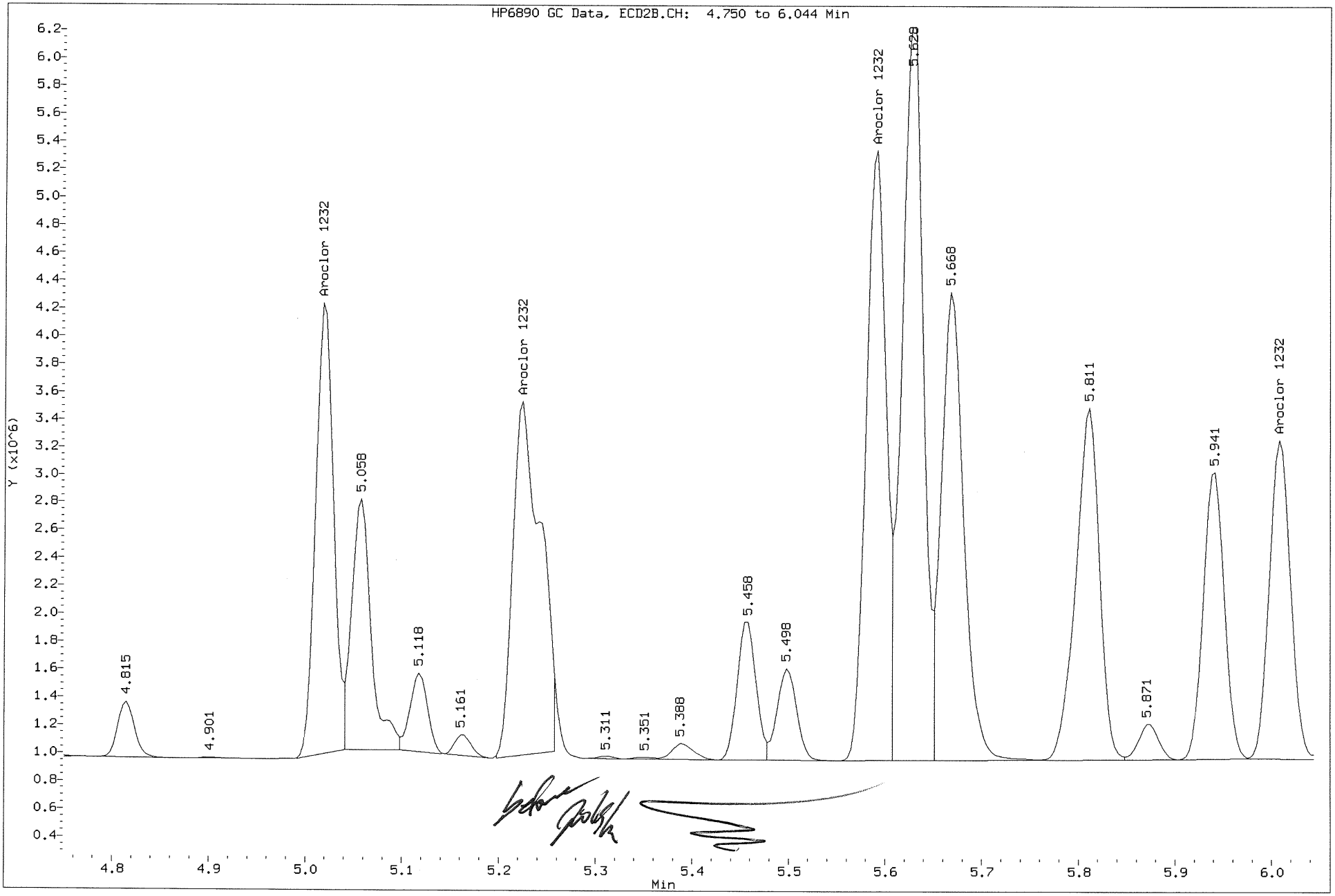
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

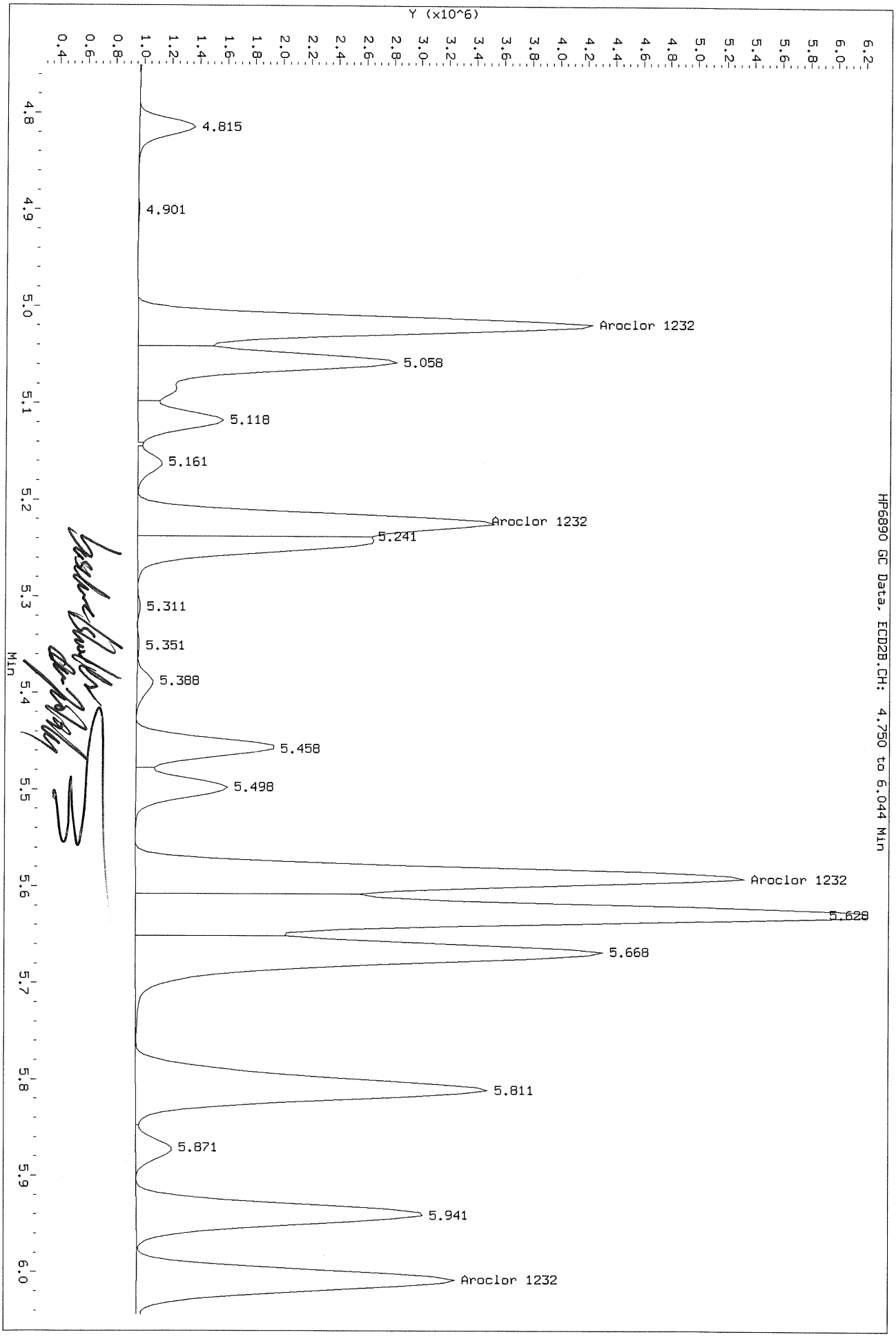


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

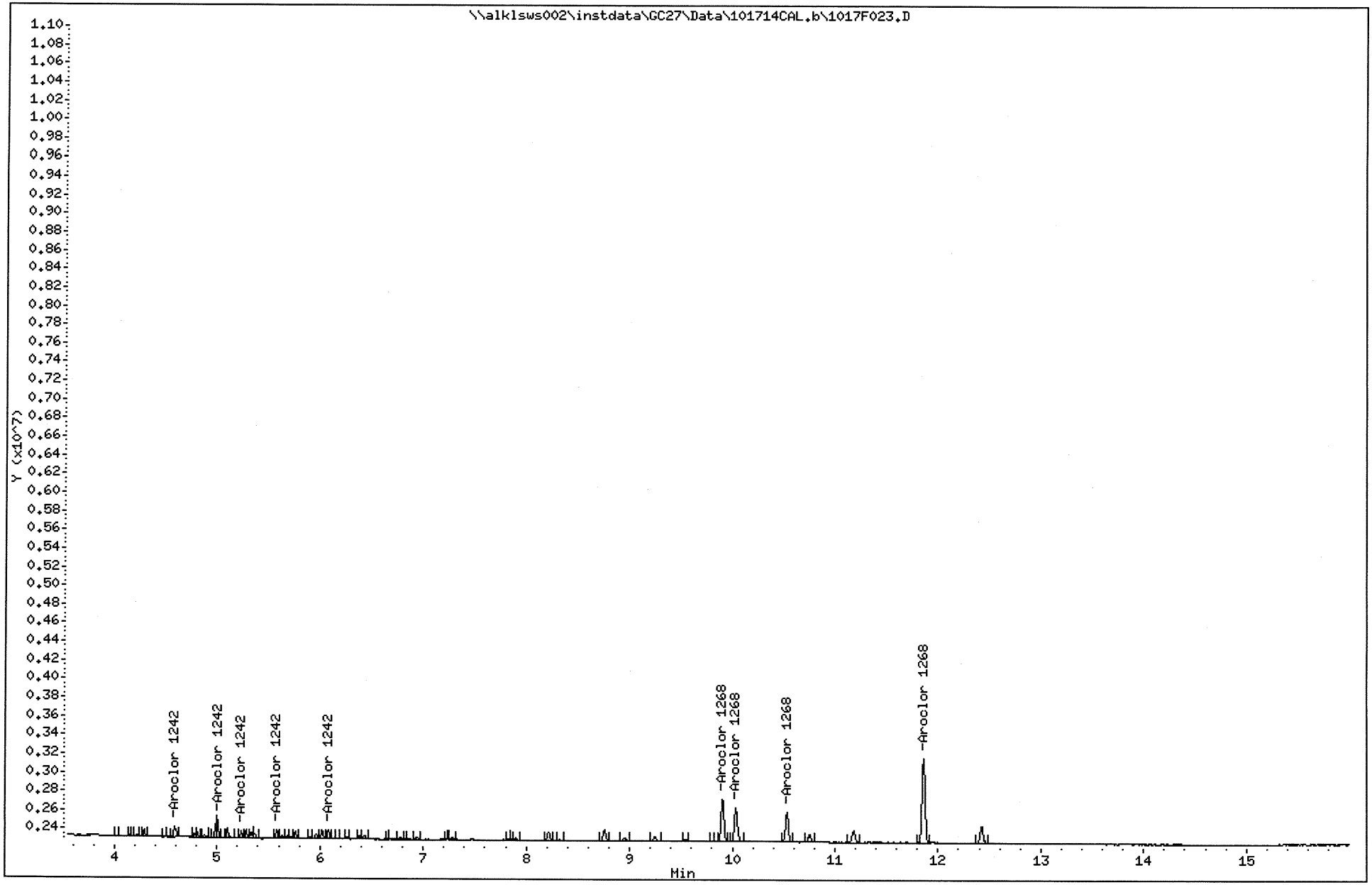
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



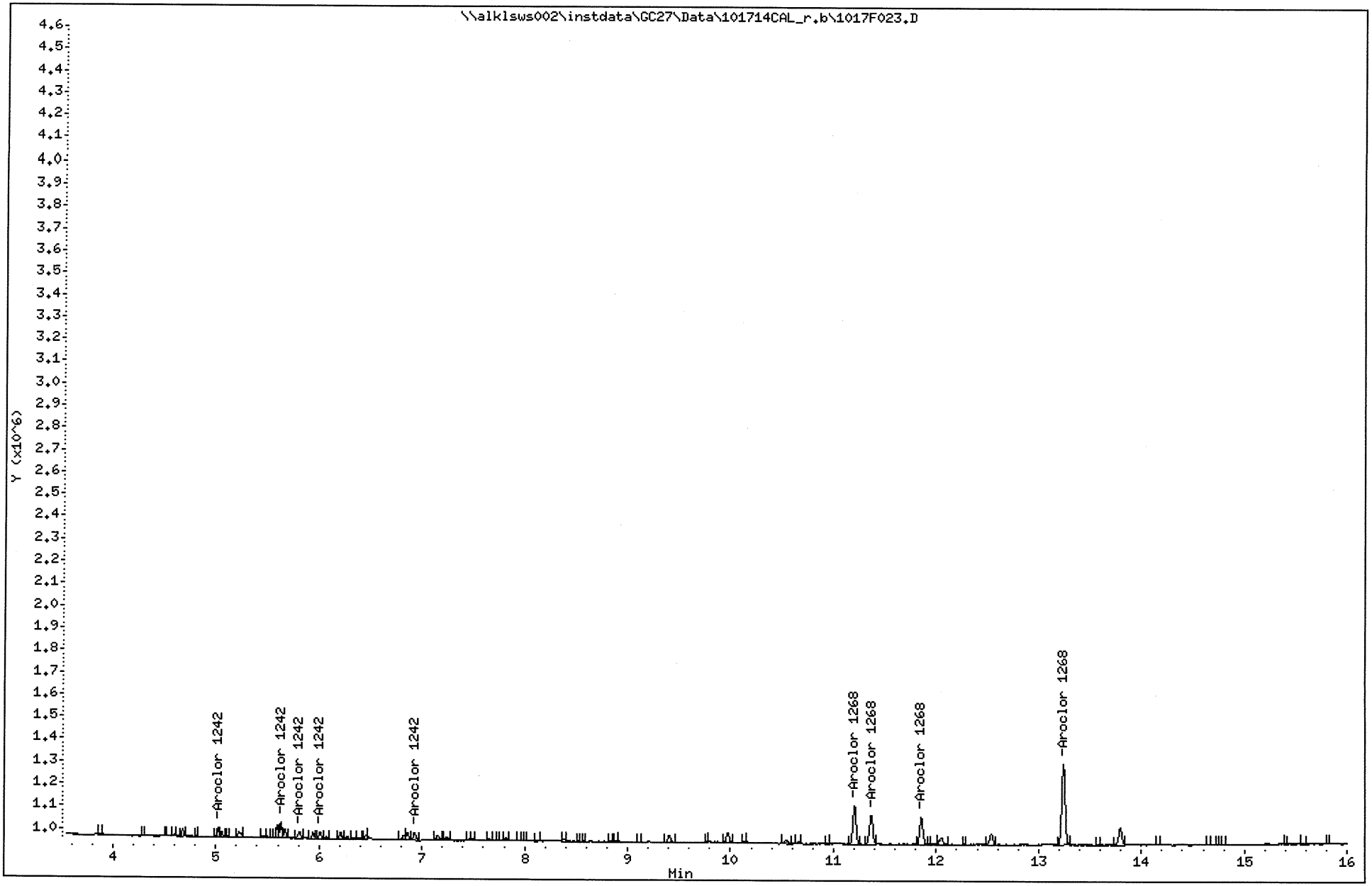
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
			Average of Peak Amounts =		56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
			Average of Peak Amounts =		59.0	52.4		

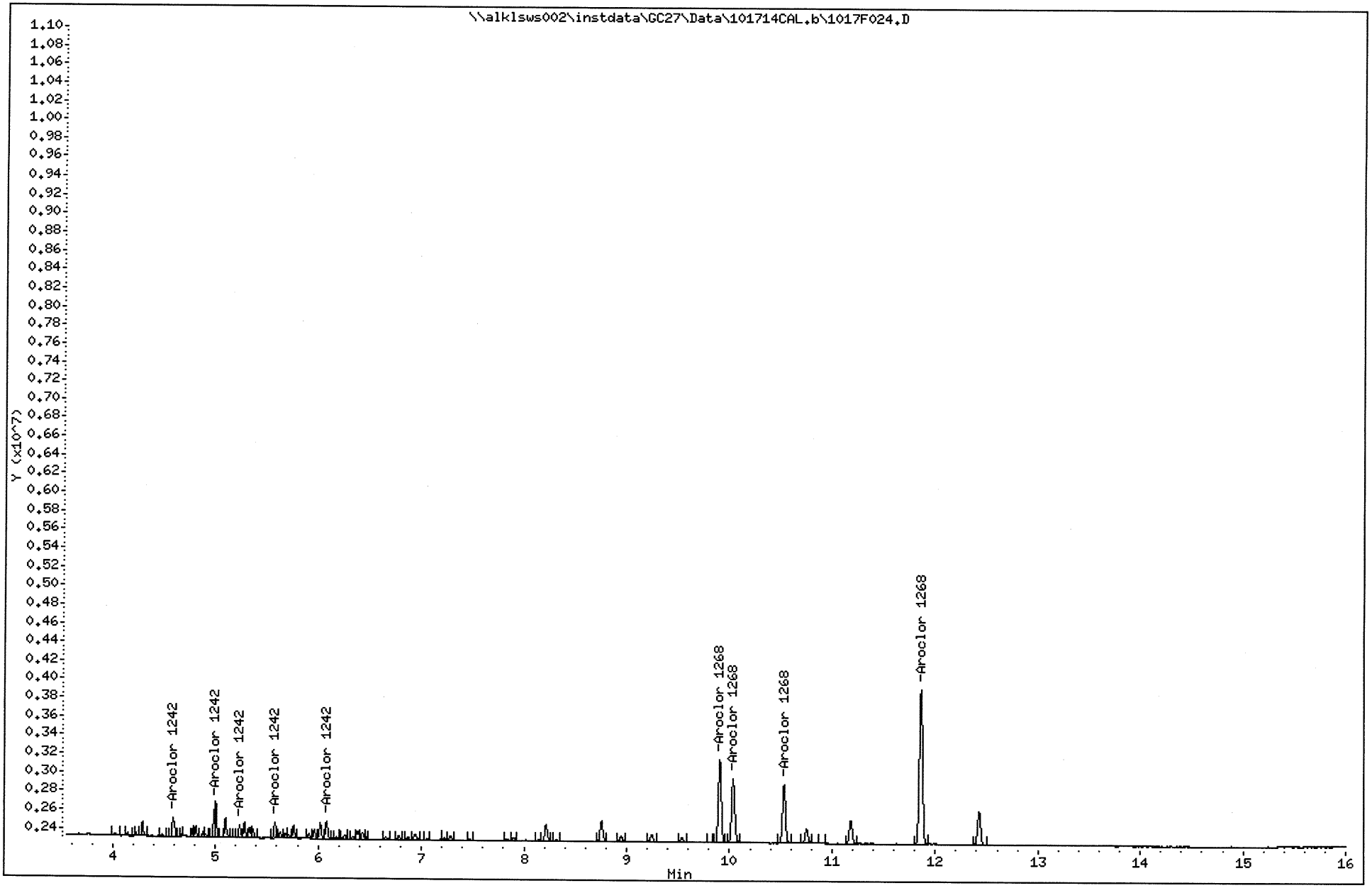
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



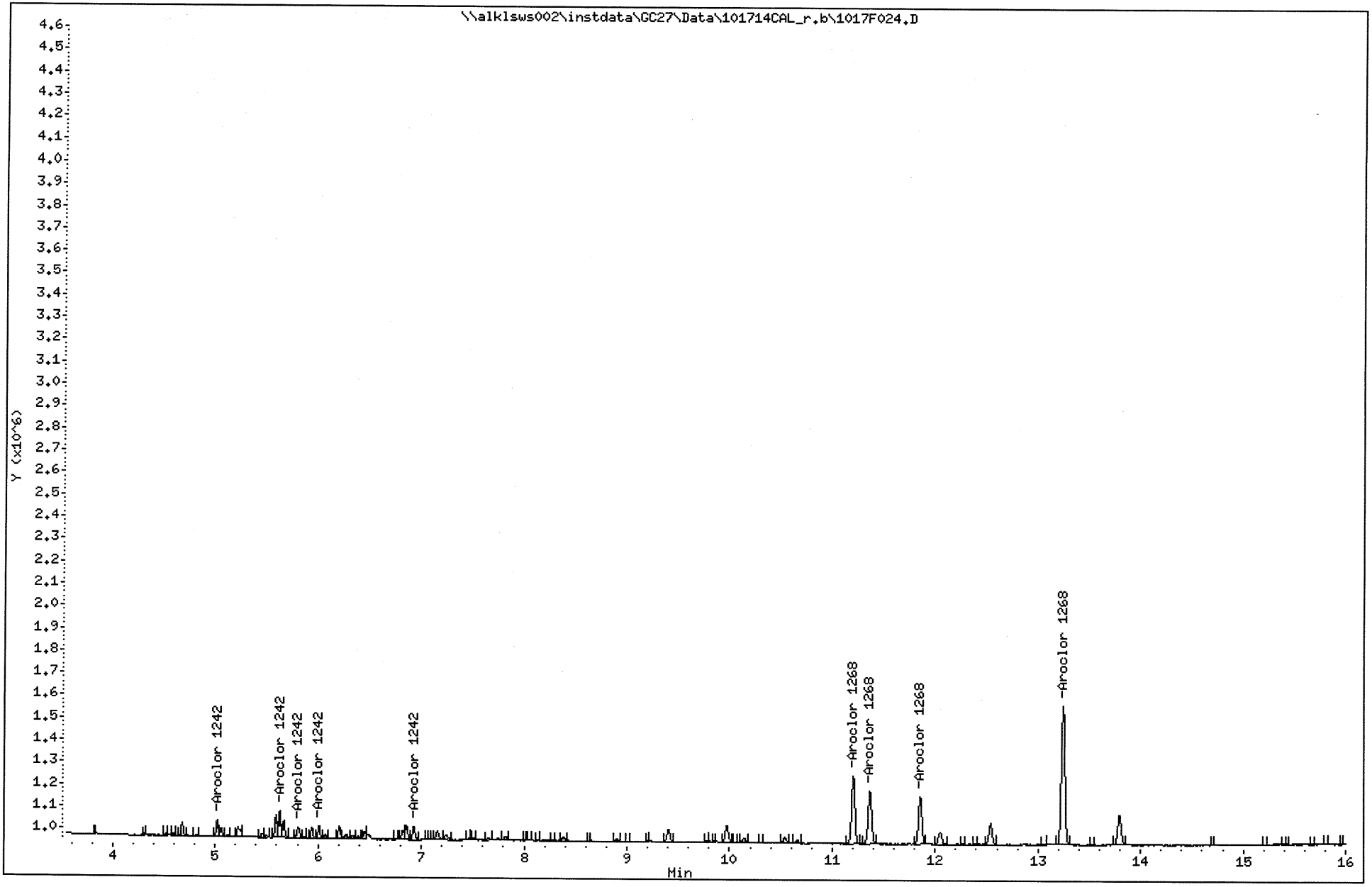
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

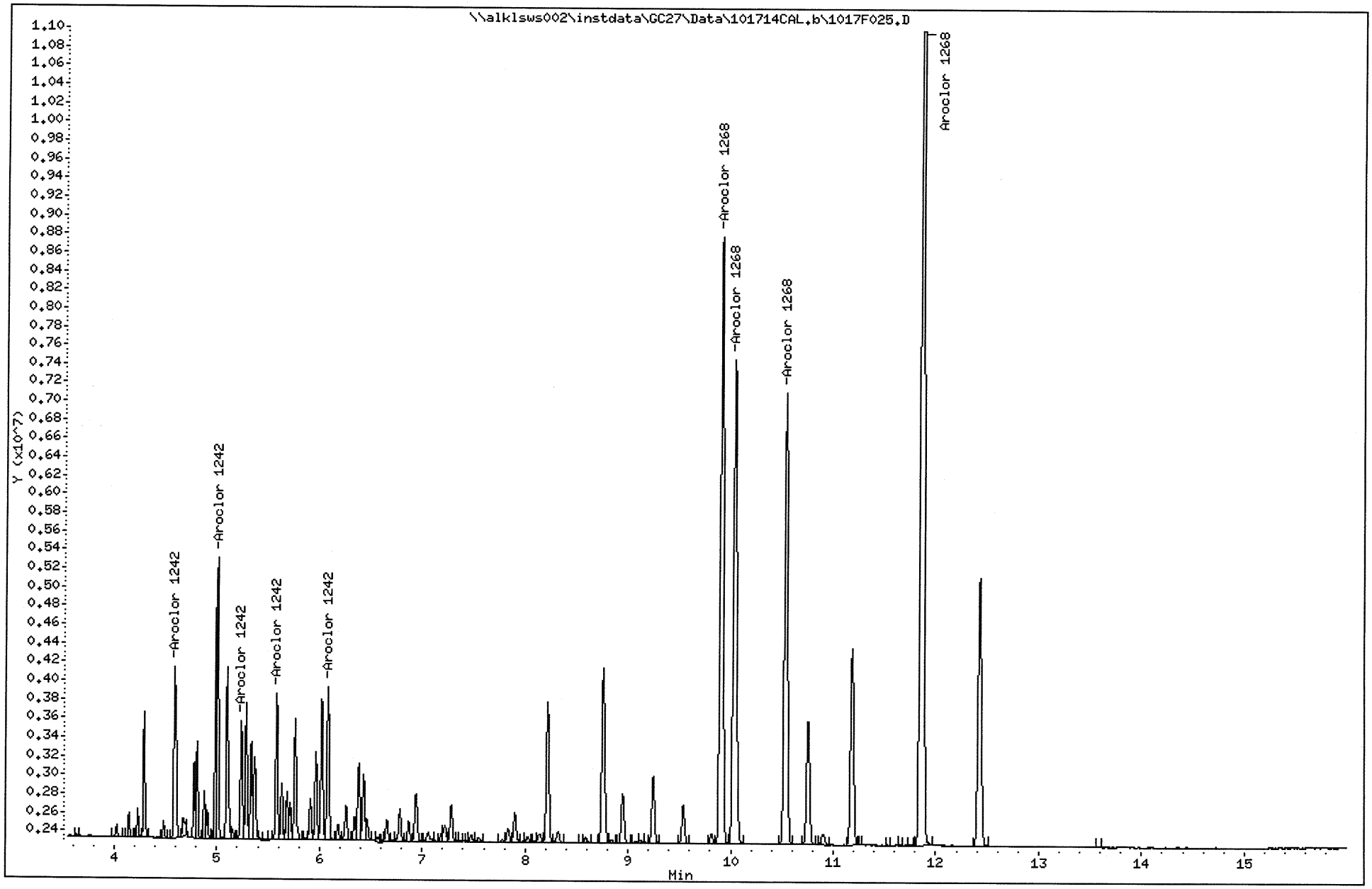
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

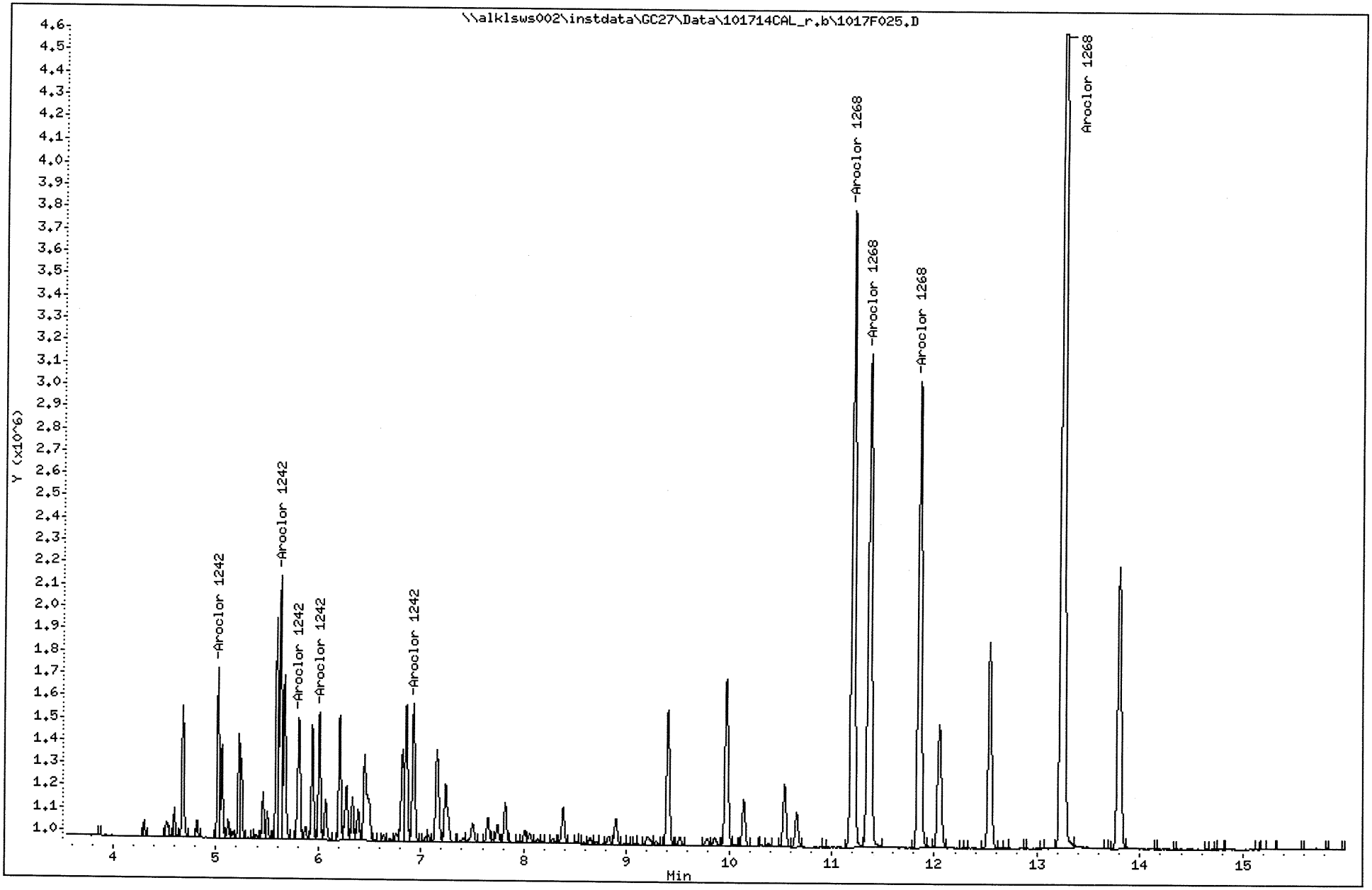


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

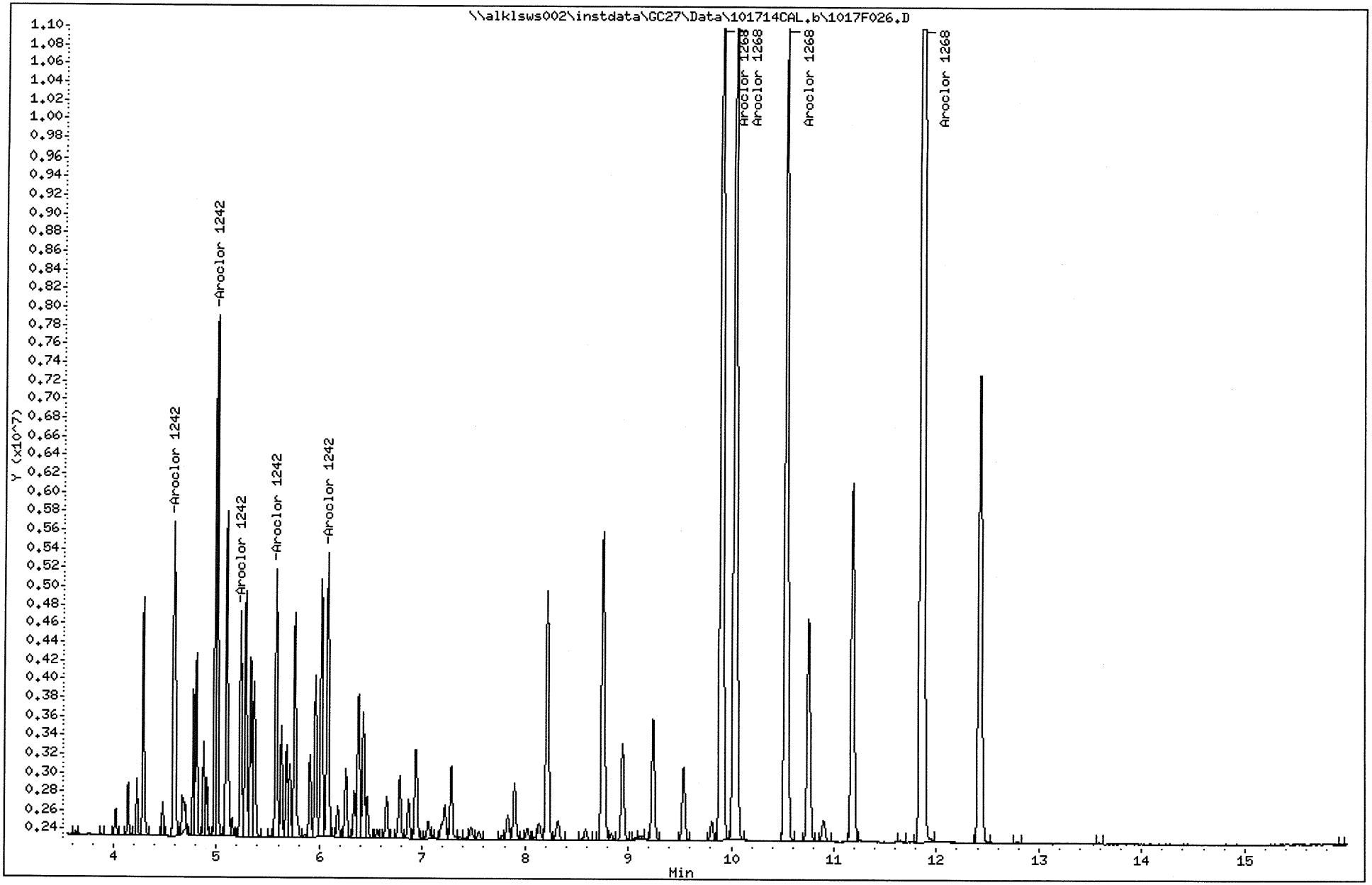
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



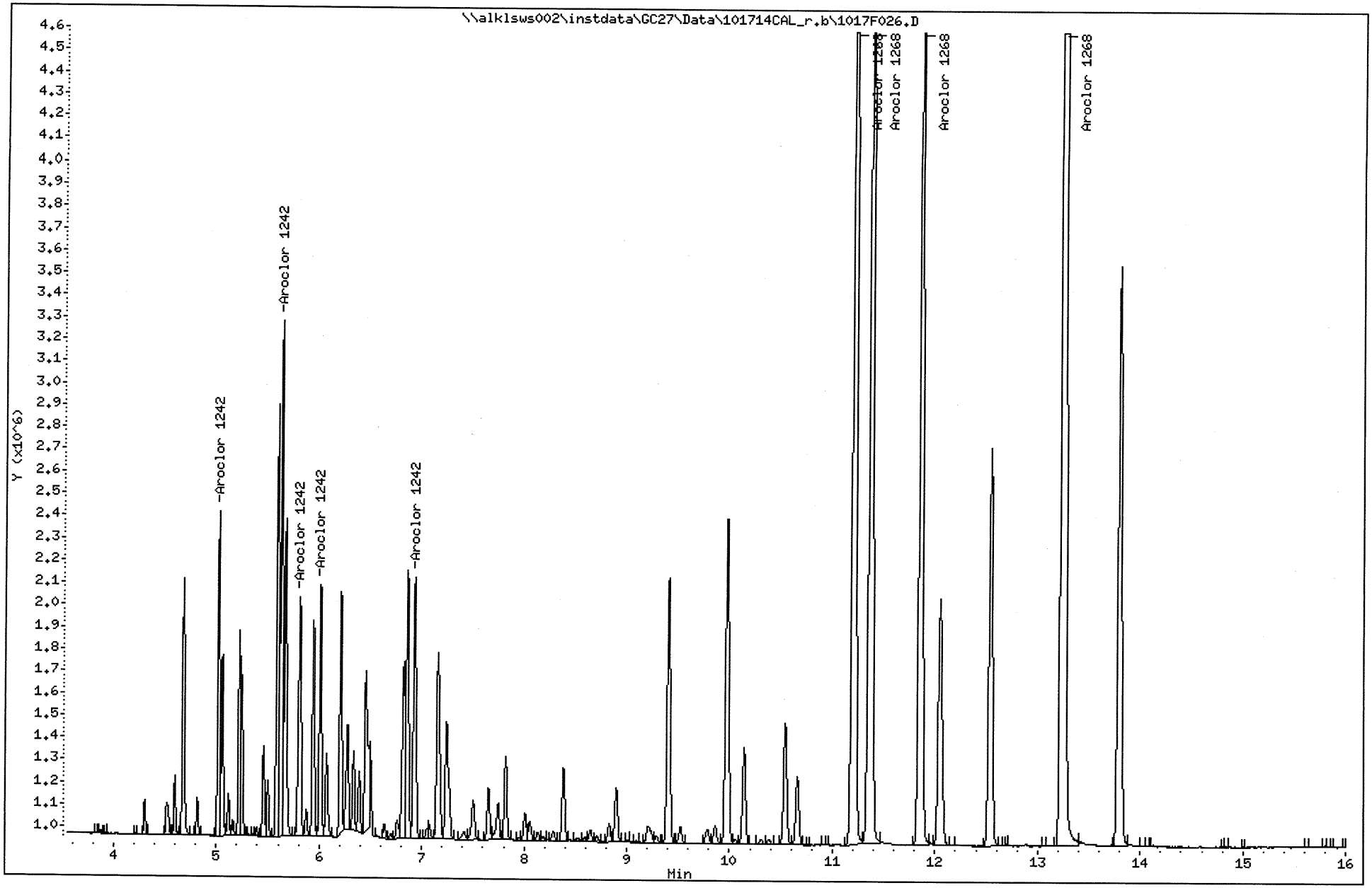
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

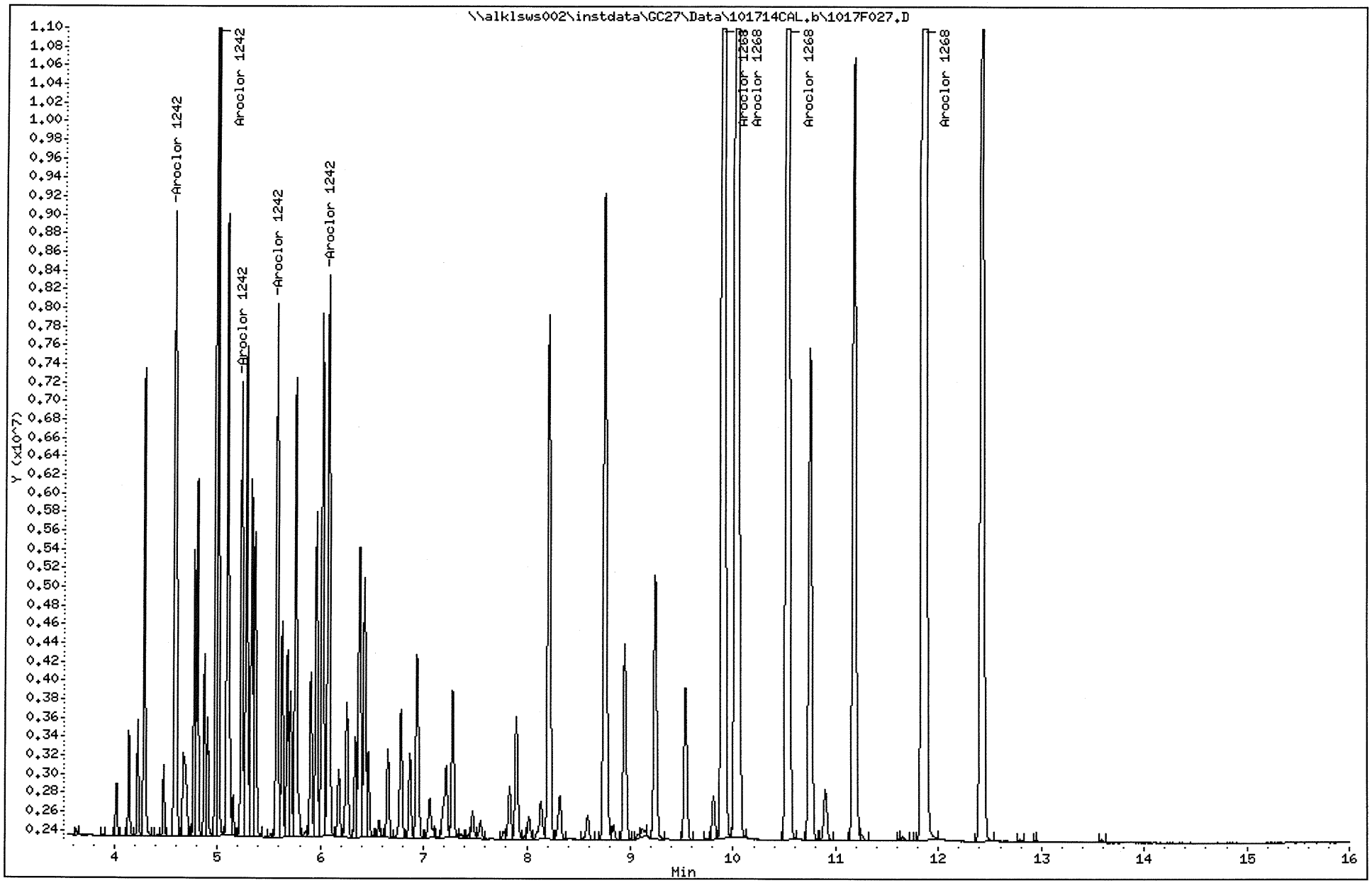
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



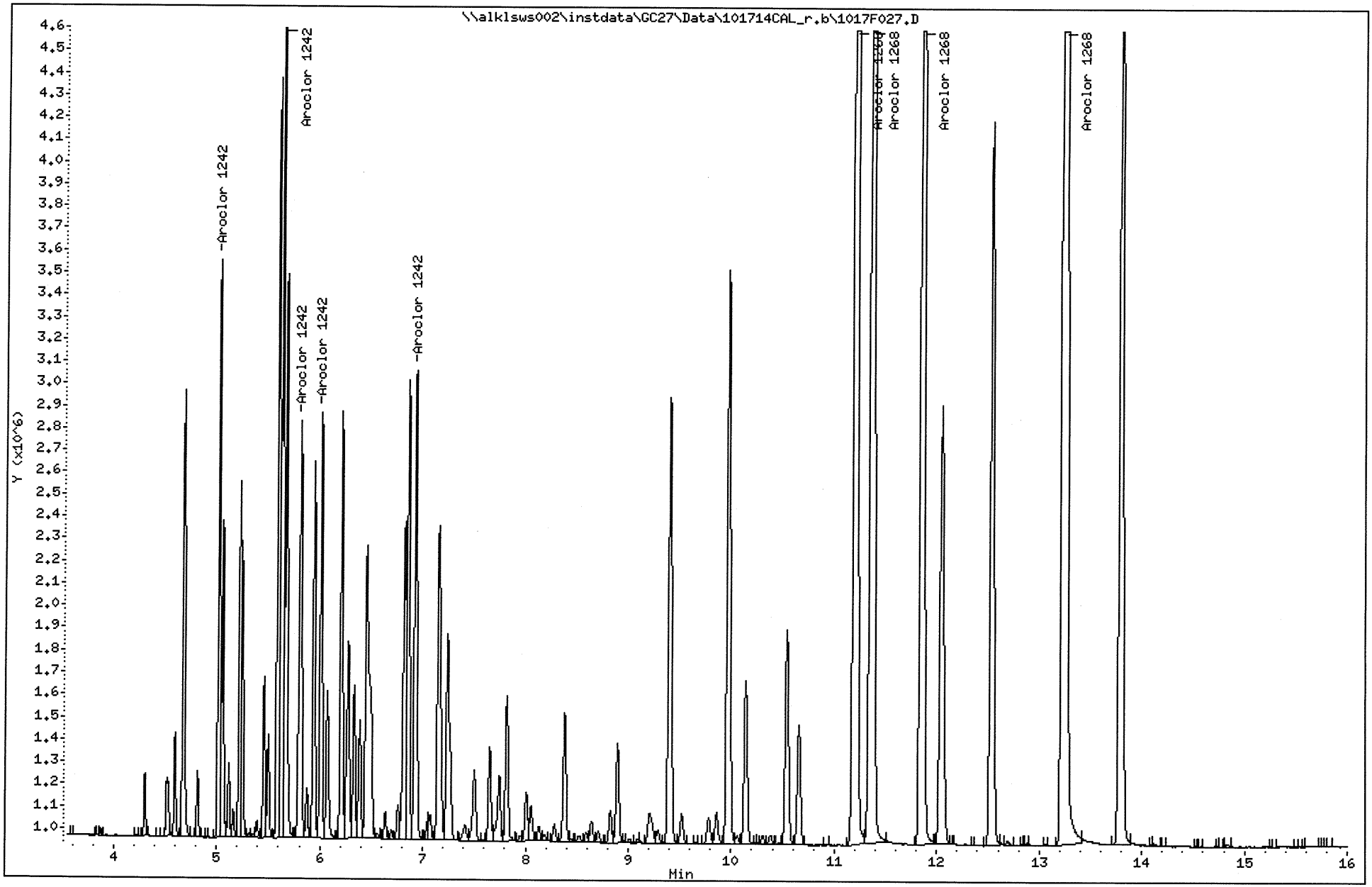
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

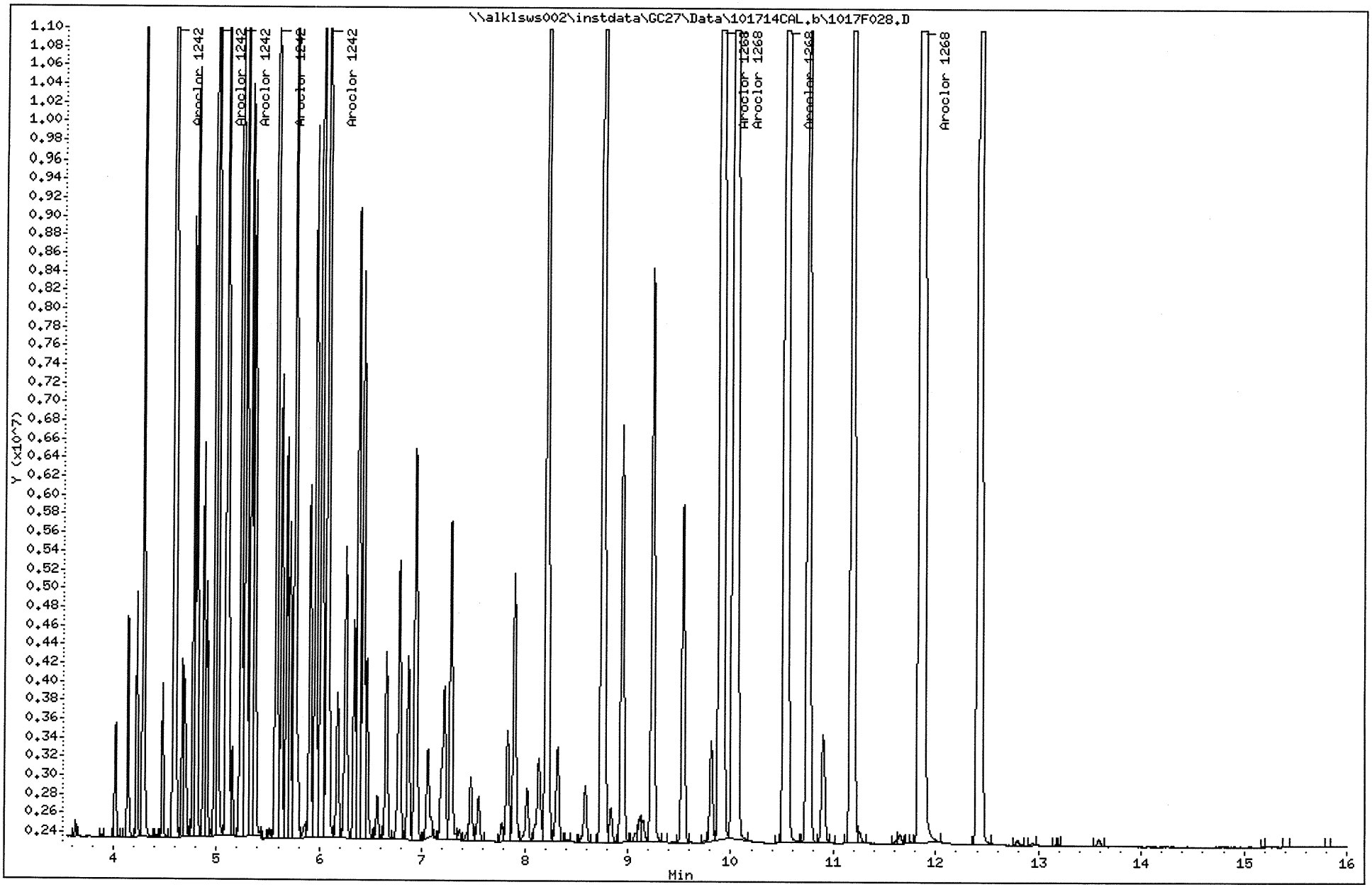
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



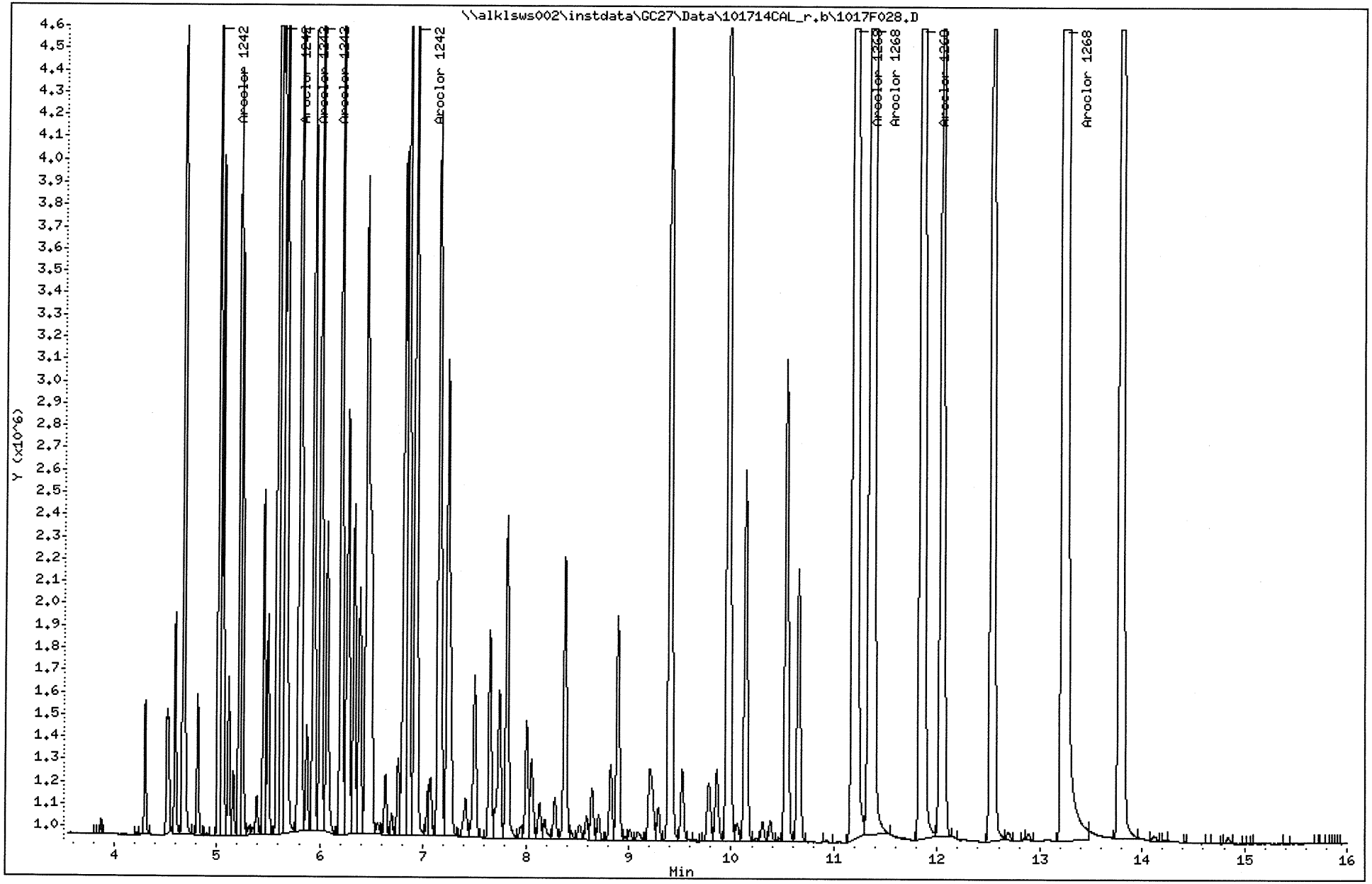
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

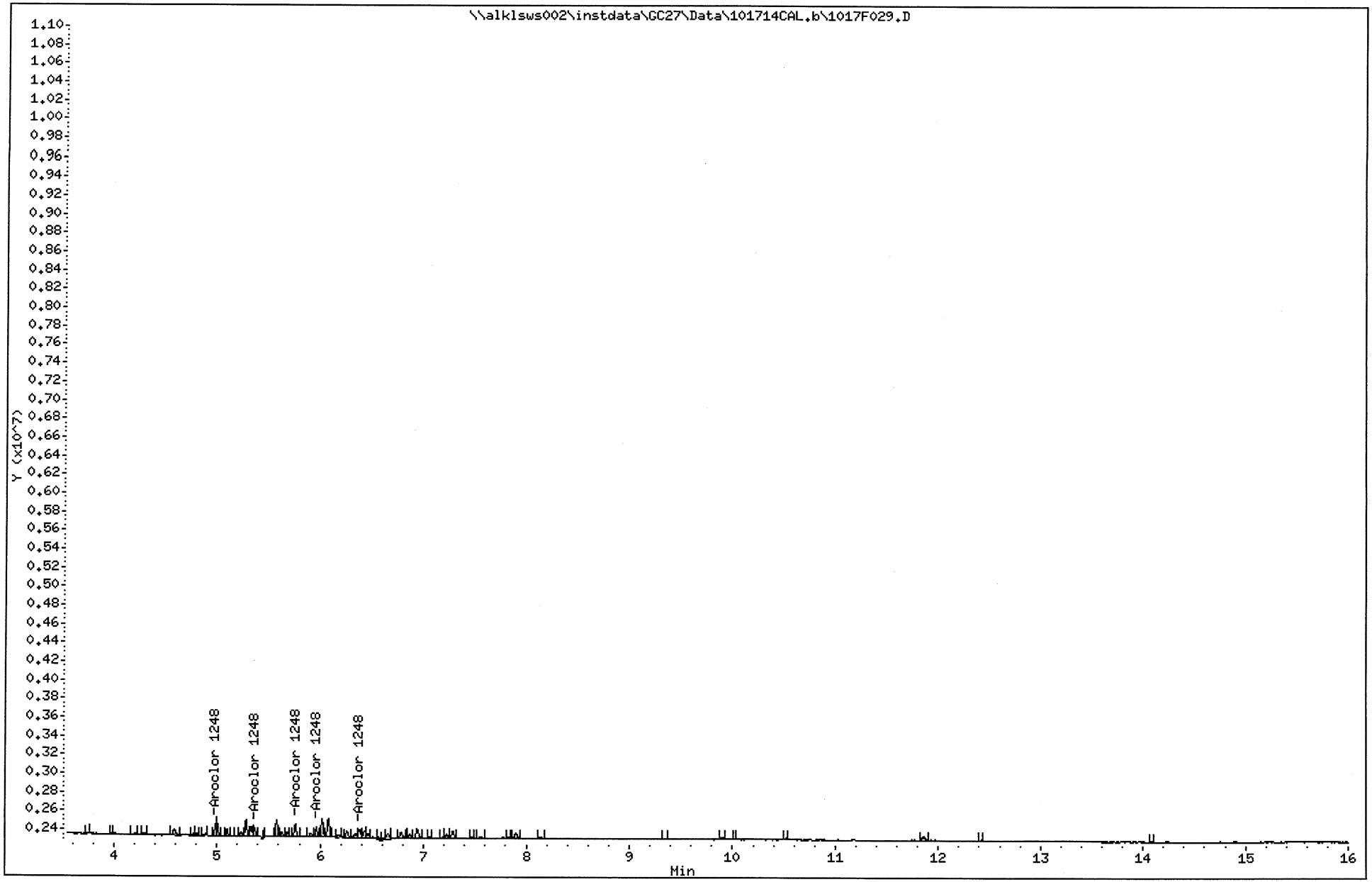
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

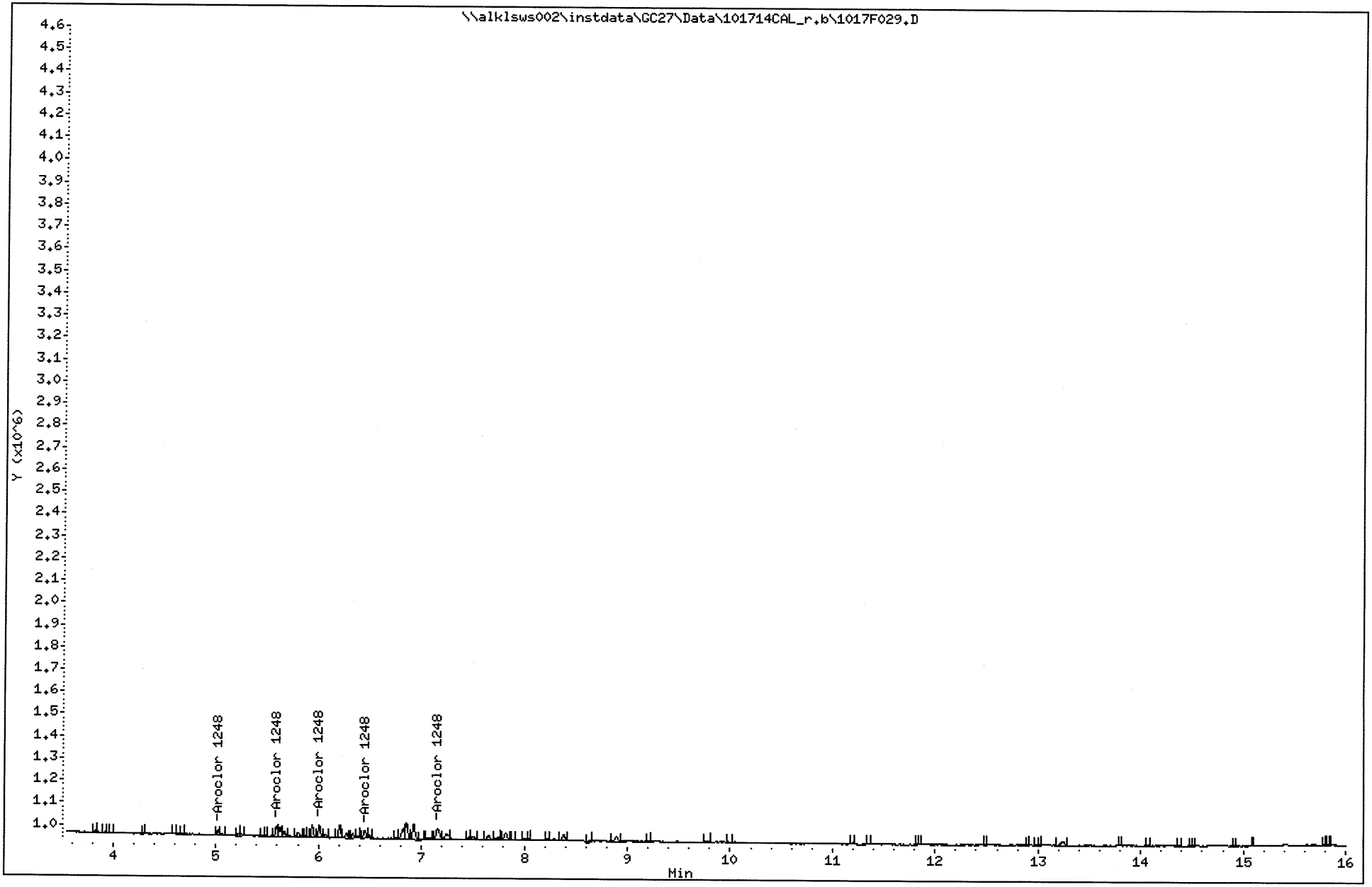


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

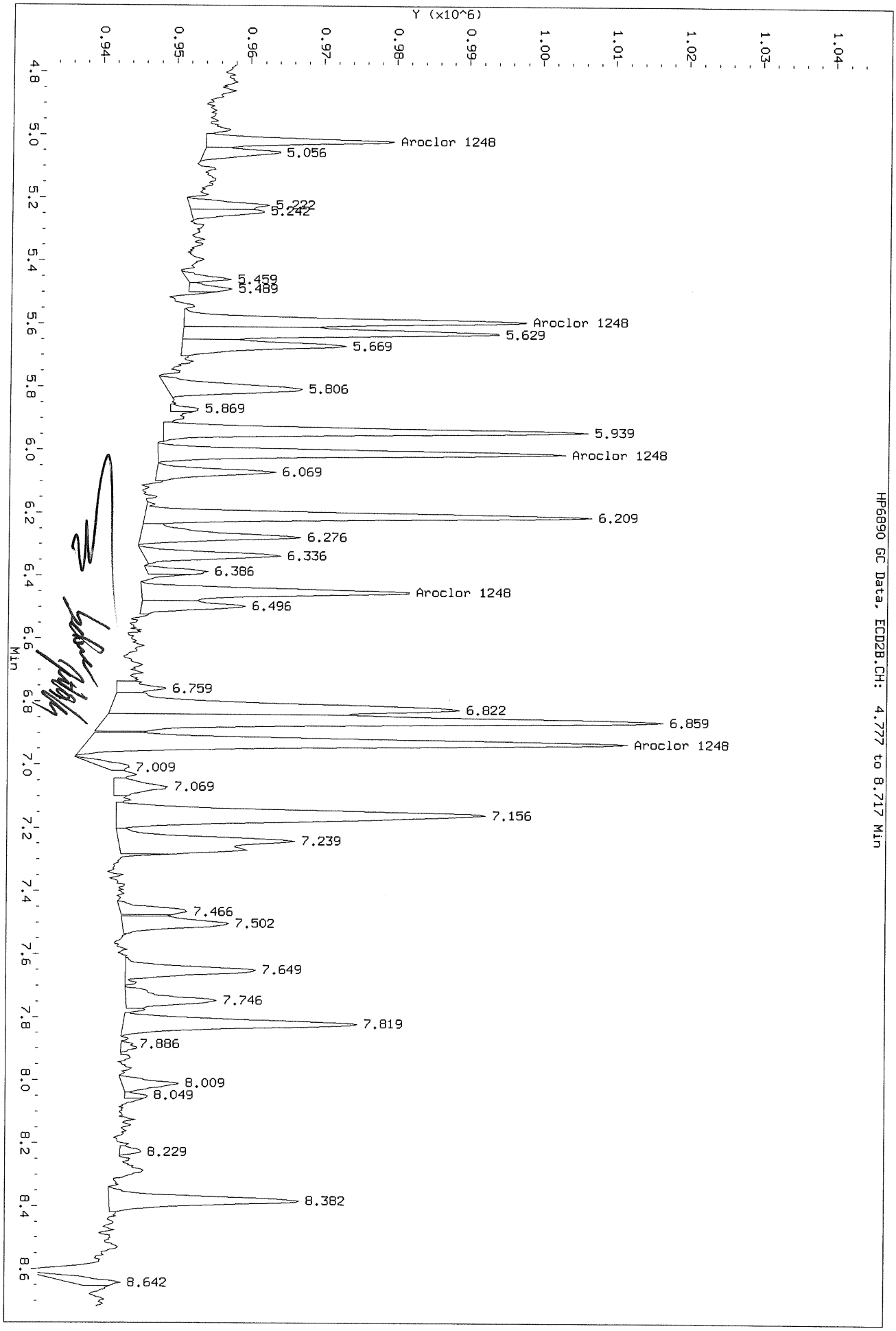
Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

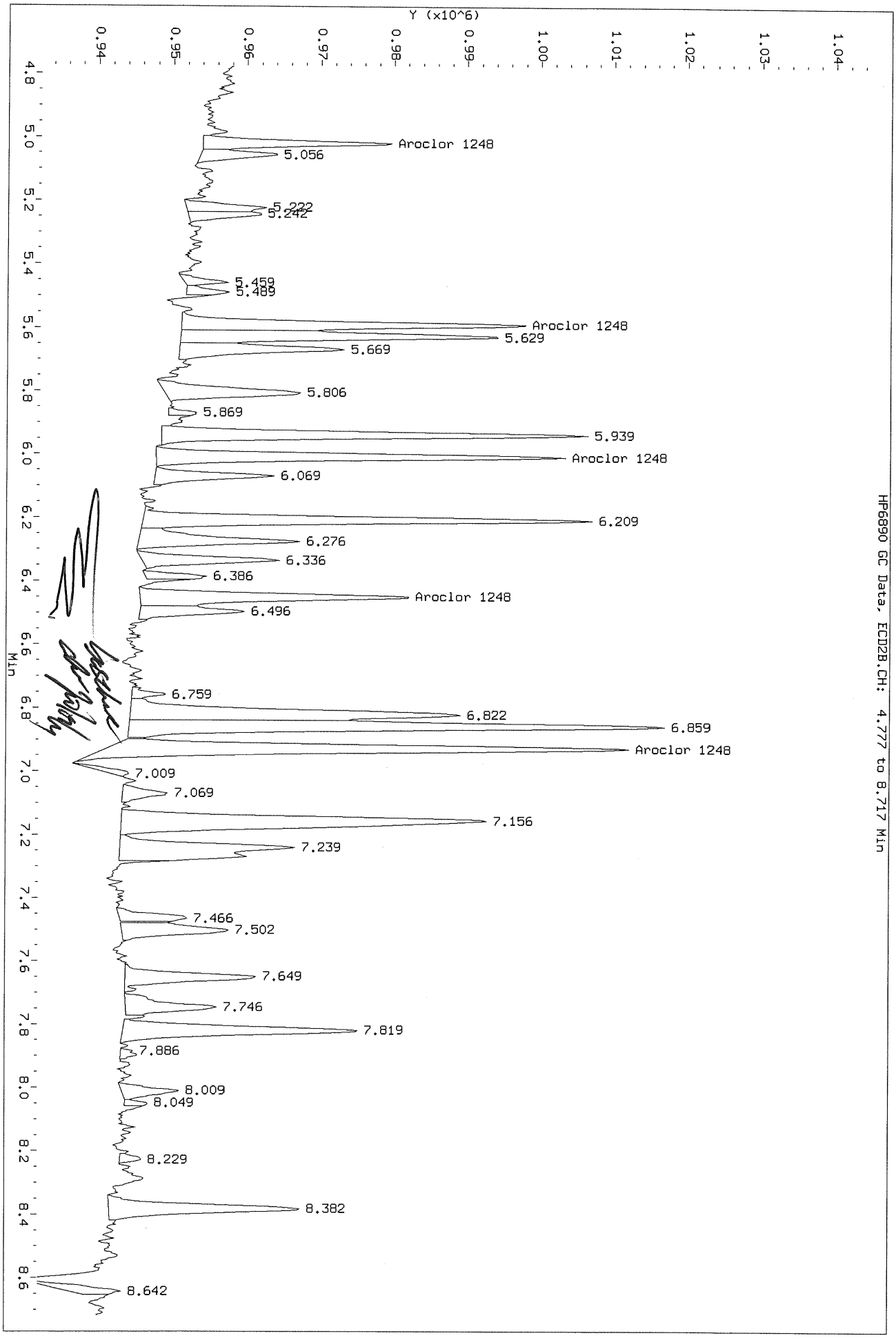


Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

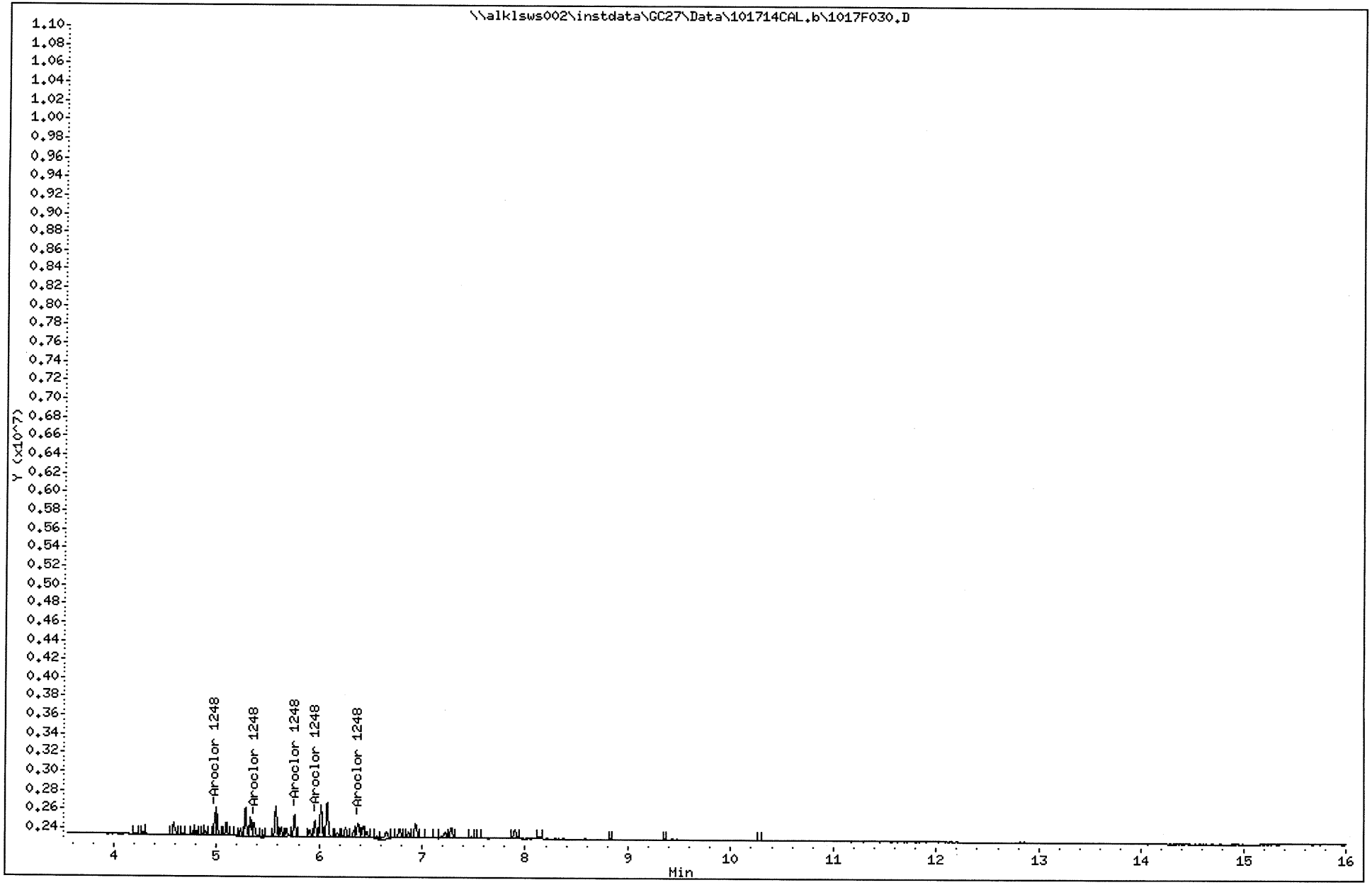
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



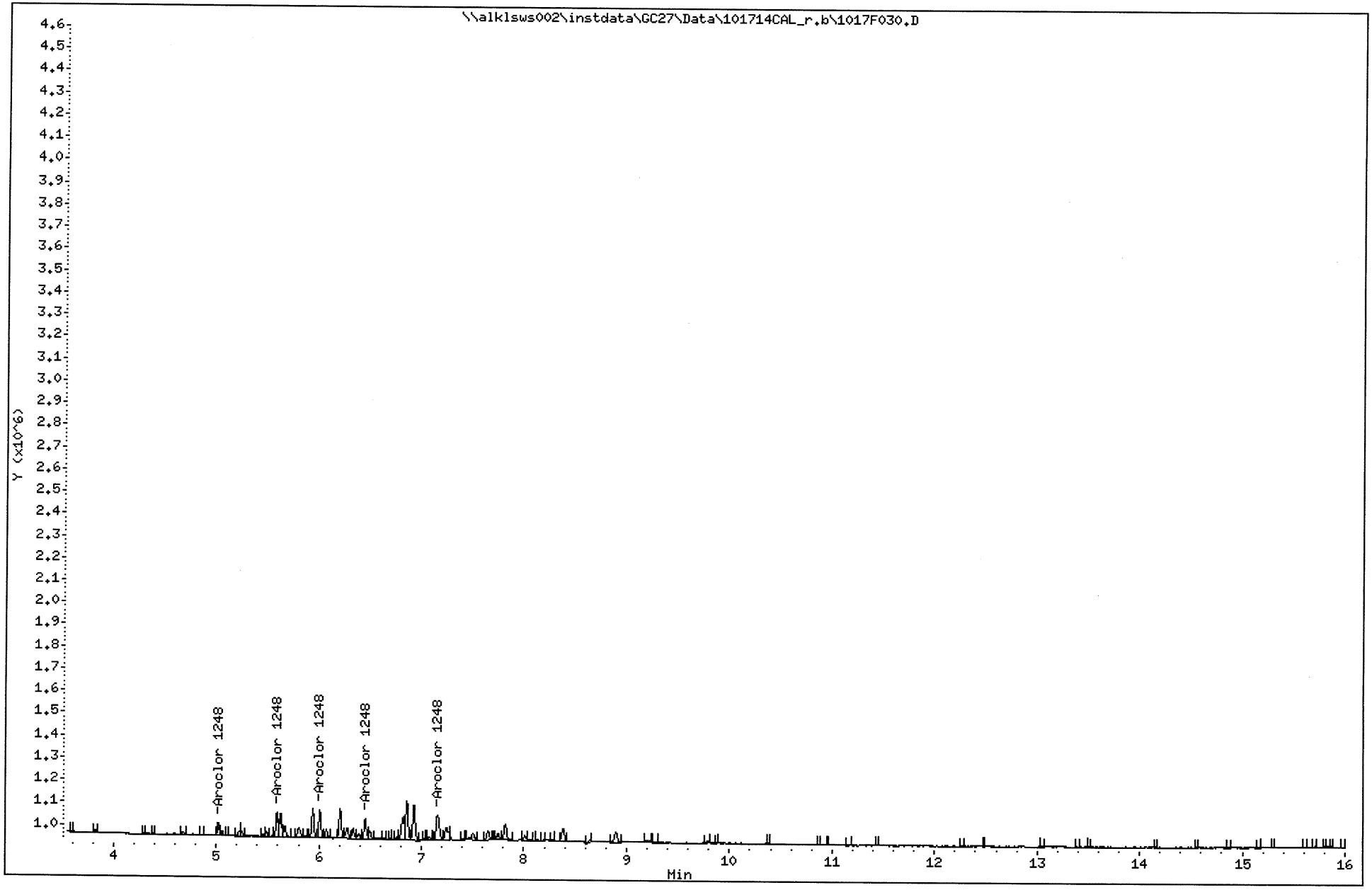
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

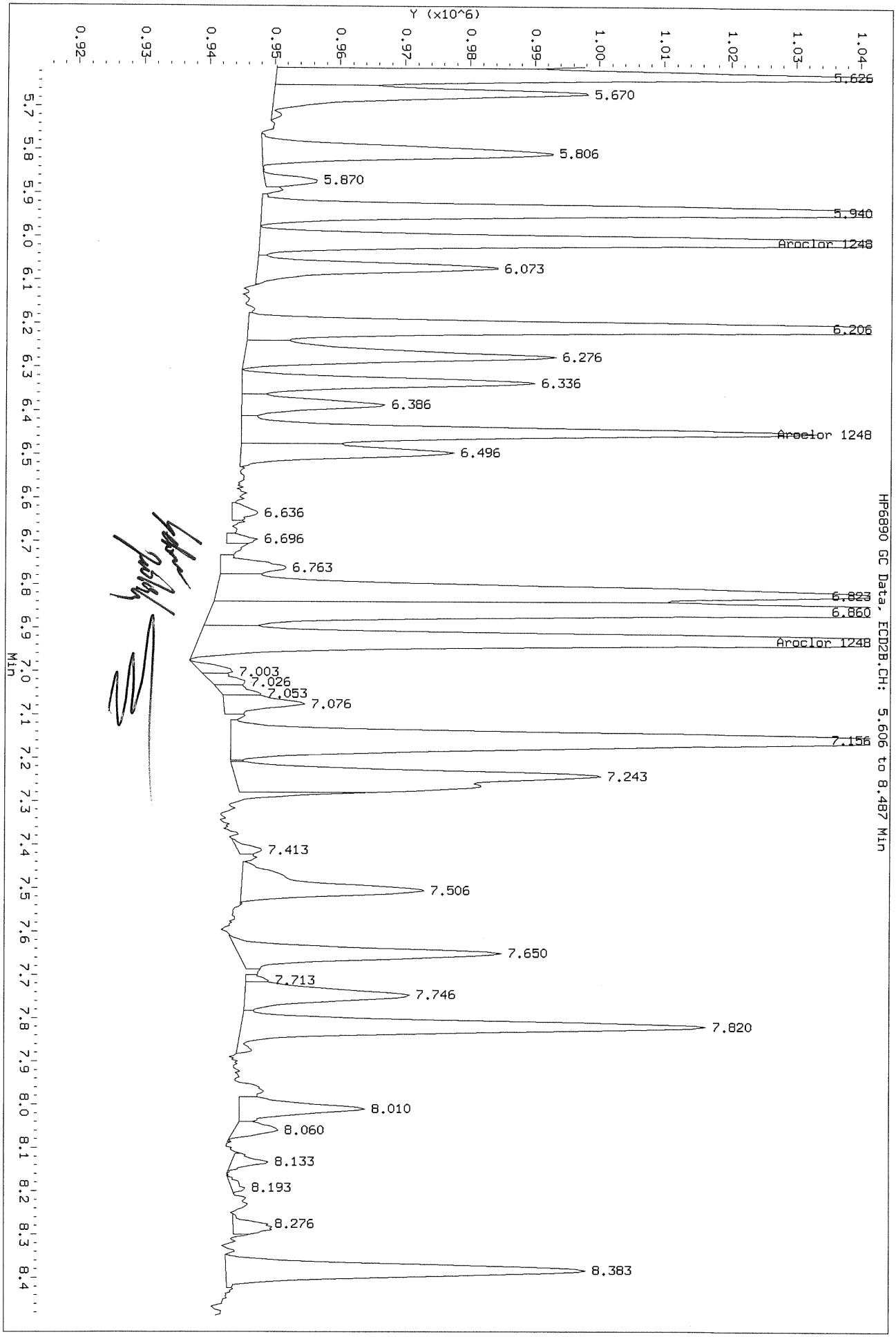
Instrument: GC27.i

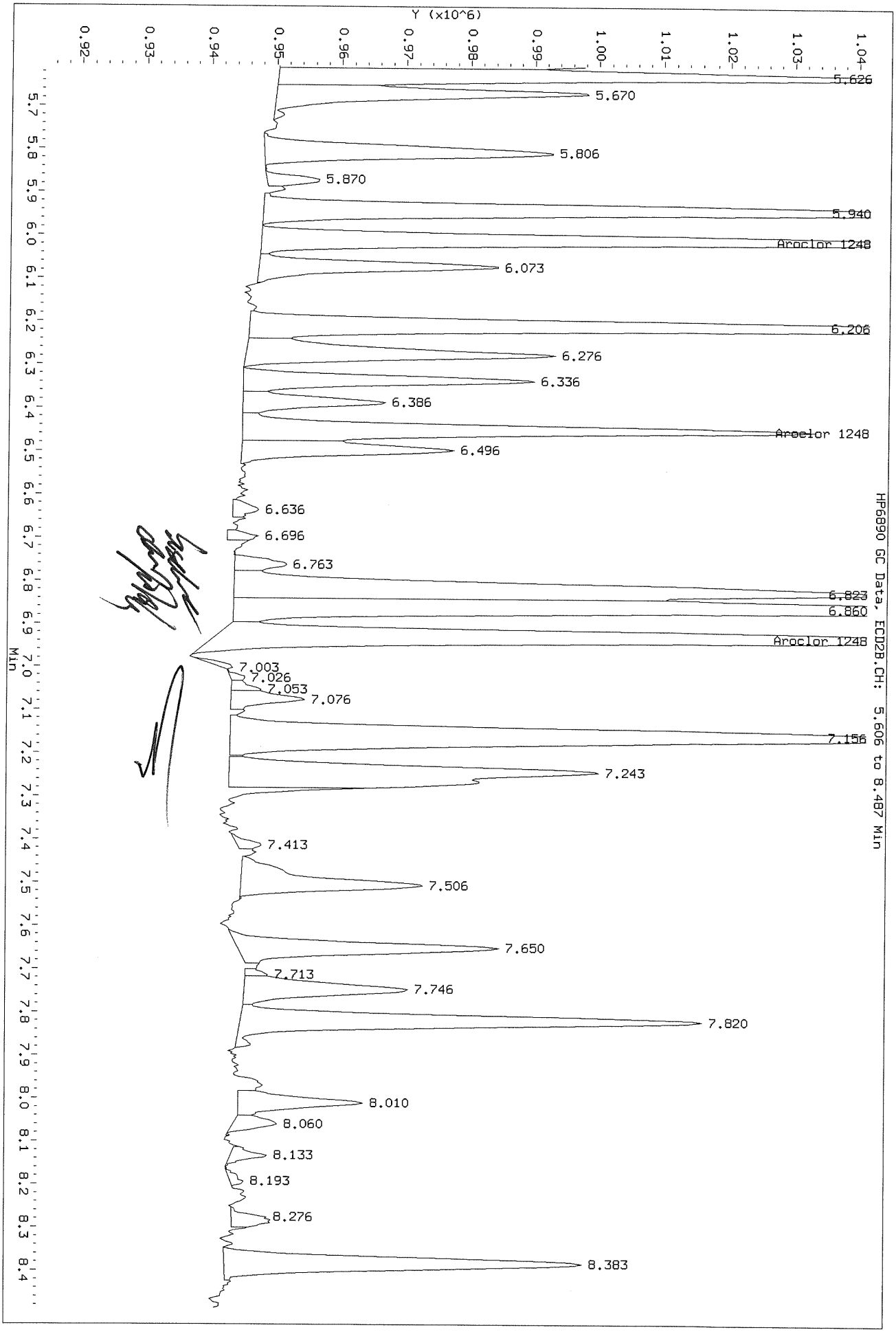
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

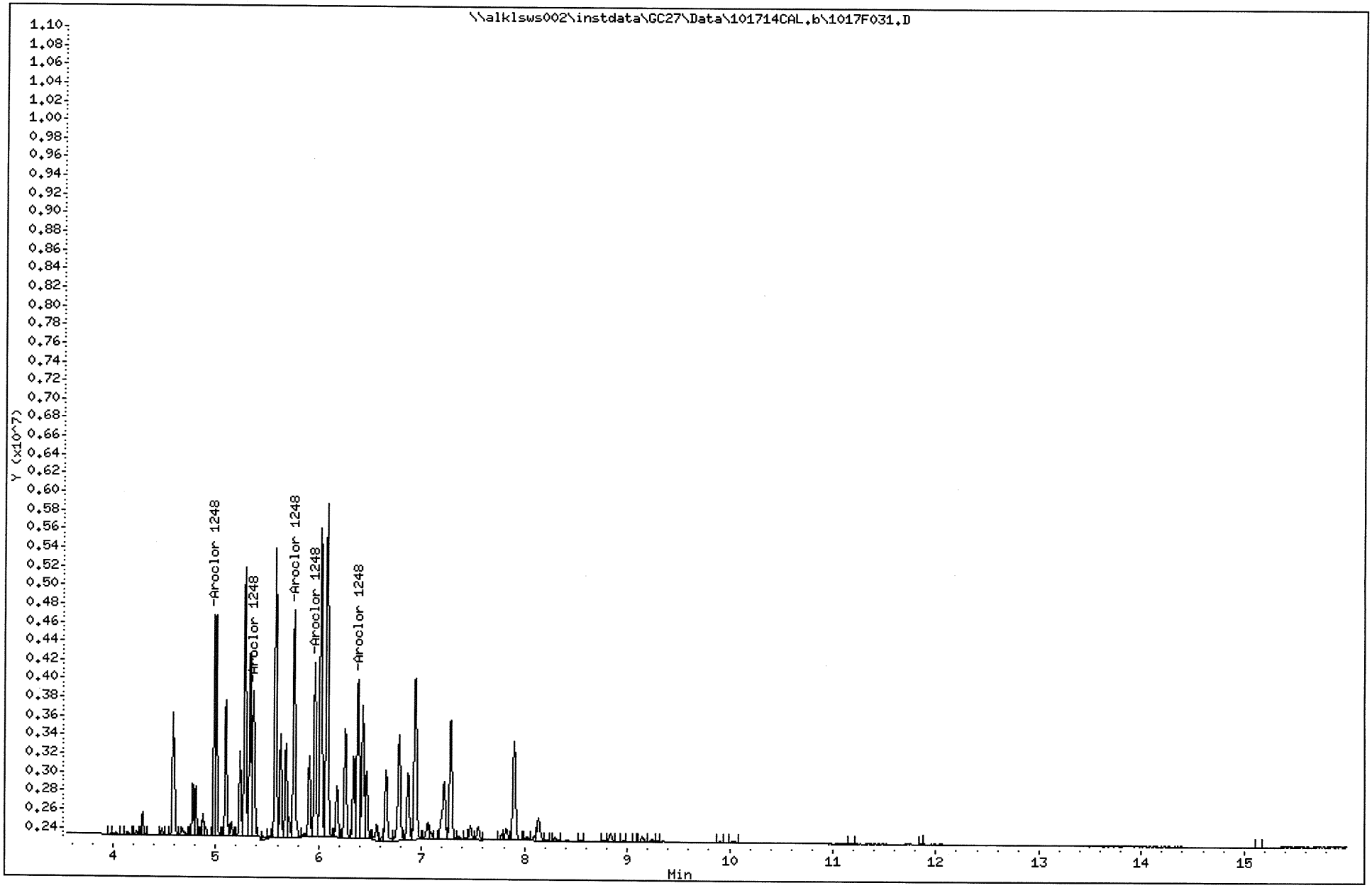
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



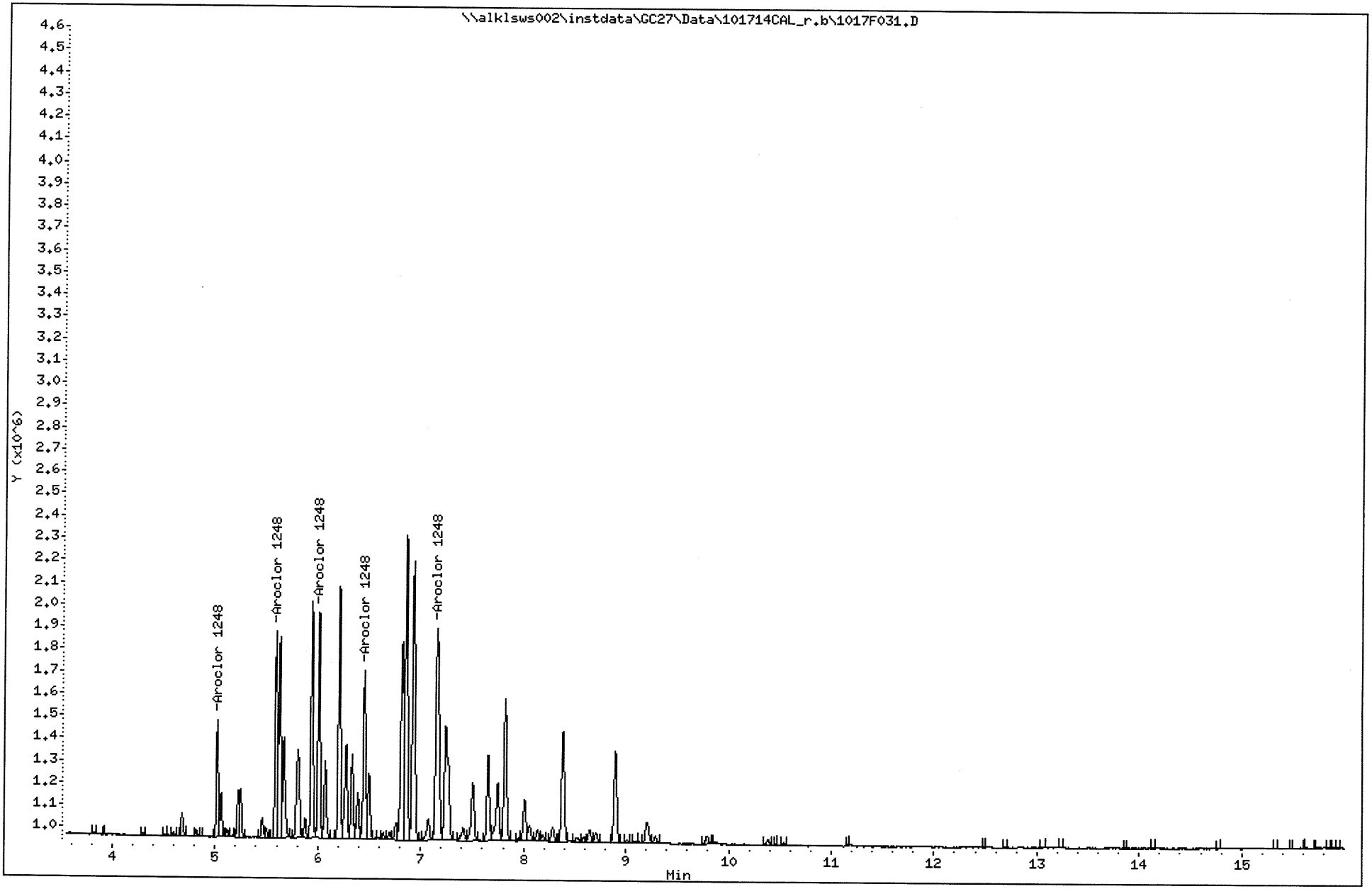
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

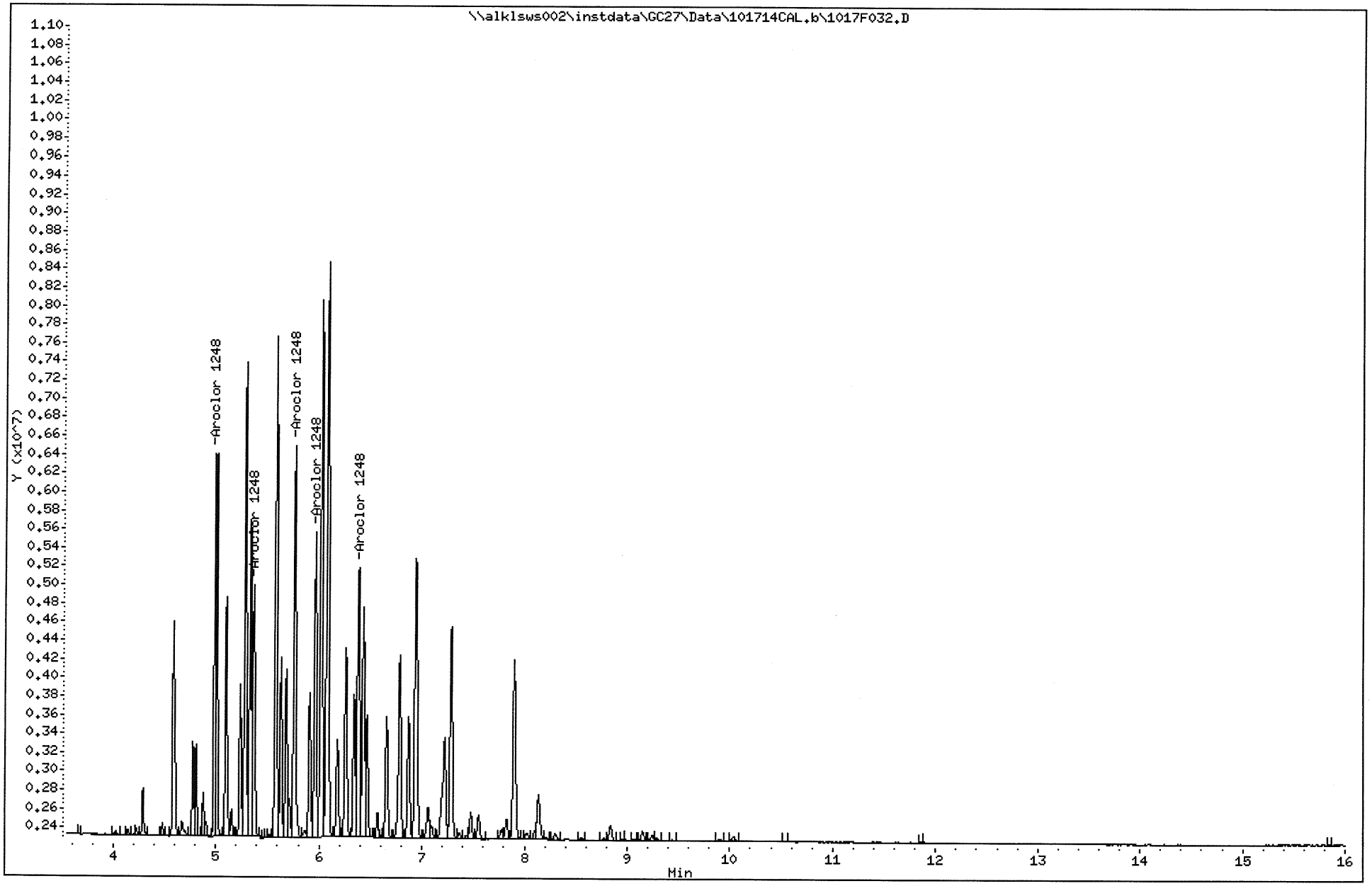
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



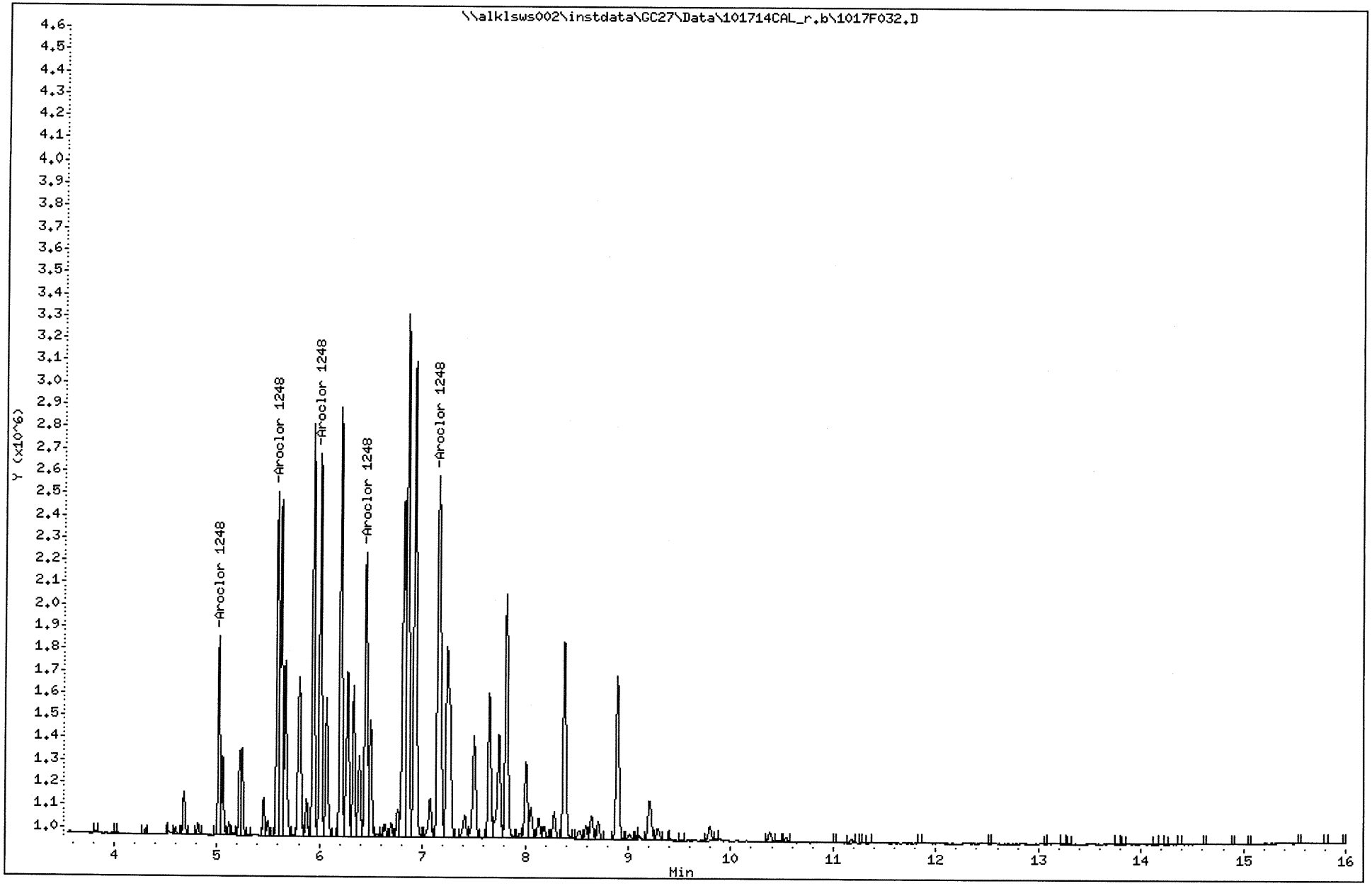
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

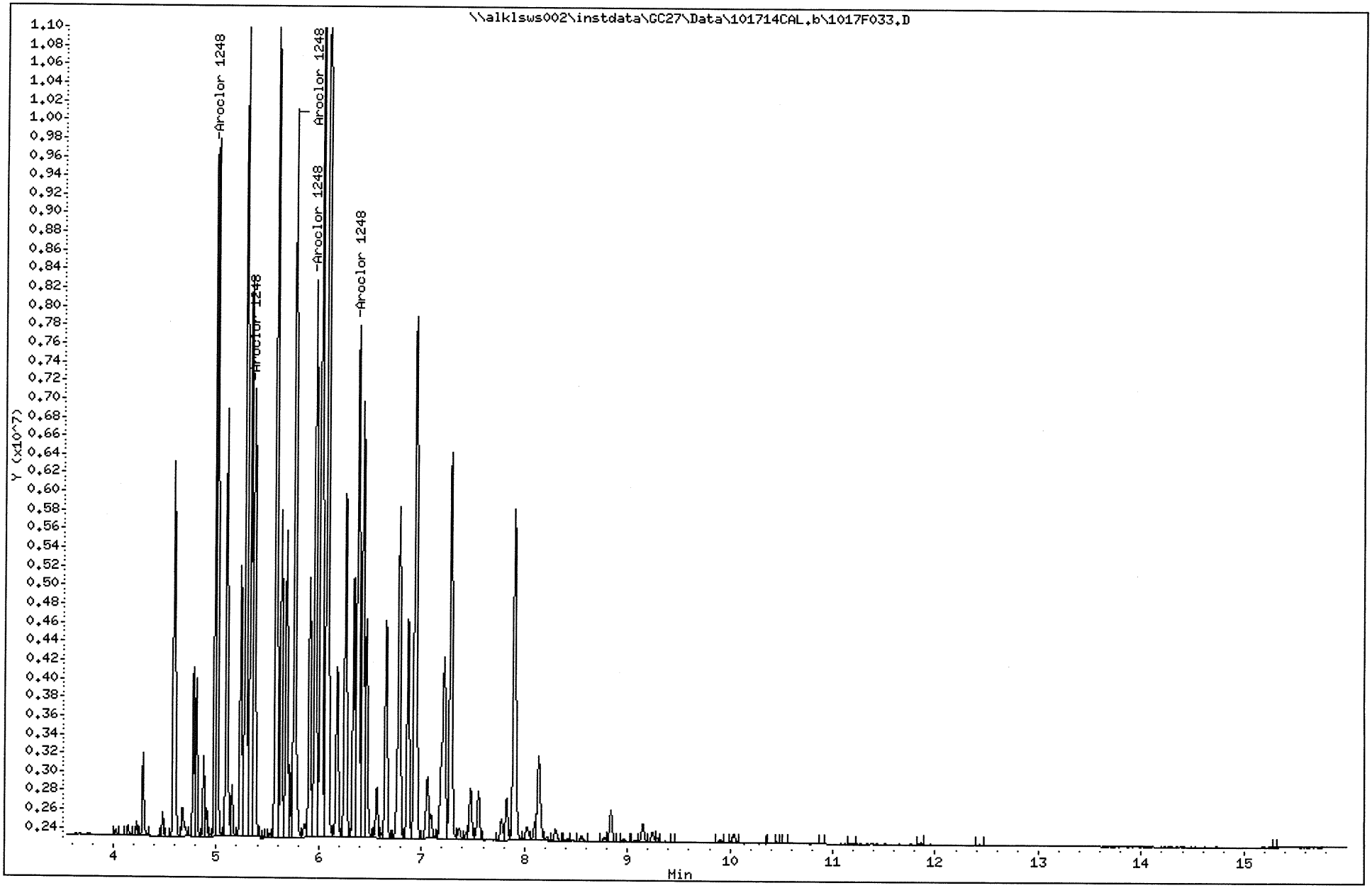
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

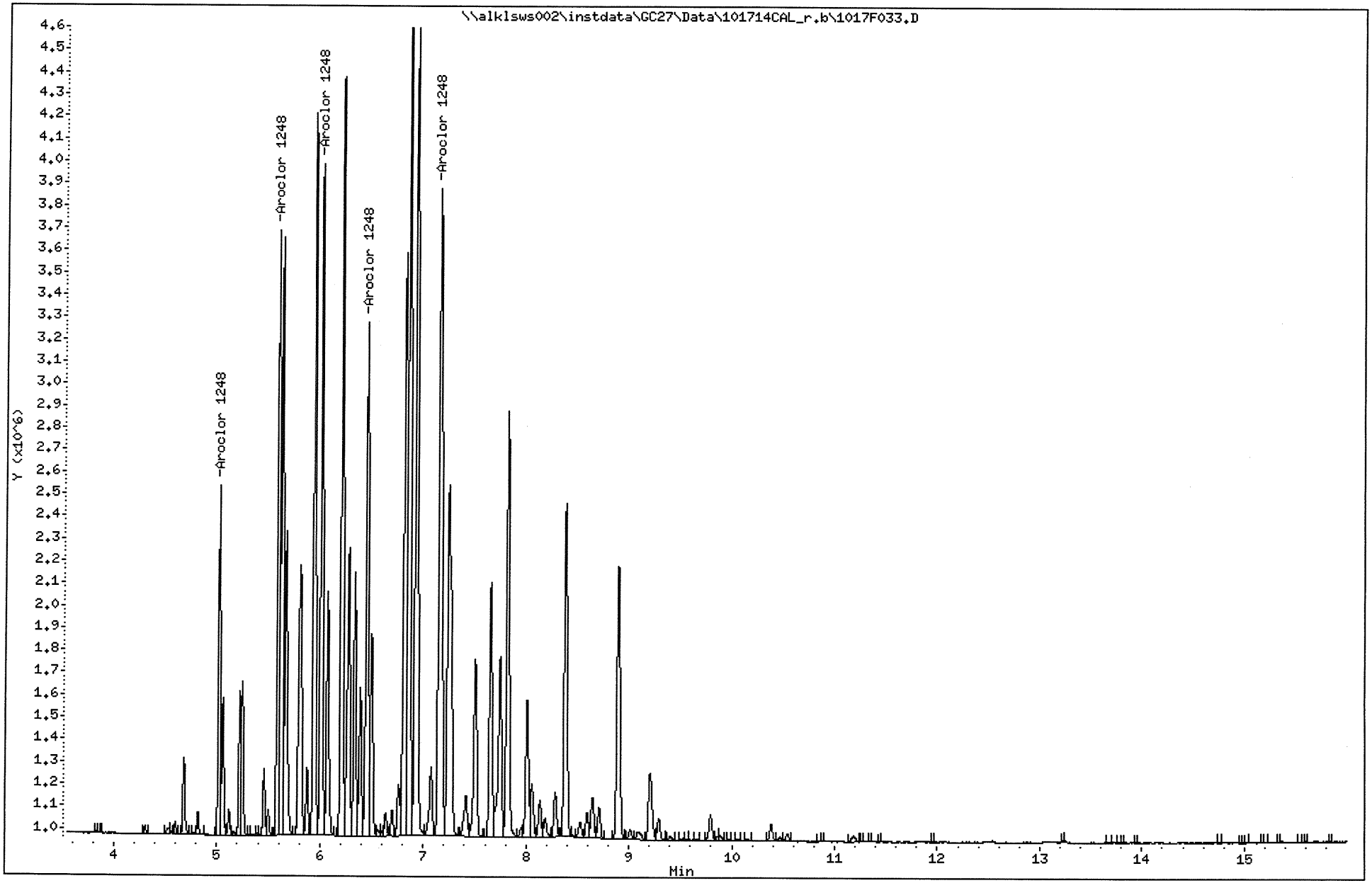


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

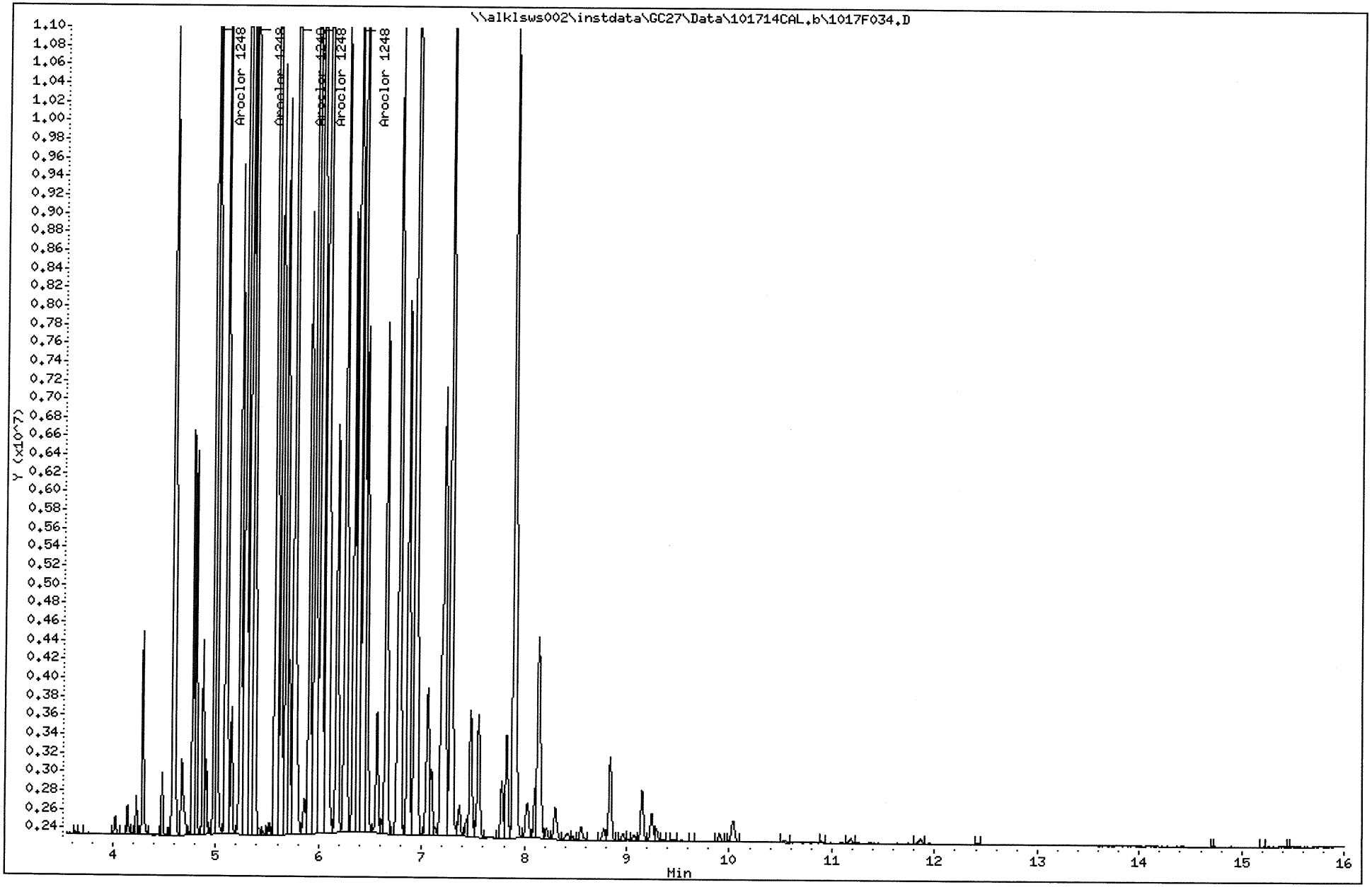
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

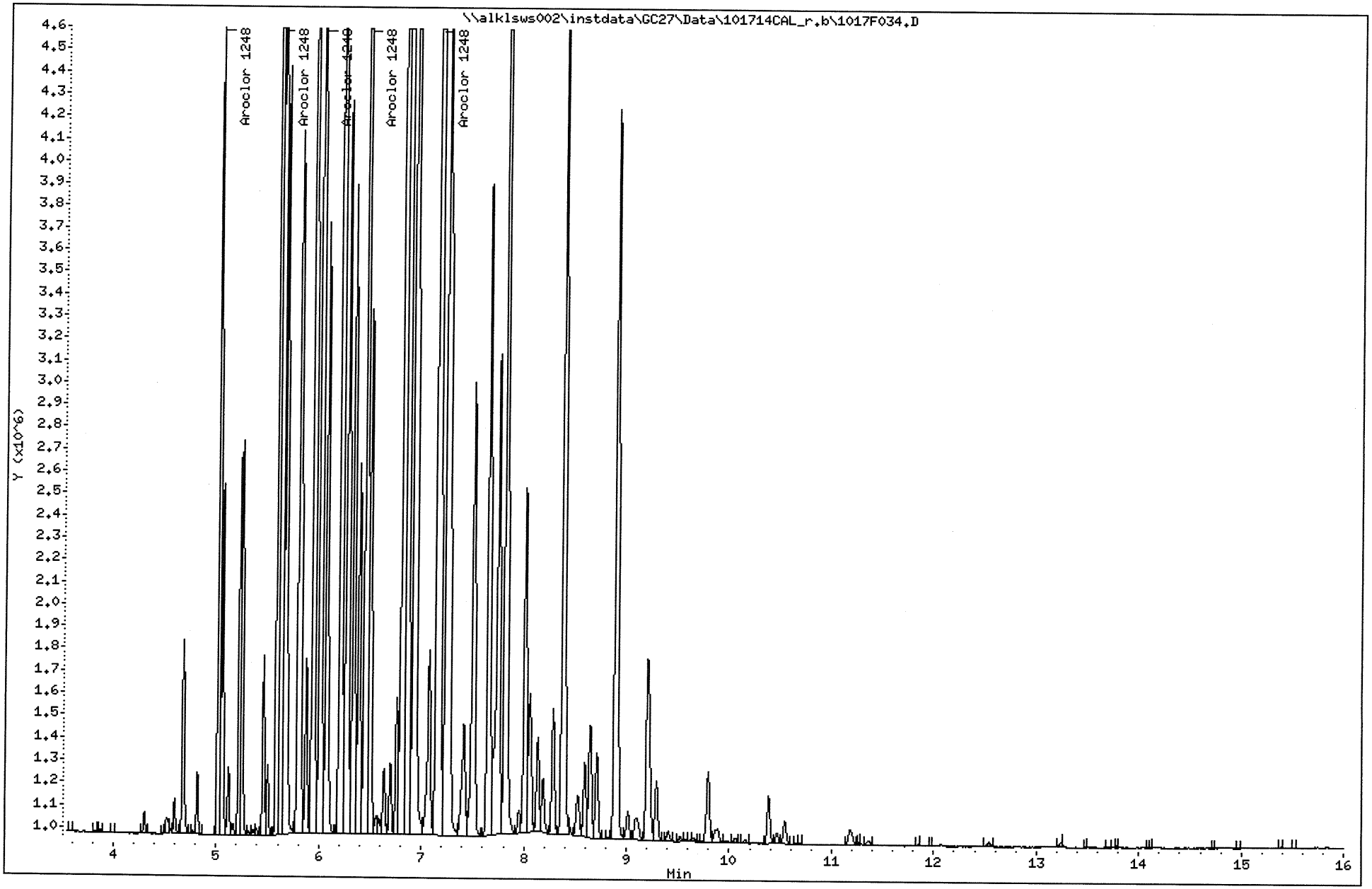


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

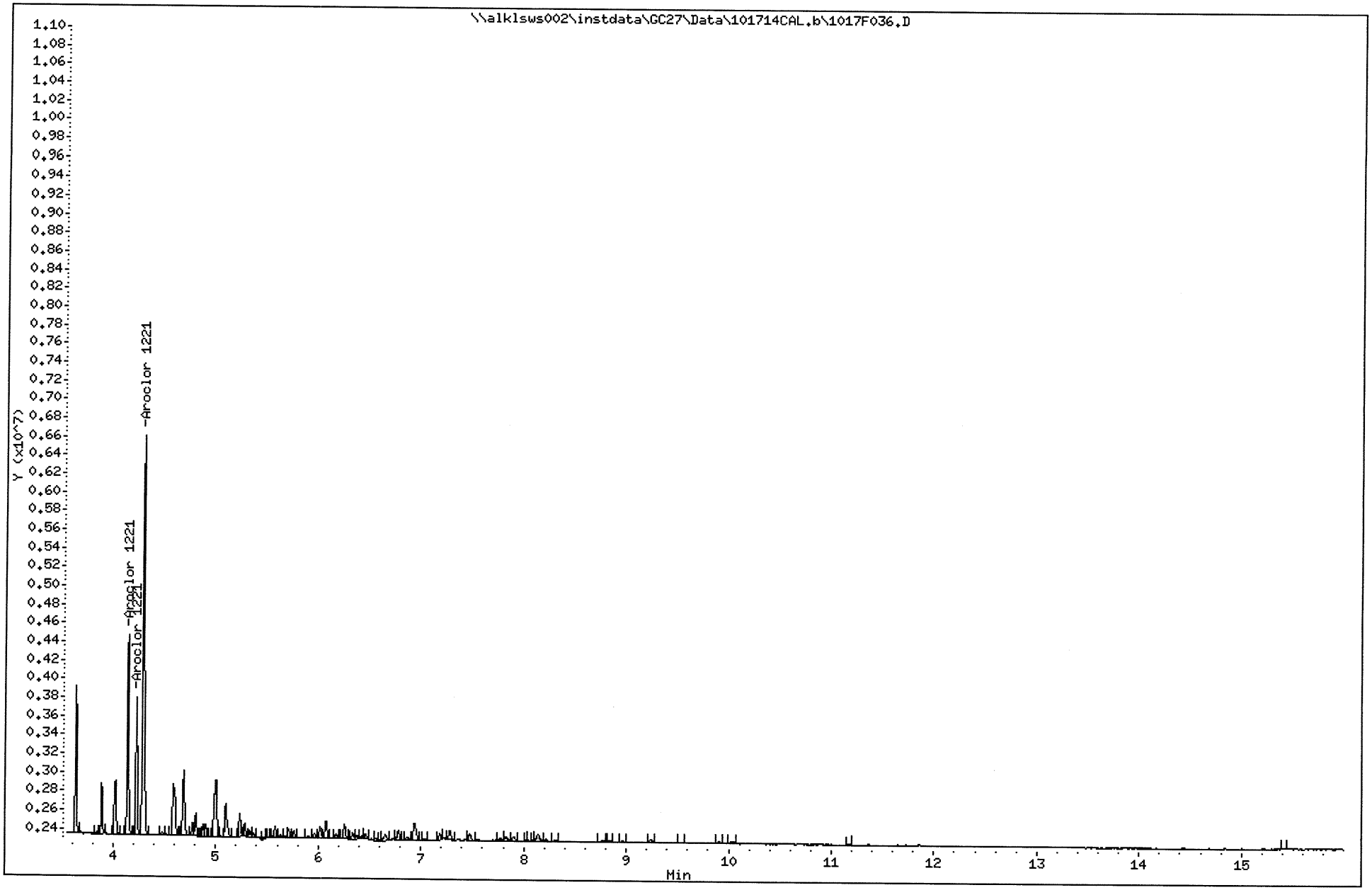
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



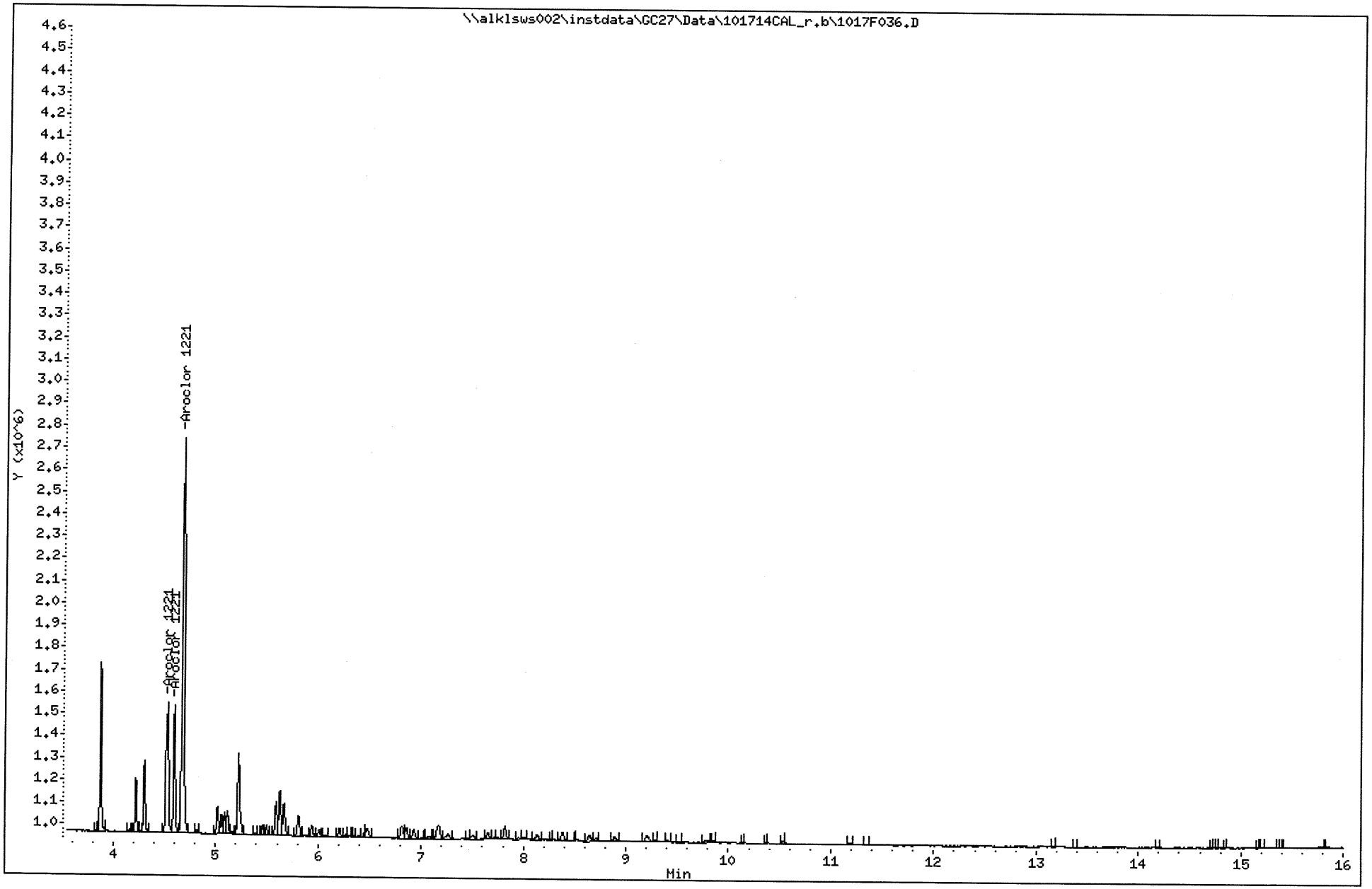
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

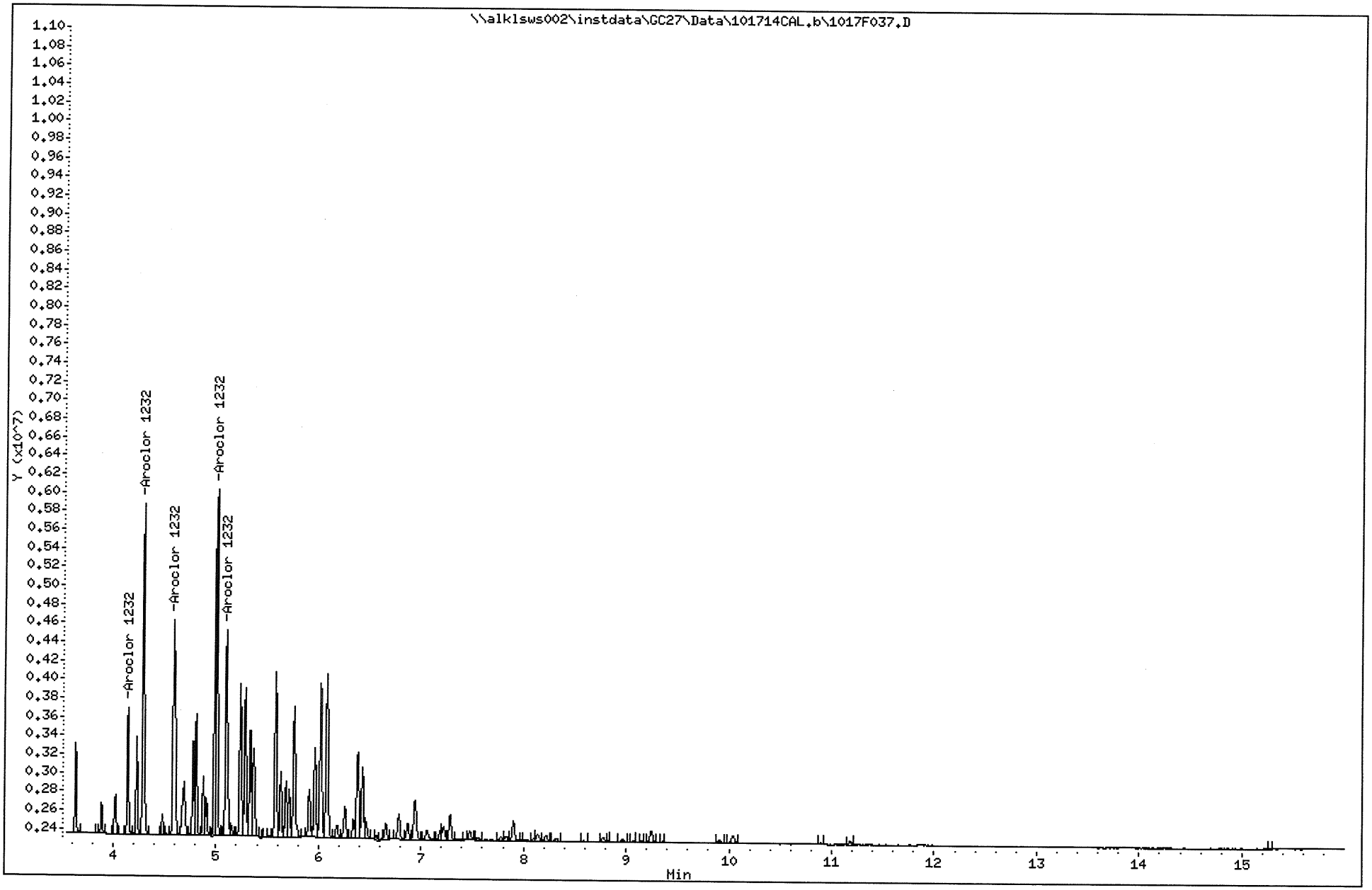
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

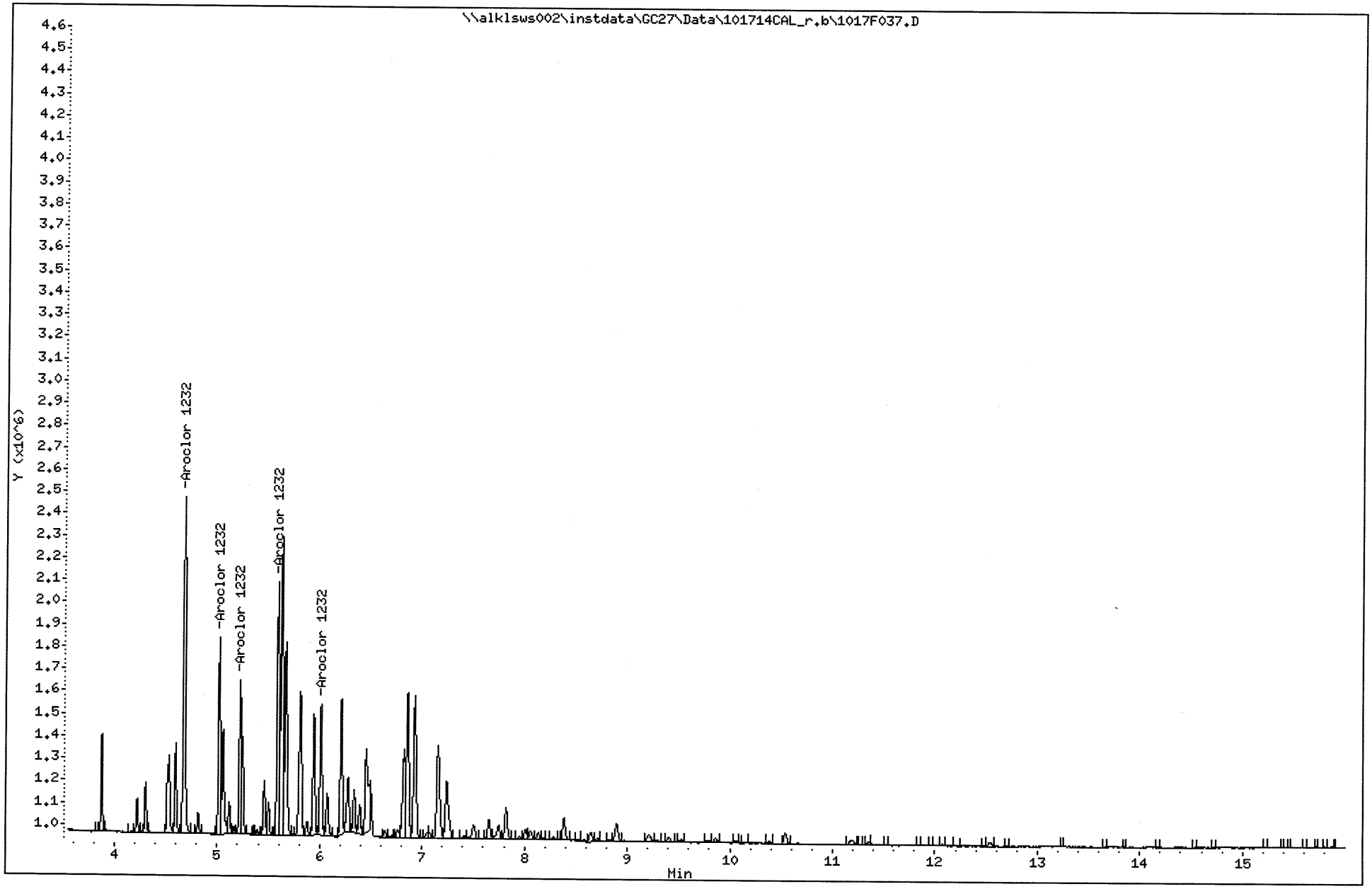


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

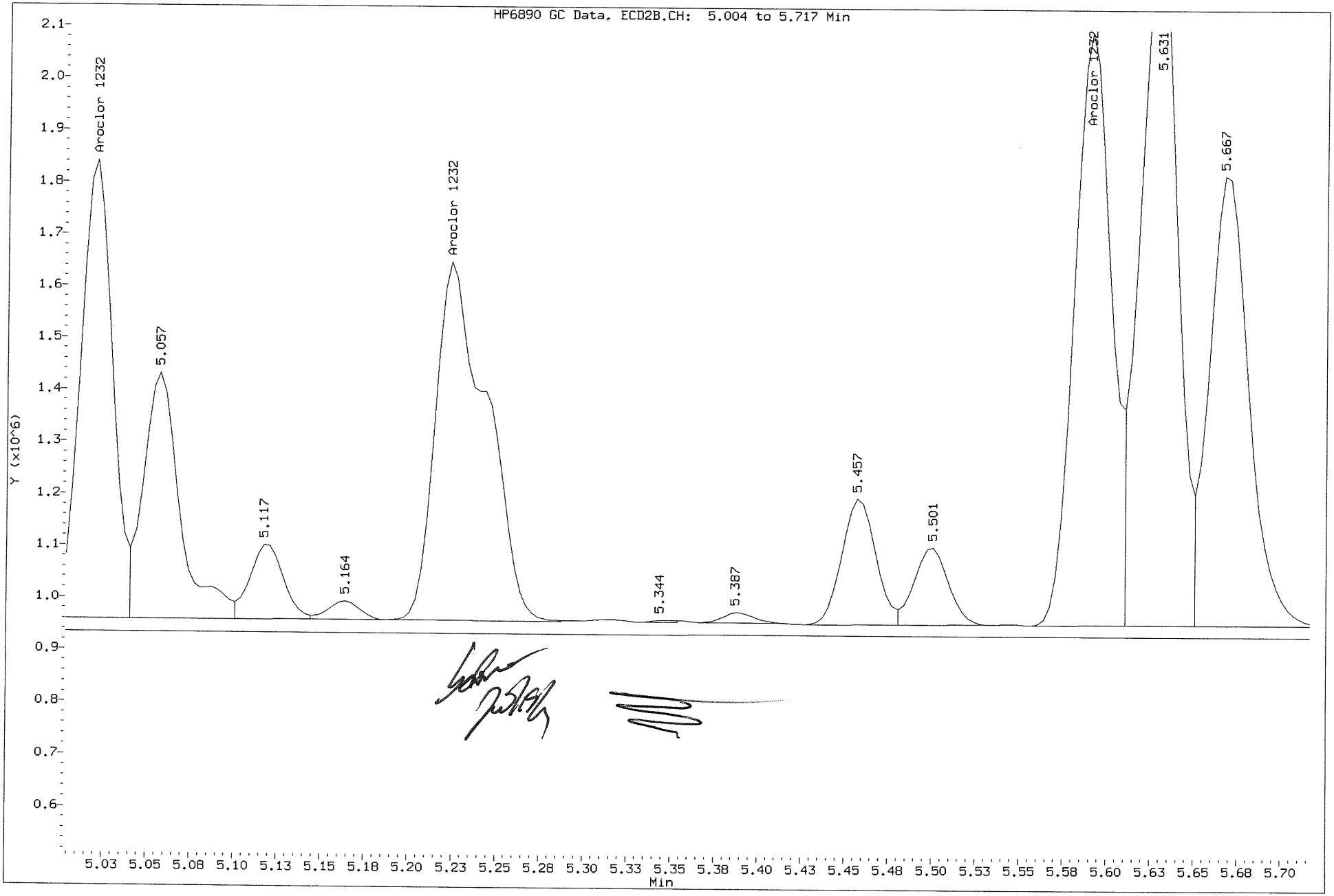
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

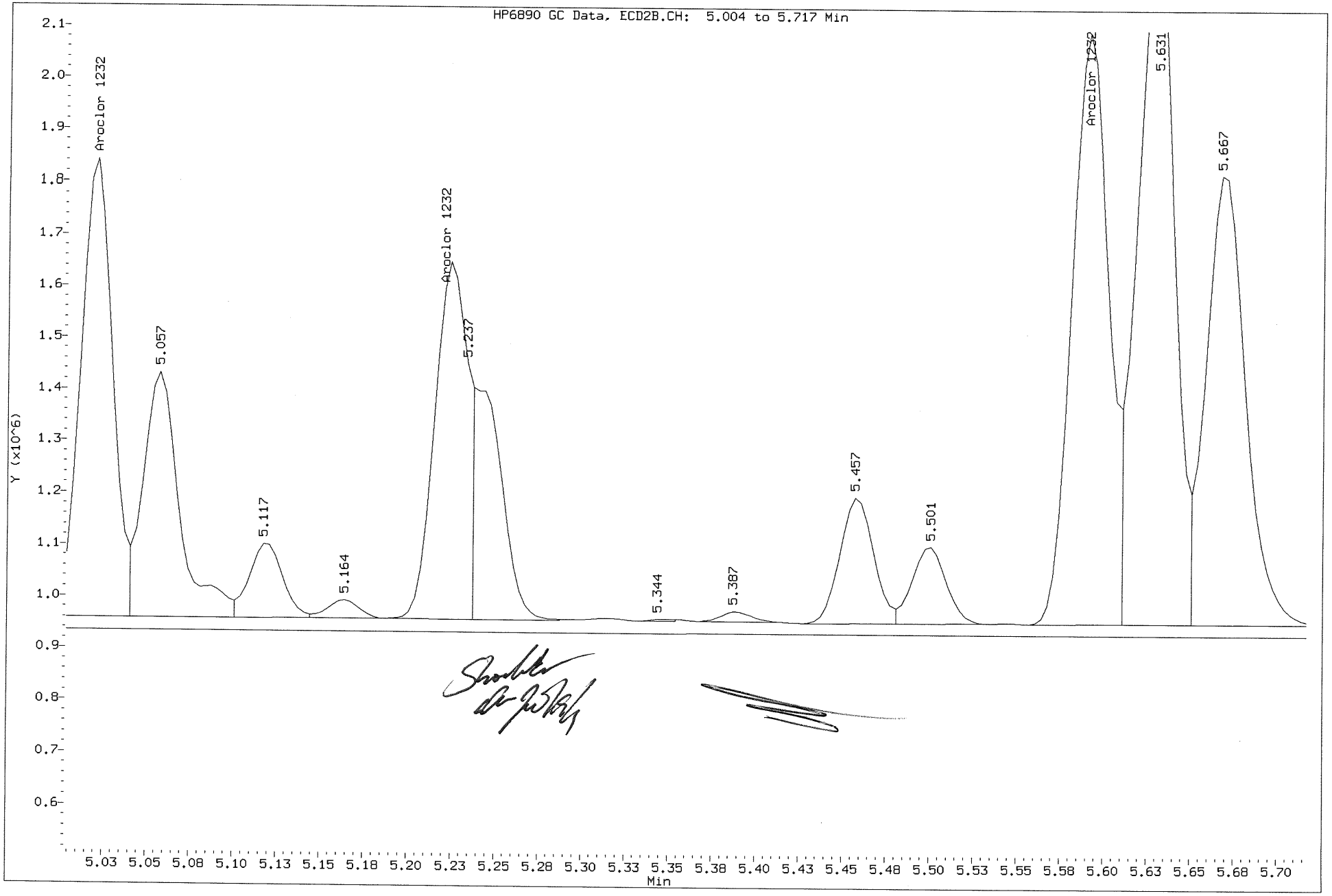
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

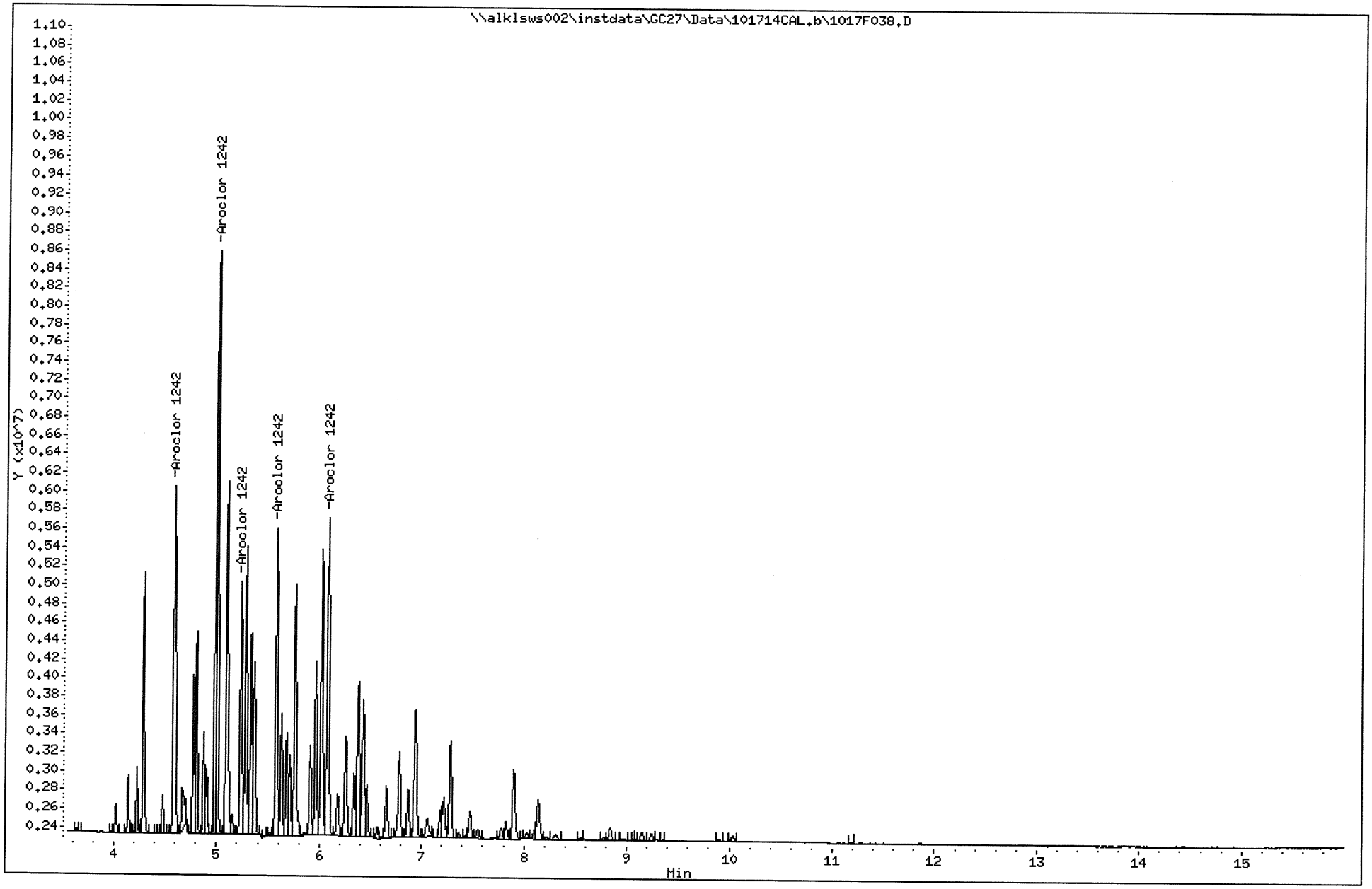
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

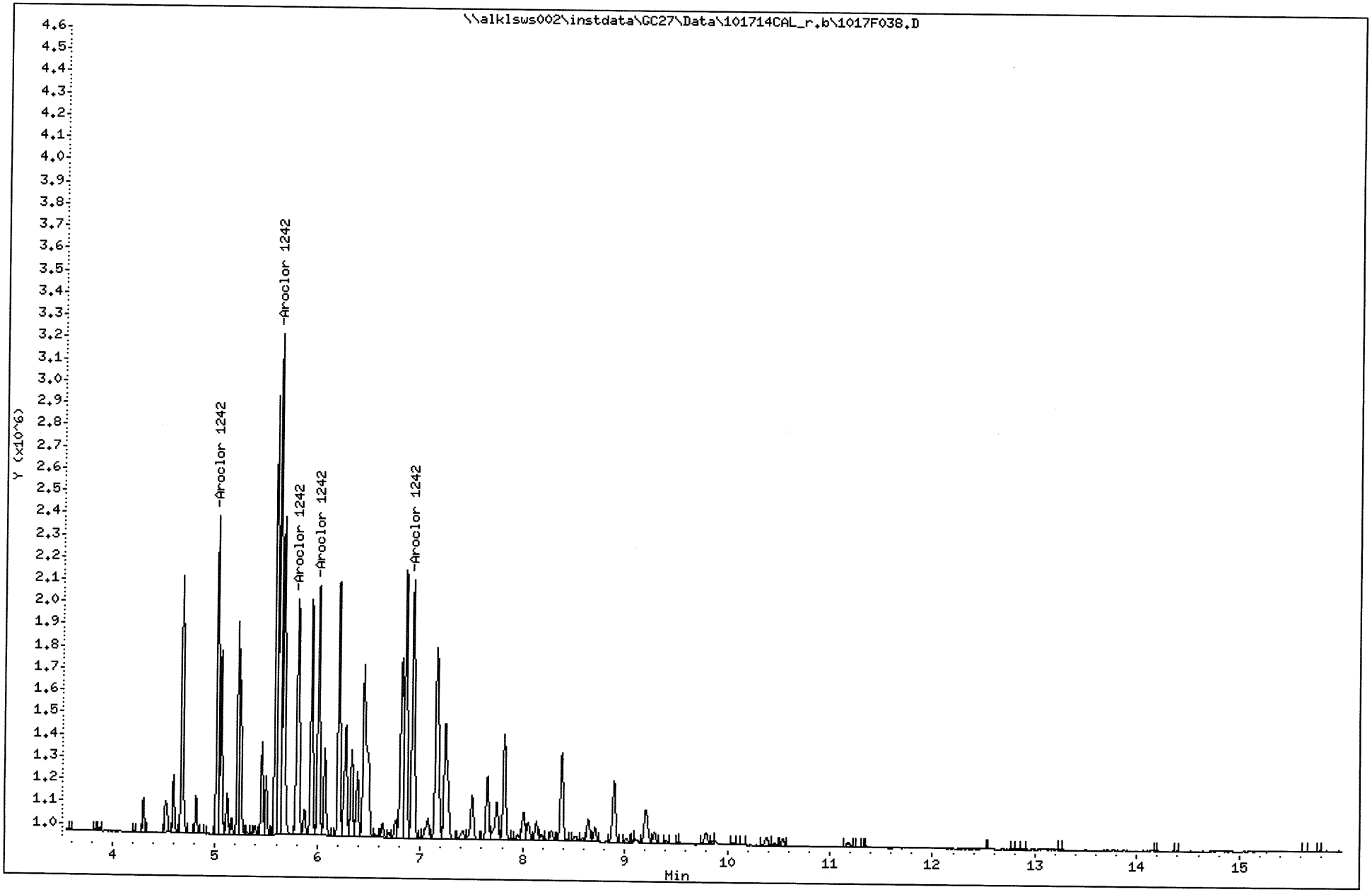


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

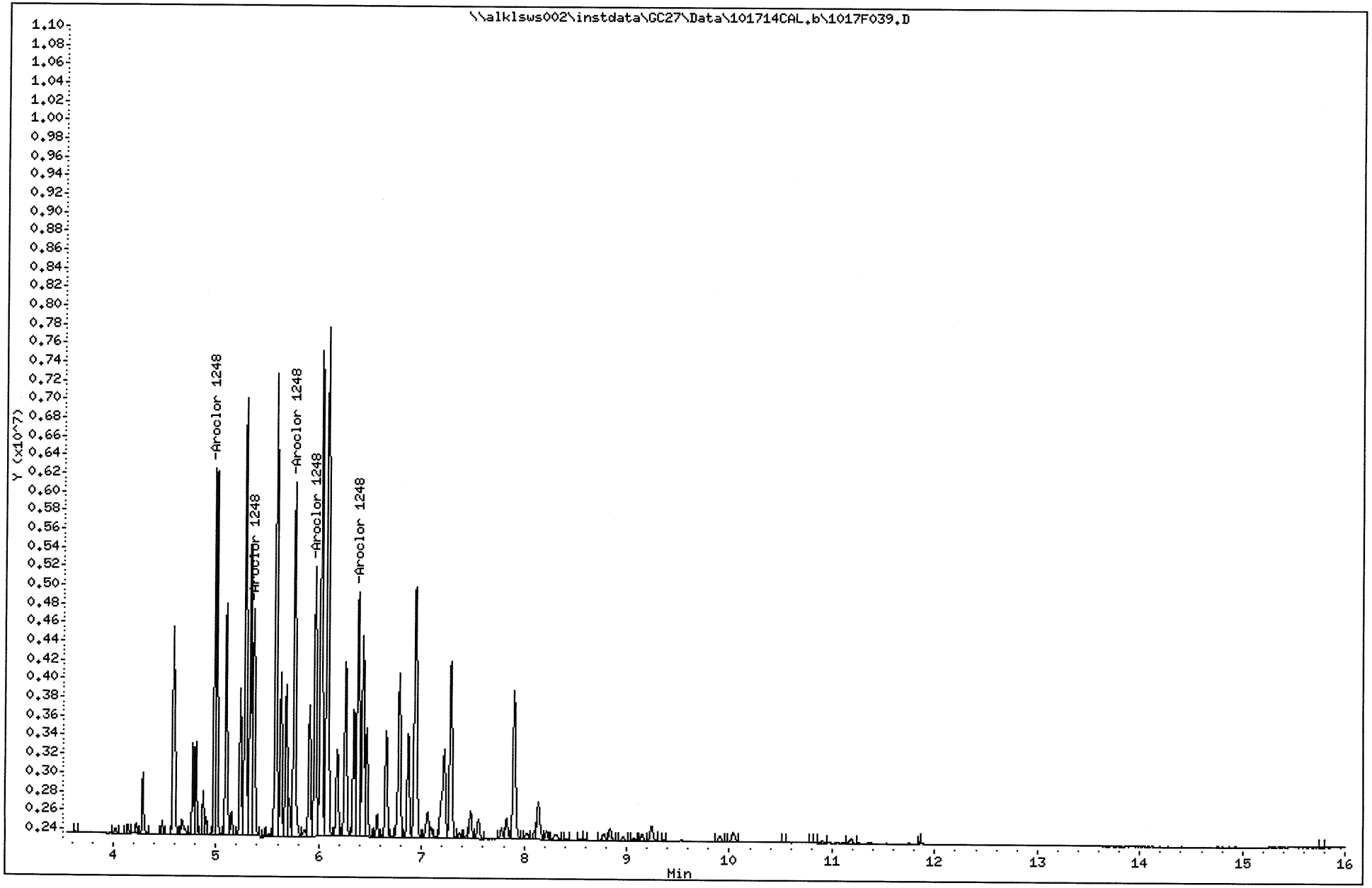
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



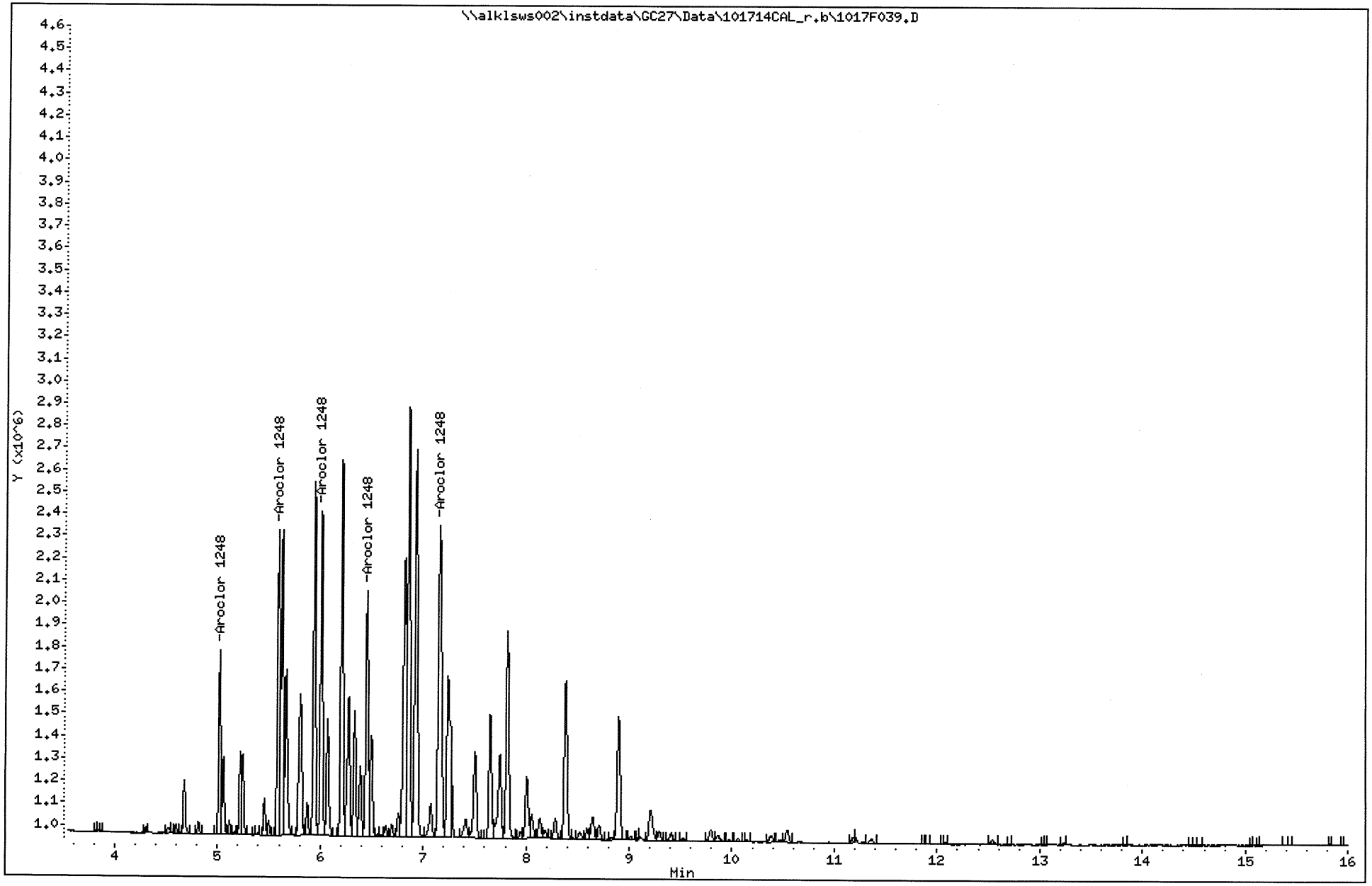
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

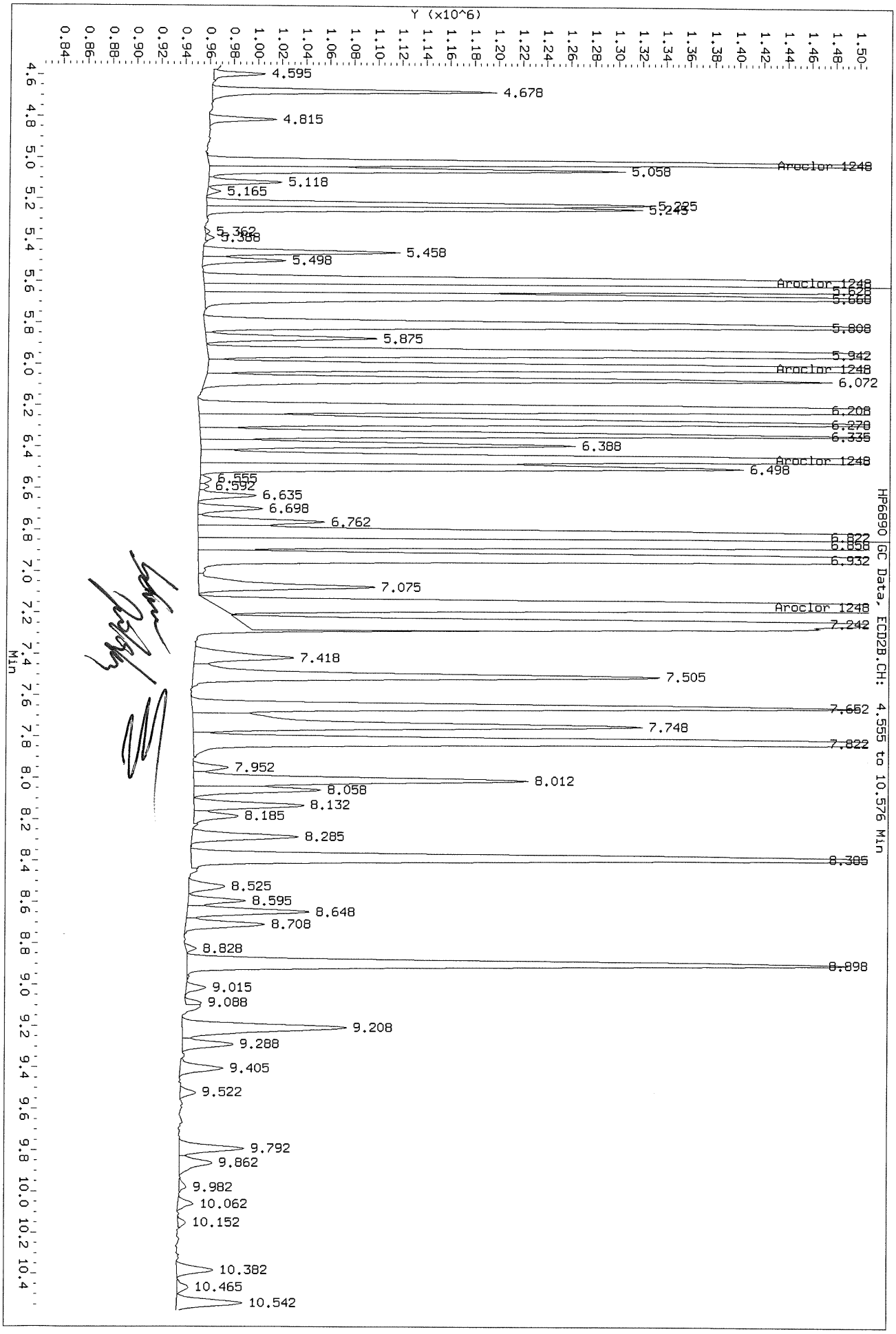
Operator: JMSmith

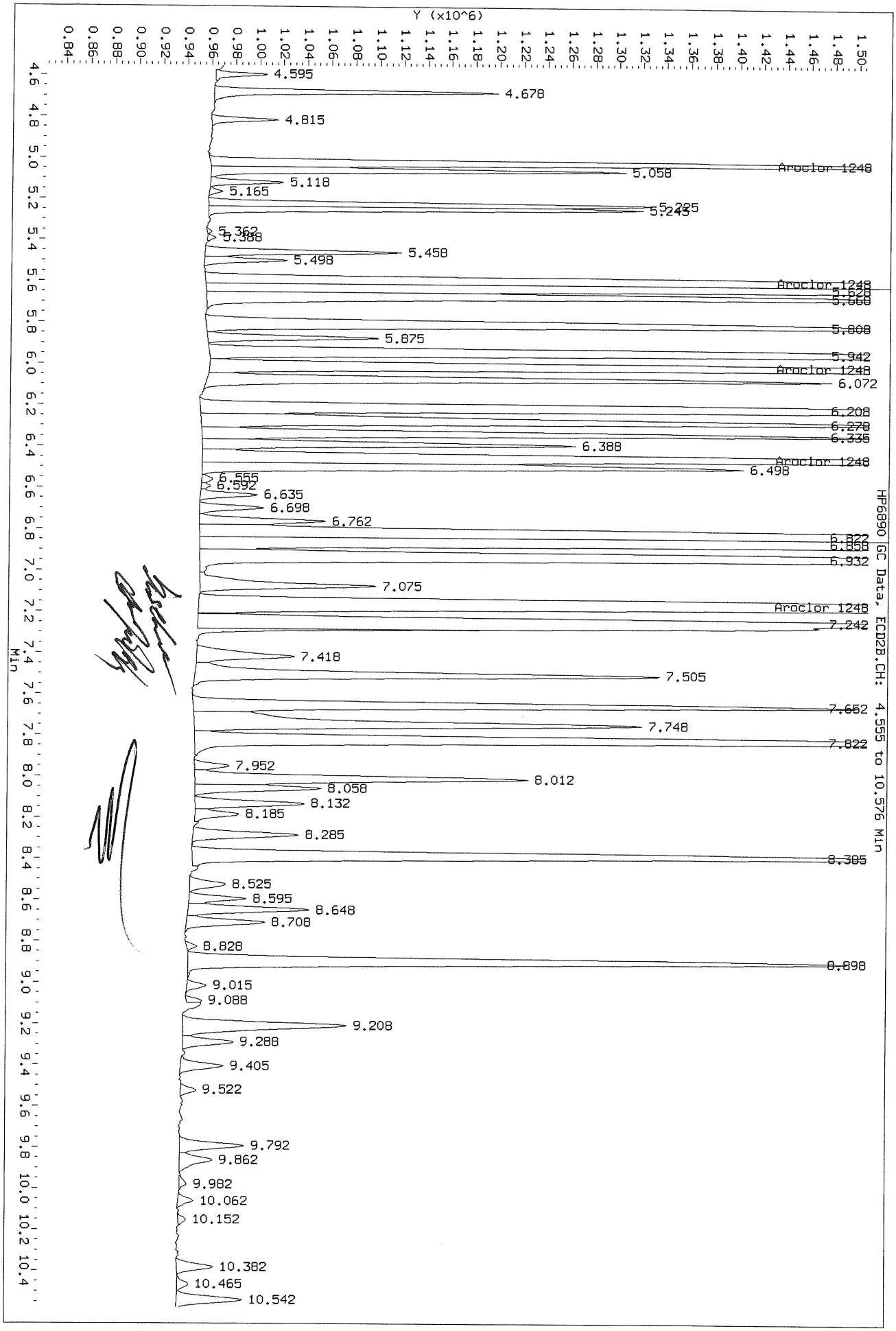
Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
6.278
6.335
6.388
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
8.305
8.525
8.595
8.648
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8.828
8.898
9.015
9.088
9.208
9.288
9.405
9.522
9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

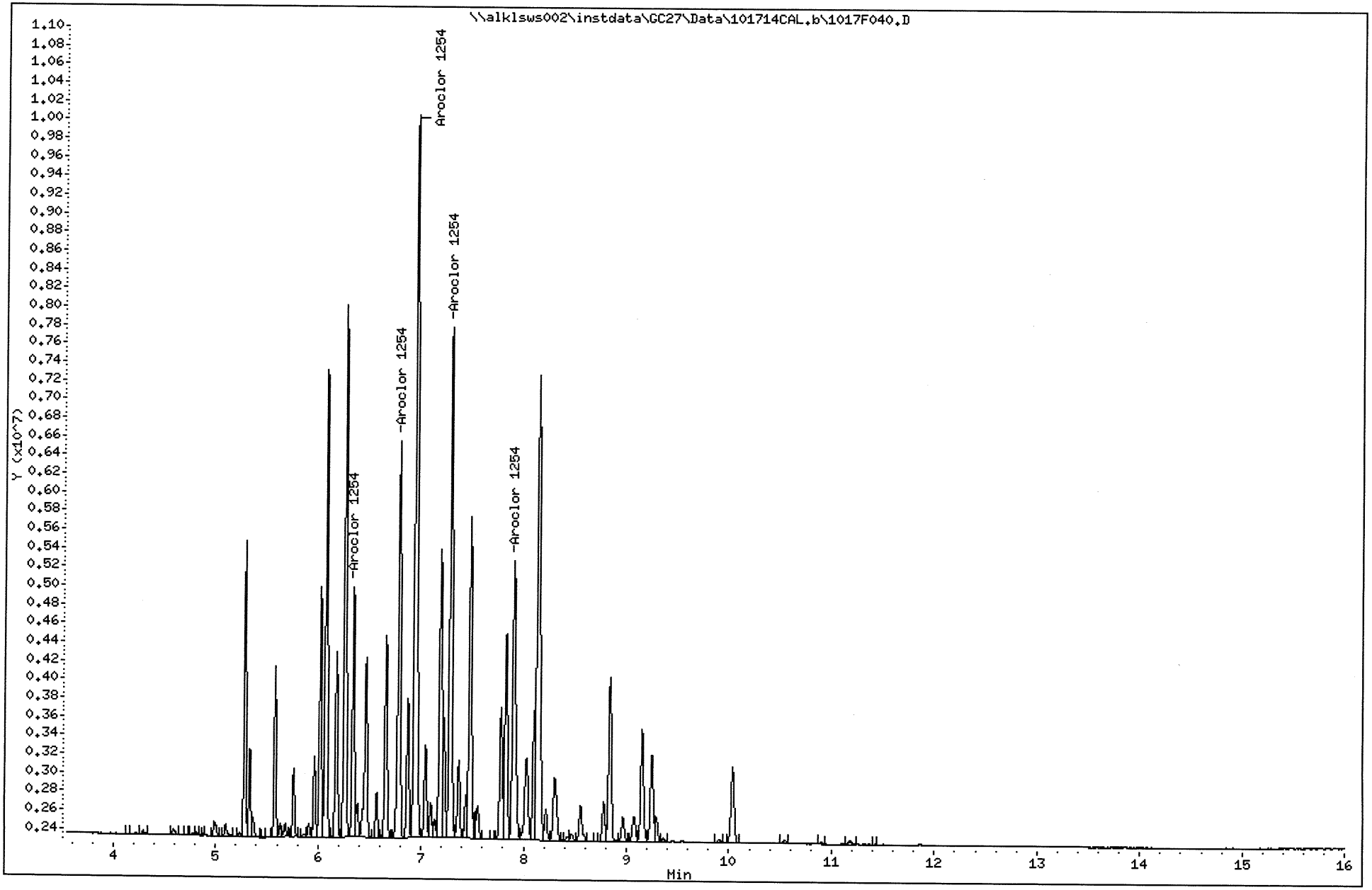
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



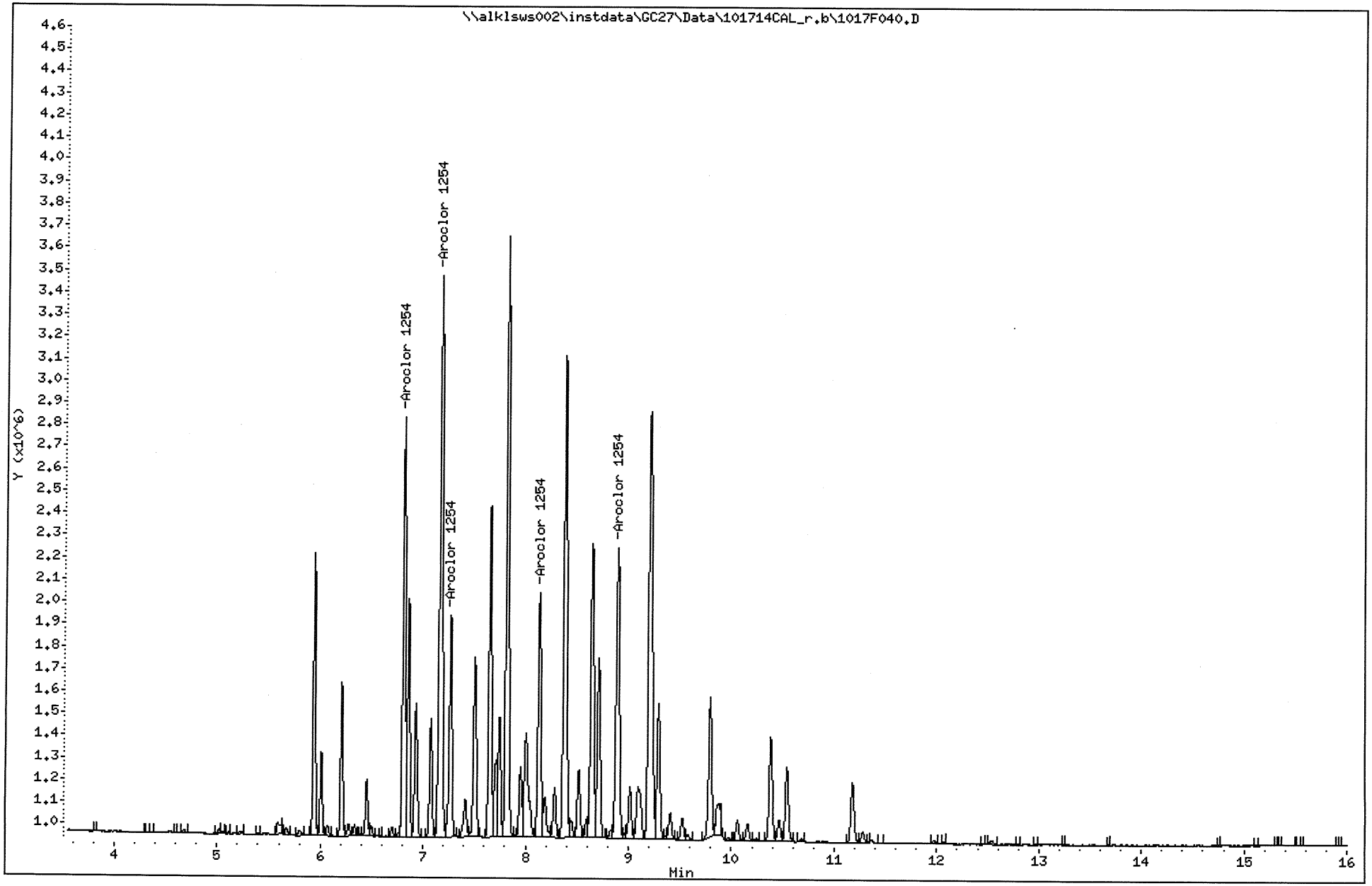
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

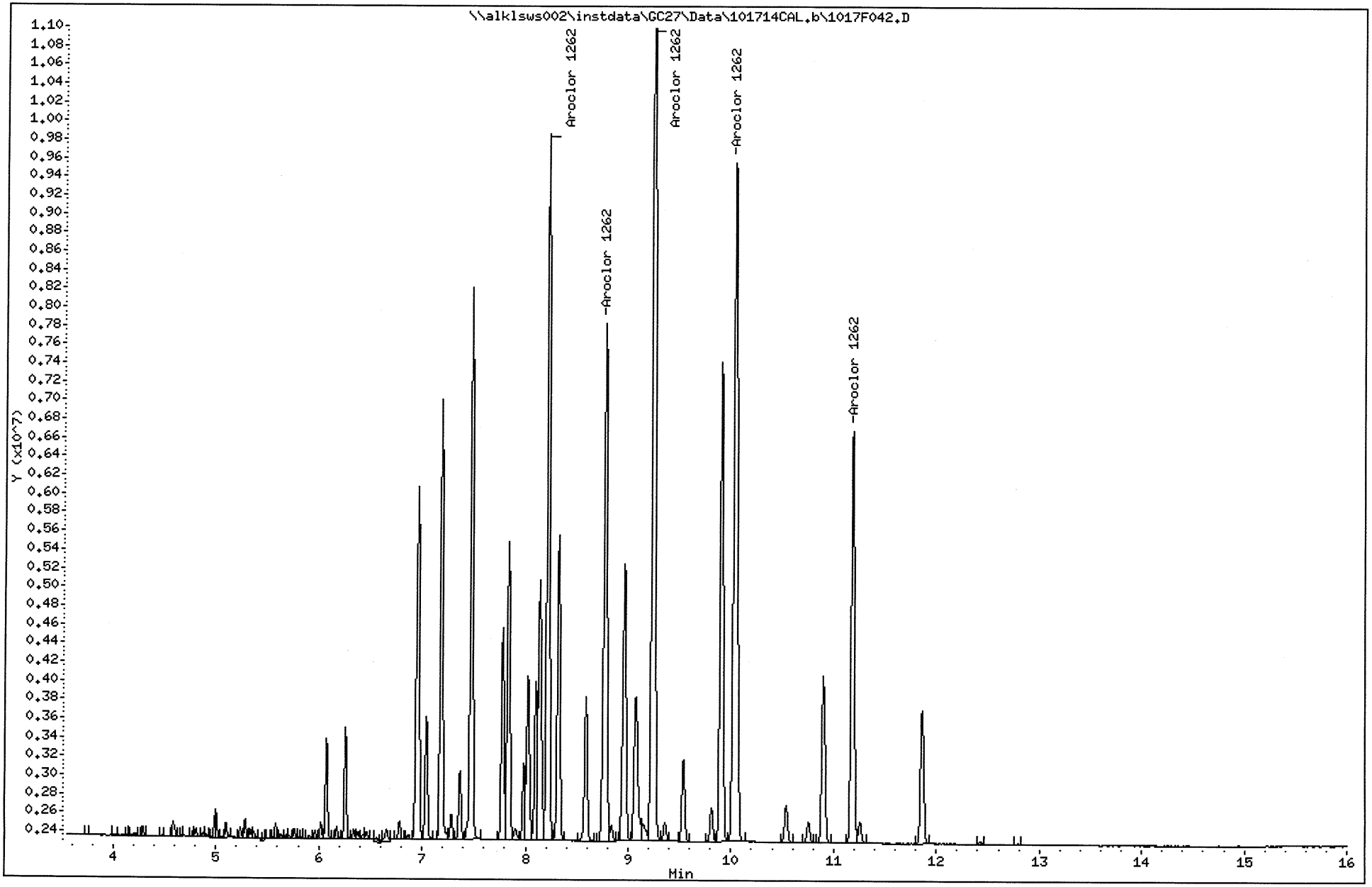
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



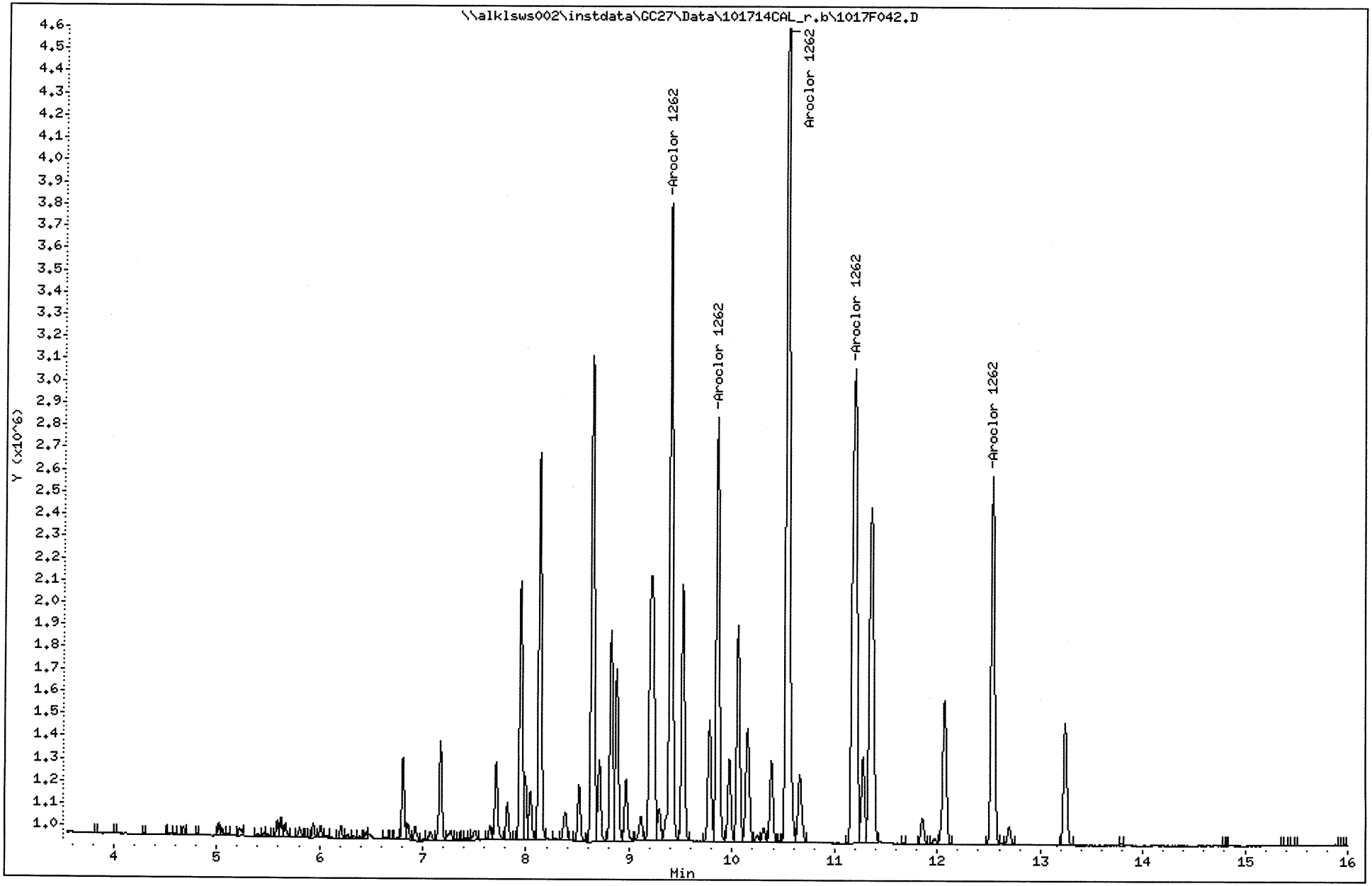
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

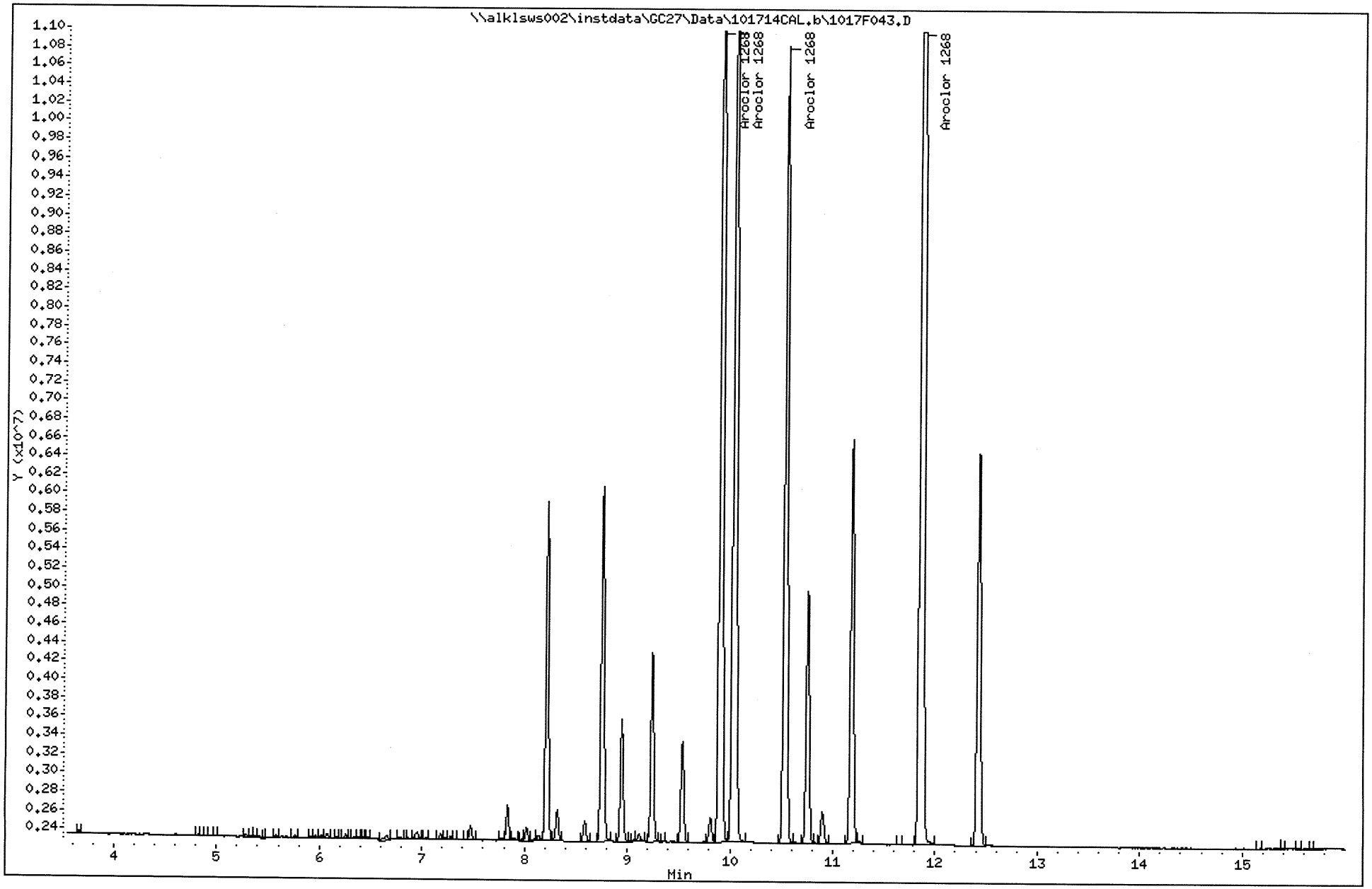
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

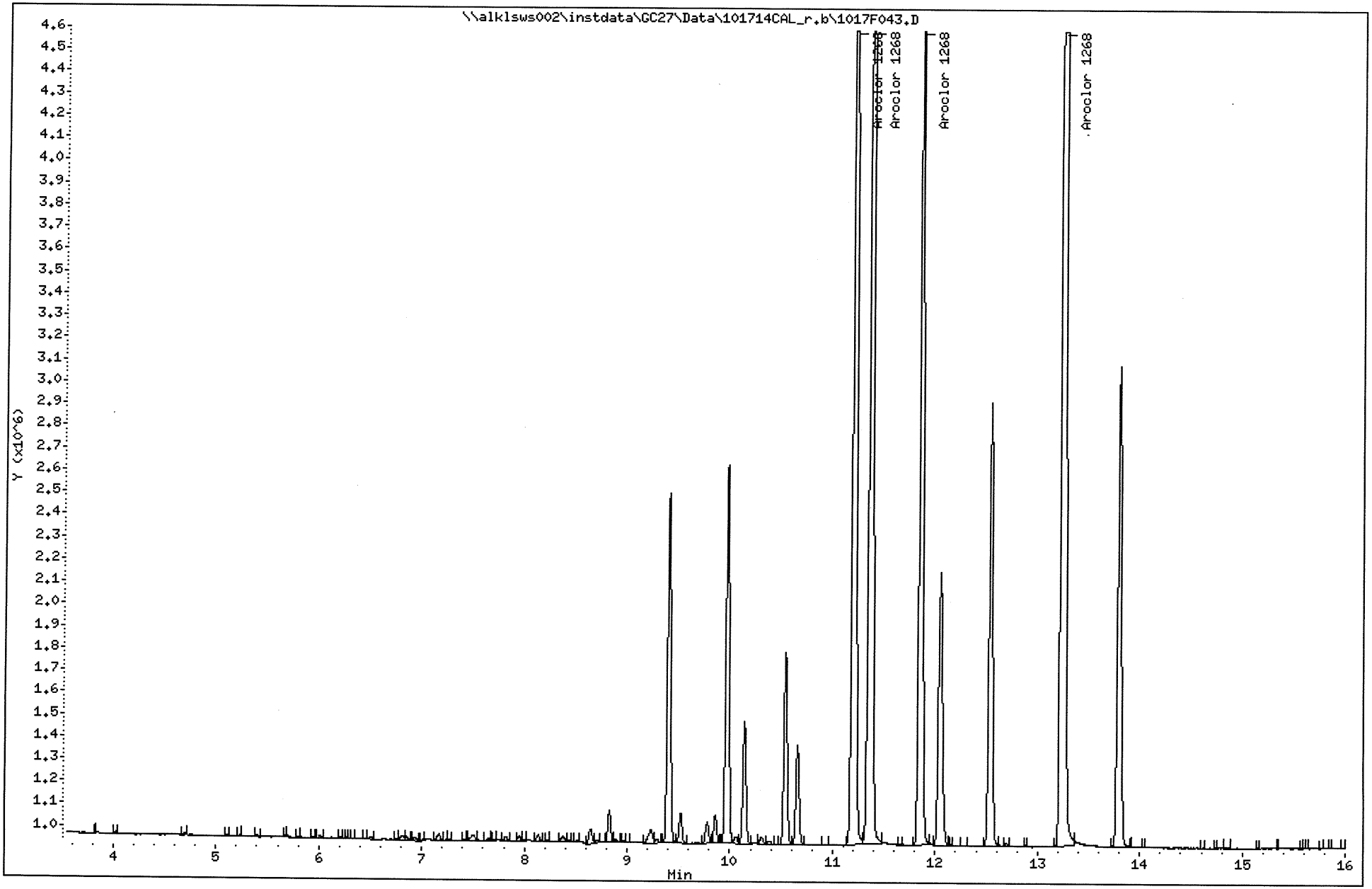


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

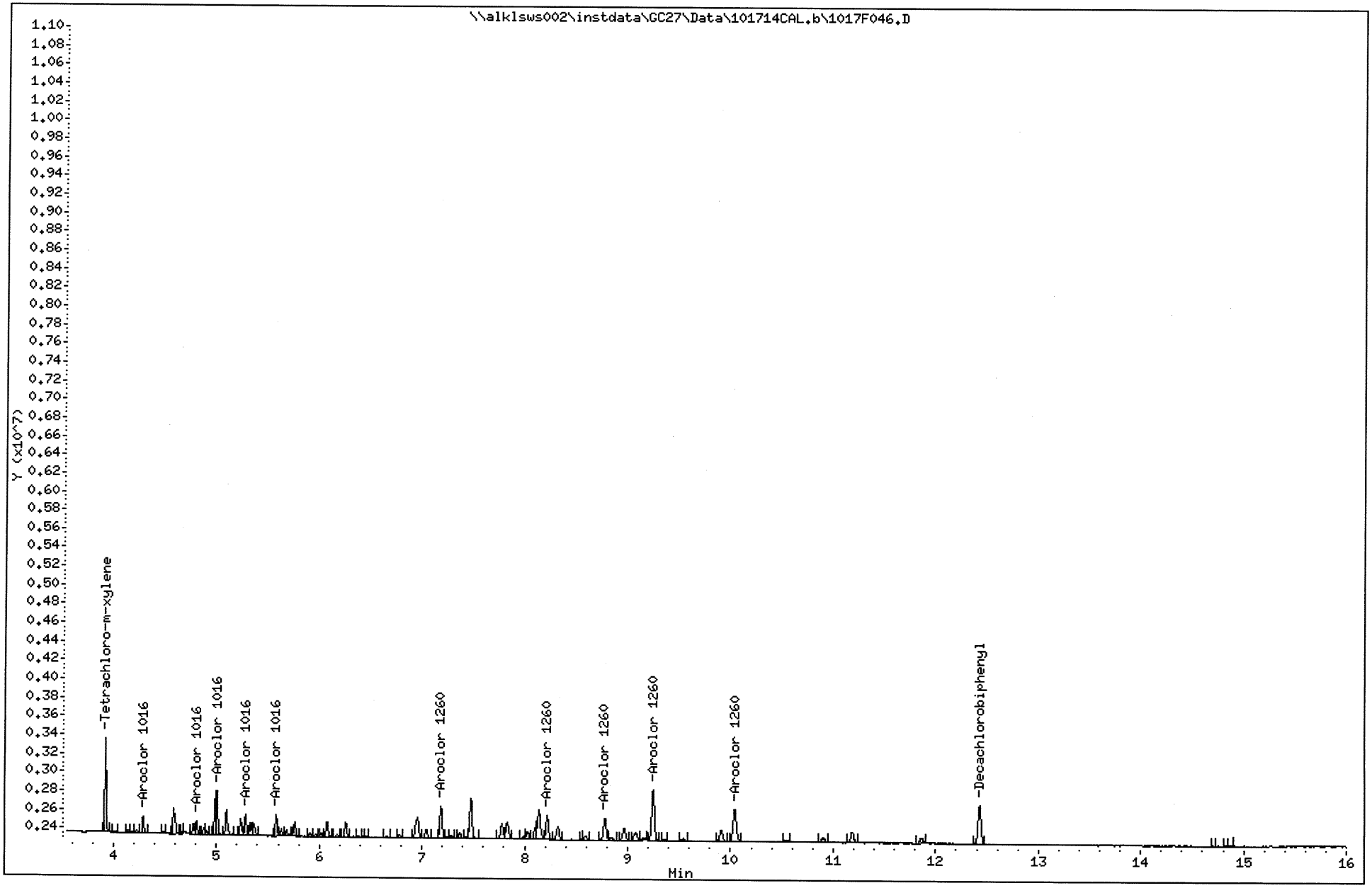
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

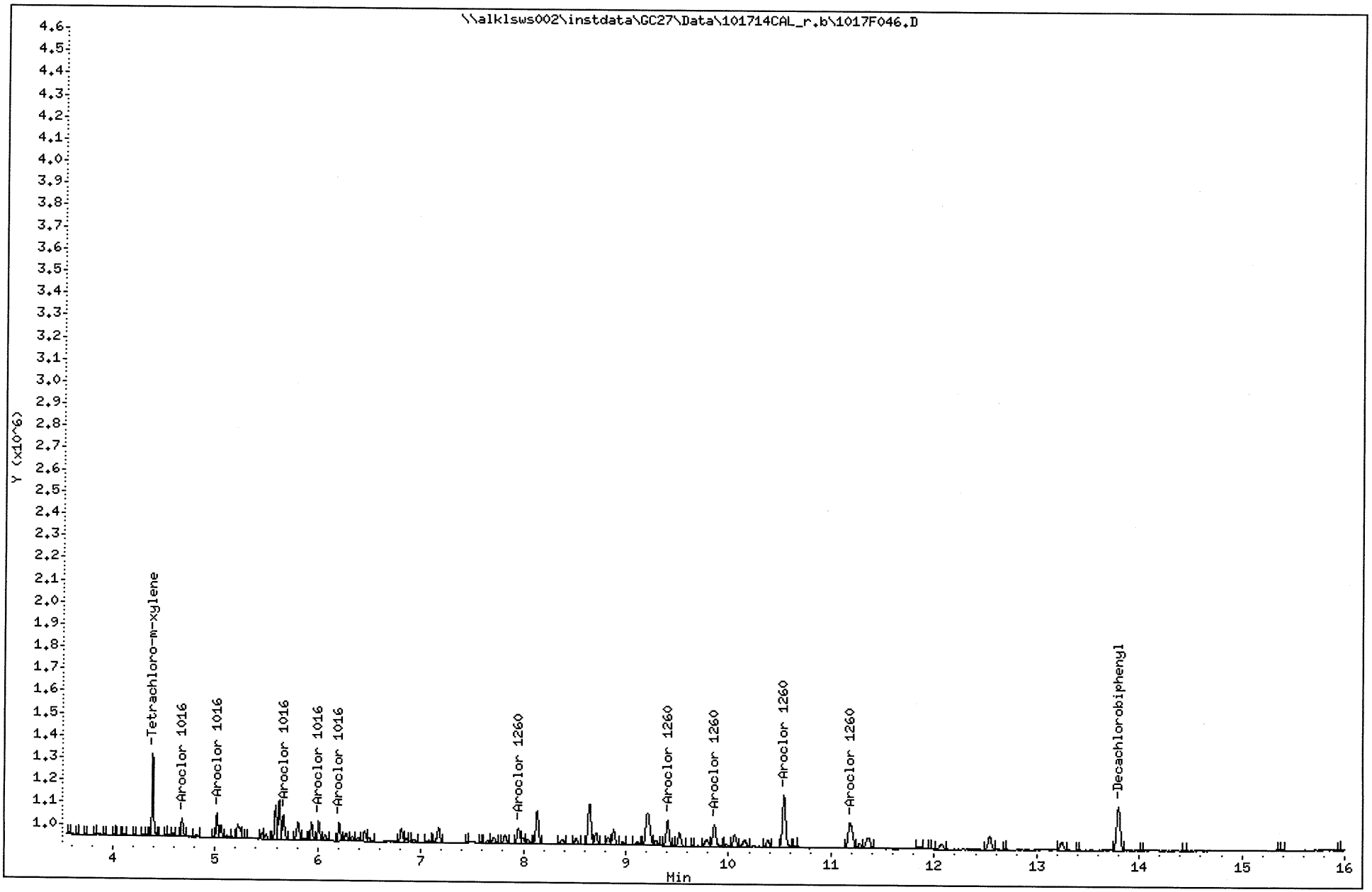


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

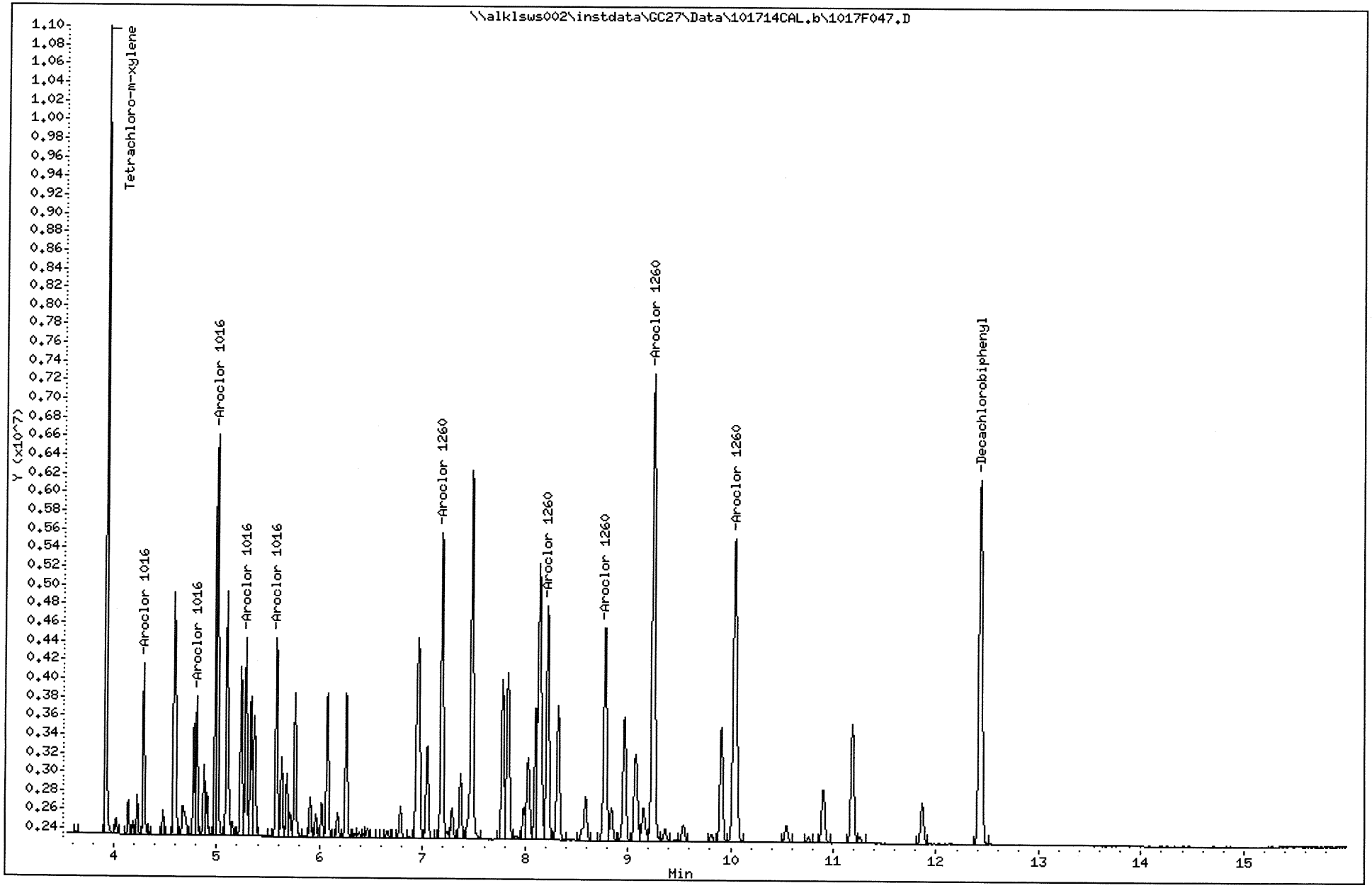
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



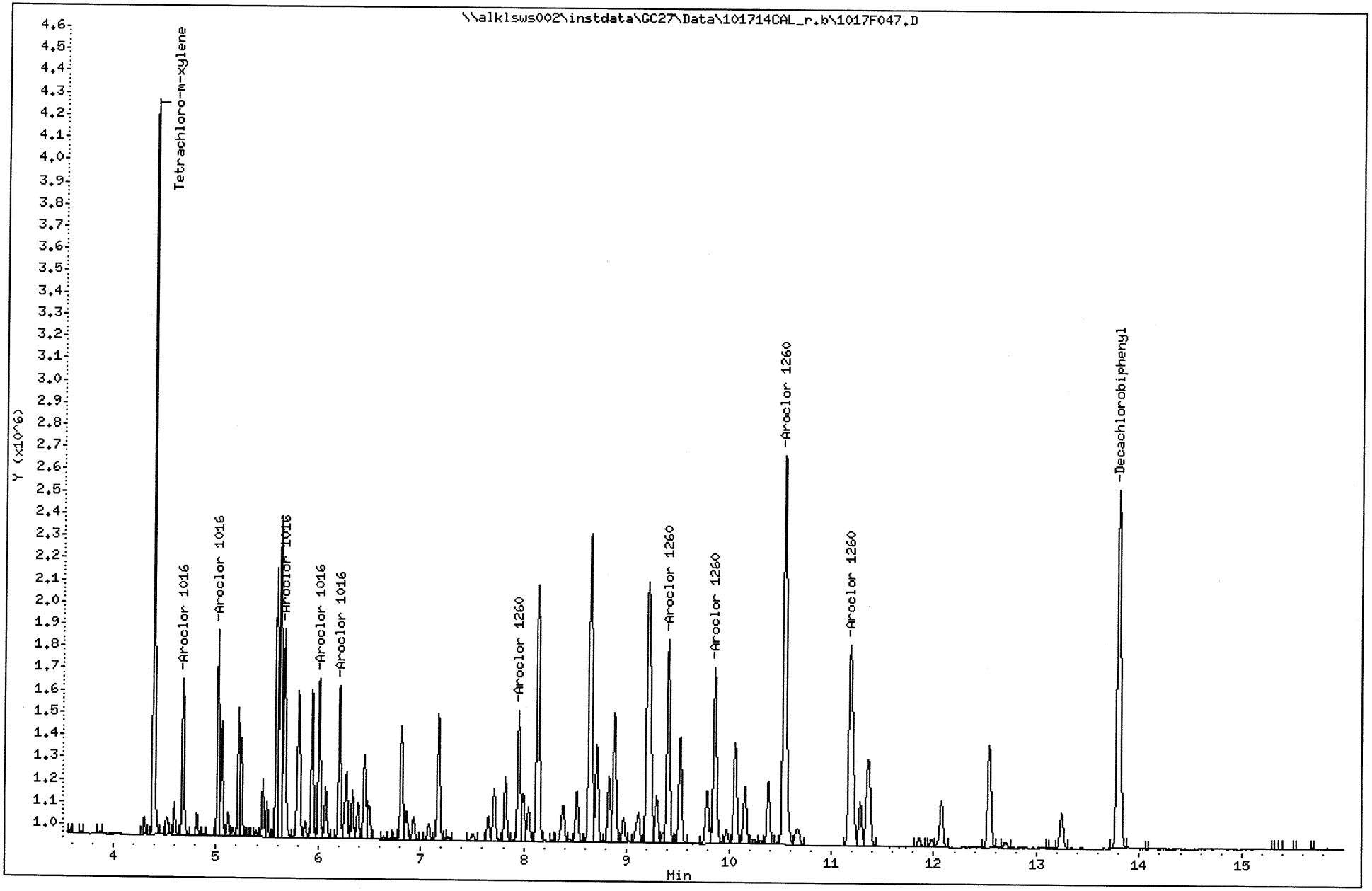
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



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Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

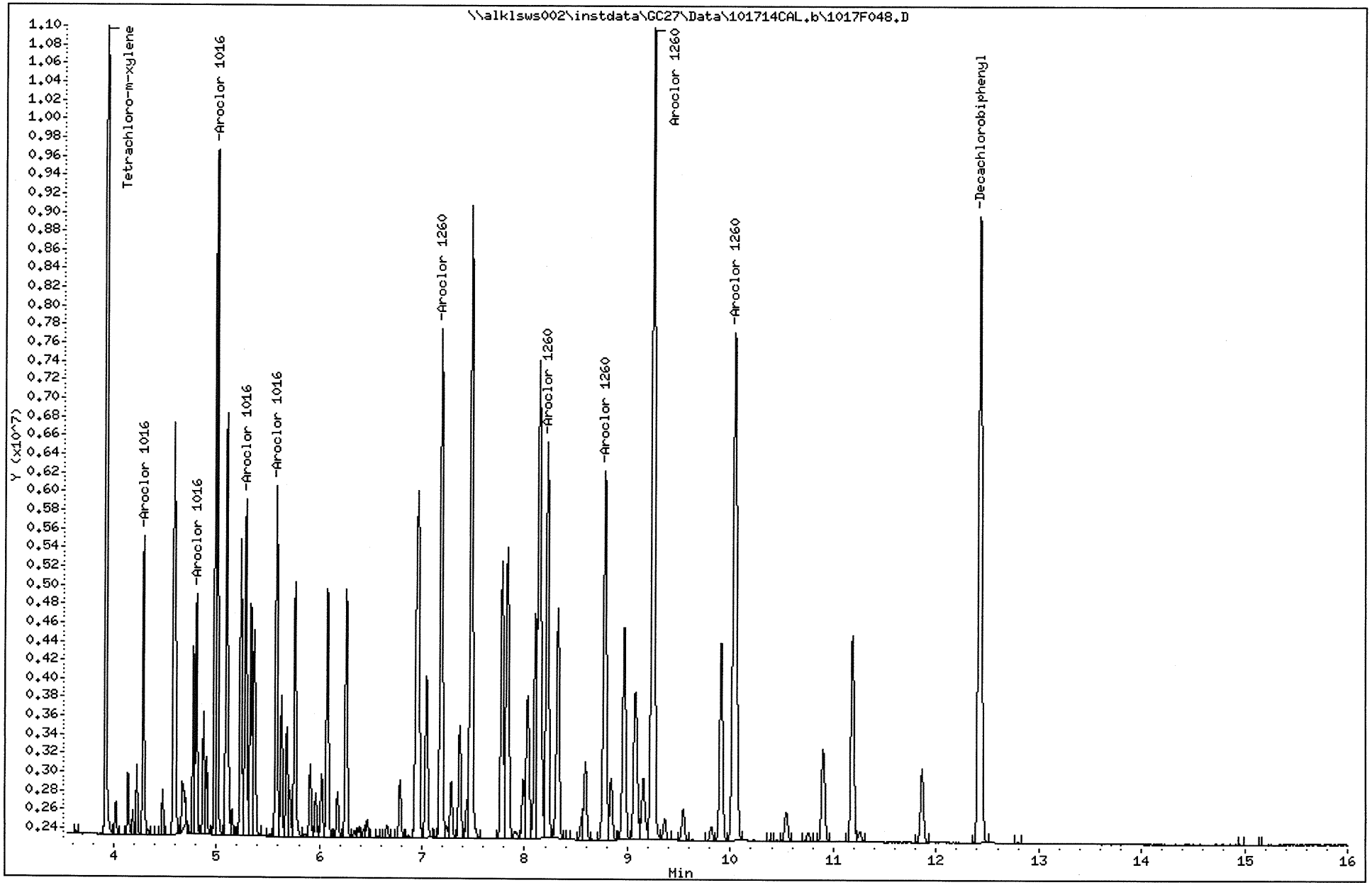
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



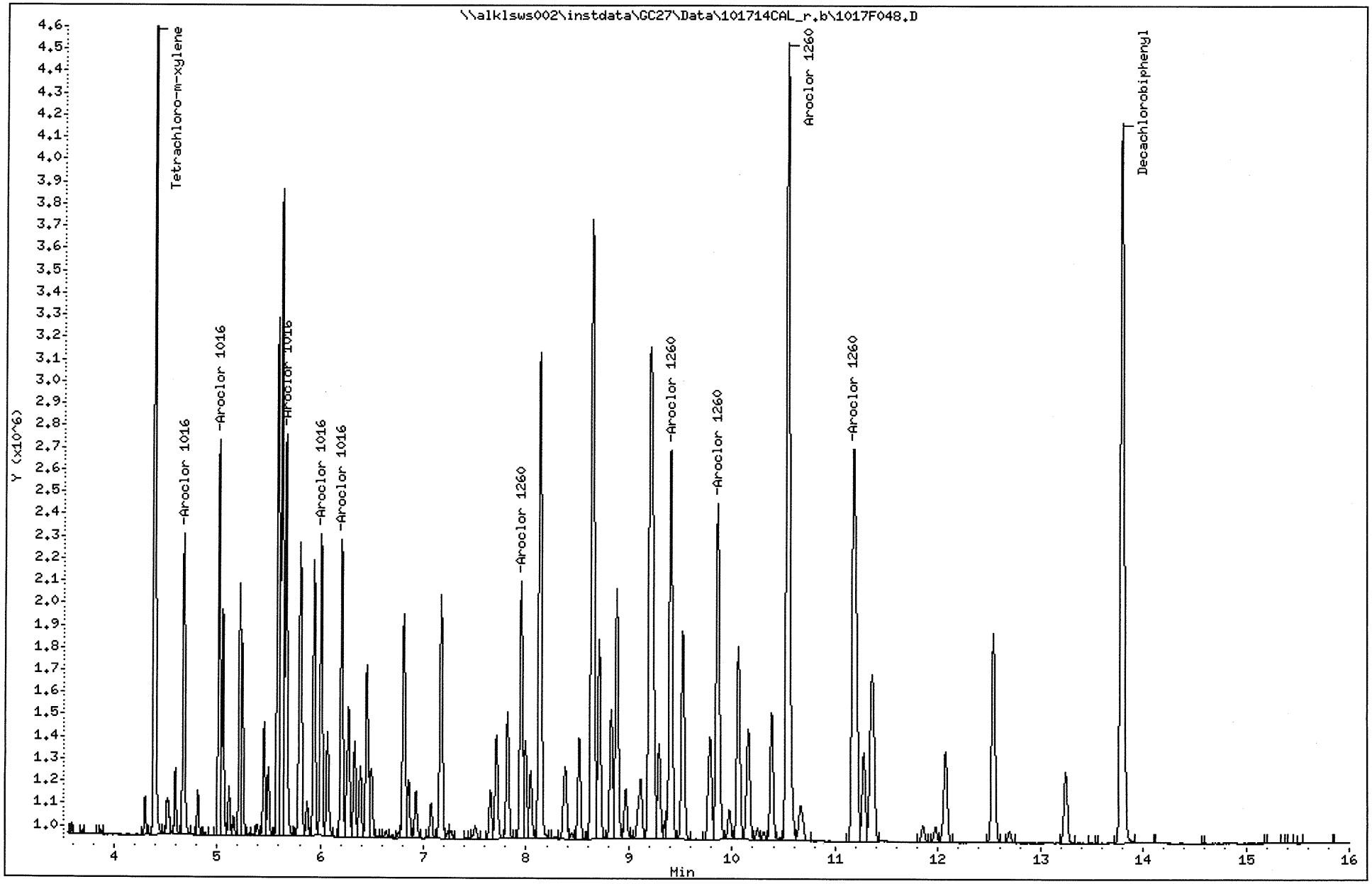
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

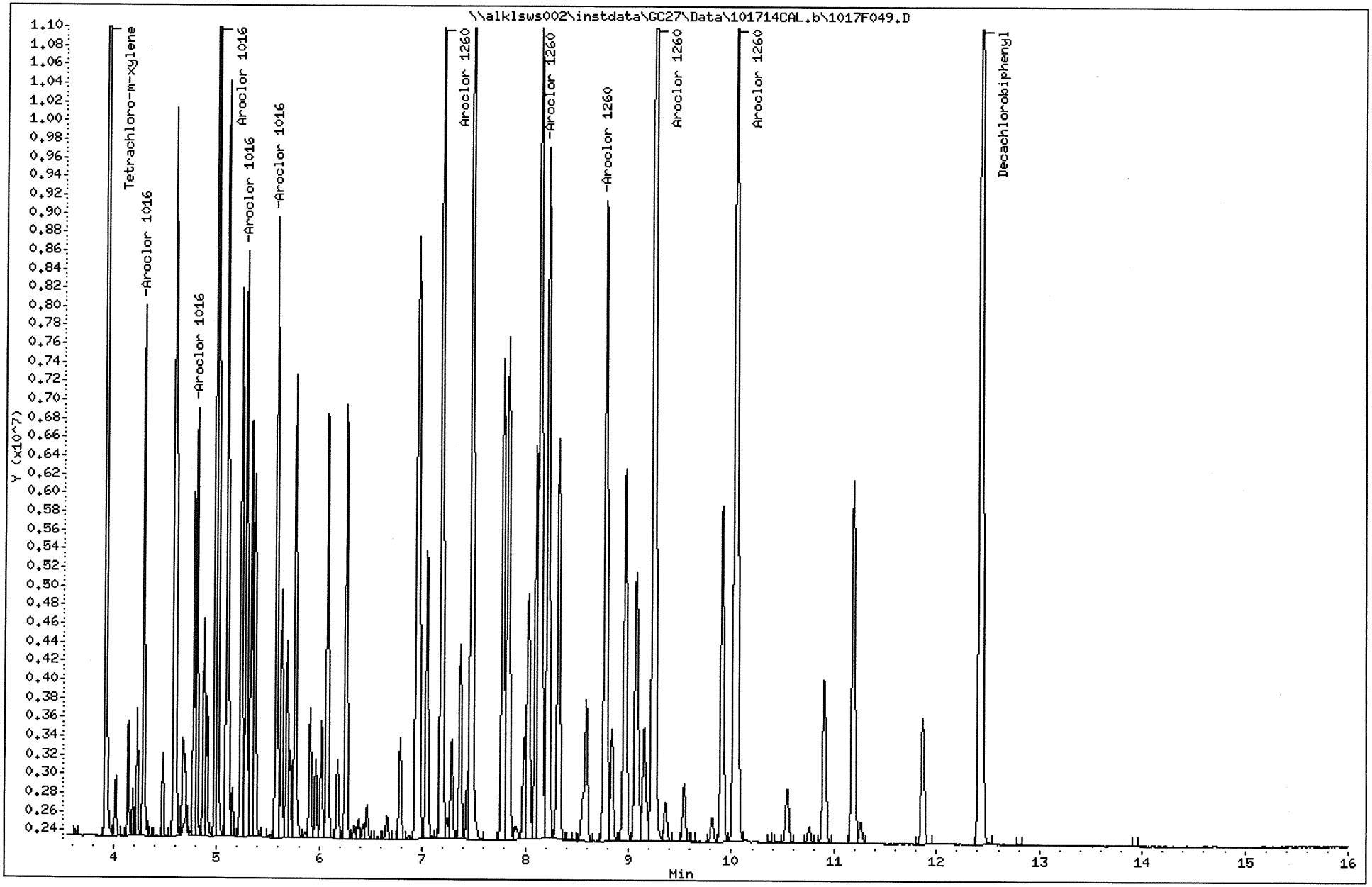
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



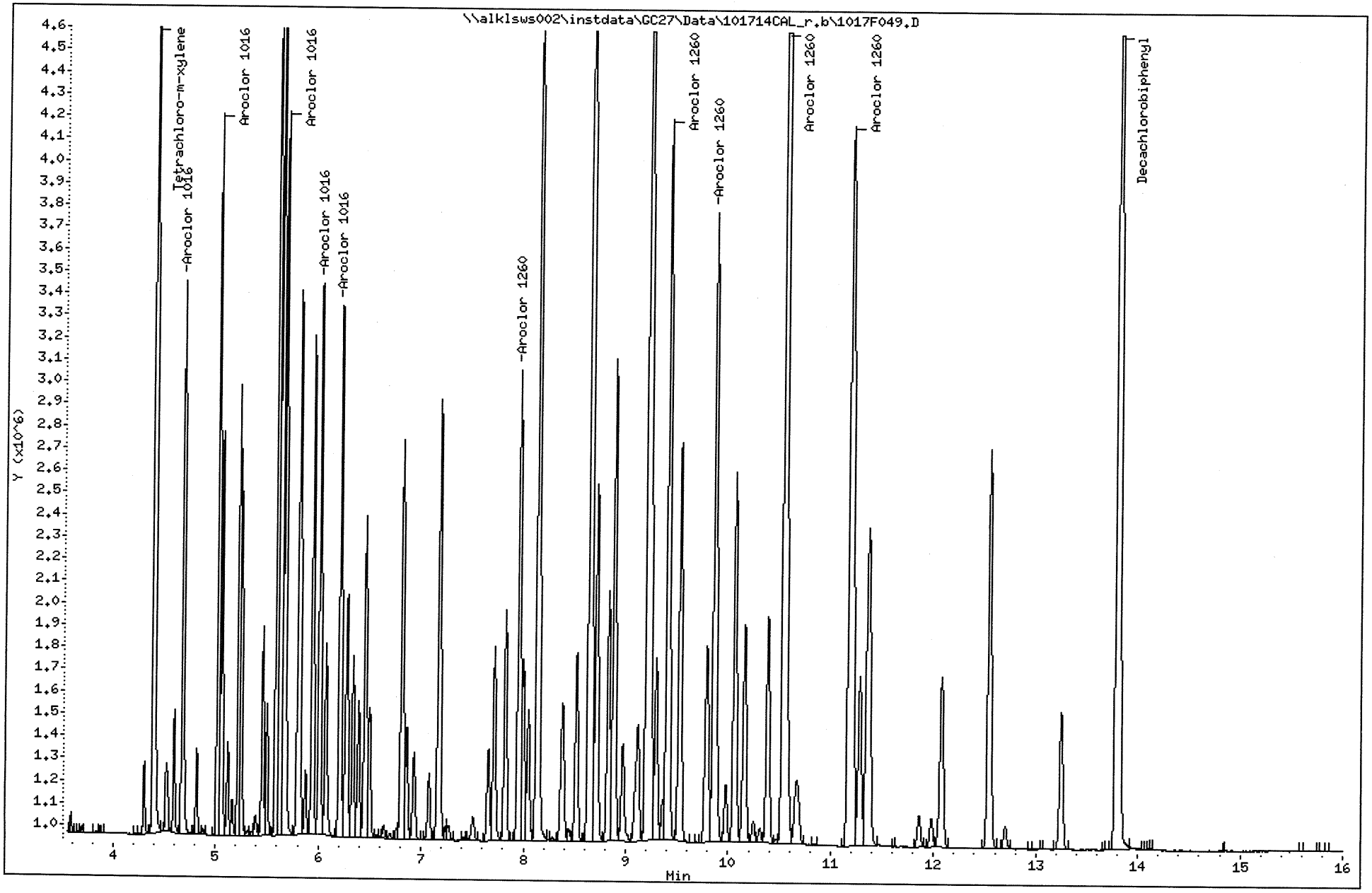
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

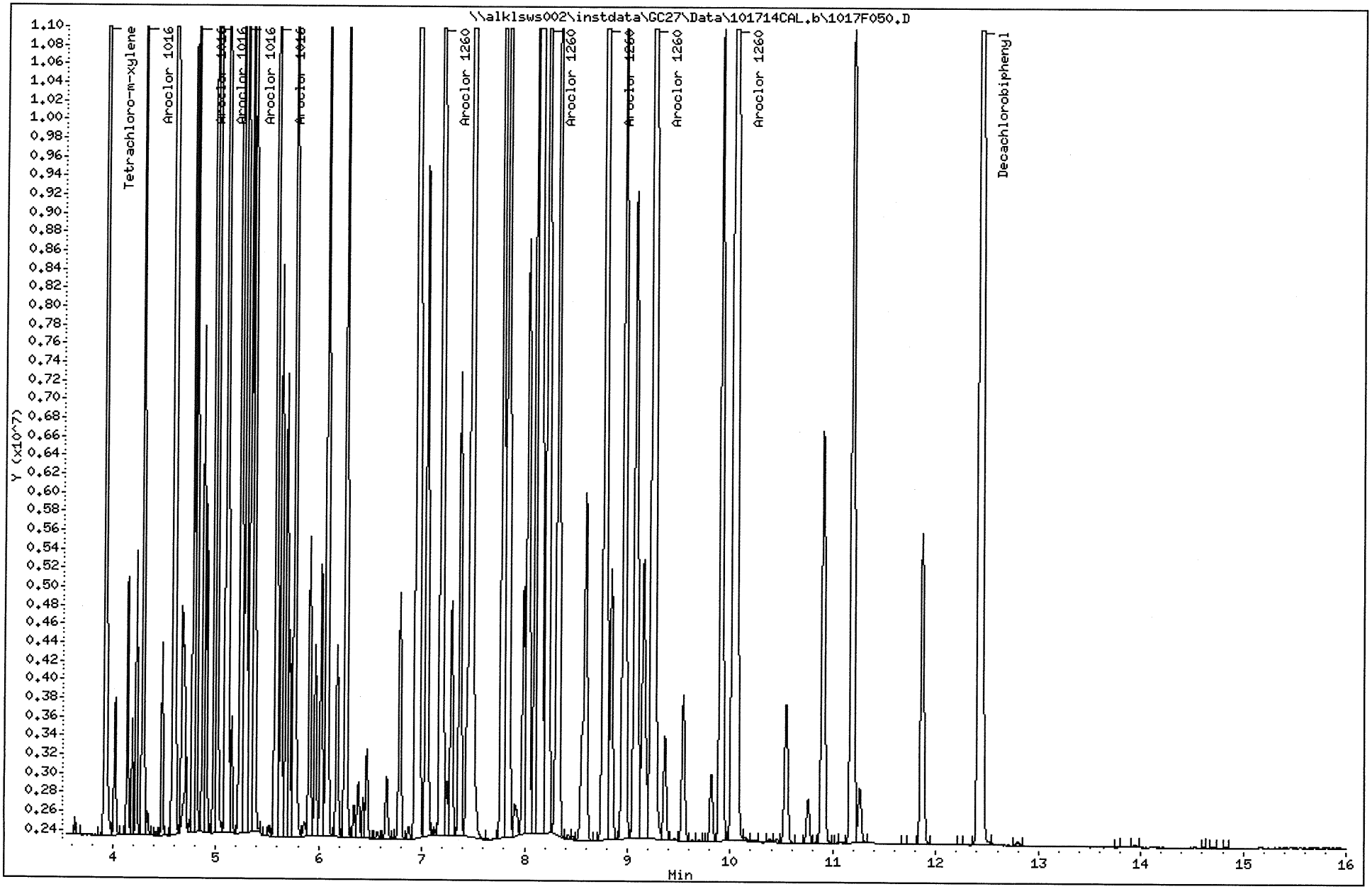
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



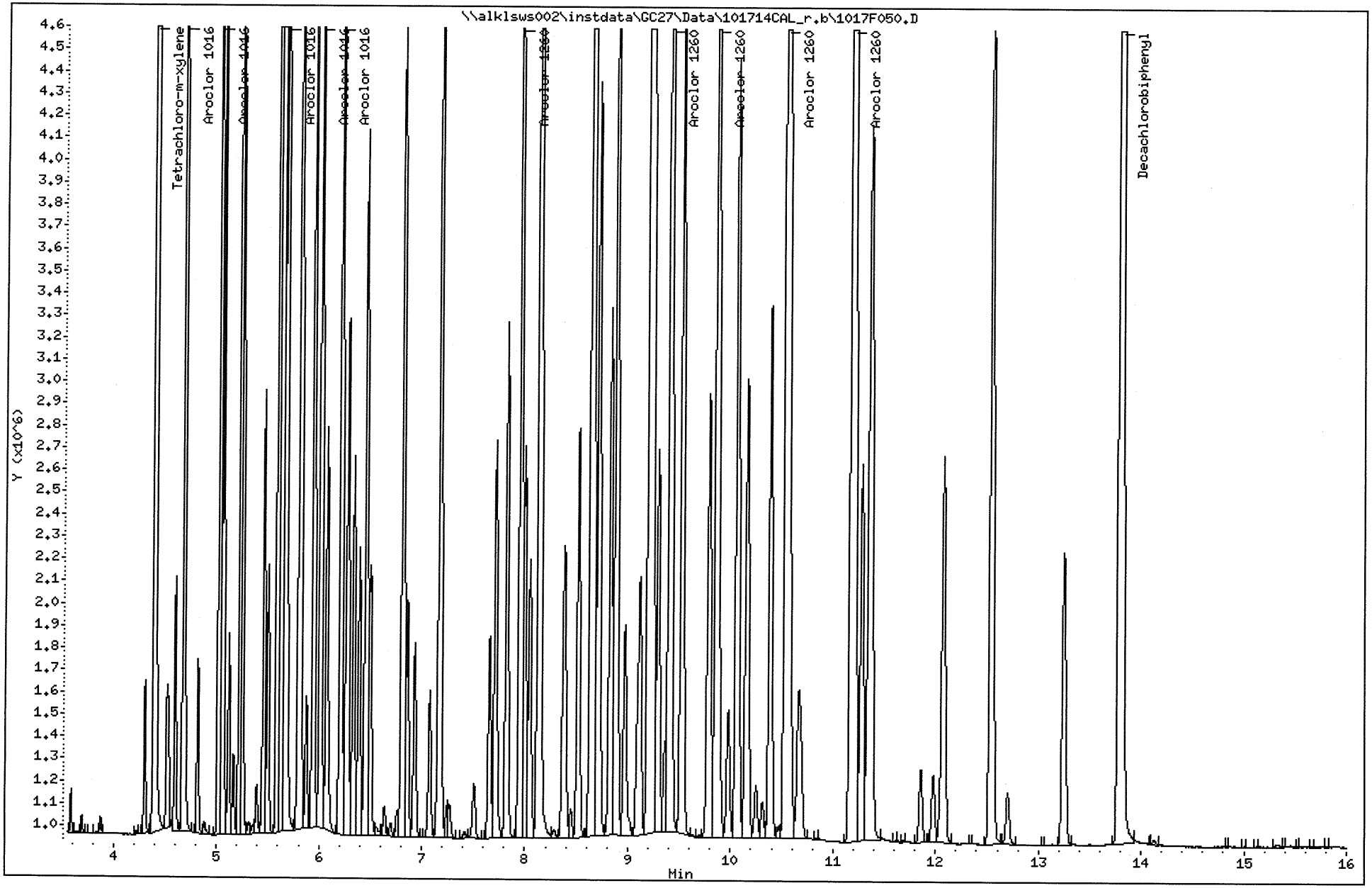
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

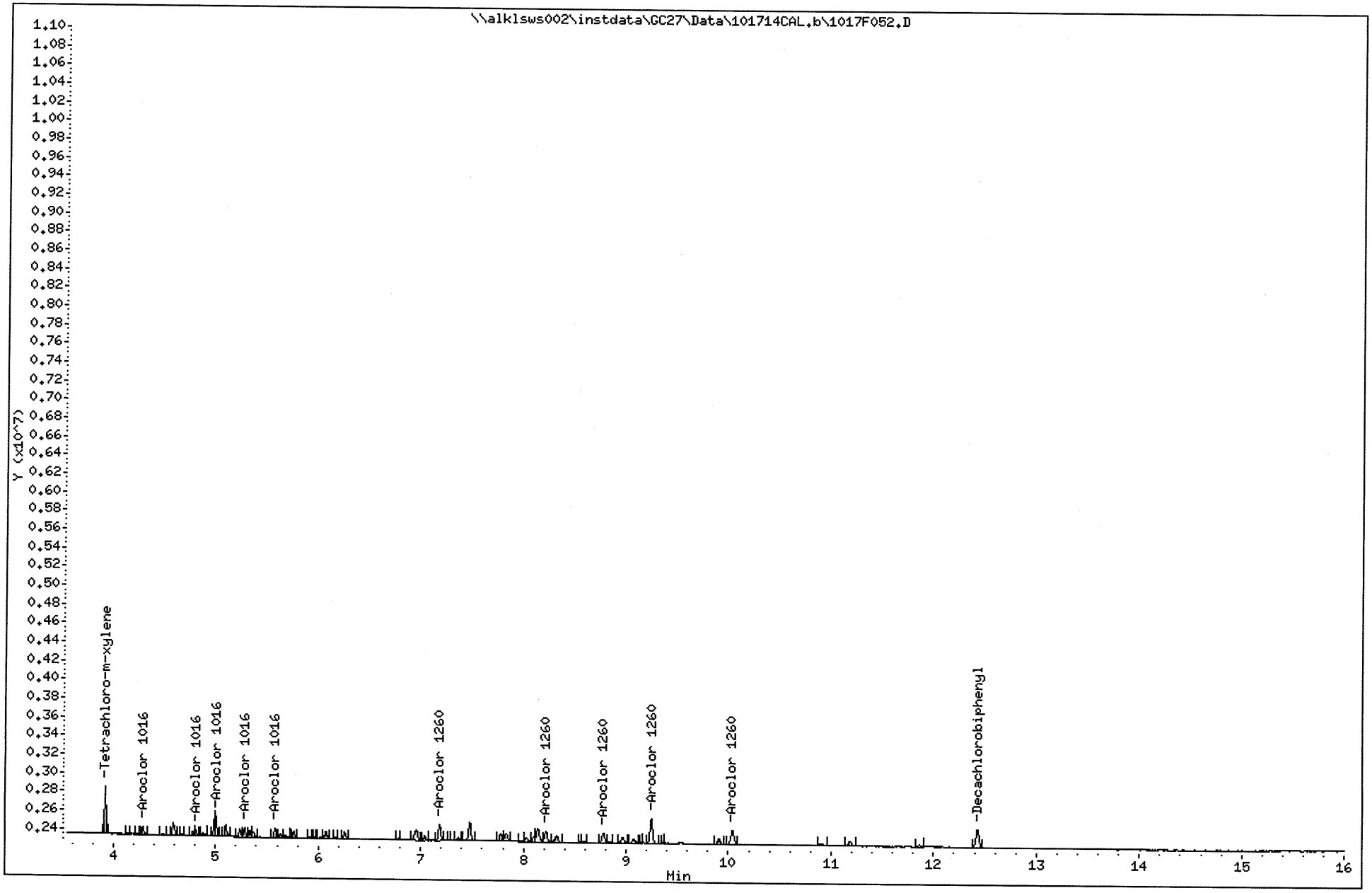
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



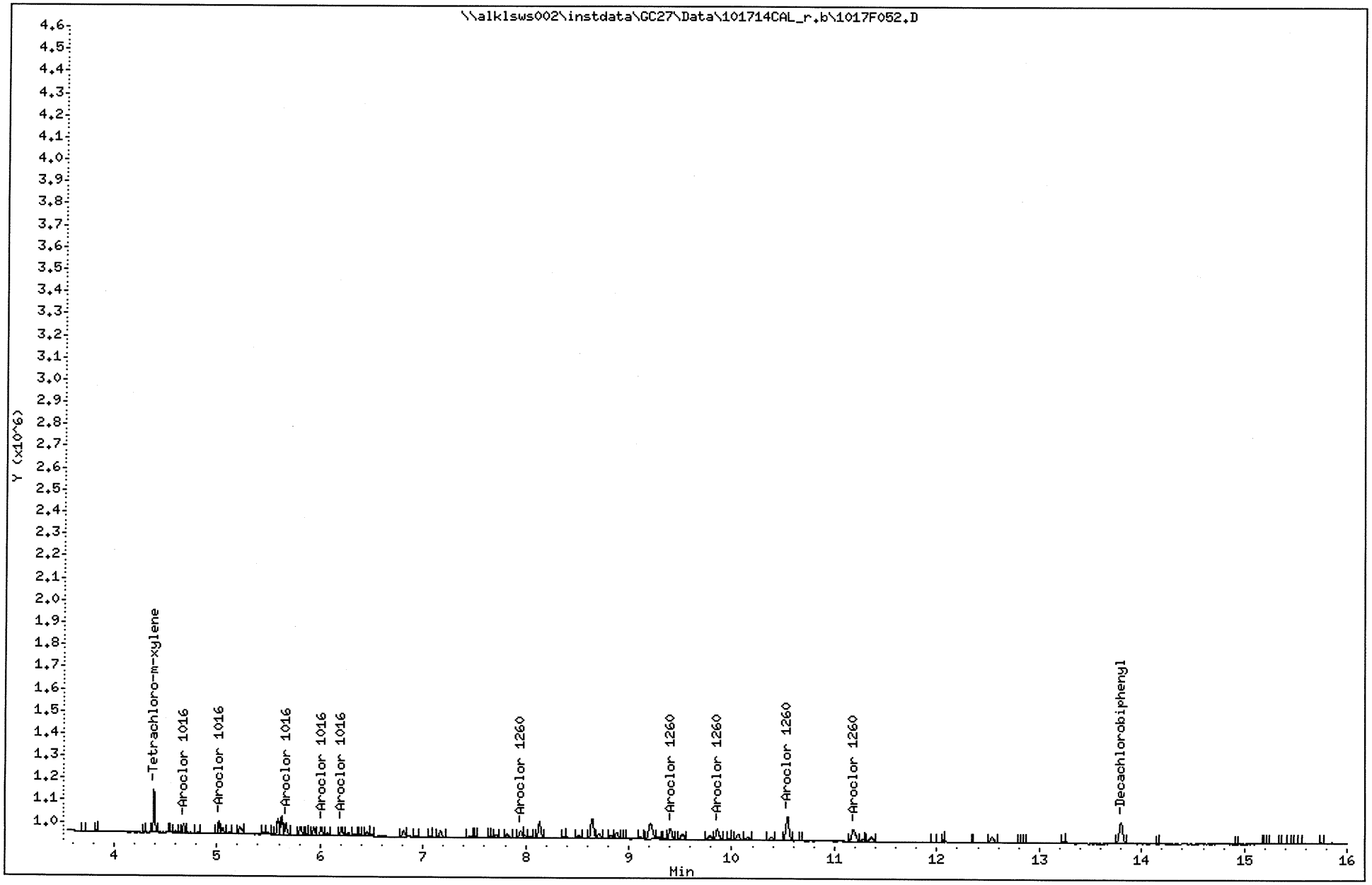
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

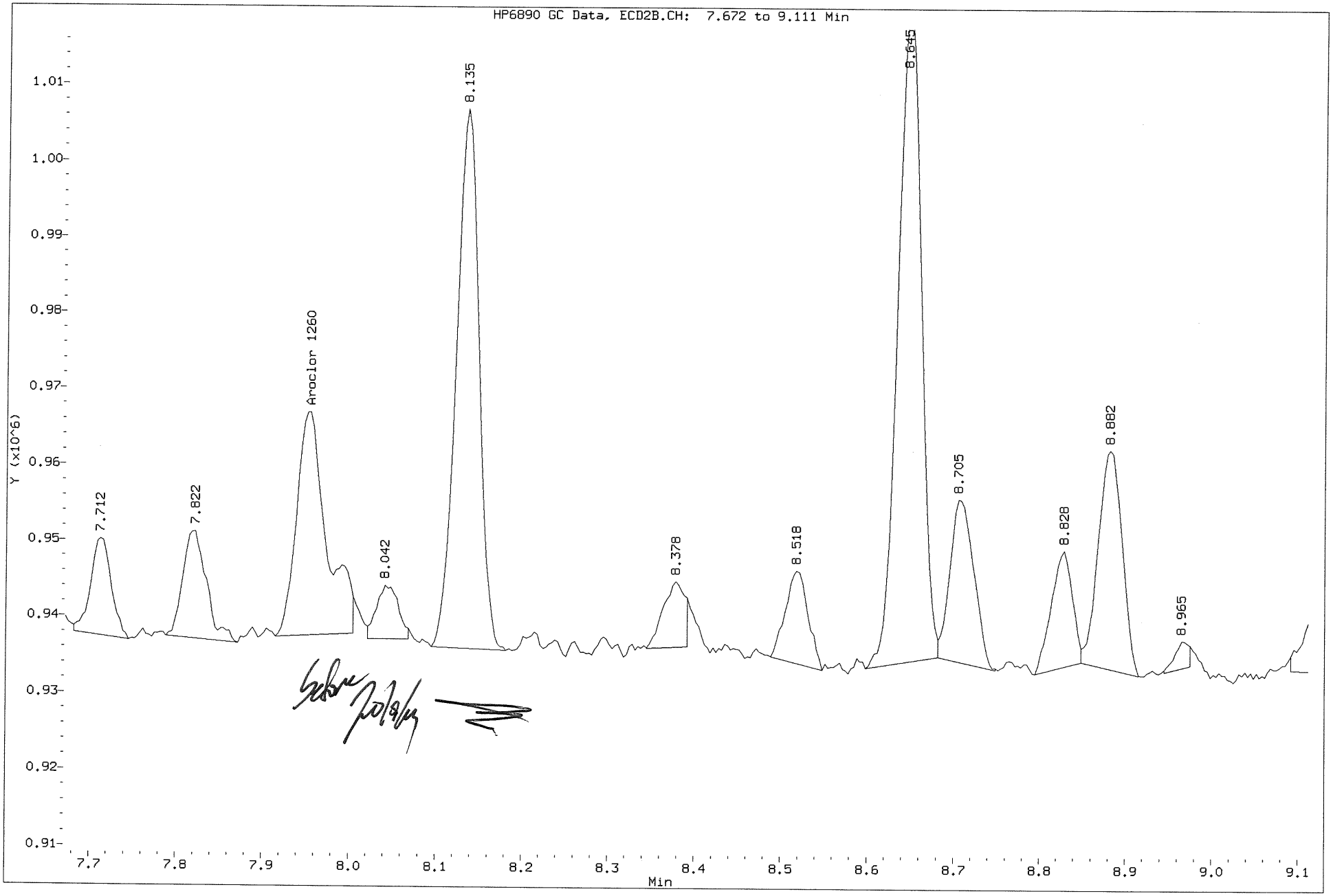
Operator: JHSmith

Column phase: DB-XLB

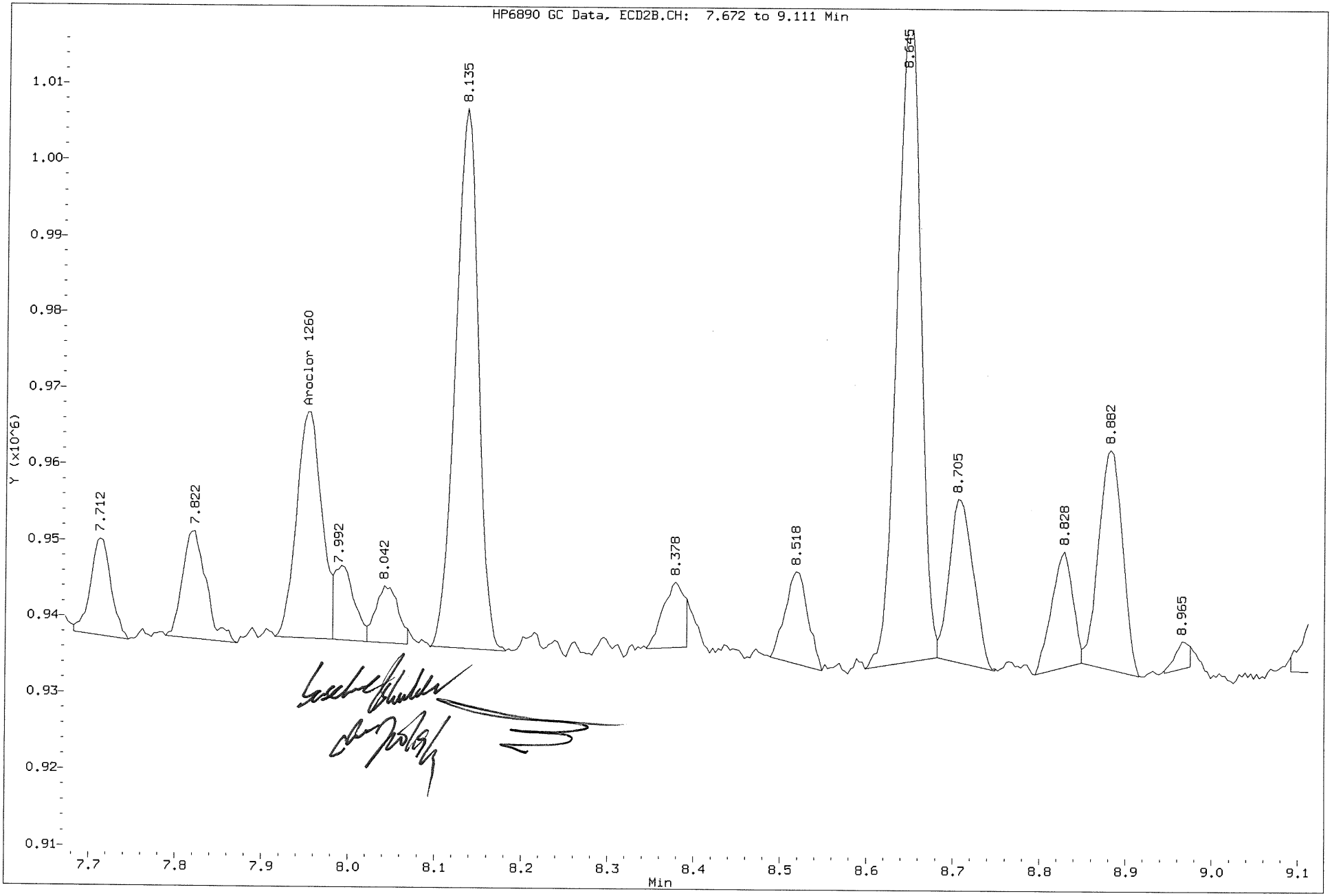
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

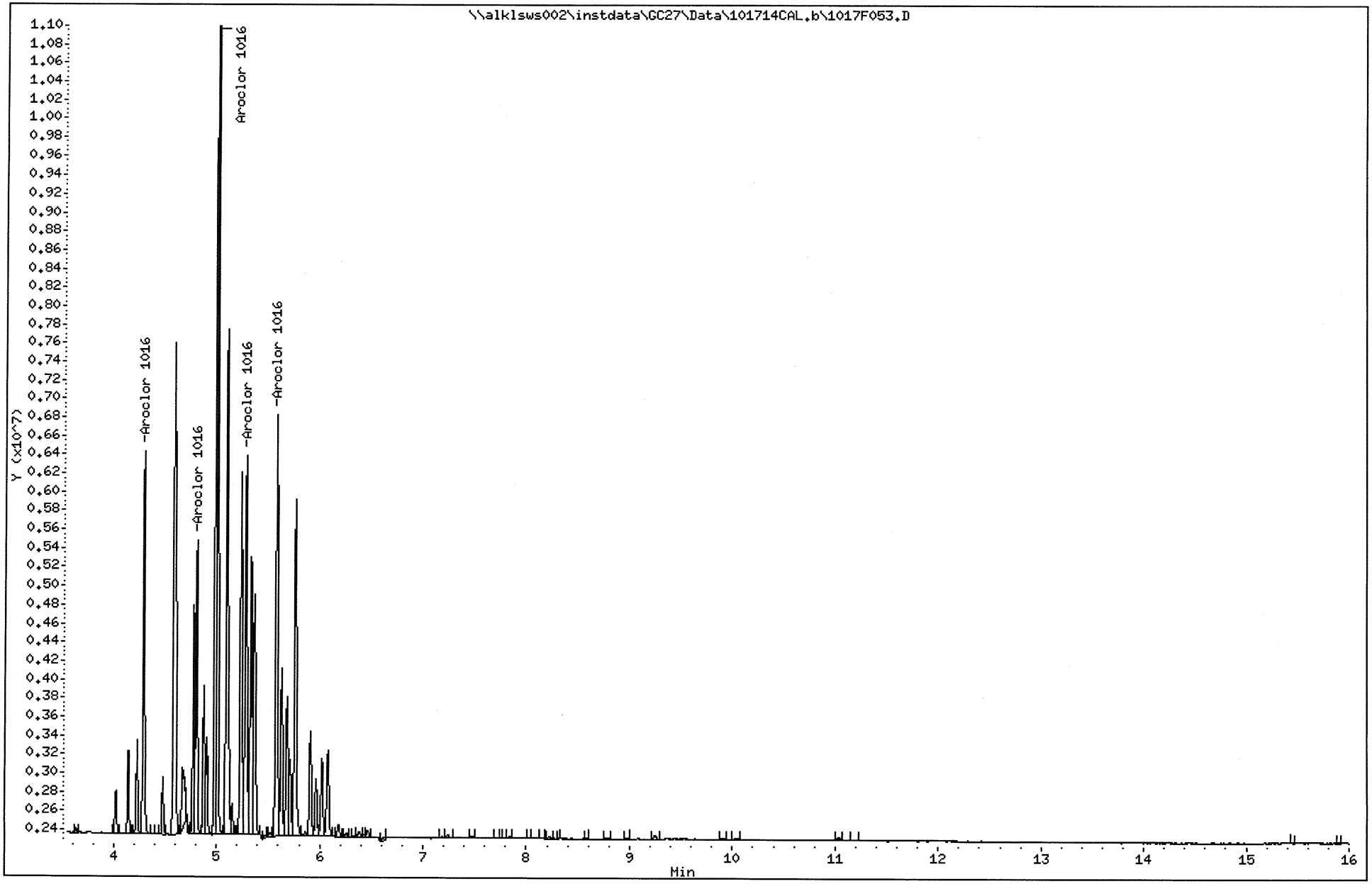
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



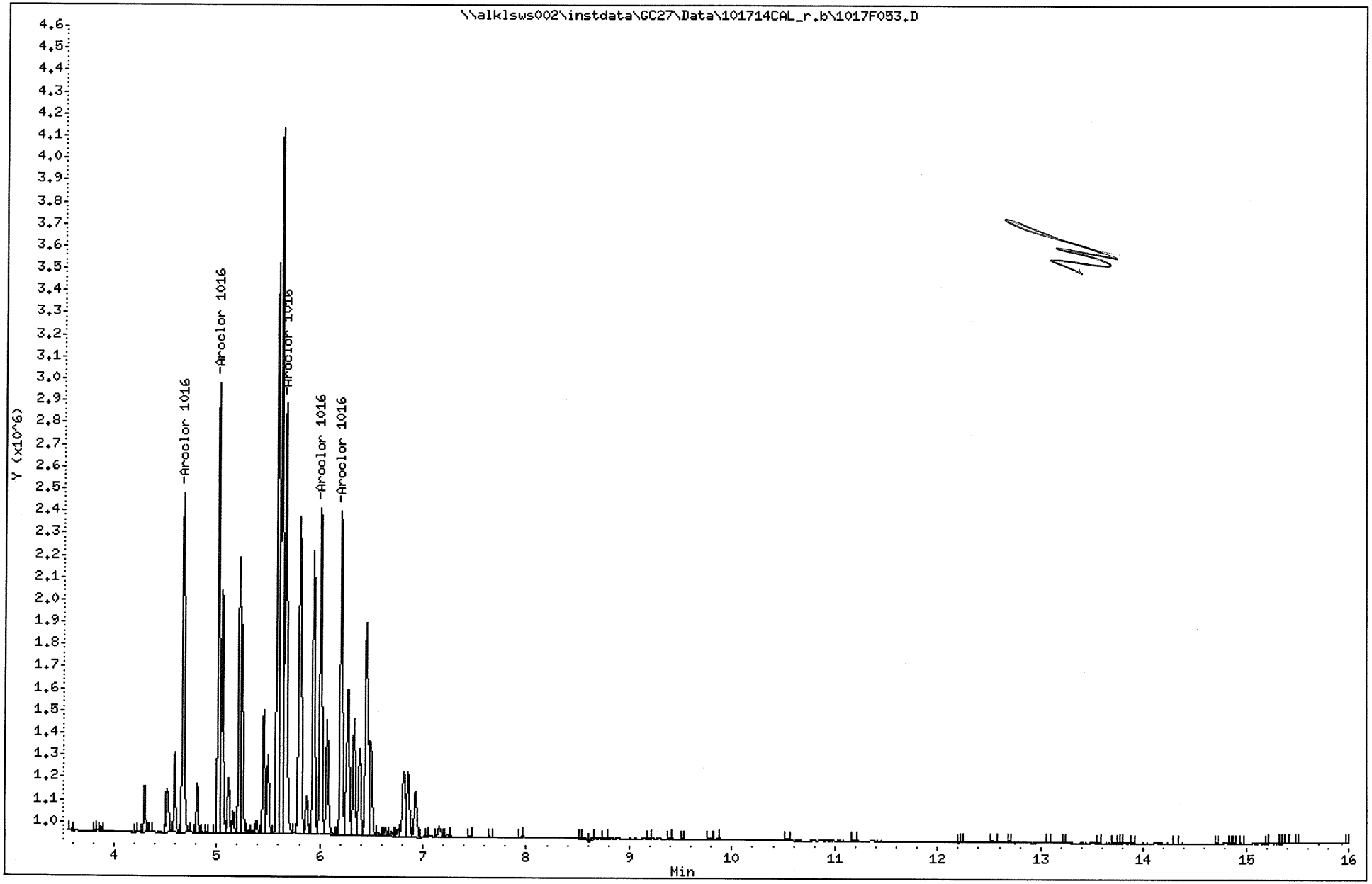
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

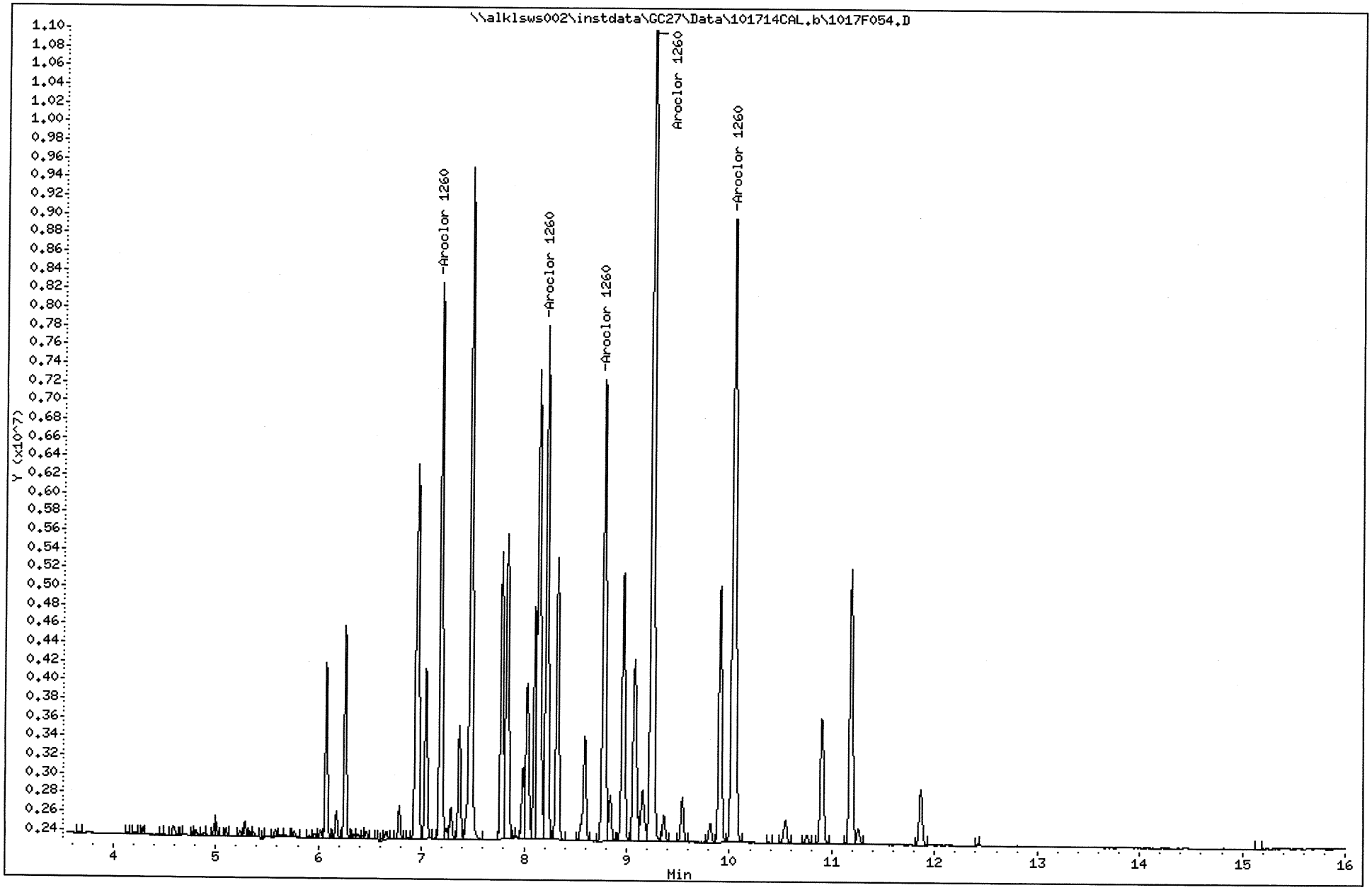
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



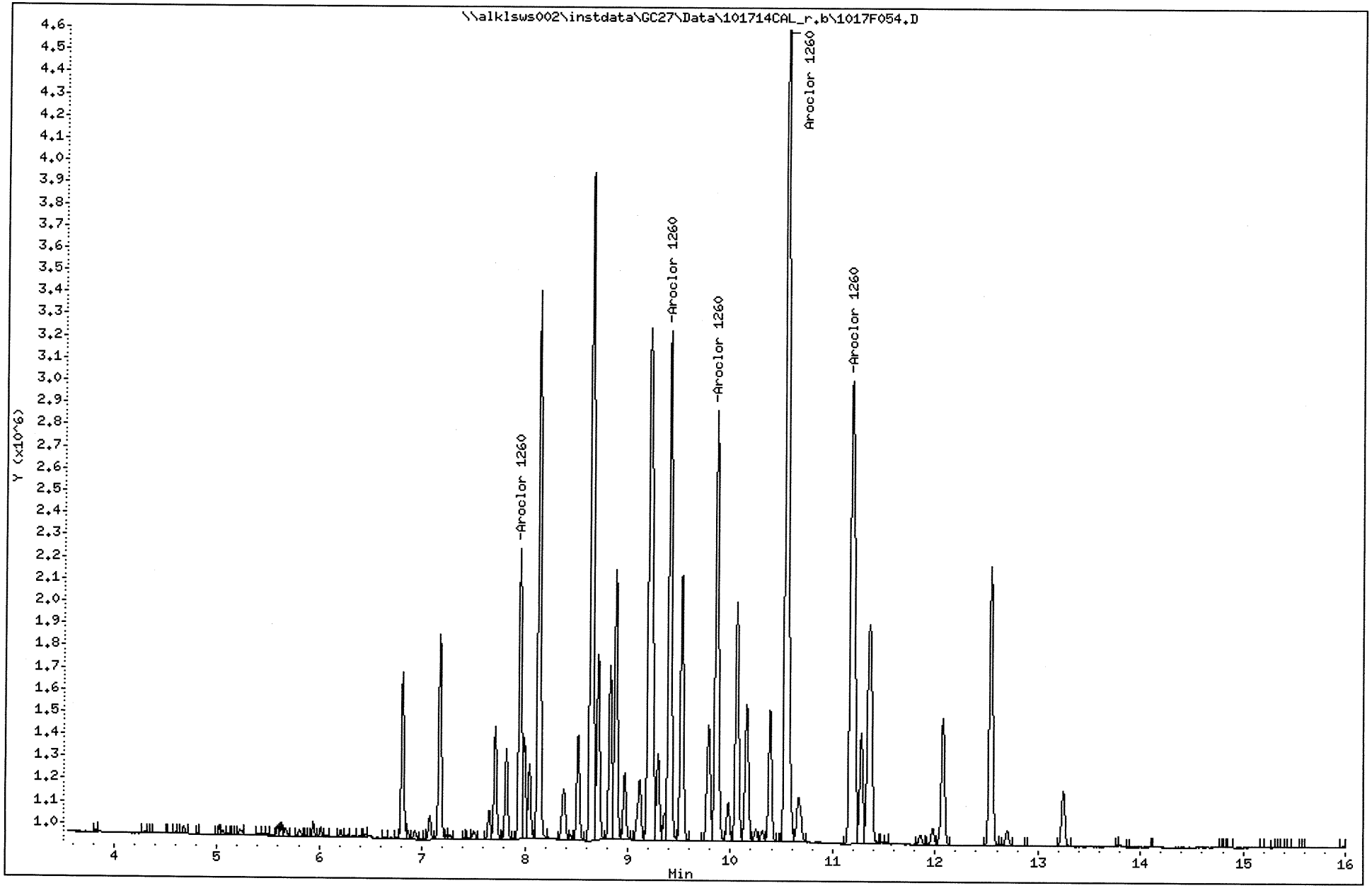
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Preparation Information

Group ID:	KWG1508618	**Prep Method:**	EPA 3541	**Prep Date:**	09/09/15 11:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509364-001	UBPE-1	8082A PCB LL	SOIL	40.148g	4ml	
K1509528-001	HR006	8082A PCB LL	SOIL	30.0520g	4ml	
K1509528-002	HR007	8082A PCB LL	SOIL	30.0767g	4ml	
K1509528-003	HR008	8082A PCB LL	SOIL	30.0844g	4ml	
K1509528-004	HR009	8082A PCB LL	SOIL	30.0026g	4ml	
K1509528-005	HR010	8082A PCB LL	SOIL	30.0739g	4ml	
K1509528-006	HR011	8082A PCB LL	SOIL	30.0244g	4ml	
K1509528-007	HR012	8082A PCB LL	SOIL	30.0776g	4ml	
K1509667-001	NAPE - 3	8082A PCB LL	SOIL	40.080g	4ml	
K1509667-002	NAPE - 2	8082A PCB LL	SOIL	40.053g	4ml	
K1509732-001	NAPE-1	8082A PCB LL	SOIL	40.324g	4ml	
KWG1508618-1	Matrix Spike	8082A PCB LL	SOIL	30.0686g	4ml	
KWG1508618-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	30.1926g	4ml	
KWG1508618-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508618-4	Method Blank	8082A PCB LL	SOIL	40.324g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508618-1	K1509528-006	
KWG1508618-2	K1509528-006	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509364-001	1465227					LMuresan
K1509528-001	1465228					LMuresan
K1509528-002	1465229					LMuresan
K1509528-003	1465230					LMuresan
K1509528-004	1465231					LMuresan
K1509528-005	1465232					LMuresan
K1509528-006	1465233					LMuresan
K1509528-007	1465223					LMuresan
K1509667-001	1465224					LMuresan
K1509667-002	1465225					LMuresan
K1509732-001	1465226					LMuresan
KWG1508618-1	1465234					LMuresan
KWG1508618-2	1465235					LMuresan
KWG1508618-3	1465236					LMuresan
KWG1508618-4	1465237					LMuresan

Comments:

					Training	
Started By:	LLee	Assisted By:			Yes	No
Completed By:	KMiller	Assisted By:			Yes	No
Reviewed By:	Elissa Bruno	Date:	9-15-15	Storage:		

Chain of Custody

Relinquished By:		Date:	9-11-15	Extracts Examined
Received By:	MR for SM	Date:	09/15/15	Yes No

Preparation Information

Group ID: KWG1508618 **Prep Method:** EPA 3541 **Prep Date:** 09/09/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. µL	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1509364-001	UBPE-1 S	-	-	8082A PCB LL	SOIL	40.148	NA	10	4	200	—
2	K1509528-001	HR006	-	-	8082A PCB LL	SOIL	30.0520		10	4		—
3	K1509528-002	HR007	-	-	8082A PCB LL	SOIL	30.0767		10	4		—
4	K1509528-003	HR008	-	-	8082A PCB LL	SOIL	30.0844		10	4		—
5	K1509528-004	HR009	-	-	8082A PCB LL	SOIL	30.0026		10	4		—
6	K1509528-005	HR010	-	-	8082A PCB LL	SOIL	30.0739		10	4		—
7	K1509528-006	HR011	-	-	8082A PCB LL	SOIL	30.0244		10	4		—
8	K1509528-007	HR012	-	-	8082A PCB LL	SOIL	30.0776		10	4		—
9	K1509667-001	NAPE - 3 S, R	01	✓	8082A PCB LL	SOIL	40.080		10	4		—
10	K1509667-002	NAPE - 2 S, R	01	✓	8082A PCB LL	SOIL	40.053		10	4		—
11	K1509732-001	NAPE-1 O	01	✓	8082A PCB LL	SOIL	40.324		10	4		—
12	KWG1508618-1	Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.0686		10	4		100
13	KWG1508618-2	Duplicate Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.1926		10	4		
14	KWG1508618-3	Lab Control Sample	-	-	8082A PCB LL	SOIL	20.000		10	4		
15	KWG1508618-4	Method Blank	-	-	8082A PCB LL	SOIL	40.324		10	4		—

Comments: S: sand, R: rocks, O: organics prep lot# 2444179

Surrogate ID: PCB6-7SE, 2ppm, XP 2/11/16, 200 µL, EPP 10D
Spike ID: PCB6-7SE, 40 ppm, XP 12/29/15, 100 µL, EPP2A
Witness: RM, 9/9/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1509364, 9528, 9667, 9752 **Work Group # Pest:** —
PCB: KWG1508618

Weighed (time/date/initial): 1030 9/9/15 LL Balance ID: *K-Bal-* 5 Calibration Verified ☑

Storage Location (if not extracted same day): NA

DCM Lot # DN111 Sulfate Lot # K25901 Matrix Lot # 061614 Glass Wool Lot # 5071401

Soxtherm Start (time/date/initial): 1100 9/9/15 LL

Soxtherm Stop (time/date/initial): 1510 9/9/15 LM

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 8:15 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 9:30 9-10-15 K Hexane Lot# 101242
S-Evap (time/date/initial): — S-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 9:30 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:30 9-11-15 K Acid Lot # 54344

Other Clean-up: 3660B 9-11-15 K ☑ all samples ☐ some samples: Lot EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Goofy B1-C5

Archived Extract Storage: Nulley

Additional Comments:

Bench Sheet Review Check List

- ☑ Hold times met (if no, reason: _____)
- ☑ Prep date, time, method, department, product code correct in stealth
- ☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☑ Weights/Volumes and units correct on raw and final bench sheets
- ☑ Sample IDs have been checked - bottle numbers appended if required
- ☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
- ☑ Extract storage recorded
- ☑ Additional prep sheet completely filled out (NA or line out blanks)
- ☑ All clean-ups have been noted on additional prep sheet
- ☑ Signed service request with Form V, if applicable, has been attached

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September 18, 2015

Analytical Report for Service Request No: K1509732

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Riverbank SCM C1144 640

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 03, 2015
For your reference, these analyses have been assigned our service request number **K1509732.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Received:**	09/03/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 09/03/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

CHAIN OF CUSTODY FORM

K1509732

Project: Kraz Riverbank SCM C1144640

Samplers: JSUND

Integral Contact: Glenn Esler
Phone 503 943 3615

Ship to: Lab Name ALS
Address 1317 S. 13th Ave
Kelso, WA 98626
Contact Greg Salata
Phone

integral consulting inc.

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors								Extra Container	Archive	Comments
NAPE-1	2007	9/2/15	0945	SL	X										

ANALYSES REQUESTED

9/2/15

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Shipped by: **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) 9/3/15 0700 **Date/Time:** _____ **Received by:** (signature) **Date/Time:** 9/3/15 1420

Relinquished by: (signature) **Date/Time:** _____ **Received by:** (signature) **Date/Time:** _____

Special Instructions:

Follow instructions provided in project QAPP. Call G. Esler w/ any questions.

PC Carey

Cooler Receipt and Preservation Form

Client / Project: Integral / Evraz Service Request *K15* 09732

Received: 9/3/15 Opened: 9/3/15 By: [illegible] Unloaded: 9/3/15 By: [illegible]

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 2 front + back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.4	-0.4	0.3	0.3	Ø	355			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page _____ ***of*** _____

Total Solids

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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/2/15
Sample Matrix:	Soil	**Date Received:**	09/3/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
NAPE-1	K1509732-001	**77.8**	-	-	1	09/08/15 18:33	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/02/15
Sample Matrix:	Soil	**Date Received:**	09/03/15
		Date Analyzed:	09/08/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	NAPE-1	**Units:**	Percent
Lab Code:	K1509732-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1509732-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	77.8	77.6	77.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
NAPE-1	K1509732-001	09/02/2015	09/03/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/02/2015
Sample Matrix:	Soil	**Date Received:**	09/03/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	NAPE-1	**Units:**	ug/Kg
Lab Code:	K1509732-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1221	ND	U	13	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1232	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1242	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1248	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1254	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1260	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1262	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1268	ND	U	6.4	2.1	1	09/09/15	09/12/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	81	43-148	09/12/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1508618-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1221	ND	U	10	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1232	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1242	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1248	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1254	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1260	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1262	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1268	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	43-148	09/12/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
Batch QC	K1509528-006	83
NAPE-1	K1509732-001	81
Method Blank	KWG1508618-4	93
Batch QCMS	KWG1508618-1	98
Batch QCDMS	KWG1508618-2	90
Lab Control Sample	KWG1508618-3	88

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/11/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1509528-006	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

		Batch QCMS KWG1508618-1 Matrix Spike			Batch QCDMS KWG1508618-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	106	134	79	103	134	77	23-145	2	40
Aroclor 1260	39	153	134	85	145	134	79	24-148	6	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1508618

	Lab Control Sample KWG1508618-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	130	200	65	42-122
Aroclor 1260	171	200	85	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	01:09

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-4	**File ID:**	J:\GC27\DATA\091115.B\0911F022.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
NAPE-1	K1509732-001	J:\GC27\DATA\091115.B\0911F020.D	09/12/15	00:23
Lab Control Sample	KWG1508618-3	J:\GC27\DATA\091115.B\0911F021.D	09/12/15	00:46

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509732
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	00:46

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-3	**File ID:**	J:\GC27\DATA\091115.B\0911F021.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
NAPE-1	K1509732-001	J:\GC27\DATA\091115.B\0911F020.D	09/12/15	00:23
Method Blank	KWG1508618-4	J:\GC27\DATA\091115.B\0911F022.D	09/12/15	01:09

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	164000	4	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3510	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8810	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	4960	4250	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4430	-14	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	440	9850	8680	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7790	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8010	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86800	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	1840	1820	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	2430	2400	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2670	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	470	2200	2050	-6	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	2000	-7	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	490	2210	2180	-1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3970	5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	8630	9030	5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5940	6	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	58	158000	183000	16	NA	± 20	AverageRF
Aroclor 1016 {1}	500	550	3590	3970	11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	530	3000	3180	6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	510	9890	10000	1	NA	± 100	AverageRF
Aroclor 1016 {4}	500	500	4960	4980	0	NA	± 100	AverageRF
Aroclor 1016 {5}	500	490	5180	5090	-2	NA	± 100	AverageRF
Aroclor 1016	500	520	NA	NA	NA	3	± 20	NA
Aroclor 1260 {1}	500	510	9850	9960	1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8430	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	8230	8480	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19400	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86900	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2190	-10	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2510	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1890	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1840	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	510	2210	2260	2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	540	3780	4080	8	NA	± 100	AverageRF
Aroclor 1260 {3}	500	680	3610	4920	36	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5970	7	NA	± 100	AverageRF
Aroclor 1260	500	560	NA	NA	NA	12	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	158000	170000	8	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3740	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2930	-2	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8620	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4470	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4680	-10	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8080	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8240	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	18800	19200	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14900	5	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509732
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	87600	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	1840	1800	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	2430	2420	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	3000	2710	-10	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	2200	2020	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	1970	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	490	2210	2140	-3	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3920	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5890	5	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509732
Project: Evraz Riverbank SCM C1144 640

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508799
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0911F003.D	Continuing Calibration Verification	KWG1508799-1	9/11/2015	17:47		9/11/2015	17:47
0911F004.D	Instrument Blank	KWG1508799-2	9/11/2015	18:10		9/11/2015	18:10
0911F005.D	ZZZZZZ	ZZZZZZ	9/11/2015	18:34		9/11/2015	18:34
0911F006.D	ZZZZZZ	ZZZZZZ	9/11/2015	18:57		9/11/2015	18:57
0911F007.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:21		9/11/2015	19:21
0911F008.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:44		9/11/2015	19:44
0911F009.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:07		9/11/2015	20:07
0911F010.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:31		9/11/2015	20:31
0911F011.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:54		9/11/2015	20:54
0911F012.D	Batch QC	K1509528-006	9/11/2015	21:17		9/11/2015	21:17
0911F013.D	Batch QCMS	KWG1508618-1	9/11/2015	21:40		9/11/2015	21:40
0911F014.D	Batch QCDMS	KWG1508618-2	9/11/2015	22:04		9/11/2015	22:04
0911F015.D	Continuing Calibration Verification	KWG1508799-3	9/11/2015	22:27		9/11/2015	22:27
0911F016.D	Instrument Blank	KWG1508799-4	9/11/2015	22:50		9/11/2015	22:50
0911F017.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:13		9/11/2015	23:13
0911F018.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:37		9/11/2015	23:37
0911F019.D	ZZZZZZ	ZZZZZZ	9/12/2015	00:00		9/12/2015	00:00
0911F020.D	NAPE-1	K1509732-001	9/12/2015	00:23		9/12/2015	00:23
0911F021.D	Lab Control Sample	KWG1508618-3	9/12/2015	00:46		9/12/2015	00:46
0911F022.D	Method Blank	KWG1508618-4	9/12/2015	01:09		9/12/2015	01:09
0911F023.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:33		9/12/2015	01:33
0911F024.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:56		9/12/2015	01:56
0911F025.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:19		9/12/2015	02:19
0911F026.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:42		9/12/2015	02:42
0911F027.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:06		9/12/2015	03:06
0911F028.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:29		9/12/2015	03:29
0911F029.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:53		9/12/2015	03:53
0911F030.D	Continuing Calibration Verification	KWG1508799-5	9/12/2015	04:16		9/12/2015	04:16
0911F031.D	Instrument Blank	KWG1508799-6	9/12/2015	04:39		9/12/2015	04:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640
Sample Matrix: Soil

Service Request: K1509732
Date Extracted: 09/09/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1508618
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
NAPE-1	K1509732-001	09/02/15	09/03/15	40.324g	4ml	77.8	
Method Blank	KWG1508618-4	NA	NA	40.324g	4ml	NA	
Batch QC	K1509528-006	NA	NA	30.0244g	4ml	99.1	
Batch QCMS	KWG1508618-1	NA	NA	30.0686g	4ml	99.1	
Batch QCDMS	KWG1508618-2	NA	NA	30.1926g	4ml	99.1	
Lab Control Sample	KWG1508618-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1509732, KQ1510009, K1509753, K1509762, K1509803, K1509818, K1509819, K1509827**	**Run #:**	**461281**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1509732-001	1.30	10.20	9.24	7.94	77.8	
	K1509732-001DUP	1.30	10.76	9.65	8.35	77.6	<1
	K1509753-011	1.30	12.17	10.71	9.41	77.3	
	K1509753-012	1.29	10.79	9.31	8.02	74.3	
	K1509762-001	1.30	11.78	10.05	8.75	74.3	
	K1509803-001	1.29	10.95	8.60	7.31	66.8	
	K1509803-002	1.30	10.86	10.85	9.55	87.9	
	K1509803-003	1.29	10.59	10.79	9.50	89.7	
	K1509818-001	1.29	11.34	11.82	10.5	92.9	
	K1509818-002	1.29	11.01	11.52	10.2	92.9	
	K1509818-003	1.29	10.31	10.88	9.59	93.0	
	K1509818-004	1.29	10.10	10.75	9.46	93.7	
	K1509818-004DUP	1.28	10.78	11.34	10.1	93.3	<1
	K1509818-005	1.29	10.70	11.29	10.0	93.5	
	K1509819-001	1.29	10.76	10.48	9.19	85.4	
	K1509827-001	1.30	19.77	4.87	3.57	18.1	
	K1509827-002	1.30	13.08	6.80	5.50	42.0	
	K1509827-003	1.28	13.01	4.81	3.53	27.1	
	K1509827-004	1.27	14.76	4.69	3.42	23.2	
	K1509827-005	1.28	9.49	4.31	3.03	31.9	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**K-OVEN-07**	**105**	**105**	**9/8/2015**	**18:33**	**9/9/2015**	**07:50**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-Balance-16**	**1.00, 100.00**	**1.00, 100.00**	**9/8/2015**	**18:06**	**9/8/2015**	**18:33**
Calibration2	**K-Balance-16**	**0.98 99.98**	**1.00 100.00**	**9/9/2015**	**08:11**	**9/9/2015**	**08:14**

Comments: DJM/BK Approved 9-9-15 L.J.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F020.D
Lab ID: K1509732-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/12/2015 00:23
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV ok

Primary Review: MR 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F020.D
Lab ID: K1509732-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/12/2015 00:23
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Printed: 09/15/2015 08:57:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F020.D			**Vial:**	16
Acqu Date:	09/12/2015 00:23	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509732-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/02/2015	**Receive Date:**	09/03/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509732
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465226	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 0.00	13.62 0.00	12799425	6450320	80.94	78.33			81 OK
				%Recovery =	81 OK	78 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F020.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F020.D			**Vial:**	16
Acqu Date:	09/12/2015 00:23	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509732-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.324 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	77.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F020.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F020.D
Inj Date : 12-SEP-2015 00:23
Sample Info: K1509732-001
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.337	15819438	5929430	89.4	75.4		100.00
Decachlorobiphenyl	12.261	13.621	12799425	6450320	80.9	78.3		100.00

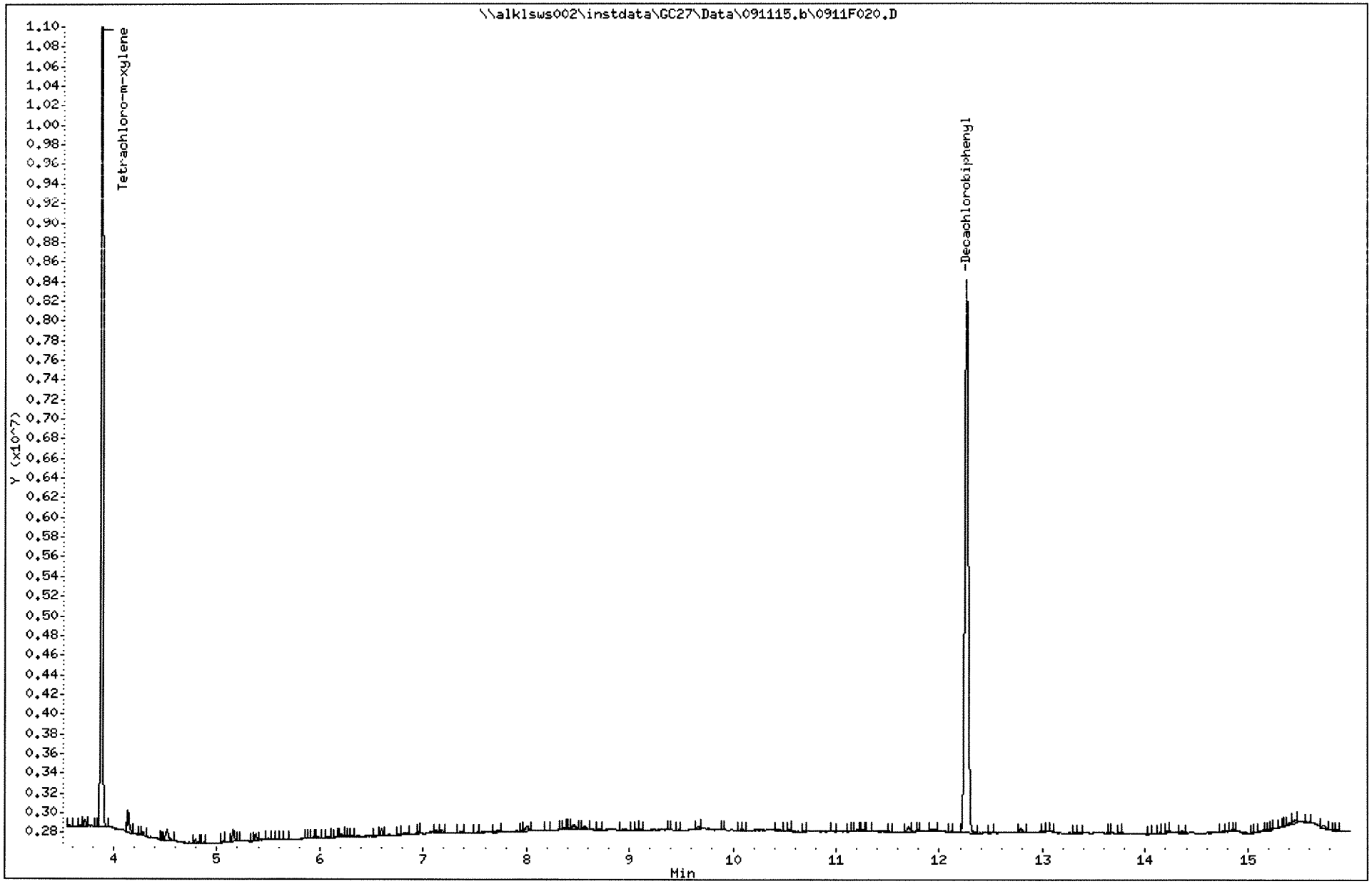
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F020.D
Date : 12-SEP-2015 00:23
Client ID:
Sample Info: K1509732-001

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



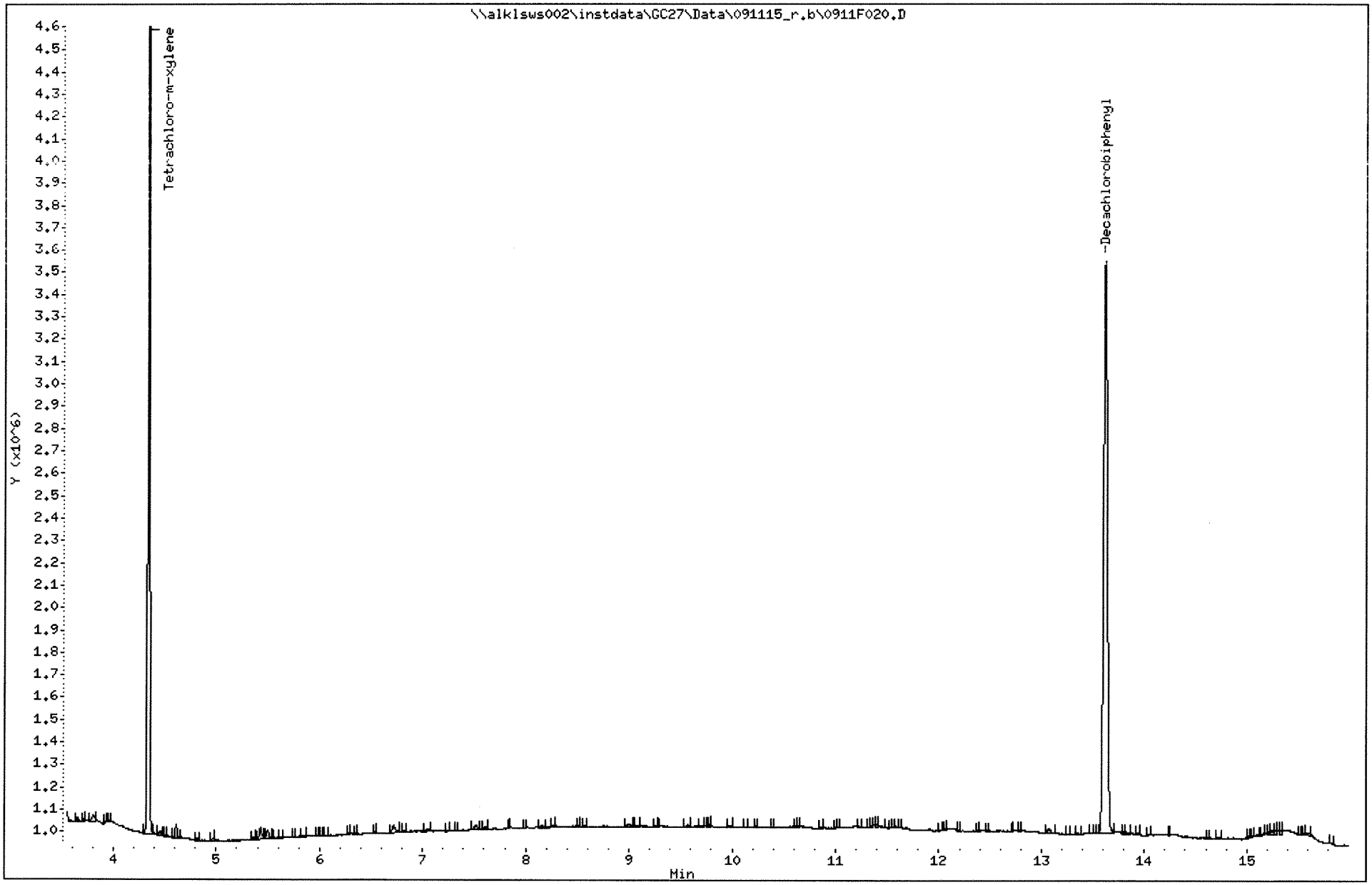
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F020.D
Date : 12-SEP-2015 00:23
Client ID:
Sample Info: K1509732-001

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	IOV ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	ok

Primary Review: mr 09/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	JQ d
	Aroclor 1260	22.7	NA	20	JQ Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465237	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	16808308	6398347	94.95CCV	81.35			81	OK
					%Recovery =		95 OK	81 OK	Limits =	44-130		
Decachlorobiphenyl	12.26	-0.01	13.62	0.00	14638591	7323472	92.57	88.93			93	OK
					%Recovery =		93 OK	89 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.324 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Inj Date : 12-SEP-2015 01:09
Sample Info: KWG1508618-MB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16808308	6398347	94.9	81.3		100.00
Decachlorobiphenyl	12.258	13.621	14638591	7323472	92.6	88.9		100.00

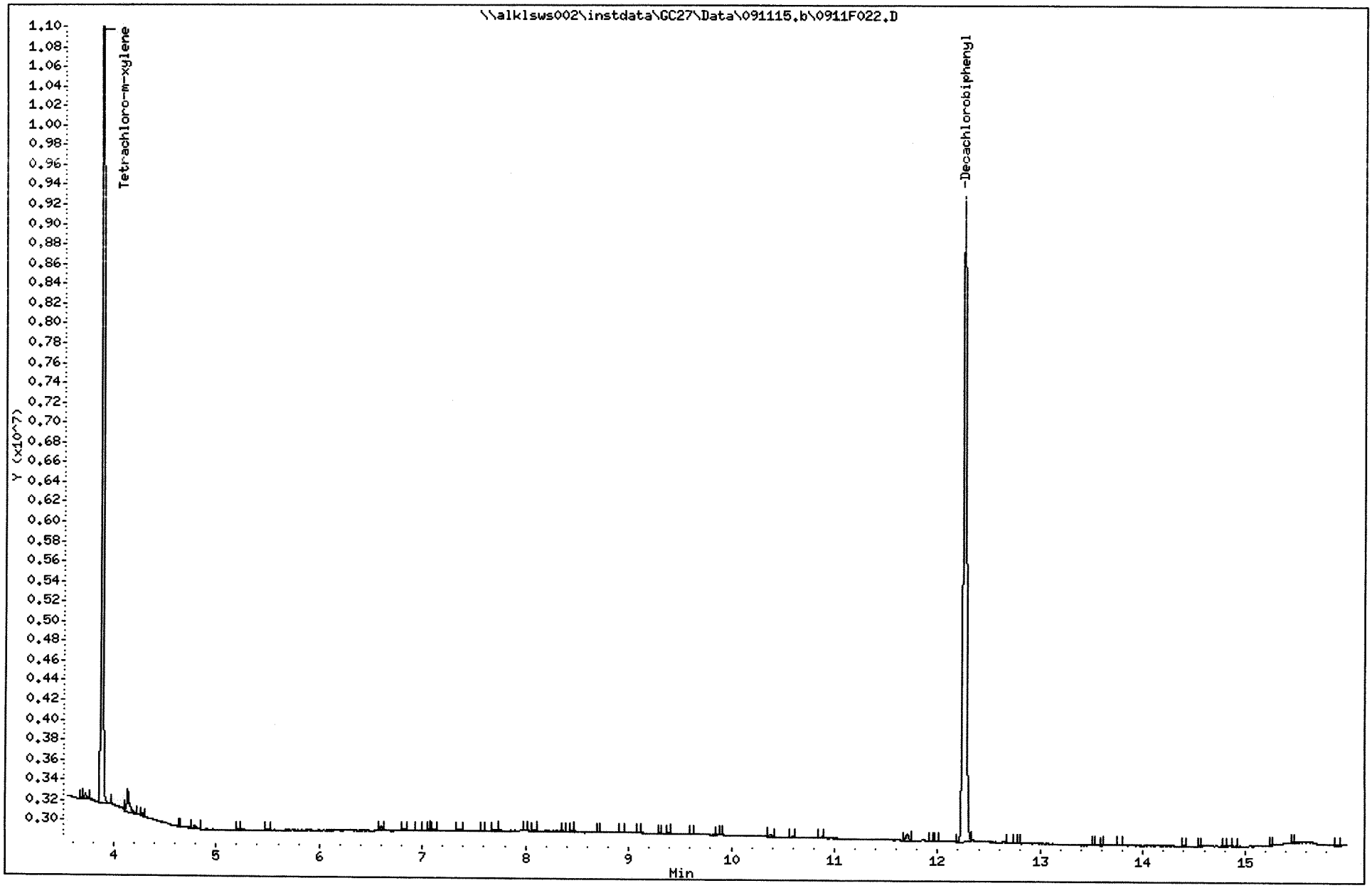
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-MB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



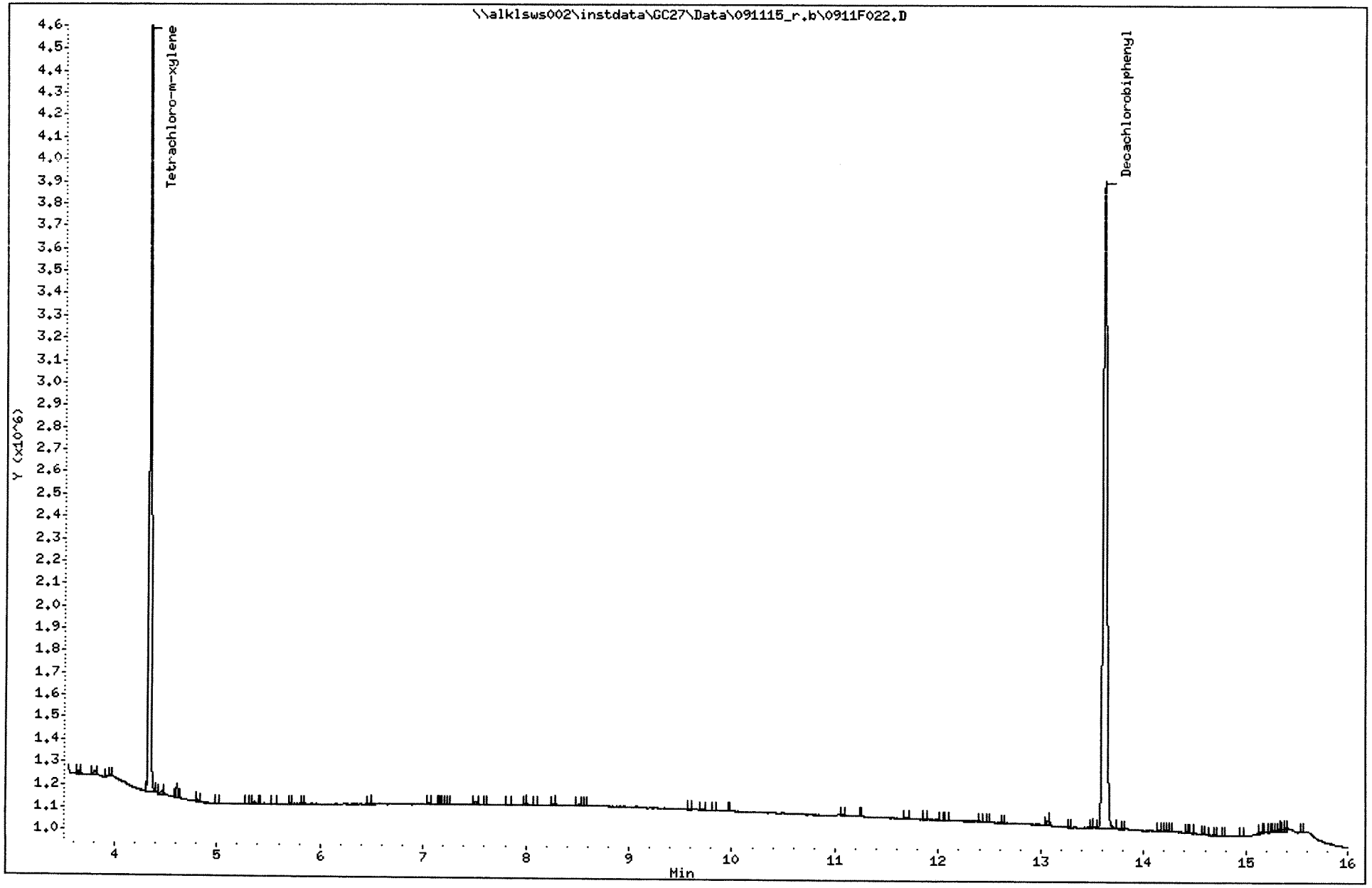
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-MB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV ok

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/25/2015	**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509528
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465233	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ17278
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26	+0.00	13.63	+0.01	13056662	6393434	82.57	77.64			83 OK
						%Recovery =	83 OK	78 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {1}	6.25	6.71	1714211m	835526m	440.62	227.37	59	31	
Aroclor 1254			0	0	400.85	424.14	54	57	**54**
Aroclor 1254 {2}	6.68	7.05	2107145m	2511814m	290.34	433.58	39	58	
Aroclor 1254 {3}	6.84	7.16	6123071m	728958m	418.40	376.31	56	51	
Aroclor 1254 {4}	7.18	8.01	3627229m	1403548m	379.20	619.53	51	83	
Aroclor 1254 {5}	7.78	8.77	3011936m	1455759m	475.69	463.93	64	62	
Aroclor 1260 {1}	7.08 0.00	7.83 +0.00	4138346m	667508m	420.11	302.60	56	41	
Aroclor 1260			0	0	299.69	286.46	40	39	**39**
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	1944594m	866979m	239.66	229.37	32	31	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	1920020m	1118923m	233.27	310.05	31	42	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	5061893m	2281621m	269.27	264.25	36	36	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	4768801m	1821113m	336.15	326.05	45	44	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0244 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Inj Date : 11-SEP-2015 21:17
Sample Info: K1509528-006
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	14973224	5563928	84.6	70.7		100.00
Aroclor 1254	6.250	6.710	1714211	835526	441	227	80.00- 120.00	100.00(MH)
	6.683	7.053	2107145	2511814	290	434	1017.66-1526.49	122.92(MH)
	6.837	7.163	6123071	728958	418	376	9646.23-14469.35	357.19(MH)
	7.177	8.013	3627229	1403548	379	620	1126.72-1690.08	211.60(MH)
	7.783	8.767	3011936	1455759	476	464	281.12- 421.67	175.70(MH)
		Average of Peak Amounts =			401	424		
Aroclor 1260	7.077	7.833	4138346	667508	420	303	80.00- 120.00	100.00(MH)
	8.097	9.270	1944594	866979	240	229	71.27- 106.90	46.99(MH)
	8.647	9.723	1920020	1118923	233	310	72.68- 109.02	46.40(MH)
	9.110	10.397	5061893	2281621	269	264	169.11- 253.66	122.32(MH)
	9.897	11.033	4768801	1821113	336	326	131.16- 196.75	115.23(MH)
		Average of Peak Amounts =			300	286		
Decachlorobiphenyl	12.263	13.627	13056662	6393434	82.6	77.6		100.00
Aroclors, Total	0.000	0.000	6883449	2738349	701	711		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

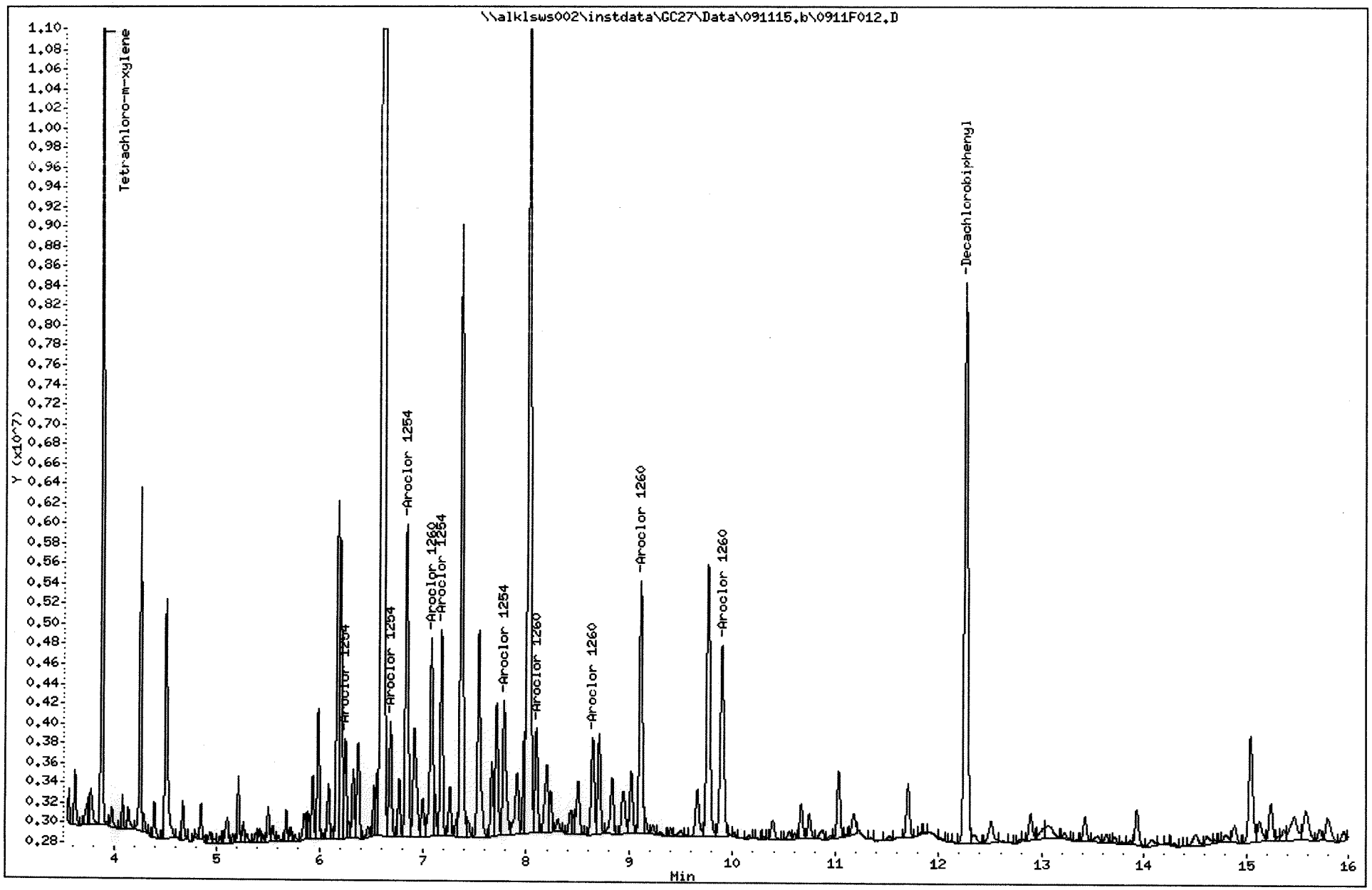
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006

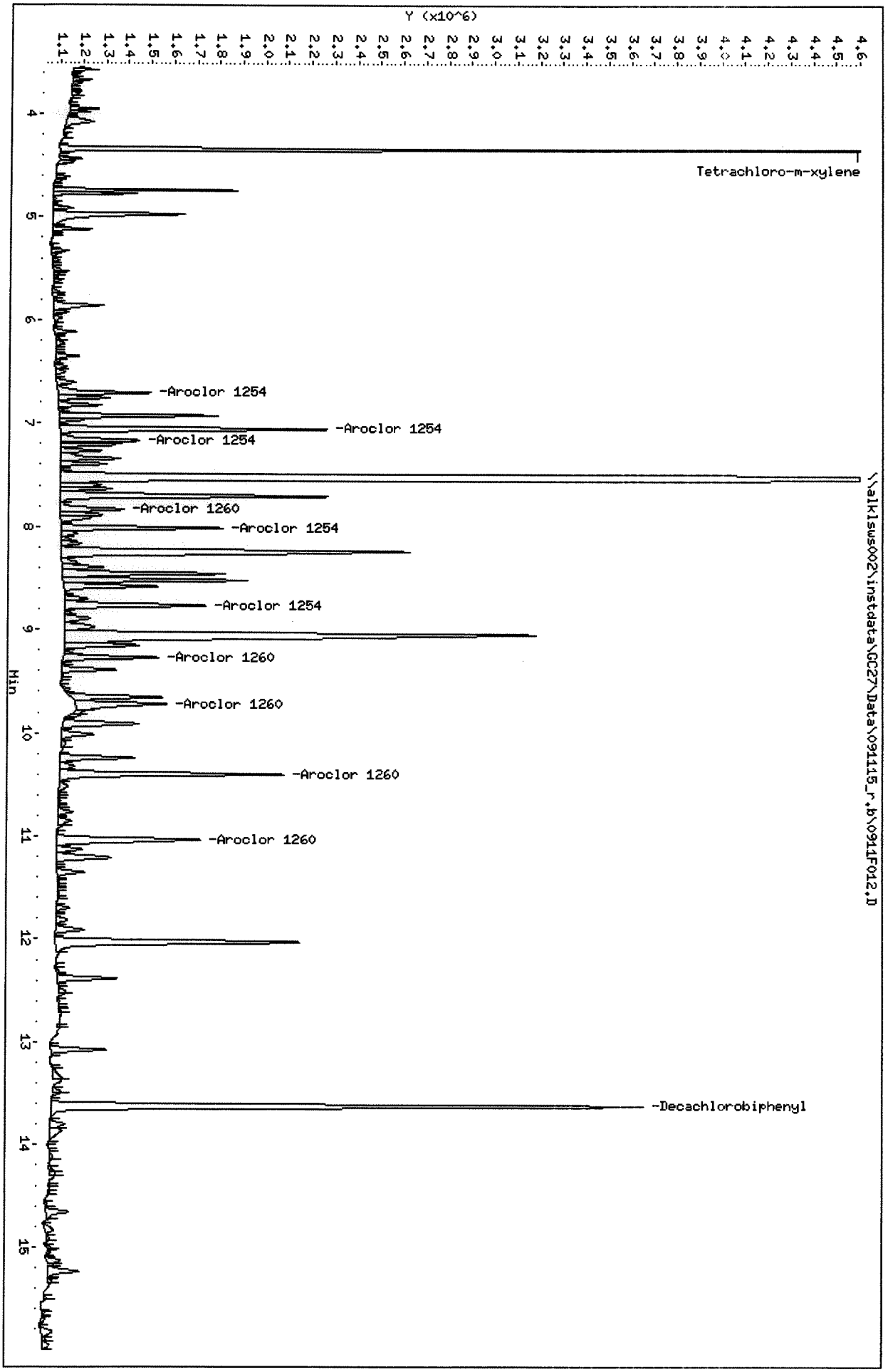
Instrument: GC27.i

Operator: SMURRAY

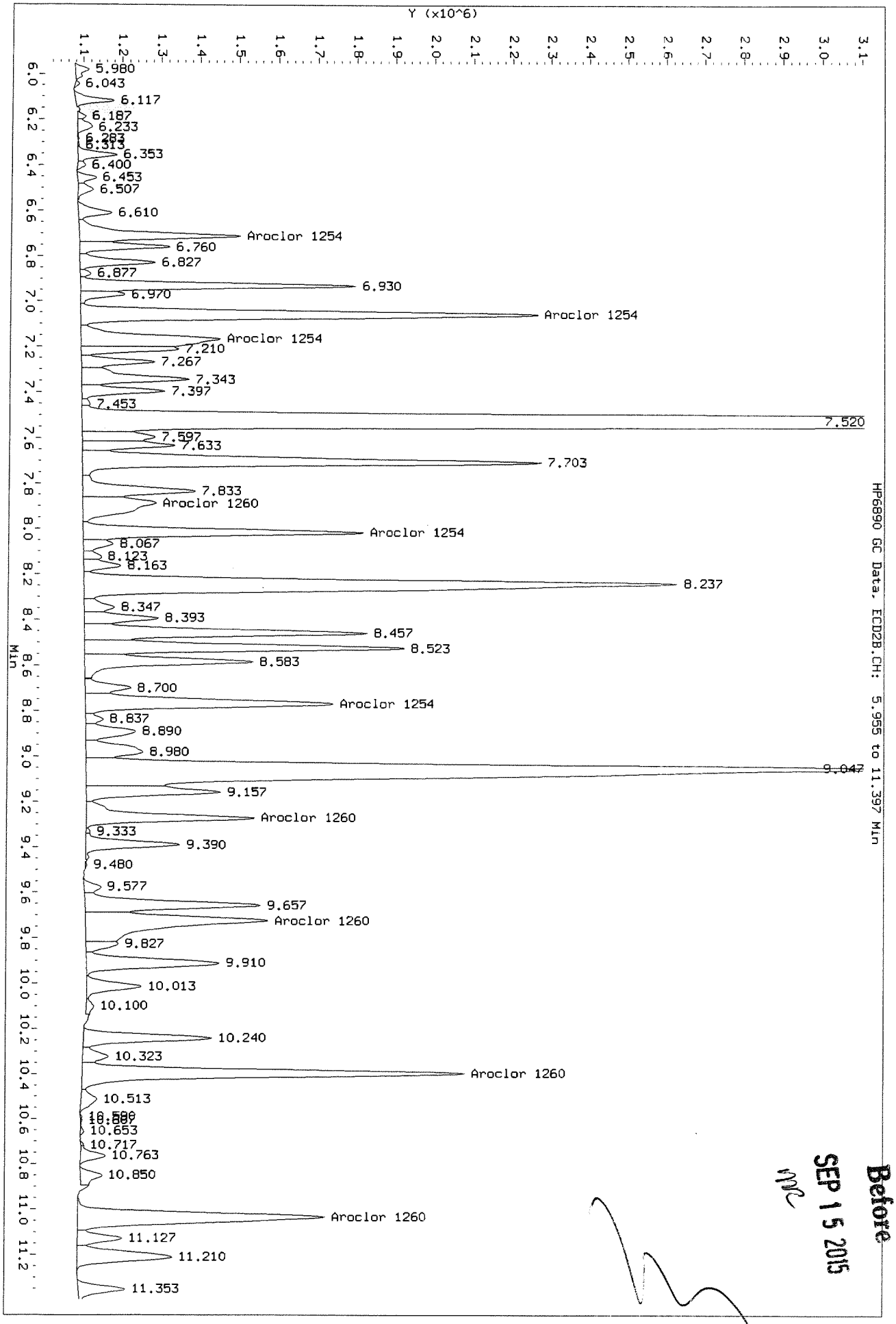
Column phase: DB-35MS

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006
Column phase: DB-XLB
Instrument: GC27.i
Operator: SMURRAY
Column diameter: 0.32
Y (x10^6)
Min
Tetrachloro-m-xylene
-Aroclor 1254
-Aroclor 1254
-Aroclor 1254
-Aroclor 1260
-Aroclor 1254
-Aroclor 1254
-Aroclor 1260
-Aroclor 1260
-Aroclor 1260
-Aroclor 1260
-Decachlorobiphenyl
\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D

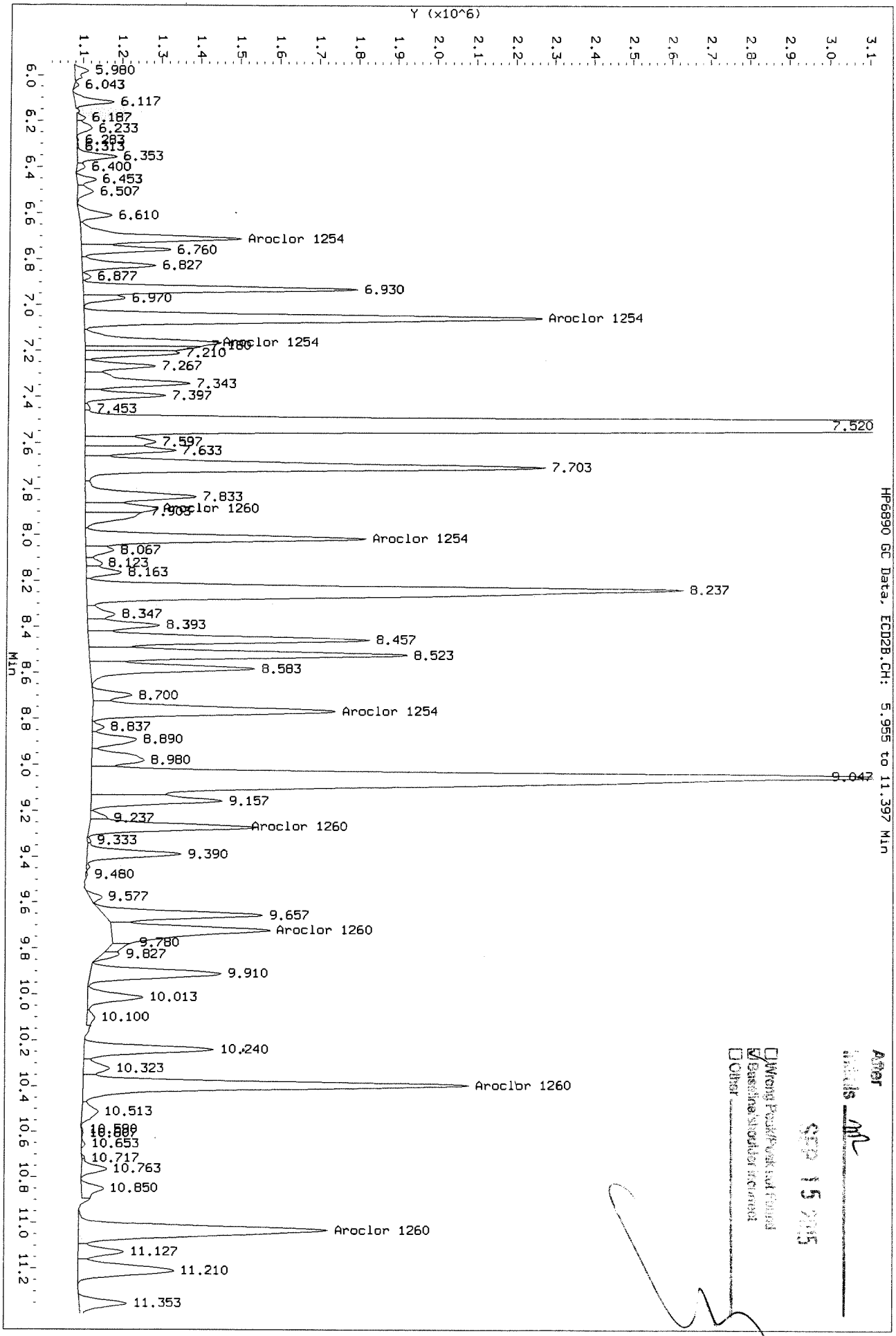
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD2B.CH: 5.955 to 11.397 Min

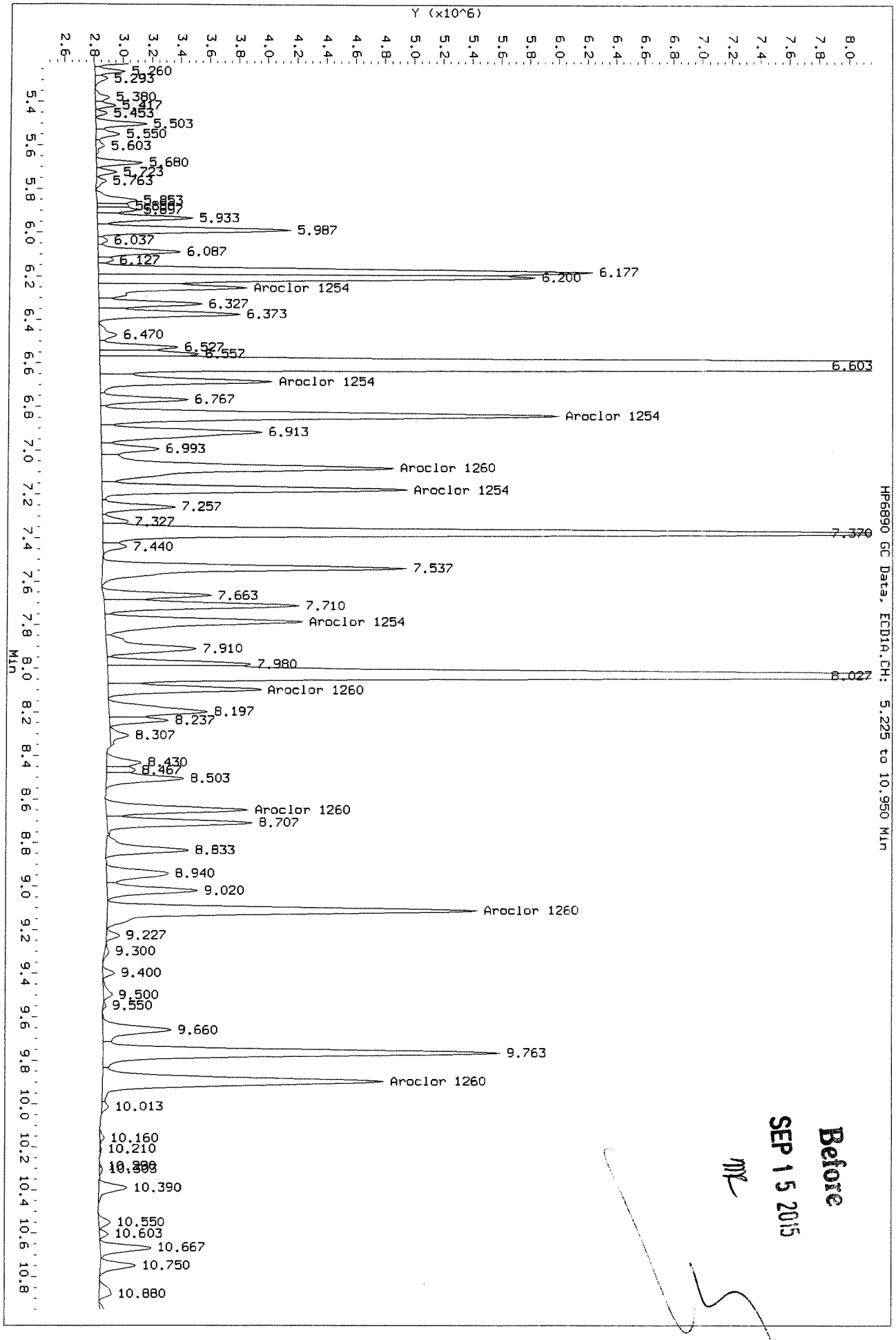
Before
SEP 15 2015

Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27:1
Client Sample ID:



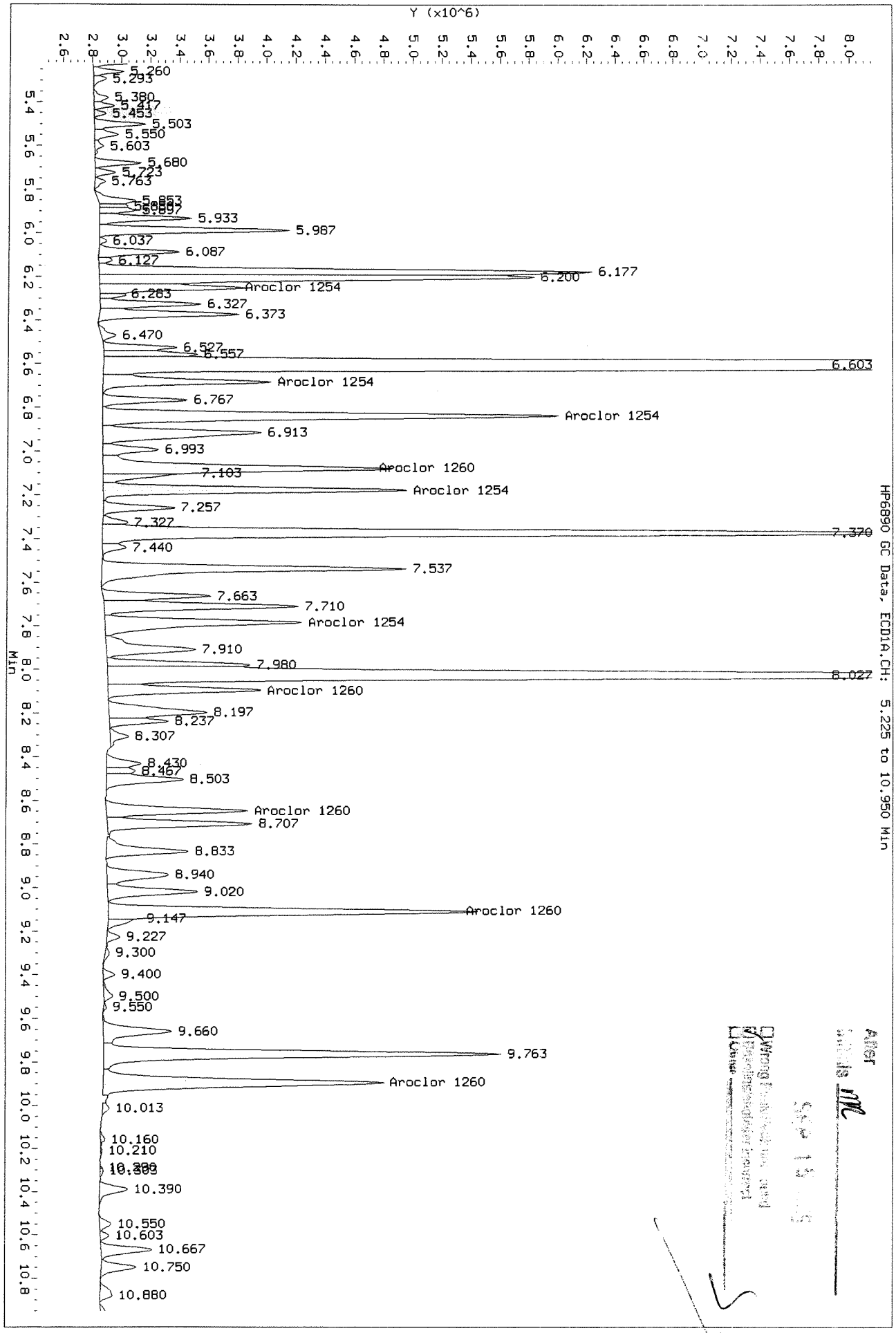
After
Initials
SEP 15 2015
Wrong Peak/Peak not found
Baseline/Integration incorrect
Other

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Before
SEP 15 2015

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD1A.CH: 5.225 to 10.950 Min

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	ICV MR

MR 09/15/15

Primary Review: MR 09/15/15

Secondary Review: [signature]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465234	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	0.00	17571291	6319800	99.26CCV	80.35			99	OK
						%Recovery =	99 OK	80 OK	Limits =	44-130		
Decachlorobiphenyl	12.27	+0.00	13.63	+0.00	15470180	7550124	97.83	91.68			98	OK
						%Recovery =	98 OK	92 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	856.75	788.25	115	106	**106**
Aroclor 1016 {1}	4.24	0.00	4.62	0.00	2523398m	1381703m	703.10	751.70	94.4	101	
Aroclor 1016 {2}	4.74	0.00	4.96	+0.00	2707157m	2538257m	903.56	1,043	121	140	
Aroclor 1016 {3}	4.94	+0.00	5.59	+0.00	8155207m	2098668m	824.50	699.73	111	93.9	
Aroclor 1016 {4}	5.21	+0.00	5.93	+0.00	4767834m	1541066m	961.01	702.08	129	94.2	
Aroclor 1016 {5}	5.50	0.00	6.12	+0.01	4615242m	1606547m	891.59	745.15	120	100	
Aroclor 1221					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,139	1,153	153	155	**153**
Aroclor 1260 {1}	7.08 0.00	7.84 +0.00	10797308	2154248m	1,096	976.59	147	131	
Aroclor 1260 {2}	8.10	9.27 +0.00	8803668	4228502m	1,085	1,119	146	150	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	9086681	4675074m	1,104	1,295	148	174	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	22040015	10109112m	1,172	1,171	157	157	
Aroclor 1260 {5}	9.90	11.03 +0.00	17556446	6712352m	1,238	1,202	166	161	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0686 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Inj Date : 11-SEP-2015 21:40
Sample Info: K1509528-006MS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	17571291	6319800	99.3	80.3		100.00
Aroclor 1016	4.238	4.618	2523398	1381703	703	752	80.00- 120.00	100.00(MH)
	4.741	4.955	2707157	2538257	904	1040	62.72- 94.08	107.28(MH)
	4.938	5.591	8155207	2098668	825	700	184.36- 276.53	323.18(MH)
	5.211	5.925	4767834	1541066	961	702	95.63- 143.44	188.94(MH)
	5.501	6.121	4615242	1606547	892	745	100.19- 150.28	182.90(MH)
		Average of Peak Amounts =			857	788		
Aroclor 1260	7.078	7.835	10797308	2154248	1100	977	80.00- 120.00	100.00(H)
	8.095	9.271	8803668	4228502	1090	1120	71.27- 106.90	81.54(H)
	8.648	9.721	9086681	4675074	1100	1300	72.68- 109.02	84.16(H)
	9.111	10.398	22040015	10109112	1170	1170	169.11- 253.66	204.13(H)
	9.895	11.031	17556446	6712352	1240	1200	131.16- 196.75	162.60(H)
		Average of Peak Amounts =			1140	1150		
Decachlorobiphenyl	12.265	13.625	15470180	7550124	97.8	91.7		100.00
Aroclors, Total	0.000	0.000	18210591	7409105	2000	1940		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

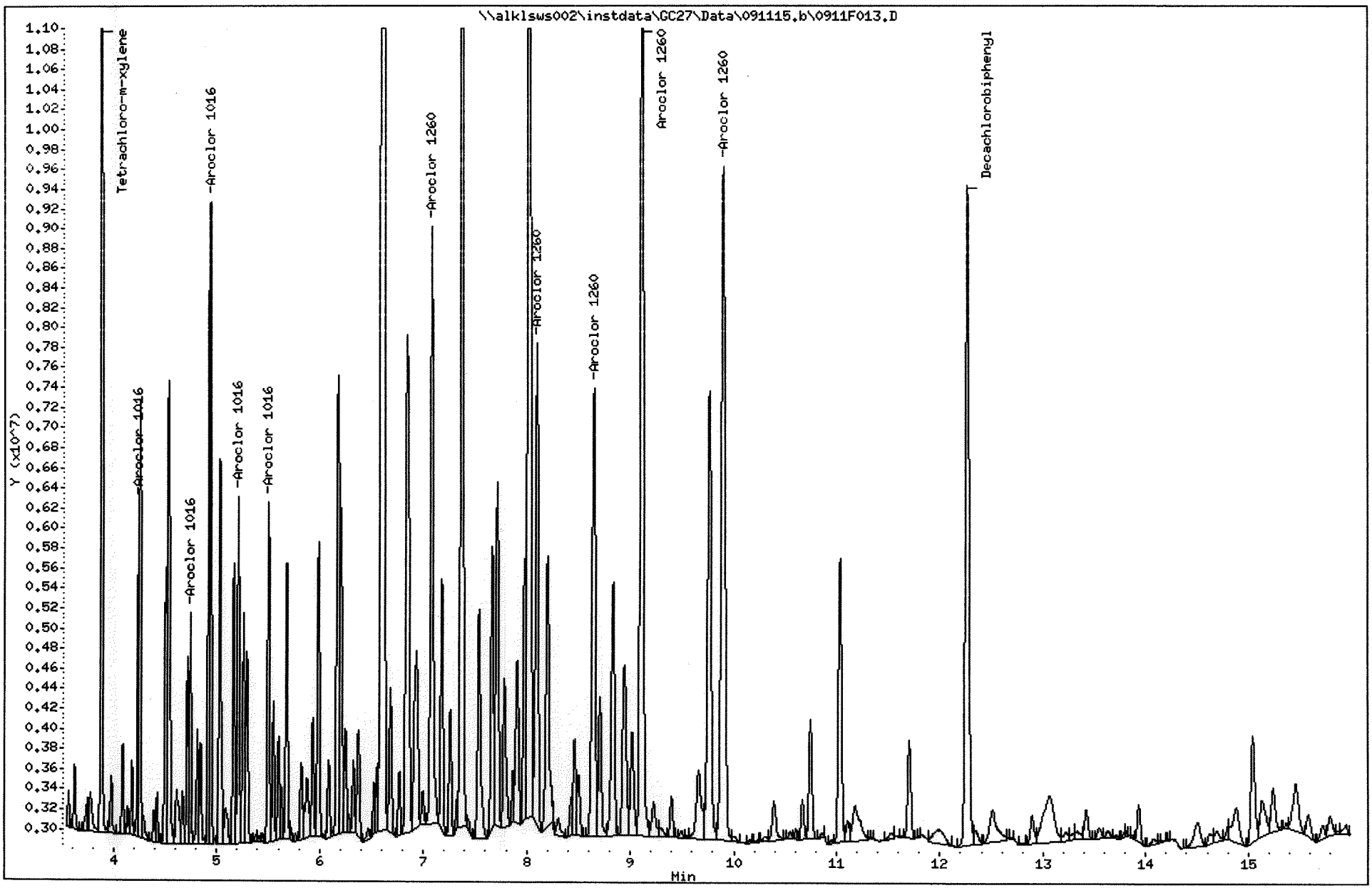
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006MS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

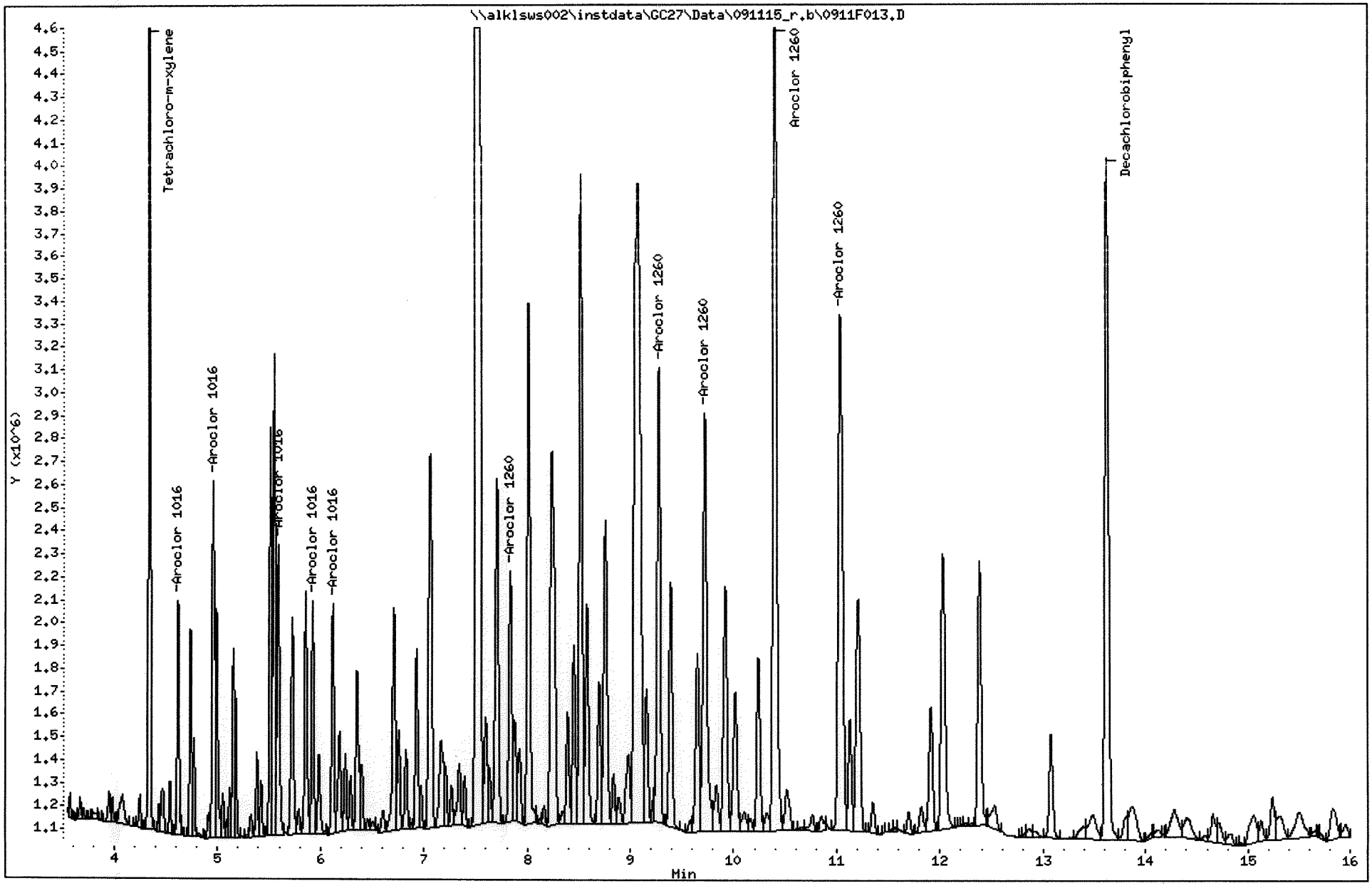


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006MS

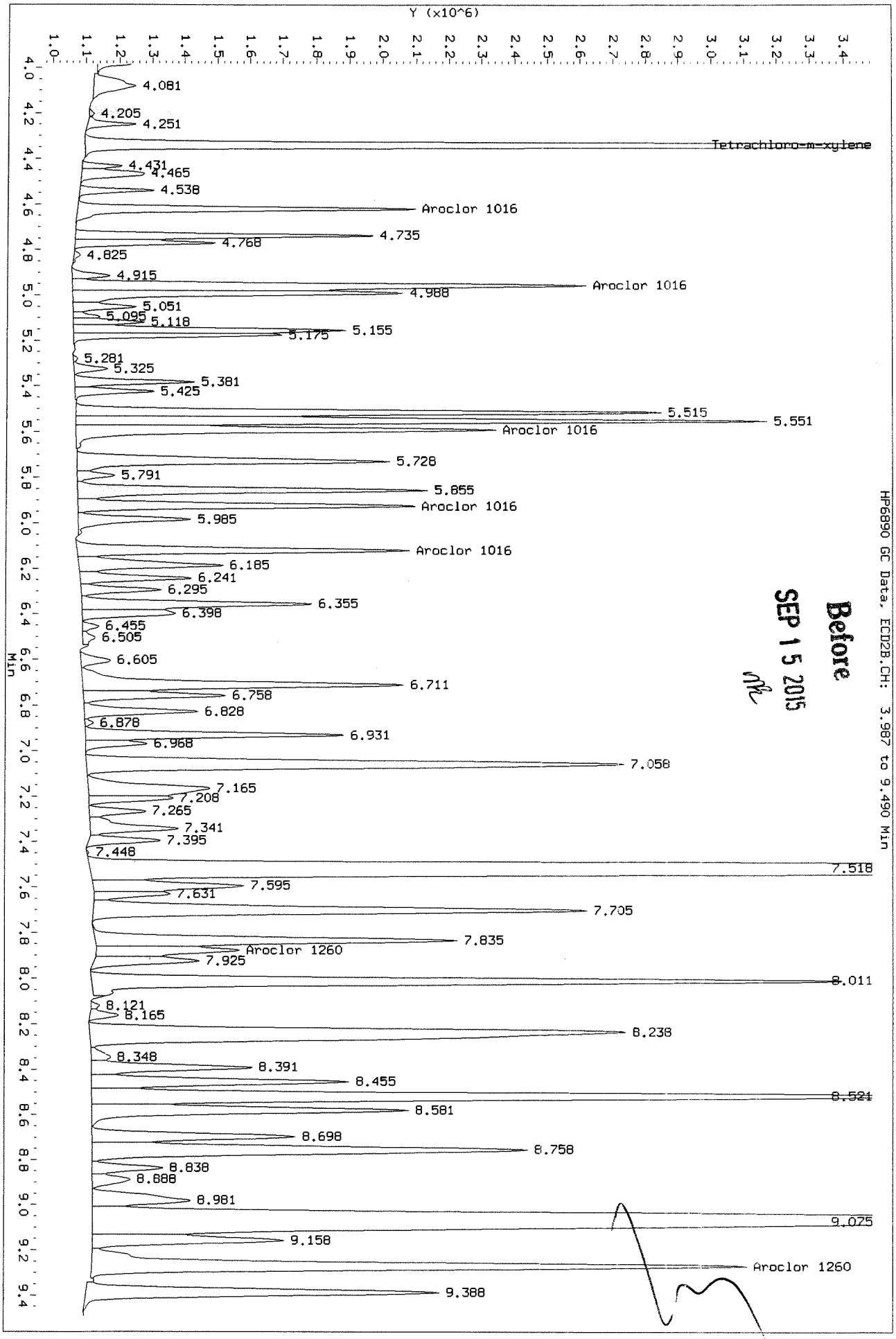
Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-XLB



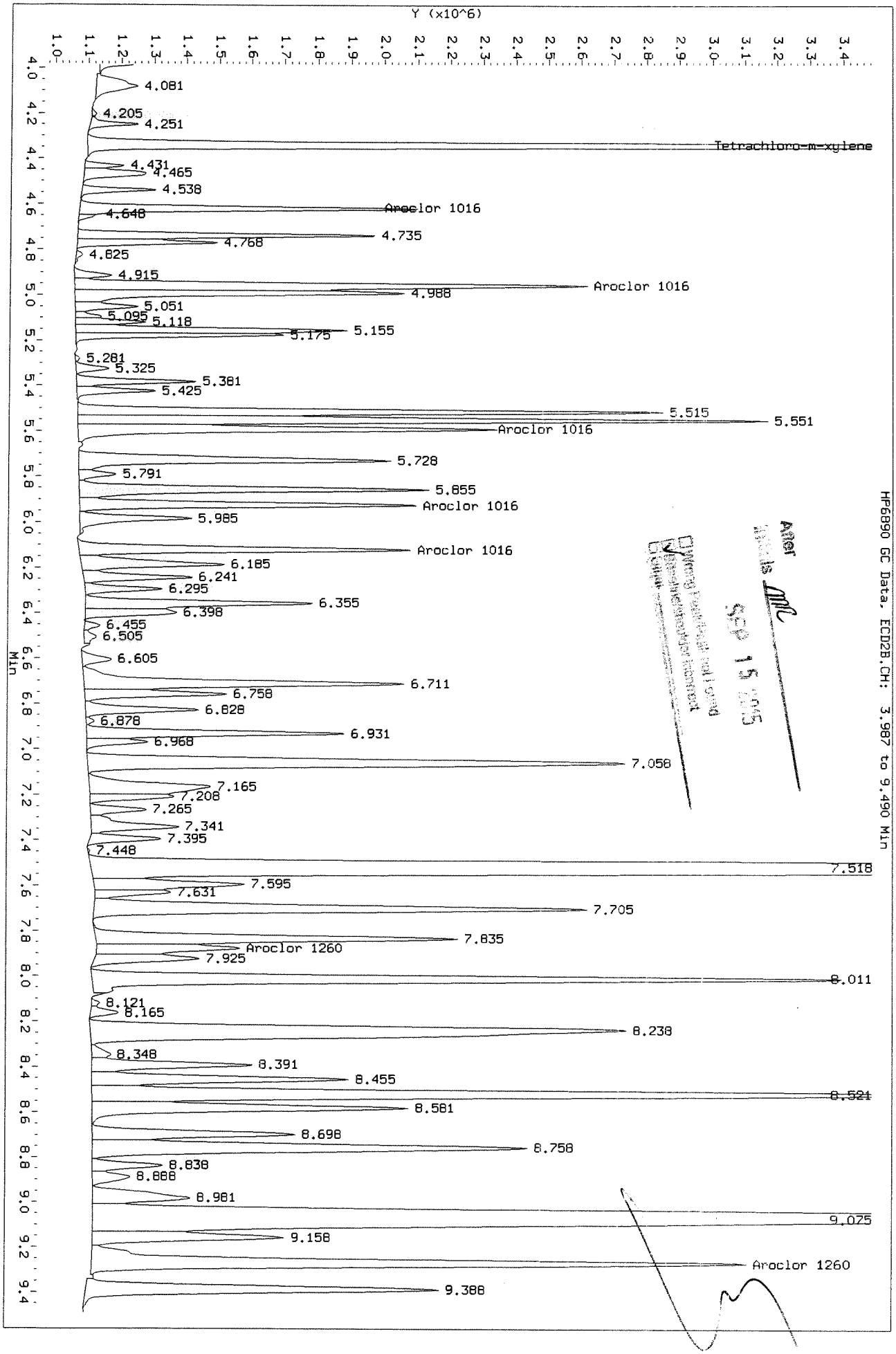
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



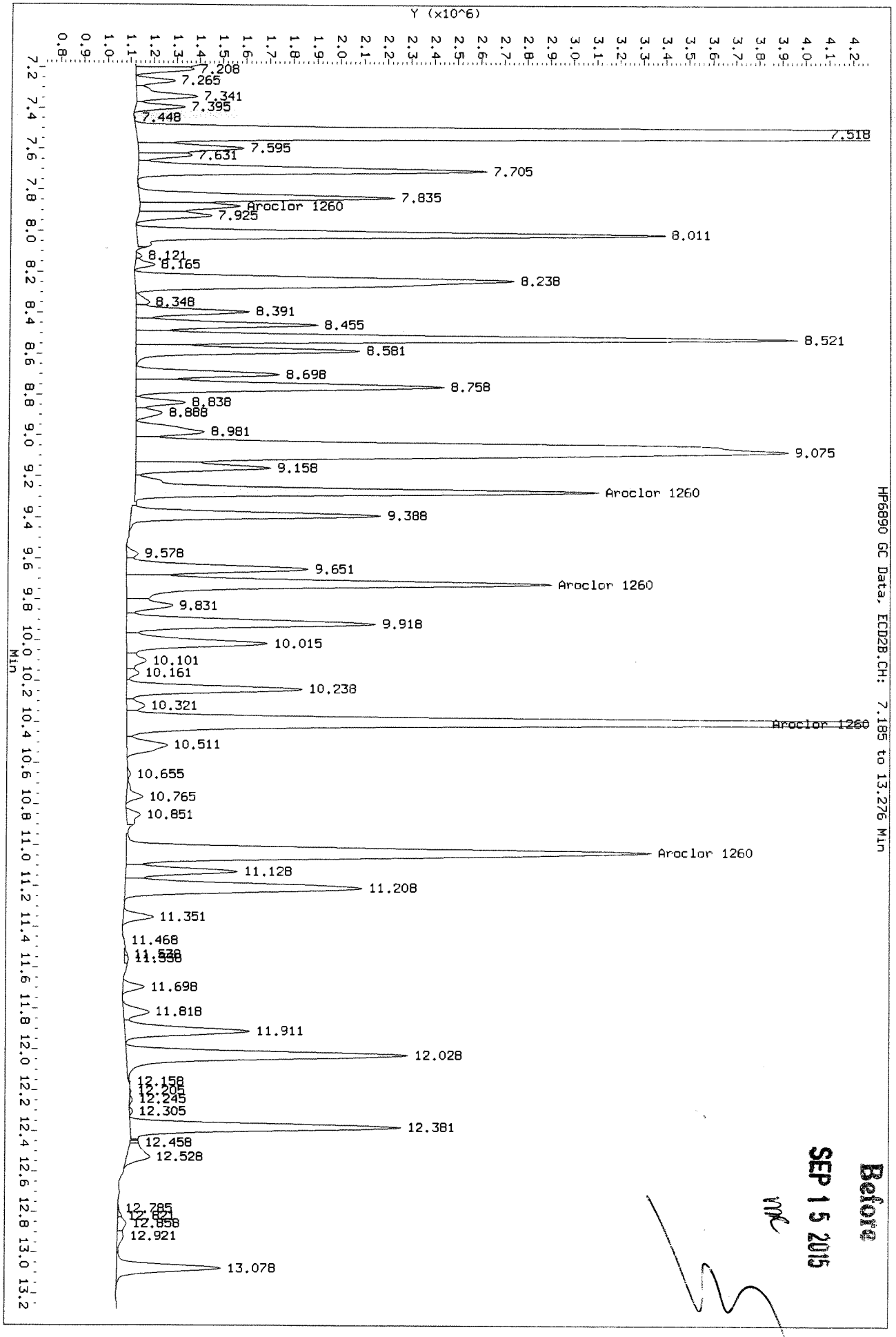
HP6890 GC Data, ECD2B.CH: 3.987 to 9.490 Min

Before
SEP 15 2015

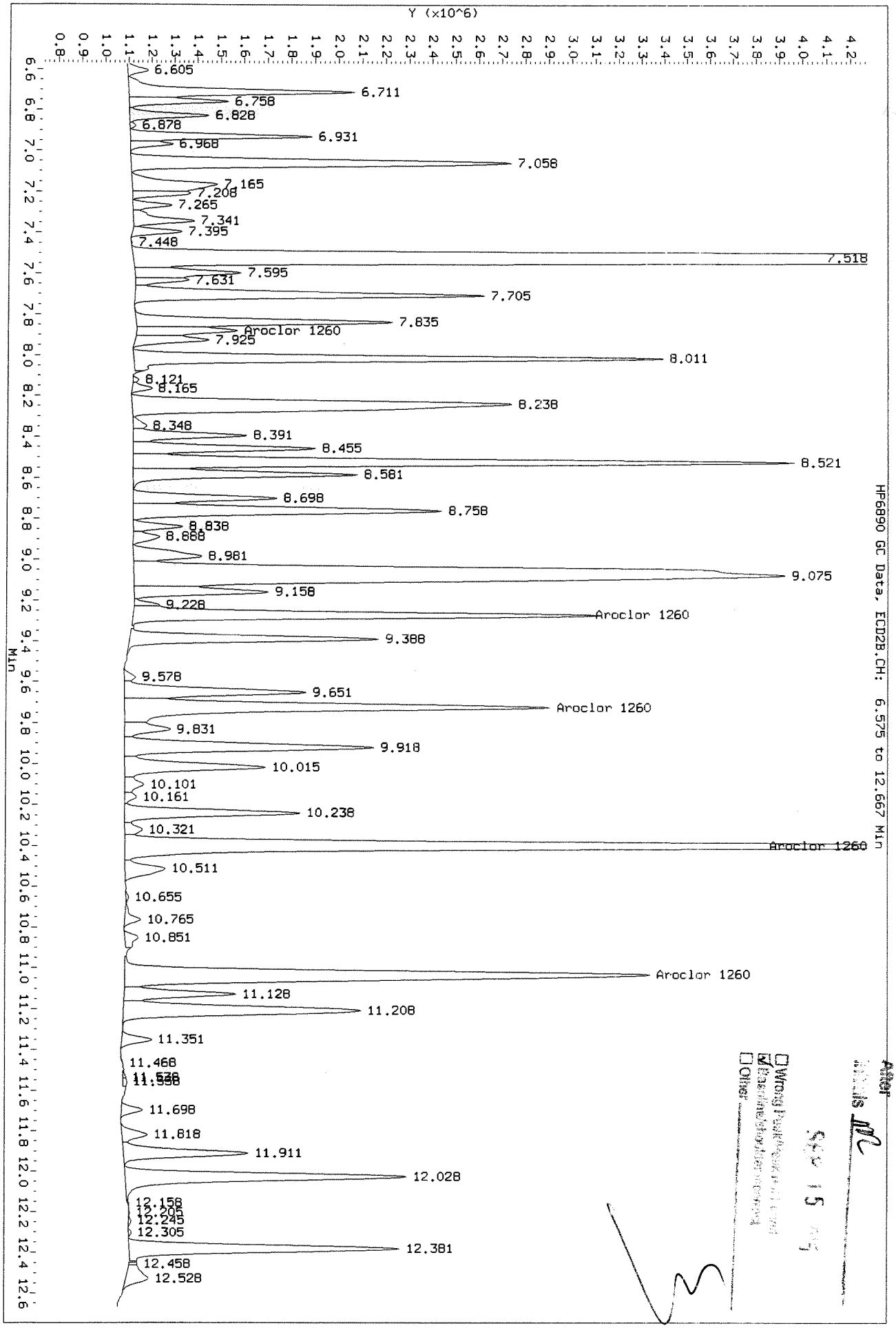
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



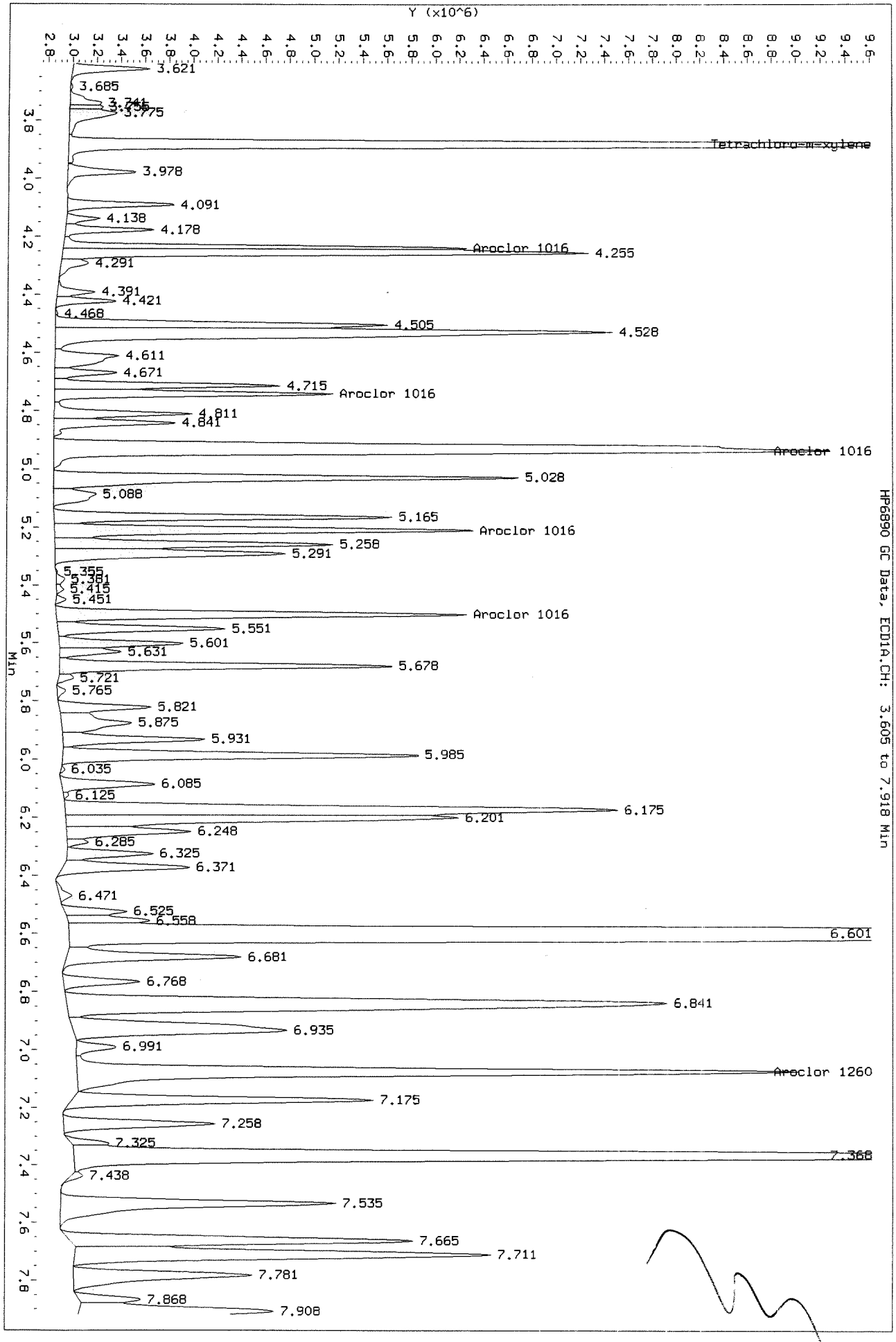
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.1
Client Sample ID:



Before
SEP 15 2015

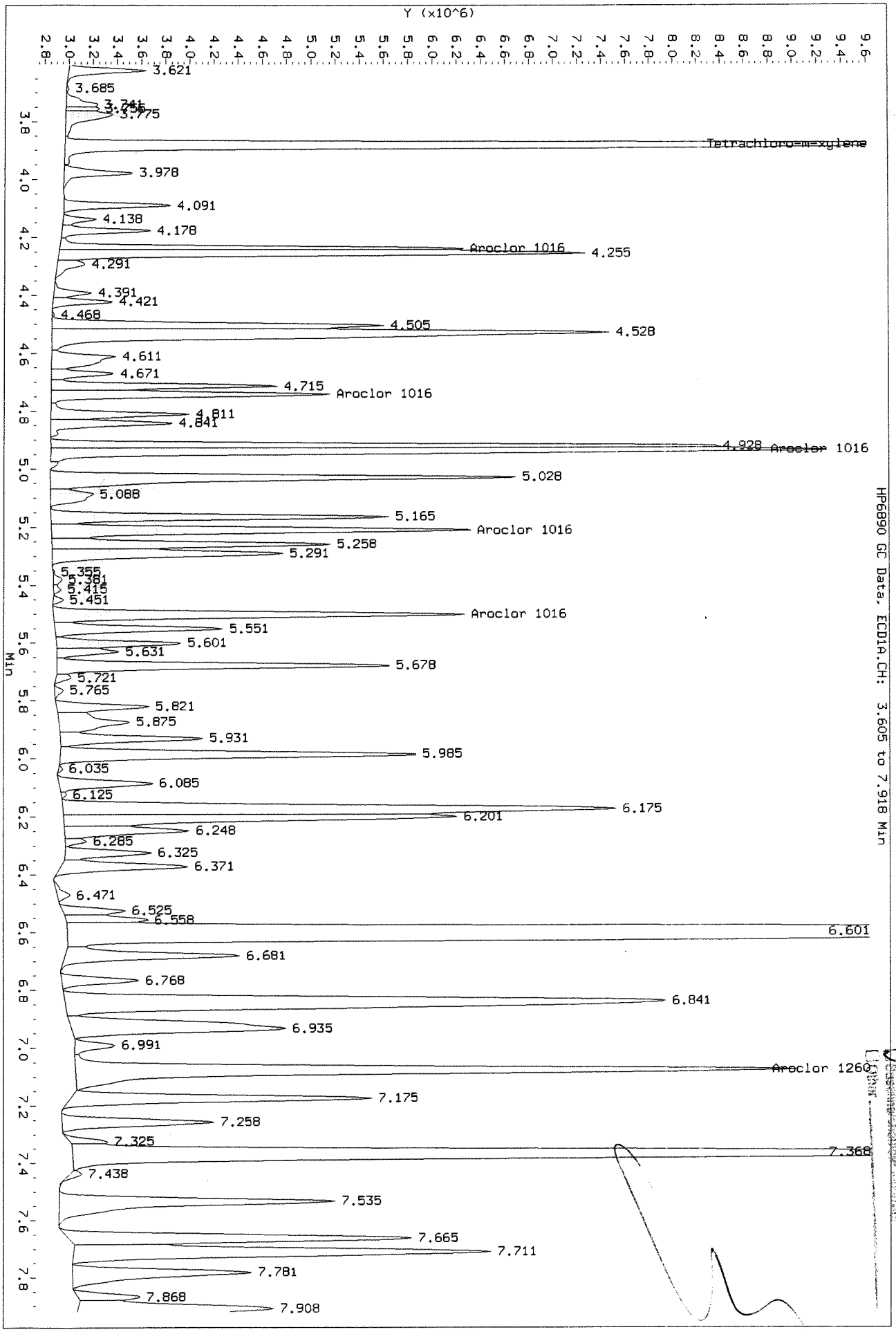

Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 6.575 to 12.667 Min
Y (x10^6)
Min
6.605
6.711
6.758
6.828
6.878
6.931
6.968
7.058
7.165
7.208
7.265
7.341
7.395
7.448
7.518
7.595
7.631
7.705
7.835
Aroclor 1260
7.925
8.011
8.121
8.165
8.238
8.348
8.391
8.455
8.521
8.581
8.698
8.758
8.838
8.888
8.981
9.075
9.158
9.228
Aroclor 1260
9.388
9.578
9.651
Aroclor 1260
9.831
9.918
10.015
10.101
10.161
10.238
10.321
Aroclor 1260
10.511
10.655
10.765
10.851
Aroclor 1260
11.128
11.208
11.351
11.468
11.698
11.818
11.911
12.028
12.158
12.205
12.245
12.305
12.381
12.458
12.528
After
Initials
SEP 15
Wrong Peak/Peak Not Found
Baseline/Shoulder Reached
Other

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD1A.CH: 3.605 to 7.918 Min

Before
SEP 15 2015


Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 3.605 to 7.918 Min
Y (x10^6)
Min
3.621
3.685
3.741
3.775
Tetrachloro-m-xylene
3.978
4.091
4.138
4.178
Aroclor 1016
4.255
4.291
4.391
4.421
4.468
4.505
4.528
4.611
4.671
4.715
Aroclor 1016
4.811
4.841
4.928
Aroclor 1016
5.028
5.088
5.165
Aroclor 1016
5.258
5.291
5.355
5.381
5.415
5.451
Aroclor 1016
5.551
5.601
5.631
5.678
5.721
5.765
5.821
5.875
5.931
5.985
6.035
6.085
6.125
6.175
6.201
6.248
6.285
6.325
6.371
6.471
6.525
6.558
6.601
6.681
6.768
6.841
6.935
6.991
Aroclor 1260
7.175
7.258
7.325
7.368
7.438
7.535
7.665
7.711
7.781
7.868
7.908

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F014.D
Lab ID: KWG1508618-2 -- K1509528-006DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/11/2015 22:04
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	NR

Primary Review: [illegible] 09/15/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F014.D
Lab ID: KWG1508618-2 -- K1509528-006DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/11/2015 22:04
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: mR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465235	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	+0.00	16718550	6363109	94.44CCV	80.90			94	OK
					%Recovery =		94 OK	81 OK	Limits =	44-130		
Decachlorobiphenyl	12.26	+0.00	13.62	+0.00	14194431	6923777	89.76	84.08			90	OK
					%Recovery =		90 OK	84 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	855.90	774.08	114	103	**103**
Aroclor 1016 {1}	4.24	+0.00	4.62	+0.00	3103395m	1369979m	864.70	745.32	116	99.6	
Aroclor 1016 {2}	4.74	+0.00	4.96	+0.00	2507113m	2403699m	836.80	987.32	112	132	
Aroclor 1016 {3}	4.94	+0.00	5.59	+0.00	8134329m	2092095m	822.39	697.54	110	93.3	
Aroclor 1016 {4}	5.21	+0.00	5.92	+0.00	4515981m	1545203m	910.24	703.96	122	94.1	
Aroclor 1016 {5}	5.50	0.00	6.12	+0.01	4375868m	1587381m	845.35	736.26	113	98.4	
Aroclor 1221					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,081	1,125	145	150	**145**
Aroclor 1260 {1}	7.08 0.00	7.83 +0.00	10248228	2212390m	1,040	1,003	139	134	
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	8354044	4110945m	1,030	1,088	138	145	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	8612185	4513412m	1,046	1,251	140	167	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	20975399	9768068m	1,116	1,131	149	151	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	16650665	6437149m	1,174	1,153	157	154	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.1926 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Inj Date : 11-SEP-2015 22:04
Sample Info: K1509528-006DMS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	16718550	6363109	94.4	80.9		100.00
Aroclor 1016	4.240	4.620	3103395	1369979	865	745	80.00- 120.00	100.00(MH)
	4.743	4.957	2507113	2403699	837	987	62.72- 94.08	80.79(MH)
	4.937	5.590	8134329	2092095	822	698	184.36- 276.53	262.11(MH)
	5.210	5.923	4515981	1545203	910	704	95.63- 143.44	145.52(MH)
	5.500	6.120	4375868	1587381	845	736	100.19- 150.28	141.00(MH)
		Average of Peak Amounts =			856	774		
Aroclor 1260	7.077	7.833	10248228	2212390	1040	1000	80.00- 120.00	100.00(H)
	8.097	9.270	8354044	4110945	1030	1090	71.27- 106.90	81.52(H)
	8.647	9.720	8612185	4513412	1050	1250	72.68- 109.02	84.04(H)
	9.110	10.397	20975399	9768068	1120	1130	169.11- 253.66	204.67(H)
	9.897	11.033	16650665	6437149	1170	1150	131.16- 196.75	162.47(H)
		Average of Peak Amounts =			1080	1120		
Decachlorobiphenyl	12.263	13.623	14194431	6923777	89.8	84.1		100.00
Aroclors, Total	0.000	0.000	17495441	7208064	1940	1900		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

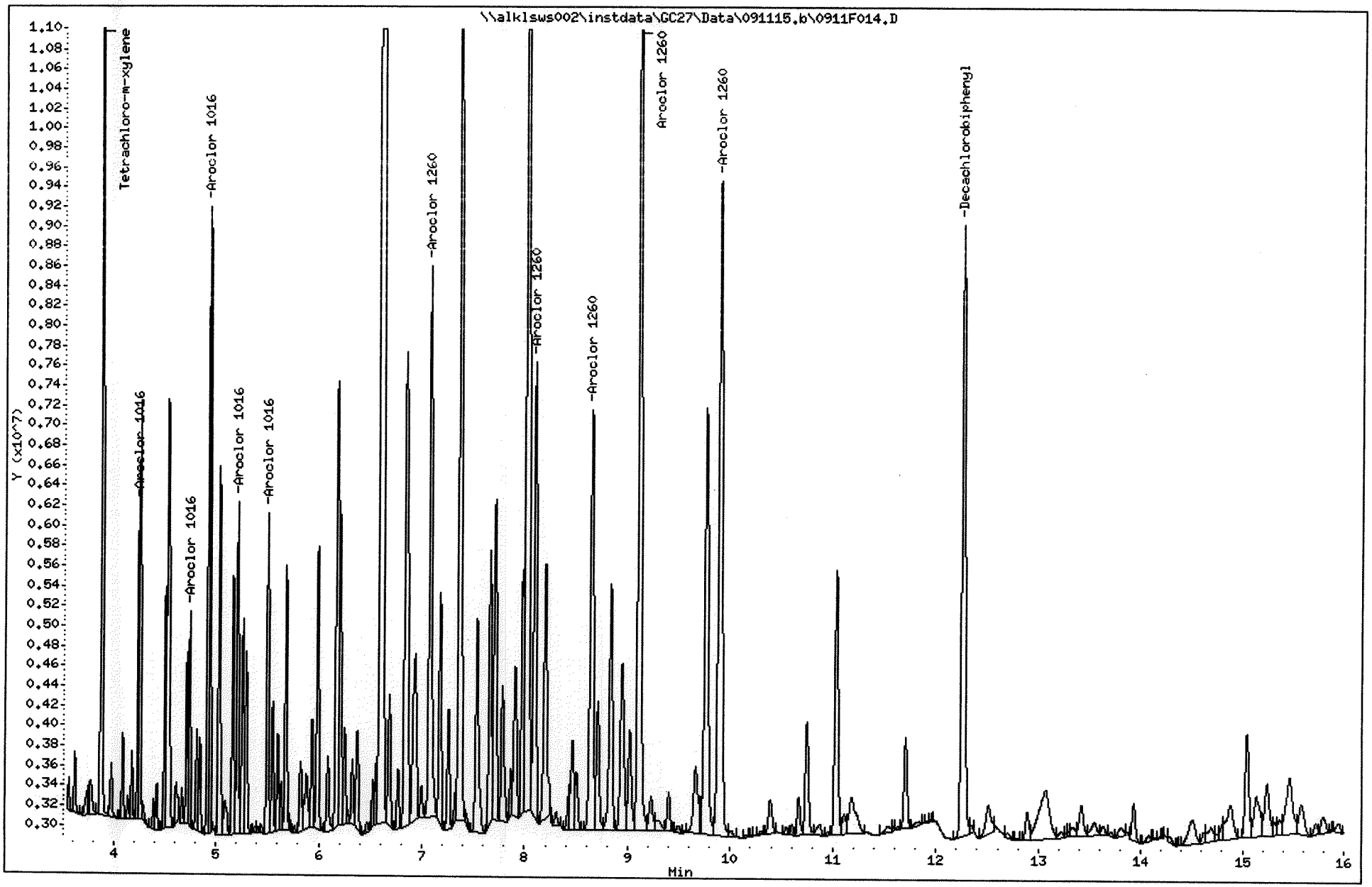
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509528-006DMS

Instrument: GC27.i

Operator: SMURRAY

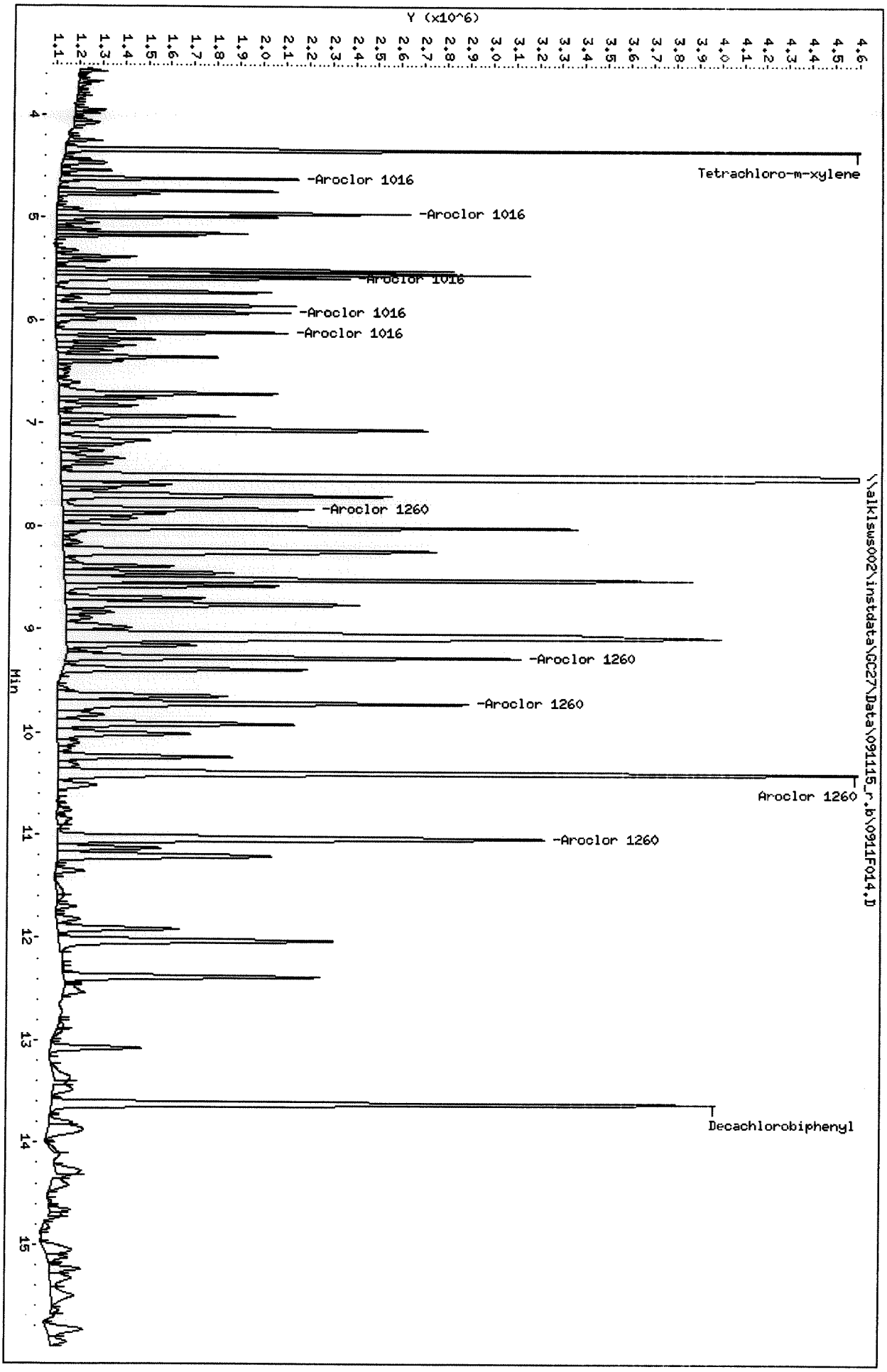
Column phase: DB-35MS

Column diameter: 0.32

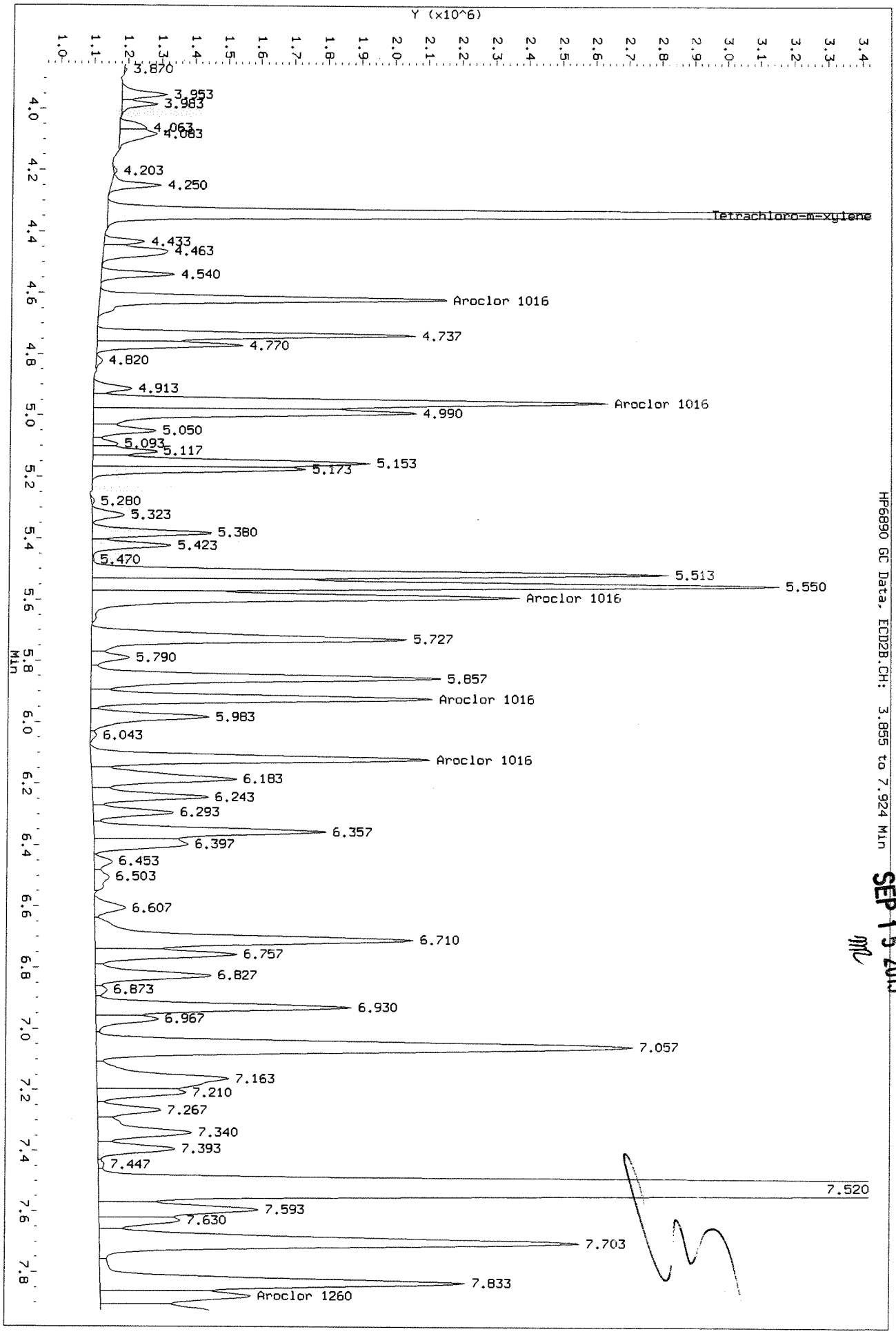


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509828-006DMS
Column phase: DB-XLB

Instrument: GC27.i
Operator: SHURRAY
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

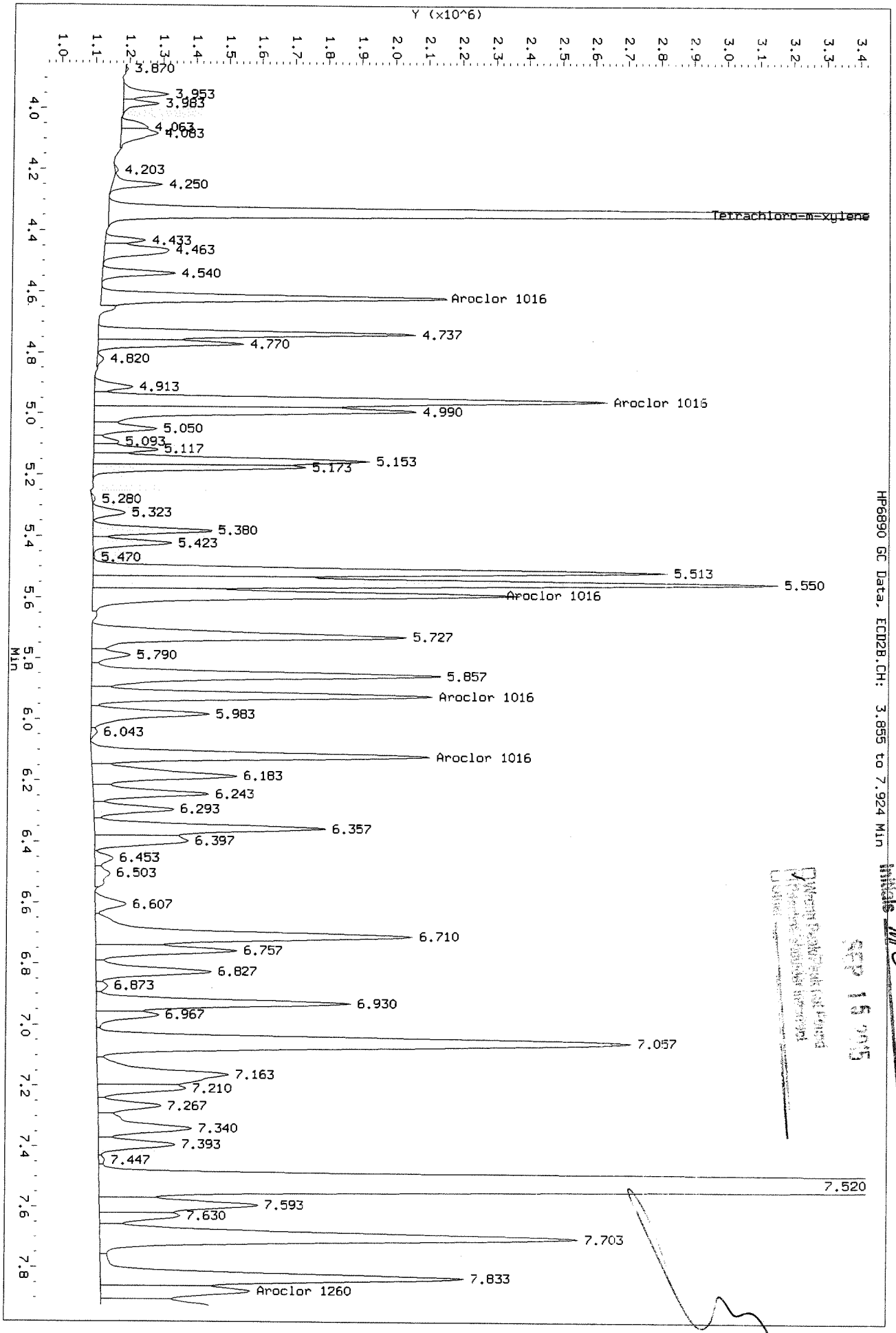


HP6890 GC Data, ECD2B.CH: 3.855 to 7.924 Min

Before

SEP 15 2015

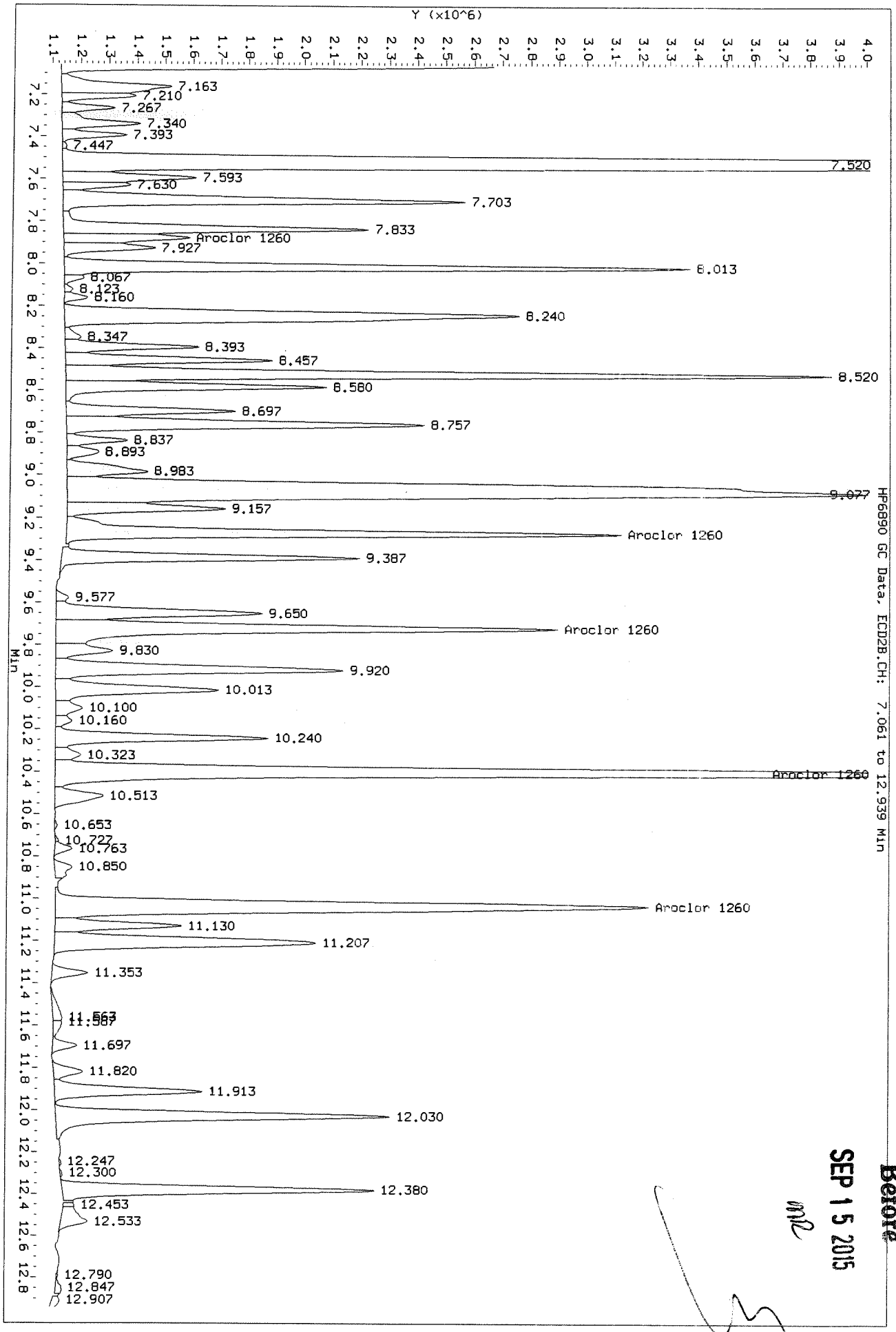
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD2B.CH: 3.855 to 7.924 Min

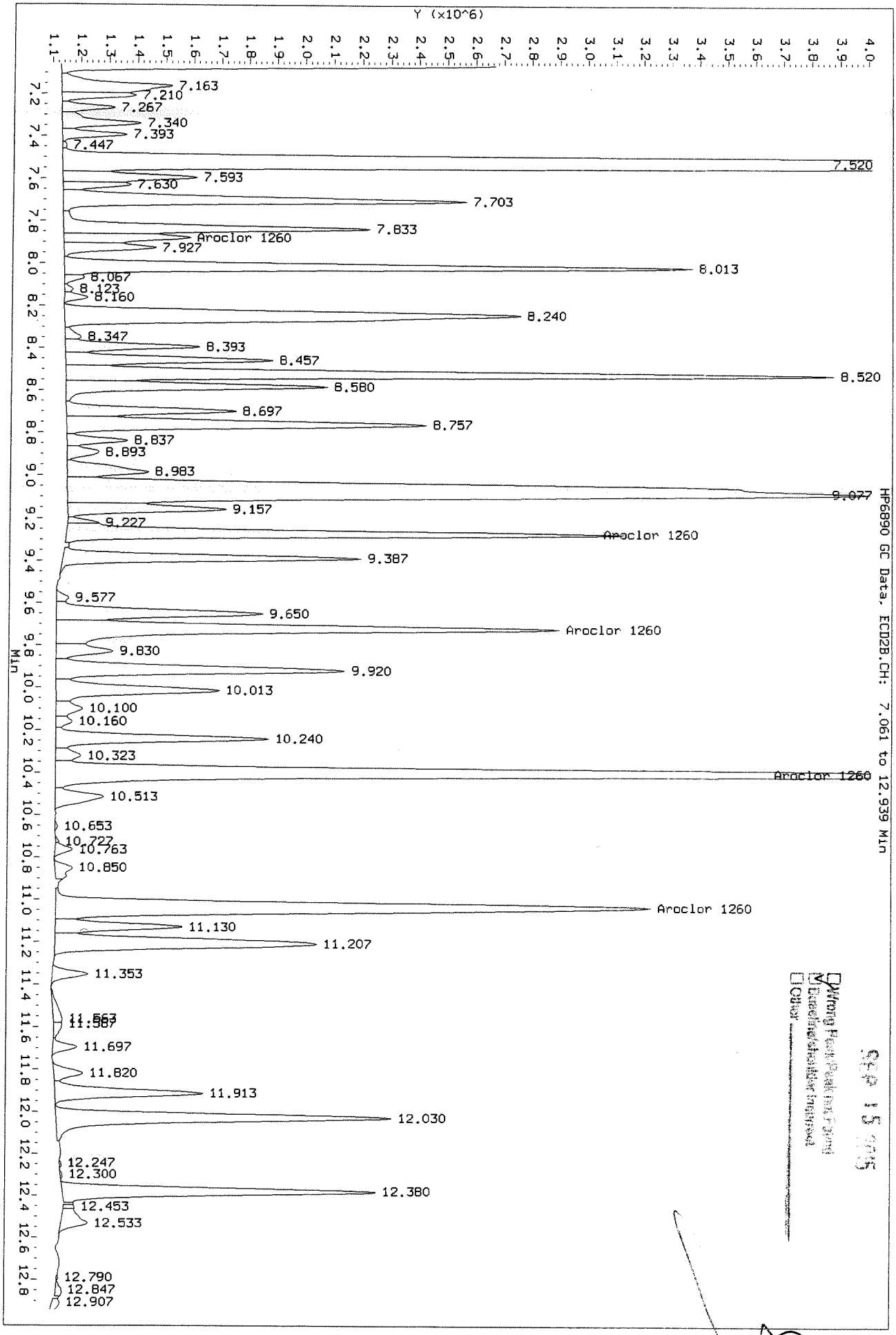
After

Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.1
Client Sample ID:



Before
SEP 15 2015

Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

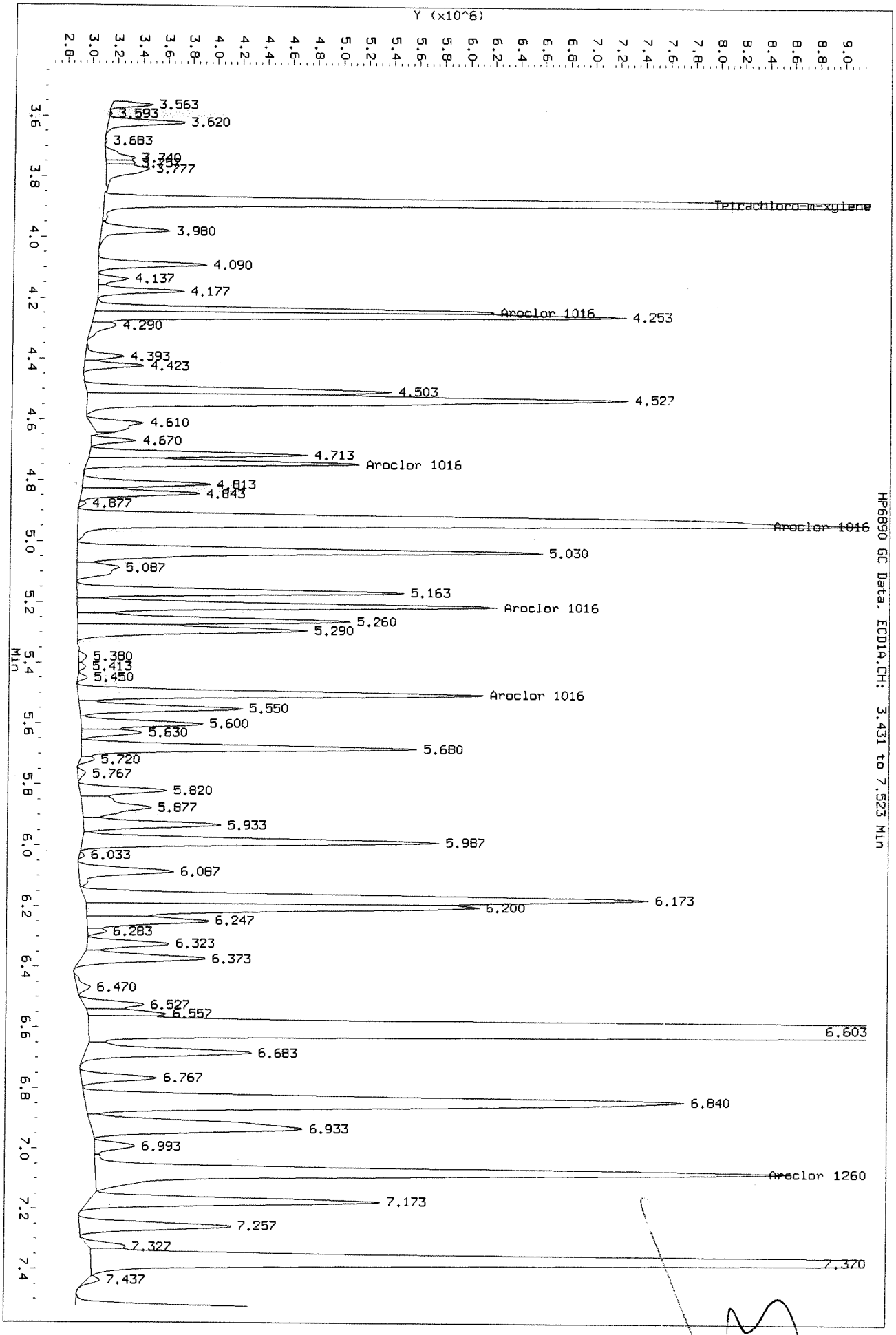


After
Initials

SEP 15 2015

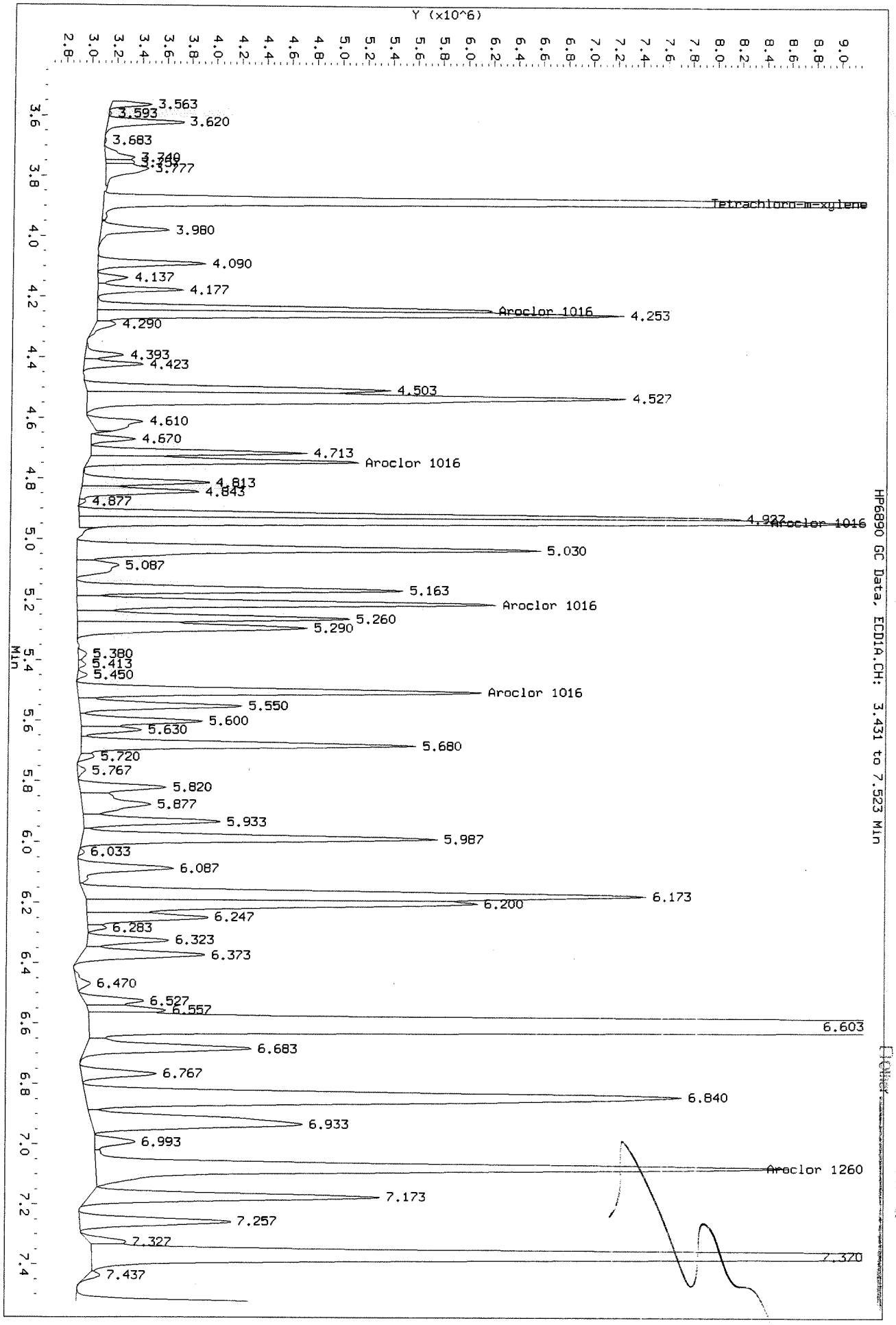
☐ Wrong Peak/Peak Not Found
☑ Baseline/shoulder Improved
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD1A.CH: 3.431 to 7.523 Min

SEP 15 2015


Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:
Y (x10^6)
HP6890 GC Data, ECD1A.CH; 3.431 to 7.523 Min
Min
Tetrachloro-m-xylene
Aroclor 1016
Aroclor 1260

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JOU ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	nR

Primary Review: mR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:57:09
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: AR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:57:13
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465236	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	16426260	6005261	92.79CCV	76.35			76 OK
				%Recovery =	93 OK	76 OK	Limits =	44-130	
Decachlorobiphenyl	12.26 0.00	13.62 0.00	13900789	6930730	87.91	84.16			88 OK
				%Recovery =	88 OK	84 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	766.08	650.12	153	130	130
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	3062176	1286346	853.22	699.82	171	140	
Aroclor 1016 {2}	4.74 0.00	4.95 0.00	2330028	1600473	777.69	657.39	156	131	
Aroclor 1016 {3}	4.93 0.00	5.59 0.00	7196195	1843956	727.55	614.81	146	123	
Aroclor 1016 {4}	5.21 0.00	5.92 0.00	3620850	1392440	729.82	634.37	146	127	
Aroclor 1016 {5}	5.50 0.00	6.11 -0.01	3841457	1388962	742.11	644.23	148	129	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
ε: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	865.73	854.55	173	171	**171**
Aroclor 1260 {1}	7.07 0.00	7.83 0.00	7077147	1632040m	718.45	739.86	144	148	
Aroclor 1260 {2}	8.09 0.00	9.26 -0.01	7418100	3415129m	914.25	903.51	183	181	
Aroclor 1260 {3}	8.64 0.00	9.72 0.00	7348701	3099870m	892.81	858.97	179	172	
Aroclor 1260 {4}	9.11 0.00	10.39 0.00	16888430	7764795m	898.38	899.28	180	180	
Aroclor 1260 {5}	9.89 0.00	11.03 0.00	12835756	4865586m	904.77	871.14	181	174	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Inj Date : 12-SEP-2015 00:46
Sample Info: KWG1508618-LCS
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16426260	6005261	92.8	76.3		100.00
Aroclor 1016	4.238	4.618	3062176	1286346	853	700	80.00- 120.00	100.00(H)
	4.741	4.951	2330028	1600473	778	657	62.72- 94.08	76.09(H)
	4.934	5.588	7196195	1843956	728	615	184.36- 276.53	235.00(H)
	5.208	5.921	3620850	1392440	730	634	95.63- 143.44	118.24(H)
	5.498	6.114	3841457	1388962	742	644	100.19- 150.28	125.45(H)
		Average of Peak Amounts =			766	650		
Aroclor 1260	7.074	7.831	7077147	1632040	718	740	80.00- 120.00	100.00(H)
	8.091	9.264	7418100	3415129	914	904	71.27- 106.90	104.82(H)
	8.644	9.718	7348701	3099870	893	859	72.68- 109.02	103.84(H)
	9.108	10.391	16888430	7764795	898	899	169.11- 253.66	238.63(H)
	9.894	11.028	12835756	4865586	905	871	131.16- 196.75	181.37(H)
		Average of Peak Amounts =			866	855		
Decachlorobiphenyl	12.261	13.621	13900789	6930730	87.9	84.2		100.00
Aroclors, Total	0.000	0.000	14323768	5657919	1630	1500		0.00

QC Flag Legend

H - Operator selected an alternate compound hit.

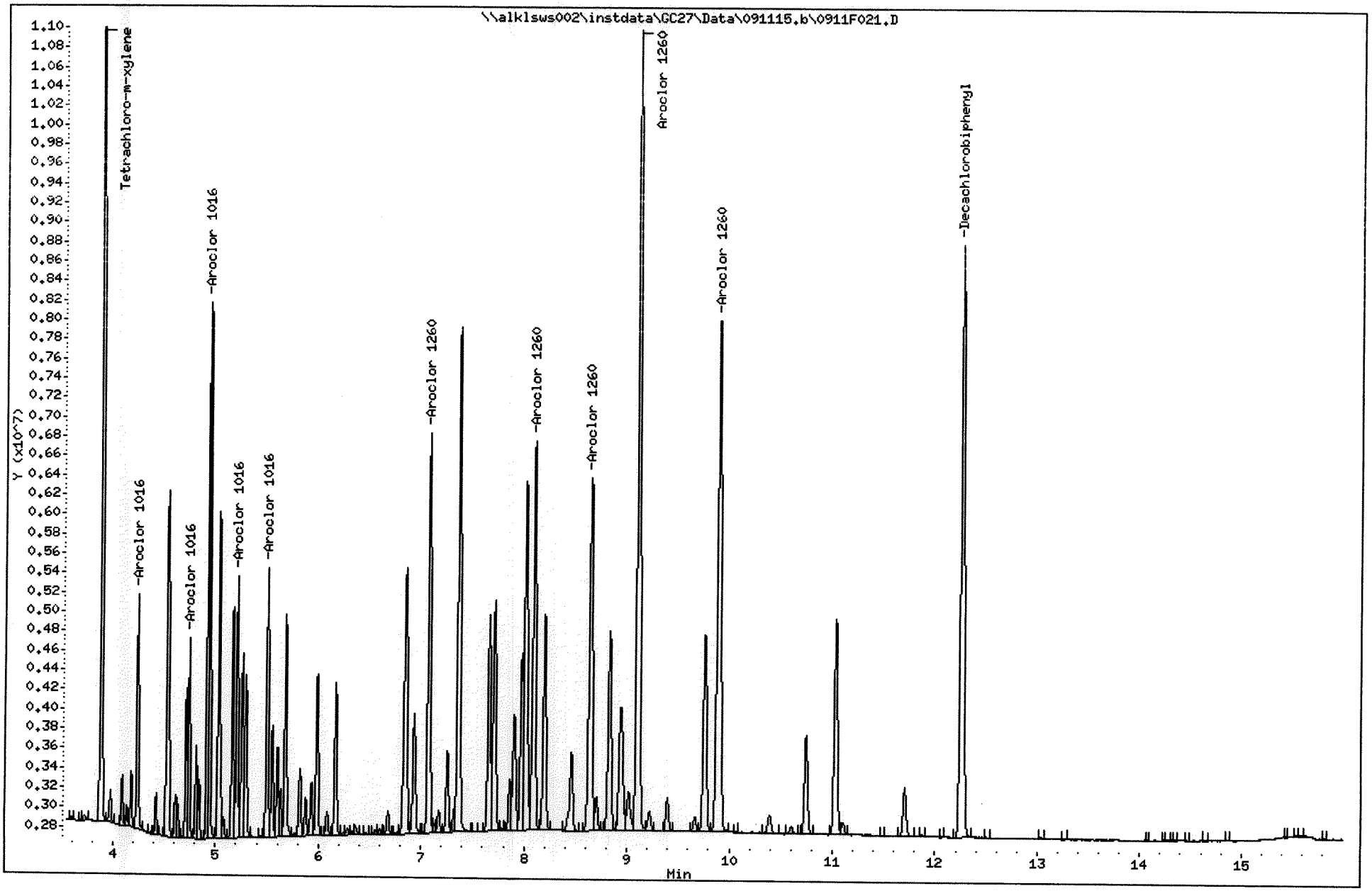
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWG1508618-LCS

Instrument: GC27.i

Operator: SMURRAY

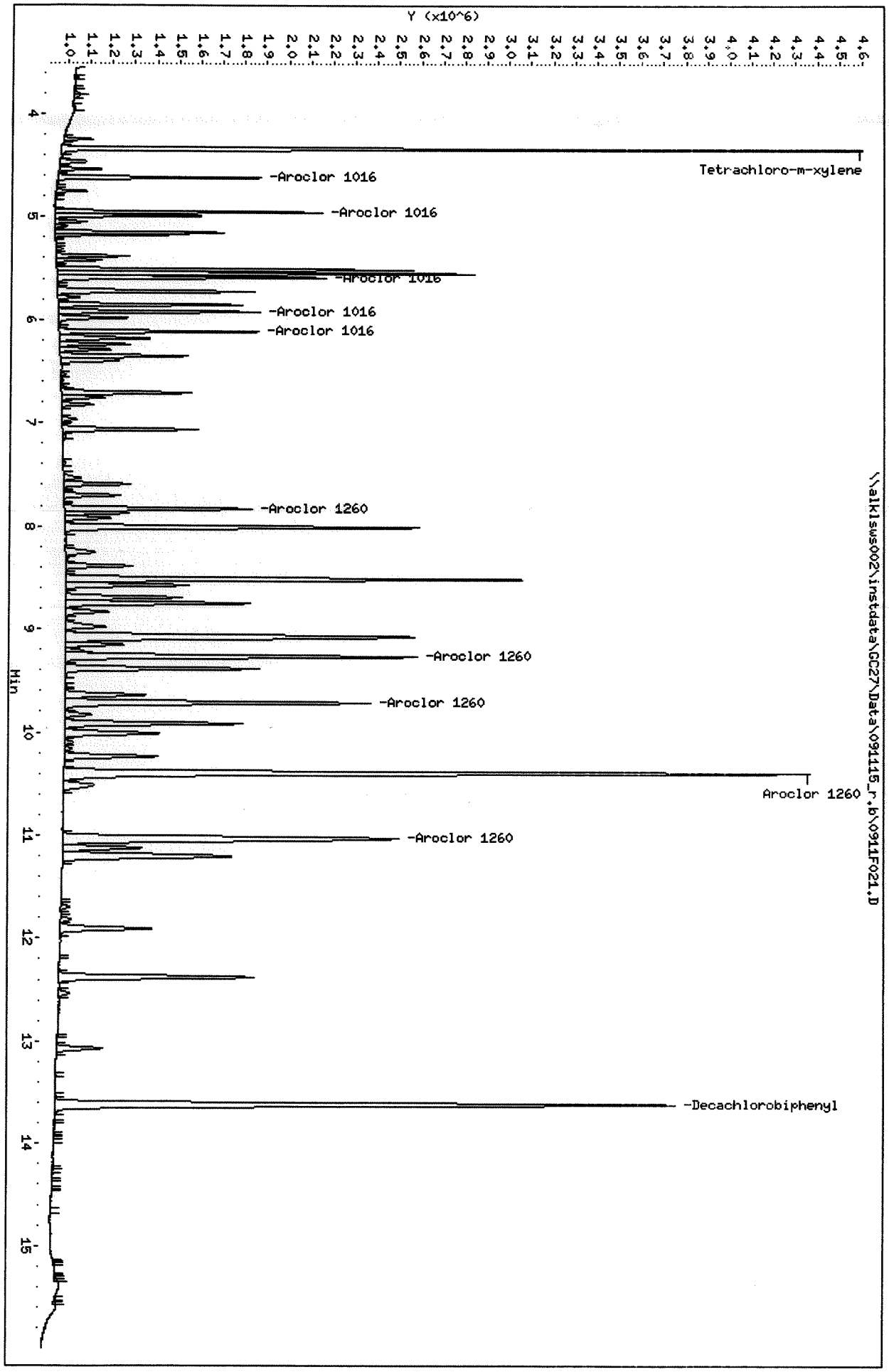
Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWG1508618-LCS
Column phase: DB-XLB

Instrument: GC27.i
Operator: SMURRAY
Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\091115.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\091115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0911F001	PCB_REG	PRIMER
2	IB	100	0911F002	PCB_REG	PRIMER
3	CCV	1	0911F003	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
4	IB	2	0911F004	PCB_REG	IB
5	SMPL	3	0911F005	PCB_REG	K1509342-003 RERUN
6	SMPL	4	0911F006	PCB_REG	K1509364-001
7	SMPL	5	0911F007	PCB_REG	K1509528-001
8	SMPL	6	0911F008	PCB_REG	K1509528-002
9	SMPL	7	0911F009	PCB_REG	K1509528-003
10	SMPL	8	0911F010	PCB_REG	K1509528-004
11	SMPL	9	0911F011	PCB_REG	K1509528-005
12	SMPL	10	0911F012	PCB_REG	K1509528-006
13	MS	11	0911F013	PCB_REG	K1509528-006MS
14	DMS	12	0911F014	PCB_REG	K1509528-006DMS
15	CCV	1	0911F015	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
16	IB	2	0911F016	PCB_REG	IB
17	SMPL	13	0911F017	PCB_REG	K1509528-007
18	SMPL	14	0911F018	PCB_REG	K1509667-001 see 10x a/s
19	SMPL	15	0911F019	PCB_REG	K1509667-002
20	SMPL	16	0911F020	PCB_REG	K1509732-001
21	LCS	17	0911F021	PCB_REG	KWG1508618-LCS
22	MB	18	0911F022	PCB_REG	KWG1508618-MB
23	SMPL	19	0911F023	PCB_REG	K1509920-001
24	SMPL	20	0911F024	PCB_REG	K1509920-002
25	SMPL	21	0911F025	PCB_REG	K1509920-003
26	MS	22	0911F026	PCB_REG	K1509920-003MS
27	DMS	23	0911F027	PCB_REG	K1509920-003DMS
28	LCS	24	0911F028	PCB_REG	KWG1508674-LCS
29	MB	25	0911F029	PCB_REG	KWG1508674-MB
30	CCV	1	0911F030	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
31	IB	2	0911F031	PCB_REG	IB
32					

Run # 463046
Col # 13694
KWG 1508799

Last Modified: Fri Sep 11 16:58:38 2015

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D
Lab ID: KWG1508799-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 17:47
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCN dk

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D
Lab ID: KWG1508799-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 17:47
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Qual

Primary Review: AMR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D			**Vial:**	1
Acqu Date:	09/11/2015 17:47	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9471331	4357293	53.50	55.40			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8199255	4338697	51.85	52.69			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	451.92	472.93			
Aroclor 1016 {1}	4.24	4.62	1755801	910290	489.22	495.23			
Aroclor 1016 {2}	4.74	4.95	1405809	1201250	469.22	493.41			
Aroclor 1016 {3}	4.94	5.59	4402966	1332846	445.15	444.40			
Aroclor 1016 {4}	5.21	5.92	2123445	1026903	428.00	467.83			
Aroclor 1016 {5}	5.50	6.12	2215642	999908	428.03	463.78			
Aroclor 1260			0	0	481.93	518.70			
Aroclor 1260 {1}	7.08	7.83	4340588	1091720m	440.64	494.91			
Aroclor 1260 {2}	8.10	9.27	3893169	1983004m	479.82	524.63			
Aroclor 1260 {3}	8.65	9.72	4007207	1874613m	486.85	519.45			
Aroclor 1260 {4}	9.11	10.39	9290552	4515064m	494.21	522.91			
Aroclor 1260 {5}	9.90	11.03	7208391	2969057m	508.11	531.58			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D
Inj Date : 11-SEP-2015 17:47
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	9471331	4357293	53.5	55.4		100.00
Aroclor 1016	4.239	4.619	1755801	910290	489	495	80.00- 120.00	100.00
	4.742	4.952	1405809	1201250	469	493	62.72- 94.08	80.07
	4.935	5.589	4402966	1332846	445	444	184.36- 276.53	250.77
	5.209	5.922	2123445	1026903	428	468	95.63- 143.44	120.94
	5.502	6.115	2215642	999908	428	464	100.19- 150.28	126.19
		Average of Peak Amounts =			452	473		
Aroclor 1260	7.079	7.832	4340588	1091720	441	495	80.00- 120.00	100.00
	8.095	9.269	3893169	1983004	480	525	71.27- 106.90	89.69
	8.645	9.715	4007207	1874613	487	519	72.68- 109.02	92.32
	9.109	10.392	9290552	4515064	494	523	169.11- 253.66	214.04
	9.895	11.029	7208391	2969057	508	532	131.16- 196.75	166.07
		Average of Peak Amounts =			482	519		
Decachlorobiphenyl	12.262	13.622	8199255	4338697	51.9	52.7		100.00

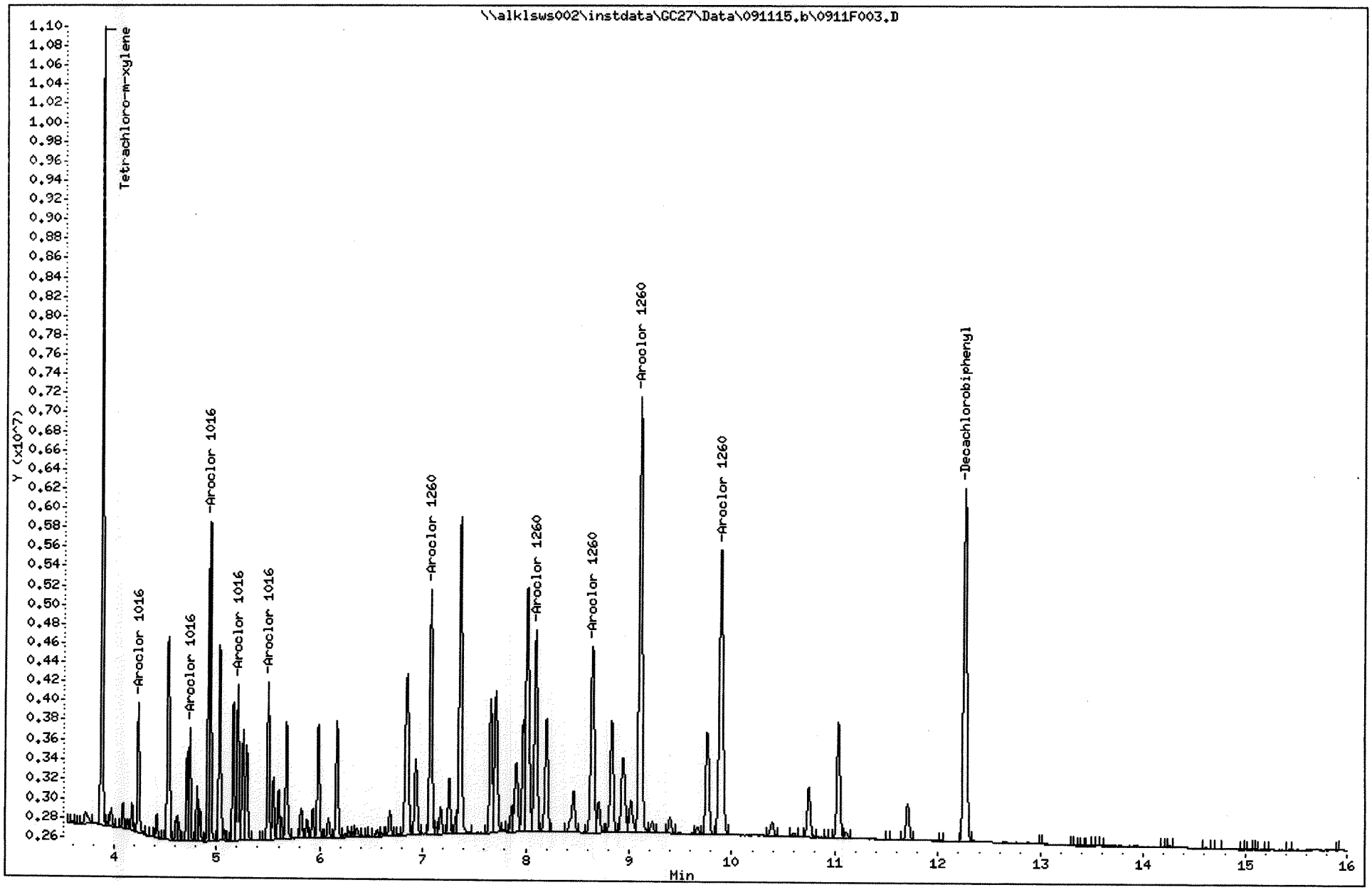
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

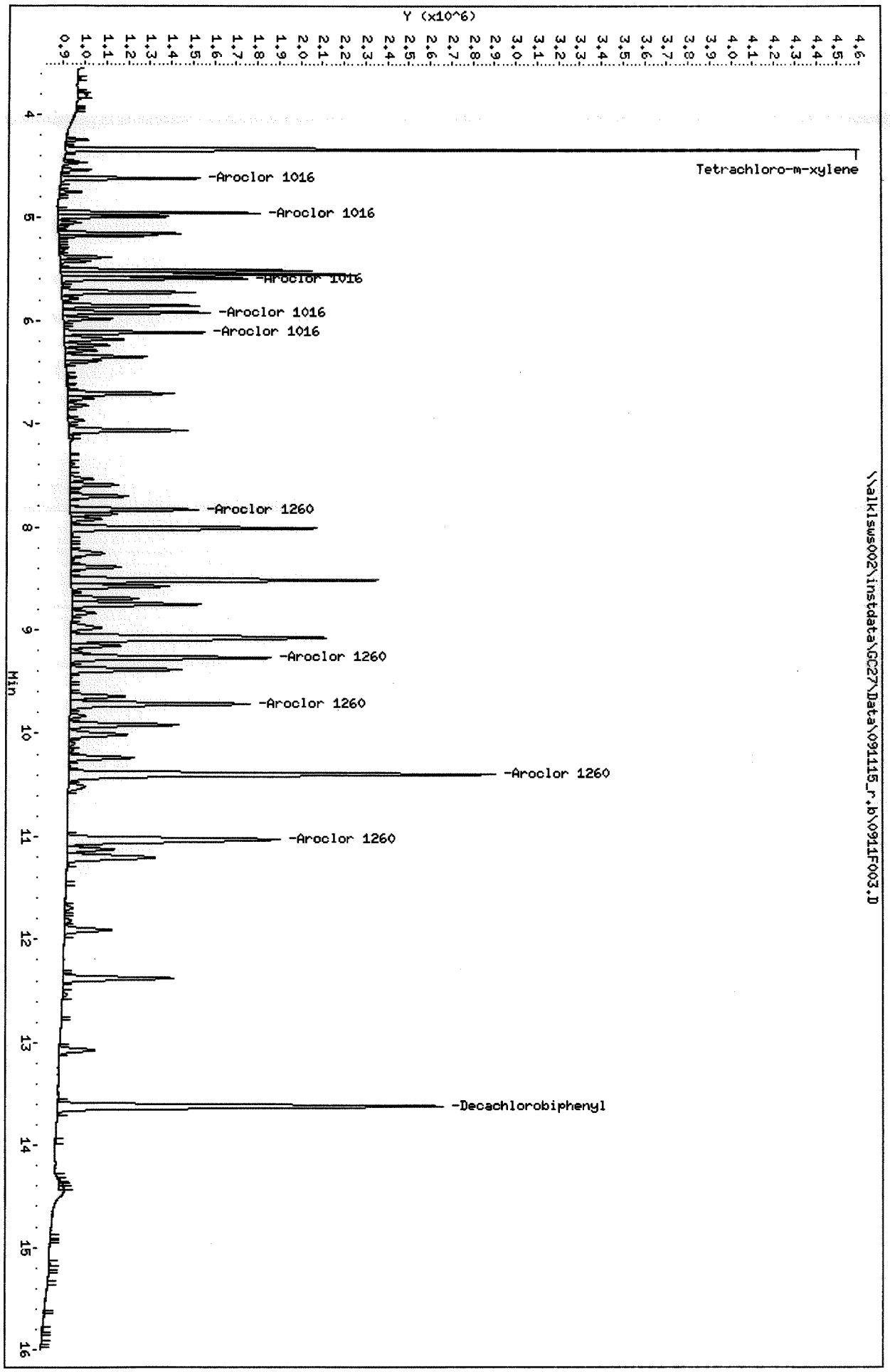
Column phase: DB-35MS

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E
Column phase: DB-XLB

Instrument: GC27.i
Operator: SHURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F004.D
Lab ID: KWG1508799-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 18:10
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Printed: 09/15/2015 08:54:30
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F004.D
Lab ID: KWG1508799-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 18:10
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dial

Primary Review: MR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:54:34
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		16351	0	0.0920	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	12.25	13.61	19398	5110	0.1230	0.0620			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	1.66			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}		4.98	0	4853	0.0000	1.99			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}		5.96	0	3305	0.0000	1.51			
Aroclor 1016 {5}		6.11	0	3175	0.0000	1.47			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	6.49			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}		4.98	0	4853	0.0000	4.86			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}		5.47	0	16250	0.0000	10.59			
Aroclor 1232 {5}		5.96	0	3305	0.0000	4.01			
Aroclor 1242			0	0	3.40	2.64			
Aroclor 1242 {1}	4.51	4.98	8969	4853	1.50	2.67			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}	5.12	5.72	21354	5602	6.82	3.20			
Aroclor 1242 {4}	5.49	5.96	11117	3305	2.64	2.06			
Aroclor 1242 {5}	5.98		13093	0	2.65	0.0000			
Aroclor 1248			0	0	0.0000	3.21			
Aroclor 1248 {1}		4.98	0	4853	0.0000	3.90			
Aroclor 1248 {2}		5.47	0	16250	0.0000	6.30			
Aroclor 1248 {3}		5.96	0	3305	0.0000	1.11			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	6624	0.0000	1.55			
Aroclor 1254			0	0	6.28	1.39			
Aroclor 1254 {1}		6.70	0	2992	0.0000	0.8140			
Aroclor 1254 {2}	6.68	7.05	8554	6624	1.18	1.14			
Aroclor 1254 {3}	6.83	7.17	33366	2860	2.28	1.48			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}	7.74	8.76	97462	6703	15.39	2.14			
Aroclor 1260			0	0	1.67	0.0000			
Aroclor 1260 {1}	7.08		31132	0	3.16	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.11		24608	0	1.31	0.0000			
Aroclor 1260 {5}	9.89		7583	0	0.5350	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Inj Date : 11-SEP-2015 18:10
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	0.000	16351	0	0.0924	0.000		100.00
Aroclor 1016	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	1.99		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.958	0	3305	0.000	1.51		
	0.000	6.105	0	3175	0.000	1.47		
		Average of Peak Amounts =			0.000	1.66		
Aroclor 1232	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	4.86		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.468	0	16250	0.000	10.6		
	0.000	5.958	0	3305	0.000	4.01		
		Average of Peak Amounts =			0.000	6.49		
Aroclor 1242	4.511	4.975	8969	4853	1.50	2.67	80.00- 120.00	100.00(T)
	0.000	0.000					153.22- 229.83	0.00(T)
	5.115	5.718	21354	5602	6.82	3.19	37.98- 56.97	238.09(T)
	5.488	5.958	11117	3305	2.64	2.06	47.93- 71.89	123.95(T)
	5.981	0.000	13093		2.65		37.56- 56.34	145.98(T)
		Average of Peak Amounts =			3.40	2.64		
Aroclor 1248	0.000	4.975	0	4853	0.000	3.89		
	0.000	5.468	0	16250	0.000	6.30		
	0.000	5.958	0	3305	0.000	1.11		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.052	0	6624	0.000	1.55		
		Average of Peak Amounts =			0.000	3.21		
Aroclor 1254	0.000	6.695		2992		0.814	80.00- 120.00	100.00(T)
	6.675	7.052	8554	6624	1.18	1.14	1017.66-1526.49	0.00(T)
	6.831	7.168	33366	2860	2.28	1.48	9646.23-14469.35	0.00(T)
	0.000	0.000					50.19- 75.29	0.00(T)
	7.735	8.755	97462	6703	15.4	2.14	281.12- 421.67	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		6.29	1.39		
Aroclor 1260	7.075	0.000	31132	0	3.16	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.105	0.000	24608	0	1.31	0.000	169.11- 253.66	79.04(T)
	9.891	0.000	7583	0	0.535	0.000	131.16- 196.75	24.36(T)
			Average of Peak Amounts =		1.67	0.000		
Decachlorobiphenyl	12.251	13.612	19398	5110	0.123	0.0621		100.00
Aroclors, Total	0.000	0.000	81201	29053	11.4	15.4		0.00

QC Flag Legend

T - Target compound detected outside RT window.

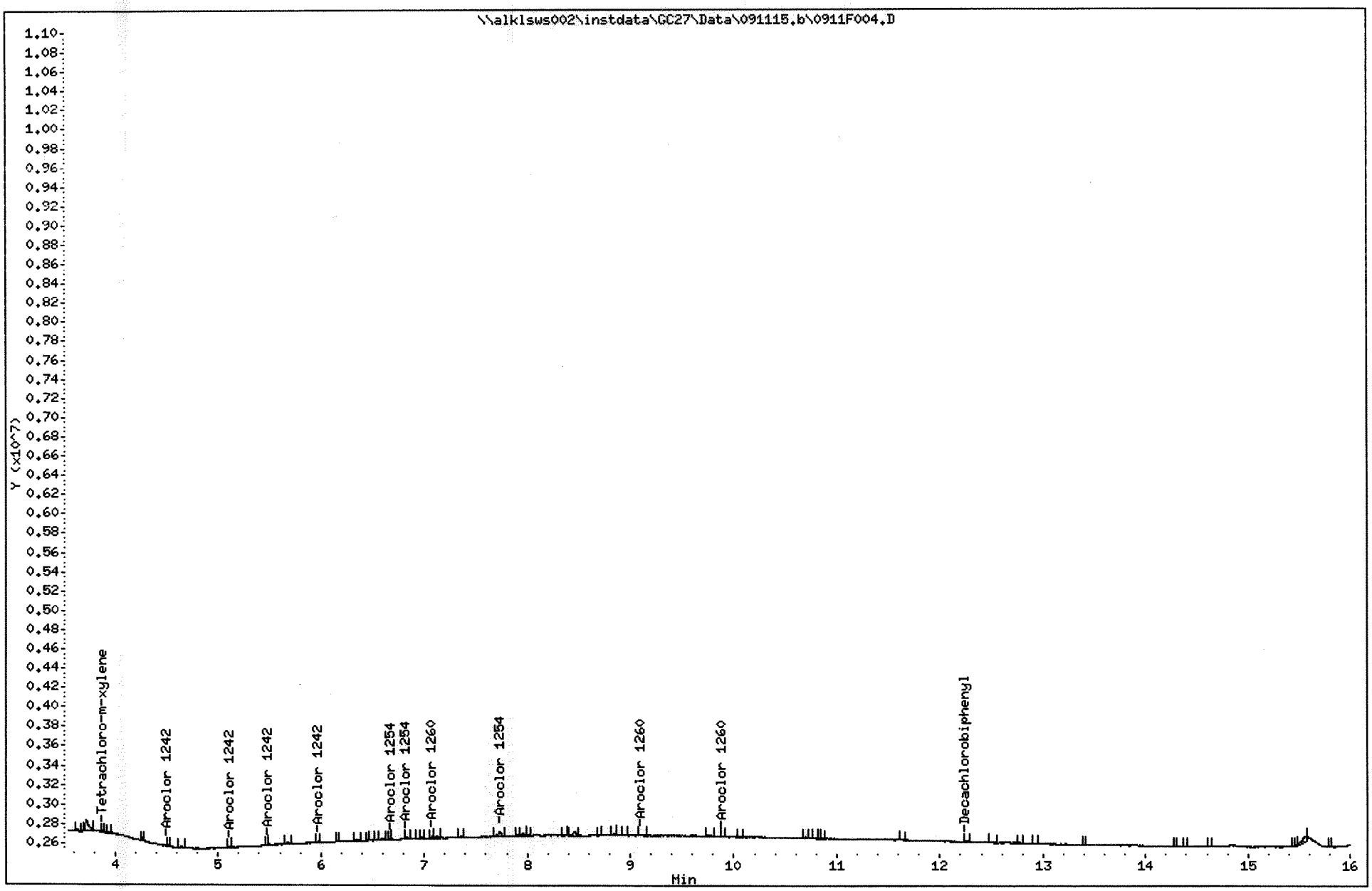
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32

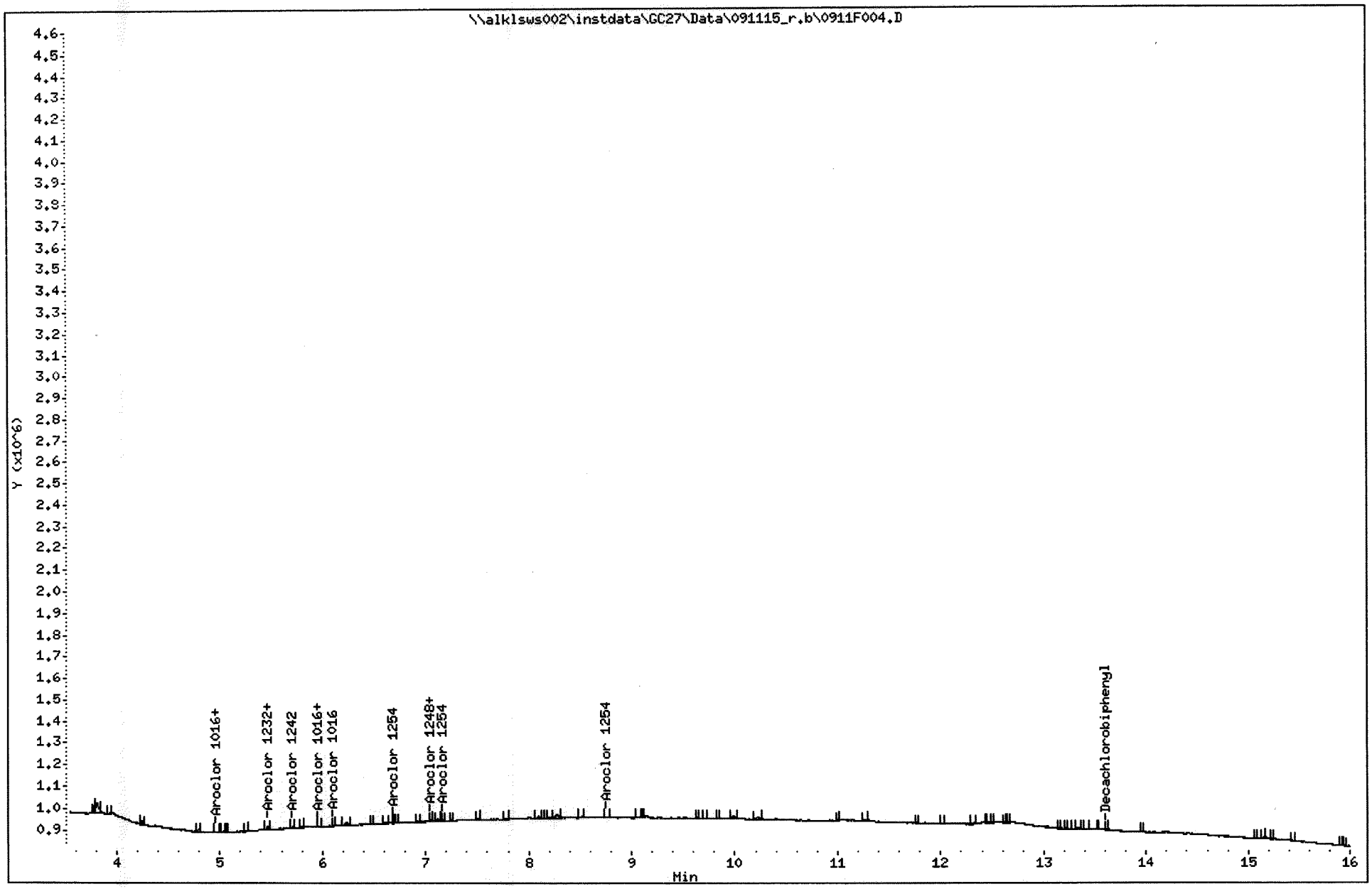


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D
Lab ID: KWG1508799-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:27
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV JL

Primary Review: MR 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D
Lab ID: KWG1508799-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:27
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JQ Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D			**Vial:**	1
Acqu Date:	09/11/2015 22:27	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	10883119	3995108	61.48	50.79			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.27	13.63	9149411	4343484	57.86	52.74			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	516.91	434.58			
Aroclor 1016 {1}	4.24	4.62	1984741	819658	553.01	445.92			
Aroclor 1016 {2}	4.74	4.96	1588603	1095769	530.23	450.09			
Aroclor 1016 {3}	4.94	5.59	5018614	1254774	507.39	418.36			
Aroclor 1016 {4}	5.21	5.92	2490088	946320	501.90	431.12			
Aroclor 1016 {5}	5.50	6.12	2546892	921472	492.02	427.40			
Aroclor 1260			0	0	518.80	559.20			
Aroclor 1260 {1}	7.08	7.83	4977981	1128798m	505.35	511.72			
Aroclor 1260 {2}	8.09	9.27	4215859	2037645m	519.59	539.08			
Aroclor 1260 {3}	8.65	9.72	4239469	2458022m	515.06	681.12			
Aroclor 1260 {4}	9.11	10.40	9703509	4572608m	516.18	529.58			
Aroclor 1260 {5}	9.90	11.03	7629749	2985373m	537.81	534.50			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D
Inj Date : 11-SEP-2015 22:27
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10883119	3995108	61.5	50.8		100.00
Aroclor 1016	4.239	4.619	1984741	819658	553	446	80.00- 120.00	100.00
	4.742	4.955	1588603	1095769	530	450	62.72- 94.08	80.04
	4.935	5.589	5018614	1254774	507	418	184.36- 276.53	252.86
	5.209	5.922	2490088	946320	502	431	95.63- 143.44	125.46
	5.502	6.119	2546892	921472	492	427	100.19- 150.28	128.32
		Average of Peak Amounts =			517	434		
Aroclor 1260	7.075	7.832	4977981	1128798	505	512	80.00- 120.00	100.00
	8.092	9.269	4215859	2037645	520	539	71.27- 106.90	84.69
	8.645	9.719	4239469	2458022	515	681	72.68- 109.02	85.16
	9.109	10.395	9703509	4572608	516	530	169.11- 253.66	194.93
	9.895	11.032	7629749	2985373	538	535	131.16- 196.75	153.27
		Average of Peak Amounts =			519	559		
Decachlorobiphenyl	12.265	13.625	9149411	4343484	57.9	52.7		100.00

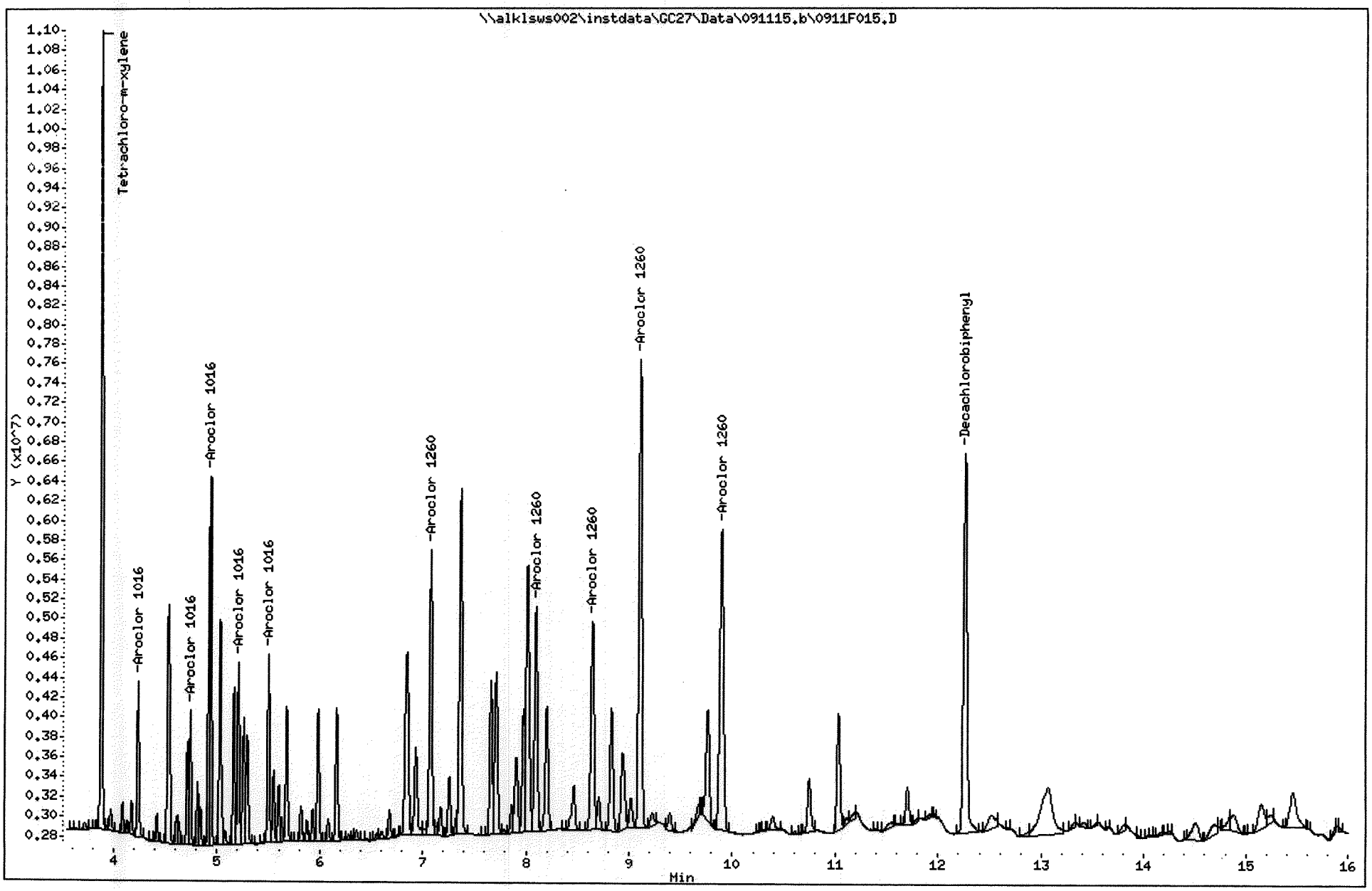
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



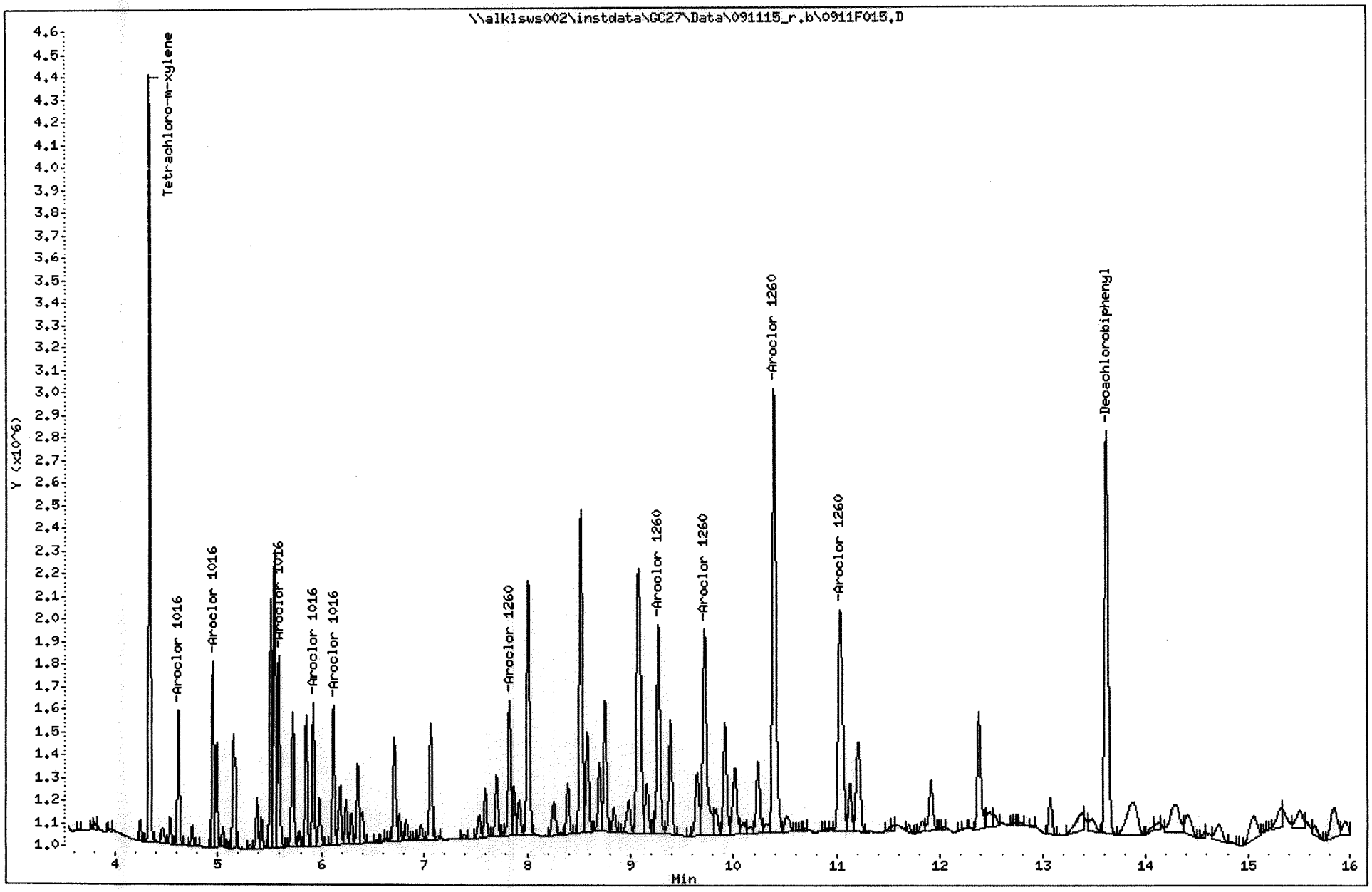
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F016.D
Lab ID: KWG1508799-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:50
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MMR 09/15/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F016.D
Lab ID: KWG1508799-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:50
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV &
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		21440	0	0.1210	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	12.26	13.62	11870	46296	0.0750	0.5620			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	3.51	0.0000			
Aroclor 1016 {1}	4.22		20035	0	5.58	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}	5.25		12158	0	2.45	0.0000			
Aroclor 1016 {5}	5.50		12885	0	2.49	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	3.90	3.72			
Aroclor 1248 {1}		4.92	0	3963	0.0000	3.18			
Aroclor 1248 {2}	5.25	5.47	12158	17679	2.79	6.86			
Aroclor 1248 {3}	5.69		46004	0	7.16	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}	6.28	7.05	8048	4803	1.74	1.13			
Aroclor 1254			0	0	3.77	4.95			
Aroclor 1254 {1}	6.28	6.72	8048	10116	2.07	2.75			
Aroclor 1254 {2}		7.05	0	4803	0.0000	0.8290			
Aroclor 1254 {3}		7.12	0	21820	0.0000	11.26			
Aroclor 1254 {4}	7.17		8074	0	0.8440	0.0000			
Aroclor 1254 {5}	7.74		53190	0	8.40	0.0000			
Aroclor 1260			0	0	1.32	0.0000			
Aroclor 1260 {1}	7.08		20647	0	2.10	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.10		7994	0	0.4250	0.0000			
Aroclor 1260 {5}	9.90		20540	0	1.45	0.0000			
Aroclor 1262			0	0	1.40	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.10		7994	0	0.3460	0.0000			
Aroclor 1262 {4}	9.90		20540	0	1.18	0.0000			
Aroclor 1262 {5}	11.01		22289	0	2.68	0.0000			
Aroclor 1268			0	0	0.8173	0.0000			
Aroclor 1268 {1}	9.77		41534	0	1.41	0.0000			
Aroclor 1268 {2}	9.90		20540	0	0.8060	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}	11.72		14955	0	0.2390	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Inj Date : 11-SEP-2015 22:50
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	0.000	21440	0	0.121	0.000		100.00
Aroclor 1016	4.222	0.000	20035	0	5.58	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	62.72- 94.08	0.00(T)
	0.000	0.000	0	0	0.000	0.000	184.36- 276.53	0.00(T)
	5.252	0.000	12158	0	2.45	0.000	95.63- 143.44	60.68(T)
	5.499	0.000	12885	0	2.49	0.000	100.19- 150.28	64.31(T)
		Average of Peak Amounts =			3.51	0.000		
Aroclor 1248	0.000	4.922		3963		3.18	80.00- 120.00	100.00(T)
	5.252	5.466	12158	17679	2.79	6.85	17.18- 25.77	0.00(T)
	5.685	0.000	46004		7.16		19.47- 29.21	0.00(T)
	0.000	0.000					161.29- 241.93	0.00(T)
	6.275	7.049	8048	4803	1.74	1.13	0.69- 1.04	0.00(T)
		Average of Peak Amounts =			3.90	3.72		
Aroclor 1254	6.275	6.716	8048	10116	2.07	2.75	80.00- 120.00	100.00(T)
	0.000	7.049		4803		0.829	126.24- 189.36	47.48(T)
	0.000	7.122		21820		11.3	43.97- 65.96	215.70(T)
	7.172	0.000	8074		0.844		1126.72-1690.08	100.32(T)
	7.735	0.000	53190		8.40		281.12- 421.67	660.91(T)
		Average of Peak Amounts =			3.77	4.96		
Aroclor 1260	7.075	0.000	20647	0	2.10	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.095	0.000	7994	0	0.425	0.000	169.11- 253.66	38.72(T)
	9.899	0.000	20540	0	1.45	0.000	131.16- 196.75	99.48(T)
		Average of Peak Amounts =			1.33	0.000		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	0.000	0.000	0	0	0.000	0.000	81.49- 122.24	0.00(T)
	9.095	0.000	7994	0	0.346	0.000	185.52- 278.29	0.00(T)
	9.899	0.000	20540	0	1.18	0.000	145.56- 218.35	0.00(T)
	11.012	0.000	22289	0	2.68	0.000	49.79- 74.69	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			1.40	0.000		
Aroclor 1268	9.765	0.000	41534	0	1.41	0.000	80.00- 120.00	100.00(T)
	9.899	0.000	20540	0	0.806	0.000	261.97- 392.95	49.45(T)
	0.000	0.000	0	0	0.000	0.000	12.86- 19.30	0.00(T)
	11.719	0.000	14955	0	0.239	0.000	30.73- 46.09	36.01(T)
		Average of Peak Amounts =			0.818	0.000		
Decachlorobiphenyl	12.259	13.619	11870	46296	0.0751	0.562		100.00
Aroclors, Total	0.000	0.000	119211	21061	14.7	8.67		0.00

QC Flag Legend

T - Target compound detected outside RT window.

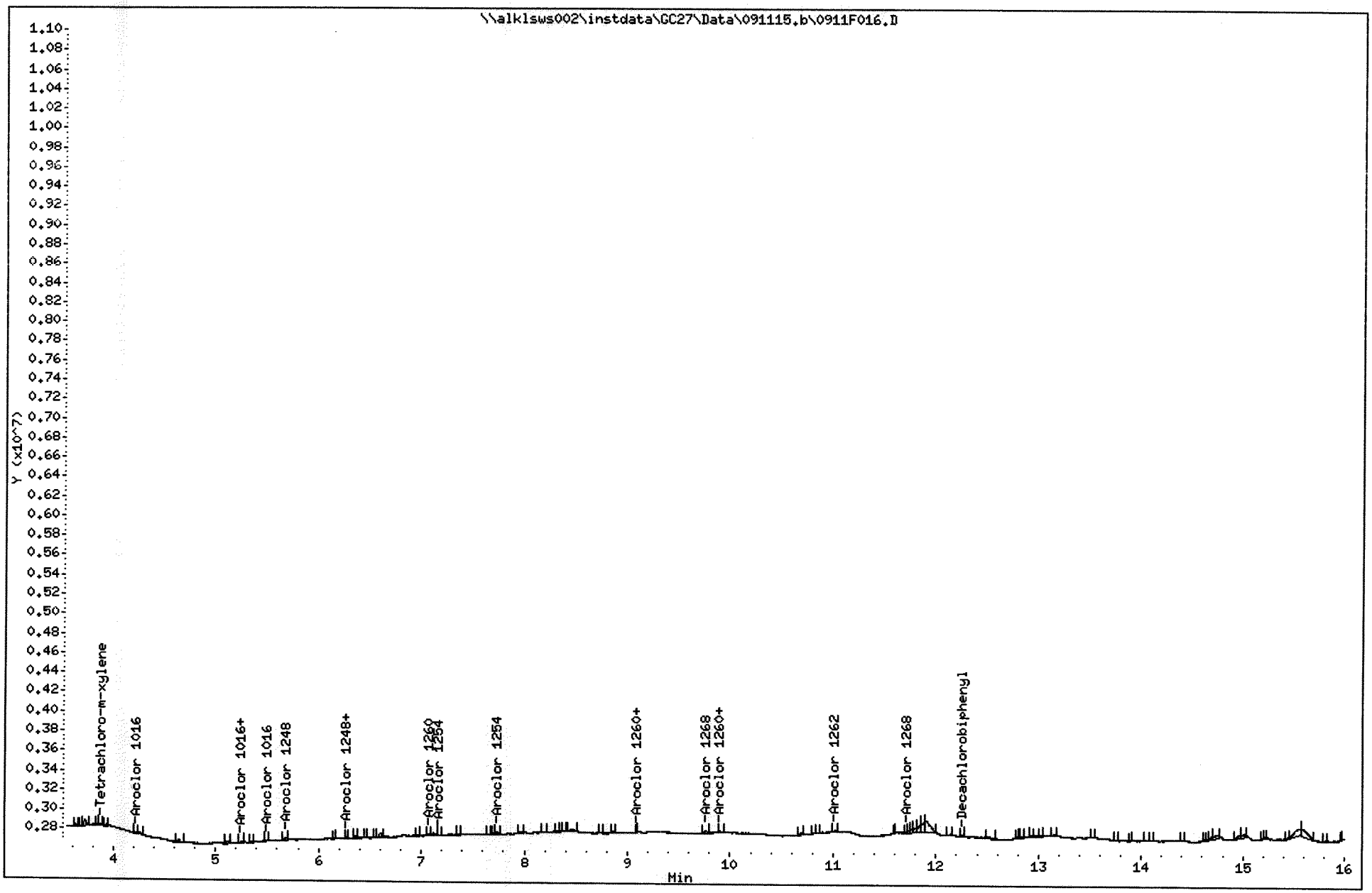
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



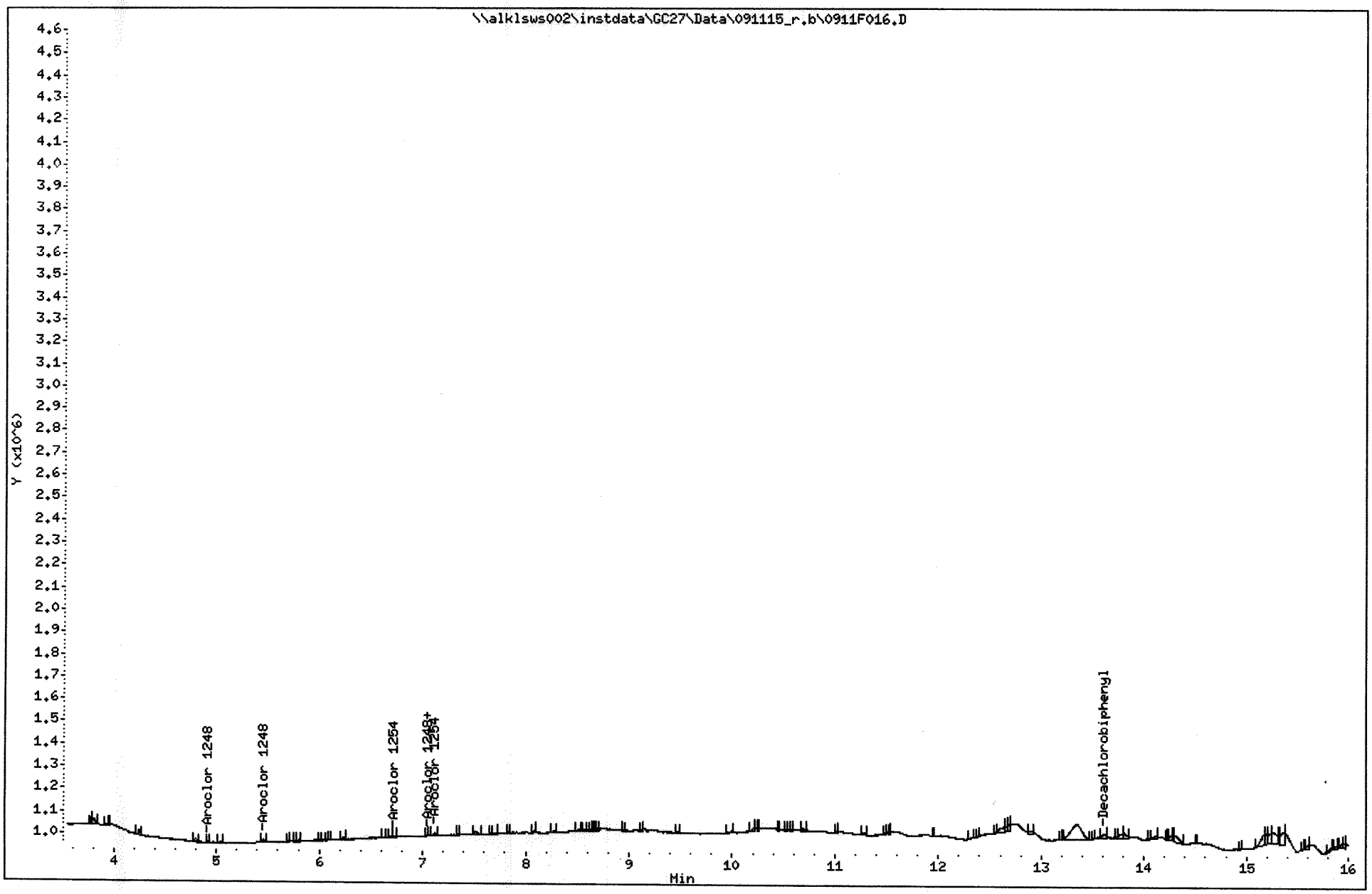
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D
Lab ID: KWG1508799-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:16
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D
Lab ID: KWG1508799-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:16
Date Quantitated: 09/15/2015 08:13
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F030.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D			**Vial:**	1
Acqu Date:	09/12/2015 04:16	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	10375746	4552348	58.61	57.88			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8513471	4381836	53.84	53.21			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	469.65	470.89			
Aroclor 1016 {1}	4.24	4.62	1869390	901564	520.87	490.48			
Aroclor 1016 {2}	4.74	4.96	1465598	1208847	489.17	496.53			
Aroclor 1016 {3}	4.94	5.59	4307926	1353660	435.54	451.34			
Aroclor 1016 {4}	5.21	5.92	2234569	1008947	450.40	459.65			
Aroclor 1016 {5}	5.50	6.12	2341136	984108	452.27	456.45			
Aroclor 1260			0	0	498.64	516.10			
Aroclor 1260 {1}	7.08	7.84	4535536	1071384m	460.43	485.69			
Aroclor 1260 {2}	8.10	9.27	4040571	1958562m	497.99	518.16			
Aroclor 1260 {3}	8.65	9.72	4120709	1876166m	500.63	519.88			
Aroclor 1260 {4}	9.11	10.40	9587291	4574126m	510.00	529.75			
Aroclor 1260 {5}	9.89	11.03	7436293	2943558m	524.17	527.02			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D
Inj Date : 12-SEP-2015 04:16
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10375746	4552348	58.6	57.9		100.00
Aroclor 1016	4.238	4.622	1869390	901564	521	490	80.00- 120.00	100.00
	4.742	4.955	1465598	1208847	489	497	62.72- 94.08	78.40
	4.938	5.592	4307926	1353660	436	451	184.36- 276.53	230.45
	5.208	5.922	2234569	1008947	450	460	95.63- 143.44	119.53
	5.502	6.119	2341136	984108	452	456	100.19- 150.28	125.24
		Average of Peak Amounts =			470	471		
Aroclor 1260	7.075	7.835	4535536	1071384	460	486	80.00- 120.00	100.00
	8.095	9.269	4040571	1958562	498	518	71.27- 106.90	89.09
	8.645	9.719	4120709	1876166	501	520	72.68- 109.02	90.85
	9.112	10.395	9587291	4574126	510	530	169.11- 253.66	211.38
	9.892	11.032	7436293	2943558	524	527	131.16- 196.75	163.96
		Average of Peak Amounts =			499	516		
Decachlorobiphenyl	12.262	13.622	8513471	4381836	53.8	53.2		100.00

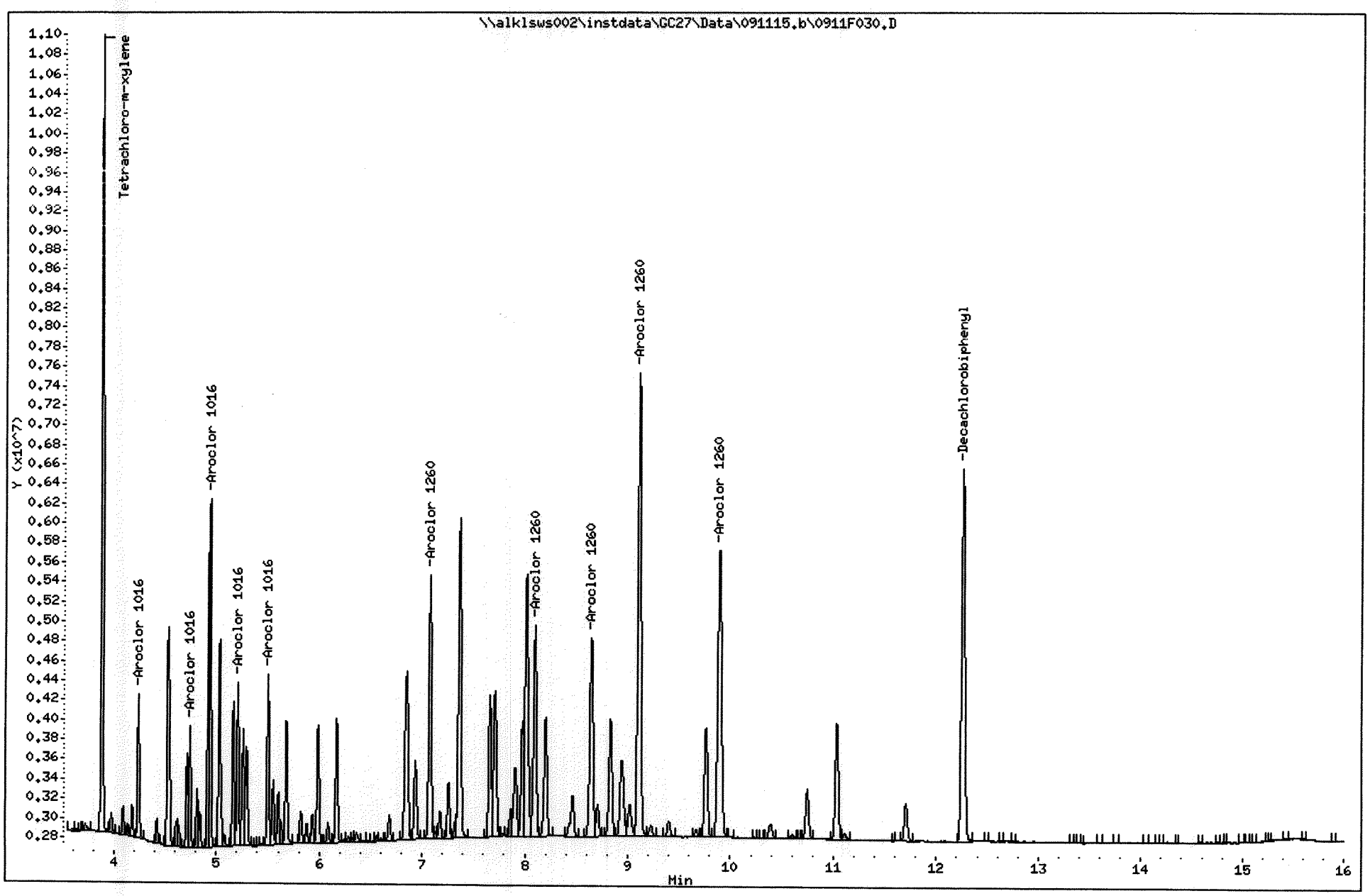
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



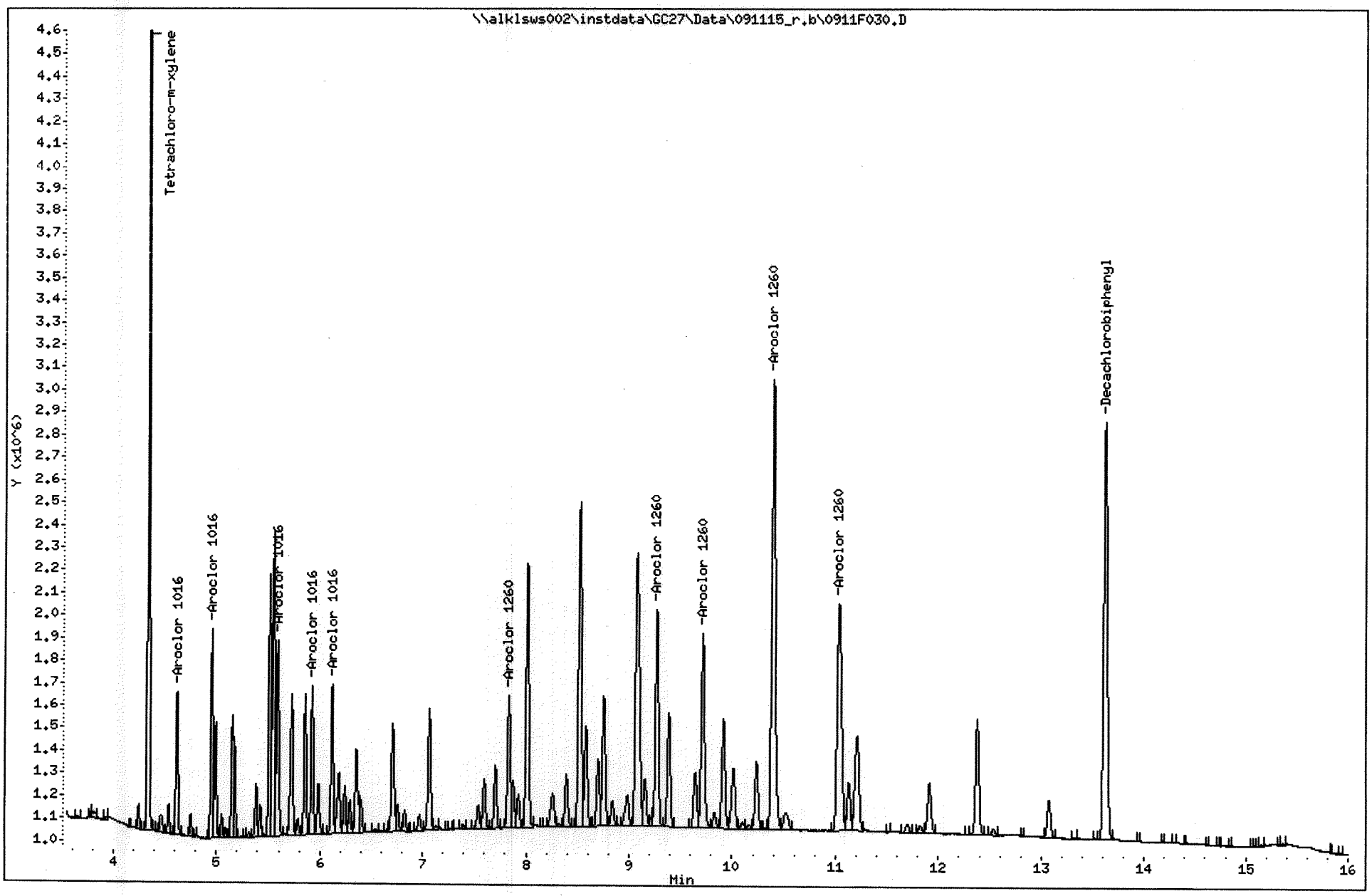
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JOU dk

Primary Review: MR 09/15/15

Secondary Review: [signature]

Printed: 09/15/2015 08:58:30
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:13
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV OK
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	24861	3851	0.1400	0.0490			NA
			%Recovery =		NA	NA	Limits =	44-130	
Decachlorobiphenyl	0.00	13.63	0	7909		0.0960			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	1.91			
Aroclor 1242 {1}		4.97	0	4296	0.0000	2.37			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}		5.54	0	4470	0.0000	1.36			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}		6.80	0	4079	0.0000	2.02			
Aroclor 1248			0	0	0.0000	2.61			
Aroclor 1248 {1}		4.97	0	4296	0.0000	3.45			
Aroclor 1248 {2}		5.54	0	4470	0.0000	1.73			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	11280	0.0000	2.64			
Aroclor 1254			0	0	0.0000	5.45			
Aroclor 1254 {1}		6.73	0	7027	0.0000	1.91			
Aroclor 1254 {2}		7.05	0	11280	0.0000	1.95			
Aroclor 1254 {3}		7.11	0	30526	0.0000	15.76			
Aroclor 1254 {4}		8.01	0	4971	0.0000	2.19			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.2757			
Aroclor 1268 {1}		11.02	0	3497	0.0000	0.2700			
Aroclor 1268 {2}		11.25	0	3424	0.0000	0.3130			
Aroclor 1268 {3}		11.70	0	3543	0.0000	0.3710			
Aroclor 1268 {4}		13.10	0	4252	0.0000	0.1490			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Inj Date : 12-SEP-2015 04:39
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	24861	3851	0.140	0.0490		100.00
Aroclor 1242	0.000	4.967	0	4296	0.000	2.36		
	0.000	5.541	0	4470	0.000	1.36		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.804	0	4079	0.000	2.02		
		Average of Peak Amounts =			0.000	1.91		
Aroclor 1248	0.000	4.967	0	4296	0.000	3.45		
	0.000	5.541	0	4470	0.000	1.73		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.047	0	11280	0.000	2.64		
		Average of Peak Amounts =			0.000	2.61		
Aroclor 1254	0.000	6.727	0	7027	0.000	1.91		
	0.000	7.047	0	11280	0.000	1.95		
	0.000	7.114	0	30526	0.000	15.8		
	0.000	8.007	0	4971	0.000	2.19		
	0.000	0.000	0	0	0.000	0.000		
		Average of Peak Amounts =			0.000	5.46		
Aroclor 1268	0.000	11.024	0	3497	0.000	0.270		
	0.000	11.247	0	3424	0.000	0.313		
	0.000	11.701	0	3543	0.000	0.371		
	0.000	13.097	0	4252	0.000	0.149		
		Average of Peak Amounts =			0.000	0.276		
Decachlorobiphenyl	0.000	13.627	0	7909	0.000	0.0960		
Aroclors, Total	0.000	0.000	0	28093	0.000	10.3		

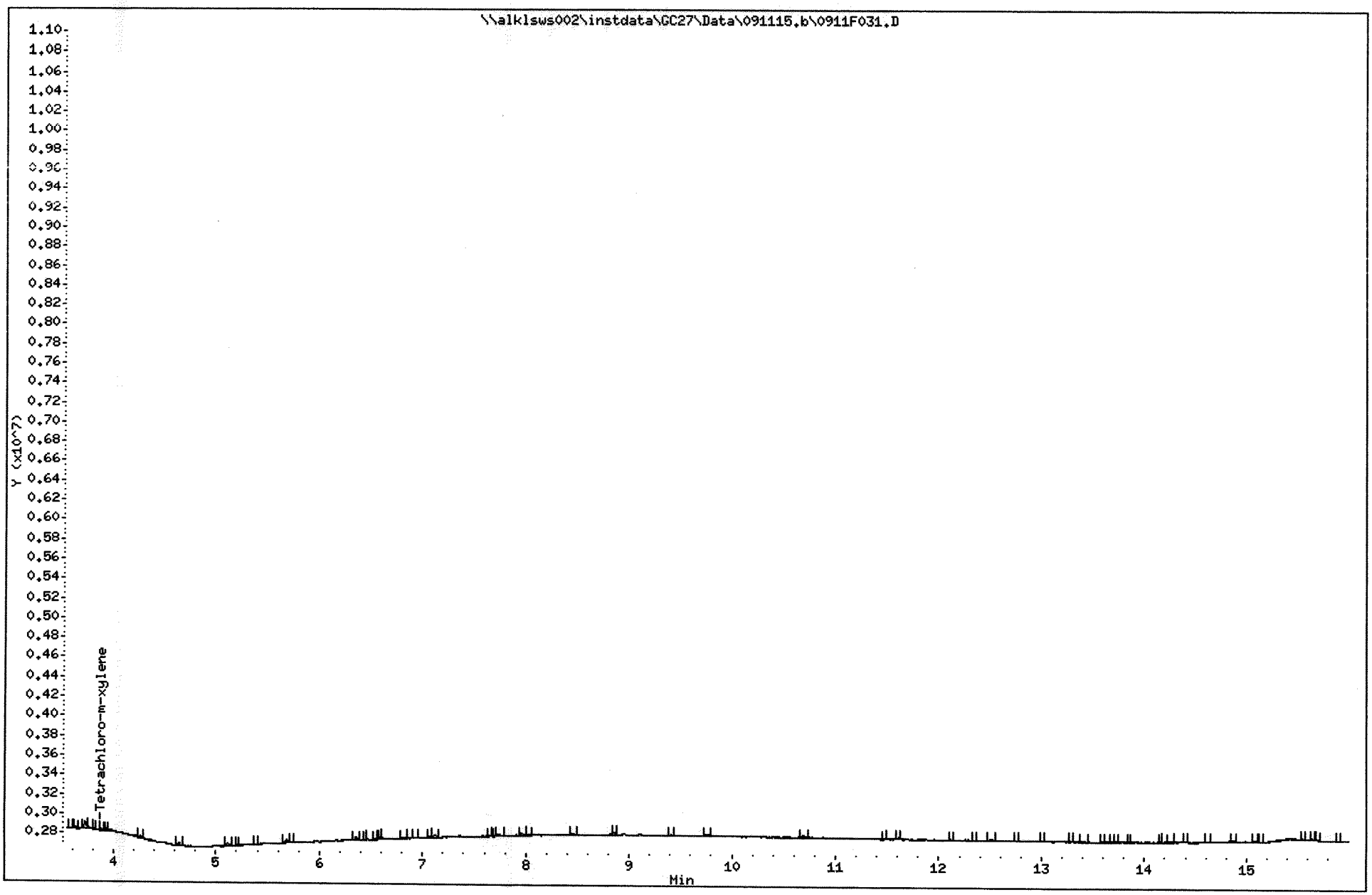
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



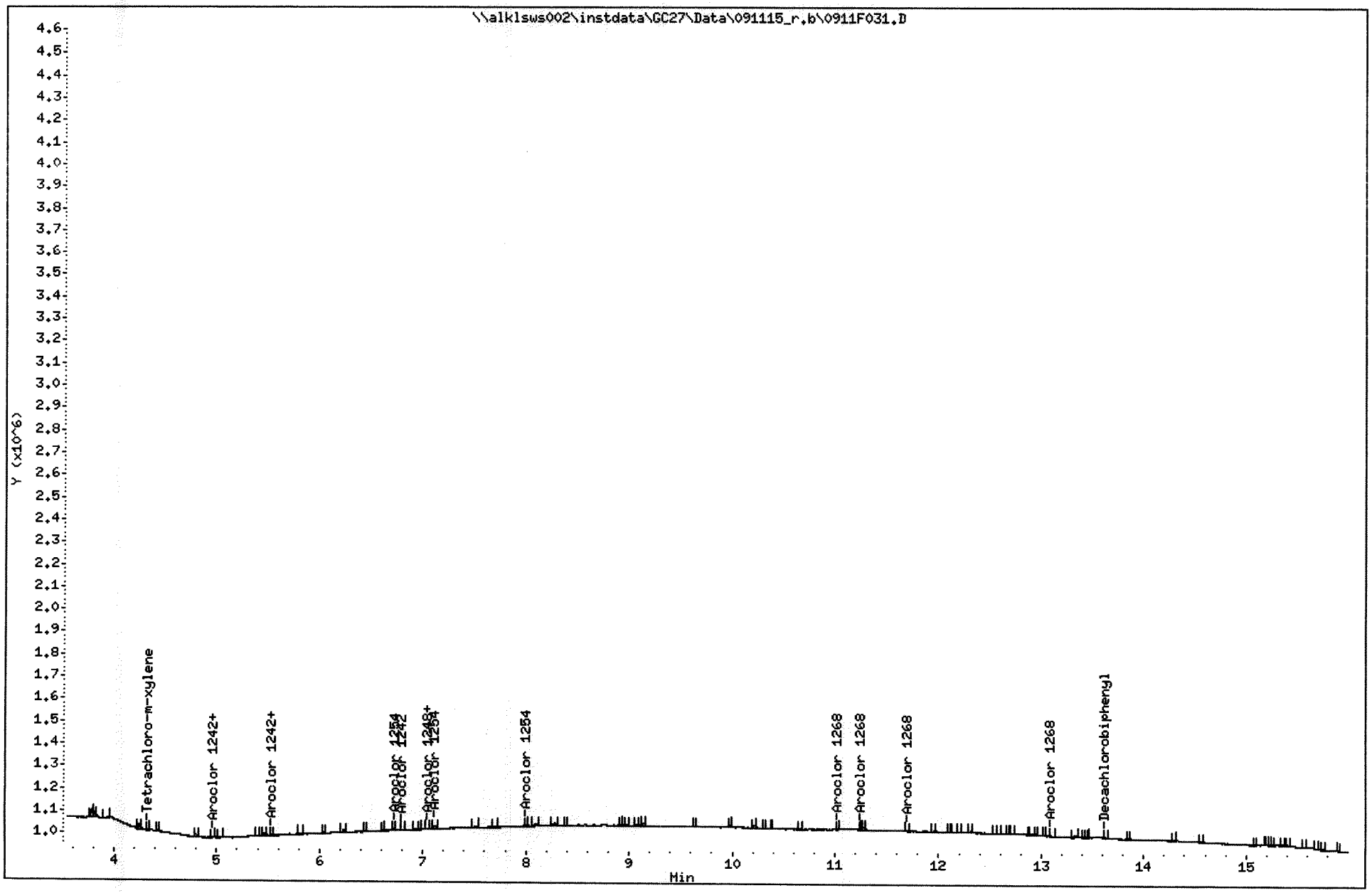
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Page: 1

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *↓	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ -20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

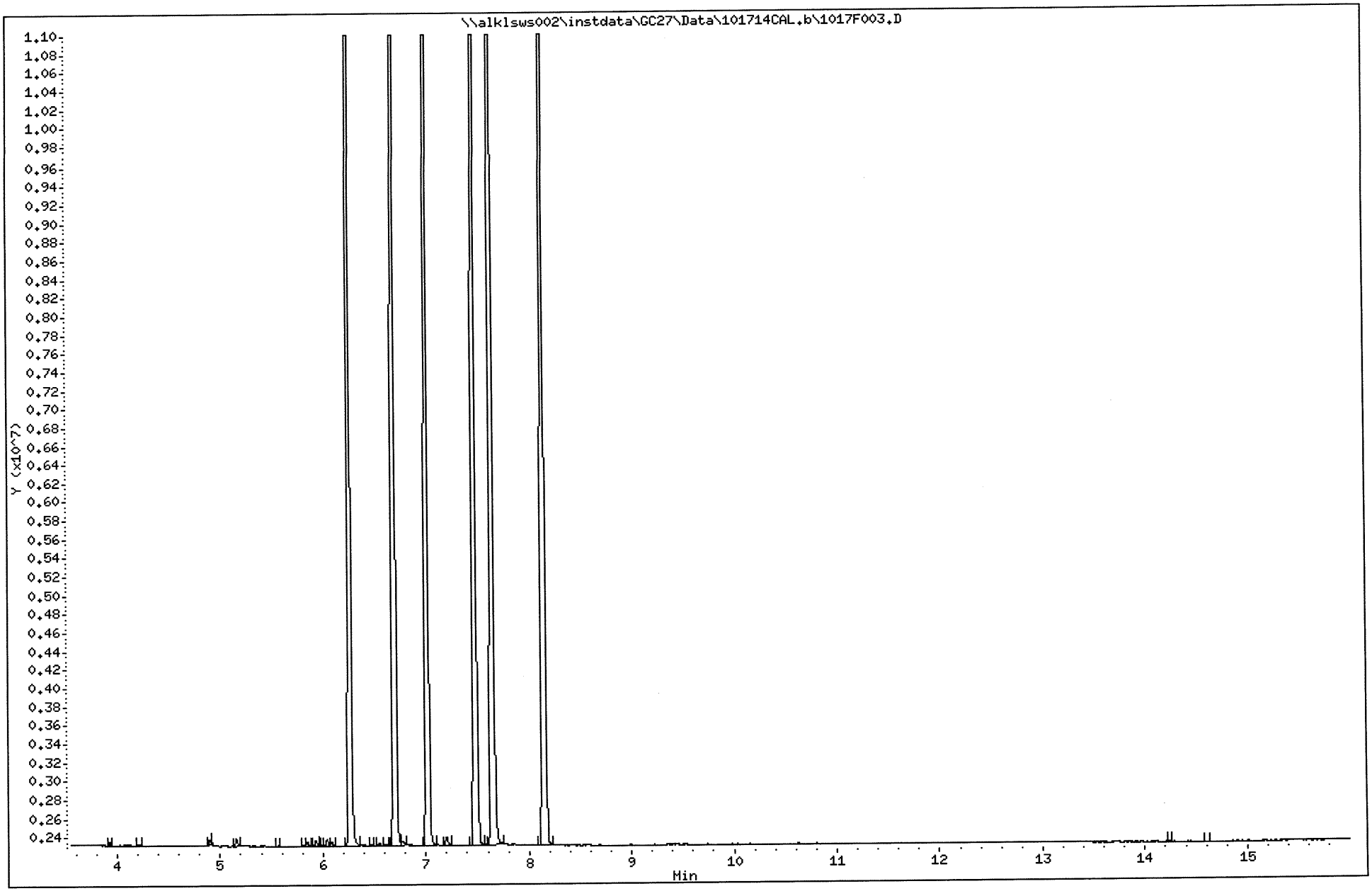
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



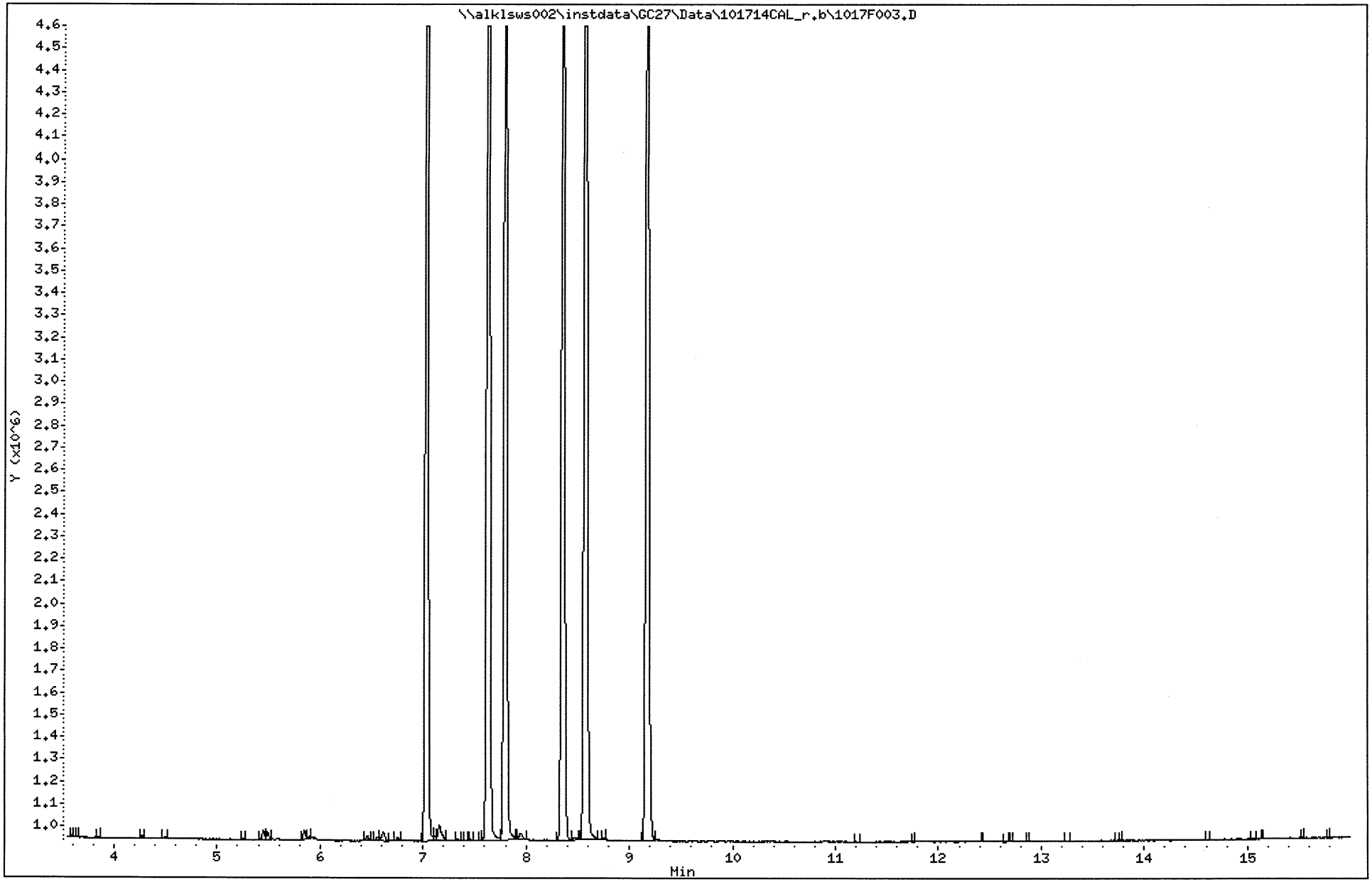
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

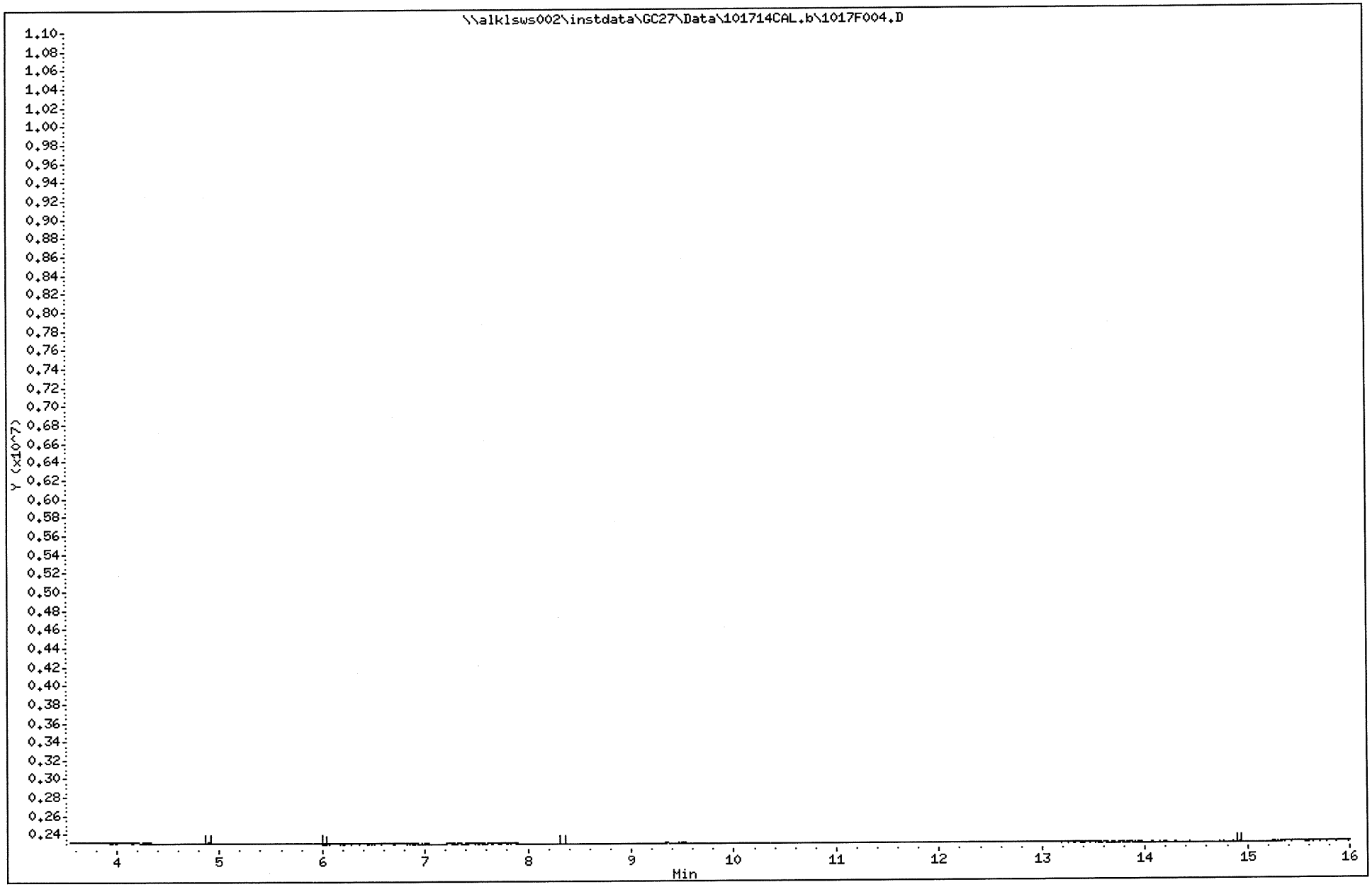
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



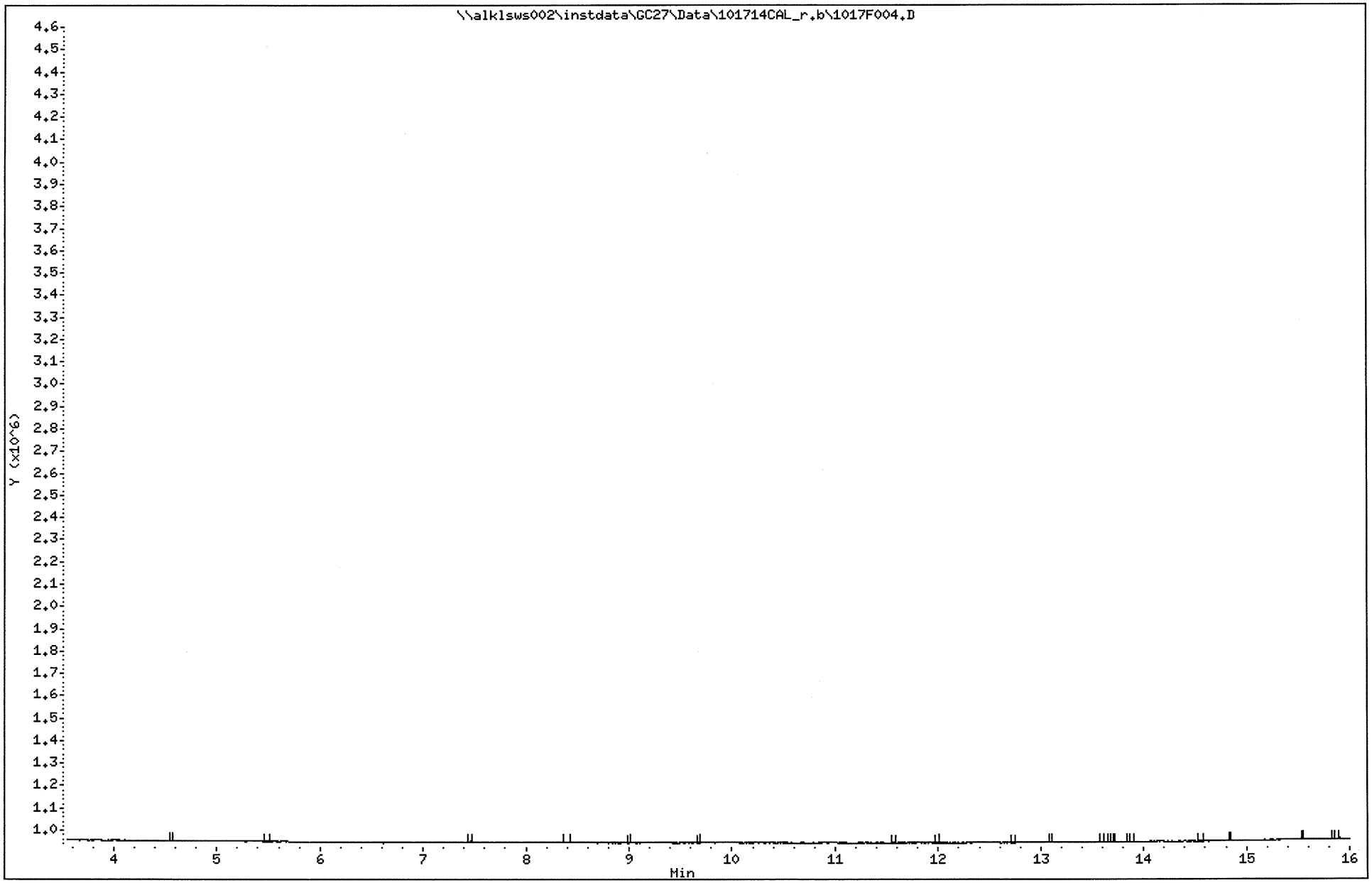
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

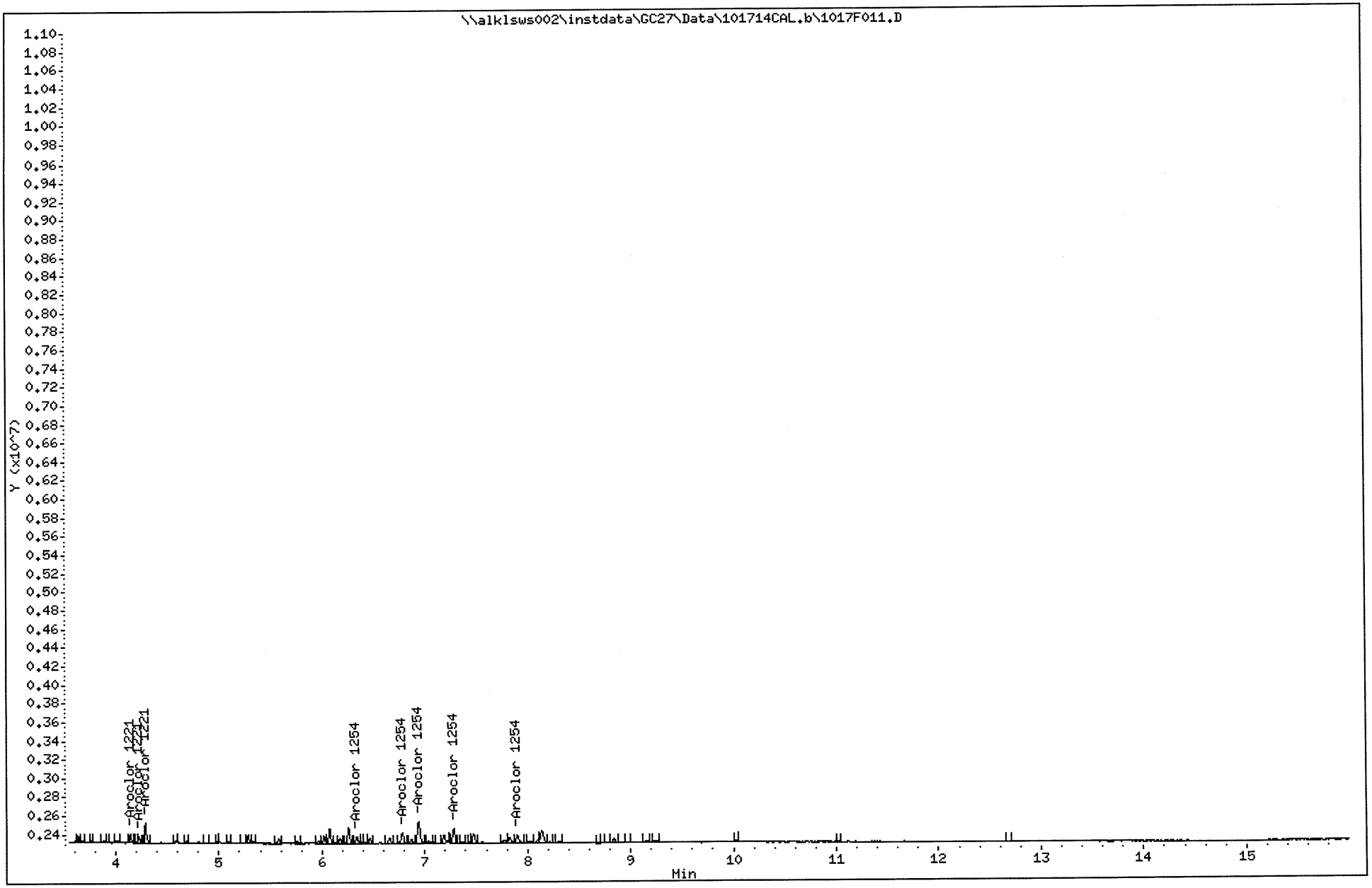
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

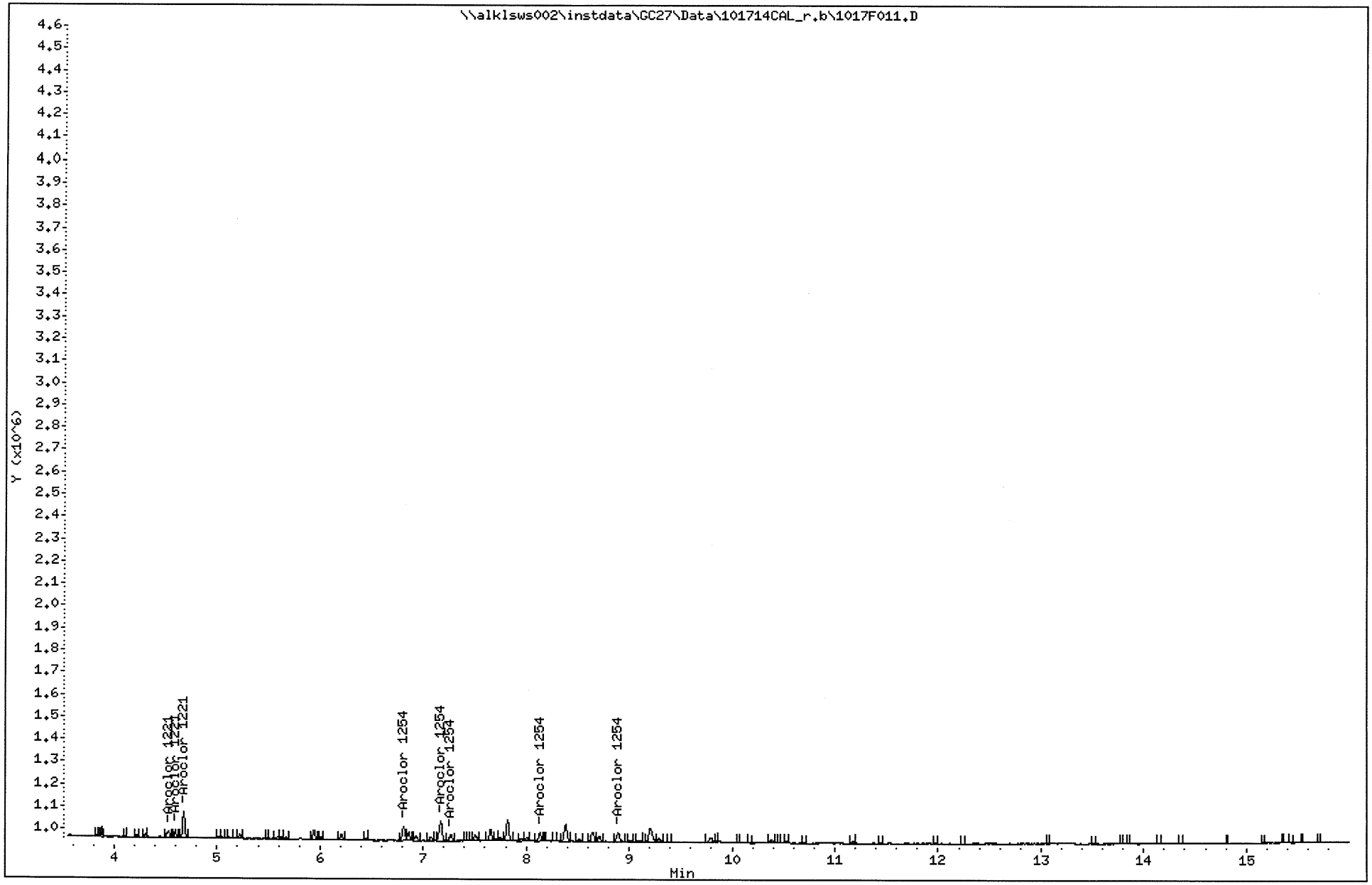


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

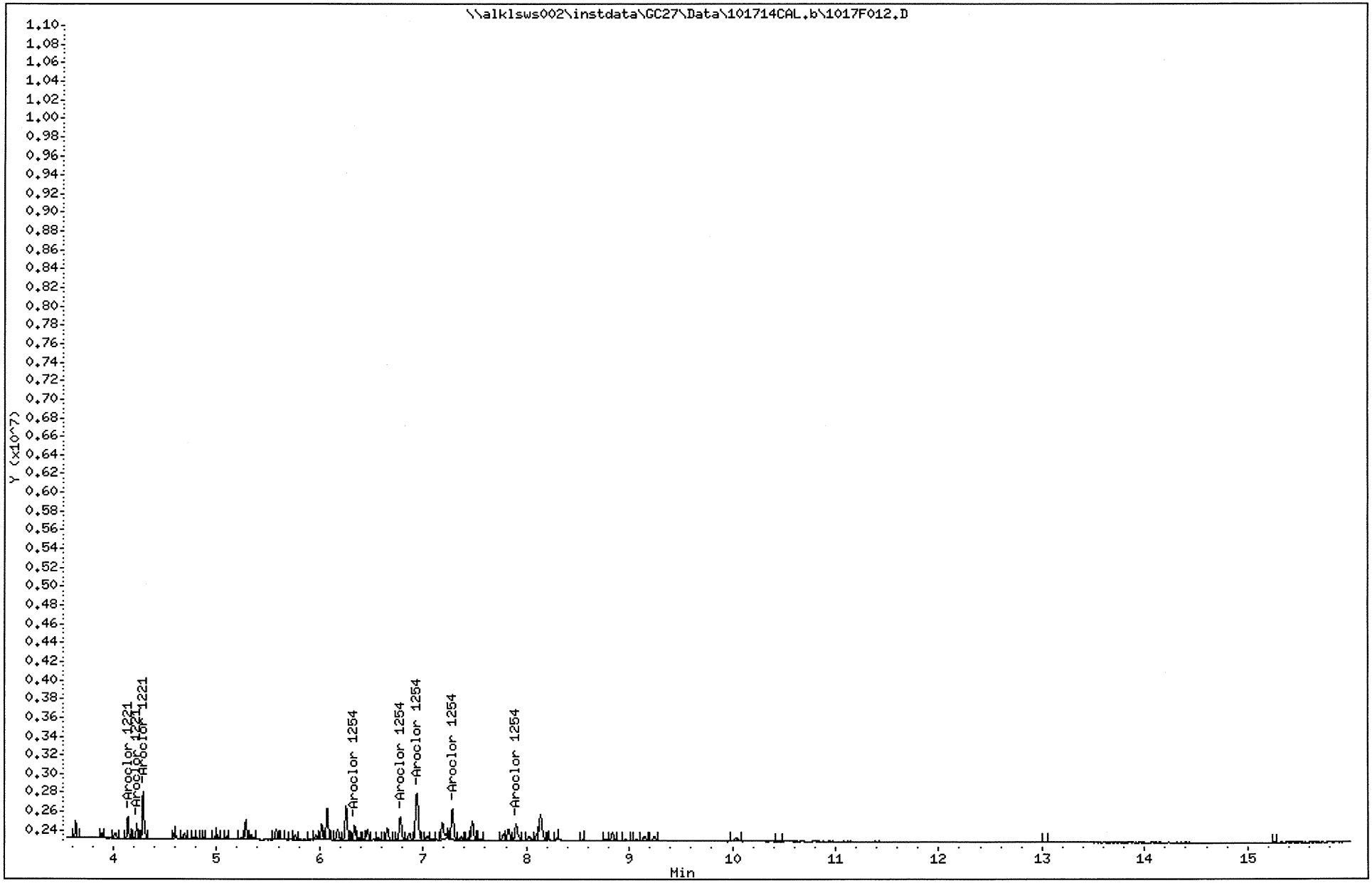
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



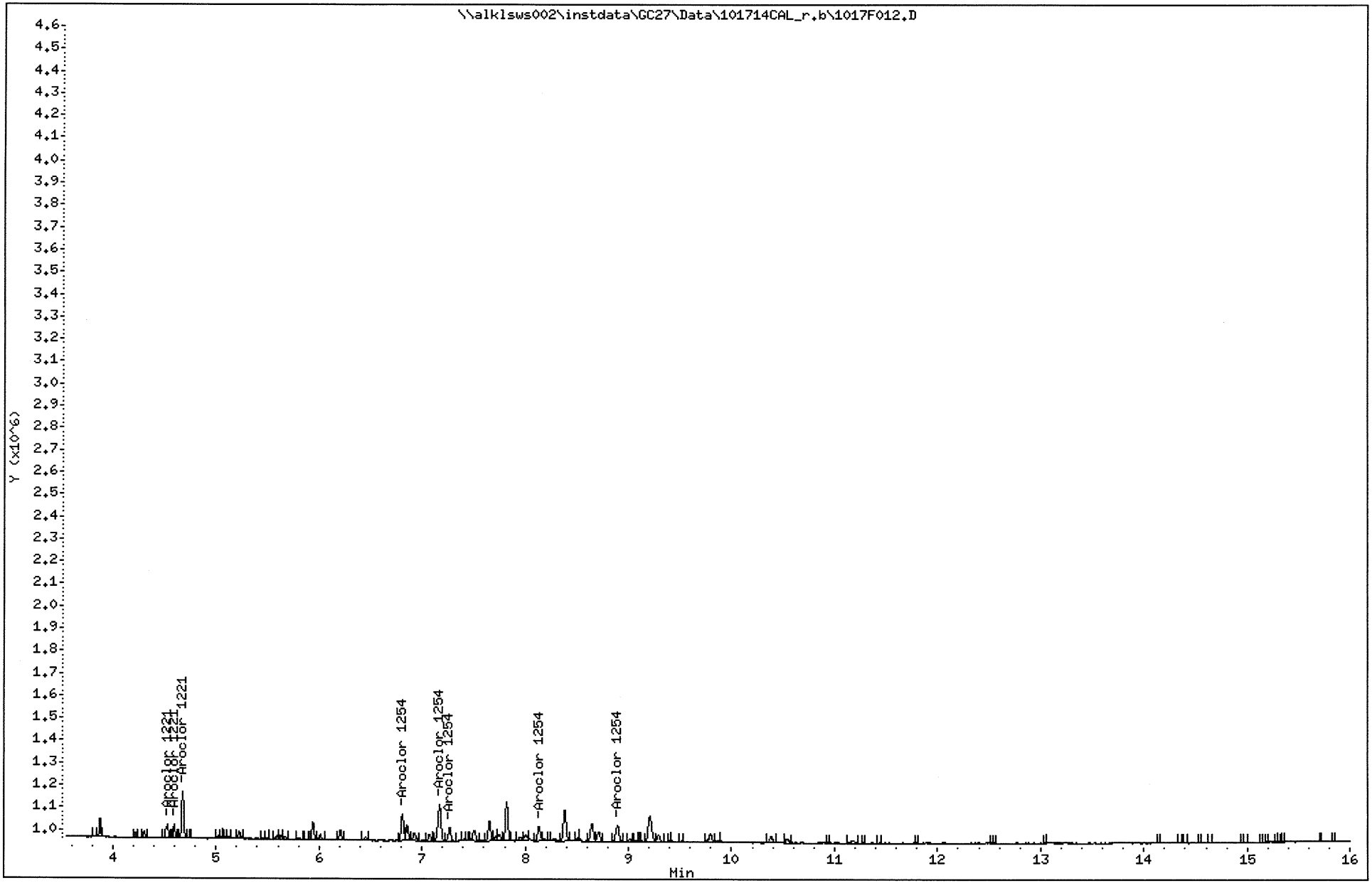
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

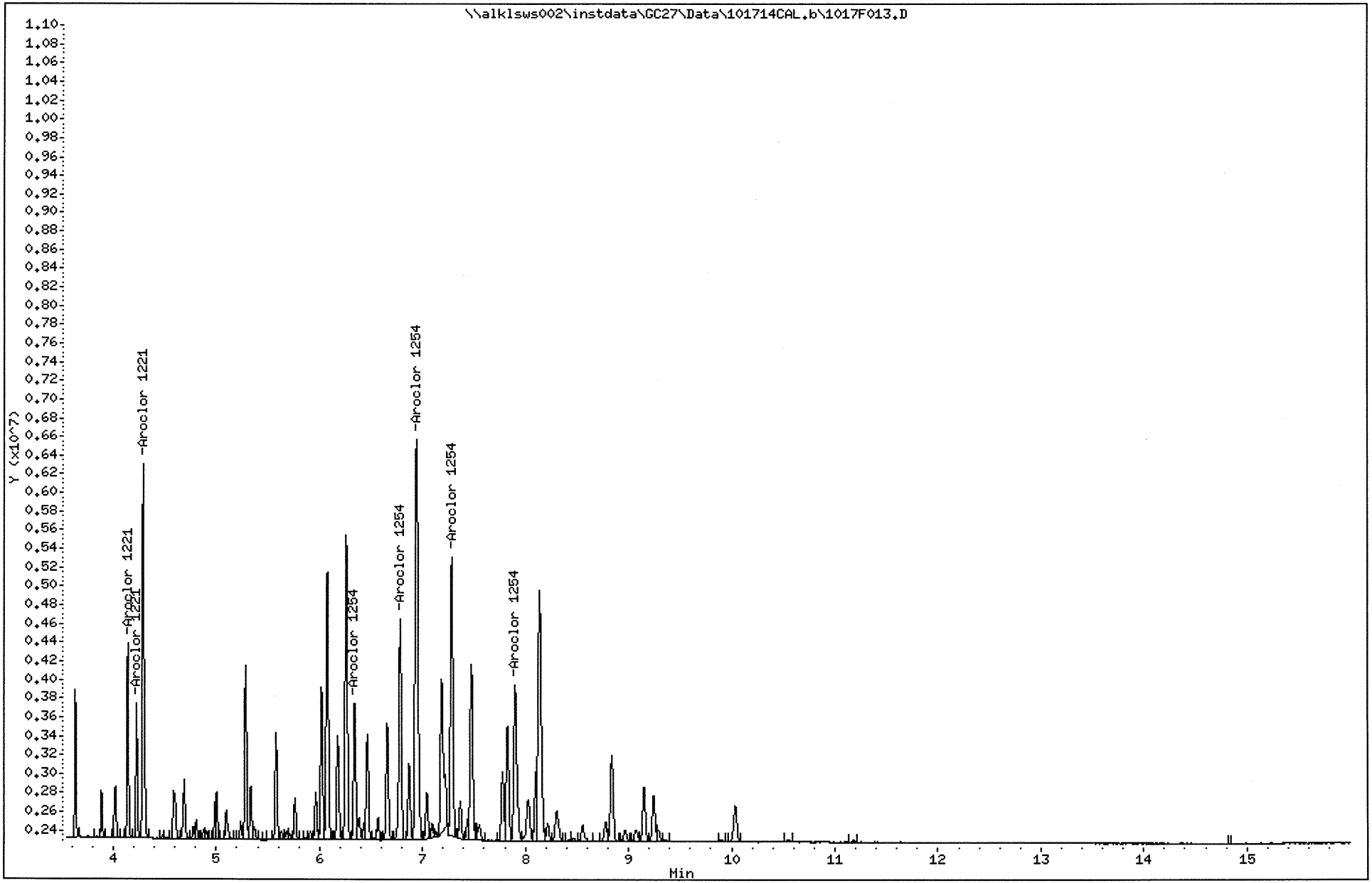
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

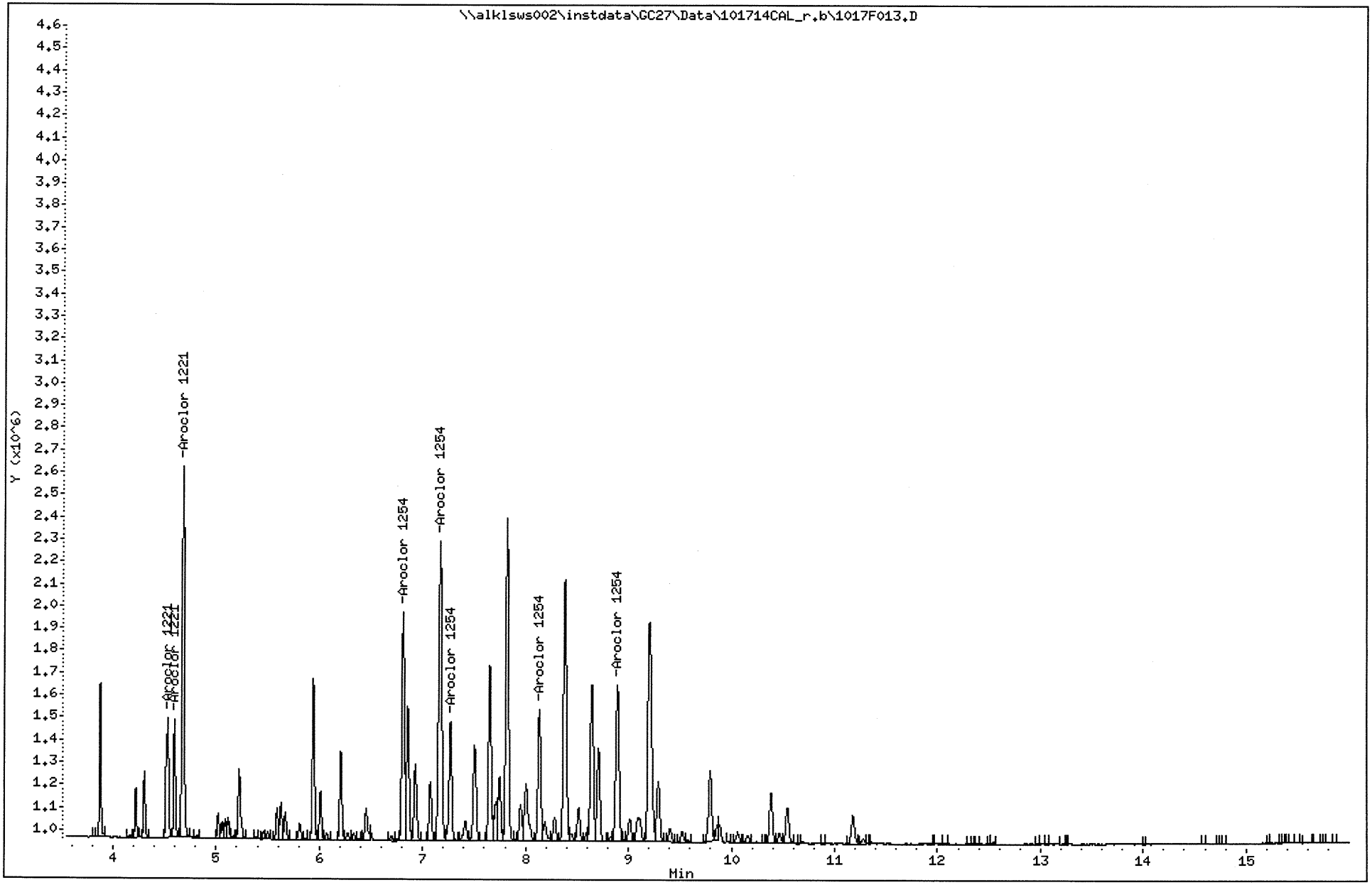


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

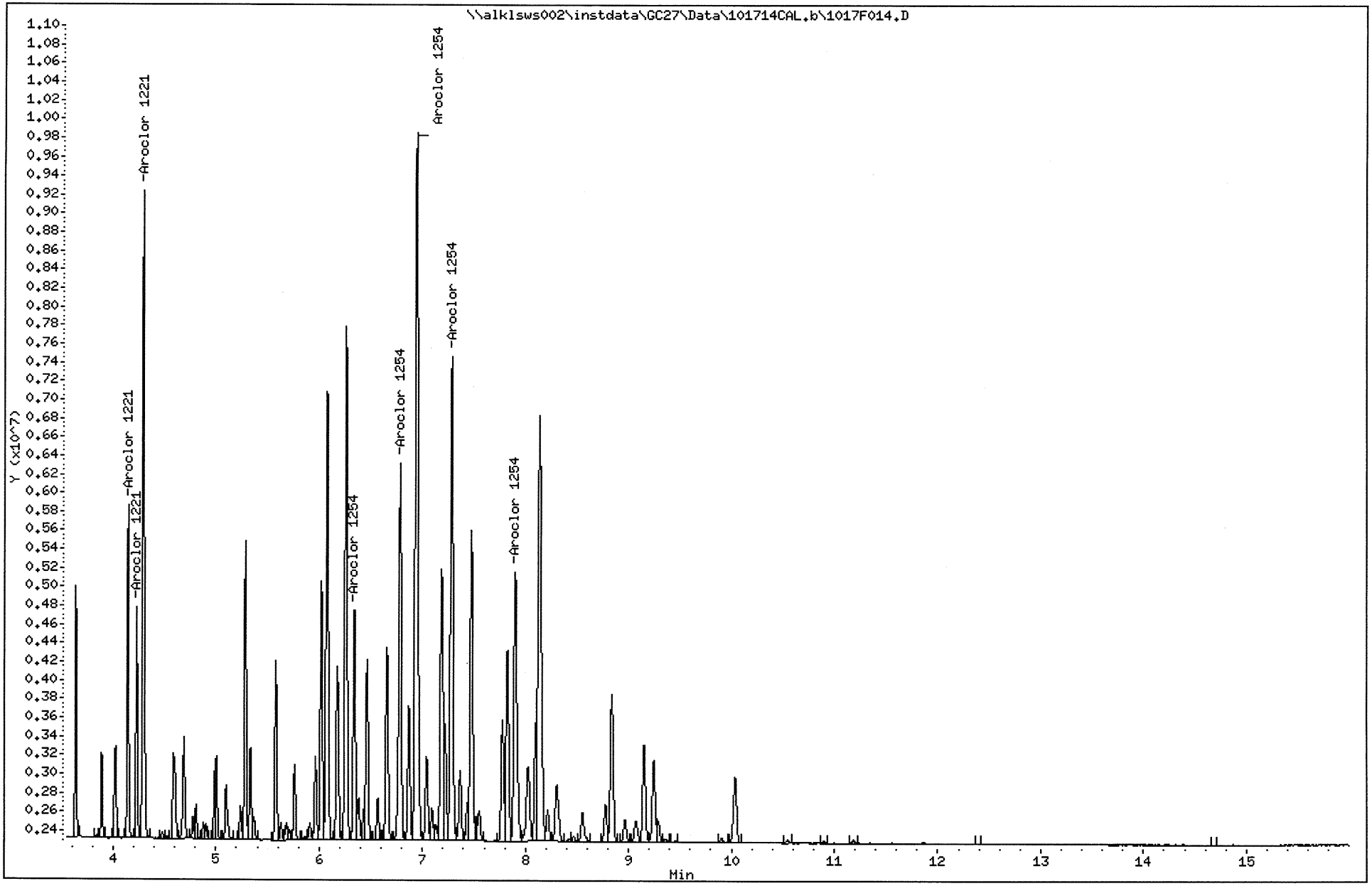
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

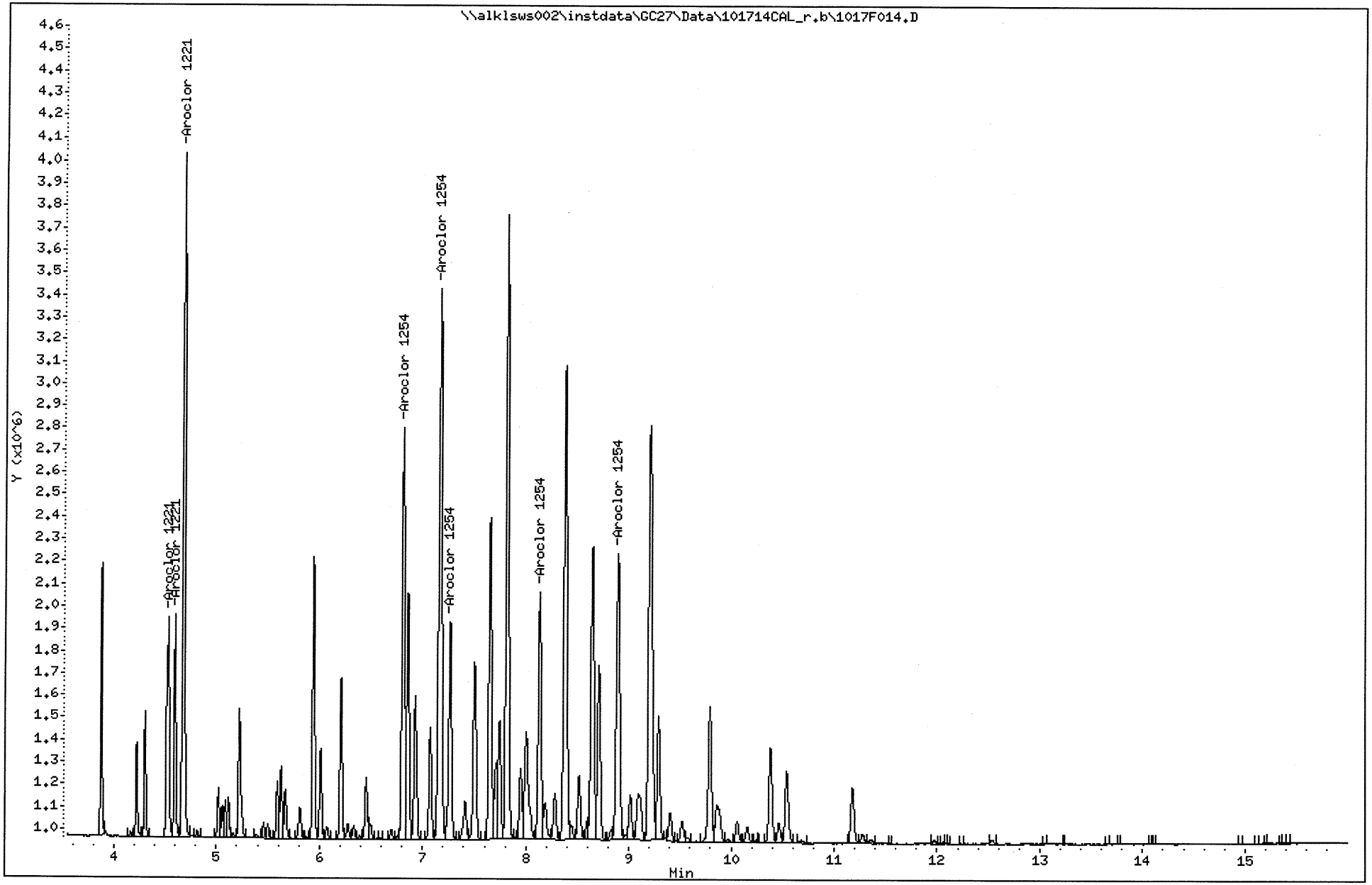


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

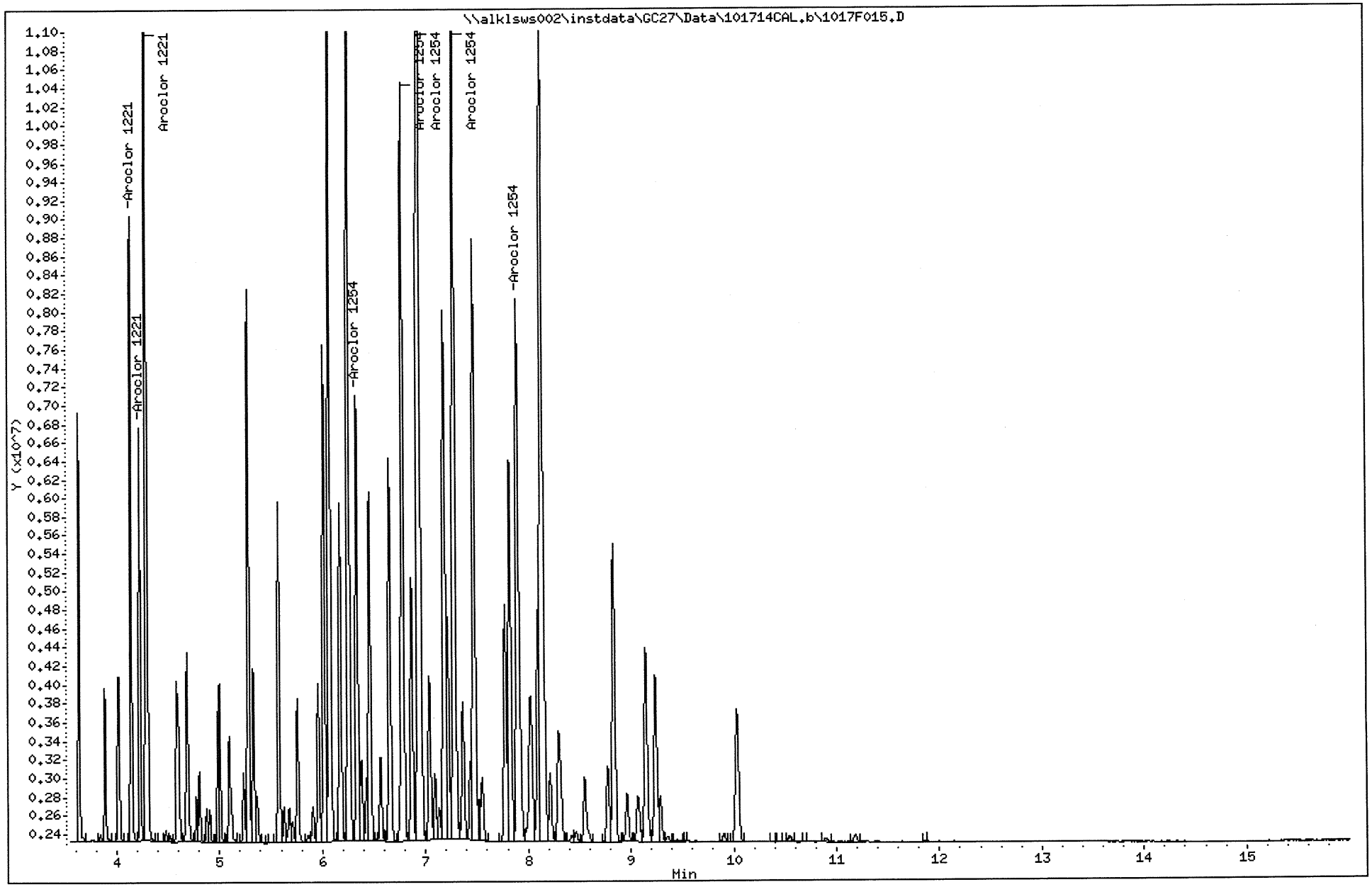
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



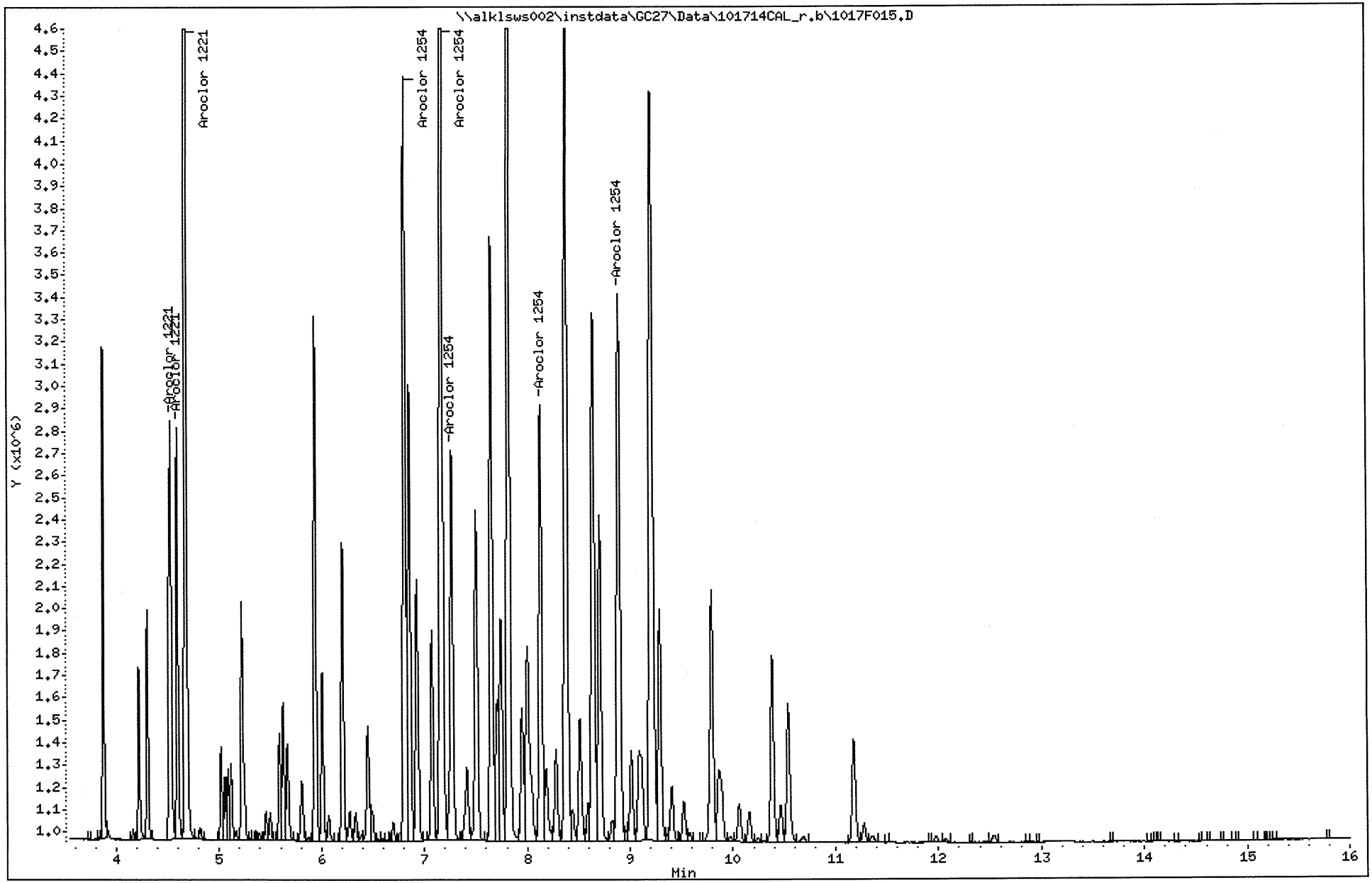
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
			Average of Peak Amounts =		7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
			Average of Peak Amounts =		4200	4190		

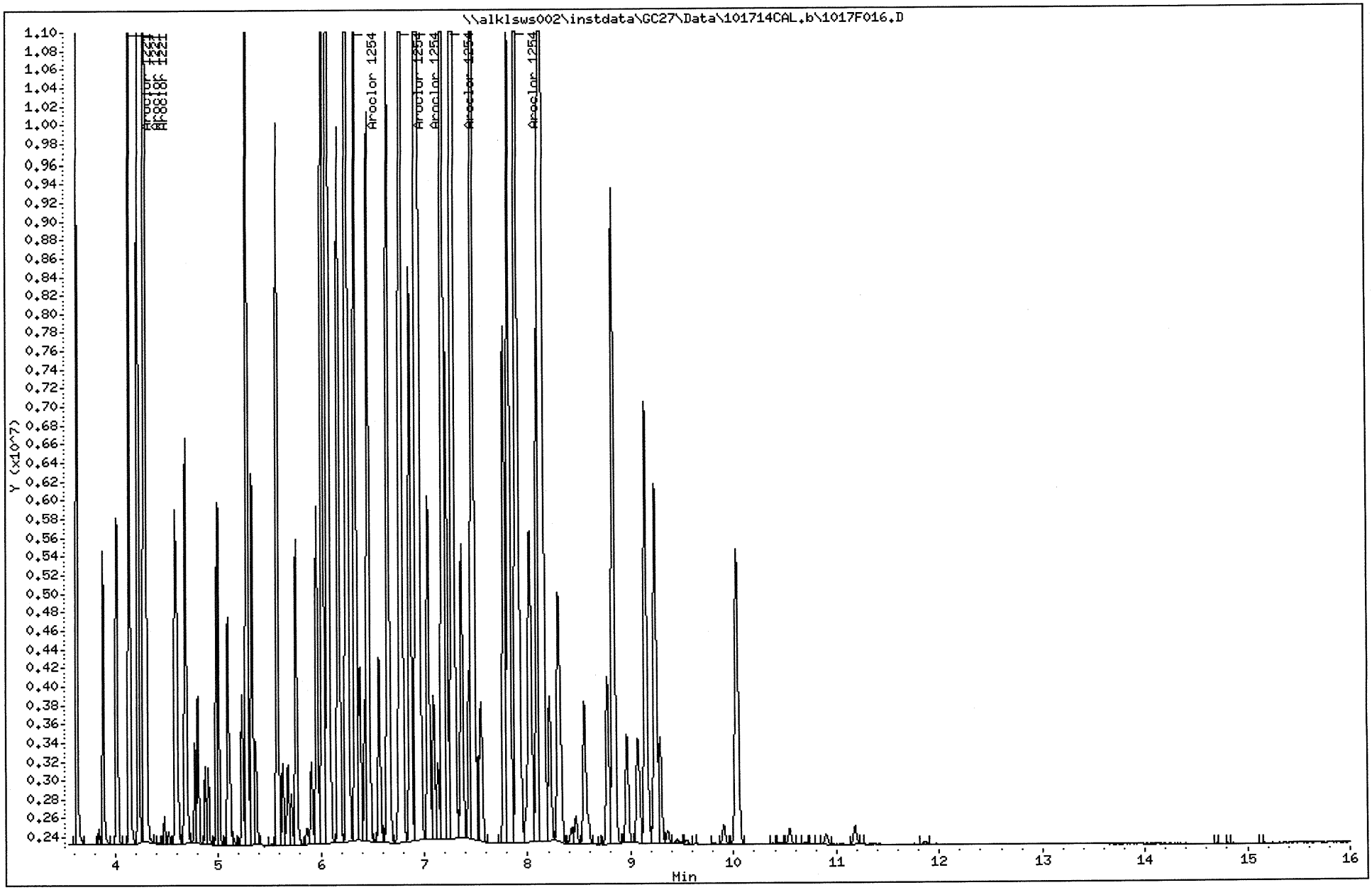
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



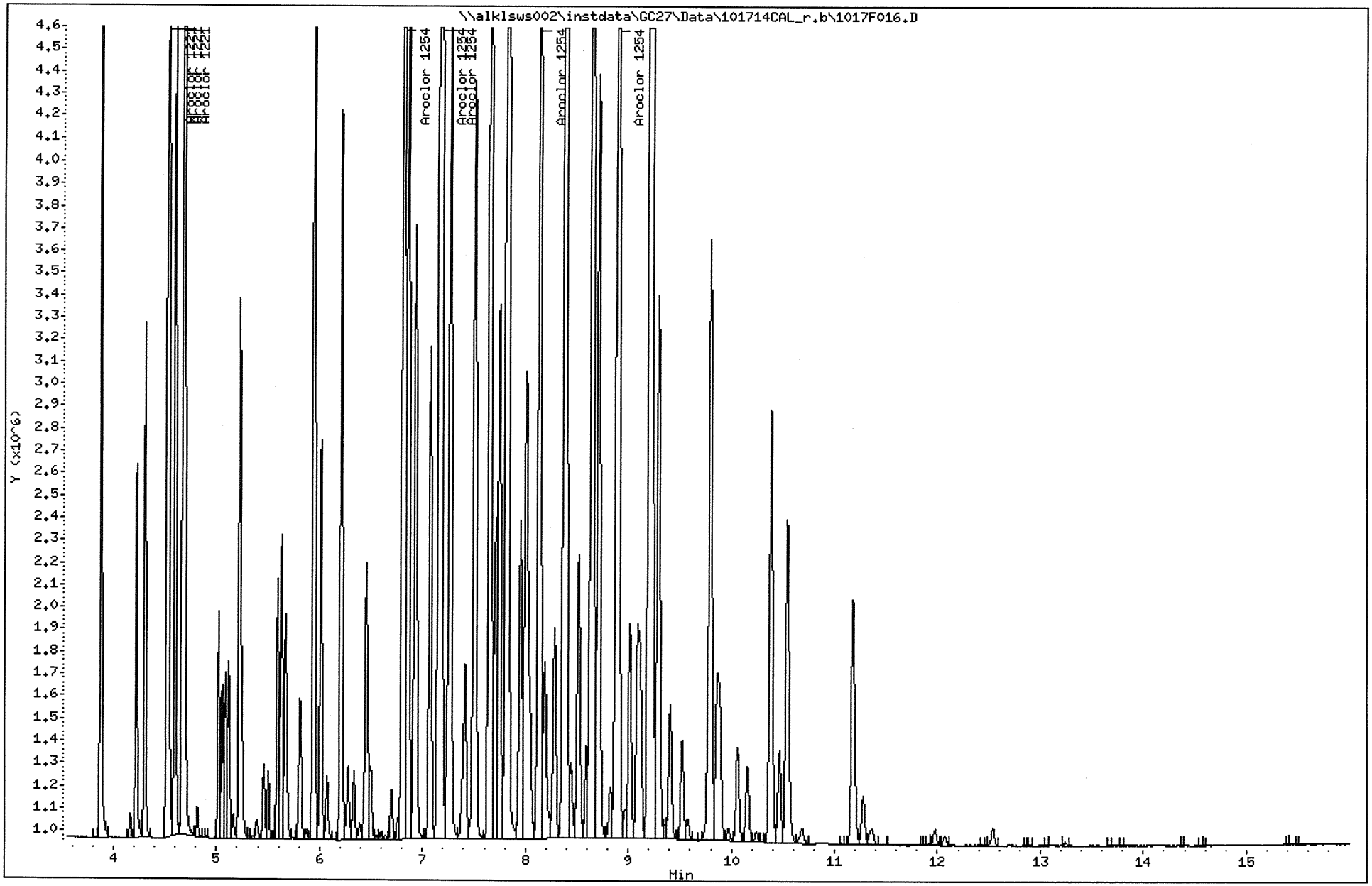
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

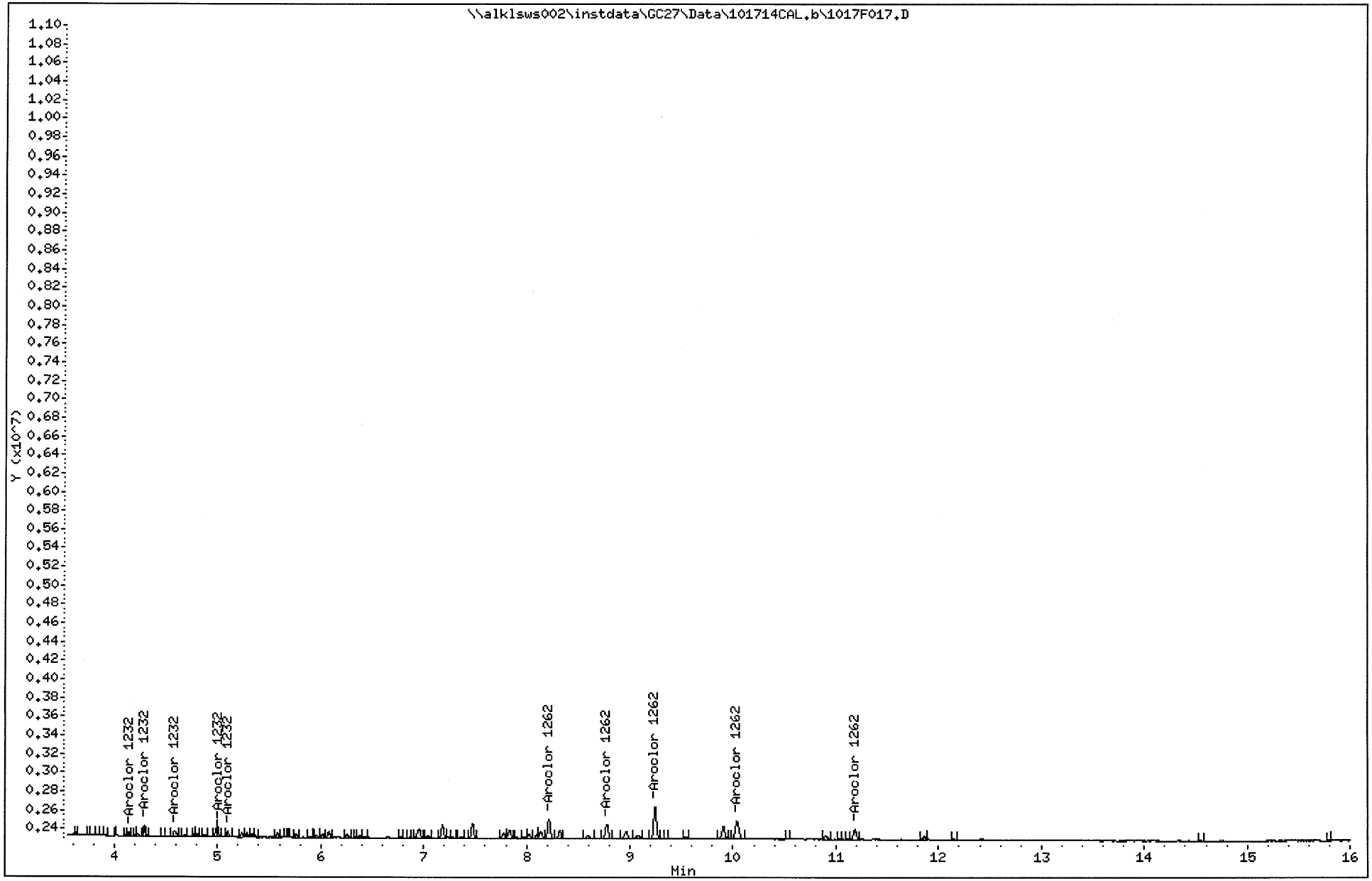
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



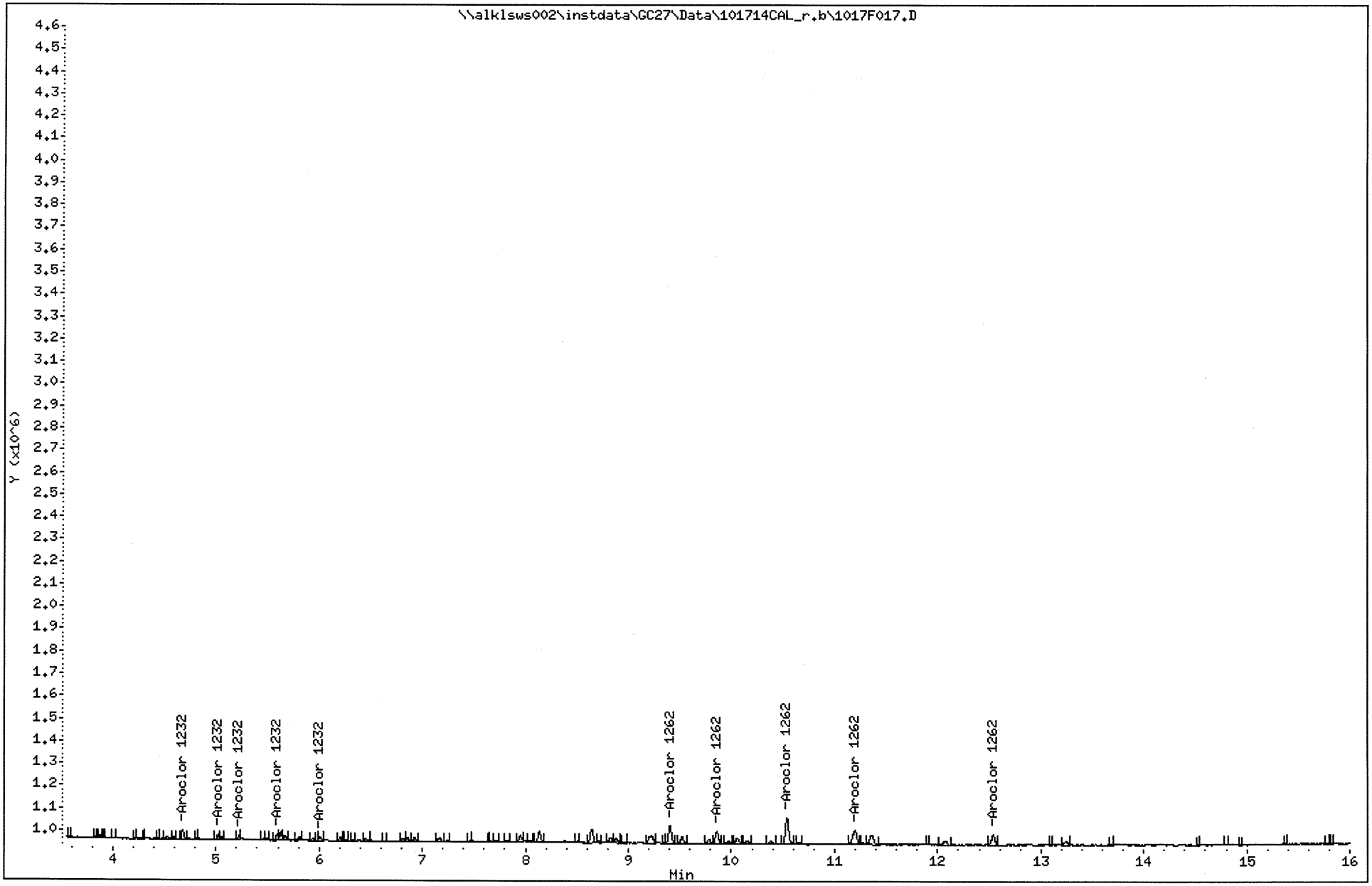
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

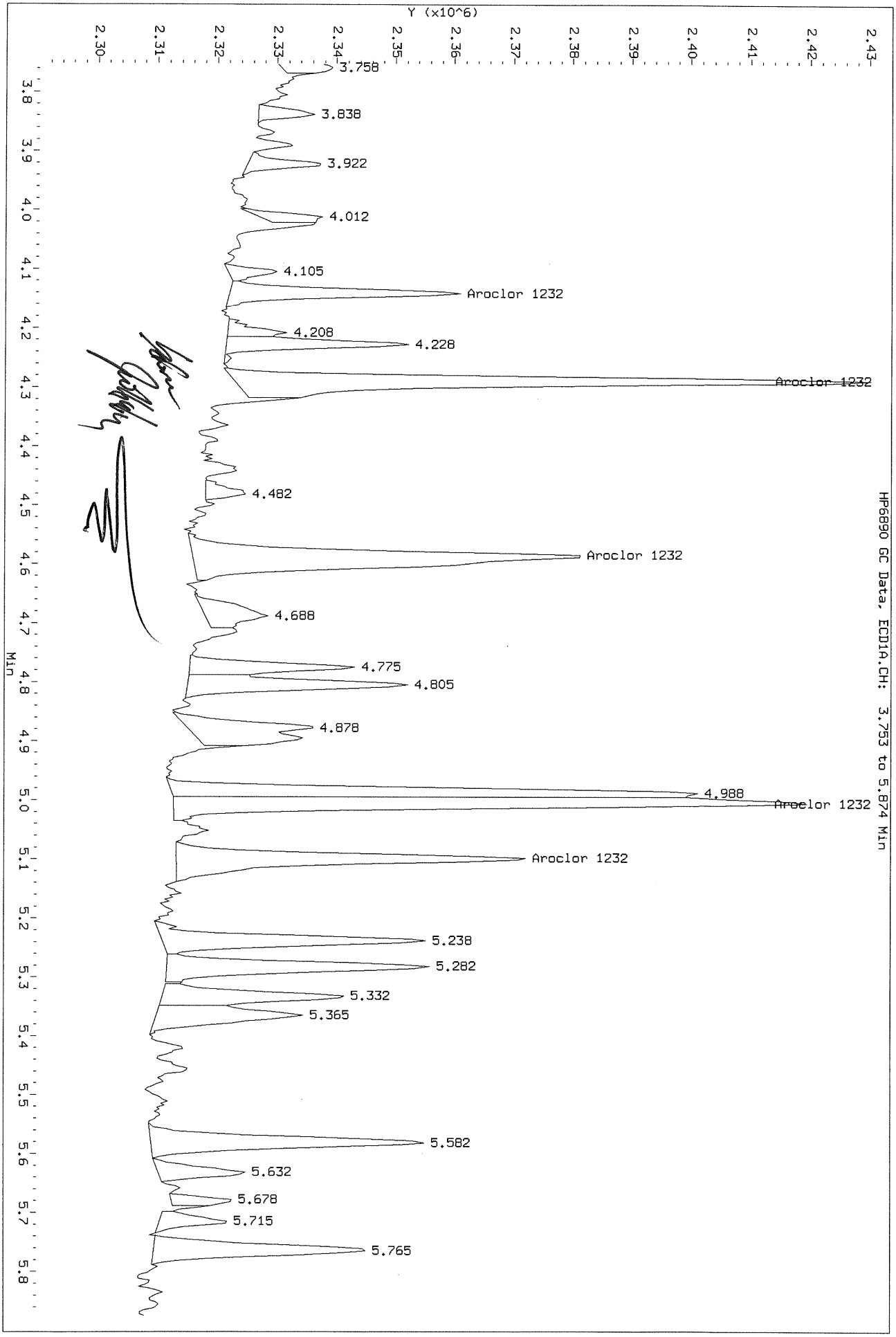
Operator: JMSmith

Column phase: DB-XLB

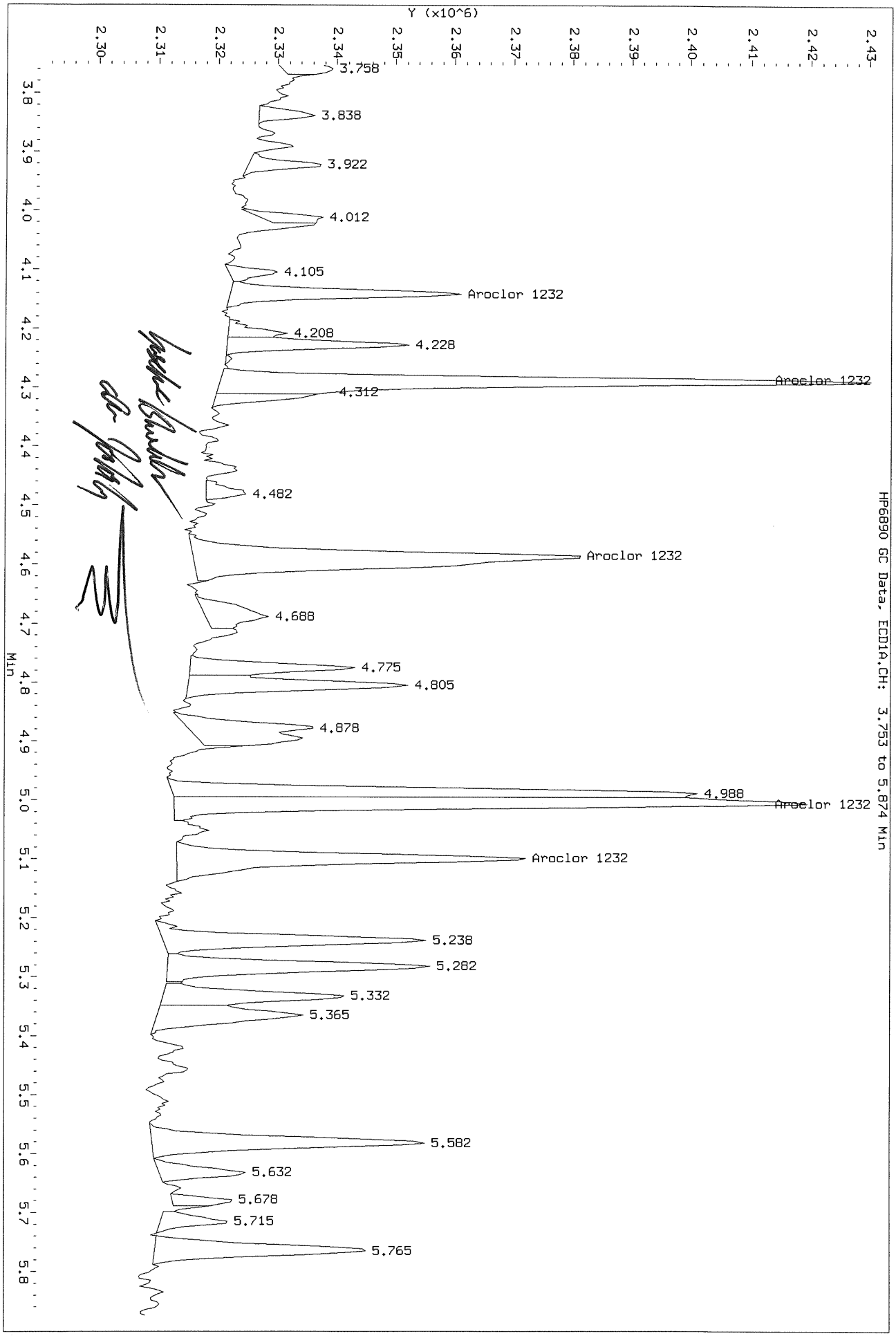
Column diameter: 0.32



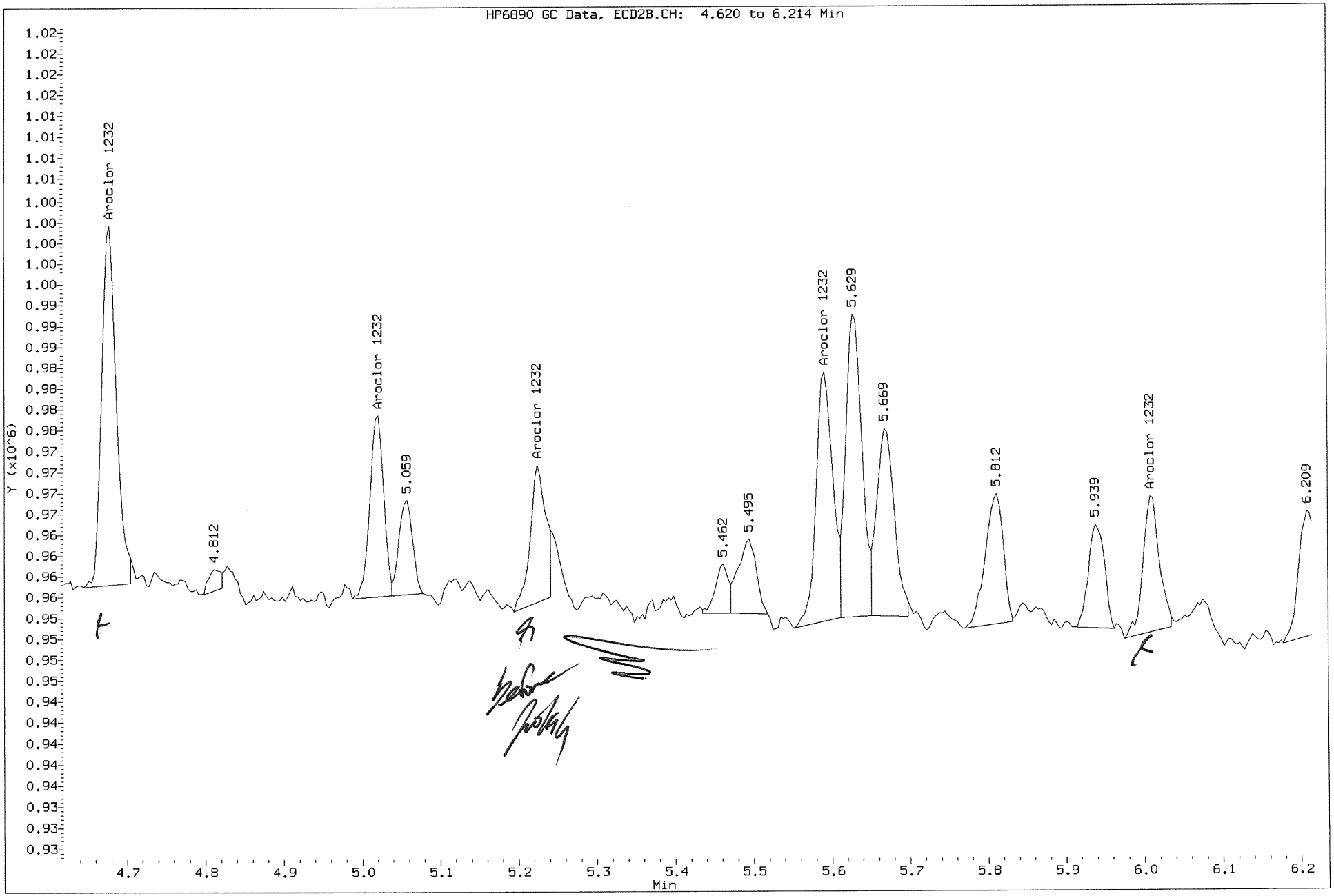
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



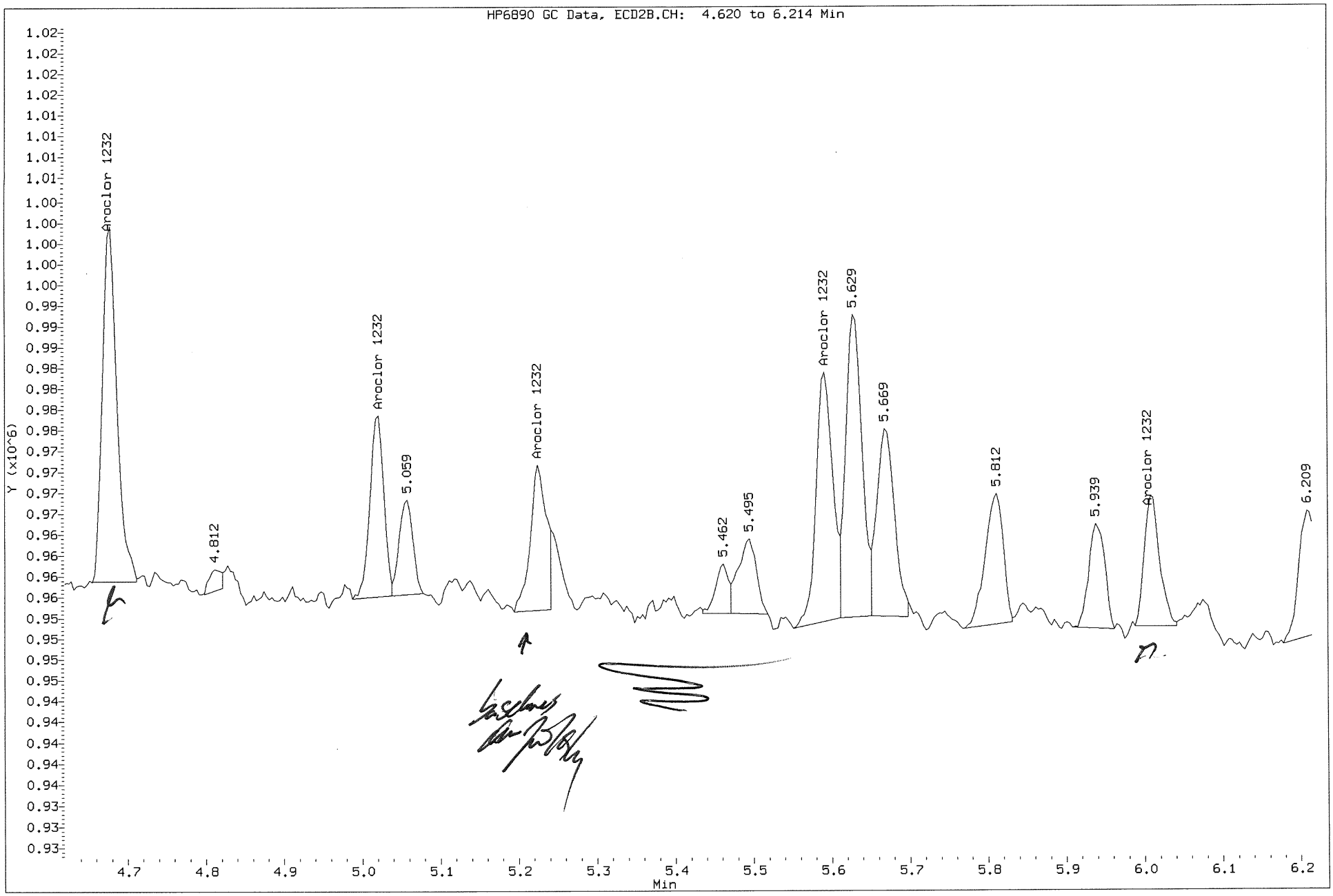
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

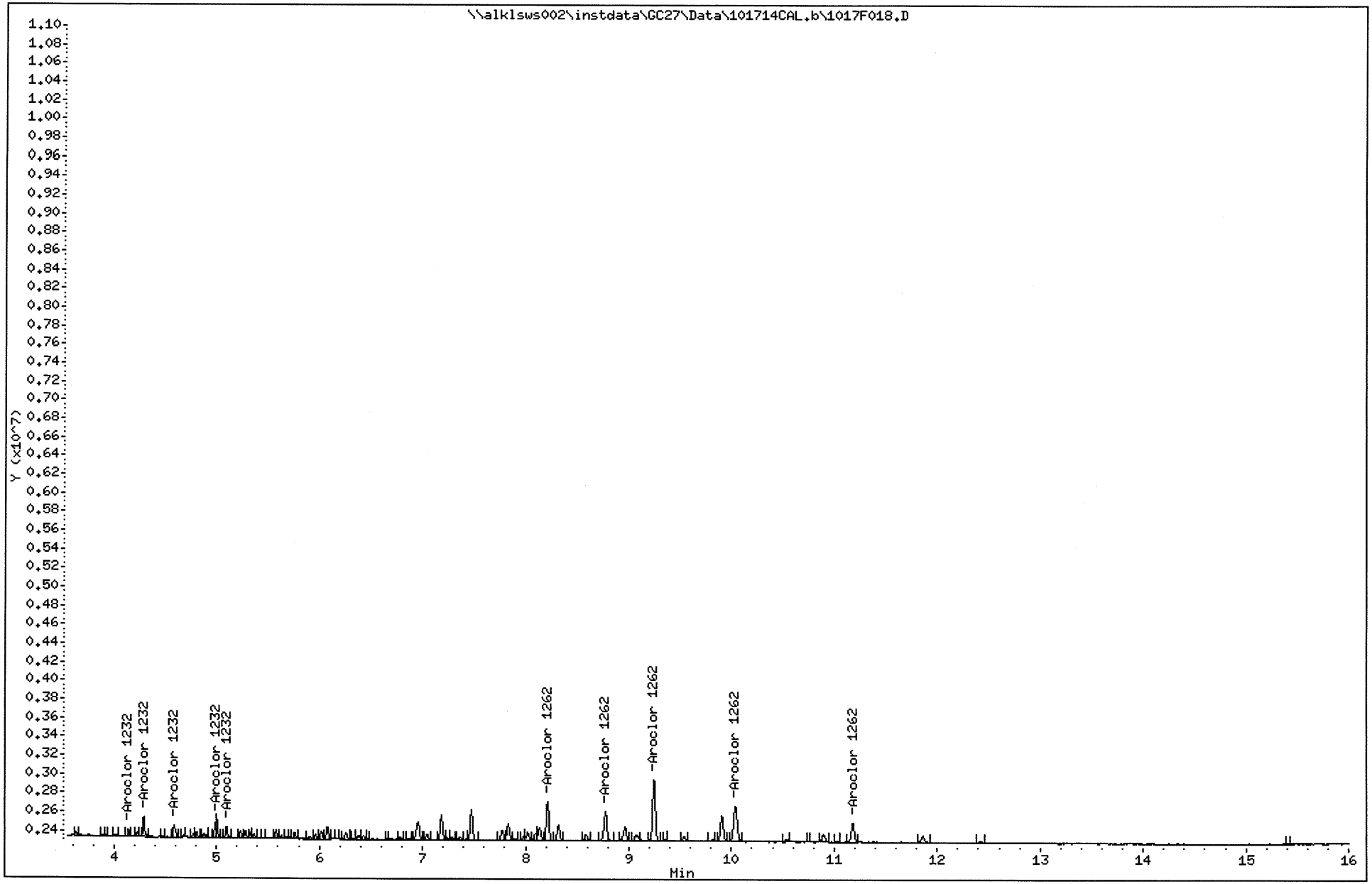
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



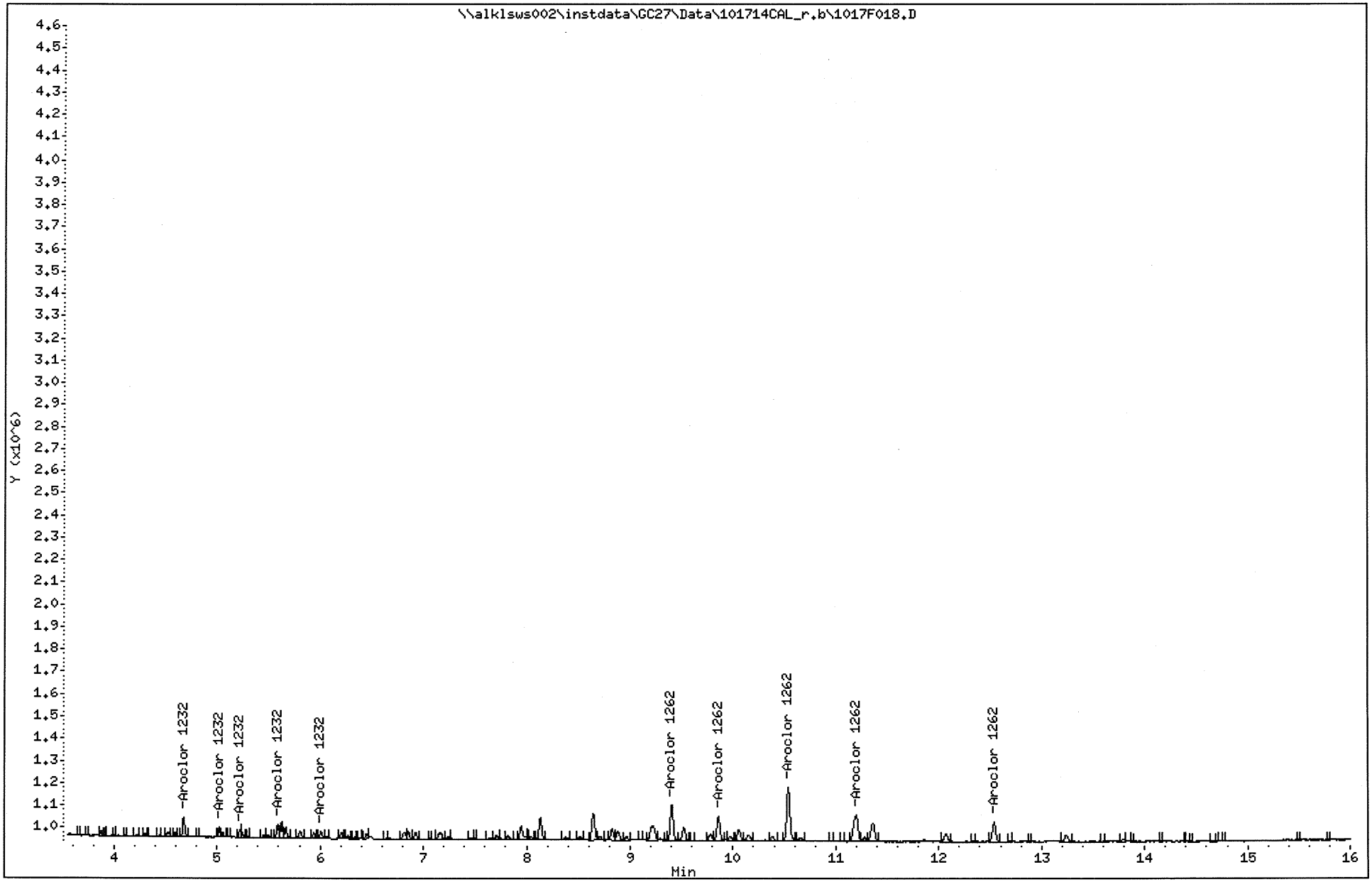
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

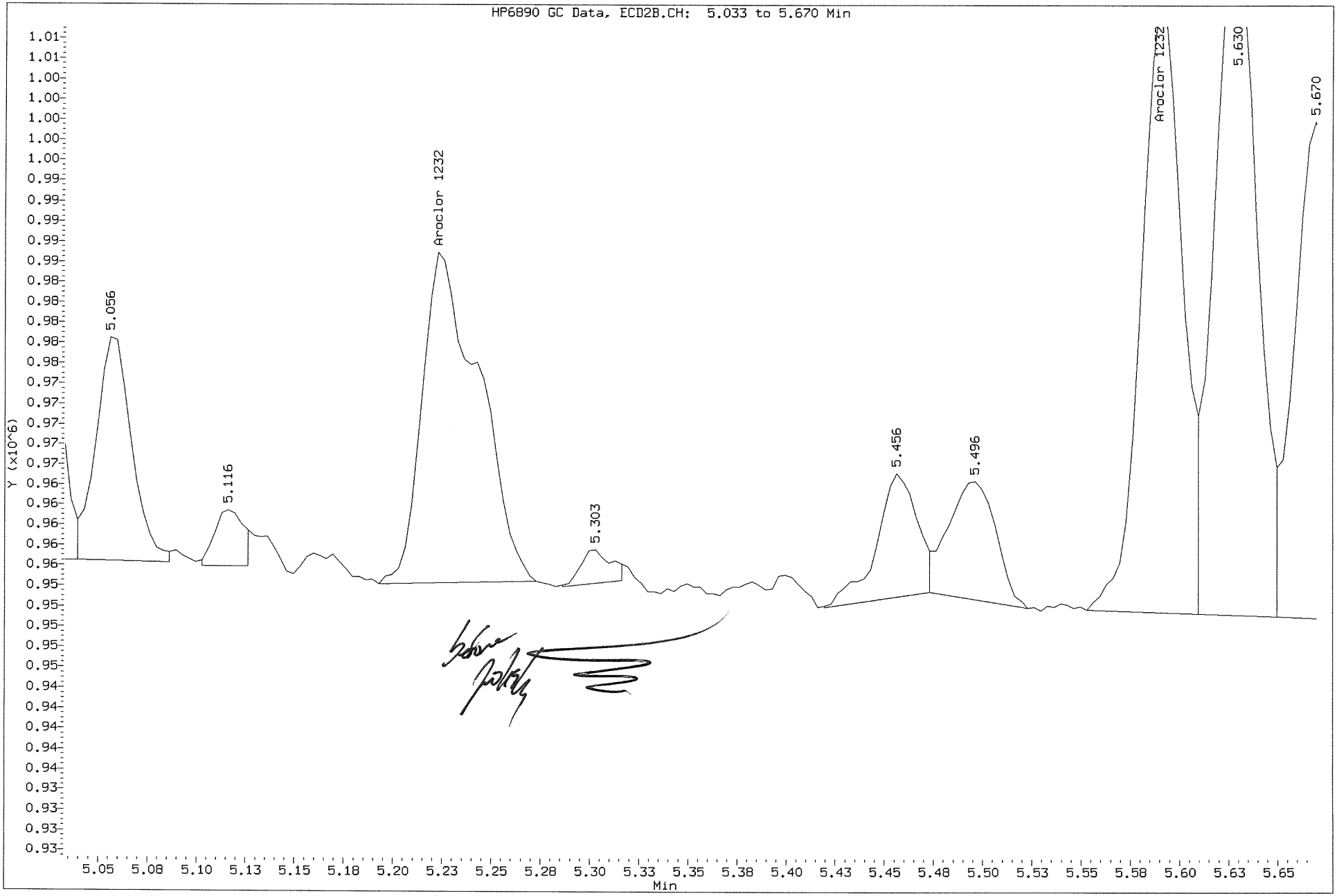
Operator: JMSmith

Column phase: DB-XLB

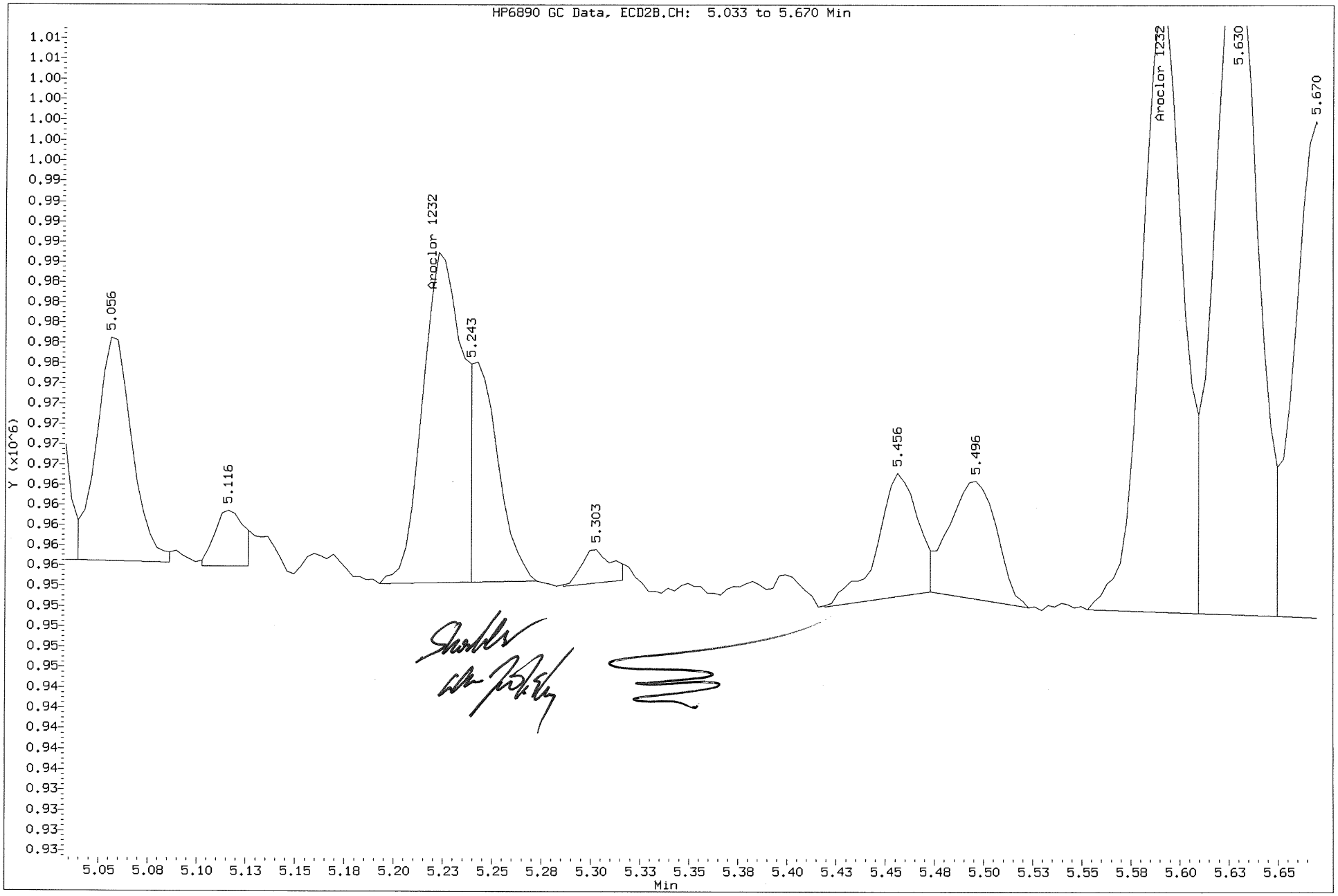
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

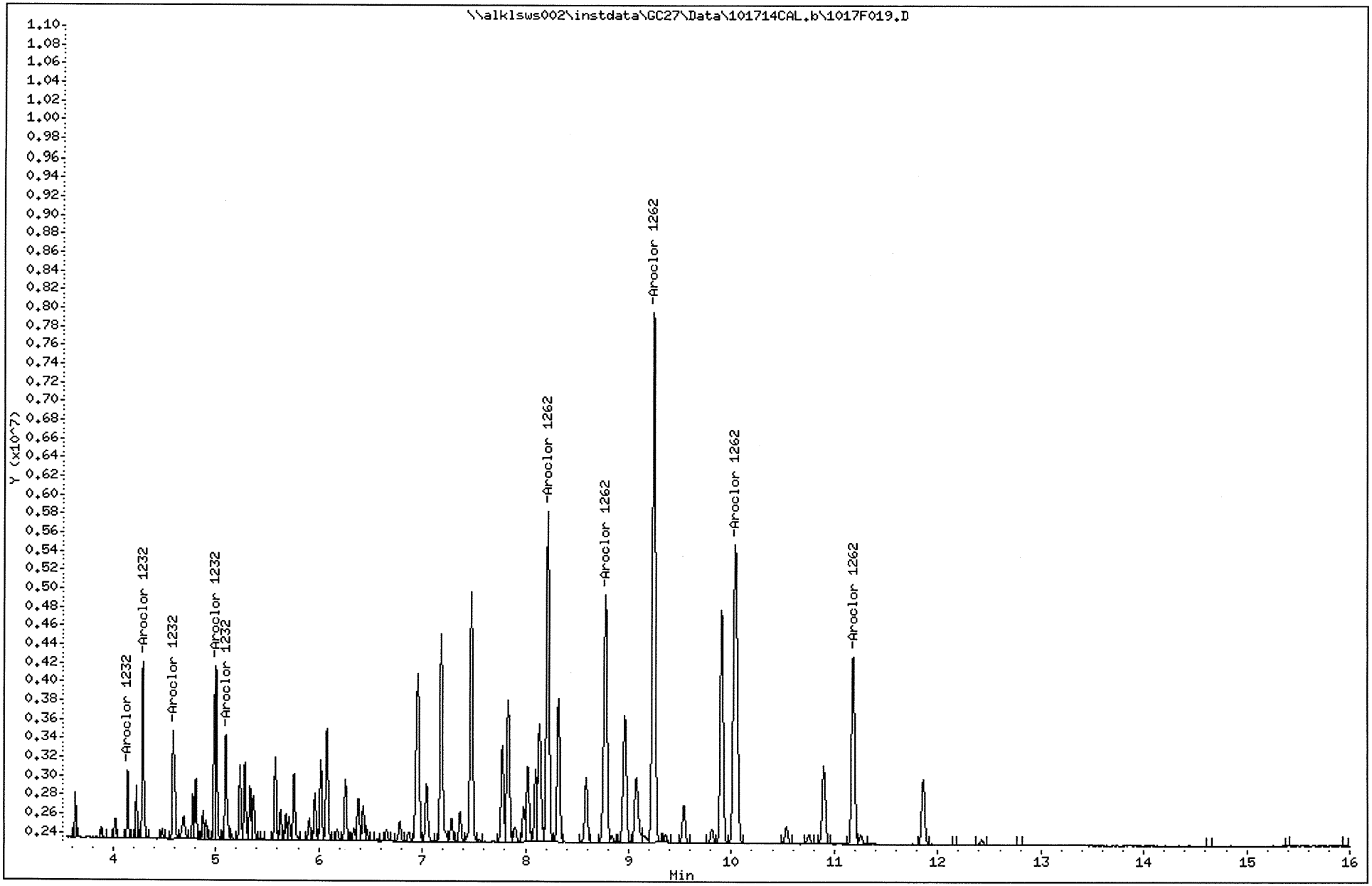
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



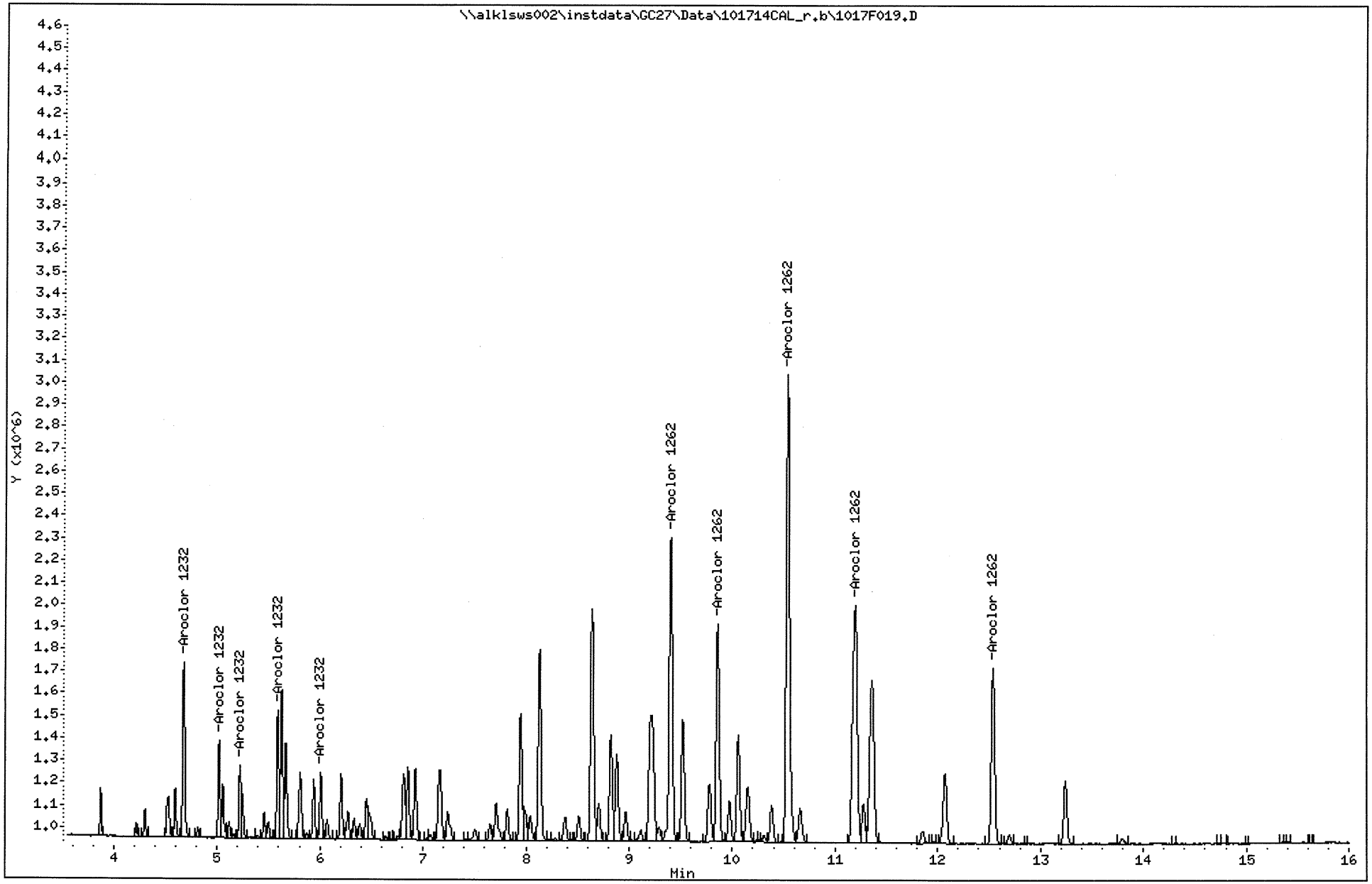
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

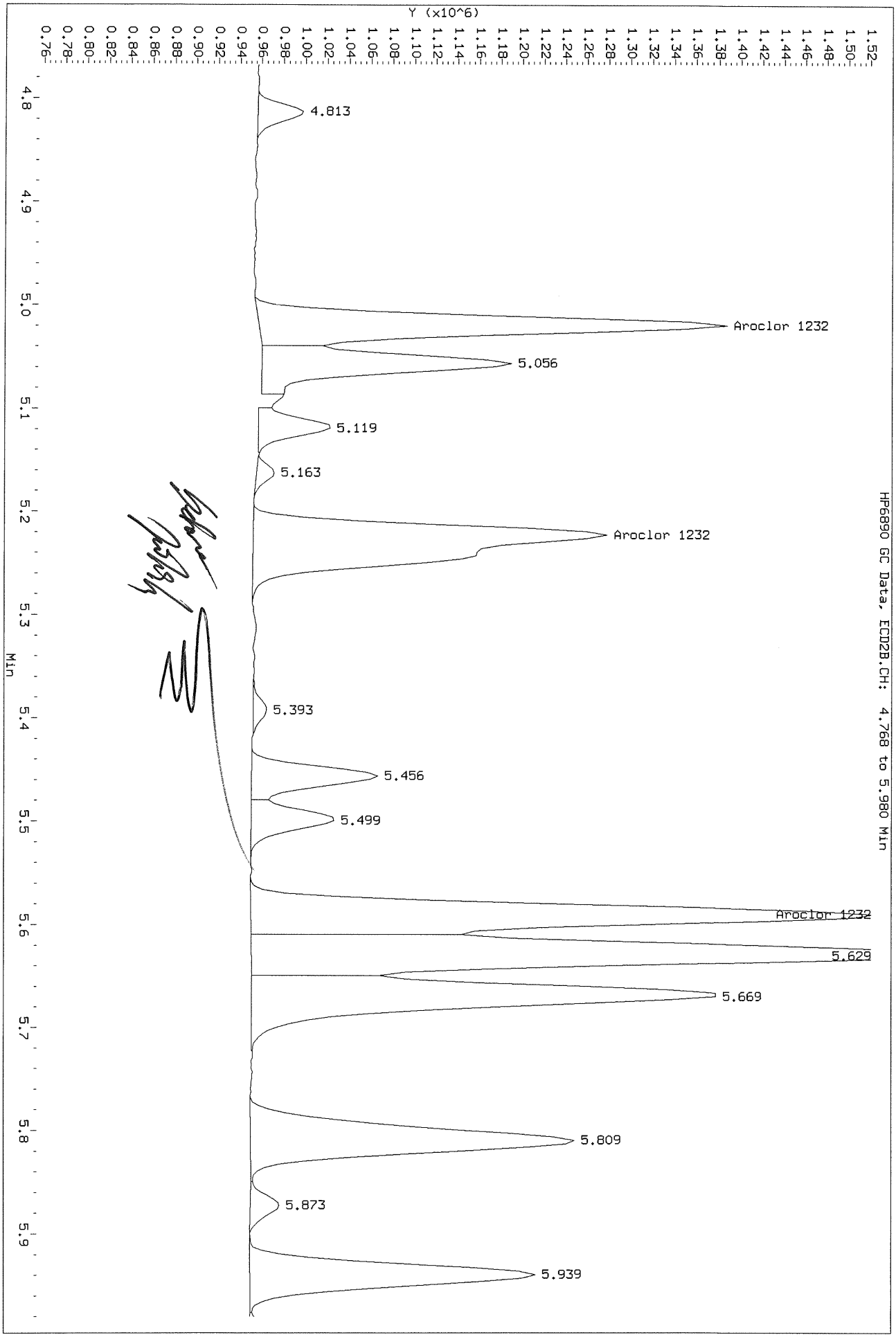
Column phase: DB-XLB

Column diameter: 0.32

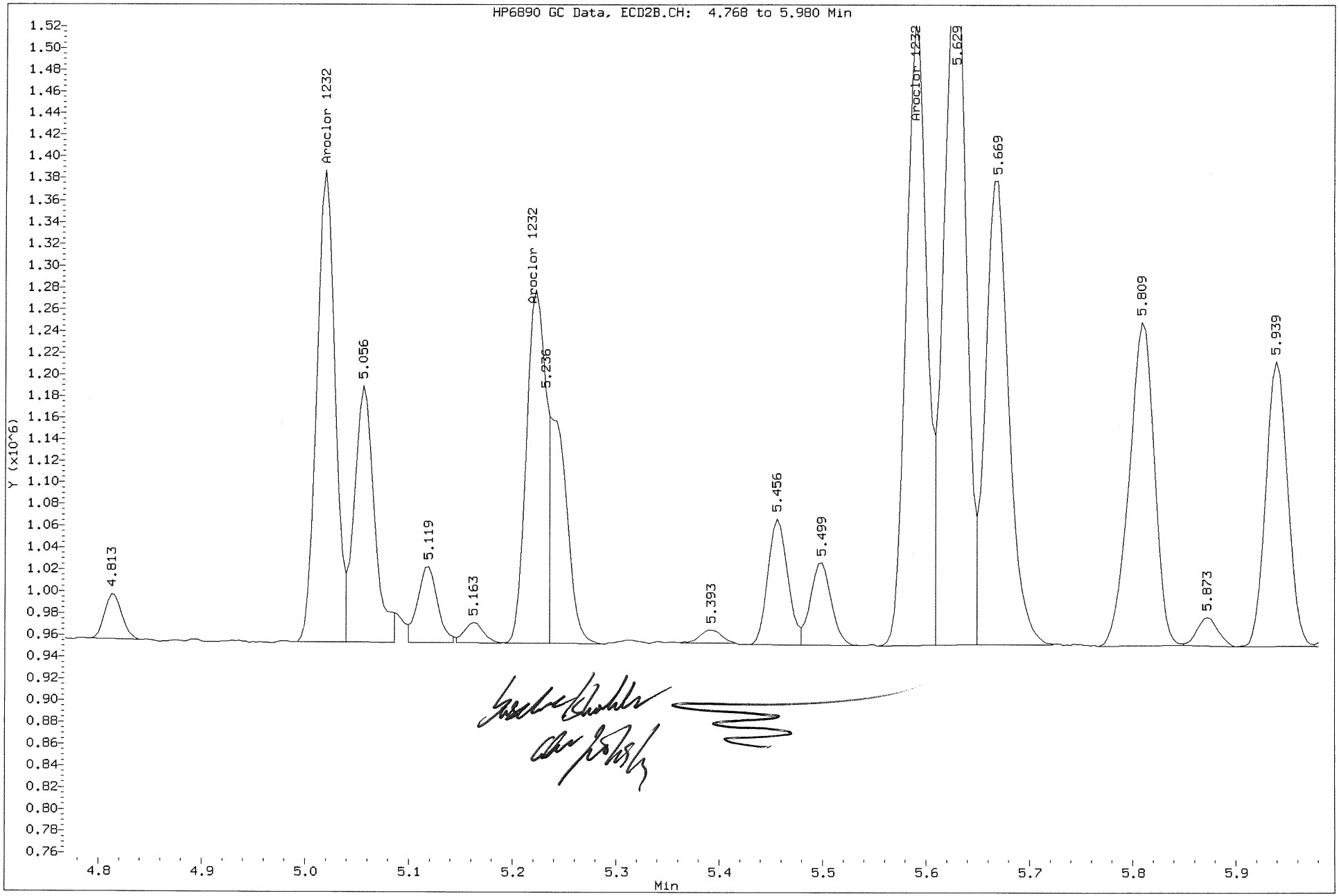


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

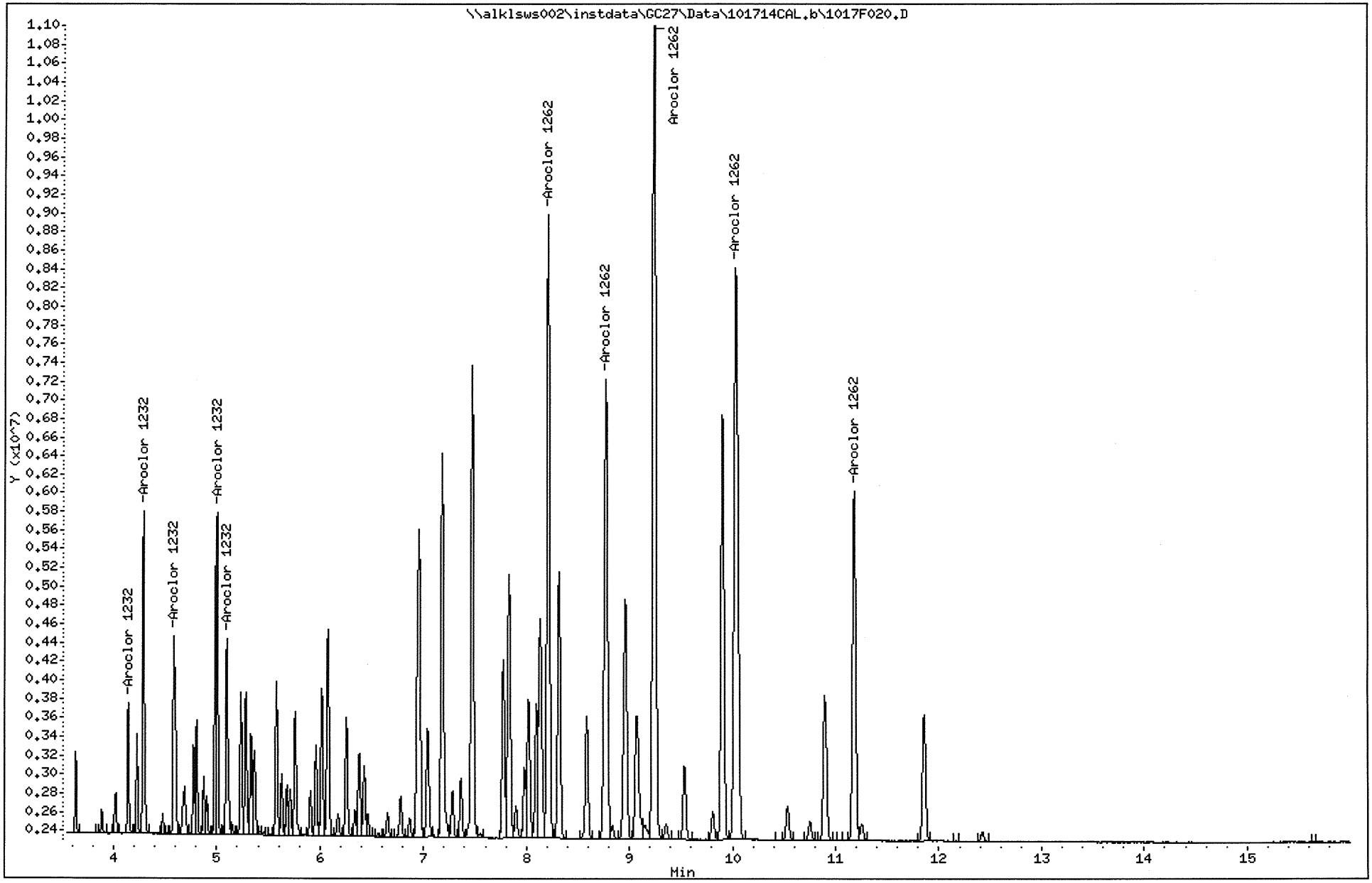
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

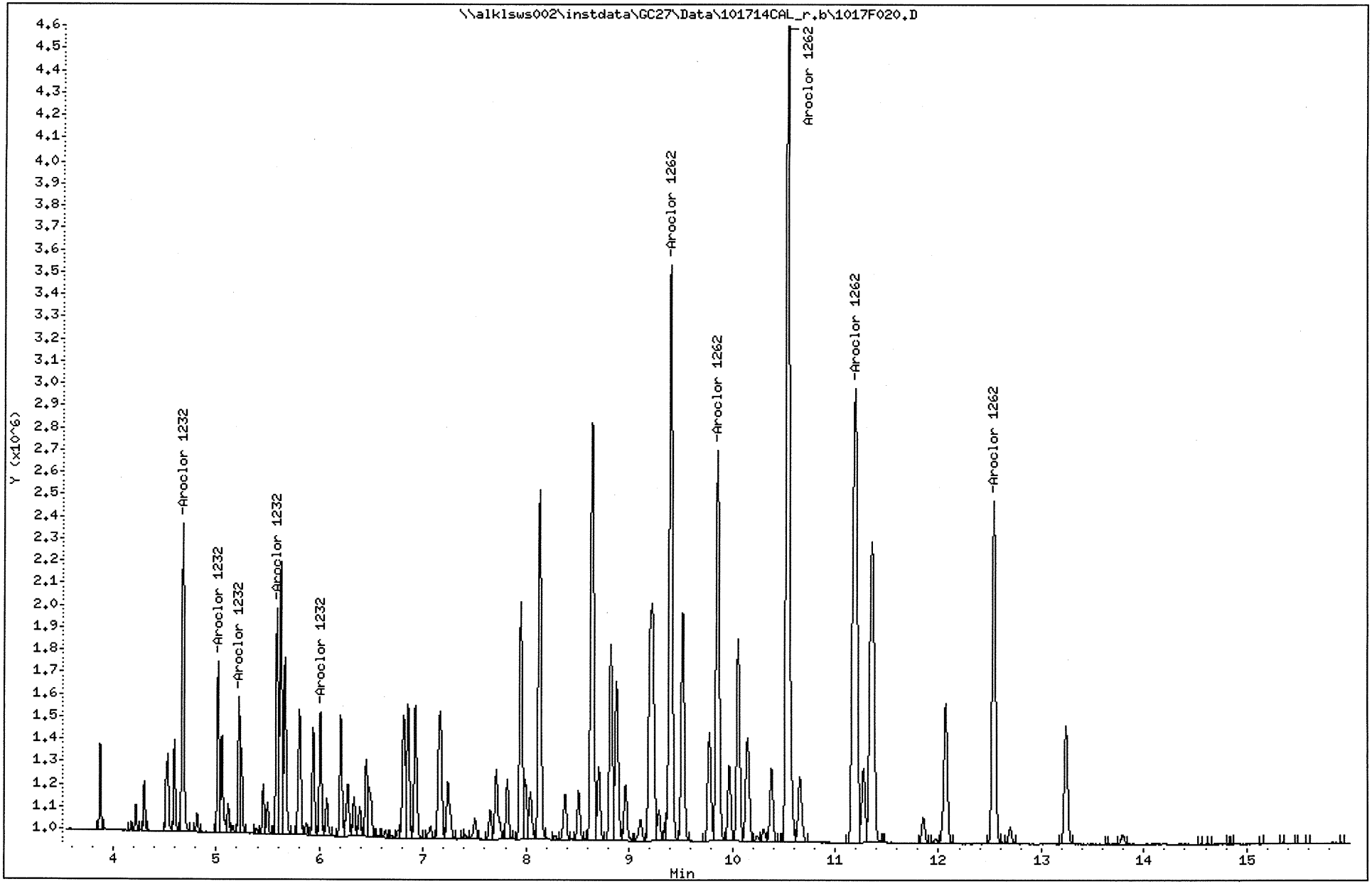


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

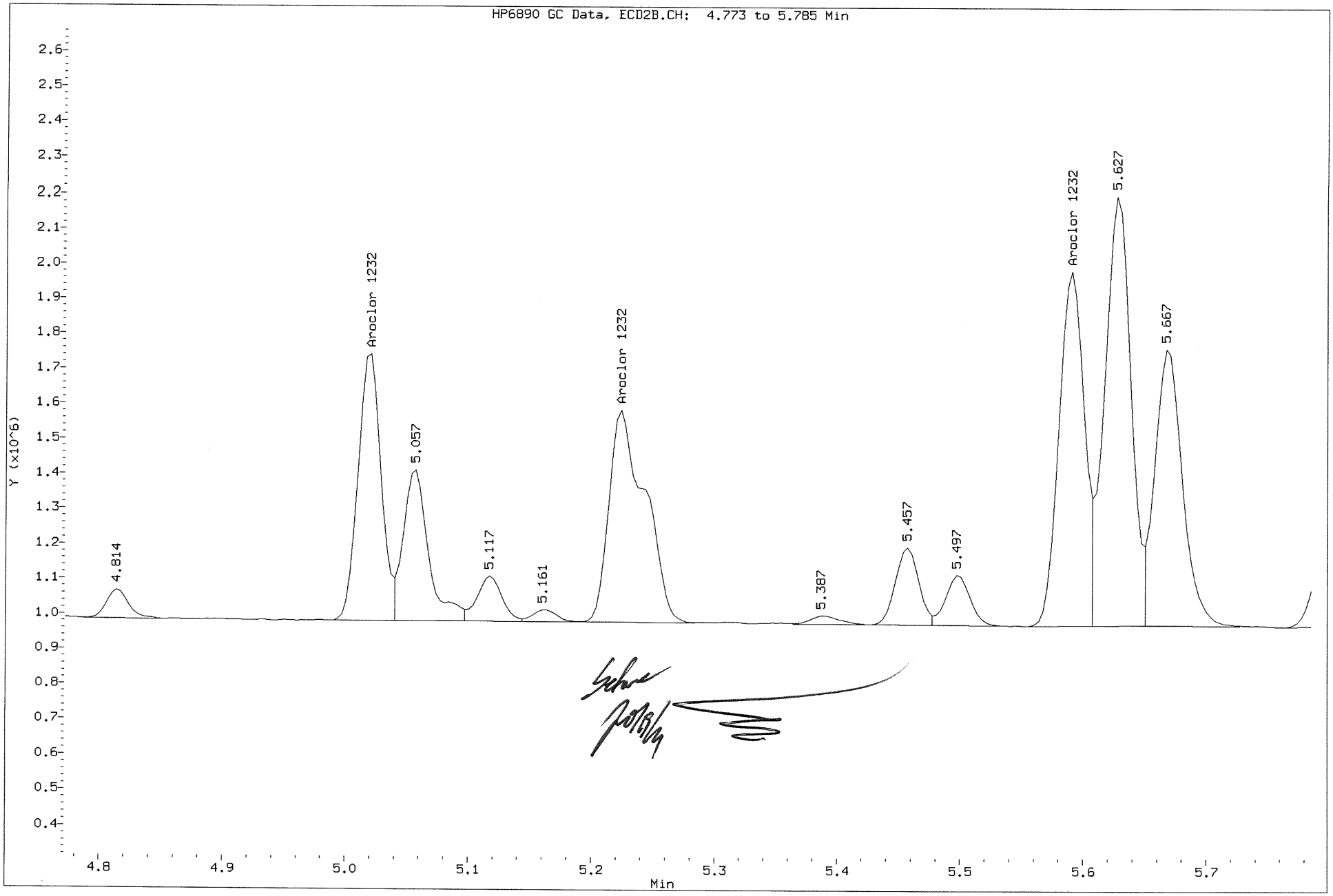
Column phase: DB-XLB

Instrument: GC27.i

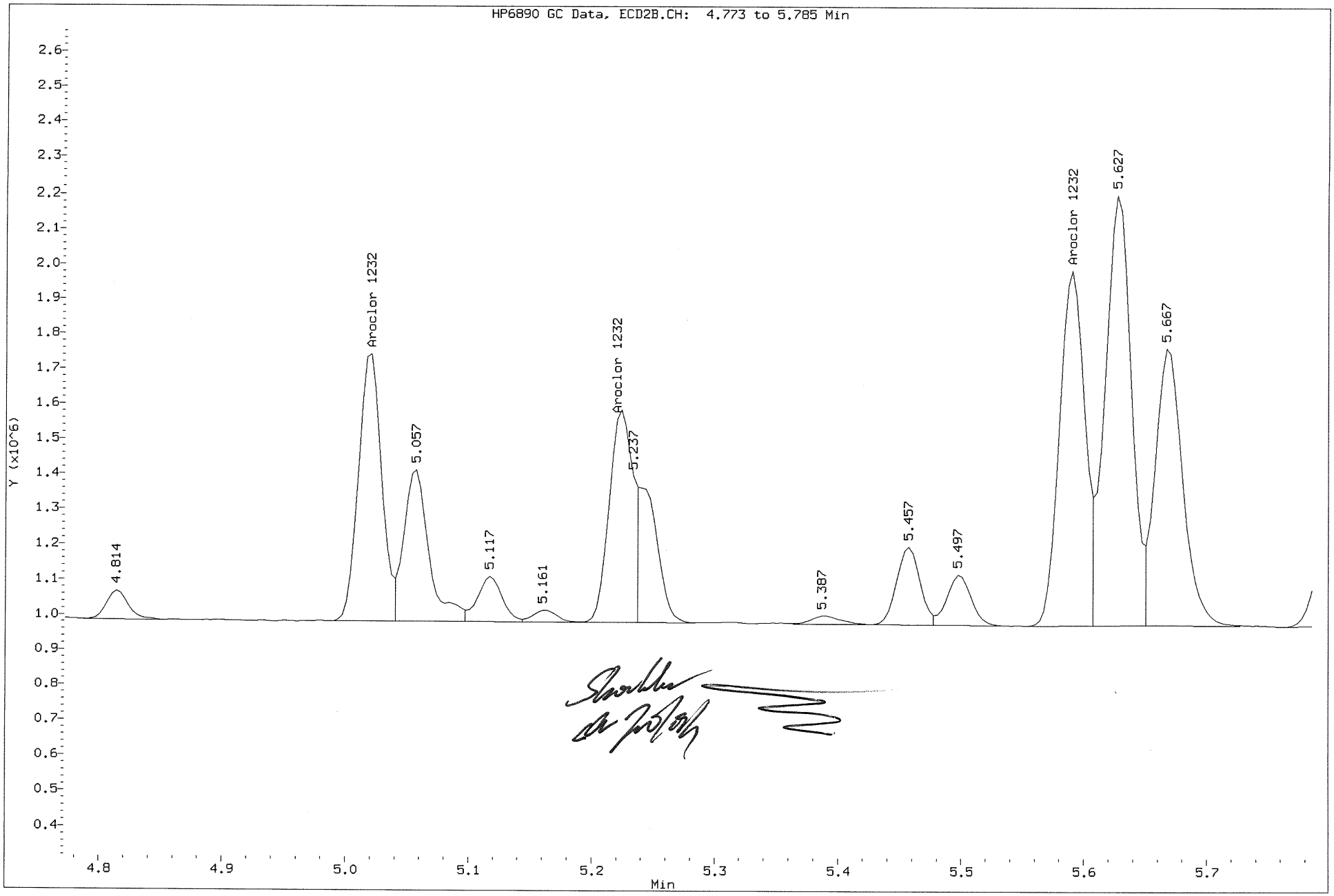
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

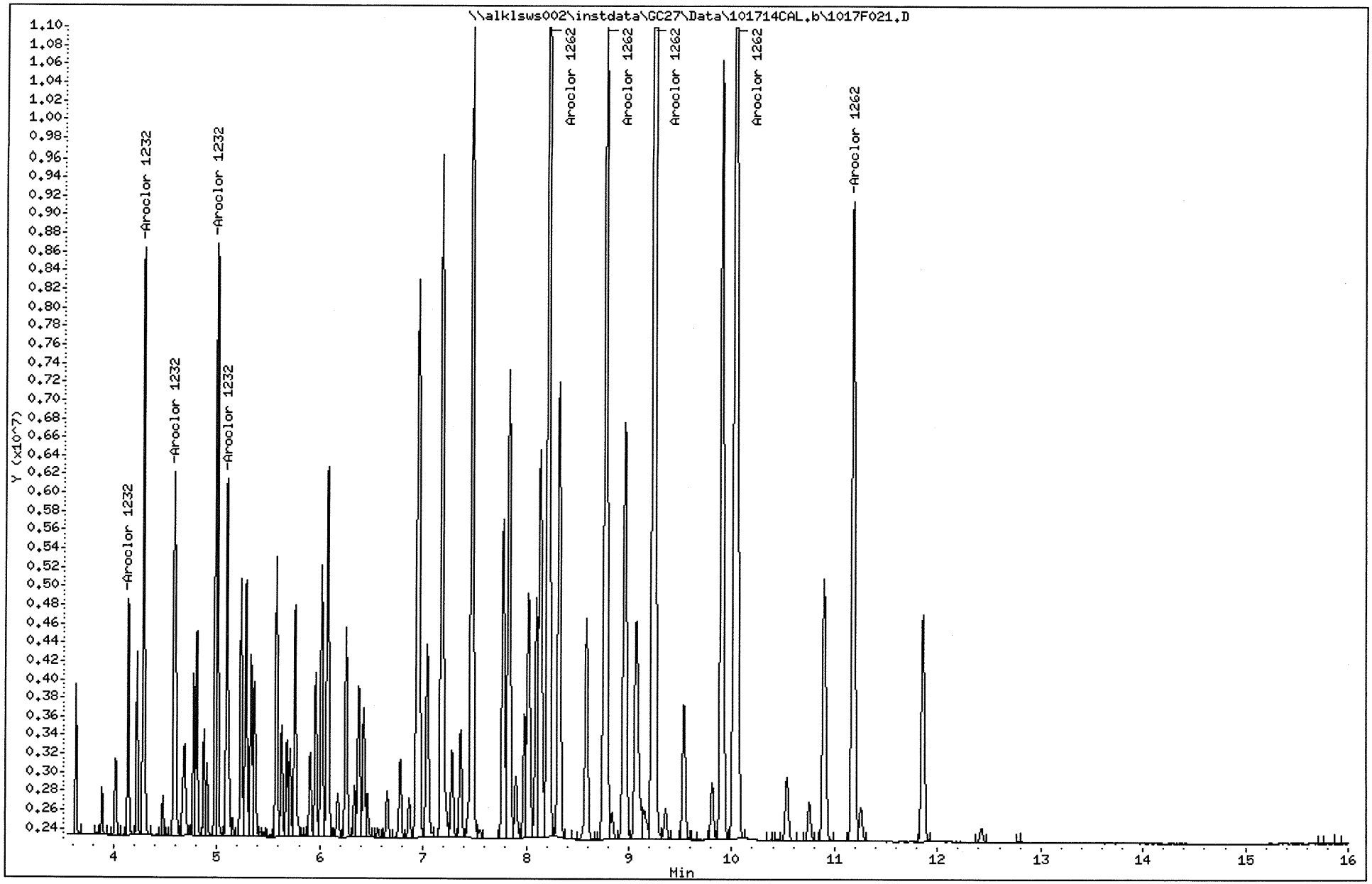
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

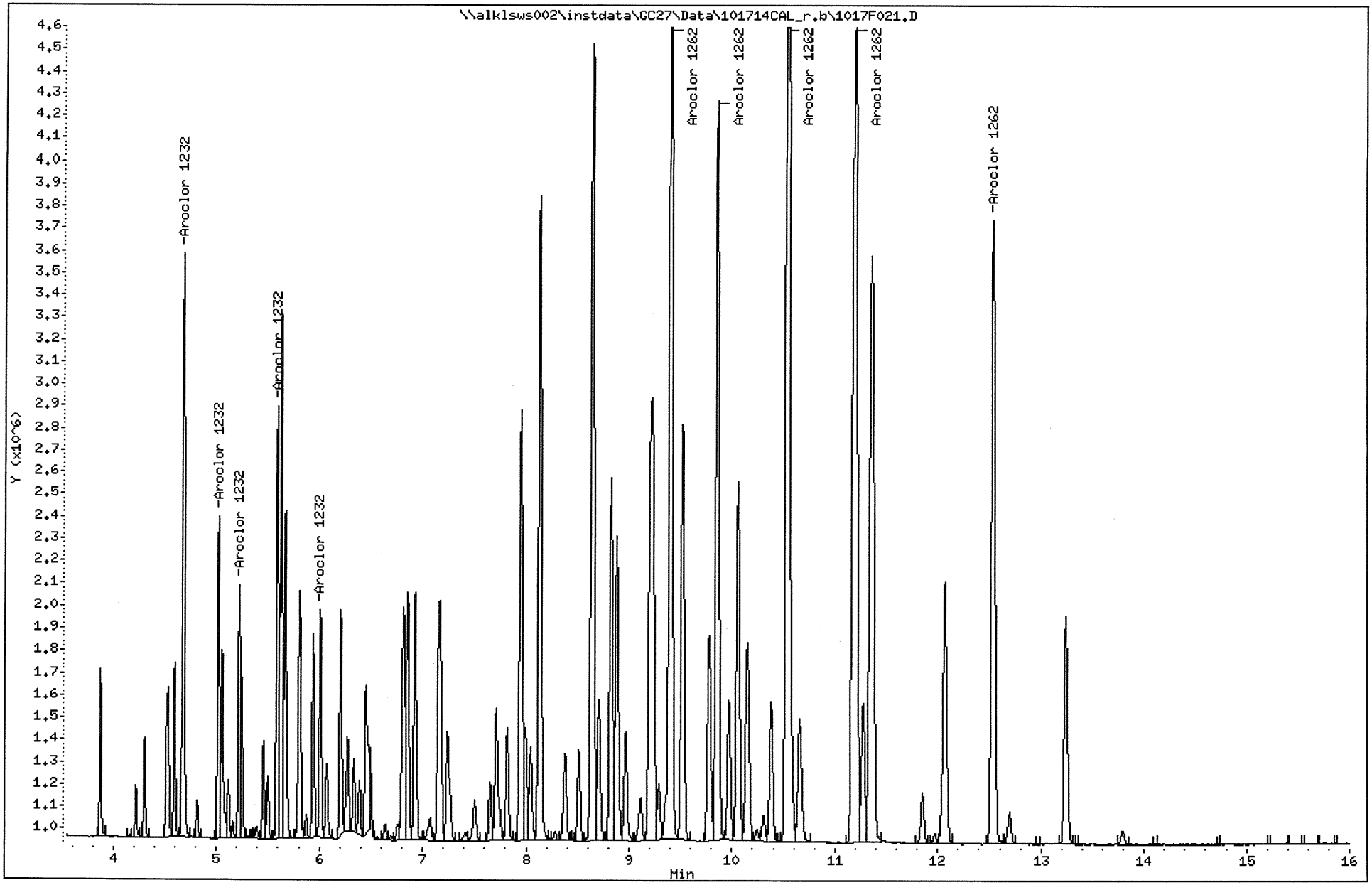


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

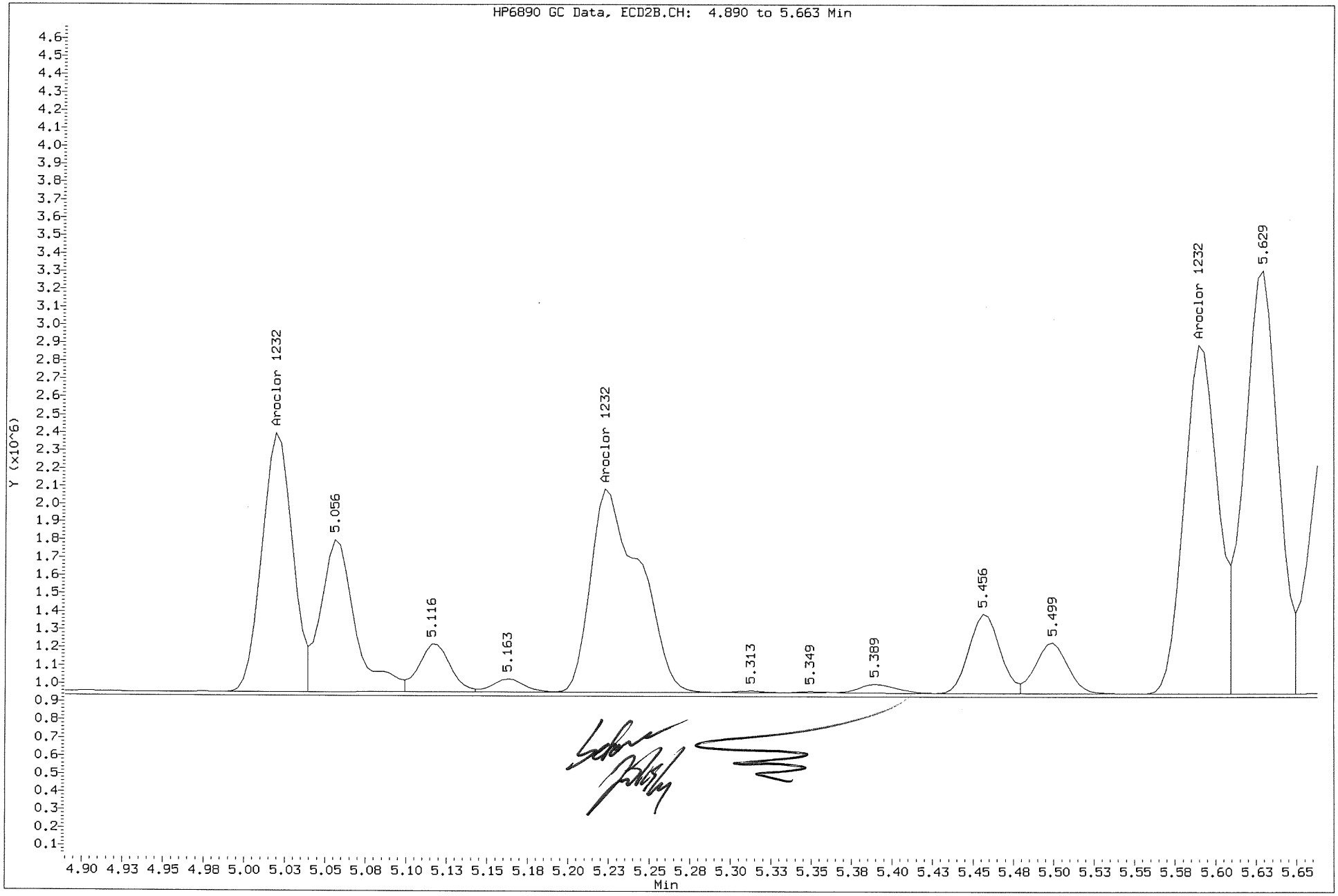
Column phase: DB-XLB

Instrument: GC27.i

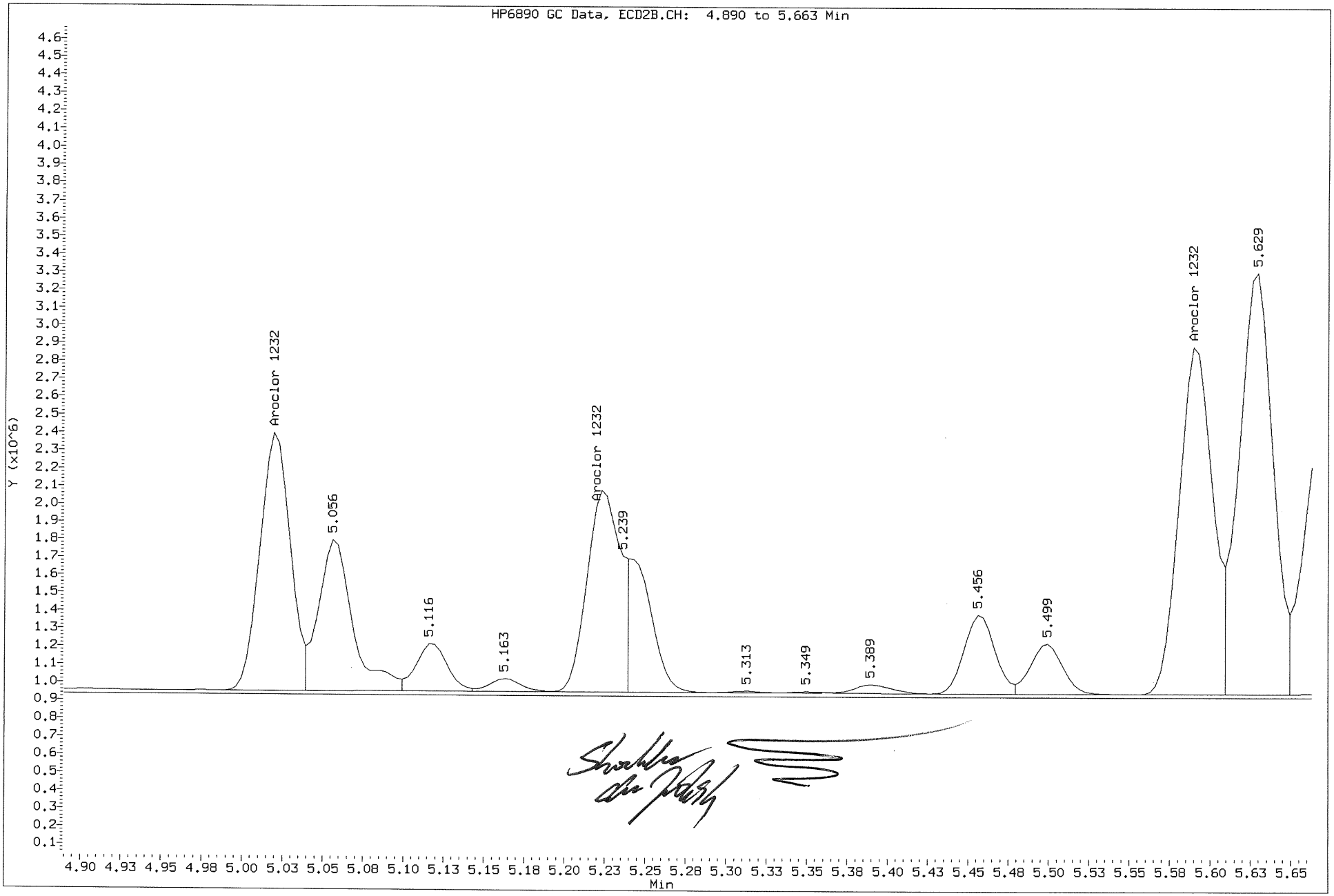
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

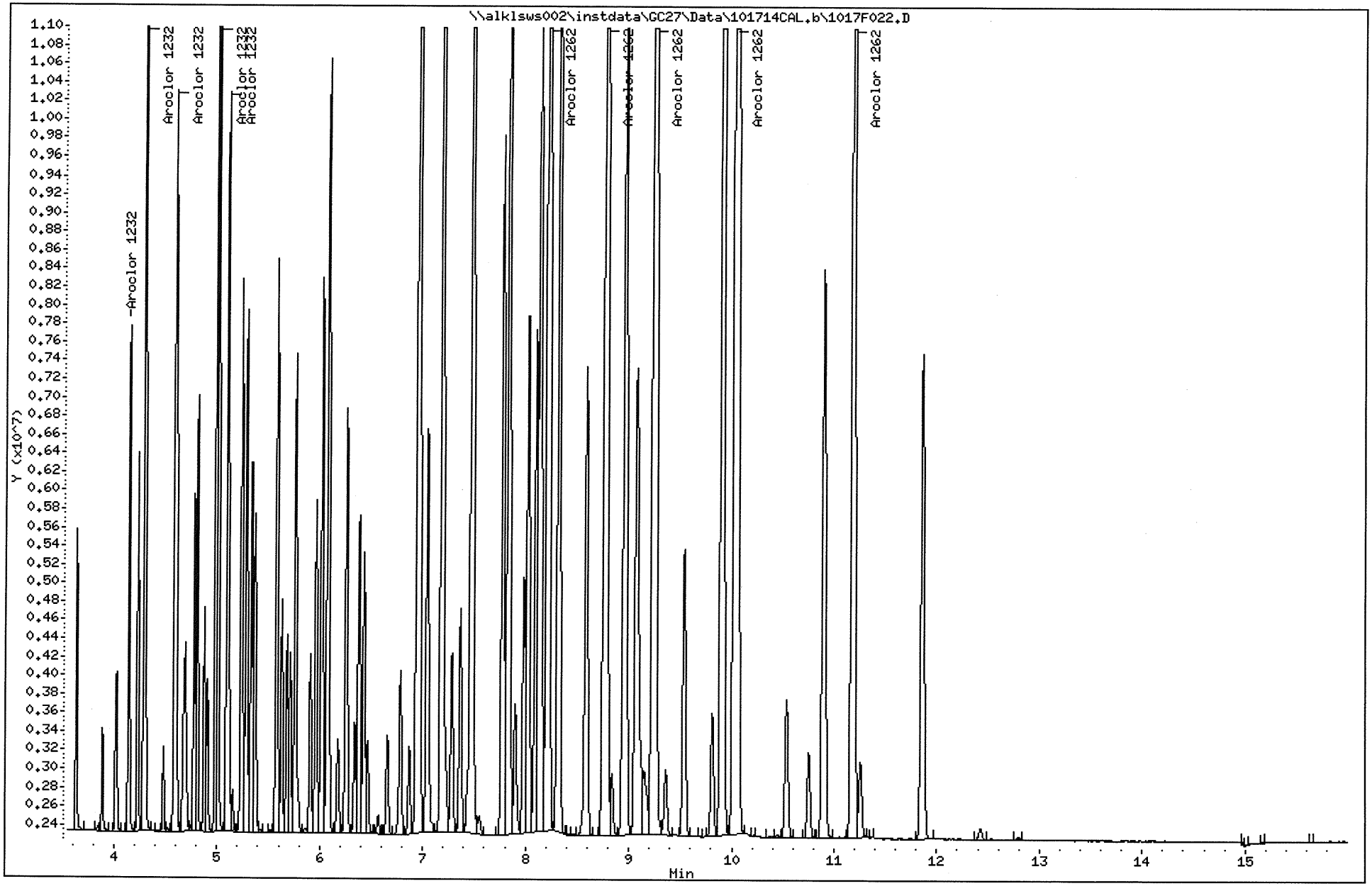
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



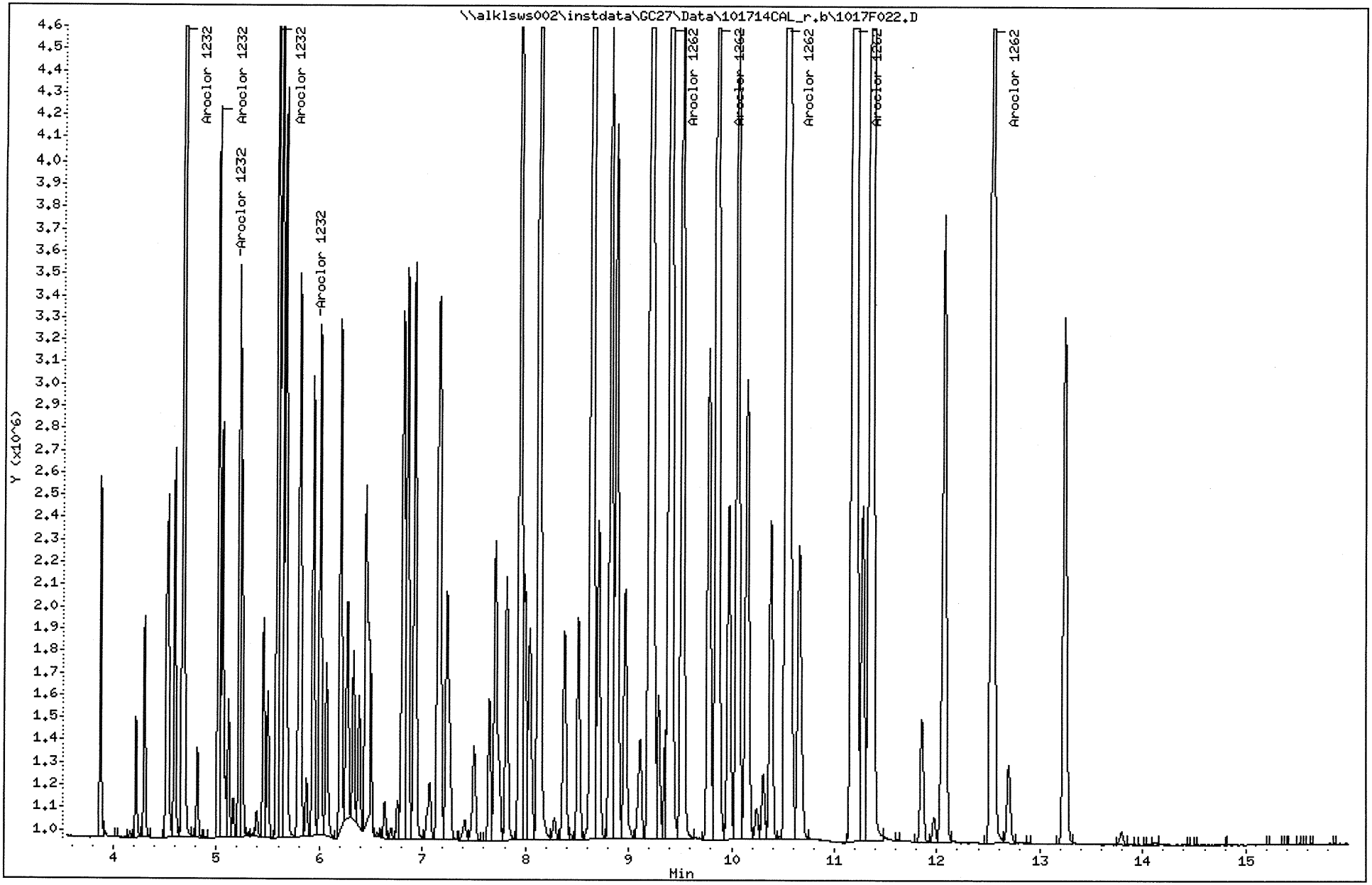
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

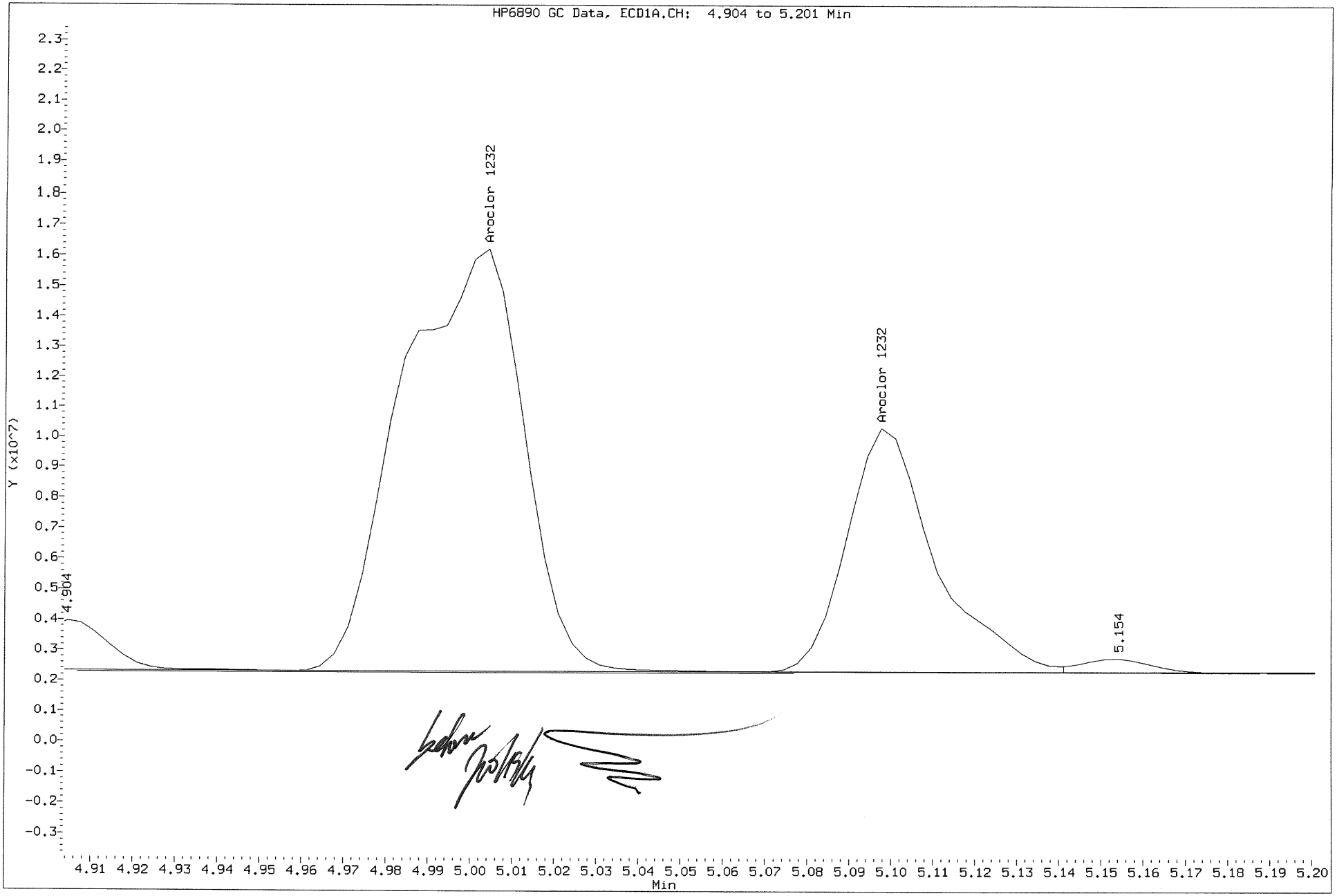
Operator: JMSmith

Column phase: DB-XLB

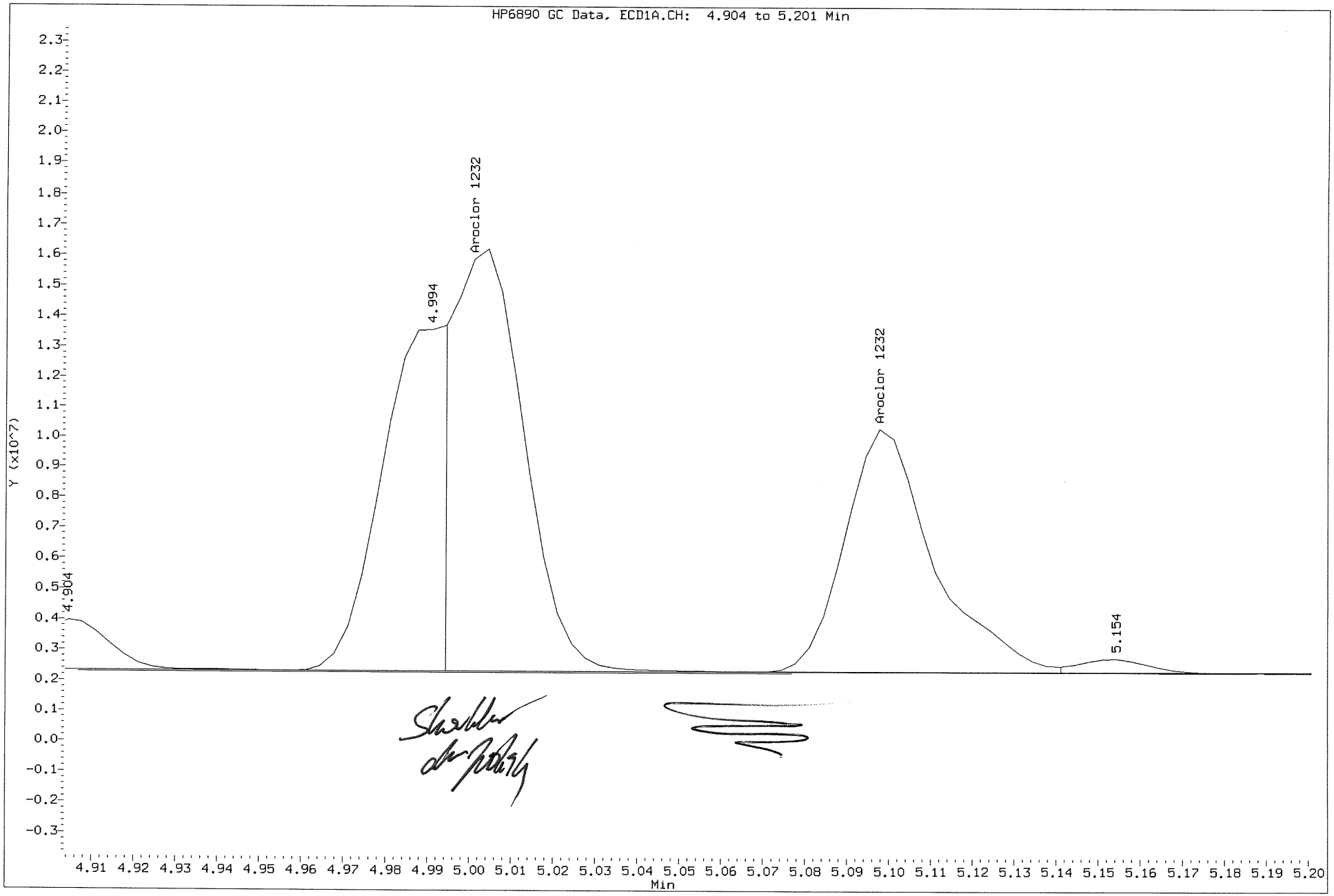
Column diameter: 0.32



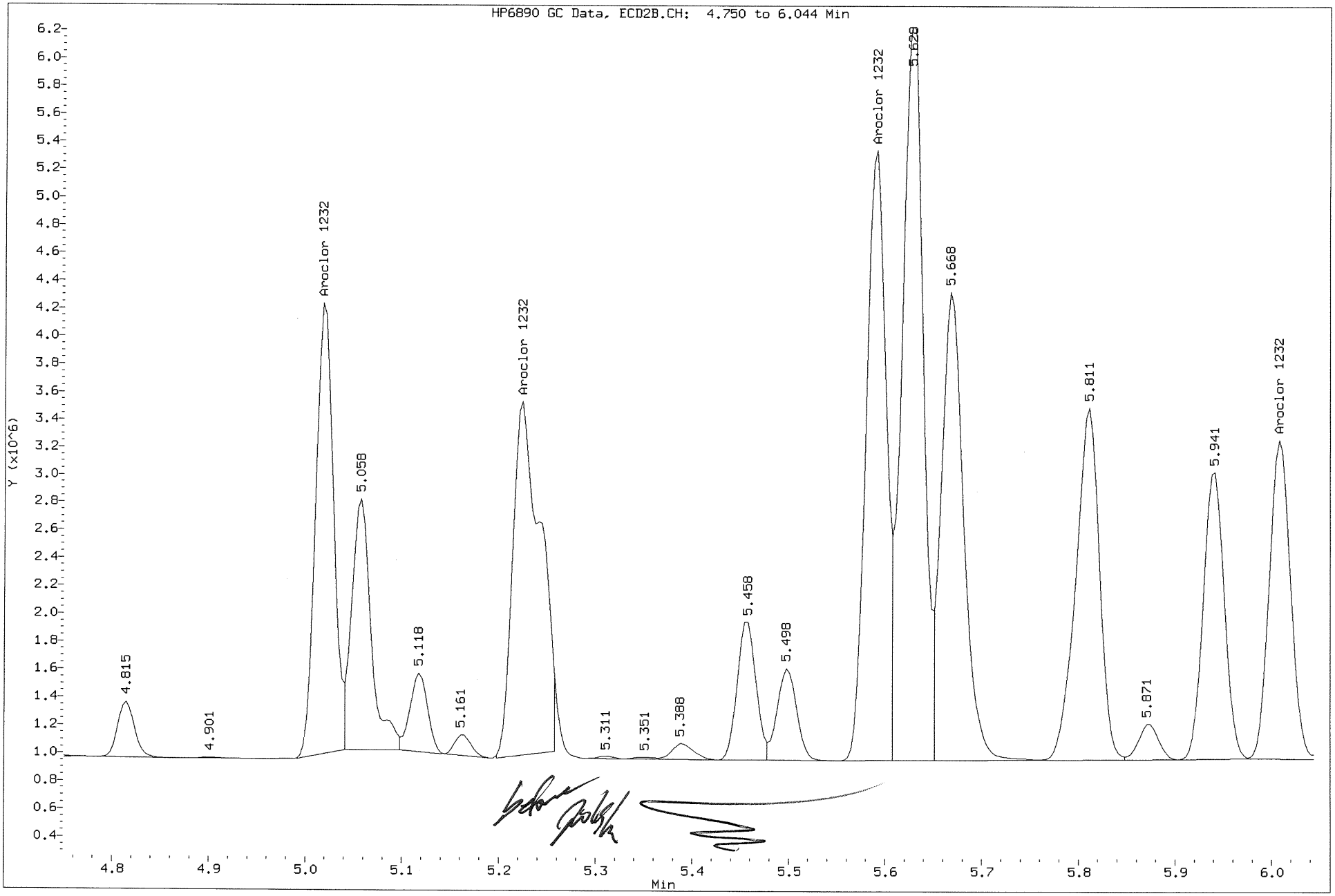
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



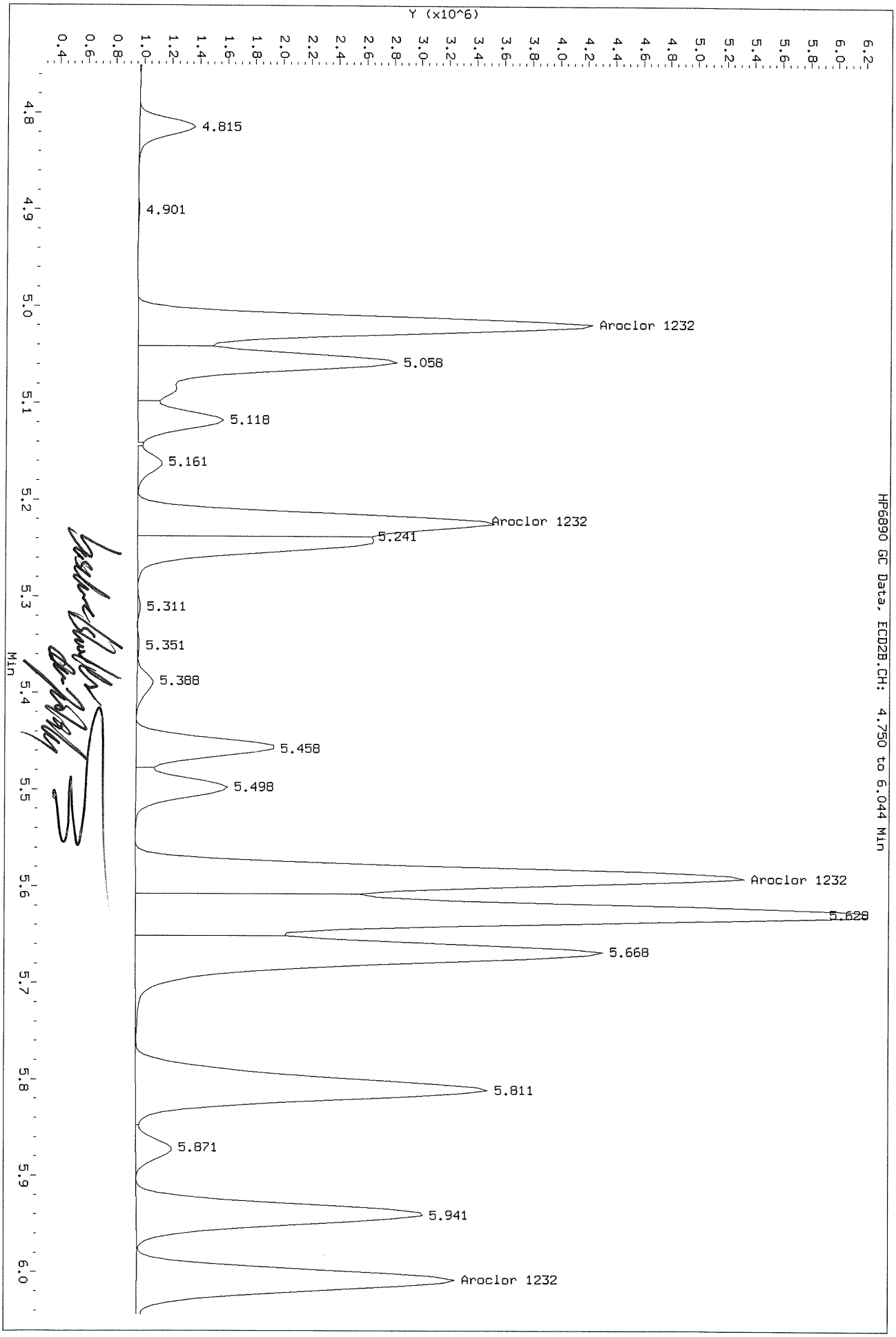
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.750 to 6.044 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

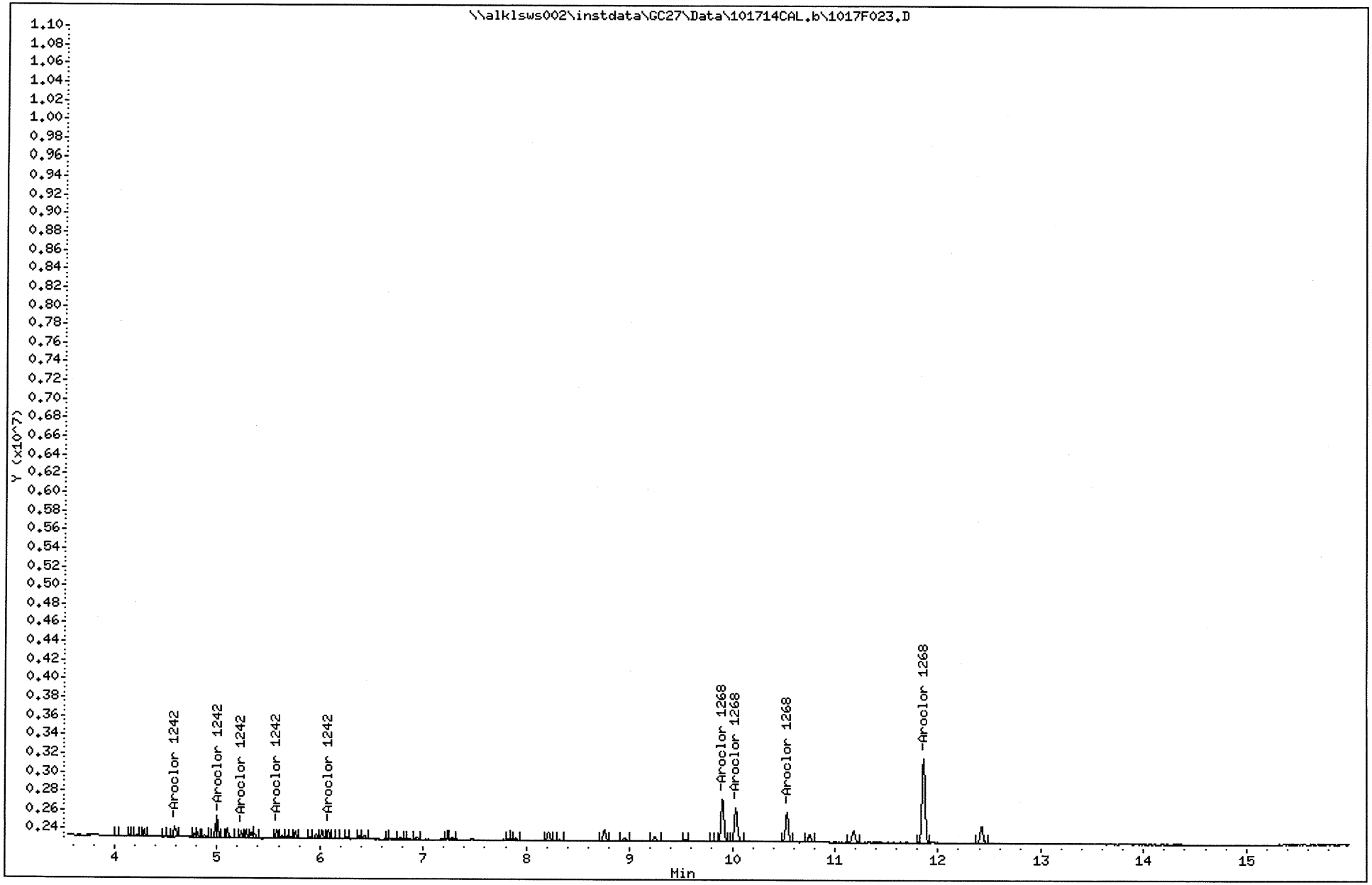
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



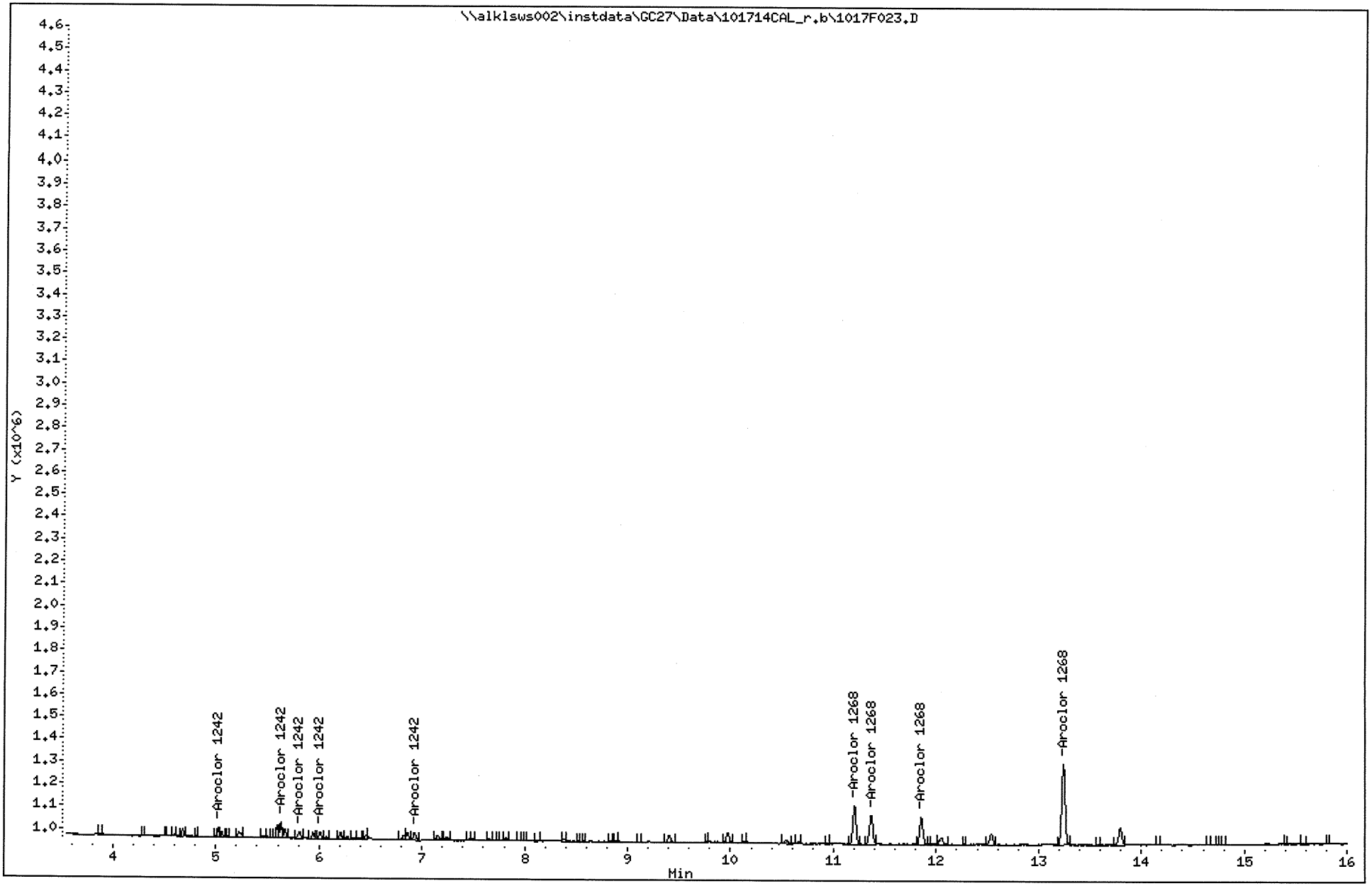
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
			Average of Peak Amounts =		56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
			Average of Peak Amounts =		59.0	52.4		

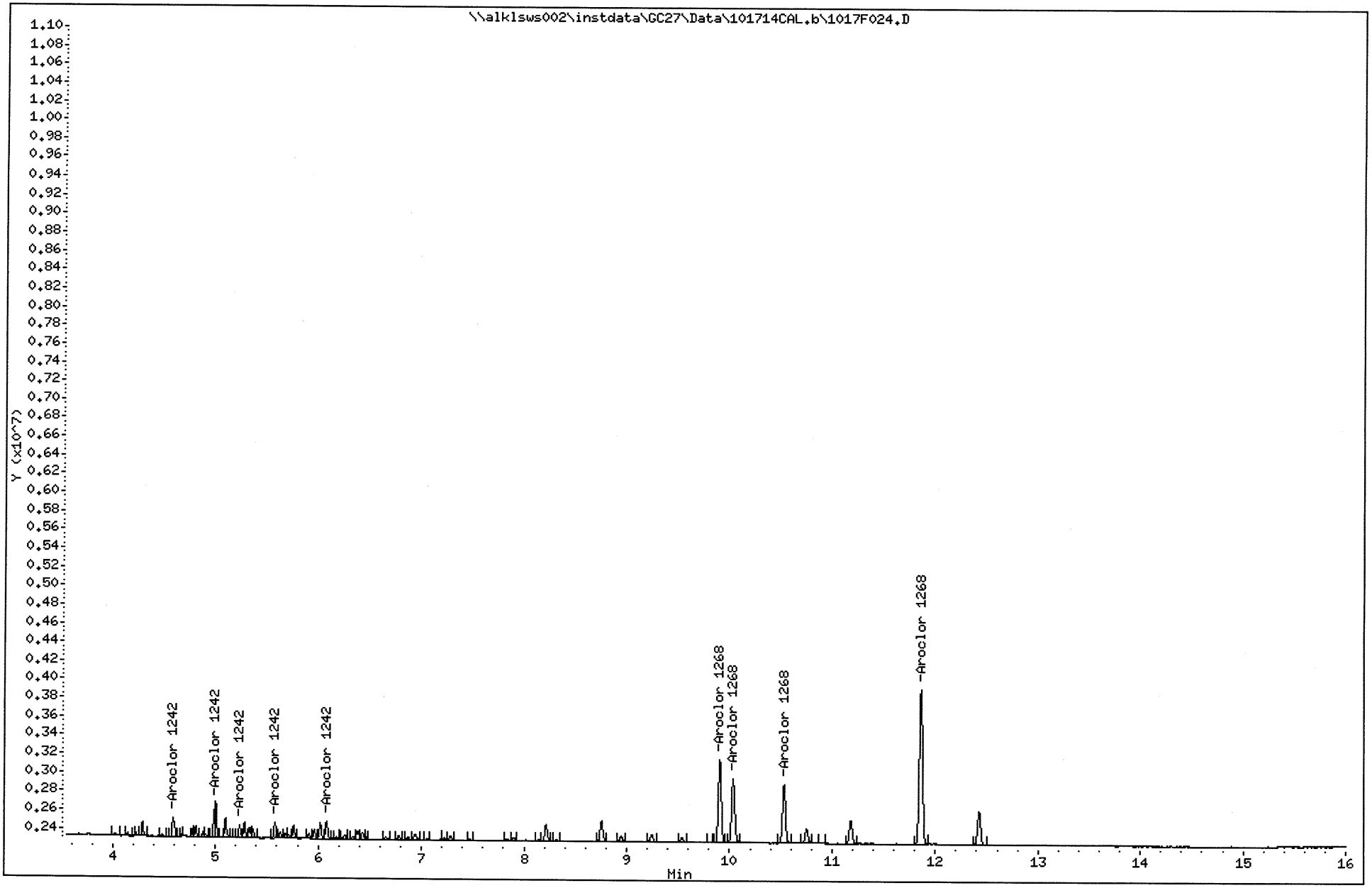
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



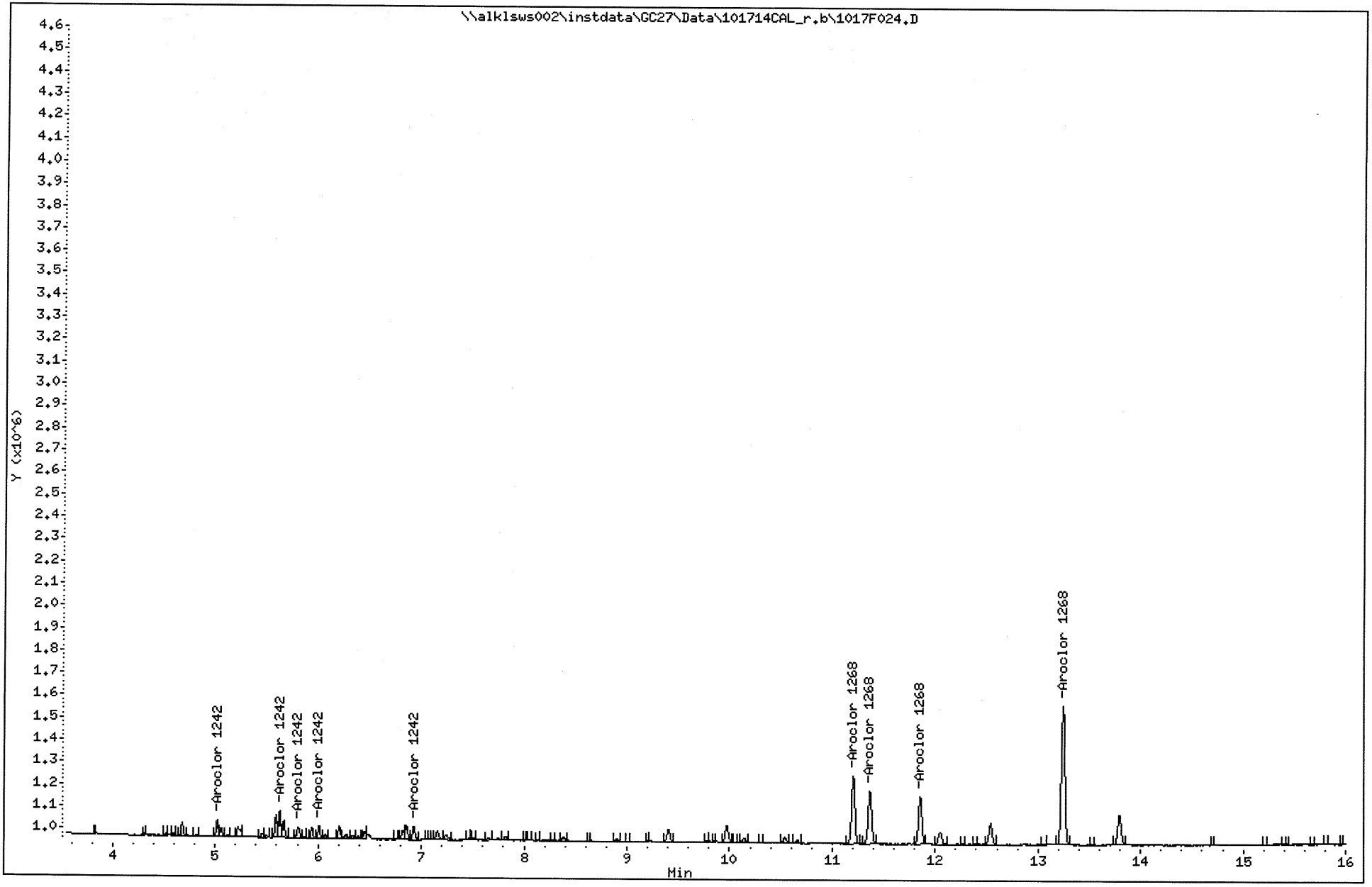
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

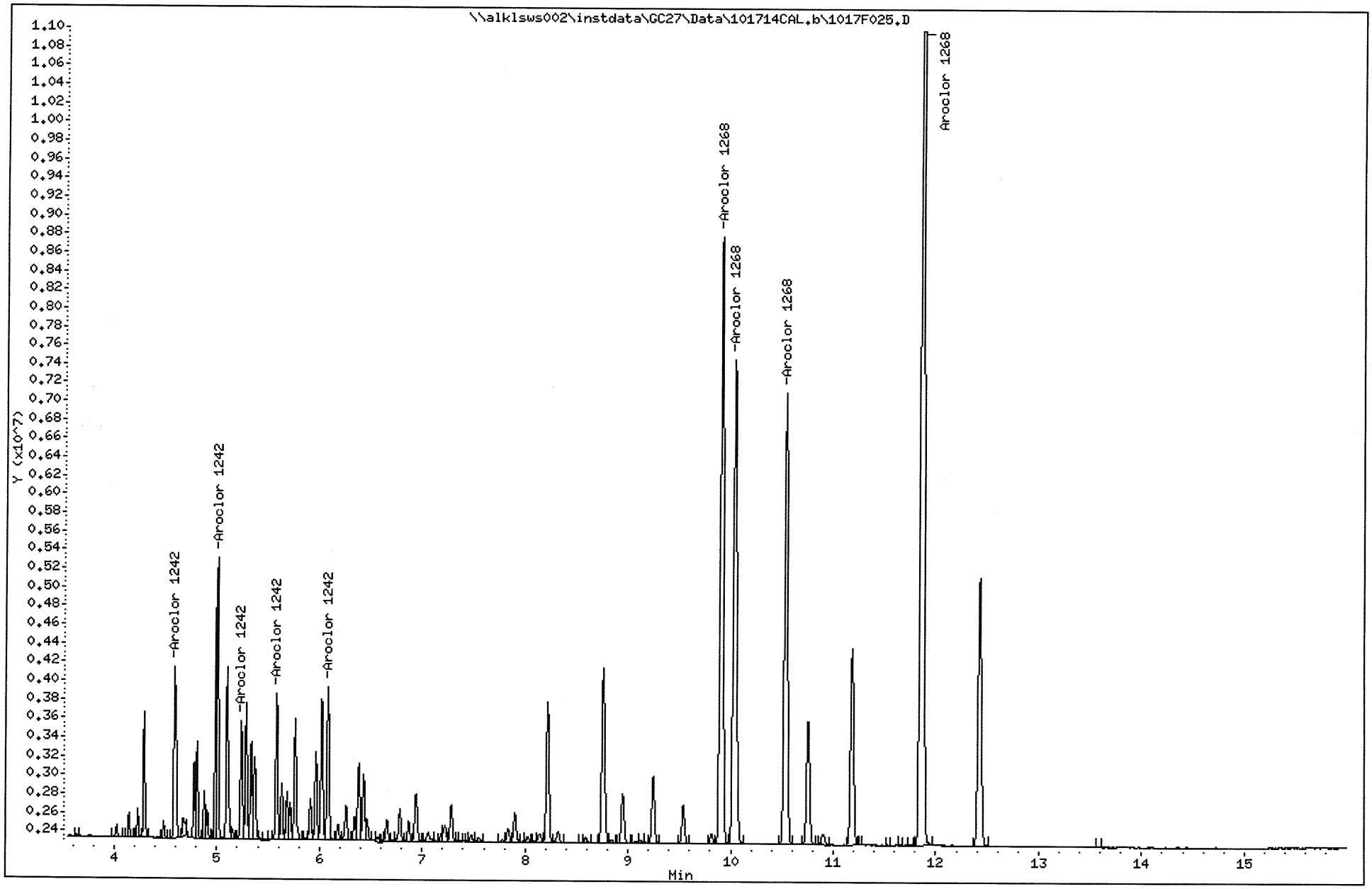
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

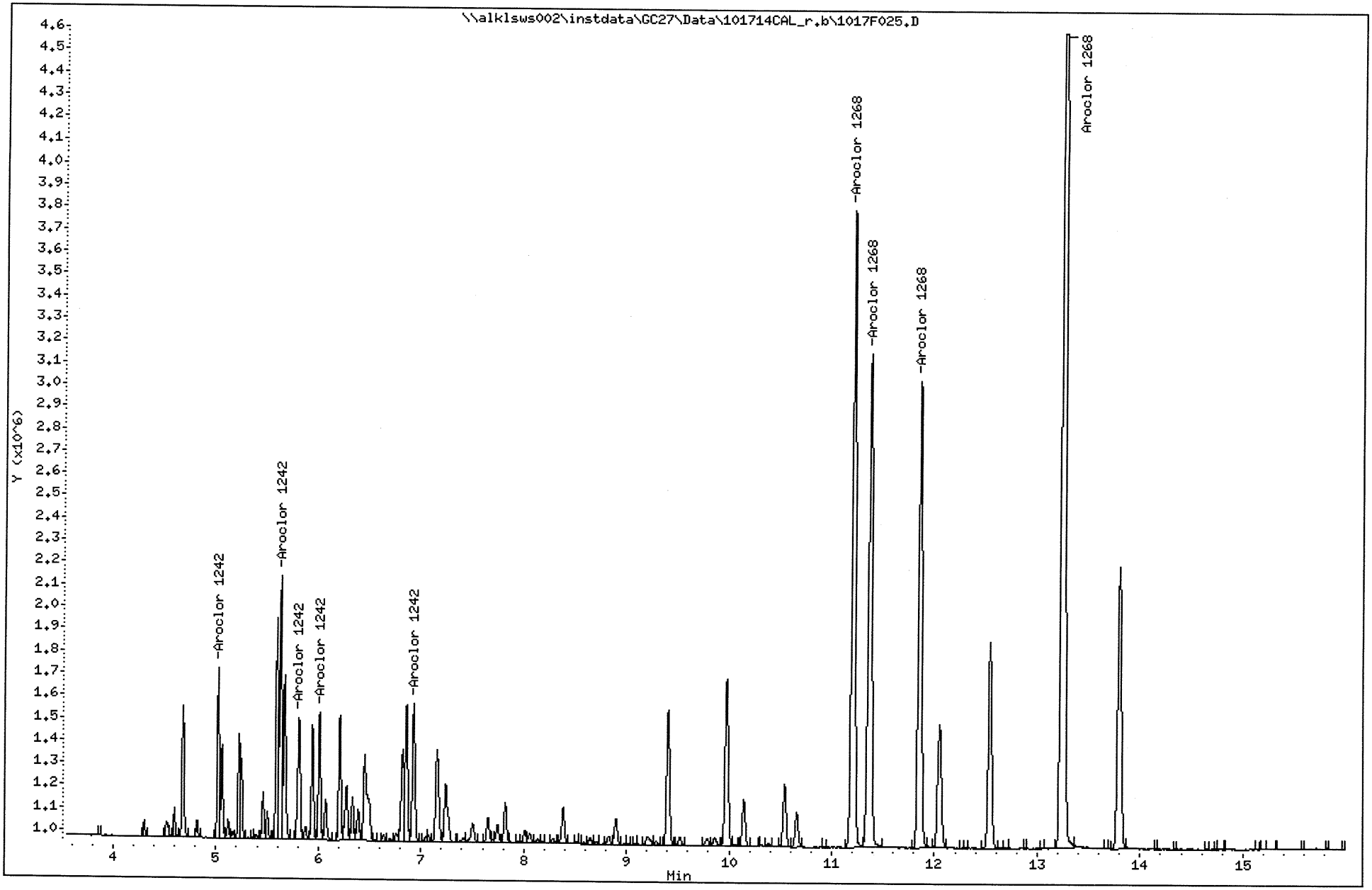


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

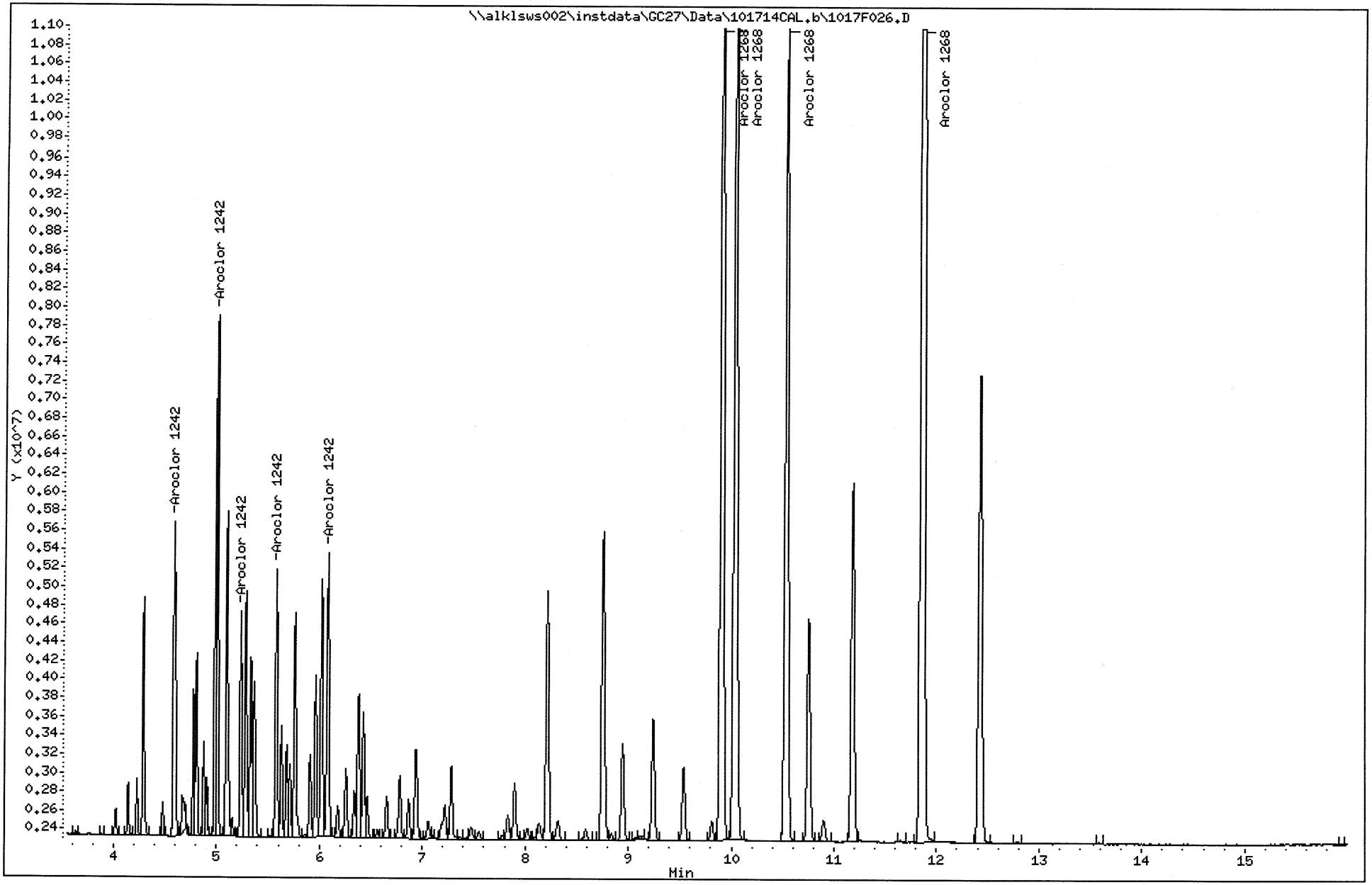
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



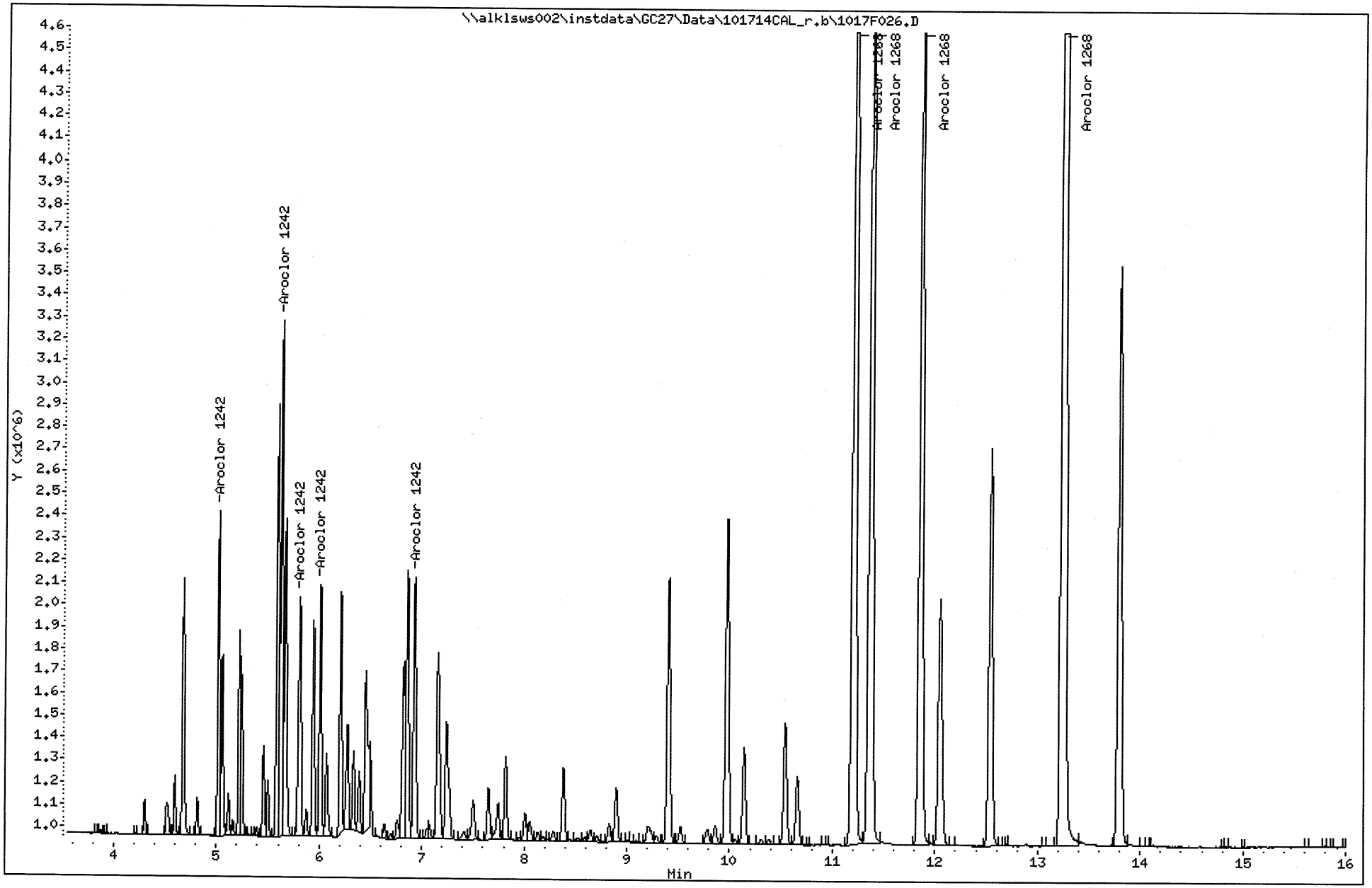
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

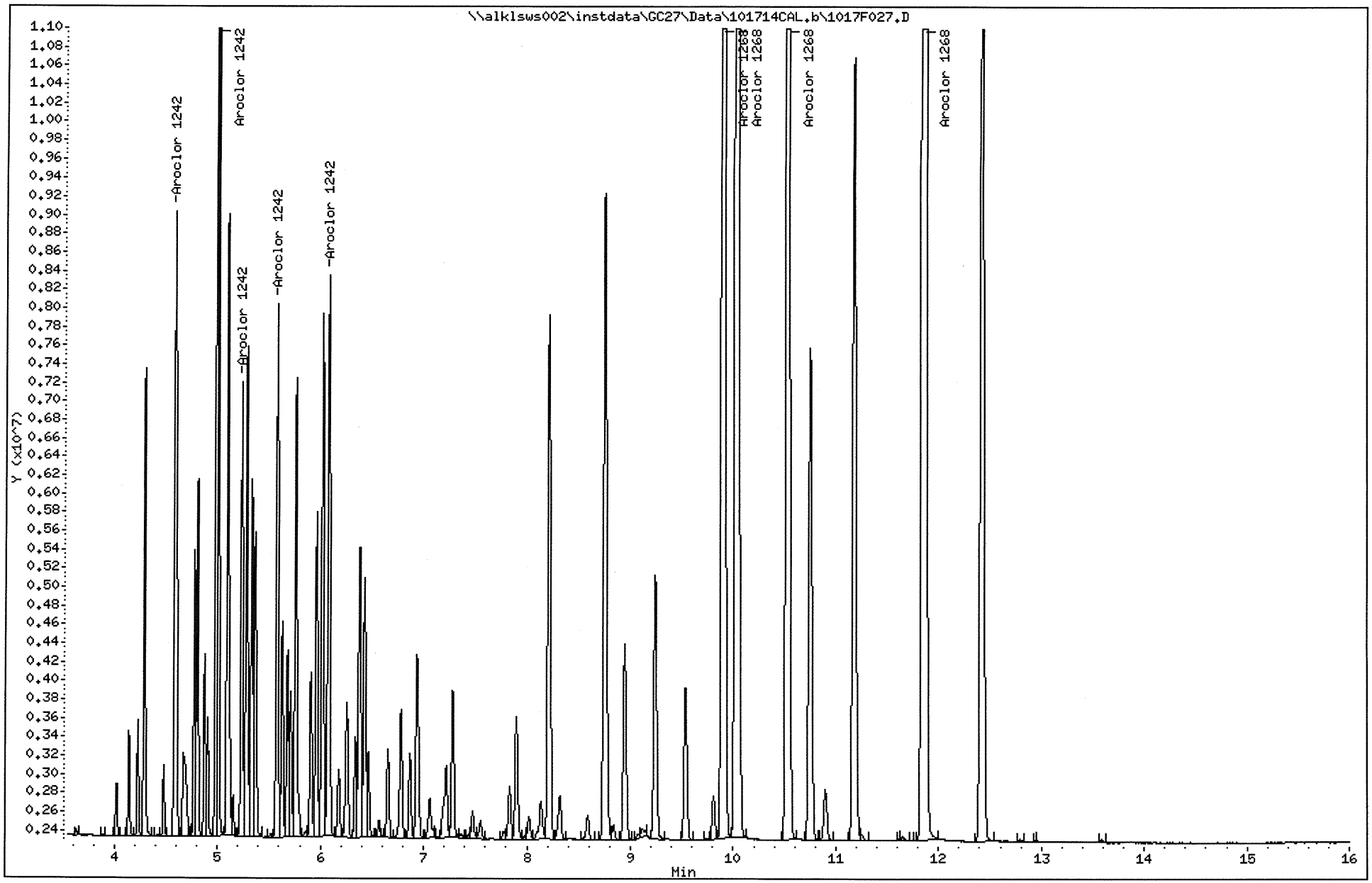
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



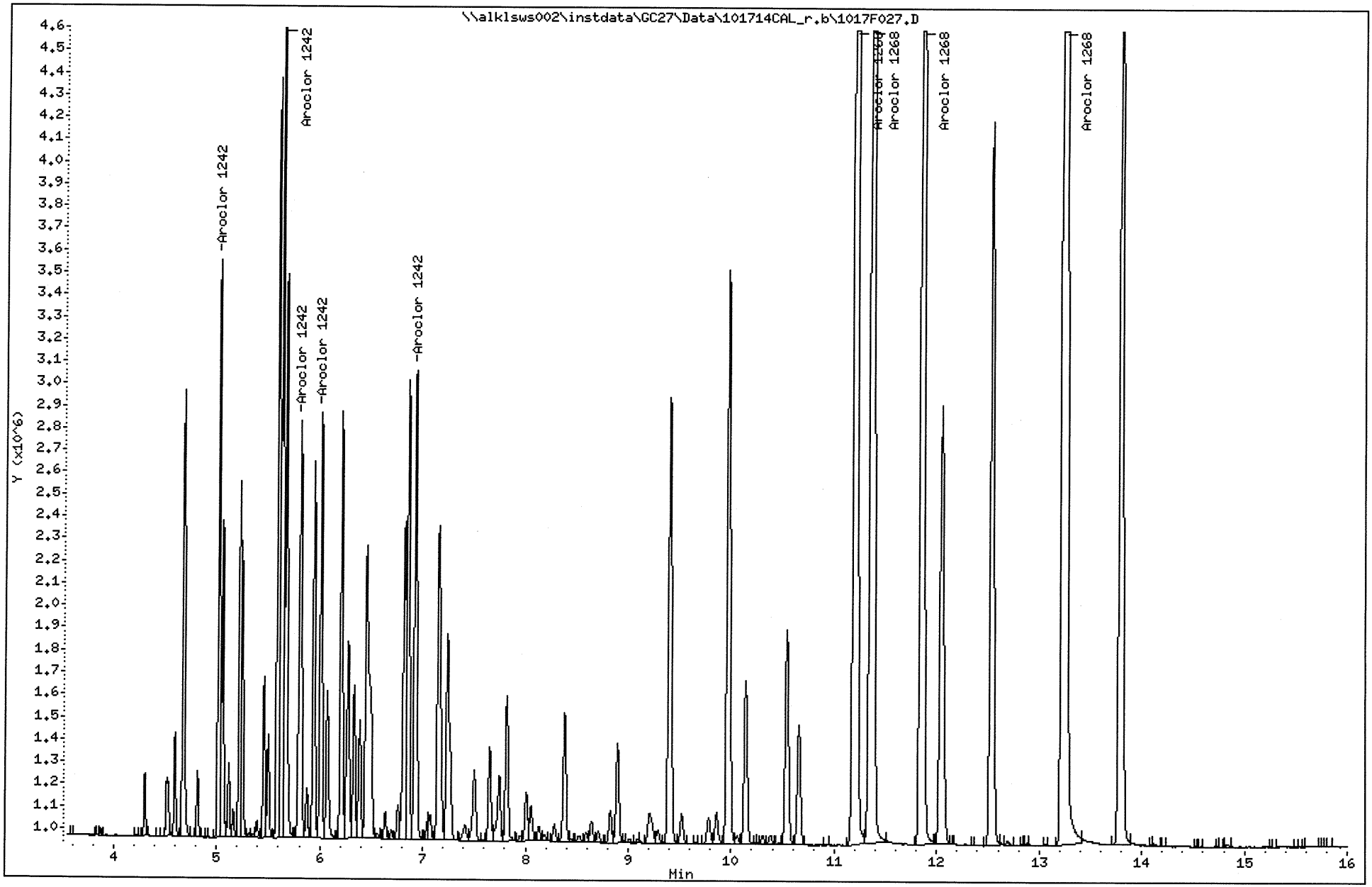
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

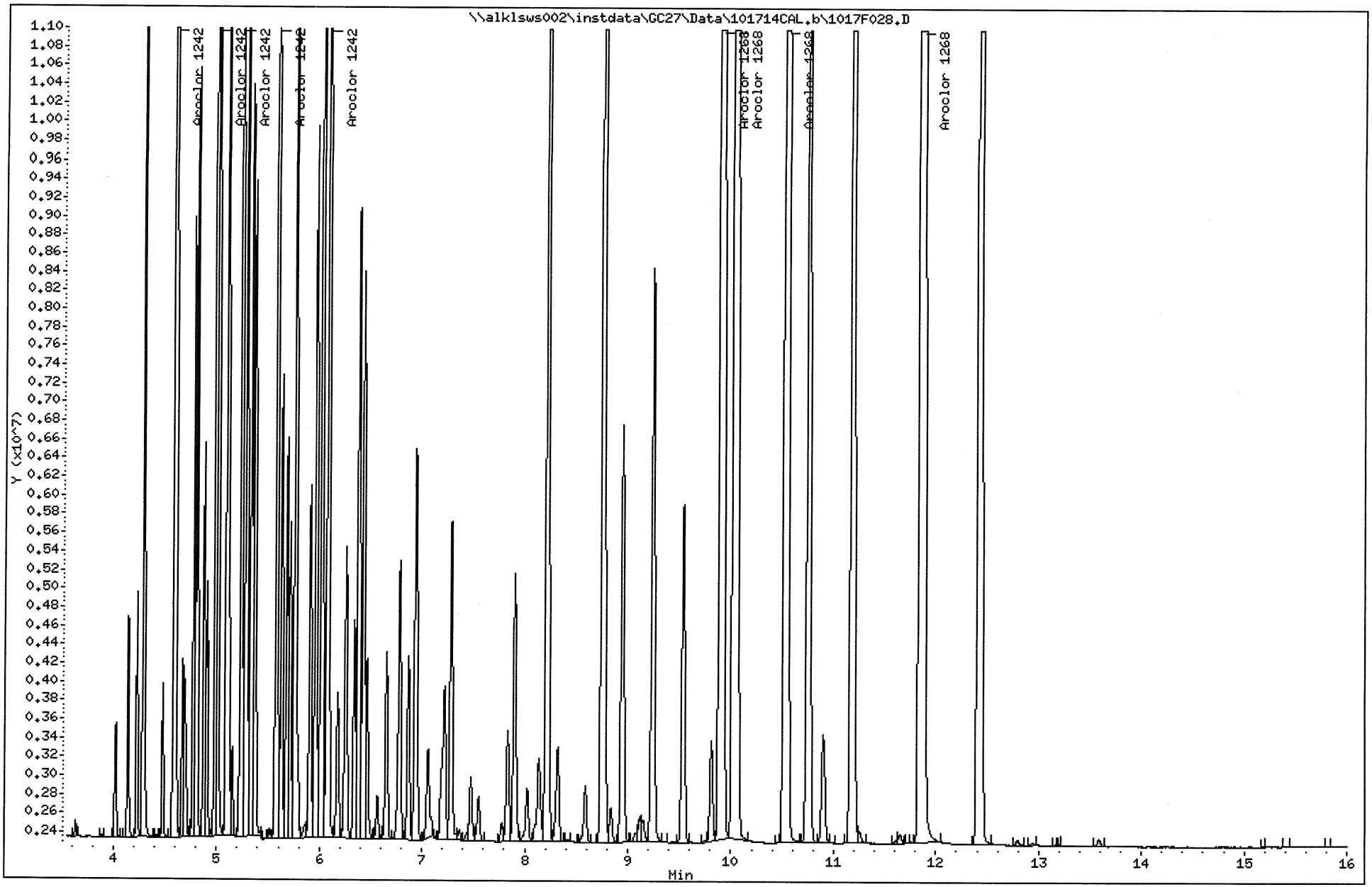
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



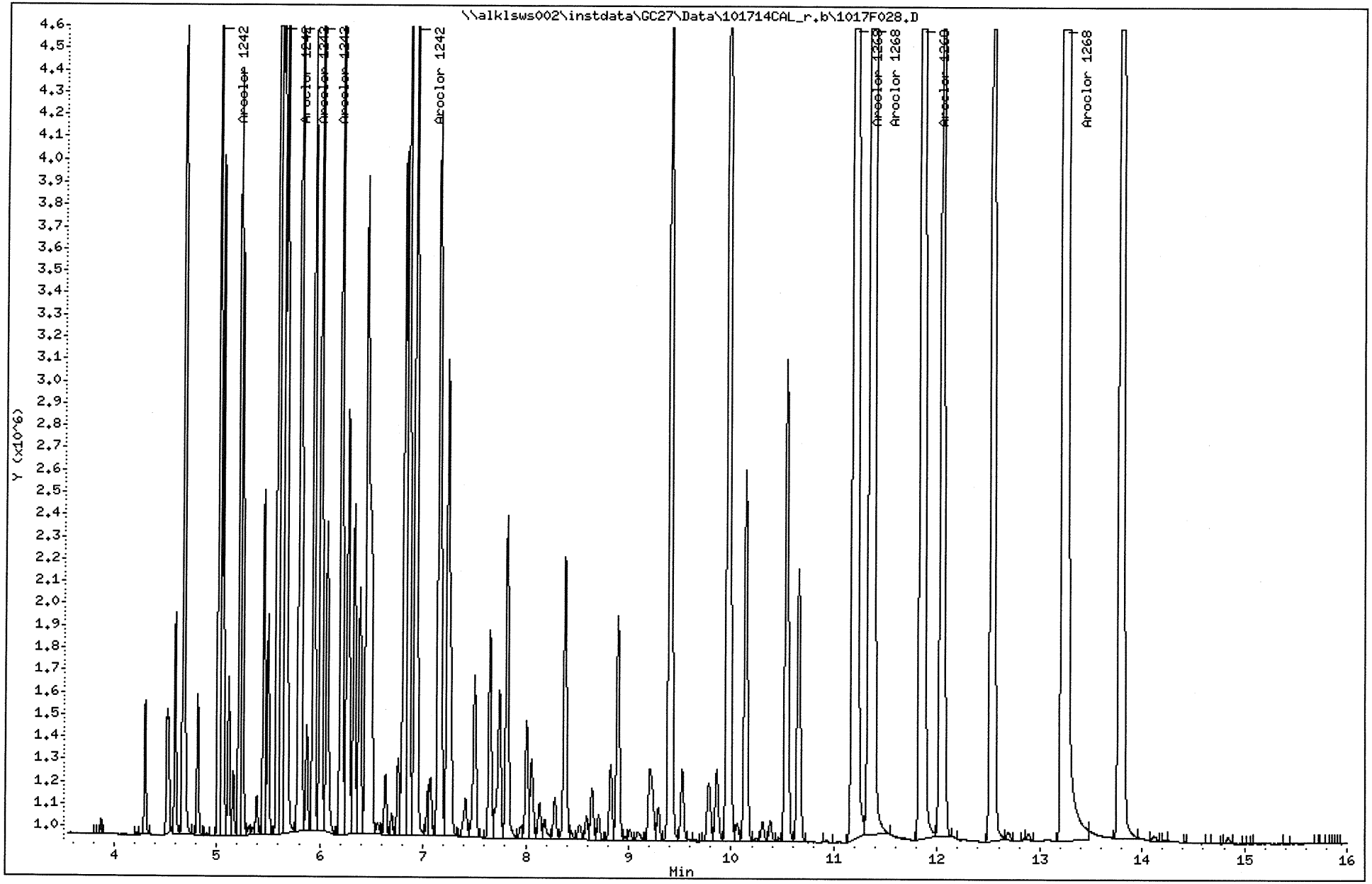
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

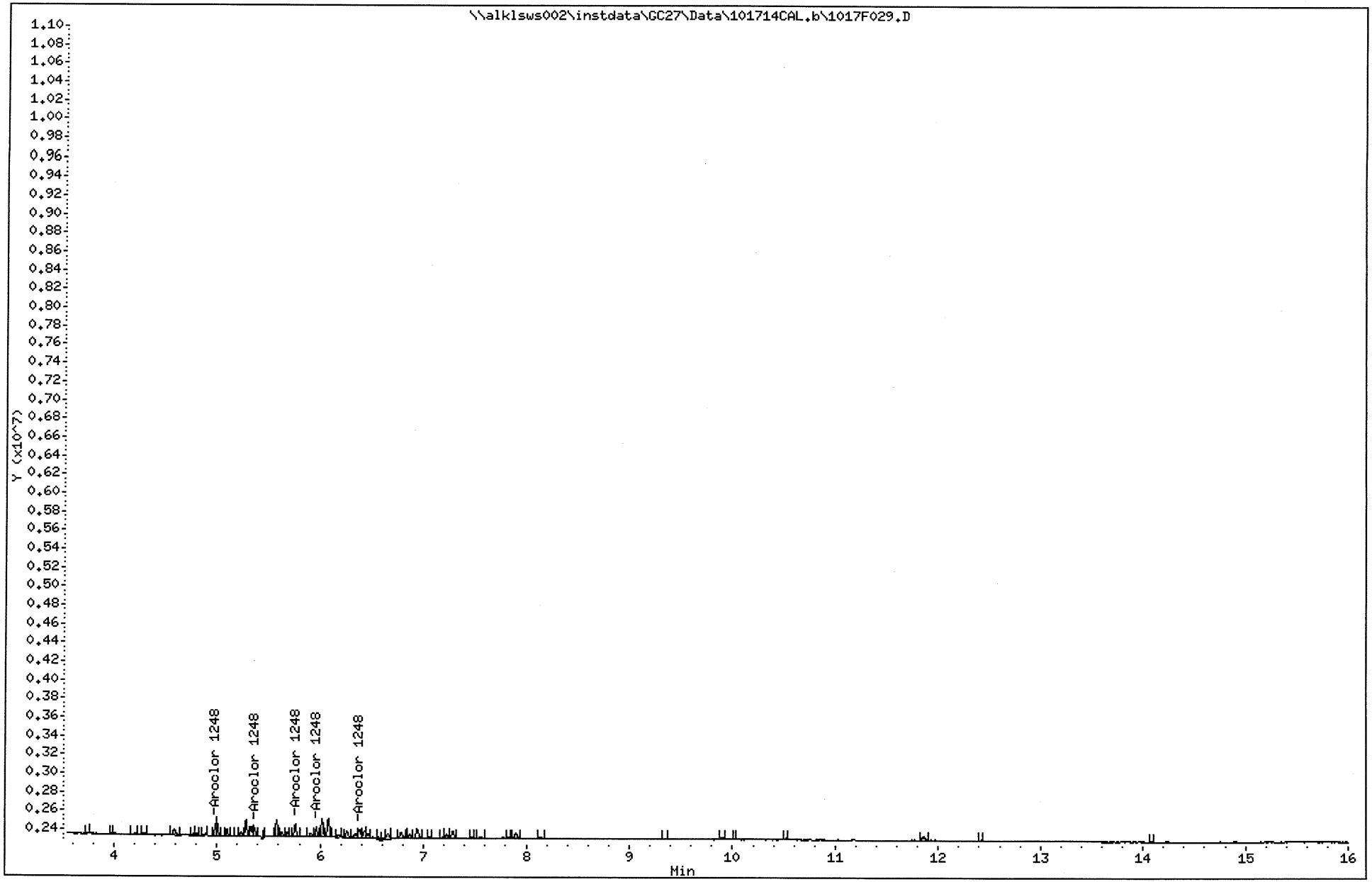
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

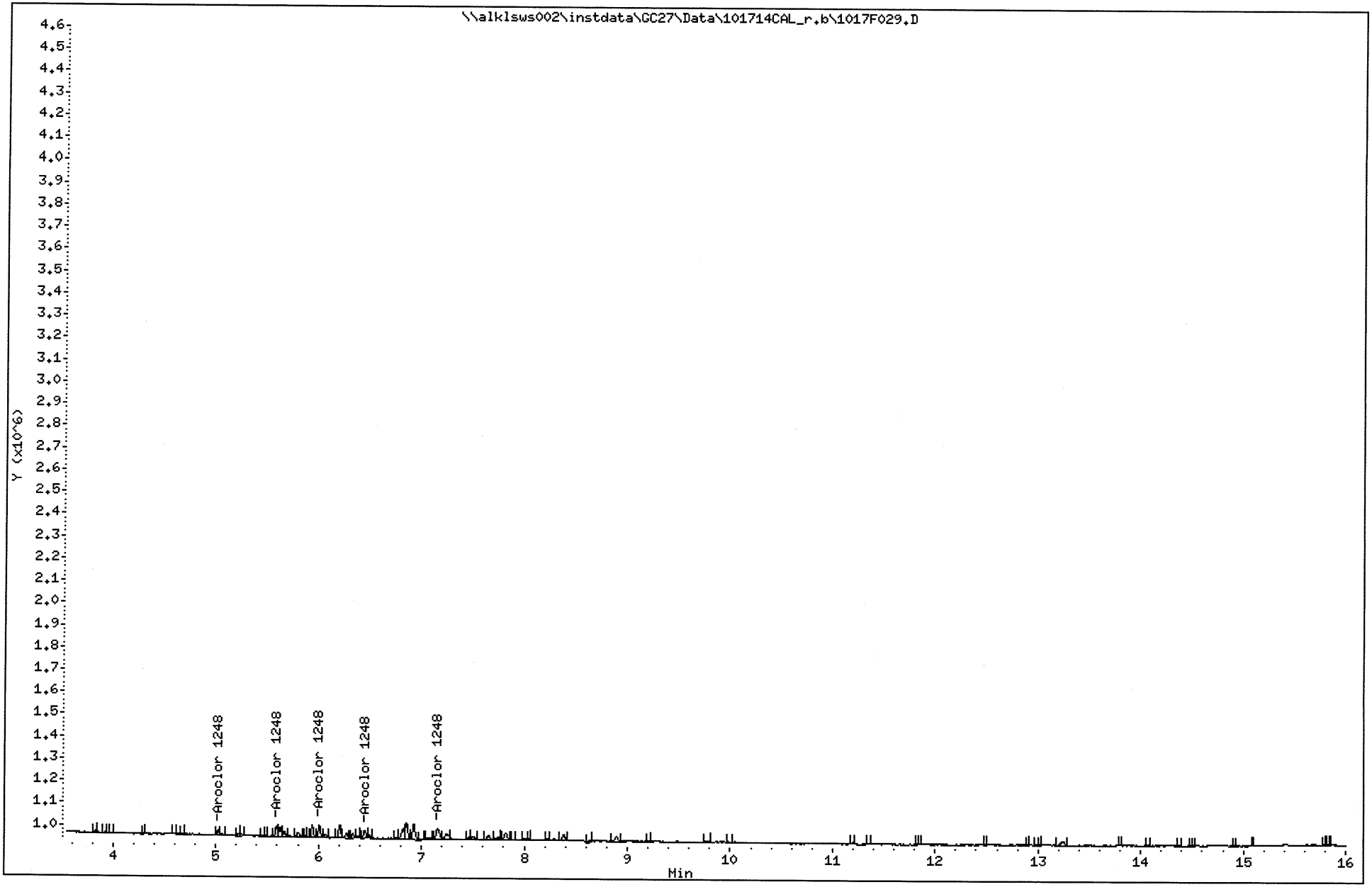


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

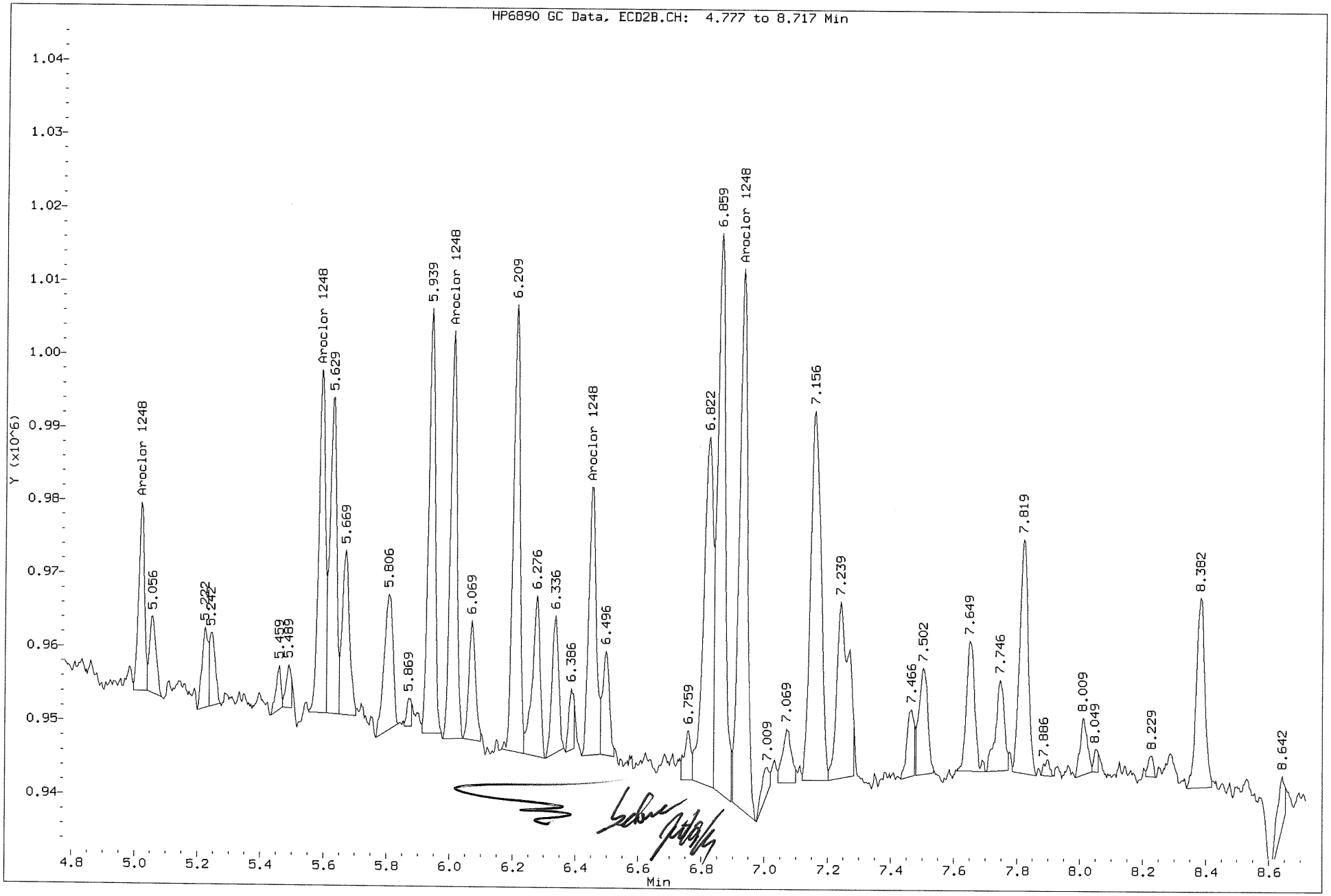
Column phase: DB-XLB

Instrument: GC27.i

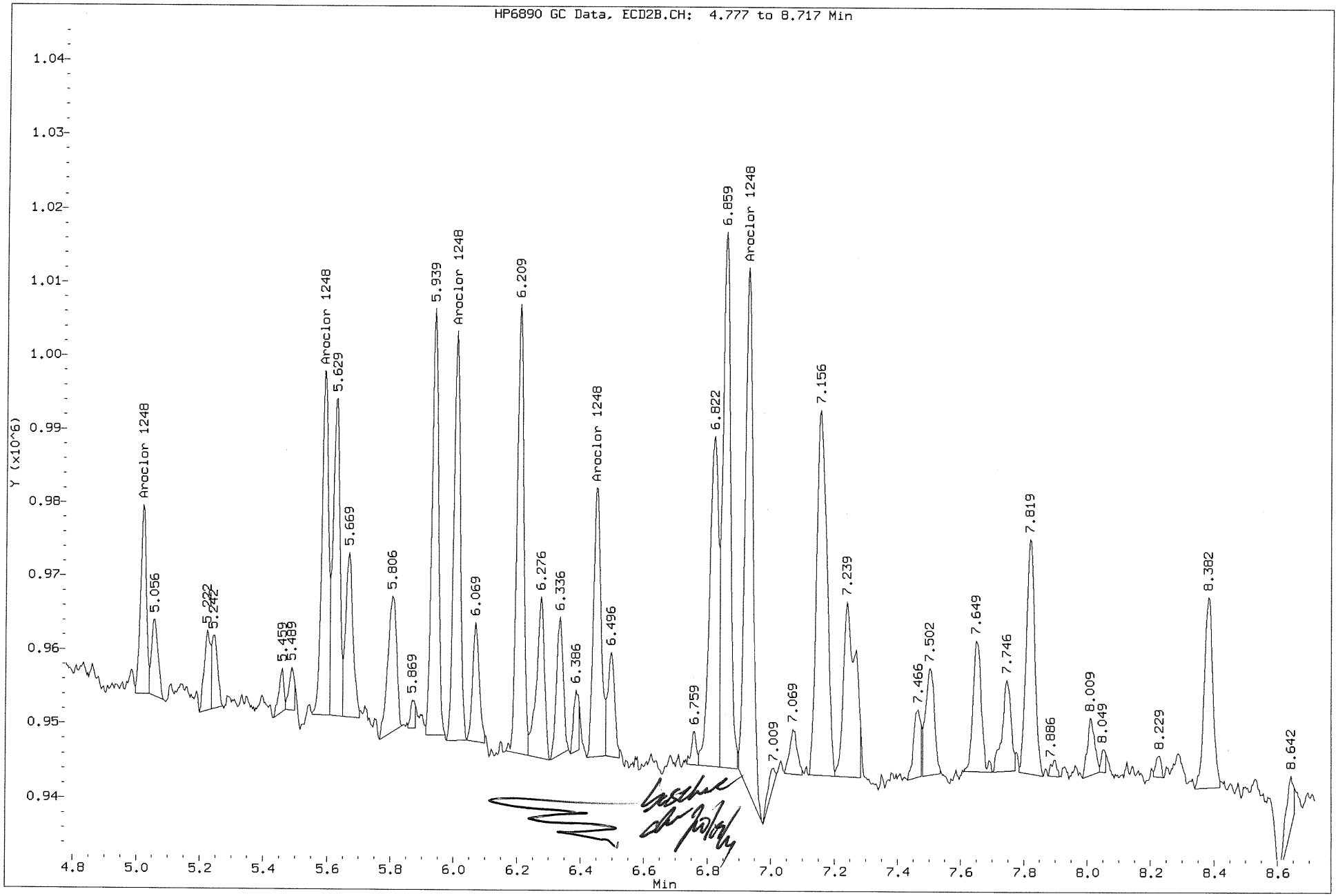
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

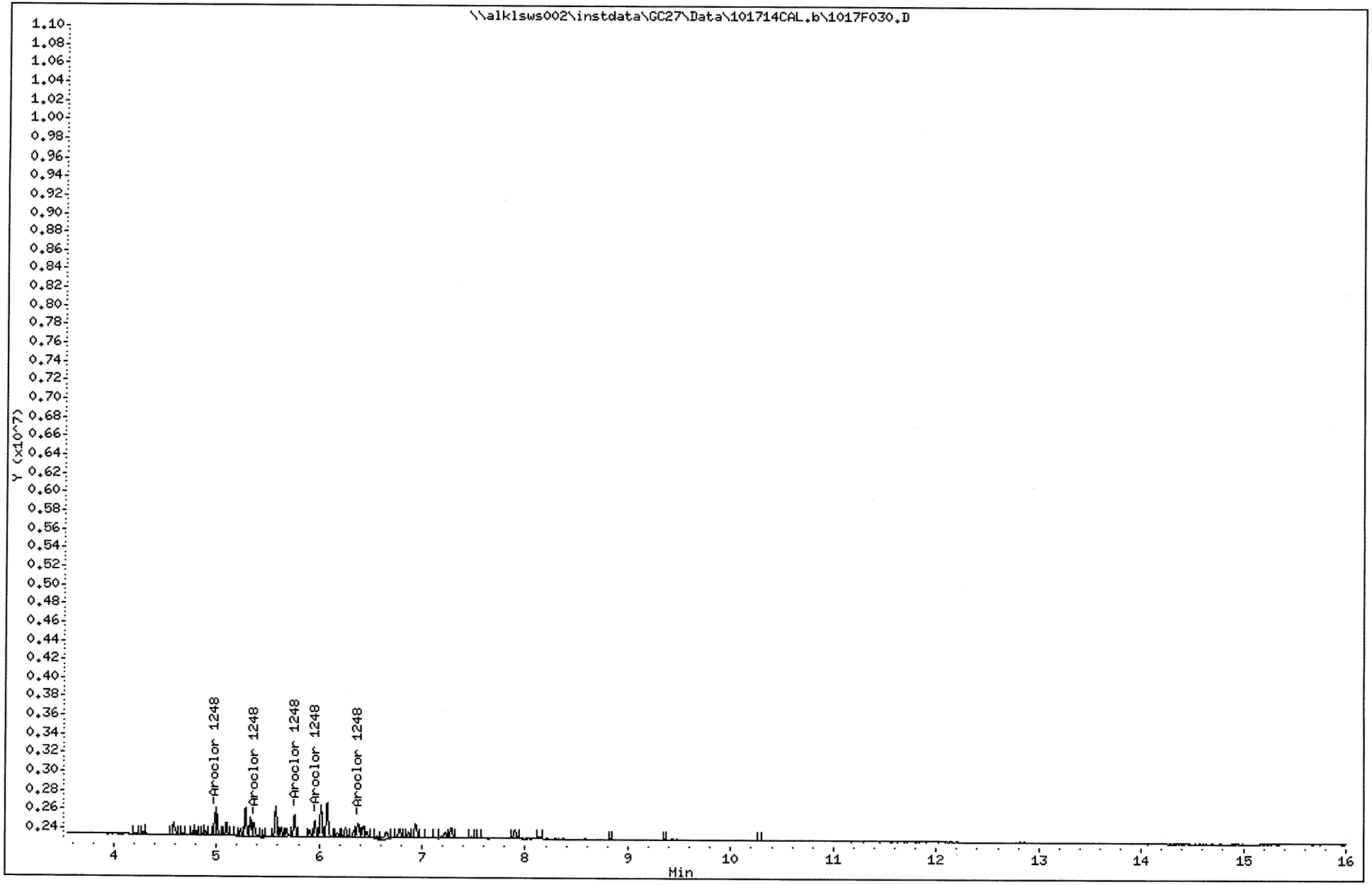
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



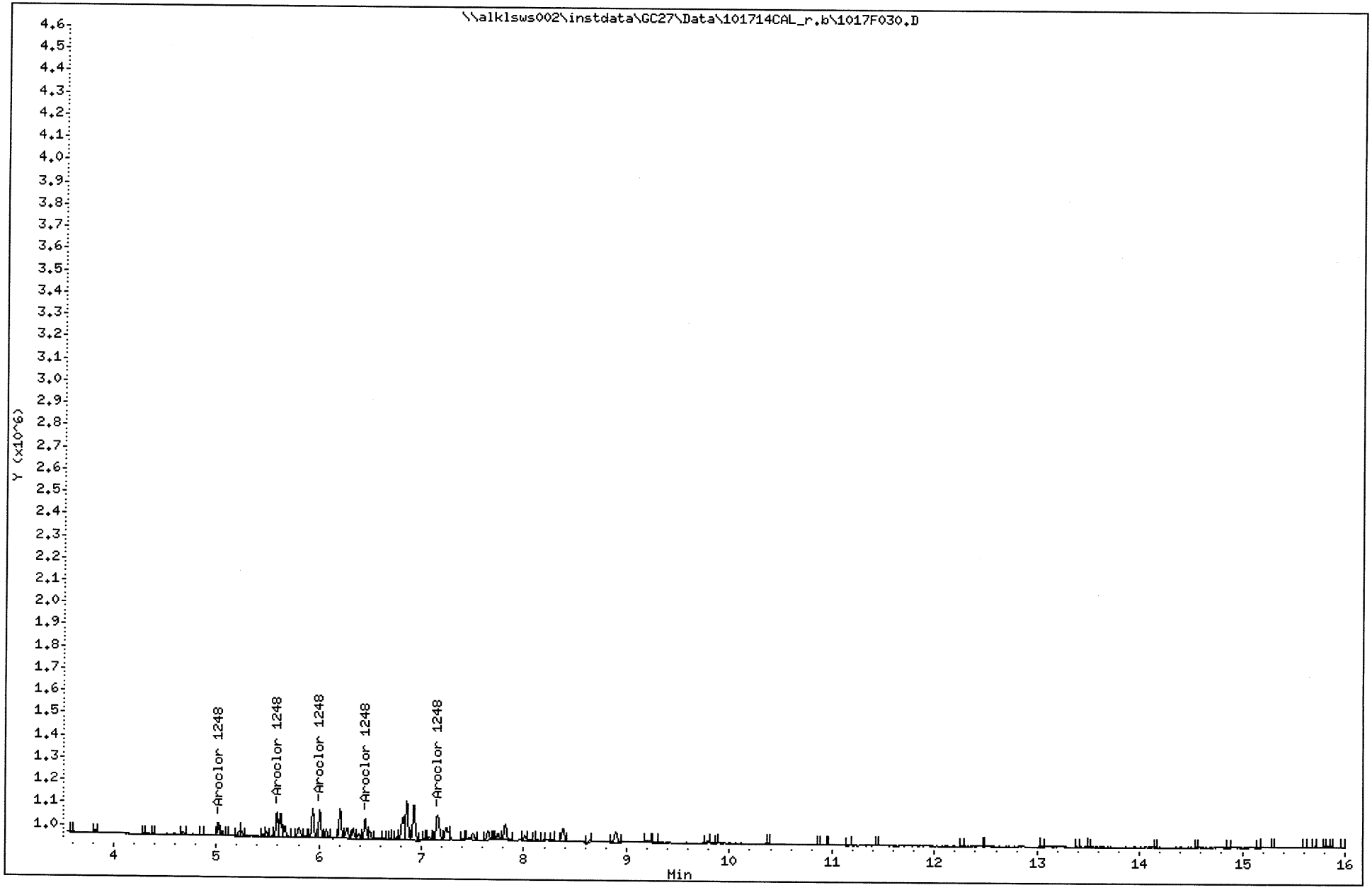
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

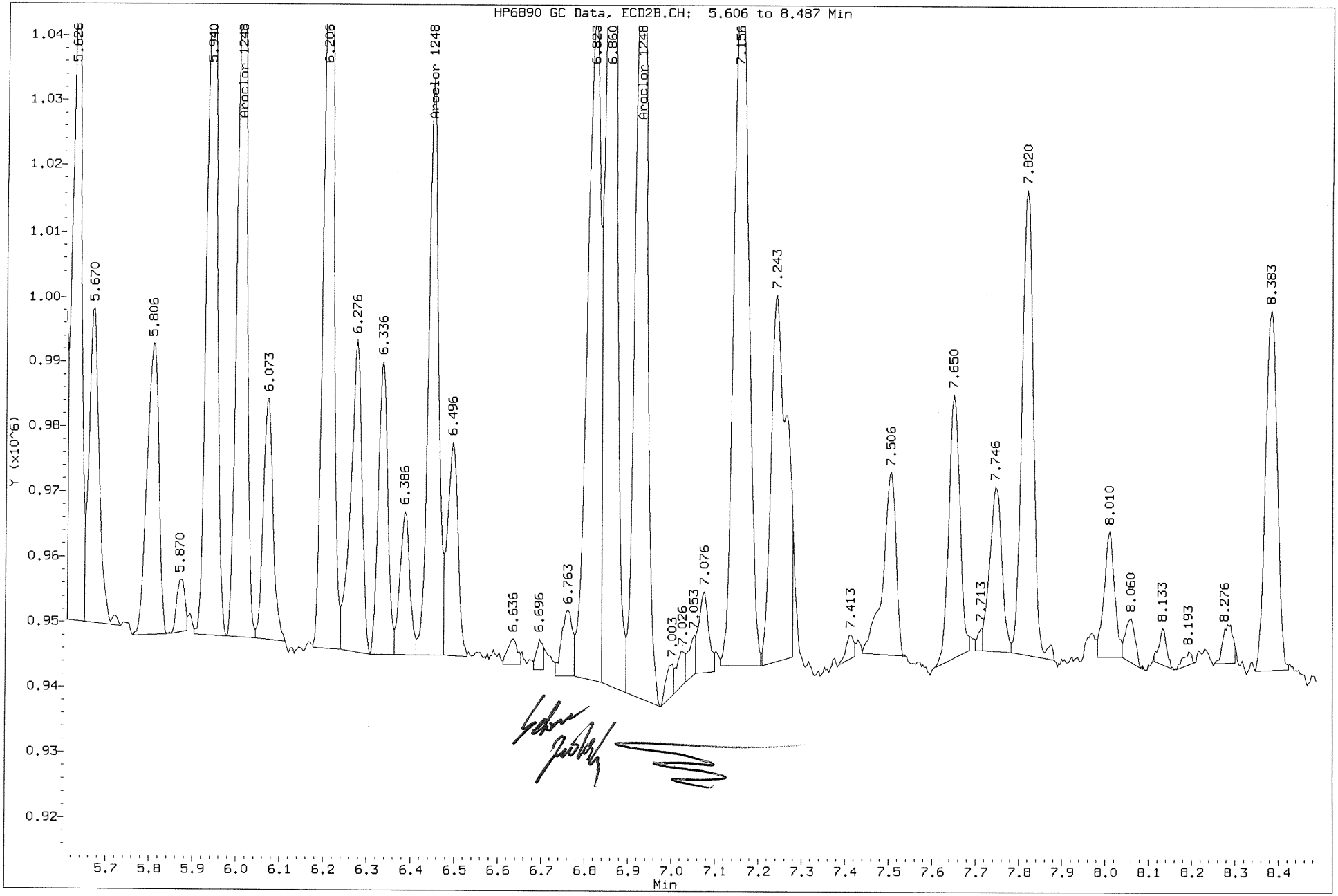
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:



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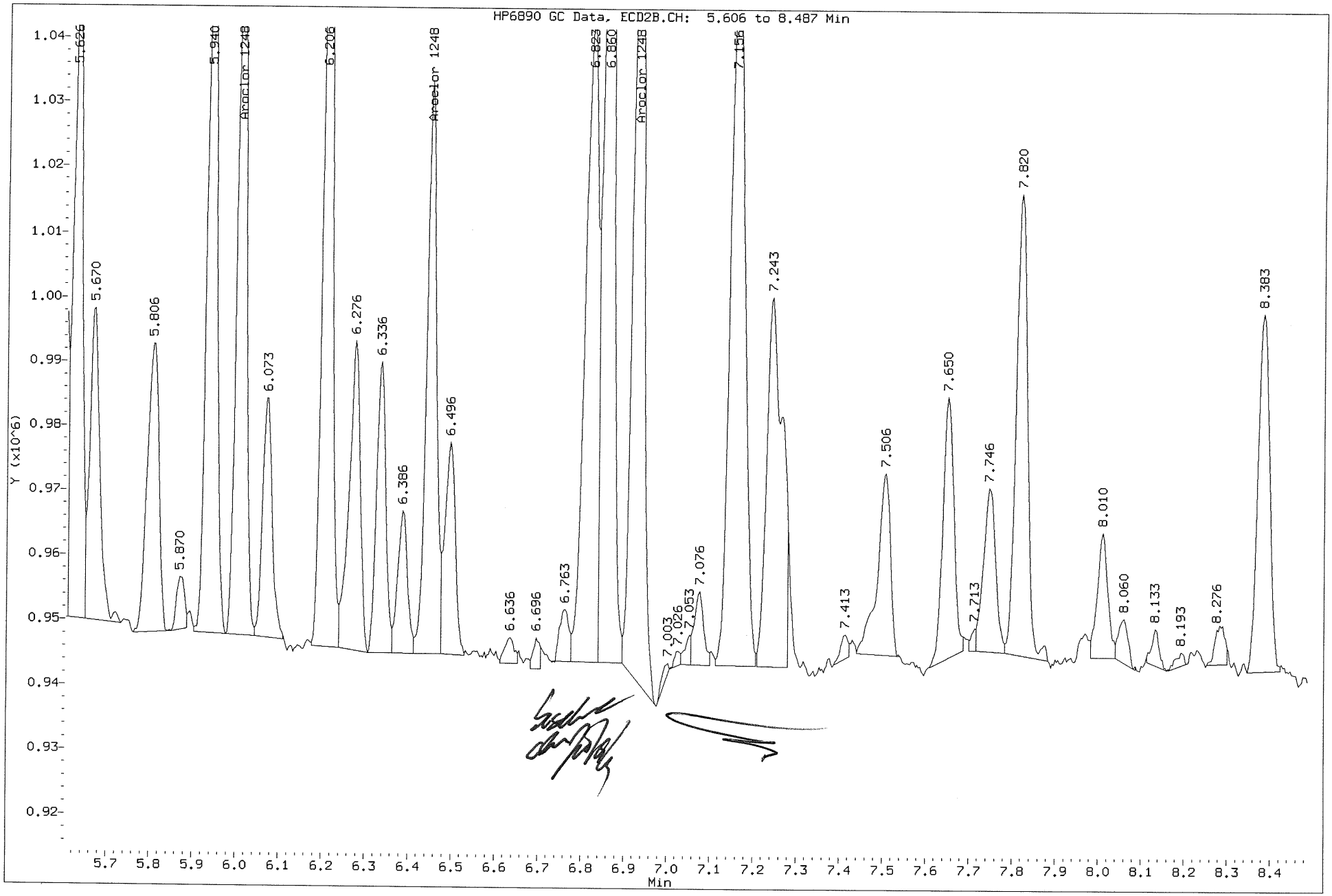
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

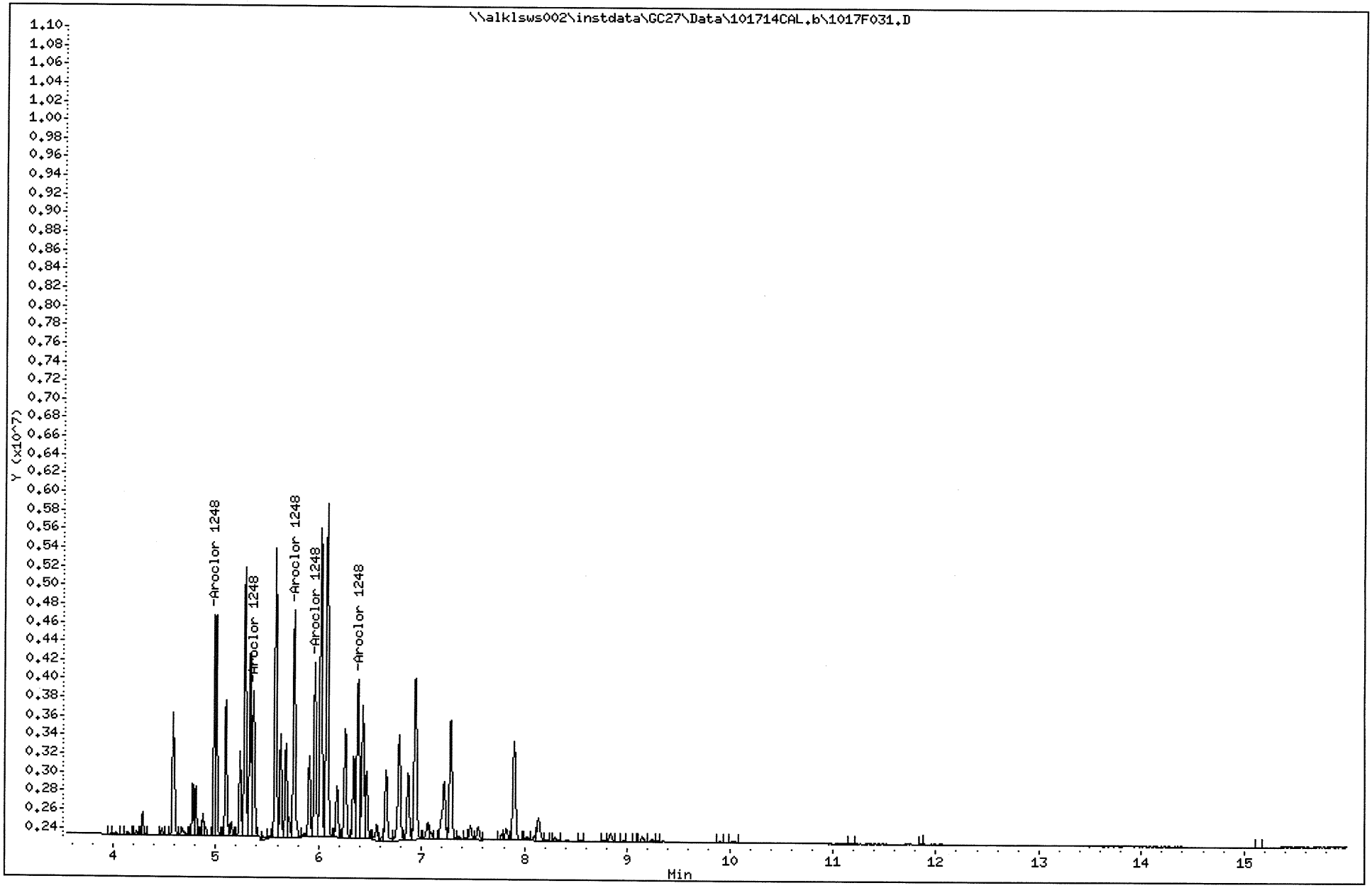
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



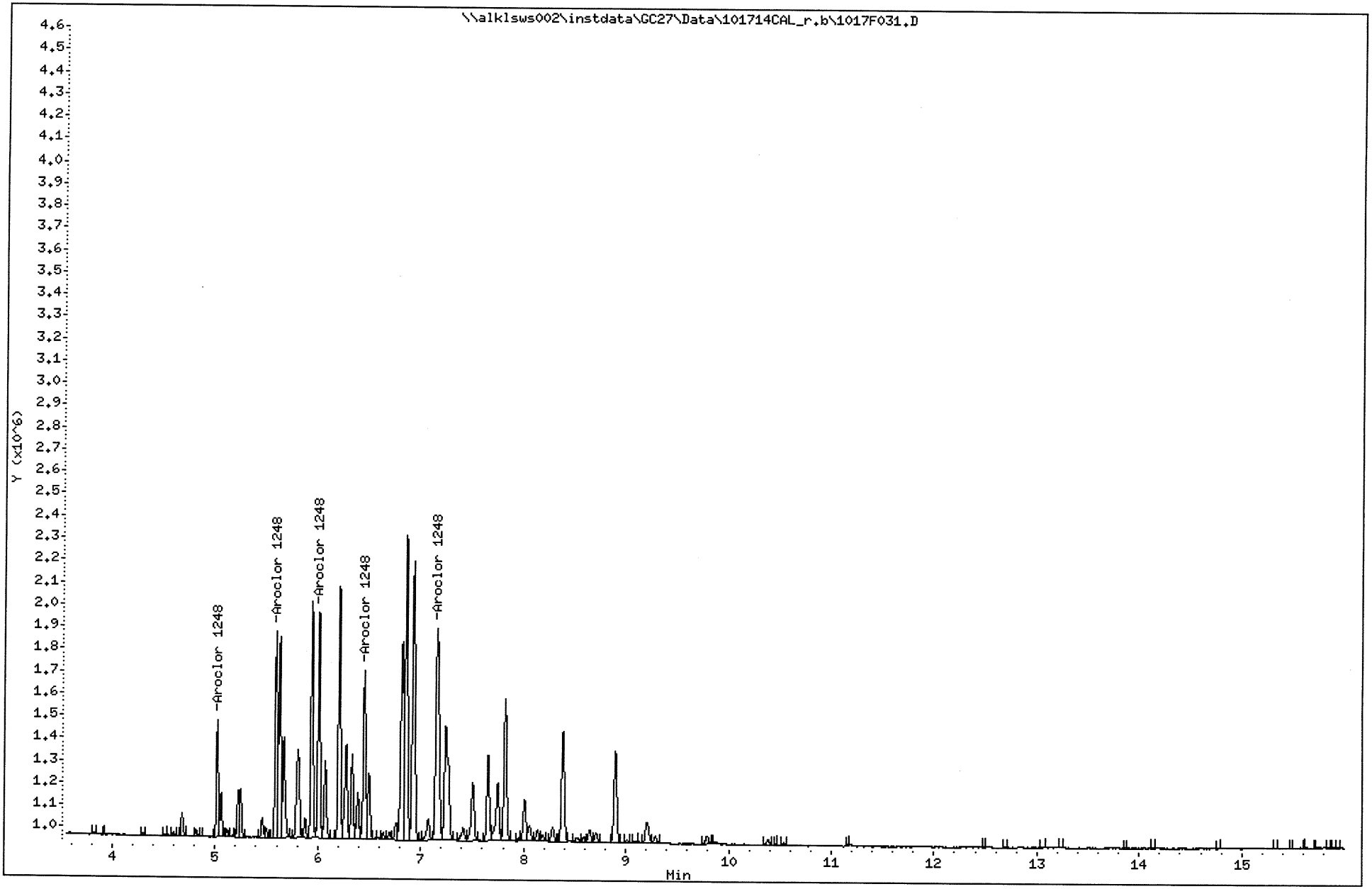
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

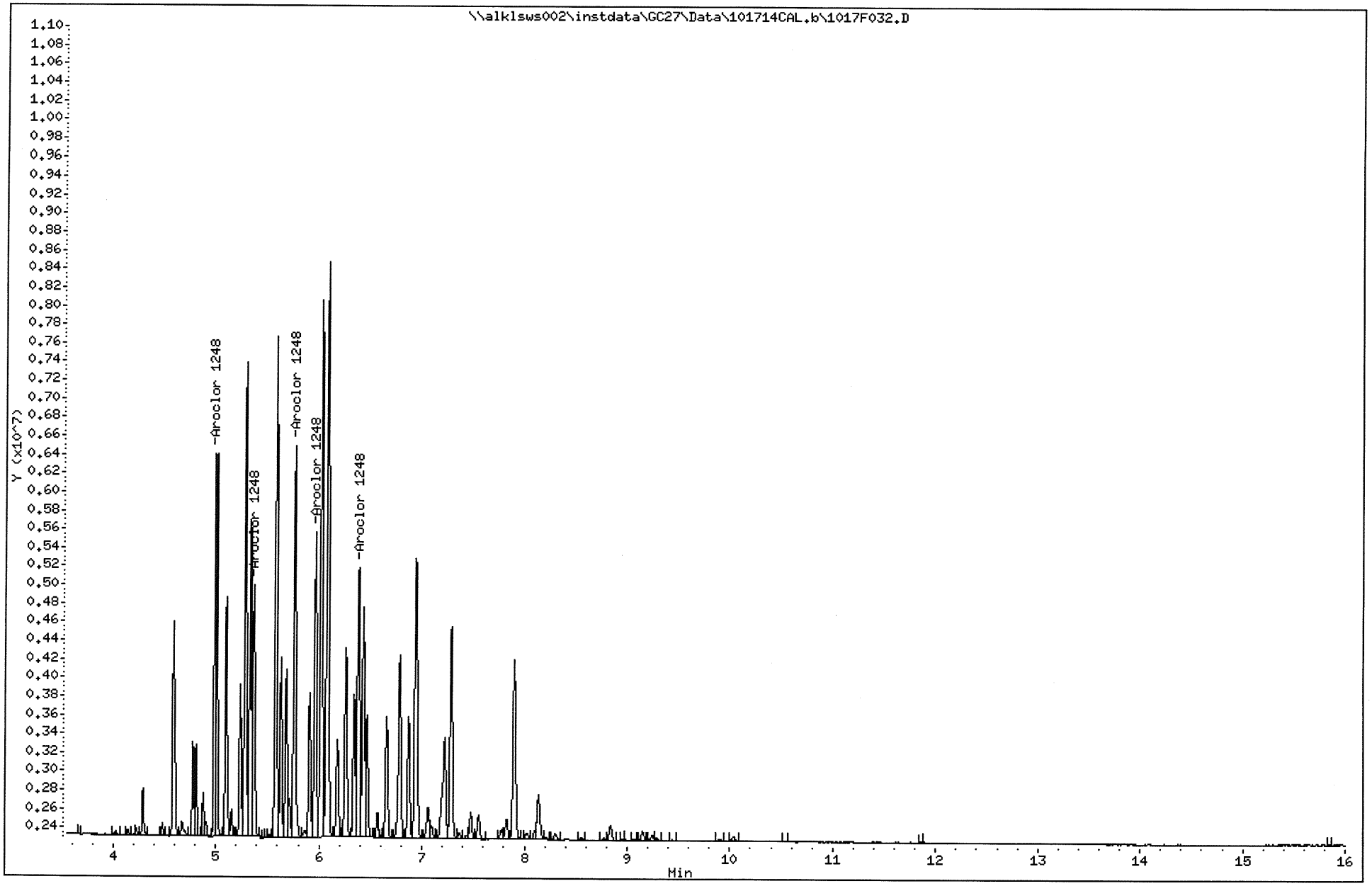
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



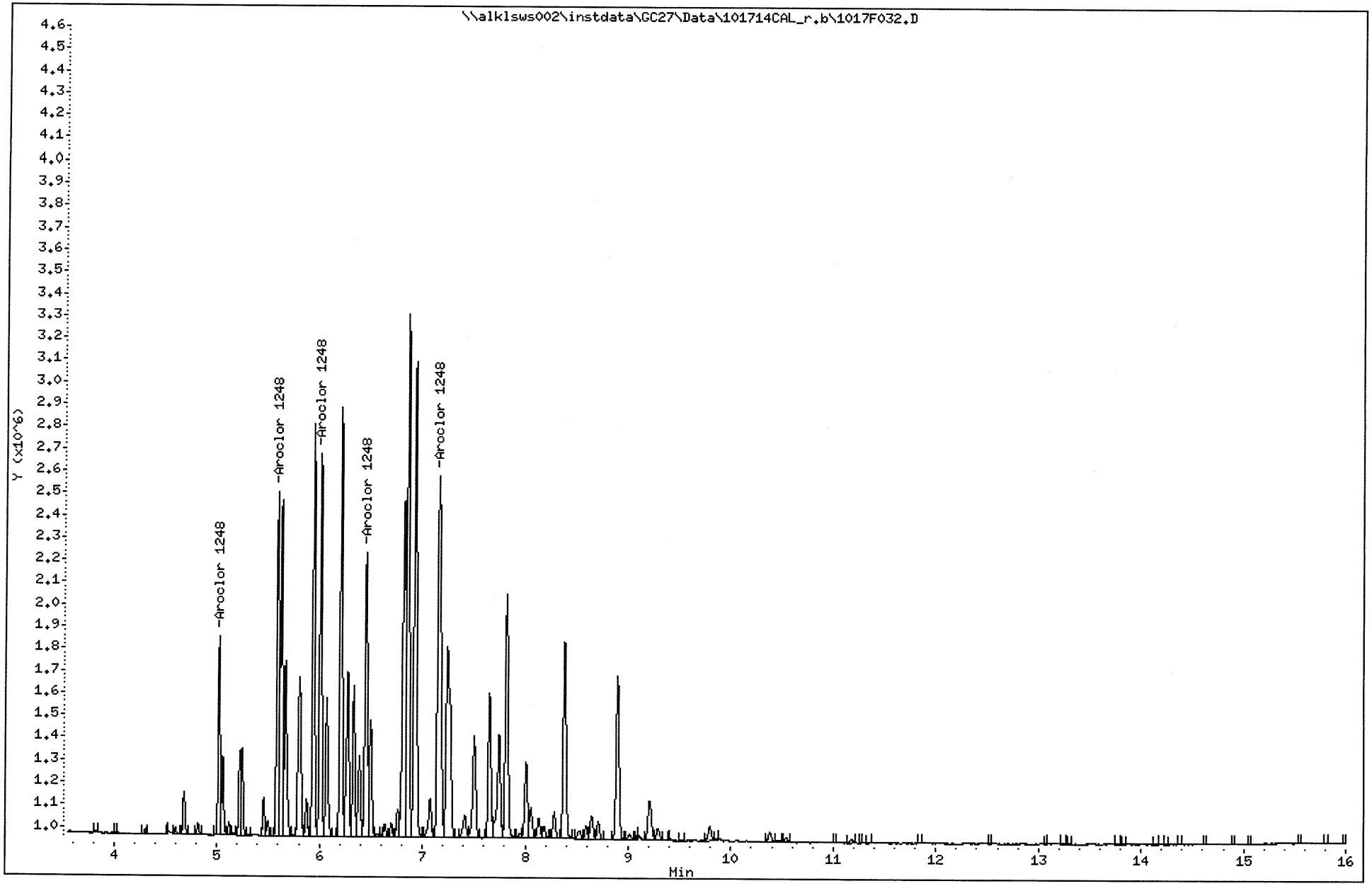
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

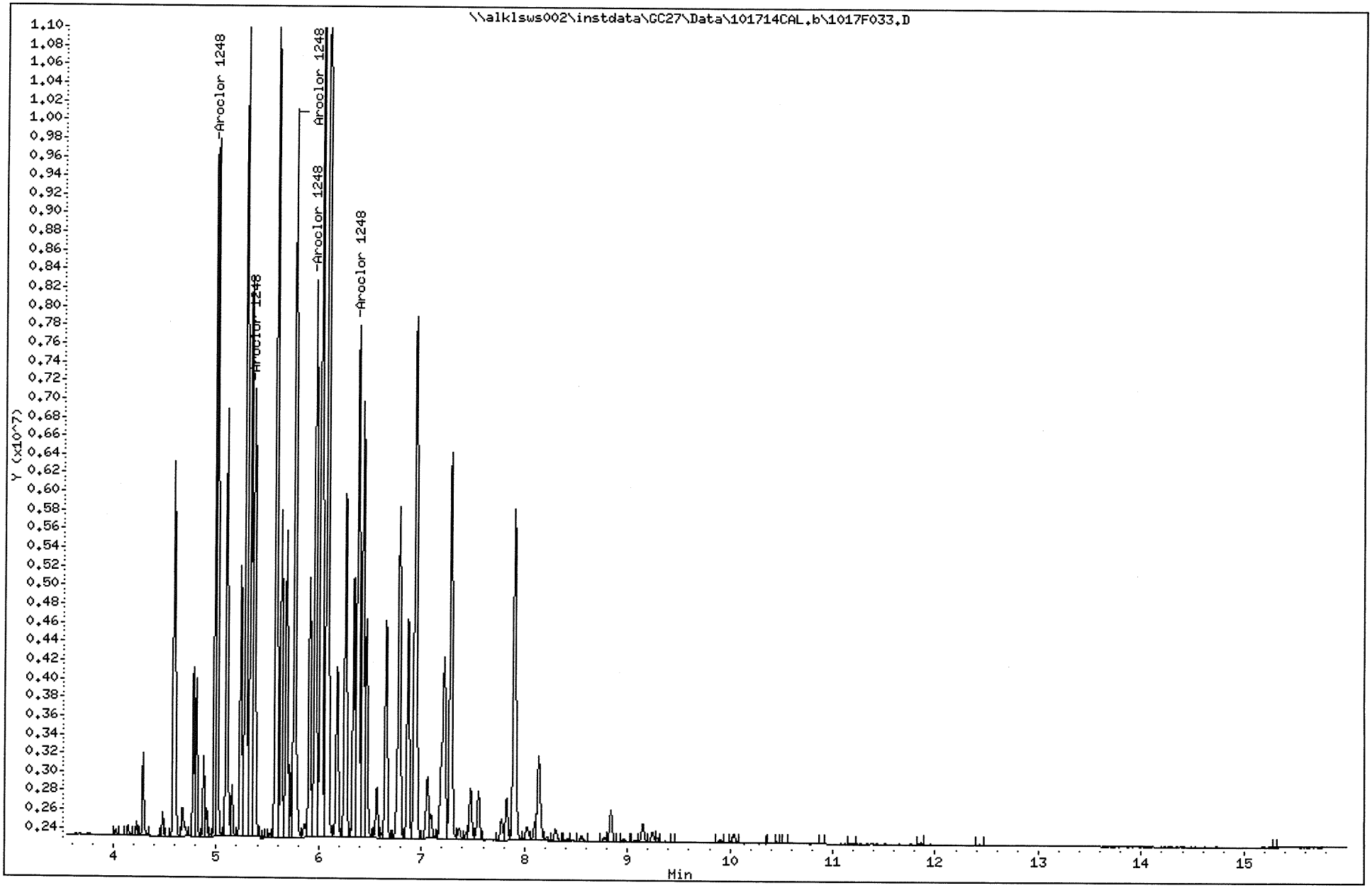
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

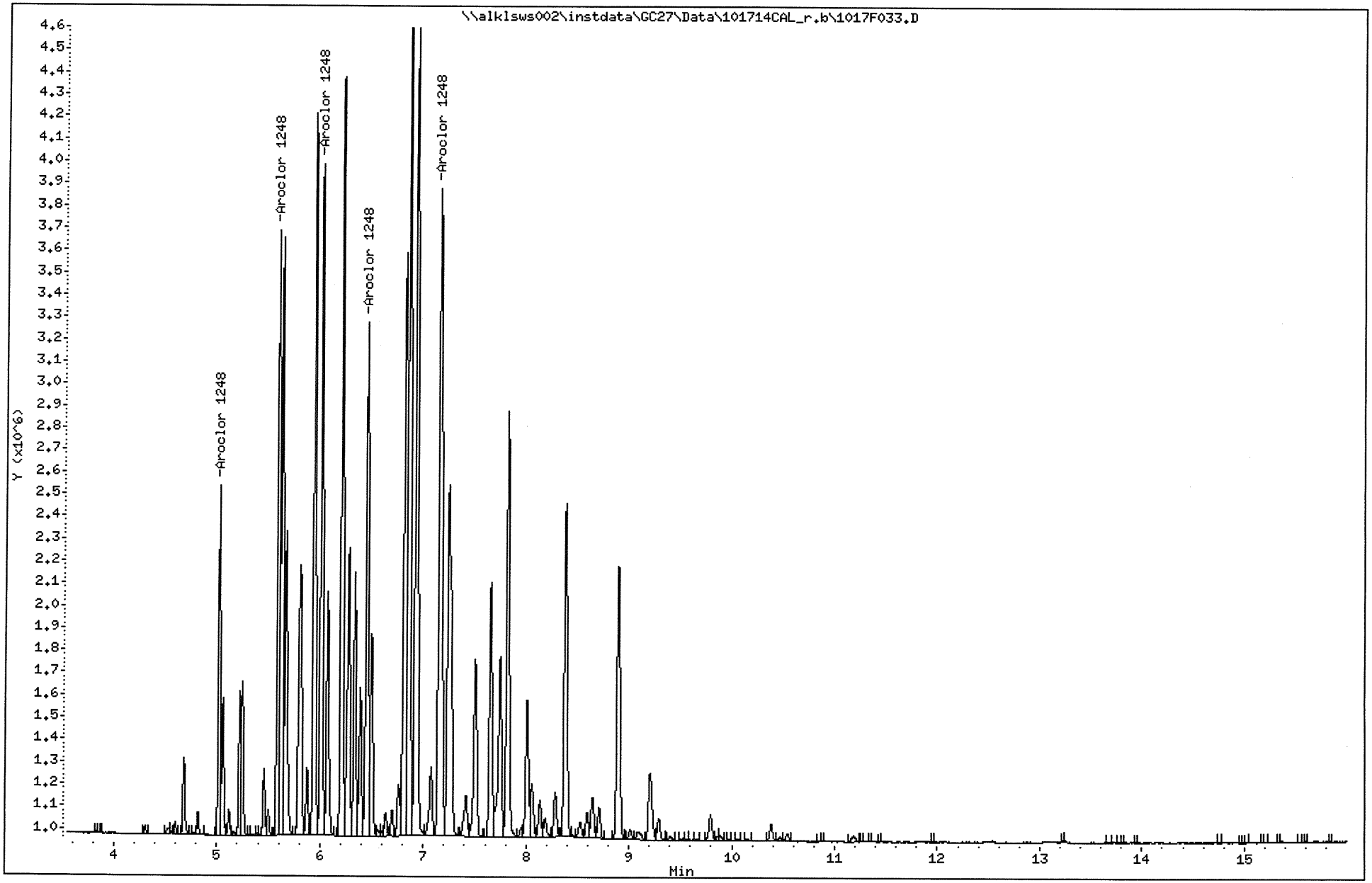


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

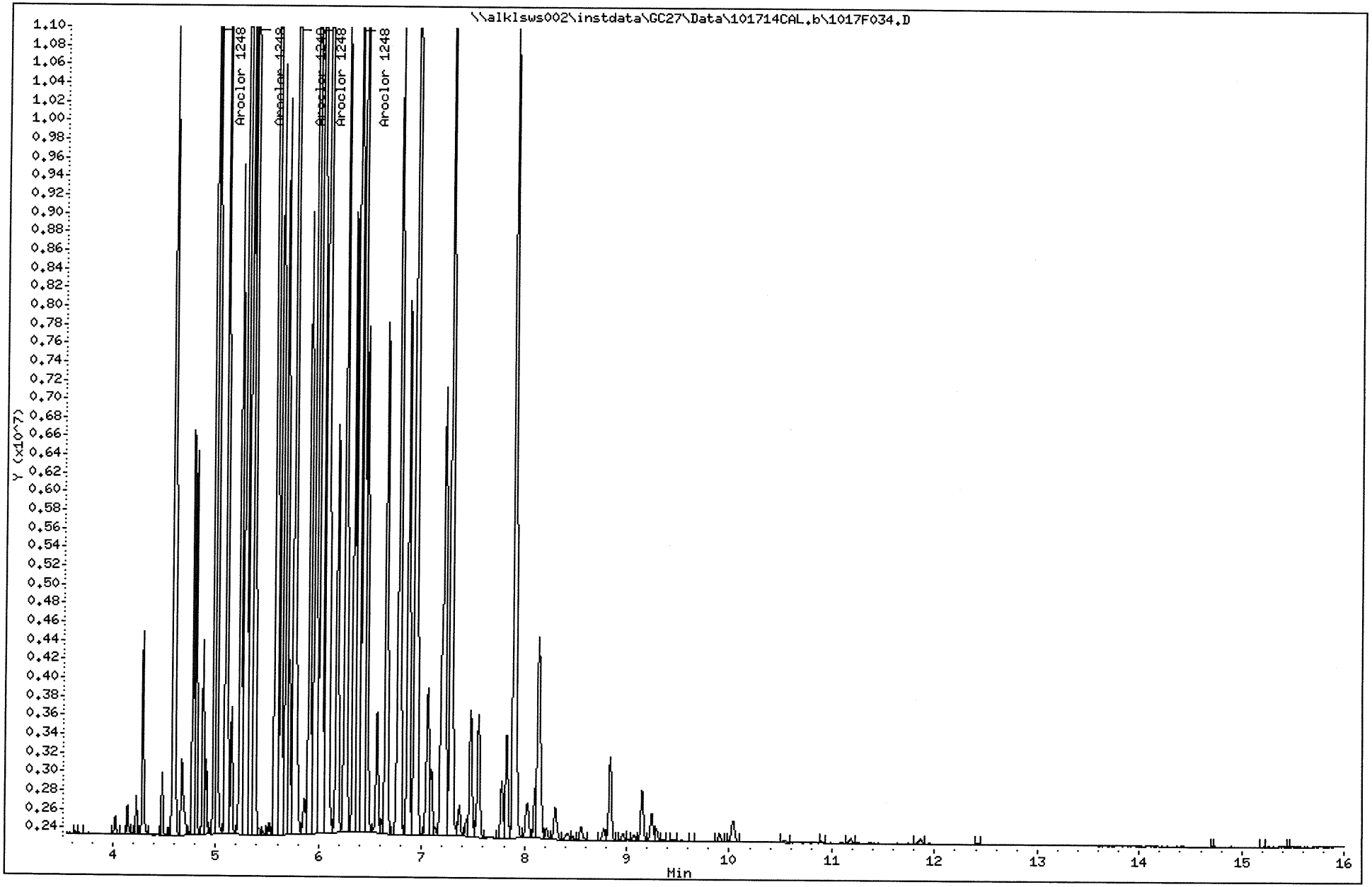
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

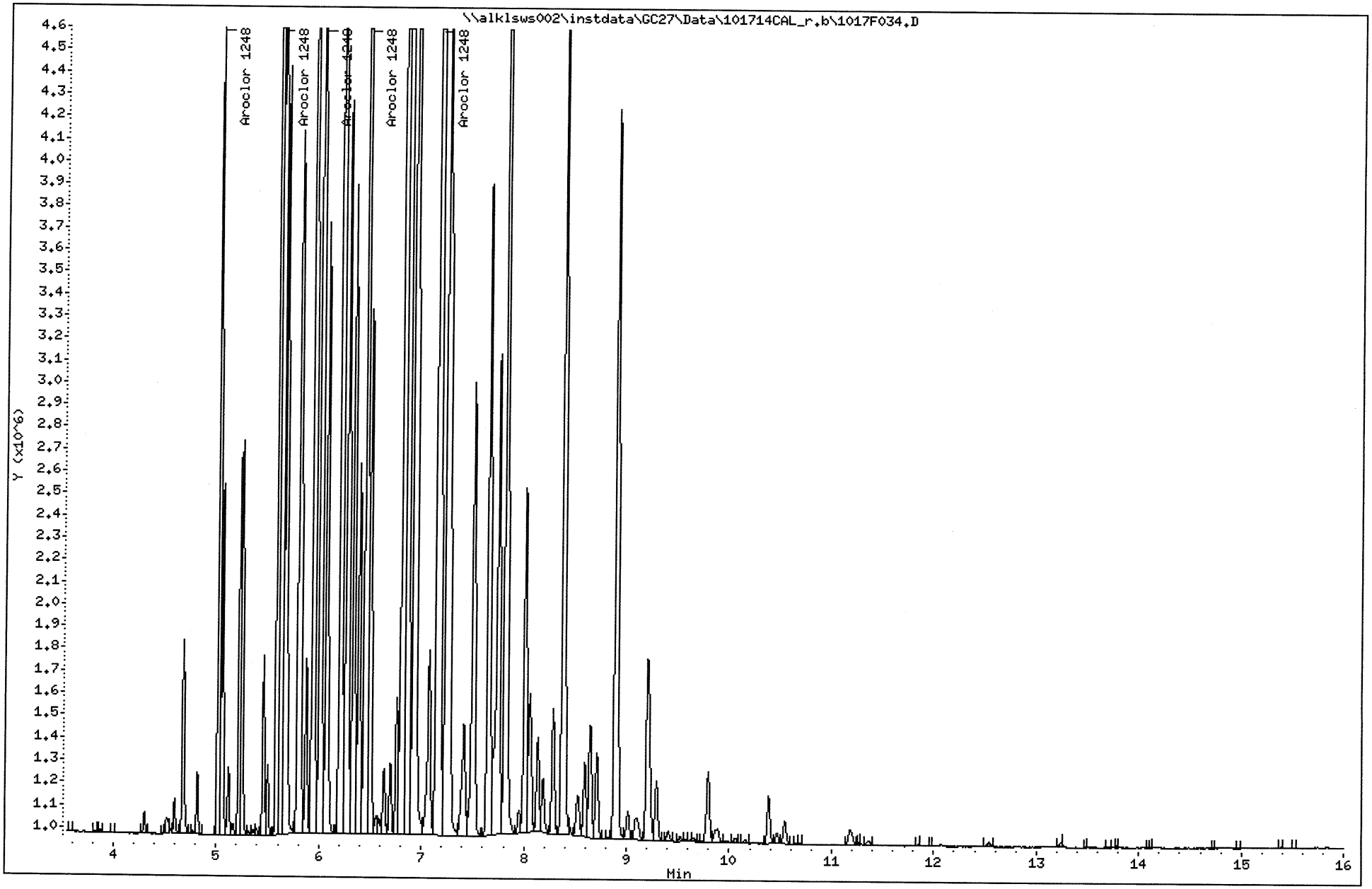


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

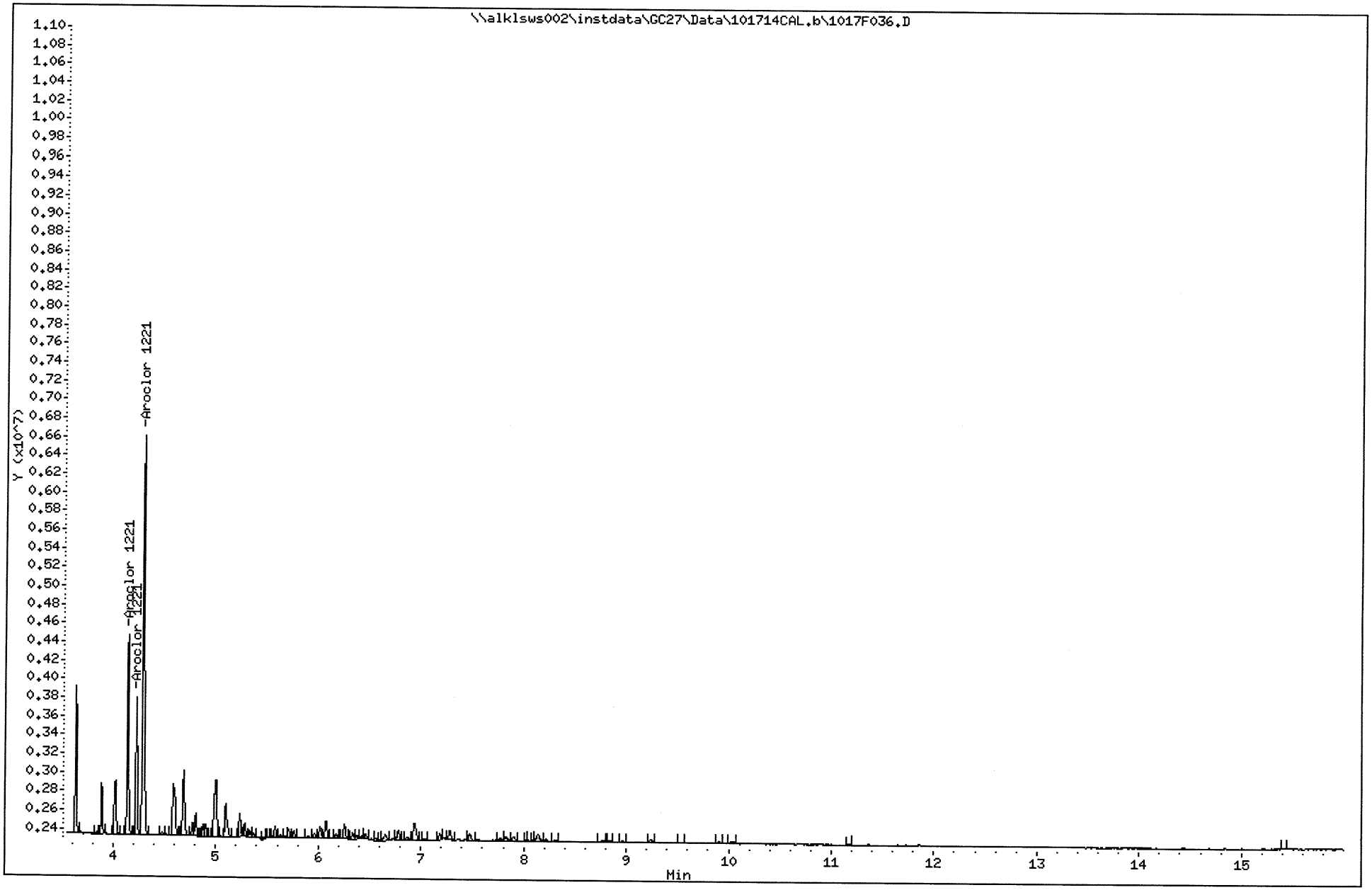
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



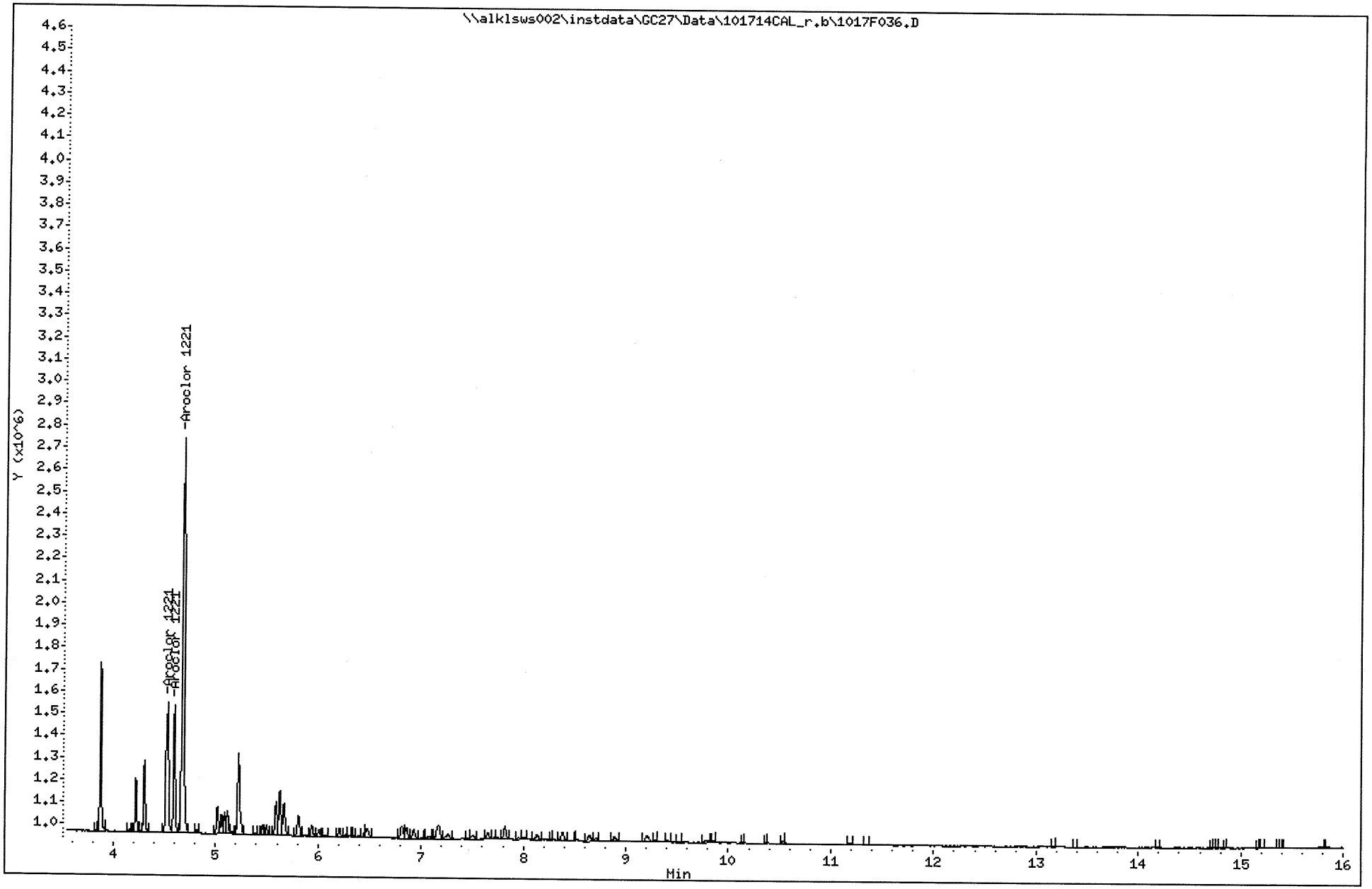
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

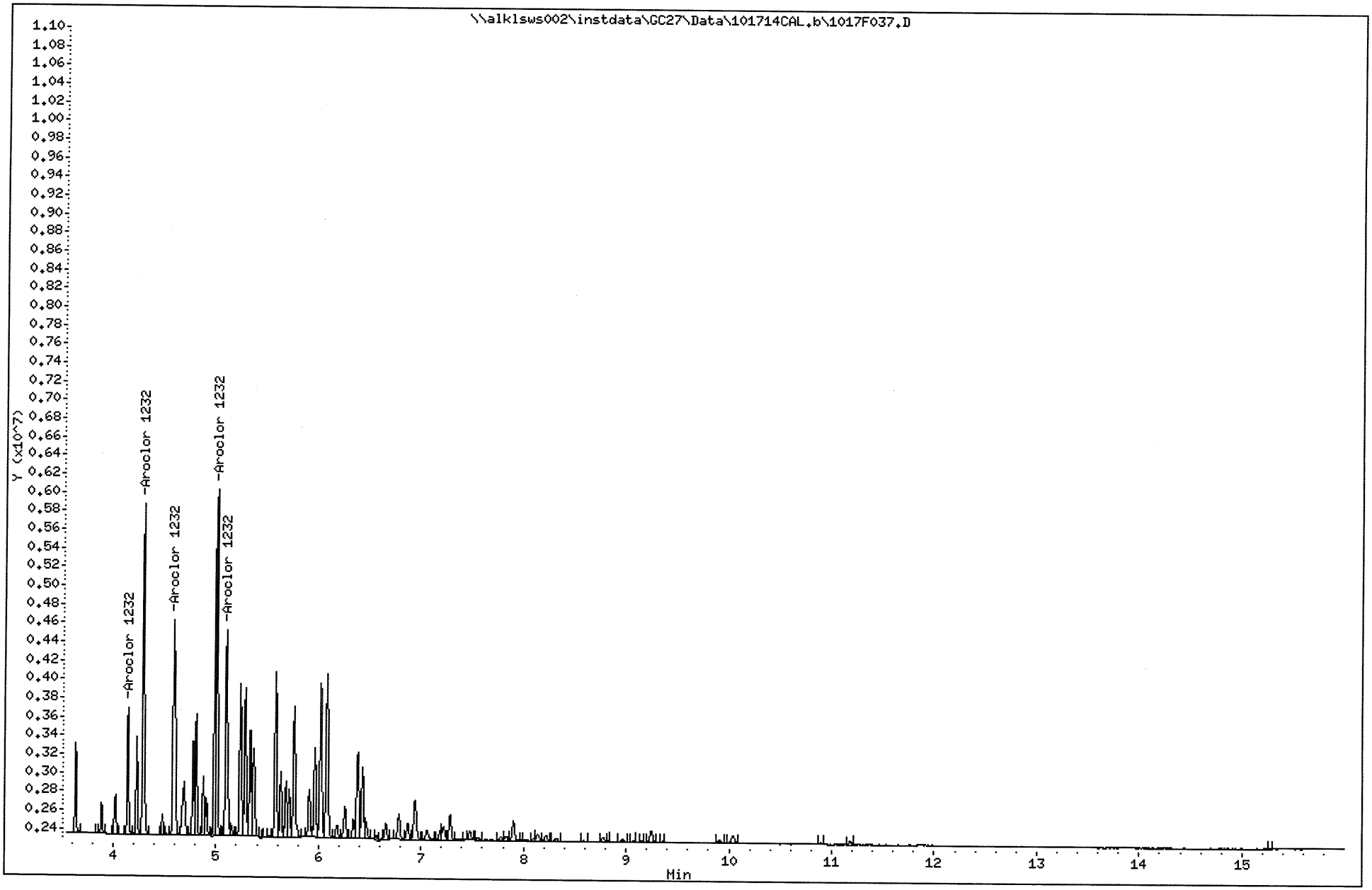
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



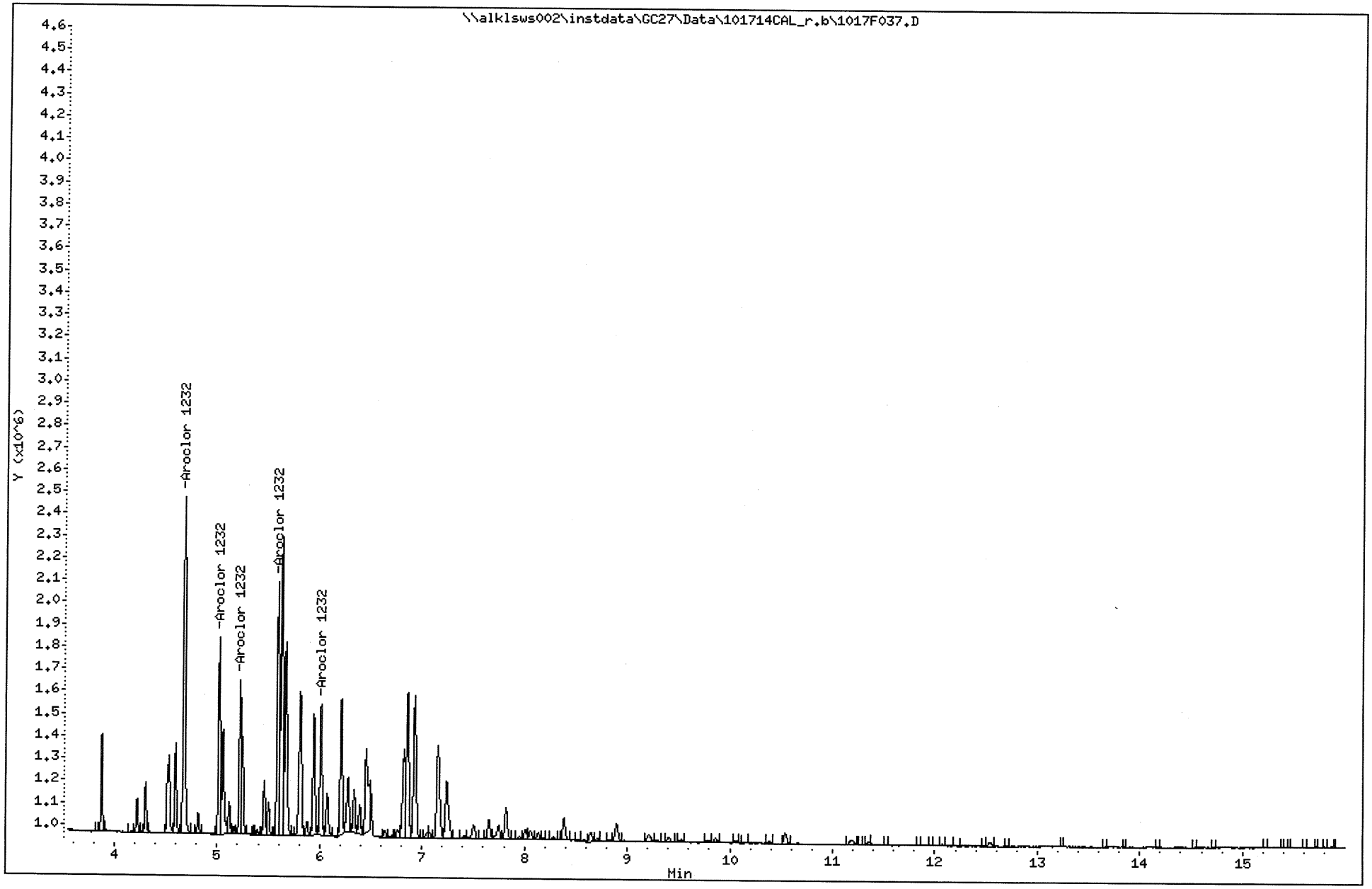
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

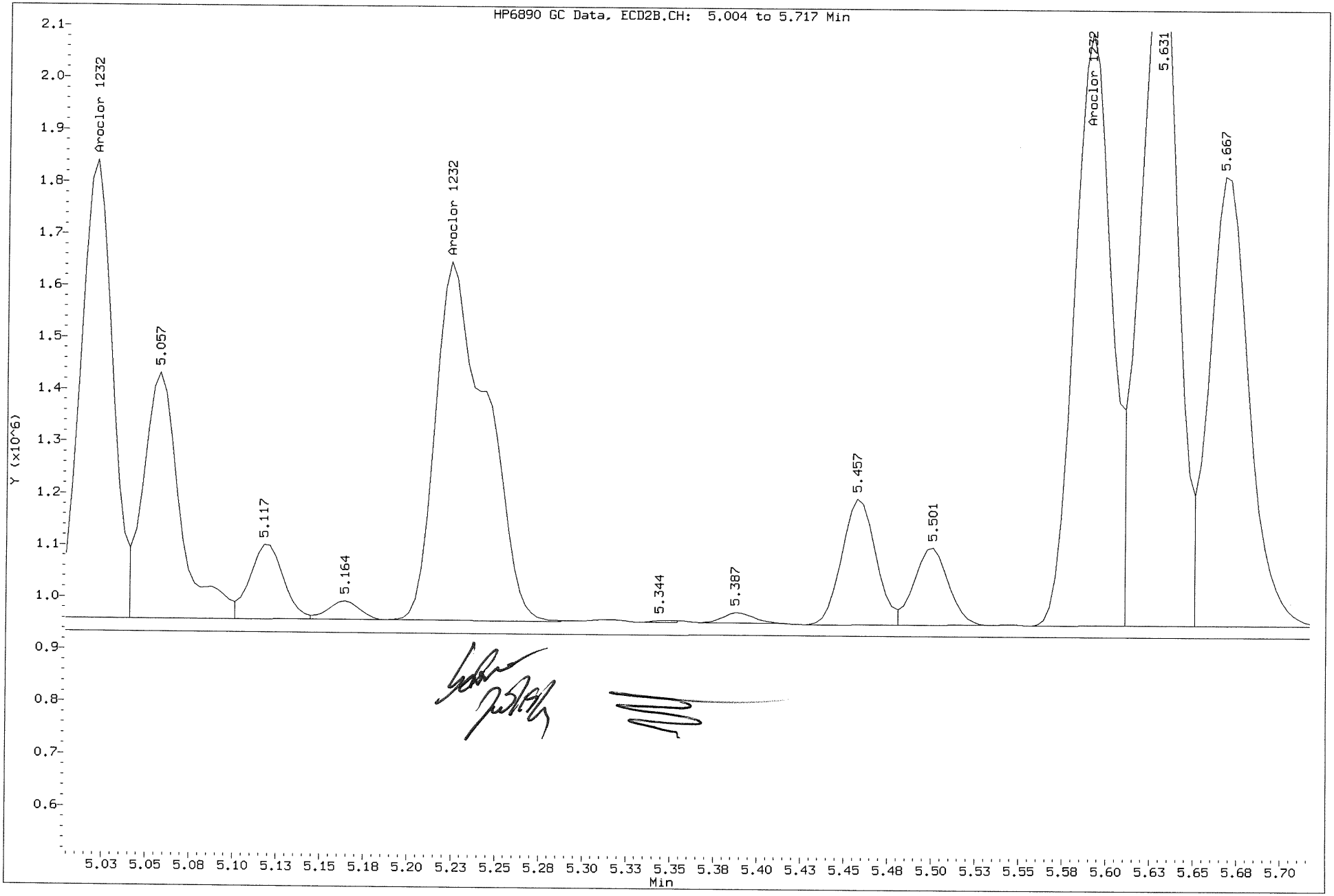
Operator: JMSmith

Column phase: DB-XLB

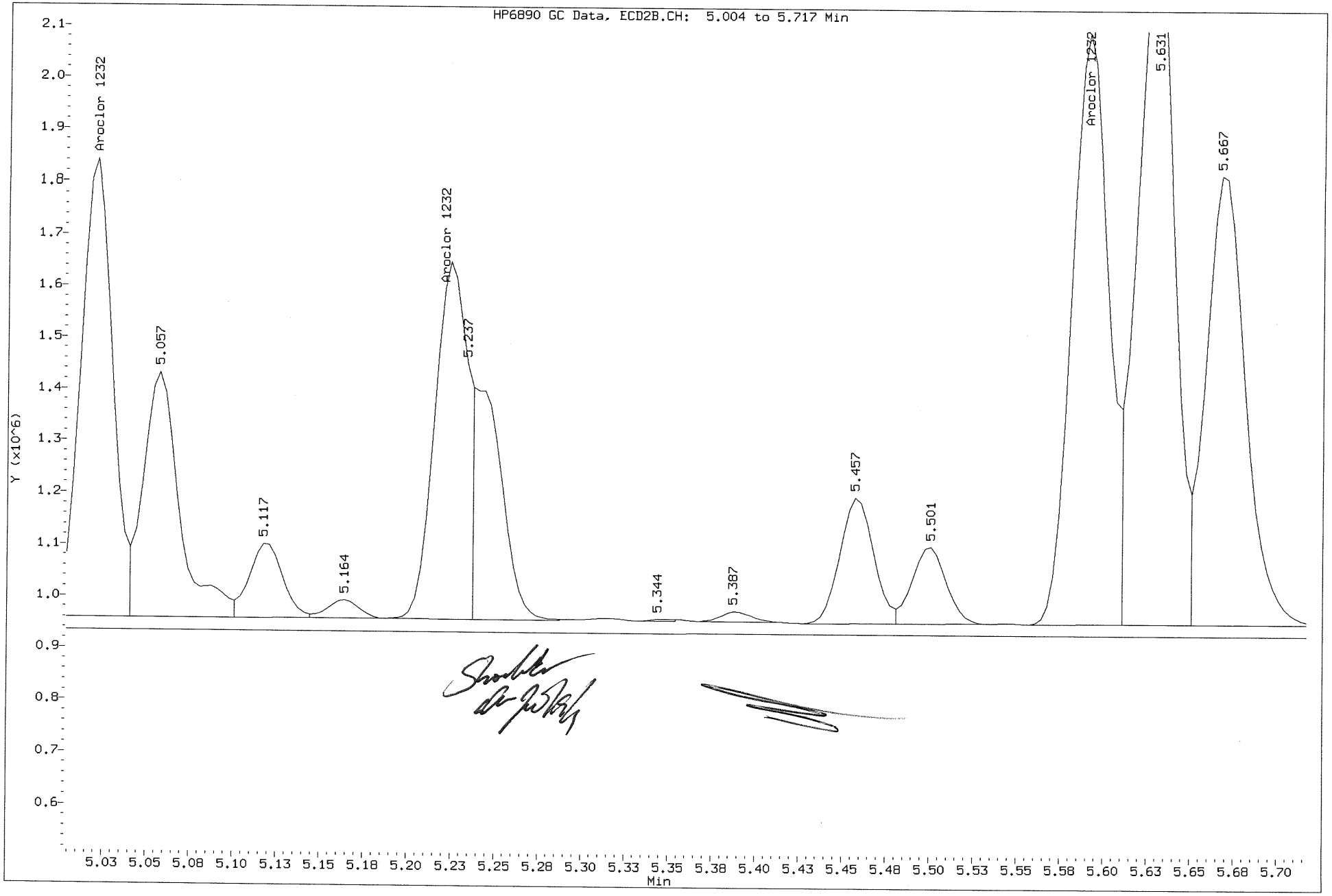
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

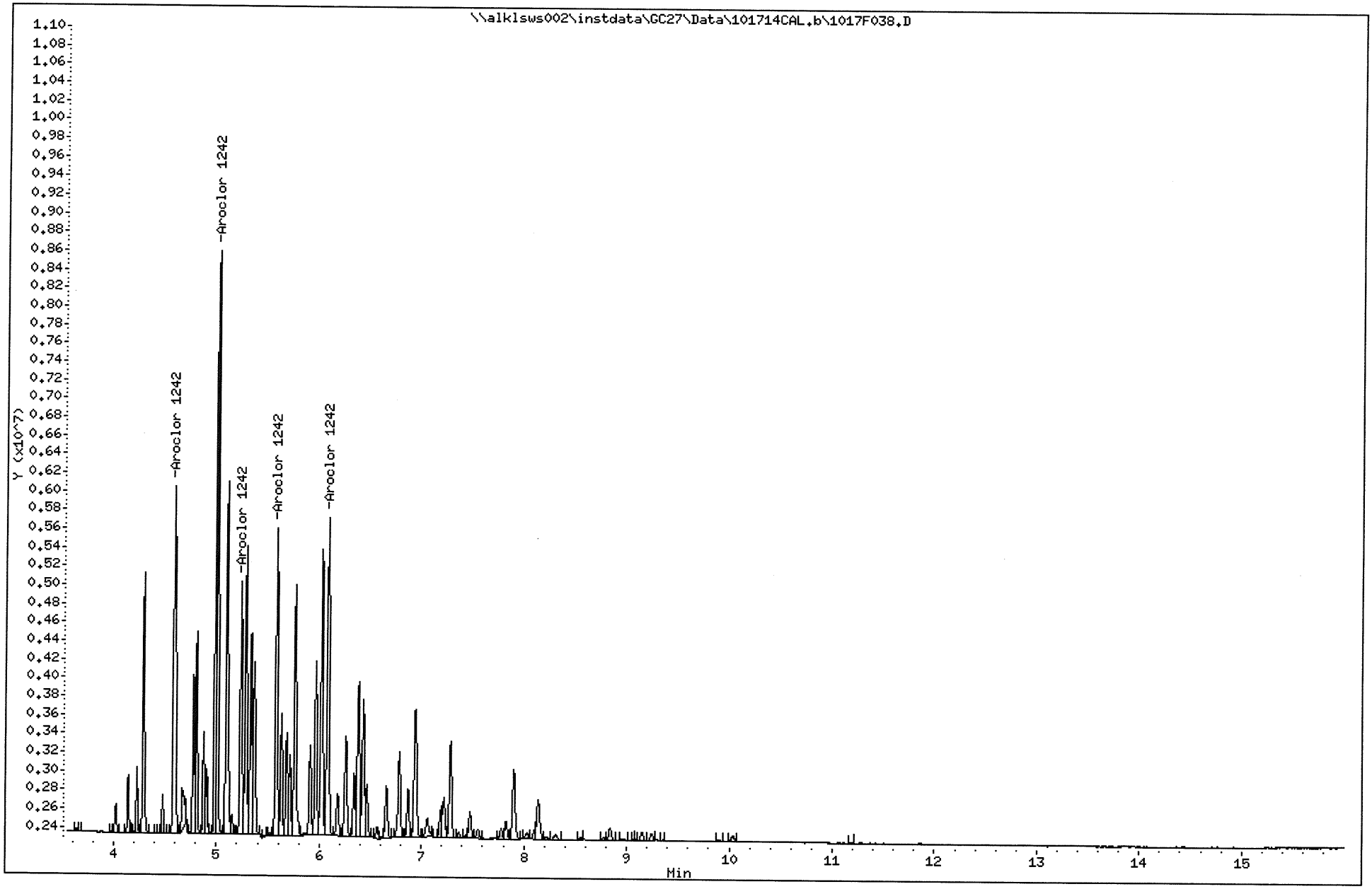
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

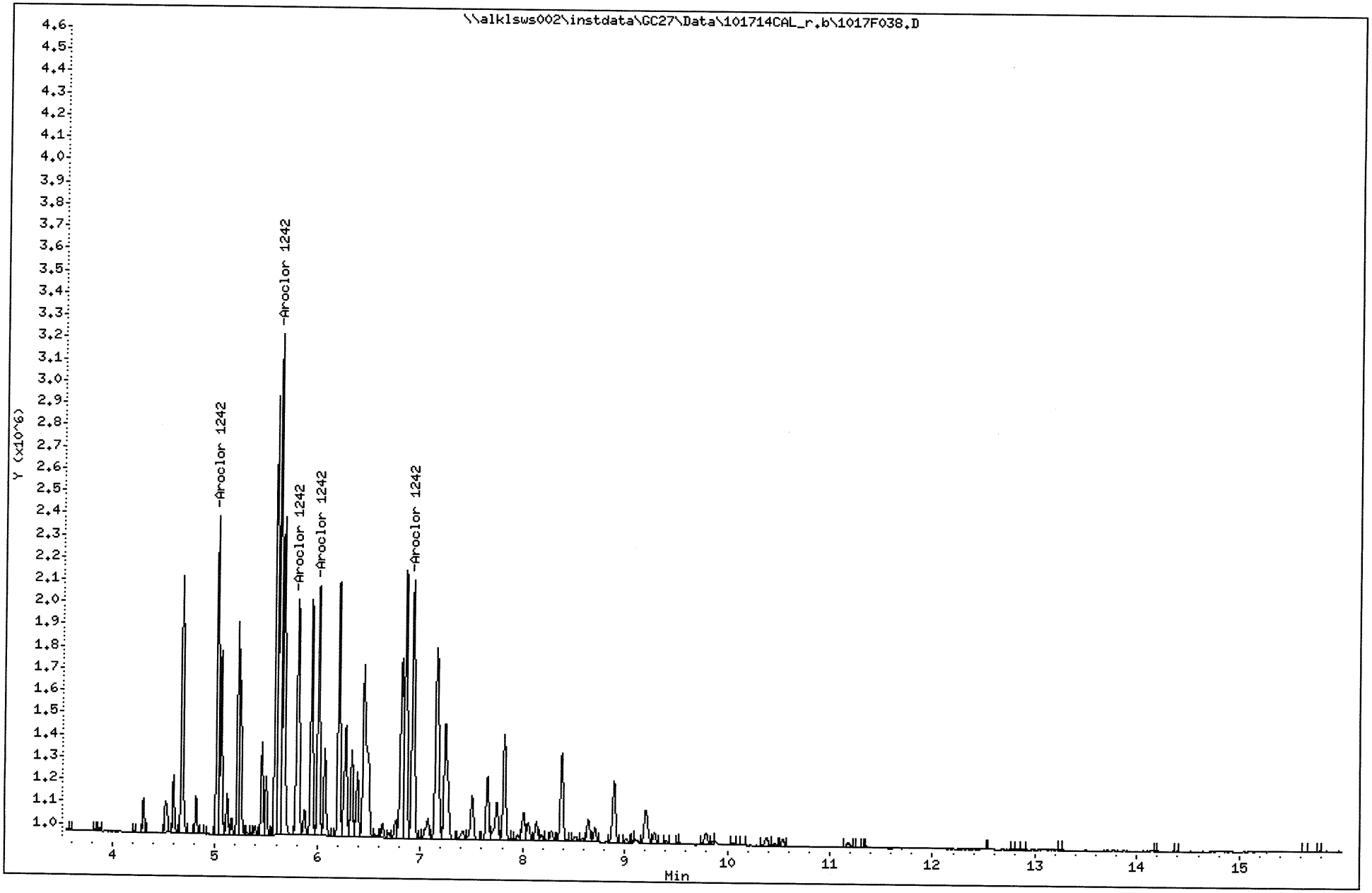


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

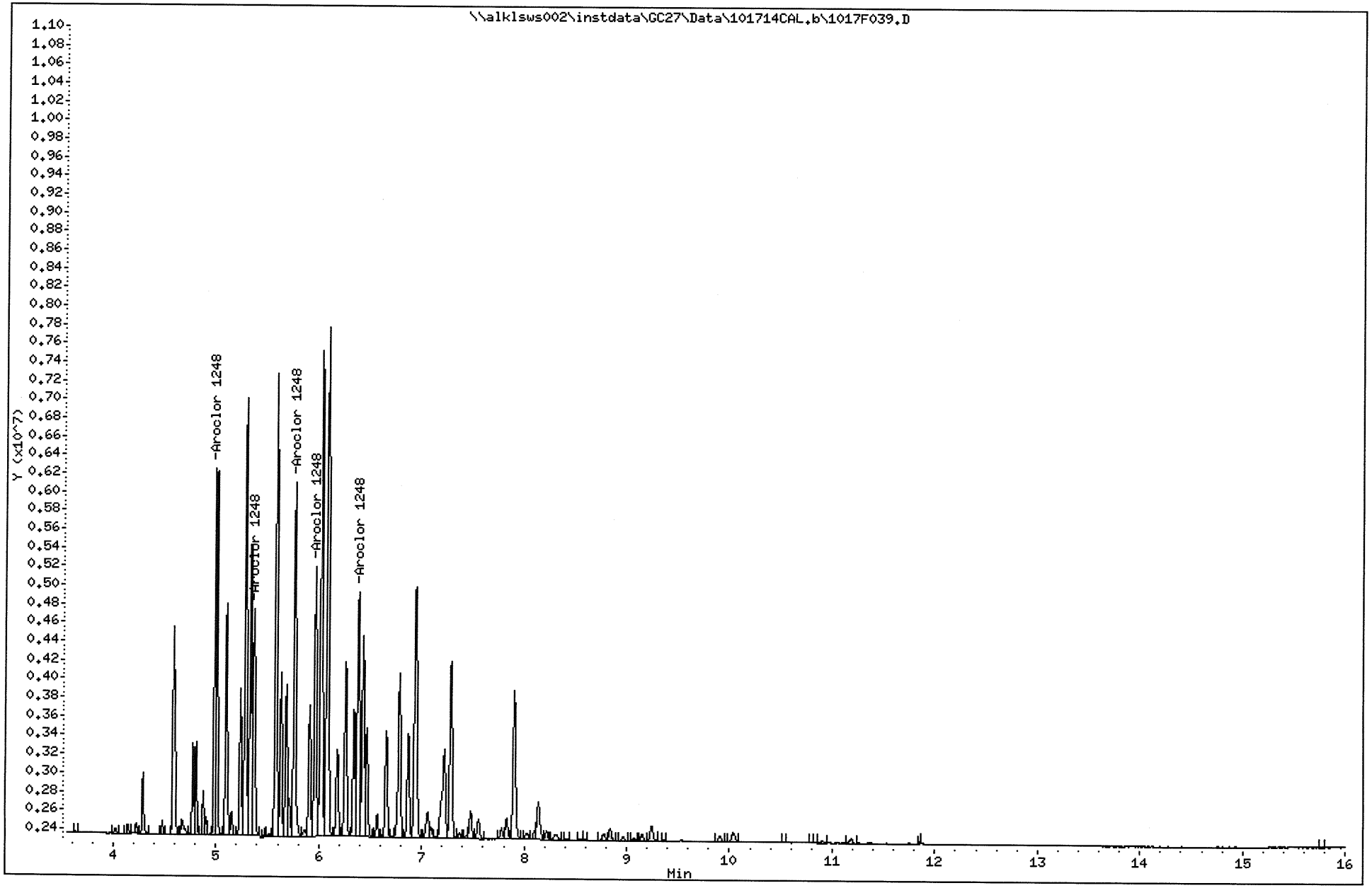
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



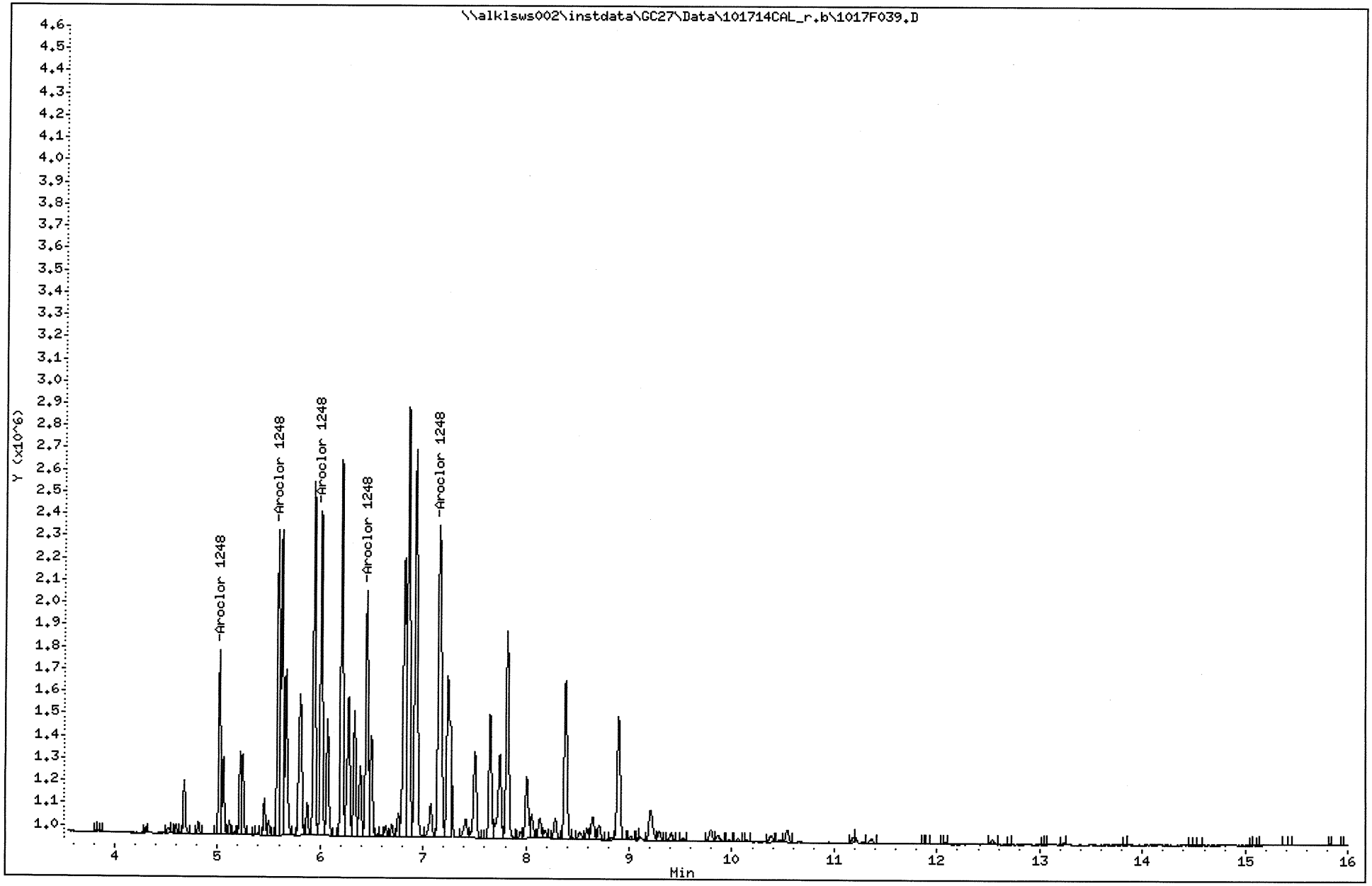
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

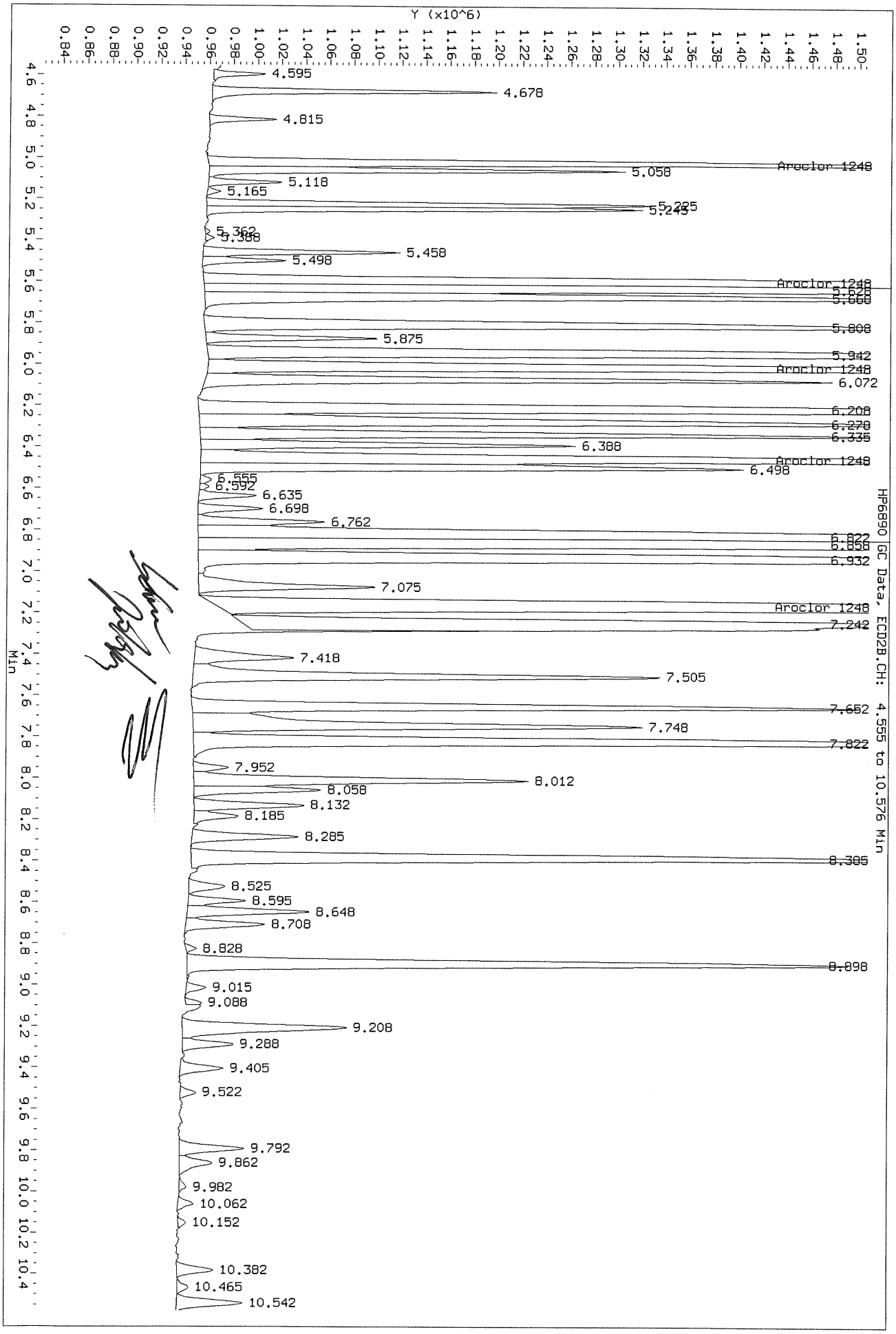
Operator: JMSmith

Column phase: DB-XLB

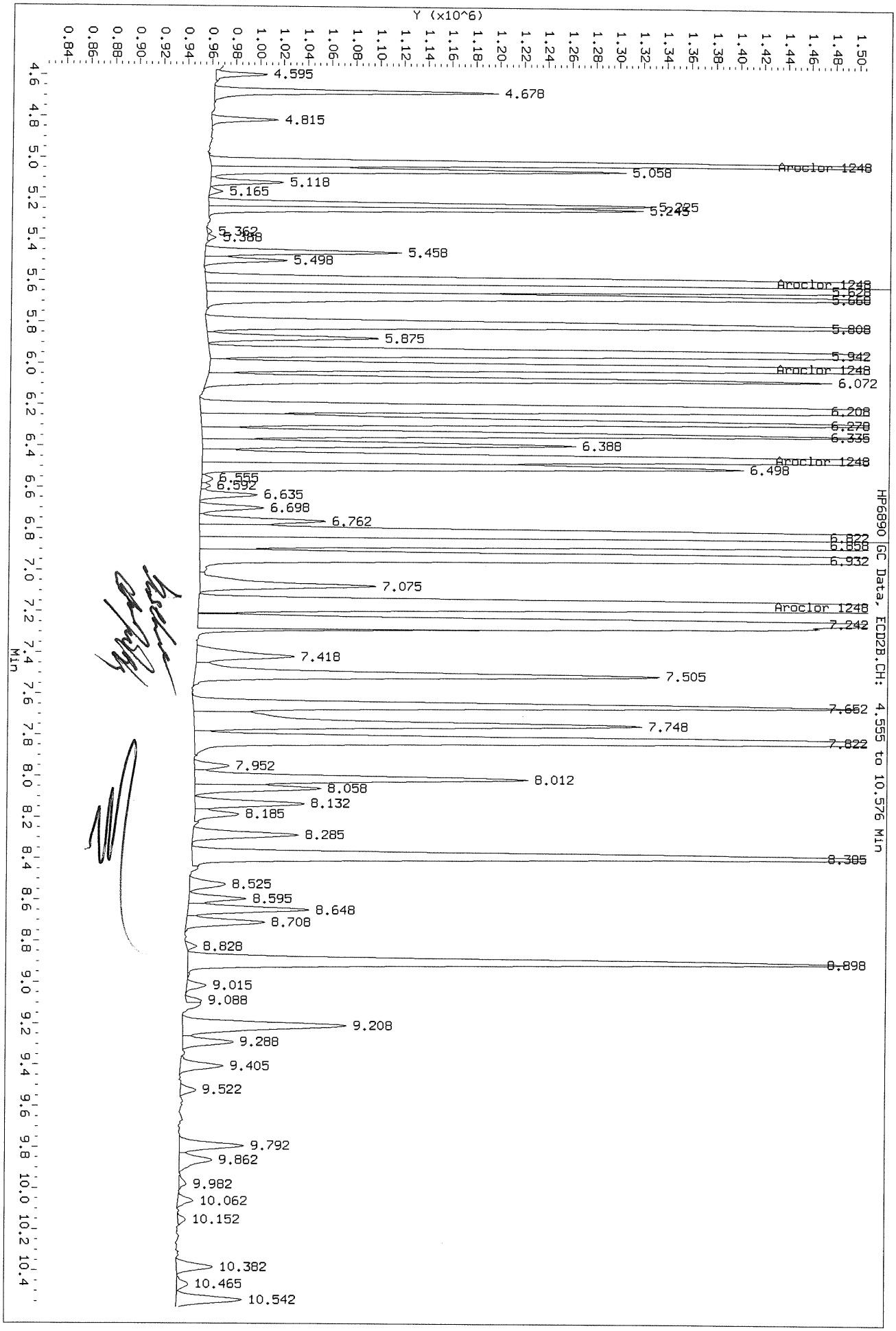
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

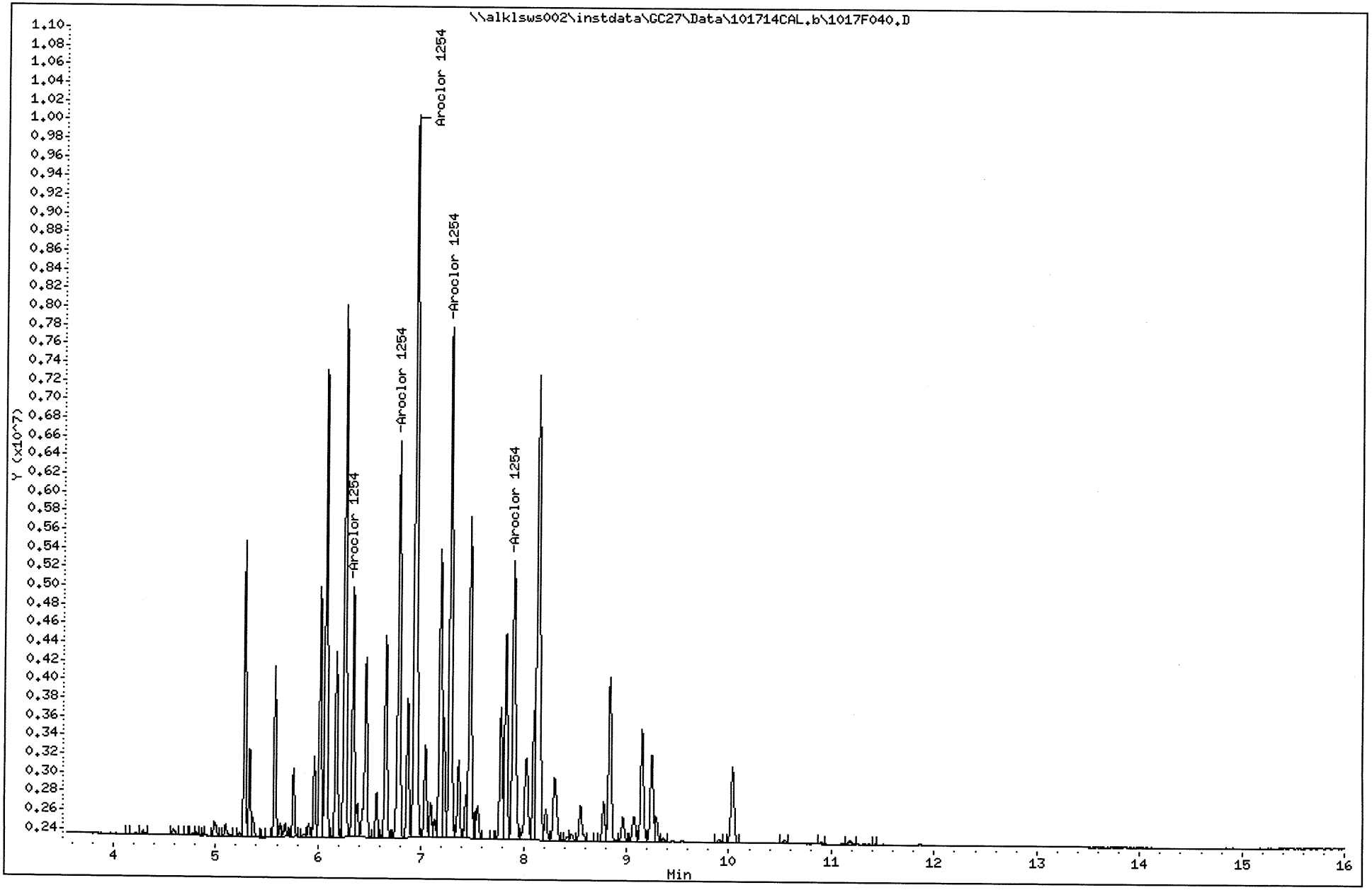
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



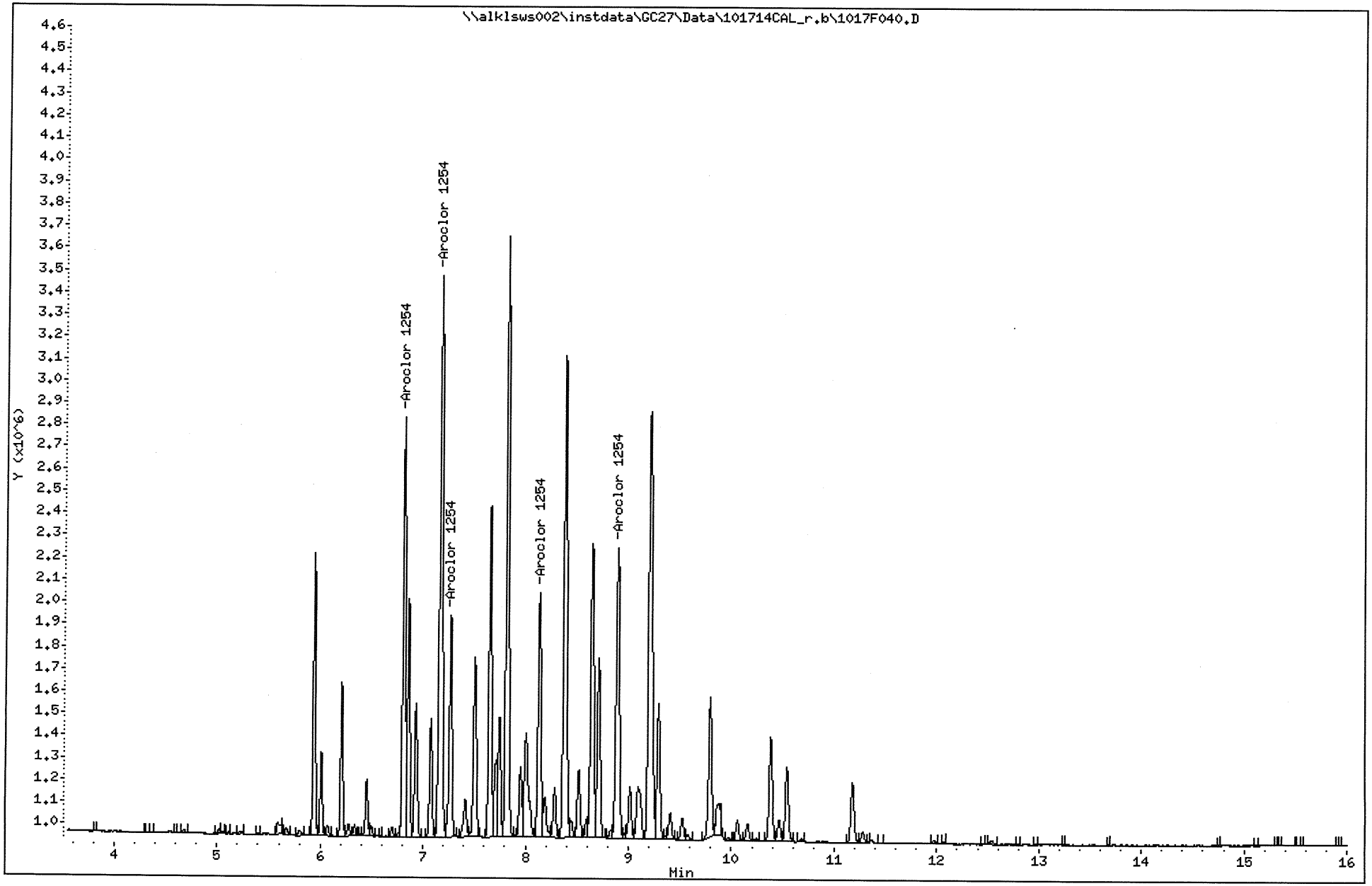
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

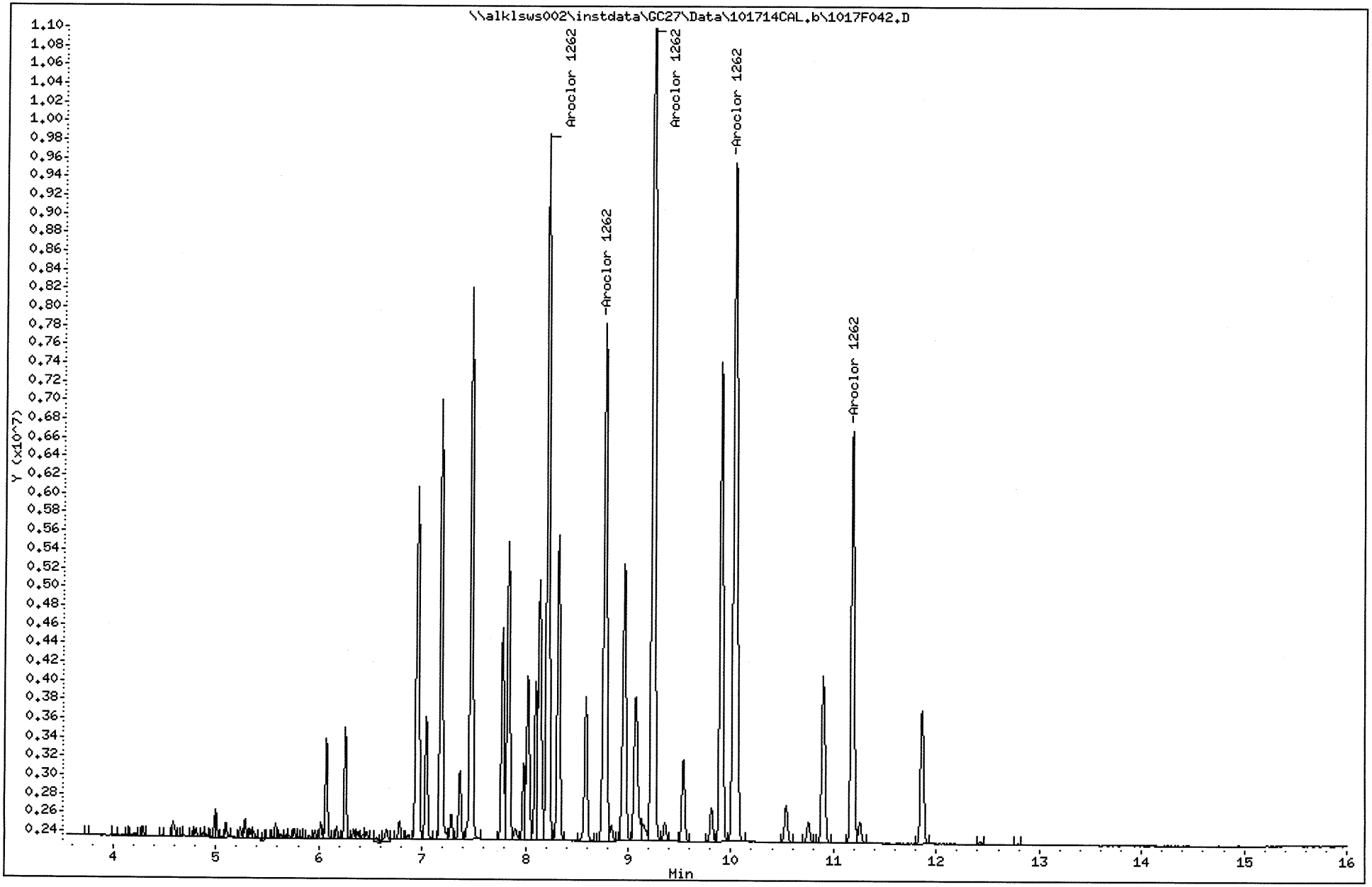
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



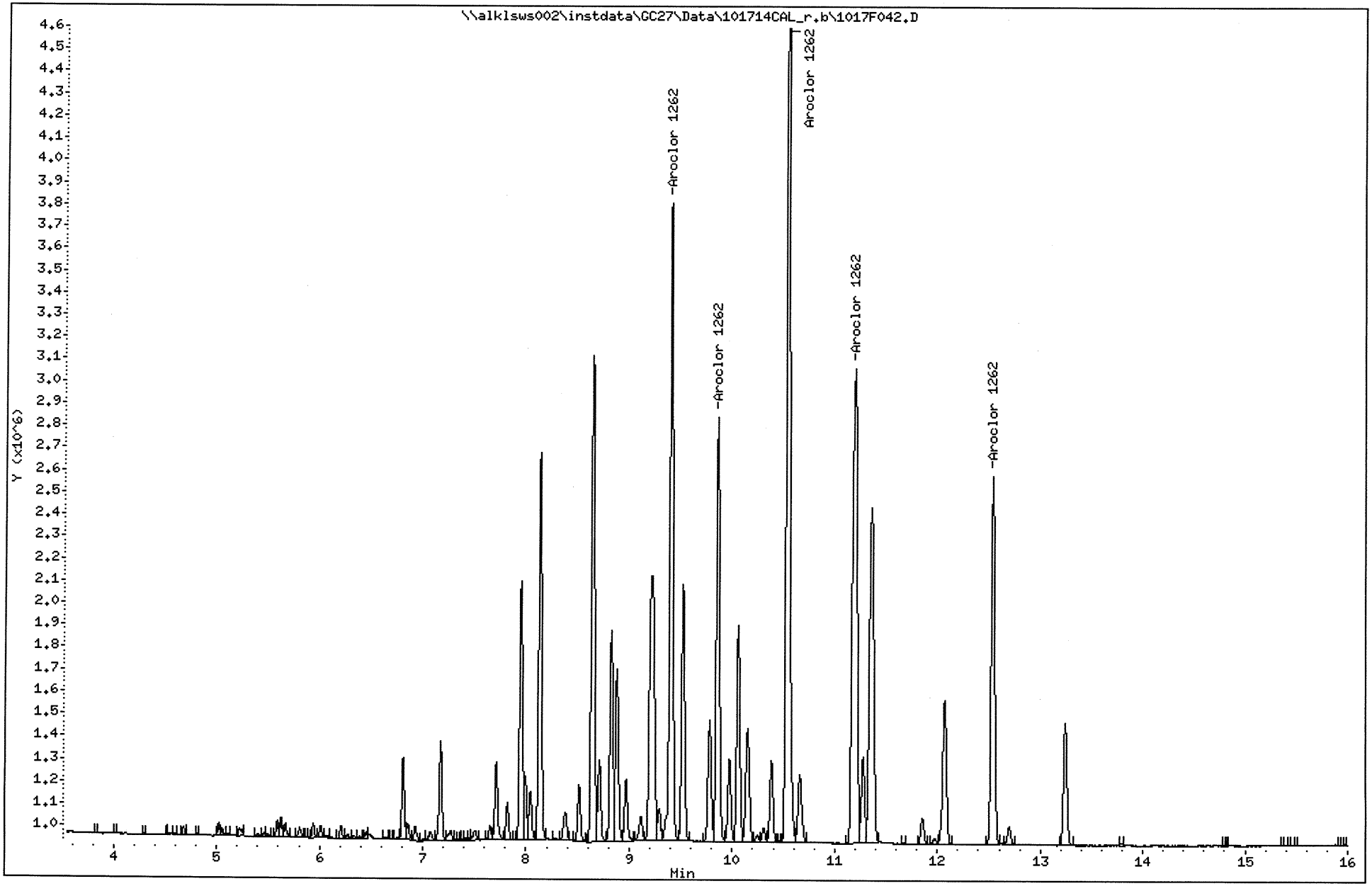
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

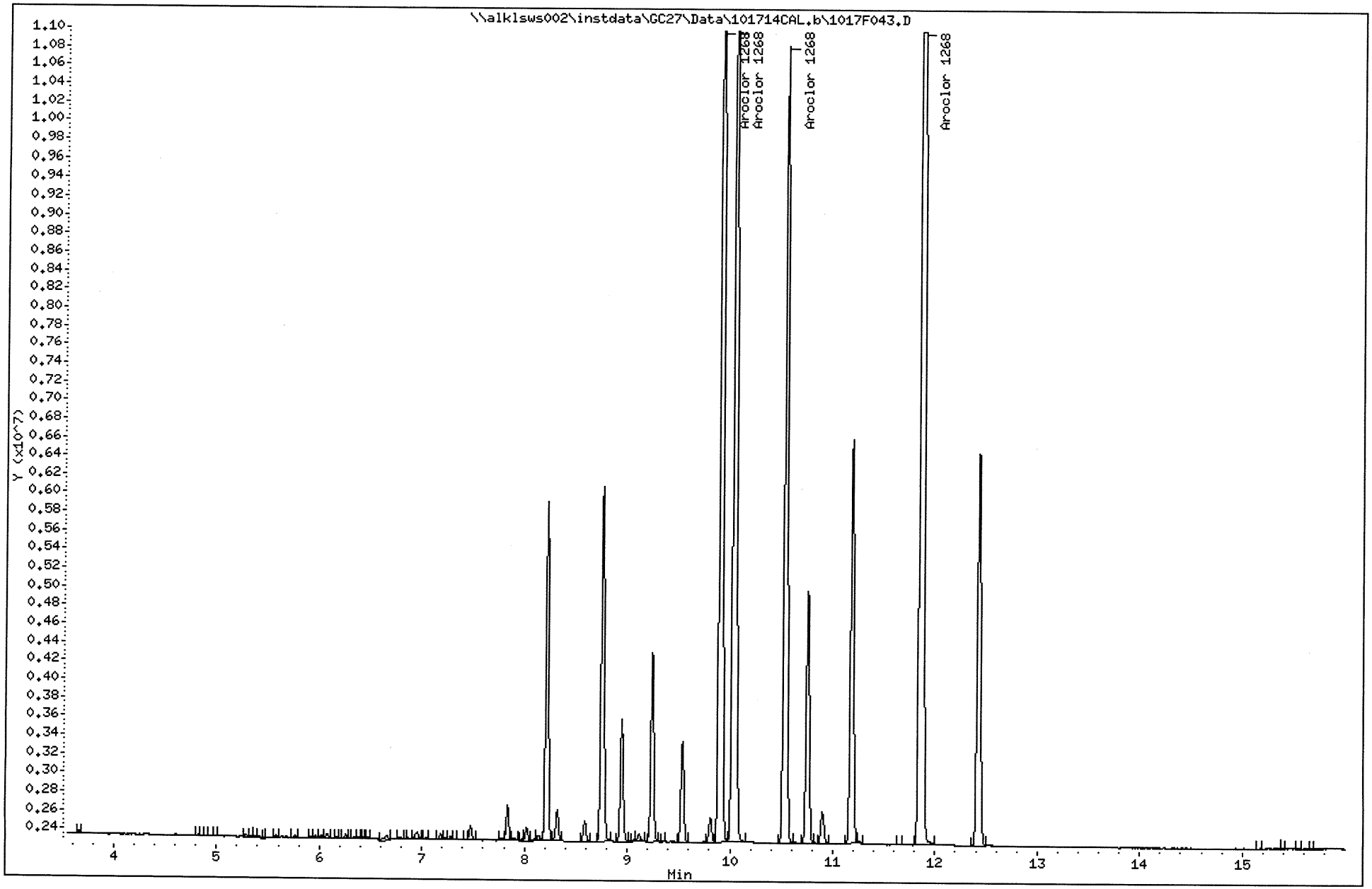
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

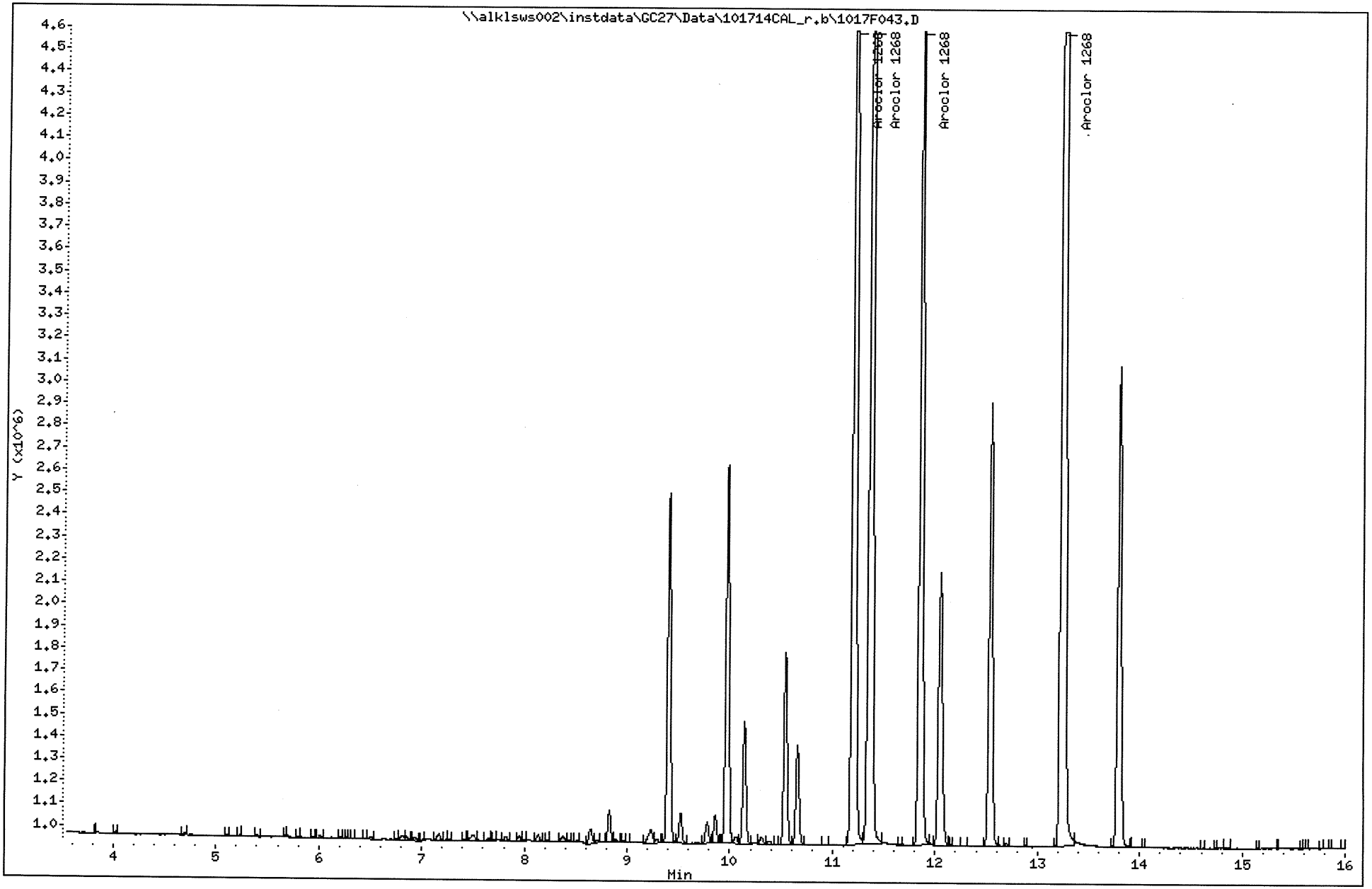


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

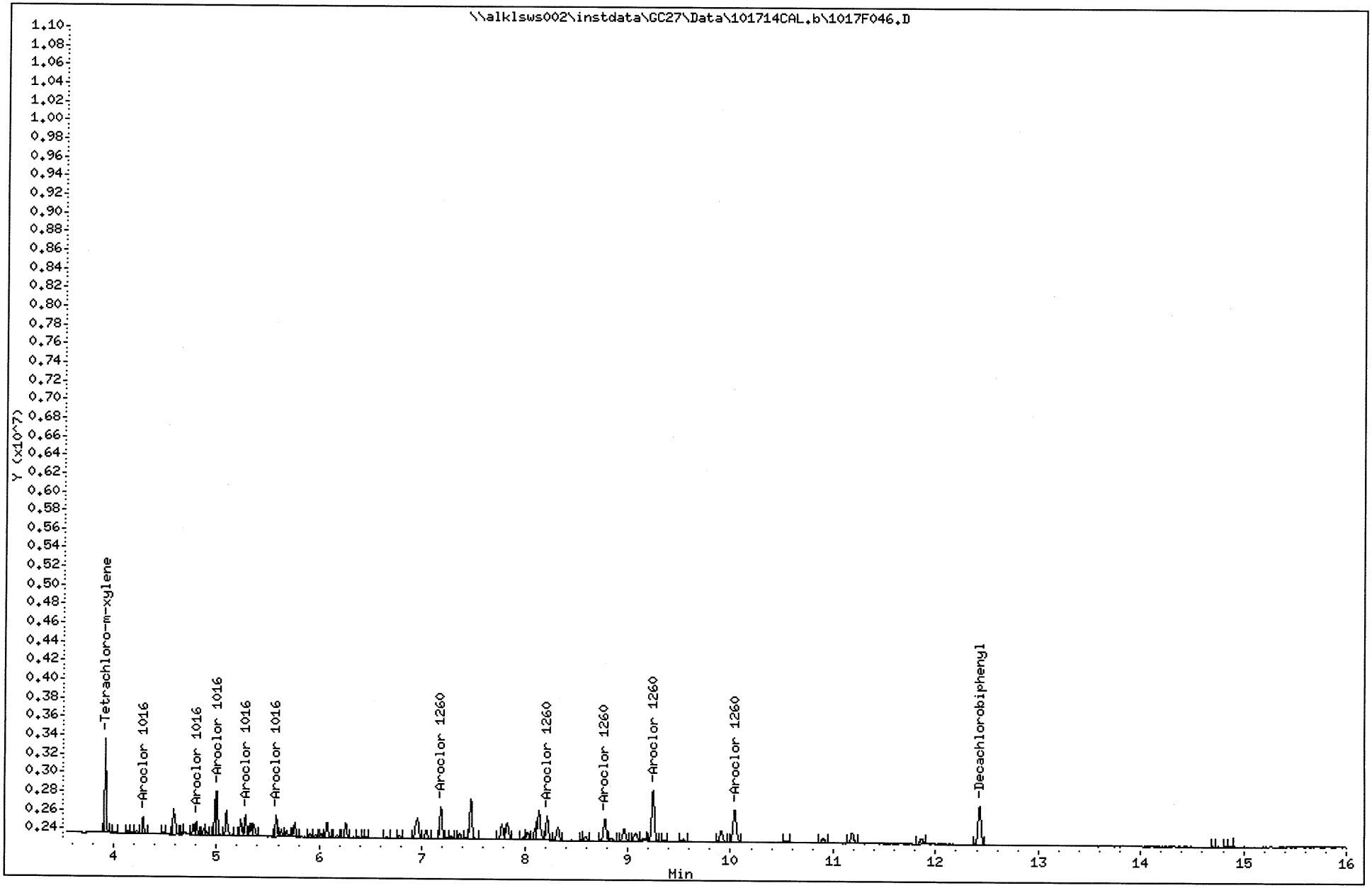
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

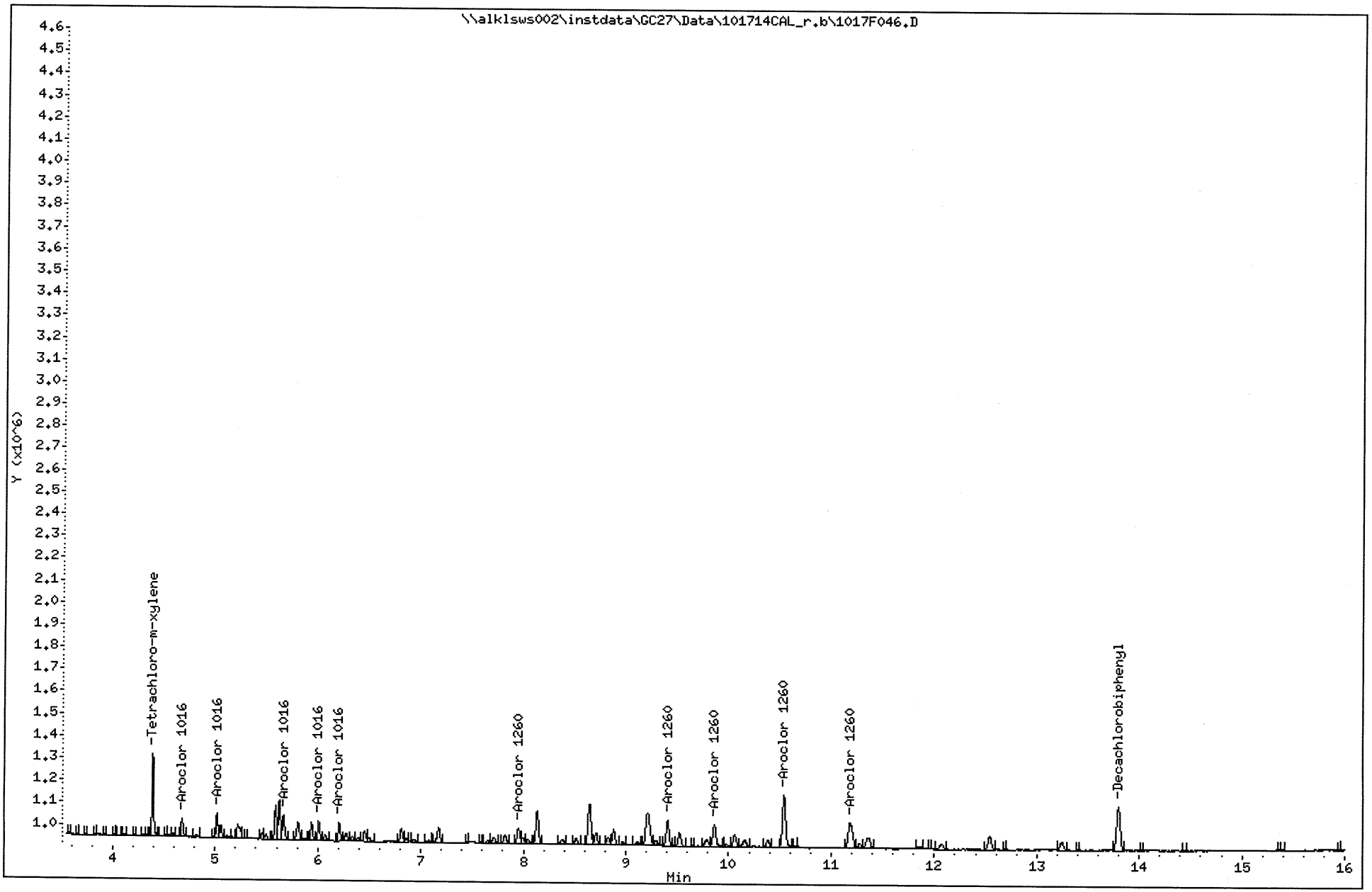


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

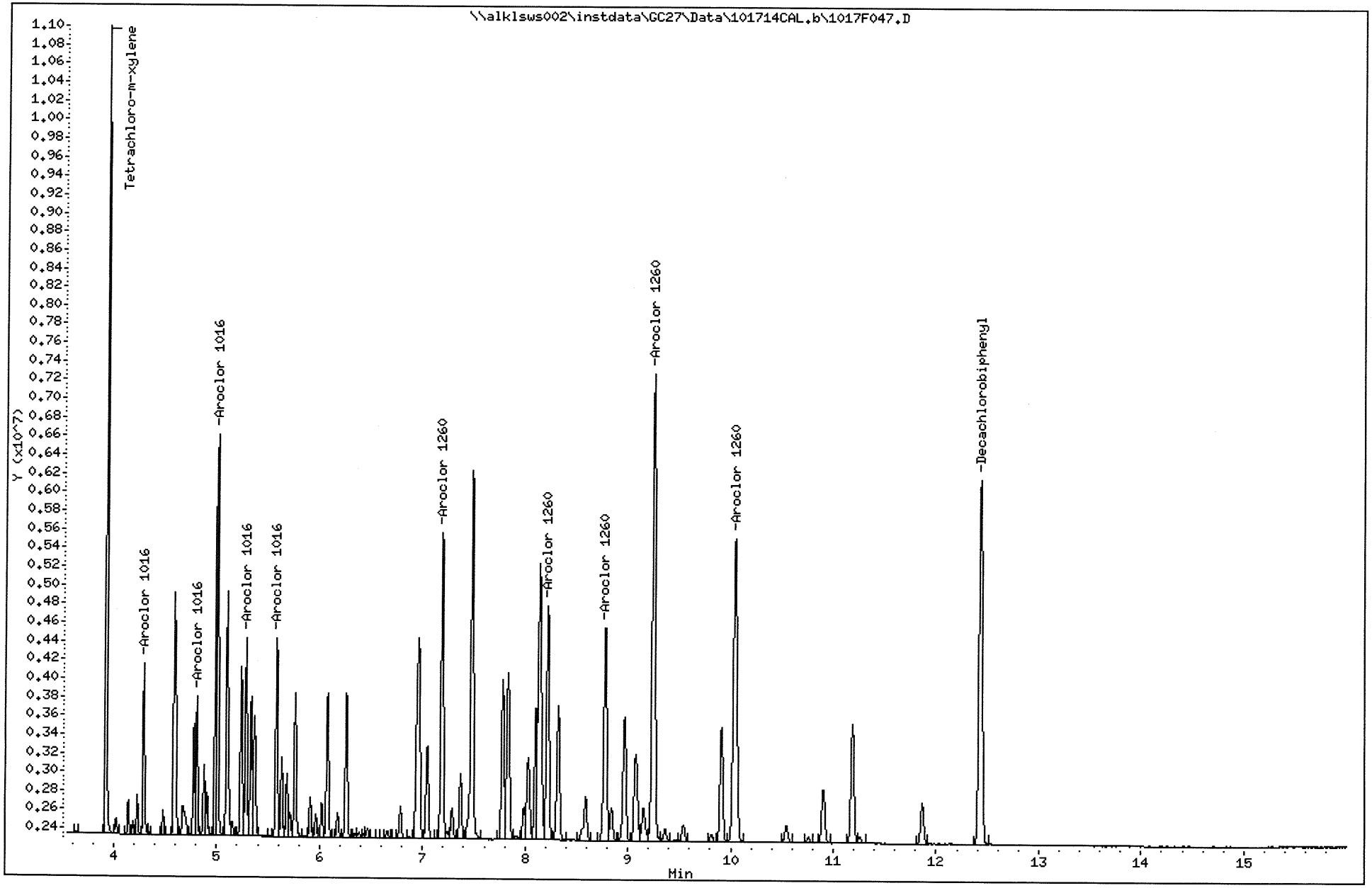
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



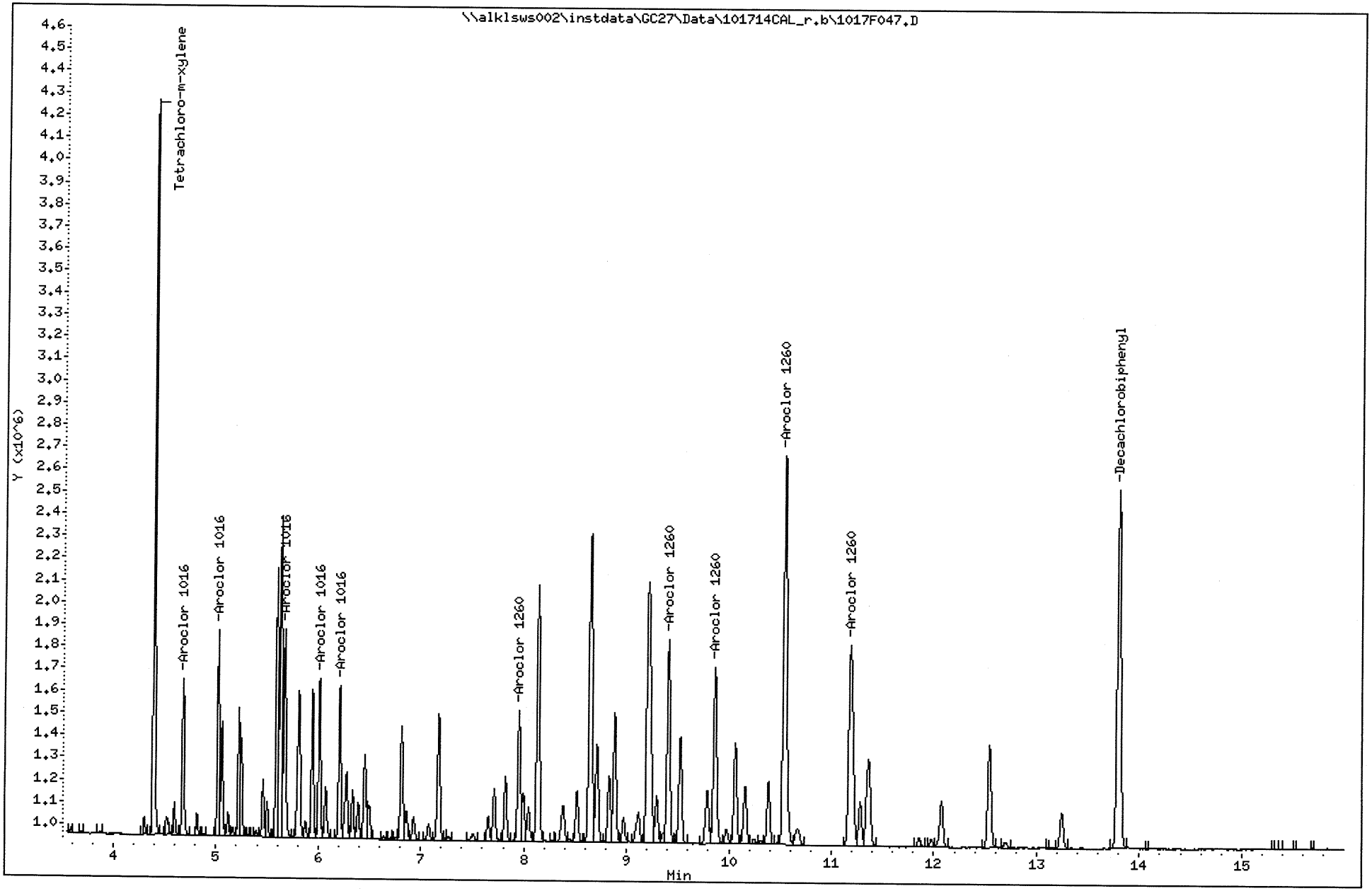
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

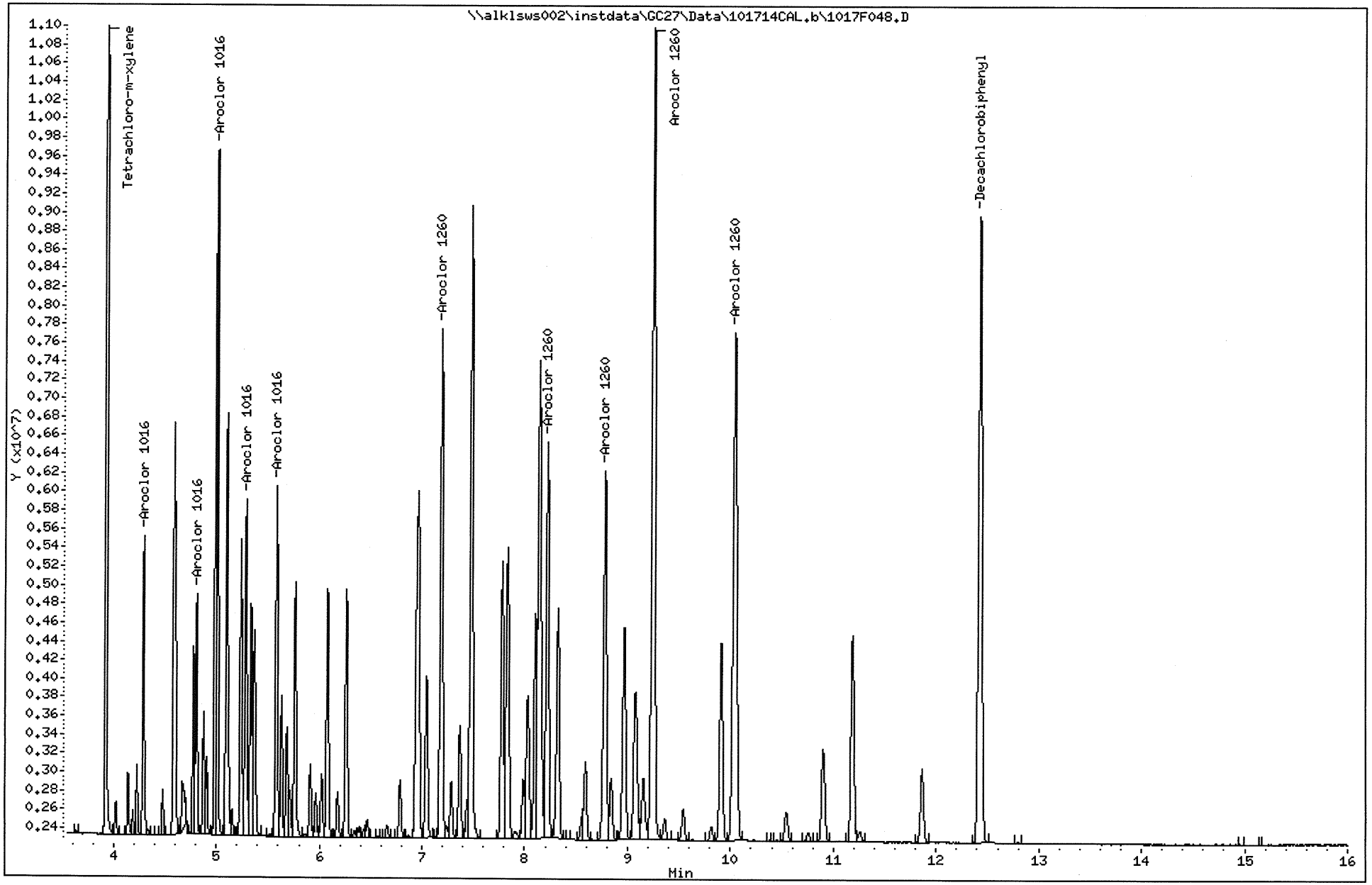
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



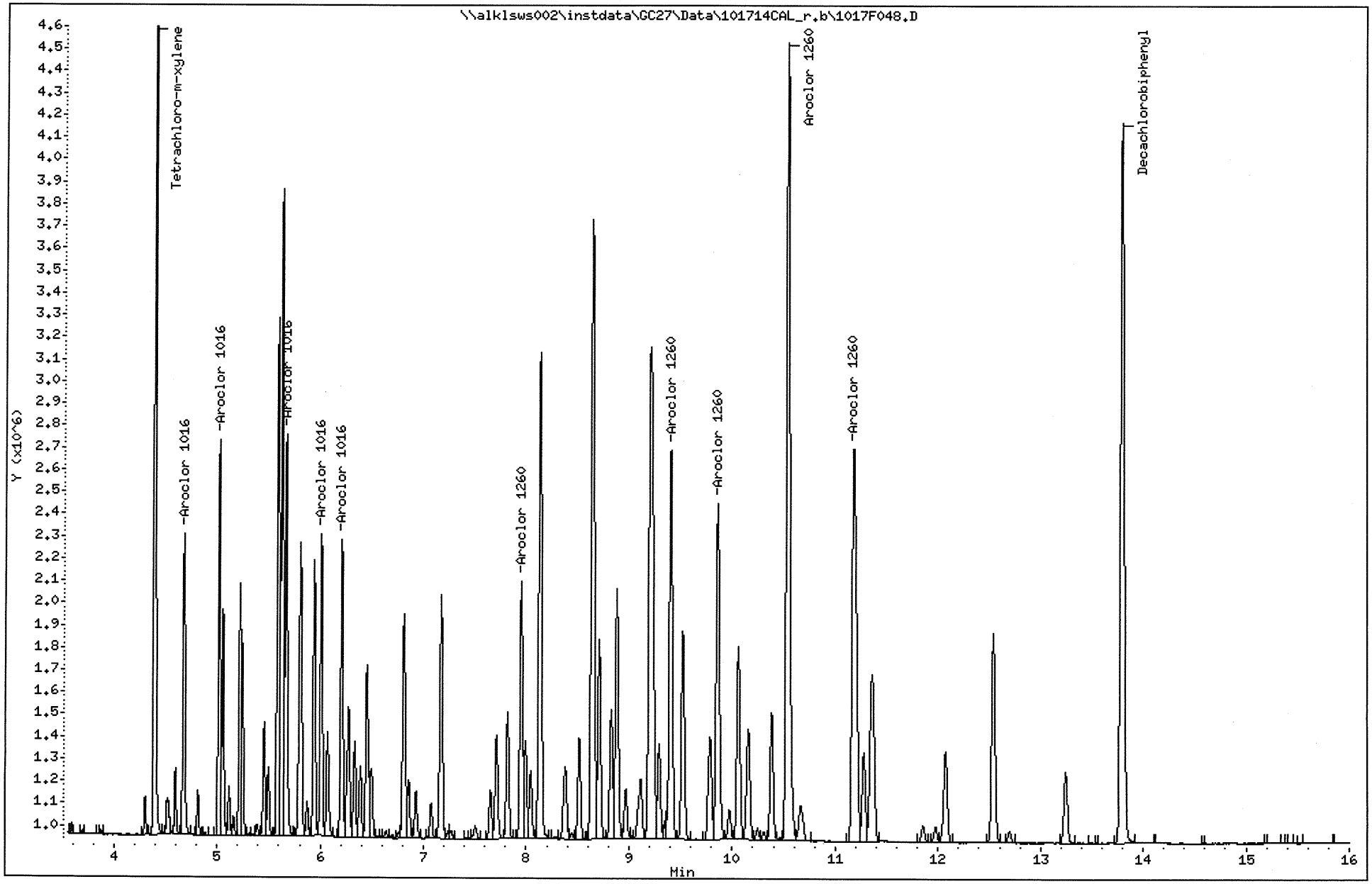
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

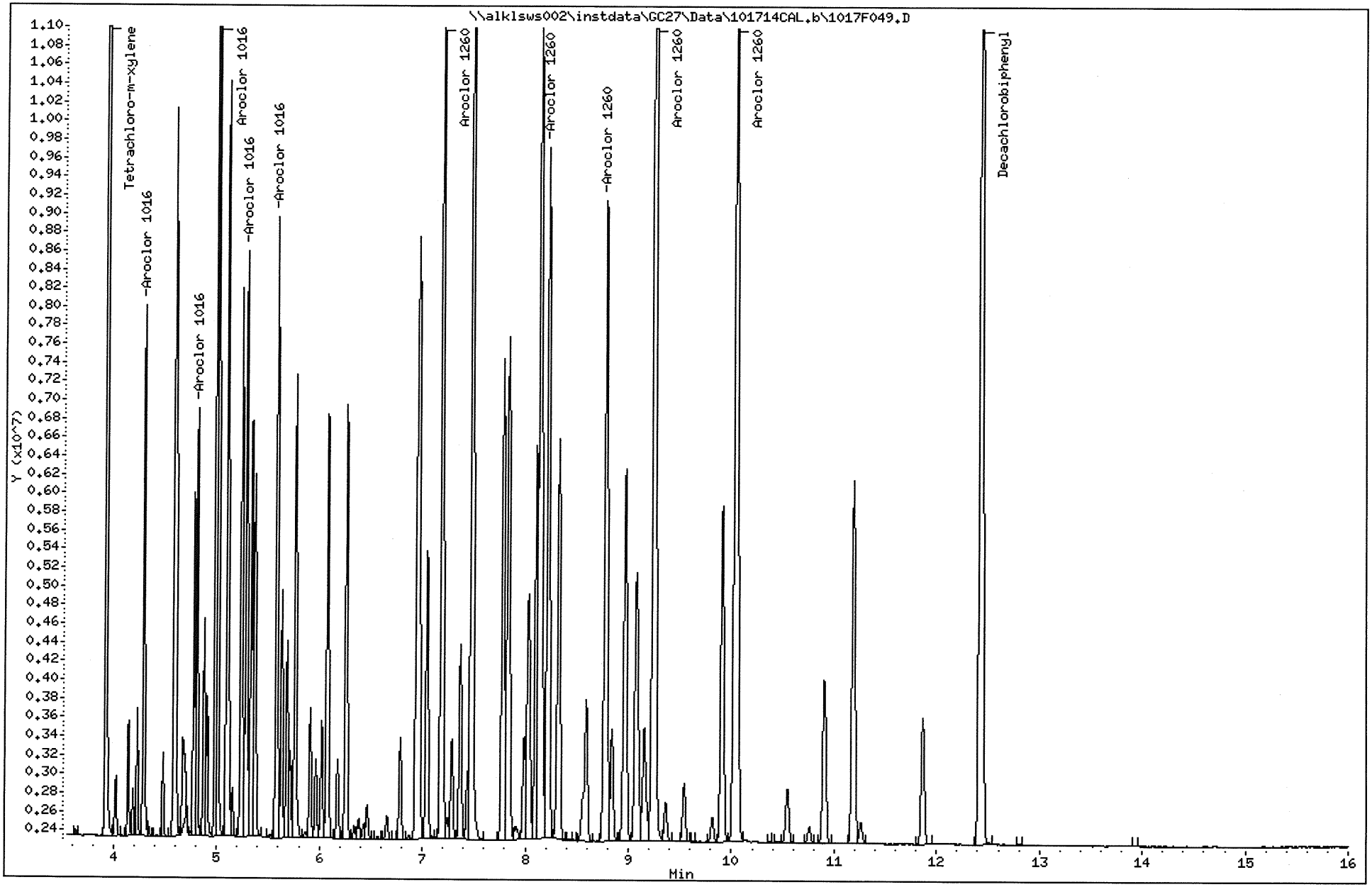
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

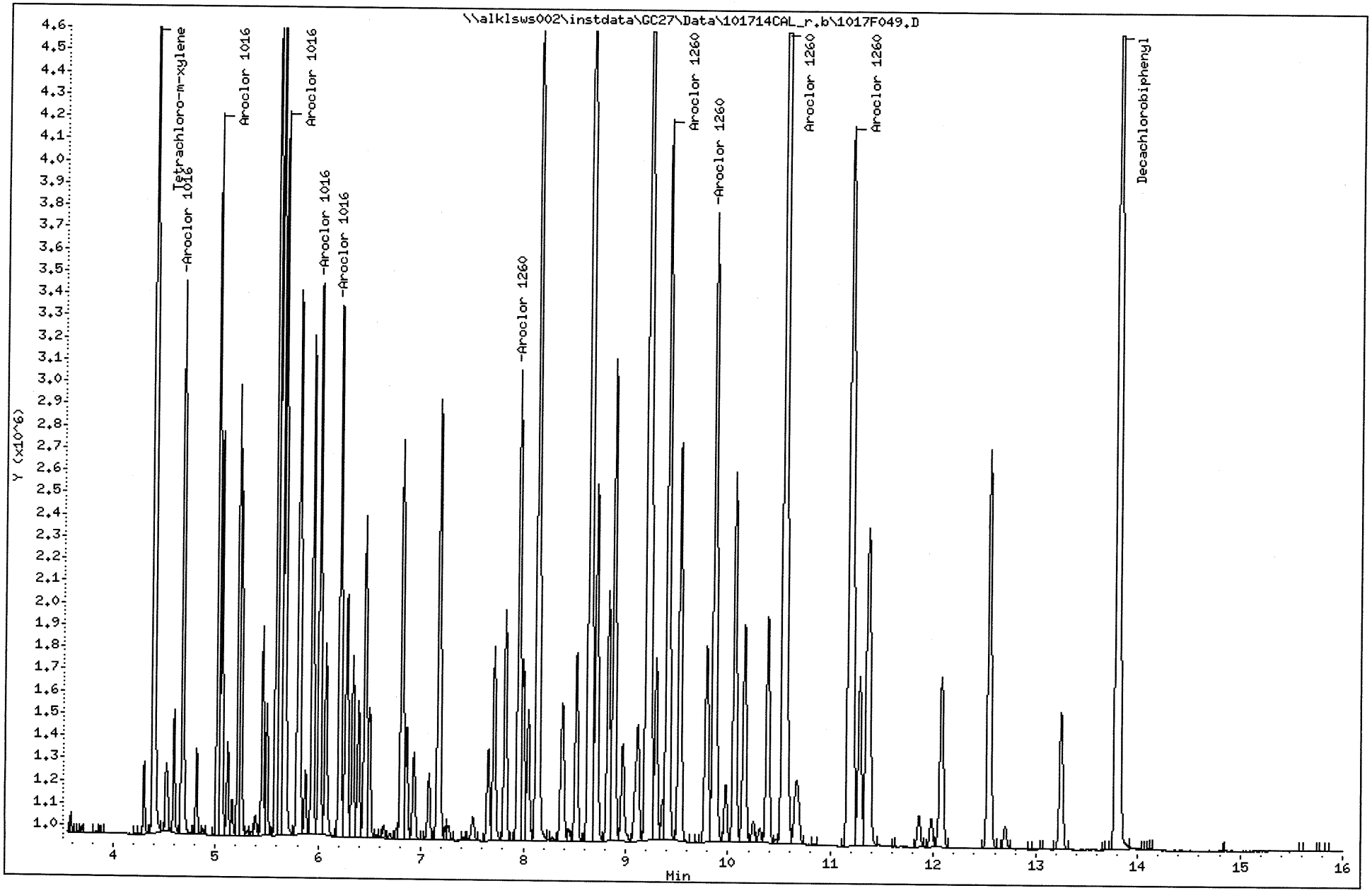


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

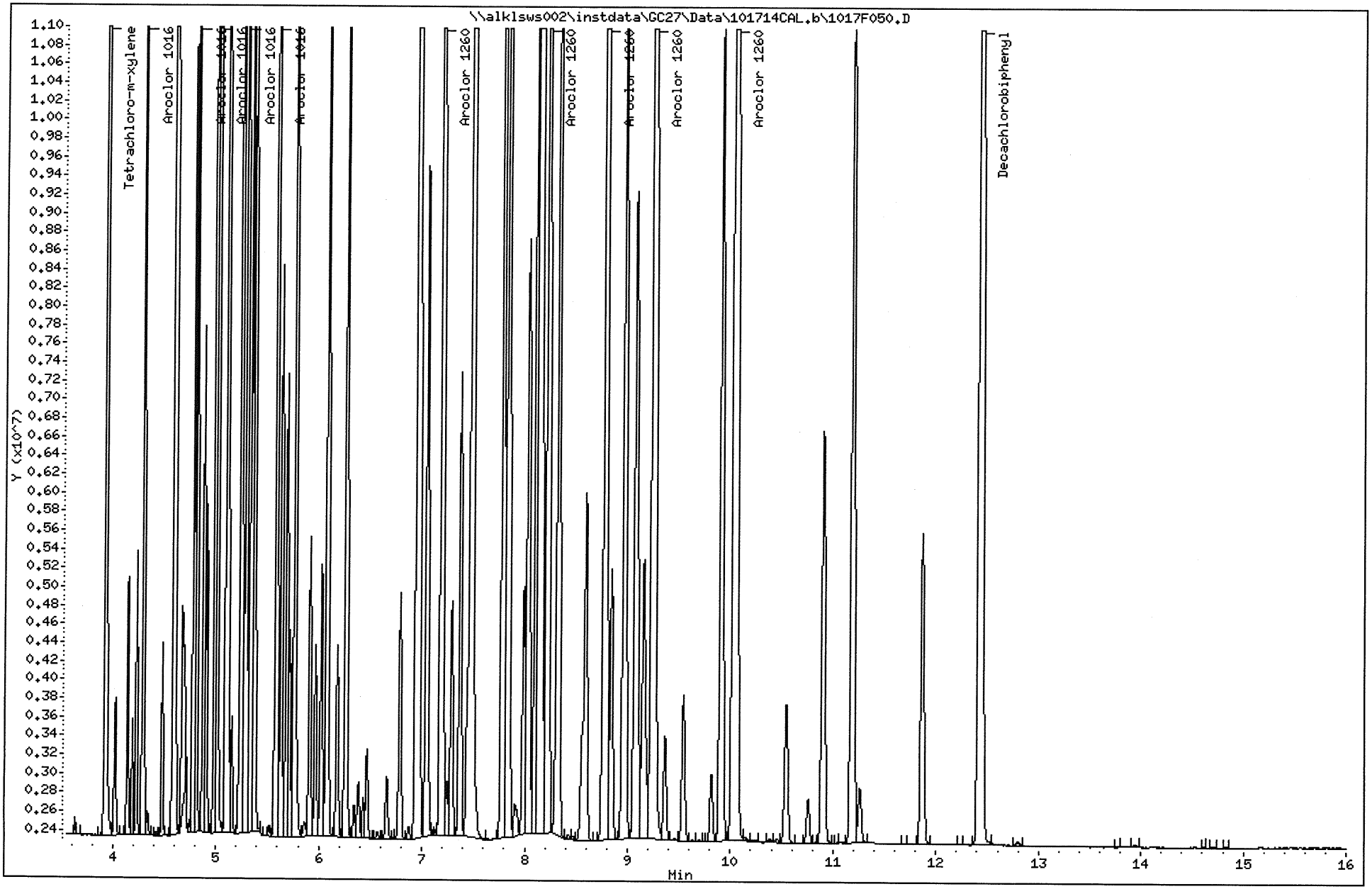
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



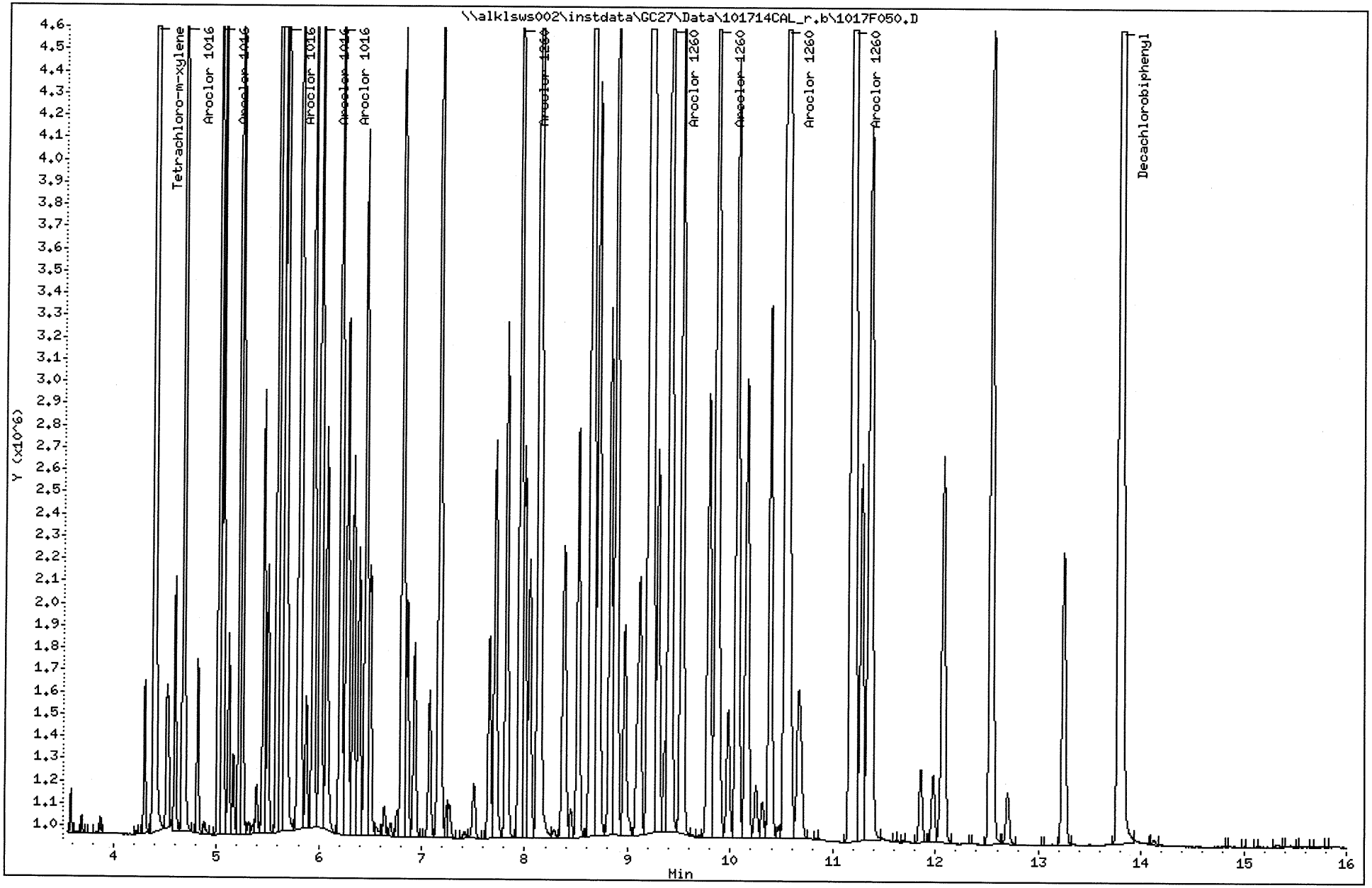
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

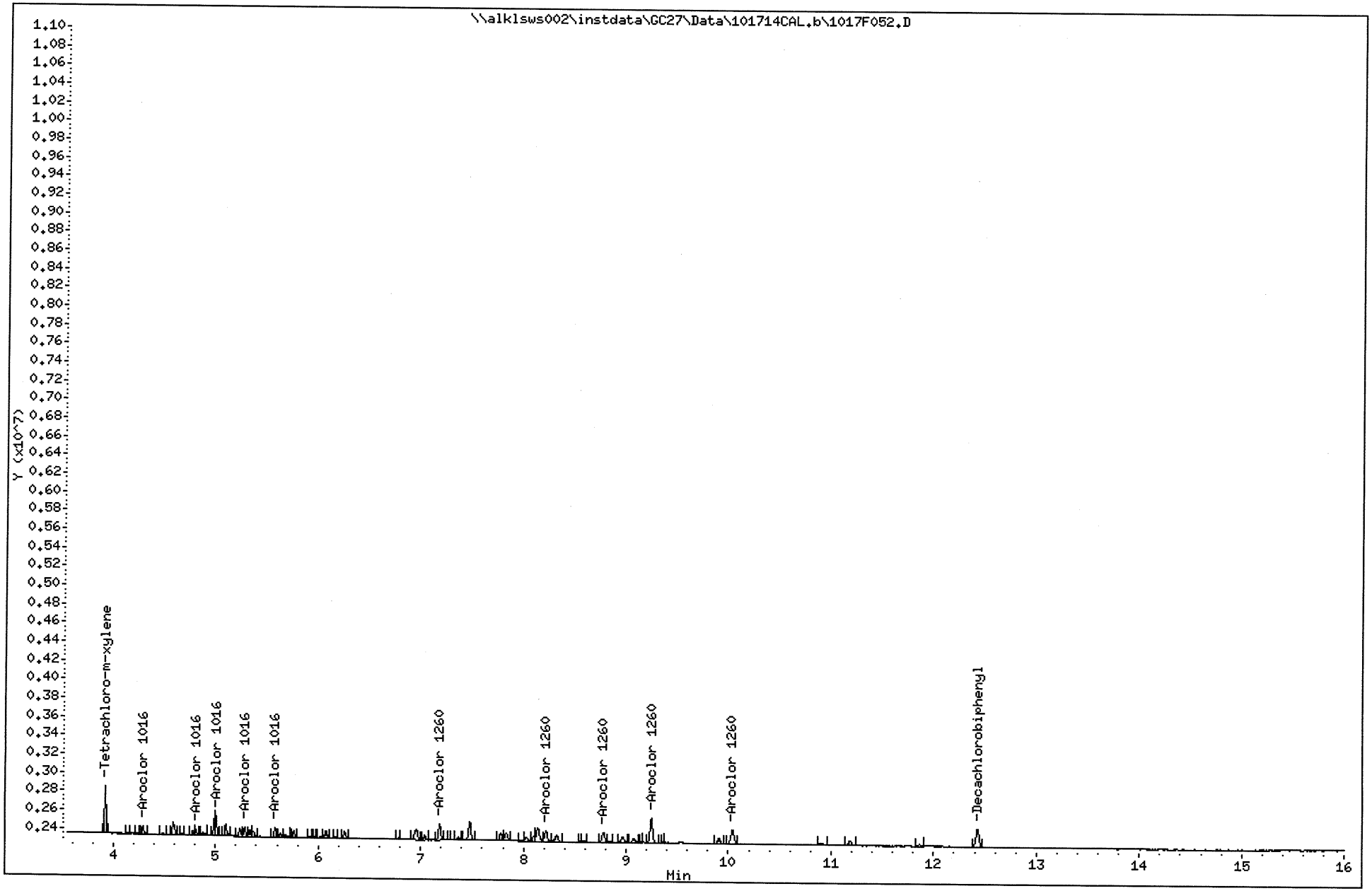
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



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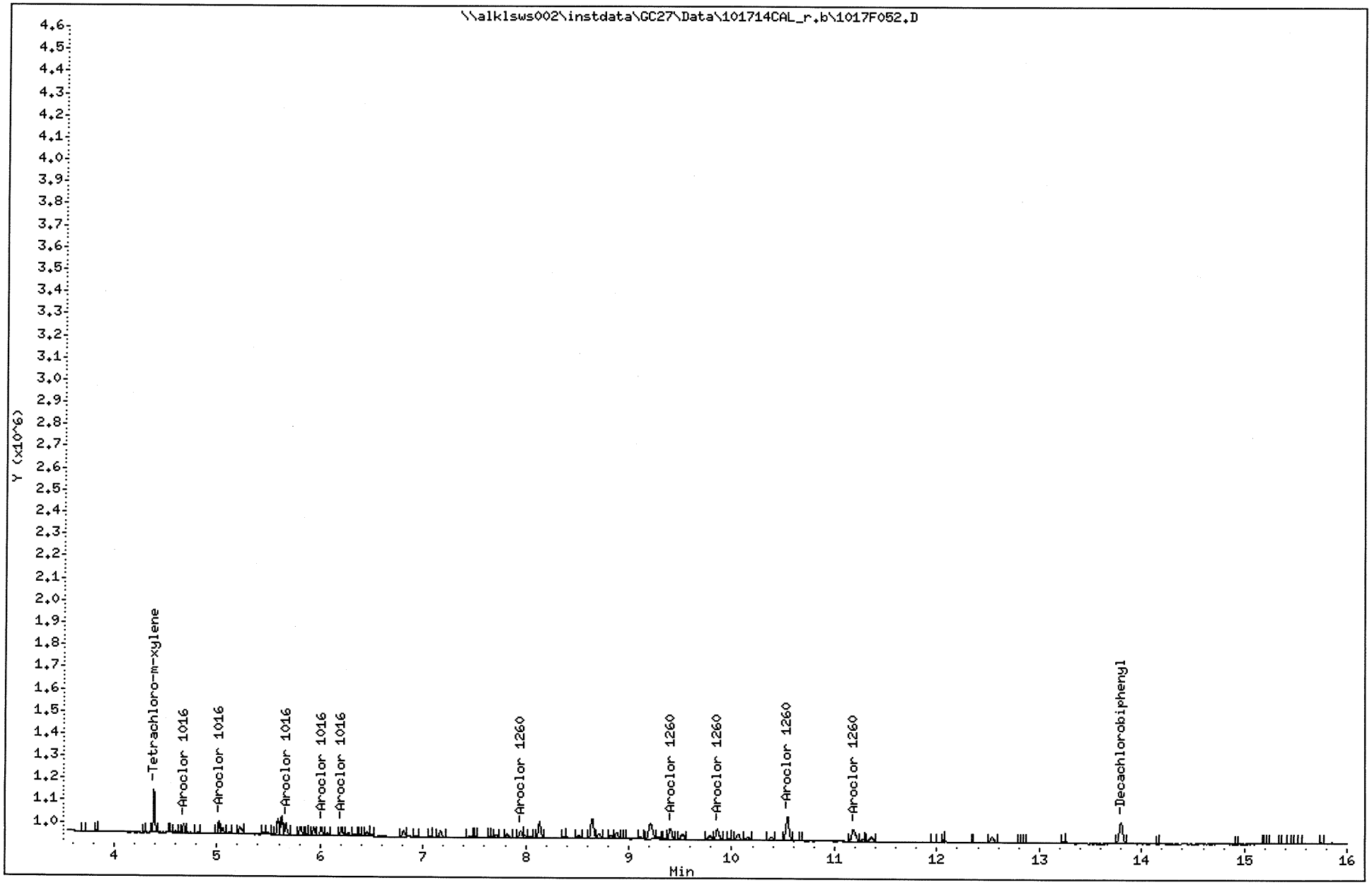
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

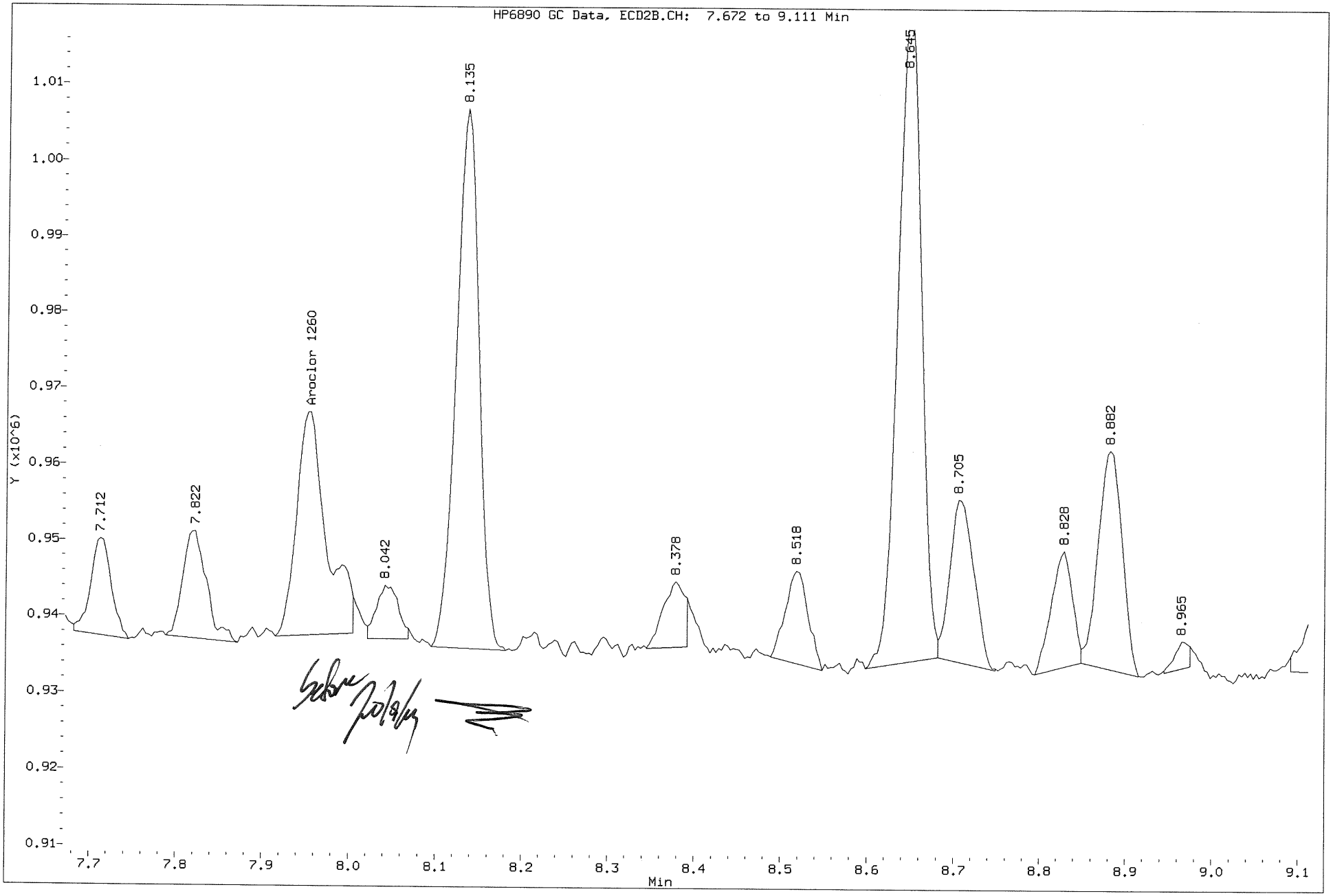
Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



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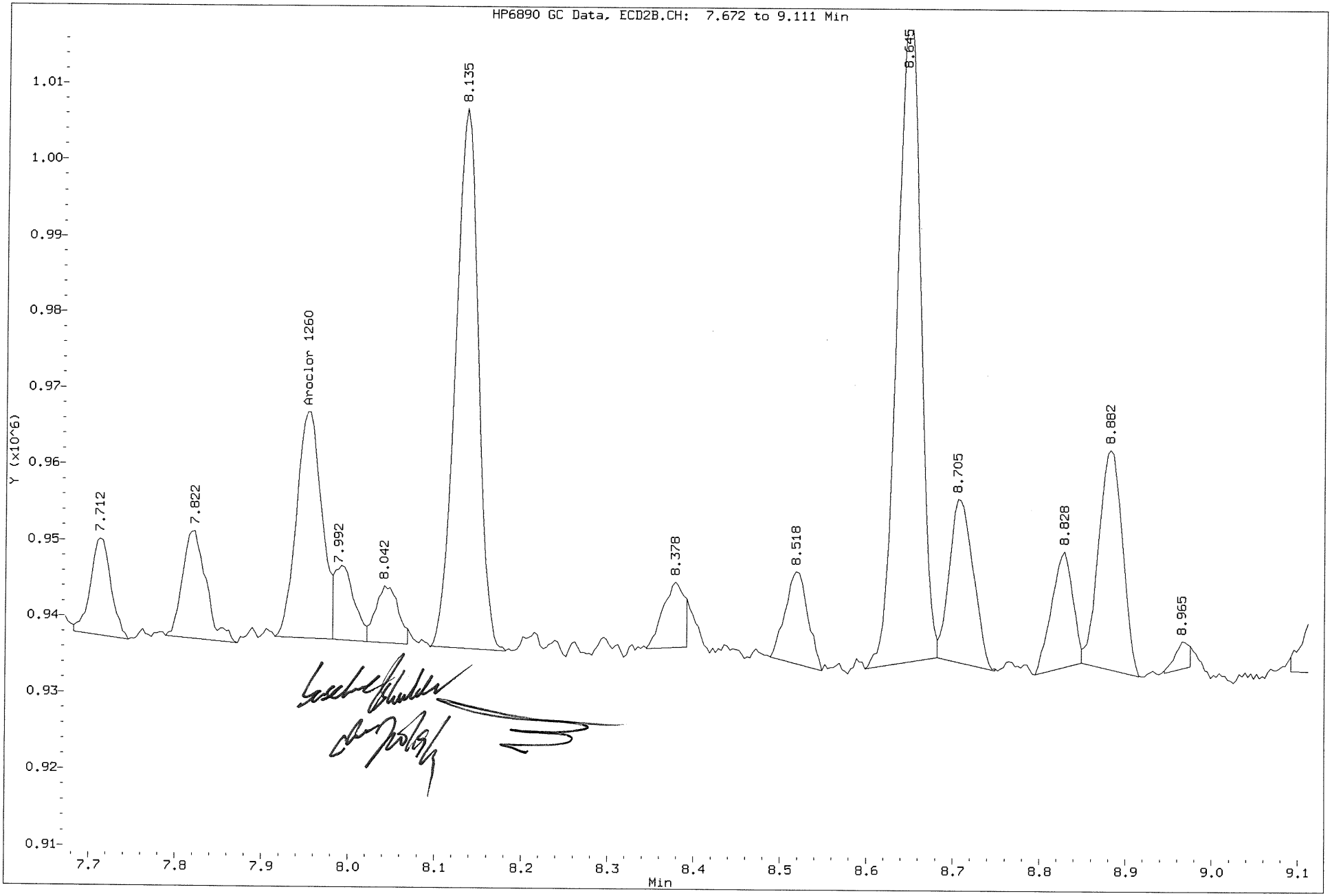
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

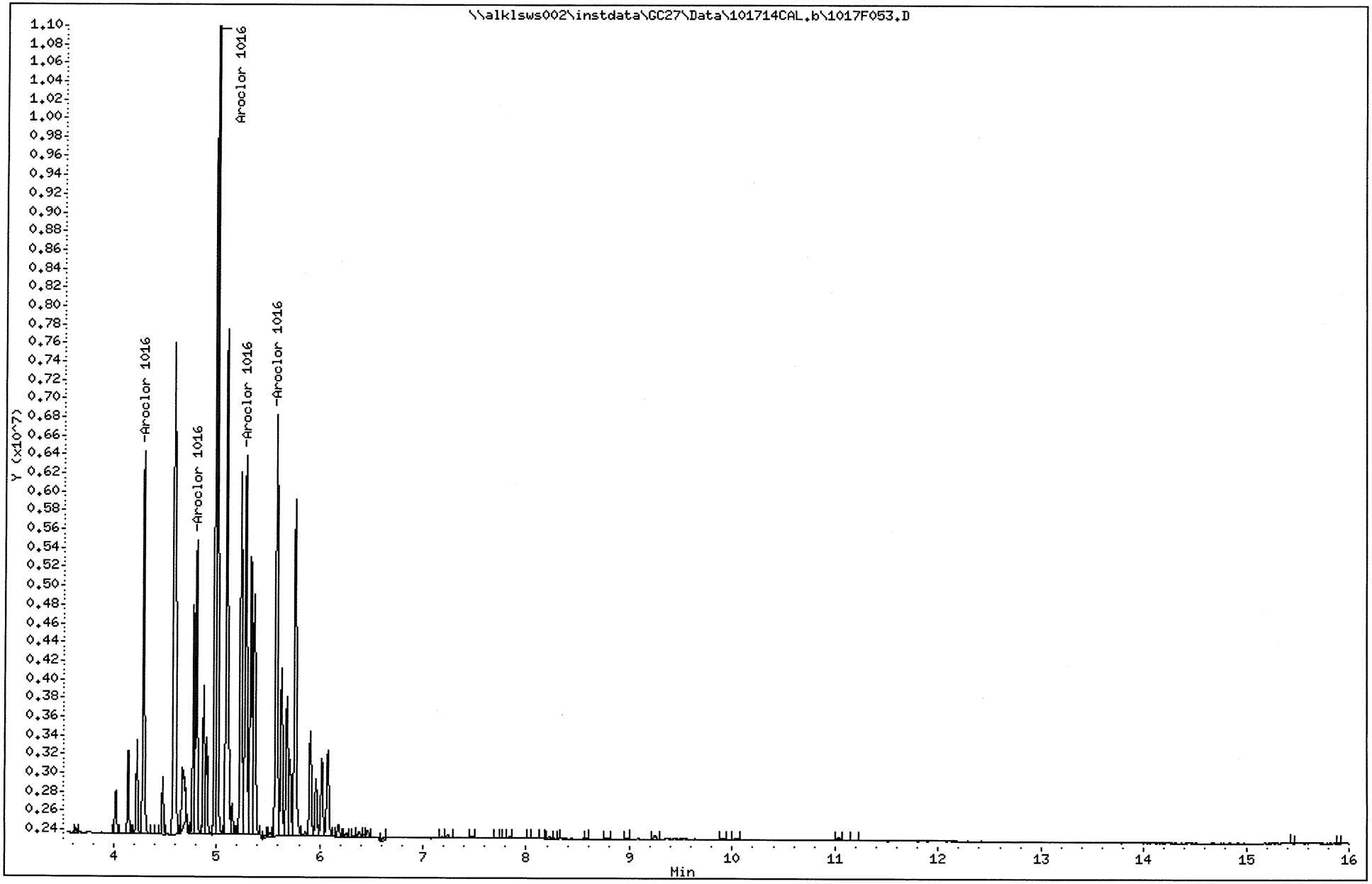
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



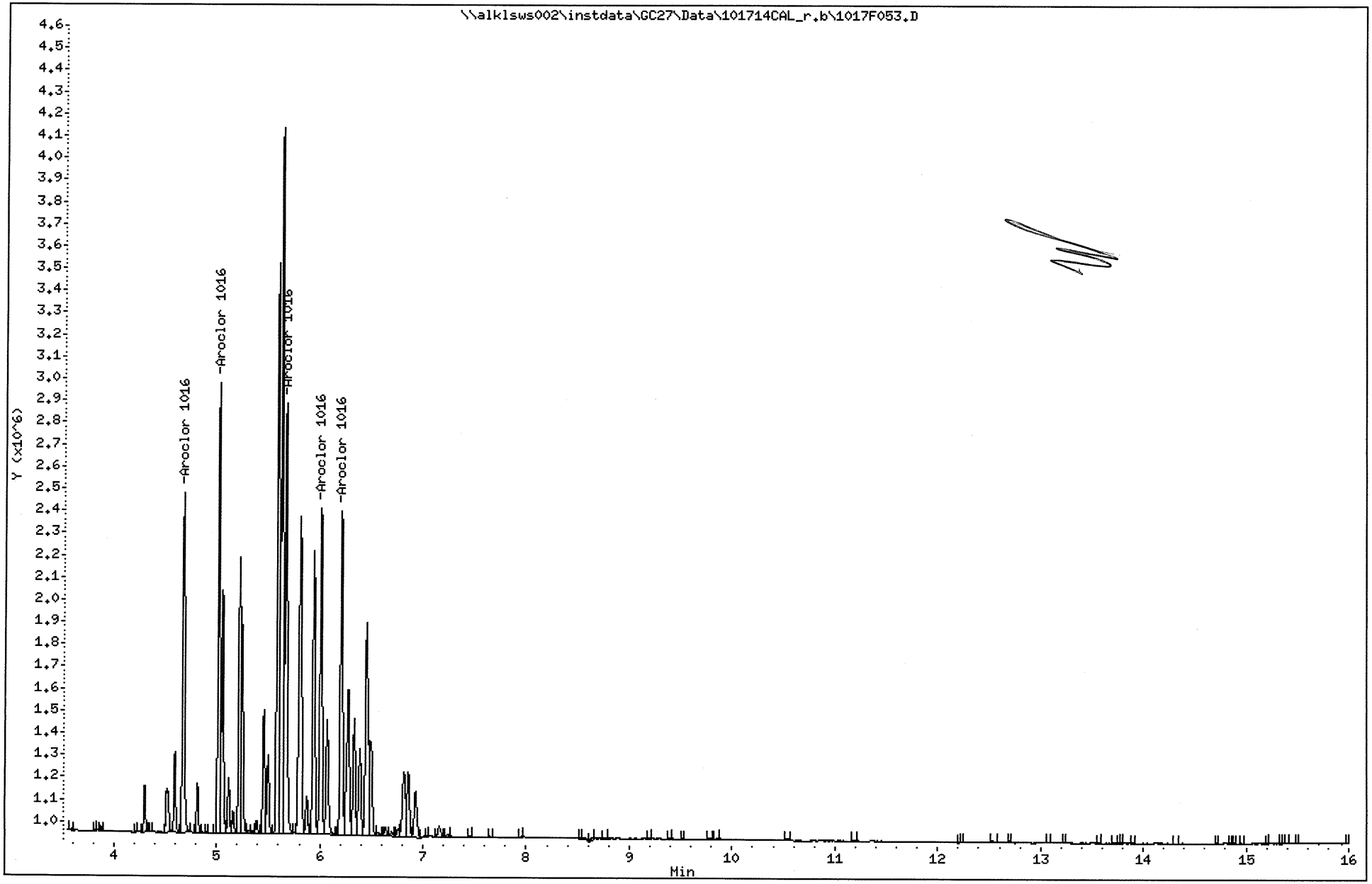
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

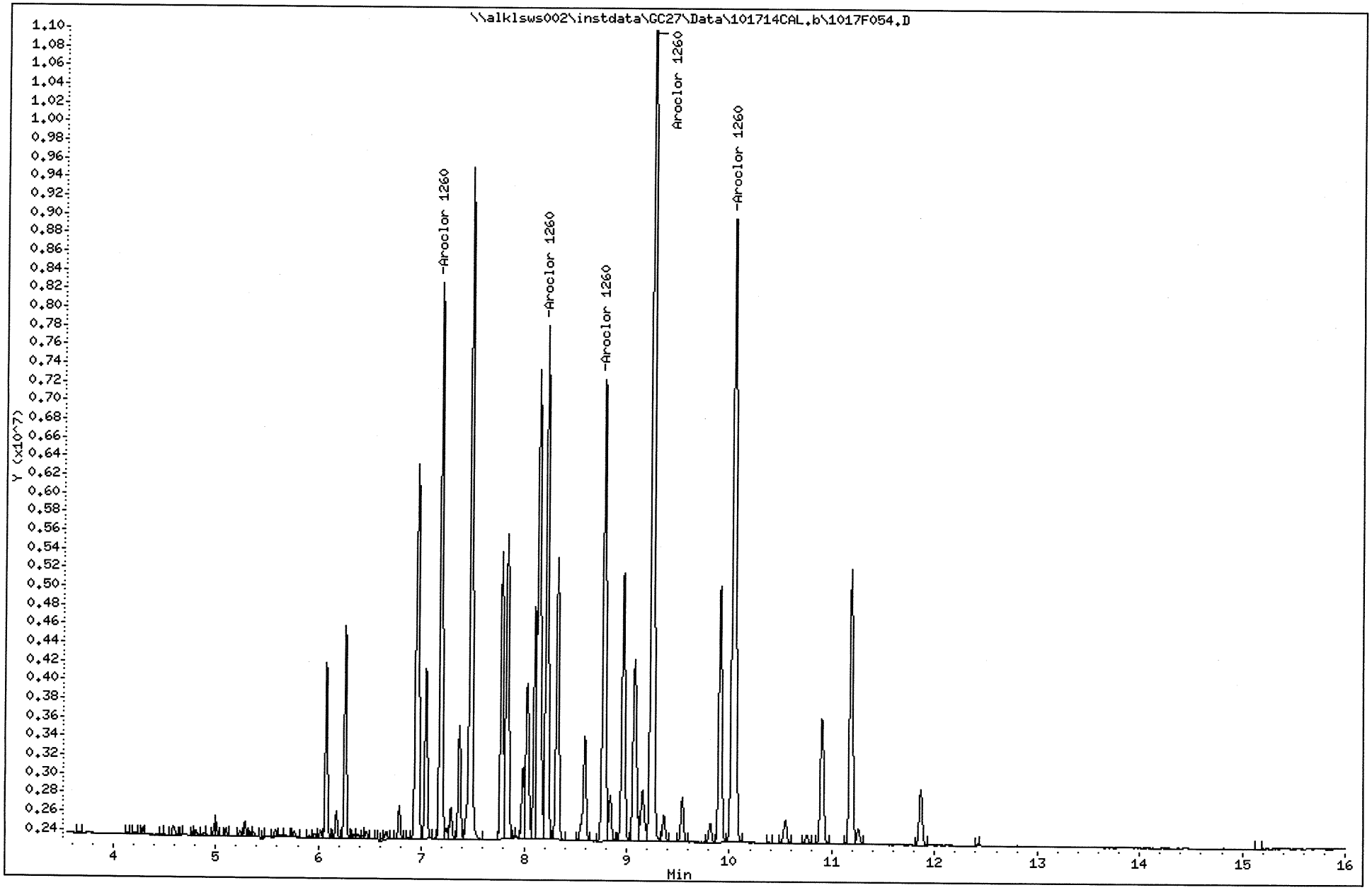
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



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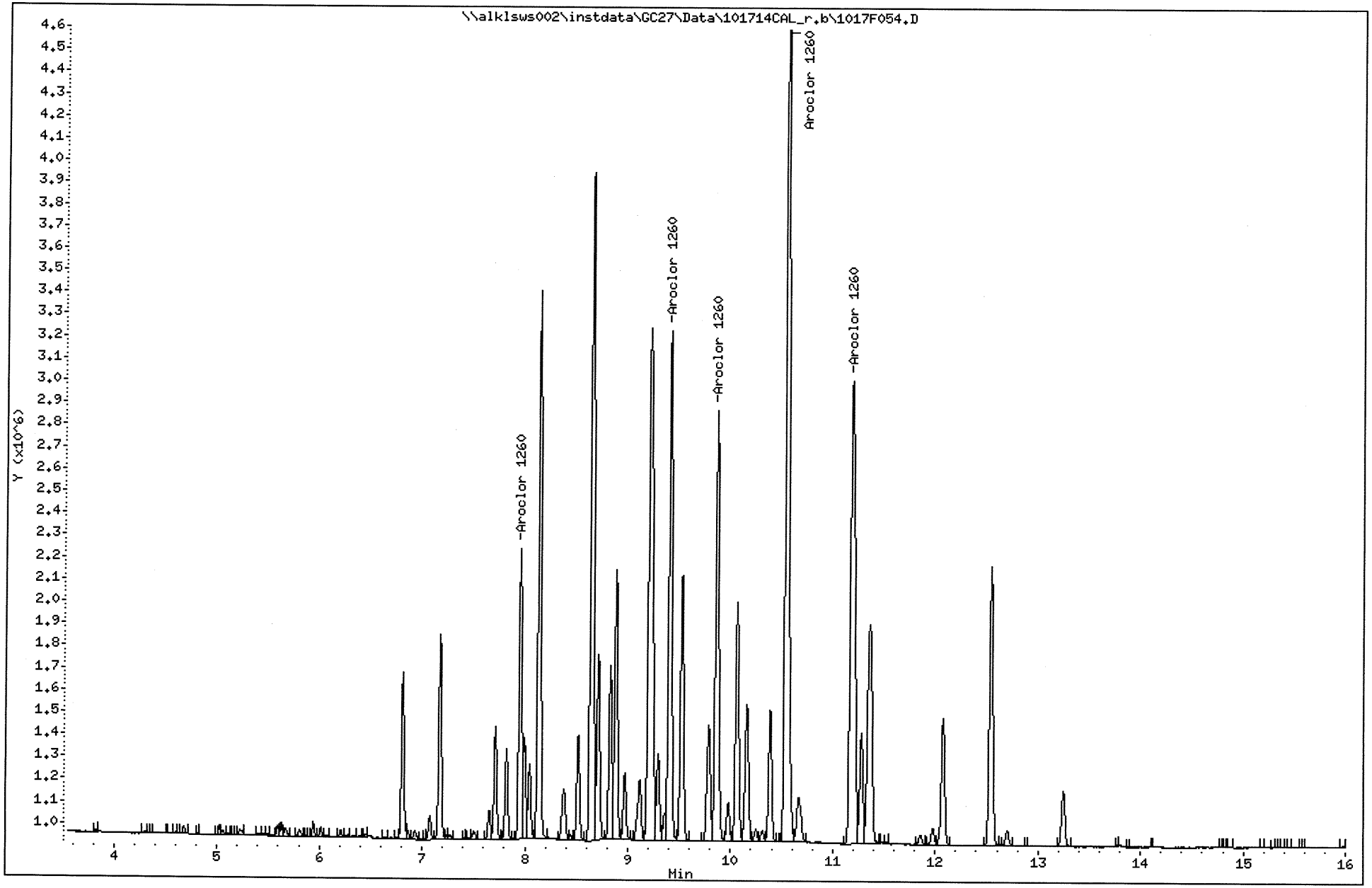
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Preparation Information

Group ID:	KWG1508618	**Prep Method:**	EPA 3541	**Prep Date:**	09/09/15 11:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509364-001	UBPE-1	8082A PCB LL	SOIL	40.148g	4ml	
K1509528-001	HR006	8082A PCB LL	SOIL	30.0520g	4ml	
K1509528-002	HR007	8082A PCB LL	SOIL	30.0767g	4ml	
K1509528-003	HR008	8082A PCB LL	SOIL	30.0844g	4ml	
K1509528-004	HR009	8082A PCB LL	SOIL	30.0026g	4ml	
K1509528-005	HR010	8082A PCB LL	SOIL	30.0739g	4ml	
K1509528-006	HR011	8082A PCB LL	SOIL	30.0244g	4ml	
K1509528-007	HR012	8082A PCB LL	SOIL	30.0776g	4ml	
K1509667-001	NAPE - 3	8082A PCB LL	SOIL	40.080g	4ml	
K1509667-002	NAPE - 2	8082A PCB LL	SOIL	40.053g	4ml	
K1509732-001	NAPE-1	8082A PCB LL	SOIL	40.324g	4ml	
KWG1508618-1	Matrix Spike	8082A PCB LL	SOIL	30.0686g	4ml	
KWG1508618-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	30.1926g	4ml	
KWG1508618-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508618-4	Method Blank	8082A PCB LL	SOIL	40.324g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508618-1	K1509528-006	
KWG1508618-2	K1509528-006	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509364-001	1465227					LMuresan
K1509528-001	1465228					LMuresan
K1509528-002	1465229					LMuresan
K1509528-003	1465230					LMuresan
K1509528-004	1465231					LMuresan
K1509528-005	1465232					LMuresan
K1509528-006	1465233					LMuresan
K1509528-007	1465223					LMuresan
K1509667-001	1465224					LMuresan
K1509667-002	1465225					LMuresan
K1509732-001	1465226					LMuresan
KWG1508618-1	1465234					LMuresan
KWG1508618-2	1465235					LMuresan
KWG1508618-3	1465236					LMuresan
KWG1508618-4	1465237					LMuresan

Comments:

					Training
Started By:	LLee	Assisted By:			Yes No
Completed By:	KMiller	Assisted By:			Yes No
Reviewed By:	Elissa Bruno	Date:	9-15-15	Storage:	

Chain of Custody

Relinquished By:		Date:	9-11-15	Extracts Examined
Received By:	MR for SM	Date:	09/15/15	Yes No

Preparation Information

Group ID: KWG1508618 **Prep Method:** EPA 3541 **Prep Date:** 09/09/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. µL	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1509364-001	UBPE-1 S	-	-	8082A PCB LL	SOIL	40.148	NA	10	4	200	—
2	K1509528-001	HR006	-	-	8082A PCB LL	SOIL	30.0520		10	4		—
3	K1509528-002	HR007	-	-	8082A PCB LL	SOIL	30.0767		10	4		—
4	K1509528-003	HR008	-	-	8082A PCB LL	SOIL	30.0844		10	4		—
5	K1509528-004	HR009	-	-	8082A PCB LL	SOIL	30.0026		10	4		—
6	K1509528-005	HR010	-	-	8082A PCB LL	SOIL	30.0739		10	4		—
7	K1509528-006	HR011	-	-	8082A PCB LL	SOIL	30.0244		10	4		—
8	K1509528-007	HR012	-	-	8082A PCB LL	SOIL	30.0776		10	4		—
9	K1509667-001	NAPE - 3 S, R	01	✓	8082A PCB LL	SOIL	40.080		10	4		—
10	K1509667-002	NAPE - 2 S, R	01	✓	8082A PCB LL	SOIL	40.053		10	4		—
11	K1509732-001	NAPE-1 O	01	✓	8082A PCB LL	SOIL	40.324		10	4		—
12	KWG1508618-1	Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.0686		10	4		100
13	KWG1508618-2	Duplicate Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.1926		10	4		
14	KWG1508618-3	Lab Control Sample	-	-	8082A PCB LL	SOIL	20.000		10	4		
15	KWG1508618-4	Method Blank	-	-	8082A PCB LL	SOIL	40.324		10	4		—

Comments: S: sand, R: rocks, O: organics prep lot# 2444179

Surrogate ID: PCB6-7SE, 2ppm, XP 2/11/16, 200 µL, EPP 10D
Spike ID: PCB6-7SE, 40 ppm, XP 12/29/15, 100 µL, EPP2A
Witness: RM, 9/9/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1509364, 9528, 9667, 9752 **Work Group # Pest:** —
PCB: KWG1508618

Weighed (time/date/initial): 1030 9/9/15 LL Balance ID: *K-Bal-* 5 Calibration Verified ☑

Storage Location (if not extracted same day): NA

DCM Lot # DN111 Sulfate Lot # K2S9001 Matrix Lot # 061614 Glass Wool Lot # 5071901

Soxtherm Start (time/date/initial): 1100 9/9/15 LL

Soxtherm Stop (time/date/initial): 1510 9/9/15 LM

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 8:15 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 9:30 9-10-15 K Hexane Lot# 101242
S-Evap (time/date/initial): — S-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 9:30 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:30 9-11-15 K Acid Lot # 54344

Other Clean-up: 3660B 9-11-15 K ☑ all samples ☐ some samples: Lot EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Goofy B1-C5

Archived Extract Storage: Nulley

Additional Comments:

Bench Sheet Review Check List

- ☑ Hold times met (if no, reason: _____)
- ☑ Prep date, time, method, department, product code correct in stealth
- ☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☑ Weights/Volumes and units correct on raw and final bench sheets
- ☑ Sample IDs have been checked - bottle numbers appended if required
- ☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
- ☑ Extract storage recorded
- ☑ Additional prep sheet completely filled out (NA or line out blanks)
- ☑ All clean-ups have been noted on additional prep sheet
- ☑ Signed service request with Form V, if applicable, has been attached

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September 25, 2015

Analytical Report for Service Request No: K1509667

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Riverbank SCM C1144 640

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 02, 2015
For your reference, these analyses have been assigned our service request number **K1509667.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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Qualifiers
State Certifications, Accreditations, And Licenses
Case Narrative
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Raw Data
    Total Solids
    Polychlorinated Biphenyls (PCBs)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Received:**	09/02/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two soil samples were received for analysis at ALS Environmental on 09/02/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

Elevated Detection Limits:
Sample NAPE – 3 required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:
Three Aroclors were identified in both field samples: Aroclor 1248, Aroclor 1254, and Aroclor 1260. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Aroclor 1260 was identified based on the presence of late eluting PCB peaks in the chromatogram. The remainder of the PCB pattern was identified as Aroclor 1254 because PCB peak height in the middle of the chromatogram was larger than could be attributed to either Aroclor 1242, Aroclor 1248, or Aroclor 1260.

Approved by_____

When Aroclor mixtures are present in a sample, care is taken to minimize the possibility of double-counting PCBs. Analytical peaks are selected based on the best resolution possible for that particular sample. However, when a mixture of Aroclors 1248, 1254 and 1260 are present in a sample, the potential exists for a high bias from contribution of one Aroclor to another due to common peaks or peaks that cannot be completely resolved.

No other anomalies associated with the analysis of these samples were observed.

Approved by_____

Chain of Custody

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CHAIN OF CUSTODY FORM K1509667

Project: Evraz Riverbank SCM C1144640
Samplers: JSUND

Integral Contact: Glenn Esler
Phone 503 943 3617

Ship to: Lab Name ALS
Address 1317 S. 13th Ave
Kelso, WA 98626
Contact Greg Salata
Phone 360 501 3376

integral consulting inc.

ANALYSES REQUESTED

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors								Extra Container	Archive	Comments
NAPE-3	2005	9/1/15	1340	SL	X										
NAPE-2	2006	9/1/15	1415	SL	X										

9/1/15

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Shipped by: ALS Courier **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) 9/2/15 0645 **Date/Time:** **Received by:** Kelly Reed/ALS (signature) **Date/Time:** 9/2/15 09:00

Relinquished by: (signature) **Date/Time:** **Received by:** (signature) **Date/Time:**

Special Instructions:
Follow instructions provided in project specific QAPP. Questions, call G. Esler.

PC Grg

Cooler Receipt and Preservation Form

Client / Project: EVRAZ Service Request *K15* 096667

Received: 9/2/15 Opened: 9/2/15 By: KR Unloaded: 9/2/15 By: KR

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front 1 Back
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.7	-0.4	0.2	0.5	+0.3	360			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Total Solids

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/1/15
Sample Matrix:	Soil	**Date Received:**	09/2/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
NAPE - 3	K1509667-001	**93.2**	-	-	1	09/03/15 11:21	
NAPE - 2	K1509667-002	**86.9**	-	-	1	09/03/15 11:21	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project	Evraz Riverbank SCM C1144 640	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Analyzed:	09/03/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	Percent
Lab Code:	K1509443-002	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K1509443-002DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	-	85.1	85.2	85.2	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
NAPE - 3	K1509667-001	09/01/2015	09/02/2015
NAPE - 2	K1509667-002	09/01/2015	09/02/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/01/2015
Sample Matrix:	Soil	**Date Received:**	09/02/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	NAPE - 3	**Units:**	ug/Kg
Lab Code:	K1509667-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1221	ND	U	110	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1232	ND	U	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1242	ND	U	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1248	**380**	D	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1254	**440**	D	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1260	**64**	D	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1262	ND	U	54	21	10	09/09/15	09/15/15	KWG1508618	
Aroclor 1268	ND	U	54	21	10	09/09/15	09/15/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	98	43-148	09/15/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/01/2015
Sample Matrix:	Soil	**Date Received:**	09/02/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	NAPE - 2	**Units:**	ug/Kg
Lab Code:	K1509667-002	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1221	ND	U	12	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1232	ND	U	5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1242	ND	U	5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1248	**50**		5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1254	**75**		5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1260	**21**		5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1262	ND	U	5.8	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1268	ND	U	5.8	2.1	1	09/09/15	09/12/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	43-148	09/12/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1508618-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1221	ND	U	10	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1232	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1242	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1248	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1254	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1260	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1262	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	
Aroclor 1268	ND	U	5.0	2.1	1	09/09/15	09/12/15	KWG1508618	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	93	43-148	09/12/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
Batch QC	K1509528-006	83
NAPE - 3	K1509667-001	98 D
NAPE - 2	K1509667-002	75
Method Blank	KWG1508618-4	93
Batch QCMS	KWG1508618-1	98
Batch QCDMS	KWG1508618-2	90
Lab Control Sample	KWG1508618-3	88

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/11/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1509528-006	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

		Batch QCMS KWG1508618-1 Matrix Spike			Batch QCDMS KWG1508618-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	106	134	79	103	134	77	23-145	2	40
Aroclor 1260	39	153	134	85	145	134	79	24-148	6	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1508618

	Lab Control Sample KWG1508618-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	130	200	65	42-122
Aroclor 1260	171	200	85	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	01:09

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-4	**File ID:**	J:\GC27\DATA\091115.B\0911F022.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
NAPE - 2	K1509667-002	J:\GC27\DATA\091115.B\0911F019.D	09/12/15	00:00
Lab Control Sample	KWG1508618-3	J:\GC27\DATA\091115.B\0911F021.D	09/12/15	00:46
NAPE - 3	K1509667-001	J:\GC27\DATA\091515.B\0915F005.D	09/15/15	16:13

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Extracted:**	09/09/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/12/2015
		Time Analyzed:	00:46

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1508618-3	**File ID:**	J:\GC27\DATA\091115.B\0911F021.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508618

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Batch QC	K1509528-006	J:\GC27\DATA\091115.B\0911F012.D	09/11/15	21:17
Batch QCMS	KWG1508618-1	J:\GC27\DATA\091115.B\0911F013.D	09/11/15	21:40
Batch QCDMS	KWG1508618-2	J:\GC27\DATA\091115.B\0911F014.D	09/11/15	22:04
NAPE - 2	K1509667-002	J:\GC27\DATA\091115.B\0911F019.D	09/12/15	00:00
Method Blank	KWG1508618-4	J:\GC27\DATA\091115.B\0911F022.D	09/12/15	01:09
NAPE - 3	K1509667-001	J:\GC27\DATA\091515.B\0915F005.D	09/15/15	16:13

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID:
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640 **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	158000	164000	4	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	3590	3510	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8810	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	4960	4250	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4430	-14	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	440	9850	8680	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7790	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	8230	8010	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18600	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	14200	14400	2	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86800	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	1840	1820	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	2430	2400	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2670	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	470	2200	2050	-6	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	2000	-7	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	490	2210	2180	-1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3970	5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	8630	9030	5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5940	6	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	58	158000	183000	16	NA	± 20	AverageRF
Aroclor 1016 {1}	500	550	3590	3970	11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	530	3000	3180	6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	510	9890	10000	1	NA	± 100	AverageRF
Aroclor 1016 {4}	500	500	4960	4980	0	NA	± 100	AverageRF
Aroclor 1016 {5}	500	490	5180	5090	-2	NA	± 100	AverageRF
Aroclor 1016	500	520	NA	NA	NA	3	± 20	NA
Aroclor 1260 {1}	500	510	9850	9960	1	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8430	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	8230	8480	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19400	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/11/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	86900	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2190	-10	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2510	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1890	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1840	-15	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	510	2210	2260	2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	540	3780	4080	8	NA	± 100	AverageRF
Aroclor 1260 {3}	500	680	3610	4920	36	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5970	7	NA	± 100	AverageRF
Aroclor 1260	500	560	NA	NA	NA	12	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	158000	170000	8	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3740	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2930	-2	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	9890	8620	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	4960	4470	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4680	-10	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	460	9850	9070	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8080	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8240	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	18800	19200	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14900	5	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/12/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1508799
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	82400	87600	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	490	1840	1800	-2	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	2430	2420	-1	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	3000	2710	-10	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	2200	2020	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	2160	1970	-9	NA	± 100	AverageRF
Aroclor 1016	500	470	NA	NA	NA	-6	± 20	NA
Aroclor 1260 {1}	500	490	2210	2140	-3	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	3780	3920	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	3610	3750	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	530	8630	9150	6	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5890	5	NA	± 100	AverageRF
Aroclor 1260	500	520	NA	NA	NA	3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/15/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509033
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	53	158000	167000	6	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	3590	3570	0	NA	± 100	AverageRF
Aroclor 1016 {2}	500	480	3000	2880	-4	NA	± 100	AverageRF
Aroclor 1016 {3}	500	480	9890	9580	-3	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4570	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4720	-9	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-5	± 20	NA
Aroclor 1260 {1}	500	470	9850	9220	-6	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8140	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8300	1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	18800	19100	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14700	4	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/15/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509033
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	83700	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1580	-14	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2070	-15	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2430	-19	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	2200	1820	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1780	-17	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-16	± 20	NA
Aroclor 1260 {1}	500	460	2210	2020	-9	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3710	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3560	-1	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8590	0	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5780	3	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/15/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509033
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F009.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	161000	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	3590	3430	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8810	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4380	-12	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4490	-13	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	440	9850	8740	-11	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7750	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7880	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18200	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14200	0	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-5	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640

Service Request: K1509667
Date Analyzed: 09/15/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509033
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F009.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	82700	0	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1590	-14	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2110	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	400	3000	2410	-20	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	2200	1800	-18	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	2160	1770	-18	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-17	± 20	NA
Aroclor 1260 {1}	500	450	2210	2000	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	3780	3630	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	3610	3470	-4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8390	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5550	-1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1508799
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0911F003.D	Continuing Calibration Verification	KWG1508799-1	9/11/2015	17:47		9/11/2015	17:47
0911F004.D	Instrument Blank	KWG1508799-2	9/11/2015	18:10		9/11/2015	18:10
0911F005.D	ZZZZZZ	ZZZZZZ	9/11/2015	18:34		9/11/2015	18:34
0911F006.D	ZZZZZZ	ZZZZZZ	9/11/2015	18:57		9/11/2015	18:57
0911F007.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:21		9/11/2015	19:21
0911F008.D	ZZZZZZ	ZZZZZZ	9/11/2015	19:44		9/11/2015	19:44
0911F009.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:07		9/11/2015	20:07
0911F010.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:31		9/11/2015	20:31
0911F011.D	ZZZZZZ	ZZZZZZ	9/11/2015	20:54		9/11/2015	20:54
0911F012.D	Batch QC	K1509528-006	9/11/2015	21:17		9/11/2015	21:17
0911F013.D	Batch QCMS	KWG1508618-1	9/11/2015	21:40		9/11/2015	21:40
0911F014.D	Batch QCDMS	KWG1508618-2	9/11/2015	22:04		9/11/2015	22:04
0911F015.D	Continuing Calibration Verification	KWG1508799-3	9/11/2015	22:27		9/11/2015	22:27
0911F016.D	Instrument Blank	KWG1508799-4	9/11/2015	22:50		9/11/2015	22:50
0911F017.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:13		9/11/2015	23:13
0911F018.D	ZZZZZZ	ZZZZZZ	9/11/2015	23:37		9/11/2015	23:37
0911F019.D	NAPE - 2	K1509667-002	9/12/2015	00:00		9/12/2015	00:00
0911F020.D	ZZZZZZ	ZZZZZZ	9/12/2015	00:23		9/12/2015	00:23
0911F021.D	Lab Control Sample	KWG1508618-3	9/12/2015	00:46		9/12/2015	00:46
0911F022.D	Method Blank	KWG1508618-4	9/12/2015	01:09		9/12/2015	01:09
0911F023.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:33		9/12/2015	01:33
0911F024.D	ZZZZZZ	ZZZZZZ	9/12/2015	01:56		9/12/2015	01:56
0911F025.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:19		9/12/2015	02:19
0911F026.D	ZZZZZZ	ZZZZZZ	9/12/2015	02:42		9/12/2015	02:42
0911F027.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:06		9/12/2015	03:06
0911F028.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:29		9/12/2015	03:29
0911F029.D	ZZZZZZ	ZZZZZZ	9/12/2015	03:53		9/12/2015	03:53
0911F030.D	Continuing Calibration Verification	KWG1508799-5	9/12/2015	04:16		9/12/2015	04:16
0911F031.D	Instrument Blank	KWG1508799-6	9/12/2015	04:39		9/12/2015	04:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1509667
Project: Evraz Riverbank SCM C1144 640

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509033
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0915F003.D	Continuing Calibration Verification	KWG1509033-1	9/15/2015	15:25		9/15/2015	15:25
0915F004.D	Instrument Blank	KWG1509033-2	9/15/2015	15:49		9/15/2015	15:49
0915F005.D	NAPE - 3	K1509667-001	9/15/2015	16:13		9/15/2015	16:13
0915F006.D	ZZZZZZ	ZZZZZZ	9/15/2015	16:37		9/15/2015	16:37
0915F007.D	ZZZZZZ	ZZZZZZ	9/15/2015	17:01		9/15/2015	17:01
0915F008.D	ZZZZZZ	ZZZZZZ	9/15/2015	17:24		9/15/2015	17:24
0915F009.D	Continuing Calibration Verification	KWG1509033-3	9/15/2015	17:48		9/15/2015	17:48
0915F010.D	Instrument Blank	KWG1509033-4	9/15/2015	18:12		9/15/2015	18:12
0915F011.D	ZZZZZZ	ZZZZZZ	9/15/2015	18:36		9/15/2015	18:36
0915F012.D	ZZZZZZ	ZZZZZZ	9/15/2015	18:59		9/15/2015	18:59
0915F013.D	ZZZZZZ	ZZZZZZ	9/15/2015	19:23		9/15/2015	19:23
0915F014.D	ZZZZZZ	ZZZZZZ	9/15/2015	19:46		9/15/2015	19:46
0915F015.D	ZZZZZZ	ZZZZZZ	9/15/2015	20:10		9/15/2015	20:10
0915F016.D	ZZZZZZ	ZZZZZZ	9/15/2015	20:33		9/15/2015	20:33
0915F017.D	ZZZZZZ	ZZZZZZ	9/15/2015	20:57		9/15/2015	20:57
0915F018.D	ZZZZZZ	ZZZZZZ	9/15/2015	21:20		9/15/2015	21:20
0915F019.D	ZZZZZZ	ZZZZZZ	9/15/2015	21:44		9/15/2015	21:44
0915F020.D	ZZZZZZ	ZZZZZZ	9/15/2015	22:07		9/15/2015	22:07
0915F021.D	Continuing Calibration Verification	KWG1509033-5	9/15/2015	22:31		9/15/2015	22:31
0915F022.D	Instrument Blank	KWG1509033-6	9/15/2015	22:54		9/15/2015	22:54
0915F023.D	ZZZZZZ	ZZZZZZ	9/15/2015	23:18		9/15/2015	23:18
0915F024.D	ZZZZZZ	ZZZZZZ	9/15/2015	23:41		9/15/2015	23:41
0915F025.D	ZZZZZZ	ZZZZZZ	9/16/2015	00:05		9/16/2015	00:05
0915F026.D	ZZZZZZ	ZZZZZZ	9/16/2015	00:28		9/16/2015	00:28
0915F027.D	ZZZZZZ	ZZZZZZ	9/16/2015	00:52		9/16/2015	00:52
0915F028.D	Continuing Calibration Verification	KWG1509033-7	9/16/2015	01:15		9/16/2015	01:15
0915F029.D	Instrument Blank	KWG1509033-8	9/16/2015	01:39		9/16/2015	01:39
0915F030.D	ZZZZZZ	ZZZZZZ	9/16/2015	02:02		9/16/2015	02:02
0915F031.D	Continuing Calibration Verification	KWG1509033-9	9/16/2015	02:26		9/16/2015	02:26
0915F032.D	Instrument Blank	KWG1509033-10	9/16/2015	02:49		9/16/2015	02:49

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM C1144 640
Sample Matrix: Soil

Service Request: K1509667
Date Extracted: 09/09/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1508618
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
NAPE - 3	K1509667-001	09/01/15	09/02/15	40.080g	4ml	93.2	
NAPE - 2	K1509667-002	09/01/15	09/02/15	40.053g	4ml	86.9	
Method Blank	KWG1508618-4	NA	NA	40.324g	4ml	NA	
Batch QC	K1509528-006	NA	NA	30.0244g	4ml	99.1	
Batch QCMS	KWG1508618-1	NA	NA	30.0686g	4ml	99.1	
Batch QCDMS	KWG1508618-2	NA	NA	30.1926g	4ml	99.1	
Lab Control Sample	KWG1508618-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/01/2015
Sample Matrix:	Soil	**Date Received:**	09/02/2015
		Date Extracted:	09/09/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	NAPE - 3	**Units:**	ug/Kg
Lab Code:	K1509667-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	54	21	380	410	7.6	D	10	09/15/15
Aroclor 1254	54	21	440	450	2.2	D	10	09/15/15
Aroclor 1260	54	21	64	79	21.0	D	10	09/15/15

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1509667
Project:	Evraz Riverbank SCM C1144 640	**Date Collected:**	09/01/2015
Sample Matrix:	Soil	**Date Received:**	09/02/2015
		Date Extracted:	09/09/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	NAPE - 2	**Units:**	ug/Kg
Lab Code:	K1509667-002	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	5.8	2.1	50	74	38.7		1	09/12/15
Aroclor 1254	5.8	2.1	75	78	3.9		1	09/12/15
Aroclor 1260	5.8	2.1	21	21	0.0		1	09/12/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1509443, KQ1509864, K1509667**	**Run #:**	**460787**
Test:	**TS**	**Balance ID:**	**K-Balance-21B**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1509443-002	1.29	12.72	12.12	10.8	85.1	
	K1509443-002DUP	1.29	11.56	11.14	9.85	85.2	<1
	K1509443-003	1.29	10.36	10.55	9.26	89.4	
	K1509667-001	1.29	14.76	15.05	13.8	93.2	
	K1509667-002	1.27	13.18	12.73	11.5	86.9	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	9/3/2015	11:21	9/4/2015	07:52	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	0.99 99.99	1.00 100.00	9/3/2015	11:05	9/3/2015	11:11
Calibration2	K-Balance-16	1.01 100.00	1.00 100.01	9/4/2015	08:24	9/4/2015	08:25

Comments: BK Approved 9-8-15 L.J.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F005.D
Lab ID: K1509667-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/15/2015 16:13
Date Quantitated: 09/21/2015 14:37
Batch ID: KWG1509033
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: AMR 09/22/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F005.D
Lab ID: K1509667-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/15/2015 16:13
Date Quantitated: 09/21/2015 14:38
Batch ID: KWG1509033
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Qual

Primary Review: mr 09/22/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D			**Vial:**	6
Acqu Date:	09/15/2015 16:13	**Quant Date:**	09/22/2015 12:16	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509667-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/01/2015	**Receive Date:**	09/02/2015

Analysis Lot:	KWG1509033	**Prep Lot:**	KWG1508618	**Report Group:**	K1509667
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465224	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 0.00	13.62 0.00	2183665	803203	13.81	9.75			138 OK
				%Recovery =	138 OK	98 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1221 {1}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1221 {2}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1221 {3}			0d	0	0.0000	0.0000	21U	21U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	21U	21U	

U. Undetected at or above MDL
J. Analyte detected above MDL, but below MRL
B. Hit above MRL also found in Method Blank
E. Analyte concentration above high point of ICAL
N. Presumptive evidence of compound

D. Result from dilution
m. Manual integration performed
d. Compound manually deleted
NR. Analyte not reported from this analysis

*. Result fails acceptance criteria
#. Acceptance criteria not applicable
?. Insufficient information to determine acceptance
e. Result >= MRL, but MRL less than low point of ICAL
c. check for co-elution

Data File #1:	J:\GC27\DATA\091515.B\0915F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D			**Vial:**	6
Acqu Date:	09/15/2015 16:13	**Quant Date:**	09/22/2015 12:16	**Dilution:**	10.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509667-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1248 {1}	4.94	4.95	1209028	83575	258.04	67.08	280D	72D	RPD
Aroclor 1248			0	0	380.05	355.36	410D	380D	380D
Aroclor 1248 {2}	5.29	5.52	1814356	223216	416.05	86.55	450D	93D	RPD
Aroclor 1248 {3}	5.68	5.92	2841088	1358190	442.19	456.69	470D	490D	
Aroclor 1248 {4}	5.88	6.35	1452207	1162950	295.75	484.77	320D	520D	
Aroclor 1248 {5}	6.29	7.05	2261029	2908988	488.25	681.73	520D	730D	
Aroclor 1254 {1}	6.25	6.71	1803284	1632846m	463.52	444.35	500D	480D	
Aroclor 1254			0	0	415.50	423.26	440D	450D	440D
Aroclor 1254 {2}	6.68	7.05	2968478	2915841m	409.02	503.32	440D	540D	
Aroclor 1254 {3}	6.84	7.16	5168624	939425m	353.18	484.96	380D	520D	
Aroclor 1254 {4}	7.18	8.01	3557609	525142m	371.92	231.80	400D	250D	
Aroclor 1254 {5}	7.78	8.77	3038280	1417896m	479.86	451.87	510D	480D	
Aroclor 1260 {1}	7.08 +0.00	7.83	0	180986	0.0000	82.05	21U	88D	
Aroclor 1260			0	0	59.96	73.91	64D	79D	64D
Aroclor 1260 {2}	8.09 0.00	9.27 +0.00	589442	218236	72.65	57.74	78D	62D	
Aroclor 1260 {3}	8.65	9.72	368824	136776	44.81	37.90	48JD	41JD	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.00	948026	826809	50.43	95.76	54D	100D	
Aroclor 1260 {5}	9.90 +0.00	11.02 0.00	1020602	536745	71.94	96.10	77D	100D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268			0	0	0.0000	0.0000	21U	21U	21U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	21U	21U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	21U	21U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.080 g	**Dilution:**	10.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	93.2 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F005.D
Report Date: 22-Sep-2015 12:16

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D
Inj Date : 15-SEP-2015 16:13
Sample Info: K1509667-001 10X
Misc Info :
Cal Date : 16-SEP-2015 08:57
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	1693422	665251	9.57	8.46		100.00
Aroclor 1248	4.937	4.953	1209028	83575	258	67.1	80.00- 120.00	100.00(H)
	5.293	5.517	1814356	223216	416	86.6	17.18- 25.77	150.07(H)
	5.680	5.923	2841088	1358190	442	457	19.47- 29.21	234.99(H)
	5.877	6.353	1452207	1162950	296	485	3.05- 4.58	120.11(H)
	6.287	7.053	2261029	2908988	488	682	0.69- 1.04	187.01(H)
		Average of Peak Amounts =			380	356		
Aroclor 1254	6.250	6.710	1803284	1632846	464	444	80.00- 120.00	100.00(H)
	6.683	7.053	2968478	2915841	409	503	1017.66-1526.49	164.62(H)
	6.837	7.157	5168624	939425	353	485	9646.23-14469.35	286.62(H)
	7.177	8.013	3557609	525142	372	232	1126.72-1690.08	197.29(H)
	7.783	8.767	3038280	1417896	480	452	281.12- 421.67	168.49(H)
		Average of Peak Amounts =			416	423		
Aroclor 1260	7.080	7.830		180986		82.0	80.00- 120.00	100.00(H)
	8.093	9.270	589442	218236	72.6	57.7	70.17- 105.25	42.70(H)
	8.647	9.717	368824	136776	44.8	37.9	72.11- 108.17	26.72(H)
	9.113	10.397	948026	826809	50.4	95.8	164.70- 247.05	68.67(H)
	9.897	11.023	1020602	536745	71.9	96.1	128.09- 192.14	73.93(H)
		Average of Peak Amounts =			59.9	73.9		
Decachlorobiphenyl	12.263	13.623	2183665	803203	13.8	9.75		100.00
Aroclors, Total	0.000	0.000	5954520	3013524	856	853		0.00

QC Flag Legend

H - Operator selected an alternate compound hit.

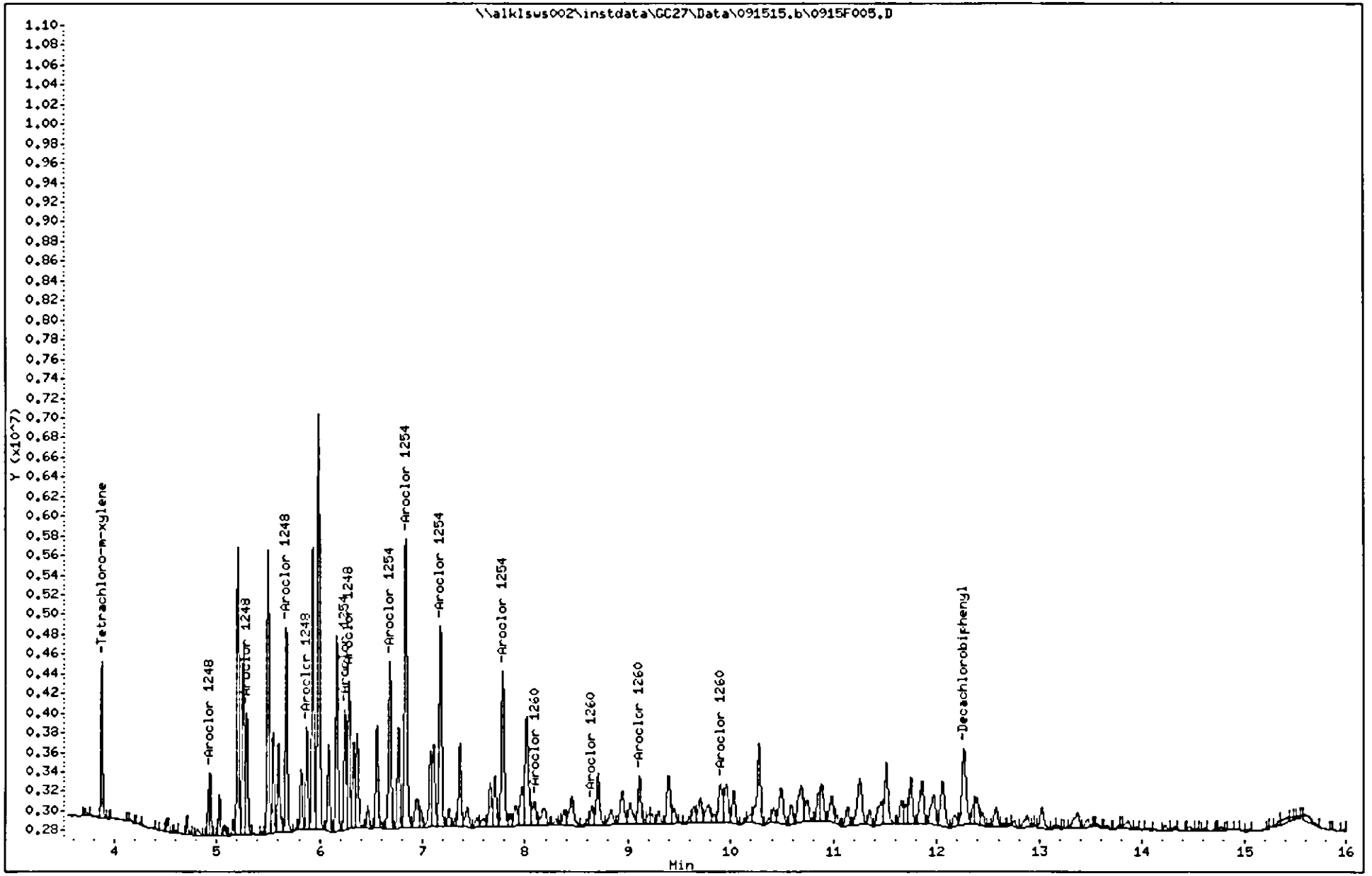
Data File: \\alklsus002\instdata\GC27\Data\091515.b\0915F005.D
Date : 15-SEP-2015 16:13
Client ID:
Sample Info: K1509667-001 10X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



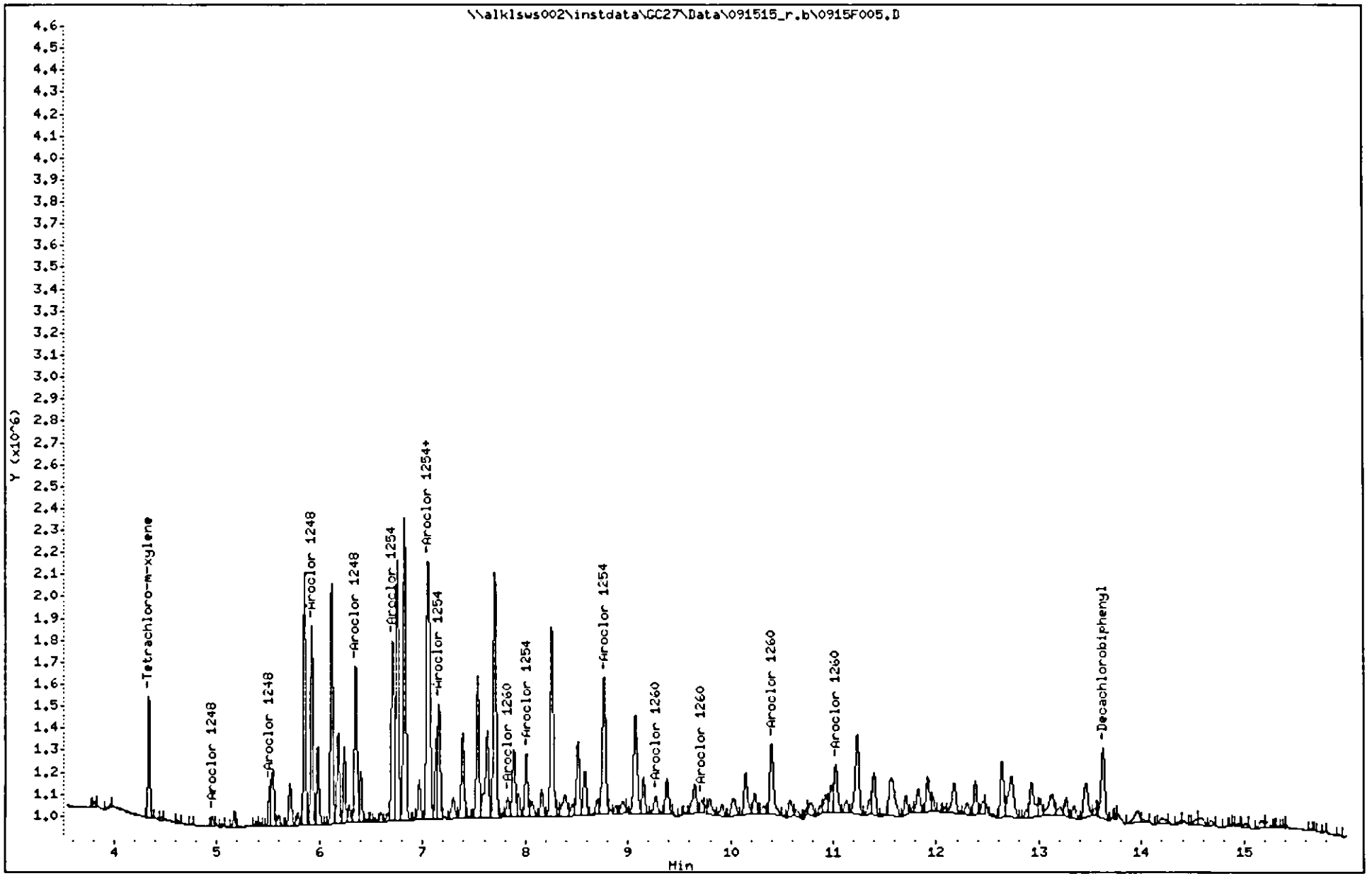
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D
Date : 15-SEP-2015 16:13
Client ID:
Sample Info: K1509667-001 10X

Instrument: GC27.i

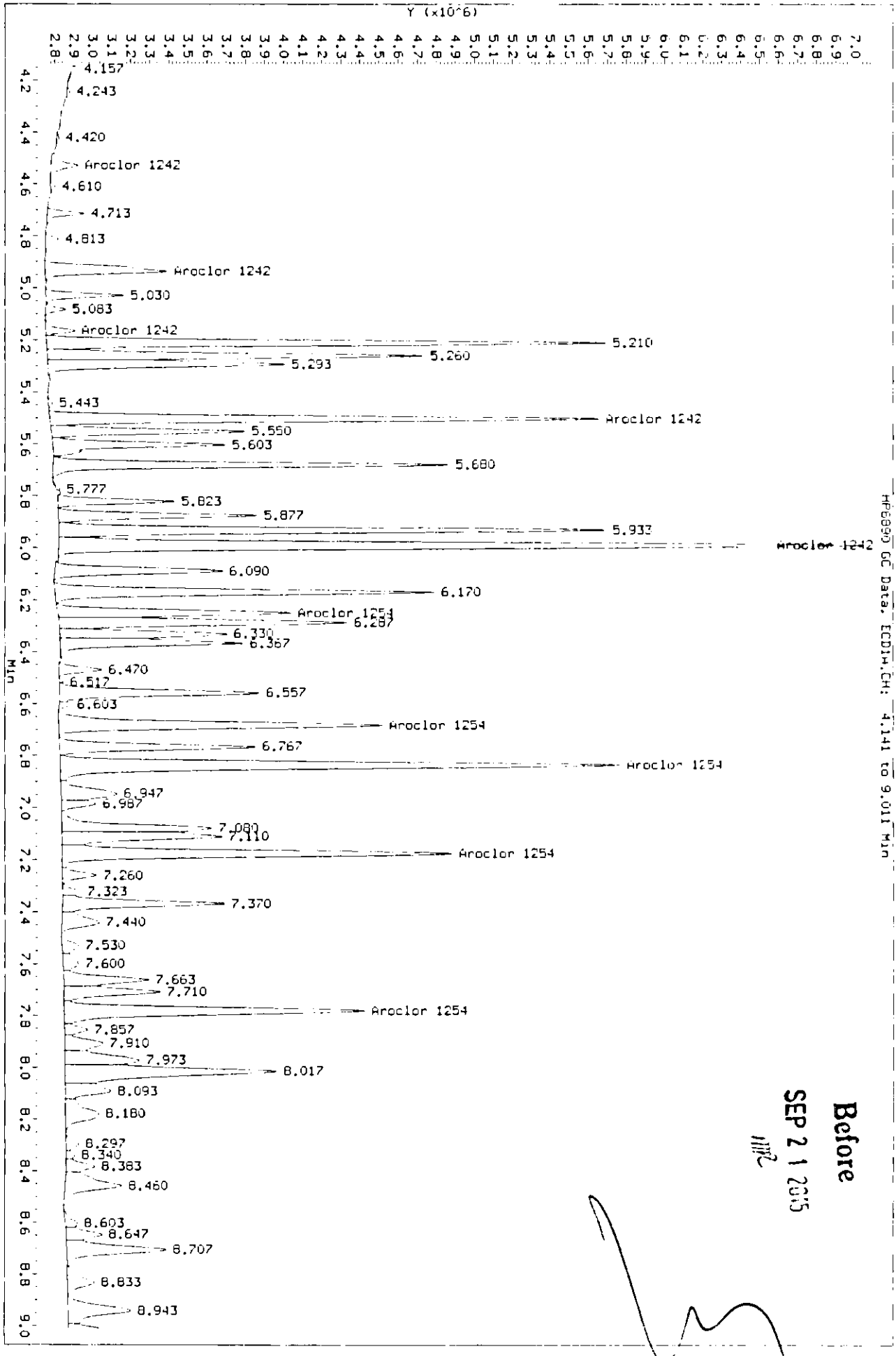
Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



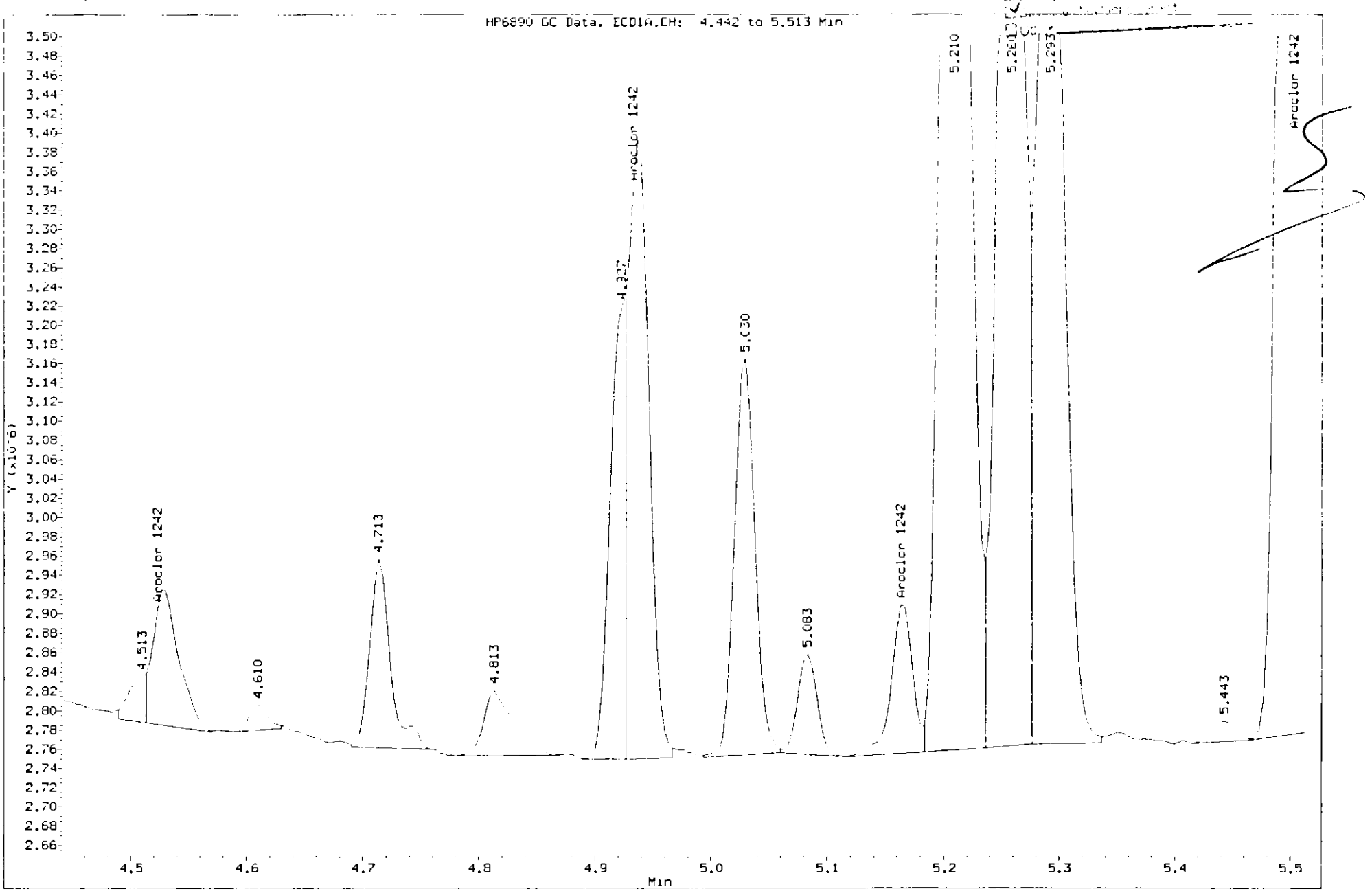
Data File: \\alklsws002\instdata\GC27\Data\091515.B\091515F005.D
Injection Date: 15-SEP-2015 16:13
Instrument: GC27.1
Client Sample ID:



Before
SEP 21 2015

After
Initials

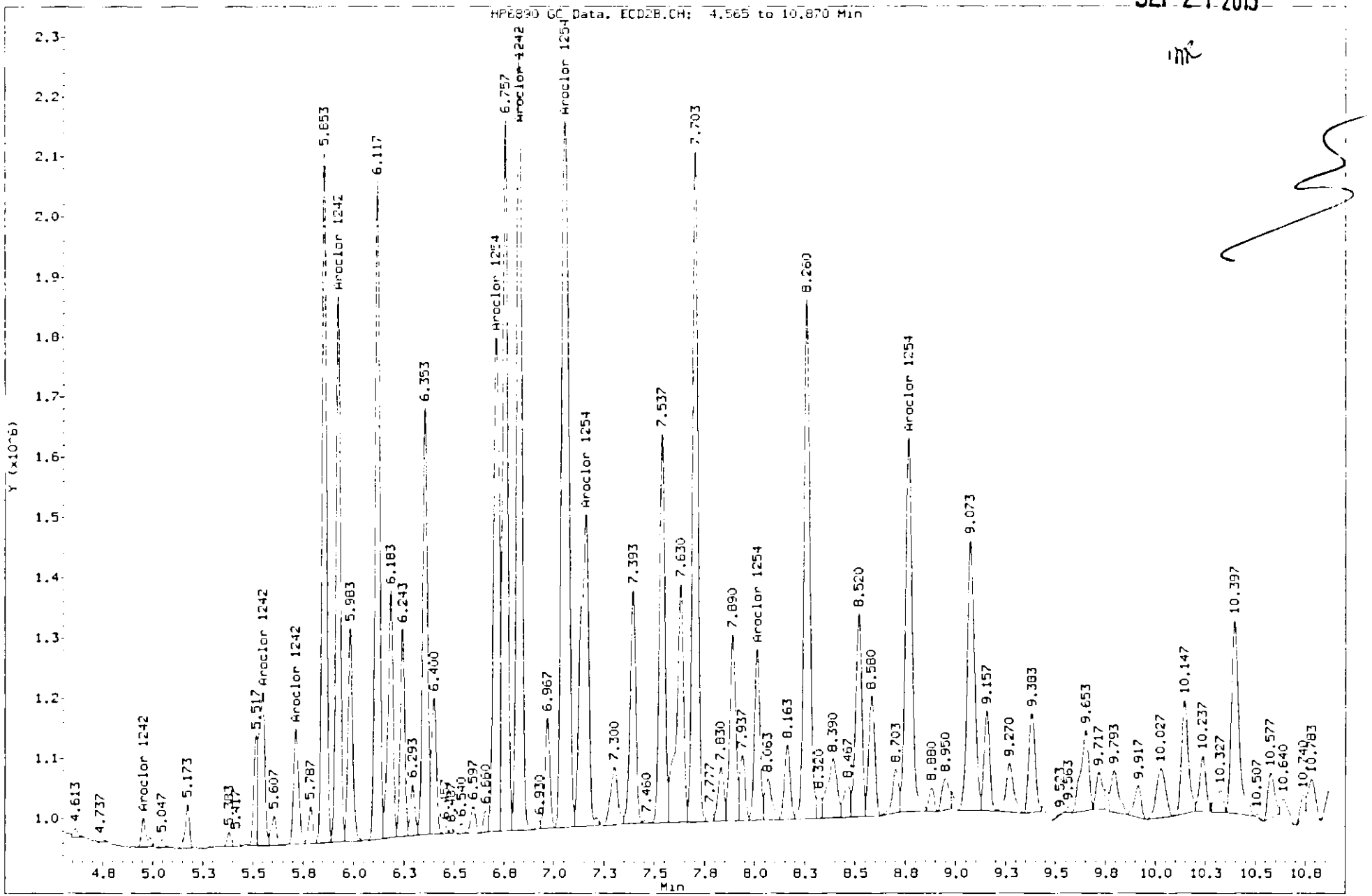
Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F005.D
Injection Date: 15-SEP-2015 16:13
Instrument: GC27.1
Client Sample ID:



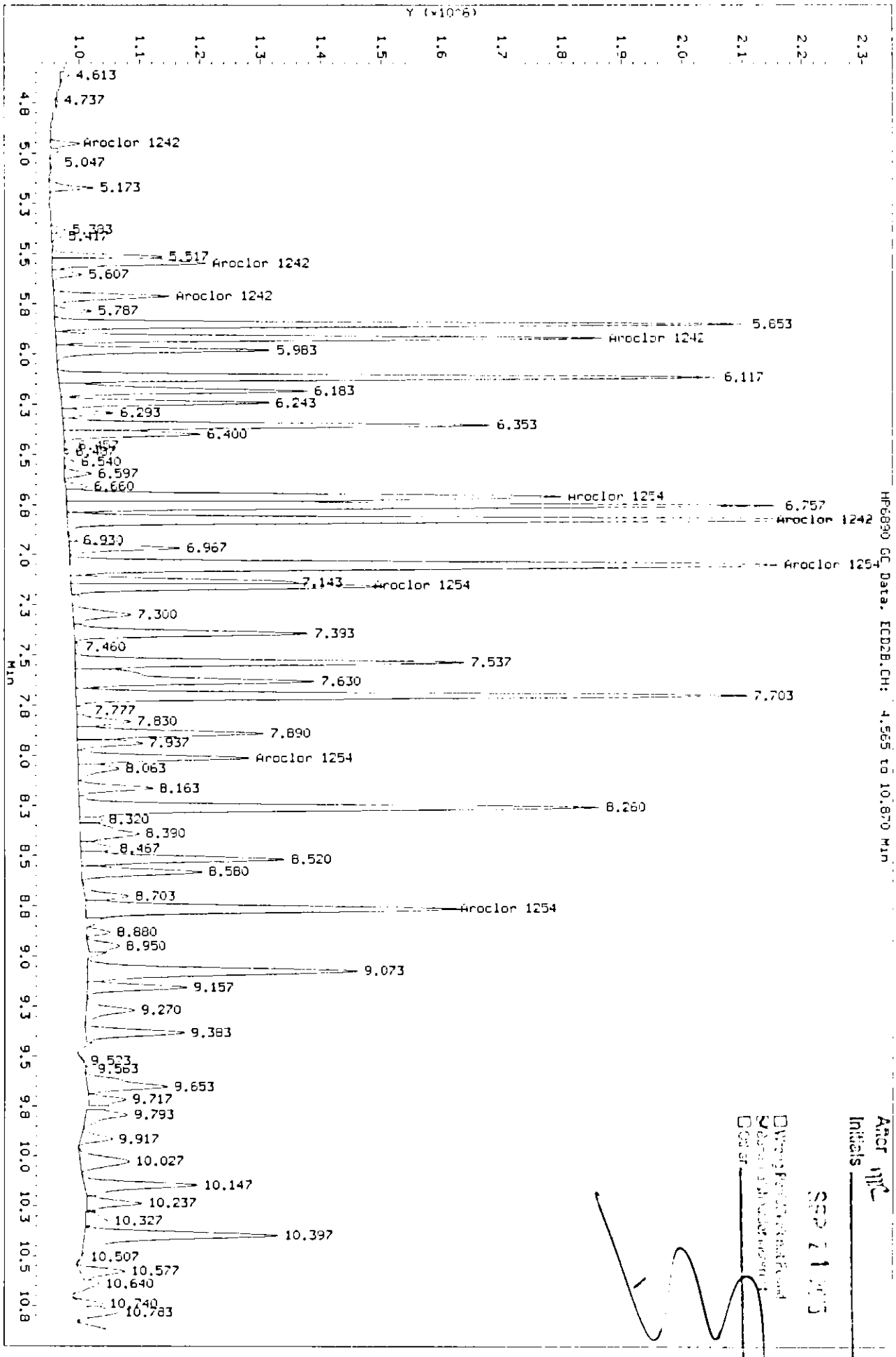
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D
Injection Date: 15-SEP-2015 16:13
Instrument: GC27.i
Client Sample ID:

Before

SEP 21 2015



Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F005.D
Injection Date: 15-SEP-2015 16:13
Instrument: GC27.1
Client Sample ID:



Arcr
Initials

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F019.D
Lab ID: K1509667-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/12/2015 00:00
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/15/15

Secondary Review: [signature]

Printed: 09/15/2015 08:56:51
u:\Stealth Crystal.rpt except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F019.D
Lab ID: K1509667-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/12/2015 00:00
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TCV ok
	Aroclor 1260	22.7	NA	20	TCV Dual

Primary Review: MR 09/15/15

Secondary Review:

Printed: 09/15/2015 08:56:55
u Stealth Crystal.rpt except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F019.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D			**Vial:**	15
Acqu Date:	09/12/2015 00:00	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509667-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/01/2015	**Receive Date:**	09/02/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509667
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465225	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 -0.01	13.62 0.00	13522209	6157836	85.51	74.78			86 OK
				%Recovery =	86 OK	75 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F019.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D			**Vial:**	15
Acqu Date:	09/12/2015 00:00	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509667-002				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}	4.93	4.95	1557147m	206099m	332.34	165.41	38	19	
Aroclor 1248			0	0	644.42	431.65	74	50	50
Aroclor 1248 {2}	5.29	5.51	3231125m	373391m	740.94	144.78	85	17	RPD
Aroclor 1248 {3}	5.68	5.92	5046231m	2127647m	785.39	715.43	90	82	
Aroclor 1248 {4}	5.87	6.35	2645046m	1681762m	538.67	701.03	62	81	
Aroclor 1248 {5}	6.28	7.05	3819428m	0m	824.77	0.0000	95	2.1U	
Aroclor 1254 {1}	6.25	6.71	3327877	2571907m	855.40	699.80	98	80	
Aroclor 1254			0	0	676.17	654.80	78	75	75
Aroclor 1254 {2}	6.68	7.05	4642537	0m	639.68	0.0000	74	2.1U	
Aroclor 1254 {3}	6.83	7.16	8578562	1641368m	586.18	847.32	67	97	
Aroclor 1254 {4}	7.17	8.01	5269603	875813m	550.89	386.53	63	44	
Aroclor 1254 {5}	7.78	8.76	4740519	2151770m	748.70	685.74	86	79	
Aroclor 1260 {1}	7.08 +0.00	7.83 0.00	2765741	315555m	280.77	143.05	32	16	
Aroclor 1260			0	0	179.81	183.54	21	21	21
Aroclor 1260 {2}	8.09 0.00	9.27 0.00	1758469	636236m	216.72	168.32	25	19	
Aroclor 1260 {3}	8.64 0.00	9.72 0.00	936447	281673m	113.77	78.05	13	9.0	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	2303139	2100064m	122.52	243.22	14	28	
Aroclor 1260 {5}	9.90 +0.00	11.02 +0.01	2344528	1592084m	165.26	285.05	19	33	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The - + after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.053 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	86.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result > MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F019.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D
Inj Date : 12-SEP-2015 00:00
Sample Info: K1509667-002
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	15203984	5640977	85.9	71.7		100.00
Aroclor 1248	4.934	4.954	1557147	206099	332	165	60.00- 120.00	100.00(MH)
	5.290	5.514	3231125	373391	741	145	17.18- 25.77	207.50(MH)
	5.677	5.921	5046231	2127647	785	715	19.47- 29.21	324.07(MH)
	5.874	6.354	2645046	1681762	539	701	3.05- 4.58	169.86(MH)
	6.284	7.051	3819428		825		0.69- 1.04	245.28(MH)
		Average of Peak Amounts =			644	432		
Aroclor 1254	6.247	6.711	3327877	2571907	855	700	60.00- 120.00	100.00(H)
	6.680	7.051	4642537		640		1017.66-1526.49	139.50(H)
	6.834	7.157	8578562	1641368	586	847	9645.23-14469.35	257.78(H)
	7.174	8.011	5269603	875813	551	387	1125.72-1690.08	158.35(H)
	7.780	8.764	4740519	2151770	749	686	281.12- 421.67	142.45(H)
		Average of Peak Amounts =			676	655		
Aroclor 1260	7.077	7.831	2765741	315555	281	143	60.00- 120.00	100.00(H)
	8.090	9.267	1758469	636236	227	168	71.27- 106.90	63.58(H)
	8.644	9.717	936447	281673	114	78.1	72.68- 109.02	33.86(H)
	9.110	10.401	2303139	2100064	123	243	169.11- 253.66	83.27(H)
	9.900	11.021	2344528	1592084	165	285	131.16- 196.75	84.77(H)
		Average of Peak Amounts =			180	183		
Decachlorobiphenyl	12.260	13.621	13522209	6157836	85.5	74.8		100.00
Aroclors, Total	0.000	0.000	10593279	3892561	1500	1270		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

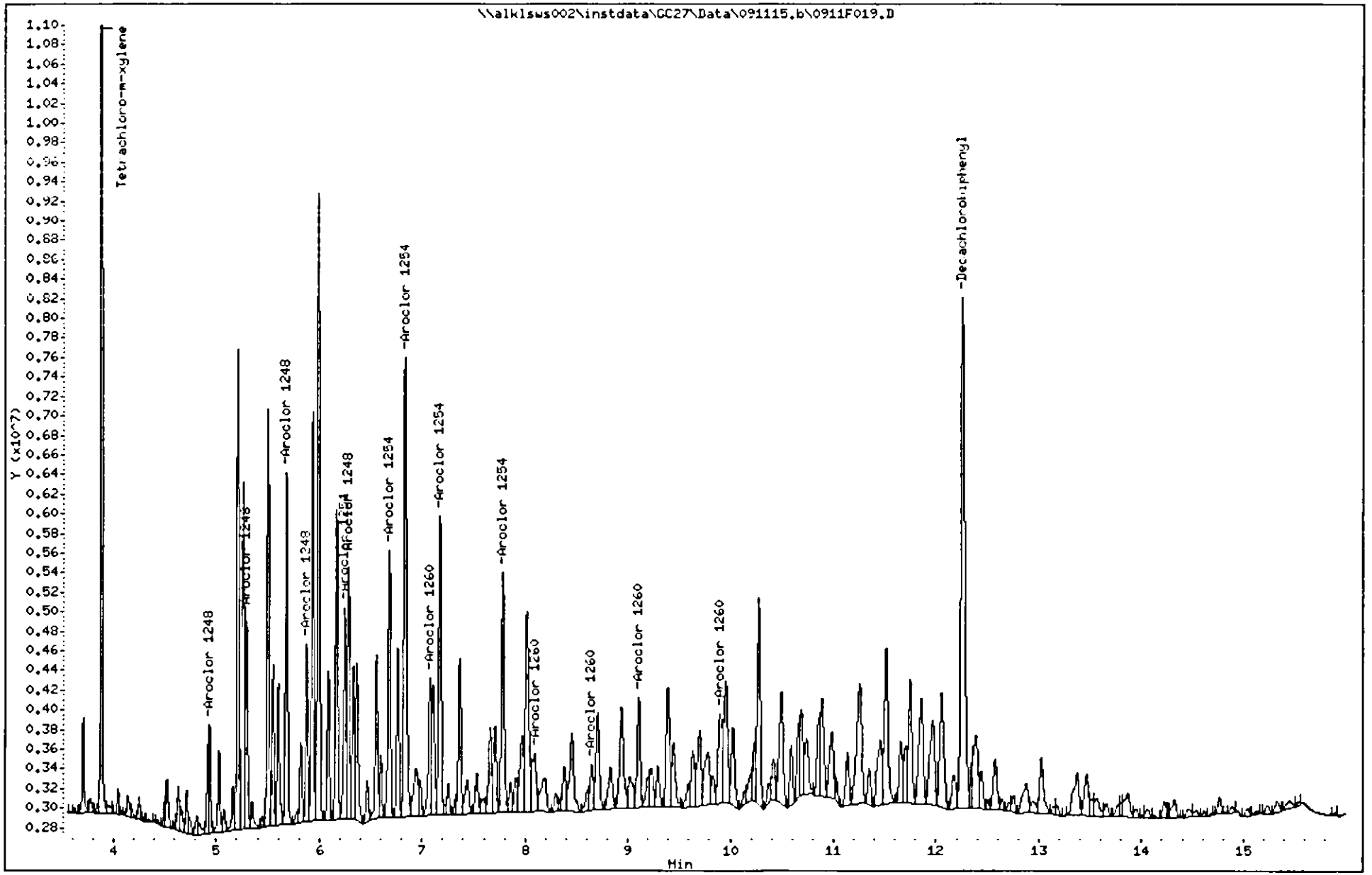
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F019.D
Date : 12-SEP-2015 00:00
Client ID:
Sample Info: K1509667-002

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

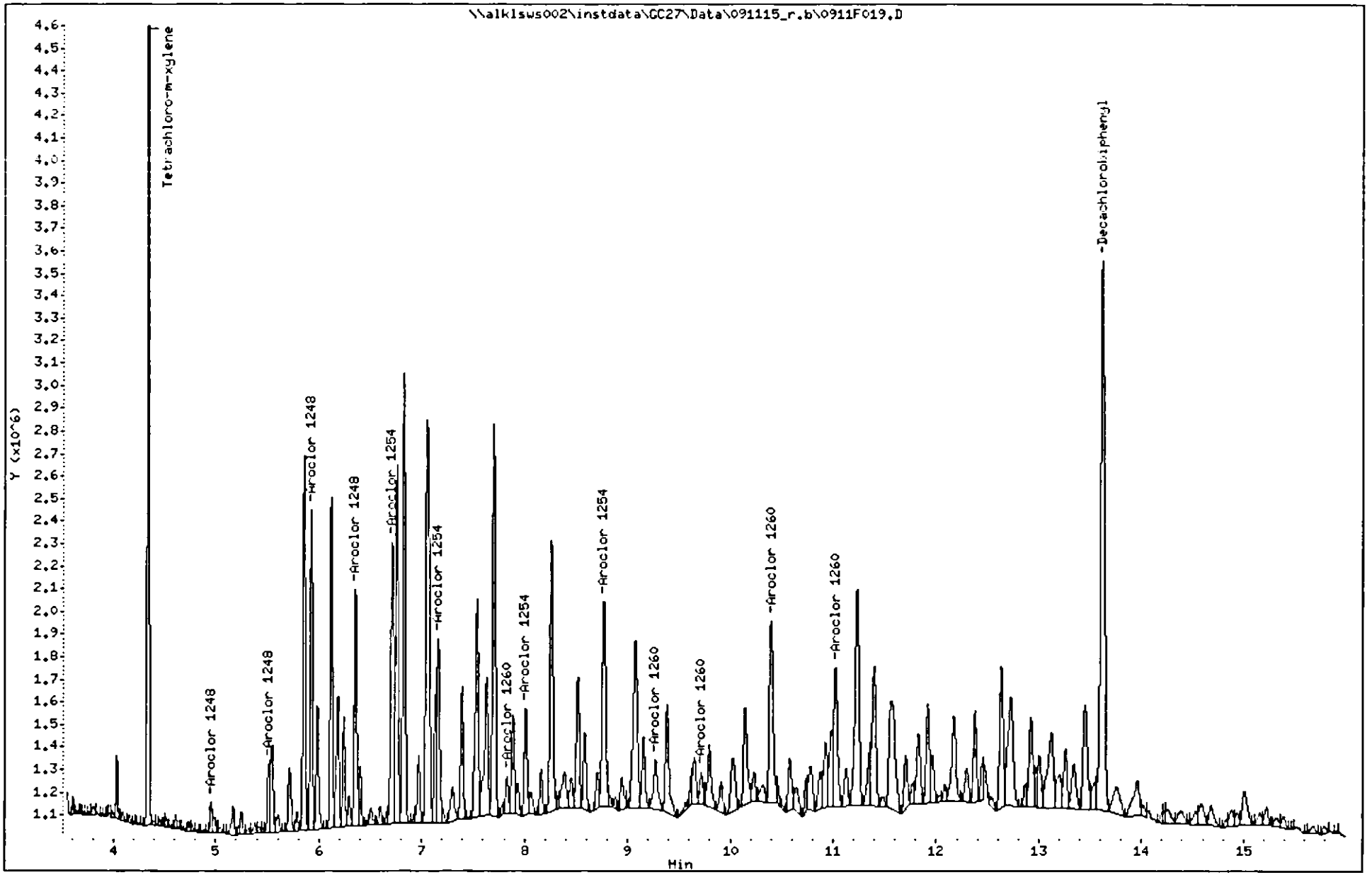


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D
Date : 12-SEP-2015 00:00
Client ID:
Sample Info: K1509667-002

Column phase: DB-XLB

Instrument: GC27.i

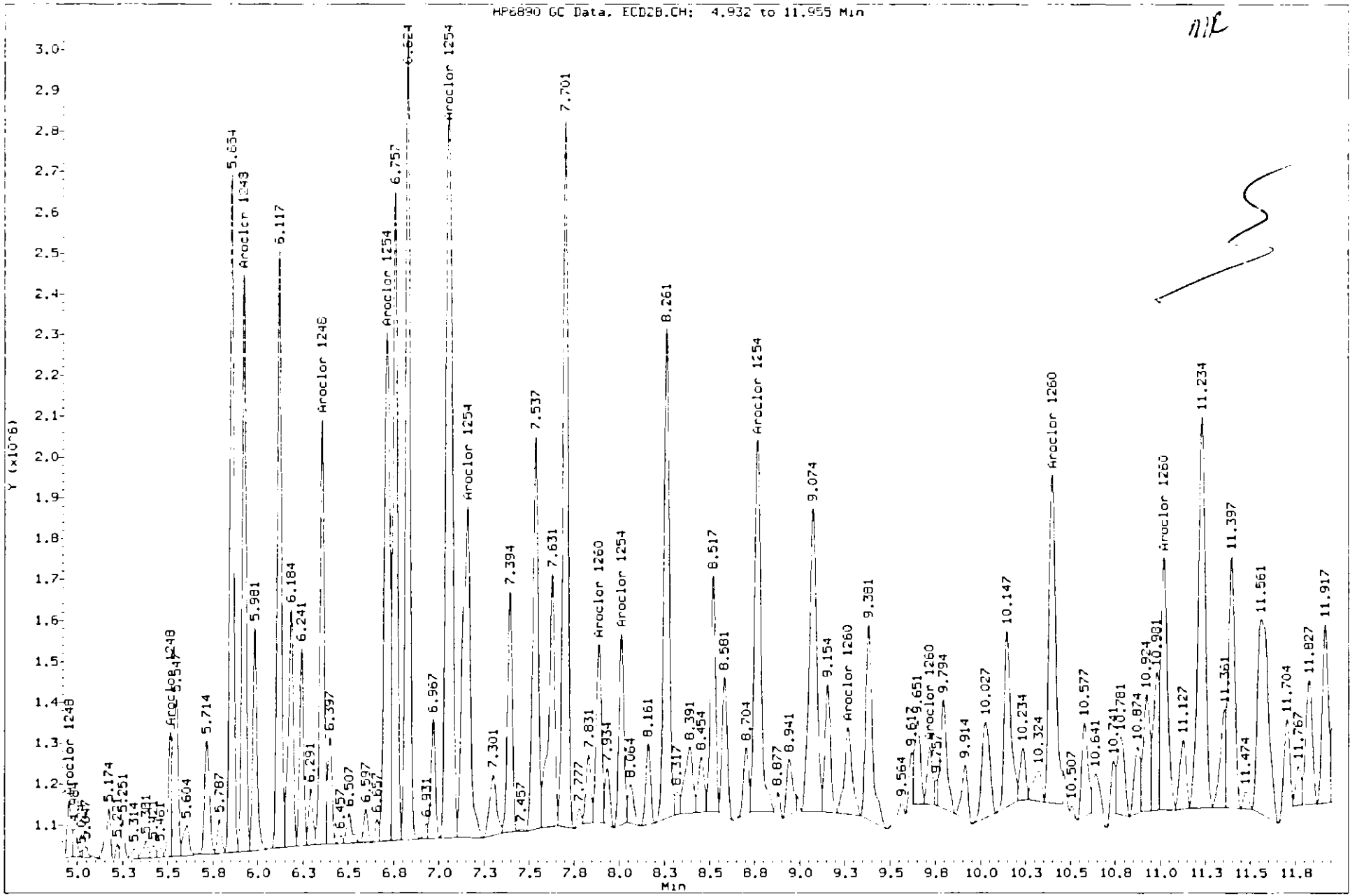
Operator: SHURRAY
Column diameter: 0.32



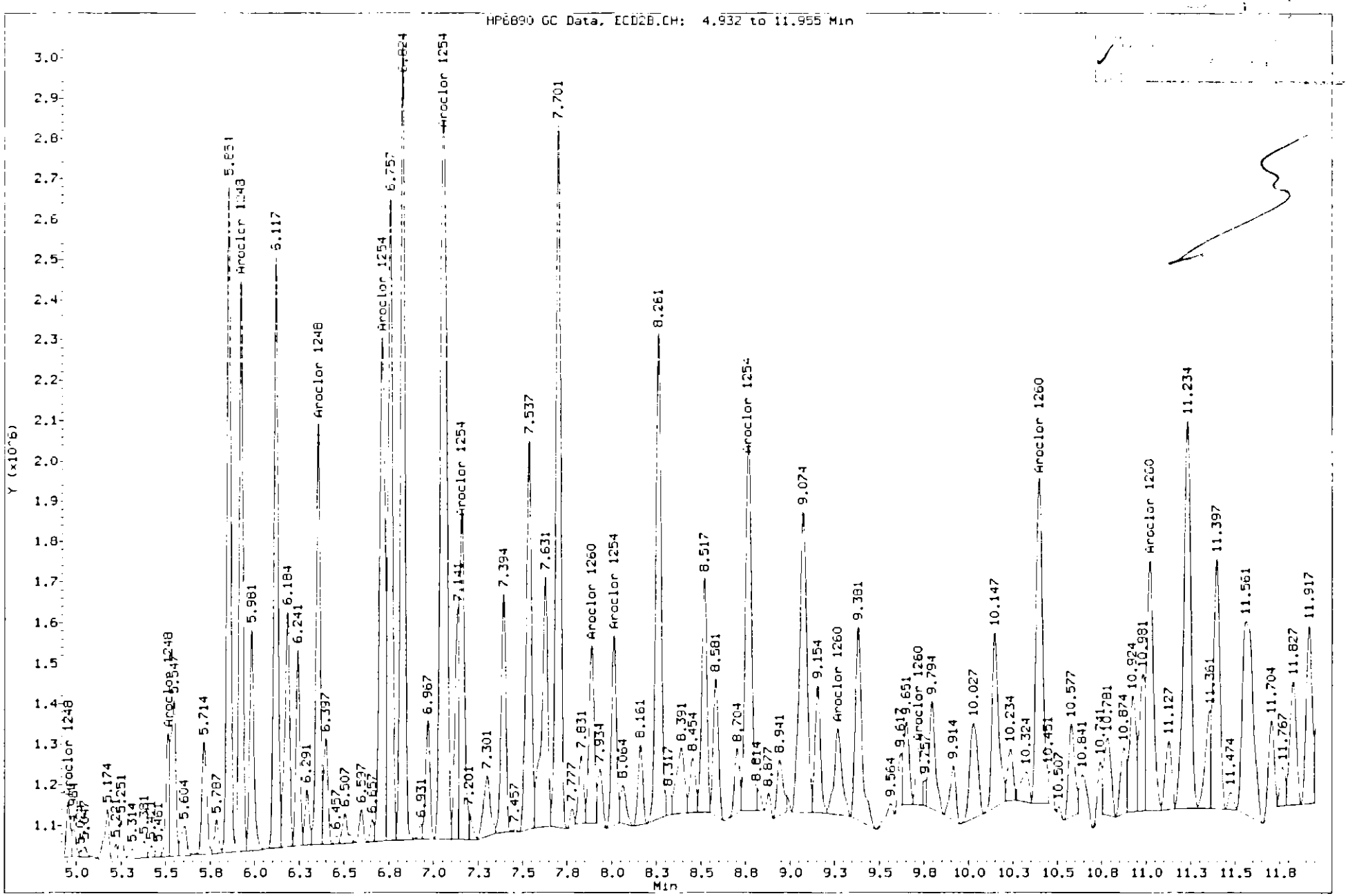
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D
Injection Date: 12-SEP-2015 00:00
Instrument: GC27.1
Client Sample ID:

Before

SEP 15 2015



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F019.D
Injection Date: 12-SEP-2015 00:00
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JQ &
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	DR

Primary Review: mc 09/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F022.D
Lab ID: KWG1508618-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/12/2015 01:09
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV ok
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: hmr 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465237	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	16808308	6398347	94.95CCV	81.35			81 OK
				%Recovery =	95 OK	81 OK	Limits =	44-130	
Decachlorobiphenyl	12.26 -0.01	13.62 0.00	14638591	7323472	92.57	88.93			93 OK
				%Recovery =	93 OK	89 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
k Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D			**Vial:**	18
Acqu Date:	09/12/2015 01:09	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.324 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

*. Result fails acceptance criteria
Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Inj Date : 12-SEP-2015 01:09
Sample Info: KWG1508618-MB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16808308	6398347	94.9	81.3		100.00
Decachlorobiphenyl	12.258	13.621	14638591	7323472	92.6	88.5		100.00

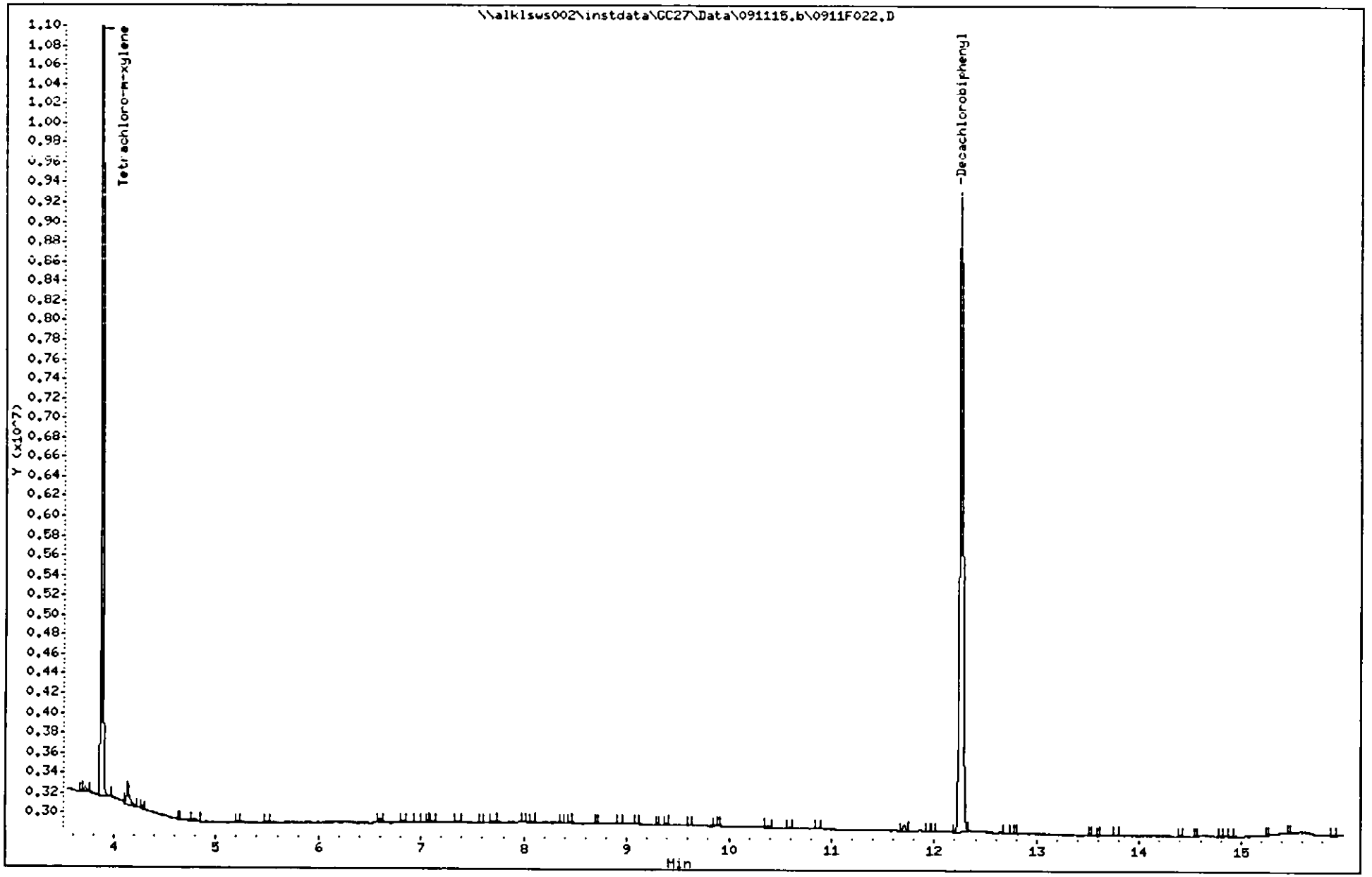
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-MB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



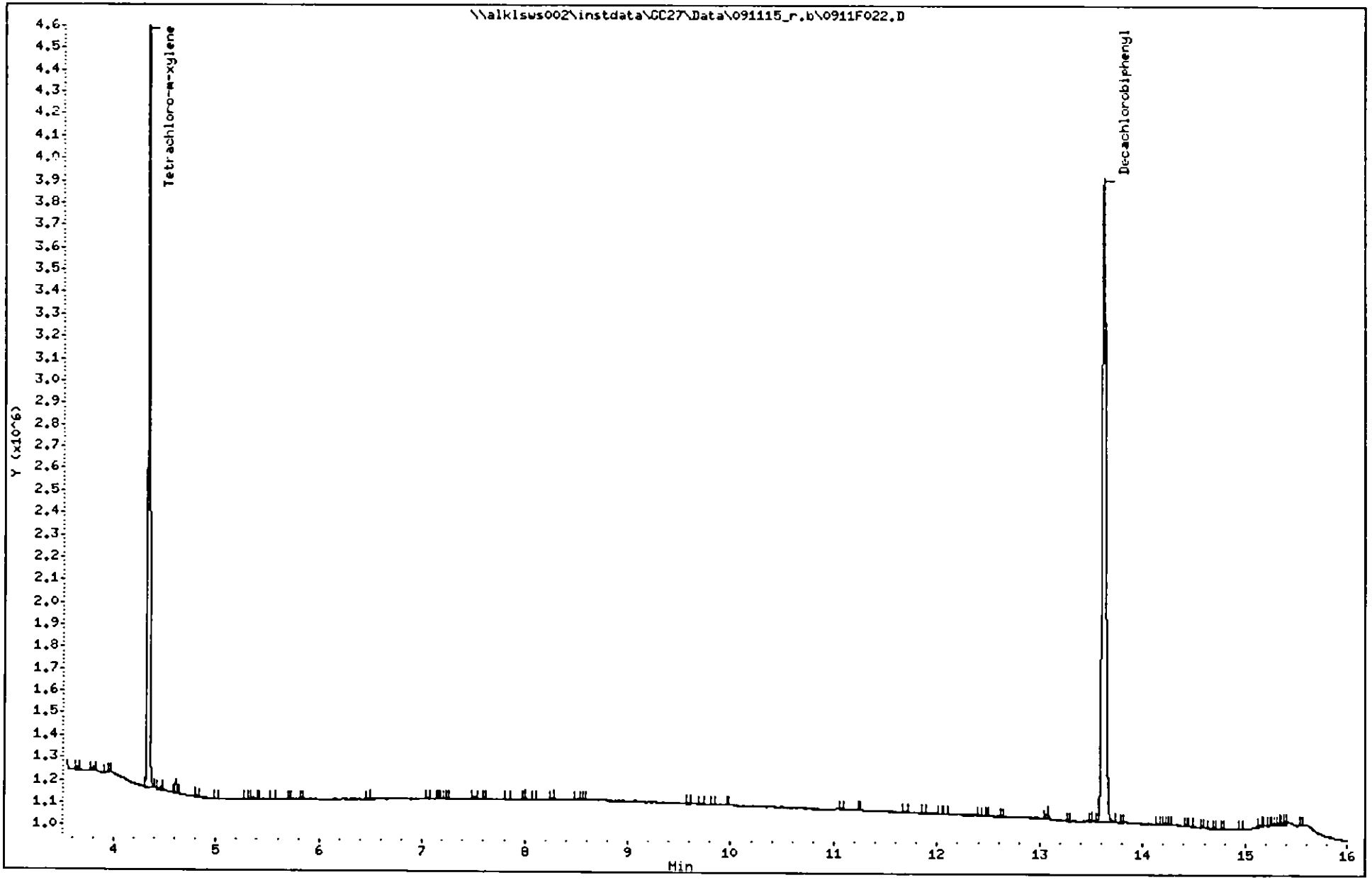
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F022.D
Date : 12-SEP-2015 01:09
Client ID:
Sample Info: KWG1508618-MB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV ok

Primary Review: MR 09/15/15

Secondary Review: [signature]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F012.D
Lab ID: K1509528-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/11/2015 21:17
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
ListJoinID: LJ17278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/25/2015	**Receive Date:**	08/29/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	K1509528
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465233	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ17278
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Decachlorobiphenyl	12.26 +0.00	13.63 +0.01	13056662	6393434	82.57	77.64			83	OK
			%Recovery =		83 OK	78 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D			**Vial:**	10
Acqu Date:	09/11/2015 21:17	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509528-006				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {1}	6.25	6.71	1714211m	835526m	440.62	227.37	59	31	
Aroclor 1254			0	0	400.85	424.14	54	57	54
Aroclor 1254 {2}	6.68	7.05	2107145m	2511814m	290.34	433.58	39	58	
Aroclor 1254 {3}	6.84	7.16	6123071m	728958m	418.40	376.31	56	51	
Aroclor 1254 {4}	7.18	8.01	3627229m	1403548m	379.20	619.53	51	83	
Aroclor 1254 {5}	7.78	8.77	3011936m	1455759m	475.69	463.93	64	62	
Aroclor 1260 {1}	7.08 0.00	7.83 +0.00	4138346m	667508m	420.11	302.60	56	41	
Aroclor 1260			0	0	299.69	286.46	40	39	39
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	1944594m	866979m	239.66	229.37	32	31	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	1920020m	1118923m	233.27	310.05	31	42	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	5061893m	2281621m	269.27	264.25	36	36	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	4768801m	1821113m	336.15	326.05	45	44	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0244 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U. Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

*. Result fails acceptance criteria
Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Inj Date : 11-SEP-2015 21:17
Sample Info: K1509528-006
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	14973224	5563928	84.6	70.7		100.00
Aroclor 1254	6.250	6.710	1714211	835526	441	227	60.00- 120.00	100.00(MH)
	6.683	7.053	2107145	2511814	290	434	1017.66-1526.49	122.92(MH)
	6.837	7.163	6123071	728958	418	376	9646.23-14469.35	357.19(MH)
	7.177	8.013	3627229	1403548	379	620	1126.72-1690.08	211.60(MH)
	7.783	8.767	3011936	1455759	476	464	281.12- 421.67	175.70(MH)
		Average of Peak Amounts =			401	424		
Aroclor 1260	7.077	7.833	4138346	667508	420	303	60.00- 120.00	100.00(MH)
	8.097	9.270	1944594	866979	240	229	71.27- 106.90	46.99(MH)
	8.647	9.723	1920020	1118923	233	310	72.68- 109.02	46.40(MH)
	9.110	10.397	5061893	2281621	269	264	169.11- 253.66	122.32(MH)
	9.897	11.033	4768801	1821113	336	326	131.16- 196.75	115.23(MH)
		Average of Peak Amounts =			300	286		
Decachlorobiphenyl	12.263	13.627	13056662	6393434	82.6	77.6		100.00
Aroclors, Total	0.000	0.000	6883449	2738349	701	711		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

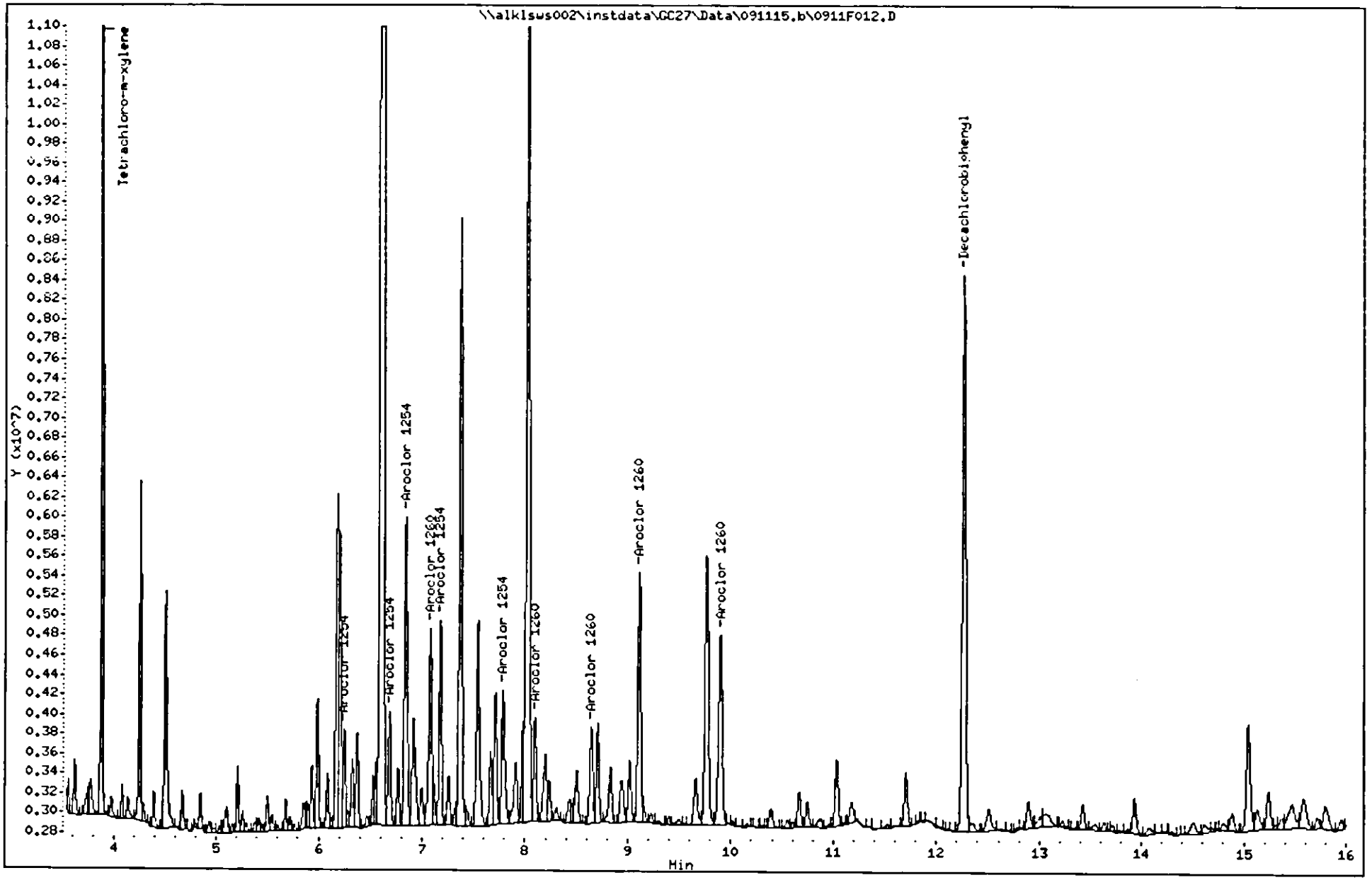
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



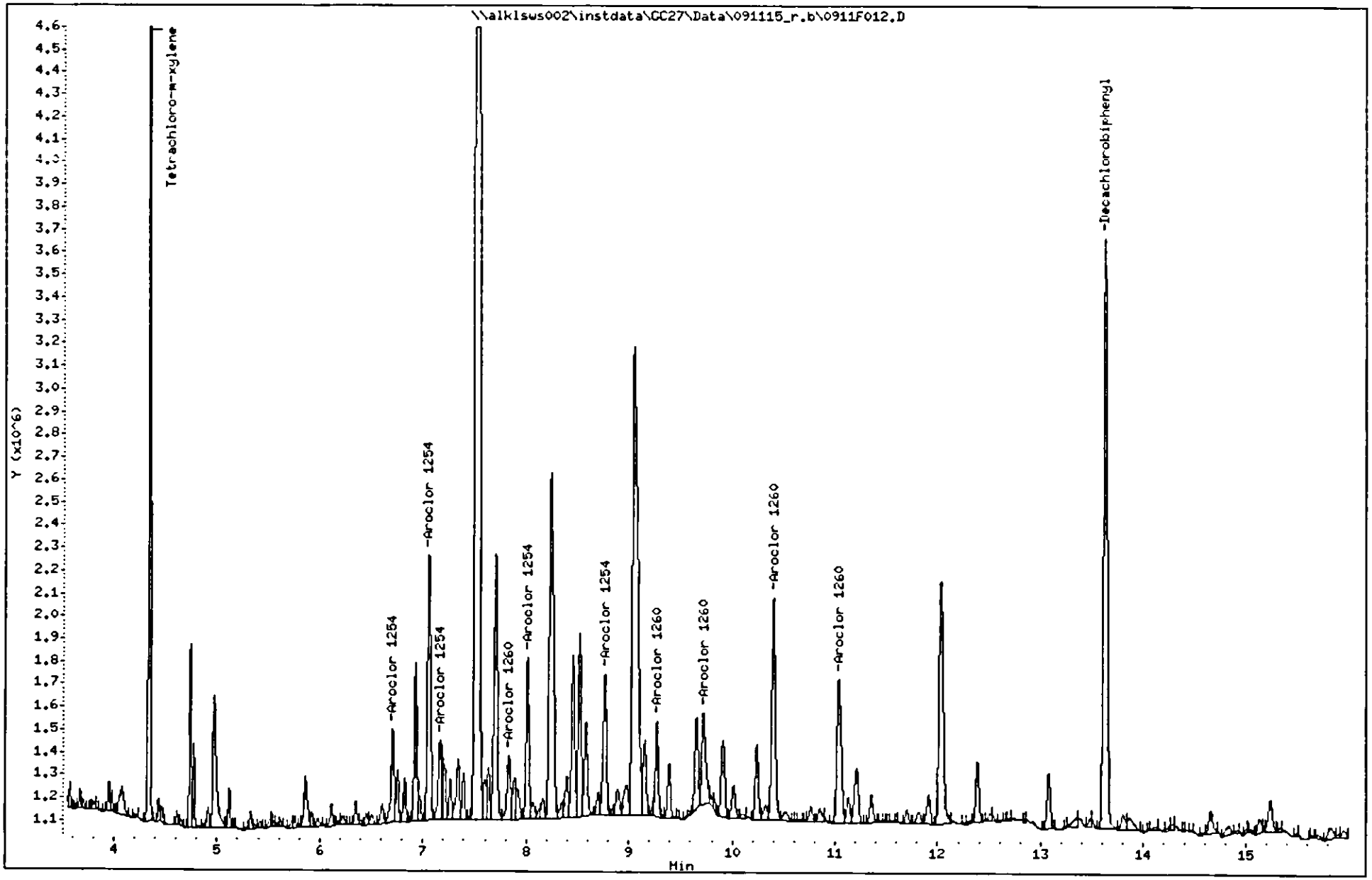
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Date : 11-SEP-2015 21:17
Client ID:
Sample Info: K1509528-006

Instrument: GC27.i

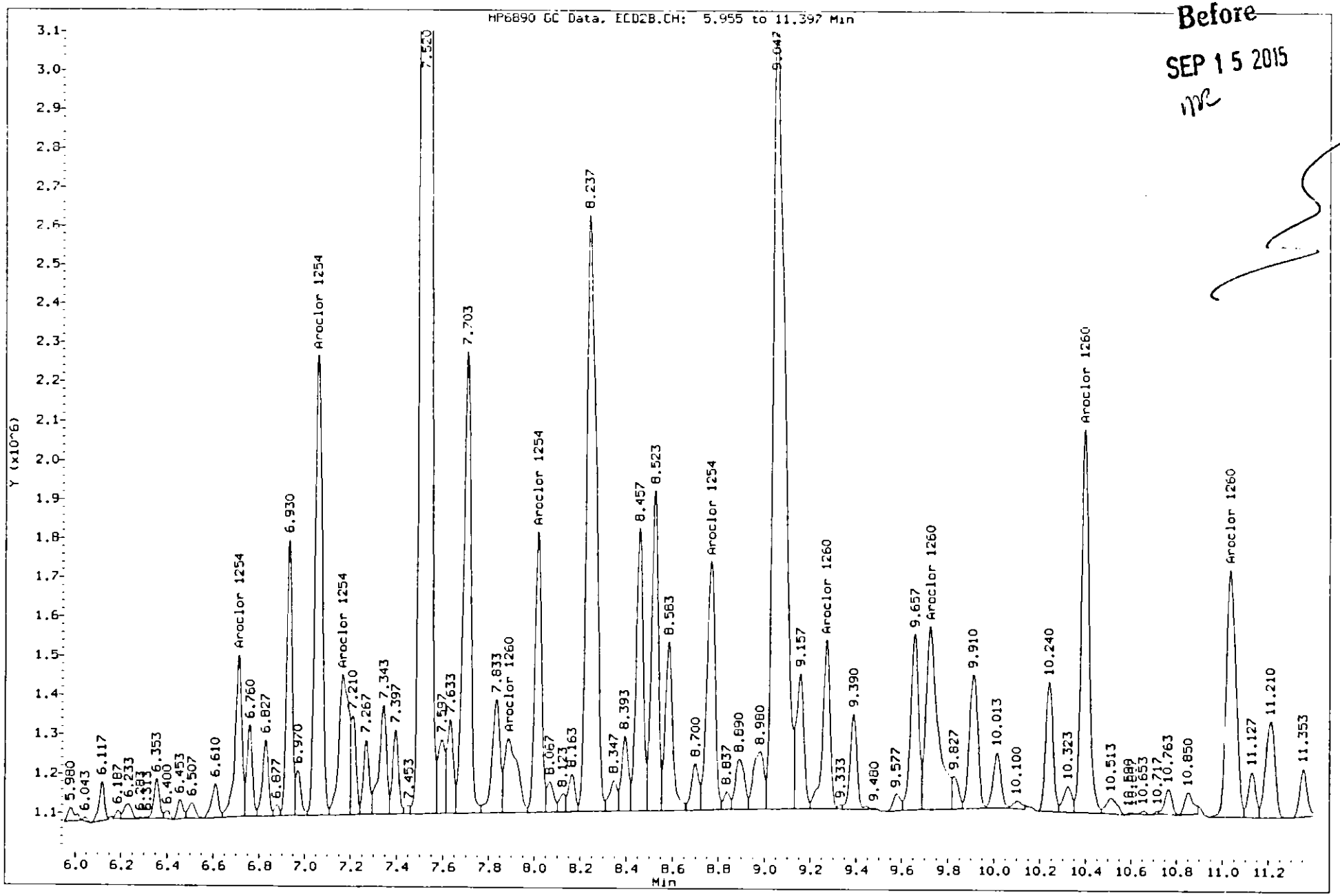
Operator: SHURRAY

Column phase: DB-XLB

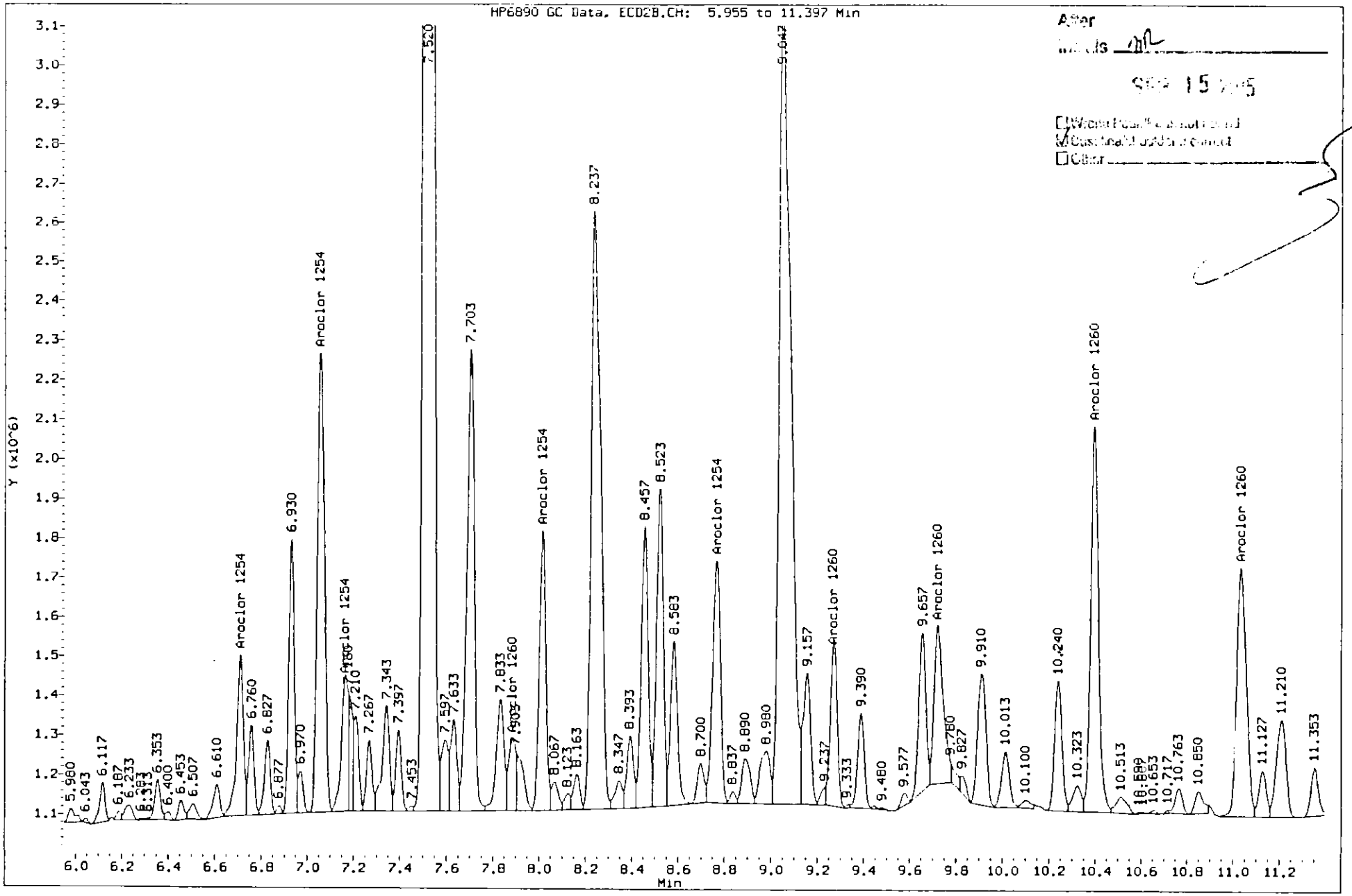
Column diameter: 0.32



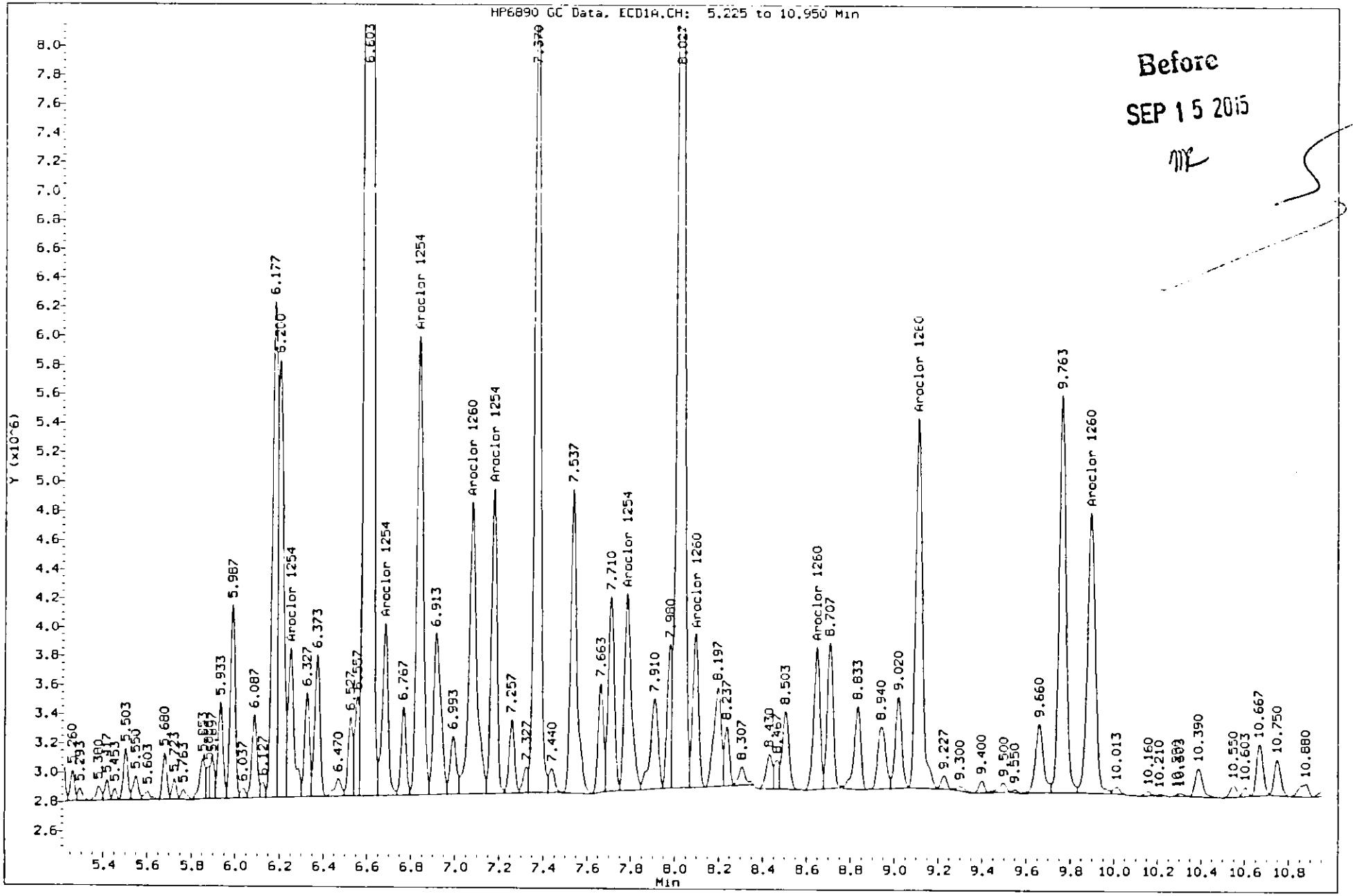
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



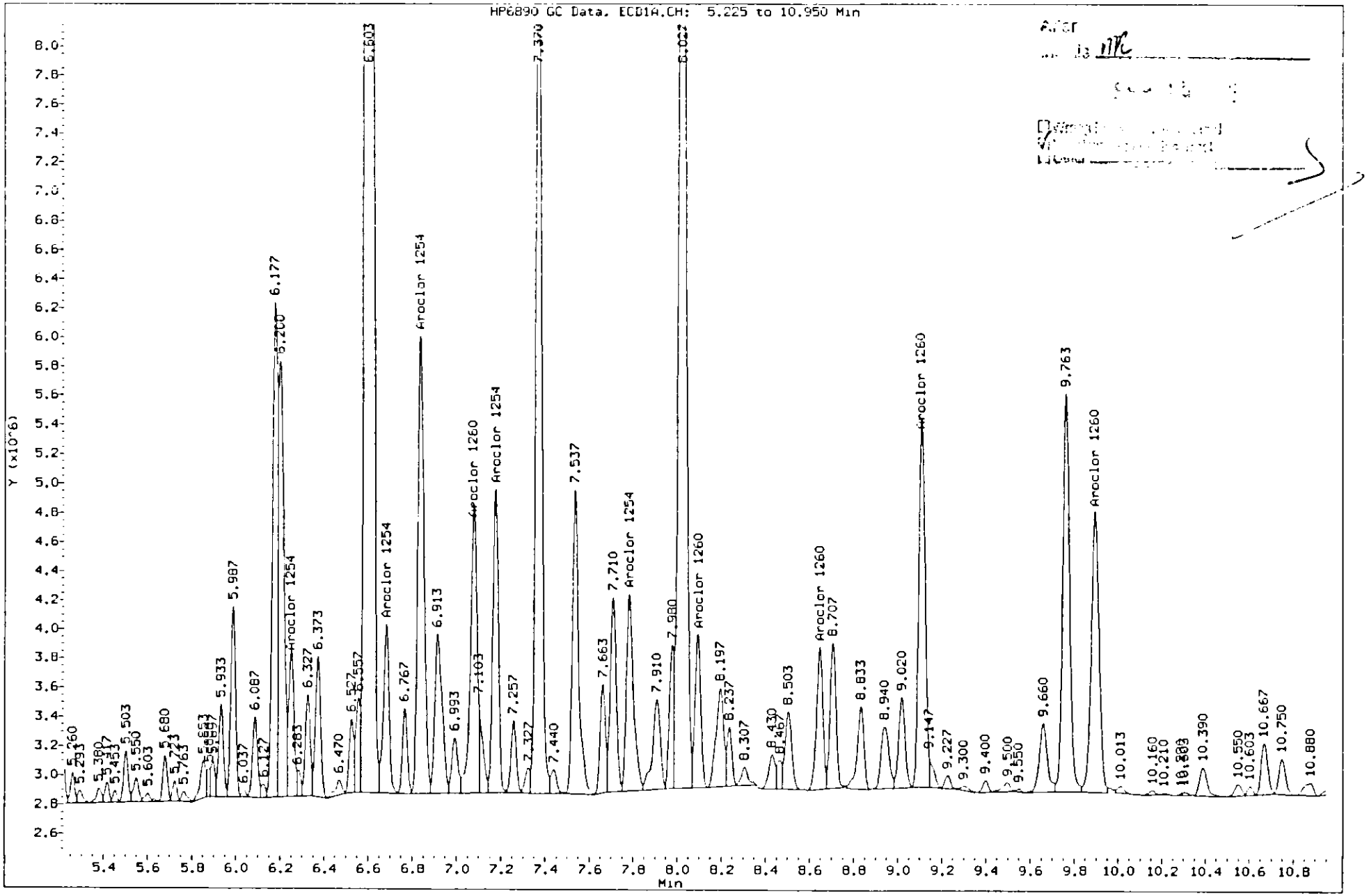
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F012.D
Injection Date: 11-SEP-2015 21:17
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	~~ICV~~ NC

mr 09/15/15

Primary Review: mr 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F013.D
Lab ID: KWG1508618-1 -- K1509528-006MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/11/2015 21:40
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV a
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:56:00
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465234	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 +0.00	4.34 0.00	17571291	6319800	99.26CCV	80.35			99 OK
			%Recovery =		99 OK	80 OK	Limits =	44-130	
Decachlorobiphenyl	12.27 +0.00	13.63 +0.00	15470180	7550124	97.83	91.68			98 OK
			%Recovery =		98 OK	92 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	856.75	788.25	115	106	106
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	2523398m	1381703m	703.10	751.70	94.4	101	
Aroclor 1016 {2}	4.74 0.00	4.96 +0.00	2707157m	2538257m	903.56	1,043	121	140	
Aroclor 1016 {3}	4.94 +0.00	5.59 +0.00	8155207m	2098668m	824.50	699.73	111	93.9	
Aroclor 1016 {4}	5.21 +0.00	5.93 +0.00	4767834m	1541066m	961.01	702.08	129	94.2	
Aroclor 1016 {5}	5.50 0.00	6.12 +0.01	4615242m	1606547m	891.59	745.15	120	100	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D			**Vial:**	11
Acqu Date:	09/11/2015 21:40	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-1 -- K1509528-006MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,139	1,153	153	155	153
Aroclor 1260 {1}	7.08 +0.00	7.84 +0.00	10797308	2154248m	1,096	976.59	147	131	
Aroclor 1260 {2}	8.10	9.27 +0.00	8803668	4228502m	1,085	1,119	146	150	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	9086681	4675074m	1,104	1,295	148	174	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	22040015	10109112m	1,172	1,171	157	157	
Aroclor 1260 {5}	9.90	11.03 +0.00	17556446	6712352m	1,238	1,202	166	161	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.0686 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Inj Date : 11-SEP-2015 21:40
Sample Info: K1509528-006MS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	17571291	6319800	99.3	80.3		100.00
Aroclor 1016	4.238	4.618	2523398	1381703	703	752	60.00- 120.00	100.00(MH)
	4.741	4.955	2707157	2538257	904	1040	62.72- 94.08	107.28(MH)
	4.938	5.591	8155207	2098668	825	700	164.36- 276.53	323.18(MH)
	5.211	5.925	4767834	1541066	961	702	95.63- 143.44	188.94(MH)
	5.501	6.121	4615242	1606547	892	745	100.19- 150.28	182.90(MH)
		Average of Peak Amounts =			857	788		
Aroclor 1260	7.078	7.835	10797308	2154248	1100	977	60.00- 120.00	100.00(H)
	8.095	9.271	8803668	4228502	1090	1120	71.27- 106.90	81.54(H)
	8.648	9.721	9086681	4675074	1100	1300	72.68- 109.02	84.16(H)
	9.111	10.398	22040015	10109112	1170	1170	169.11- 253.66	204.13(H)
	9.895	11.031	17556446	6712352	1240	1200	131.16- 196.75	162.60(H)
		Average of Peak Amounts =			1140	1150		
Decachlorobiphenyl	12.265	13.625	15470180	7550124	97.8	91.7		100.00
Aroclors, Total	0.000	0.000	18210591	7409105	2000	1940		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

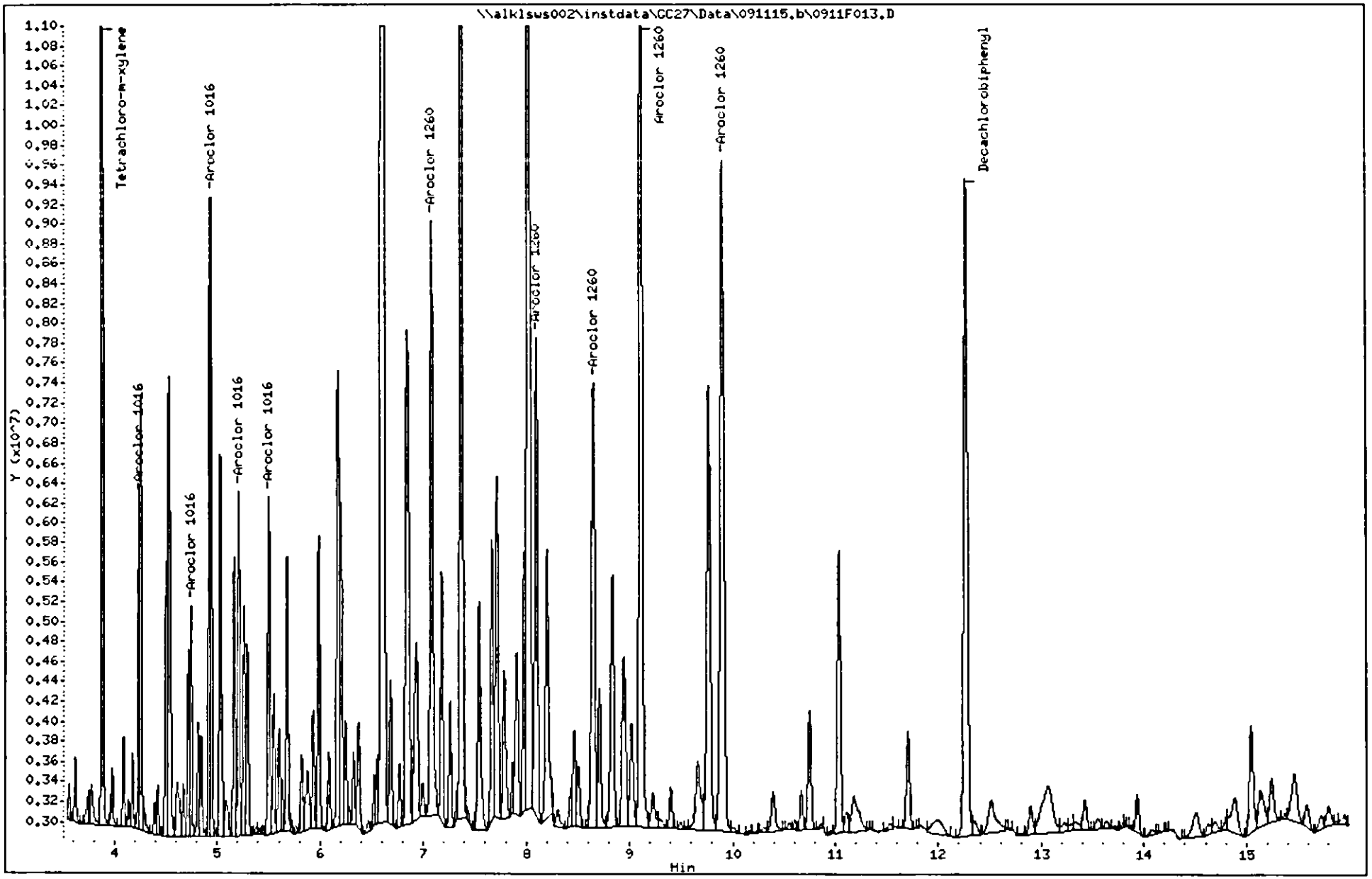
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006MS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32

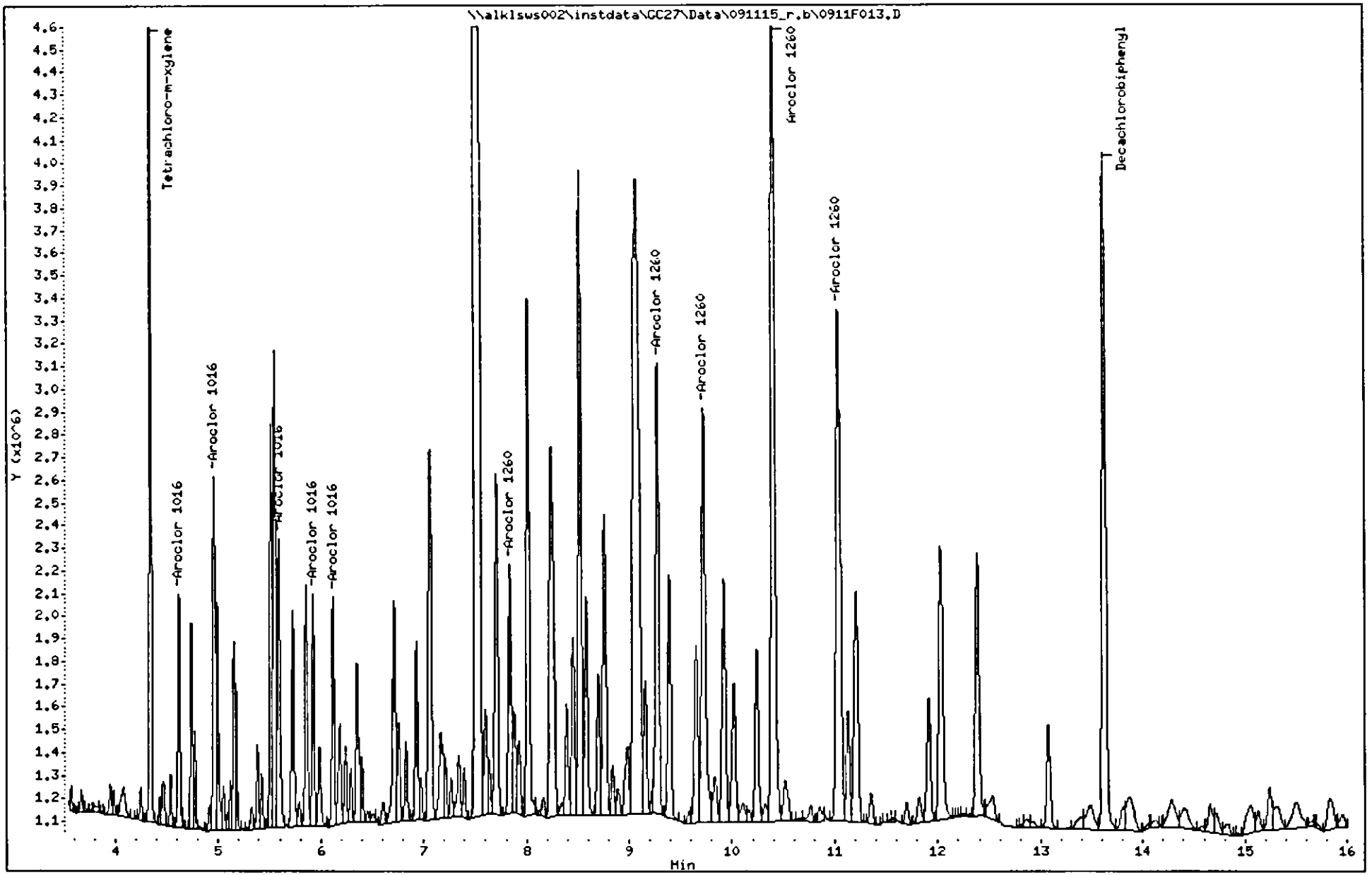


Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F013.D
Date : 11-SEP-2015 21:40
Client ID:
Sample Info: K1509528-006MS

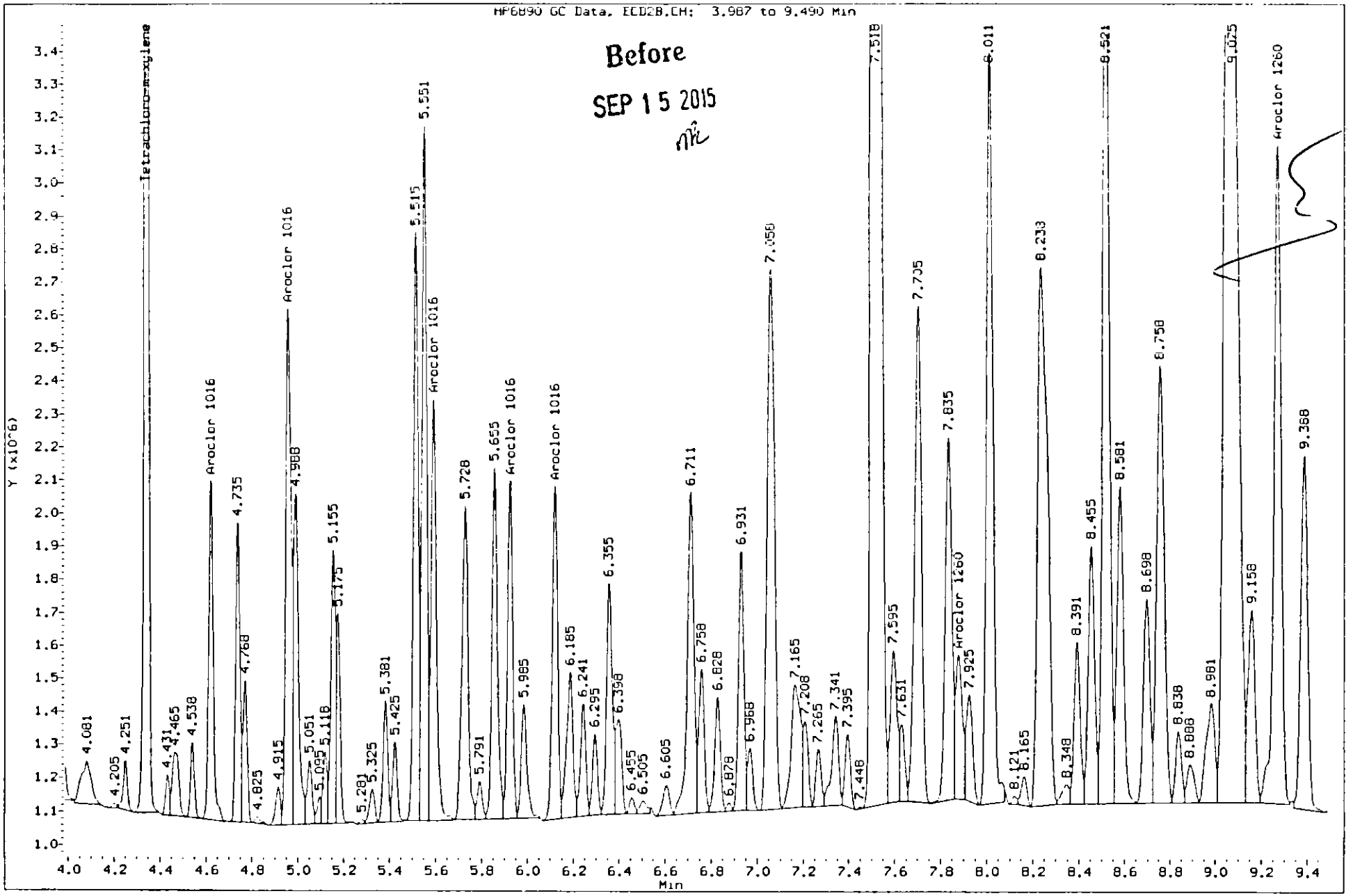
Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

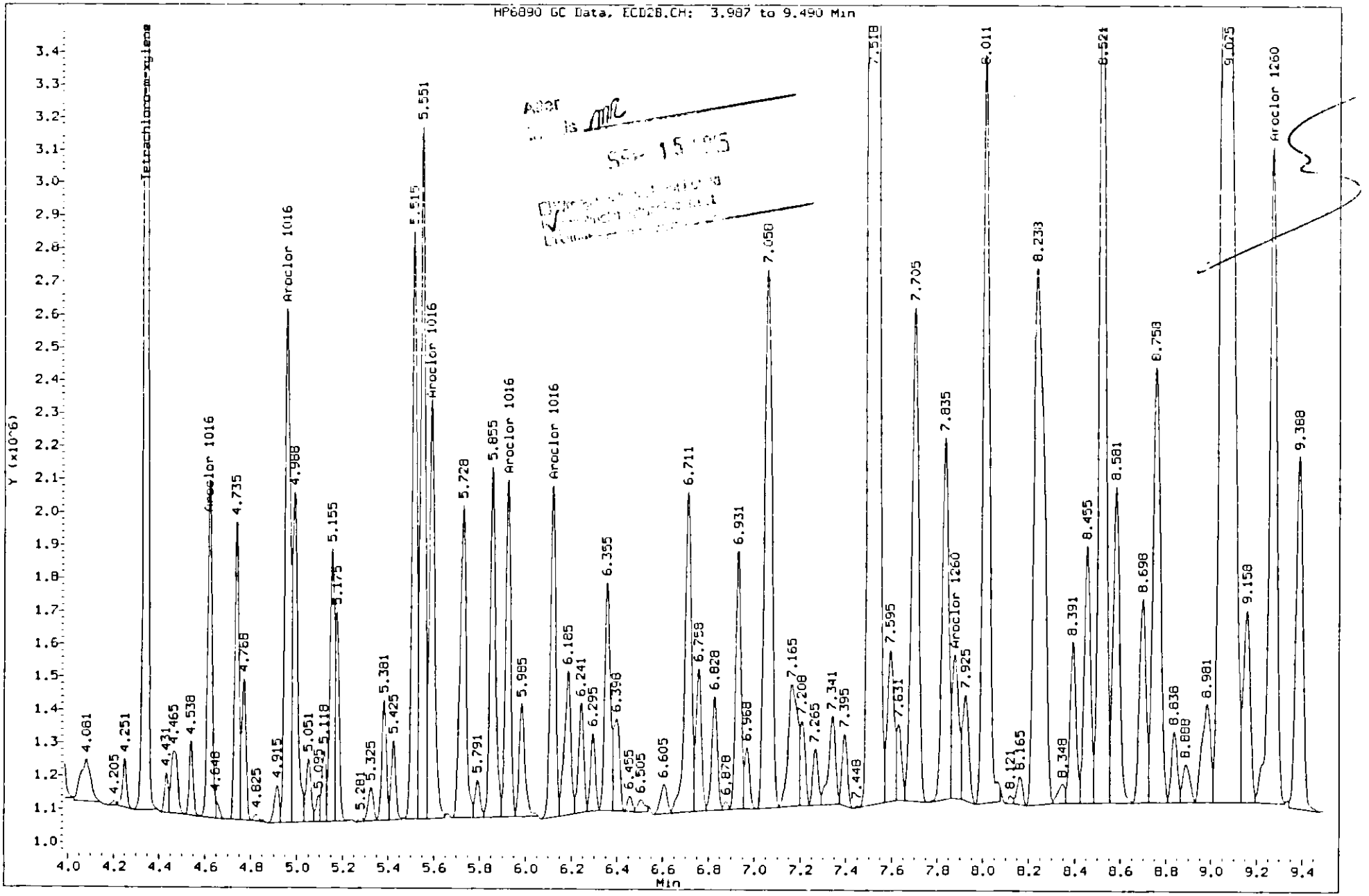
Column phase: DB-XLB



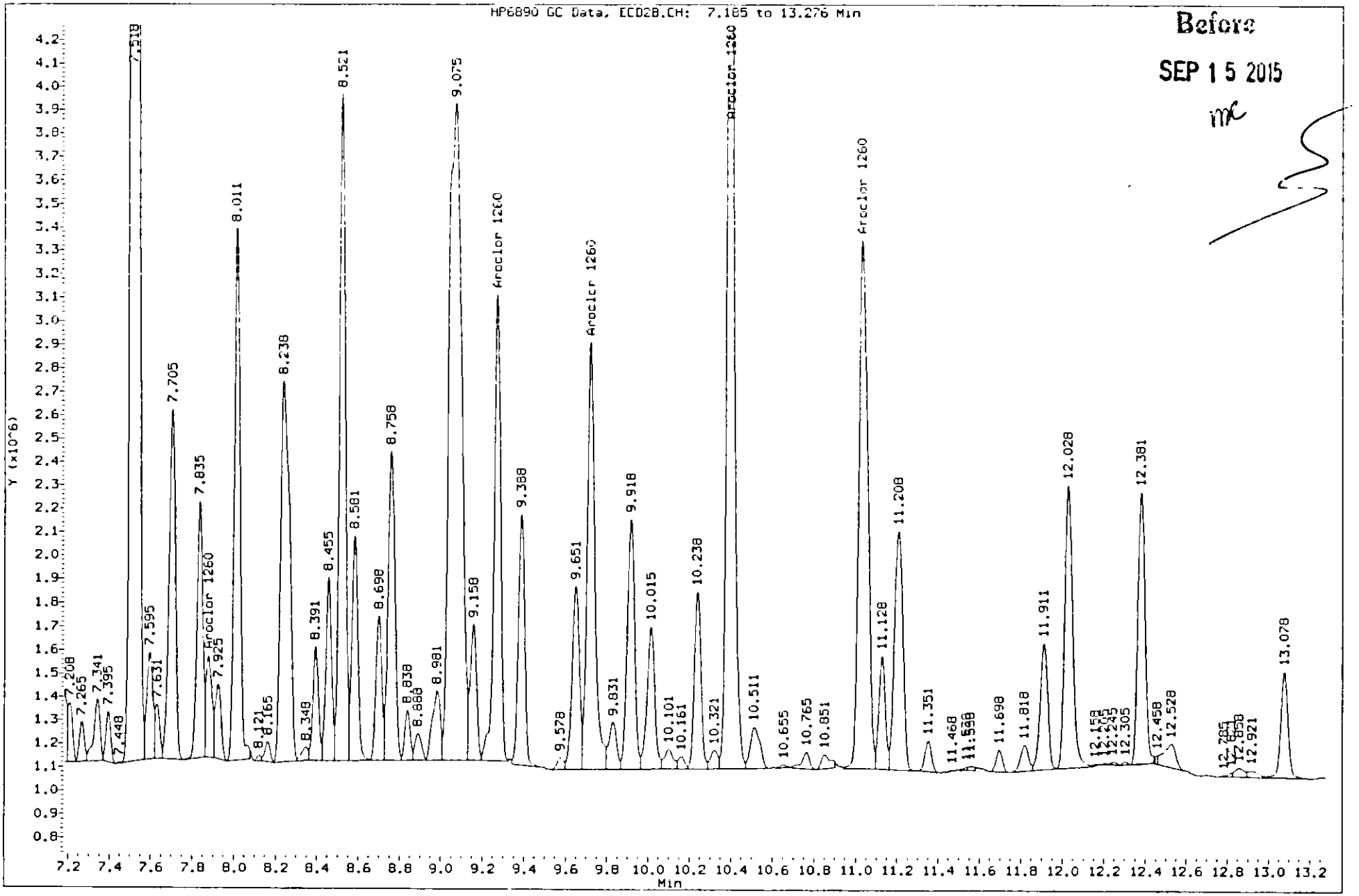
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



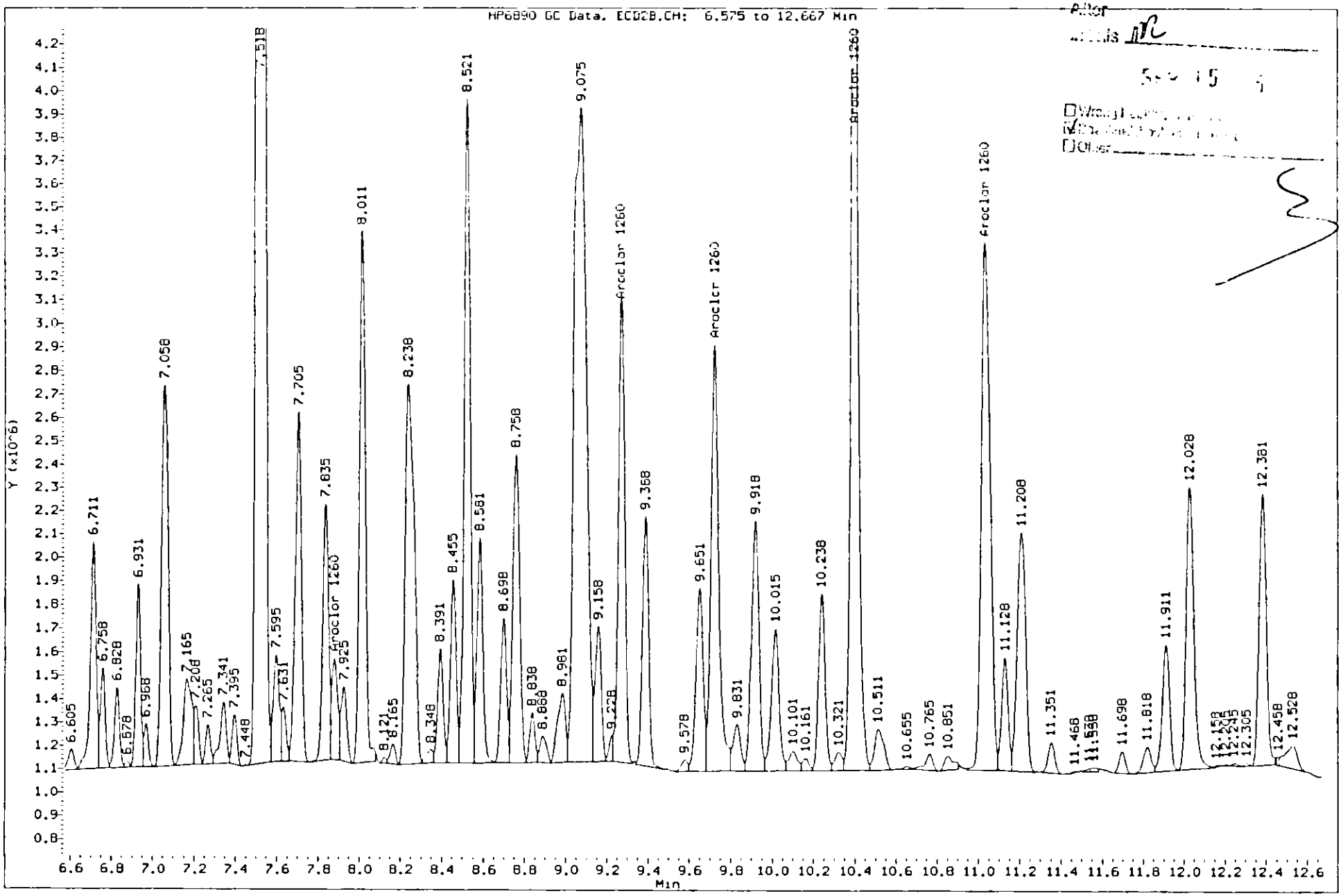
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



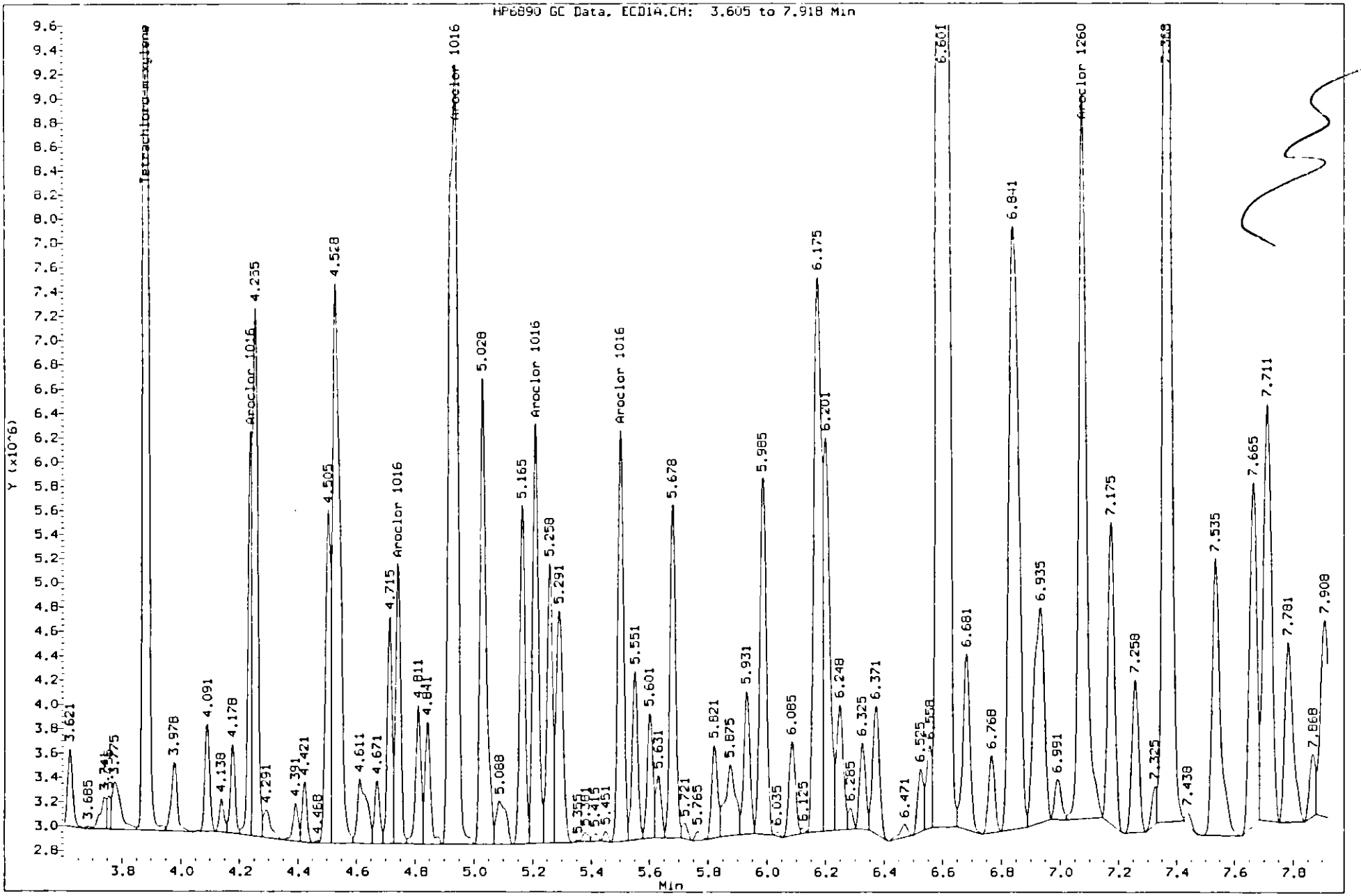
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



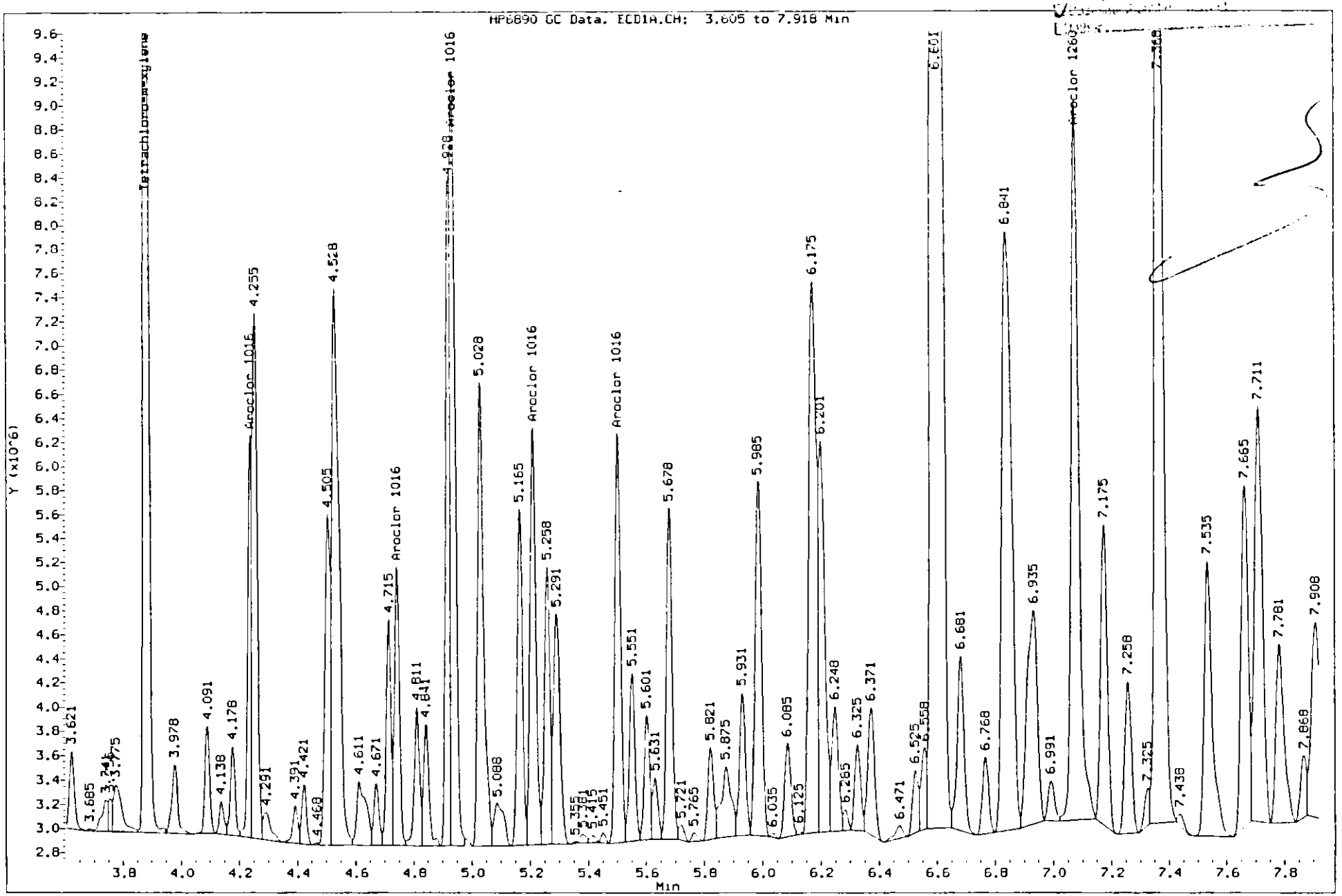
Before

SEP 15 2015

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F013.D
Injection Date: 11-SEP-2015 21:40
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F014.D
Lab ID: KWG1508618-2 -- K1509528-006DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/11/2015 22:04
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCV ok
Continuing Calibration Recovery (Closing)	Tetrachloro-m-xylene	23.0	NA	20	DB

Primary Review: AMR 09/15/15

Secondary Review: [signature]

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F014.D	**Date Acquired:**	09/11/2015 22:04
Lab ID:	KWG1508618-2 -- K1509528-006DMS	**Date Quantitated:**	09/15/2015 08:12
RunType:	DMS	**Batch ID:**	KWG1508799
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IQ ok
	Aroclor 1260	22.7	NA	20	IQ ok

Primary Review: mr 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1465235	**Prep Date:**	09/09/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	+0.00	16718550	6363109	94.44CCV	80.90			94	OK
					%Recovery =		94 OK	81 OK	Limits =	44-130		
Decachlorobiphenyl	12.26	+0.00	13.62	+0.00	14194431	6923777	89.76	84.08			90	OK
					%Recovery =		90 OK	84 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	855.90	774.08	114	103	103
Aroclor 1016 {1}	4.24	+0.00	4.62	+0.00	3103395m	1369979m	864.70	745.32	116	99.6	
Aroclor 1016 {2}	4.74	+0.00	4.96	+0.00	2507113m	2403699m	836.80	987.32	112	132	
Aroclor 1016 {3}	4.94	+0.00	5.59	+0.00	8134329m	2092095m	822.39	697.54	110	93.3	
Aroclor 1016 {4}	5.21	+0.00	5.92	+0.00	4515981m	1545203m	910.24	703.95	122	94.1	
Aroclor 1016 {5}	5.50	0.00	6.12	+0.01	4375868m	1587381m	845.35	736.26	113	98.4	
Aroclor 1221					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242					0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D			**Vial:**	12
Acqu Date:	09/11/2015 22:04	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-2 -- K1509528-006DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	1,081	1,125	145	150	145
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	10248228	2212390m	1,040	1,003	139	134	
Aroclor 1260 {2}	8.10 +0.00	9.27 +0.00	8354044	4110945m	1,030	1,088	138	145	
Aroclor 1260 {3}	8.65 +0.00	9.72 +0.01	8612185	4513412m	1,046	1,251	140	167	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	20975399	9768068m	1,116	1,131	149	151	
Aroclor 1260 {5}	9.90 +0.00	11.03 +0.00	16650665	6437149m	1,174	1,153	157	154	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	30.1926 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Inj Date : 11-SEP-2015 22:04
Sample Info: K1509528-006DMS
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	16718550	6363109	94.4	80.9		100.00
Aroclor 1016	4.240	4.620	3103395	1369979	865	745	80.00- 120.00	100.00(MH)
	4.743	4.957	2507113	2403699	837	987	62.72- 94.08	80.79(MH)
	4.937	5.590	8134329	2092095	822	696	184.36- 276.53	262.11(MH)
	5.210	5.923	4515981	1545203	910	704	95.63- 143.44	145.52(MH)
	5.500	6.120	4375868	1587381	845	736	100.19- 150.28	141.00(MH)
		Average of Peak Amounts =			856	774		
Aroclor 1260	7.077	7.833	10248228	2212390	1040	1000	80.00- 120.00	100.00(H)
	8.097	9.270	8354044	4110945	1030	1090	71.27- 106.90	81.52(H)
	8.647	9.720	8612185	4513412	1050	1250	72.68- 109.02	84.04(H)
	9.110	10.397	20975399	9768068	1120	1130	169.11- 253.66	204.67(H)
	9.897	11.033	16650665	6437149	1170	1150	131.16- 196.75	162.47(H)
		Average of Peak Amounts =			1080	1120		
Decachlorobiphenyl	12.263	13.623	14194431	6923777	89.8	84.1		100.00
Aroclors, Total	0.000	0.000	17495441	7208064	1940	1900		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

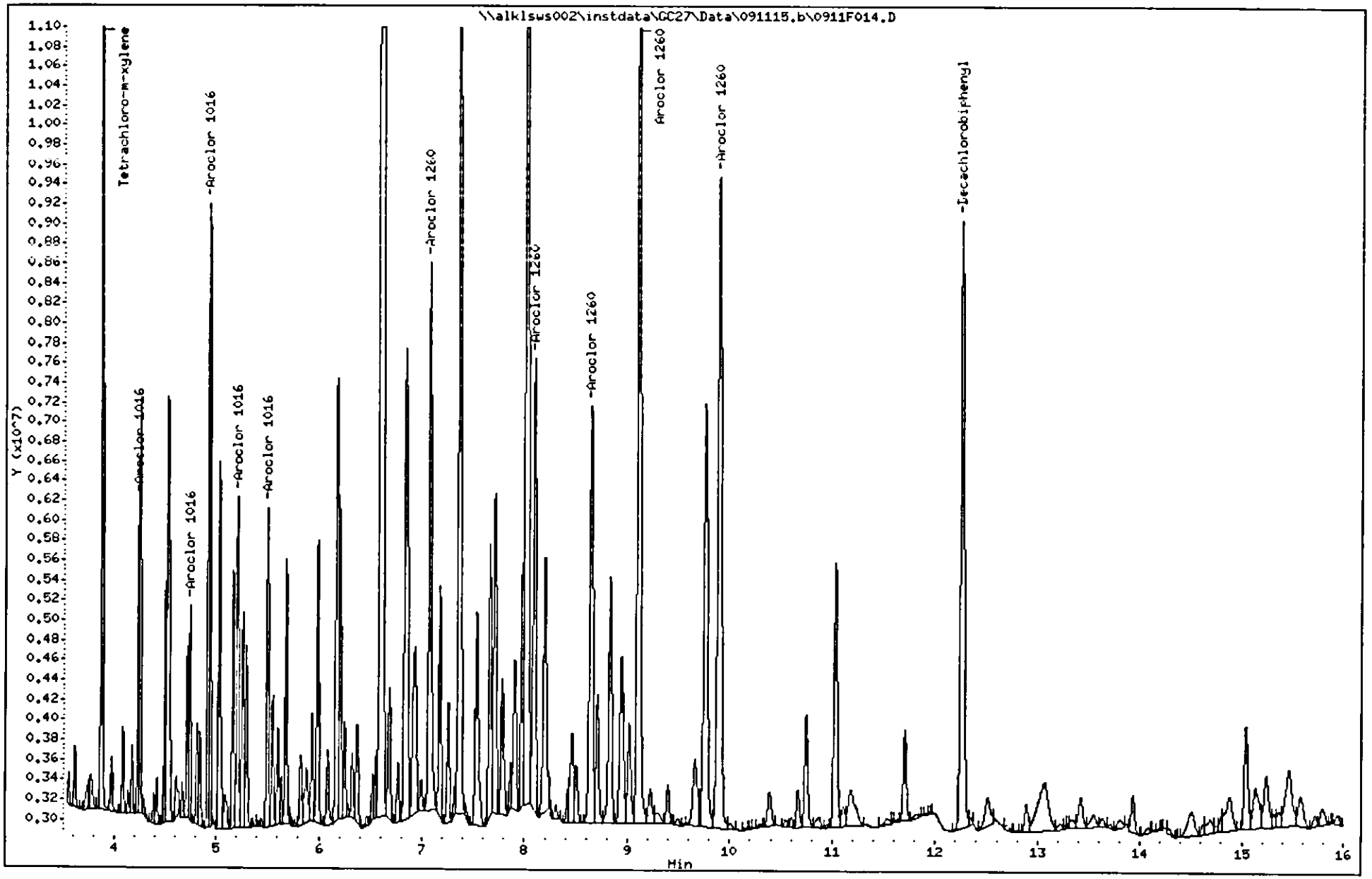
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509528-006DMS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



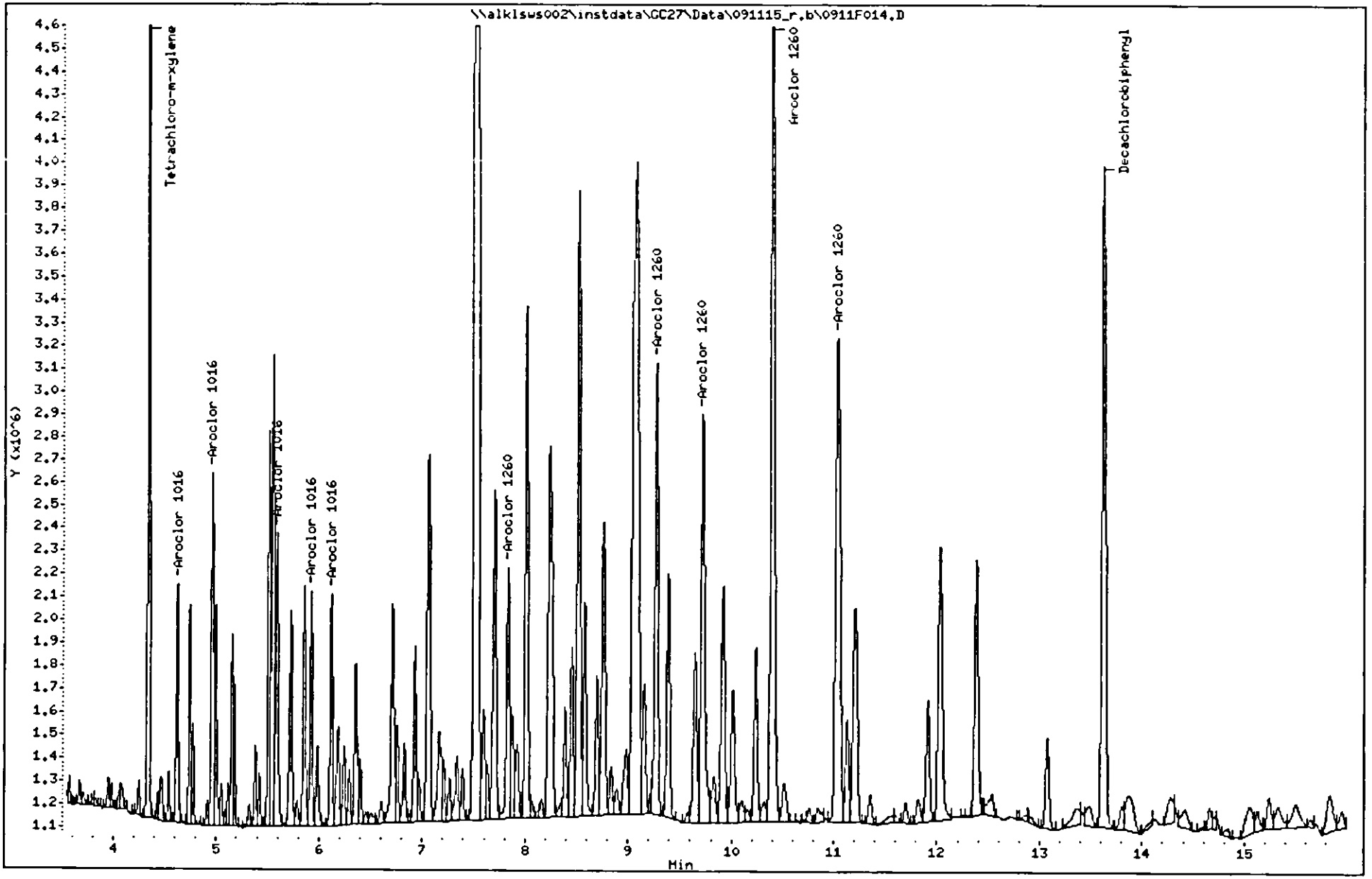
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F014.D
Date : 11-SEP-2015 22:04
Client ID:
Sample Info: K1509528-006DMS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

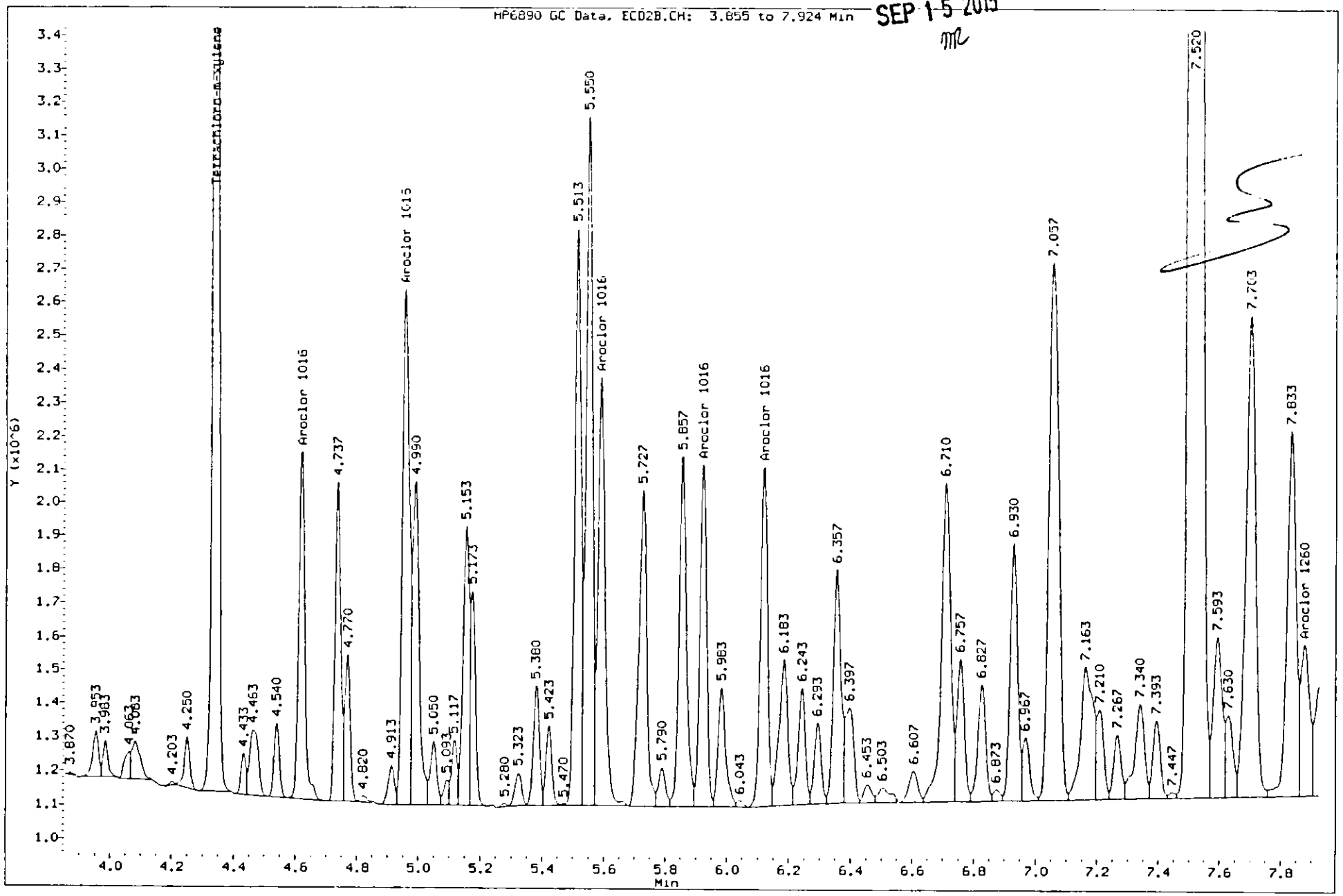
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

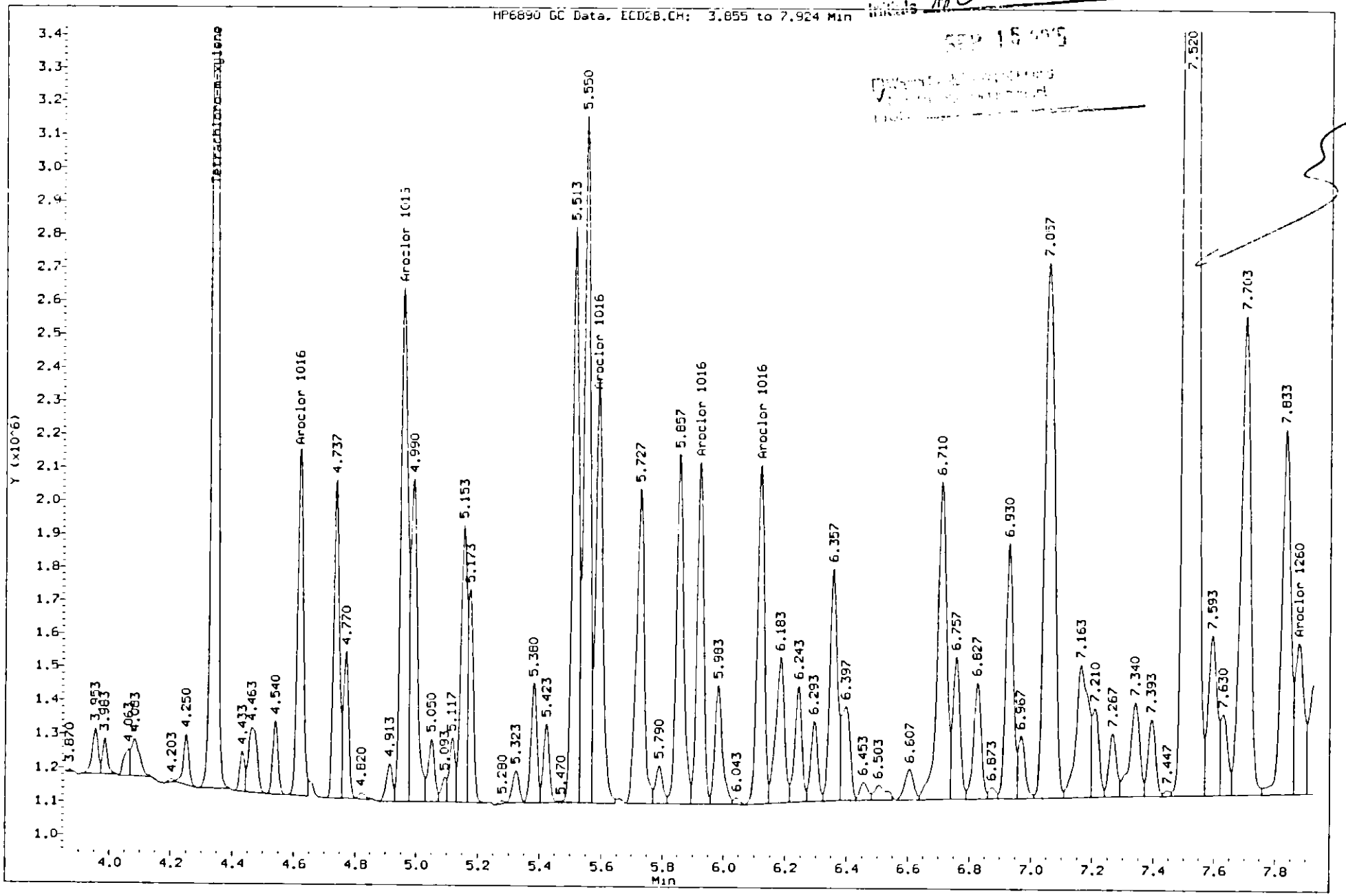
Before

SEP 15 2015



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

Aror
Initials

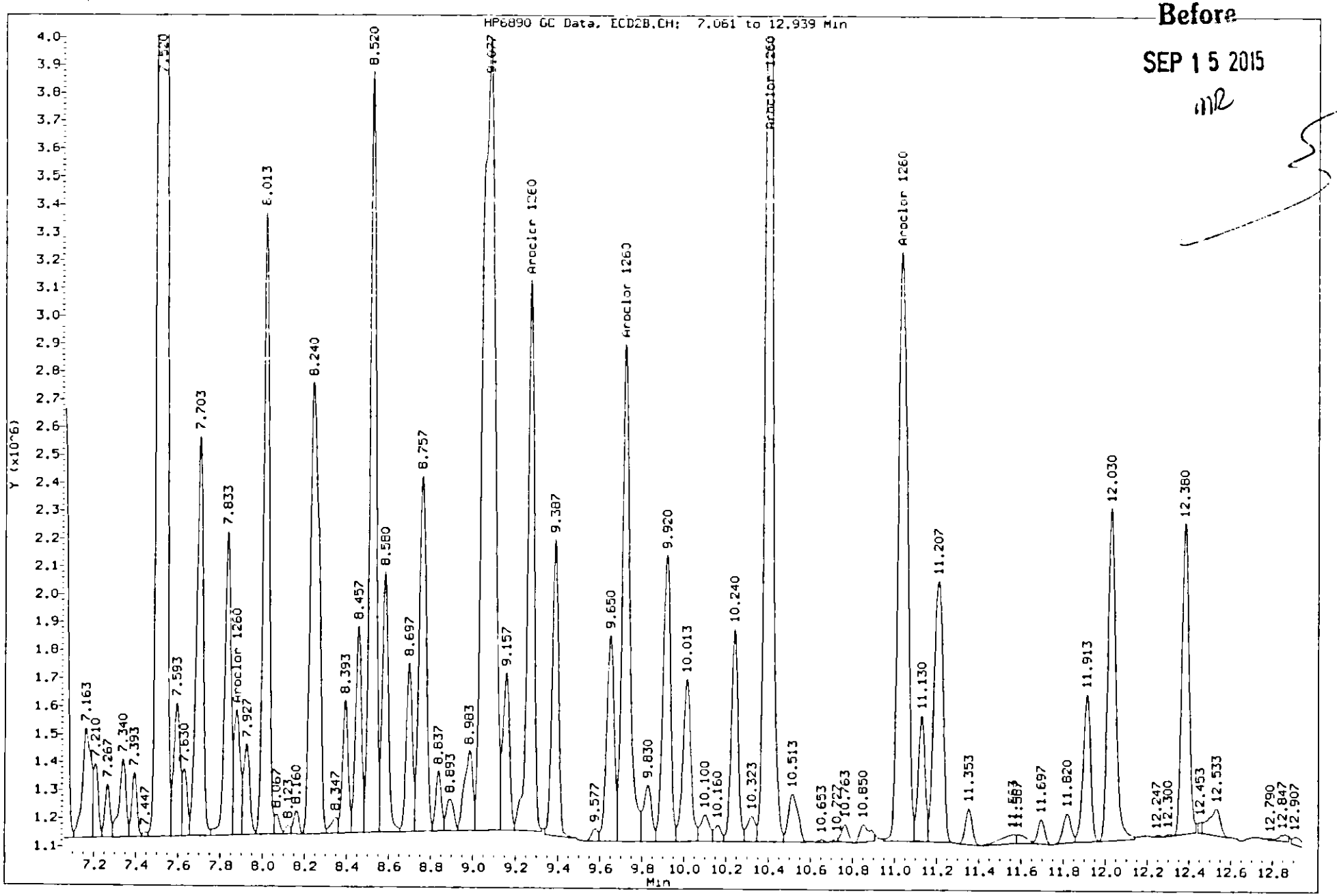


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

Before

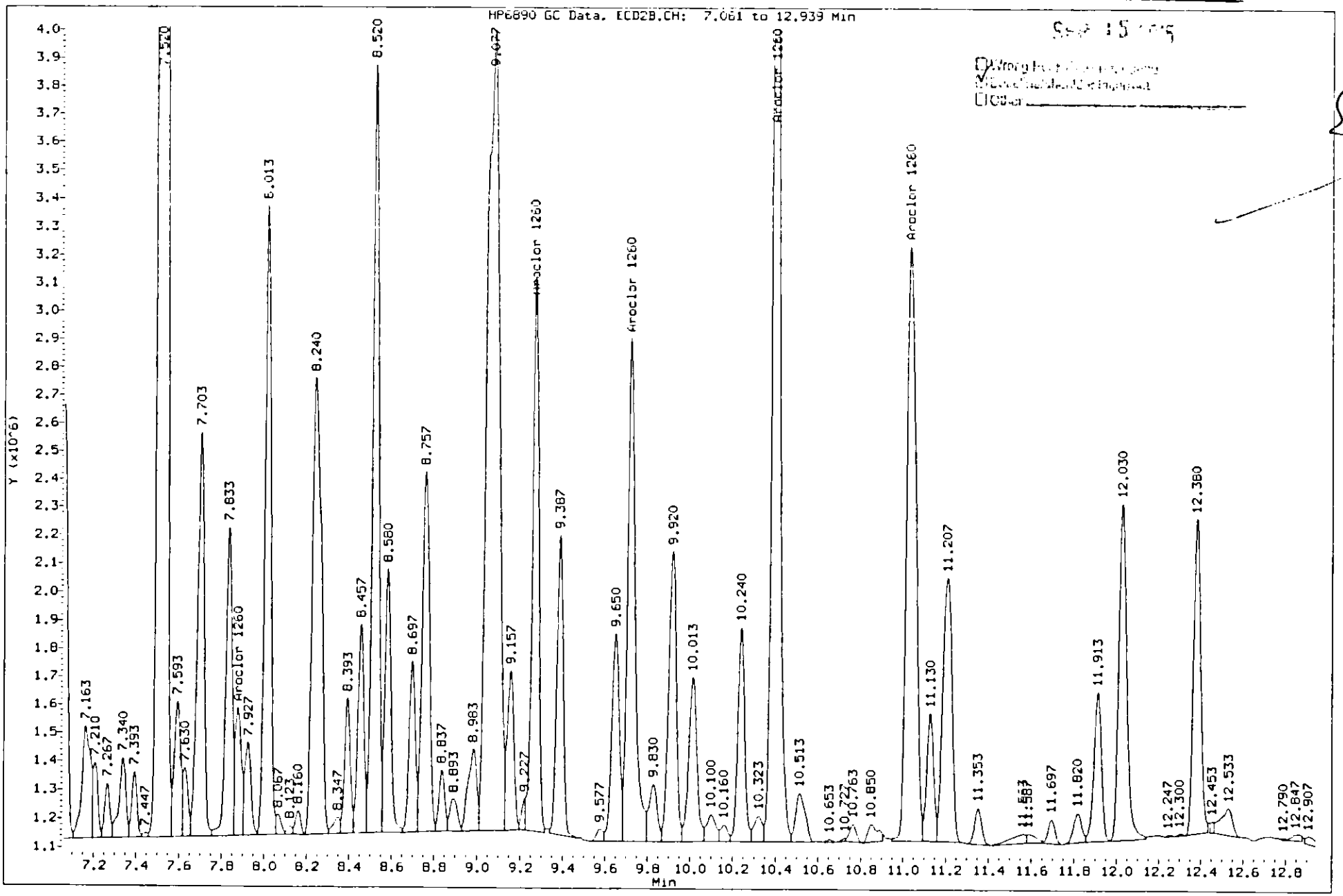
SEP 15 2015

MR



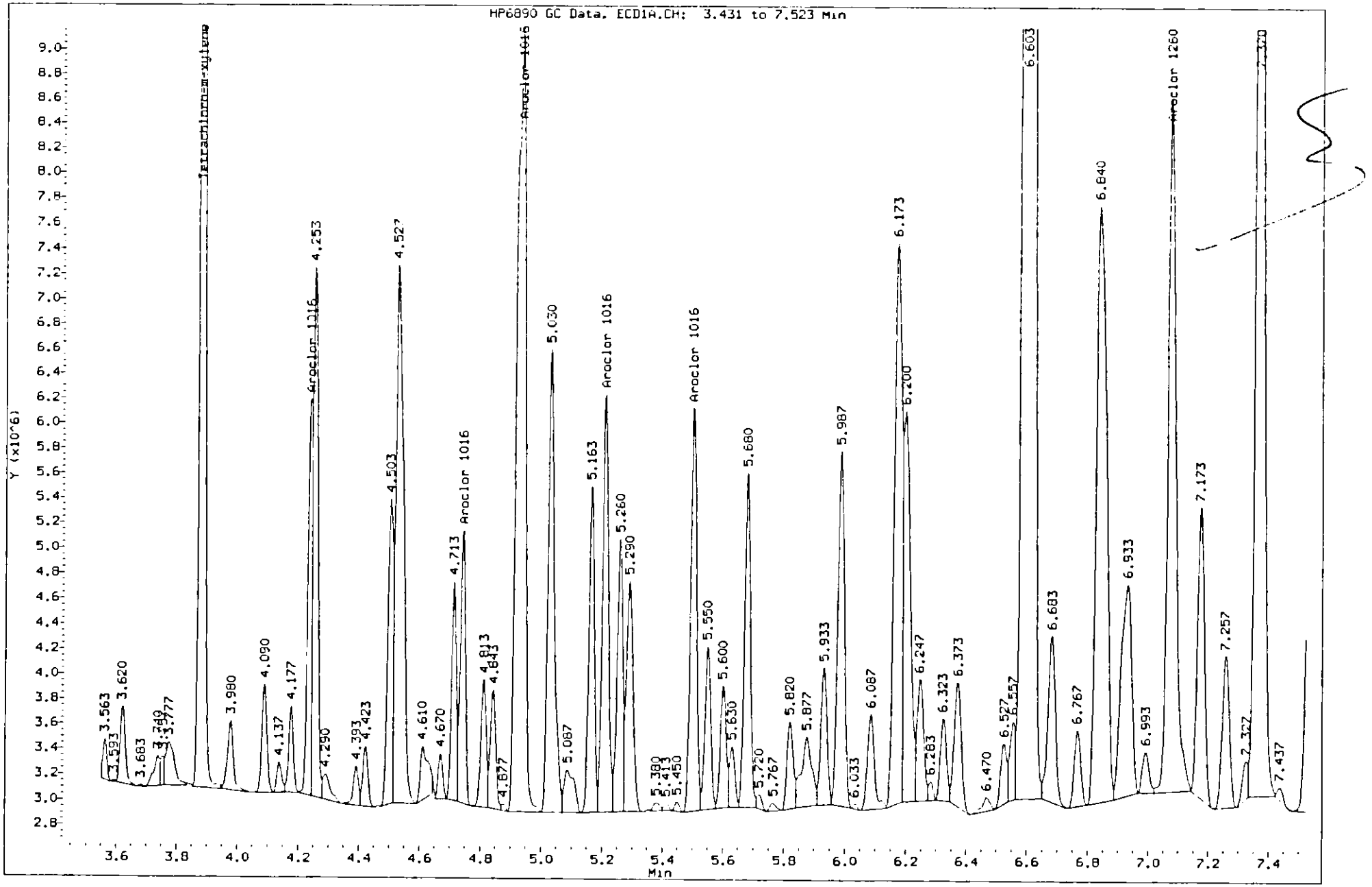
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:

After
Initials

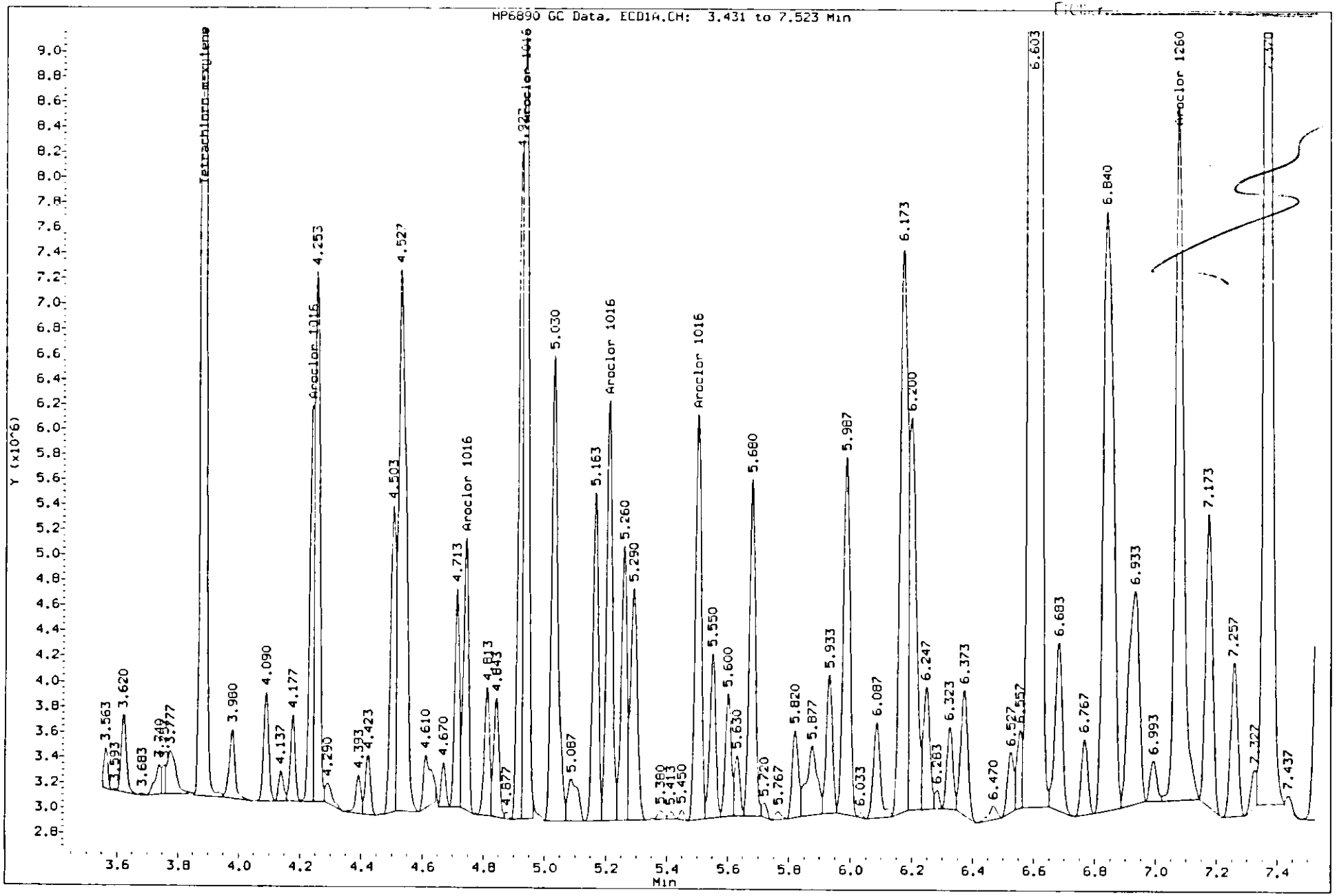


SEP 1 5 2015

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F014.D
Injection Date: 11-SEP-2015 22:04
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCN ok
Continuing Calibration Recovery	Tetrachloro-m-xylene	23.0	NA	20	NR

Primary Review: MR 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F021.D
Lab ID: KWG1508618-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/12/2015 00:46
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: AR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/11/2015

Analysis Lot:	KWG1508799	**Prep Lot:**	KWG1508618	**Report Group:**
Analysis Method:	8082A	**Prep Method:**	EPA 3541	
Prep Ref:	1465236	**Prep Date:**	09/09/2015	

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\091115.B\0911F022.D	**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34 0.00	16426260	6005261	92.79ccv	76.35			76 OK
				%Recovery =	93 OK	76 OK	Limits =	44-130	
Decachlorobiphenyl	12.26 0.00	13.62 0.00	13900789	6930730	87.91	84.16			88 OK
				%Recovery =	88 OK	84 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	766.08	650.12	153	130	130
Aroclor 1016 {1}	4.24 0.00	4.62 0.00	3062176	1286346	853.22	699.82	171	140	
Aroclor 1016 {2}	4.74 0.00	4.95 0.00	2330028	1600473	777.69	657.39	156	131	
Aroclor 1016 {3}	4.93 0.00	5.59 0.00	7196195	1843956	727.55	614.81	146	123	
Aroclor 1016 {4}	5.21 0.00	5.92 0.00	3620850	1392440	729.82	634.37	146	127	
Aroclor 1016 {5}	5.50 0.00	6.11 -0.01	3841457	1388962	742.11	644.23	148	129	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D			**Vial:**	17
Acqu Date:	09/12/2015 00:46	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508618-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260			0	0	865.73	854.55	173	171	171
Aroclor 1260 {1}	7.07 0.00	7.83 0.00	7077147	1632040m	718.45	739.86	144	148	
Aroclor 1260 {2}	8.09 0.00	9.26 -0.01	7418100	3415129m	914.25	903.51	183	181	
Aroclor 1260 {3}	8.64 0.00	9.72 0.00	7348701	3099870m	892.81	858.97	179	172	
Aroclor 1260 {4}	9.11 0.00	10.39 0.00	16888430	7764795m	898.38	899.28	180	180	
Aroclor 1260 {5}	9.89 0.00	11.03 0.00	12835756	4865586m	904.77	871.14	181	174	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
k Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Inj Date : 12-SEP-2015 00:46
Sample Info: KWG1508618-LCS
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	4.338	16426260	6005261	92.8	76.3		100.00
Aroclor 1016	4.238	4.618	3062176	1286346	853	700	60.00- 120.00	100.00(H)
	4.741	4.951	2330028	1600473	778	657	62.72- 94.08	76.09(H)
	4.934	5.588	7196195	1843956	728	615	184.36- 276.53	235.00(H)
	5.208	5.921	3620850	1392440	730	634	95.63- 143.44	118.24(H)
	5.498	6.114	3841457	1388962	742	644	100.19- 150.28	125.45(H)
		Average of Peak Amounts =			766	650		
Aroclor 1260	7.074	7.831	7077147	1632040	718	740	60.00- 120.00	100.00(H)
	8.091	9.264	7418100	3415129	914	904	71.27- 106.90	104.82(H)
	8.644	9.718	7348701	3099870	893	859	72.68- 109.02	103.84(H)
	9.108	10.391	16888430	7764795	898	899	169.11- 253.66	238.63(H)
	9.894	11.028	12835756	4865586	905	871	131.16- 196.75	181.37(H)
		Average of Peak Amounts =			866	855		
Decachlorobiphenyl	12.261	13.621	13900789	6930730	87.9	84.2		100.00
Aroclors, Total	0.000	0.000	14323768	5657919	1630	1500		0.00

QC Flag Legend

H - Operator selected an alternate compound hit.

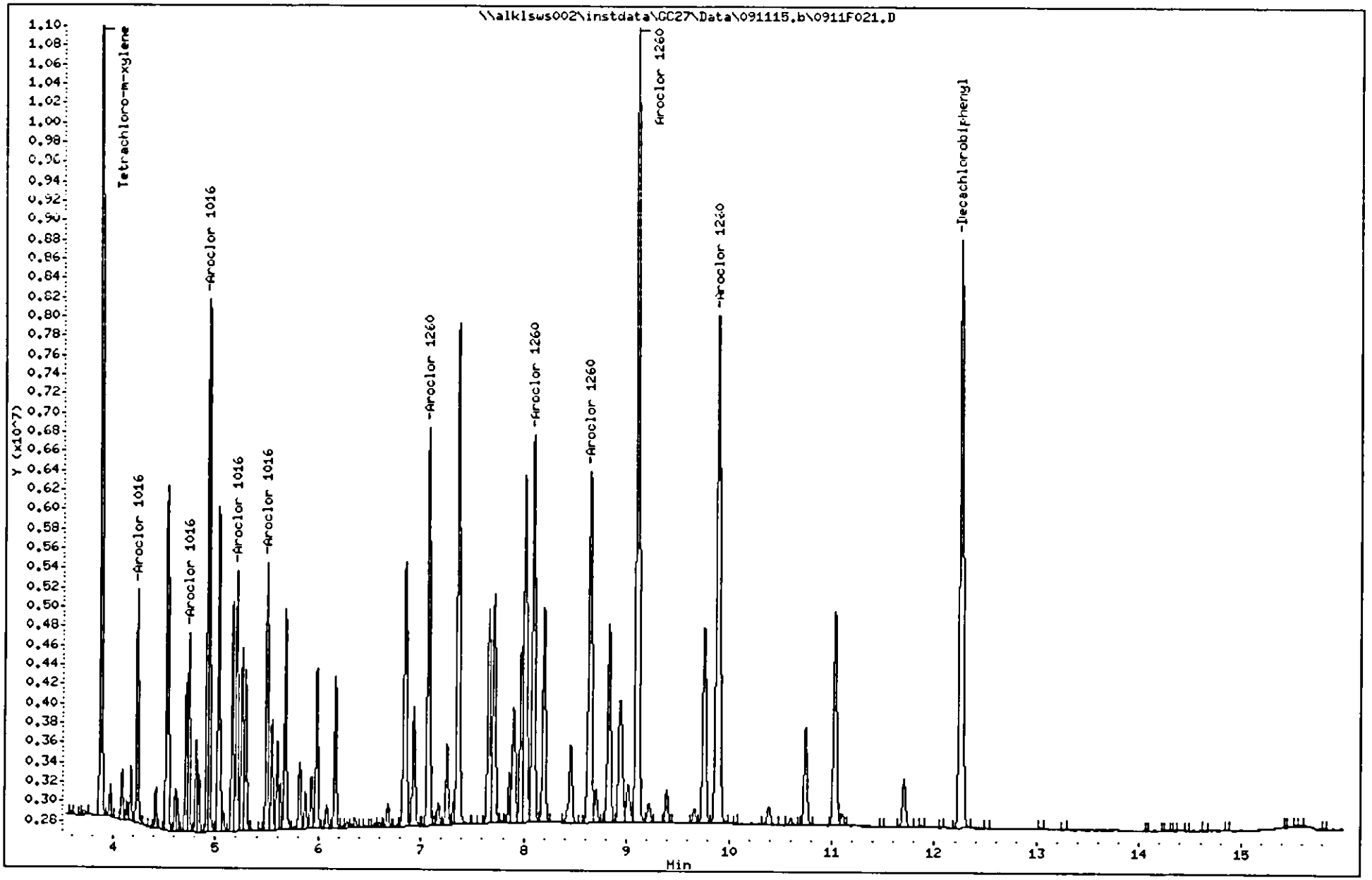
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWG1508618-LCS

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

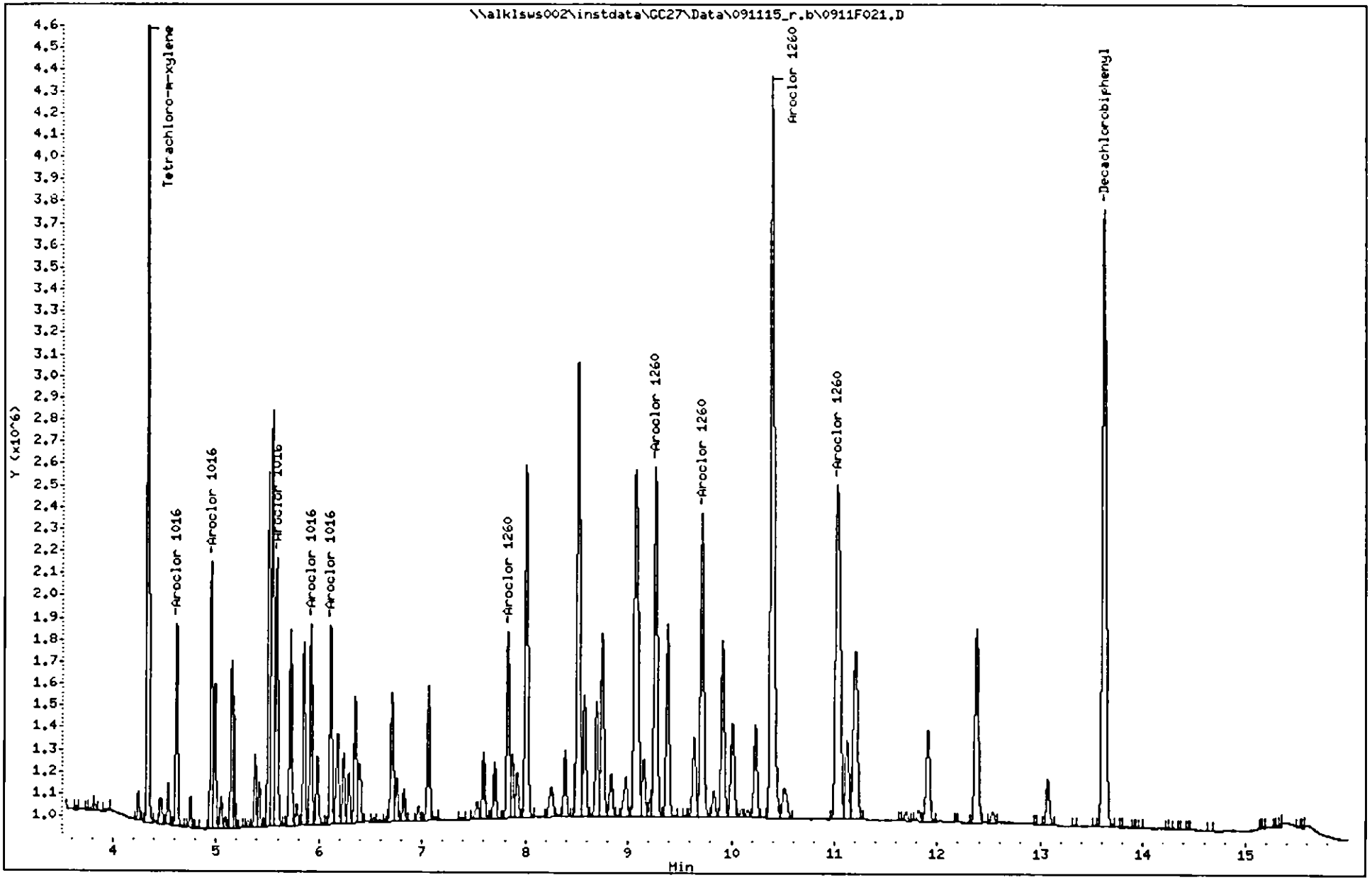
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F021.D
Date : 12-SEP-2015 00:46
Client ID:
Sample Info: KWC1508618-LCS

Instrument: GC27.i

Operator: SHURRAY
Column phase: DB-XLB
Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\091115.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\091115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0911F001	PCB_REG	PRIMER
2	IB	100	0911F002	PCB_REG	PRIMER
3	CCV	1	0911F003	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
4	IB	2	0911F004	PCB_REG	IB
5	SMPL	3	0911F005	PCB_REG	K1509342-003 RERUN
6	SMPL	4	0911F006	PCB_REG	K1509364-001
7	SMPL	5	0911F007	PCB_REG	K1509528-001
8	SMPL	6	0911F008	PCB_REG	K1509528-002
9	SMPL	7	0911F009	PCB_REG	K1509528-003
10	SMPL	8	0911F010	PCB_REG	K1509528-004
11	SMPL	9	0911F011	PCB_REG	K1509528-005
12	SMPL	10	0911F012	PCB_REG	K1509528-006
13	MS	11	0911F013	PCB_REG	K1509528-006MS
14	DMS	12	0911F014	PCB_REG	K1509528-006DMS
15	CCV	1	0911F015	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
16	IB	2	0911F016	PCB_REG	IB
17	SMPL	13	0911F017	PCB_REG	K1509528-007
18	SMPL	14	0911F018	PCB_REG	K1509667-001see 10x a/S
19	SMPL	15	0911F019	PCB_REG	K1509667-002
20	SMPL	16	0911F020	PCB_REG	K1509732-001
21	LCS	17	0911F021	PCB_REG	KWG1508618-LCS
22	MB	18	0911F022	PCB_REG	KWG1508618-MB
23	SMPL	19	0911F023	PCB_REG	K1509920-001
24	SMPL	20	0911F024	PCB_REG	K1509920-002
25	SMPL	21	0911F025	PCB_REG	K1509920-003
26	MS	22	0911F026	PCB_REG	K1509920-003MS
27	DMS	23	0911F027	PCB_REG	K1509920-003DMS
28	LCS	24	0911F028	PCB_REG	KWG1508674-LCS
29	MB	25	0911F029	PCB_REG	KWG1508674-MB
30	CCV	1	0911F030	PCB_REG	1660 @ 500ppb PCB6-74E ok, ok
31	IB	2	0911F031	PCB_REG	IB
32					

Run # 462046
Col # 13624
KWG 1508799

Last Modified: Fri Sep 11 16:58:38 2015

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F003.D
Lab ID: KWG1508799-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 17:47
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F003.D
Lab ID: KWG1508799-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 17:47
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Out

Primary Review: AR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D			**Vial:**	1
Acqu Date:	09/11/2015 17:47	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9471331	4357293	53.50	55.40			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8199255	4338697	51.85	52.69			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	451.92	472.93			
Aroclor 1016 {1}	4.24	4.62	1755801	910290	489.22	495.23			
Aroclor 1016 {2}	4.74	4.95	1405809	1201250	469.22	493.41			
Aroclor 1016 {3}	4.94	5.59	4402966	1332846	445.15	444.40			
Aroclor 1016 {4}	5.21	5.92	2123445	1026903	428.00	467.83			
Aroclor 1016 {5}	5.50	6.12	2215642	999908	428.03	463.78			
Aroclor 1260			0	0	481.93	518.70			
Aroclor 1260 {1}	7.08	7.83	4340588	1091720m	440.64	494.91			
Aroclor 1260 {2}	8.10	9.27	3893169	1983004m	479.82	524.63			
Aroclor 1260 {3}	8.65	9.72	4007207	1874613m	486.85	519.45			
Aroclor 1260 {4}	9.11	10.39	9290552	4515064m	494.21	522.91			
Aroclor 1260 {5}	9.90	11.03	7208391	2969057m	508.11	531.58			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F003.D
Inj Date : 11-SEP-2015 17:47
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	9471331	4357293	53.5	55.4		100.00
Aroclor 1016	4.239	4.619	1755801	910290	489	495	60.00- 120.00	100.00
	4.742	4.952	1405809	1201250	469	493	62.72- 94.08	80.07
	4.935	5.589	4402966	1332846	445	444	184.36- 276.53	250.77
	5.209	5.922	2123445	1026903	428	468	95.63- 143.44	120.94
	5.502	6.115	2215642	999908	428	464	100.19- 150.28	126.19
		Average of Peak Amounts =			452	473		
Aroclor 1260	7.079	7.832	4340588	1091720	441	495	60.00- 120.00	100.00
	8.095	9.269	3893169	1983004	480	525	71.27- 106.90	89.69
	8.645	9.715	4007207	1874613	487	519	72.68- 109.02	92.32
	9.109	10.392	9290552	4515064	494	523	169.11- 253.66	214.04
	9.895	11.029	7208391	2969057	508	532	131.16- 196.75	166.07
		Average of Peak Amounts =			482	519		
Decachlorobiphenyl	12.262	13.622	8199255	4338697	51.9	52.7		100.00

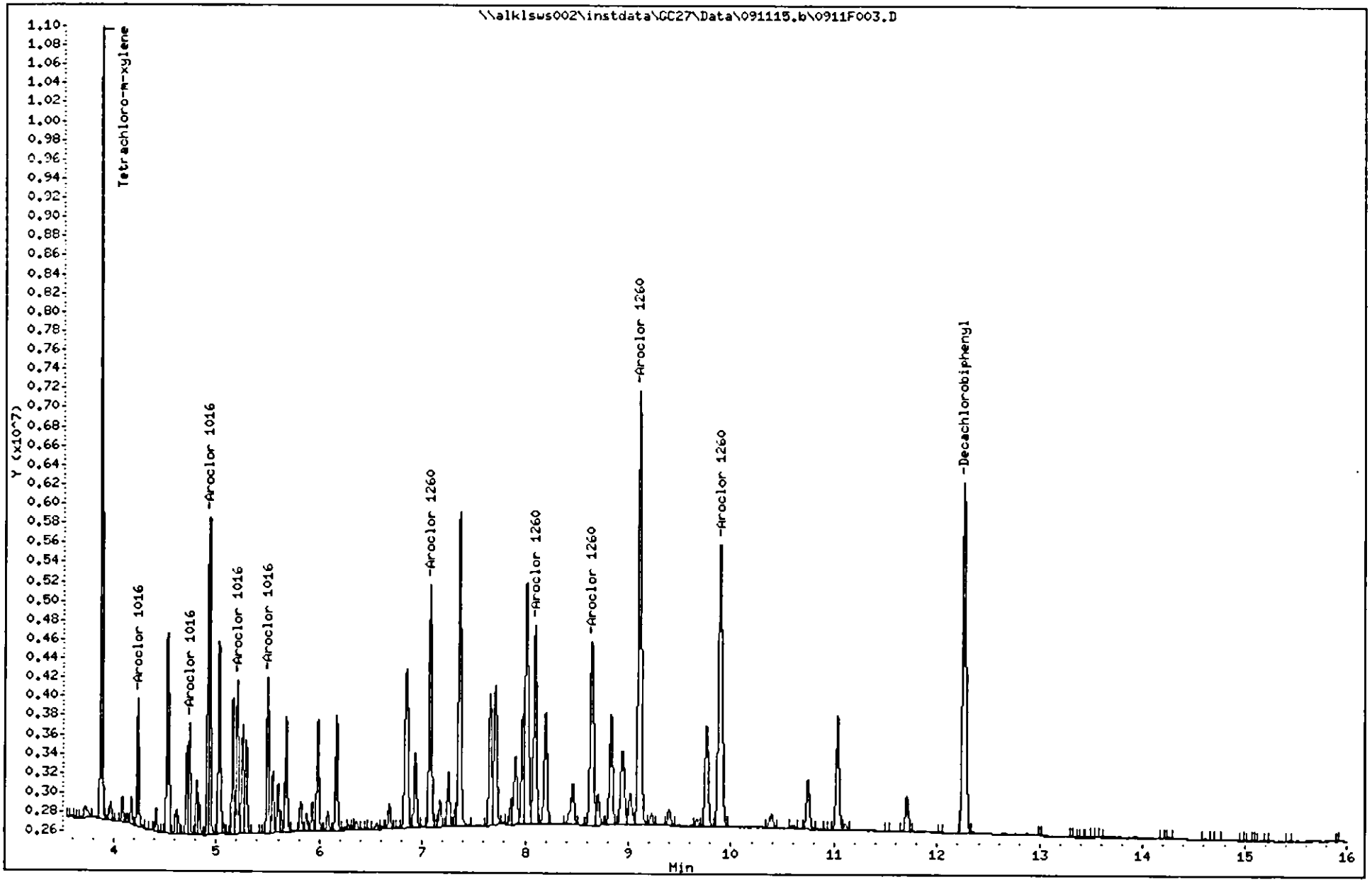
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



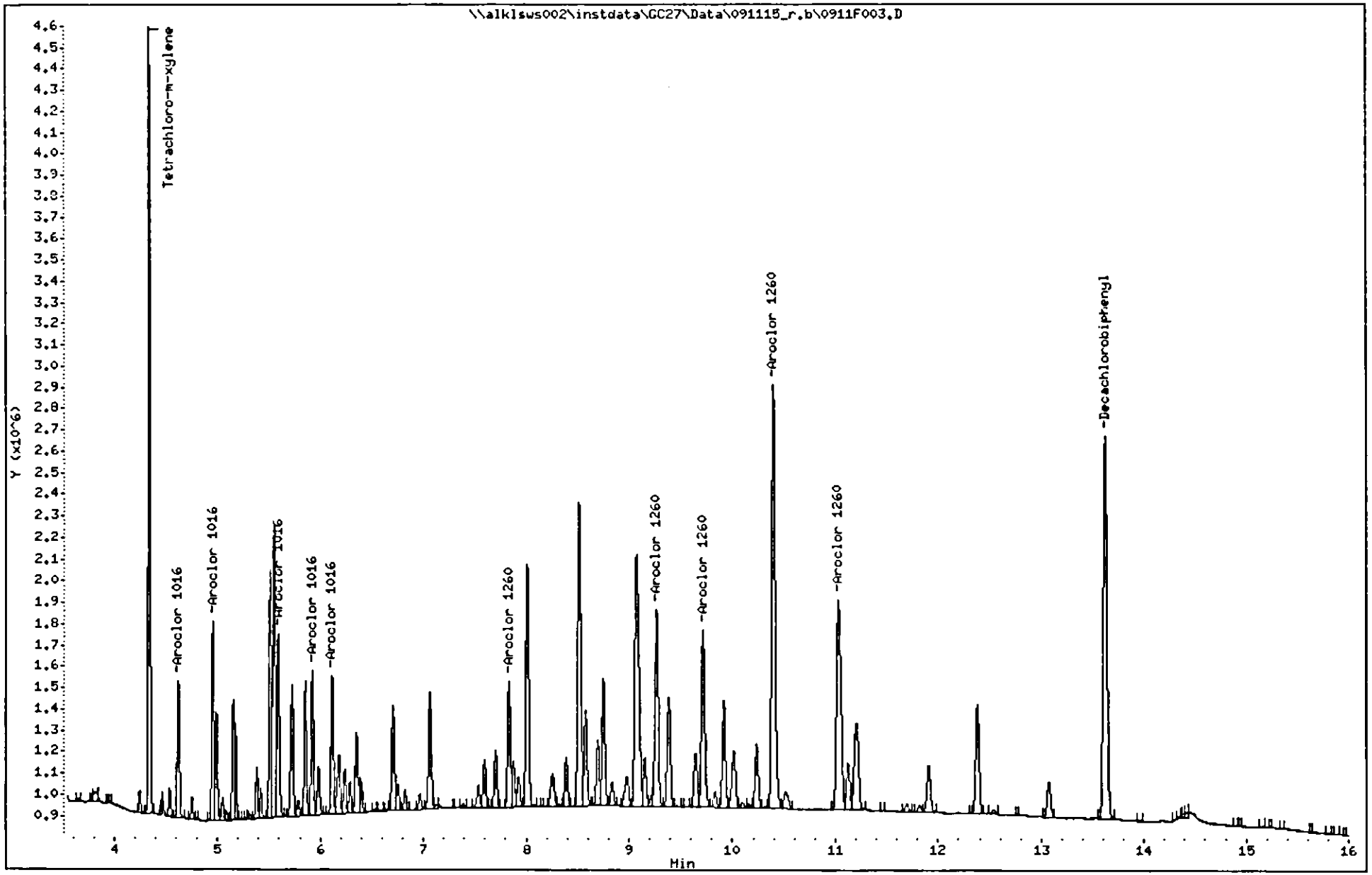
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F003.D
Date : 11-SEP-2015 17:47
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F004.D
Lab ID: KWG1508799-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 18:10
Date Quantitated: 09/15/2015 08:10
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/15/15

Secondary Review: _____

Printed: 09/15/2015 08:54:30
u:\Stealth\Crystal\rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F004.D
Lab ID: KWG1508799-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 18:10
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV ok

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		16351	0	0.0920	0.0000			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	12.25	13.61	19398	5110	0.1230	0.0620			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	1.66			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}		4.98	0	4853	0.0000	1.99			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}		5.96	0	3305	0.0000	1.51			
Aroclor 1016 {5}		6.11	0	3175	0.0000	1.47			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	6.49			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}		4.98	0	4853	0.0000	4.86			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}		5.47	0	16250	0.0000	10.59			
Aroclor 1232 {5}		5.96	0	3305	0.0000	4.01			
Aroclor 1242			0	0	3.40	2.64			
Aroclor 1242 {1}	4.51	4.98	8969	4853	1.50	2.67			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D			**Vial:**	2
Acqu Date:	09/11/2015 18:10	**Quant Date:**	09/15/2015 08:10	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}	5.12	5.72	21354	5602	6.82	3.20			
Aroclor 1242 {4}	5.49	5.96	11117	3305	2.64	2.06			
Aroclor 1242 {5}	5.98		13093	0	2.65	0.0000			
Aroclor 1248			0	0	0.0000	3.21			
Aroclor 1248 {1}		4.98	0	4853	0.0000	3.90			
Aroclor 1248 {2}		5.47	0	16250	0.0000	6.30			
Aroclor 1248 {3}		5.96	0	3305	0.0000	1.11			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	6624	0.0000	1.55			
Aroclor 1254			0	0	6.28	1.39			
Aroclor 1254 {1}		6.70	0	2992	0.0000	0.8140			
Aroclor 1254 {2}	6.68	7.05	8554	6624	1.18	1.14			
Aroclor 1254 {3}	6.83	7.17	33366	2860	2.28	1.48			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}	7.74	8.76	97462	6703	15.39	2.14			
Aroclor 1260			0	0	1.67	0.0000			
Aroclor 1260 {1}	7.08		31132	0	3.16	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.11		24608	0	1.31	0.0000			
Aroclor 1260 {5}	9.89		7583	0	0.5350	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Inj Date : 11-SEP-2015 18:10
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:14
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.881	0.000	16351	0	0.0924	0.000		100.00
Aroclor 1016	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	1.99		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.958	0	3305	0.000	1.51		
	0.000	6.105	0	3175	0.000	1.47		
		Average of Peak Amounts =			0.000	1.66		
Aroclor 1232	0.000	0.000	0	0	0.000	0.000		
	0.000	4.975	0	4853	0.000	4.86		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.468	0	16250	0.000	10.6		
	0.000	5.958	0	3305	0.000	4.01		
		Average of Peak Amounts =			0.000	6.49		
Aroclor 1242	4.511	4.975	8969	4853	1.50	2.67	60.00- 120.00	100.00(T)
	0.000	0.000					153.22- 229.83	0.00(T)
	5.115	5.718	21354	5602	6.82	3.19	37.98- 56.97	238.09(T)
	5.488	5.958	11117	3305	2.64	2.06	47.93- 71.89	123.95(T)
	5.981	0.000	13093		2.65		37.56- 56.34	145.98(T)
		Average of Peak Amounts =			3.40	2.64		
Aroclor 1248	0.000	4.975	0	4853	0.000	3.89		
	0.000	5.468	0	16250	0.000	6.30		
	0.000	5.958	0	3305	0.000	1.11		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.052	0	6624	0.000	1.55		
		Average of Peak Amounts =			0.000	3.21		
Aroclor 1254	0.000	6.695		2992		0.814	60.00- 120.00	100.00(T)
	6.675	7.052	8554	6624	1.18	1.14	1017.66-1526.49	0.00(T)
	6.831	7.168	33366	2860	2.28	1.48	9646.23-14469.35	0.00(T)
	0.000	0.000					50.19- 75.29	0.00(T)
	7.735	8.755	97462	6703	15.4	2.14	281.12- 421.67	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F004.D
Report Date: 15-Sep-2015 08:10

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		6.29	1.39		
Aroclor 1260	7.075	0.000	31132	0	3.16	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.105	0.000	24608	0	1.31	0.000	169.11- 253.66	79.04(T)
	9.891	0.000	7583	0	0.535	0.000	131.16- 196.75	24.36(T)
			Average of Peak Amounts =		1.67	0.000		
Decachlorobiphenyl	12.251	13.612	19398	5110	0.123	0.0621		100.00
Aroclors, Total	0.000	0.000	81201	29053	11.4	15.4		0.00

QC Flag Legend

T - Target compound detected outside RT window.

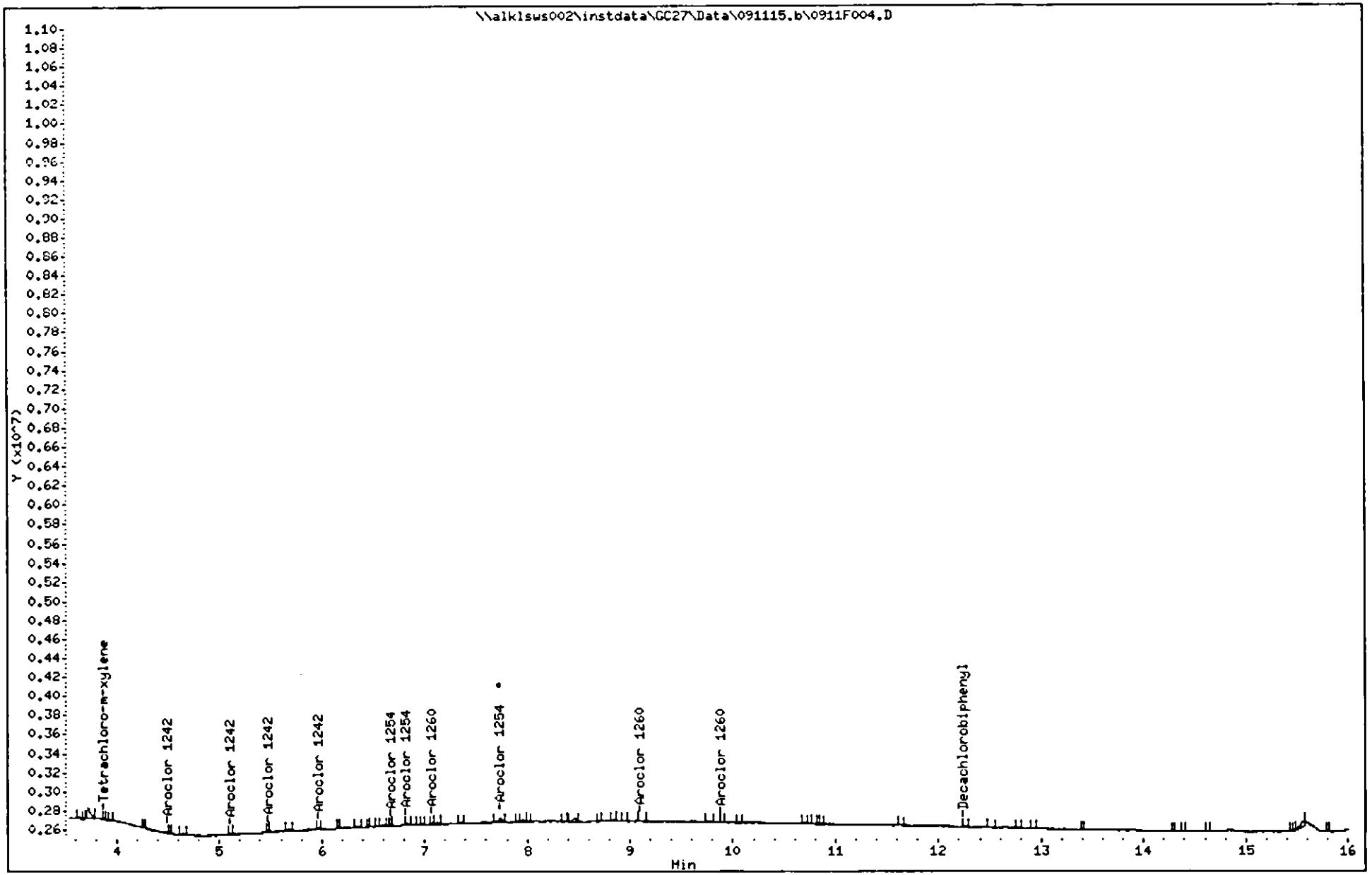
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



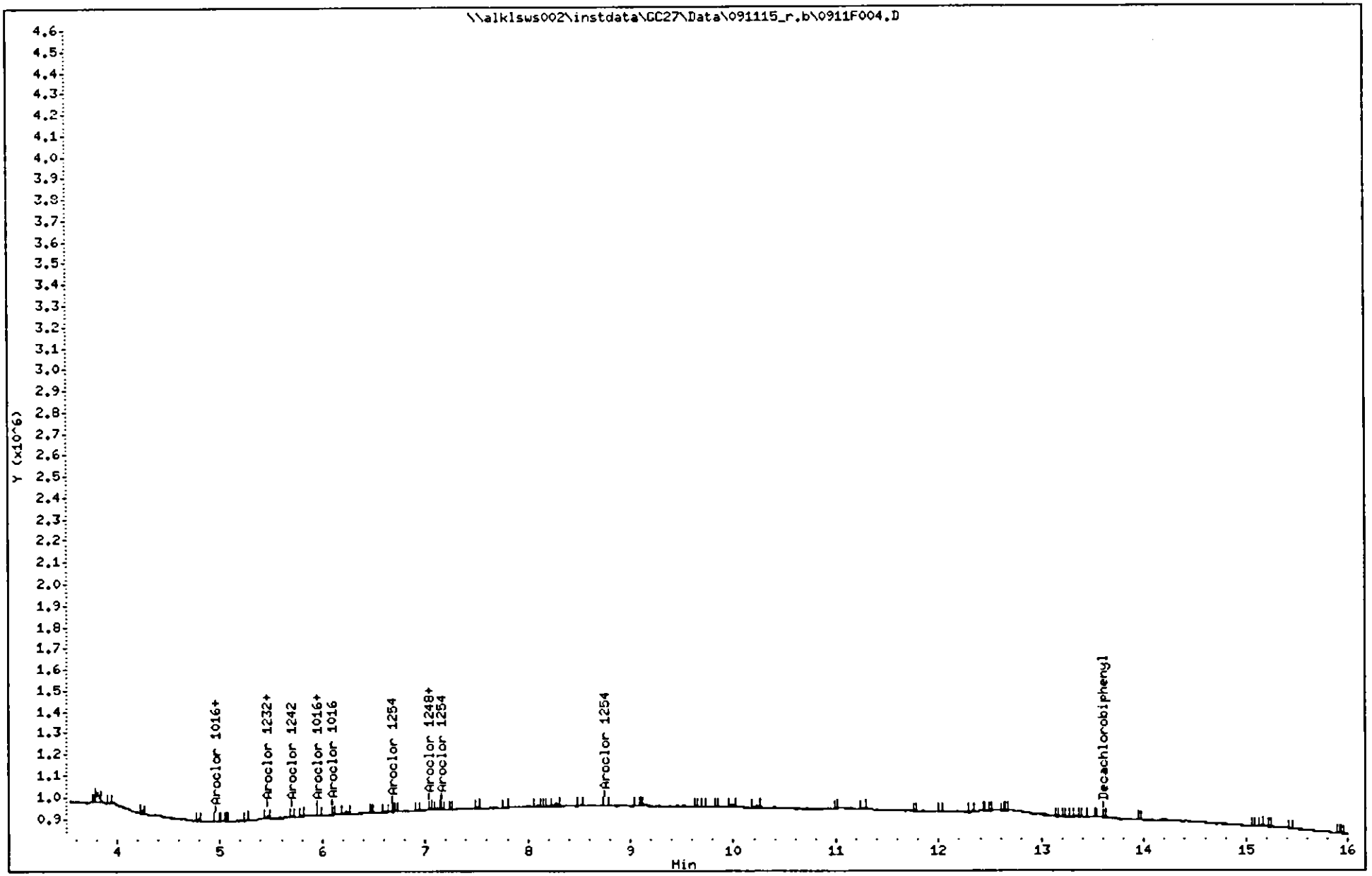
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F004.D
Date : 11-SEP-2015 18:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F015.D
Lab ID: KWG1508799-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:27
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV ok

Primary Review: MR 09/15/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F015.D
Lab ID: KWG1508799-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:27
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	JQ Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D			**Vial:**	1
Acqu Date:	09/11/2015 22:27	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	10883119	3995108	61.48	50.79				NA
				%Recovery =	NA	NA	Limits =	44-130		
Decachlorobiphenyl	12.27	13.63	9149411	4343484	57.86	52.74				NA
				%Recovery =	NA	NA	Limits =	43-148		

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	516.91	434.58			
Aroclor 1016 {1}	4.24	4.62	1984741	819658	553.01	445.92			
Aroclor 1016 {2}	4.74	4.96	1588603	1095769	530.23	450.09			
Aroclor 1016 {3}	4.94	5.59	5018614	1254774	507.39	418.36			
Aroclor 1016 {4}	5.21	5.92	2490088	946320	501.90	431.12			
Aroclor 1016 {5}	5.50	6.12	2546892	921472	492.02	427.40			
Aroclor 1260			0	0	518.80	559.20			
Aroclor 1260 {1}	7.08	7.83	4977981	1128798m	505.35	511.72			
Aroclor 1260 {2}	8.09	9.27	4215859	2037645m	519.59	539.08			
Aroclor 1260 {3}	8.65	9.72	4239469	2458022m	515.06	681.12			
Aroclor 1260 {4}	9.11	10.40	9703509	4572608m	516.18	529.58			
Aroclor 1260 {5}	9.90	11.03	7629749	2985373m	537.81	534.50			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F015.D
Inj Date : 11-SEP-2015 22:27
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10883119	3995108	61.5	50.6		100.00
Aroclor 1016	4.239	4.619	1984741	819658	553	446	60.00- 120.00	100.00
	4.742	4.955	1588603	1095769	530	450	62.72- 94.08	80.04
	4.935	5.589	5018614	1254774	507	418	164.36- 276.53	252.86
	5.209	5.922	2490088	946320	502	431	95.63- 143.44	125.46
	5.502	6.119	2546892	921472	492	427	100.19- 150.28	128.32
		Average of Peak Amounts =			517	434		
Aroclor 1260	7.075	7.832	4977981	1128798	505	512	60.00- 120.00	100.00
	8.092	9.269	4215859	2037645	520	539	71.27- 106.90	84.69
	8.645	9.719	4239469	2458022	515	681	72.68- 109.02	85.16
	9.109	10.395	9703509	4572608	516	530	169.11- 253.66	194.93
	9.895	11.032	7629749	2985373	538	535	131.16- 196.75	153.27
		Average of Peak Amounts =			519	559		
Decachlorobiphenyl	12.265	13.625	9149411	4343484	57.9	52.7		100.00

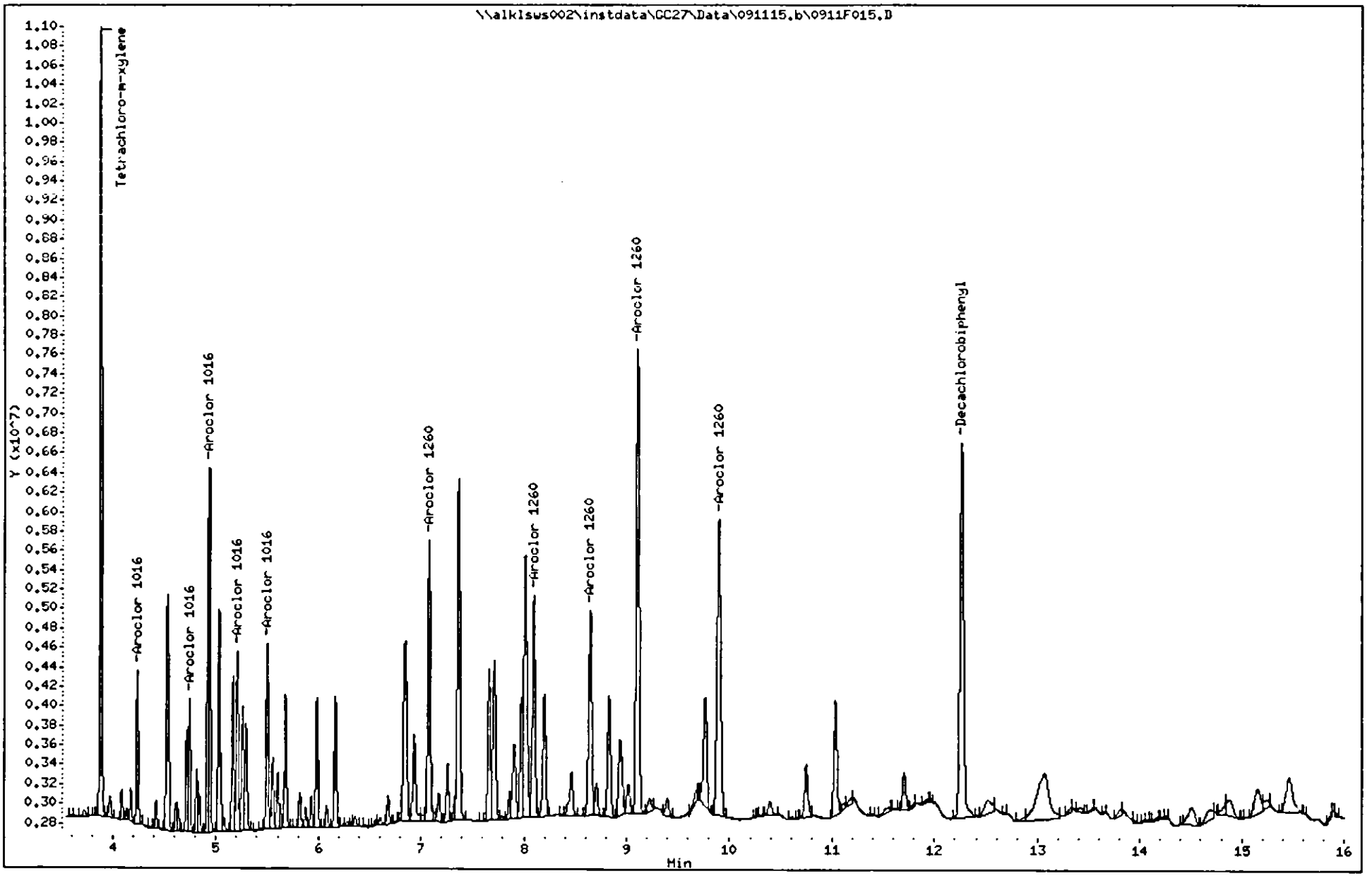
Data File: \\alklsus002\instdata\GC27\Data\091115.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



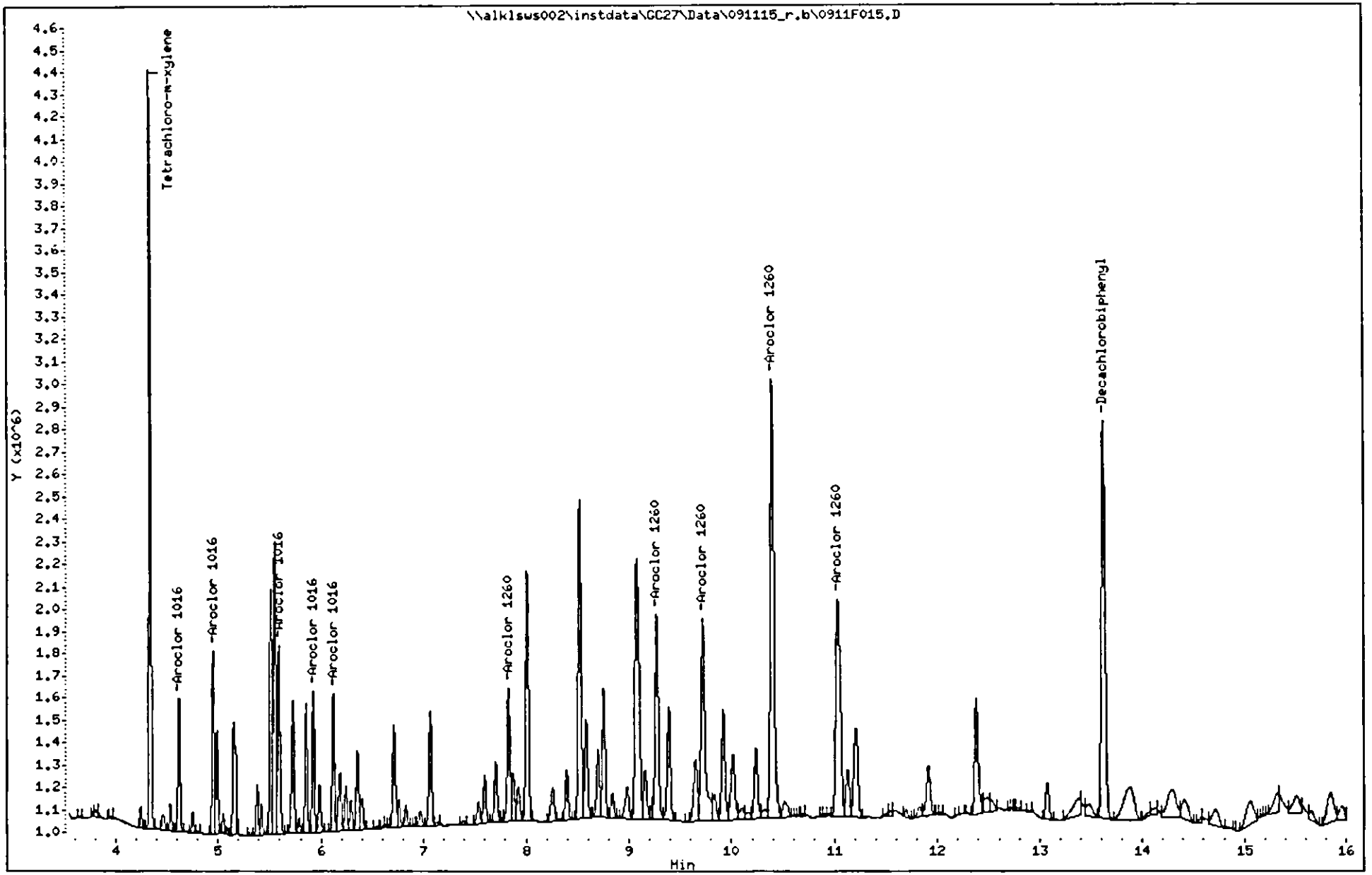
Data File: \\alklsus002\instdata\GC27\Data\091115_r.b\0911F015.D
Date : 11-SEP-2015 22:27
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F016.D
Lab ID: KWG1508799-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:50
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 09/15/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F016.D
Lab ID: KWG1508799-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/11/2015 22:50
Date Quantitated: 09/15/2015 08:12
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		21440	0	0.1210	0.0000			NA
			%Recovery =		NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	11870	46296	0.0750	0.5620			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	3.51	0.0000			
Aroclor 1016 {1}	4.22		20035	0	5.58	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}	5.25		12158	0	2.45	0.0000			
Aroclor 1016 {5}	5.50		12885	0	2.49	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F016.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D			**Vial:**	2
Acqu Date:	09/11/2015 22:50	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	3.90	3.72			
Aroclor 1248 {1}		4.92	0	3963	0.0000	3.18			
Aroclor 1248 {2}	5.25	5.47	12158	17679	2.79	6.86			
Aroclor 1248 {3}	5.69		46004	0	7.16	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}	6.28	7.05	8048	4803	1.74	1.13			
Aroclor 1254			0	0	3.77	4.95			
Aroclor 1254 {1}	6.28	6.72	8048	10116	2.07	2.75			
Aroclor 1254 {2}		7.05	0	4803	0.0000	0.8290			
Aroclor 1254 {3}		7.12	0	21820	0.0000	11.25			
Aroclor 1254 {4}	7.17		8074	0	0.8440	0.0000			
Aroclor 1254 {5}	7.74		53190	0	8.40	0.0000			
Aroclor 1260			0	0	1.32	0.0000			
Aroclor 1260 {1}	7.08		20647	0	2.10	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.10		7994	0	0.4250	0.0000			
Aroclor 1260 {5}	9.90		20540	0	1.45	0.0000			
Aroclor 1262			0	0	1.40	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.10		7994	0	0.3460	0.0000			
Aroclor 1262 {4}	9.90		20540	0	1.18	0.0000			
Aroclor 1262 {5}	11.01		22289	0	2.68	0.0000			
Aroclor 1268			0	0	0.8173	0.0000			
Aroclor 1268 {1}	9.77		41534	0	1.41	0.0000			
Aroclor 1268 {2}	9.90		20540	0	0.8060	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}	11.72		14955	0	0.2390	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Inj Date : 11-SEP-2015 22:50
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	0.000	21440	0	0.121	0.000		100.00
Aroclor 1016	4.222	0.000	20035	0	5.58	0.000	60.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	62.72- 94.08	0.00(T)
	0.000	0.000	0	0	0.000	0.000	184.36- 276.53	0.00(T)
	5.252	0.000	12158	0	2.45	0.000	95.63- 143.44	60.68(T)
	5.499	0.000	12885	0	2.49	0.000	100.19- 150.28	64.31(T)
		Average of Peak Amounts =			3.51	0.000		
Aroclor 1248	0.000	4.922		3963		3.18	60.00- 120.00	100.00(T)
	5.252	5.466	12158	17679	2.79	6.85	17.18- 25.77	0.00(T)
	5.685	0.000	46004		7.16		19.47- 29.21	0.00(T)
	0.000	0.000					161.29- 241.93	0.00(T)
	6.275	7.049	8048	4803	1.74	1.13	0.69- 1.04	0.00(T)
		Average of Peak Amounts =			3.90	3.72		
Aroclor 1254	6.275	6.716	8048	10116	2.07	2.75	60.00- 120.00	100.00(T)
	0.000	7.049		4803		0.825	126.24- 189.36	47.48(T)
	0.000	7.122		21820		11.3	43.97- 65.96	215.70(T)
	7.172	0.000	8074		0.844		1126.72-1690.08	100.32(T)
	7.735	0.000	53190		8.40		281.12- 421.67	660.91(T)
		Average of Peak Amounts =			3.77	4.96		
Aroclor 1260	7.075	0.000	20647	0	2.10	0.000	60.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	71.27- 106.90	0.00(T)
	0.000	0.000	0	0	0.000	0.000	72.68- 109.02	0.00(T)
	9.095	0.000	7994	0	0.425	0.000	169.11- 253.66	38.72(T)
	9.899	0.000	20540	0	1.45	0.000	131.16- 196.75	99.48(T)
		Average of Peak Amounts =			1.33	0.000		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000	60.00- 120.00	0.00(T)
	0.000	0.000	0	0	0.000	0.000	81.49- 122.24	0.00(T)
	9.095	0.000	7994	0	0.346	0.000	185.52- 278.29	0.00(T)
	9.899	0.000	20540	0	1.18	0.000	145.56- 218.35	0.00(T)
	11.012	0.000	22289	0	2.68	0.000	49.79- 74.69	0.00(T)

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Report Date: 15-Sep-2015 08:11

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
			Average of Peak Amounts =		1.40	0.000		
Aroclor 1268	9.765	0.000	41534	0	1.41	0.000	60.00- 120.00	100.00(T)
	9.899	0.000	20540	0	0.806	0.000	261.97- 392.95	49.45(T)
	0.000	0.000	0	0	0.000	0.000	12.86- 19.30	0.00(T)
	11.719	0.000	14955	0	0.239	0.000	30.73- 46.09	36.01(T)
			Average of Peak Amounts =		0.818	0.000		
Decachlorobiphenyl	12.259	13.619	11870	46296	0.0751	0.562		100.00
Aroclors, Total	0.000	0.000	119211	21061	14.7	8.67		0.00

QC Flag Legend

T - Target compound detected outside RT window.

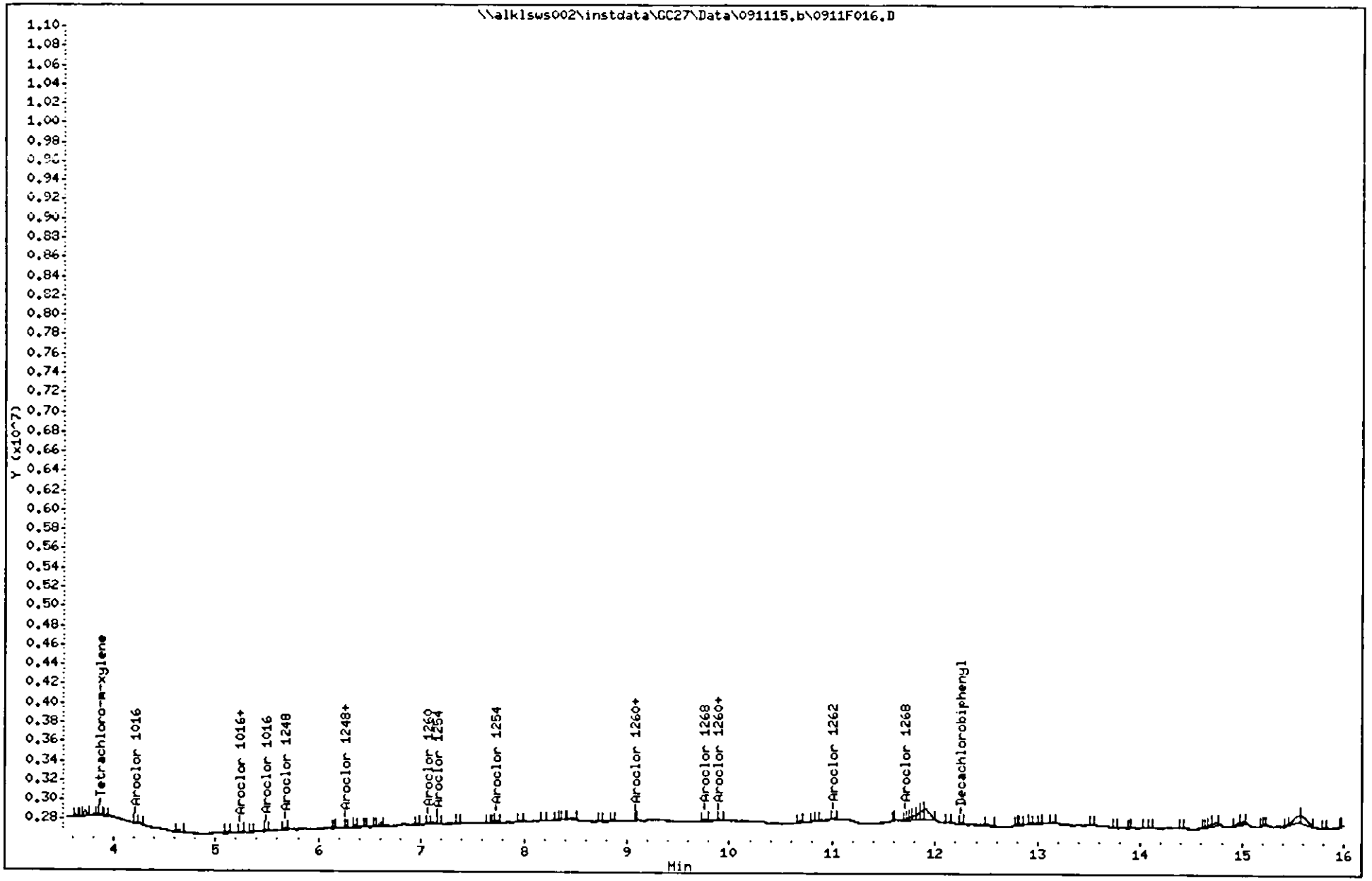
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



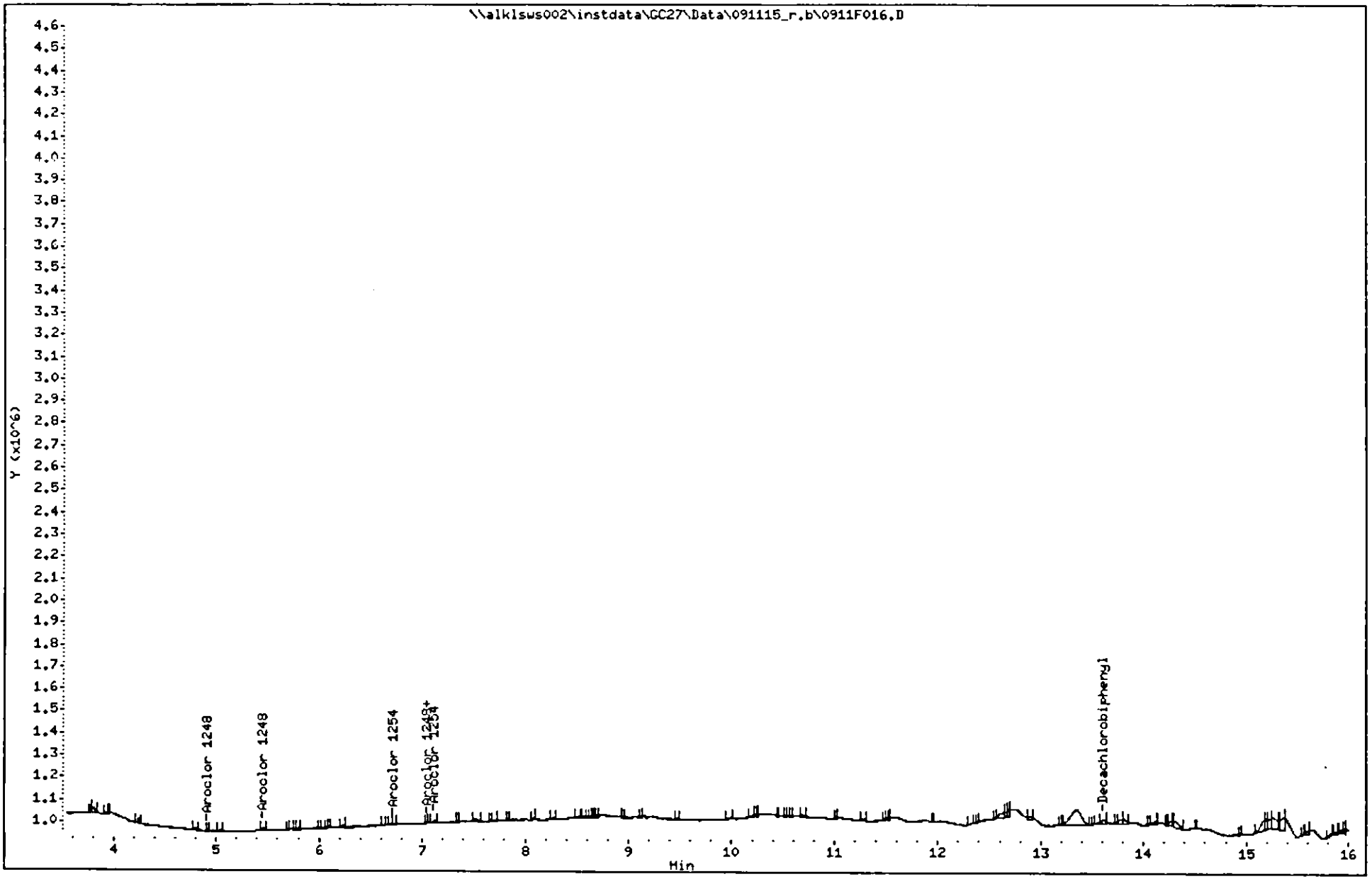
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F016.D
Date : 11-SEP-2015 22:50
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F030.D
Lab ID: KWG1508799-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:16
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: mR 09/15/15

Secondary Review:

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F030.D	**Date Acquired:**	09/12/2015 04:16
Lab ID:	KWG1508799-5	**Date Quantitated:**	09/15/2015 08:13
RunType:	CCV	**Batch ID:**	KWG1508799
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: [illegible] 09/15/15

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F030.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D			**Vial:**	1
Acqu Date:	09/12/2015 04:16	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	10375746	4552348	58.61	57.88			NA
				%Recovery =	NA	NA	Limits =	44-130	
Decachlorobiphenyl	12.26	13.62	8513471	4381836	53.84	53.21			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	469.65	470.89			
Aroclor 1016 {1}	4.24	4.62	1869390	901564	520.87	490.48			
Aroclor 1016 {2}	4.74	4.96	1465598	1208847	489.17	496.53			
Aroclor 1016 {3}	4.94	5.59	4307926	1353660	435.54	451.34			
Aroclor 1016 {4}	5.21	5.92	2234569	1008947	450.40	459.65			
Aroclor 1016 {5}	5.50	6.12	2341136	984108	452.27	456.45			
Aroclor 1260			0	0	498.64	516.10			
Aroclor 1260 {1}	7.08	7.84	4535536	1071384m	460.43	485.69			
Aroclor 1260 {2}	8.10	9.27	4040571	1958562m	497.99	518.16			
Aroclor 1260 {3}	8.65	9.72	4120709	1876166m	500.63	519.88			
Aroclor 1260 {4}	9.11	10.40	9587291	4574126m	510.00	529.75			
Aroclor 1260 {5}	9.89	11.03	7436293	2943558m	524.17	527.02			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D
Inj Date : 12-SEP-2015 04:16
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	10375746	4552348	58.6	57.5		100.00
Aroclor 1016	4.238	4.622	1869390	901564	521	490	60.00- 120.00	100.00
	4.742	4.955	1465598	1208847	489	497	62.72- 94.08	78.40
	4.938	5.592	4307926	1353660	436	451	184.36- 276.53	230.45
	5.208	5.922	2234569	1008947	450	460	95.63- 143.44	119.53
	5.502	6.119	2341136	984108	452	456	100.19- 150.28	125.24
		Average of Peak Amounts =			470	471		
Aroclor 1260	7.075	7.835	4535536	1071384	460	486	60.00- 120.00	100.00
	8.095	9.269	4040571	1958562	498	516	71.27- 106.90	89.09
	8.645	9.719	4120709	1876166	501	520	72.68- 109.02	90.85
	9.112	10.395	9587291	4574126	510	530	169.11- 253.66	211.38
	9.892	11.032	7436293	2943558	524	527	131.16- 196.75	163.96
		Average of Peak Amounts =			499	516		
Decachlorobiphenyl	12.262	13.622	8513471	4381836	53.8	53.2		100.00

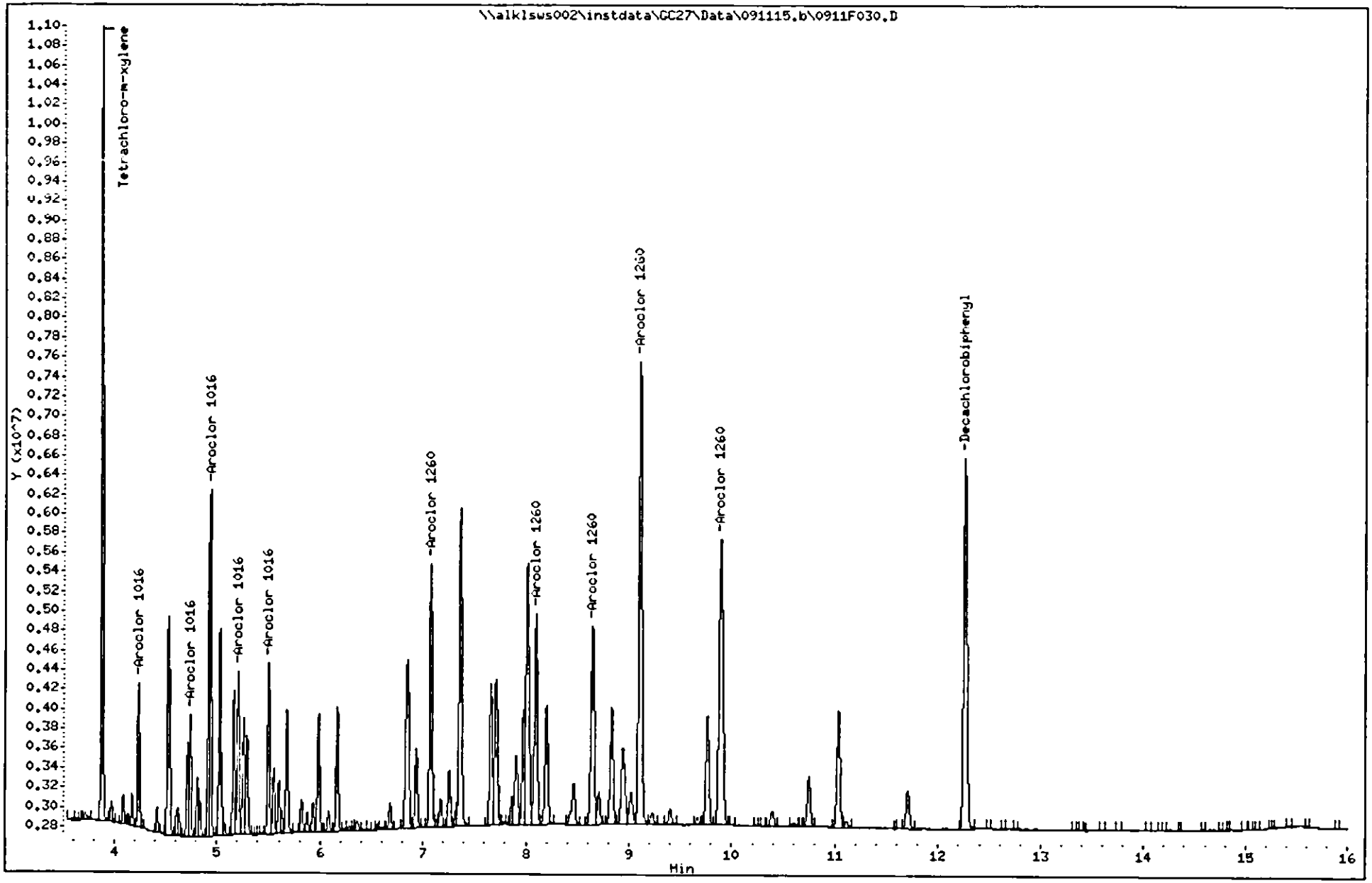
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32

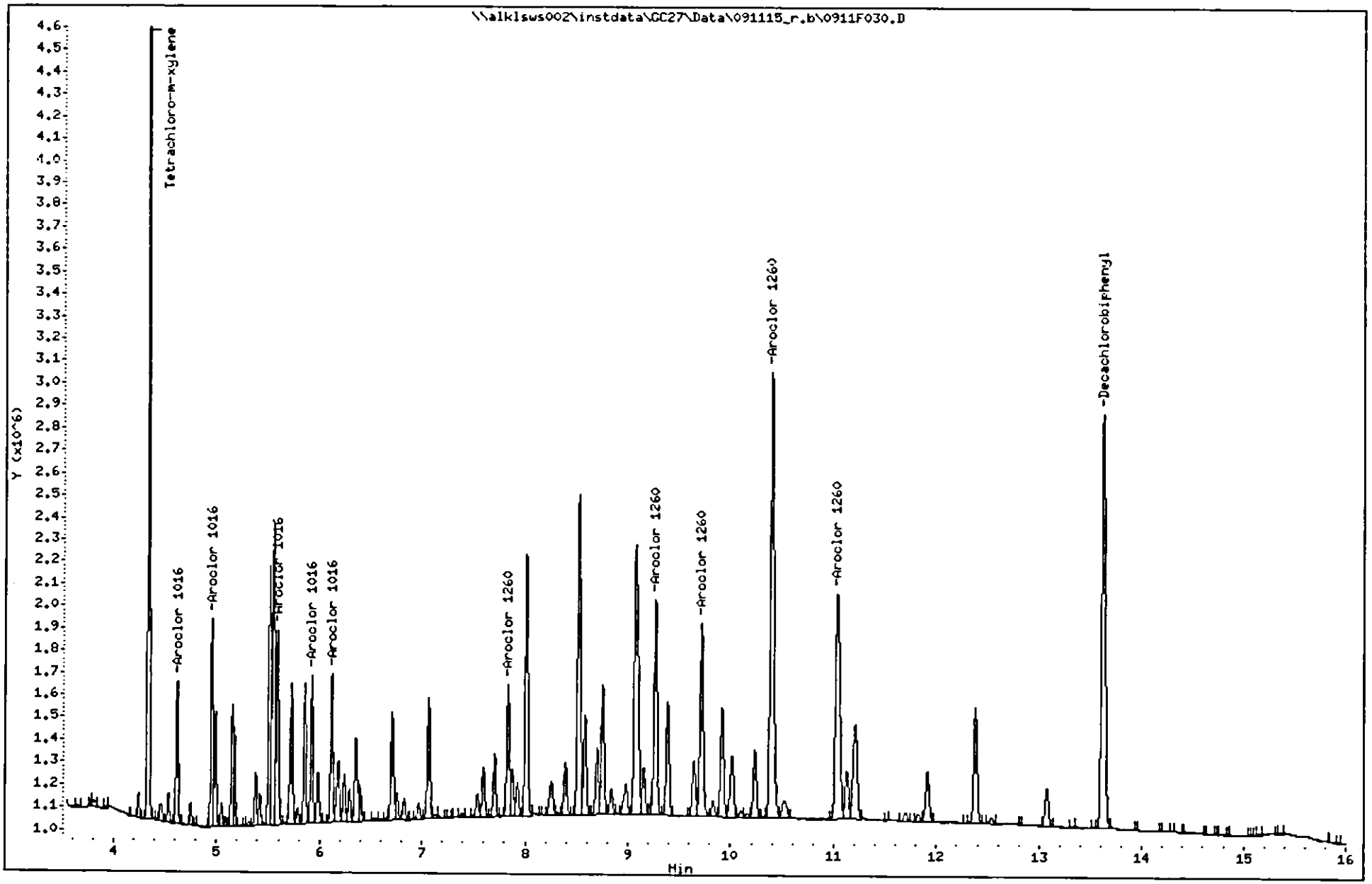


Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F030.D
Date : 12-SEP-2015 04:16
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:11
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOU ok

Primary Review: 09/15/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091115_R.B\0911F031.D
Lab ID: KWG1508799-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/12/2015 04:39
Date Quantitated: 09/15/2015 08:13
Batch ID: KWG1508799
Analysis Method: 8082A
MethodJoinID: MJ1536

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TQV OK
	Aroclor 1260	22.7	NA	20	TQV Dual

Primary Review: MR 09/15/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/15/2015

Analysis Lot:	KWG1508799	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1536
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	24861	3851	0.1400	0.0490			NA
			%Recovery =		NA	NA	**Limits =**	44-130	
Decachlorobiphenyl	0.00	13.63	0	7909		0.0960			NA
			%Recovery =		NA	NA	**Limits =**	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	1.91			
Aroclor 1242 {1}		4.97	0	4296	0.0000	2.37			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091115.B\0911F031.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D			**Vial:**	2
Acqu Date:	09/12/2015 04:39	**Quant Date:**	09/15/2015 08:11	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508799-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}		5.54	0	4470	0.0000	1.36			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}		6.80	0	4079	0.0000	2.02			
Aroclor 1248			0	0	0.0000	2.61			
Aroclor 1248 {1}		4.97	0	4296	0.0000	3.45			
Aroclor 1248 {2}		5.54	0	4470	0.0000	1.73			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}		7.05	0	11280	0.0000	2.64			
Aroclor 1254			0	0	0.0000	5.45			
Aroclor 1254 {1}		6.73	0	7027	0.0000	1.91			
Aroclor 1254 {2}		7.05	0	11280	0.0000	1.95			
Aroclor 1254 {3}		7.11	0	30526	0.0000	15.76			
Aroclor 1254 {4}		8.01	0	4971	0.0000	2.19			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0	0.0000	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}			0	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}			0	0	0.0000	0.0000			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.2757			
Aroclor 1268 {1}		11.02	0	3497	0.0000	0.2700			
Aroclor 1268 {2}		11.25	0	3424	0.0000	0.3130			
Aroclor 1268 {3}		11.70	0	3543	0.0000	0.3710			
Aroclor 1268 {4}		13.10	0	4252	0.0000	0.1490			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Report Date: 15-Sep-2015 08:11

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Inj Date : 12-SEP-2015 04:39
Sample Info: IB
Misc Info :
Cal Date : 14-SEP-2015 11:15
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	24861	3851	0.140	0.0490		100.00
Aroclor 1242	0.000	4.967	0	4296	0.000	2.36		
	0.000	5.541	0	4470	0.000	1.36		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	6.804	0	4079	0.000	2.02		
		Average of Peak Amounts =			0.000	1.91		
Aroclor 1248	0.000	4.967	0	4296	0.000	3.45		
	0.000	5.541	0	4470	0.000	1.73		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.047	0	11280	0.000	2.64		
		Average of Peak Amounts =			0.000	2.61		
Aroclor 1254	0.000	6.727	0	7027	0.000	1.91		
	0.000	7.047	0	11280	0.000	1.95		
	0.000	7.114	0	30526	0.000	15.8		
	0.000	8.007	0	4971	0.000	2.15		
	0.000	0.000	0	0	0.000	0.000		
		Average of Peak Amounts =			0.000	5.46		
Aroclor 1268	0.000	11.024	0	3497	0.000	0.270		
	0.000	11.247	0	3424	0.000	0.313		
	0.000	11.701	0	3543	0.000	0.371		
	0.000	13.097	0	4252	0.000	0.149		
		Average of Peak Amounts =			0.000	0.276		
Decachlorobiphenyl	0.000	13.627	0	7909	0.000	0.0960		
Aroclors, Total	0.000	0.000	0	28093	0.000	10.3		

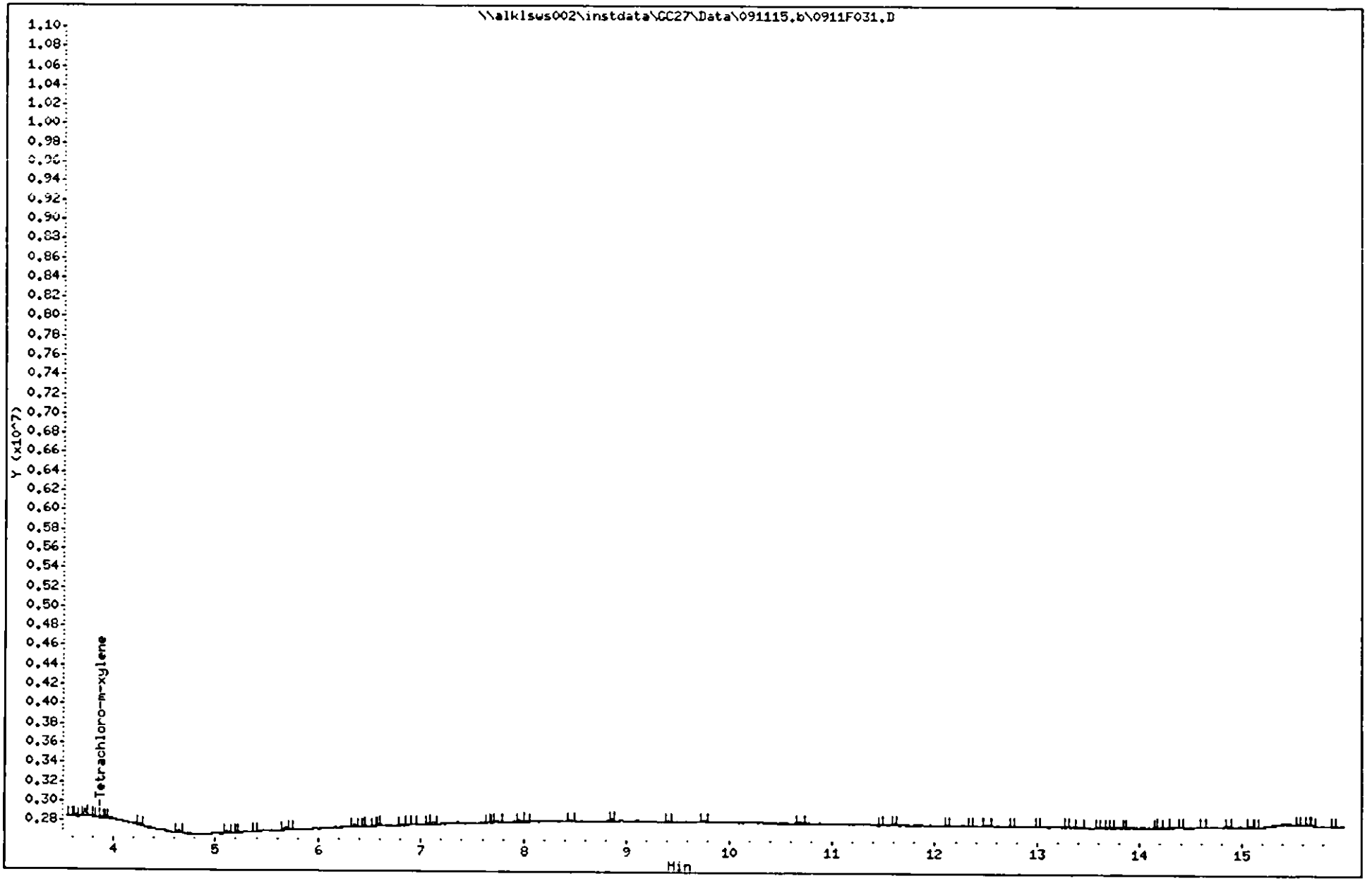
Data File: \\alklsws002\instdata\GC27\Data\091115.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



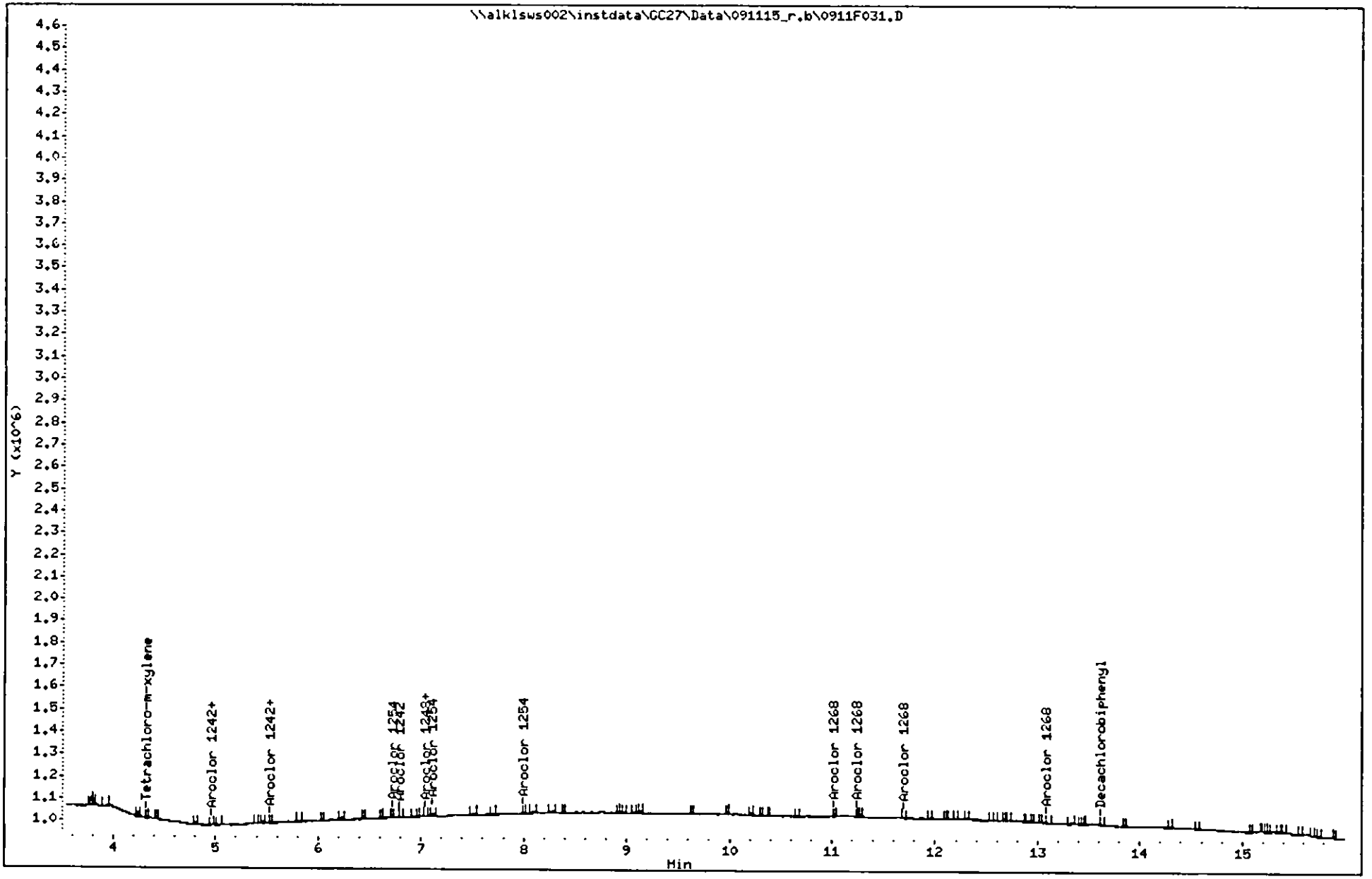
Data File: \\alklsws002\instdata\GC27\Data\091115_r.b\0911F031.D
Date : 12-SEP-2015 04:39
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\091515.S
Comment: PCB Aroclors by EPA 8082A
Operator: MR
Data Path: C:\GC27\DATA\091515\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

	Line	Type	Vial	DataFile	Method	Sample Name
	1	IB	100	0915F001	PCB_REG	PRIMER
	2	IB	100	0915F002	PCB_REG	PRIMER
ok, ok	3	CCV	1	0915F003	PCB_REG	1660 @ 500ppb PCB6-74E
	4	IB	2	0915F004	PCB_REG	IB
	5	SMPL	6	0915F005	PCB_REG	K1509667-001 10X
	6	SMPL	7	0915F006	PCB_REG	K1508844-008 10X
	7	SMPL	8	0915F007	PCB_REG	K1508844-009 10X
	8	SMPL	9	0915F008	PCB_REG	K1508844-002 50X
ok, ok	9	CCV	1	0915F009	PCB_REG	1660 @ 500ppb PCB6-74E
	10	IB	2	0915F010	PCB_REG	IB
	11	SMPL	10	0915F011	PCB_REG	K1509159-001
	12	MS	11	0915F012	PCB_REG	K1509159-001MS
	13	DMS	12	0915F013	PCB_REG	K1509159-001DMS
	14	SMPL	13	0915F014	PCB_REG	K1509159-002
	15	SMPL	14	0915F015	PCB_REG	K1509159-003
	16	SMPL	15	0915F016	PCB_REG	K1509159-004
	17	SMPL	16	0915F017	PCB_REG	K1509159-005
	18	SMPL	17	0915F018	PCB_REG	K1509159-006
	19	SMPL	18	0915F019	PCB_REG	K1509159-007
	20	SMPL	19	0915F020	PCB_REG	K1509159-008
ok, ok	21	CCV	1	0915F021	PCB_REG	1660 @ 500ppb PCB6-74E
	22	IB	2	0915F022	PCB_REG	IB
	23	SMPL	20	0915F023	PCB_REG	K1509159-009
	24	SMPL	21	0915F024	PCB_REG	K1509159-010
	25	SMPL	22	0915F025	PCB_REG	K1509159-011
	26	SMPL	23	0915F026	PCB_REG	KWG1508475-6LCS
	27	SMPL	24	0915F027	PCB_REG	KWG1508475-67MB
ok, ok	28	CCV	99	0915F028	PCB_REG	1660 @ 500ppb PCB6-74E
	29	IB	100	0915F029	PCB_REG	IB
	30	SMPL	25	0915F030	PCB_REG	K1509159-~~025~~ 012 MC 09/21/15
ok, ok	31	CCV	99	0915F031	PCB_REG	1660 @ 500ppb PCB6-74E
	32	IB	100	0915F032	PCB_REG	IB

Run #462464
Col #13624
KWG 1509253

Last Modified: Tue Sep 15 17:39:54 2015

Page: 1

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F003.D
Lab ID: KWG1509033-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 15:25
Date Quantitated: 09/21/2015 14:37
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/22/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F003.D
Lab ID: KWG1509033-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 15:25
Date Quantitated: 09/21/2015 14:38
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	[illegible]

Primary Review: MK 09/22/15

Secondary Review: [illegible]

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F003.D			**Vial:**	1
Acqu Date:	09/15/2015 15:25	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9725500	3630079	54.94	46.15			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.62	8353323	4183481	52.82	50.80			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	475.99	417.59			
Aroclor 1016 {1}	4.24	4.62	1786705	788816	497.83	429.15			
Aroclor 1016 {2}	4.74	4.95	1441546	1036551	481.14	425.76			
Aroclor 1016 {3}	4.94	5.59	4792454	1214323	484.52	404.83			
Aroclor 1016 {4}	5.21	5.92	2282982	911809	460.16	415.40			
Aroclor 1016 {5}	5.50	6.12	2362076	889913	456.31	412.75			
Aroclor 1260			0	0	500.28	491.14			
Aroclor 1260 {1}	7.08	7.83	4611317	1009086	468.13	457.45			
Aroclor 1260 {2}	8.09	9.27	4069970	1854603	501.61	490.66			
Aroclor 1260 {3}	8.65	9.72	4147905	1779300	503.94	493.04			
Aroclor 1260 {4}	9.11	10.39	9558900	4295968	508.49	497.54			
Aroclor 1260 {5}	9.89	11.03	7366038	2887616	519.22	517.00			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F003.D
Report Date: 21-Sep-2015 14:37

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F003.D
Inj Date : 15-SEP-2015 15:25
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 16-SEP-2015 08:57
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	9725500	3630079	54.9	46.2		100.00
Aroclor 1016	4.240	4.620	1786705	788816	498	425	80.00- 120.00	100.00
	4.740	4.954	1441546	1036551	481	426	62.96- 94.44	80.68
	4.937	5.587	4792454	1214323	485	405	177.85- 266.77	268.23
	5.207	5.920	2282982	911809	460	415	98.14- 147.22	127.78
	5.500	6.117	2362076	889913	456	413	100.29- 150.43	132.20
		Average of Peak Amounts =			476	418		
Aroclor 1260	7.077	7.830	4611317	1009086	468	457	80.00- 120.00	100.00
	8.094	9.267	4069970	1854603	502	491	70.17- 105.25	88.26
	8.647	9.717	4147905	1779300	504	493	72.11- 108.17	89.95
	9.110	10.394	9558900	4295968	508	496	164.70- 247.05	207.29
	9.894	11.027	7366038	2887616	519	517	128.09- 192.14	159.74
		Average of Peak Amounts =			500	491		
Decachlorobiphenyl	12.264	13.624	8353323	4183481	52.8	50.8		100.00

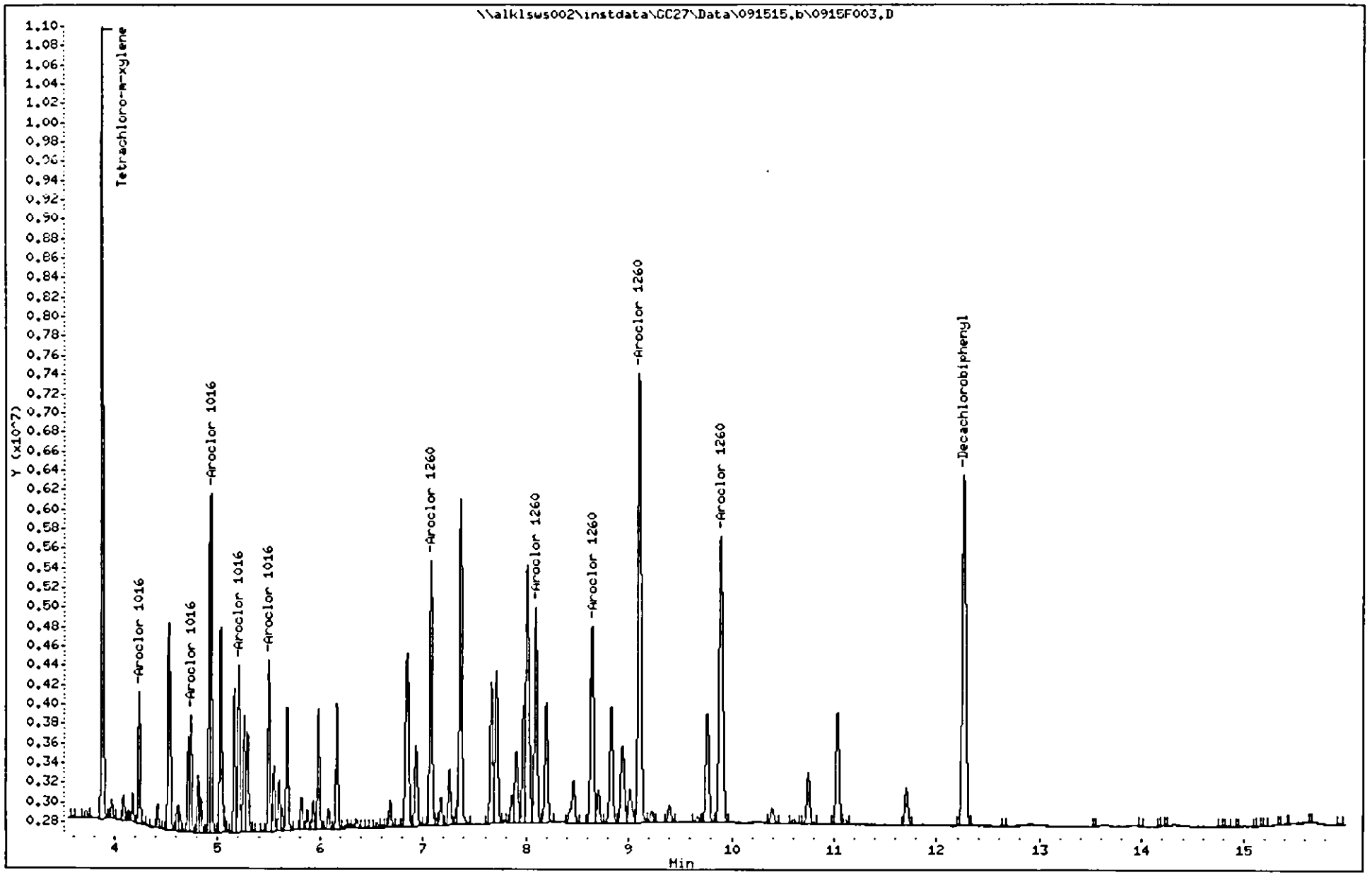
Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F003.D
Date : 15-SEP-2015 15:25
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



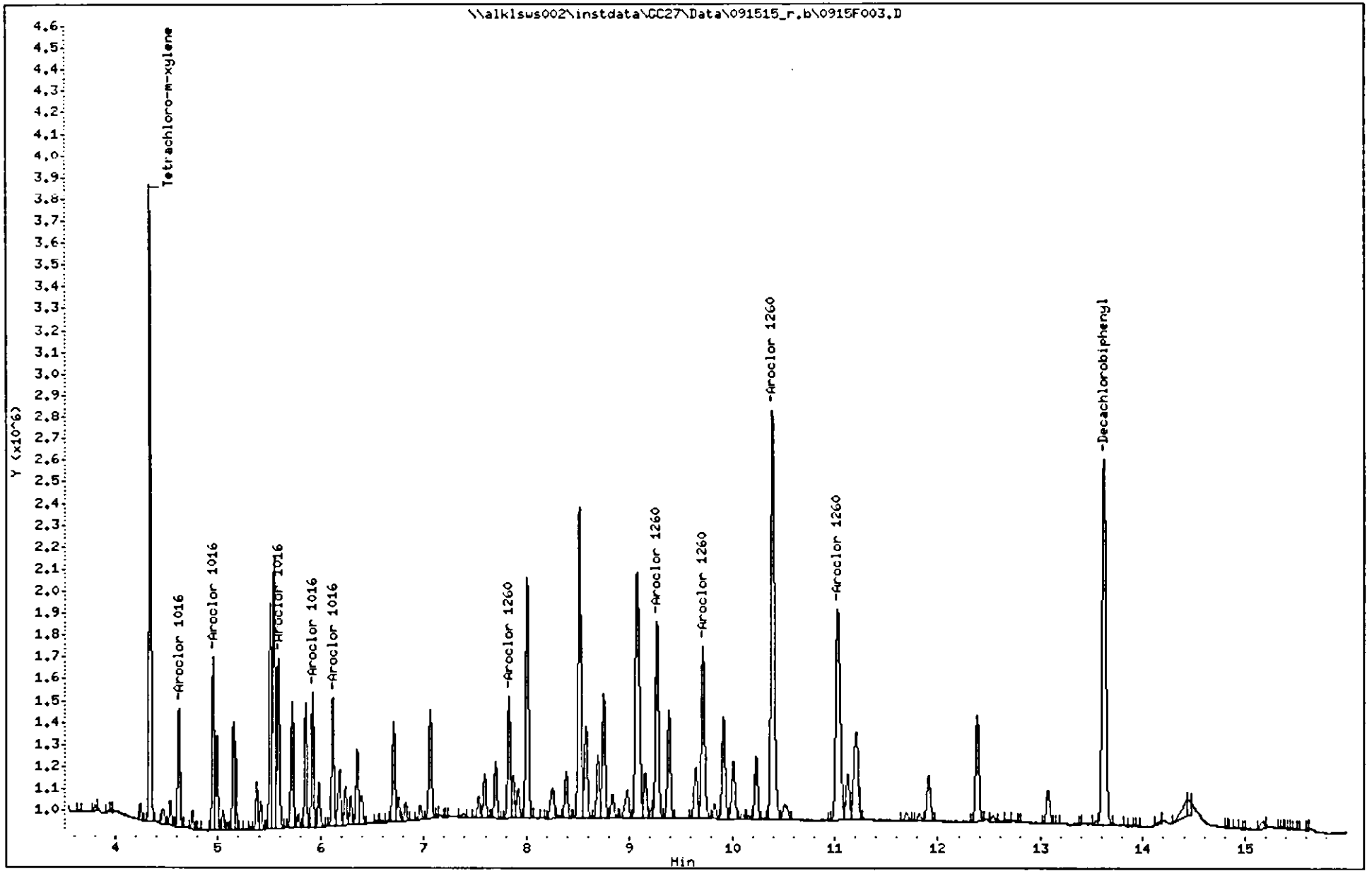
Data File: \\alklsus002\instdata\GC27\Data\091515_r.b\0915F003.D
Date : 15-SEP-2015 15:25
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F004.D	**Date Acquired:**	09/15/2015 15:49
Lab ID:	KWG1509033-2	**Date Quantitated:**	09/21/2015 14:37
RunType:	IB	**Batch ID:**	KWG1509033
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: mm 09/21/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F004.D
Lab ID: KWG1509033-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 15:49
Date Quantitated: 09/21/2015 14:38
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	Tau X
	Aroclor 1260	22.7	NA	20	Tau Dual

Primary Review: mr 09/22/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F004.D			**Vial:**	2
Acqu Date:	09/15/2015 15:49	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**	**Report Group:**
Analysis Method:	8082A	**Prep Method:**	
Prep Ref:		**Prep Date:**	

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.87		25564	0	0.1440	0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	0.00	13.67	0	3622		0.0440			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0d	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
& Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091515.B\0915F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F004.D			**Vial:**	2
Acqu Date:	09/15/2015 15:49	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000			
Aroclor 1242 {3}			0	0d	0.0000	0.0000			
Aroclor 1242 {4}			0	0d	0.0000	0.0000			
Aroclor 1242 {5}			0	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0	0	0.0000	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}			0	0	0.0000	0.0000			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F004.D
Report Date: 21-Sep-2015 14:37

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F004.D
Inj Date : 15-SEP-2015 15:49
Sample Info: IB
Misc Info :
Cal Date : 16-SEP-2015 08:57
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.867	0.000	25564	0	0.144	0.000		100.00
Decachlorobiphenyl	0.000	13.670	0	3622	0.000	0.0440		

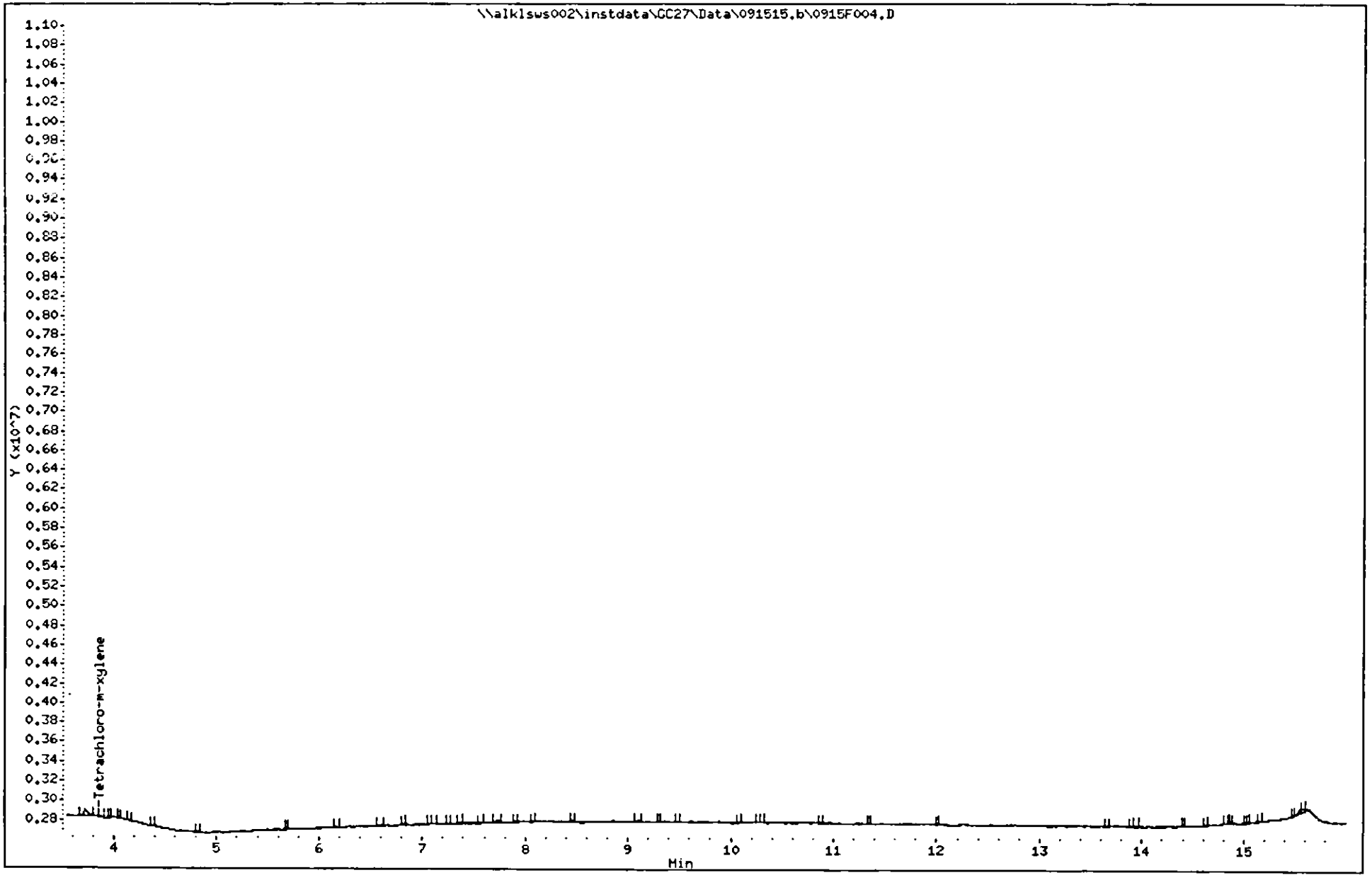
Data File: \\alklsus002\instdata\GC27\Data\091515.b\0915F004.D
Date : 15-SEP-2015 15:49
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



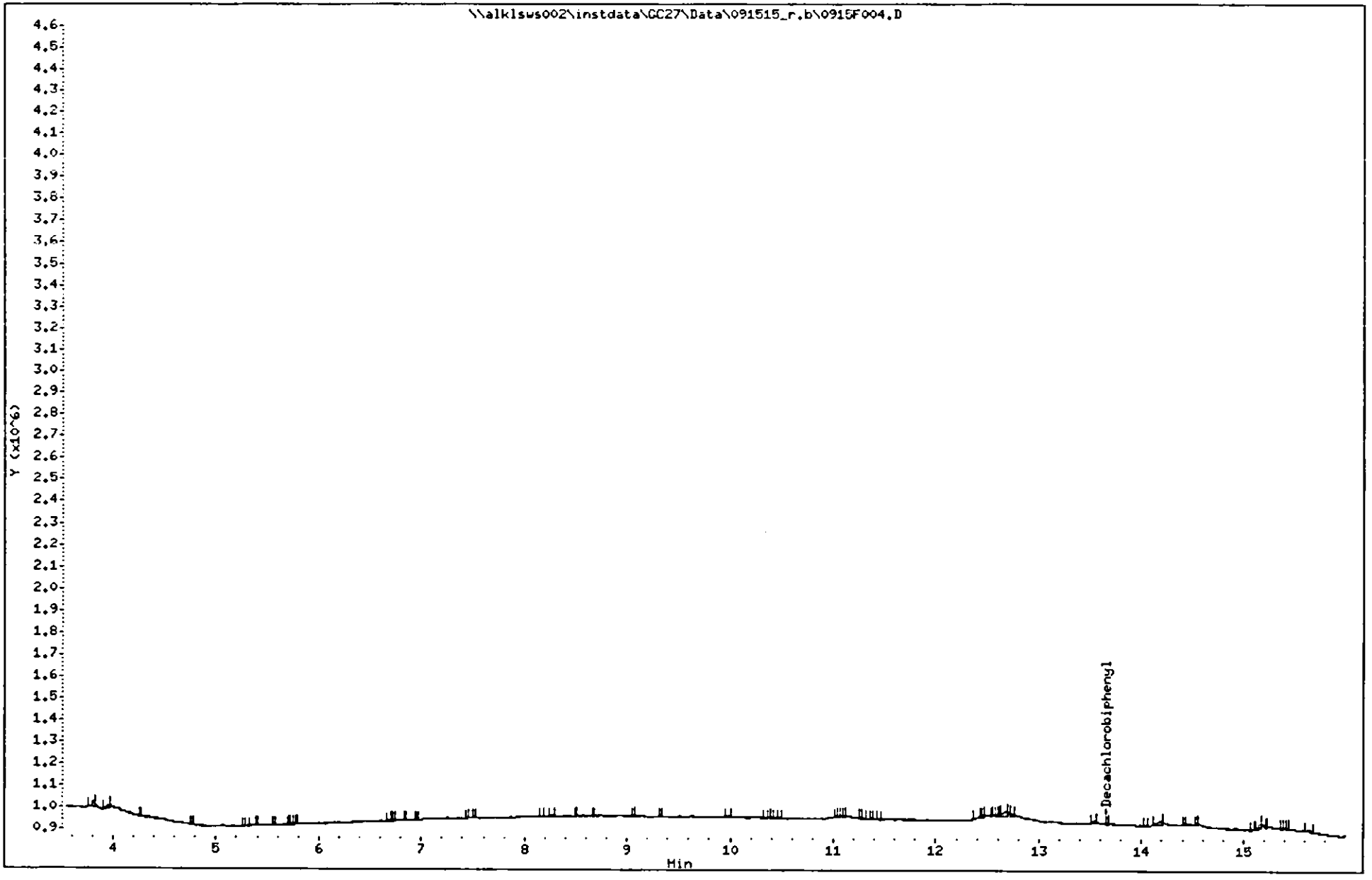
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F004.D
Date : 15-SEP-2015 15:49
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F009.D
Lab ID: KWG1509033-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 17:48
Date Quantitated: 09/21/2015 14:37
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/22/15

Secondary Review: _____

Printed: 09/21/2015 15:05:27
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F009.D
Lab ID: KWG1509033-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 17:48
Date Quantitated: 09/21/2015 14:39
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	TCU Dual

Primary Review: MMR 09/22/15

Secondary Review: _____

Printed: 09/21/2015 15:05:31
u:\Stealth\Crystal rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F009.D			**Vial:**	1
Acqu Date:	09/15/2015 17:48	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9484668	3794486	53.58	48.24				NA
				%Recovery =	NA	NA	Limits =	33-120		
Decachlorobiphenyl	12.27	13.63	8073062	4137002	51.05	50.24				NA
				%Recovery =	NA	NA	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	453.39	417.46			
Aroclor 1016 {1}	4.24	4.62	1713588m	794346	477.46	432.15			
Aroclor 1016 {2}	4.74	4.96	1405590m	1054633	469.14	433.19			
Aroclor 1016 {3}	4.94	5.59	4402559m	1206671	445.10	402.33			
Aroclor 1016 {4}	5.21	5.92	2189025m	899680	441.22	409.87			
Aroclor 1016 {5}	5.50	6.12	2246699m	883395	434.03	409.74			
Aroclor 1260			0	0	476.28	479.34			
Aroclor 1260 {1}	7.08	7.84	4369829	997892	443.61	452.33			
Aroclor 1260 {2}	8.10	9.27	3873557	1816748	477.40	480.64			
Aroclor 1260 {3}	8.65	9.72	3940611	1736358	478.75	481.14			
Aroclor 1260 {4}	9.12	10.40	9076265	4197400	482.81	486.12			
Aroclor 1260 {5}	9.90	11.03	7076416	2772627	498.81	496.41			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
\# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F009.D
Report Date: 21-Sep-2015 14:37

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F009.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F009.D
Inj Date : 15-SEP-2015 17:48
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 16-SEP-2015 08:57
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.883	4.340	9484668	3794486	53.6	48.2		100.00
Aroclor 1016	4.240	4.623	1713588	794346	477	432	80.00- 120.00	100.00(M)
	4.743	4.957	1405590	1054633	469	433	62.96- 94.44	82.03(M)
	4.940	5.590	4402559	1206671	445	402	177.85- 266.77	256.92(M)
	5.213	5.923	2189025	899680	441	410	98.14- 147.22	127.75(M)
	5.503	6.120	2246699	883395	434	410	100.29- 150.43	131.11(M)
		Average of Peak Amounts =			453	417		
Aroclor 1260	7.080	7.837	4369829	997892	444	452	80.00- 120.00	100.00
	8.100	9.273	3873557	1816748	477	481	70.17- 105.25	88.64
	8.653	9.723	3940611	1736358	479	481	72.11- 108.17	90.18
	9.117	10.400	9076265	4197400	483	486	164.70- 247.05	207.70
	9.900	11.033	7076416	2772627	499	496	128.09- 192.14	161.94
		Average of Peak Amounts =			476	479		
Decachlorobiphenyl	12.270	13.627	8073062	4137002	51.1	50.2		100.00

QC Flag Legend

M - Compound response manually integrated.

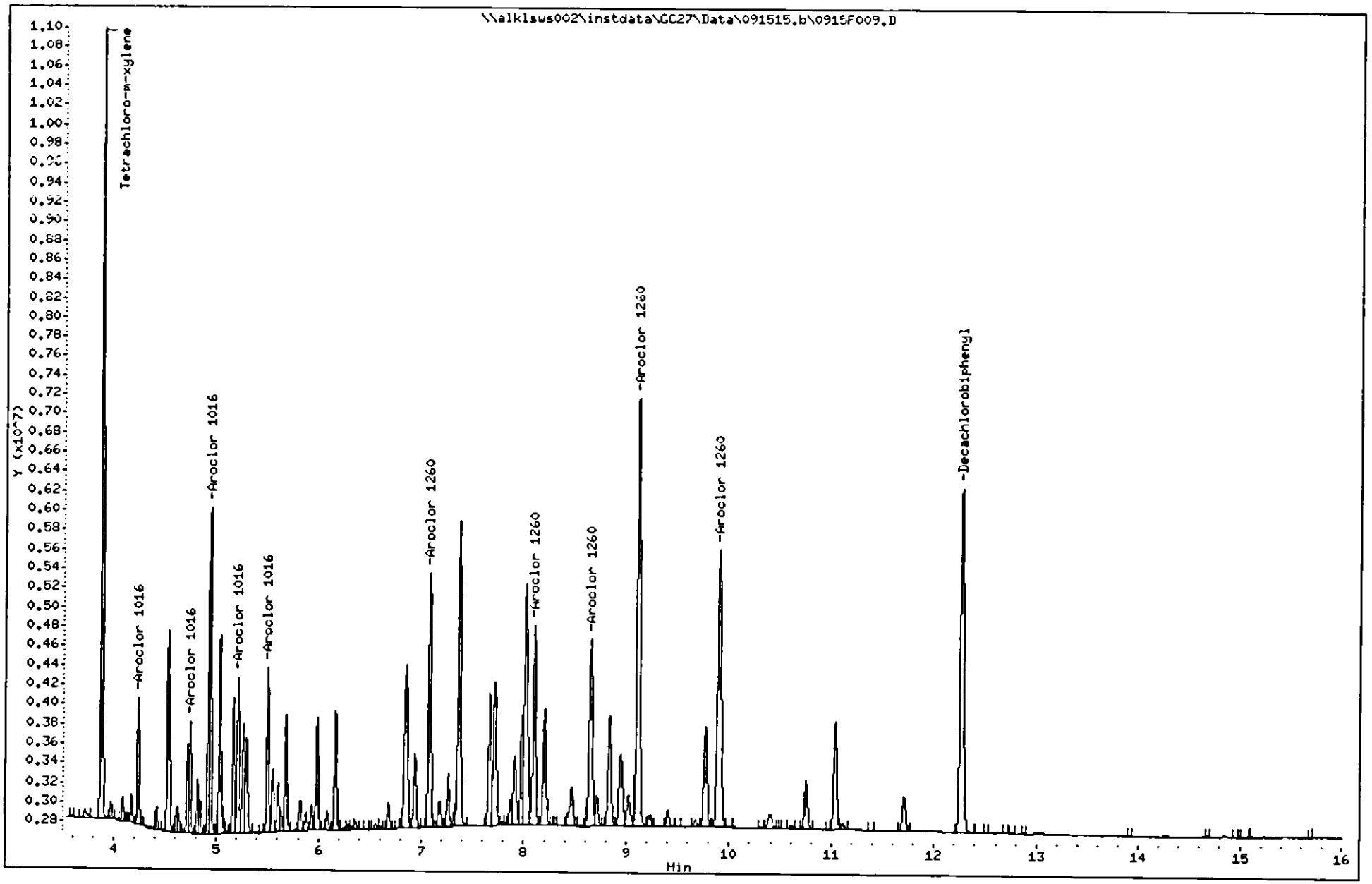
Data File: \\alklsus002\instdata\GC27\Data\091515.b\0915F009.D
Date : 15-SEP-2015 17:48
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



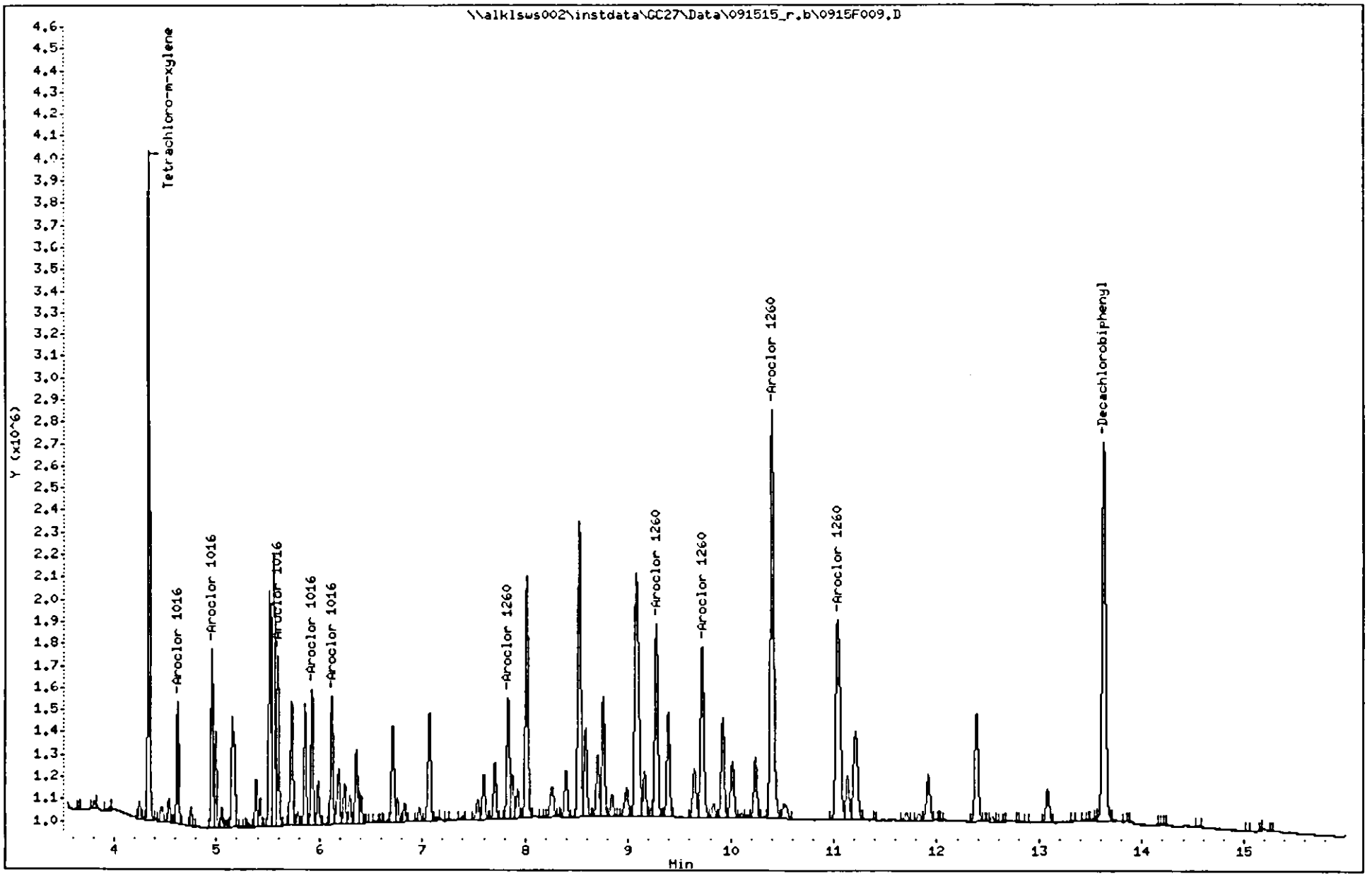
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F009.D
Date : 15-SEP-2015 17:48
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

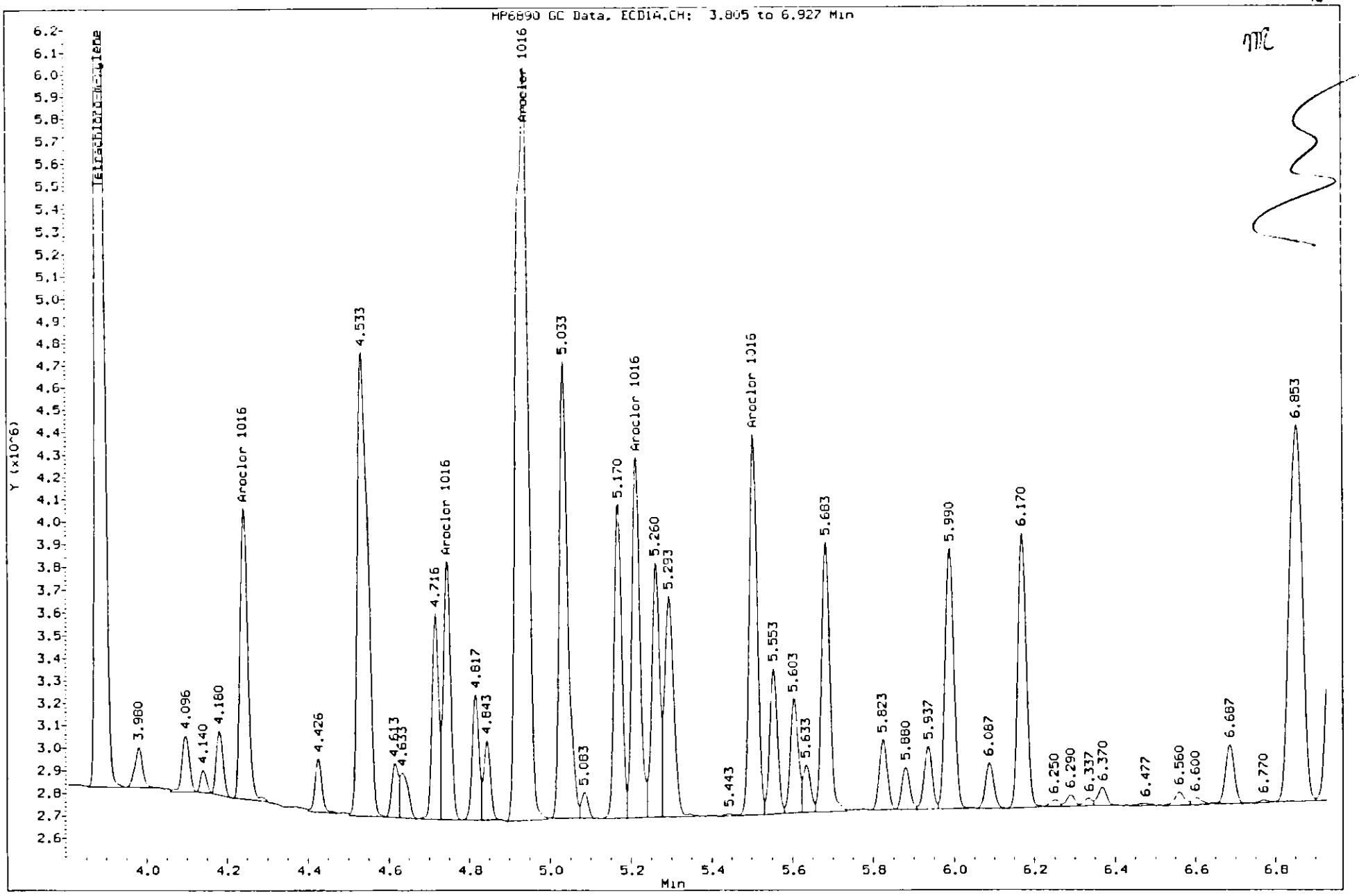
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F009.D
Injection Date: 15-SEP-2015 17:48
Instrument: GC27.i
Client Sample ID:

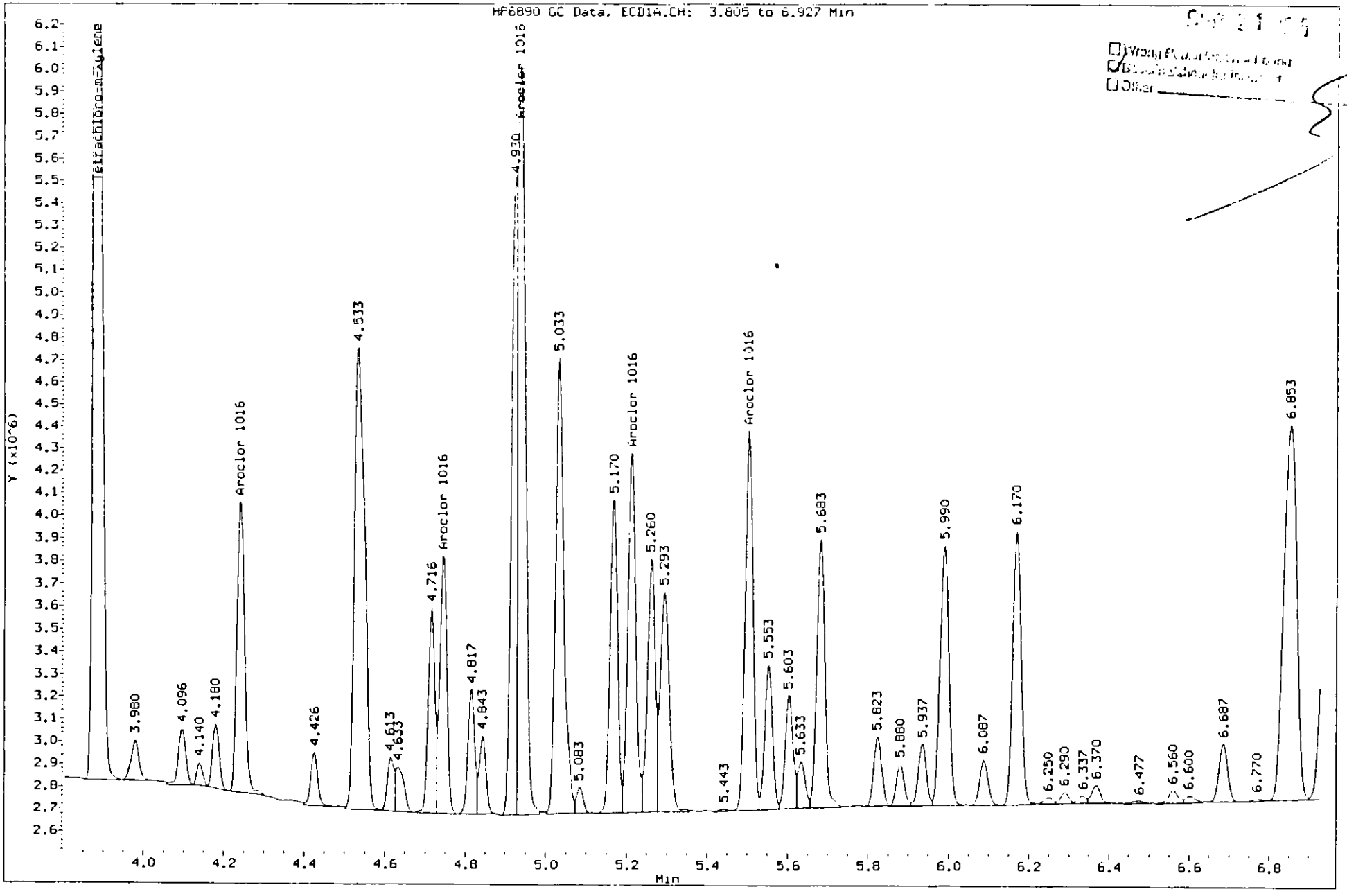
Before

SEP 2 1 2015



Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F009.D
Injection Date: 15-SEP-2015 17:48
Instrument: GC27.i
Client Sample ID:

After
Initials



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Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F010.D
Lab ID: KWG1509033-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 18:12
Date Quantitated: 09/21/2015 14:37
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MRC 09/22/15

Secondary Review:

Printed: 09/21/2015 15:05:35
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F010.D
Lab ID: KWG1509033-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 18:12
Date Quantitated: 09/21/2015 14:39
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	JCV ok
	Aroclor 1260	22.7	NA	20	JCV ok

Primary Review: MR 09/22/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F010.D			**Vial:**	2
Acqu Date:	09/15/2015 18:12	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88		14517	0	0.0820	0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.64	31727	5934	0.2010	0.0720			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0d	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
a Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091515.B\0915F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F010.D			**Vial:**	2
Acqu Date:	09/15/2015 18:12	**Quant Date:**	09/21/2015 14:37	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0d	0.0000	0.0000			
Aroclor 1242 {3}			0	0d	0.0000	0.0000			
Aroclor 1242 {4}			0	0d	0.0000	0.0000			
Aroclor 1242 {5}			0	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	4.64	3.70			
Aroclor 1254 {1}	6.25	6.72	10447	13586	2.69	3.70			
Aroclor 1254 {2}	6.69	7.06	10898	5822	1.50	1.01			
Aroclor 1254 {3}	6.82	7.12	18974	13194	1.30	6.81			
Aroclor 1254 {4}	7.13	8.01	38257	7445	4.00	3.29			
Aroclor 1254 {5}	7.74		86727	0	13.70	0.0000			
Aroclors, Total			80640	23333	7.38	6.04	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	2.74	2.34			
Aroclor 1262 {1}	8.10		39630	0	2.94	0.0000			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.12	10.40	45990	10068	1.99	1.04			
Aroclor 1262 {4}	9.90	11.06	57119	17949	3.29	2.68			
Aroclor 1262 {5}		12.37	0	11949	0.0000	3.28			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F010.D
Report Date: 21-Sep-2015 14:37

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F010.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F010.D
Inj Date : 15-SEP-2015 18:12
Sample Info: IB
Misc Info :
Cal Date : 16-SEP-2015 08:57
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.875	0.000	14517	0	0.0820	0.000		100.00
Aroclor 1254	6.252	6.715	10447	13586	2.69	3.70	60.00- 120.00	100.00
	6.685	7.058	10898	5822	1.50	1.00	1017.66-1526.49	104.32
	6.818	7.122	18974	13194	1.30	6.81	9646.23-14469.35	181.62
	7.125	8.012	38257	7445	4.00	3.29	1125.72-1690.08	366.20
	7.742	0.000	86727		13.7		281.12- 421.67	830.16
		Average of Peak Amounts =			4.64	3.70		
Aroclor 1262	8.098	0.000	39630		2.94		80.00- 120.00	100.00(T)
	0.000	0.000					56.43- 84.64	0.00(T)
	9.115	10.398	45990	10068	1.99	1.04	185.52- 278.29	116.05(T)
	9.898	11.058	57119	17949	3.29	2.68	145.56- 218.35	144.13(T)
	0.000	12.372		11949		3.28	52.03- 78.05	0.00(T)
		Average of Peak Amounts =			2.74	2.33		
Decachlorobiphenyl	12.258	13.638	31727	5934	0.201	0.0721		100.00
Aroclors, Total	0.000	0.000	80640	23333	7.38	6.04		0.00

QC Flag Legend

T - Target compound detected outside RT window.

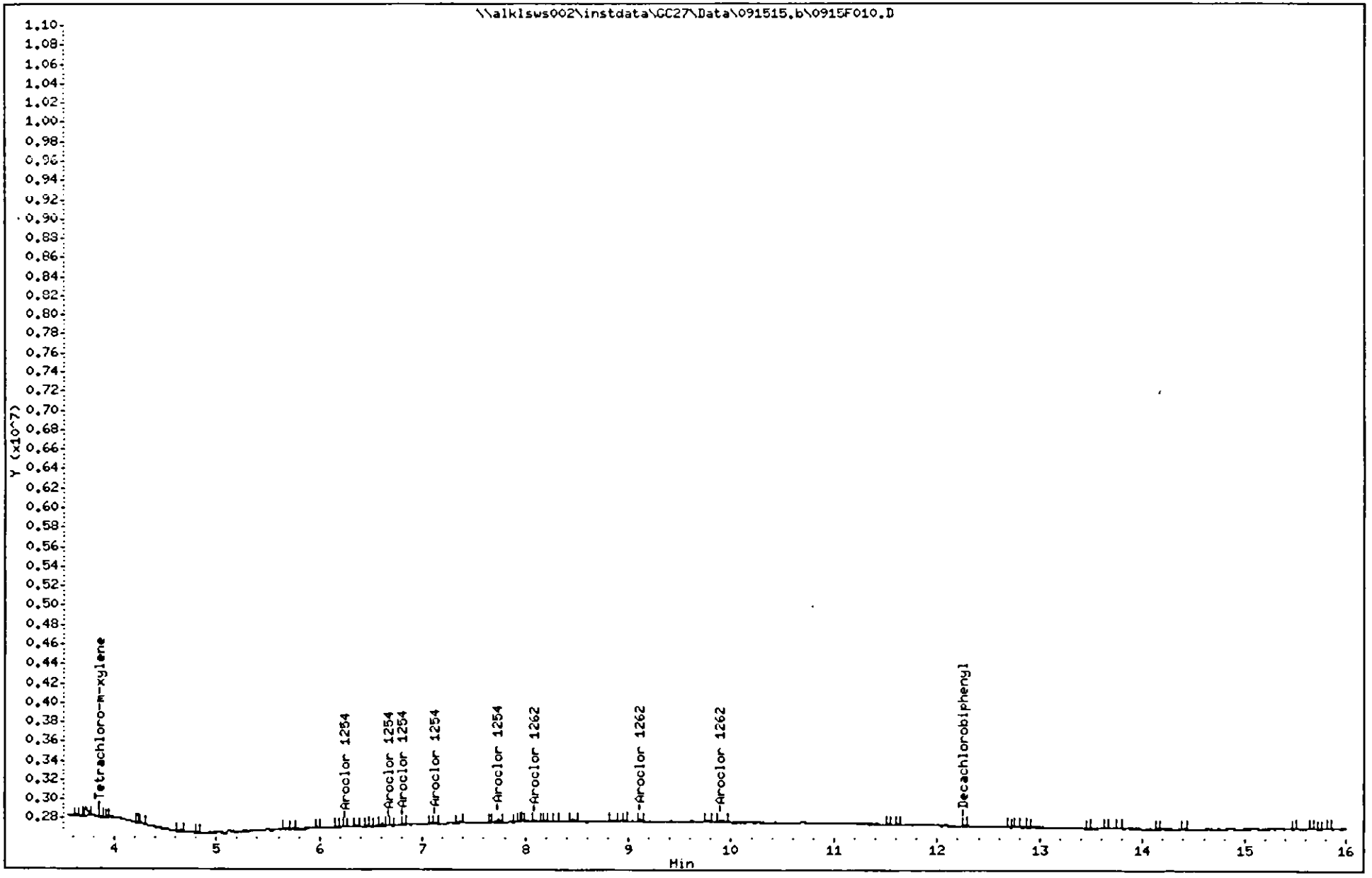
Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F010.D
Date : 15-SEP-2015 18:12
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



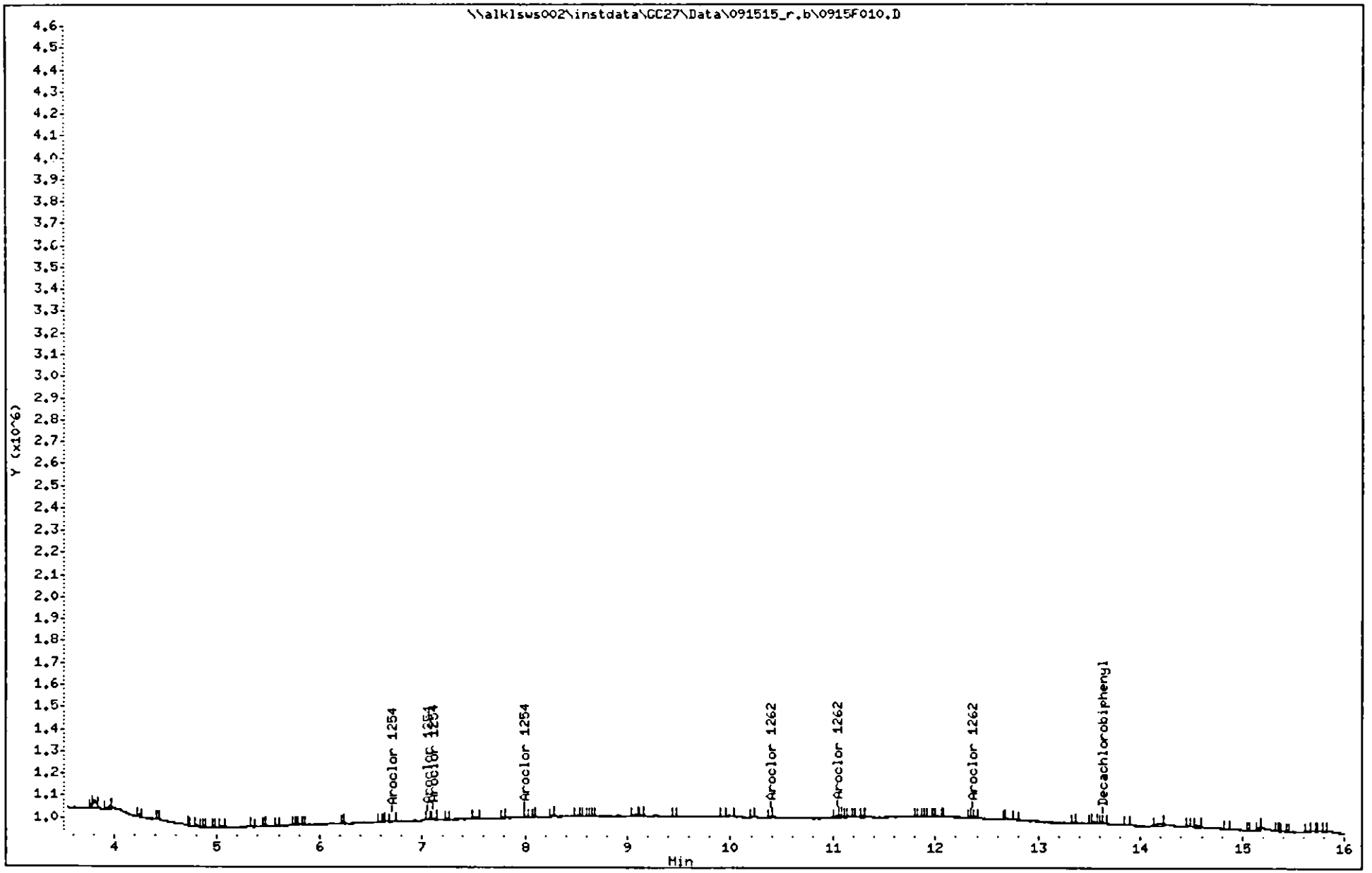
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F010.D
Date : 15-SEP-2015 18:12
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F021.D
Lab ID: KWG1509033-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 22:31
Date Quantitated: 09/21/2015 14:38
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCU ok

Primary Review: JMR 09/22/15

Secondary Review: [signature]

Printed: 09/21/2015 15:07:03
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F021.D
Lab ID: KWG1509033-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 22:31
Date Quantitated: 09/21/2015 14:39
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: [signature] 09/22/15

Secondary Review: [signature]

Printed: 09/21/2015 15:07:07
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F021.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F021.D			**Vial:**	1
Acqu Date:	09/15/2015 22:31	**Quant Date:**	09/21/2015 14:38	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-5				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9823422	3707104	55.49	47.13				NA
				%Recovery =	NA	NA	Limits =	33-120		
Decachlorobiphenyl	12.27	13.63	8406873	4224888	53.16	51.30				NA
				%Recovery =	NA	NA	Limits =	37-139		

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	484.91	423.37			
Aroclor 1016 {1}	4.24	4.62	1768669m	789712	492.81	429.63			
Aroclor 1016 {2}	4.75	4.96	1510119m	1041242	504.03	427.69			
Aroclor 1016 {3}	4.94	5.59	4910902m	1259403	496.50	419.91			
Aroclor 1016 {4}	5.21	5.93	2320695m	921930	467.76	420.01			
Aroclor 1016 {5}	5.51	6.12	2398975m	904648	463.44	419.60			
Aroclor 1260			0	0	502.61	495.75			
Aroclor 1260 {1}	7.08	7.84	4650914	1019870	472.15	462.34			
Aroclor 1260 {2}	8.10	9.27	4078151	1872754	502.62	495.45			
Aroclor 1260 {3}	8.65	9.72	4182533	1810594	508.15	501.71			
Aroclor 1260 {4}	9.12	10.40	9562966	4354845	508.70	504.36			
Aroclor 1260 {5}	9.90	11.03	7397820	2875859	521.46	514.93			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F021.D
Report Date: 21-Sep-2015 14:38

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F021.D
Inj Date : 15-SEP-2015 22:31
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 16-SEP-2015 08:58
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	9823422	3707104	55.5	47.1		100.00
Aroclor 1016	4.242	4.622	1768669	789712	493	430	80.00- 120.00	100.00(M)
	4.745	4.955	1510119	1041242	504	428	62.96- 94.44	85.38(M)
	4.938	5.592	4910902	1259403	496	420	177.85- 266.77	277.66(M)
	5.212	5.925	2320695	921930	468	420	98.14- 147.22	131.21(M)
	5.505	6.119	2398975	904648	463	420	100.29- 150.43	135.64(M)
		Average of Peak Amounts =			485	424		
Aroclor 1260	7.078	7.835	4650914	1019870	472	462	80.00- 120.00	100.00
	8.098	9.272	4078151	1872754	503	495	70.17- 105.25	87.68
	8.652	9.722	4182533	1810594	508	502	72.11- 108.17	89.93
	9.115	10.395	9562966	4354845	509	504	164.70- 247.05	205.61
	9.898	11.032	7397820	2875859	521	515	128.09- 192.14	159.06
		Average of Peak Amounts =			503	496		
Decachlorobiphenyl	12.268	13.625	8406873	4224888	53.2	51.3		100.00

QC Flag Legend

M - Compound response manually integrated.

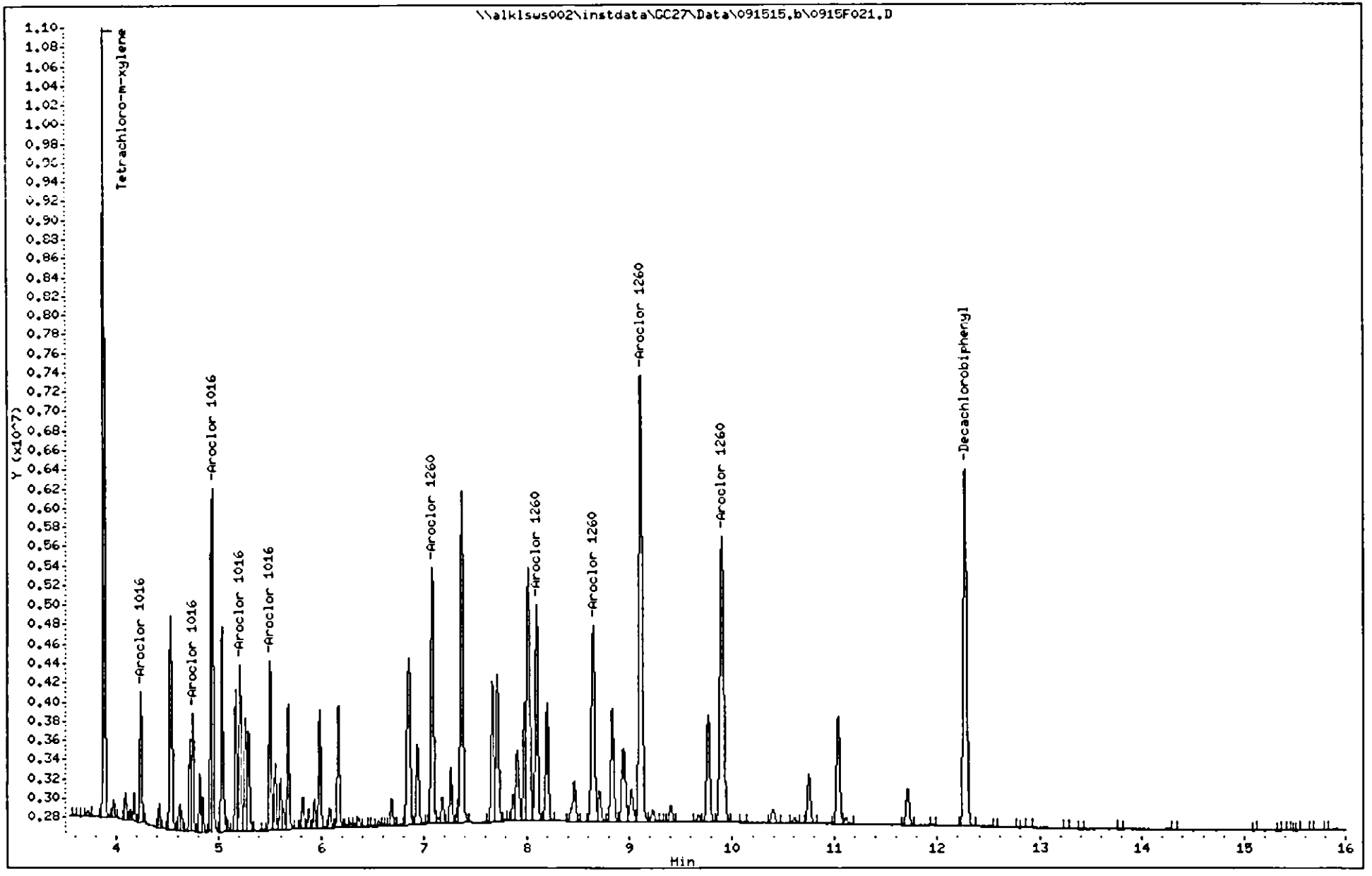
Data File: \\alklsus002\instdata\GC27\Data\091515.b\0915F021.D
Date : 15-SEP-2015 22:31
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR

Column phase: DB-35MS

Column diameter: 0.32

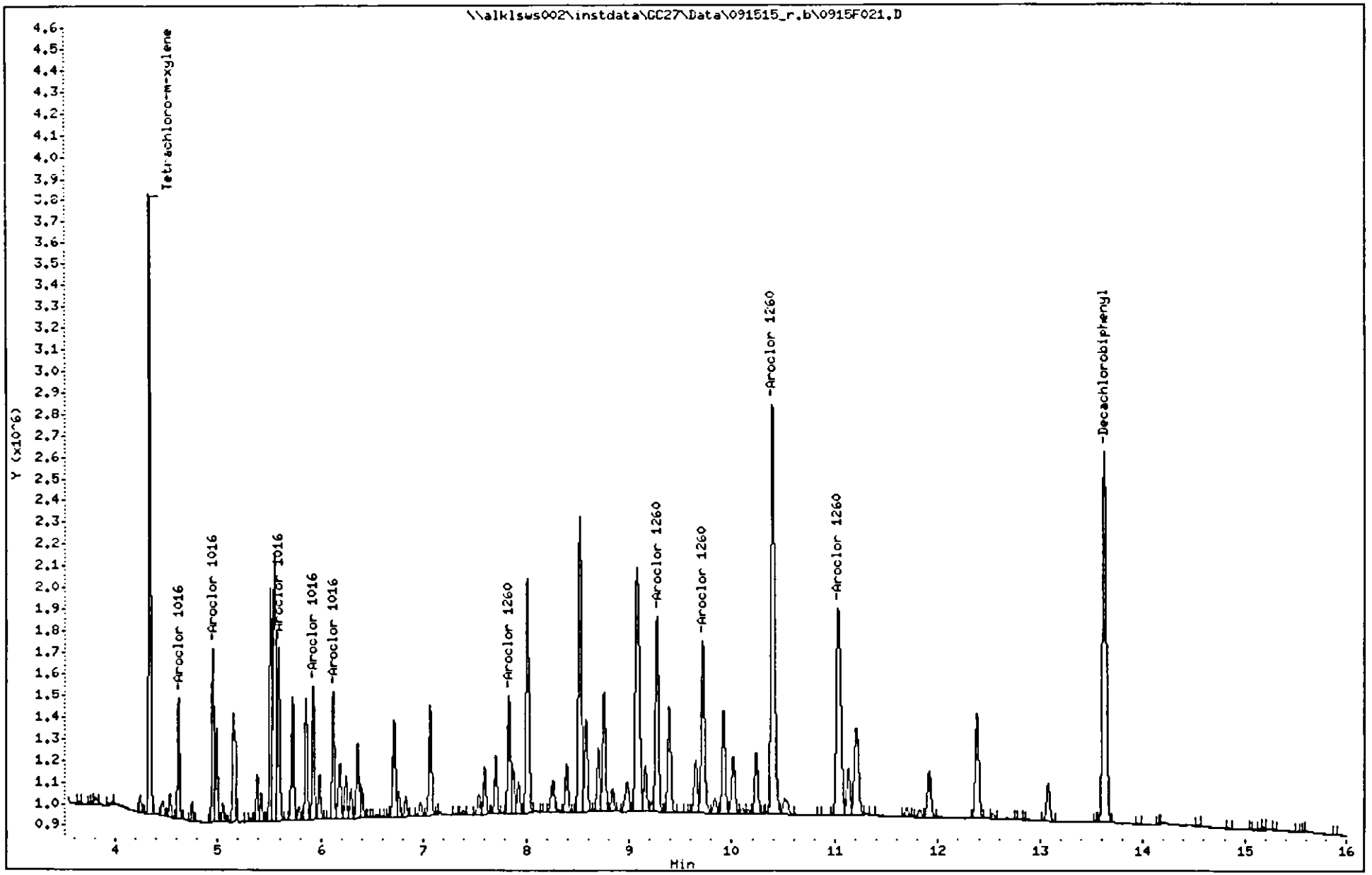


Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F021.D
Date : 15-SEP-2015 22:31
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

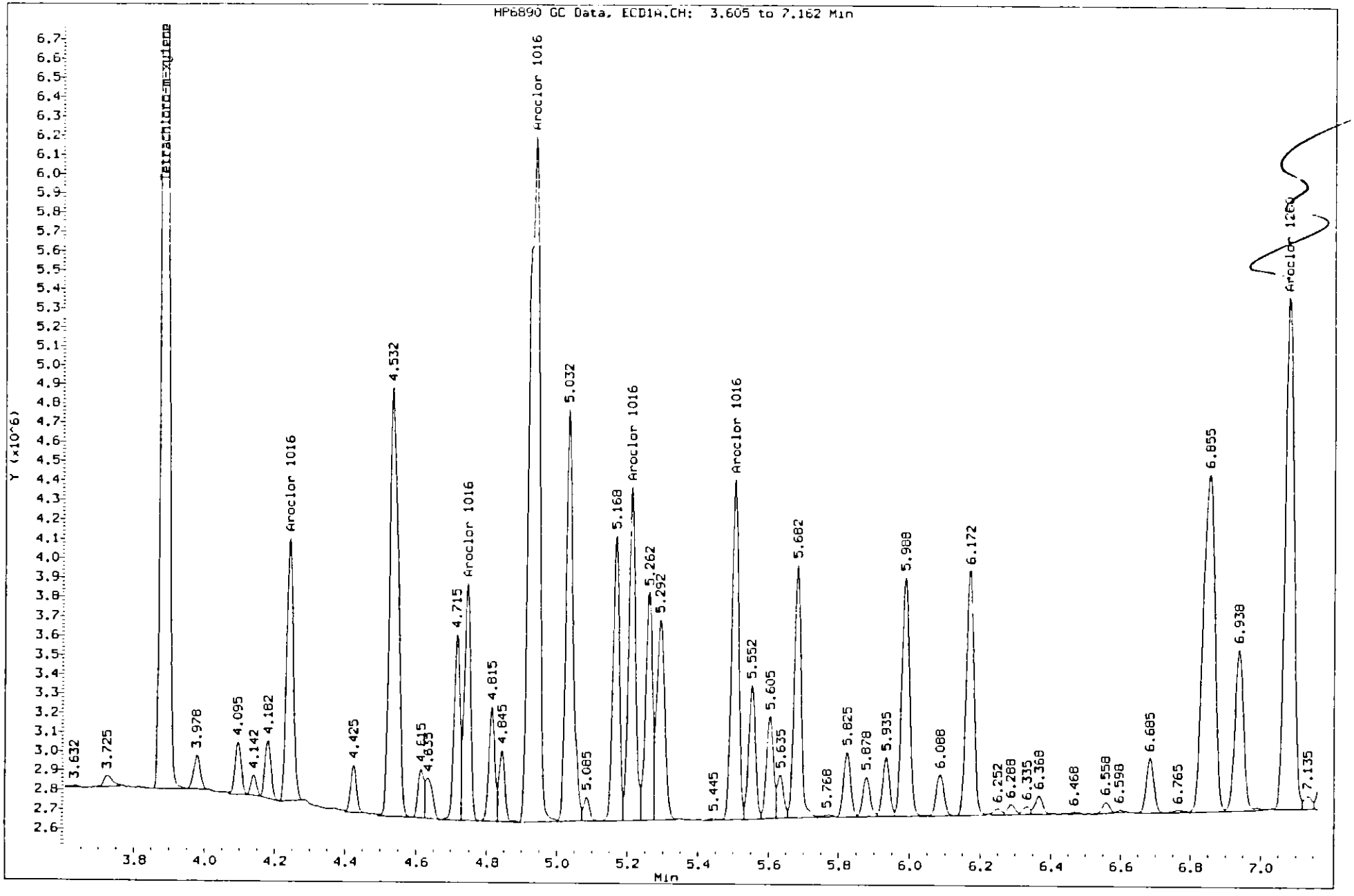
Operator: MR
Column diameter: 0.32



Before

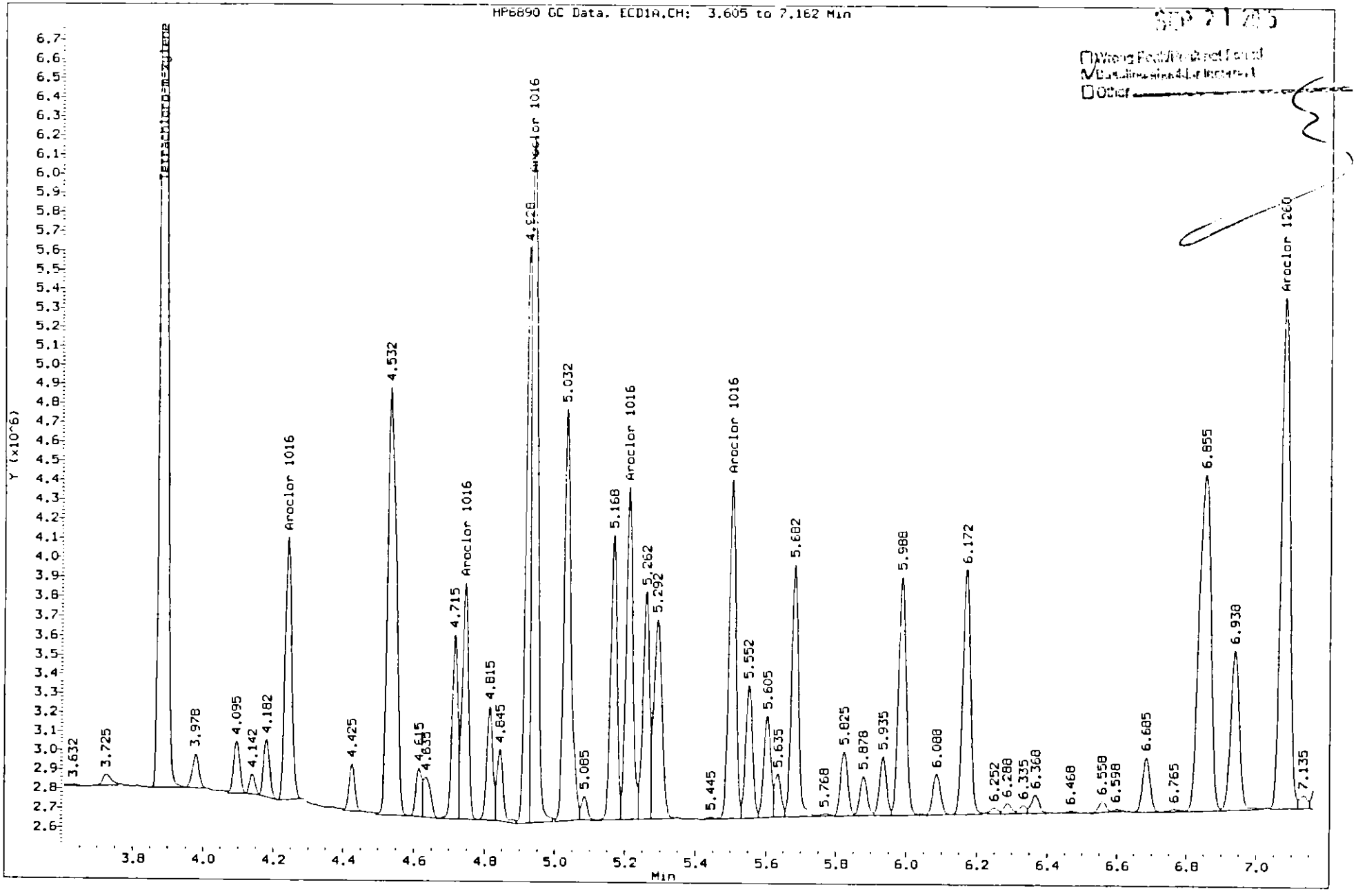
SEP 2 1 2015

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F021.D
Injection Date: 15-SEP-2015 22:31
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F021.D
Injection Date: 15-SEP-2015 22:31
Instrument: GC27.i
Client Sample ID:

After
Initials



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\0915F022.D
Lab ID: KWG1509033-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 22:54
Date Quantitated: 09/21/2015 14:38
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	JCN DL

Primary Review: MTL 09/22/15

Secondary Review:

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\091515_R.B\0915F022.D
Lab ID: KWG1509033-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/15/2015 22:54
Date Quantitated: 09/21/2015 14:39
Batch ID: KWG1509033
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dial

Primary Review: YMR 09/02/15

Secondary Review: _____

Printed: 09/21/2015 15:07:15
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\091515.B\0915F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F022.D			**Vial:**	2
Acqu Date:	09/15/2015 22:54	**Quant Date:**	09/21/2015 14:38	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/21/2015

Analysis Lot:	KWG1509033	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\091515.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File #1:	J:\GC27\DATA\091515.B\0915F022.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\091515_r.b\0915F022.D			**Vial:**	2
Acqu Date:	09/15/2015 22:54	**Quant Date:**	09/21/2015 14:38	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509033-6				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0	0d	0.0000	0.0000			
Aroclor 1260 {2}			0	0d	0.0000	0.0000			
Aroclor 1260 {3}			0	0d	0.0000	0.0000			
Aroclor 1260 {4}			0	0d	0.0000	0.0000			
Aroclor 1260 {5}			0	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U Undetected at or above MDL
J Analyte detected above MDL, but below MRL
B Hit above MRL also found in Method Blank
E Analyte concentration above high point of ICAL
N Presumptive evidence of compound

D Result from dilution
m Manual integration performed
d Compound manually deleted
NR Analyte not reported from this analysis

* Result fails acceptance criteria
# Acceptance criteria not applicable
? Insufficient information to determine acceptance
e Result >= MRL, but MRL less than low point of ICAL
c check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F022.D
Report Date: 21-Sep-2015 14:38

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\091515.b\0915F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\0915F022.D
Inj Date : 15-SEP-2015 22:54
Sample Info: IB
Misc Info :
Cal Date : 16-SEP-2015 08:58
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\091515.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\091515_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

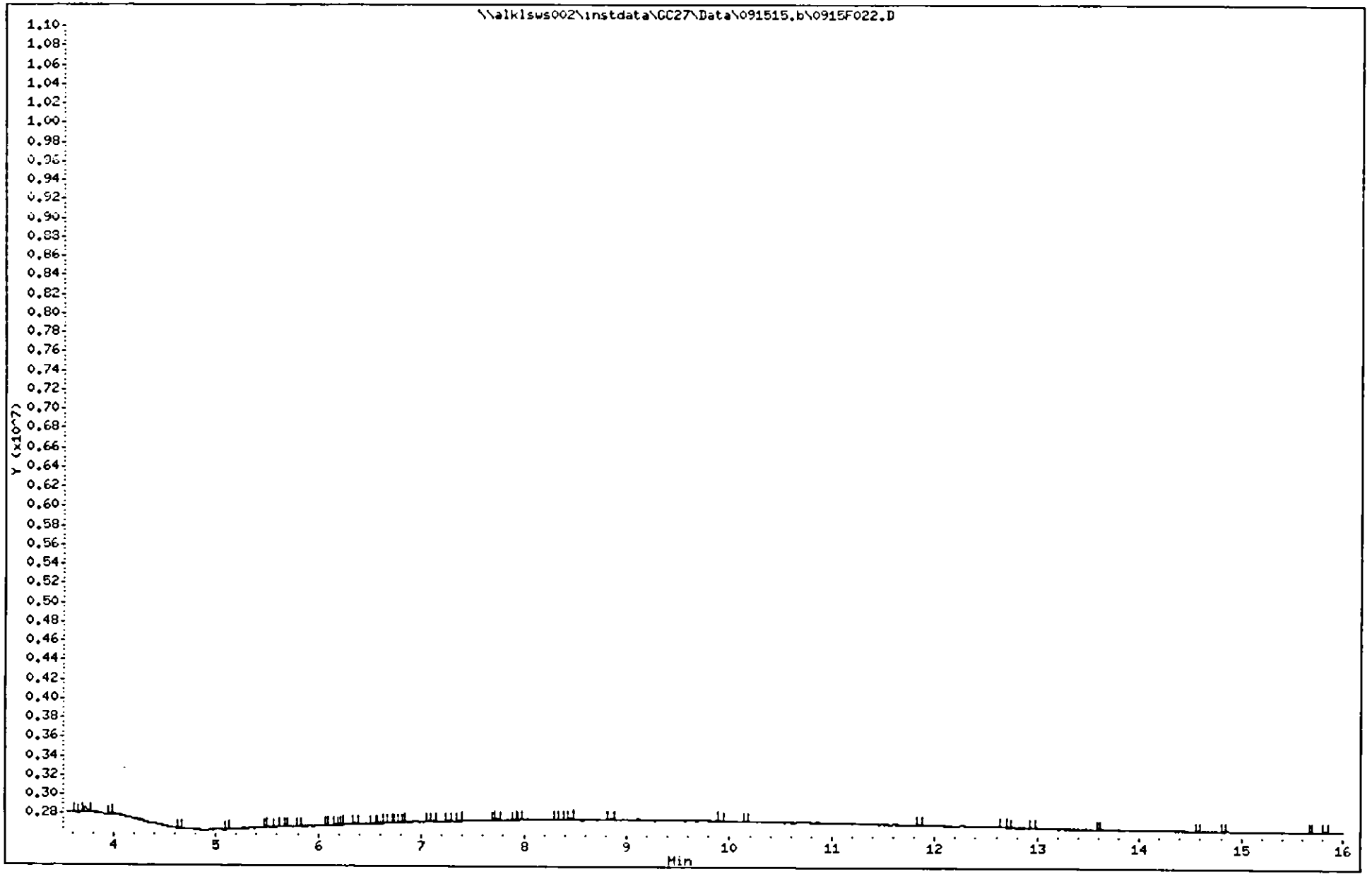
Data File: \\alklsws002\instdata\GC27\Data\091515.b\0915F022.D
Date : 15-SEP-2015 22:54
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



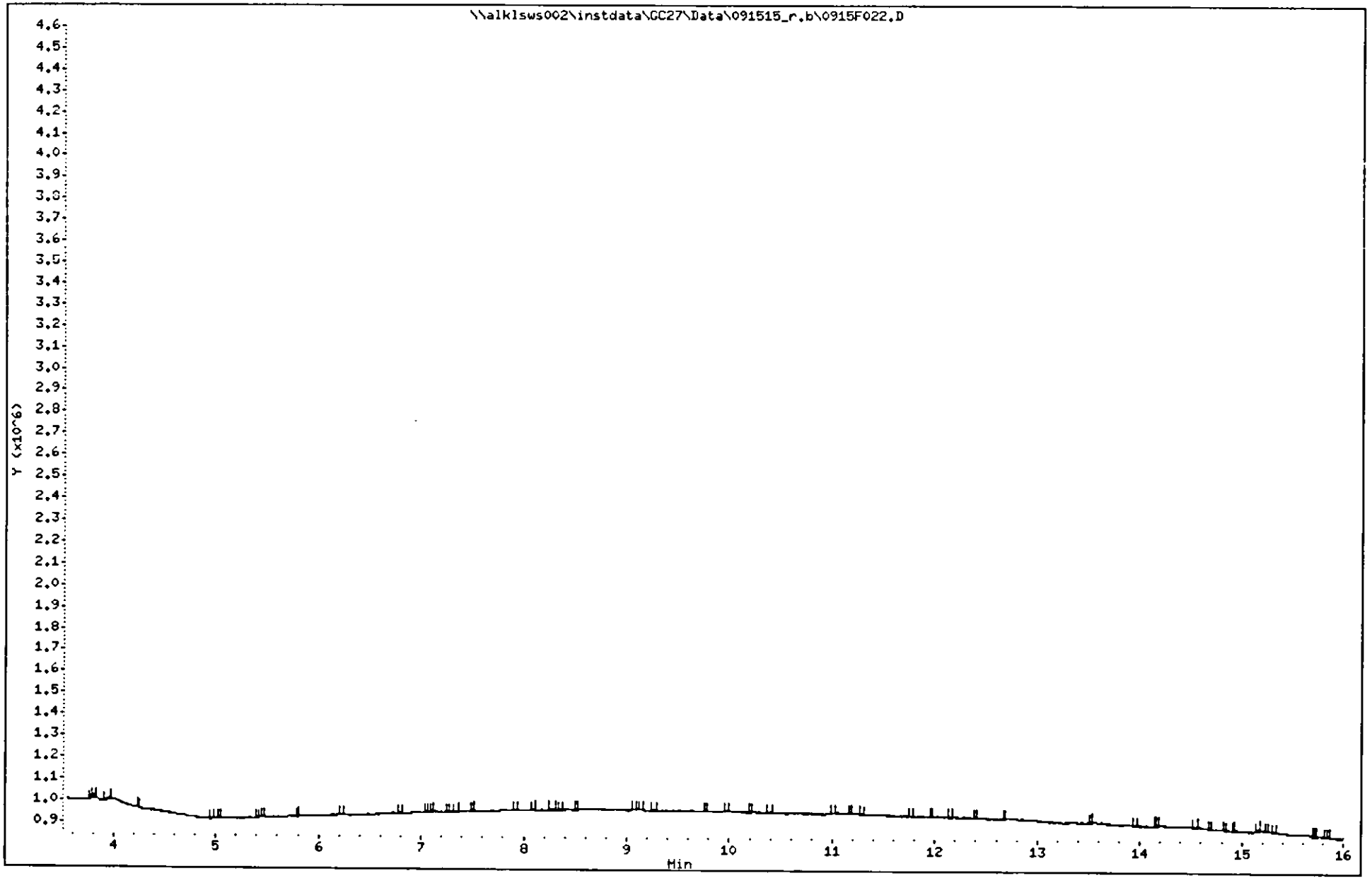
Data File: \\alklsws002\instdata\GC27\Data\091515_r.b\0915F022.D
Date : 15-SEP-2015 22:54
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: HR

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL3624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 BLSs, non curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see run
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see run
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *↓	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ -20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

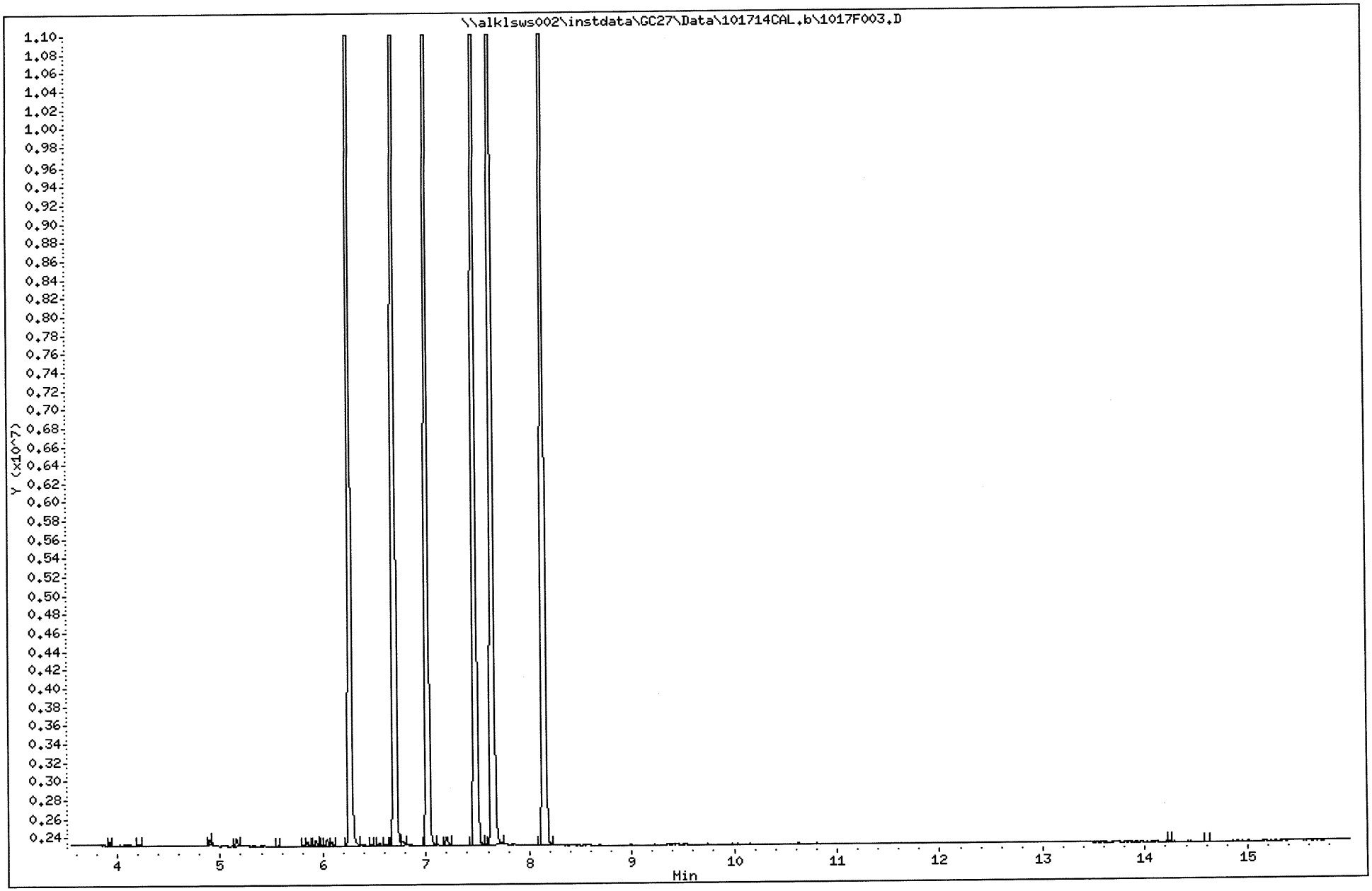
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



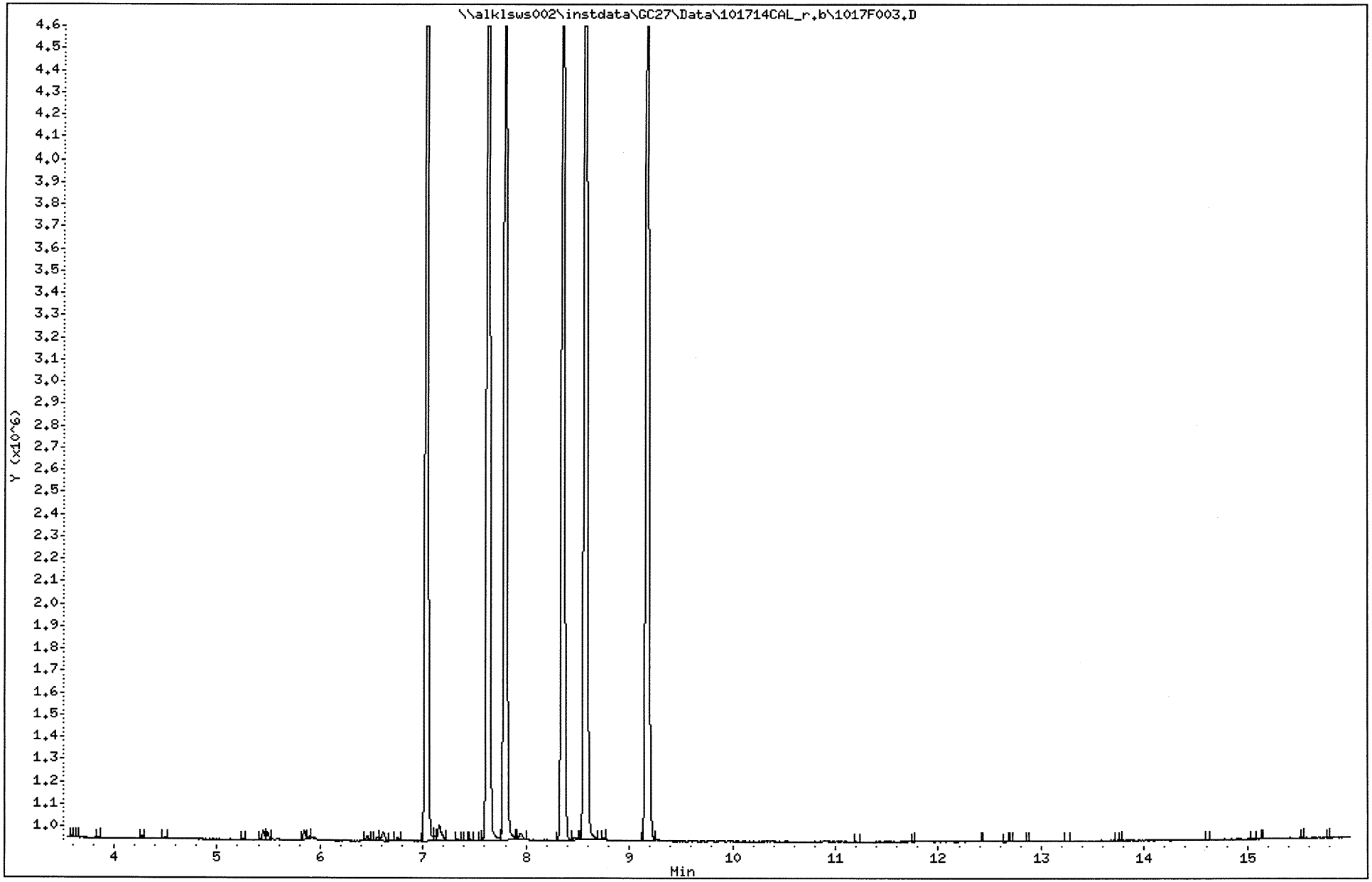
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

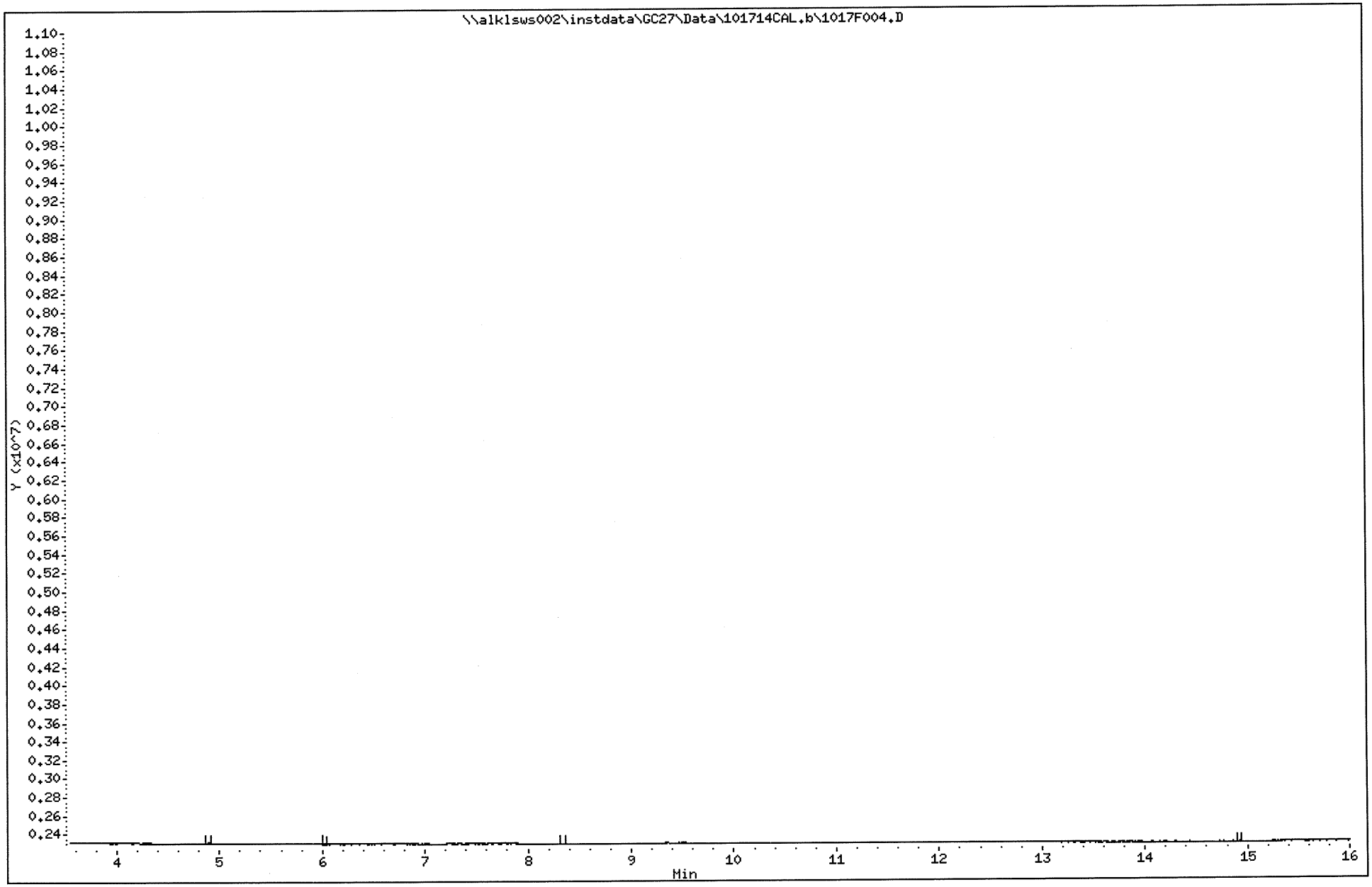
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



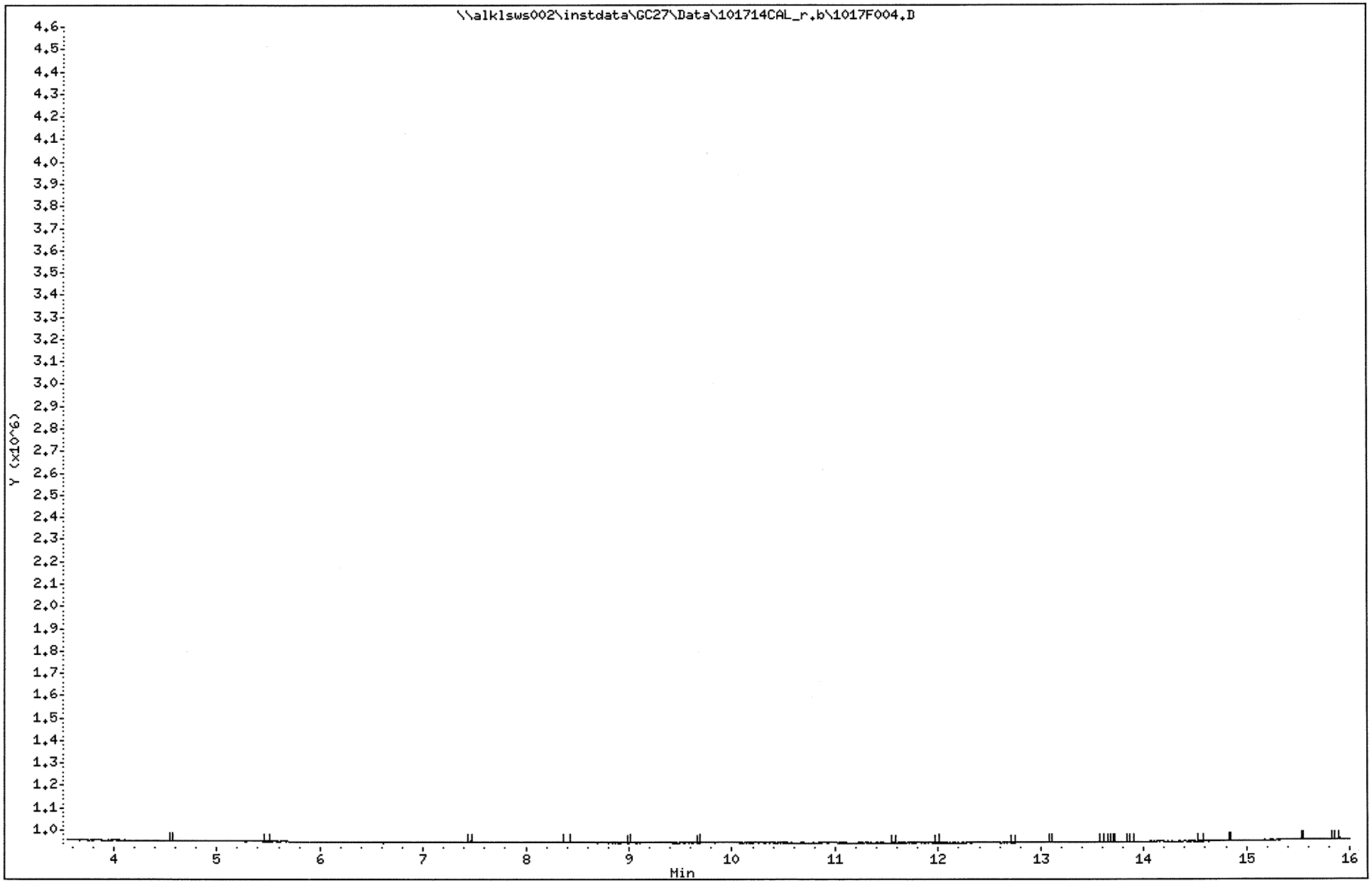
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

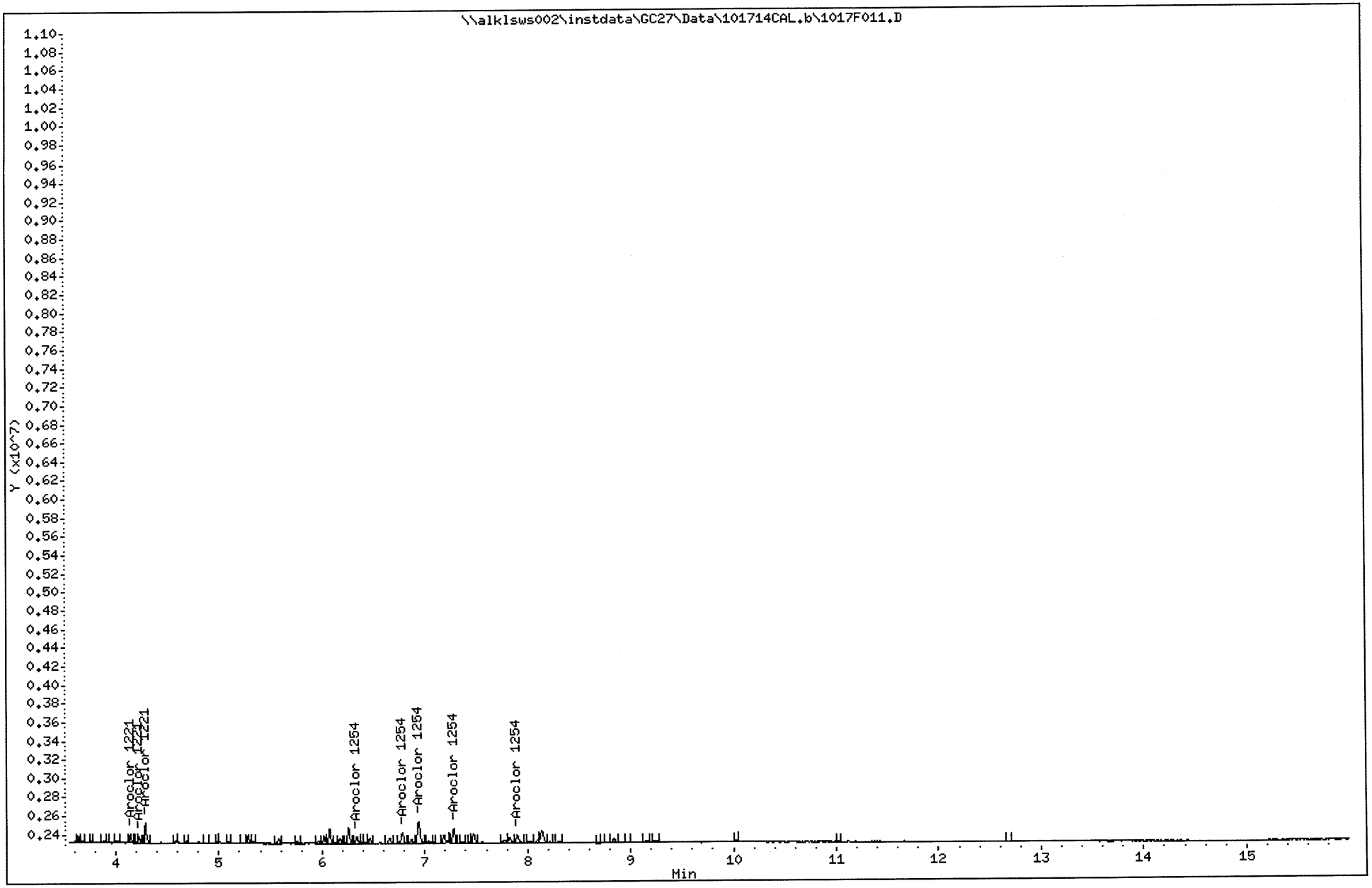
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



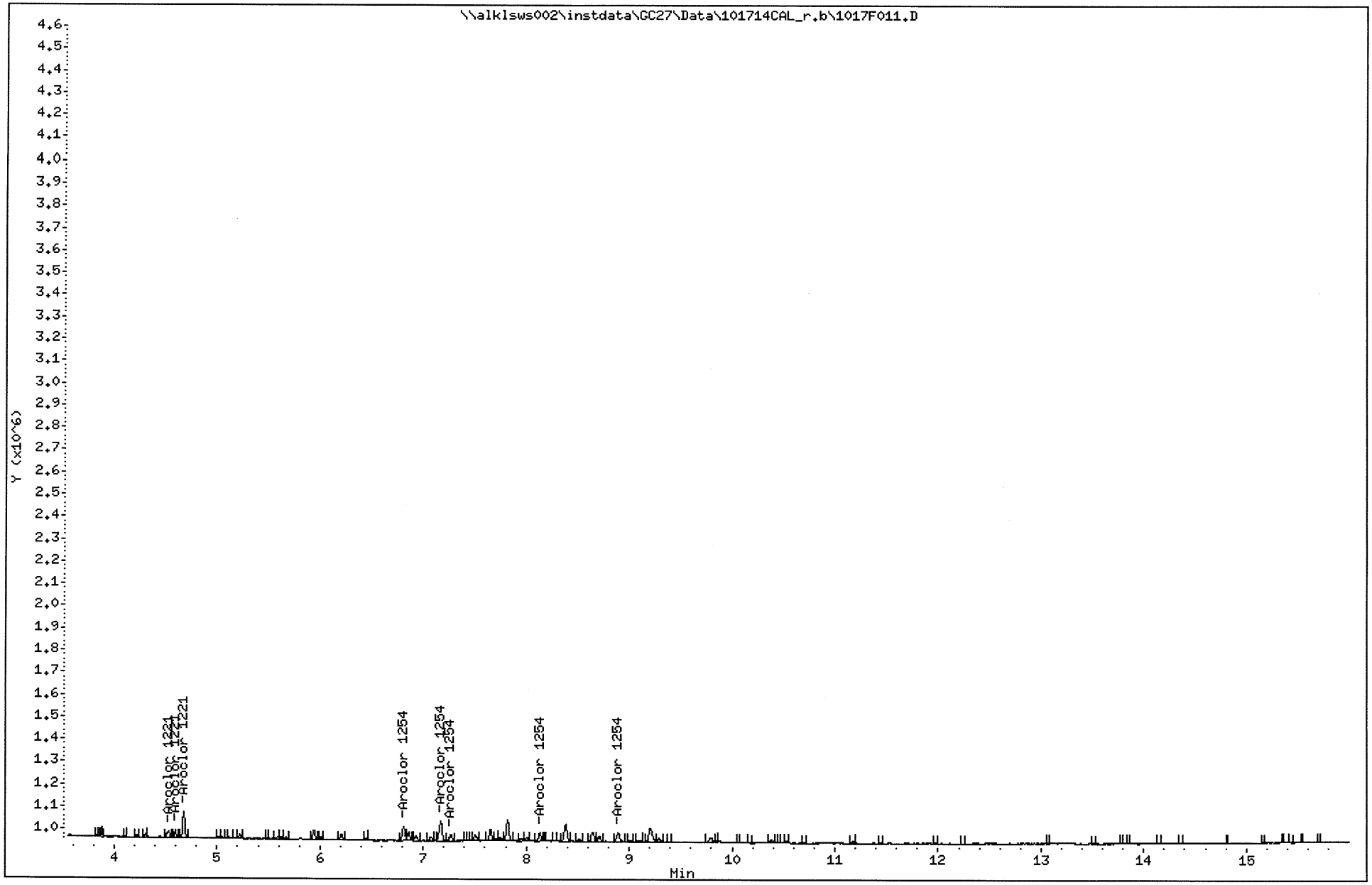
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

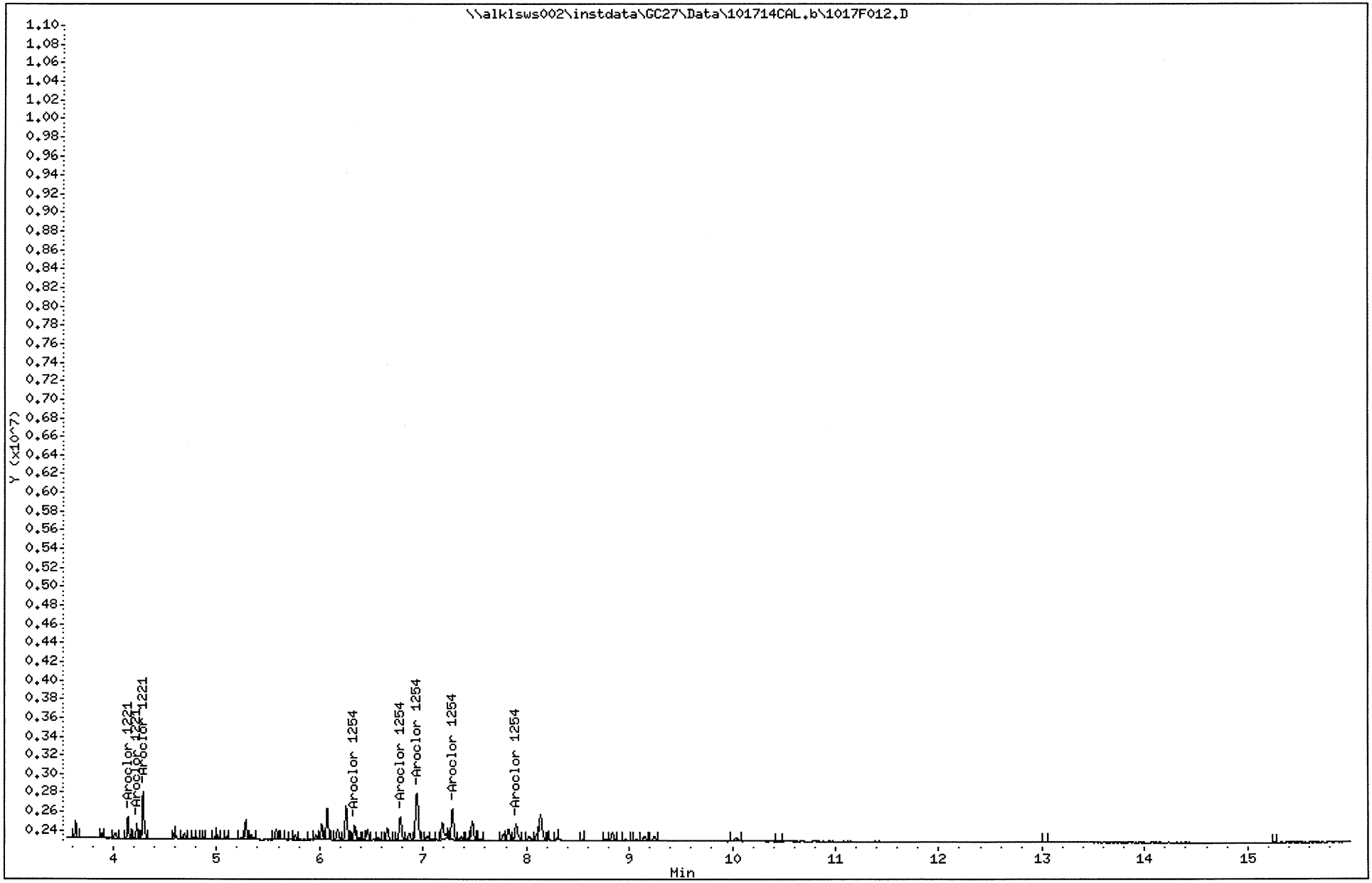
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



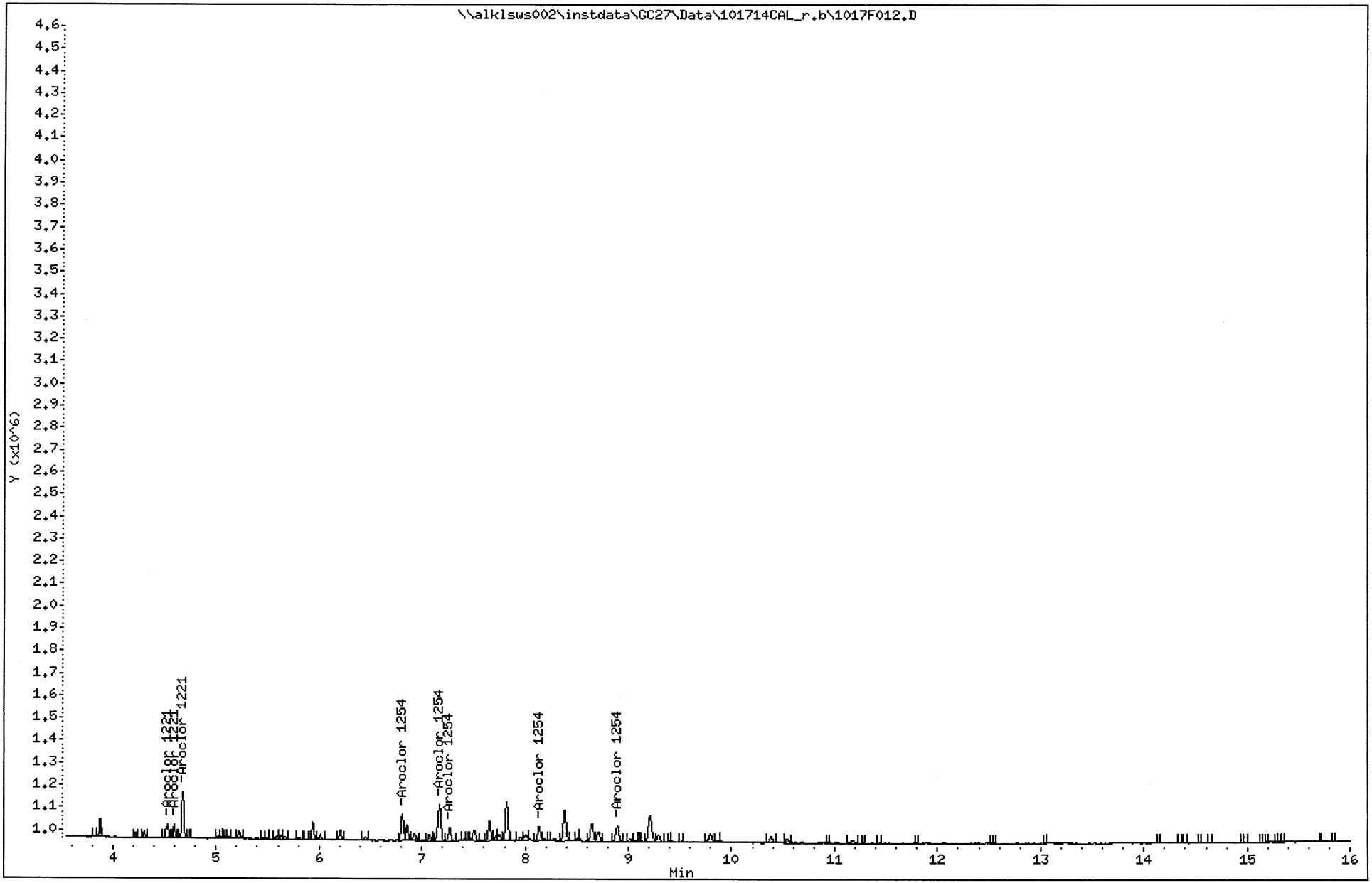
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

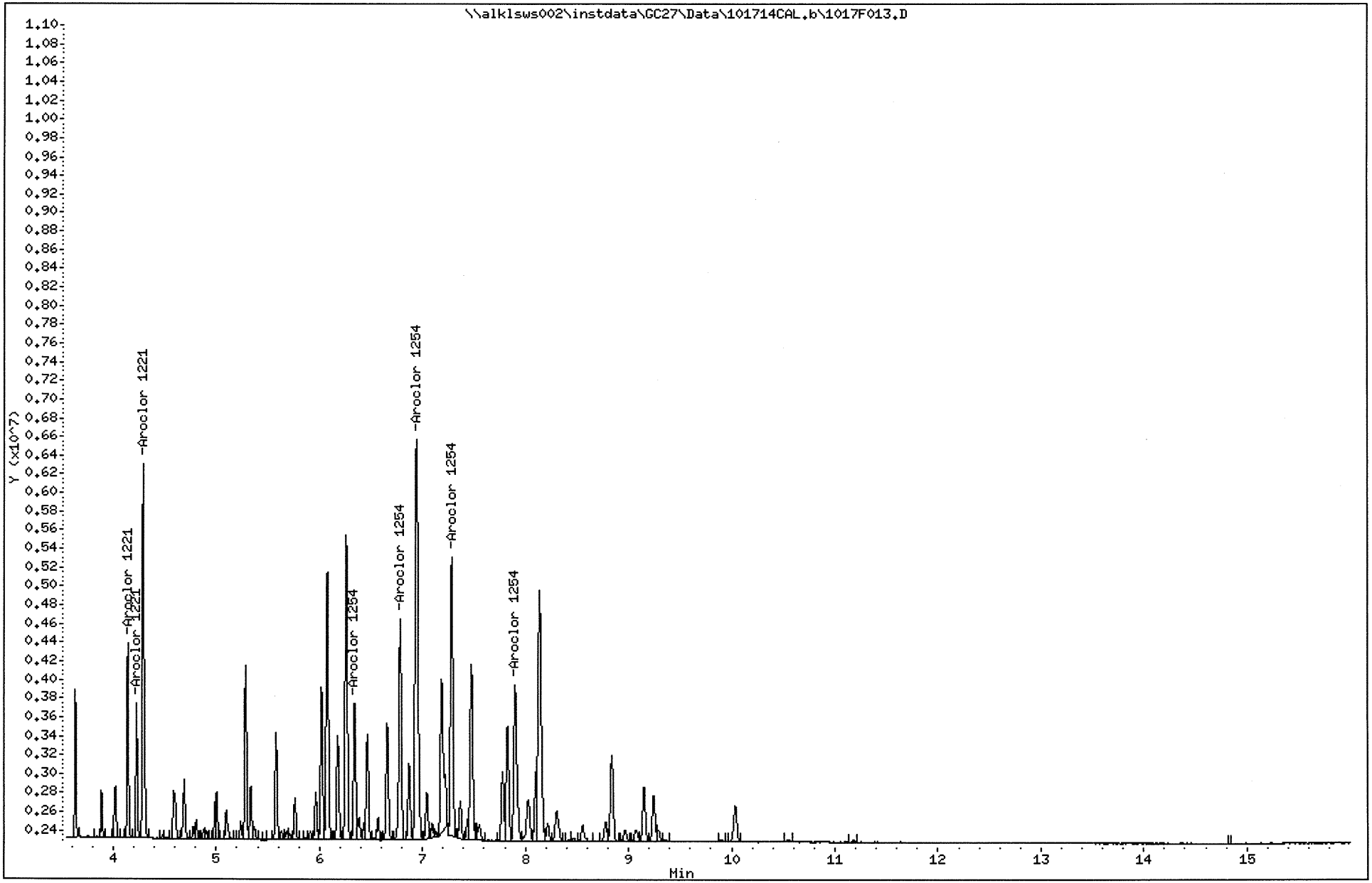
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



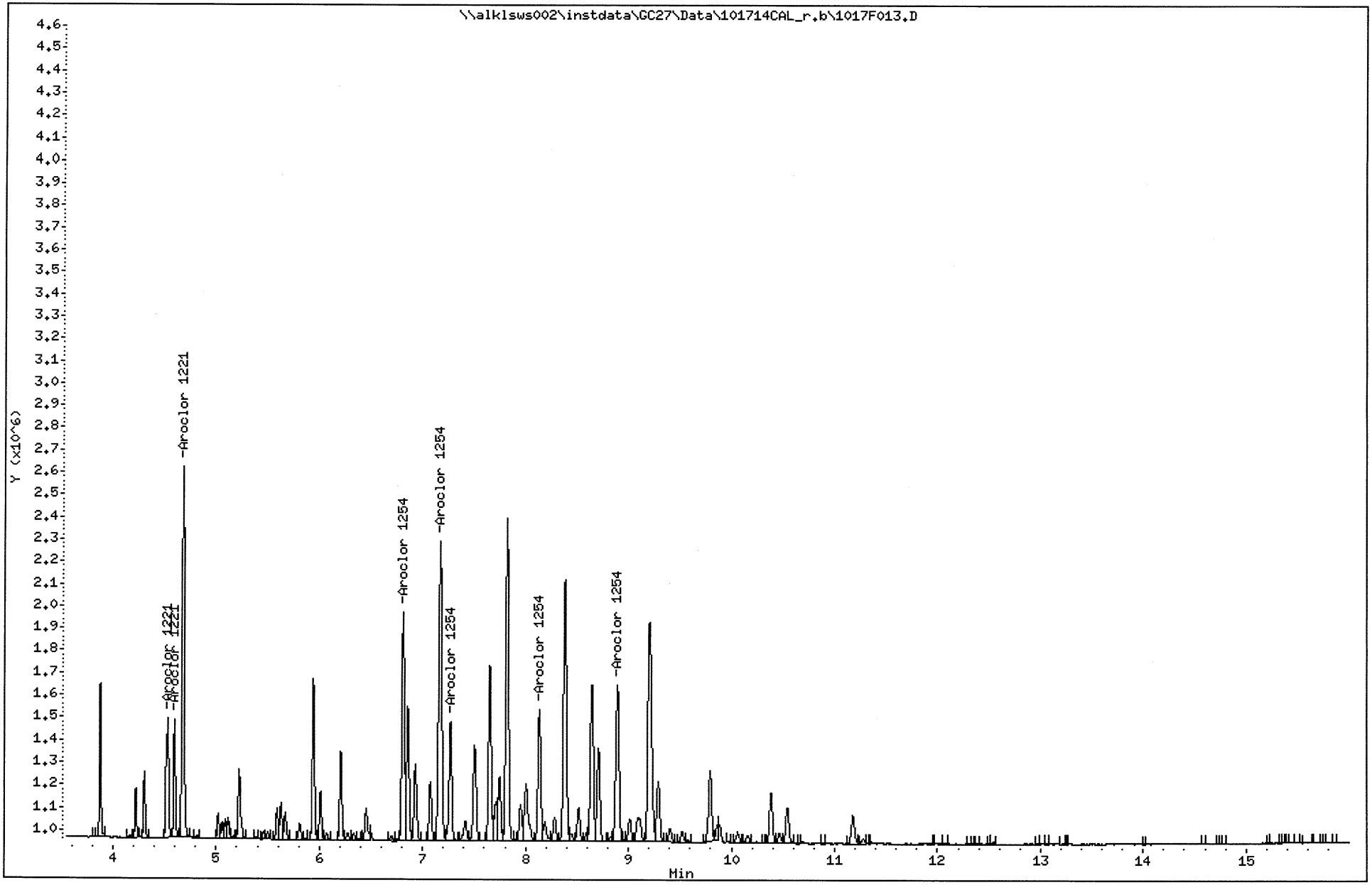
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

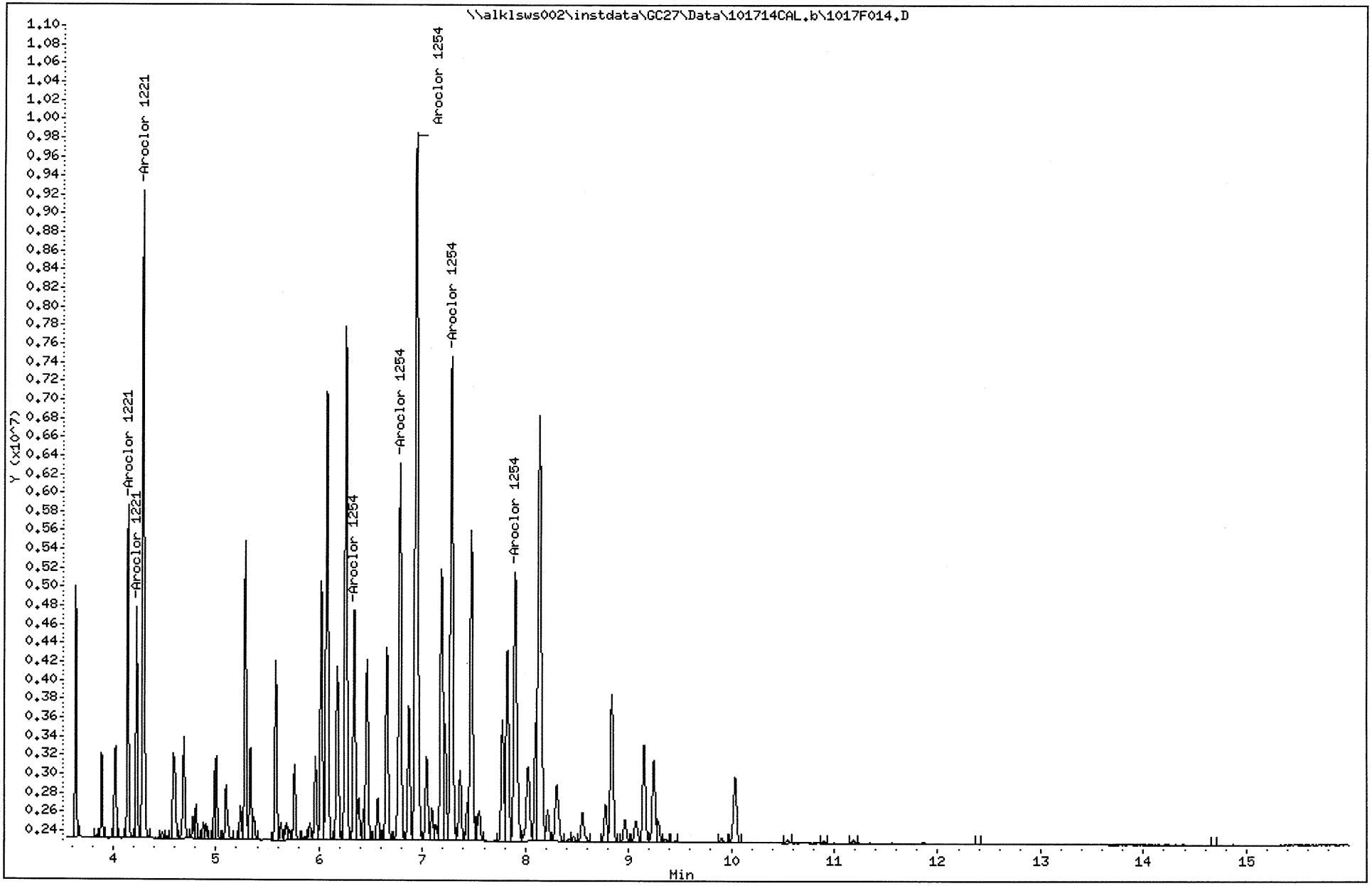
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

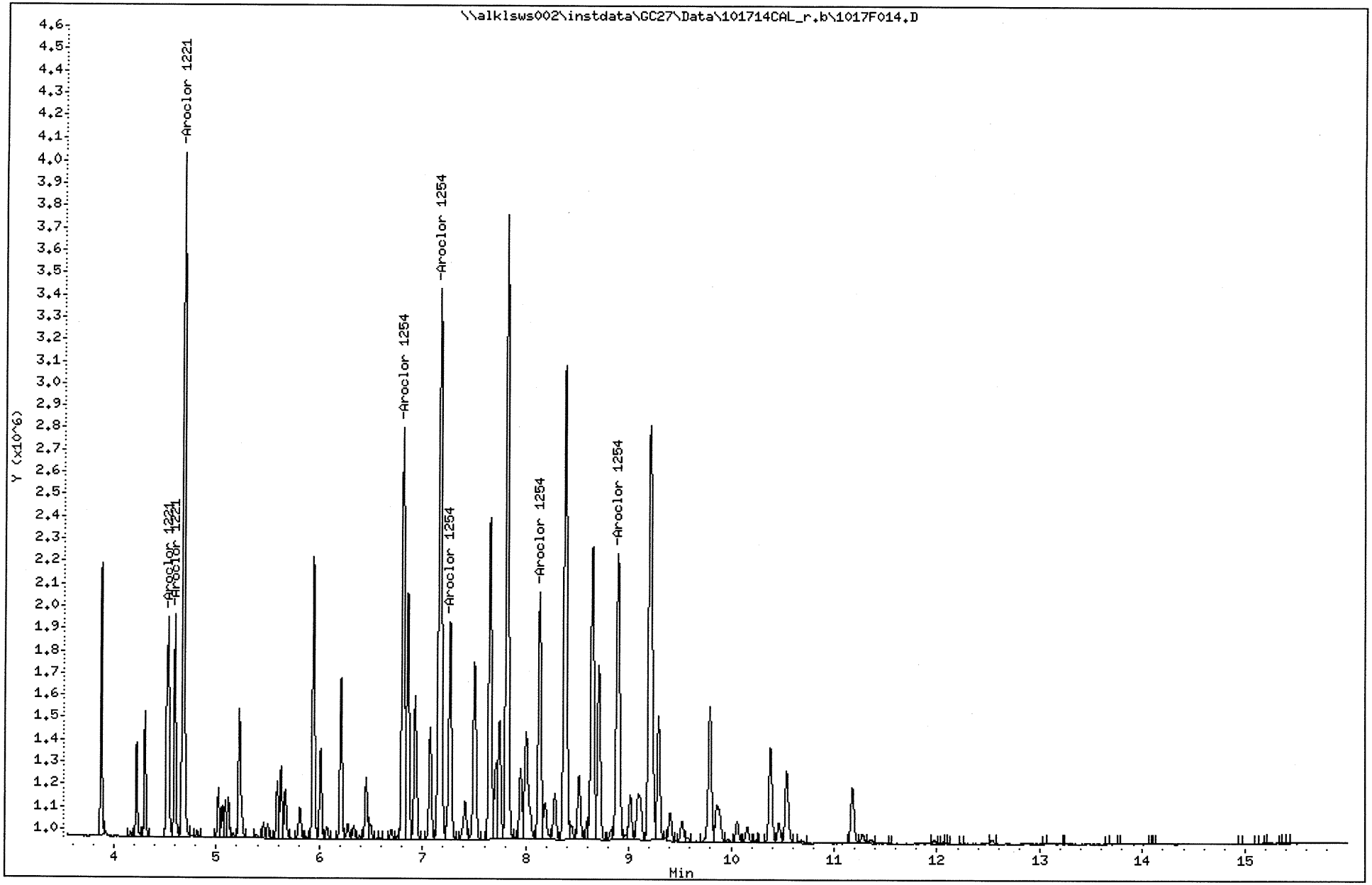


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

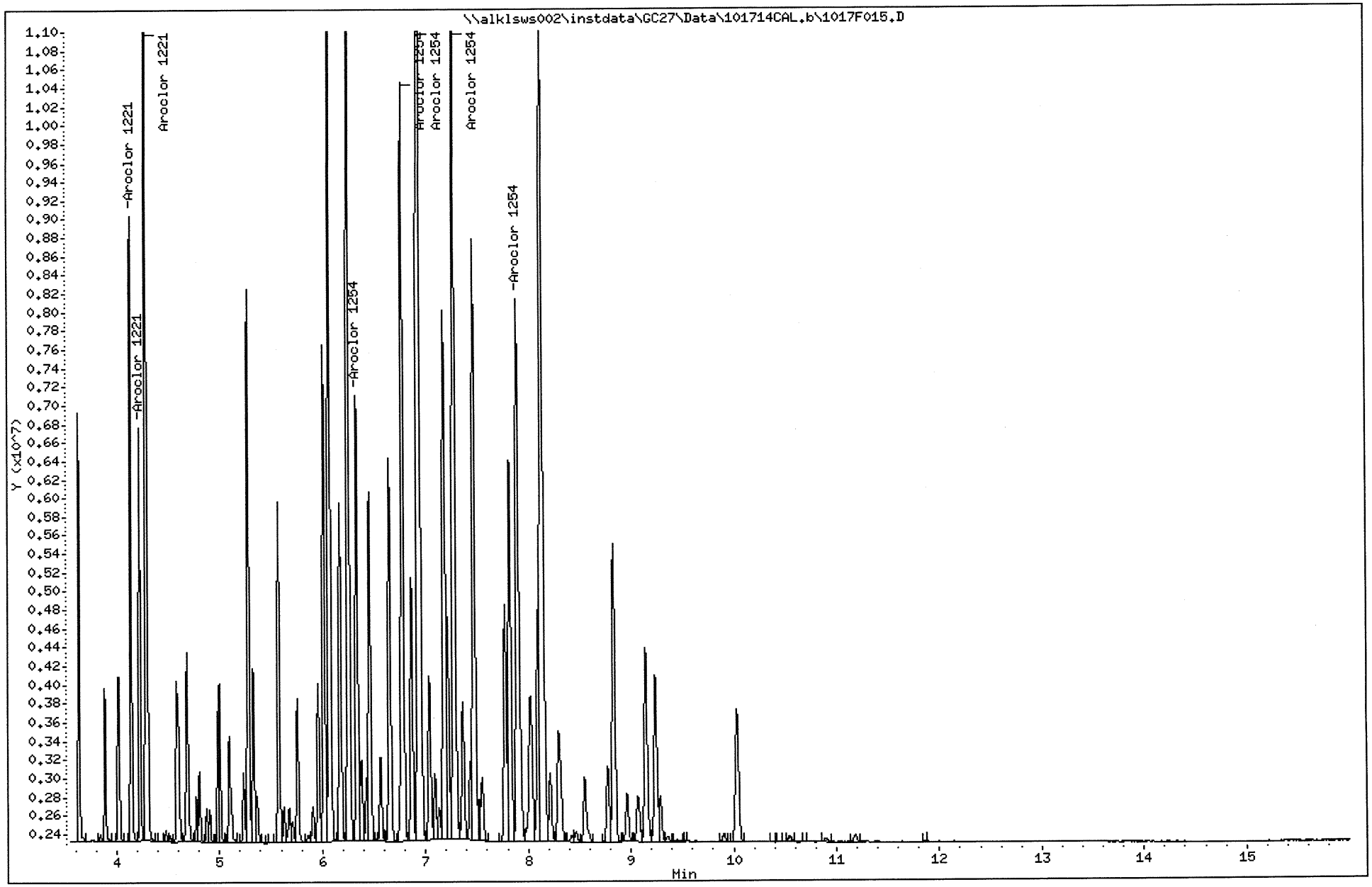
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



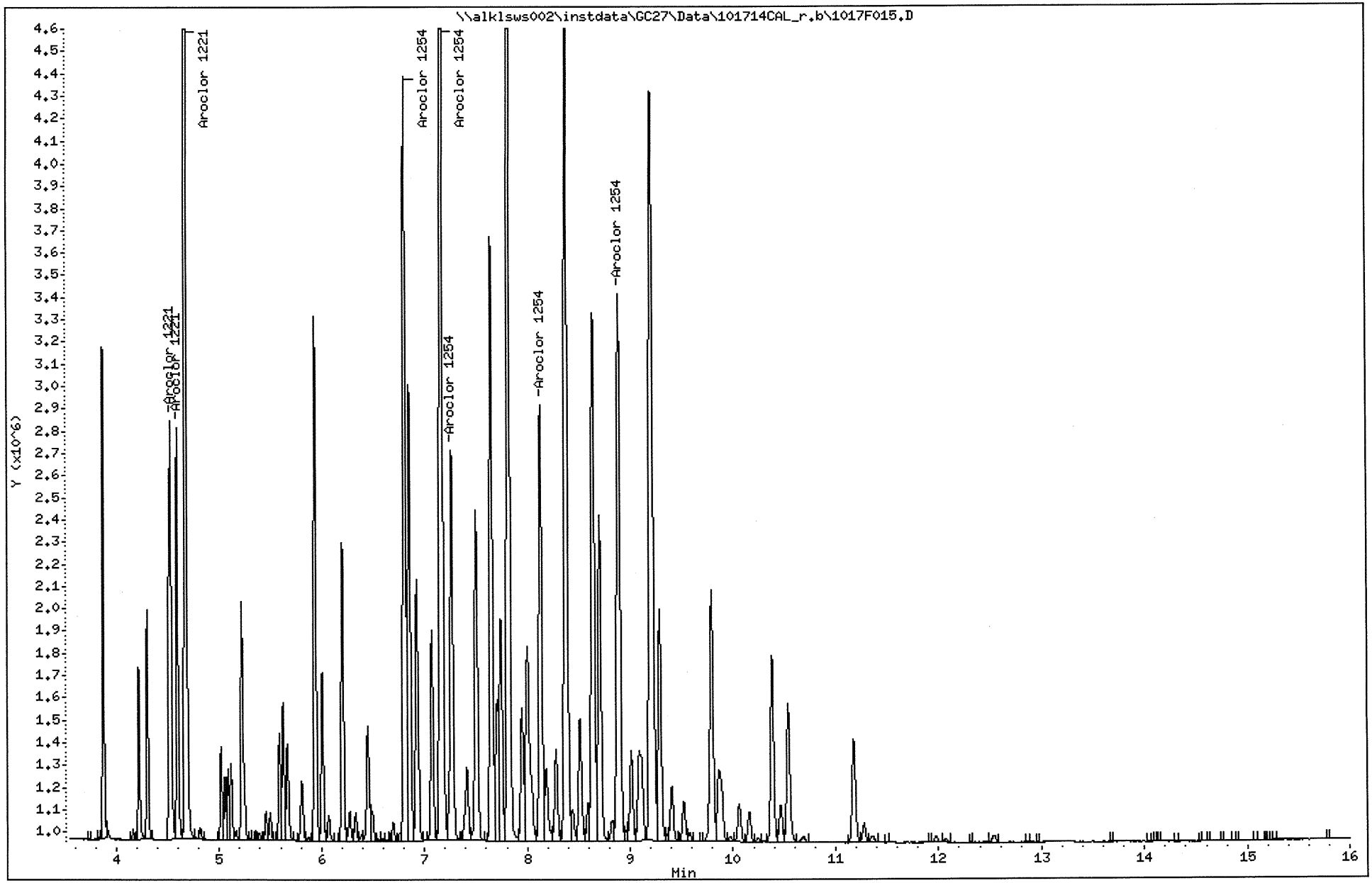
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

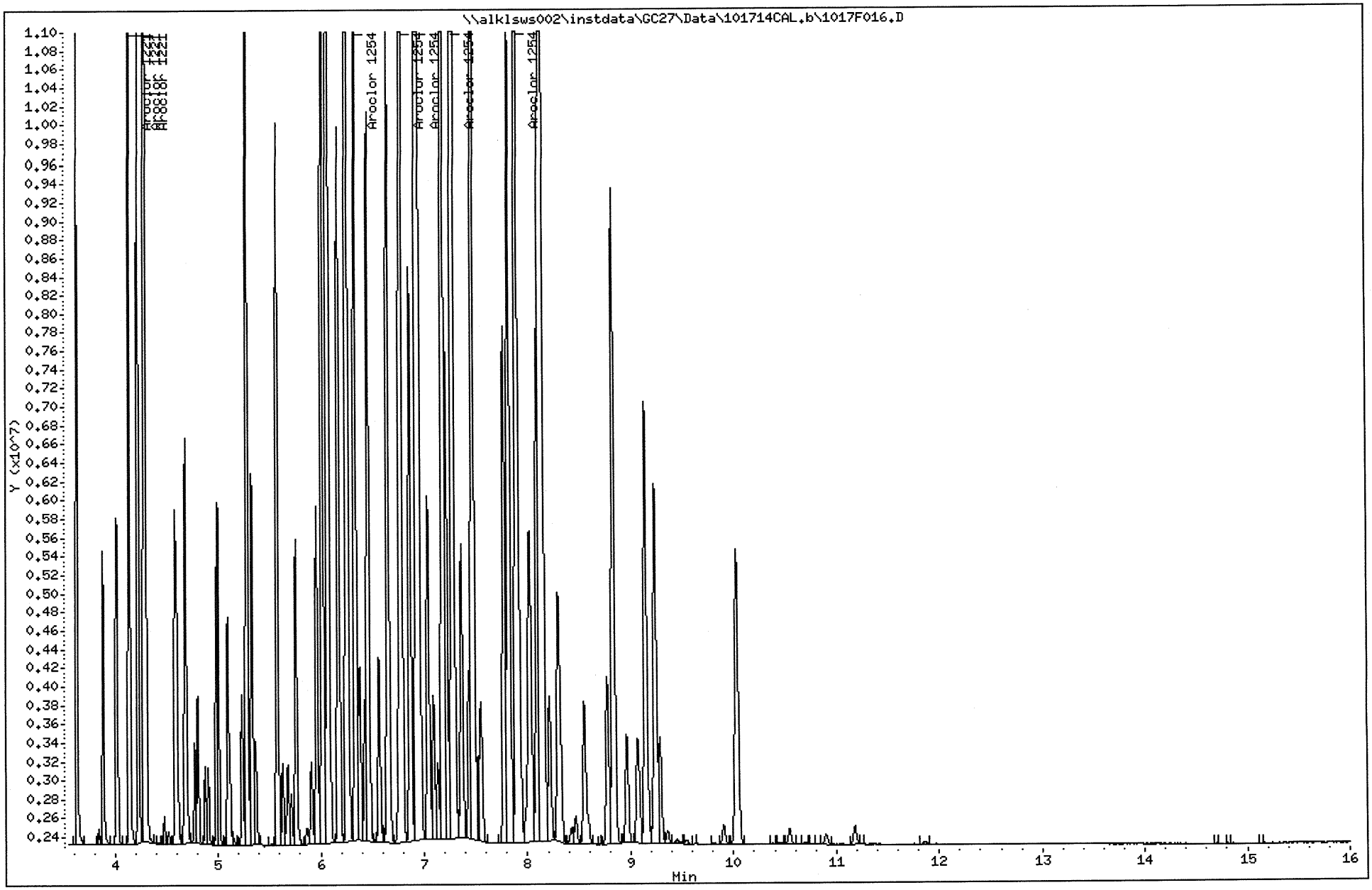
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



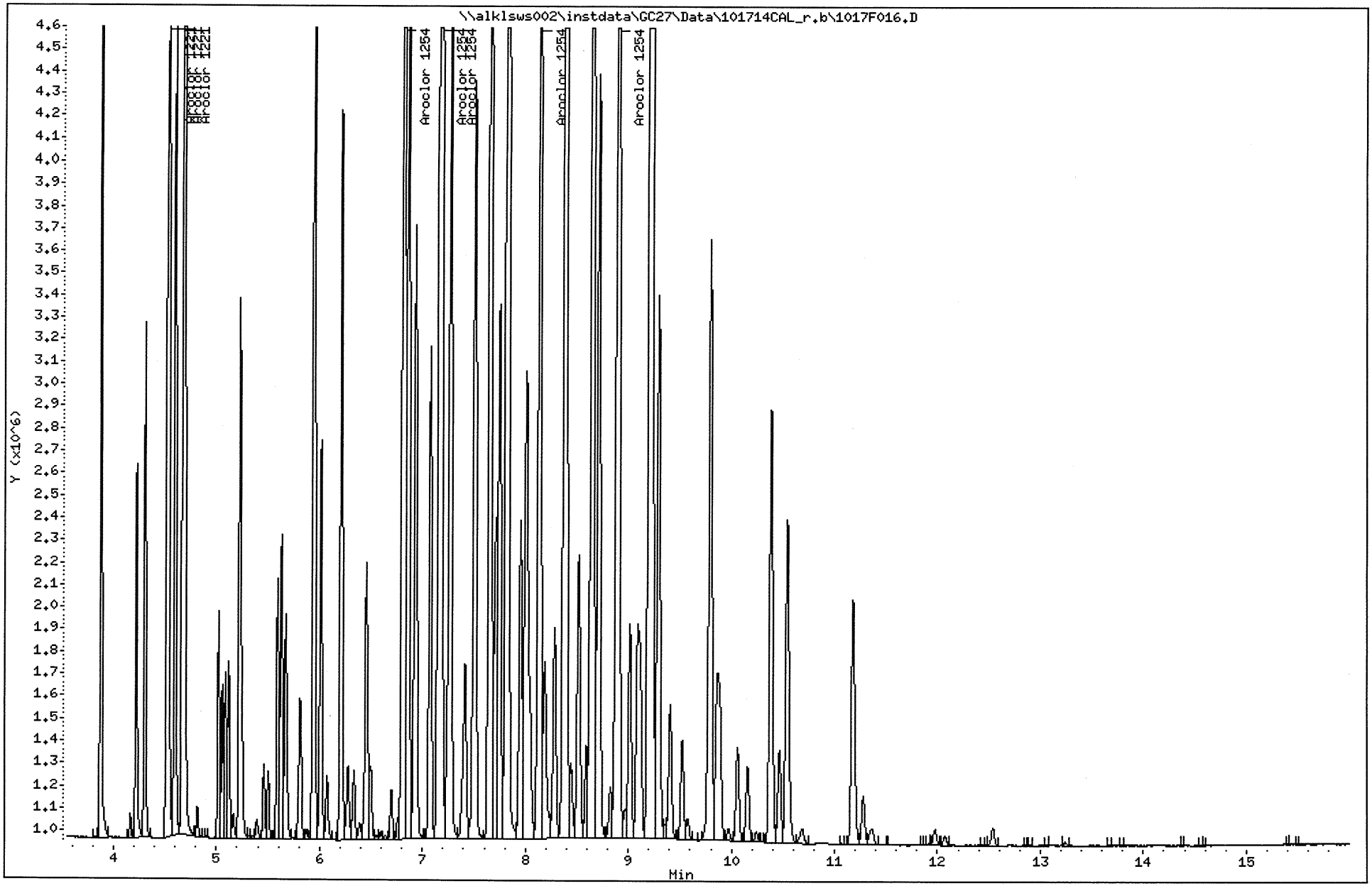
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

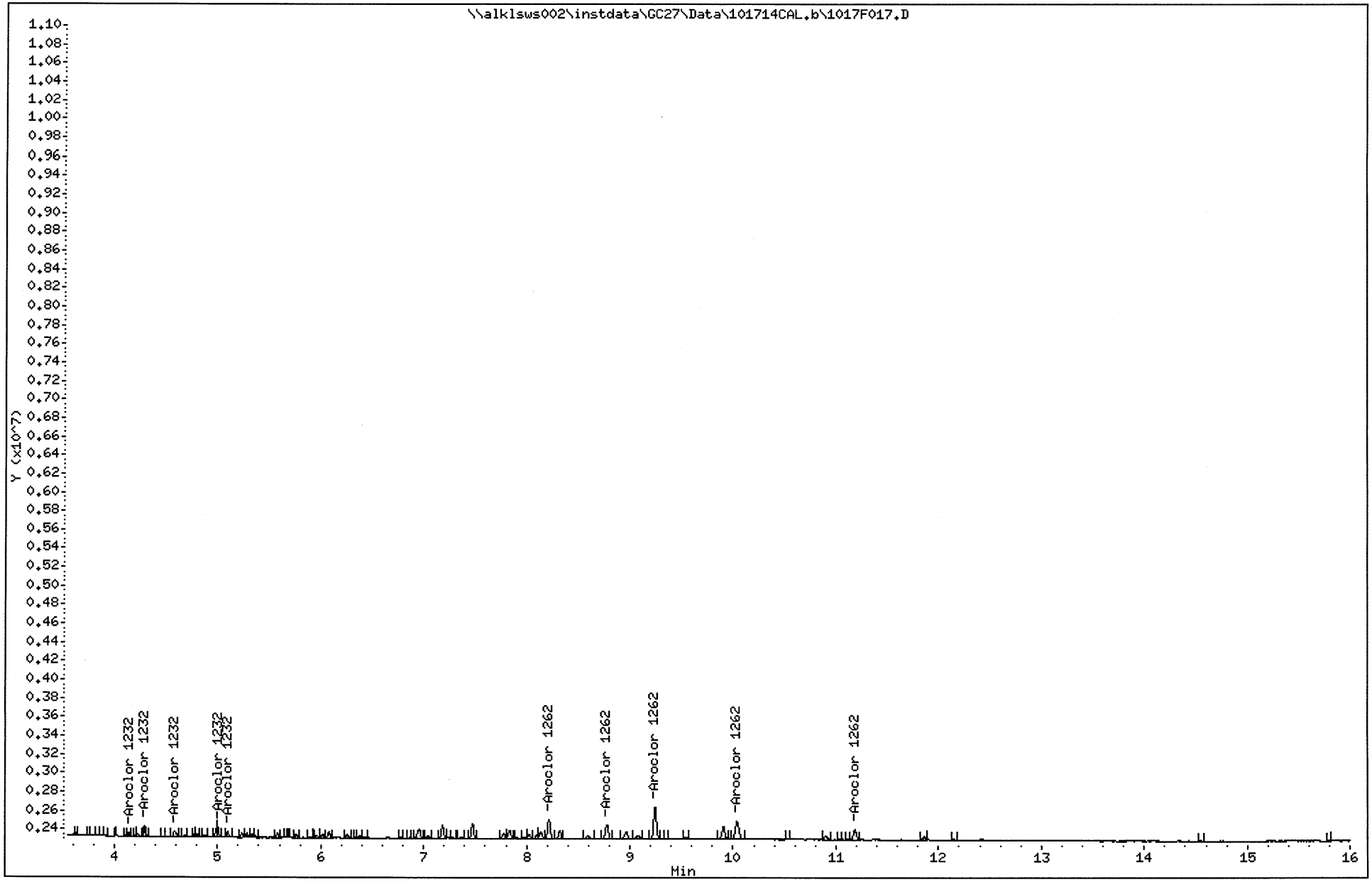
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



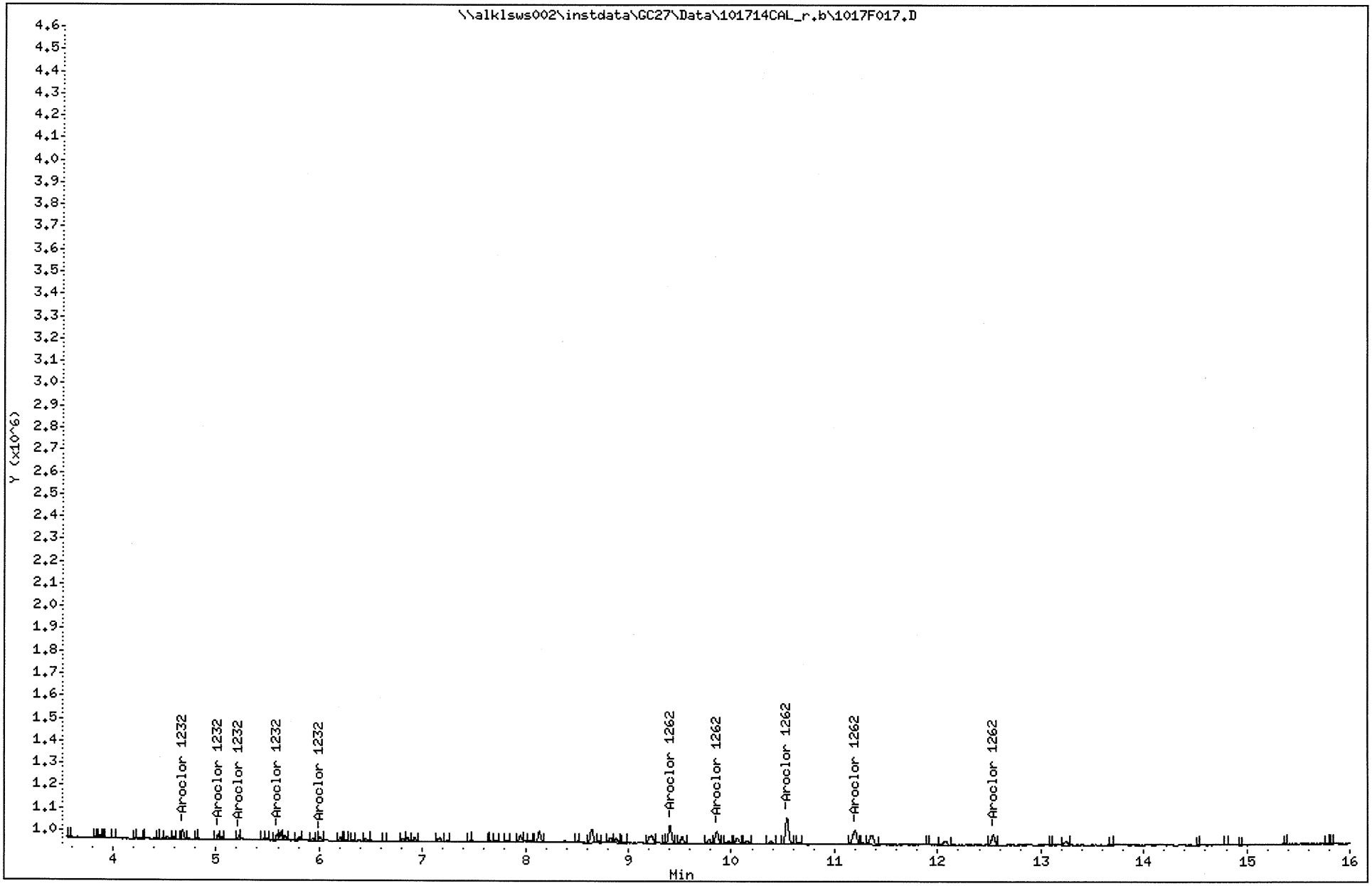
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

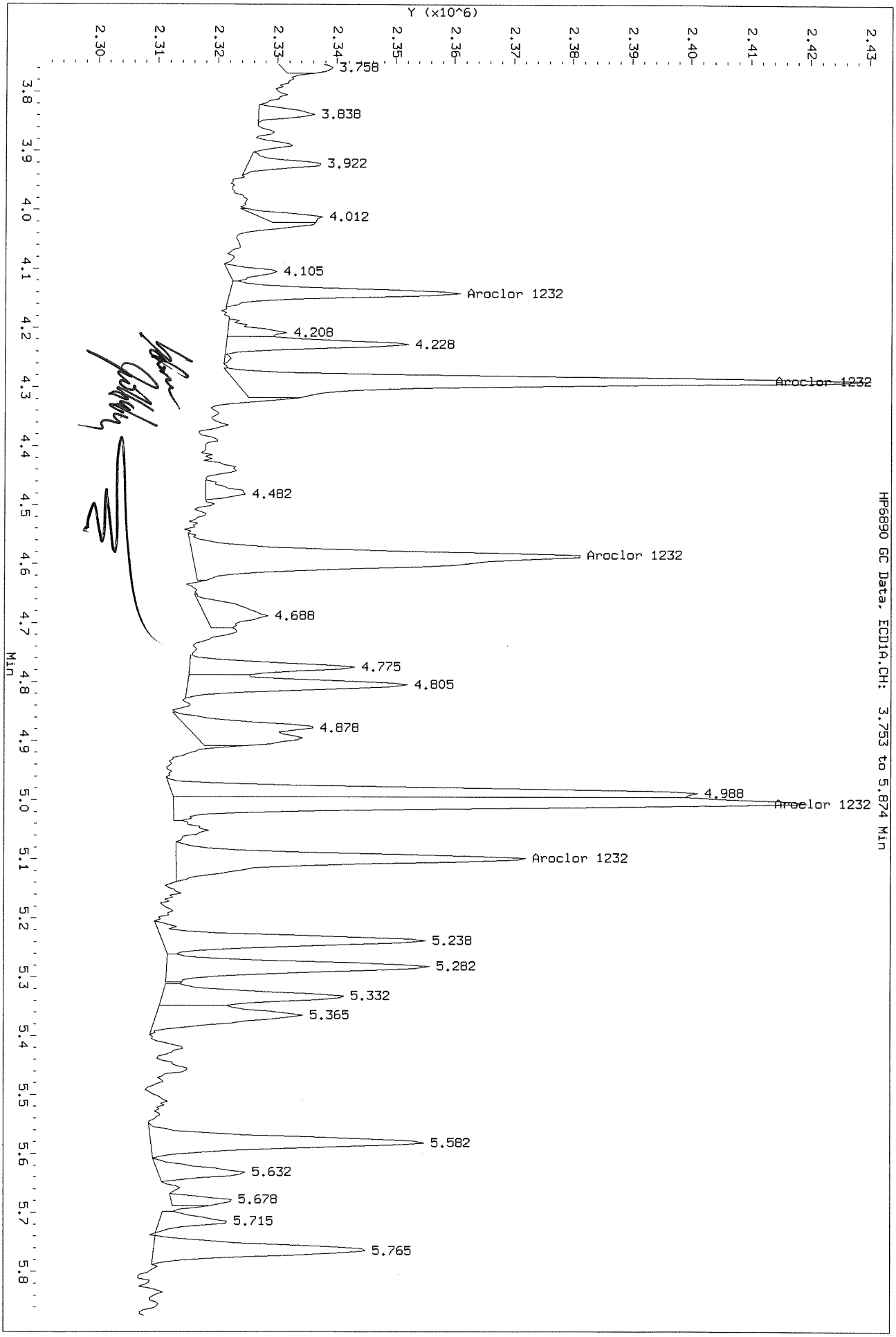
Operator: JMSmith

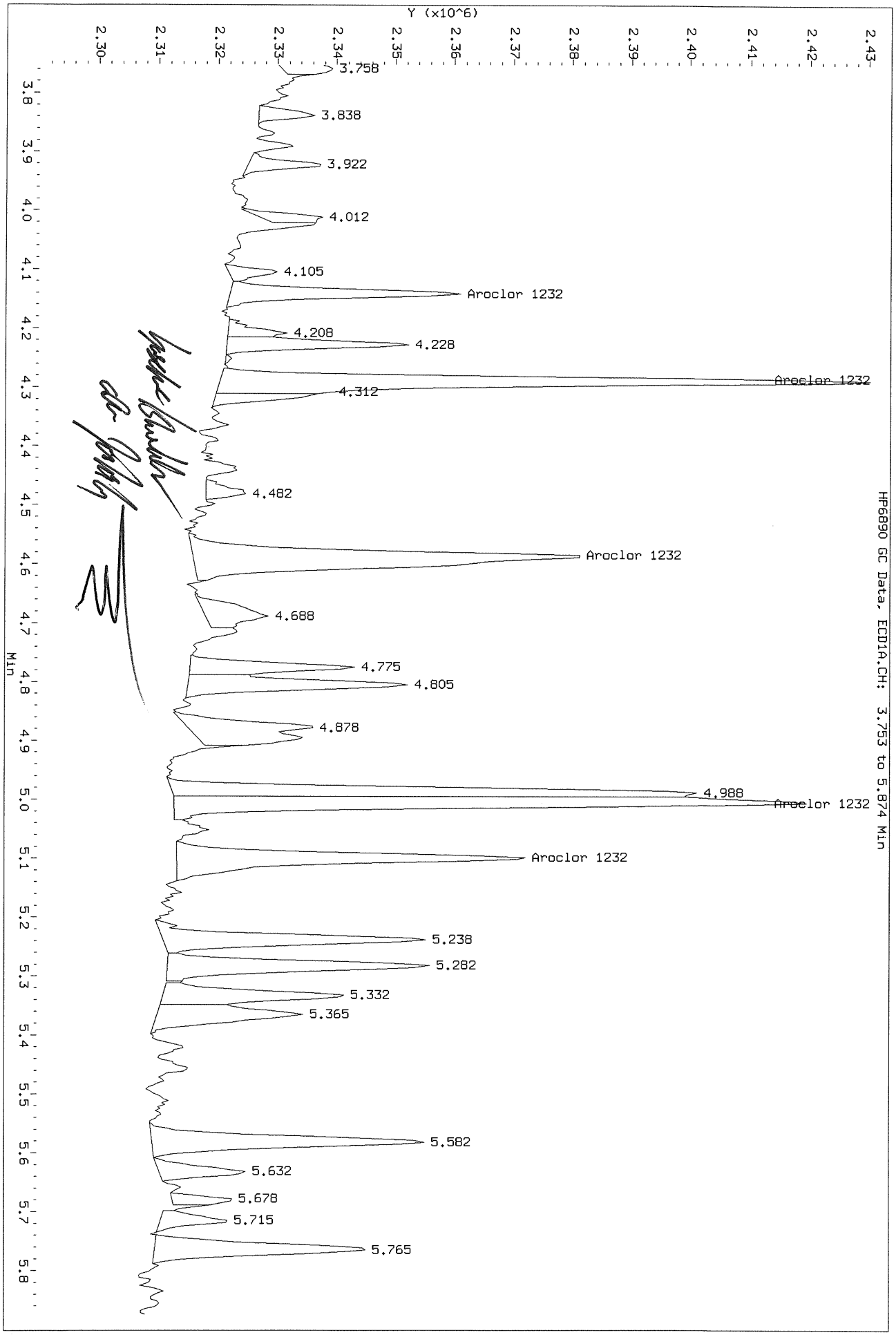
Column phase: DB-XLB

Column diameter: 0.32

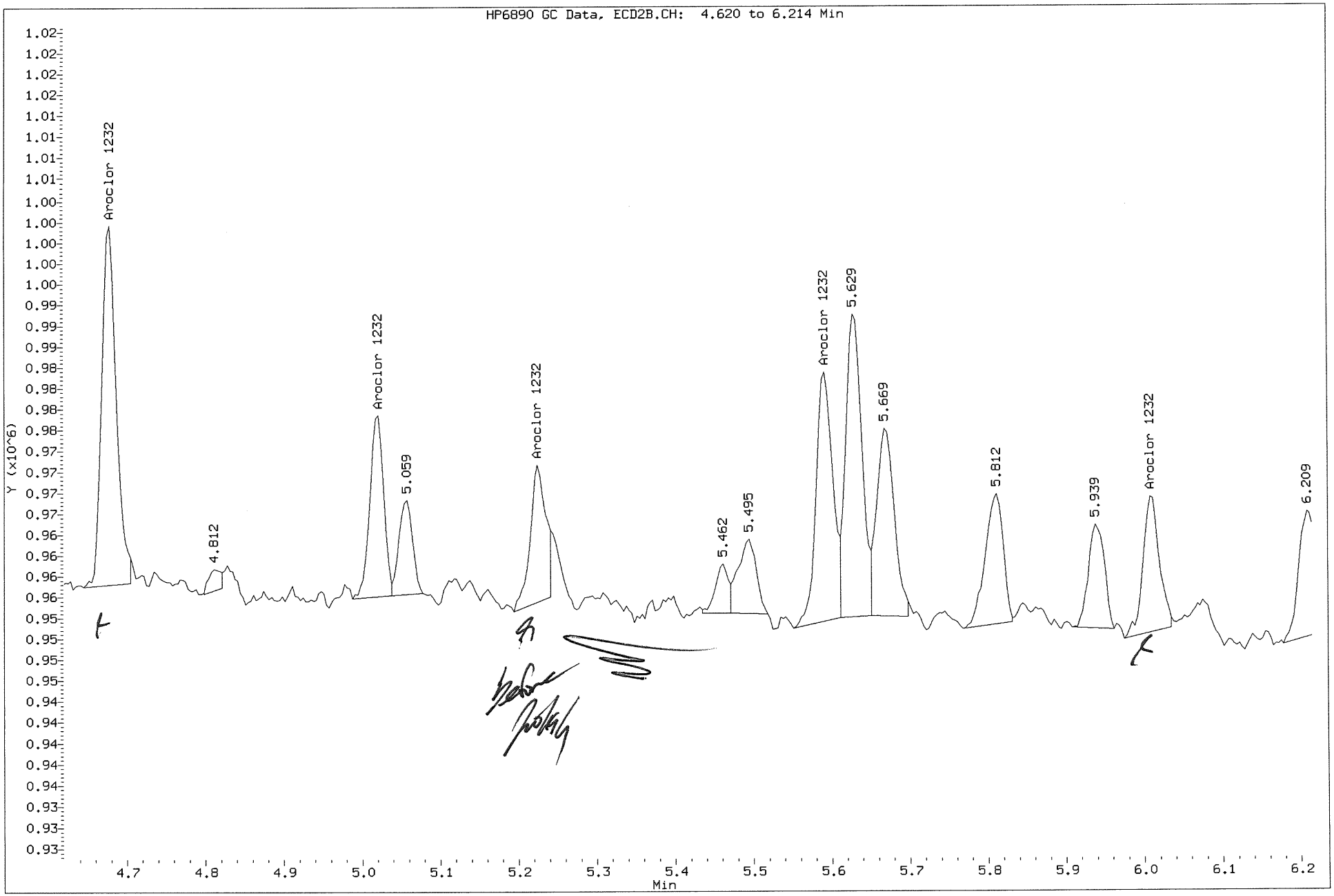


Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:

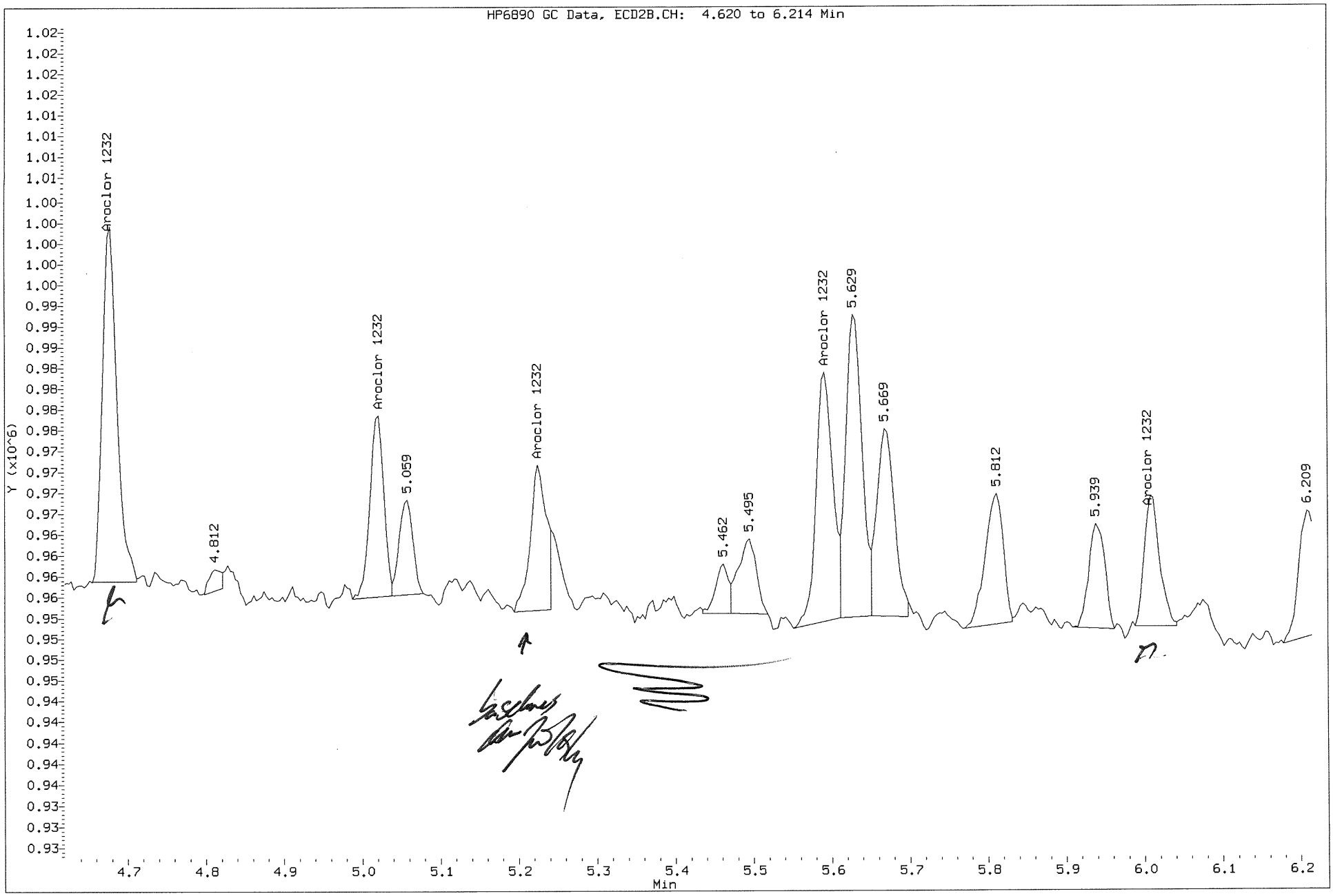



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 3.753 to 5.874 Min
Y (x10^6)
Min
3.758
3.838
3.922
4.012
4.105
Aroclor 1232
4.208
4.228
Aroclor 1232
4.312
4.482
Aroclor 1232
4.688
4.775
4.805
4.878
4.988
Aroclor 1232
Aroclor 1232
5.238
5.282
5.332
5.365
5.582
5.632
5.678
5.715
5.765

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

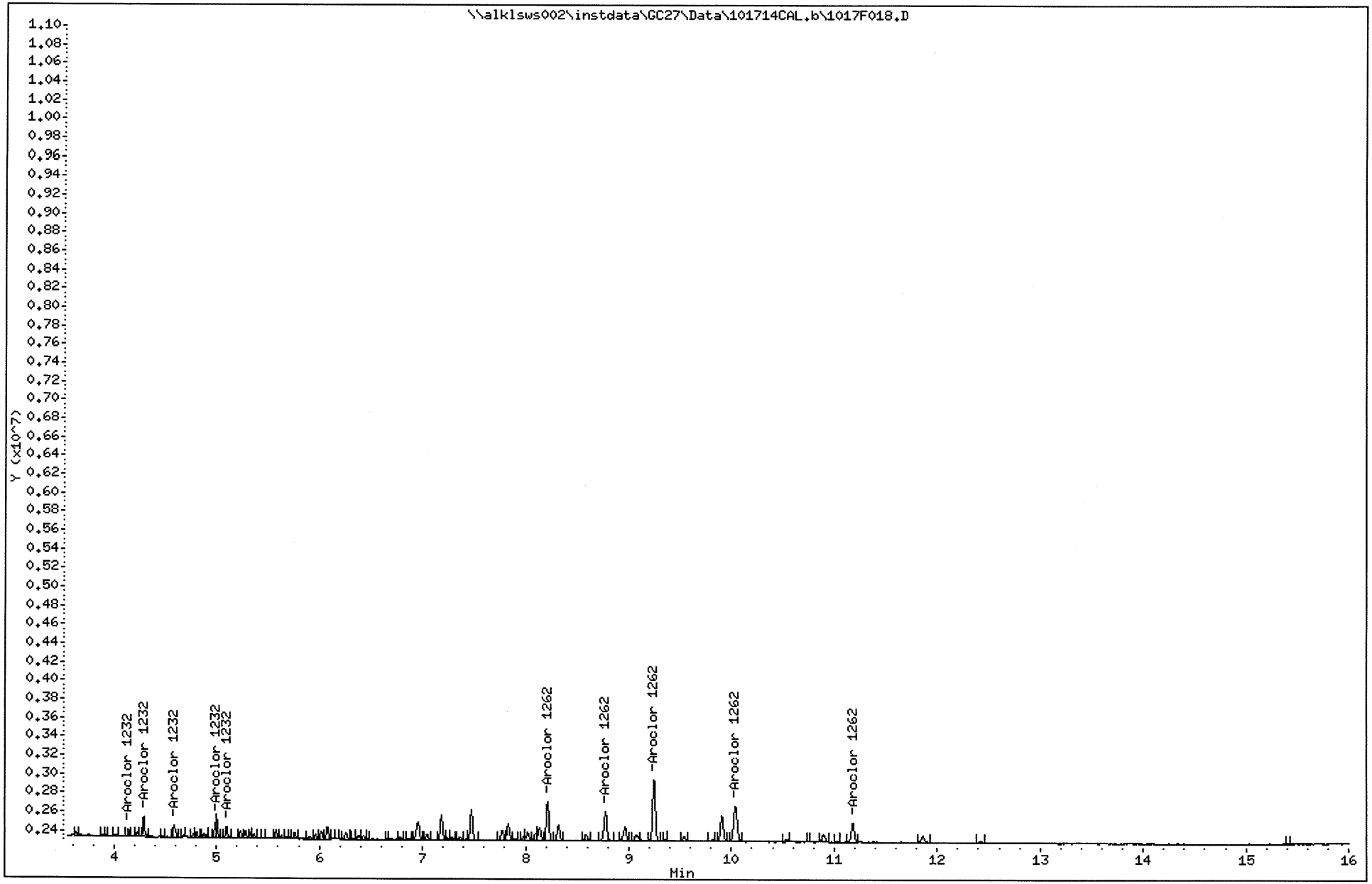
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

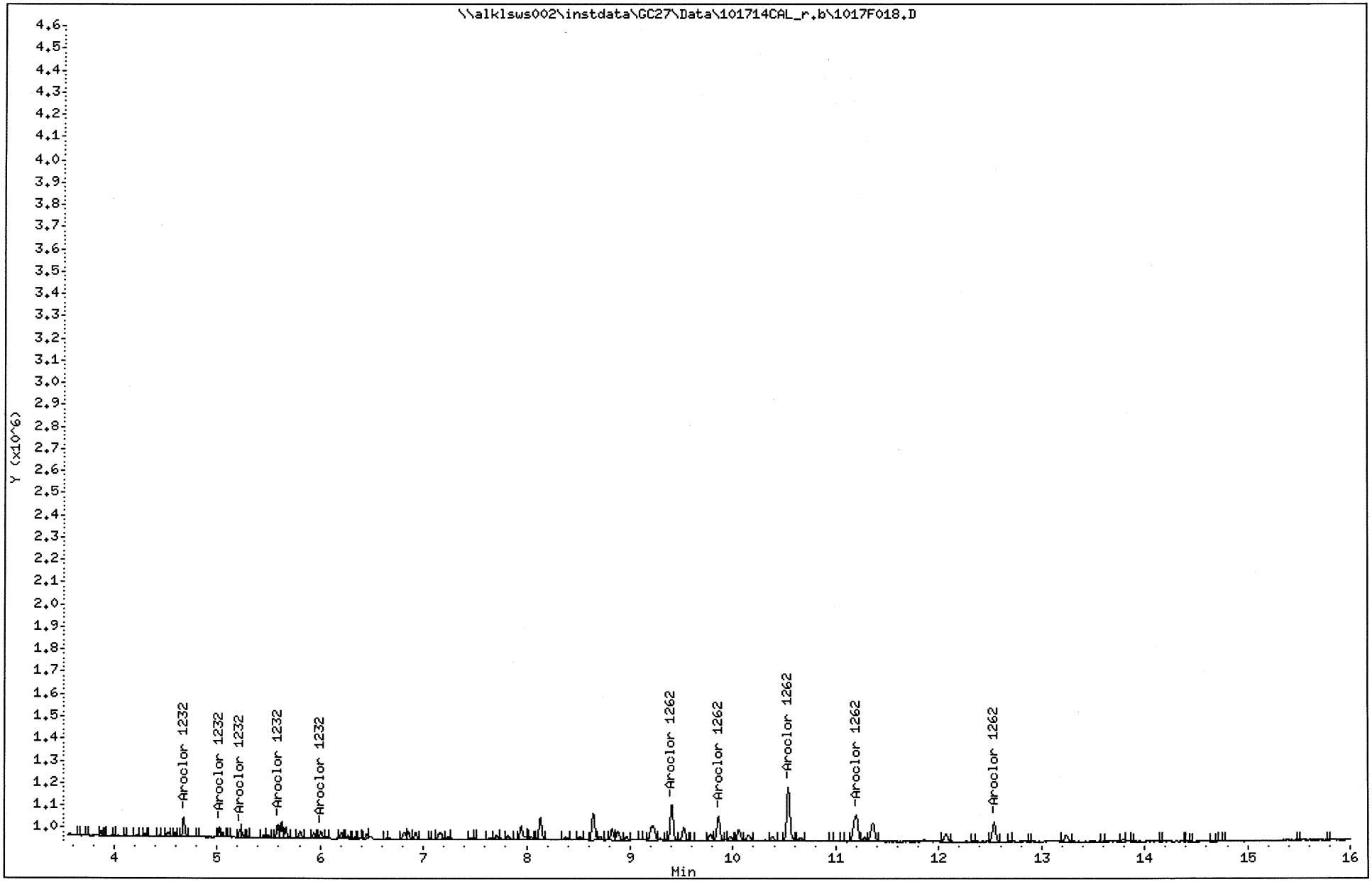
Column phase: DB-35MS

Column diameter: 0.32

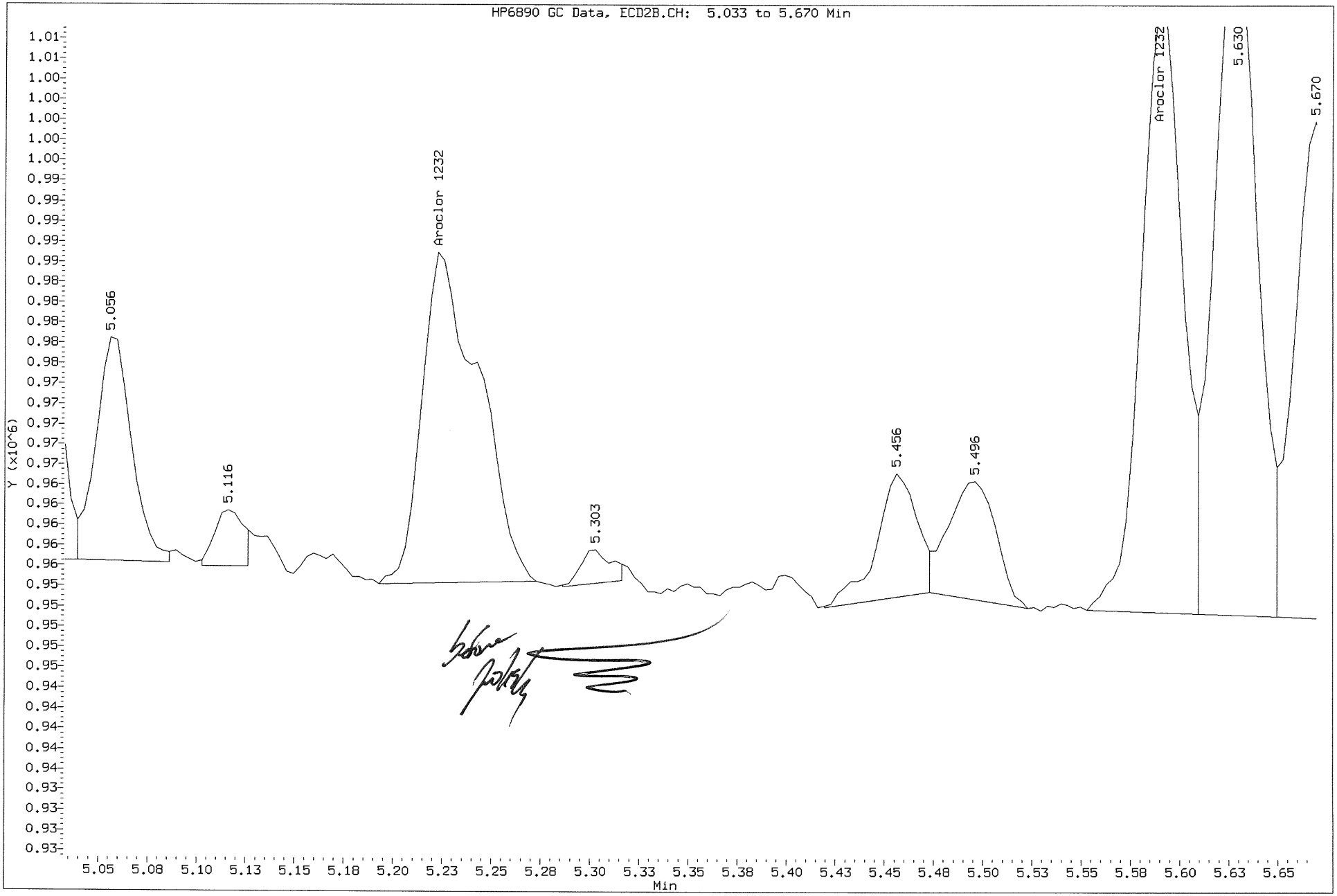


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

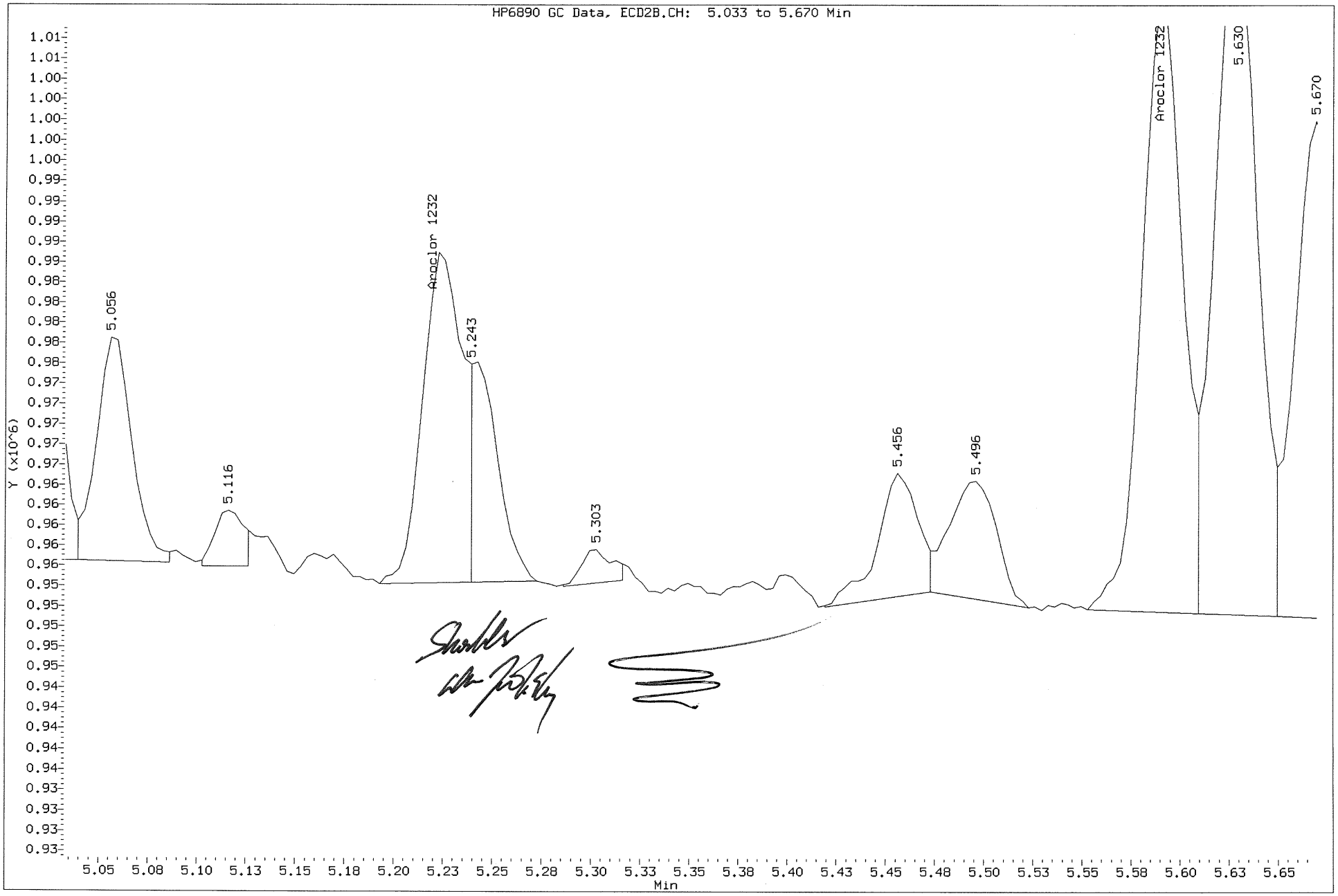
Instrument: GC27.i
Operator: JMSmith
Column phase: DB-XLB
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

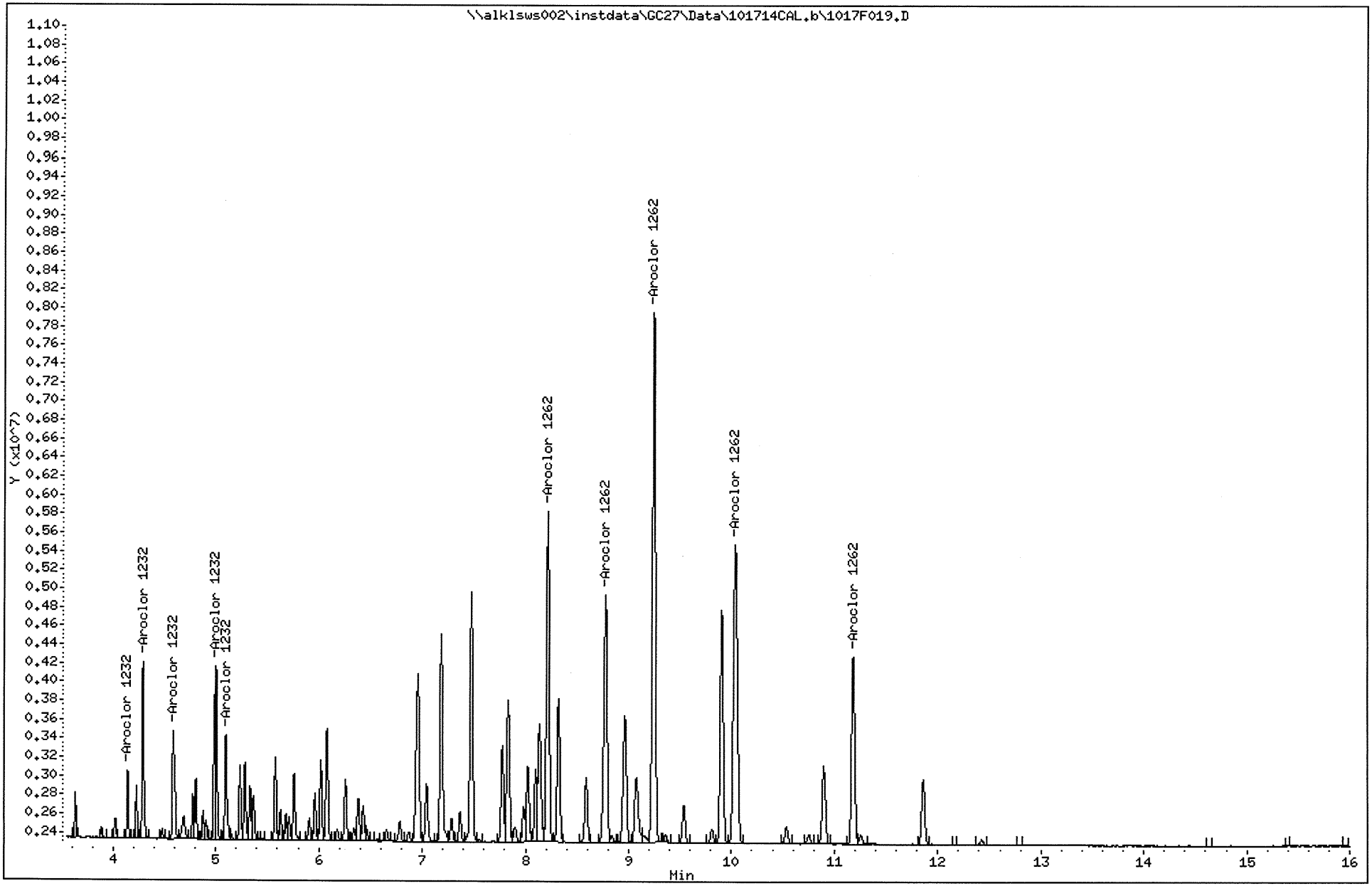
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



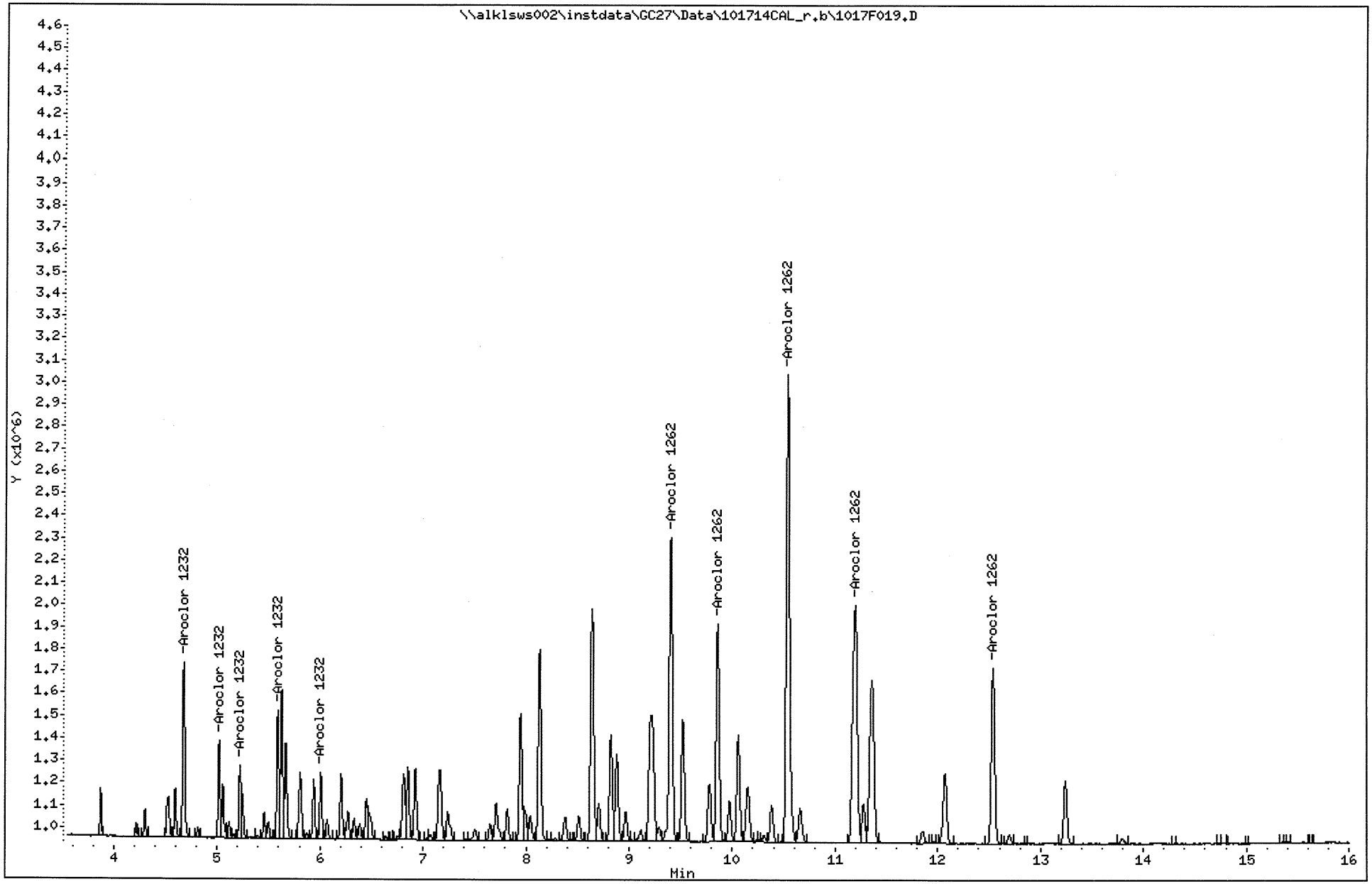
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

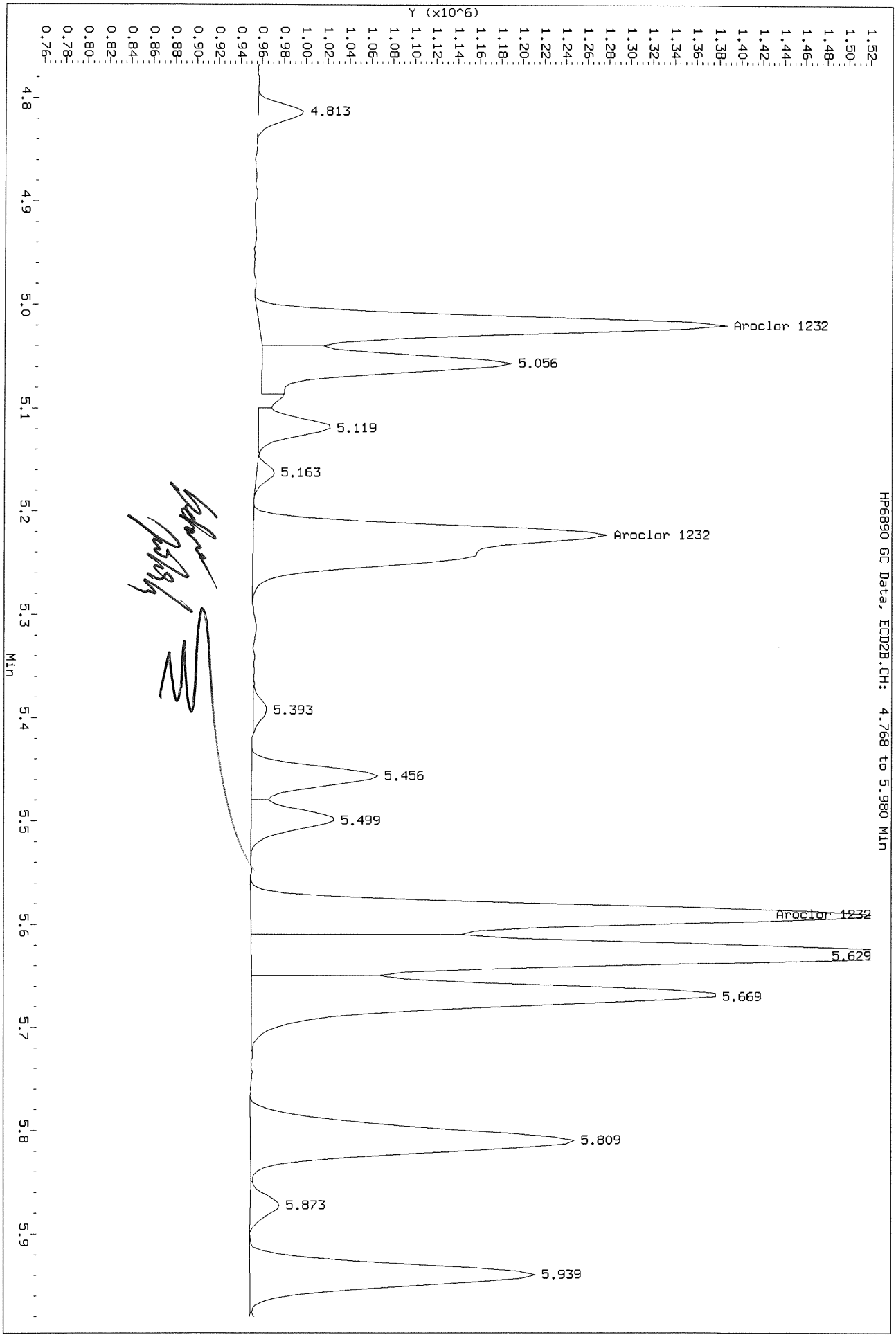
Column phase: DB-XLB

Column diameter: 0.32

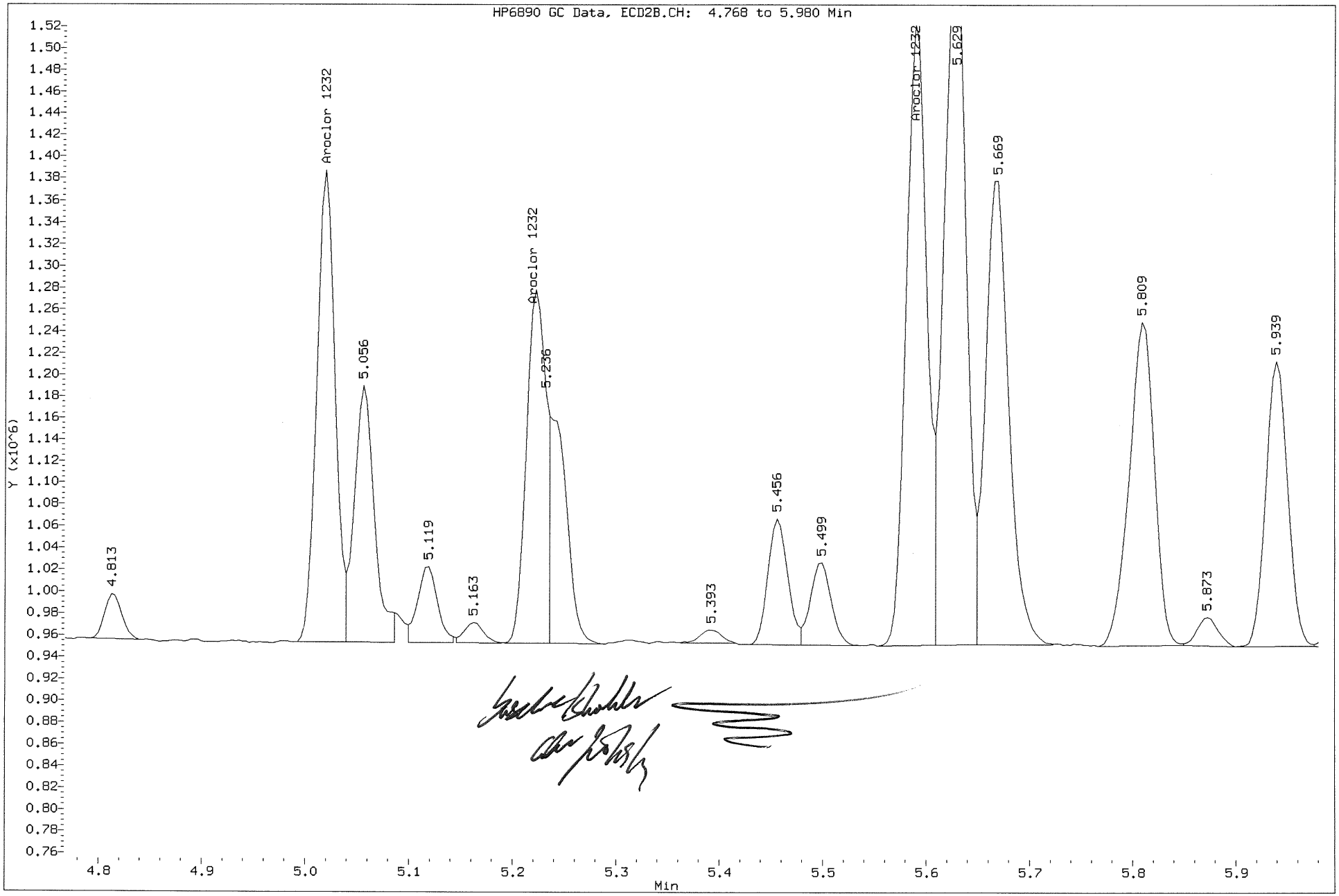


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

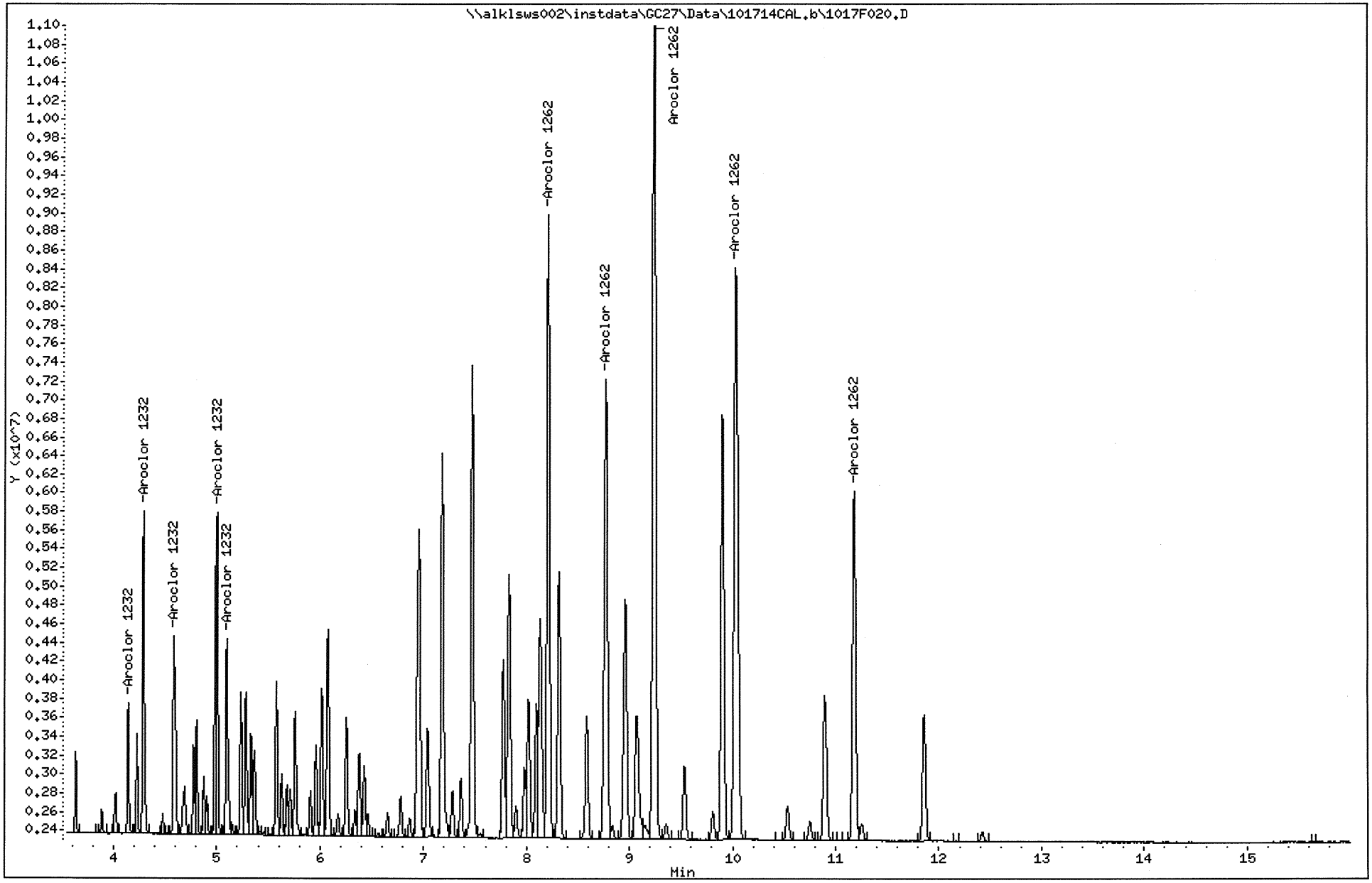
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

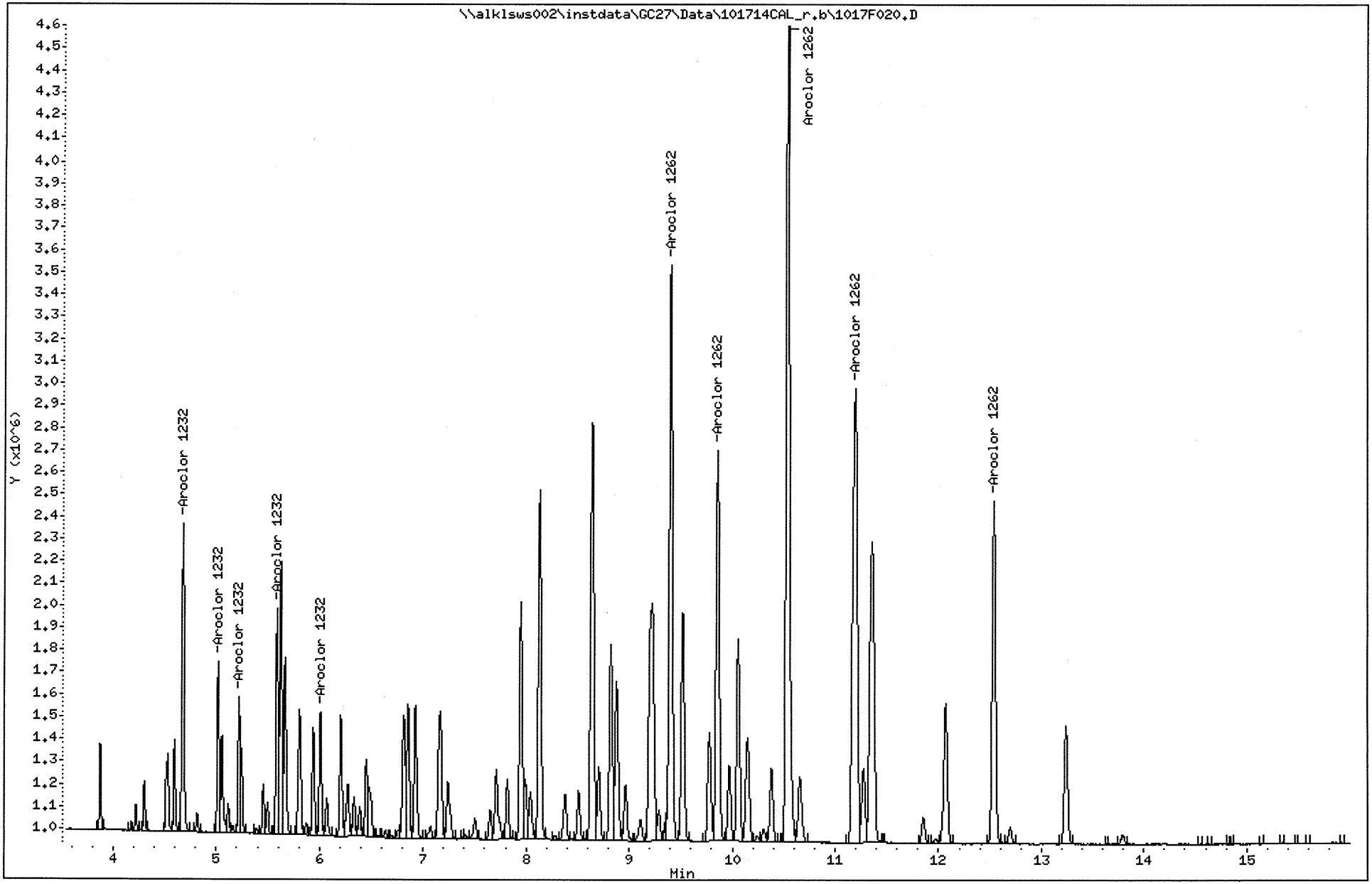


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

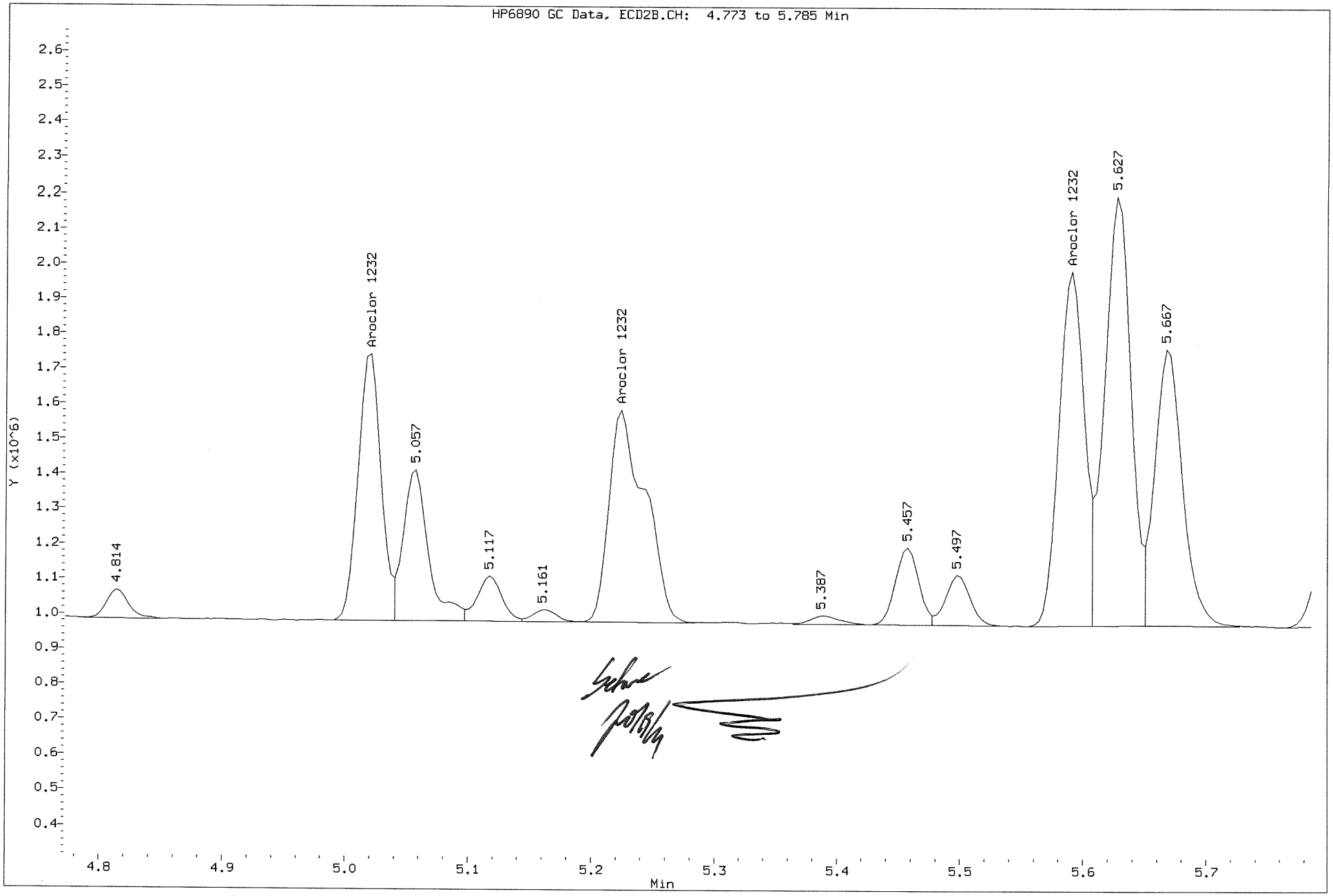
Column phase: DB-XLB

Instrument: GC27.i

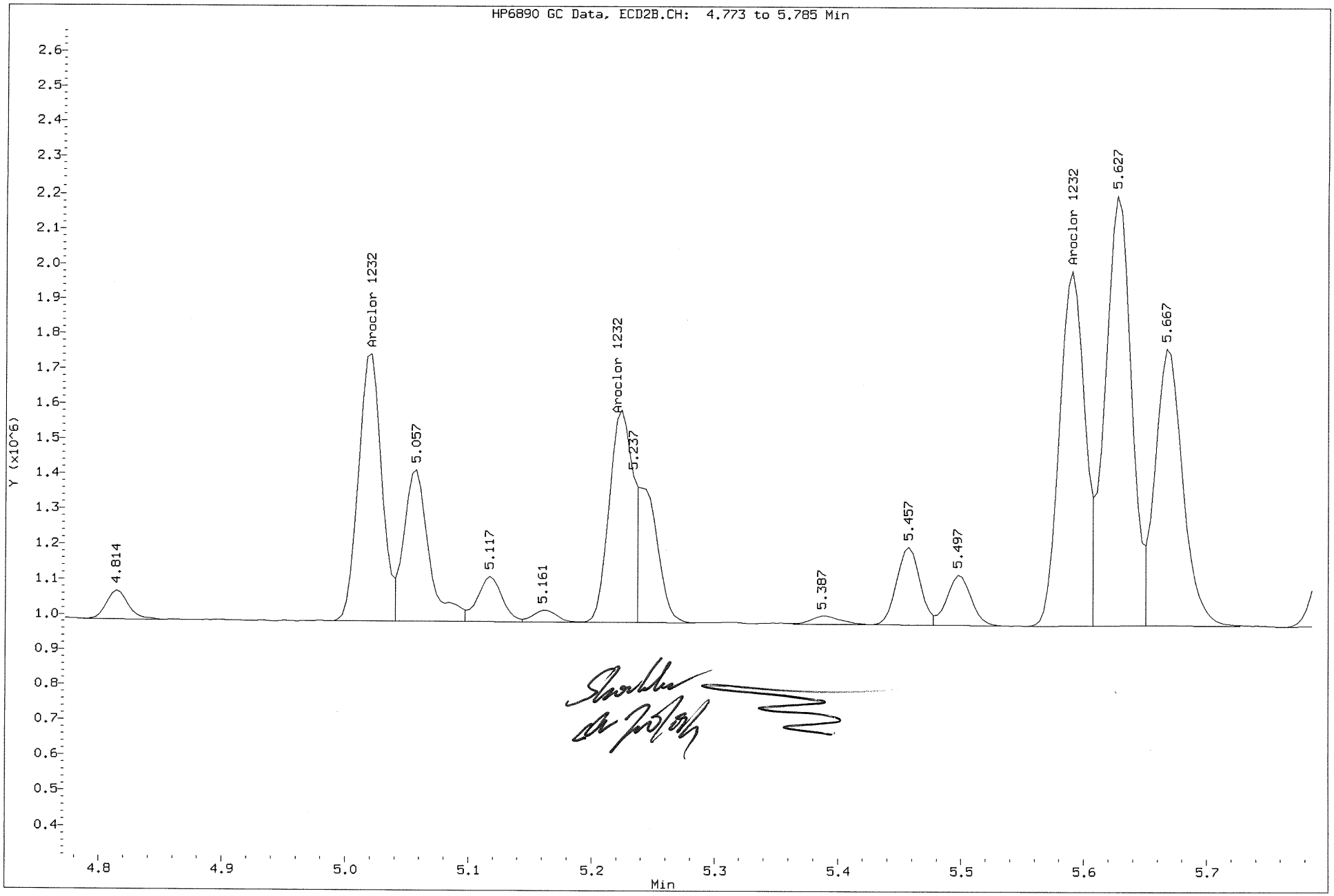
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

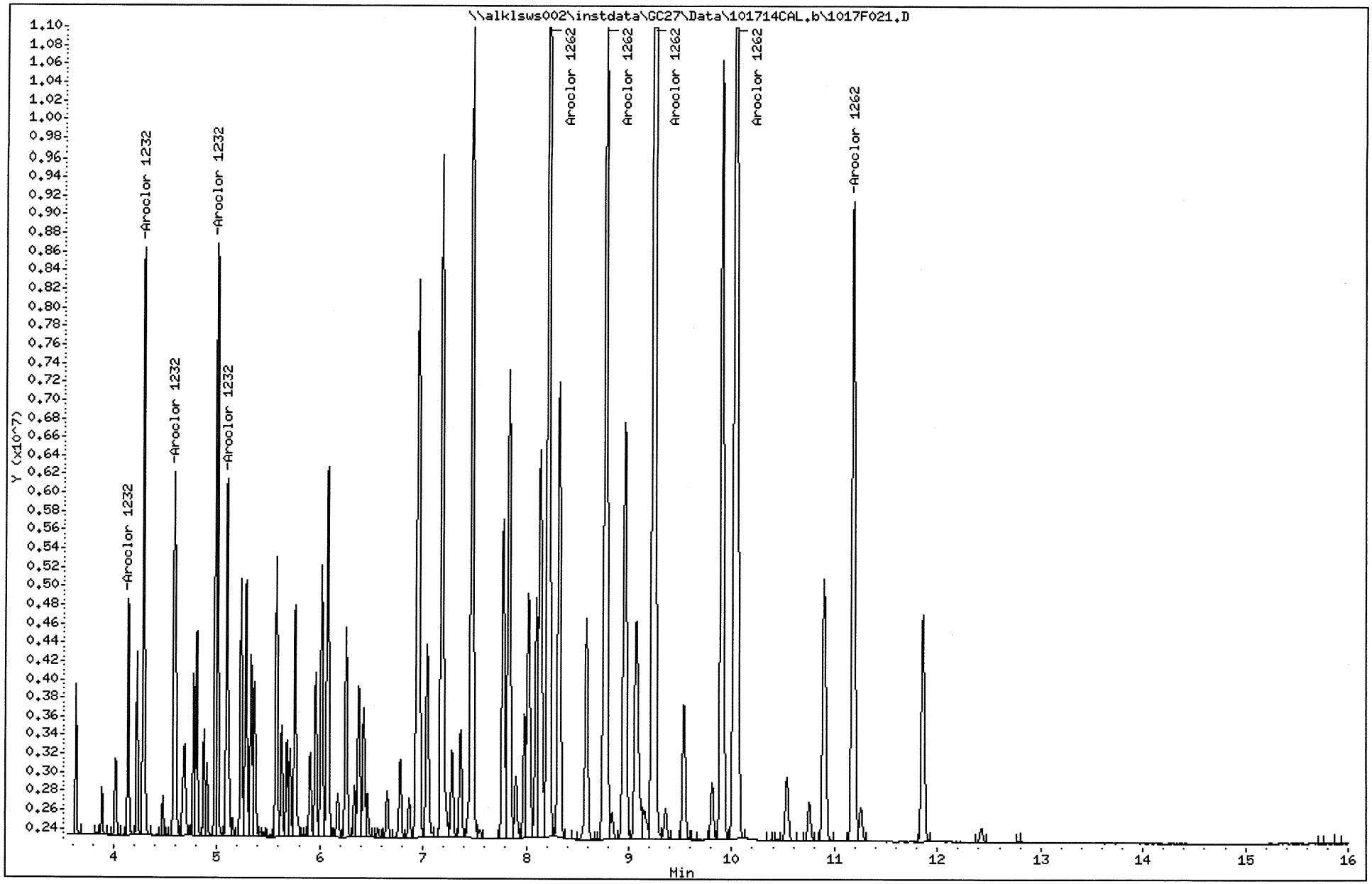
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

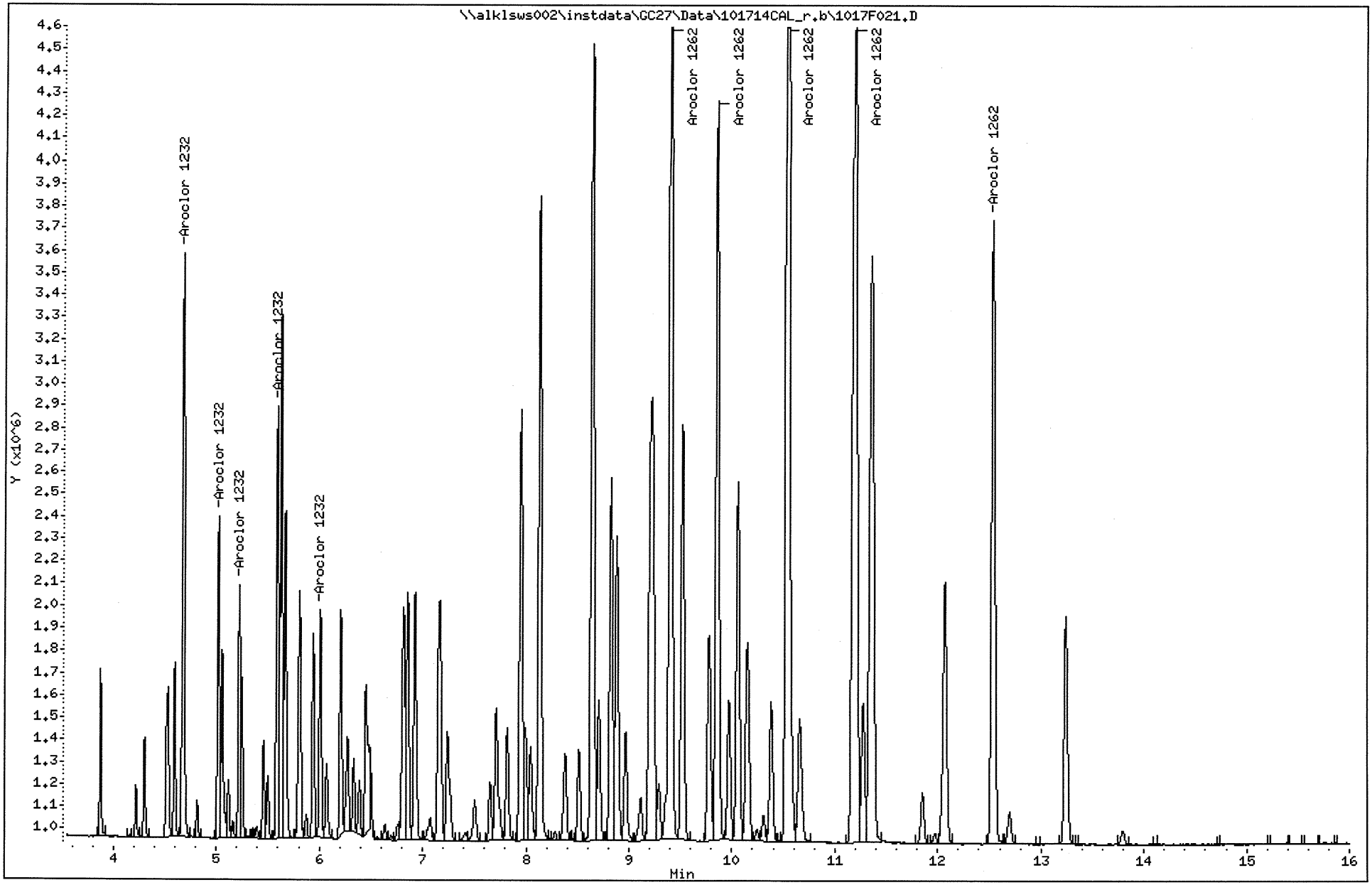


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

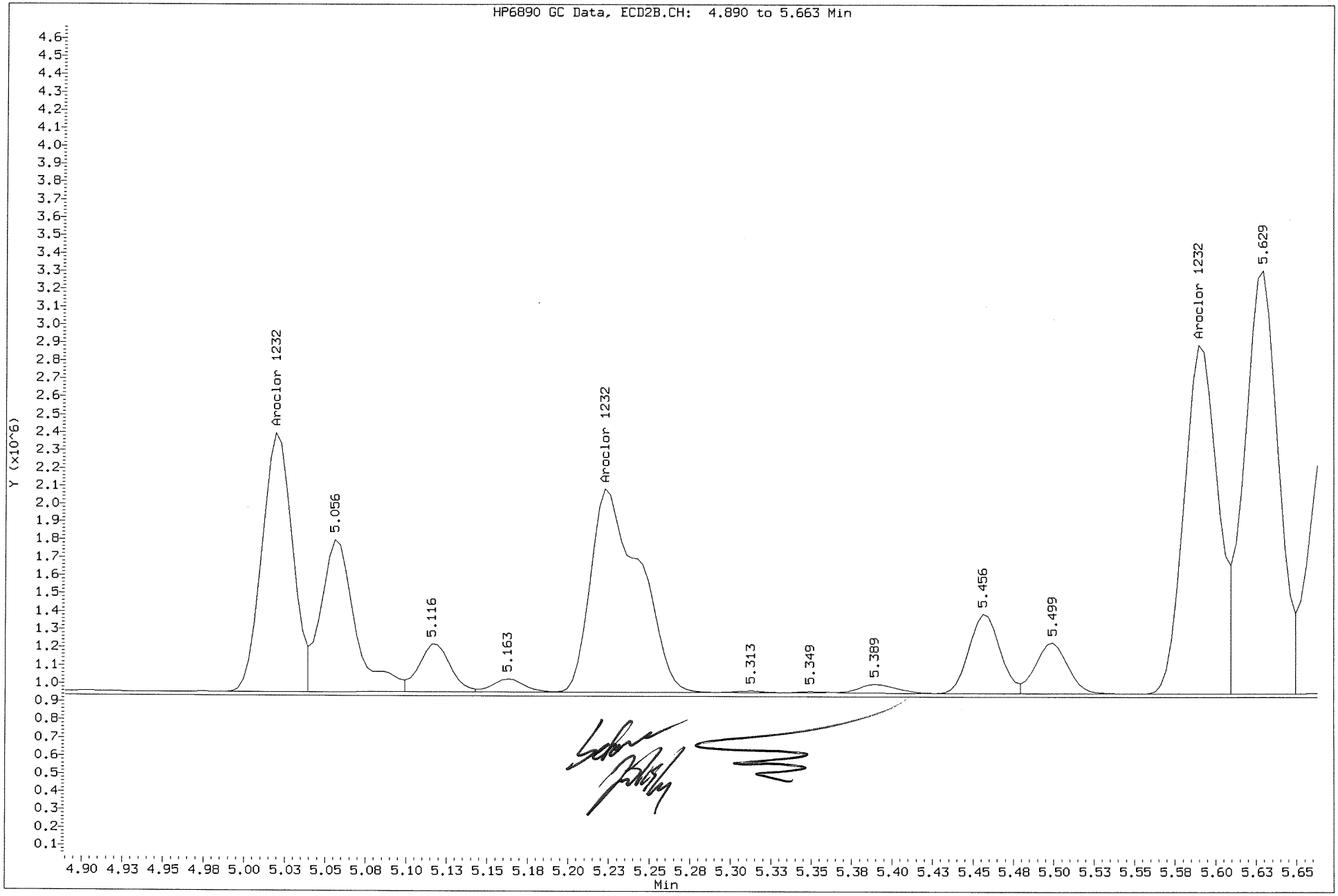
Column phase: DB-XLB

Instrument: GC27.i

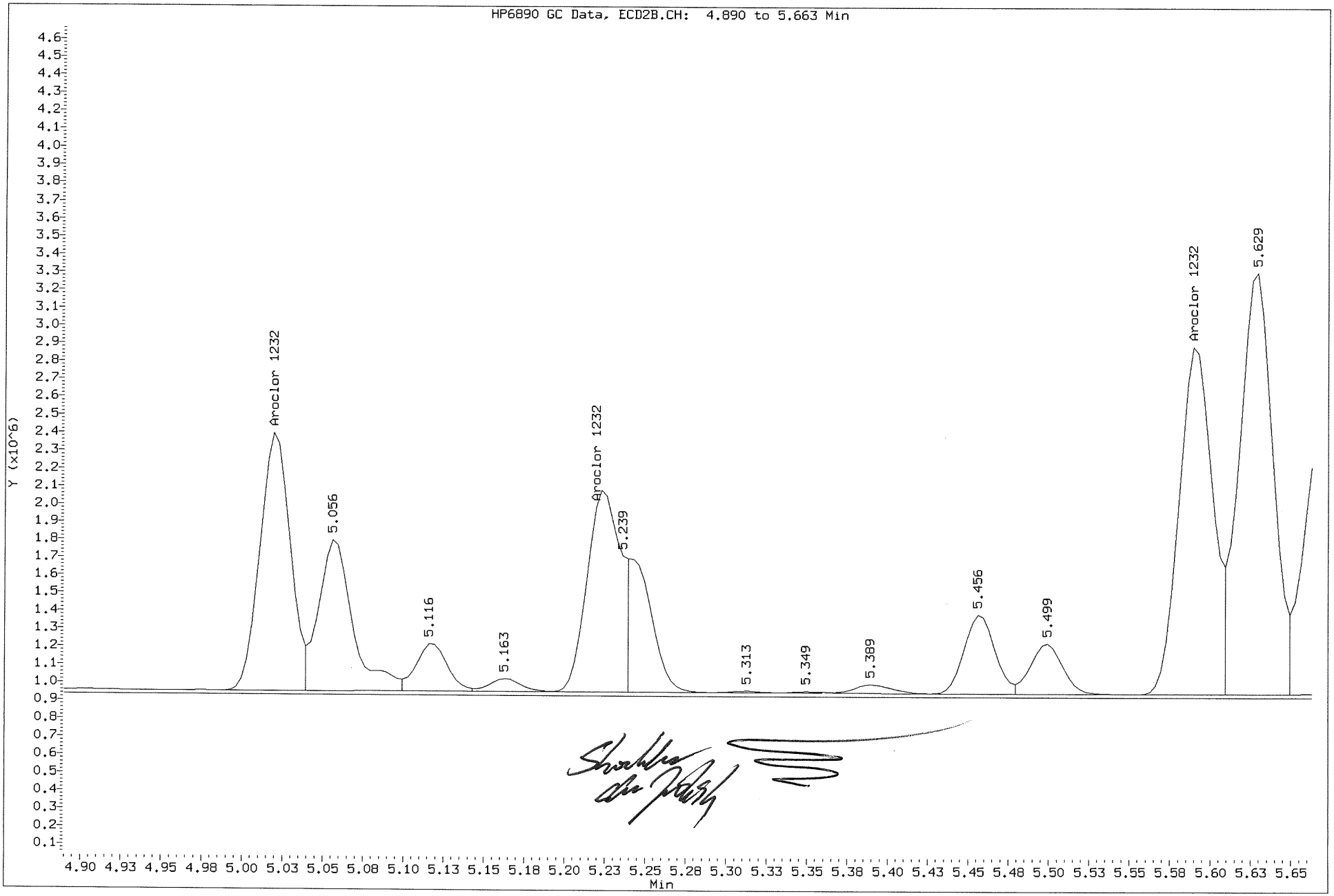
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

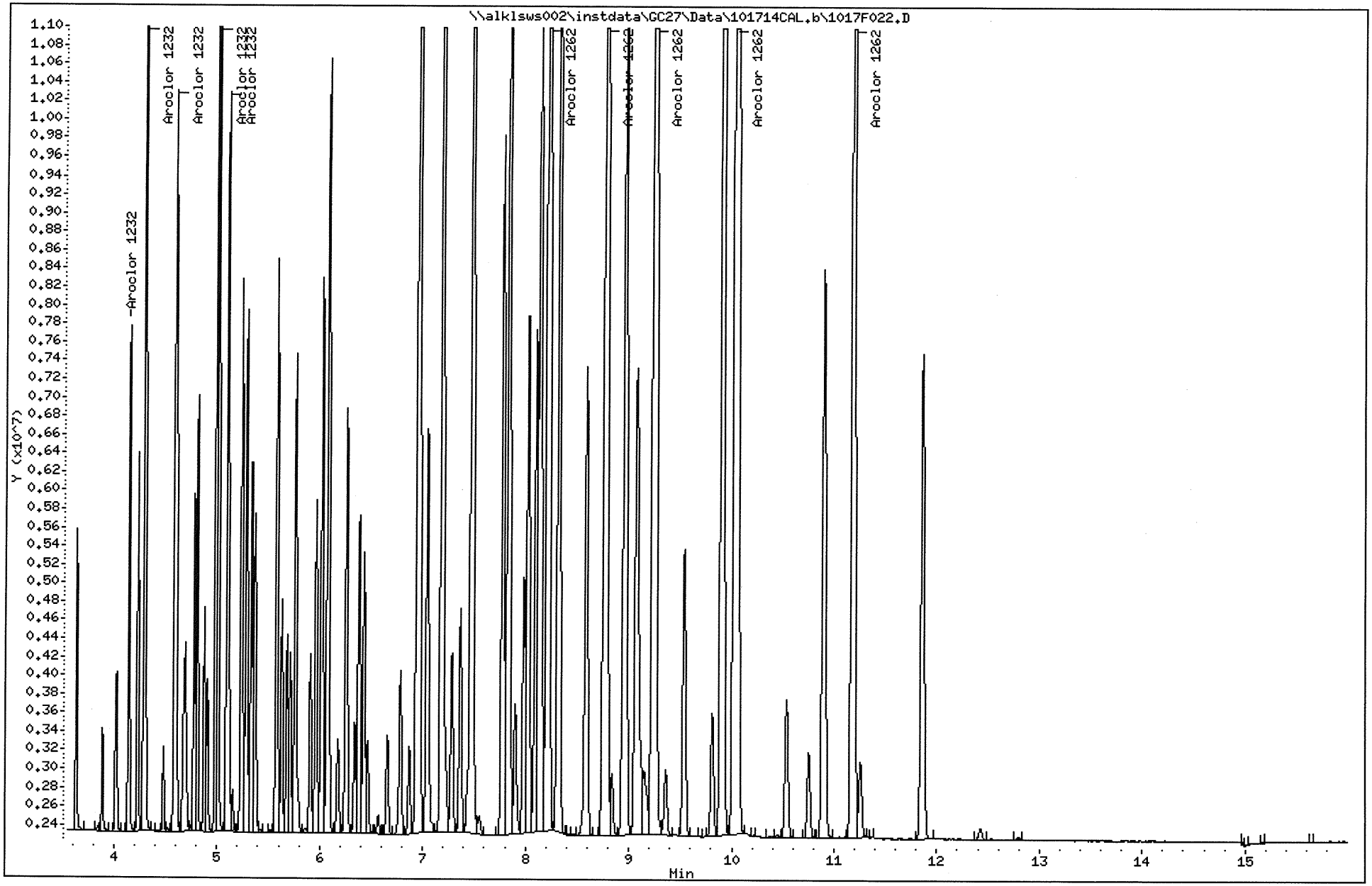
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



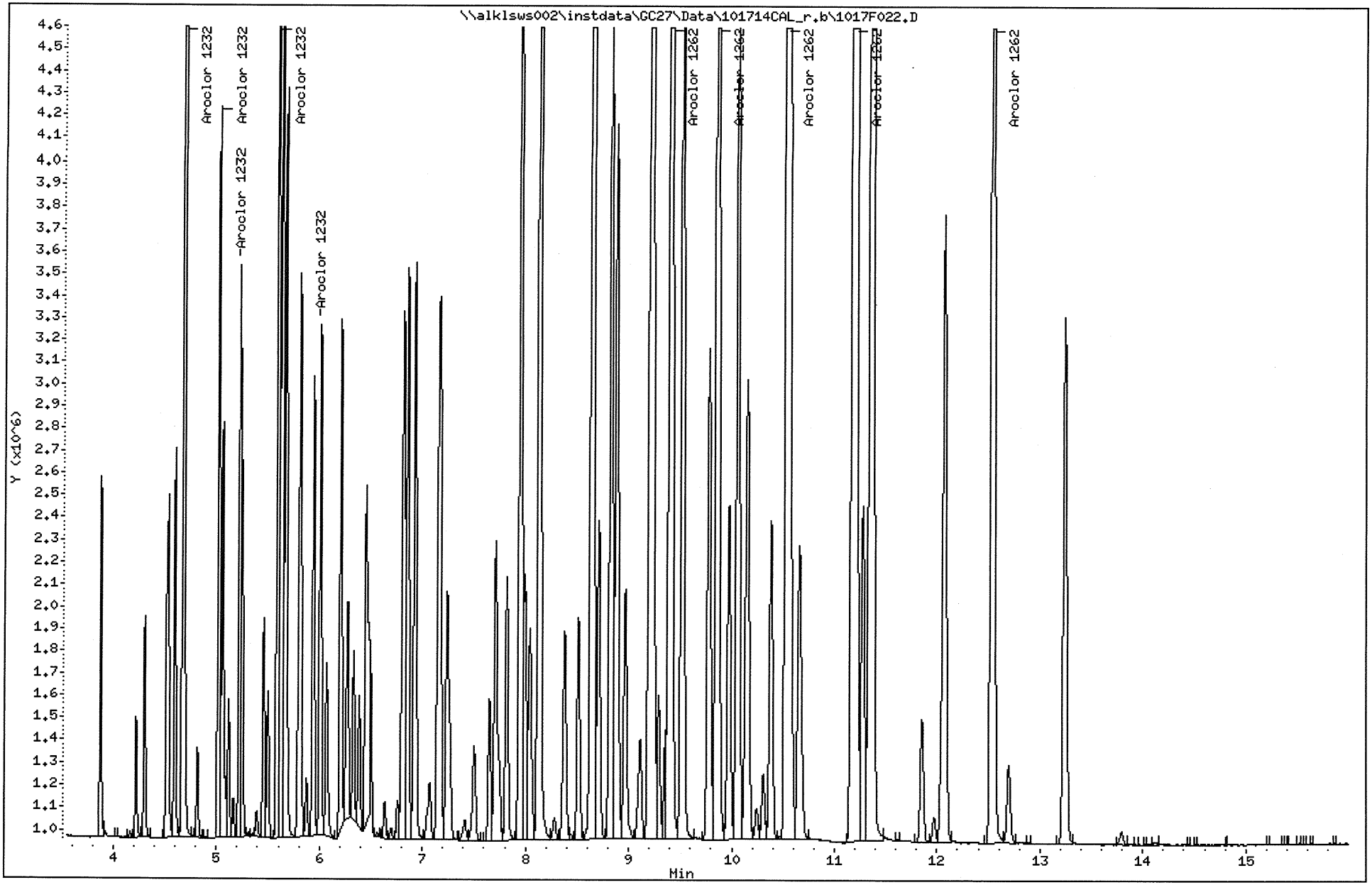
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

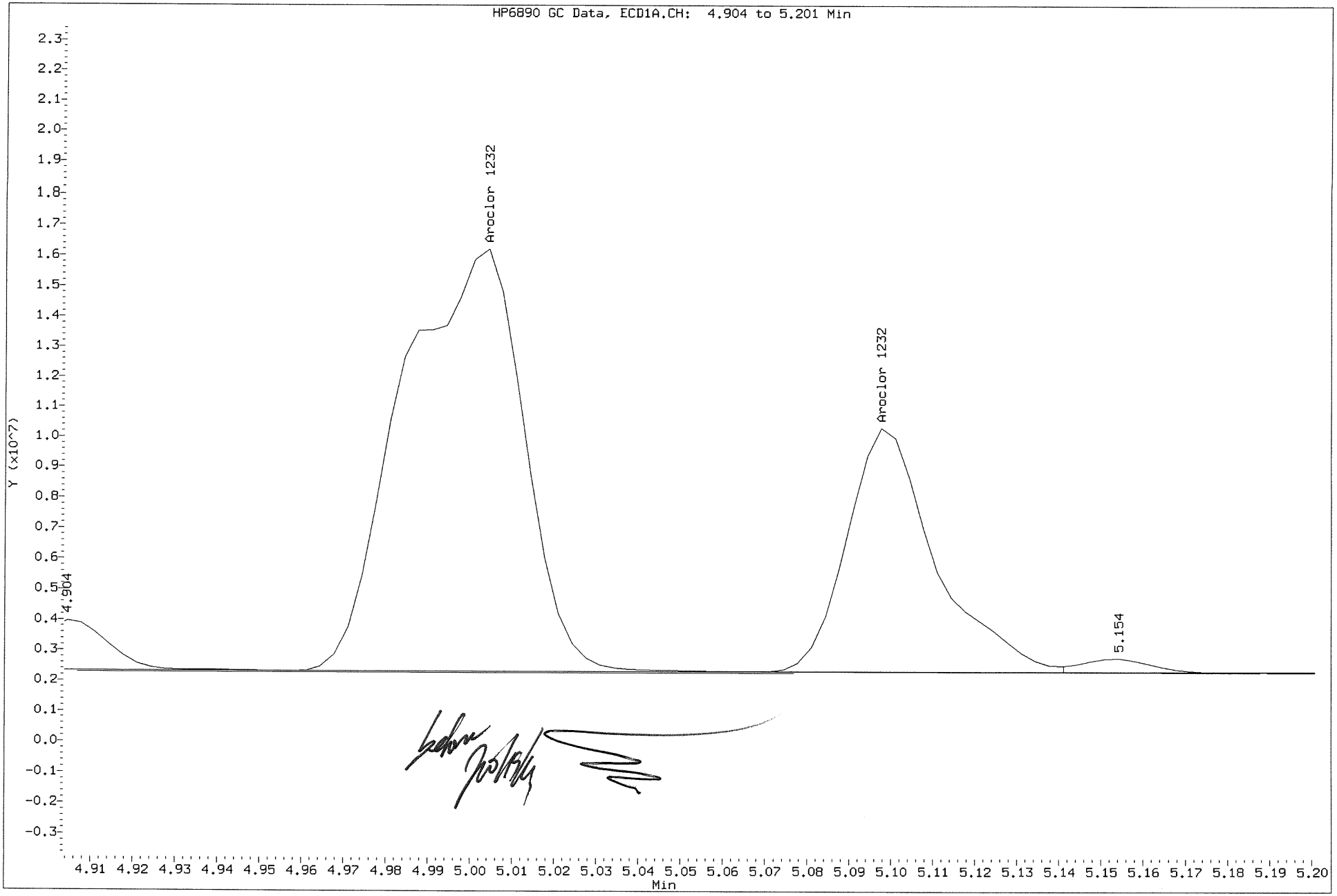
Operator: JMSmith

Column phase: DB-XLB

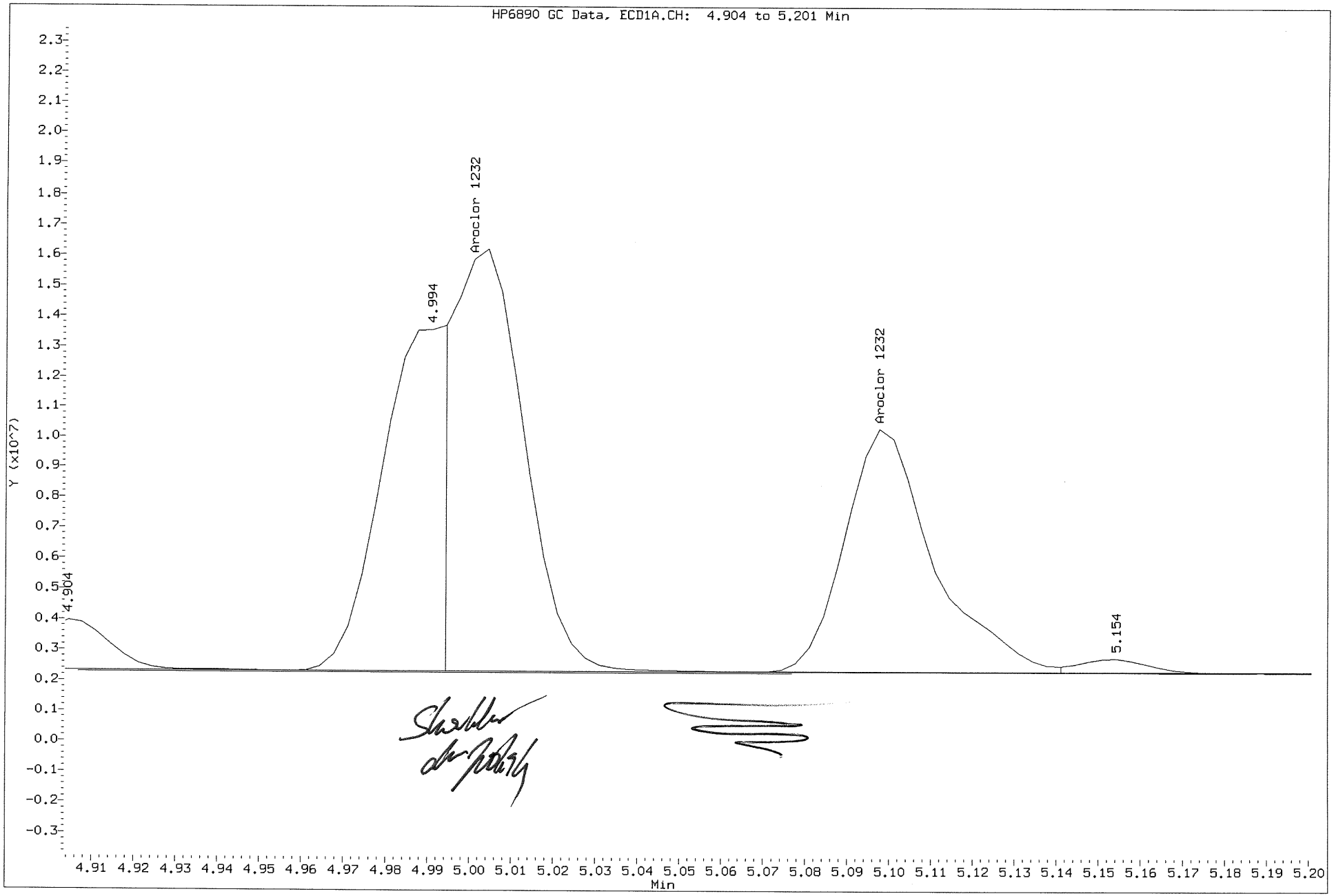
Column diameter: 0.32



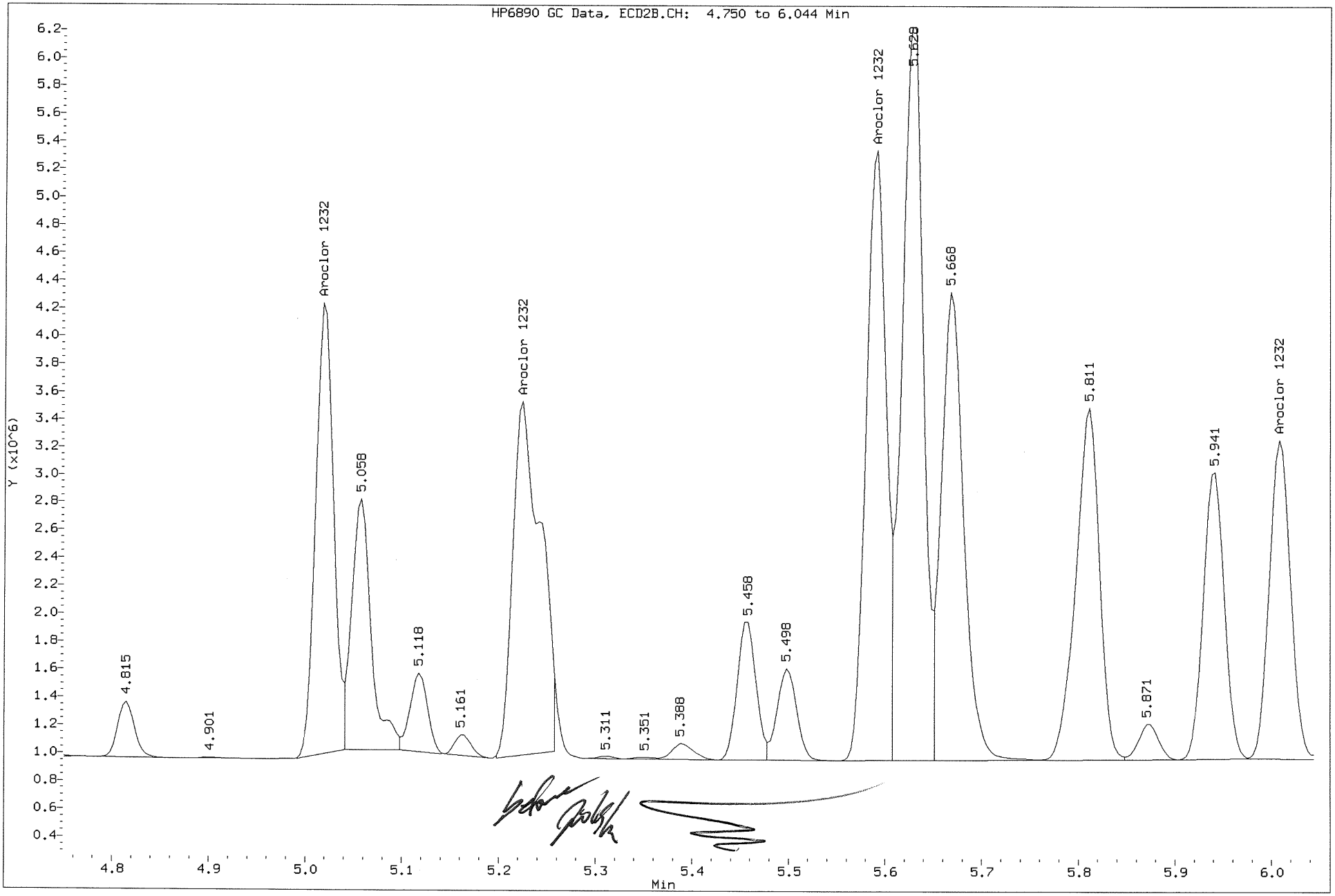
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



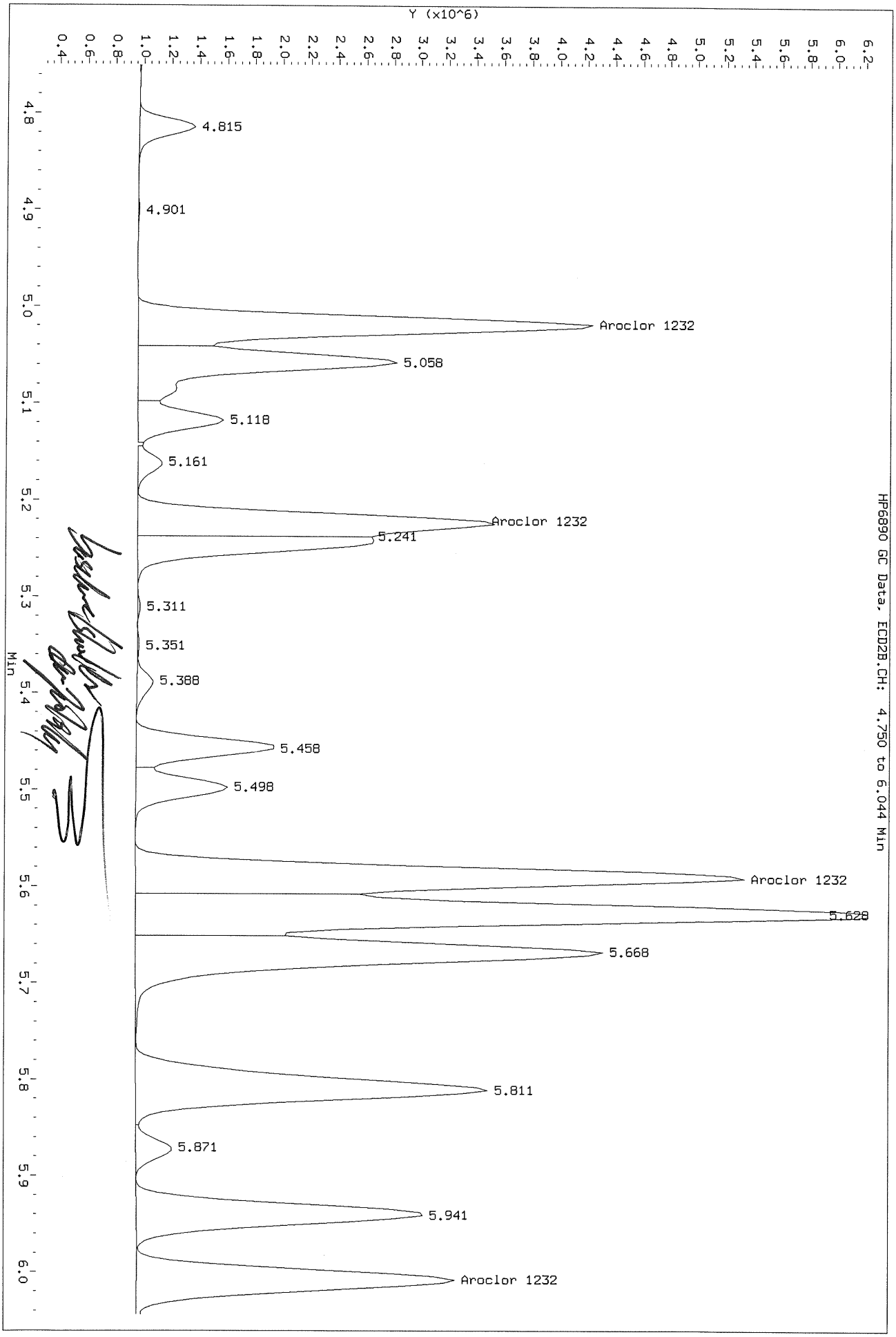
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.750 to 6.044 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

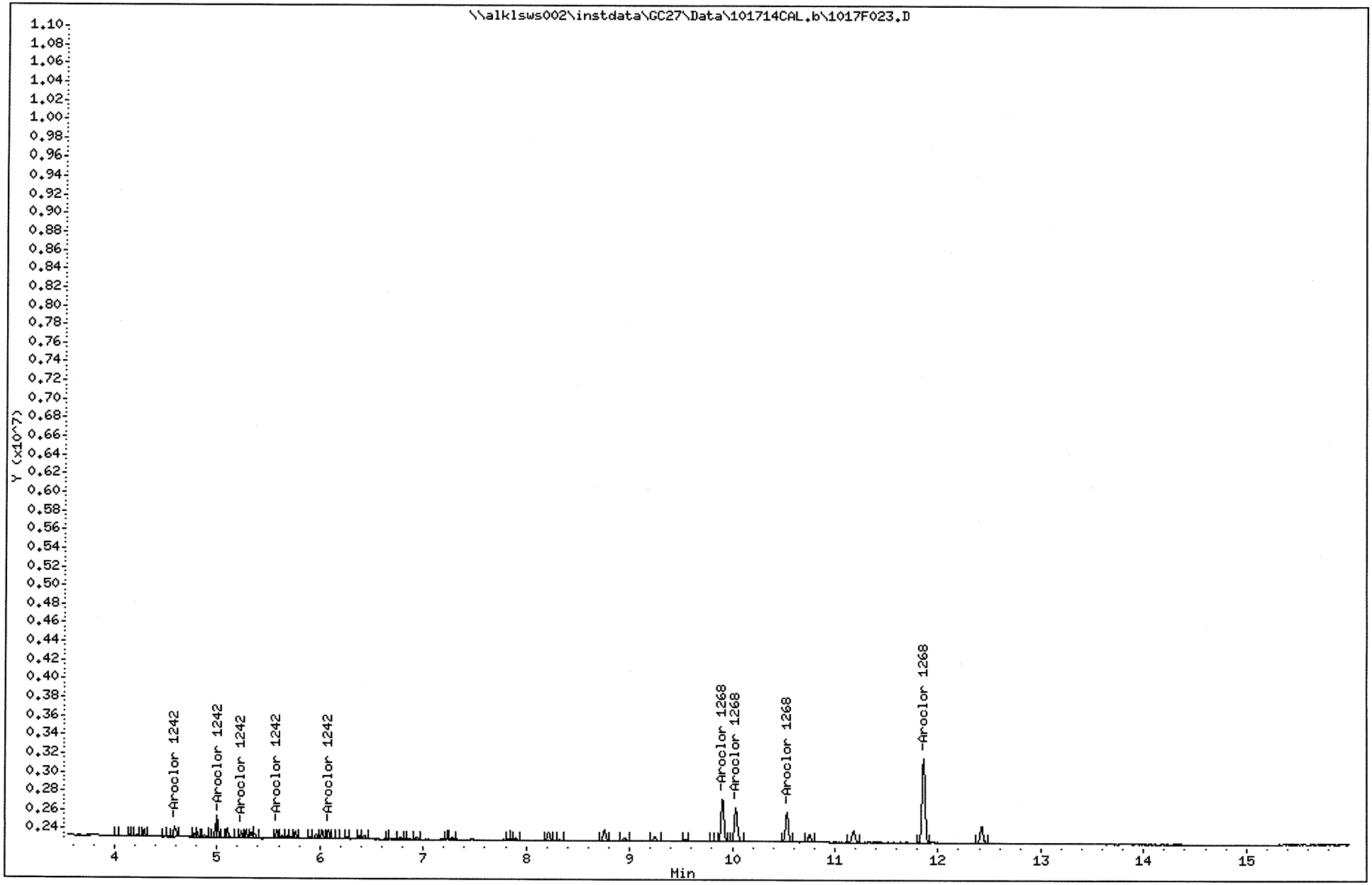
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



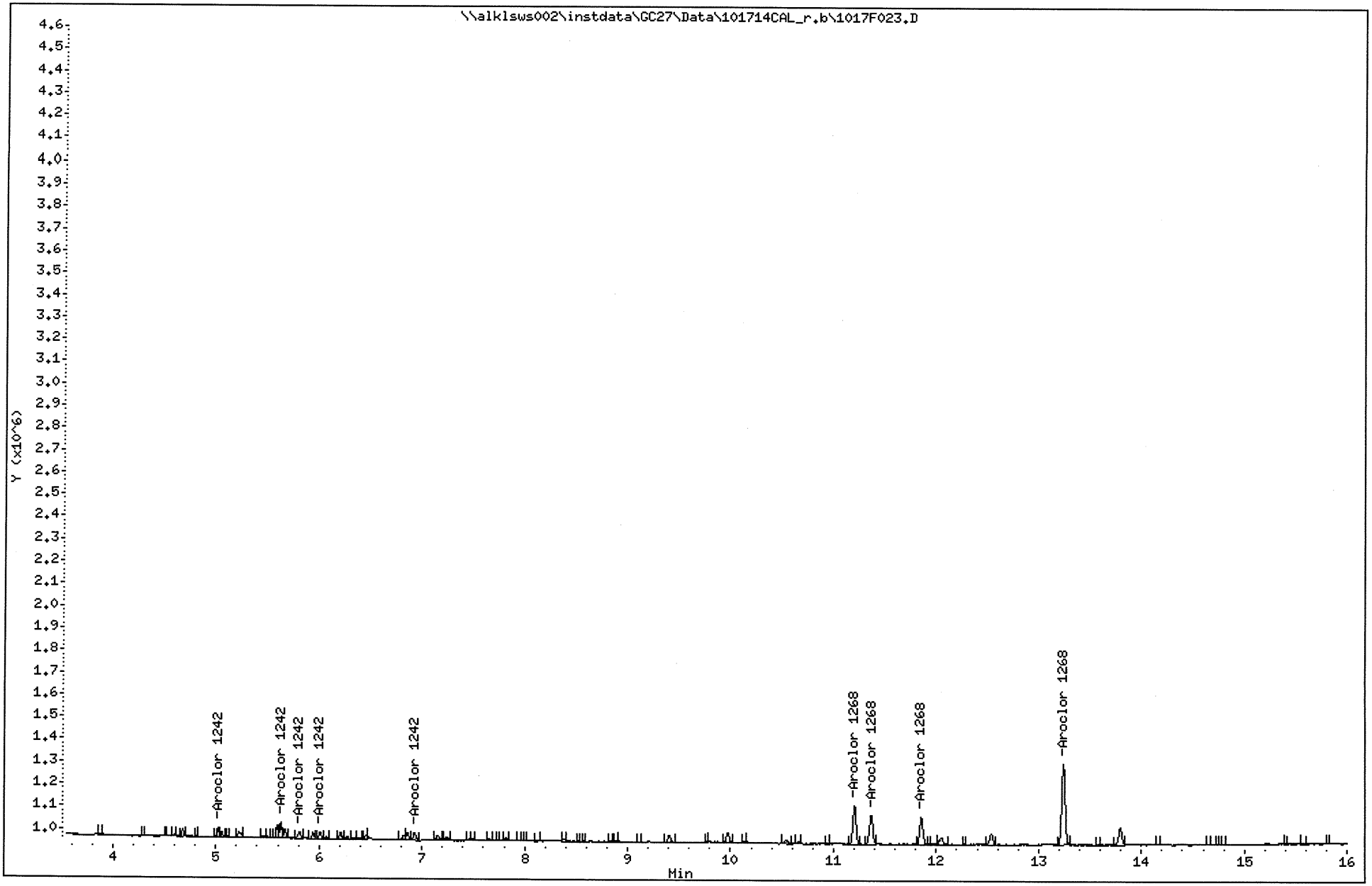
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
		Average of Peak Amounts =			56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
		Average of Peak Amounts =			59.0	52.4		

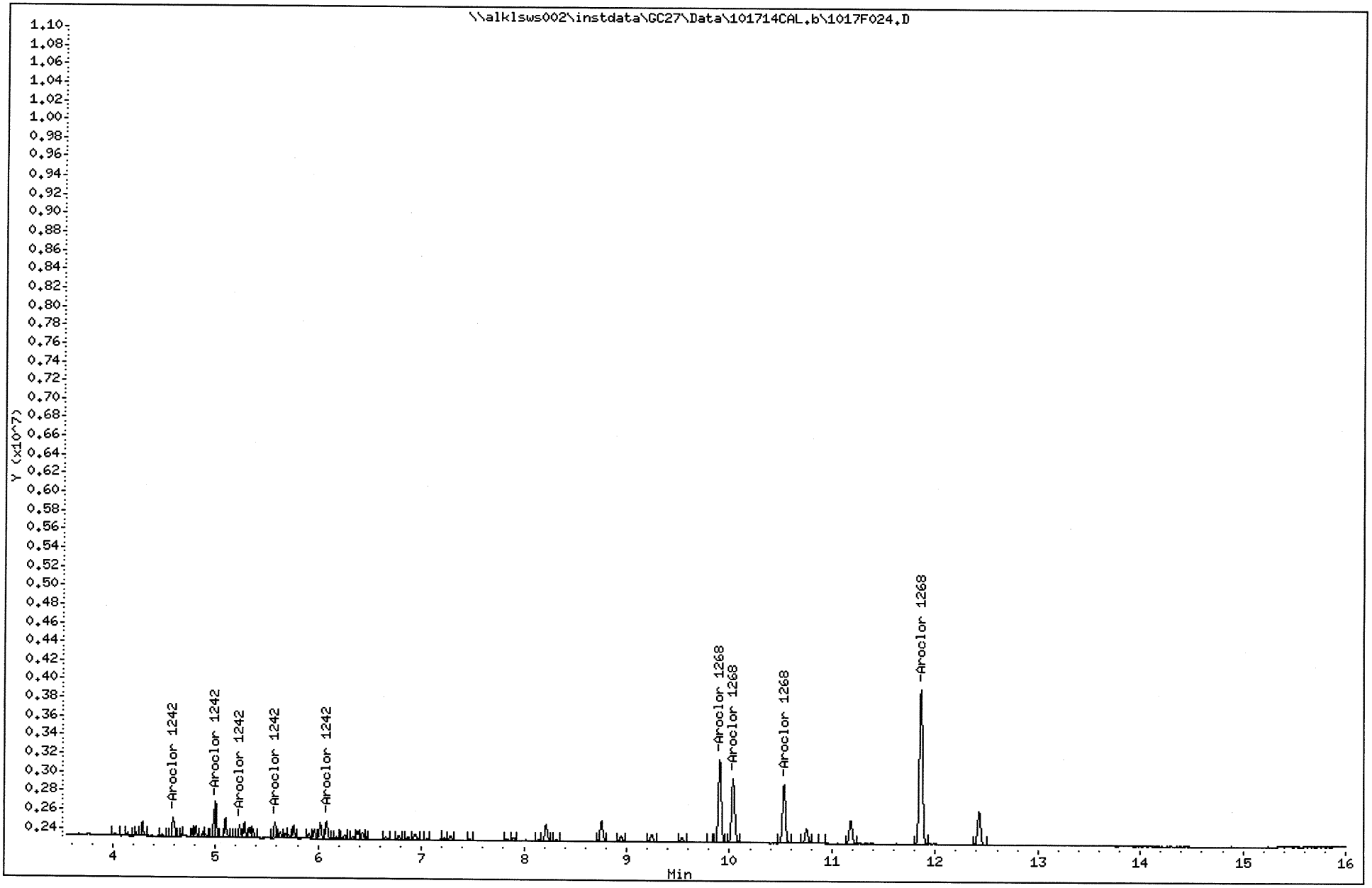
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



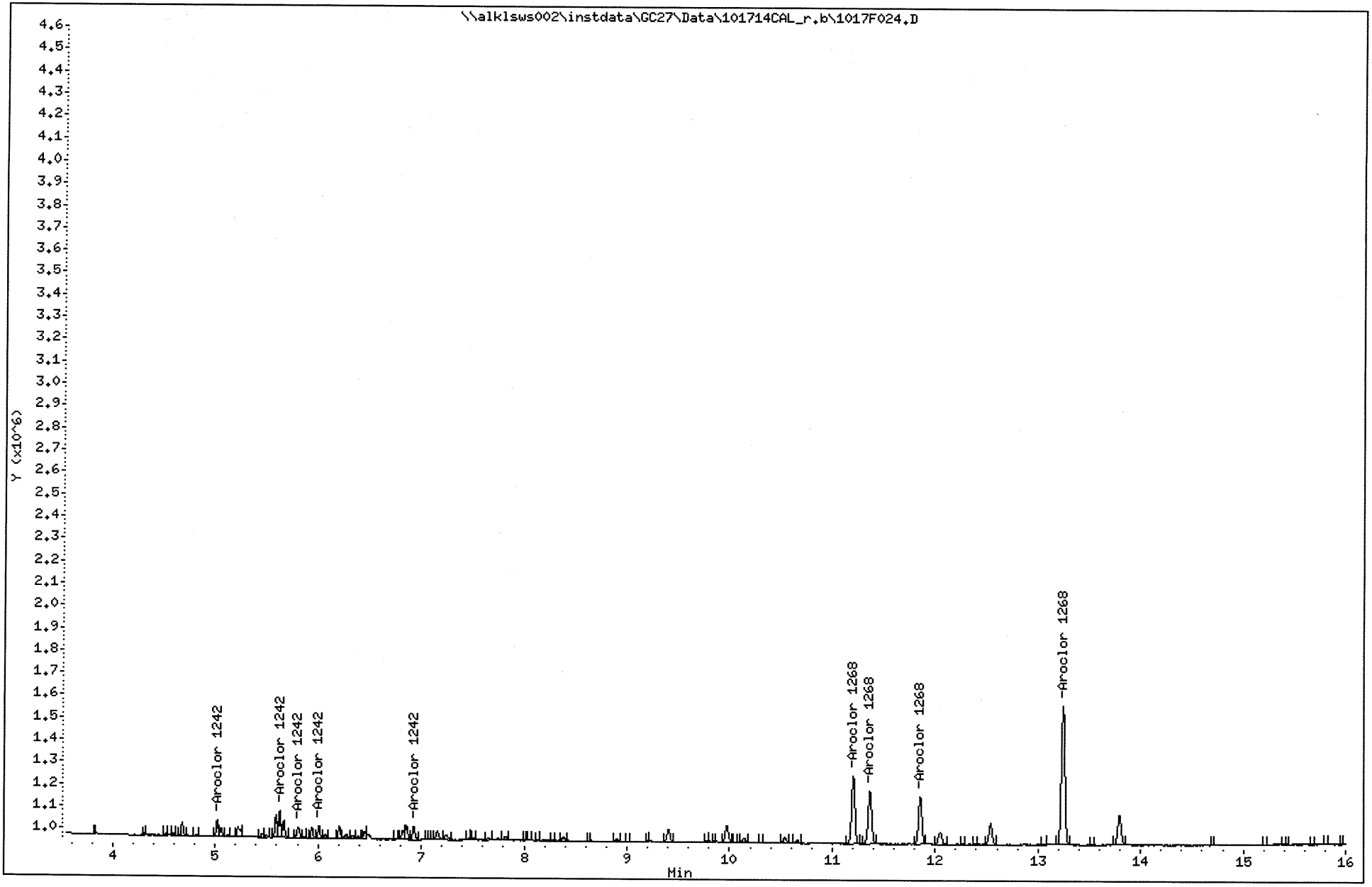
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

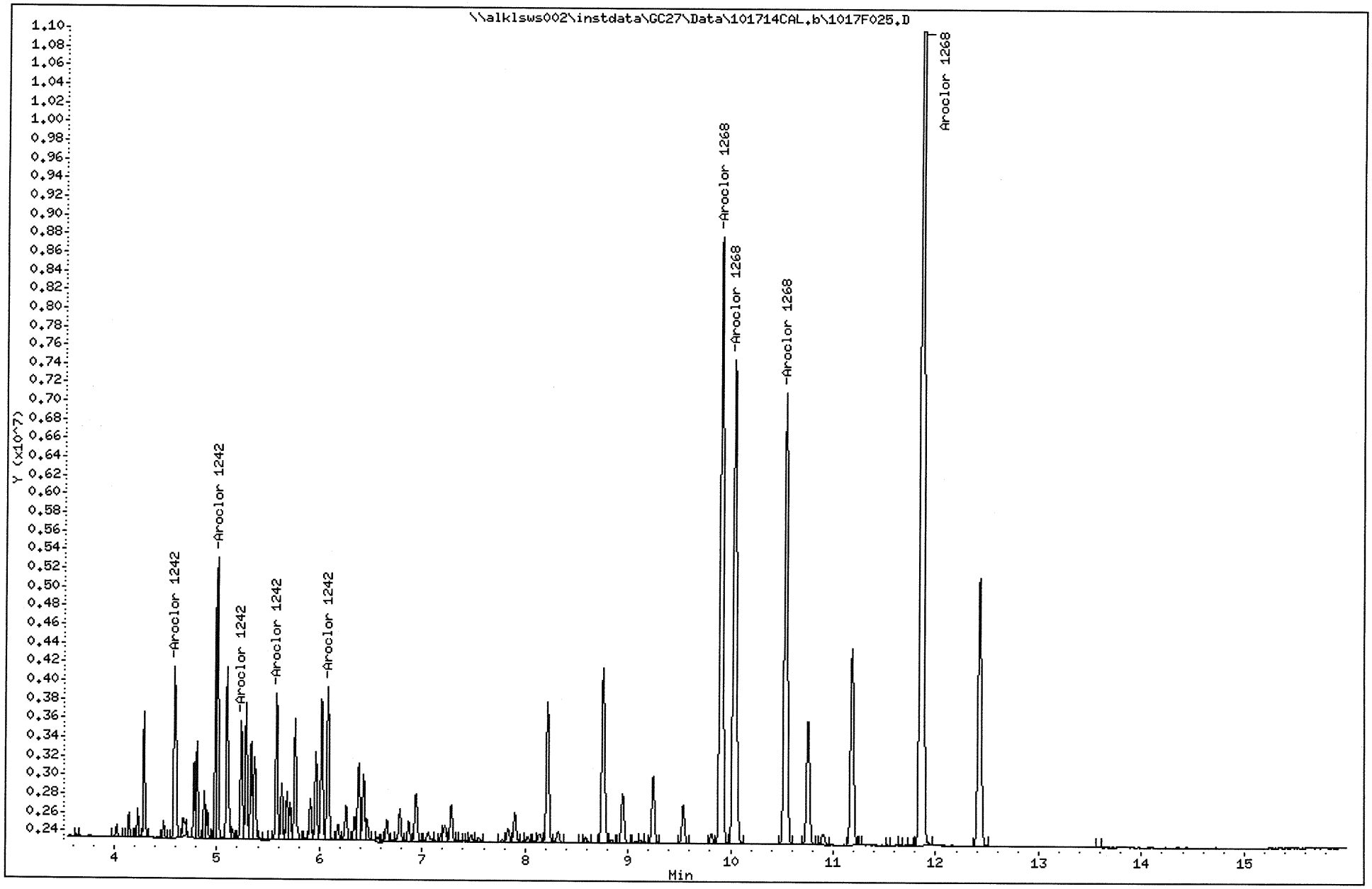
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

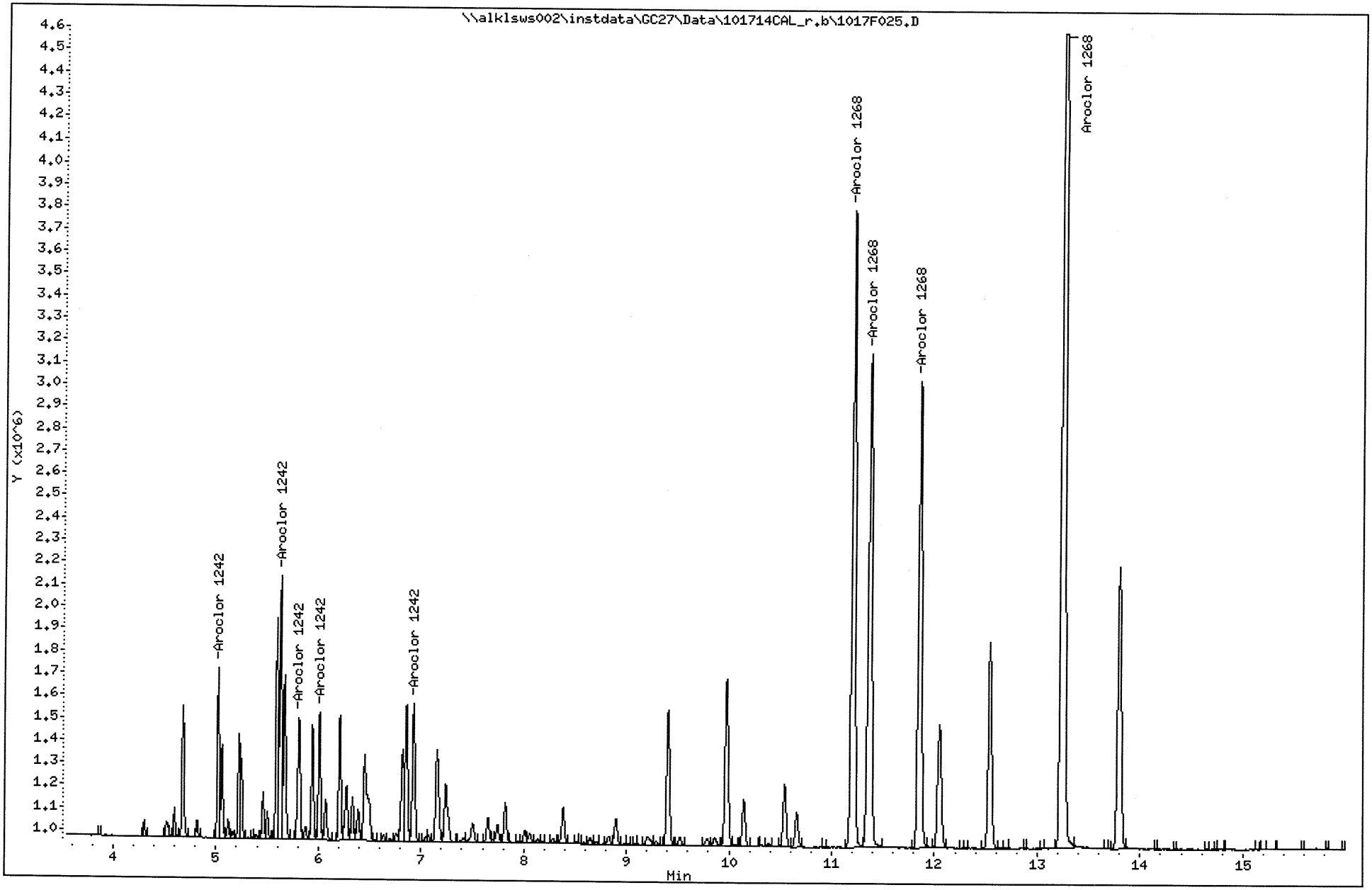


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

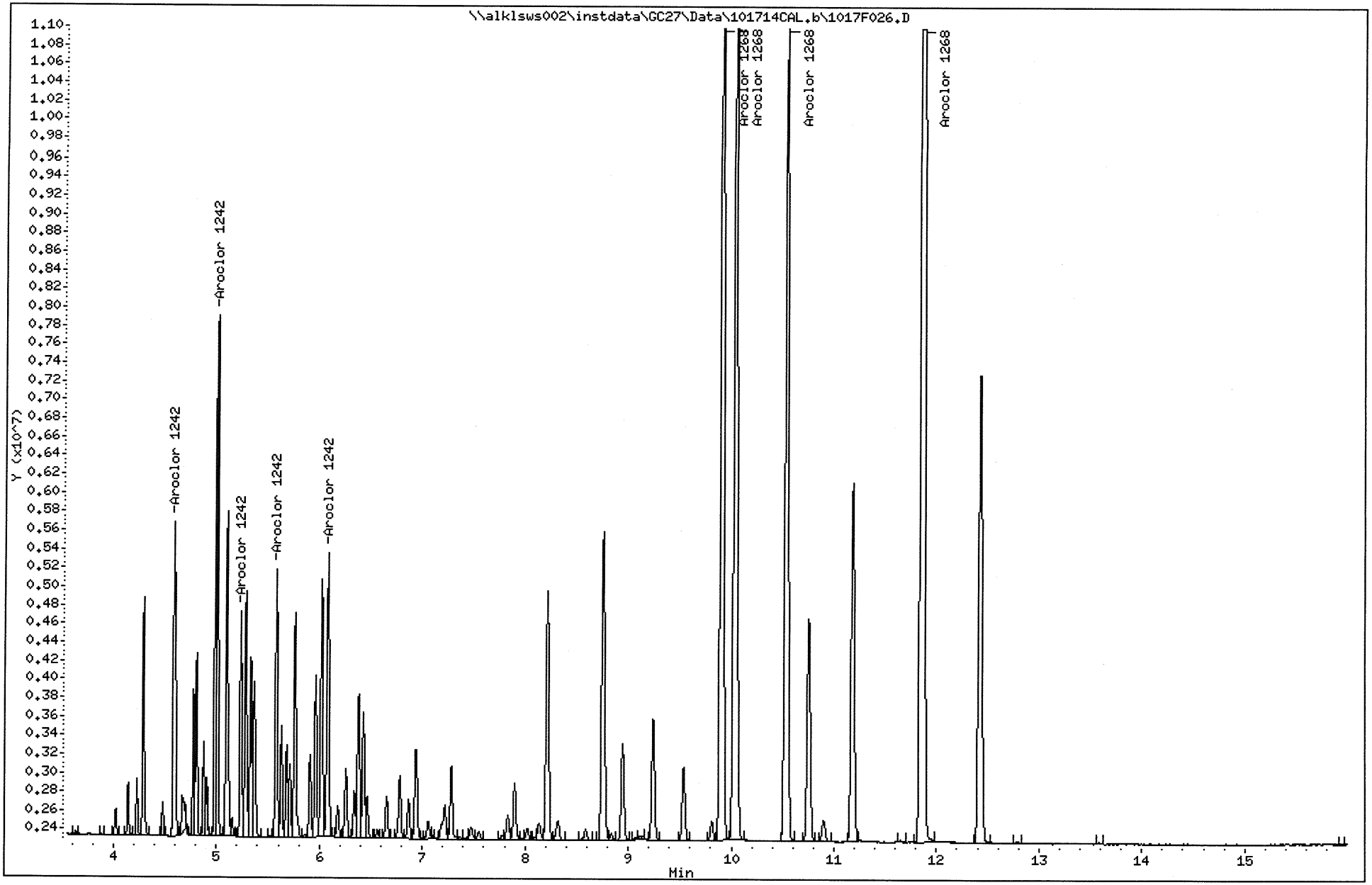
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



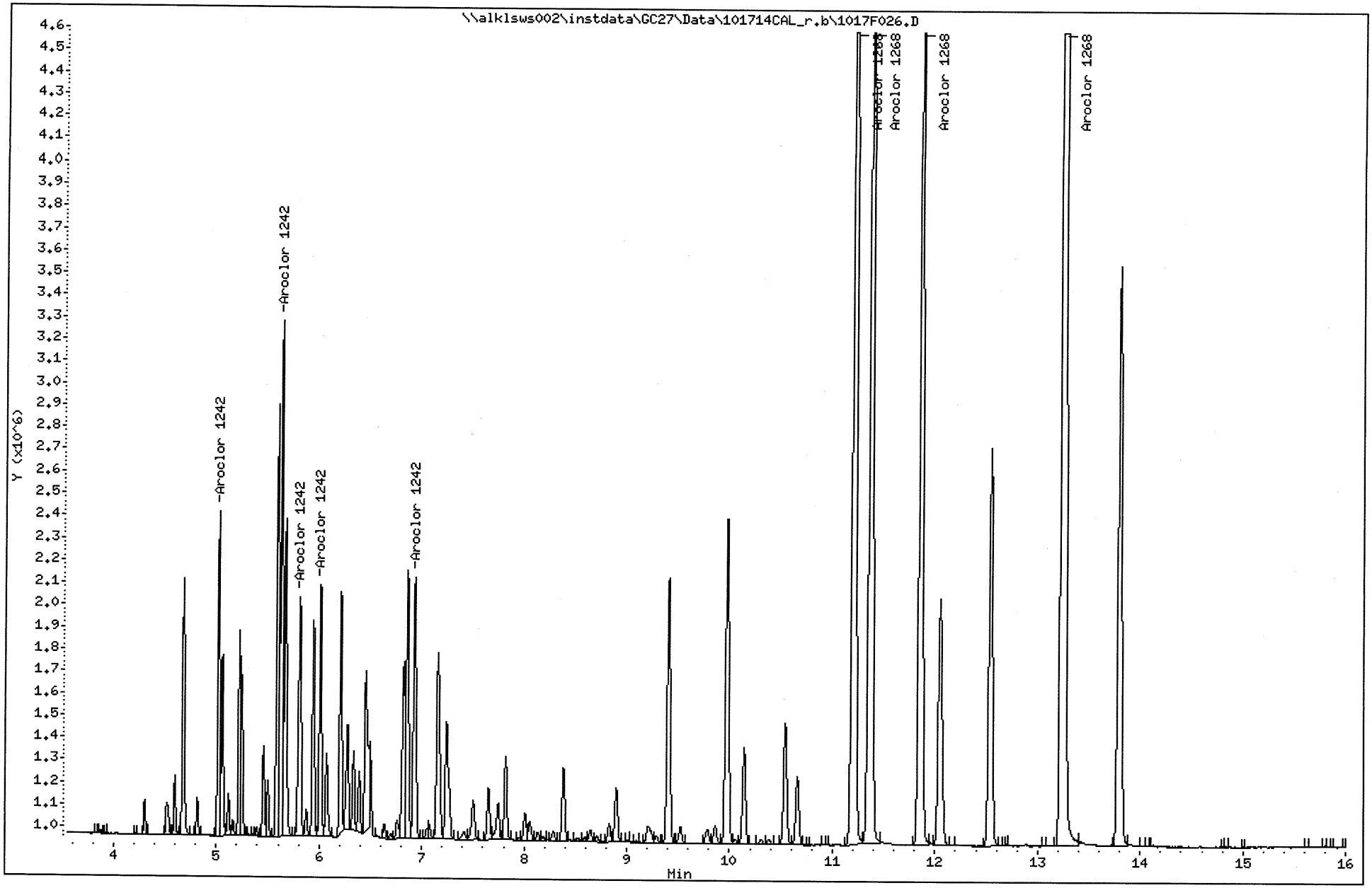
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

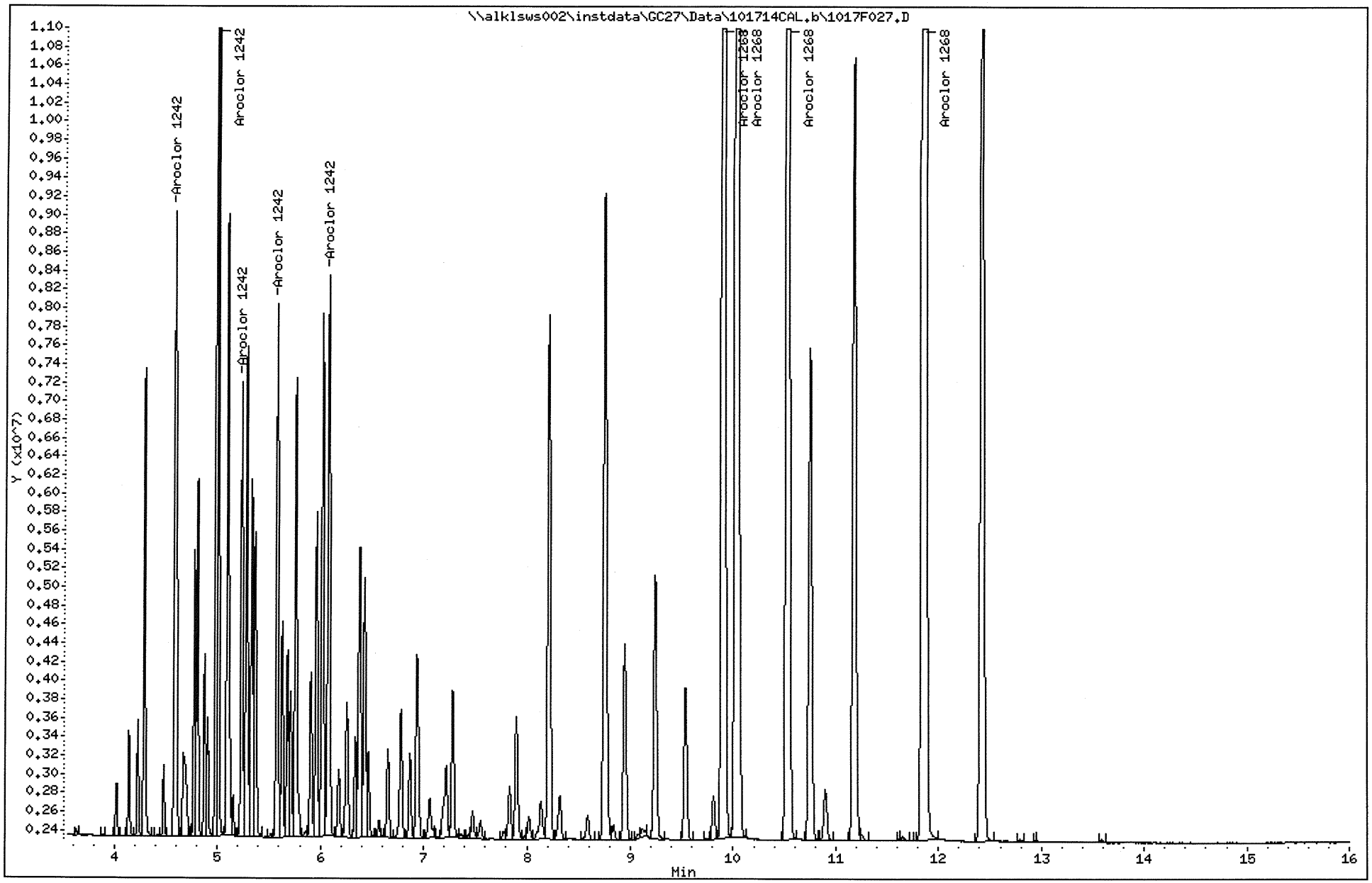
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



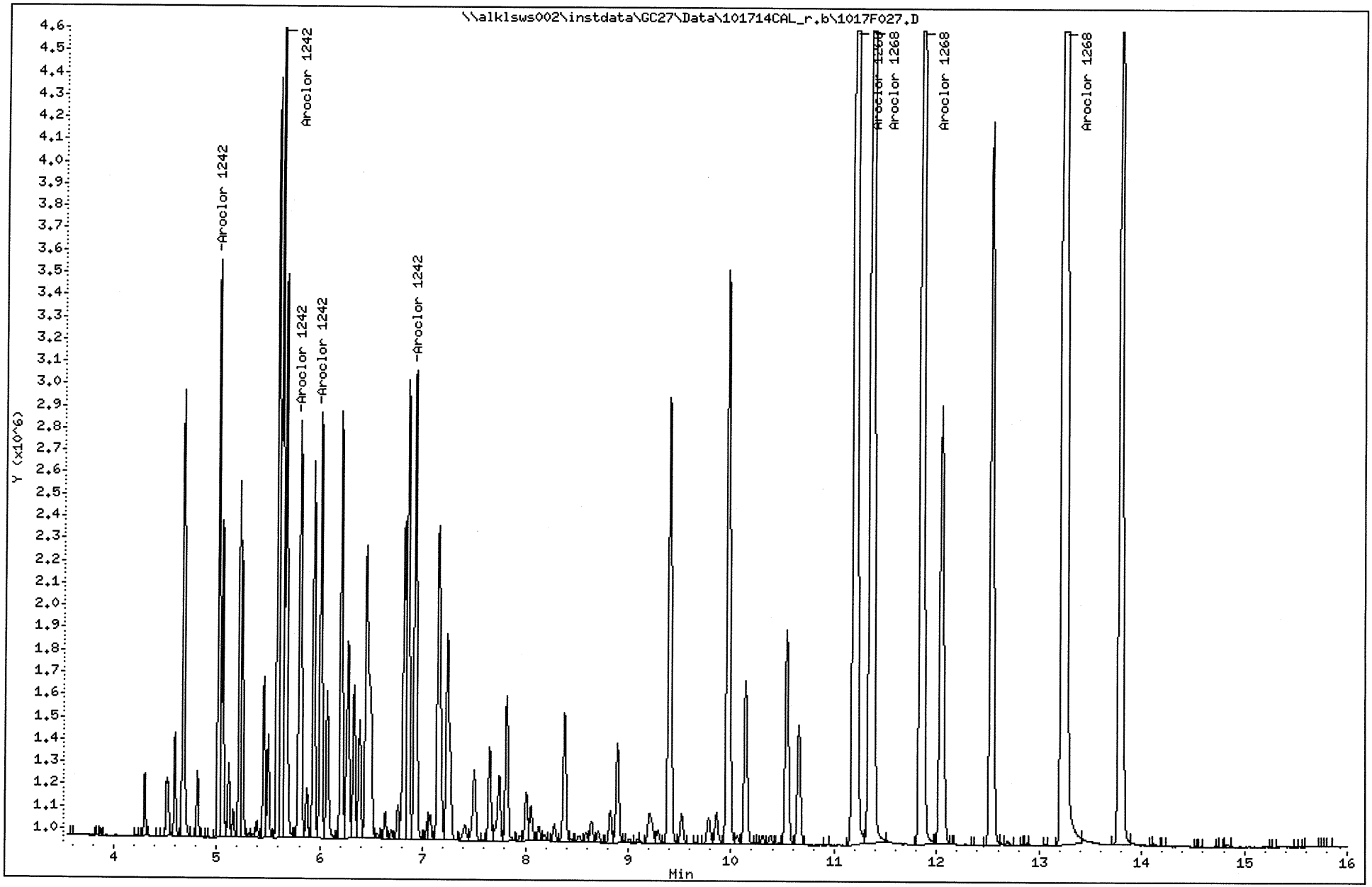
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

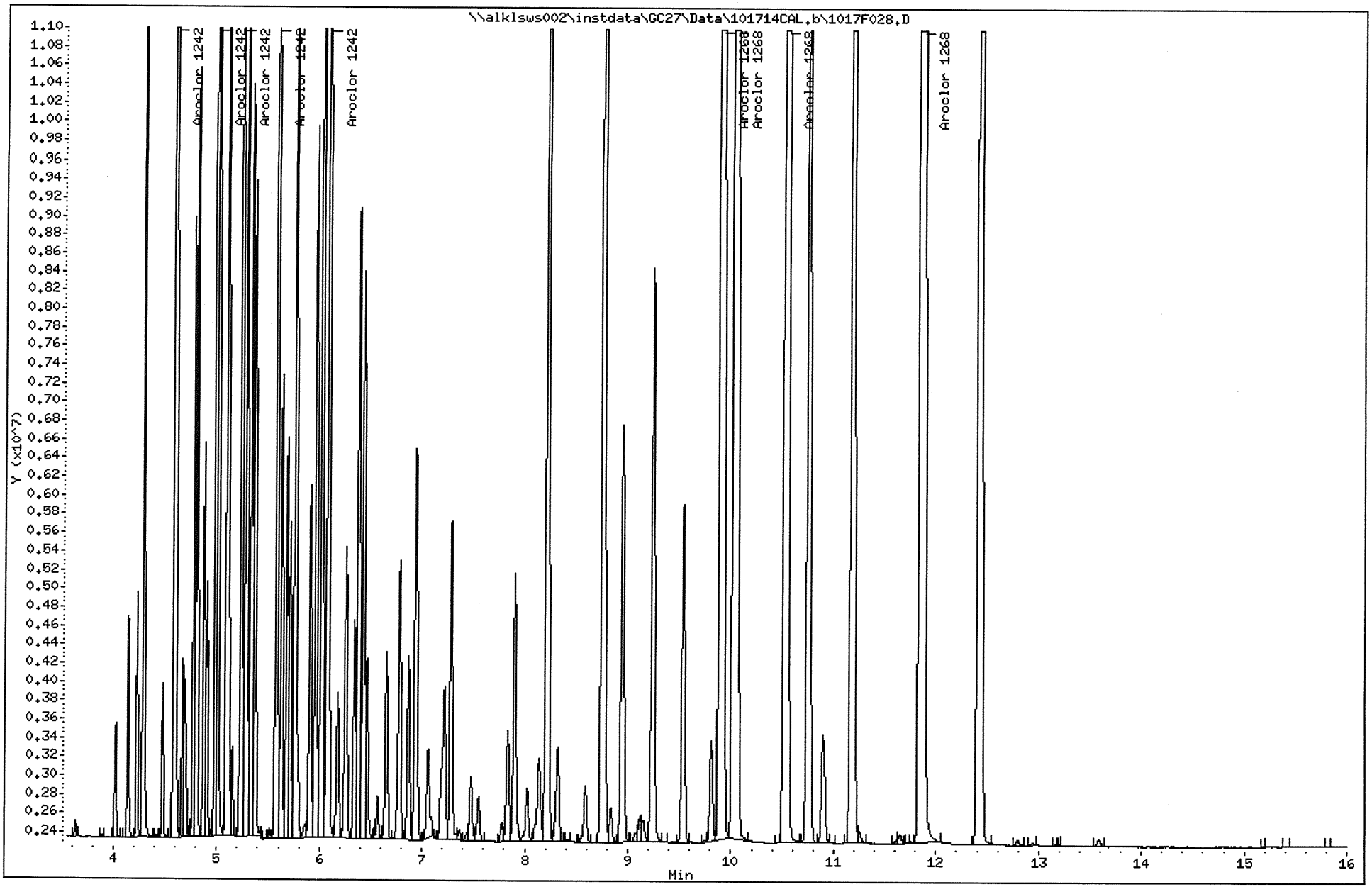
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



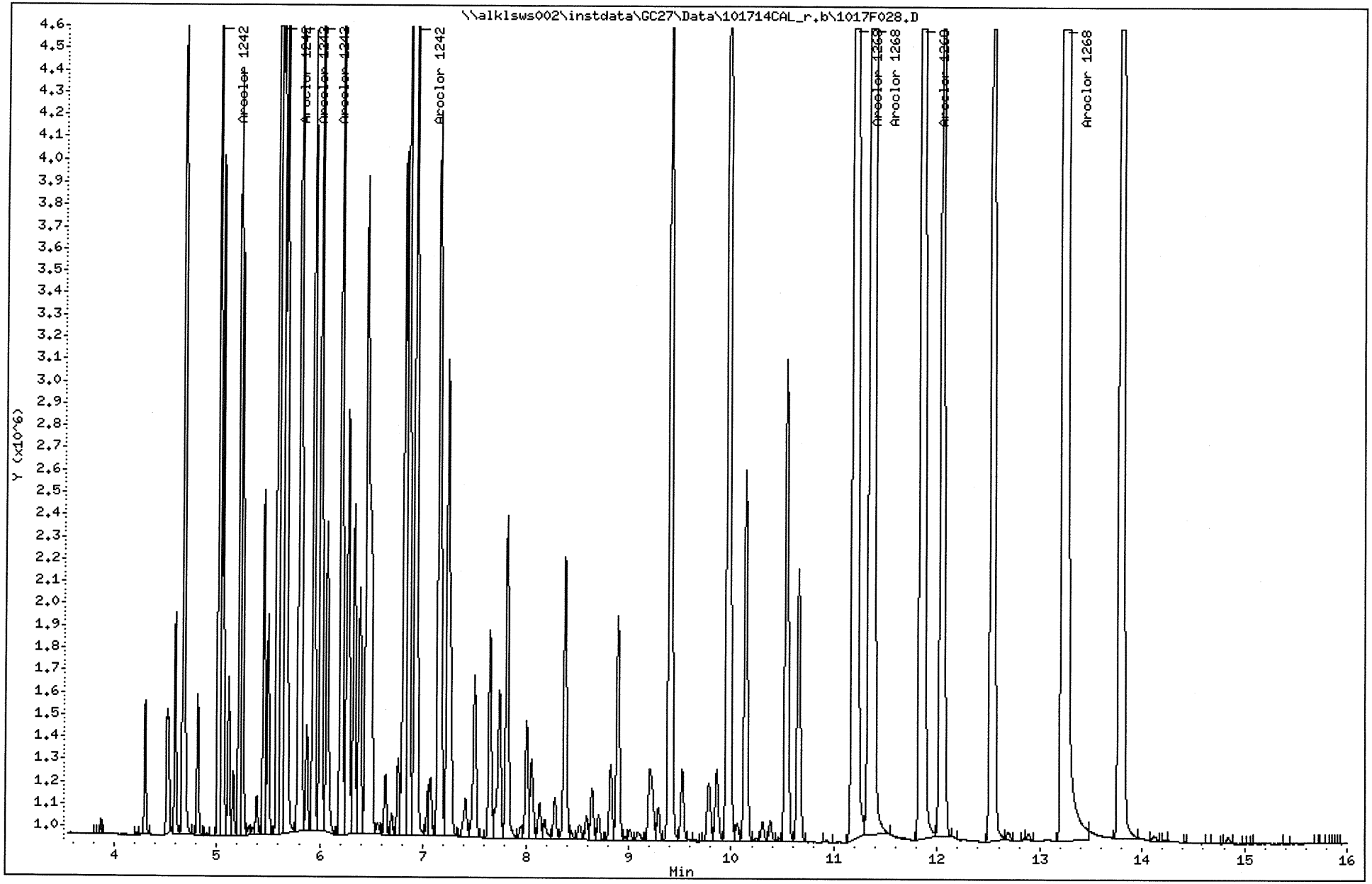
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

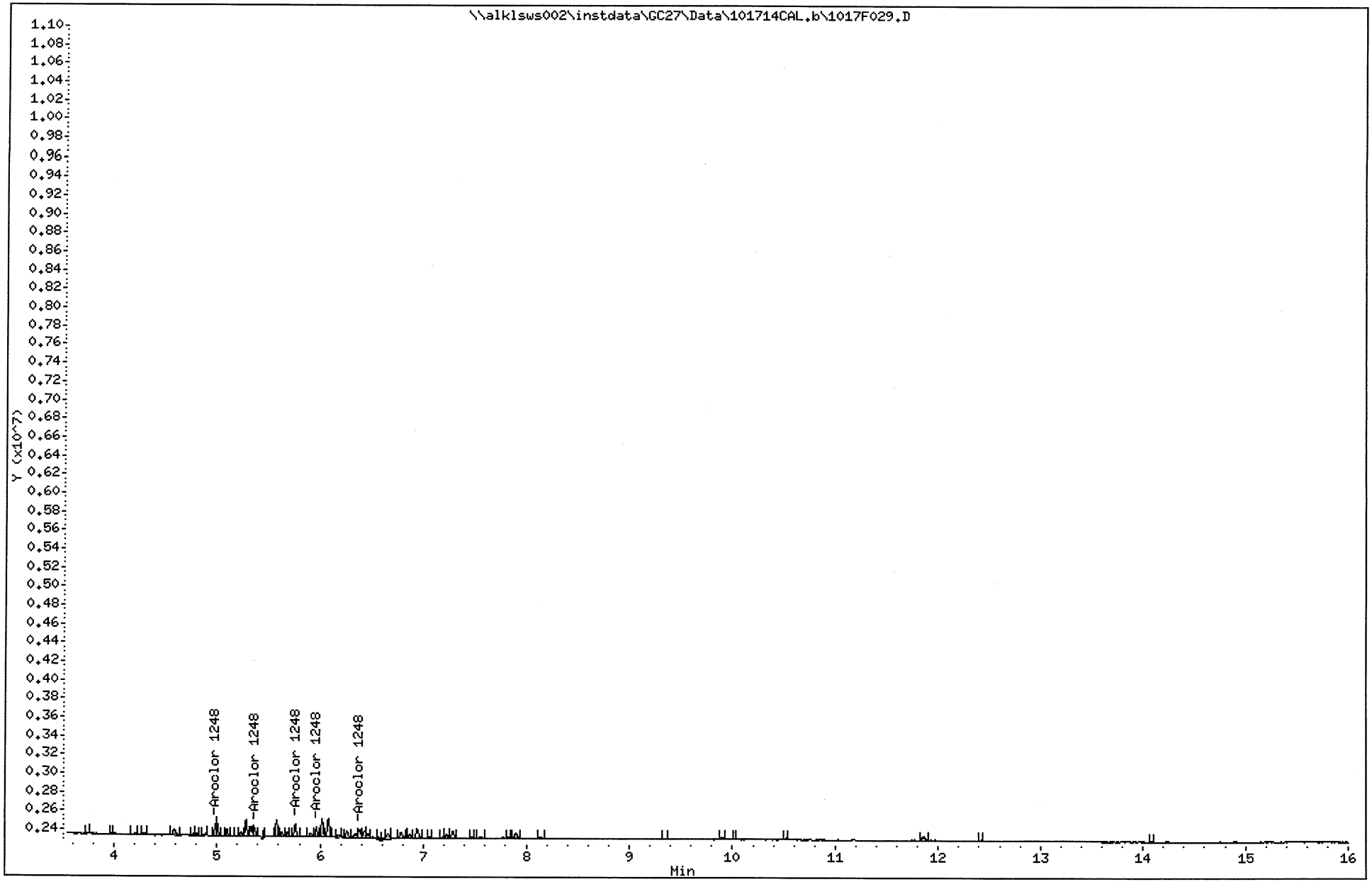
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

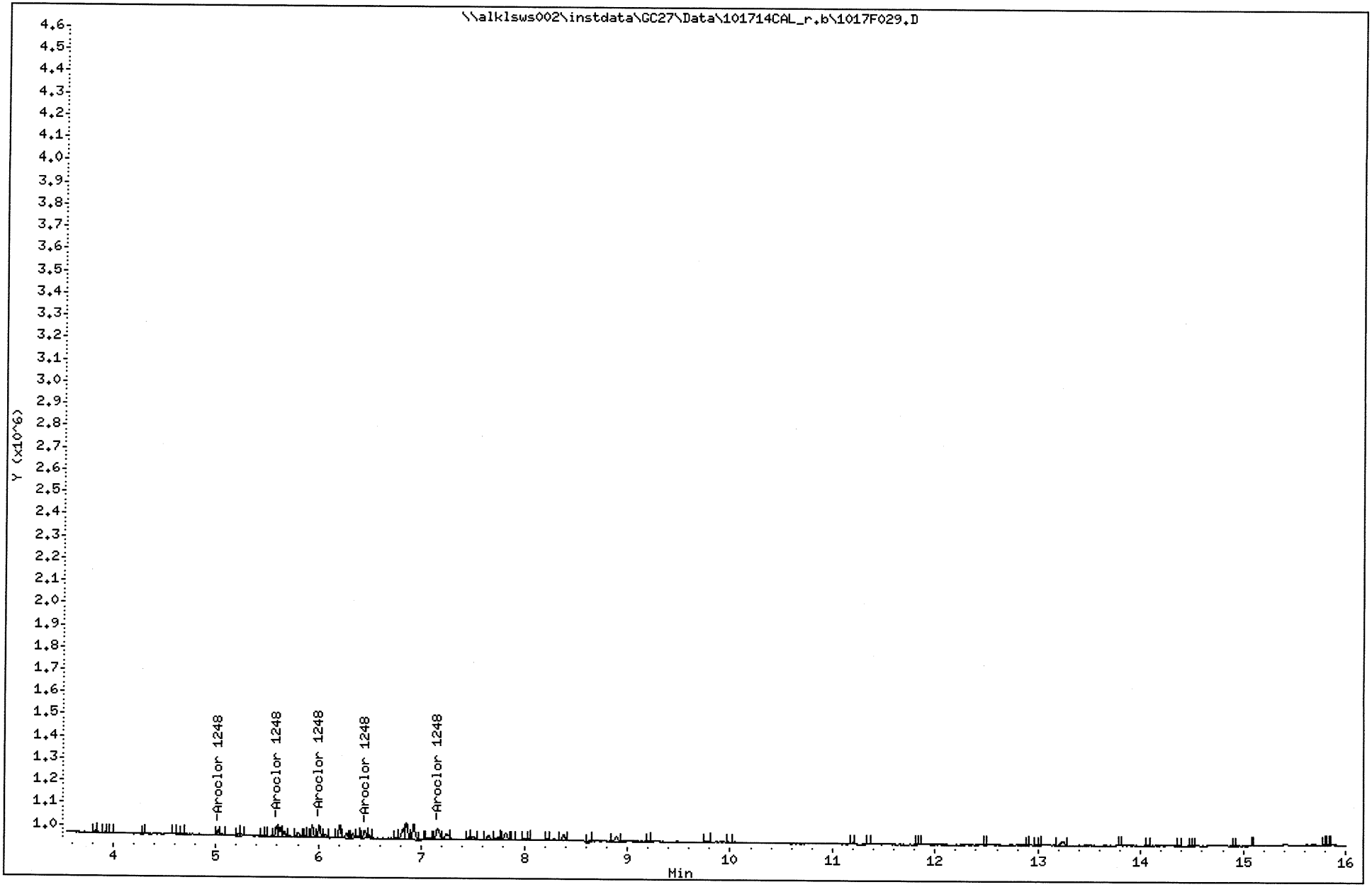


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Column phase: DB-XLB

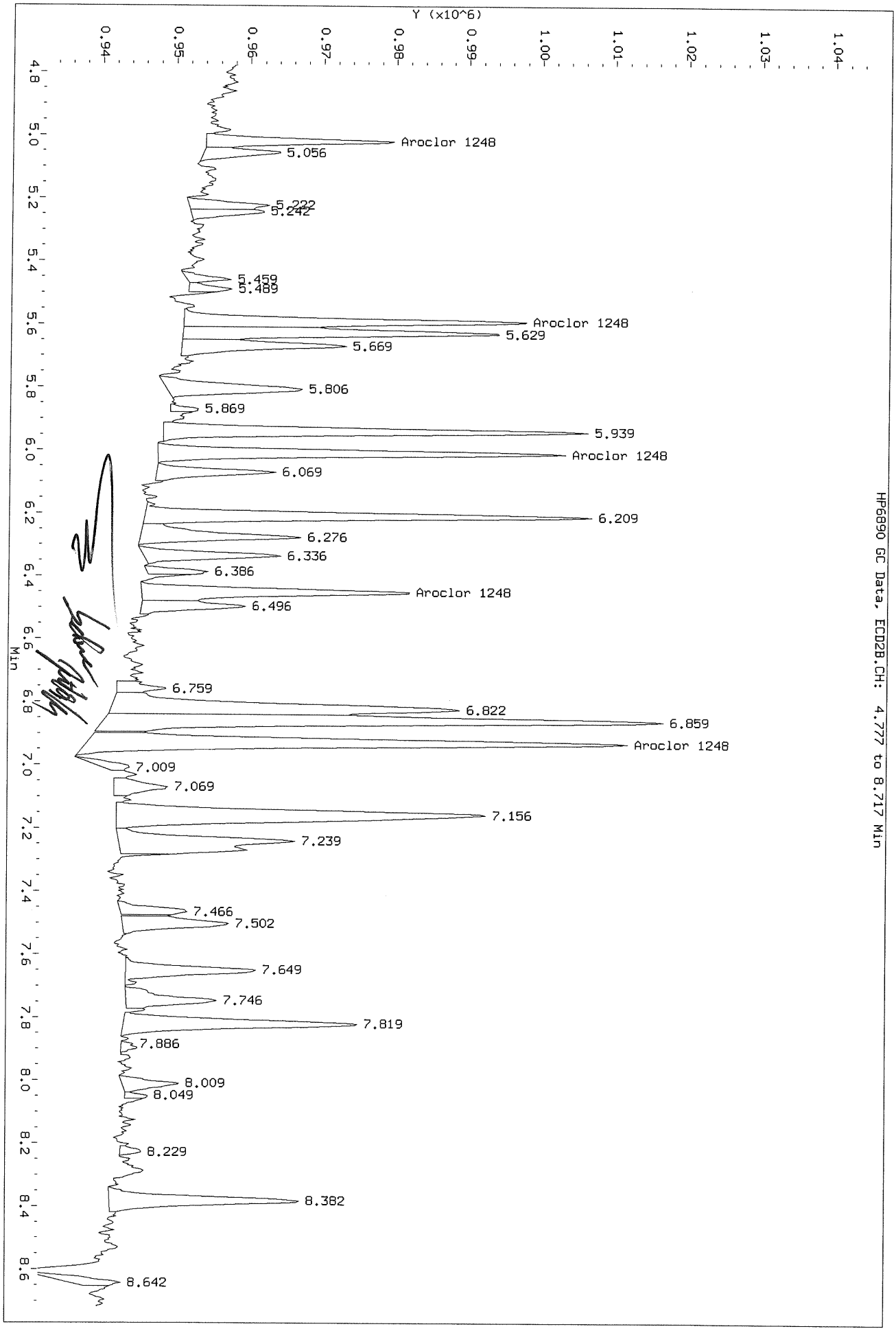
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



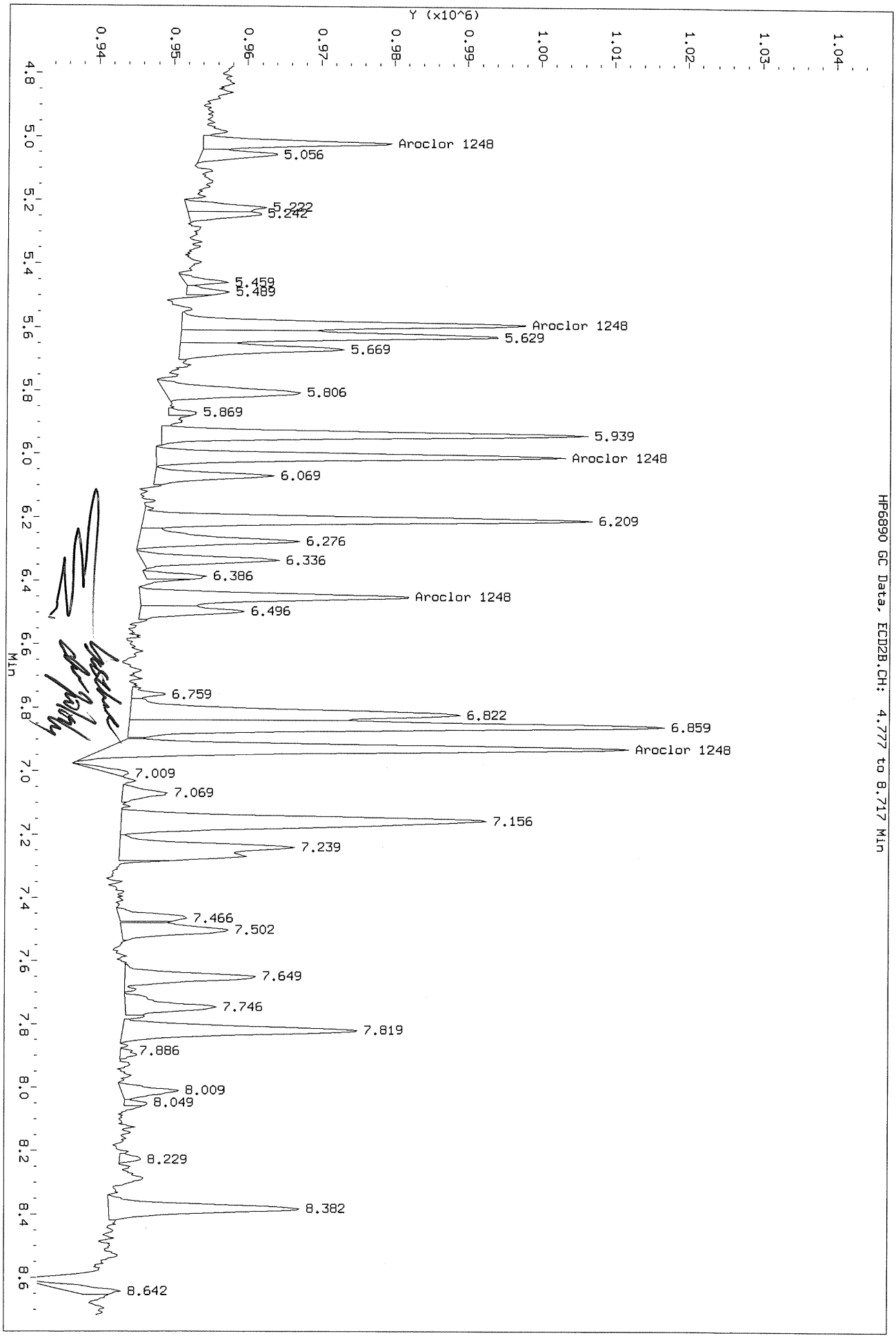
Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

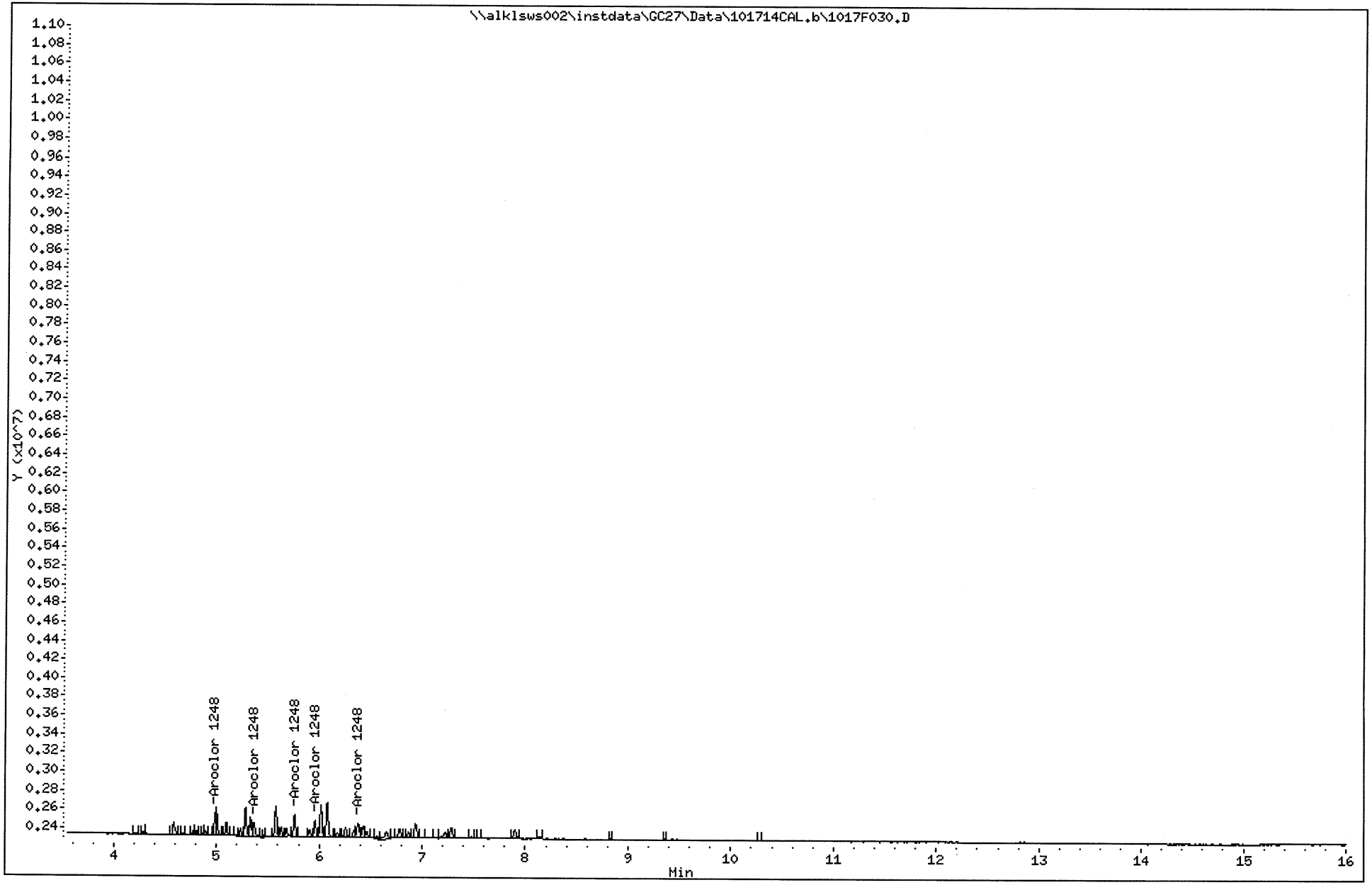
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

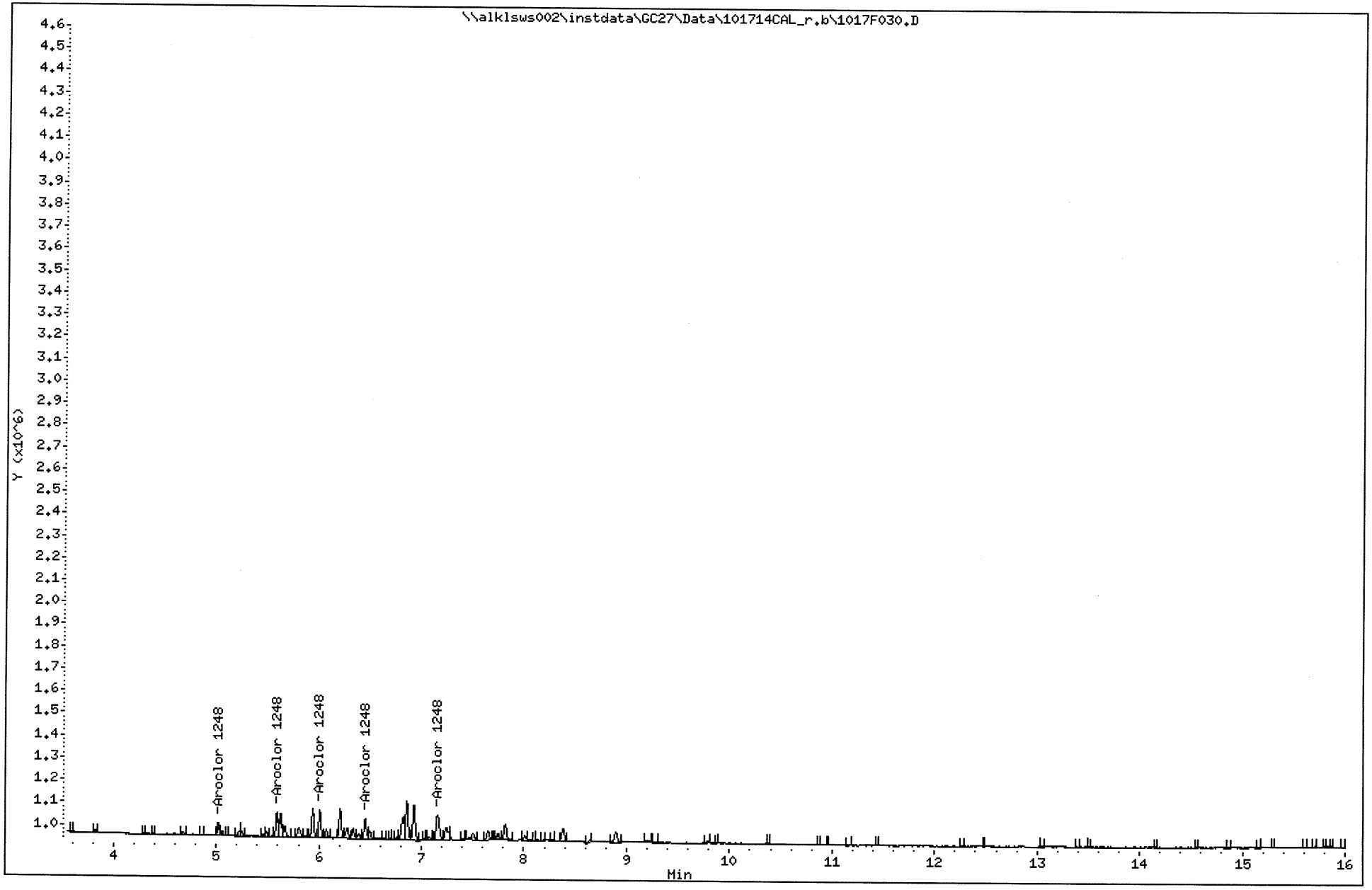


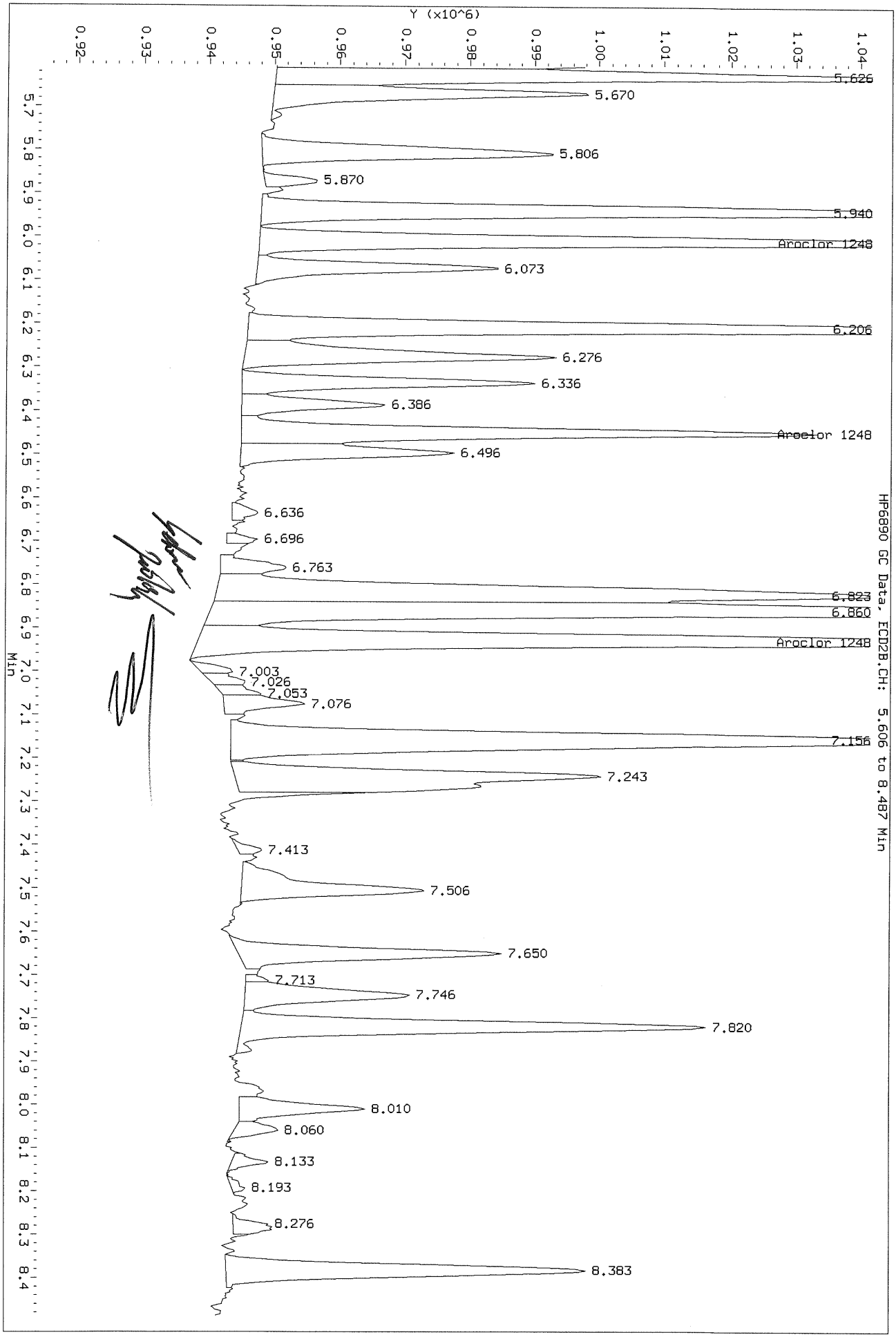
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

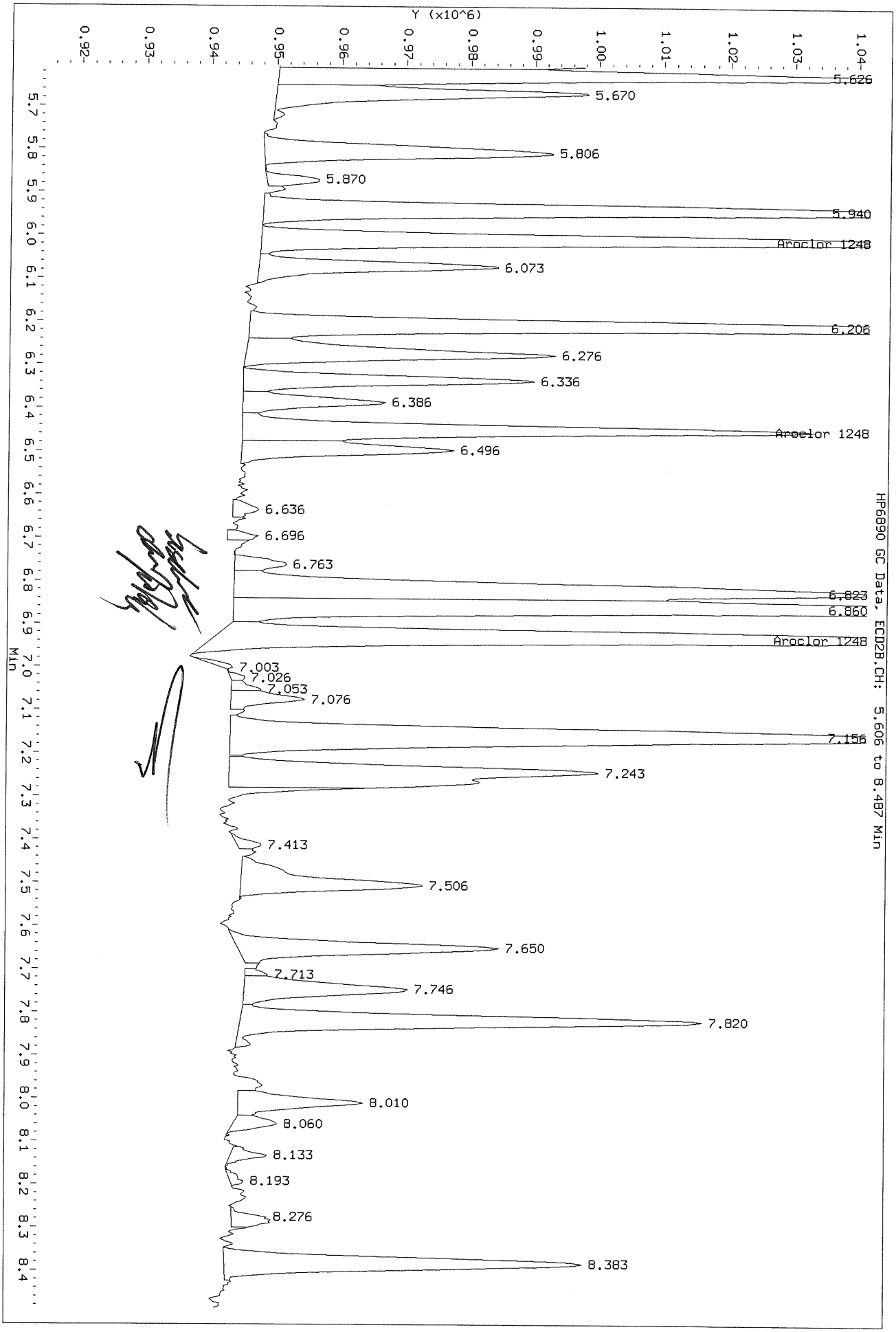
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

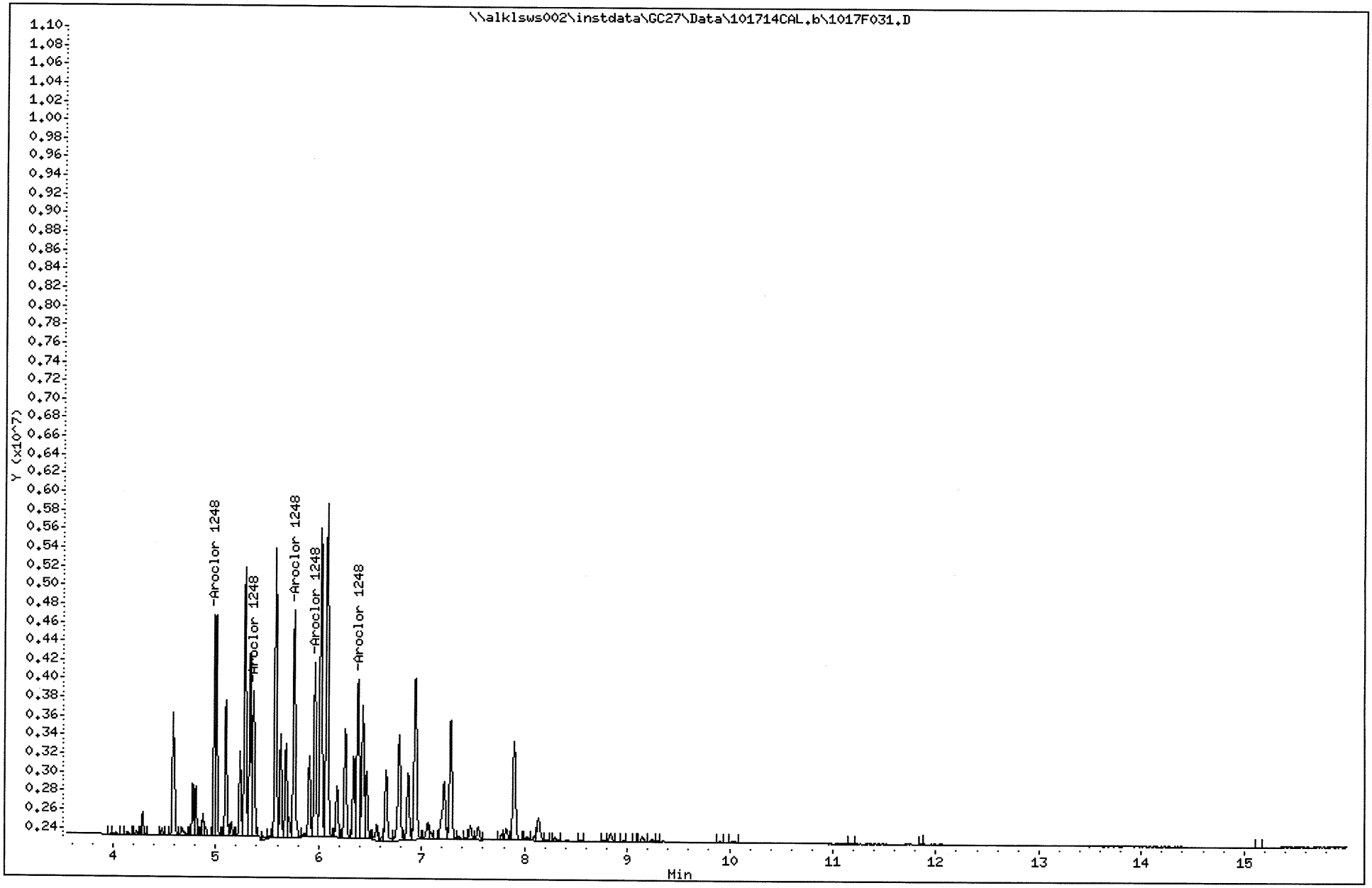
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



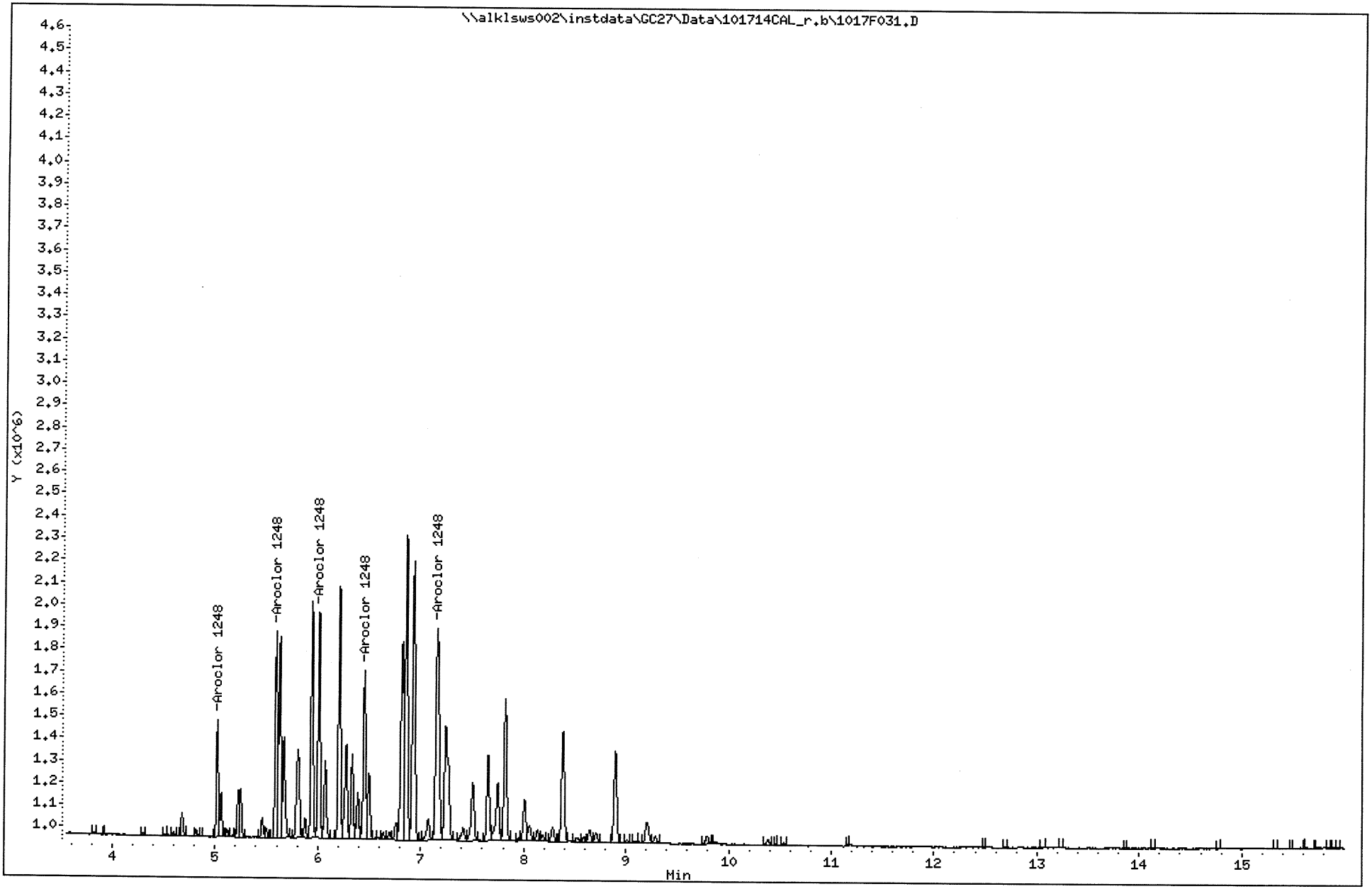
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

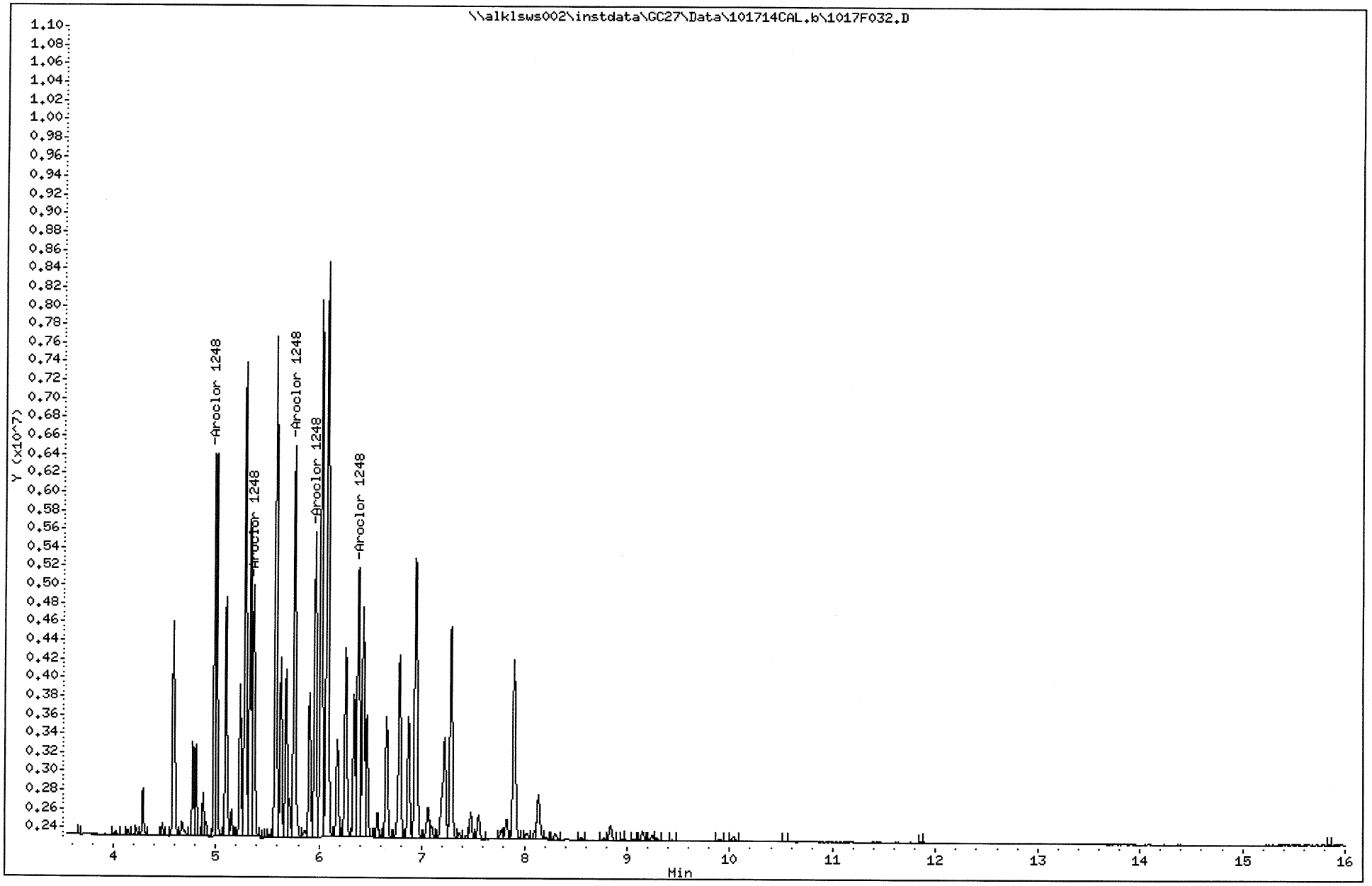
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



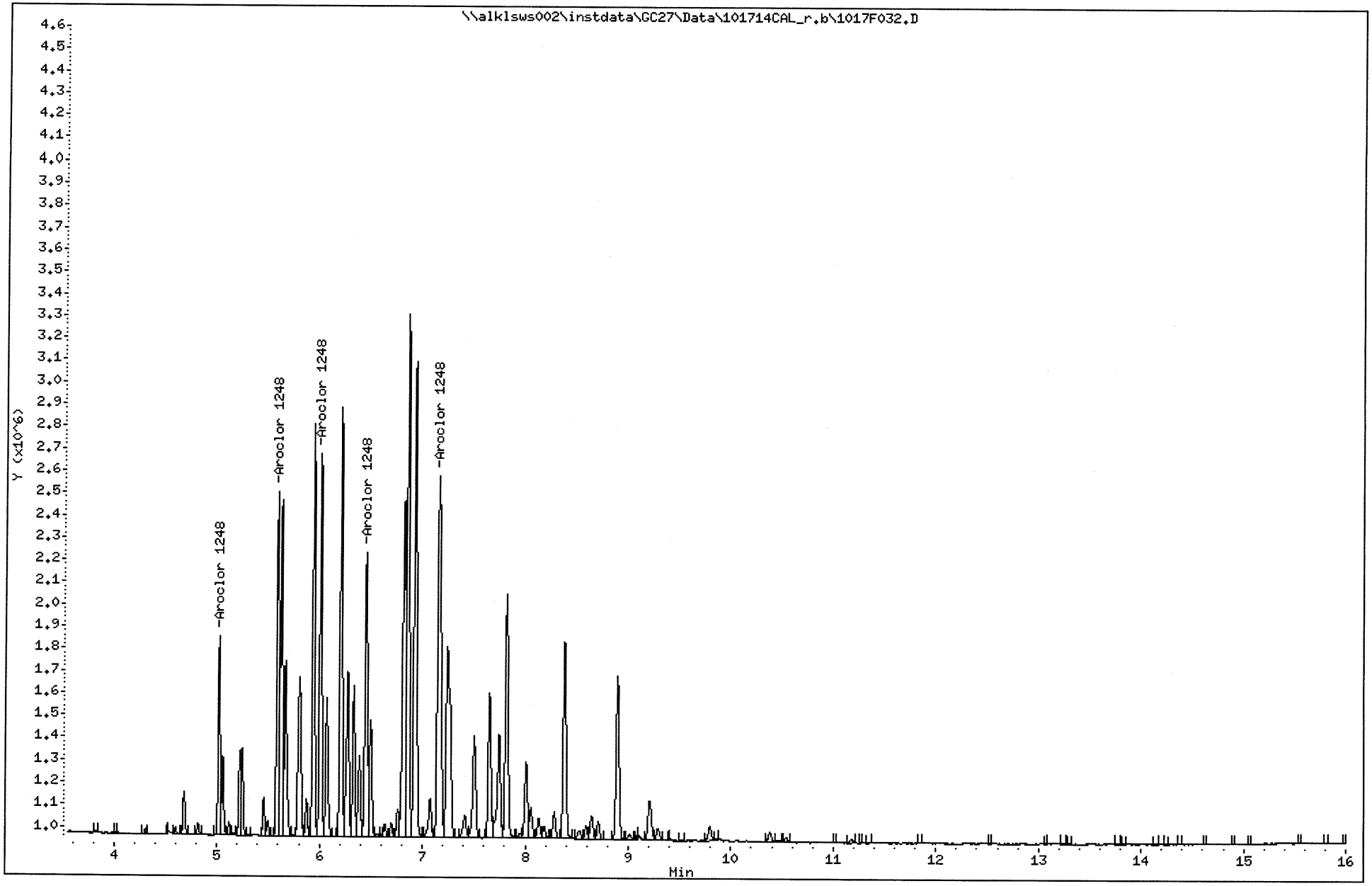
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

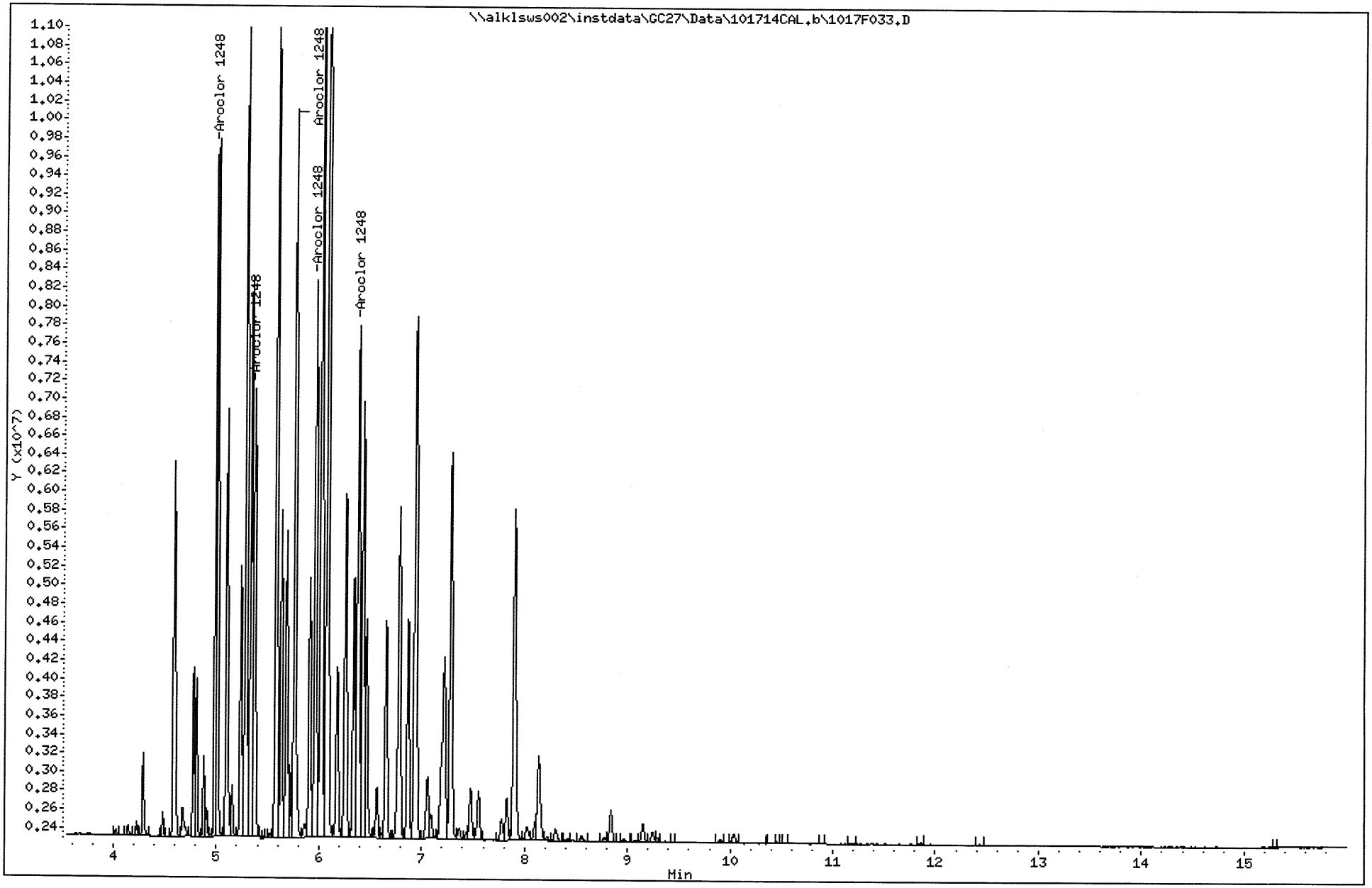
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

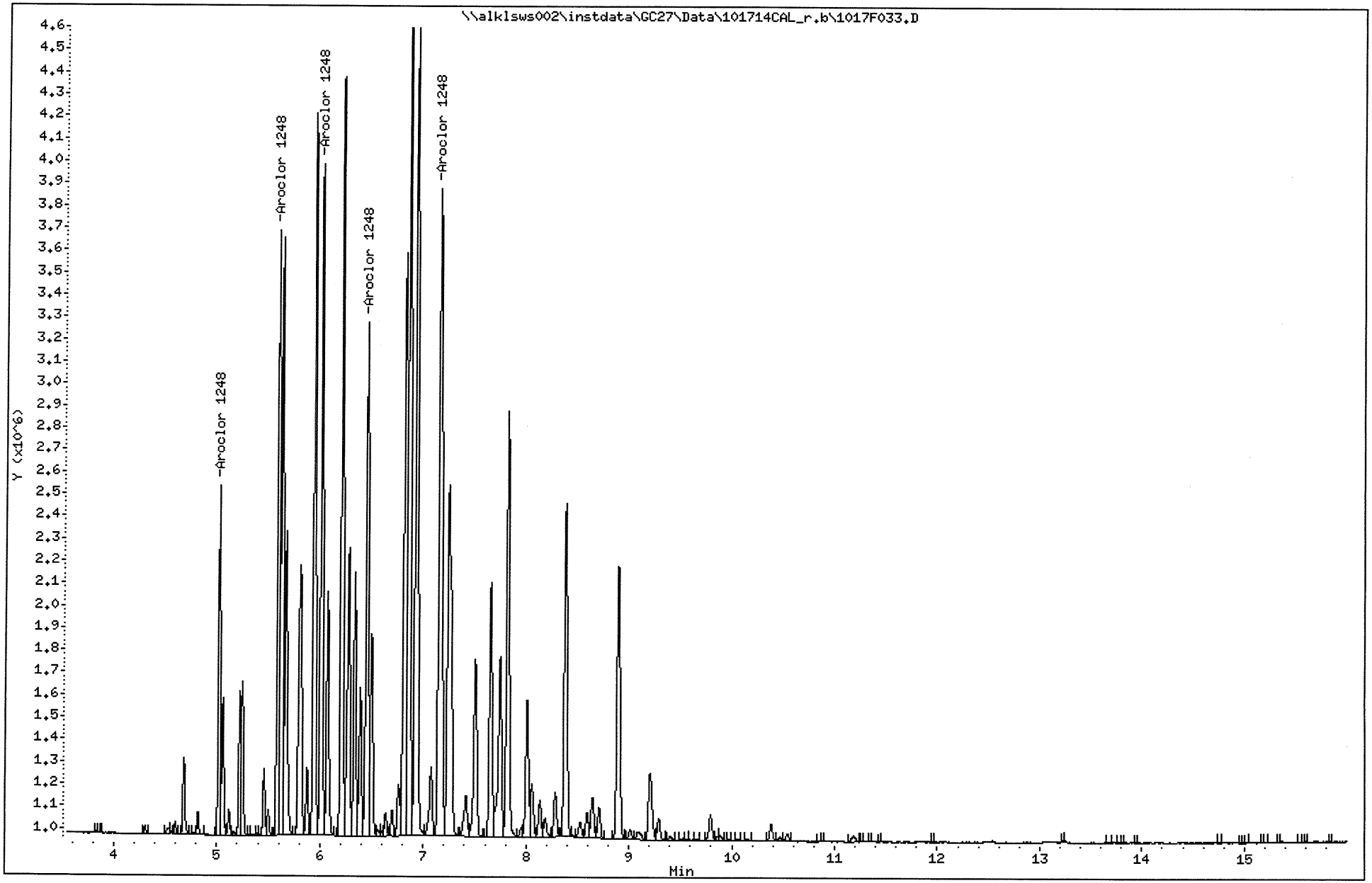


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

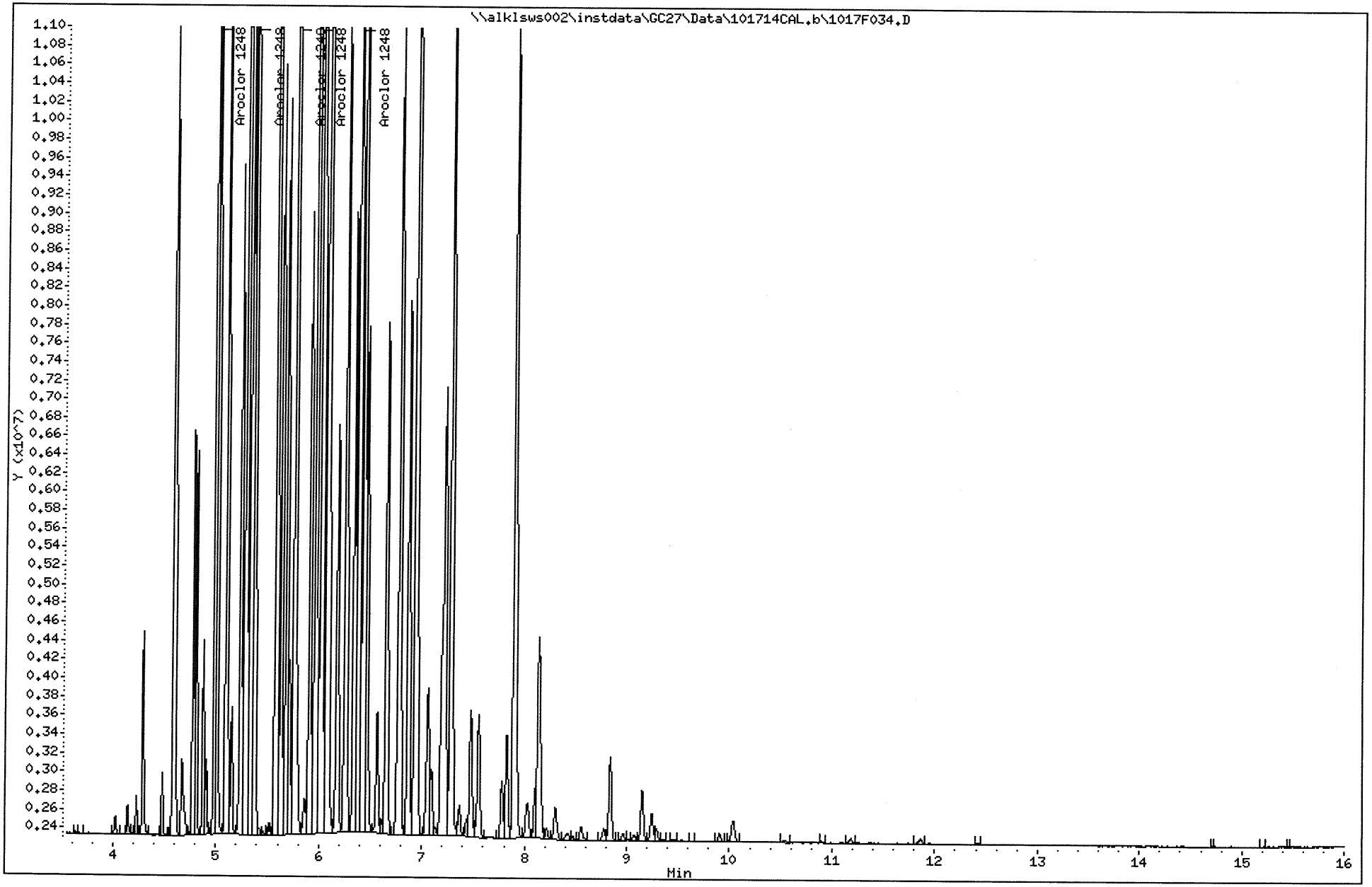
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



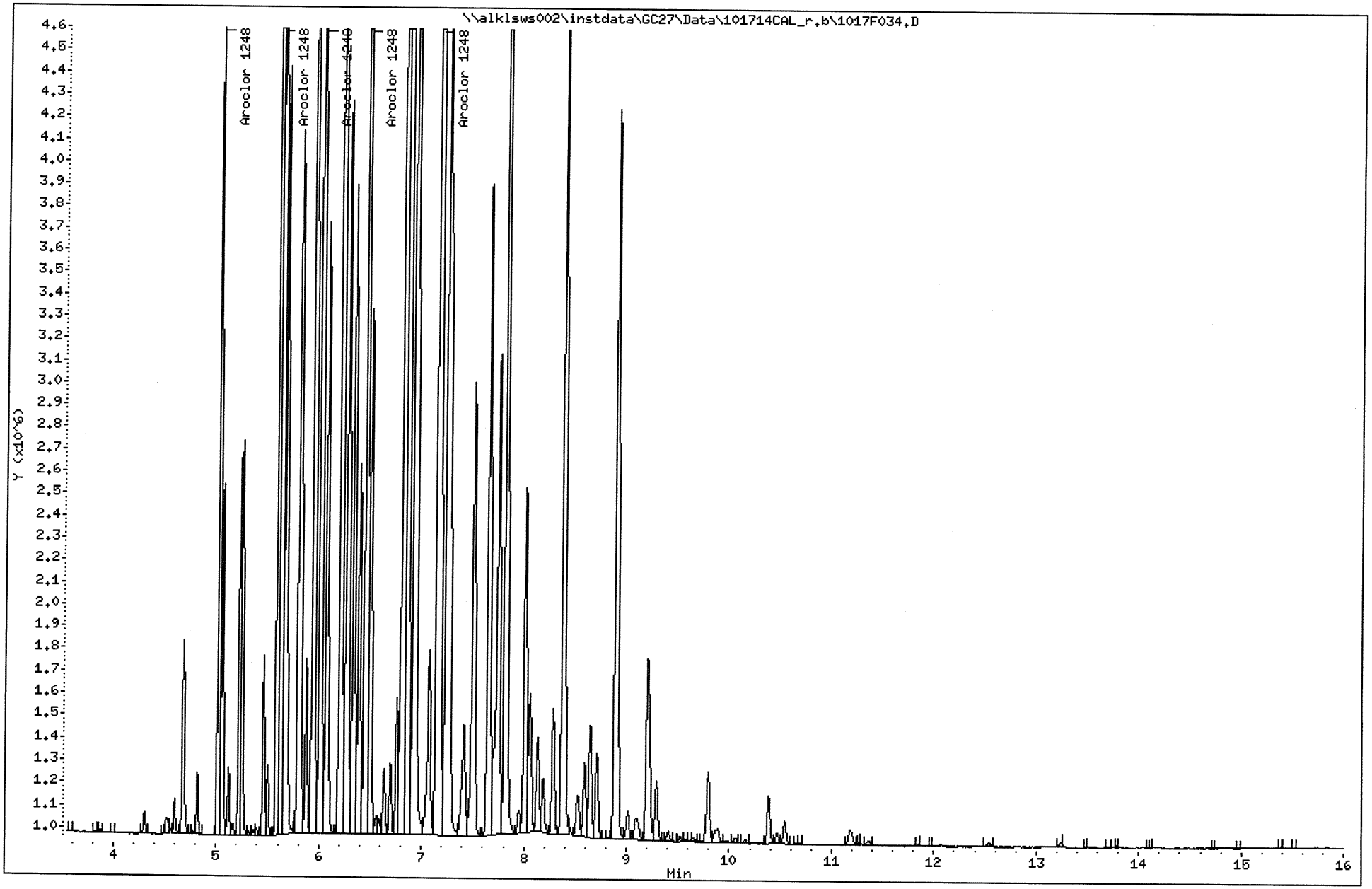
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

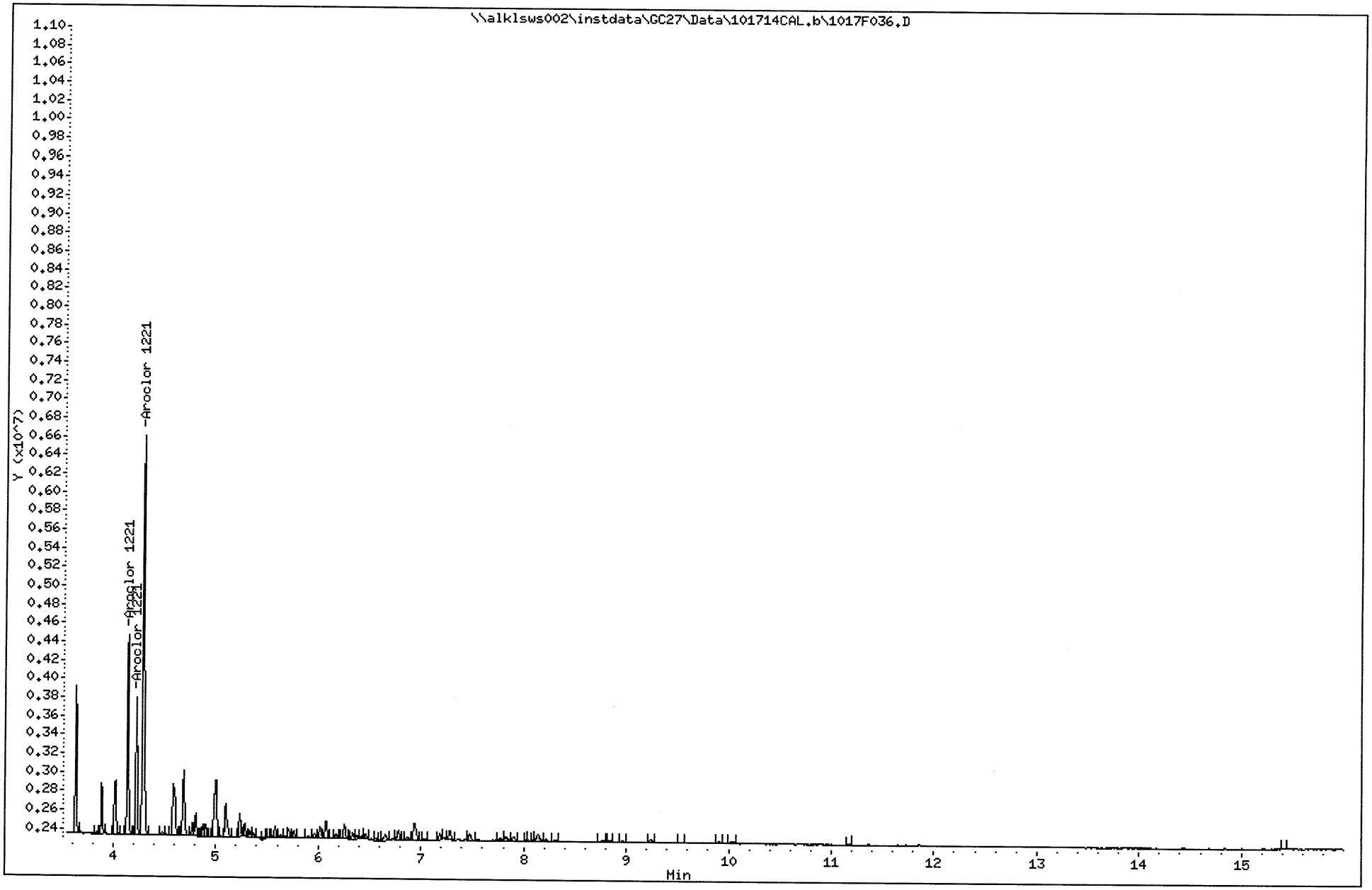
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



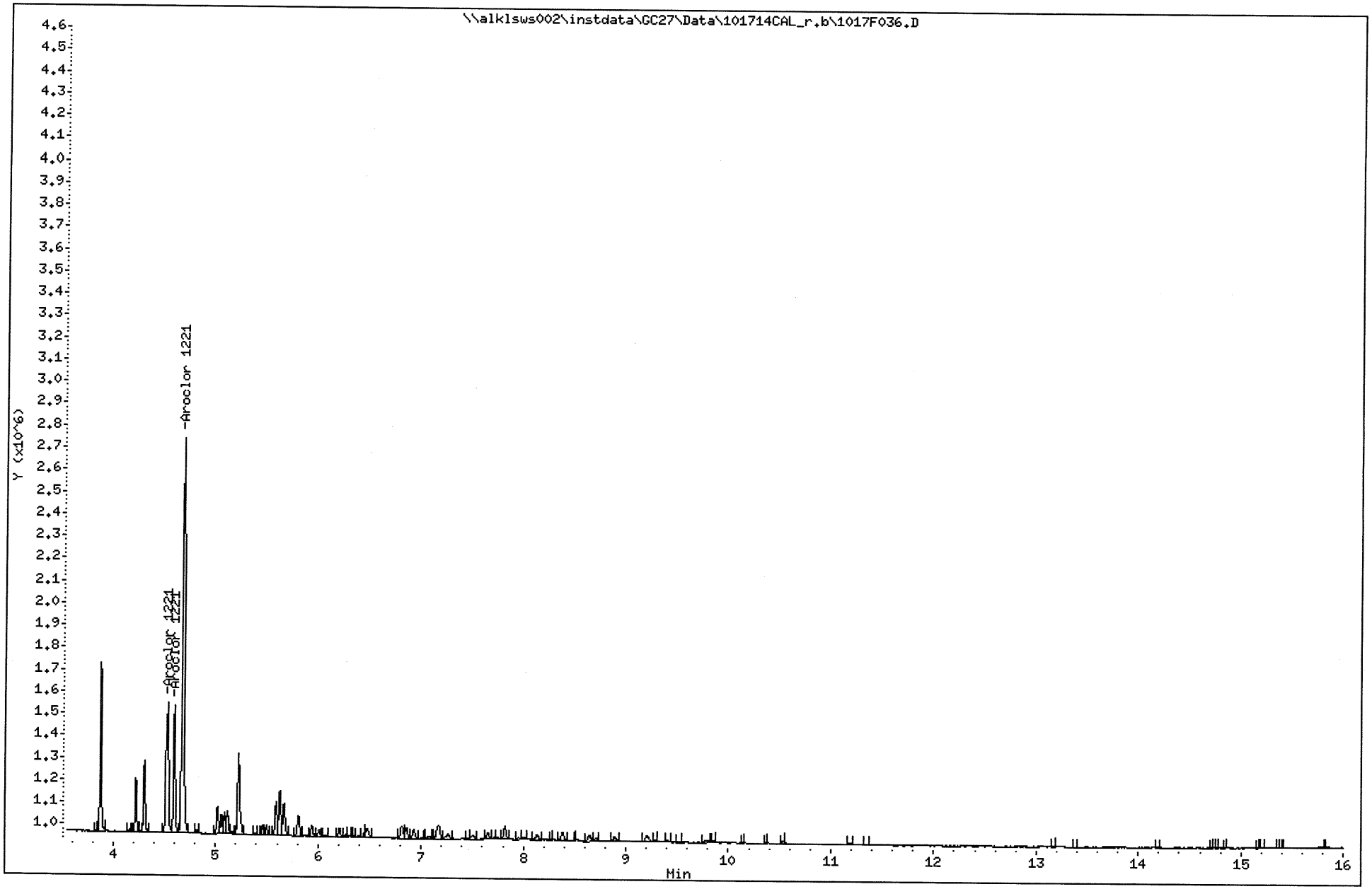
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

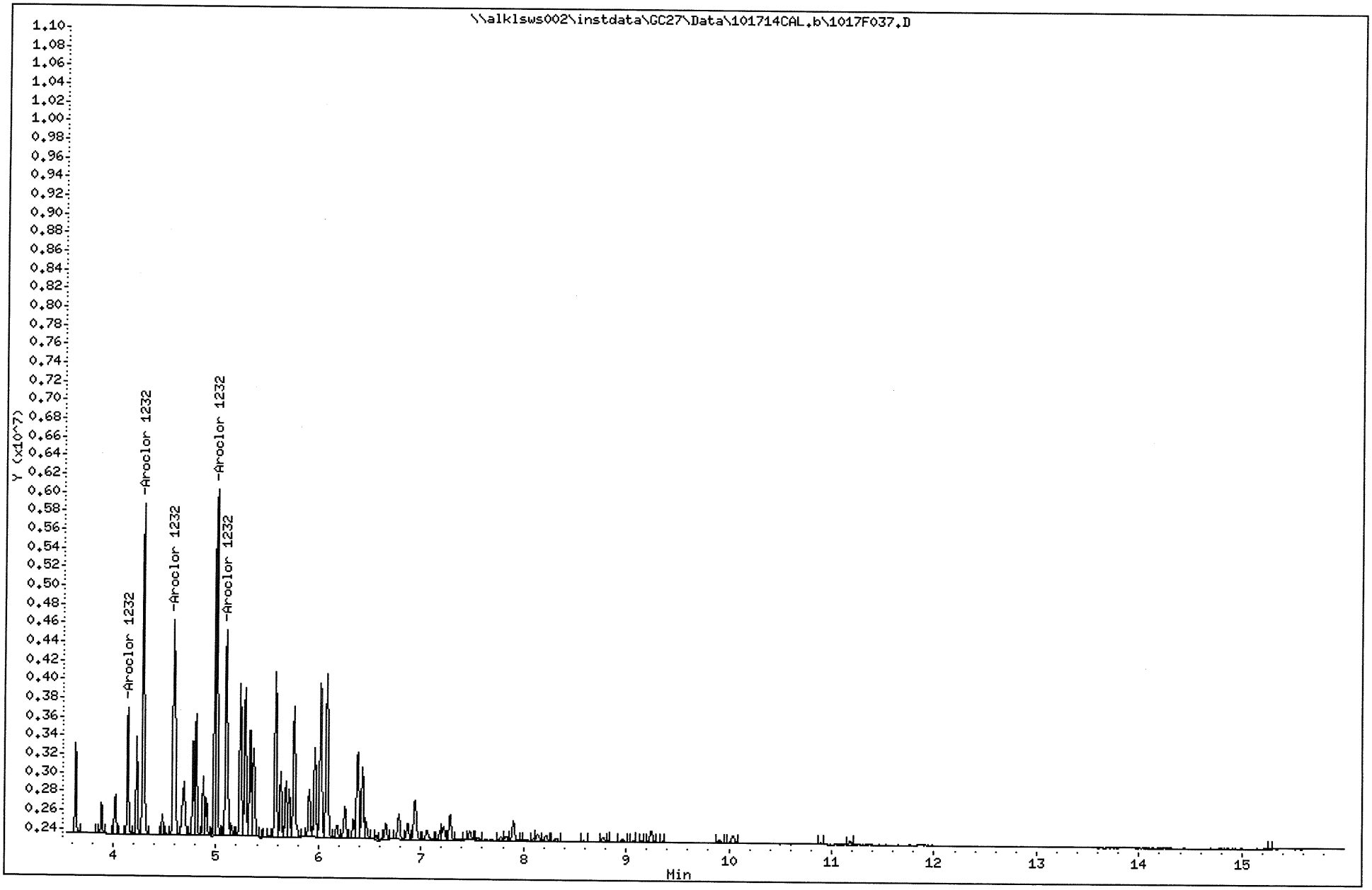
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



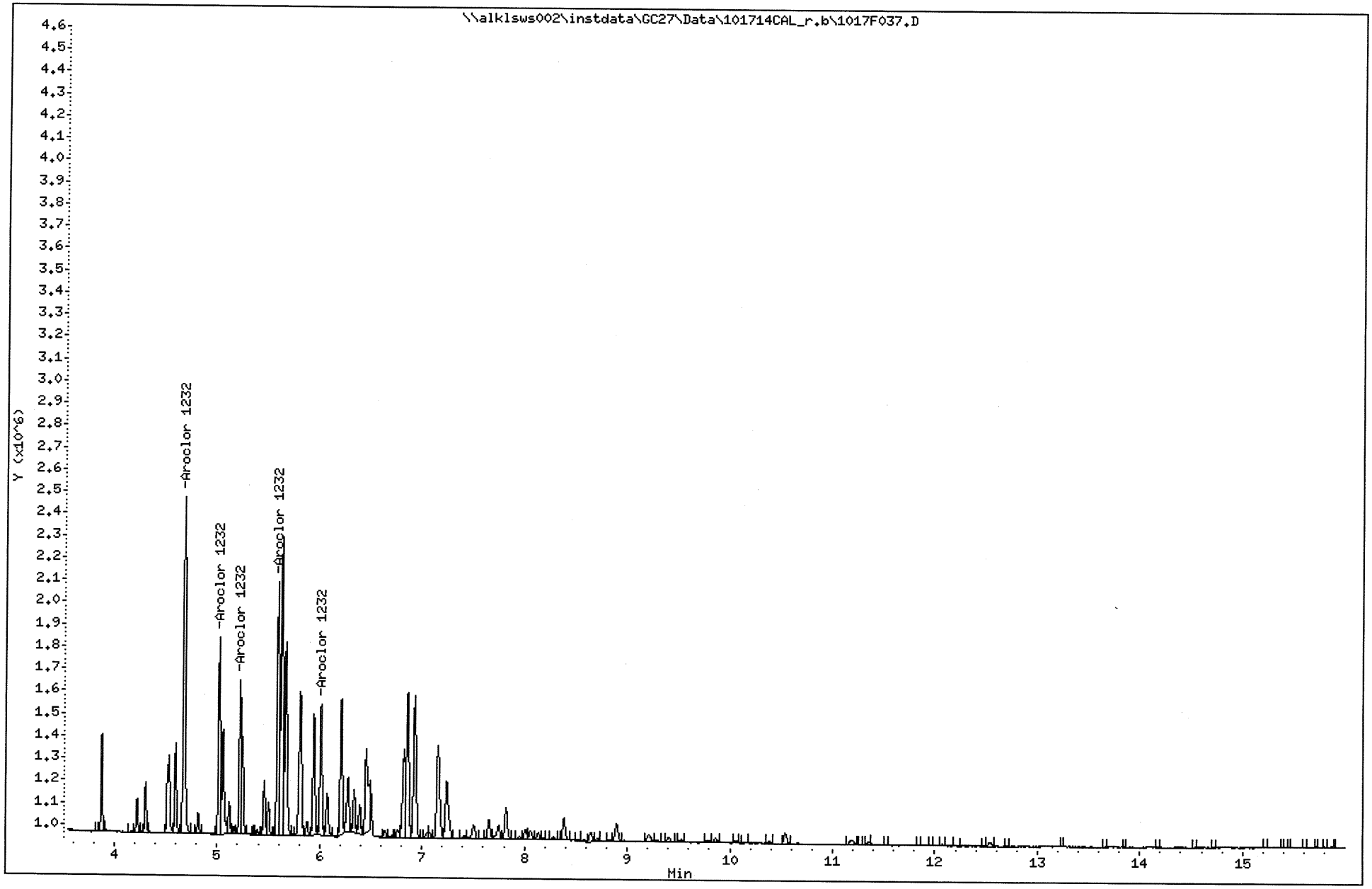
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

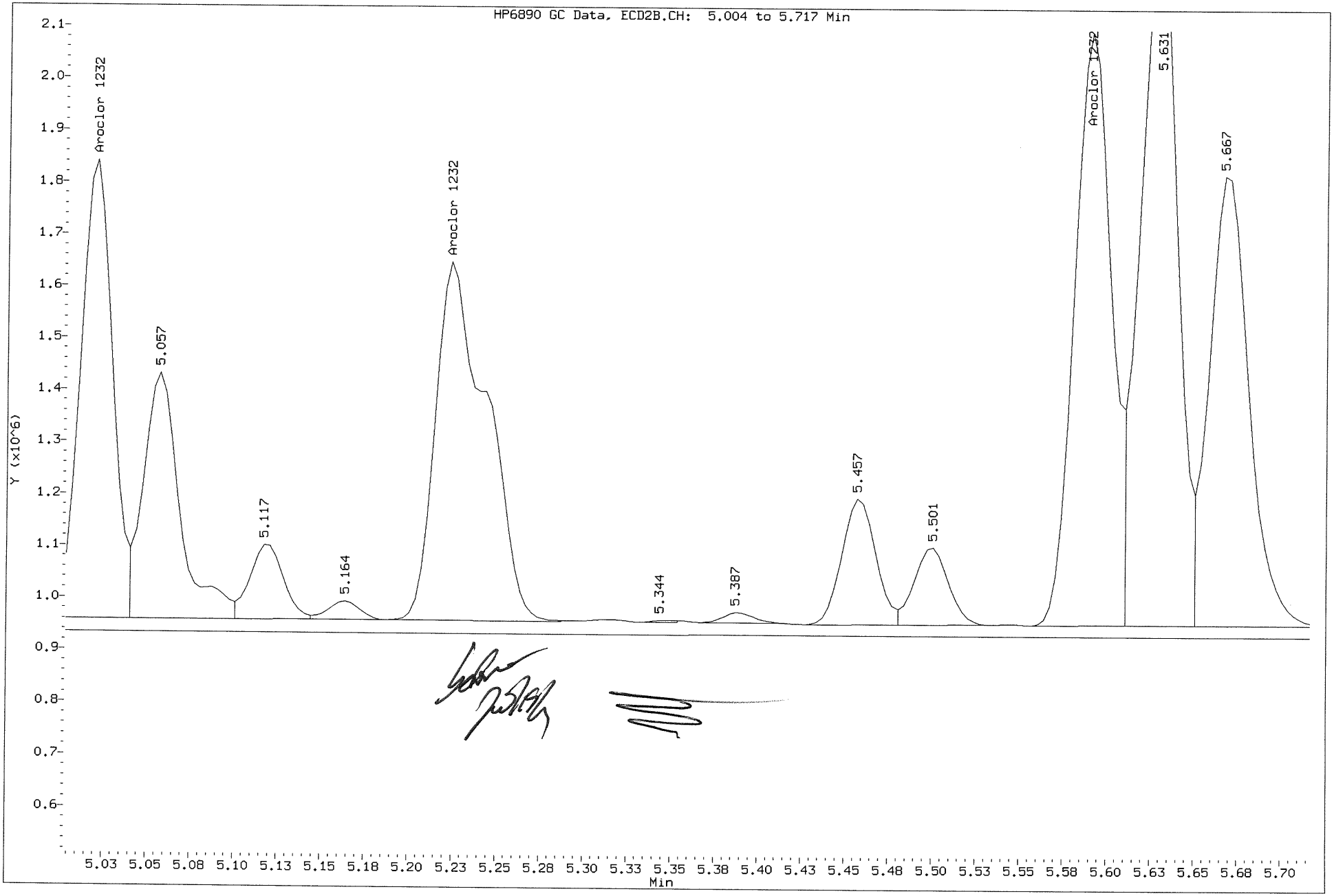
Operator: JMSmith

Column phase: DB-XLB

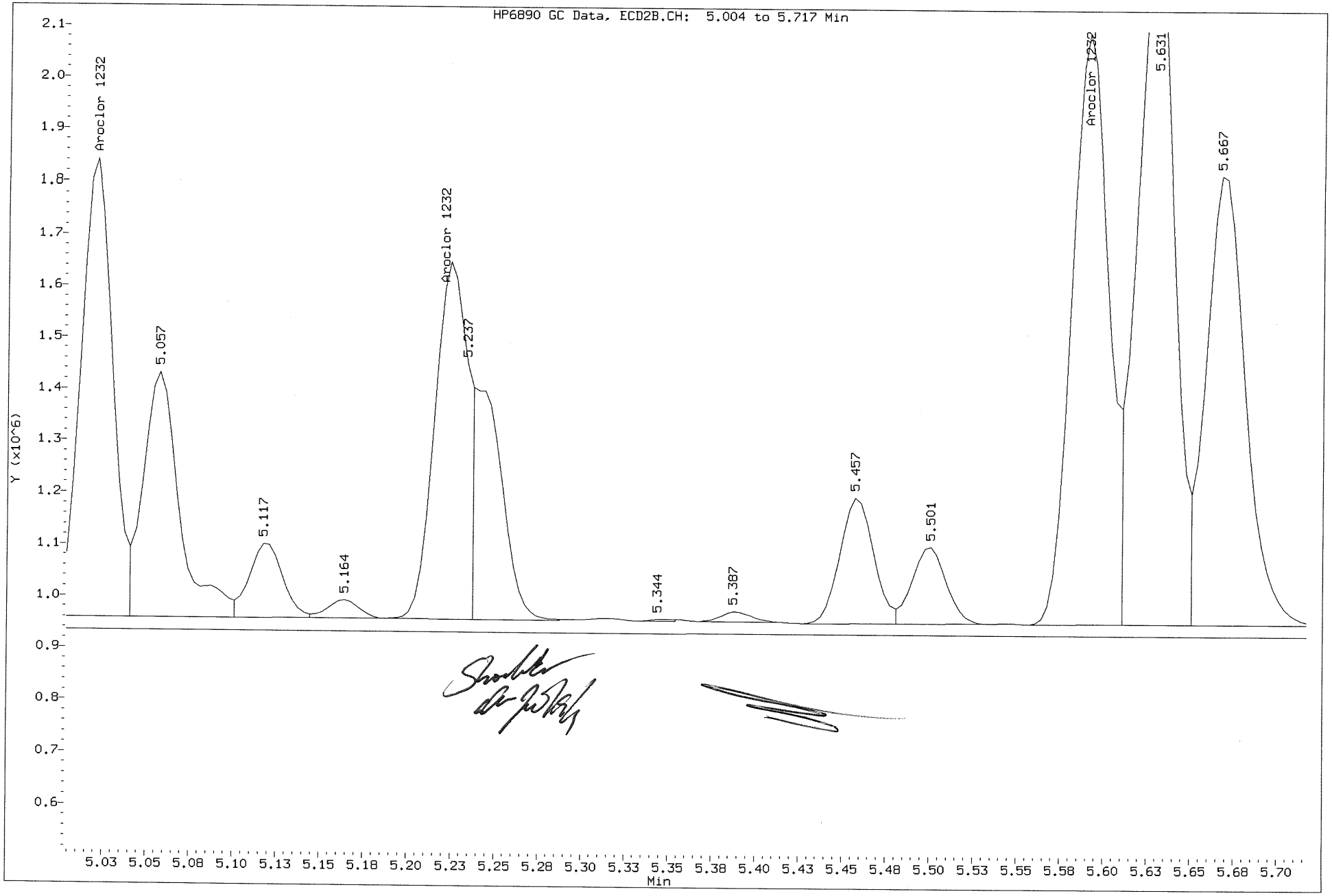
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

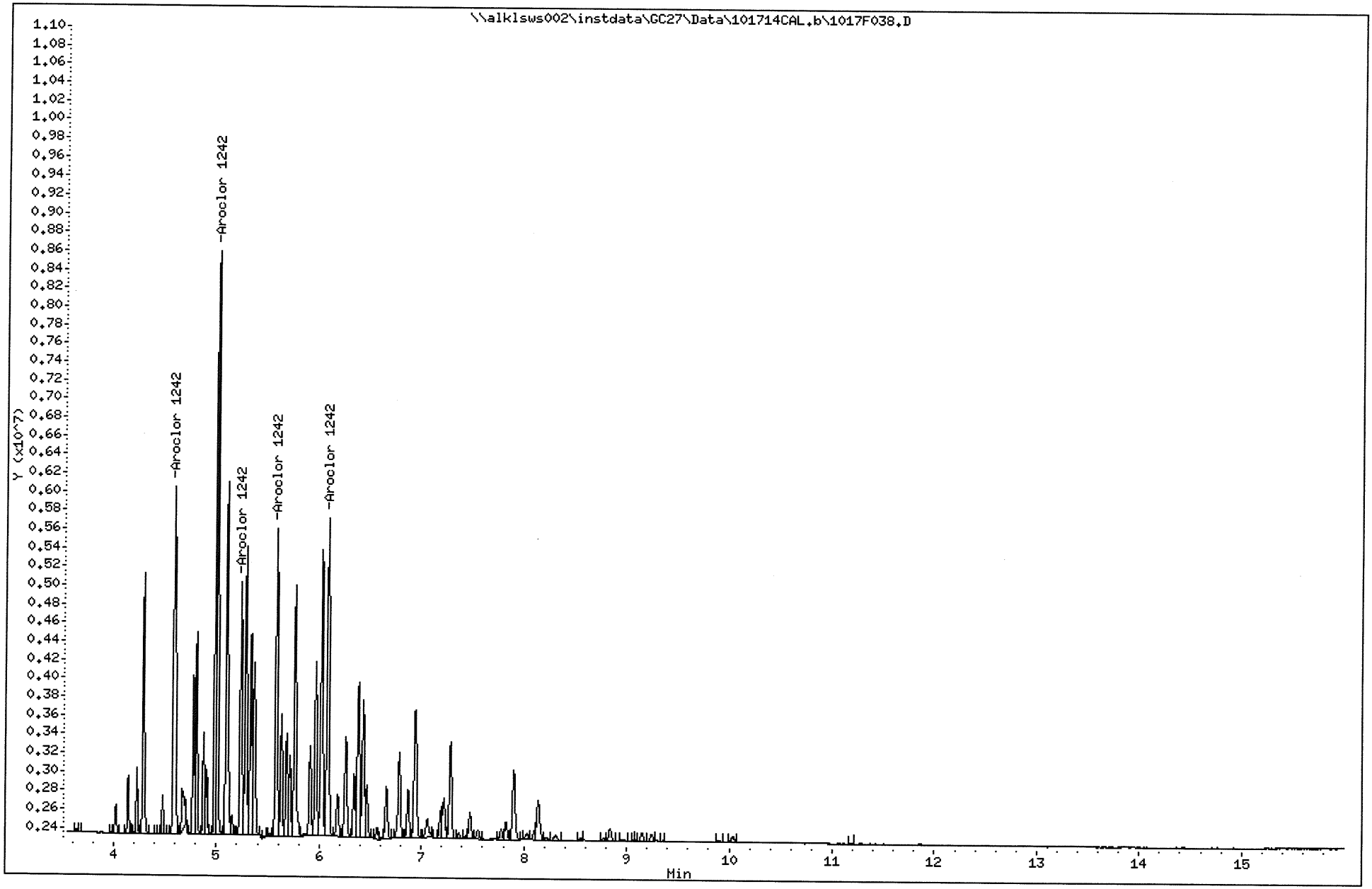
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

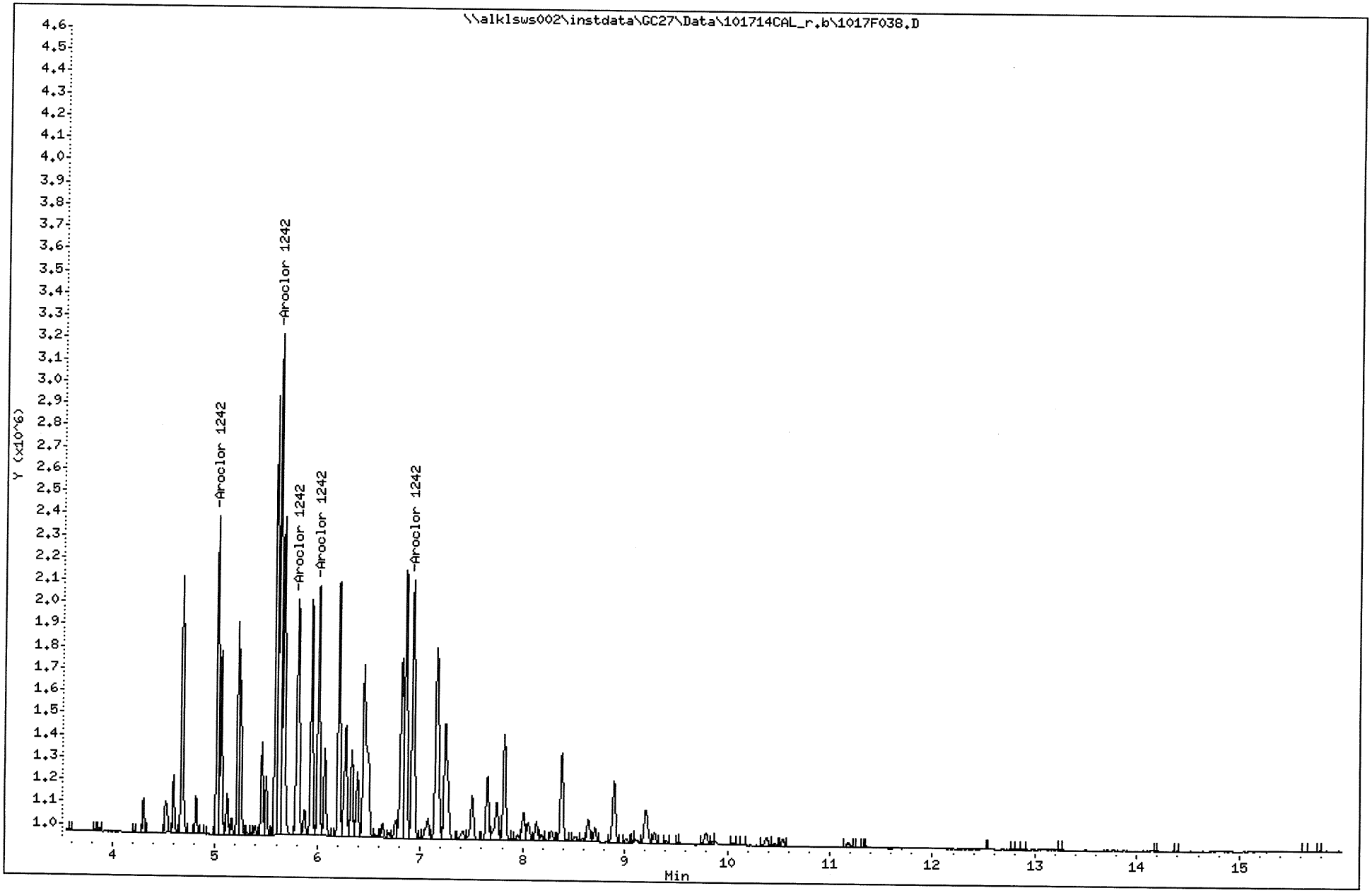


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

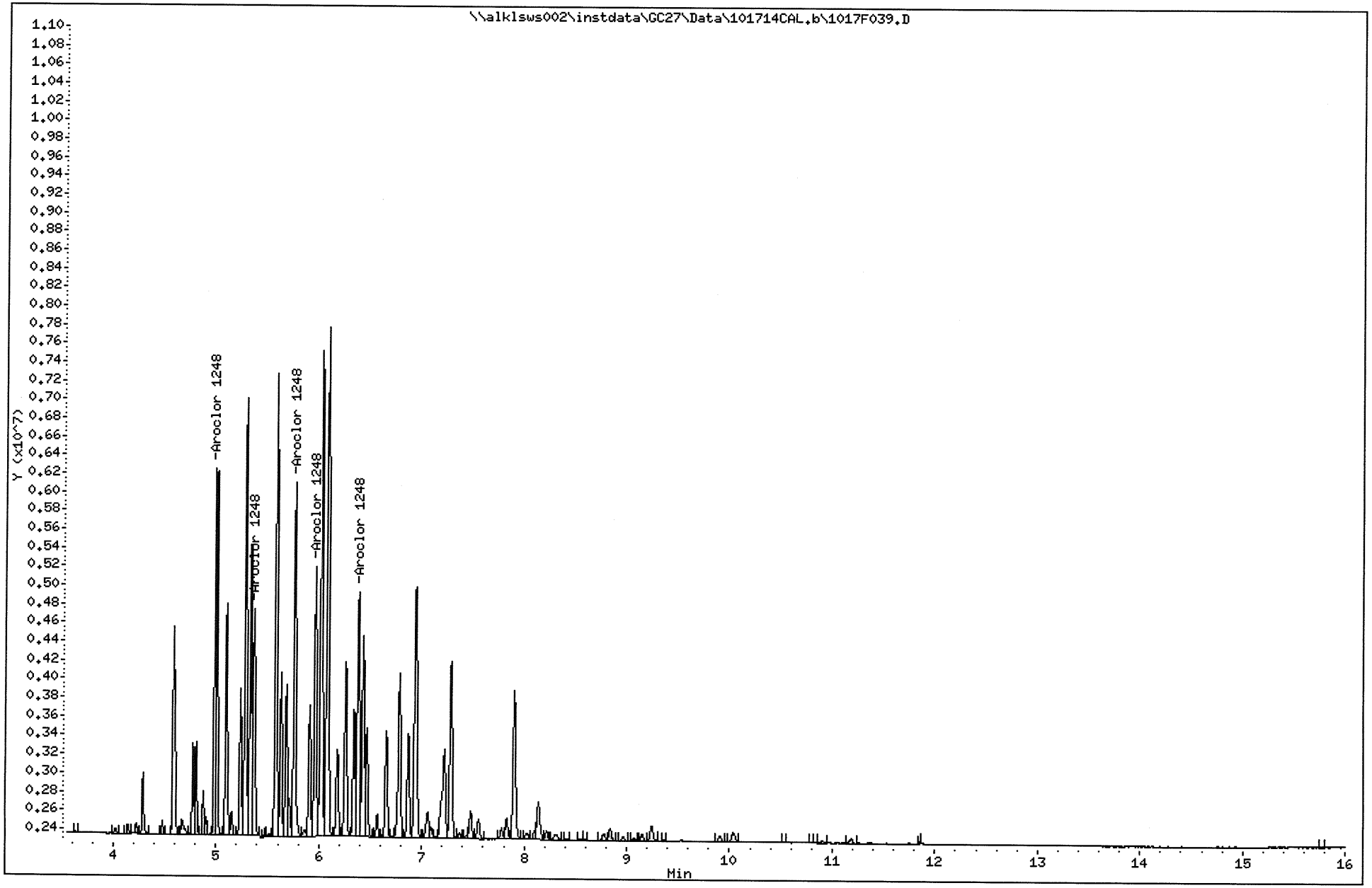
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



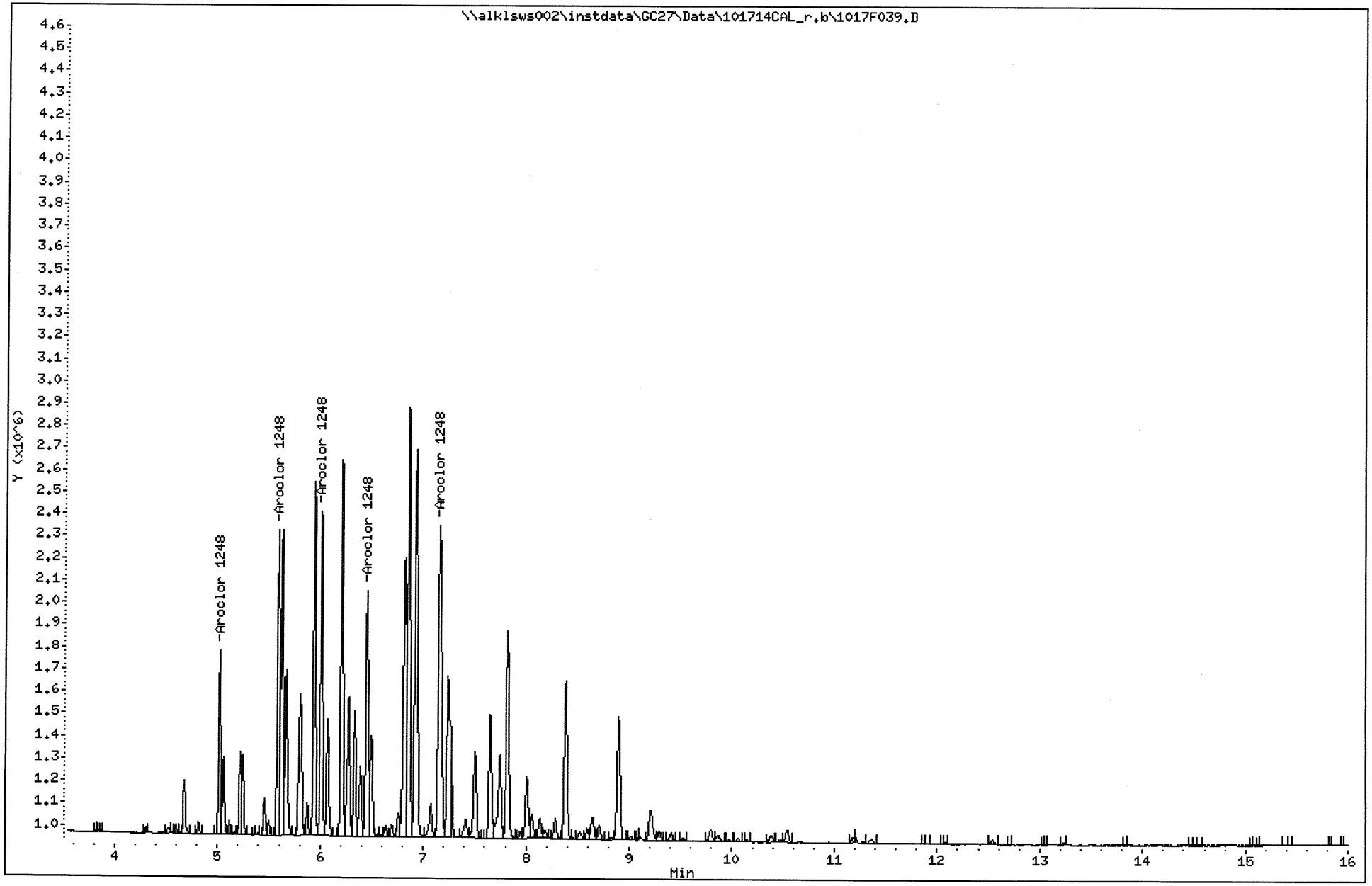
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

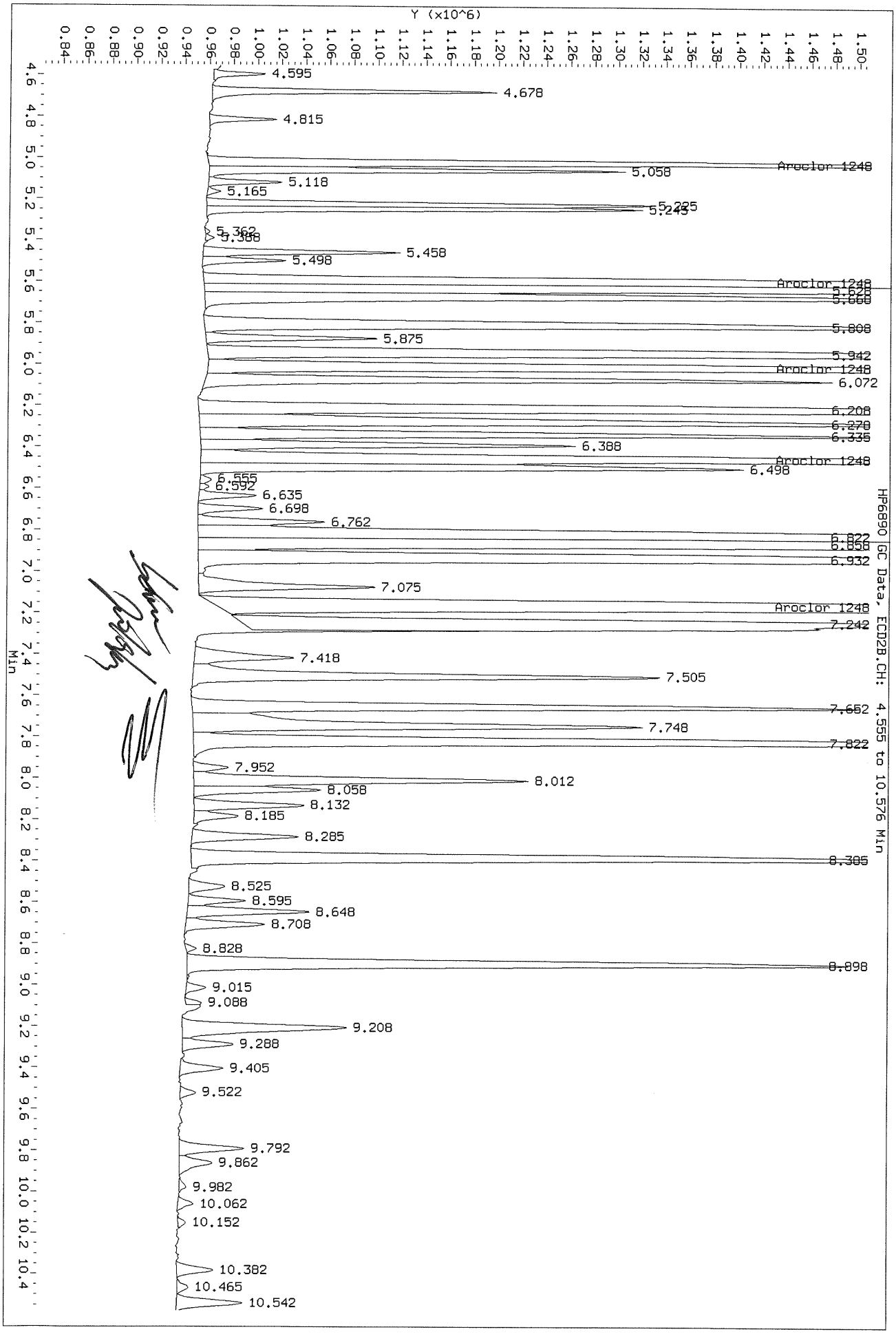
Operator: JMSmith

Column phase: DB-XLB

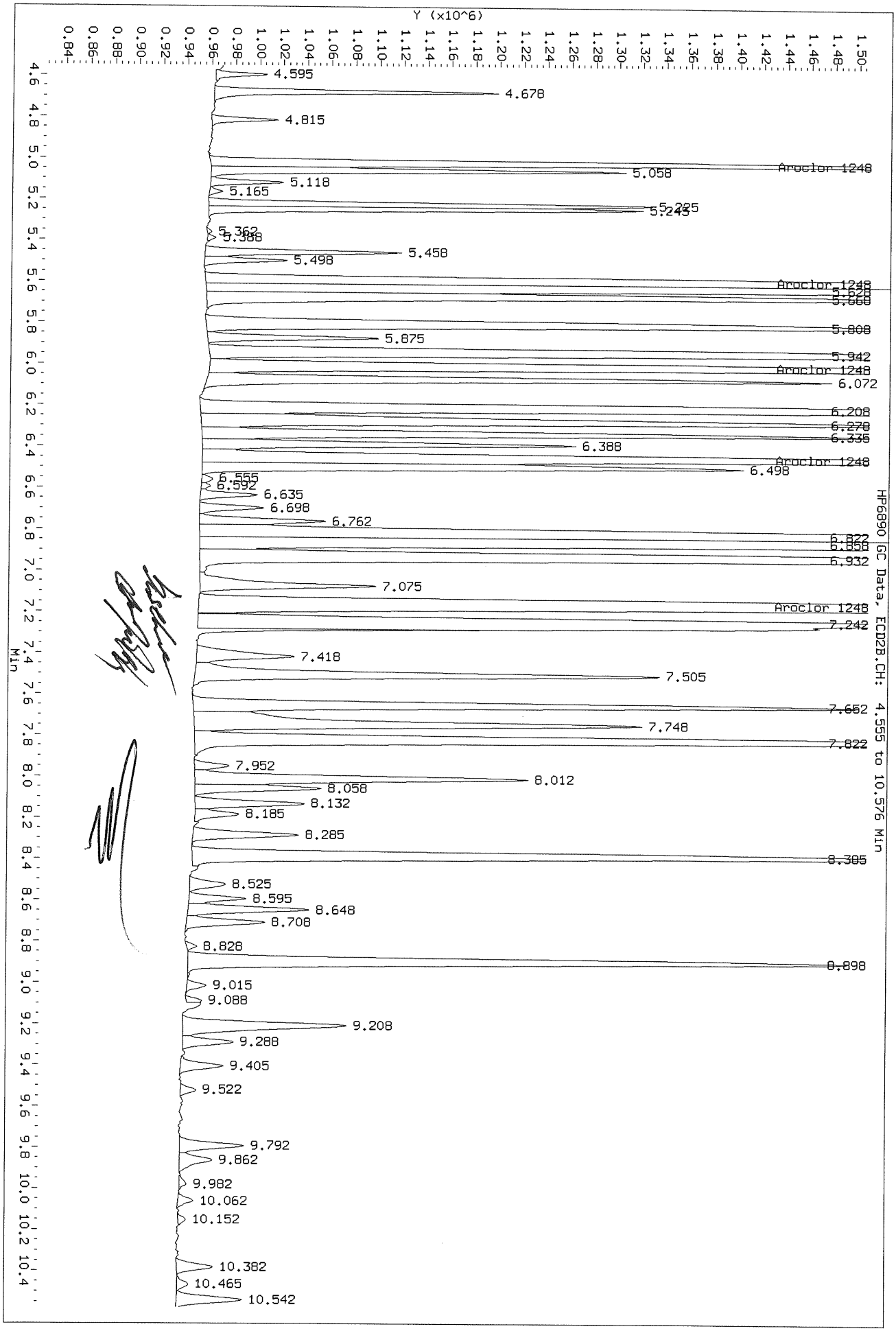
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:



HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
6.278
6.335
6.388
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
8.305
8.525
8.595
8.648
8.708
8.828
8.898
9.015
9.088
9.208
9.288
9.405
9.522
9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

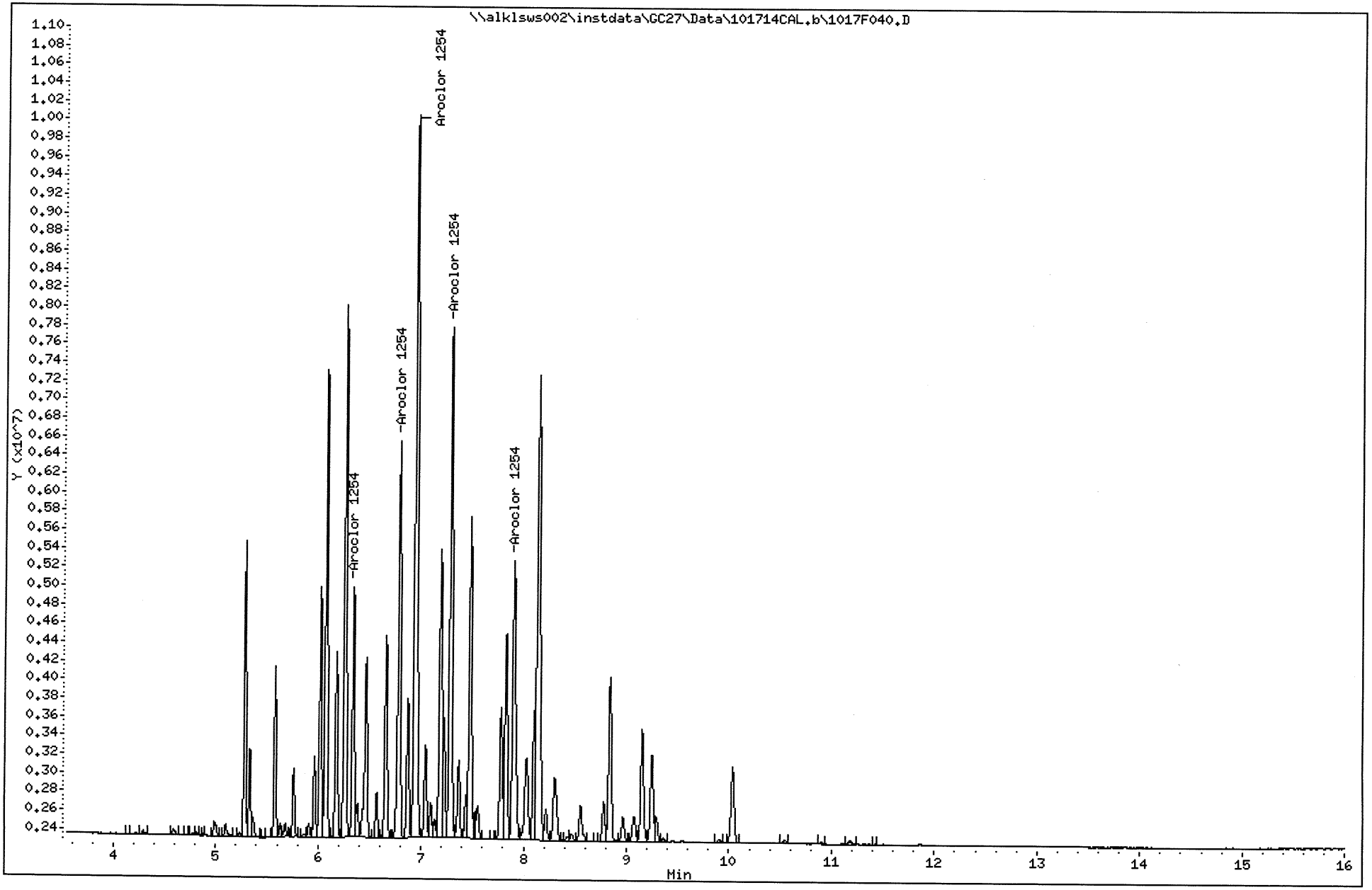
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



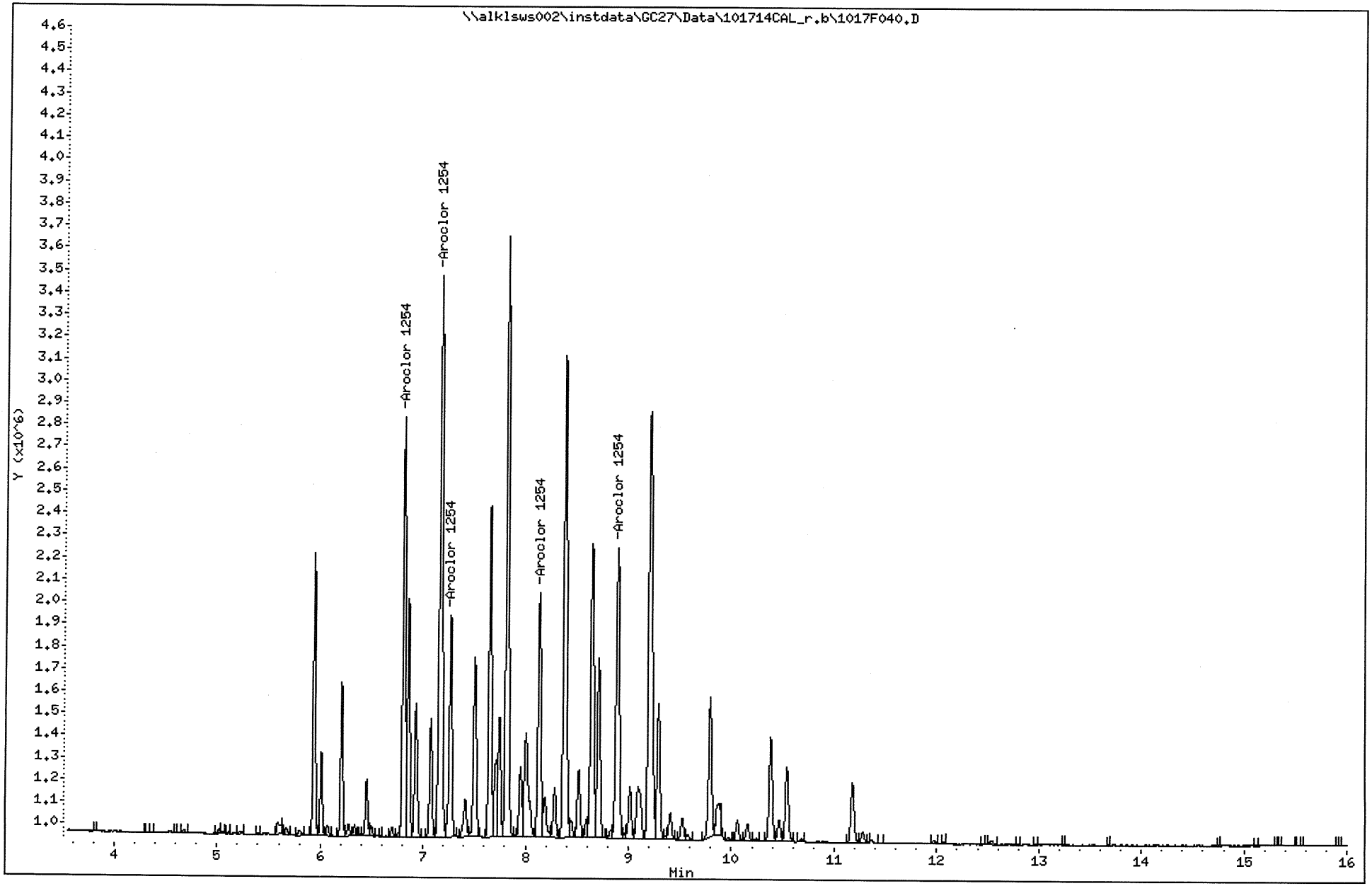
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

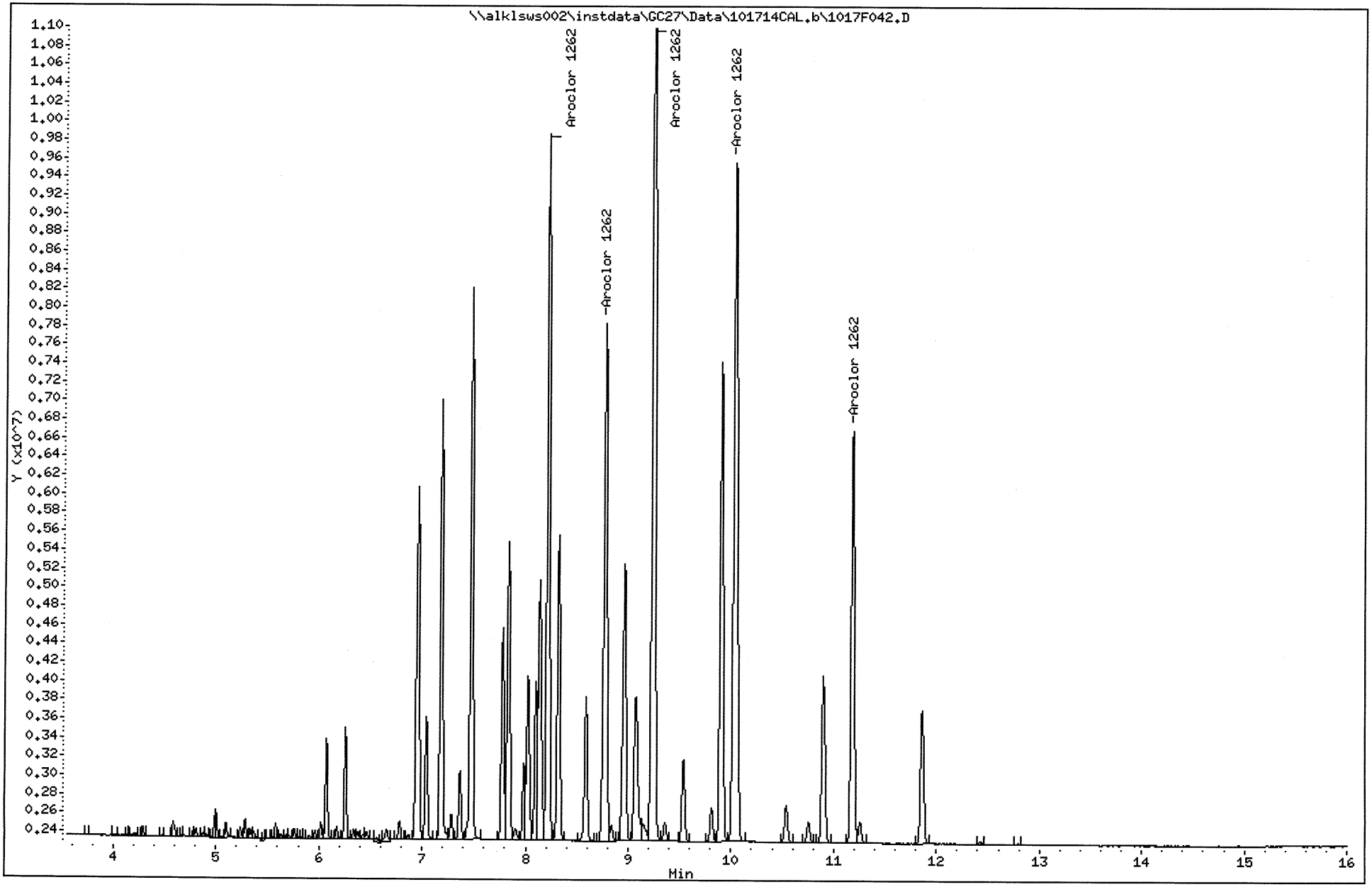
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



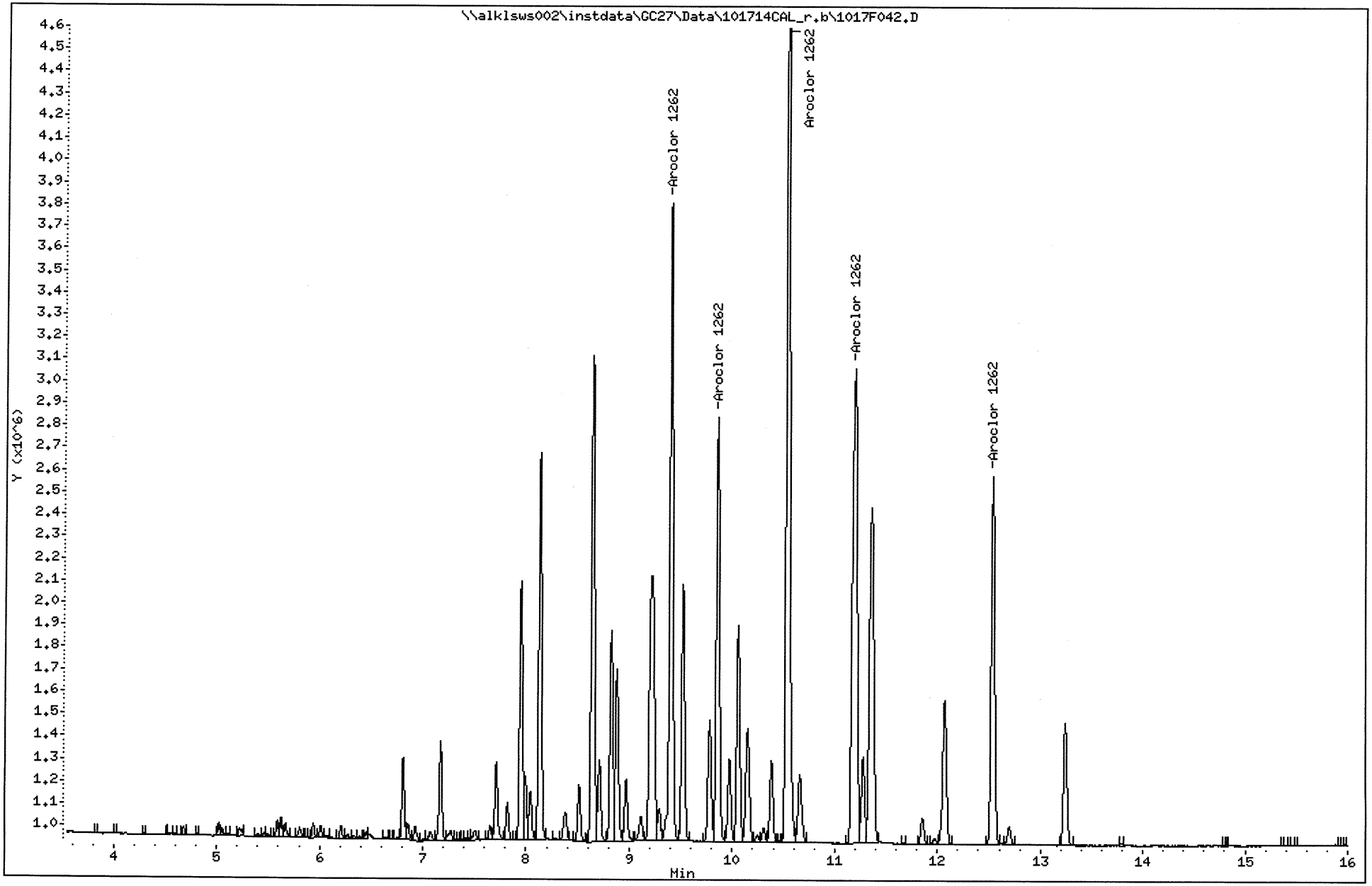
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

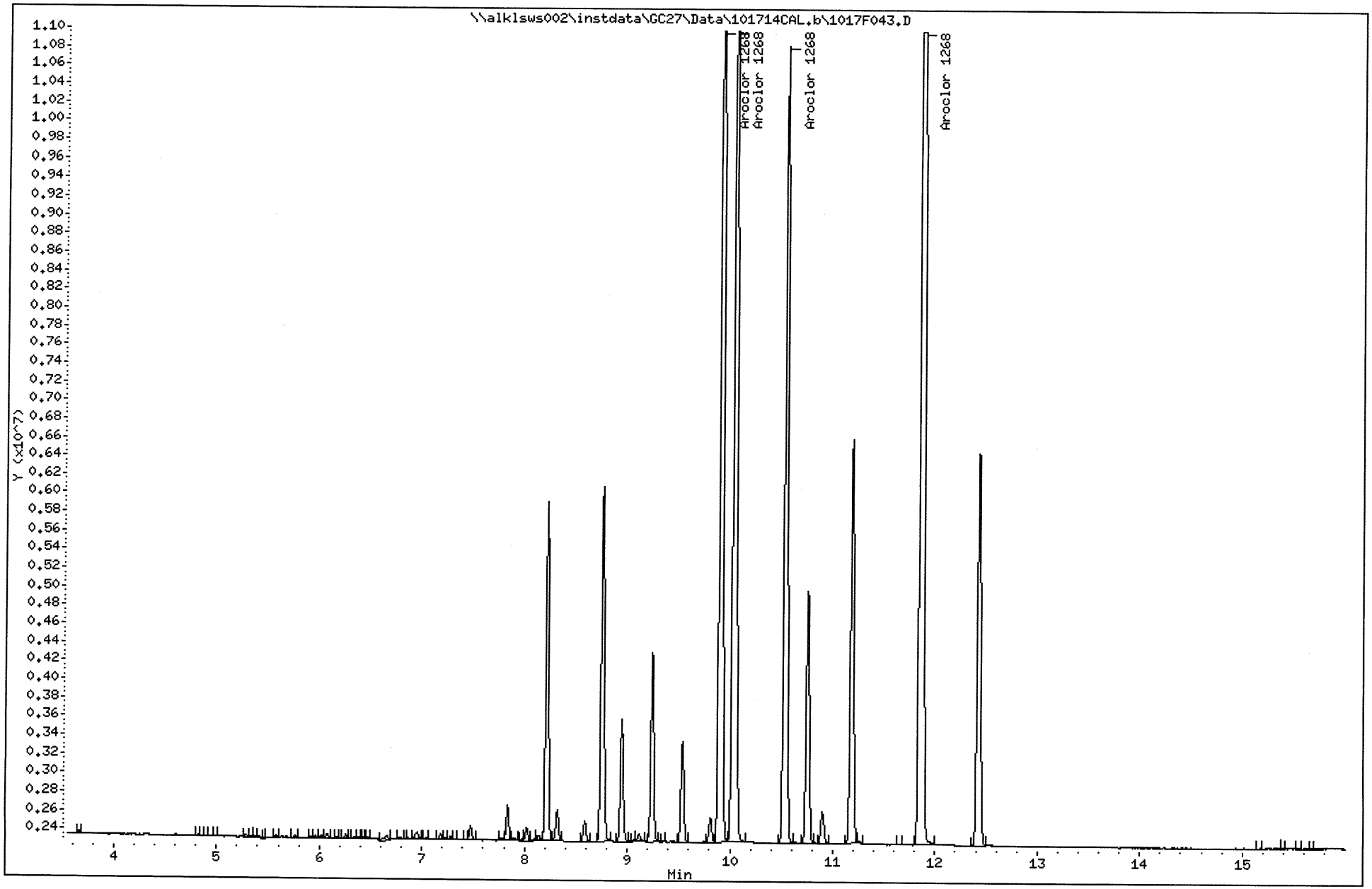
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



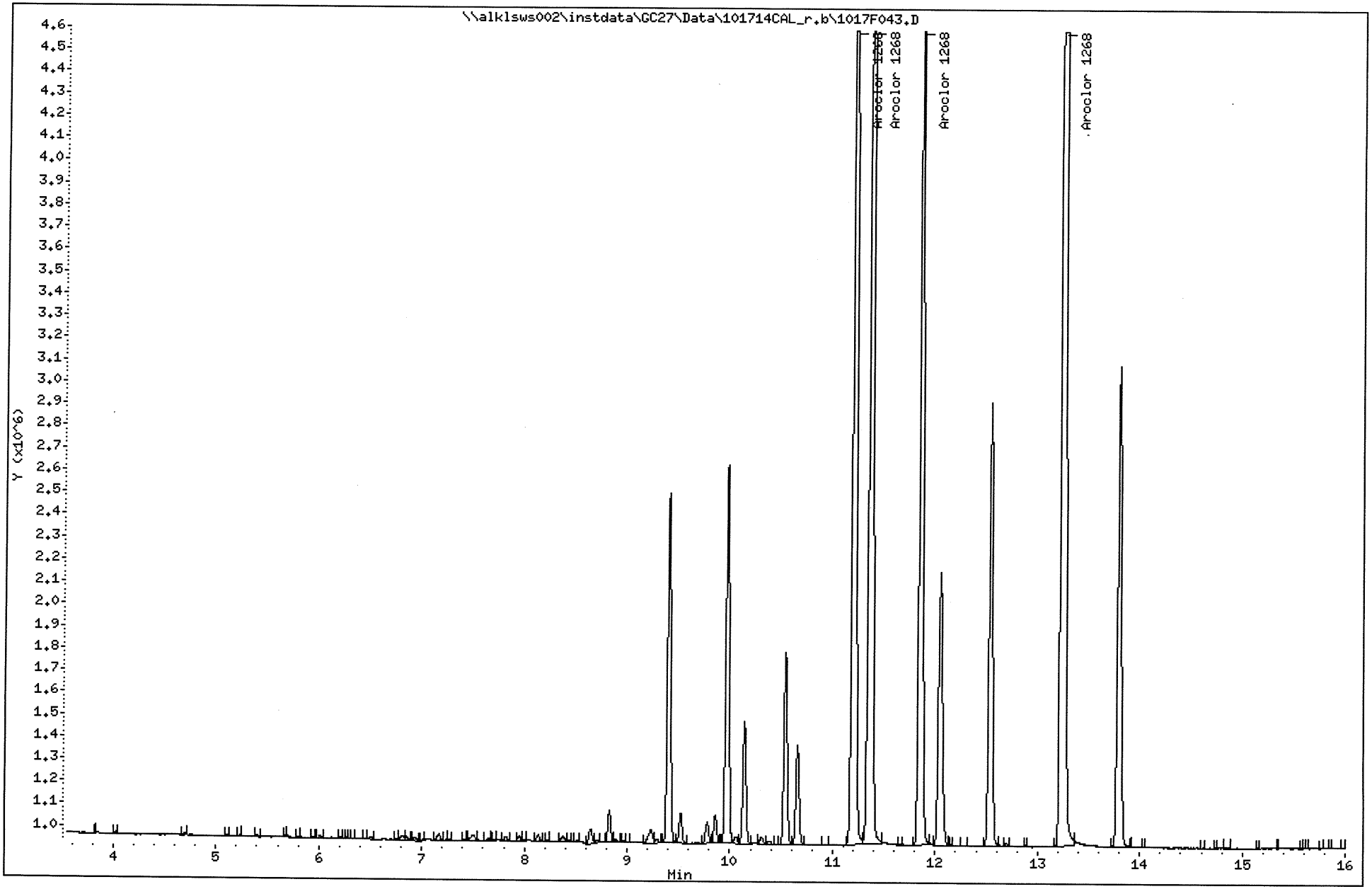
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

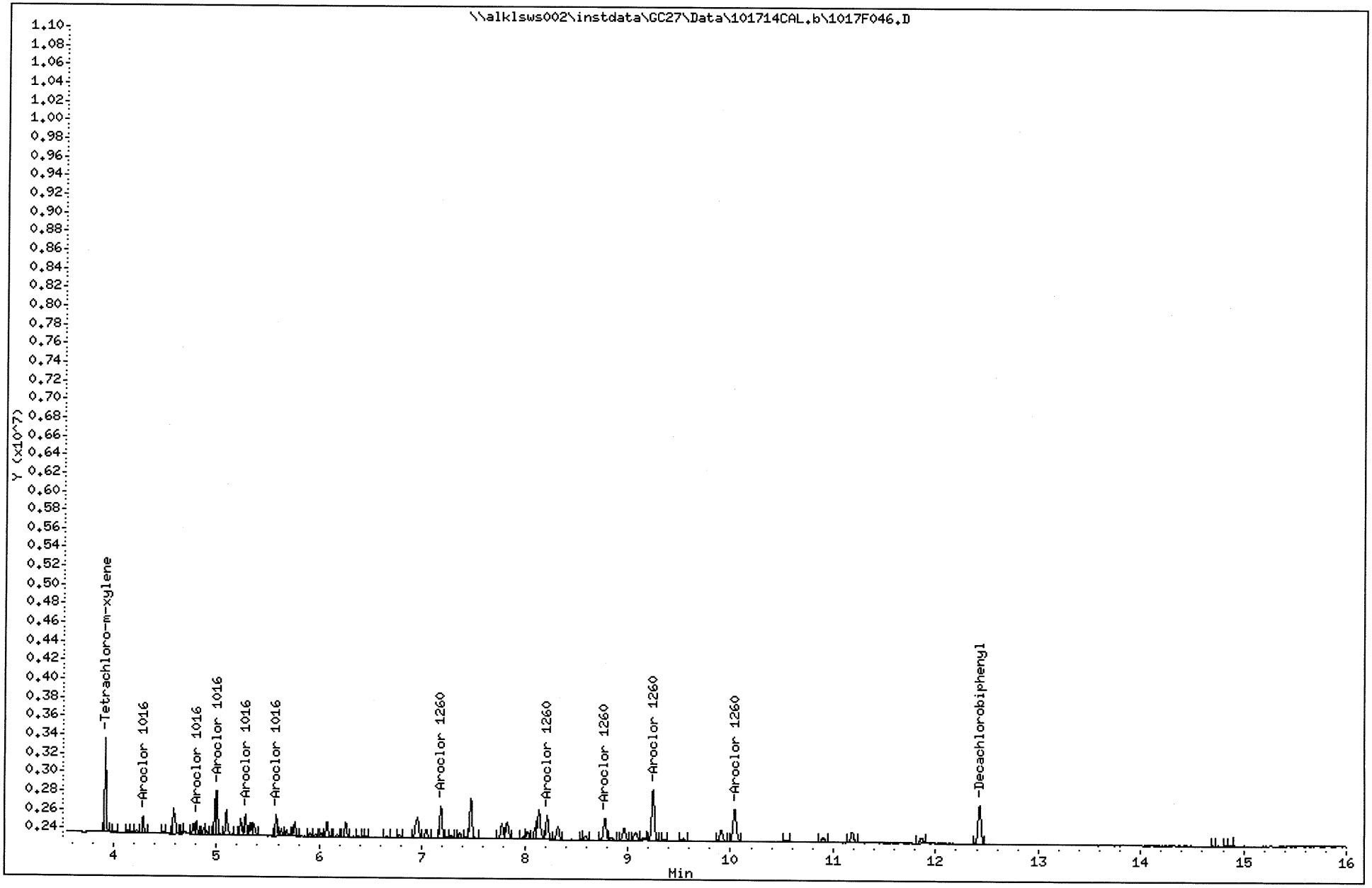
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

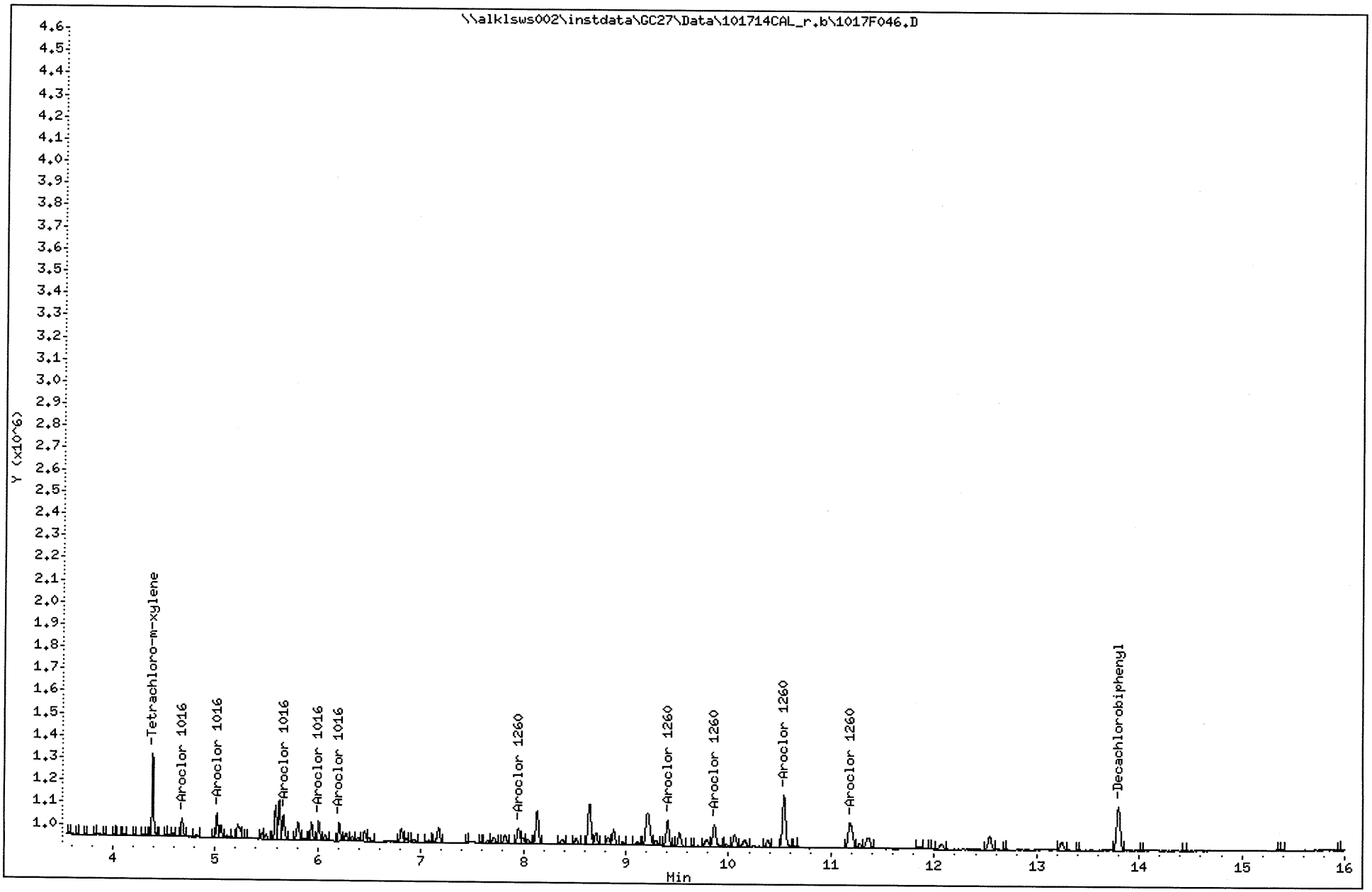


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

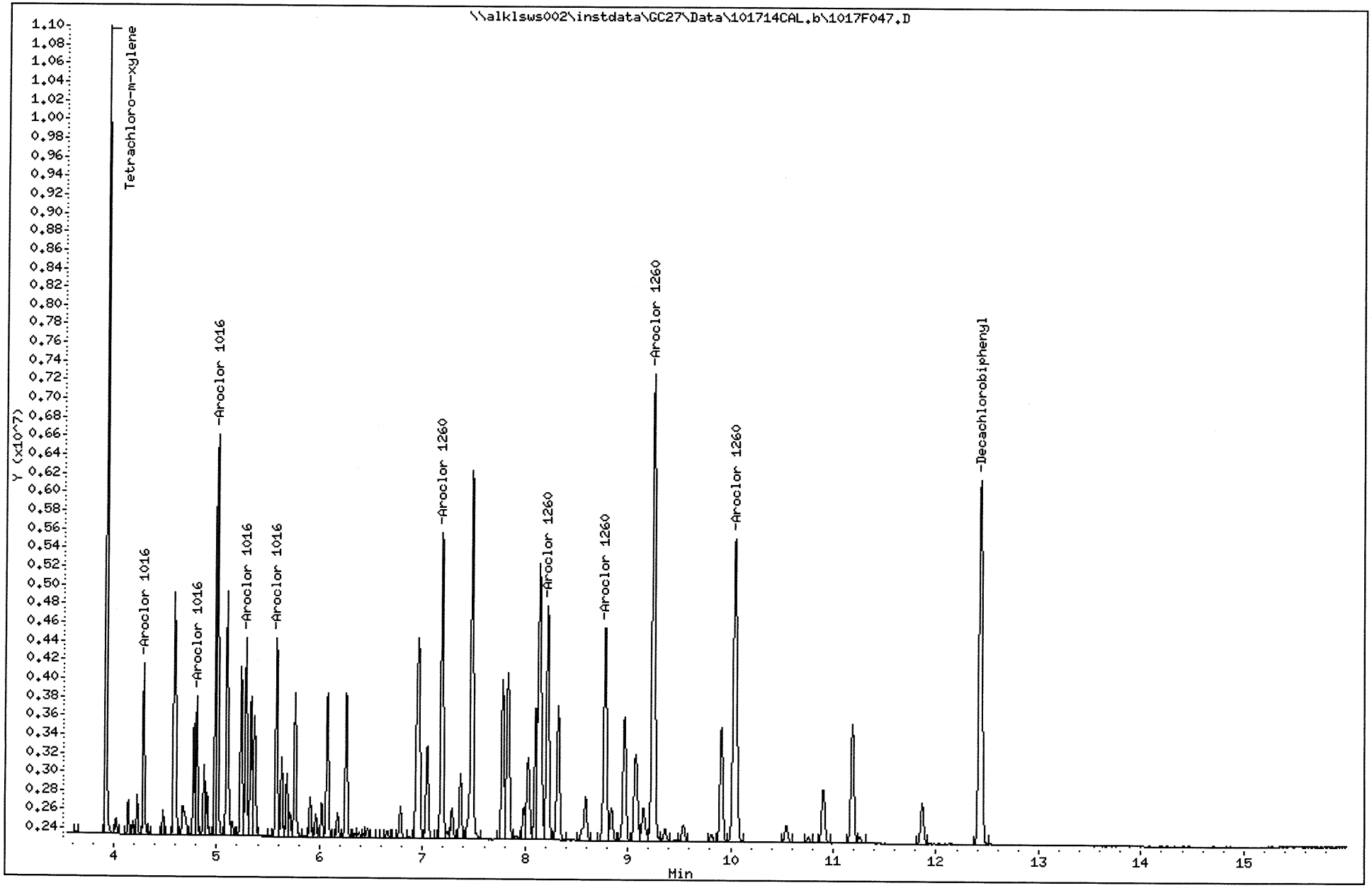
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



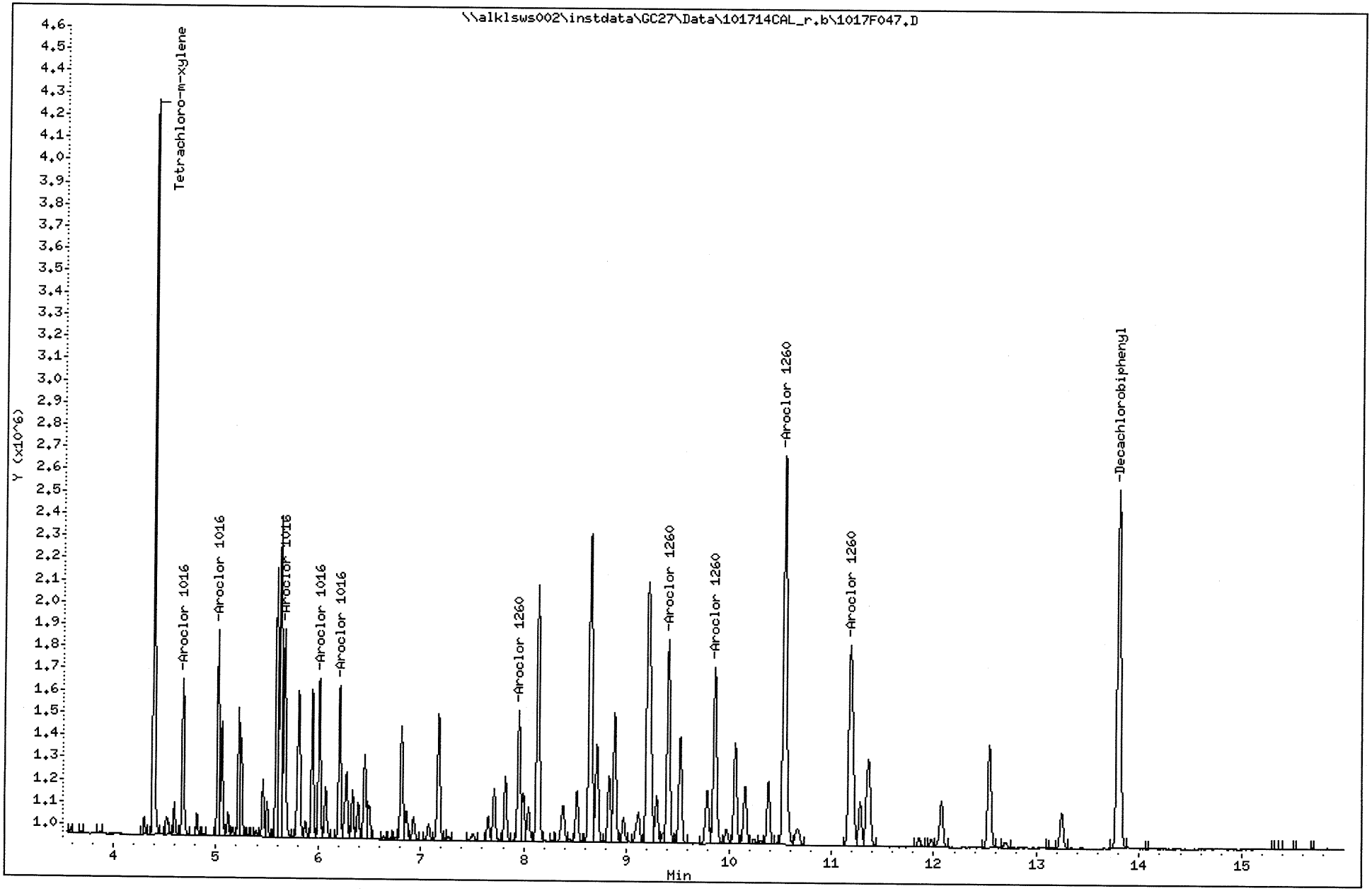
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

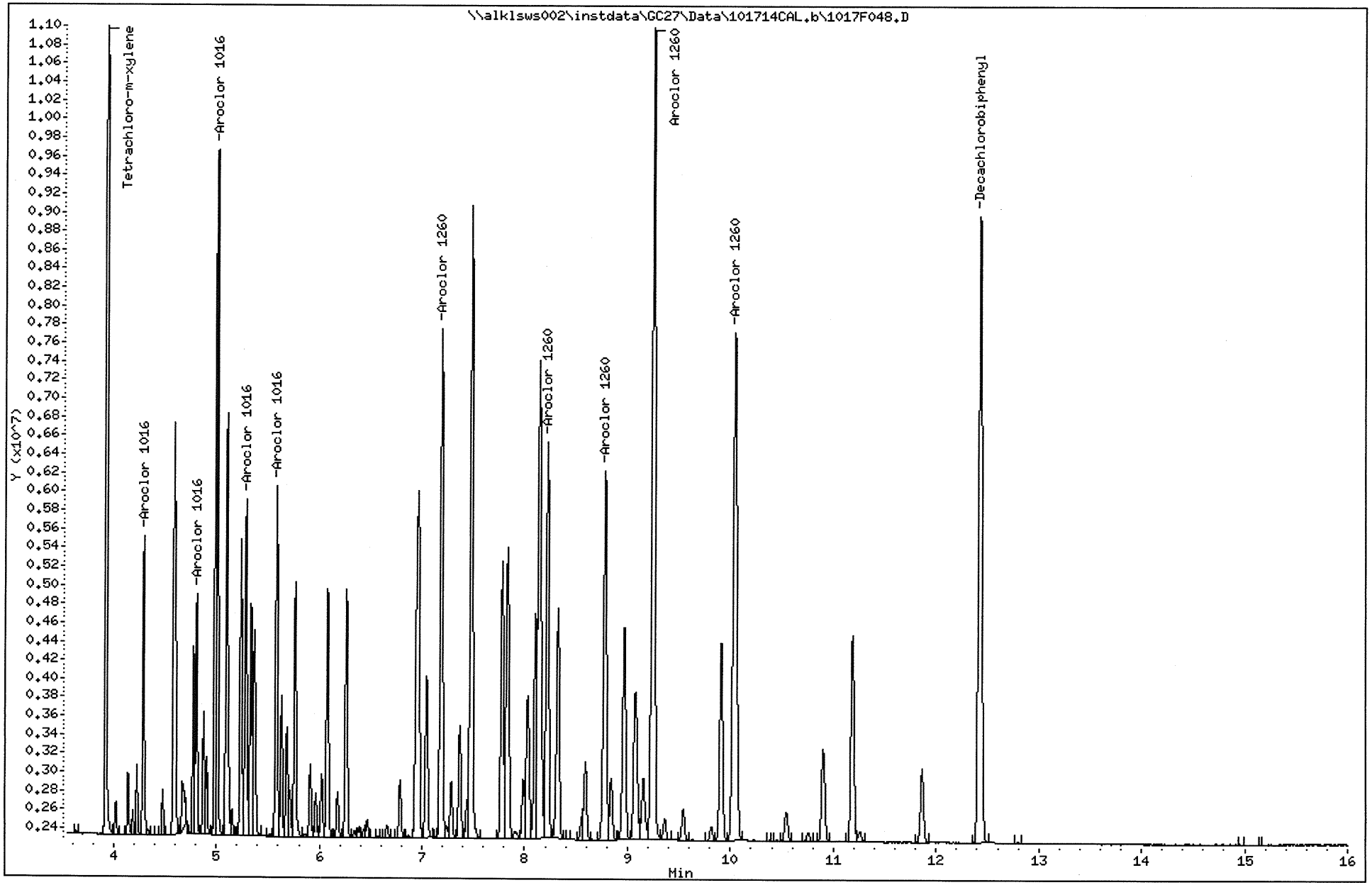
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

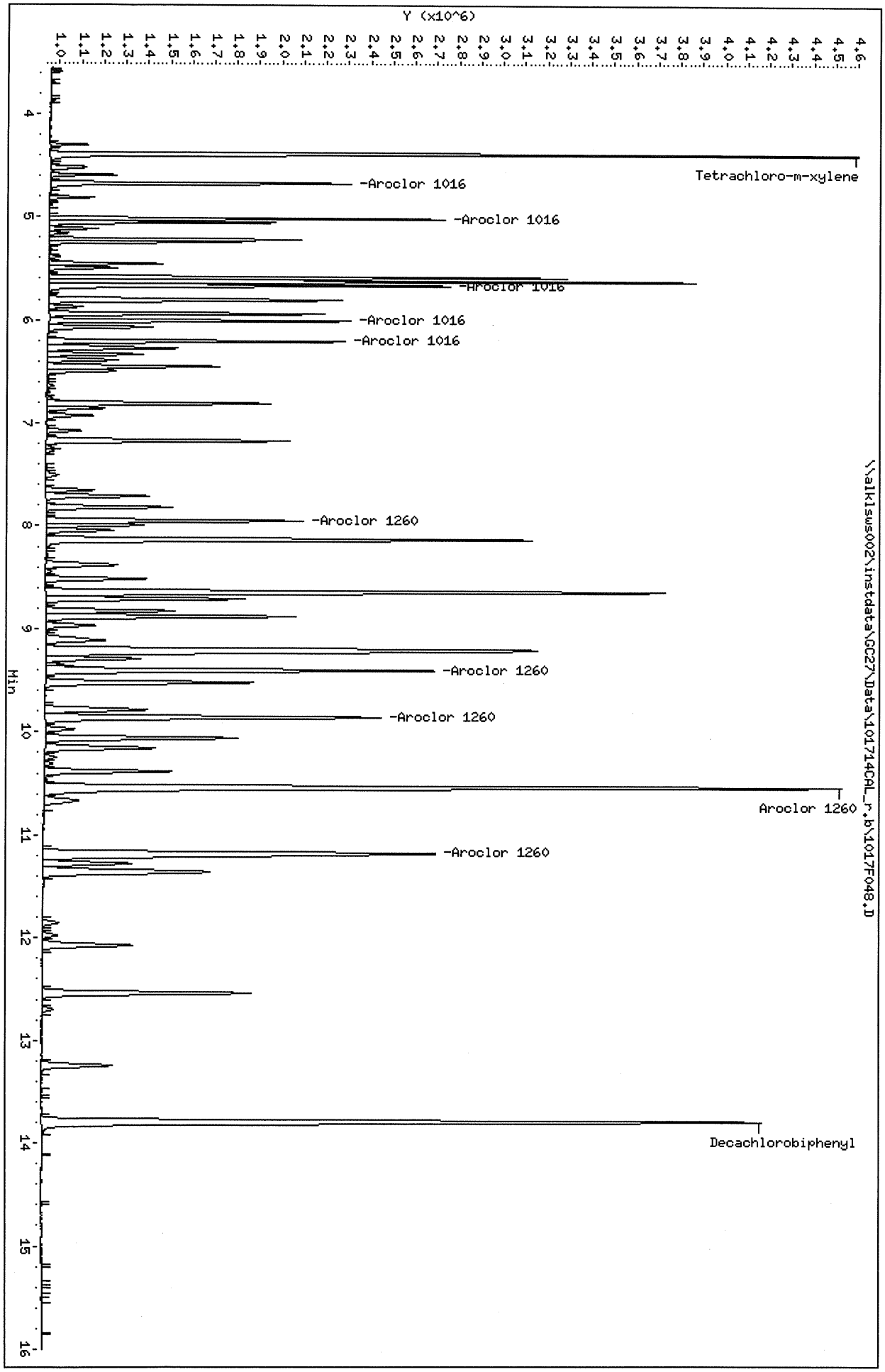
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Column phase: DB-XLB

Instrument: GC27.i
Operator: JHSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

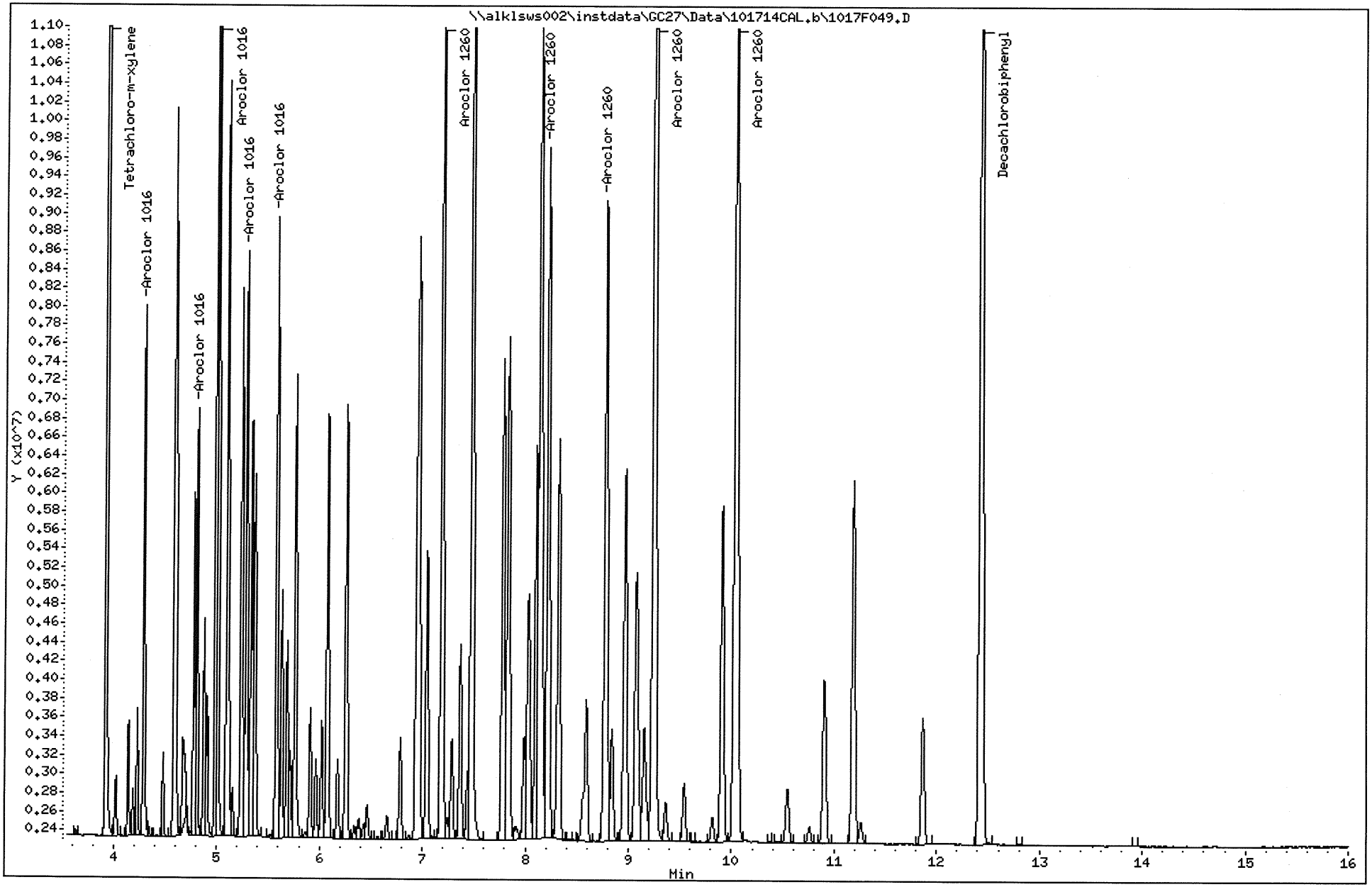
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



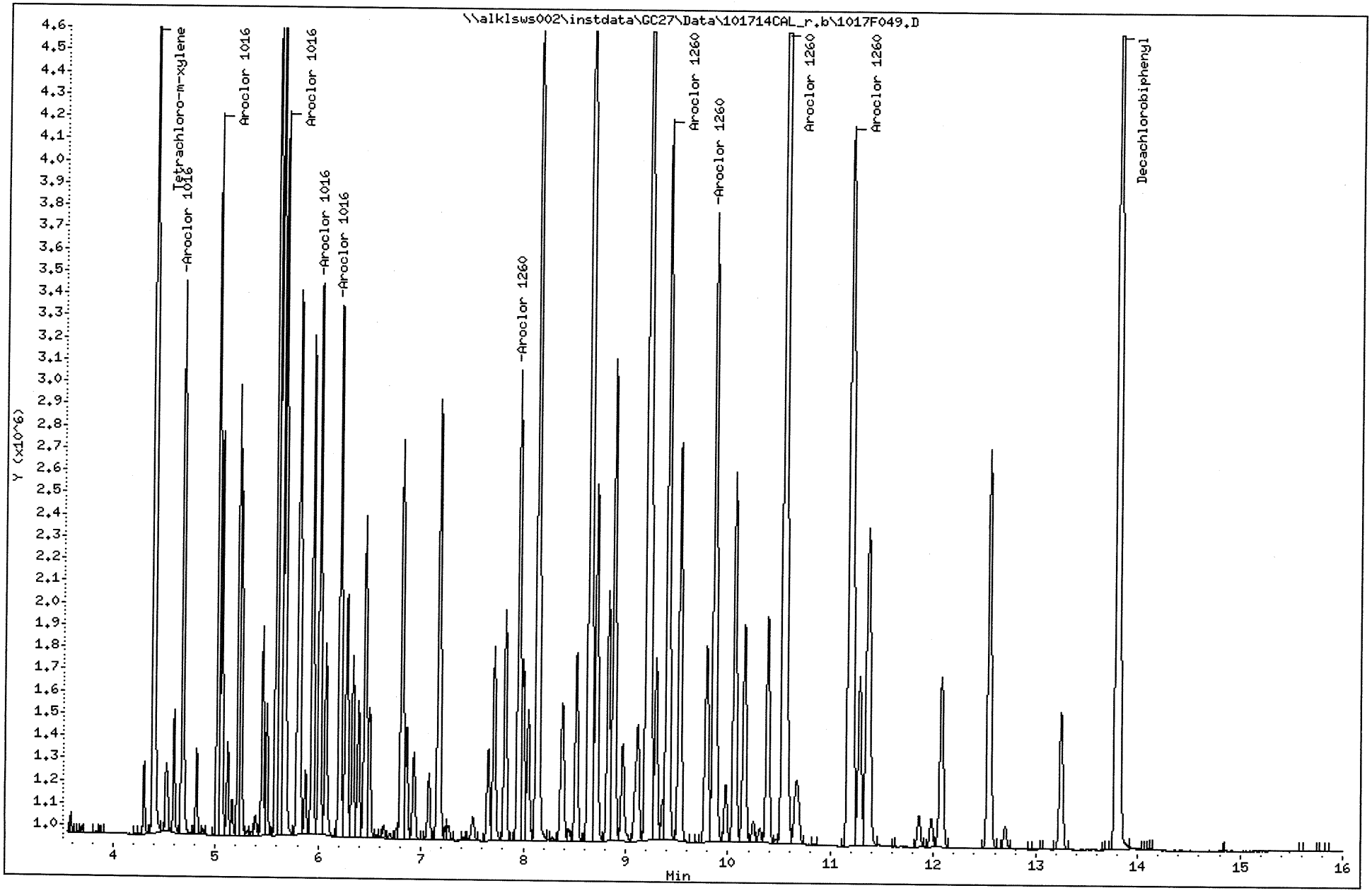
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

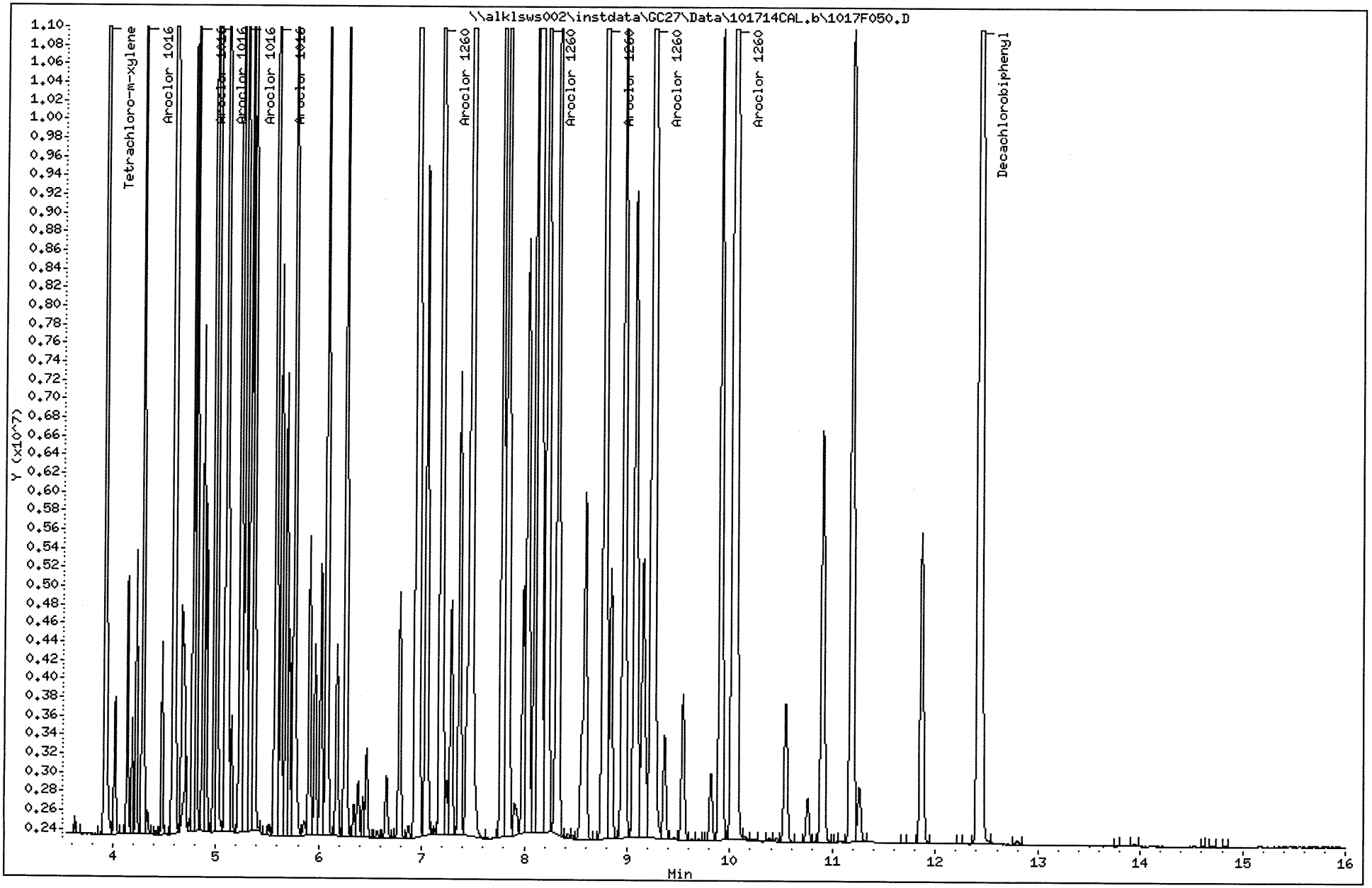
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

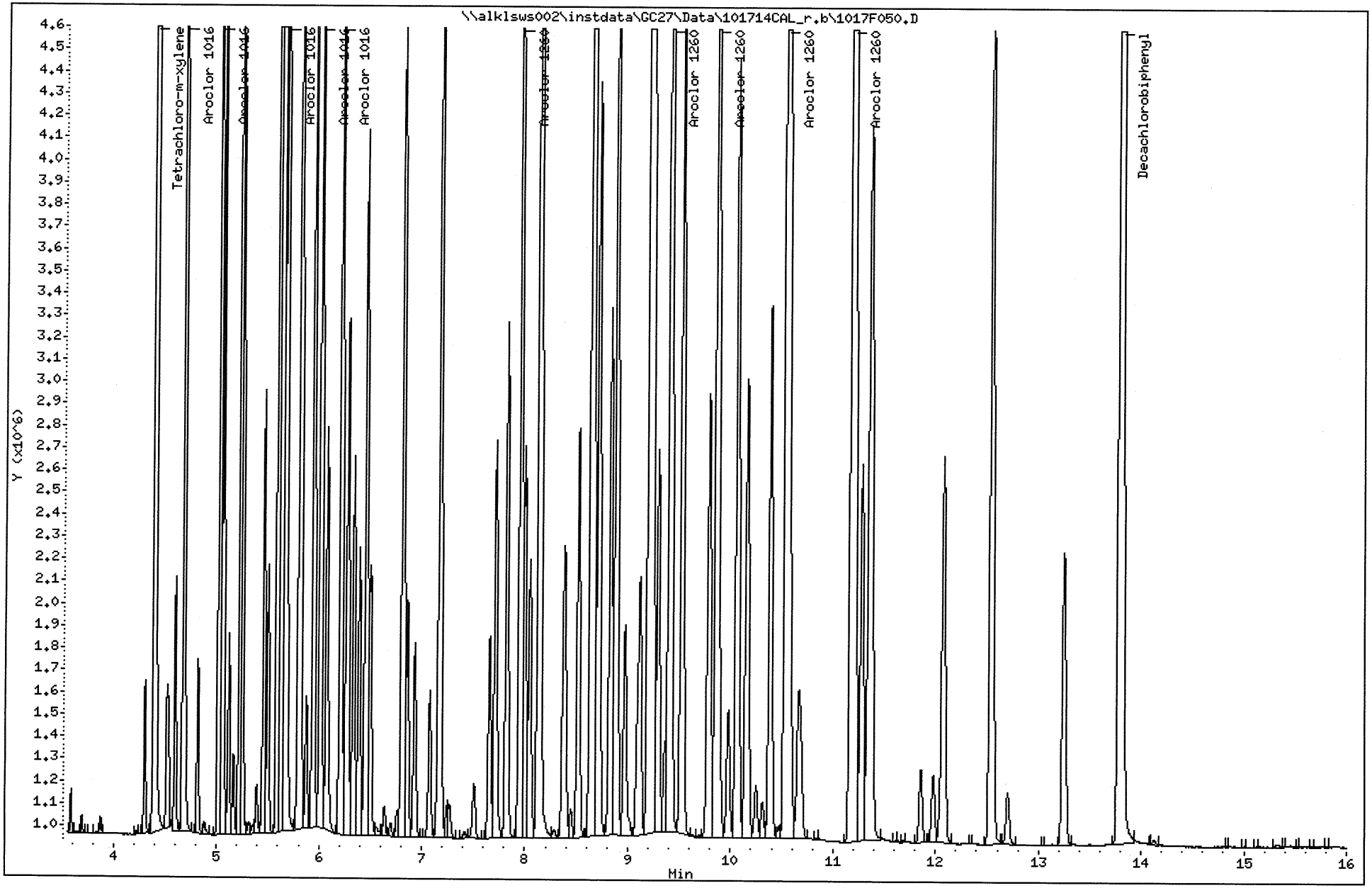


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

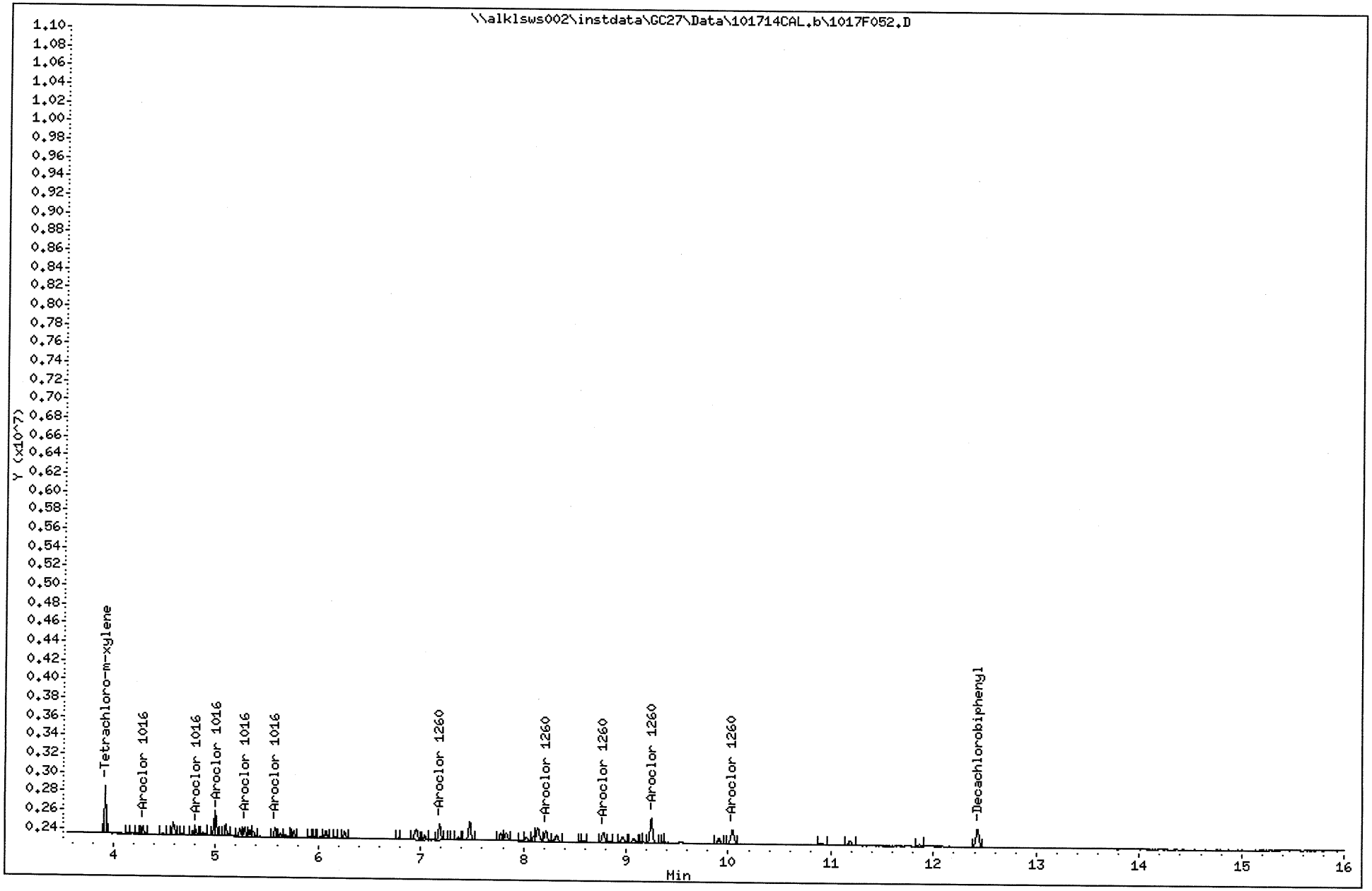
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



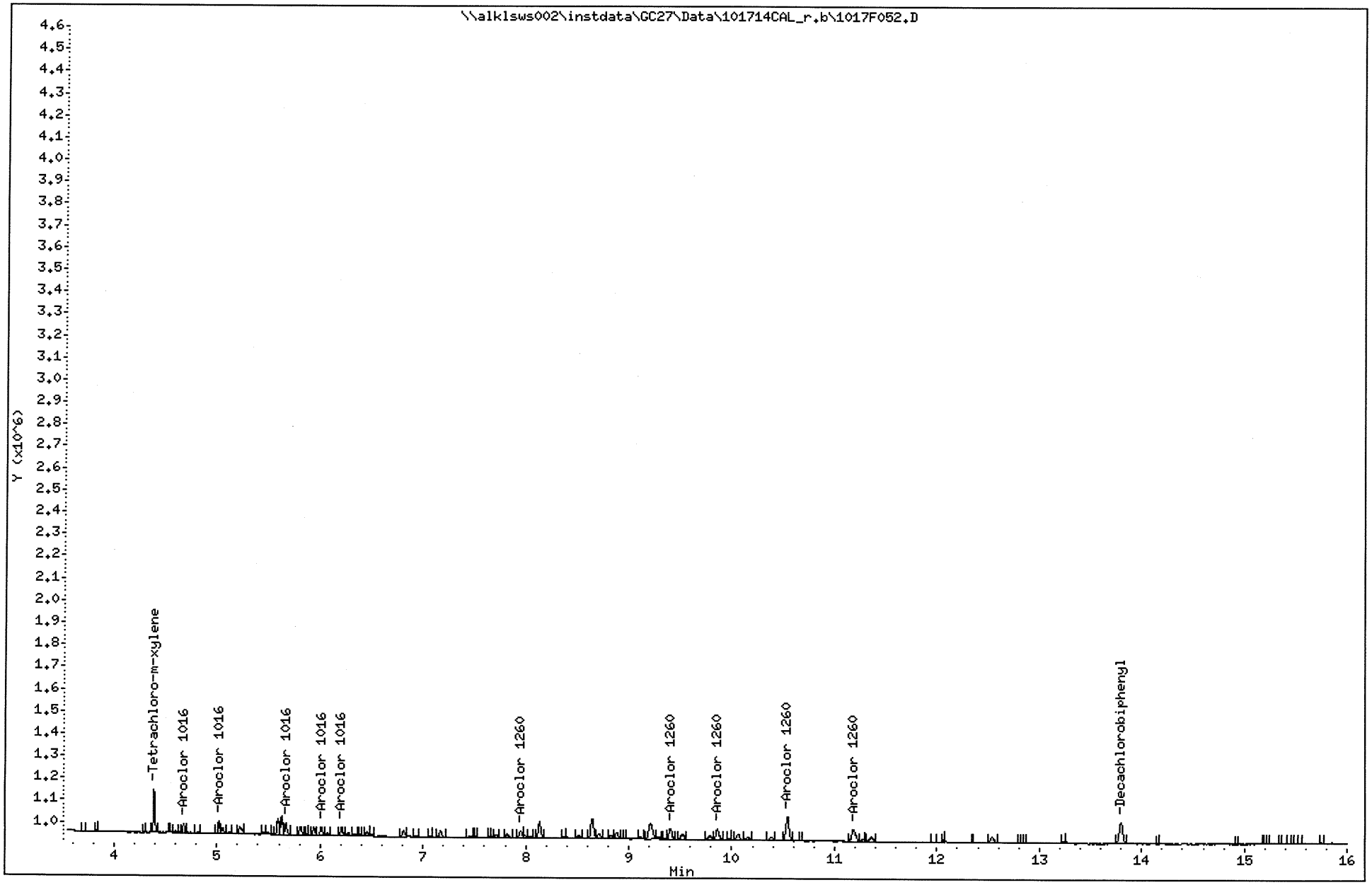
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

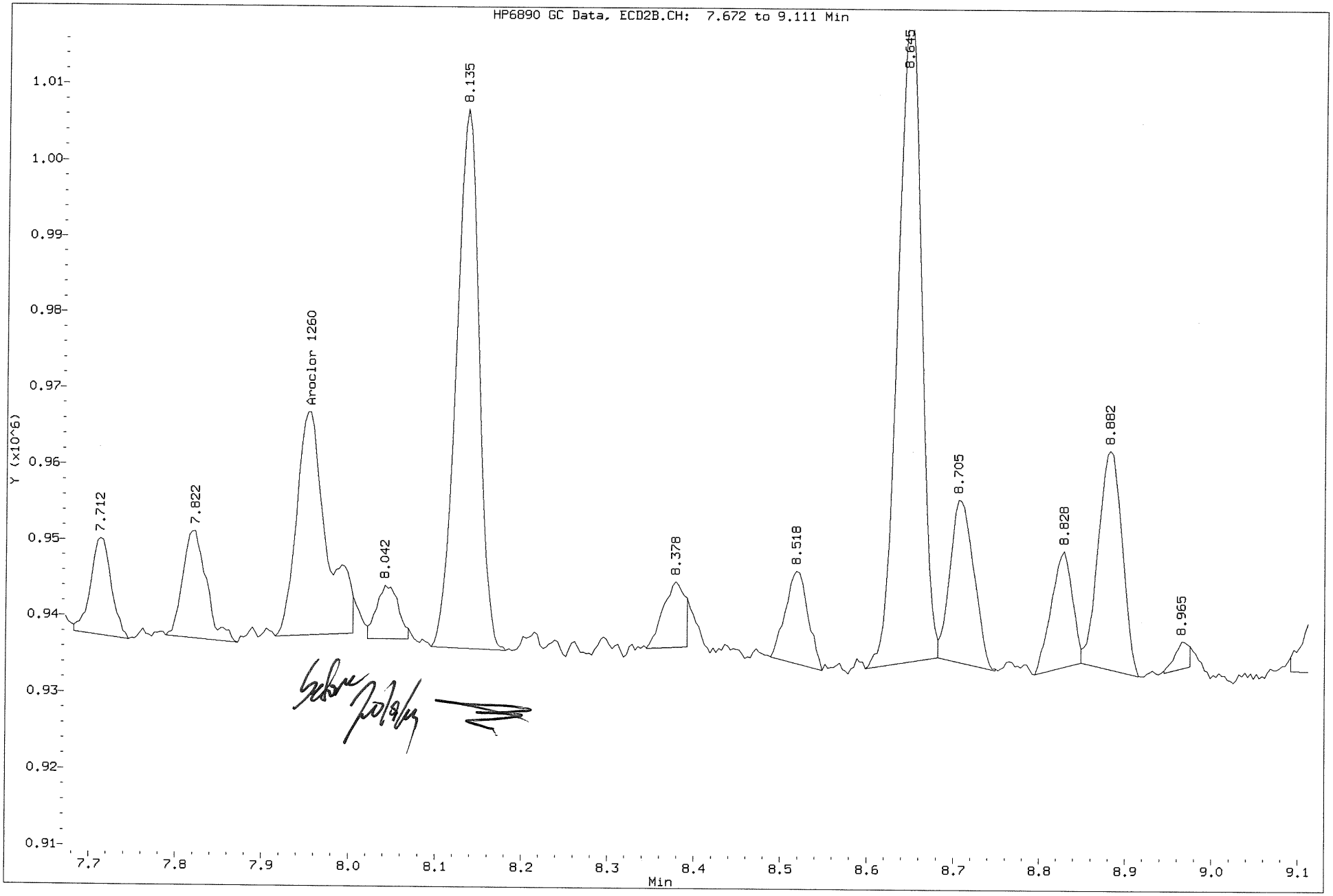
Operator: JHSmith

Column phase: DB-XLB

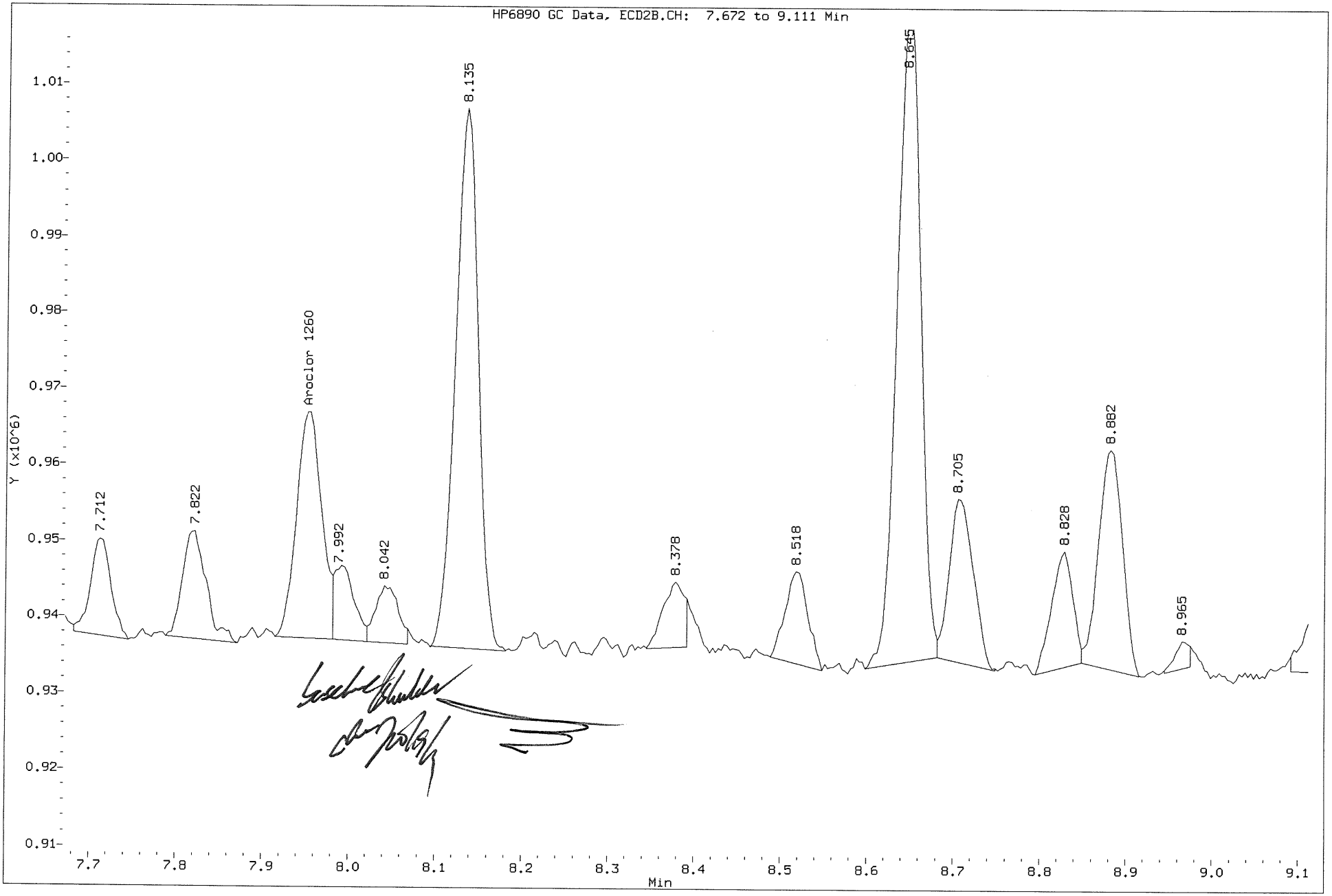
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

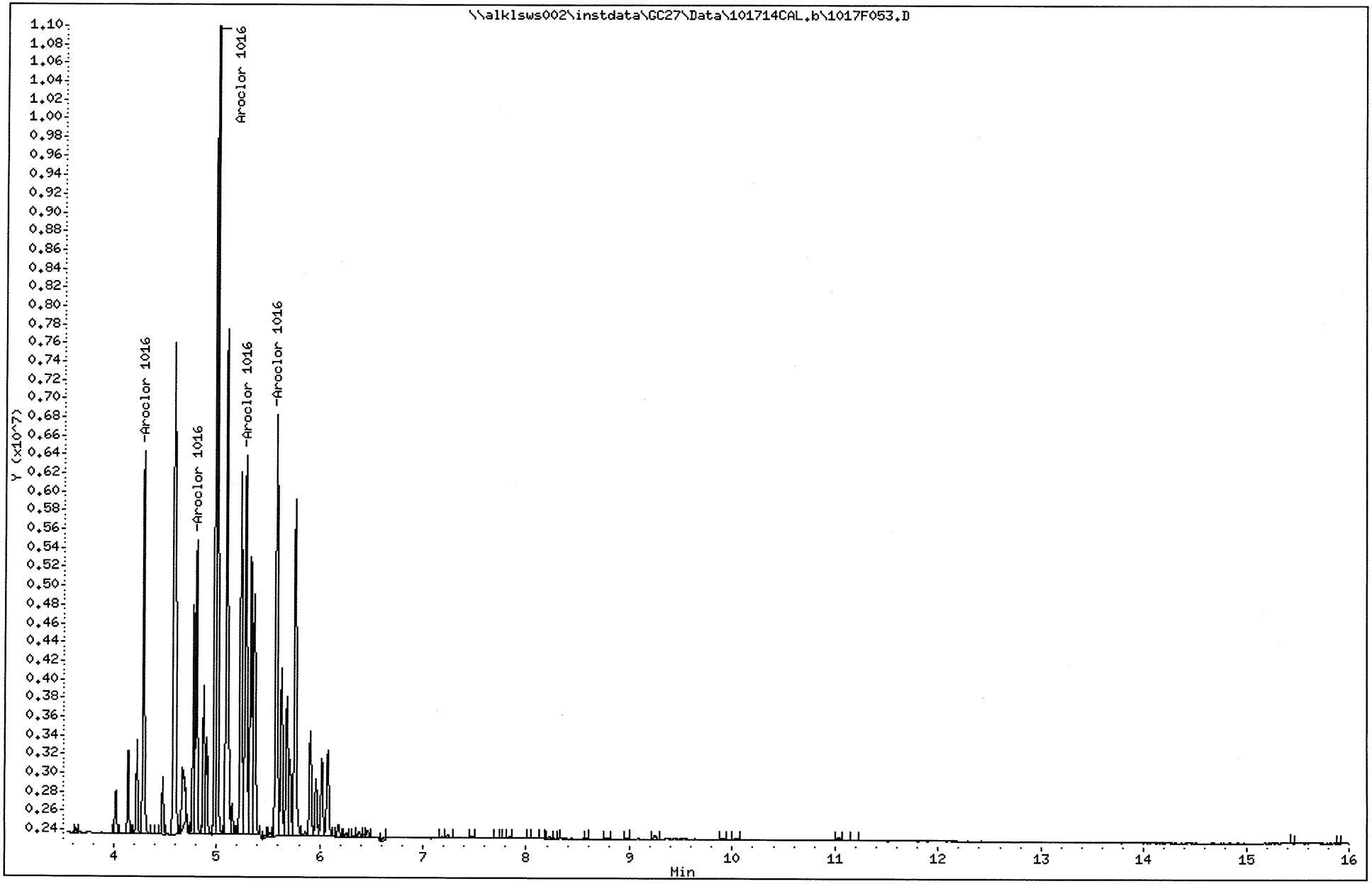
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



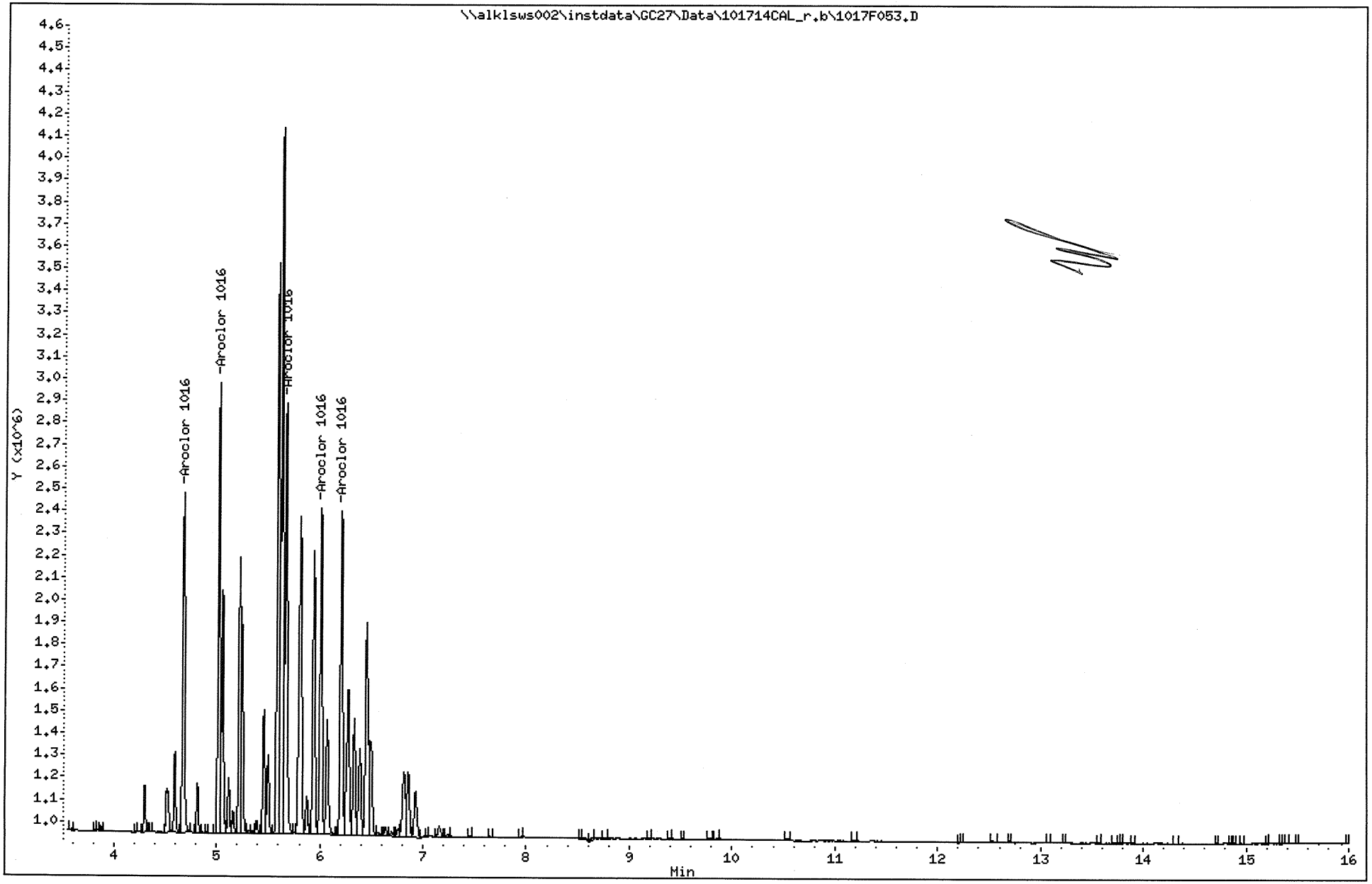
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

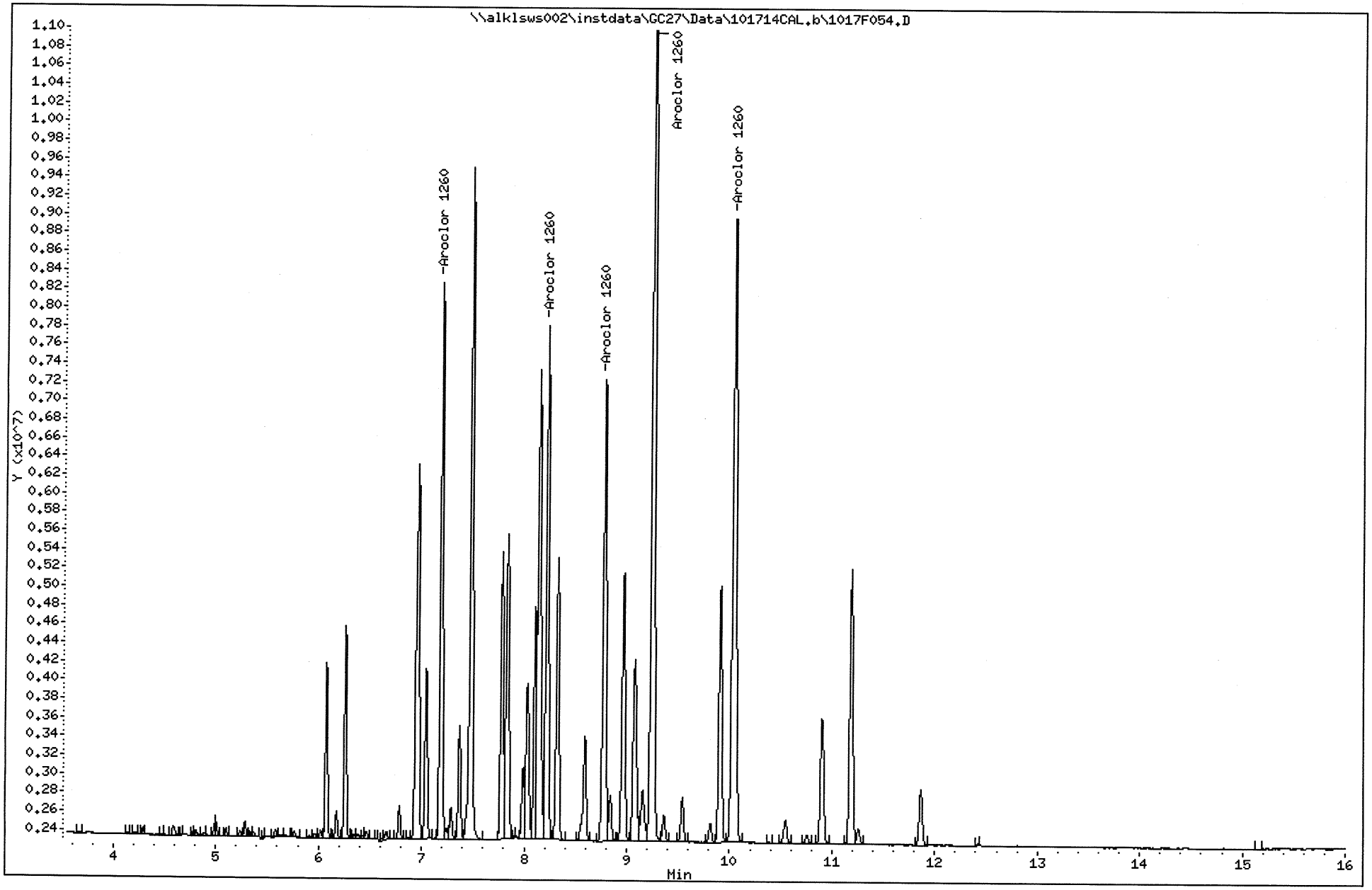
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



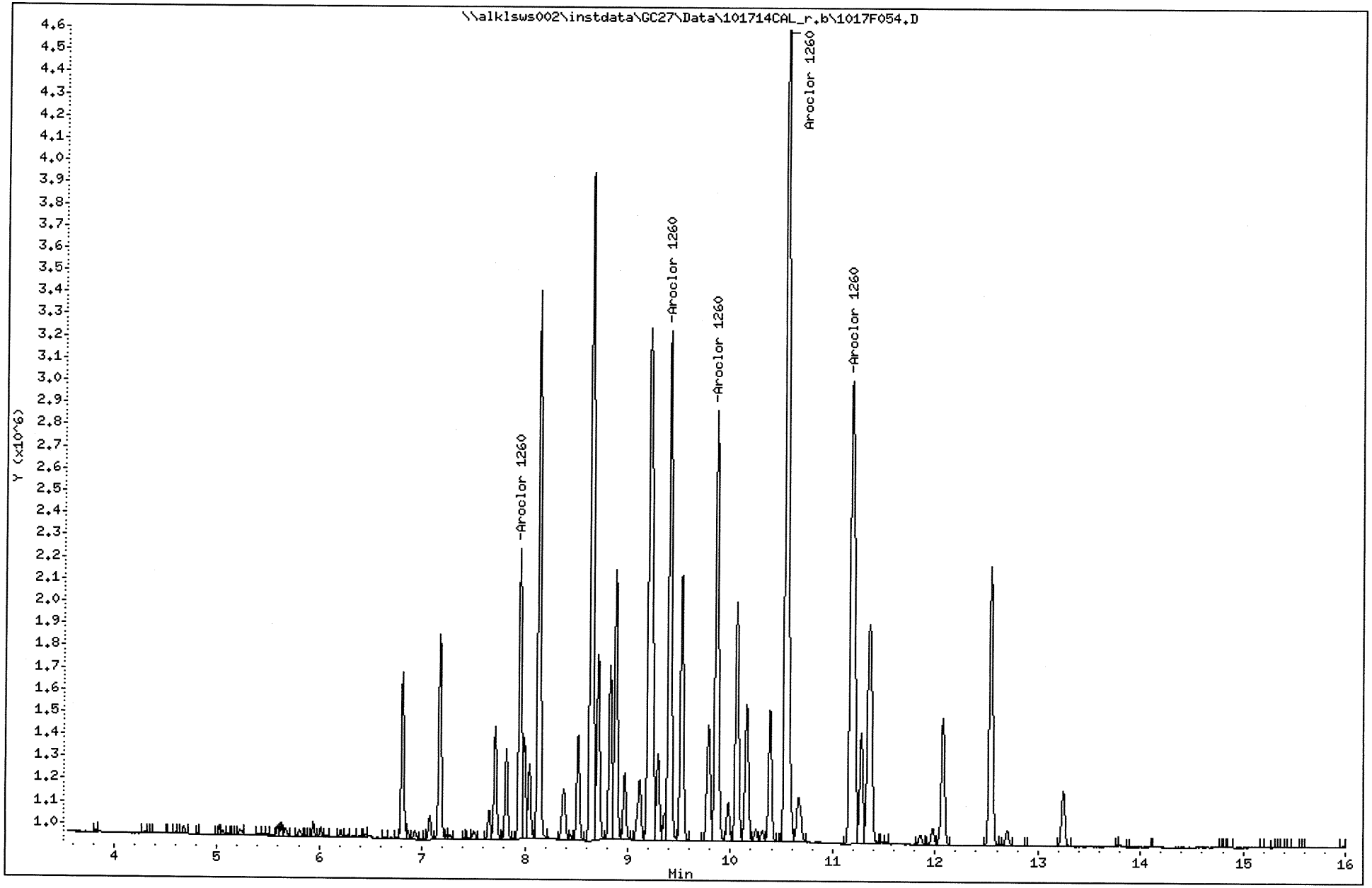
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Preparation Information

Group ID:	KWG1508618	**Prep Method:**	EPA 3541	**Prep Date:**	09/09/15 11:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509364-001	UBPE-1	8082A PCB LL	SOIL	40.148g	4ml	
K1509528-001	HR006	8082A PCB LL	SOIL	30.0520g	4ml	
K1509528-002	HR007	8082A PCB LL	SOIL	30.0767g	4ml	
K1509528-003	HR008	8082A PCB LL	SOIL	30.0844g	4ml	
K1509528-004	HR009	8082A PCB LL	SOIL	30.0026g	4ml	
K1509528-005	HR010	8082A PCB LL	SOIL	30.0739g	4ml	
K1509528-006	HR011	8082A PCB LL	SOIL	30.0244g	4ml	
K1509528-007	HR012	8082A PCB LL	SOIL	30.0776g	4ml	
K1509667-001	NAPE - 3	8082A PCB LL	SOIL	40.080g	4ml	
K1509667-002	NAPE - 2	8082A PCB LL	SOIL	40.053g	4ml	
K1509732-001	NAPE-1	8082A PCB LL	SOIL	40.324g	4ml	
KWG1508618-1	Matrix Spike	8082A PCB LL	SOIL	30.0686g	4ml	
KWG1508618-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	30.1926g	4ml	
KWG1508618-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508618-4	Method Blank	8082A PCB LL	SOIL	40.324g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508618-1	K1509528-006	
KWG1508618-2	K1509528-006	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509364-001	1465227					LMuresan
K1509528-001	1465228					LMuresan
K1509528-002	1465229					LMuresan
K1509528-003	1465230					LMuresan
K1509528-004	1465231					LMuresan
K1509528-005	1465232					LMuresan
K1509528-006	1465233					LMuresan
K1509528-007	1465223					LMuresan
K1509667-001	1465224					LMuresan
K1509667-002	1465225					LMuresan
K1509732-001	1465226					LMuresan
KWG1508618-1	1465234					LMuresan
KWG1508618-2	1465235					LMuresan
KWG1508618-3	1465236					LMuresan
KWG1508618-4	1465237					LMuresan

Comments:

					Training
Started By:	LLee	Assisted By:			Yes No
Completed By:	KMiller	Assisted By:			Yes No
Reviewed By:	Elissa Bruno	Date:	9-15-15	Storage:	

Chain of Custody

Relinquished By:		Date:	9-11-15	Extracts Examined
Received By:	MR for SM	Date:	09/15/15	Yes No

Preparation Information

Group ID: KWG1508618 **Prep Method:** EPA 3541 **Prep Date:** 09/09/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. µL	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1509364-001	UBPE-1 S	-	-	8082A PCB LL	SOIL	40.148	NA	10	4	200	—
2	K1509528-001	HR006	-	-	8082A PCB LL	SOIL	30.0520		10	4		—
3	K1509528-002	HR007	-	-	8082A PCB LL	SOIL	30.0767		10	4		—
4	K1509528-003	HR008	-	-	8082A PCB LL	SOIL	30.0844		10	4		—
5	K1509528-004	HR009	-	-	8082A PCB LL	SOIL	30.0026		10	4		—
6	K1509528-005	HR010	-	-	8082A PCB LL	SOIL	30.0739		10	4		—
7	K1509528-006	HR011	-	-	8082A PCB LL	SOIL	30.0244		10	4		—
8	K1509528-007	HR012	-	-	8082A PCB LL	SOIL	30.0776		10	4		—
9	K1509667-001	NAPE - 3 S, R	01	√	8082A PCB LL	SOIL	40.080		10	4		—
10	K1509667-002	NAPE - 2 S, R	01	√	8082A PCB LL	SOIL	40.053		10	4		—
11	K1509732-001	NAPE-1 O	01	√	8082A PCB LL	SOIL	40.324		10	4		—
12	KWG1508618-1	Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.0686		10	4		100
13	KWG1508618-2	Duplicate Matrix Spike 9528-6	-	-	8082A PCB LL	SOIL	30.1926		10	4		
14	KWG1508618-3	Lab Control Sample	-	-	8082A PCB LL	SOIL	20.000		10	4		
15	KWG1508618-4	Method Blank	-	-	8082A PCB LL	SOIL	40.324		10	4		—

Comments: S: sand, R: rocks, O: organics prep lot# 2444179

Surrogate ID: PCB6-75E, 2ppm, XP 2/11/16, 200 µl, EPP 10D
Spike ID: PCB6-75E, 40 ppm, XP 12/29/15, 100 µl, EPP2A
Witness: RM, 9/9/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1509364, 9528, 9667, 9752 **Work Group # Pest:** —
PCB: KWG1508618

Weighed (time/date/initial): 1030 9/9/15 LL Balance ID: *K-Bal-* 5 Calibration Verified ☑

Storage Location (if not extracted same day): NA

DCM Lot # DN111 Sulfate Lot # K2S9001 Matrix Lot # 061614 Glass Wool Lot # 5071901

Soxtherm Start (time/date/initial): 1100 9/9/15 LL

Soxtherm Stop (time/date/initial): 1510 9/9/15 LM

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 8:15 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 9:30 9-10-15 K Hexane Lot# 101242
S-Evap (time/date/initial): — S-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 9:30 9-10-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:30 9-11-15 K Acid Lot # 54344

Other Clean-up: 3660B 9-11-15 K ☑ all samples ☐ some samples: Lot EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Goofy B1-C5

Archived Extract Storage: Nulley

Additional Comments:

Bench Sheet Review Check List

- ☑ Hold times met (if no, reason: _____)
- ☑ Prep date, time, method, department, product code correct in stealth
- ☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☑ Weights/Volumes and units correct on raw and final bench sheets
- ☑ Sample IDs have been checked - bottle numbers appended if required
- ☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
- ☑ Extract storage recorded
- ☑ Additional prep sheet completely filled out (NA or line out blanks)
- ☑ All clean-ups have been noted on additional prep sheet
- ☑ Signed service request with Form V, if applicable, has been attached

ALS Environmental
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October 02, 2015

Analytical Report for Service Request No: K1510324

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Riverbank SCM

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 17, 2015
For your reference, these analyses have been assigned our service request number **K1510324.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janet Mallach

for
Gregory Salata, Ph.D.
Client Services
Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1510324
Project:	Evraz Riverbank SCM	**Date Received:**	09/17/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 09/17/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

Sample Notes and Discussion:
Three Aroclors were identified in UBPE-3: Aroclor 1248, Aroclor 1254, and Aroclor 1260. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Aroclor 1260 was identified based on the presence of late eluting PCB peaks in the chromatogram. The remainder of the PCB pattern was identified as Aroclor 1254 because PCB peak height in the middle of the chromatogram was larger than could be attributed to Aroclor 1242, Aroclor 1248, or Aroclor 1260.

When Aroclor mixtures are present in a sample, care is taken to minimize the possibility of double-counting PCBs. Analytical peaks are selected based on the best resolution possible for that particular sample. However, when a mixture Aroclors are present in a sample, the potential exists for a high bias from contribution of one Aroclor to another due to common peaks or peaks that cannot be completely resolved.

No other anomalies associated with the analysis of this sample were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

CHAIN OF CUSTODY FORM

K1510324

integral consulting inc.

Project: Evraz Riverbank SCM

Samplers: JSUND

Integral Contact: Glenn Esler
Phone 503943 3617

Ship to: Lab Name ALS
Address 13175 13th Ave
Kelso, WA
98626
Contact Gwen Salata
Phone 360-501-3376

ANALYSES REQUESTED

Sample No.	Tag #	Date	Time	Matrix	PCB Aroclors								Extra Container	Archive	Comments
UBPF-3	2010	9/16/15	1635	SL	X										

9/16/15

Analysis Turn Time: Normal Rush Rush Results Needed By:

Shipped by: ALS Courier Shipping Tracking No.

Condition of Samples Upon Receipt: Custody Seal Intact?

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: (signature) Date/Time: 9/17/15 0701 **Received by:** (signature) Date/Time: 9/17/15 1515

Relinquished by: (signature) Date/Time: _____ **Received by:** (signature) Date/Time: _____

Special Instructions:

Follow instructions in project QAPP. Call G. Esler with questions.

PC Gray

Cooler Receipt and Preservation Form

Client / Project: Integral Energy Service Request K15 10324

Received: 9/17/15 Opened: 9/17/15 By: [illegible] Unloaded: 9/17/15 By: [illegible]

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? one, front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.5	-0.4	0.7	0.8	+0.1	356			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Collected:**	09/16/15
Sample Matrix:	Soil	**Date Received:**	09/17/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
UBPE-3	K1510324-001	**76.9**	-	-	1	09/23/15 15:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project	Evraz Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1510057-001DUP	-	-	84.6	84.7	84.7	<1	20	09/23/15
Batch QC	K1510421-001DUP	-	-	73.6	73.5	73.6	<1	20	09/23/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
UBPE-3	K1510324-001	09/16/2015	09/17/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Collected:**	09/16/2015
Sample Matrix:	Soil	**Date Received:**	09/17/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	UBPE-3	**Units:**	ug/Kg
Lab Code:	K1510324-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1221	ND	U	13	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1232	ND	U	6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1242	ND	U	6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1248	**21**		6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1254	**19**		6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1260	**7.1**		6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1262	ND	U	6.5	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1268	ND	U	6.5	2.1	1	09/24/15	09/30/15	KWG1509174	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	43-148	09/30/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1509174-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1221	ND	U	10	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1232	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1242	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1248	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1254	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1260	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1262	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	
Aroclor 1268	ND	U	5.0	2.1	1	09/24/15	09/30/15	KWG1509174	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	82	43-148	09/30/15	Acceptable

Comments:

QA/QC Report

Client: Integral Consulting, Incorporated
Service Request: K1510324
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Units: Percent
Analysis Method: 8082A
Level: Low

Sample Name	Lab Code	Sur1
UBPE-3	K1510324-001	77
Batch QC	K1510507-001	75 D
Method Blank	KWG1509174-4	82
Batch QCMS	KWG1509174-1	84
Batch QCDMS	KWG1509174-2	71
Lab Control Sample	KWG1509174-3	70

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1510507-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

		Batch QCMS KWG1509174-1 Matrix Spike			Batch QCDMS KWG1509174-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	141	105	134	141	105	133	23-145	0	40
Aroclor 1260	180	239	105	54	237	105	52	24-148	1	40

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1509174

	Lab Control Sample KWG1509174-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	114	200	57	42-122
Aroclor 1260	140	200	70	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015
		Time Analyzed:	10:03

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1509174-4	**File ID:**	J:\GC27\DATA\093015.B\0930F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1509174-3	J:\GC27\DATA\093015.B\0930F005.D	09/30/15	09:40
UBPE-3	K1510324-001	J:\GC27\DATA\093015.B\0930F007.D	09/30/15	10:27
Batch QCMS	KWG1509174-1	J:\GC27\DATA\093015.B\0930F012.D	09/30/15	12:26
Batch QCDMS	KWG1509174-2	J:\GC27\DATA\093015.B\0930F013.D	09/30/15	12:50
Batch QC	K1510507-001	J:\GC27\DATA\100115.B\1001F006.D	10/01/15	11:22

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QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/24/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/30/2015
		Time Analyzed:	09:40

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1509174-3	**File ID:**	J:\GC27\DATA\093015.B\0930F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1509174

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1509174-4	J:\GC27\DATA\093015.B\0930F006.D	09/30/15	10:03
UBPE-3	K1510324-001	J:\GC27\DATA\093015.B\0930F007.D	09/30/15	10:27
Batch QCMS	KWG1509174-1	J:\GC27\DATA\093015.B\0930F012.D	09/30/15	12:26
Batch QCDMS	KWG1509174-2	J:\GC27\DATA\093015.B\0930F013.D	09/30/15	12:50
Batch QC	K1510507-001	J:\GC27\DATA\100115.B\1001F006.D	10/01/15	11:22

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Service Request: K1510324
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Calibration Date:**	10/18/2014
		Date Analyzed:	10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type:	External Standard	**Calibration ID:**	CAL13624
Analysis Method:	8082A	**Units:**	ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Service Request: K1510324
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-XLB

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Service Request: K1510324
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A
Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL
File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F003.D
Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	55	158000	175000	10	NA	± 20	AverageRF
Aroclor 1016 {1}	500	500	3590	3570	-1	NA	± 100	AverageRF
Aroclor 1016 {2}	500	500	3000	2990	0	NA	± 100	AverageRF
Aroclor 1016 {3}	500	480	9890	9440	-5	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4600	-7	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4720	-9	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	480	9850	9380	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8410	4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	520	8230	8520	4	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19500	4	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	86100	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	1840	1750	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	2430	2280	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2660	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1980	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1920	-11	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	490	2210	2160	-2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3870	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3710	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8880	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5870	5	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F014.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	163000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	3590	3410	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	3000	2720	-9	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	9890	8270	-16	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	4960	4280	-14	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	5180	4480	-14	NA	± 100	AverageRF
Aroclor 1016	500	440	NA	NA	NA	-12	± 20	NA
Aroclor 1260 {1}	500	450	9850	8900	-10	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7750	-5	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7790	-5	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	18200	-3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	14200	15000	6	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 09/30/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509500
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F014.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	82400	84200	2	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	1840	1690	-8	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	2430	2270	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	3000	2610	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1960	-11	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1930	-10	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	480	2210	2100	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	3780	3780	0	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	3610	3600	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	8630	8670	0	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5770	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	0	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	55	158000	174000	10	NA	± 20	AverageRF
Aroclor 1016 {1}	500	520	3590	3730	4	NA	± 100	AverageRF
Aroclor 1016 {2}	500	490	3000	2910	-3	NA	± 100	AverageRF
Aroclor 1016 {3}	500	460	9890	9130	-8	NA	± 100	AverageRF
Aroclor 1016 {4}	500	460	4960	4580	-8	NA	± 100	AverageRF
Aroclor 1016 {5}	500	460	5180	4800	-7	NA	± 100	AverageRF
Aroclor 1016	500	480	NA	NA	NA	-4	± 20	NA
Aroclor 1260 {1}	500	480	9850	9360	-5	NA	± 100	AverageRF
Aroclor 1260 {2}	500	520	8110	8360	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	8230	8470	3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	520	18800	19400	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	540	14200	15300	8	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	86100	5	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	1840	1750	-5	NA	± 100	AverageRF
Aroclor 1016 {2}	500	460	2430	2240	-8	NA	± 100	AverageRF
Aroclor 1016 {3}	500	440	3000	2620	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1970	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1930	-10	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	490	2210	2160	-2	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3890	3	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3690	2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8890	3	NA	± 100	AverageRF
Aroclor 1260 {5}	500	530	5590	5870	5	NA	± 100	AverageRF
Aroclor 1260	500	510	NA	NA	NA	2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F007.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	54	158000	170000	8	NA	± 20	AverageRF
Aroclor 1016 {1}	500	480	3590	3480	-3	NA	± 100	AverageRF
Aroclor 1016 {2}	500	470	3000	2810	-6	NA	± 100	AverageRF
Aroclor 1016 {3}	500	450	9890	8820	-11	NA	± 100	AverageRF
Aroclor 1016 {4}	500	440	4960	4380	-12	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	5180	4610	-11	NA	± 100	AverageRF
Aroclor 1016	500	460	NA	NA	NA	-9	± 20	NA
Aroclor 1260 {1}	500	460	9850	9040	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	500	8110	8060	-1	NA	± 100	AverageRF
Aroclor 1260 {3}	500	500	8230	8240	0	NA	± 100	AverageRF
Aroclor 1260 {4}	500	500	18800	18900	1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	14200	14800	4	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	-1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510324
Date Analyzed: 10/01/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509486
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F007.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	52	82400	85400	4	NA	± 20	AverageRF
Aroclor 1016 {1}	500	470	1840	1710	-7	NA	± 100	AverageRF
Aroclor 1016 {2}	500	460	2430	2260	-7	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	3000	2600	-13	NA	± 100	AverageRF
Aroclor 1016 {4}	500	450	2200	1970	-10	NA	± 100	AverageRF
Aroclor 1016 {5}	500	450	2160	1920	-11	NA	± 100	AverageRF
Aroclor 1016	500	450	NA	NA	NA	-10	± 20	NA
Aroclor 1260 {1}	500	480	2210	2110	-4	NA	± 100	AverageRF
Aroclor 1260 {2}	500	510	3780	3850	2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	510	3610	3660	2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	510	8630	8780	2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	520	5590	5760	3	NA	± 100	AverageRF
Aroclor 1260	500	500	NA	NA	NA	1	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1509486
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
1001F003.D	Continuing Calibration Verification	KWG1509486-2	10/1/2015	10:10		10/1/2015	10:10
1001F004.D	Instrument Blank	KWG1509486-1	10/1/2015	10:34		10/1/2015	10:34
1001F005.D	ZZZZZZ	ZZZZZZ	10/1/2015	10:58		10/1/2015	10:58
1001F006.D	Batch QC	K1510507-001	10/1/2015	11:22		10/1/2015	11:22
1001F007.D	Continuing Calibration Verification	KWG1509486-4	10/1/2015	11:45		10/1/2015	11:45
1001F008.D	Instrument Blank	KWG1509486-3	10/1/2015	12:09		10/1/2015	12:09
1001F011.D	ZZZZZZ	ZZZZZZ	10/1/2015	15:45		10/1/2015	15:45
1001F012.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:09		10/1/2015	16:09
1001F013.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:33		10/1/2015	16:33
1001F014.D	ZZZZZZ	ZZZZZZ	10/1/2015	16:56		10/1/2015	16:56
1001F015.D	ZZZZZZ	ZZZZZZ	10/1/2015	17:20		10/1/2015	17:20
1001F016.D	Continuing Calibration Verification	KWG1509486-6	10/1/2015	17:44		10/1/2015	17:44

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1510324
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A

Analysis Lot: KWG1509500
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0930F003.D	Continuing Calibration Verification	KWG1509500-2	9/30/2015	08:52		9/30/2015	08:52
0930F004.D	Instrument Blank	KWG1509500-1	9/30/2015	09:16		9/30/2015	09:16
0930F005.D	Lab Control Sample	KWG1509174-3	9/30/2015	09:40		9/30/2015	09:40
0930F006.D	Method Blank	KWG1509174-4	9/30/2015	10:03		9/30/2015	10:03
0930F007.D	UBPE-3	K1510324-001	9/30/2015	10:27		9/30/2015	10:27
0930F008.D	ZZZZZZ	ZZZZZZ	9/30/2015	10:51		9/30/2015	10:51
0930F012.D	Batch QCMS	KWG1509174-1	9/30/2015	12:26		9/30/2015	12:26
0930F013.D	Batch QCDMS	KWG1509174-2	9/30/2015	12:50		9/30/2015	12:50
0930F014.D	Continuing Calibration Verification	KWG1509500-4	9/30/2015	13:13		9/30/2015	13:13
0930F015.D	Instrument Blank	KWG1509500-3	9/30/2015	13:37		9/30/2015	13:37

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Service Request: K1510324
Date Extracted: 09/24/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1509174
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
UBPE-3	K1510324-001	09/16/15	09/17/15	40.215g	4ml	76.9	
Method Blank	KWG1509174-4	NA	NA	40.215g	4ml	NA	
Batch QC	K1510507-001	NA	NA	40.108g	4ml	94.6	
Batch QCMS	KWG1509174-1	NA	NA	40.145g	4ml	94.6	
Batch QCDMS	KWG1509174-2	NA	NA	40.138g	4ml	94.6	
Lab Control Sample	KWG1509174-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510324
Project:	Evraz Riverbank SCM	**Date Collected:**	09/16/2015
Sample Matrix:	Soil	**Date Received:**	09/17/2015
		Date Extracted:	09/24/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	UBPE-3	**Units:**	ug/Kg
Lab Code:	K1510324-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	6.5	2.1	21	24	13.3		1	09/30/15
Aroclor 1254	6.5	2.1	19	22	14.6		1	09/30/15
Aroclor 1260	6.5	2.1	7.1	8.1	13.2		1	09/30/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1510057, KQ1510687, K1510324, K1510421**	**Run #:**	**463656**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1510057-001	1.31	10.36	10.07	8.76	84.6	
	K1510057-001DUP	1.28	10.21	9.93	8.65	84.7	<1
	K1510324-001	1.30	10.38	9.28	7.98	76.9	
	K1510421-001	1.30	11.04	9.42	8.12	73.6	
	K1510421-001DUP	1.30	15.90	12.99	11.7	73.5	<1
	K1510421-002	1.32	13.18	10.71	9.39	71.2	
	K1510421-003	1.30	14.89	10.43	9.13	61.3	
	K1510421-004	1.30	12.41	8.64	7.34	59.1	
	K1510421-005	1.30	11.49	5.26	3.96	34.5	
	K1510421-006	1.28	10.92	5.82	4.54	41.6	
	K1510421-007	1.30	15.55	7.98	6.68	43.0	
	K1510421-008	1.29	10.49	5.67	4.38	41.8	
	K1510421-009	1.31	12.35	11.02	9.71	78.6	
	K1510421-010	1.30	15.03	11.64	10.3	68.8	
	K1510421-011	1.29	11.17	9.07	7.78	69.7	
	K1510421-011DUP	1.30	10.68	10.88	9.58	89.7	25
	K1510421-012	1.29	15.59	13.70	12.4	79.6	
	K1510421-013	1.30	14.22	7.23	5.93	41.7	
	K1510421-014	1.31	16.69	7.45	6.14	36.8	
	K1510421-015	1.31	18.64	9.53	8.22	44.1	

See reanalysis

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	09/23/15	15:54	09/24/15	08:02	9/25/15

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	0.99, 100.00	1.00, 100.00	09/23/15	15:13	09/23/15	15:54
Calibration2	K-Balance-16	1.00, 100.00	1.00, 99.99	09/24/15	08:30	09/24/15	08:35

Comments: DJM 9/25/15

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F007.D
Lab ID: K1510324-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/30/2015 10:27
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:43
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F007.D
Lab ID: K1510324-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/30/2015 10:27
Date Quantitated: 10/02/2015 10:29
Batch ID: KWG1509500
Analysis Method: 8082A
ListJoinID: LJ15181

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:46
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F007.D			**Vial:**	3
Acqu Date:	09/30/2015 10:27	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510324-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/16/2015	**Receive Date:**	09/17/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	K1510324
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469492	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Decachlorobiphenyl	12.26 +0.01	13.62	12105064	5998452	76.55	72.84			77	OK
				%Recovery =	77 OK	73 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F007.D			**Vial:**	3
Acqu Date:	09/30/2015 10:27	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510324-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {1}	4.94	4.95	564335	15030	120.45	12.06	16	2.1U	
Aroclor 1248			0	0	187.36	159.60	24	21	**21**
Aroclor 1248 {2}	5.29	5.55	809899	321470	185.72	124.65	24	16	
Aroclor 1248 {3}	5.68	5.92	1461010	577323	227.39	194.13	29	25	
Aroclor 1248 {4}	5.87	6.35	994016	518481	202.44	216.13	26	28	
Aroclor 1248 {5}	6.28	7.05	930013	1071124	200.83	251.02	26	32	
Aroclor 1254 {1}	6.25	6.72	664874	812347	170.90	221.06	22	29	
Aroclor 1254			0	0	144.90	170.73	19	22	**19**
Aroclor 1254 {2}	6.68	7.05	1011132	1071124	139.32	184.89	18	24	
Aroclor 1254 {3}	6.83	7.16	1908407	314713	130.40	162.46	17	21	
Aroclor 1254 {4}	7.17	8.01	1187719	287162	124.17	126.75	16	16	
Aroclor 1254 {5}	7.78	8.76	1011263	497212	159.72	158.46	21	20	
Aroclor 1260 {1}	7.08 +0.01	7.83	742097	109447	75.34	49.62	9.7	6.4J	
Aroclor 1260			0	0	62.54	54.65	8.1	7.1	**7.1**
Aroclor 1260 {2}	8.09 +0.00	9.27	492080	228536	60.65	60.46	7.8	7.8	
Aroclor 1260 {3}	8.64 +0.01	9.72	463252	191617	56.28	53.10	7.3	6.9	
Aroclor 1260 {4}	9.11 +0.00	10.39	1110858	467832	59.09	54.18	7.6	7.0	
Aroclor 1260 {5}	9.89 +0.01	11.03	870602	312058	61.37	55.87	7.9	7.2	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.215 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	76.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F007.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F007.D
Inj Date : 30-SEP-2015 10:27
Sample Info: K1510324-001
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	13353299	5174929	75.4	65.8		100.00
Aroclor 1248	4.935	4.952	564335	15030	120	12.1	80.00- 120.00	100.00
	5.288	5.548	809899	321470	186	125	17.18- 25.77	143.51
	5.675	5.918	1461010	577323	227	194	19.47- 29.21	258.89
	5.872	6.352	994016	518481	202	216	3.05- 4.58	176.14
	6.282	7.052	930013	1071124	201	251	0.69- 1.04	164.80
		Average of Peak Amounts =			187	160		
Aroclor 1254	6.245	6.715	664874	812347	171	221	80.00- 120.00	100.00
	6.678	7.052	1011132	1071124	139	185	1017.66-1526.49	152.08
	6.832	7.155	1908407	314713	130	162	9646.23-14469.35	287.03
	7.172	8.008	1187719	287162	124	127	1126.72-1690.08	178.64
	7.778	8.762	1011263	497212	160	158	281.12- 421.67	152.10
		Average of Peak Amounts =			145	171		
Aroclor 1260	7.075	7.828	742097	109447	75.3	49.6	80.00- 120.00	100.00
	8.088	9.265	492080	228536	60.6	60.5	69.66- 104.50	66.31
	8.642	9.715	463252	191617	56.3	53.1	70.04- 105.07	62.42
	9.105	10.392	1110858	467832	59.1	54.2	163.82- 245.72	149.69
	9.892	11.028	870602	312058	61.4	55.9	134.64- 201.96	117.32
		Average of Peak Amounts =			62.5	54.7		
Decachlorobiphenyl	12.258	13.618	12105064	5998452	76.5	72.8		100.00
Aroclors, Total	0.000	0.000	2844311	1359095	395	385		0.00

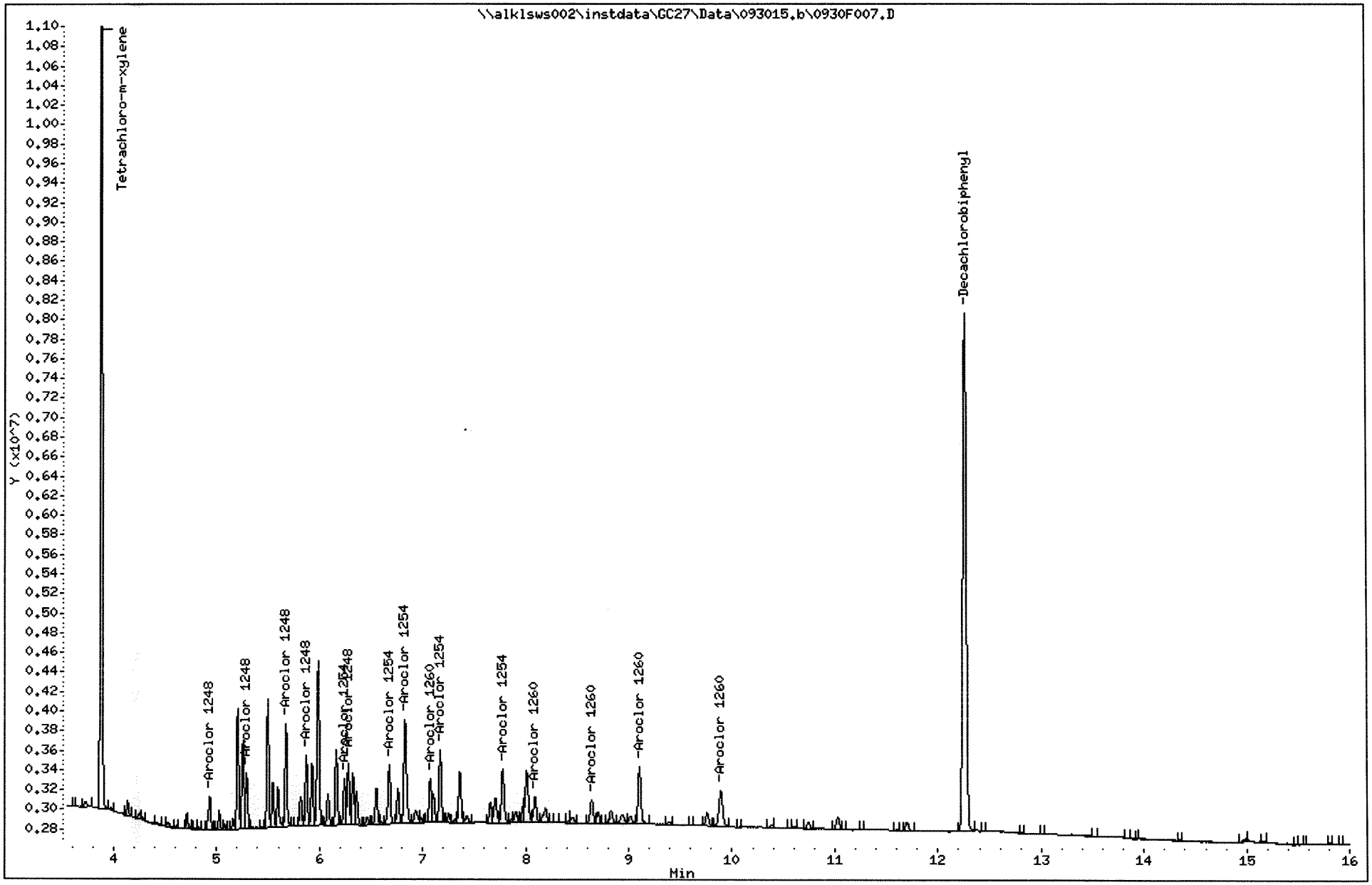
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F007.D
Date : 30-SEP-2015 10:27
Client ID:
Sample Info: K1510324-001

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

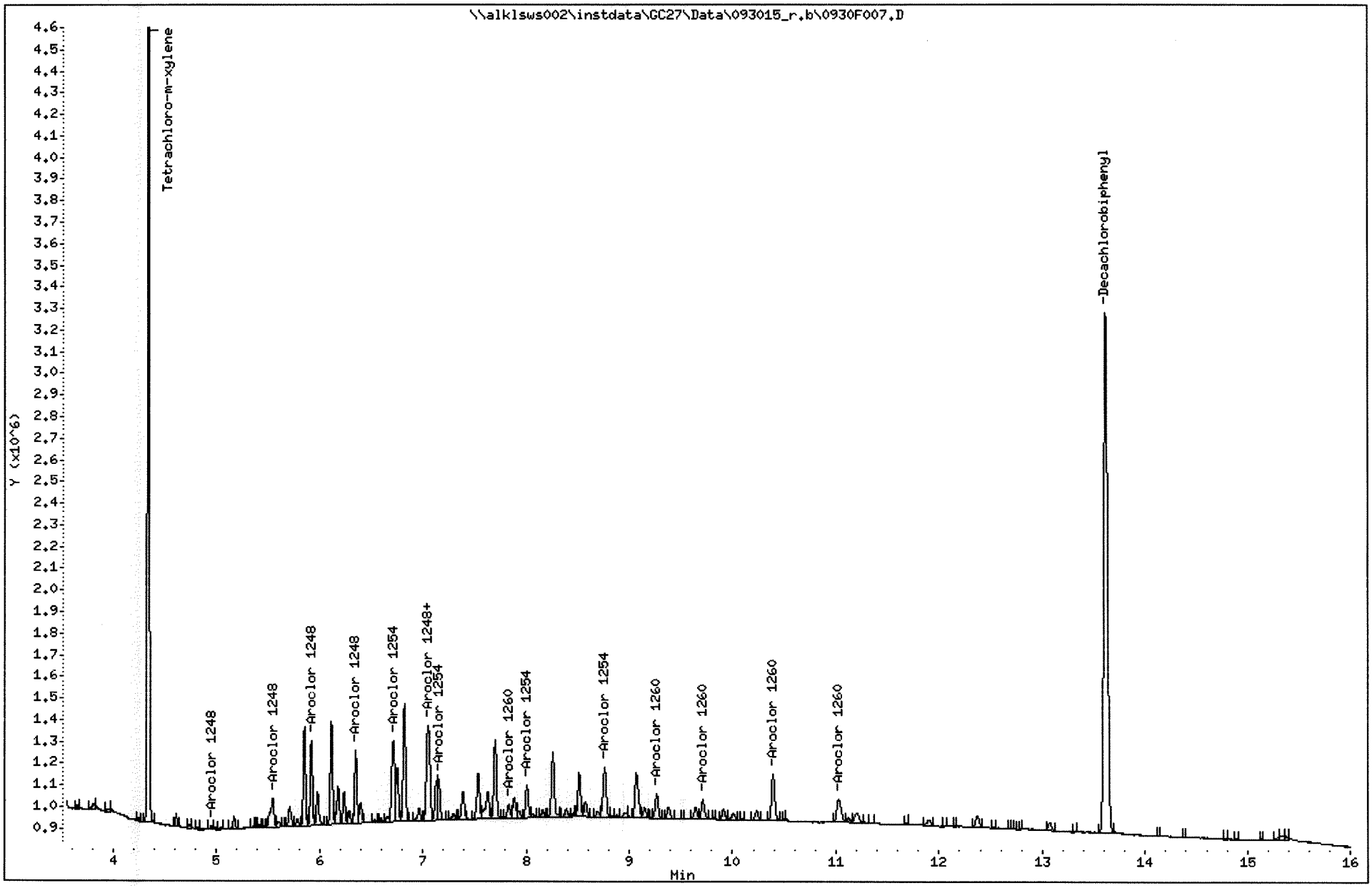


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F007.D
Date : 30-SEP-2015 10:27
Client ID:
Sample Info: K1510324-001

Column phase: DB-XLB

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F006.D
Lab ID: KWG1509174-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/30/2015 10:03
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F006.D
Lab ID: KWG1509174-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/30/2015 10:03
Date Quantitated: 10/02/2015 10:29
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:40
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469500	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	14252666	5805295	80.51	73.81			81	OK
					%Recovery =	81 OK	74 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	13039460	6477400	82.46	78.66			82	OK
					%Recovery =	82 OK	79 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.215 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D			**Vial:**	2
Acqu Date:	09/30/2015 10:03	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D
Inj Date : 30-SEP-2015 10:03
Sample Info: KWG1509174-4 MB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	14252666	5805295	80.5	73.8		100.00
Decachlorobiphenyl	12.257	13.617	13039460	6477400	82.5	78.7		100.00

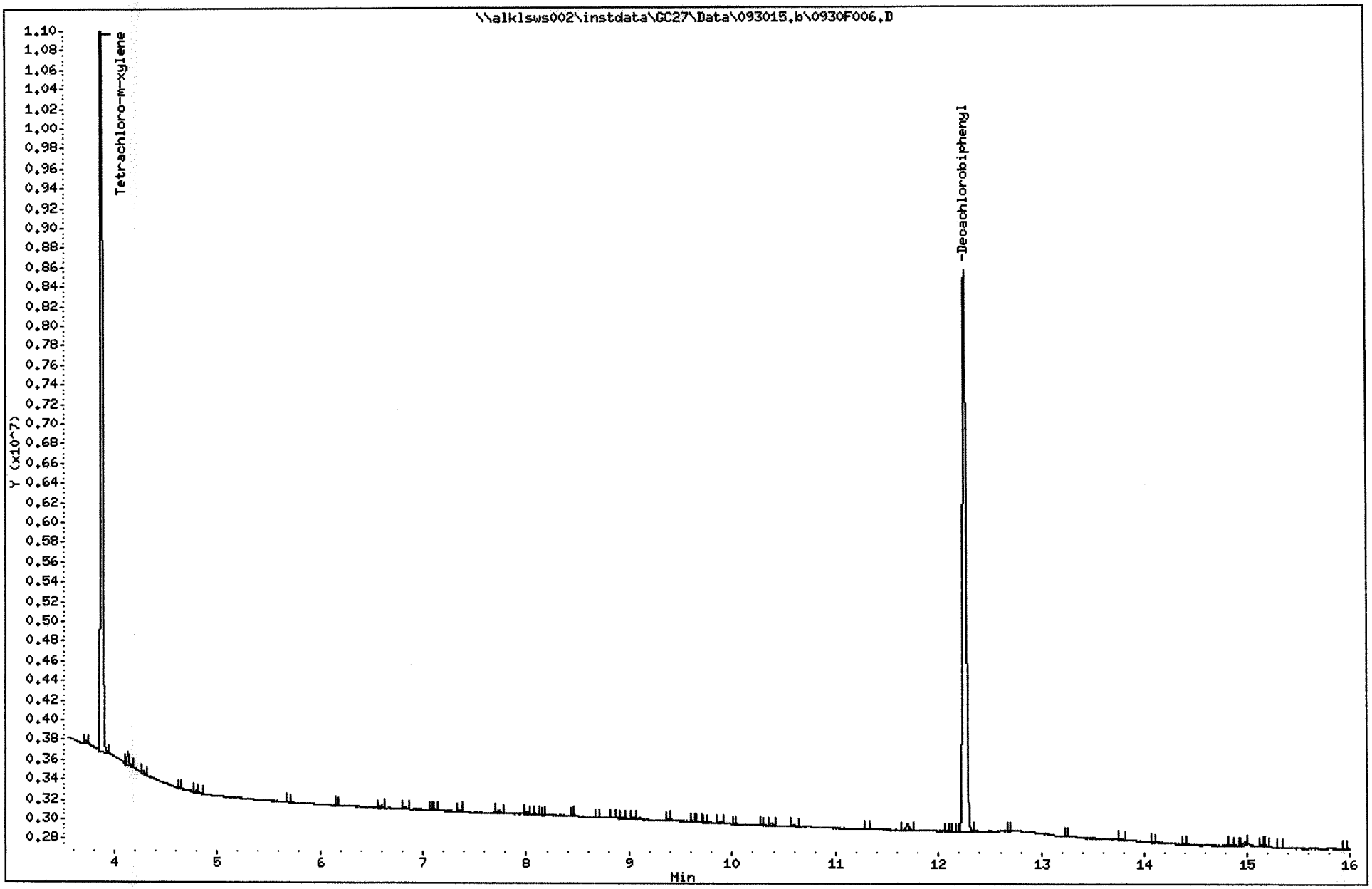
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F006.D
Date : 30-SEP-2015 10:03
Client ID:
Sample Info: KWG1509174-4 MB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

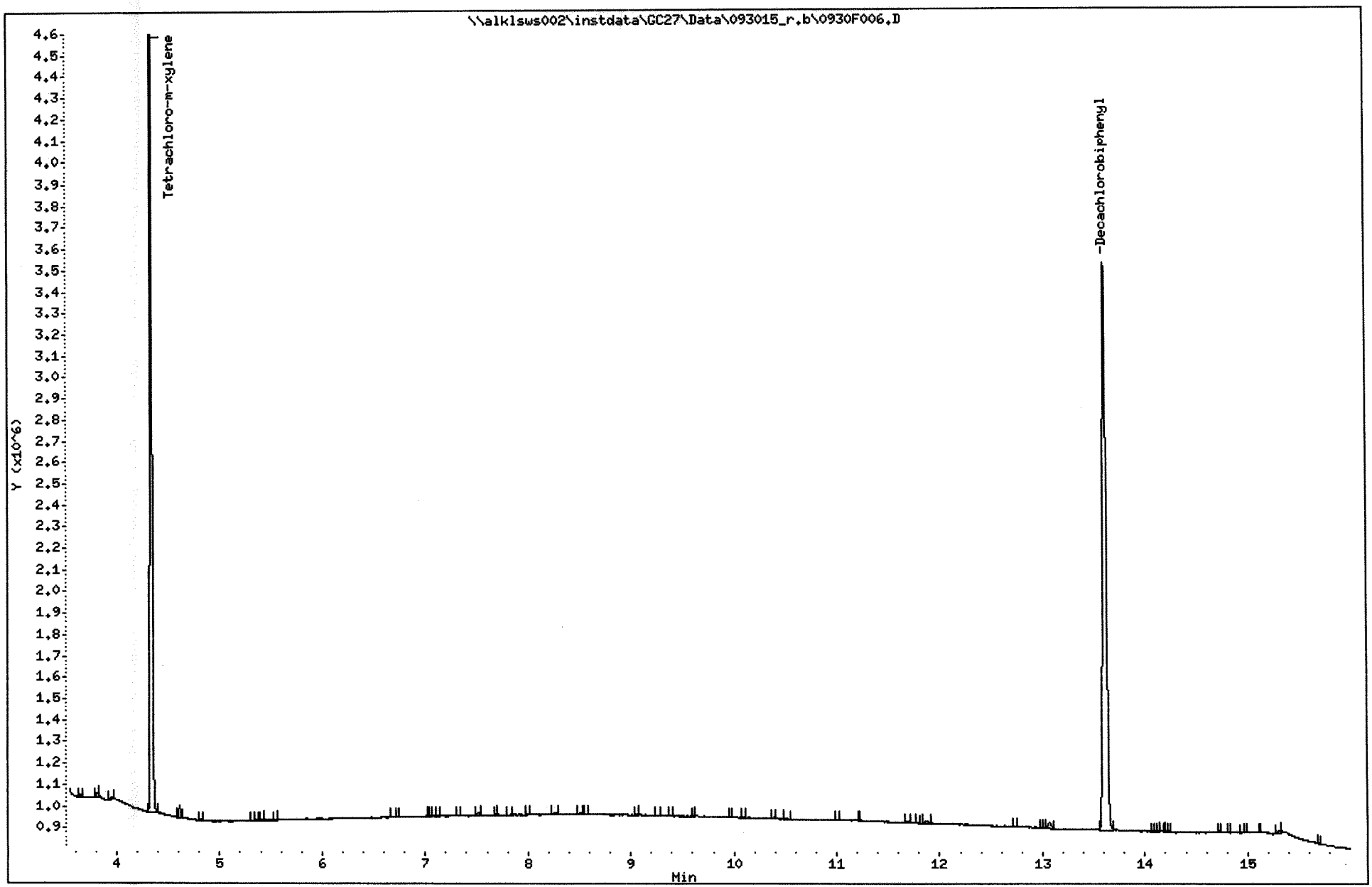


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F006.D
Date : 30-SEP-2015 10:03
Client ID:
Sample Info: KWG1509174-4 MB

Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

Column phase: DB-XLB



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F006.D	**Date Acquired:**	10/01/2015 11:22
Lab ID:	K1510507-001	**Date Quantitated:**	10/01/2015 18:22
RunType:	SMPL	**Batch ID:**	KWG1509486
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:24
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F006.D	**Date Acquired:**	10/01/2015 11:22
Lab ID:	K1510507-001	**Date Quantitated:**	10/01/2015 18:21
RunType:	SMPL	**Batch ID:**	KWG1509486
Matrix:	SOIL	**Analysis Method:**	8082A
		ListJoinID:	LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA		x
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	
Above Highest ICAL Level	Aroclor 1248 {5}	2343.17	NA	2000	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:27
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/16/2015	**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509486	**Prep Lot:**	KWG1509174	**Report Group:**	K1510507
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469493	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15169
MB Ref:		**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Decachlorobiphenyl	12.26	+0.00	13.62	+0.01	4630951	1233204m	29.29	14.98			146	OK
						%Recovery =	146 OK	75 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242			0	0	0.0000	0.0000	11U	11U	11U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	11U	11U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D			**Vial:**	2
Acqu Date:	10/01/2015 11:22	**Quant Date:**	10/01/2015 18:22	**Dilution:**	5.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510507-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	11U	11U	
Aroclor 1248 {1}	4.93	4.95	8340103	625563	1,780	502.07	890D	250D	RPD
Aroclor 1248			0	0	1,652	1,441	820D	720D	**720**D
Aroclor 1248 {2}	5.29	5.51	6598672	1801599	1,513	698.56	750D	350D	
Aroclor 1248 {3}	5.68	5.92	10935092	4972511	1,702	1,672	850D	830D	
Aroclor 1248 {4}	5.87	6.35	7754317	4772387	1,579	1,989	790D	990D	
Aroclor 1248 {5}	6.28	7.05	7805784	9998501	1,686	2,343	840D	1200ED	
Aroclor 1254 {1}	6.25	6.71	5682445	6958404	1,461	1,894	730D	940D	
Aroclor 1254			0	0	1,296	1,524	650D	760D	**650**D
Aroclor 1254 {2}	6.68	7.05	9142407	9998501	1,260	1,726	630D	860D	
Aroclor 1254 {3}	6.83	7.16	15960273	2933305	1,091	1,514	540D	760D	
Aroclor 1254 {4}	7.17	8.01	10857548	2205073	1,135	973.32	570D	490D	
Aroclor 1254 {5}	7.78	8.76	9710838	4743655	1,534	1,512	760D	750D	
Aroclor 1260 {1}	7.07 +0.00	7.83 +0.00	0	755303	0.0000	342.40	11U	170D	
Aroclor 1260			0	0	345.00	411.52	170D	210D	**170**D
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.01	3327709	1307986	410.13	346.04	200D	170D	
Aroclor 1260 {3}	8.64 +0.00	9.71 +0.01	2326811	1209526	282.69	335.16	140D	170D	
Aroclor 1260 {4}	9.11 +0.00	10.39 +0.01	5584385	4386247	297.06	507.99	150D	250D	
Aroclor 1260 {5}	9.89 +0.01	11.02	5534447	2937767	390.12	525.98	190D	260D	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.108 g	**Dilution:**	5.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F006.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Inj Date : 01-OCT-2015 11:22
Sample Info: K1510507-001 5X
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

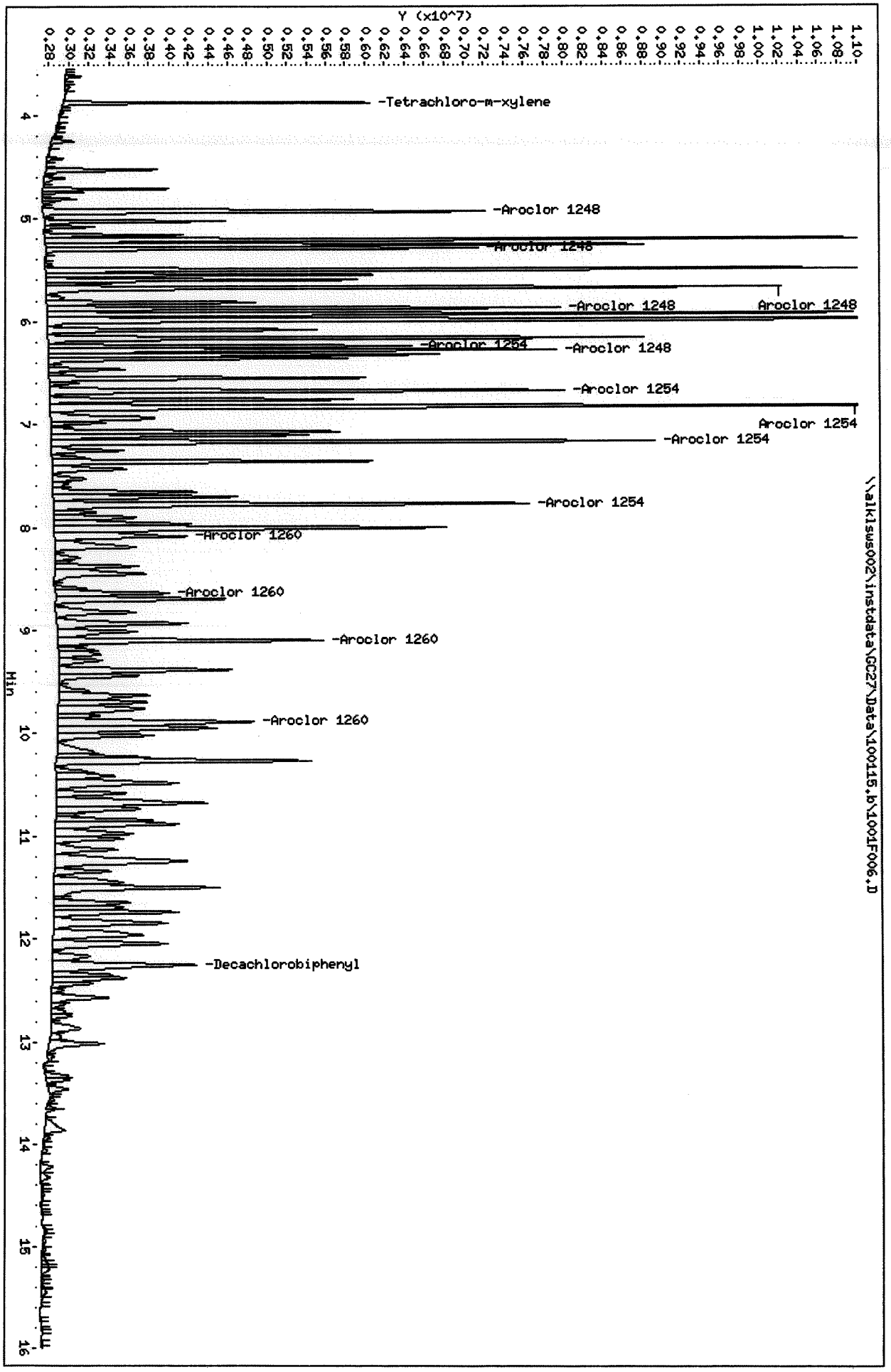
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.336	3208051	1365904	18.1	17.4		100.00
Aroclor 1248	4.933	4.949	8340103	625563	1780	502	80.00- 120.00	100.00
	5.289	5.513	6598672	1801599	1510	699	17.18- 25.77	79.12
	5.676	5.919	10935092	4972511	1700	1670	19.47- 29.21	131.11
	5.873	6.353	7754317	4772387	1580	1990	3.05- 4.58	92.98
	6.283	7.049	7805784	9998501	1690	2340	0.69- 1.04	93.59
		Average of Peak Amounts =			1650	1440		
Aroclor 1254	6.246	6.713	5682445	6958404	1460	1890	80.00- 120.00	100.00
	6.679	7.049	9142407	9998501	1260	1730	1017.66-1526.49	160.89
	6.833	7.156	15960273	2933305	1090	1510	9646.23-14469.35	280.87
	7.173	8.006	10857548	2205073	1140	973	1126.72-1690.08	191.07
	7.776	8.763	9710838	4743655	1530	1510	281.12- 421.67	170.89
		Average of Peak Amounts =			1300	1520		
Aroclor 1260	7.073	7.829		755303		342	80.00- 120.00	100.00
	8.089	9.266	3327709	1307986	410	346	71.90- 107.85	59.52
	8.643	9.713	2326811	1209526	283	335	73.13- 109.69	41.61
	9.106	10.393	5584385	4386247	297	508	172.24- 258.37	99.88
	9.893	11.019	5534447	2937767	390	526	133.82- 200.73	98.98
		Average of Peak Amounts =			345	411		
Decachlorobiphenyl	12.256	13.619	4630951	1233204	29.3	15.0		100.00
Aroclors, Total	0.000	0.000	22750833	11921265	3290	3380		0.00

Data File: \\alklsws002\instdata\GC27\Data\100115,b\1001F006.D
Date : 01-OCT-2015 11:22
Client ID:
Sample Info: K1510507-001 5X

Column phase: DB-35MS

Instrument: GC27,i

Operator: SMURRAY
Column diameter: 0.32



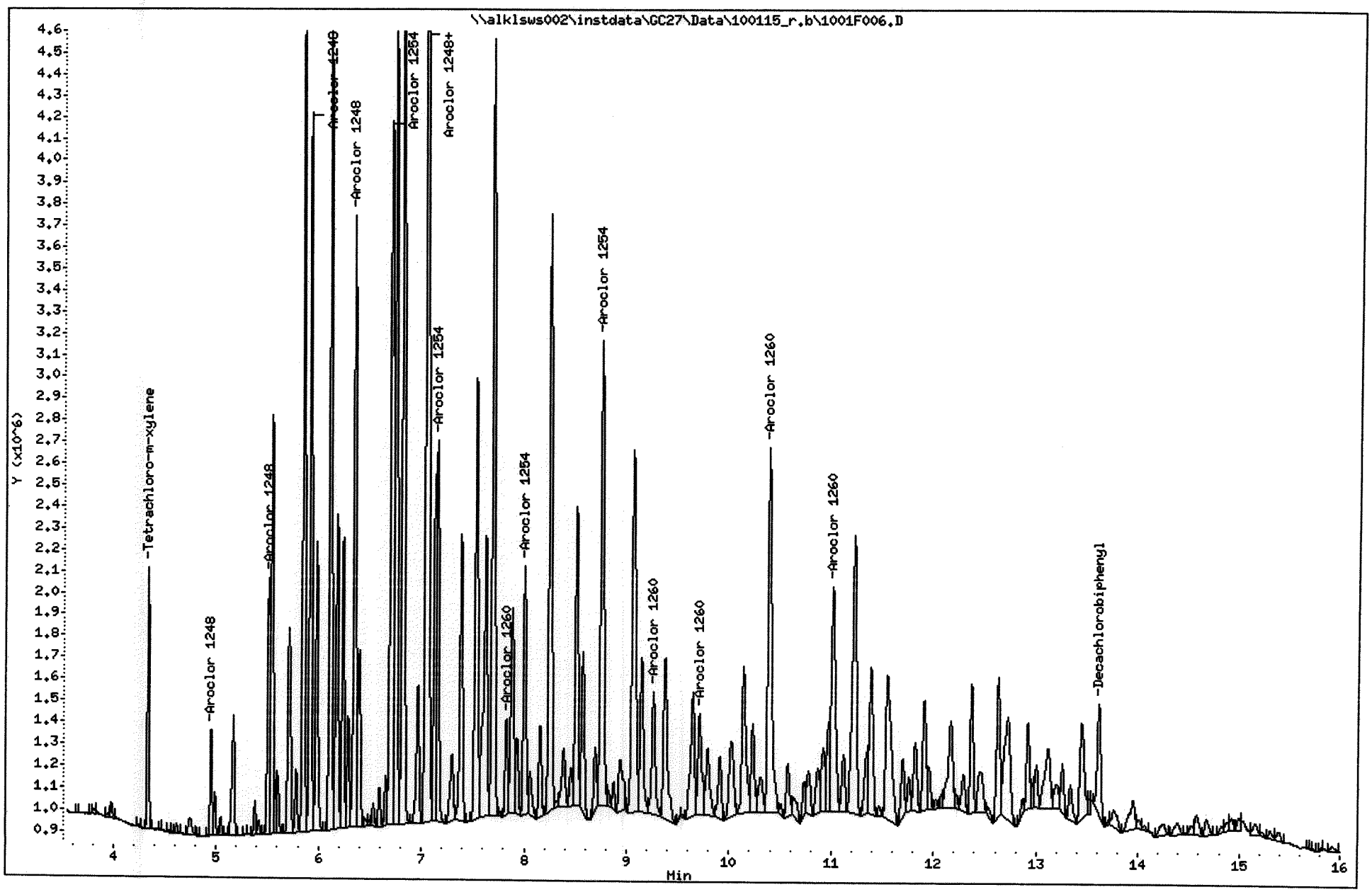
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Date : 01-OCT-2015 11:22
Client ID:
Sample Info: K1510507-001 5X

Instrument: GC27.i

Operator: SHURRAY

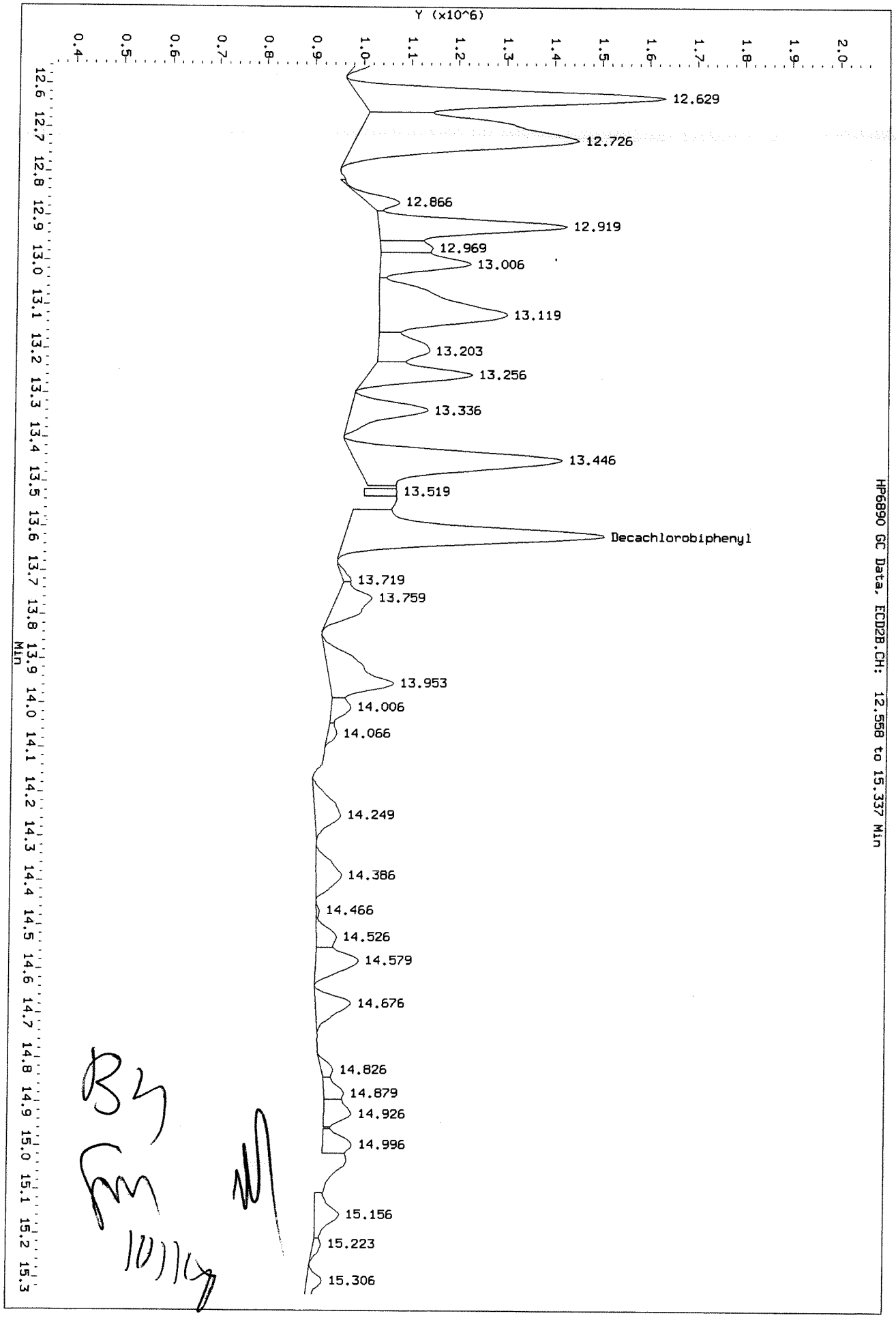
Column phase: DB-XLB

Column diameter: 0.32

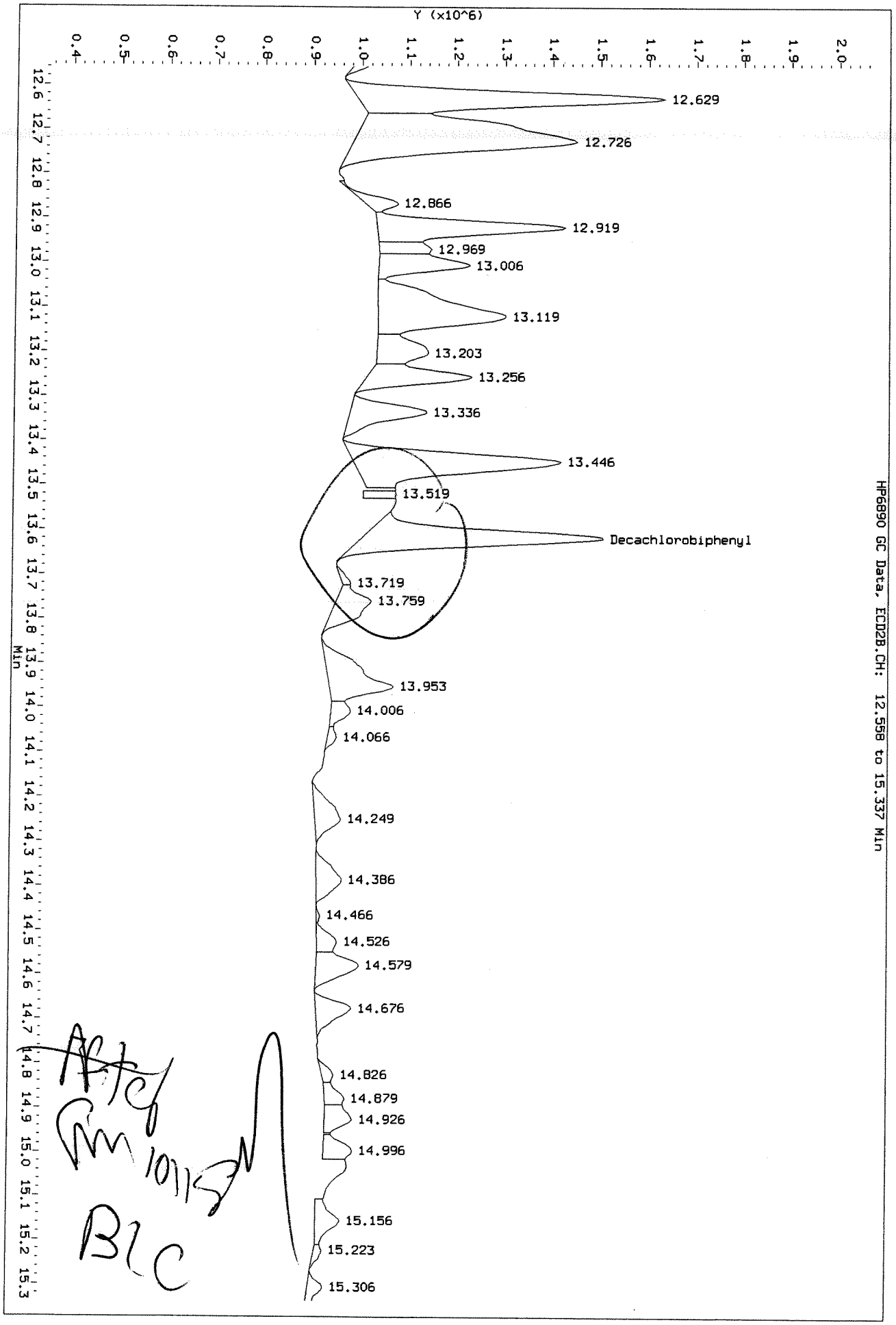


Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Injection Date: 01-OCT-2015 11:22
Instrument: GC27: 1
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 12.558 to 15.337 Min



B4
10/1/15


Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F006.D
Injection Date: 01-OCT-2015 11:22
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 12.558 to 15.337 Min
Y (x10^6)
Min
12.629
12.726
12.866
12.919
12.969
13.006
13.119
13.203
13.256
13.336
13.446
13.519
Decachlorobiphenyl
13.719
13.759
13.953
14.006
14.066
14.249
14.386
14.466
14.526
14.579
14.676
14.826
14.879
14.926
14.996
15.156
15.223
15.306

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F012.D	**Date Acquired:**	09/30/2015 12:26
Lab ID:	KWG1509174-1 -- K1510507-001MS	**Date Quantitated:**	10/02/2015 10:30
RunType:	MS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:55
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F012.D	**Date Acquired:**	09/30/2015 12:26
Lab ID:	KWG1509174-1 -- K1510507-001MS	**Date Quantitated:**	10/02/2015 10:30
RunType:	MS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:58
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469497	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	14545872	6368224	82.17	80.96			82	OK
					%Recovery =	82 OK	81 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	19733874	6931011m	124.79	84.17			125	OK
					%Recovery =	125 OK	84 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	1,926	1,338	192	133	**133**
Aroclor 1016 {1}	4.24	+0.00	4.62	3067617m	1511090	854.73	822.09	85.2	81.9	
Aroclor 1016 {2}	4.74	+0.00	4.95	3820180m	4161645	1,275	1,709	127	170	
Aroclor 1016 {3}	4.94	+0.00	5.59	36096792m	4444708	3,649	1,482	364	148	
Aroclor 1016 {4}	5.21	+0.01	5.92	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}	5.50	+0.01	6.12	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total				40942462	18160363	4,195	4,248	418J	423J	**418J**
Aroclor 1260				0	0	2,268	2,910	226	290	**226**
Aroclor 1260 {1}	7.08	+0.01	7.83	29447077	5406278m	2,989	2,451	298	244	
Aroclor 1260 {2}	8.09	+0.01	9.27	18234291	10063422m	2,247	2,662	224	265	
Aroclor 1260 {3}	8.65	+0.01	9.72	14484674	8947928m	1,760	2,479	175	247	
Aroclor 1260 {4}	9.11	+0.01	10.40	37767235	30163028m	2,009	3,493	200	348	
Aroclor 1260 {5}	9.90	+0.01	11.02	33138053	19358753m	2,336	3,466	233	345	
Aroclor 1262				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.145 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D			**Vial:**	8
Acqu Date:	09/30/2015 12:26	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-1 -- K1510507-001MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Inj Date : 30-SEP-2015 12:26
Sample Info: K1510507-001 MS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.340	14545872	6368224	82.2	81.0		100.00
Aroclor 1016	4.236	4.616	3067617	1511090	855	822	80.00- 120.00	100.00(M)
	4.740	4.953	3820180	4161645	1280	1710	63.77- 95.65	124.53(M)
	4.936	5.590	36096792	4444708	3650	1480	194.05- 291.08	1176.70(M)
	5.210	5.923					92.87- 139.30	0.00(M)
	5.500	6.116					91.60- 137.40	0.00(M)
		Average of Peak Amounts =			1930	1340		
Aroclor 1260	7.076	7.833	29447077	5406278	2990	2450	80.00- 120.00	100.00
	8.093	9.266	18234291	10063422	2250	2660	69.66- 104.50	61.92
	8.646	9.716	14484674	8947928	1760	2480	70.04- 105.07	49.19
	9.110	10.396	37767235	30163028	2010	3490	163.82- 245.72	128.25
	9.896	11.023	33138053	19358753	2340	3470	134.64- 201.96	112.53
		Average of Peak Amounts =			2270	2910		
Decachlorobiphenyl	12.263	13.623	19733874	6931011	125	84.2		100.00
Aroclors, Total	0.000	0.000	40942462	18160363	4190	4250		0.00

QC Flag Legend

M - Compound response manually integrated.

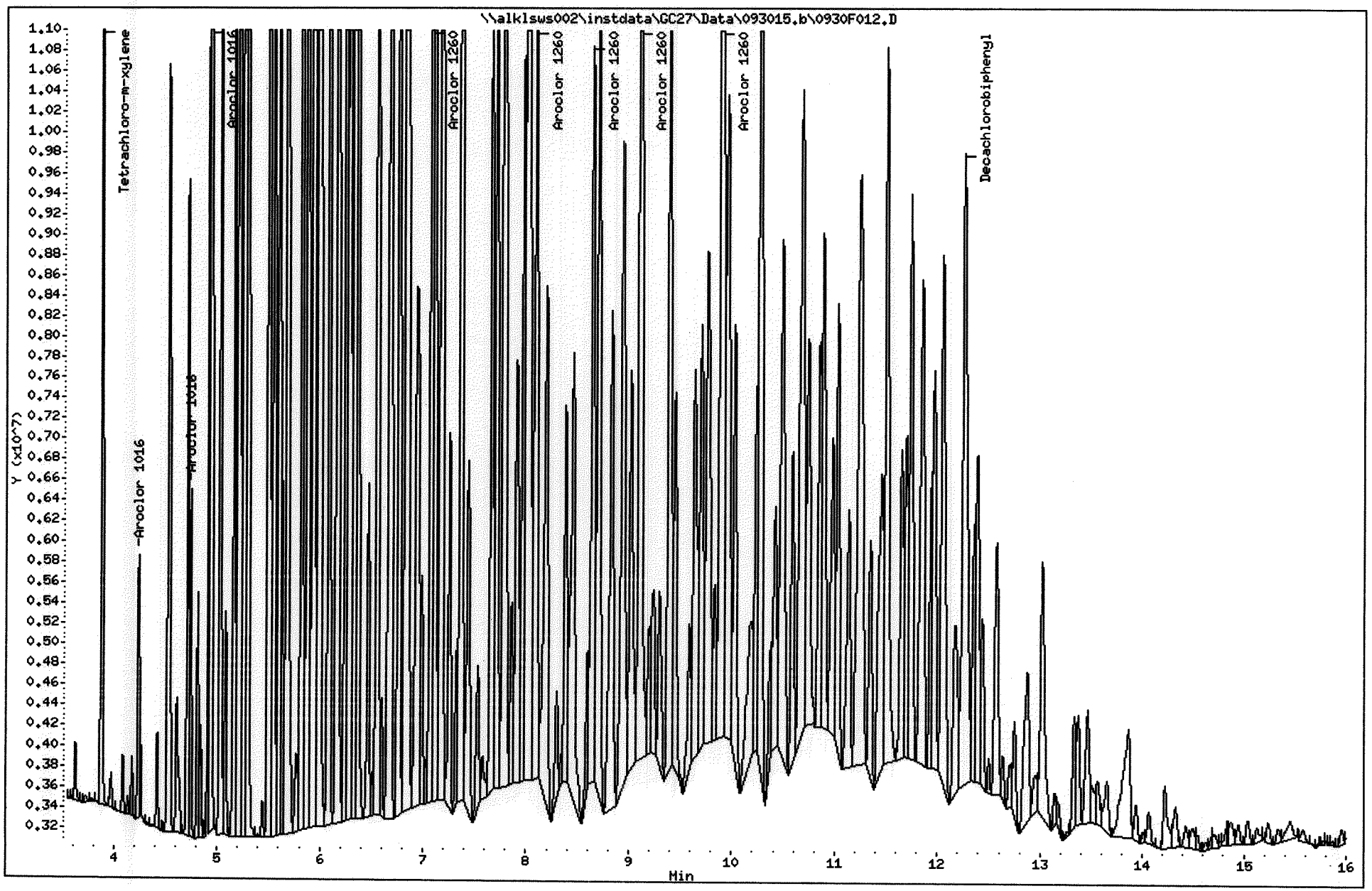
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Date : 30-SEP-2015 12:26
Client ID:
Sample Info: K1510507-001 MS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



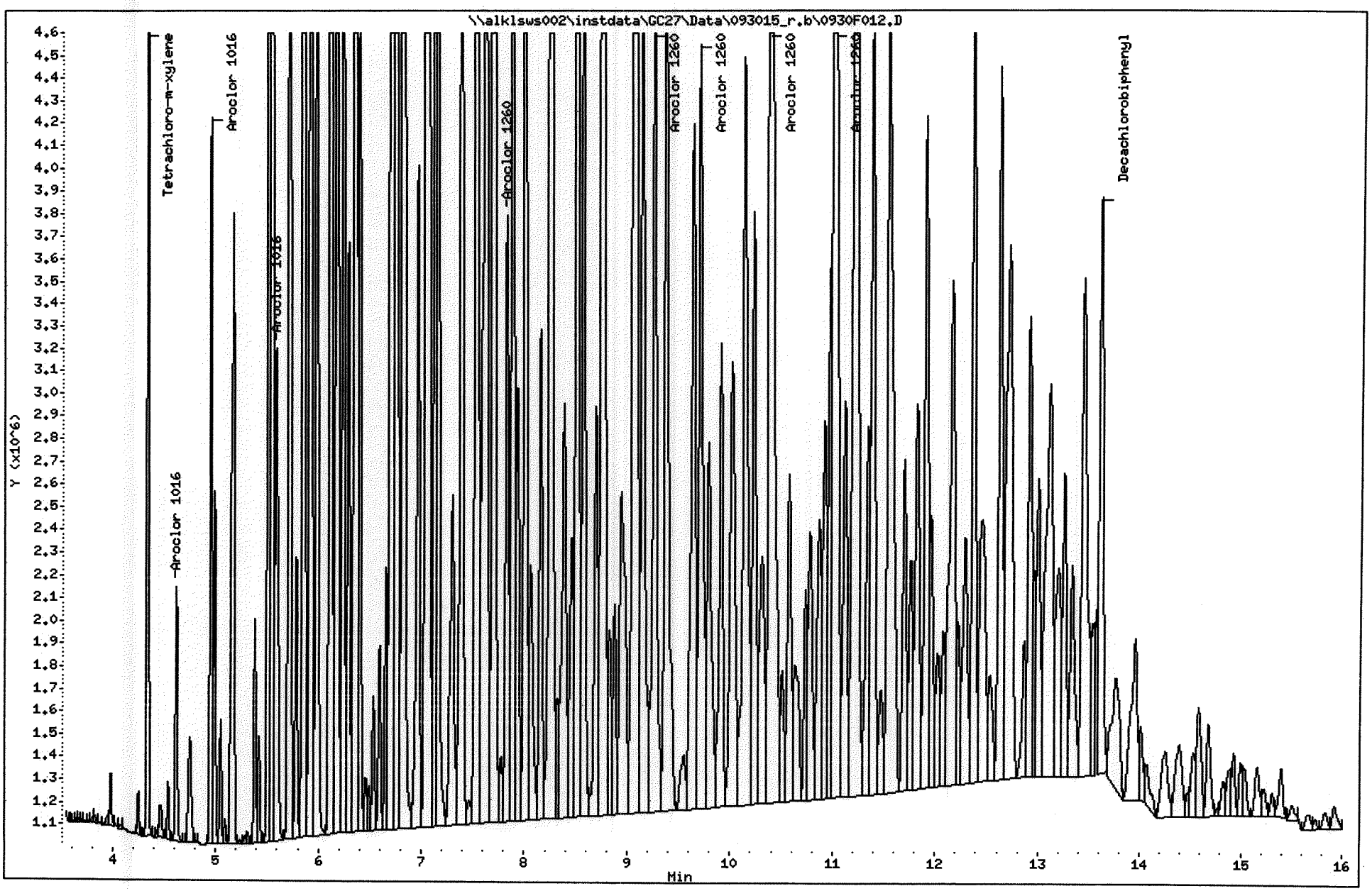
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Date : 30-SEP-2015 12:26
Client ID:
Sample Info: K1510507-001 MS

Instrument: GC27.i

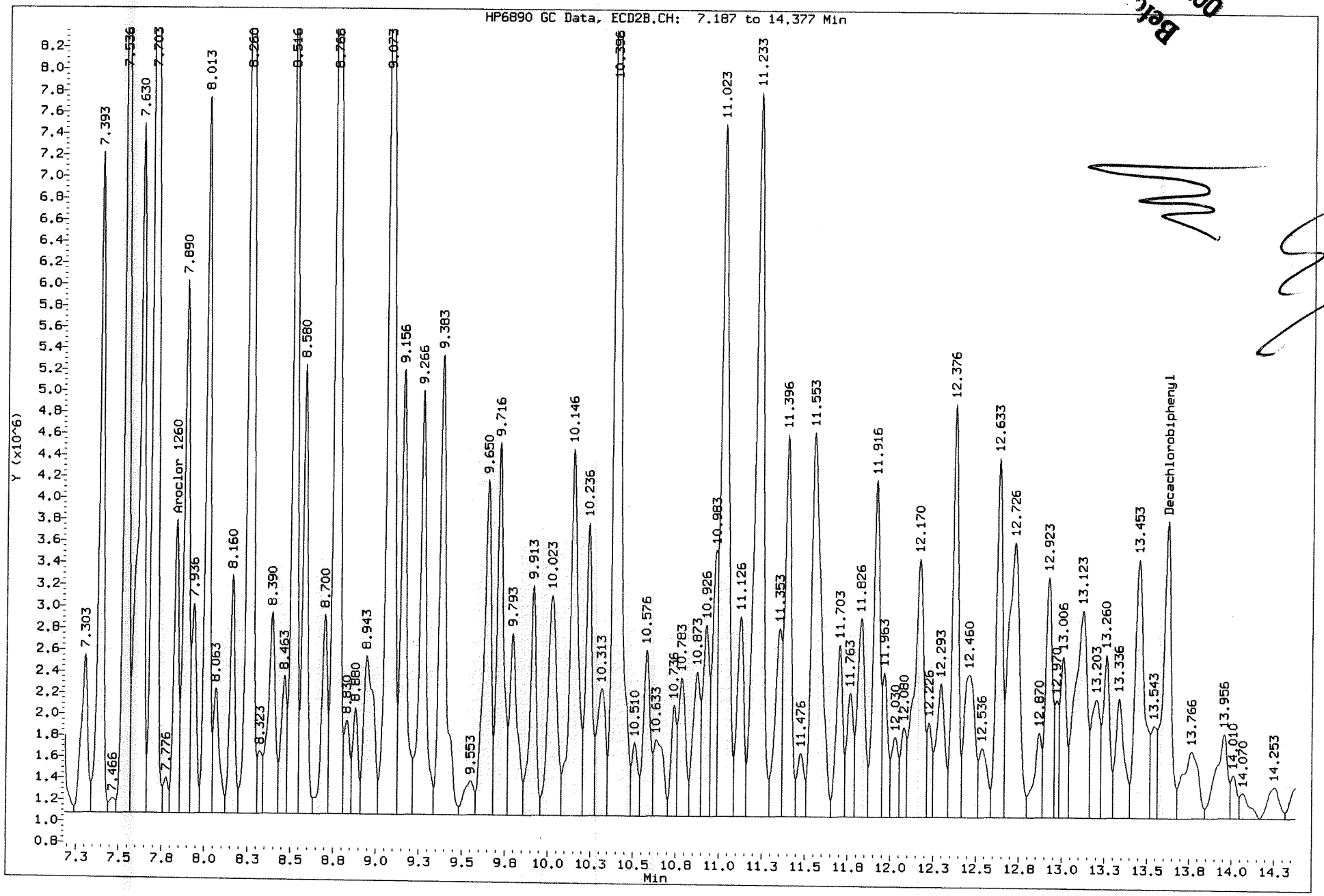
Operator: SMURRAY

Column phase: DB-XLB

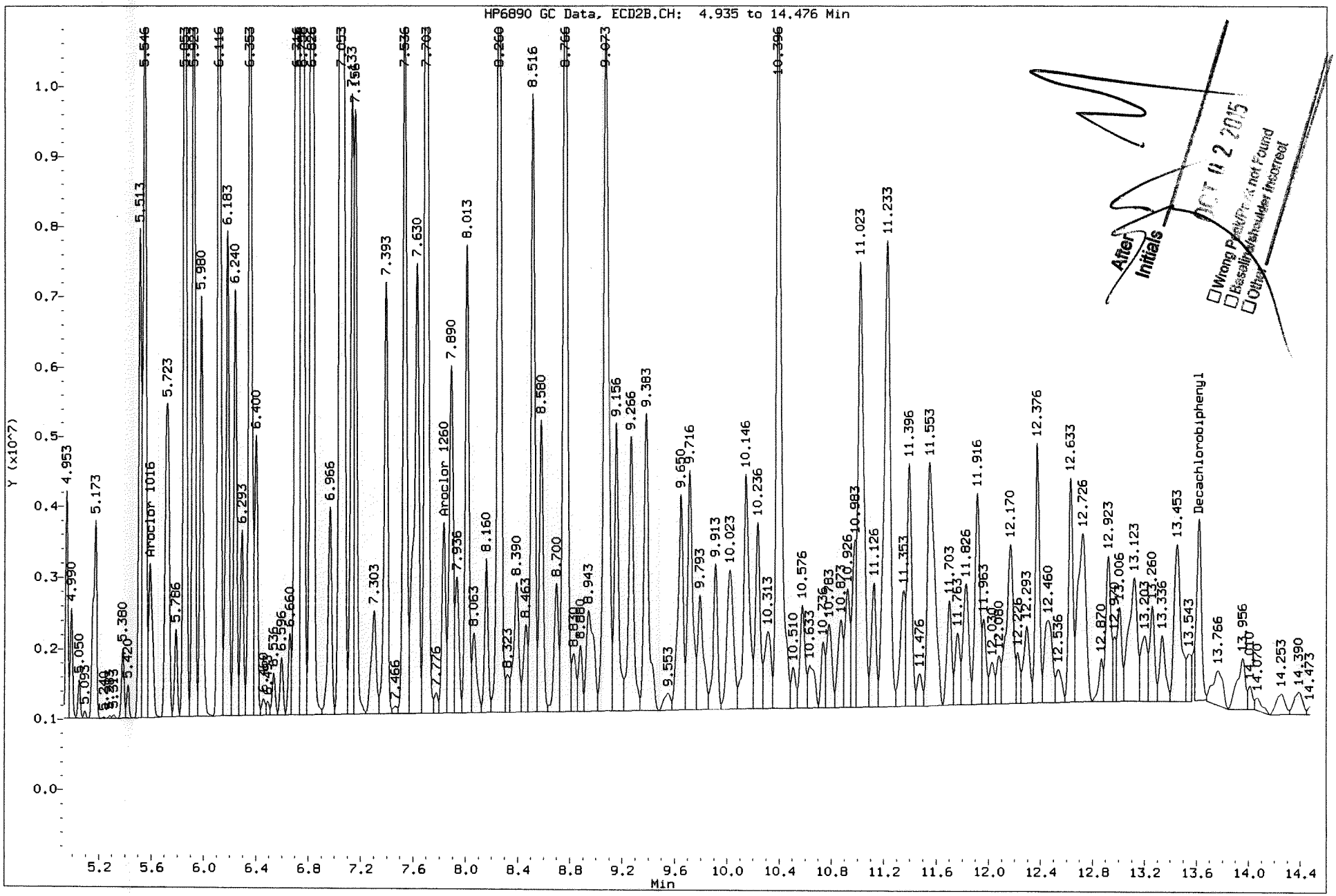
Column diameter: 0.32



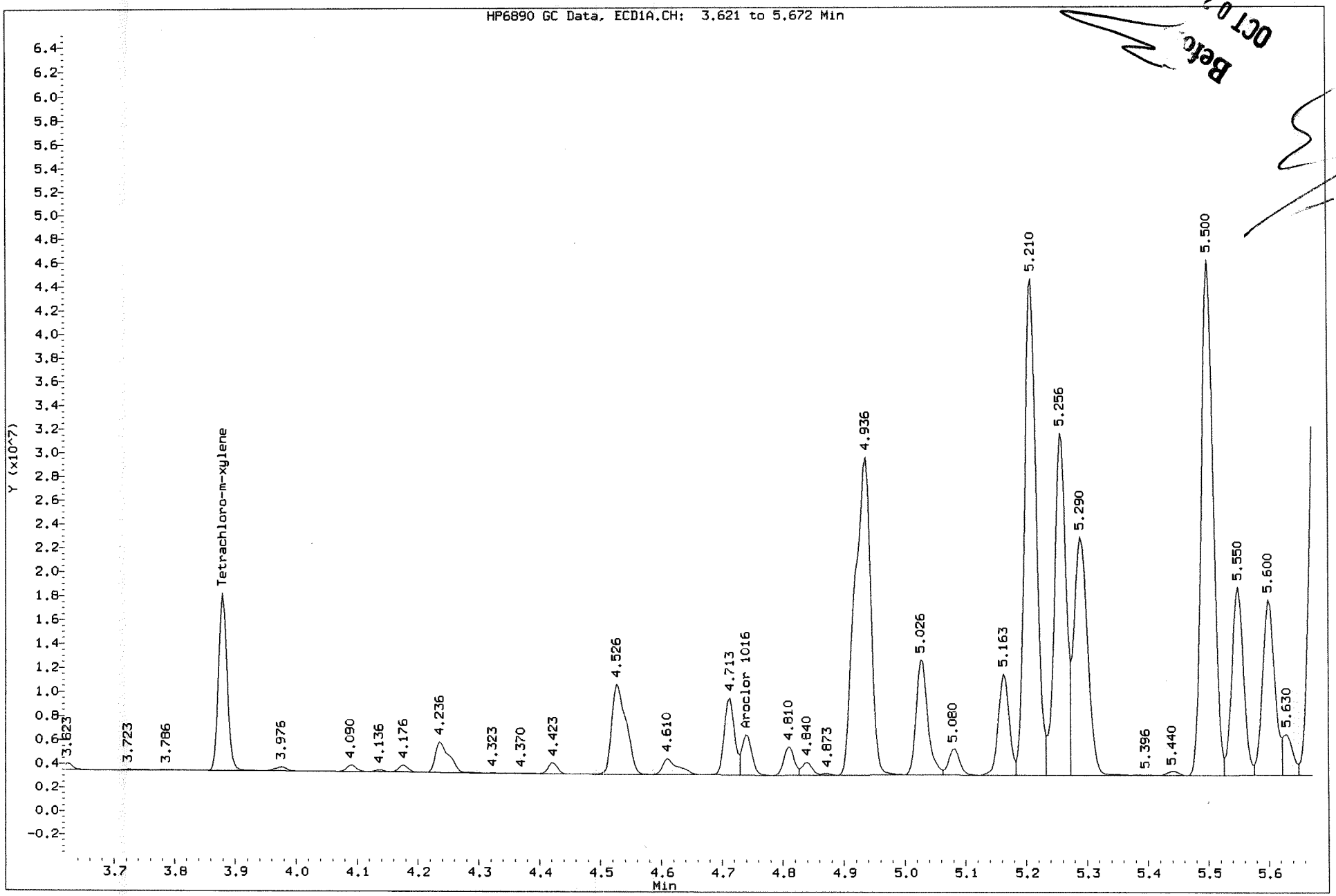
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



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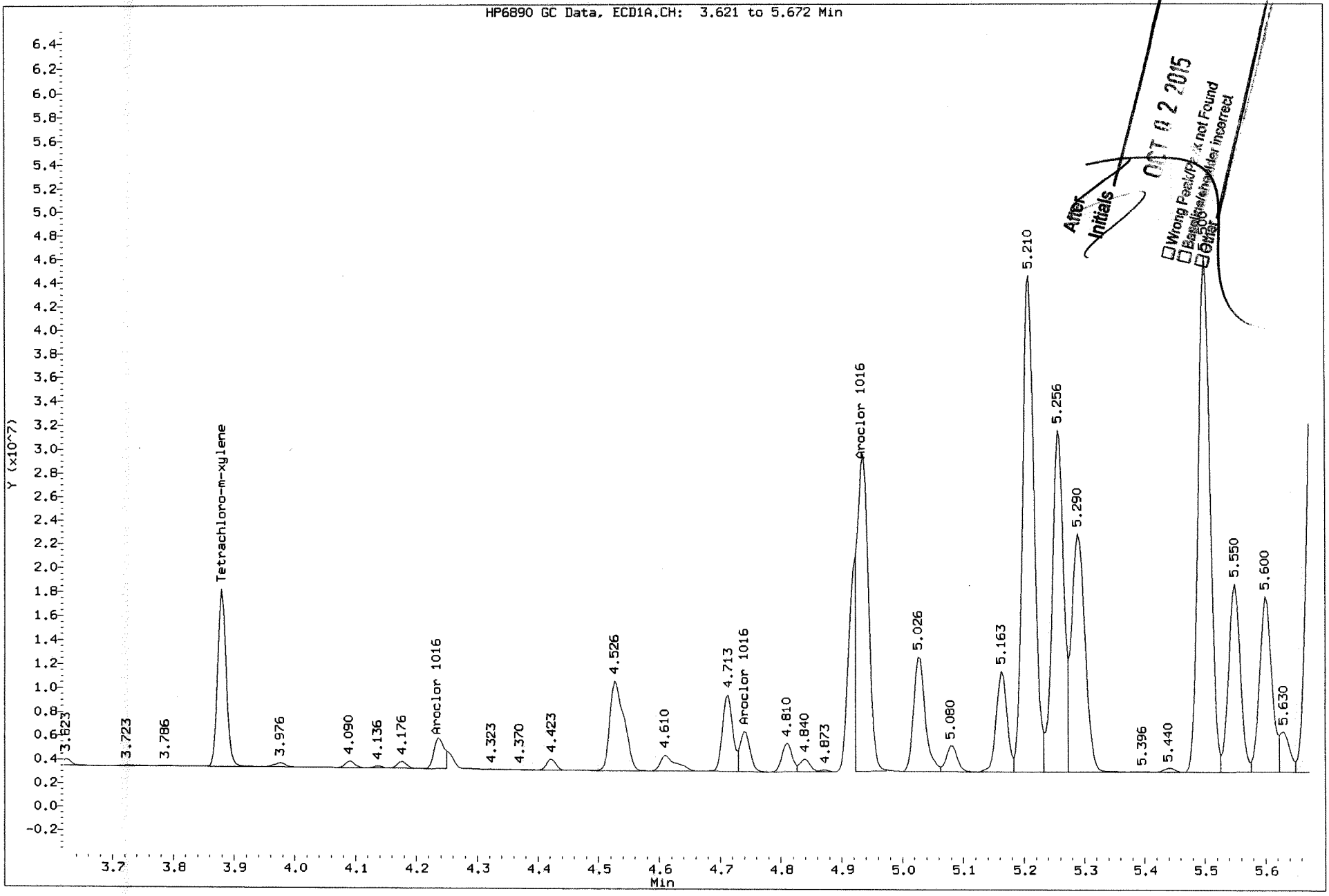
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F012.D
Injection Date: 30-SEP-2015 12:26
Instrument: GC27.i
Client Sample ID:



After Initials

OCT 8 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/Integration Error incorrect
☐ Other

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F013.D
Lab ID: KWG1509174-2 -- K1510507-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/30/2015 12:50
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:01
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F013.D
Lab ID: KWG1509174-2 -- K1510507-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/30/2015 12:50
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:04
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469498	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.01	4.34	13110170	5908228	74.06	75.12			75	OK
					%Recovery =	74 OK	75 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	19264412	5809030m	121.82	70.54			122	OK
					%Recovery =	122 OK	71 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	1,949	1,335	194	133	**133**
Aroclor 1016 {1}	4.24	+0.00	4.62	2657127m	1408116	740.36	766.07	73.8	76.3	
Aroclor 1016 {2}	4.74	+0.00	4.95	4253690m	4215131	1,420	1,731	141	173	
Aroclor 1016 {3}	4.94	+0.01	5.59	36468180m	4520732	3,687	1,507	367	150	
Aroclor 1016 {4}	5.21	+0.01	5.92	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}	5.50	+0.01	6.12	0m	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			40843913	16399609	4,194	3,890	418J	388J	**418J**
Aroclor 1260			0	0	2,245	2,555	224	255	**224**
Aroclor 1260 {1}	7.08 +0.01	7.83	27944678	4735974m	2,837	2,147	283	214	
Aroclor 1260 {2}	8.09 +0.01	9.27	18780067	9013758m	2,315	2,385	231	238	
Aroclor 1260 {3}	8.65 +0.01	9.72	14155532	7481678m	1,720	2,073	171	207	
Aroclor 1260 {4}	9.11 +0.01	10.40	37688586	26620591m	2,005	3,083	200	307	
Aroclor 1260 {5}	9.89 +0.01	11.02	33352375	17239416m	2,351	3,087	234	308	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.138 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F013.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D			**Vial:**	9
Acqu Date:	09/30/2015 12:50	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-2 -- K1510507-001DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Inj Date : 30-SEP-2015 12:50
Sample Info: K1510507-001 DMS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.337	13110170	5908228	74.1	75.1		100.00
Aroclor 1016	4.237	4.617	2657127	1408116	740	766	80.00- 120.00	100.00(M)
	4.740	4.953	4253690	4215131	1420	1730	63.77- 95.65	113.89(M)
	4.937	5.587	36468180	4520732	3690	1510	194.05- 291.08	1339.76(M)
	5.210	5.920					92.87- 139.30	0.00(M)
	5.500	6.117					91.60- 137.40	0.00(M)
		Average of Peak Amounts =			1950	1340		
Aroclor 1260	7.077	7.833	27944678	4735974	2840	2150	80.00- 120.00	100.00
	8.093	9.267	18780067	9013758	2310	2380	69.66- 104.50	67.20
	8.647	9.720	14155532	7481678	1720	2070	70.04- 105.07	50.66
	9.110	10.397	37688586	26620591	2000	3080	163.82- 245.72	134.87
	9.893	11.023	33352375	17239416	2350	3090	134.64- 201.96	119.35
		Average of Peak Amounts =			2240	2550		
Decachlorobiphenyl	12.260	13.620	19264412	5809030	122	70.5		100.00
Aroclors, Total	0.000	0.000	40843913	16399609	4190	3890		0.00

QC Flag Legend

M - Compound response manually integrated.

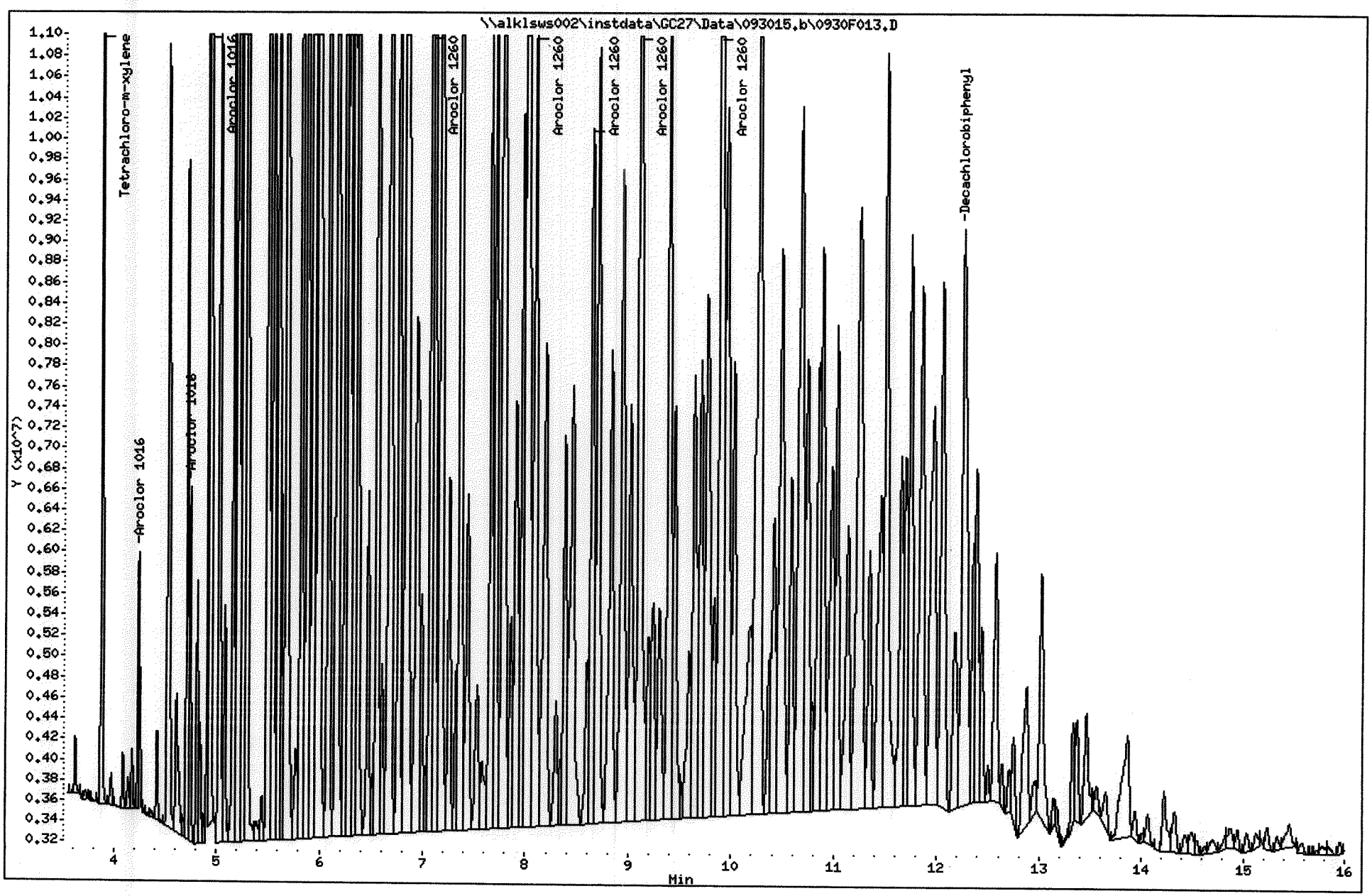
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Date : 30-SEP-2015 12:50
Client ID:
Sample Info: K1510507-001 DMS

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

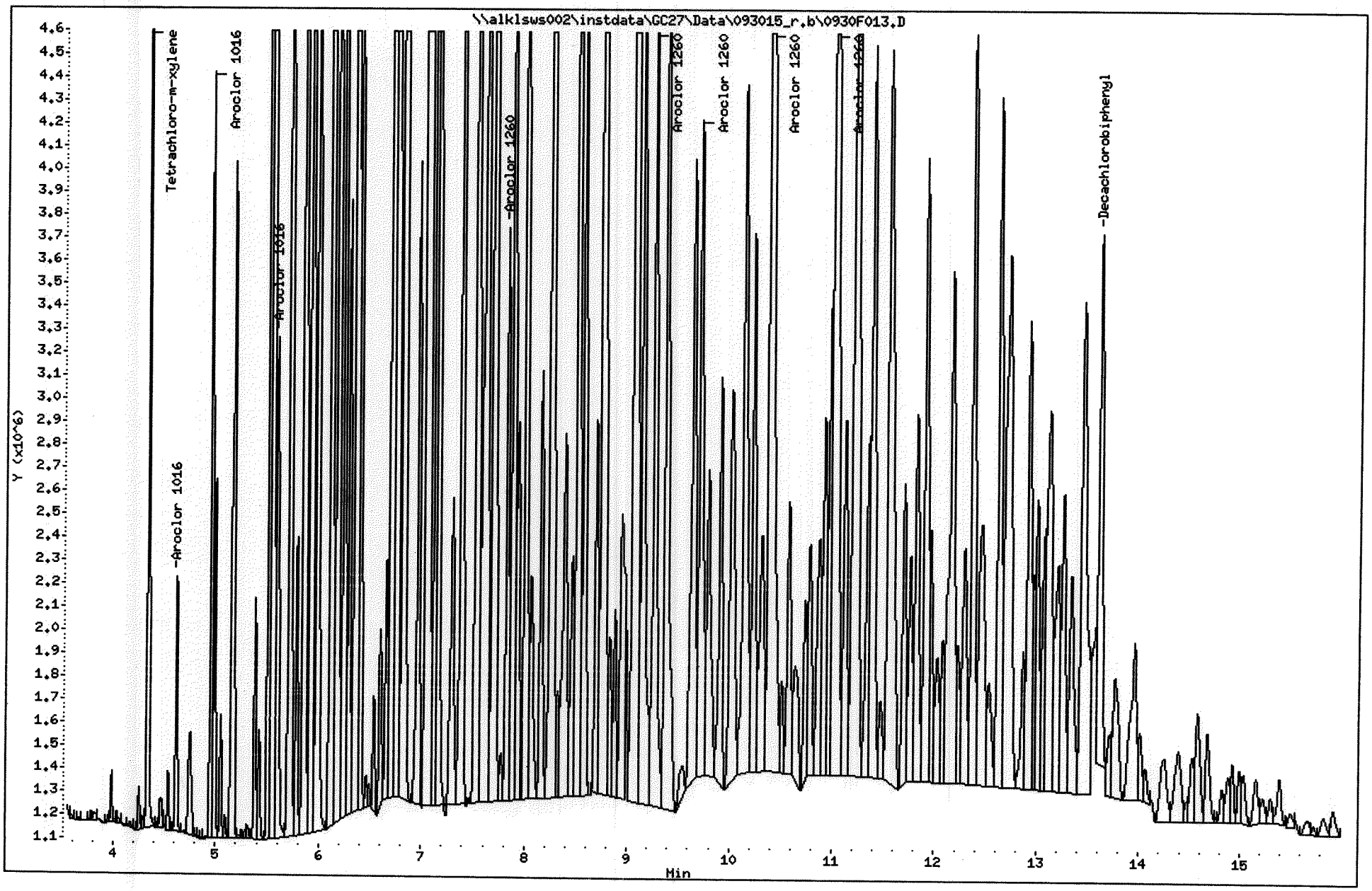


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Date : 30-SEP-2015 12:50
Client ID:
Sample Info: K1510507-001 DMS

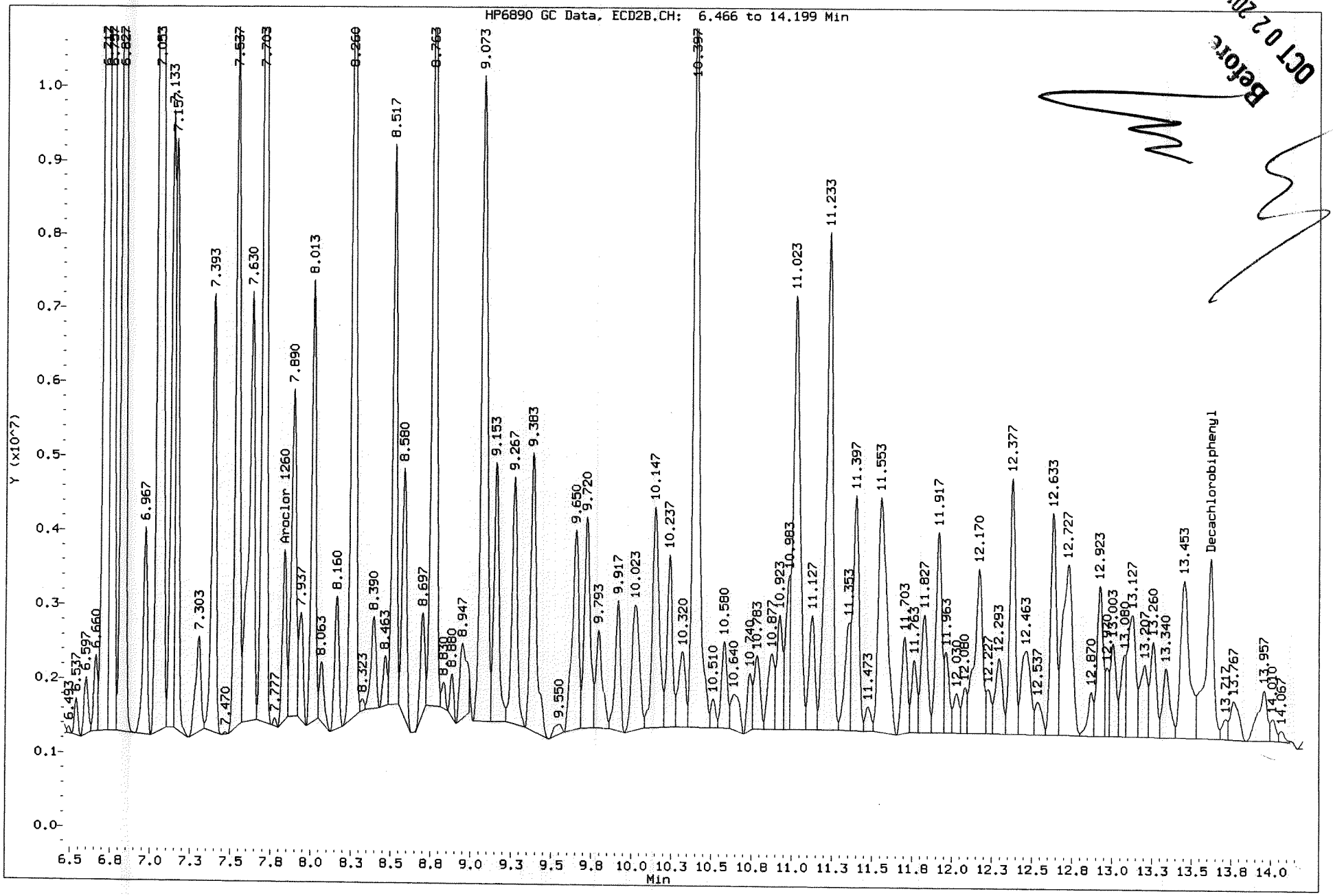
Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32

Column phase: DB-XLB

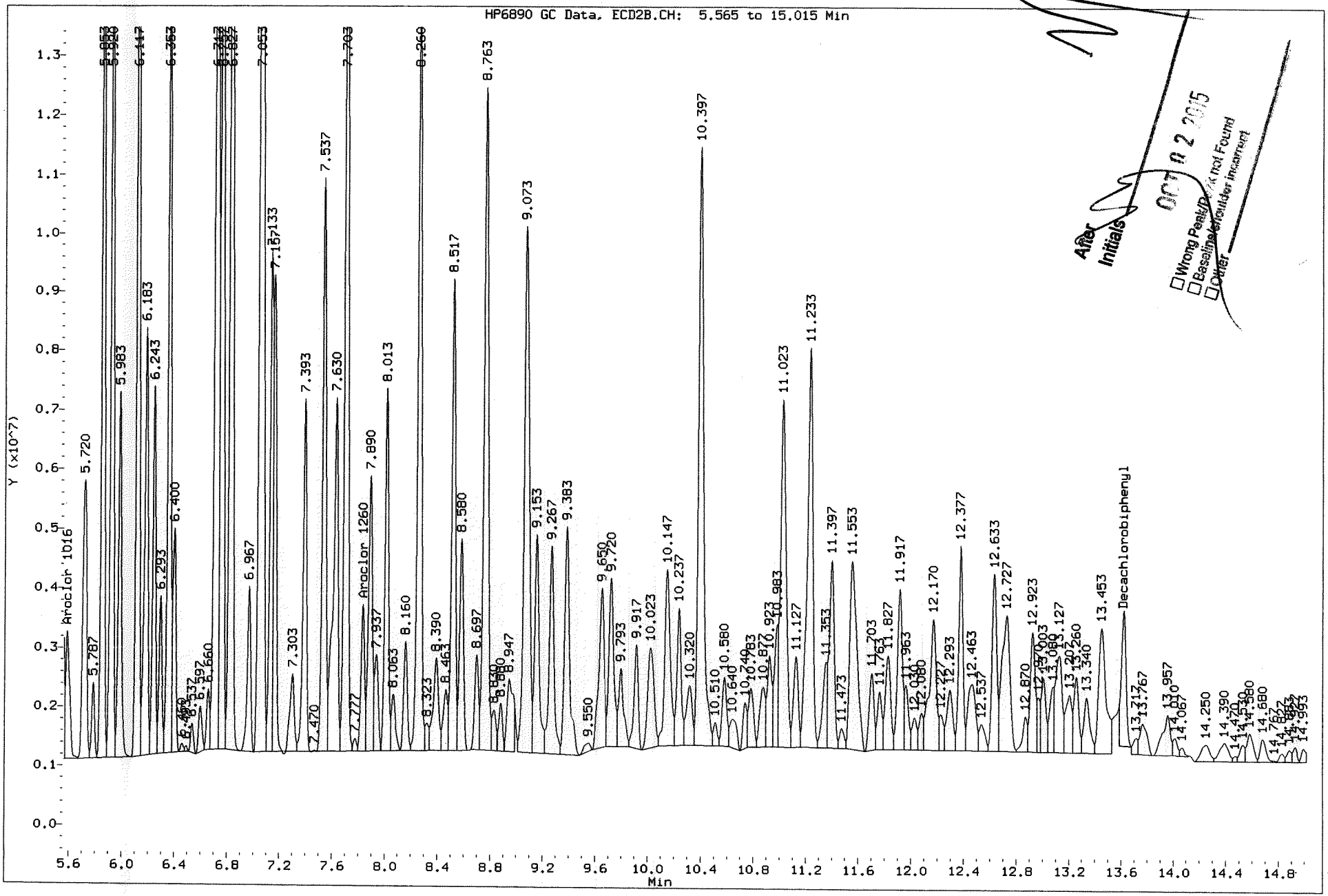


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:



Before OCT 02 2015

Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:

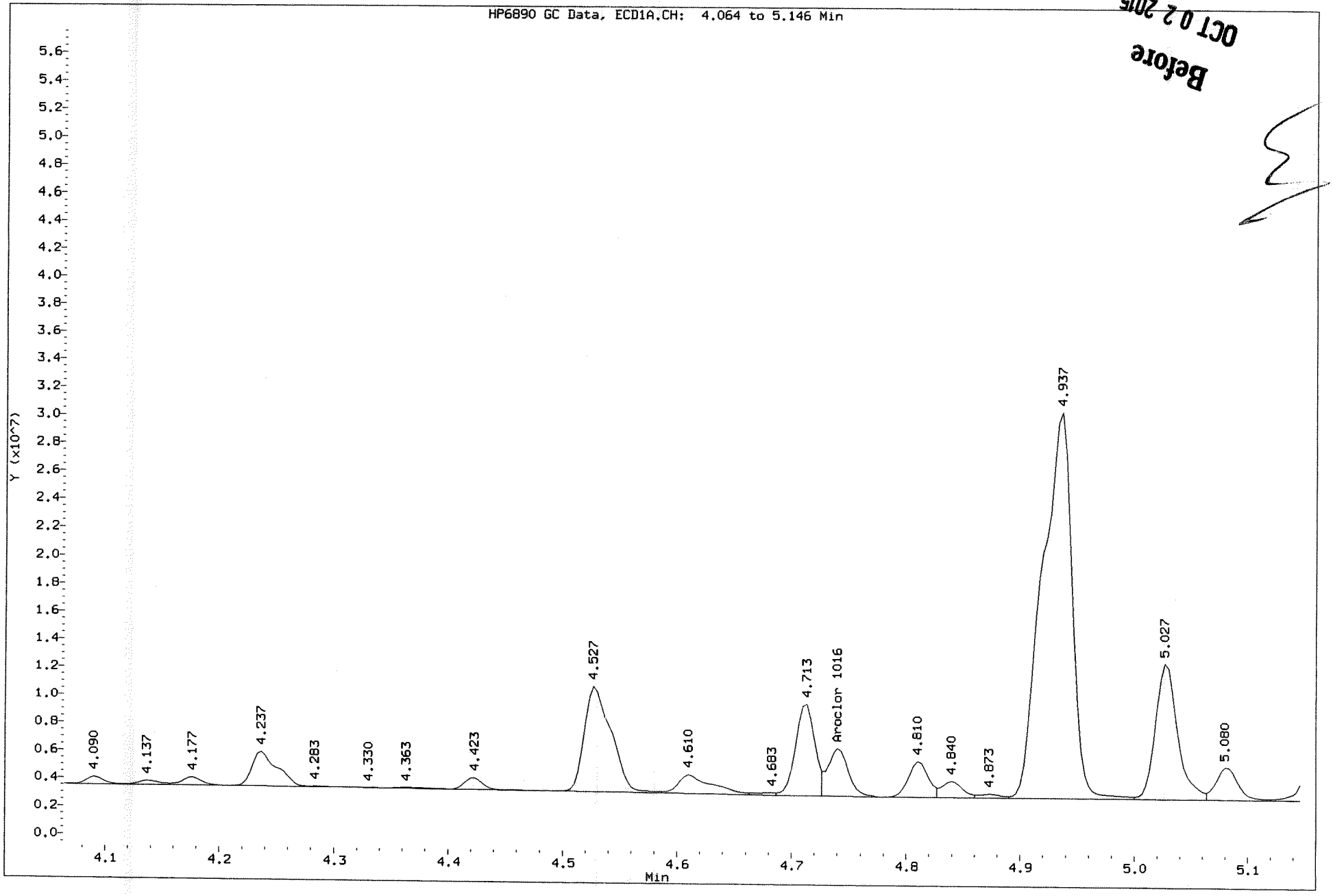


After Initials

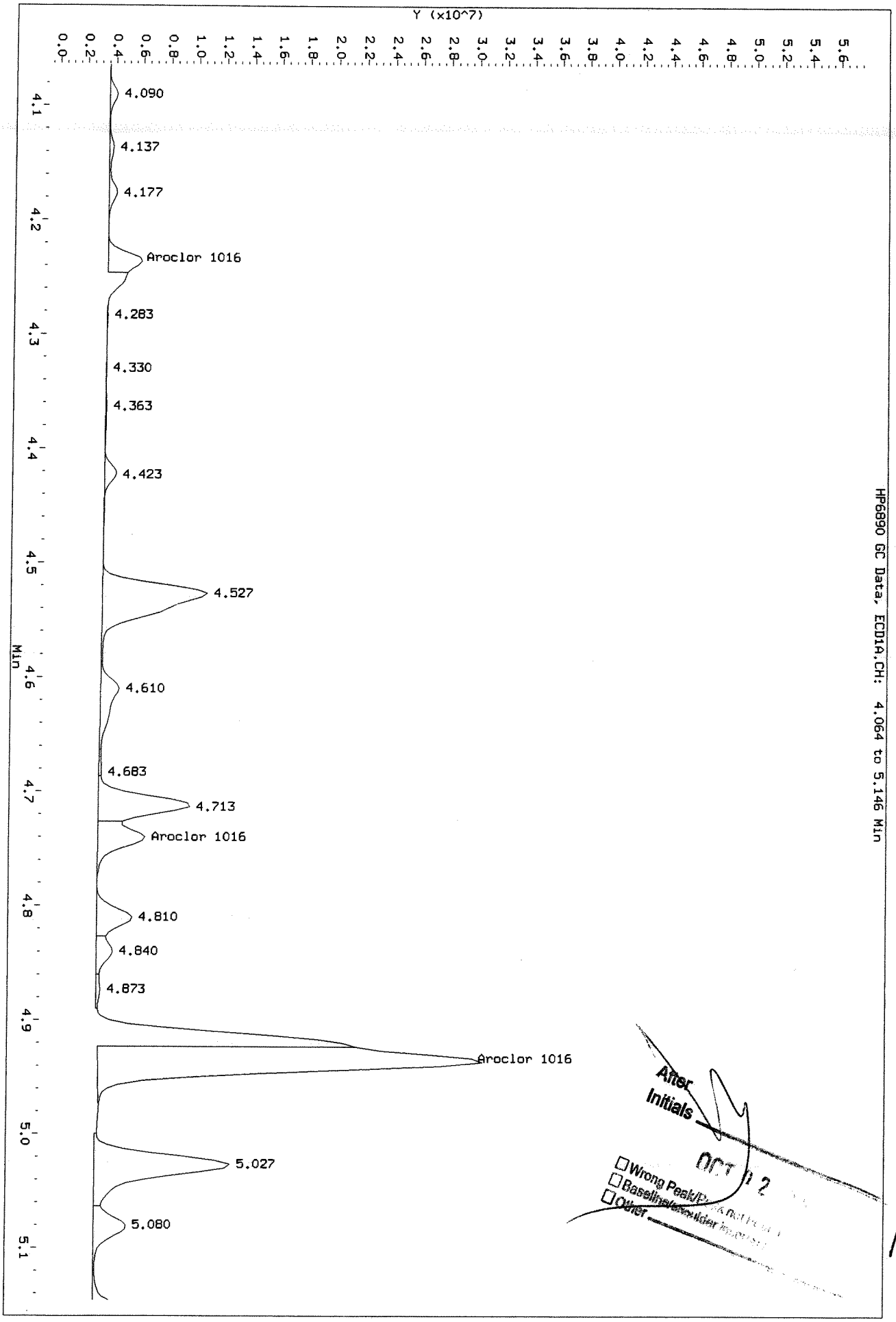
OCT 0 2 2015

☐ Wrong Peak/Peak not Found
☐ Baseline/shoulder incorrect
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:



Before
OCT 02 2015


Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F013.D
Injection Date: 30-SEP-2015 12:50
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD1A.CH: 4.064 to 5.146 Min
Y (x10^7)
Min
4.090
4.137
4.177
Aroclor 1016
4.283
4.330
4.363
4.423
4.527
4.610
4.683
4.713
Aroclor 1016
4.810
4.840
4.873
Aroclor 1016
5.027
5.080
After
Initials
OCT 0 2
Wrong Peak/P
Baseline/shoulder
Other

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F005.D	**Date Acquired:**	09/30/2015 09:40
Lab ID:	KWG1509174-3	**Date Quantitated:**	10/02/2015 10:30
RunType:	LCS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:31
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F005.D	**Date Acquired:**	09/30/2015 09:40
Lab ID:	KWG1509174-3	**Date Quantitated:**	10/02/2015 10:29
RunType:	LCS	**Batch ID:**	KWG1509500
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:44:34
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/29/2015

Analysis Lot:	KWG1509500	**Prep Lot:**	KWG1509174	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1469499	**Prep Date:**	09/24/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\093015.B\0930F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt	
Tetrachloro-m-xylene	3.88	+0.00	4.34	11978544	5271380	67.67	67.02			68	OK
					%Recovery =	68 OK	67 OK	Limits =	10-135		
Decachlorobiphenyl	12.26	+0.01	13.62	11025217	5599446	69.72	68.00			70	OK
					%Recovery =	70 OK	68 OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1		RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016				0	0	568.47	588.98	114	118	**114**
Aroclor 1016 {1}	4.24	+0.00	4.62	2223346m	1165553	619.49	634.10	124	127	
Aroclor 1016 {2}	4.74		4.95	1723677m	1458903	575.31	599.24	115	120	
Aroclor 1016 {3}	4.93	+0.00	5.59	5531520m	1686882	559.24	562.44	112	112	
Aroclor 1016 {4}	5.20	+0.00	5.92	2661170m	1252046	536.39	570.40	107	114	
Aroclor 1016 {5}	5.50	+0.00	6.11	2856997m	1247657	551.93	578.69	110	116	
Aroclor 1221				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232				0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}				0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242				0	0	0.0000	0.0000	2.1U	2.1U	2.1U

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			11365759	4888416	1,268	1,317	254J	263J	**254J**
Aroclor 1260			0	0	699.36	728.00	140	146	**140**
Aroclor 1260 {1}	7.07 +0.00	7.83	5542915	1418803	562.70	643.19	113	129	
Aroclor 1260 {2}	8.09 +0.00	9.26	5921864	2918389	729.85	772.09	146	154	
Aroclor 1260 {3}	8.64 +0.00	9.71	5947979	2643274	722.63	732.45	145	146	
Aroclor 1260 {4}	9.10 +0.00	10.39	13857332	6557507	737.14	759.46	147	152	
Aroclor 1260 {5}	9.89 +0.01	11.02	10561995	4093066	744.50	732.83	149	147	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D			**Vial:**	1
Acqu Date:	09/30/2015 09:40	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509174-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D
Inj Date : 30-SEP-2015 09:40
Sample Info: KWG1509174-3 LCS
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

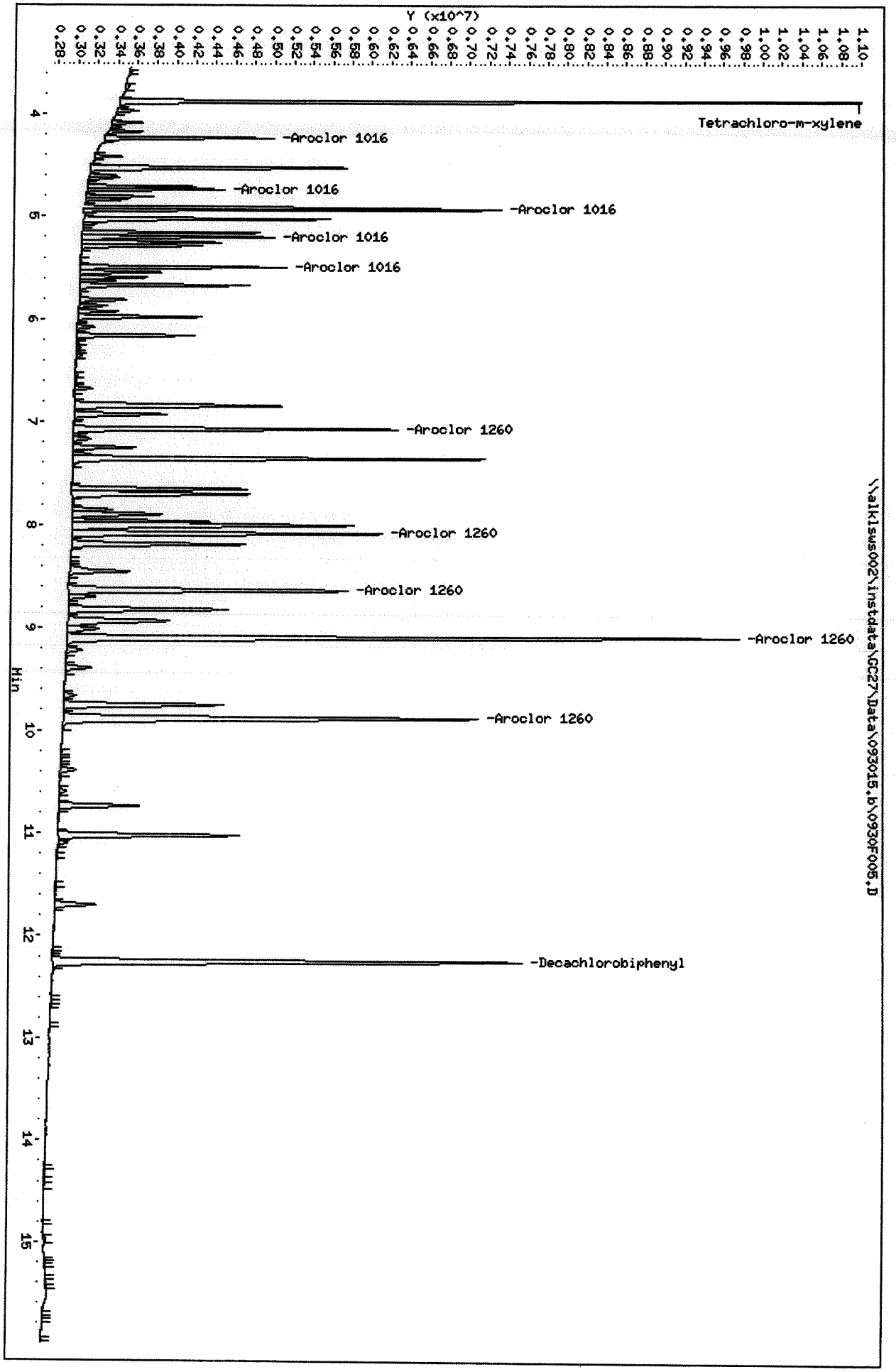
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.877	4.337	11978544	5271380	67.7	67.0		100.00
Aroclor 1016	4.237	4.617	2223346	1165553	619	634	80.00- 120.00	100.00(M)
	4.737	4.951	1723677	1458903	575	599	63.77- 95.65	77.53(M)
	4.934	5.587	5531520	1686882	559	562	194.05- 291.08	394.40(M)
	5.204	5.917	2661170	1252046	536	570	100.33- 150.49	119.69(M)
	5.497	6.114	2856997	1247657	552	579	105.01- 157.51	128.50(M)
		Average of Peak Amounts =			568	589		
Aroclor 1260	7.071	7.827	5542915	1418803	563	643	80.00- 120.00	100.00
	8.087	9.264	5921864	2918389	730	772	69.66- 104.50	106.84
	8.641	9.711	5947979	2643274	723	732	70.04- 105.07	107.31
	9.104	10.391	13857332	6557507	737	759	163.82- 245.72	250.00
	9.891	11.024	10561995	4093066	745	733	134.64- 201.96	190.55
		Average of Peak Amounts =			700	728		
Decachlorobiphenyl	12.257	13.617	11025217	5599446	69.7	68.0		100.00
Aroclors, Total	0.000	0.000	11365759	4888416	1270	1320		0.00

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\093015,b\0930F005.D
Date : 30-SEP-2015 09:40
Client ID:
Sample Info: KWG1509174-3 LCS
Column phase: DB-35MS

Instrument: GC27.i
Operator: SMURRAY
Column diameter: 0.32



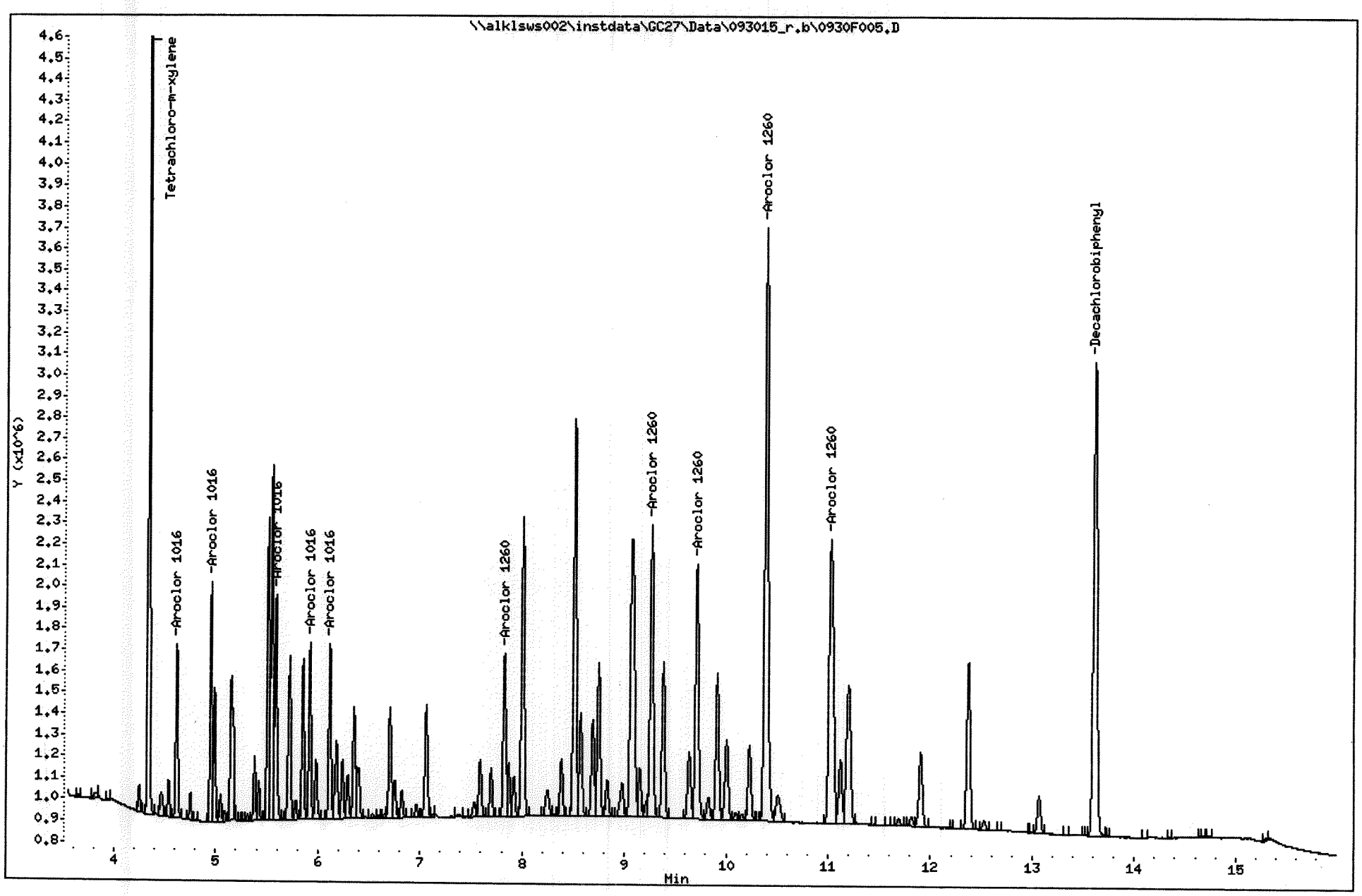
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F005.D
Date : 30-SEP-2015 09:40
Client ID:
Sample Info: KWG1509174-3 LCS

Instrument: GC27.i

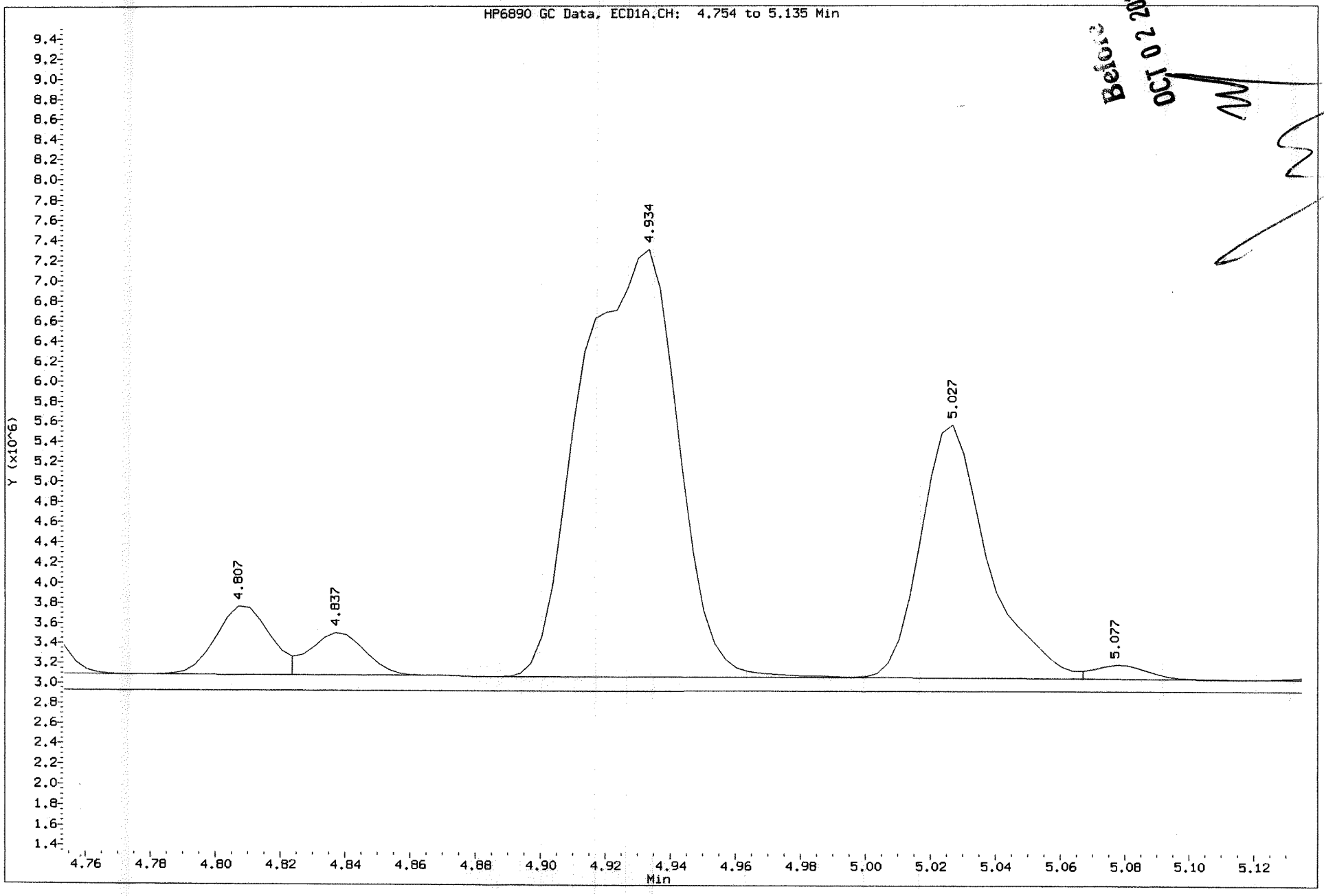
Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32

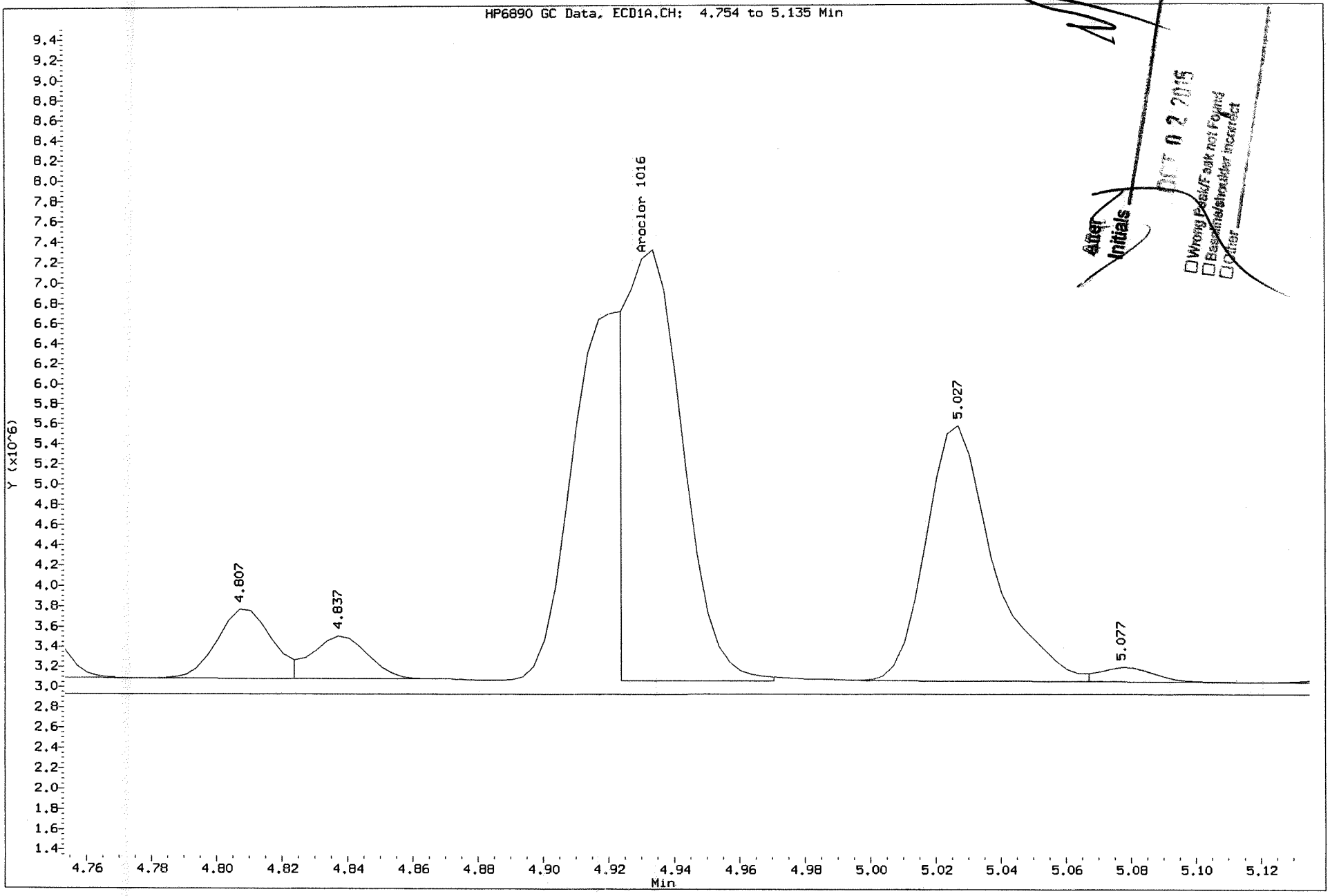


Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Injection Date: 30-SEP-2015 09:40
Instrument: GC27.i
Client Sample ID:



Before
OCT 02 2015

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F005.D
Injection Date: 30-SEP-2015 09:40
Instrument: GC27.i
Client Sample ID:



After Initials
OCT 0 2 2015
Wrong Peak/Peak not Found
Baseline/shoulder incorrect
Other

Sequence Name: C:\GC27\SEQUENCE\093015.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\093015\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Run#464654
Cal # 13694

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	0930F001	PCB_REG	PRIMER
2	IB	100	0930F002	PCB_REG	PRIMER
3	CCV	95	0930F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	99	0930F004	PCB_REG	IB
5	LCS	1	0930F005	PCB_REG	KWG1509174-3 LCS
6	MB	2	0930F006	PCB_REG	KWG1509174-4 MB
7	SMPL	3	0930F007	PCB_REG	K1510324-001
8	SMPL	4	0930F008	PCB_REG	K1510448-004
9	SMPL	5	0930F009	PCB_REG	K1510448-005 - 10X
10	SMPL	6	0930F010	PCB_REG	K1510448-006] see 5X
11	SMPL	7	0930F011	PCB_REG	K1510507-001
12	MS	8	0930F012	PCB_REG	K1510507-001 MS
13	DMS	9	0930F013	PCB_REG	K1510507-001 DMS
14	CCV	95	0930F014	PCB_REG	1660 @ 500ppb PCB6-74E
15	IB	99	0930F015	PCB_REG	IB

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F003.D	**Date Acquired:**	09/30/2015 08:52
Lab ID:	KWG1509500-2	**Date Quantitated:**	10/02/2015 10:40
RunType:	CCV	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F003.D	**Date Acquired:**	09/30/2015 08:52
Lab ID:	KWG1509500-2	**Date Quantitated:**	10/02/2015 10:40
RunType:	CCV	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:36
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D			**Vial:**	95
Acqu Date:	09/30/2015 08:52	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.87	4.33	9719886	4038667	54.91	51.35			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.25	13.61	8731530	4304970	55.22	52.28			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	478.68	456.94			
Aroclor 1016 {1}	4.23	4.61	1785432m	873121	497.48	475.01			
Aroclor 1016 {2}	4.74	4.95	1495545m	1139717	499.17	468.14			
Aroclor 1016 {3}	4.93	5.58	4719469m	1332285	477.14	444.21			
Aroclor 1016 {4}	5.20	5.91	2300789m	990095	463.75	451.07			
Aroclor 1016 {5}	5.49	6.11	2359667m	962126	455.85	446.26			
Aroclor 1260			0	0	513.99	511.03			
Aroclor 1260 {1}	7.07	7.82	4690955	1077916	476.21	488.65			
Aroclor 1260 {2}	8.08	9.26	4204620	1937337	518.20	512.54			
Aroclor 1260 {3}	8.64	9.71	4260575	1857185	517.63	514.62			
Aroclor 1260 {4}	9.10	10.38	9736704	4438413	517.95	514.03			
Aroclor 1260 {5}	9.88	11.02	7660575	2933968	539.98	525.30			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Report Date: 02-Oct-2015 10:40

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D
Inj Date : 30-SEP-2015 08:52
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.874	4.334	9719886	4038667	54.9	51.3		100.00
Aroclor 1016	4.234	4.614	1785432	873121	497	475	80.00- 120.00	100.00(M)
	4.737	4.948	1495545	1139717	499	468	63.77- 95.65	83.76(M)
	4.931	5.584	4719469	1332285	477	444	194.05- 291.08	408.27(M)
	5.201	5.914	2300789	990095	464	451	100.33- 150.49	128.86(M)
	5.494	6.111	2359667	962126	456	446	105.01- 157.51	132.16(M)
			Average of Peak Amounts =		479	457		
Aroclor 1260	7.067	7.824	4690955	1077916	476	489	80.00- 120.00	100.00
	8.084	9.258	4204620	1937337	518	513	69.66- 104.50	89.63
	8.637	9.708	4260575	1857185	518	515	70.04- 105.07	90.83
	9.101	10.384	9736704	4438413	518	514	163.82- 245.72	207.56
	9.884	11.018	7660575	2933968	540	525	134.64- 201.96	163.31
			Average of Peak Amounts =		514	511		
Decachlorobiphenyl	12.251	13.611	8731530	4304970	55.2	52.3		100.00

QC Flag Legend

M - Compound response manually integrated.

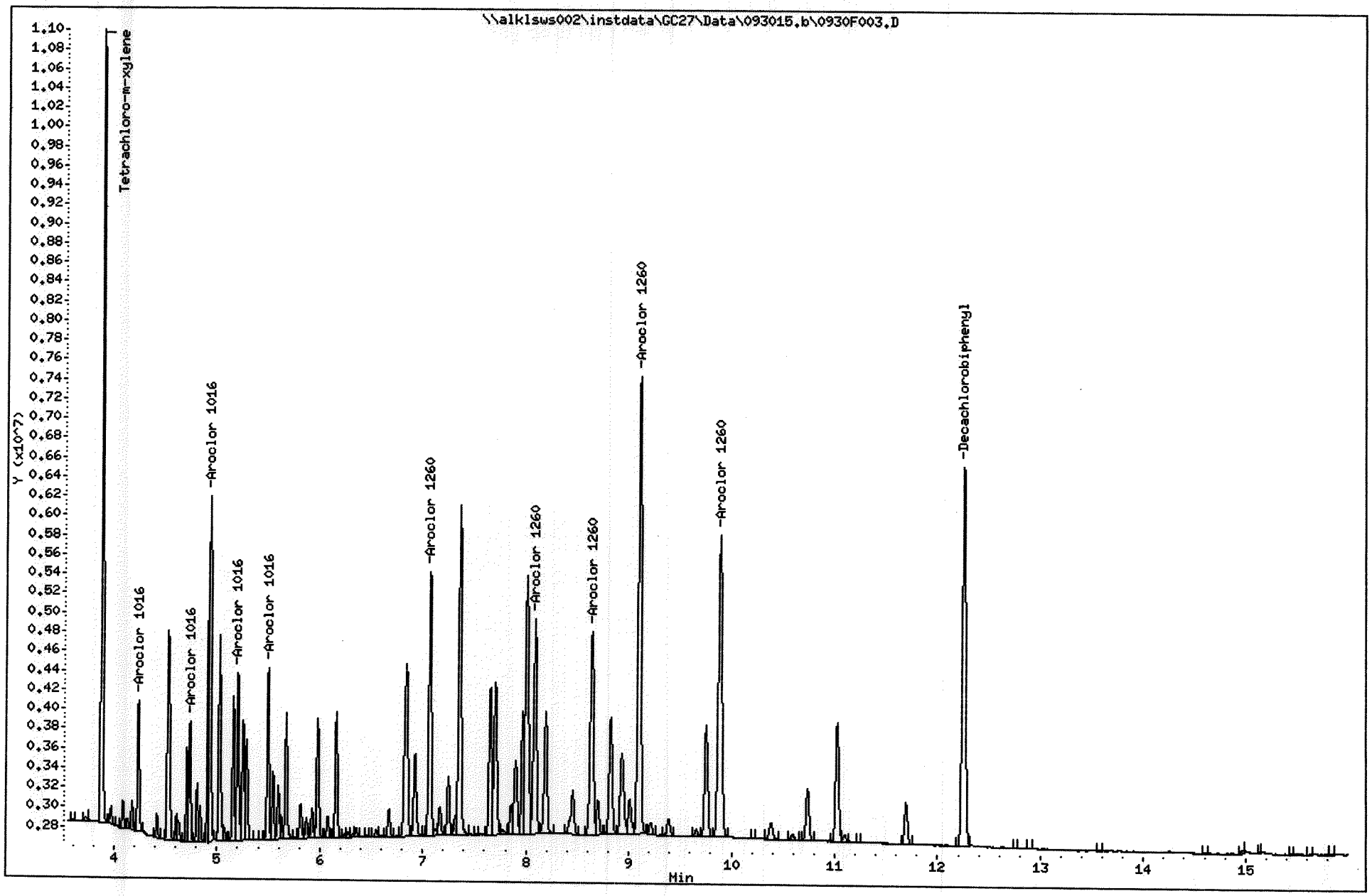
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Date : 30-SEP-2015 08:52
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

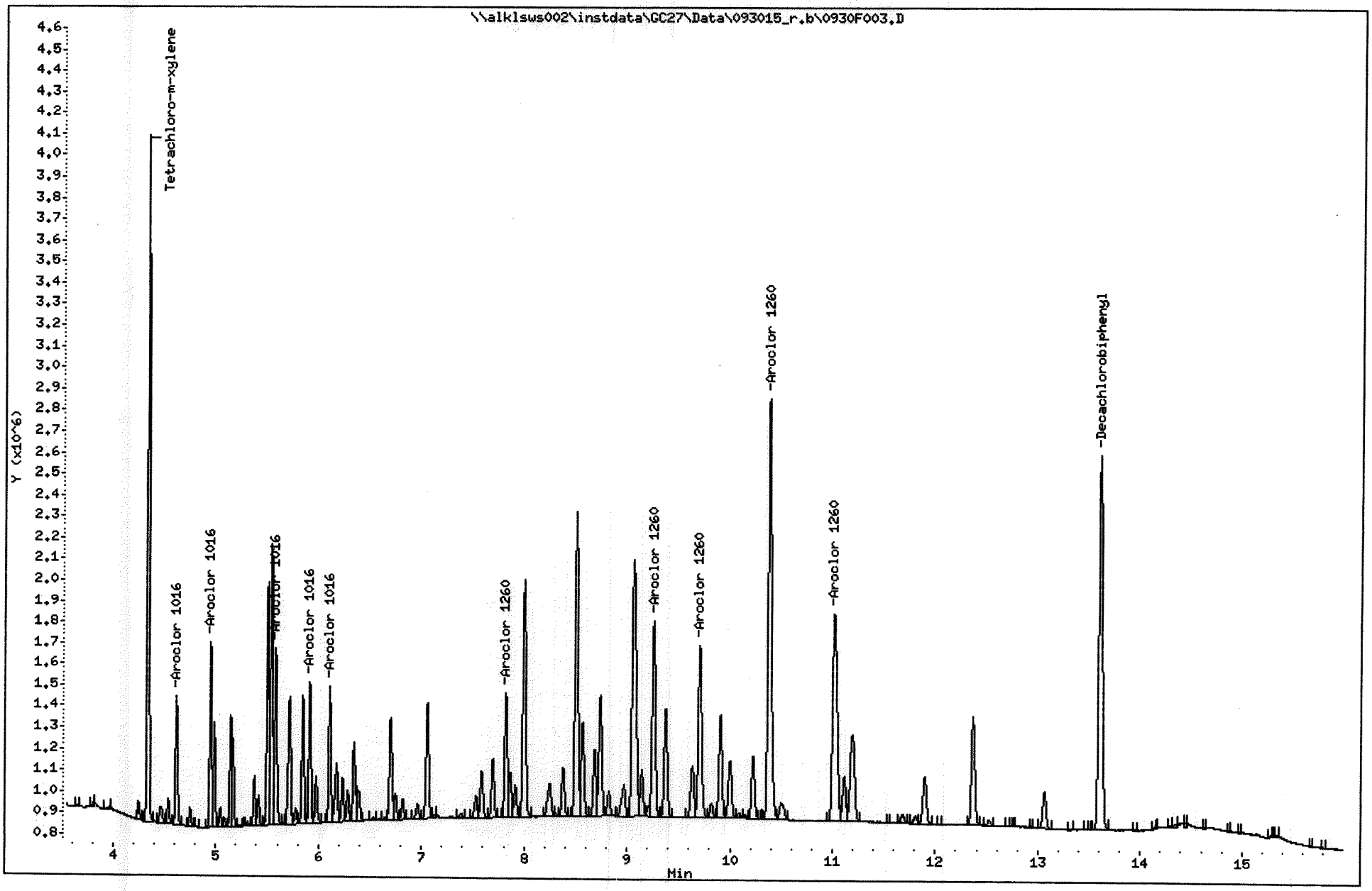


Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F003.D
Date : 30-SEP-2015 08:52
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F004.D	**Date Acquired:**	09/30/2015 09:16
Lab ID:	KWG1509500-1	**Date Quantitated:**	10/02/2015 10:40
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:39
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F004.D	**Date Acquired:**	09/30/2015 09:16
Lab ID:	KWG1509500-1	**Date Quantitated:**	10/02/2015 10:40
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:46:42
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D			**Vial:**	99
Acqu Date:	09/30/2015 09:16	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.27	13.61	17074	3211	0.1080	0.0390			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D			**Vial:**	99
Acqu Date:	09/30/2015 09:16	**Quant Date:**	10/02/2015 10:40	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0	0.0000	0.0000			
Aroclor 1248 {2}			0	0	0.0000	0.0000			
Aroclor 1248 {3}			0	0	0.0000	0.0000			
Aroclor 1248 {4}			0	0	0.0000	0.0000			
Aroclor 1248 {5}			0	0	0.0000	0.0000			
Aroclor 1254			0	0	2.31	0.0000			
Aroclor 1254 {1}	6.24		8470	0	2.18	0.0000			
Aroclor 1254 {2}			0	0	0.0000	0.0000			
Aroclor 1254 {3}	6.83		71562	0	4.89	0.0000			
Aroclor 1254 {4}	7.16		8515	0	0.8900	0.0000			
Aroclor 1254 {5}	7.82		8054	0	1.27	0.0000			
Aroclors, Total			61169	0	4.65	0.0000	J	J	
Aroclor 1260			0	0	1.27	0.0000			
Aroclor 1260 {1}	7.07		19266	0	1.96	0.0000			
Aroclor 1260 {2}			0	0	0.0000	0.0000			
Aroclor 1260 {3}	8.61		12109	0	1.47	0.0000			
Aroclor 1260 {4}	9.11		20387	0	1.08	0.0000			
Aroclor 1260 {5}	9.88		8238	0	0.5810	0.0000			
Aroclor 1262			0	0	0.7953	0.0000			
Aroclor 1262 {1}			0	0	0.0000	0.0000			
Aroclor 1262 {2}	8.61		12109	0	1.03	0.0000			
Aroclor 1262 {3}	9.11		20387	0	0.8830	0.0000			
Aroclor 1262 {4}	9.88		8238	0	0.4750	0.0000			
Aroclor 1262 {5}			0	0	0.0000	0.0000			
Aroclor 1268			0	0	0.2767	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}	9.88		8238	0	0.3230	0.0000			
Aroclor 1268 {3}	10.38		7941	0	0.3610	0.0000			
Aroclor 1268 {4}	11.69		9144	0	0.1460	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Report Date: 02-Oct-2015 10:40

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D
Inj Date : 30-SEP-2015 09:16
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.238	0.000	8470	0	2.18	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	1017.66-1526.49	0.00(T)
	6.825	0.000	71562	0	4.89	0.000	9646.23-14469.35	844.89(T)
	7.158	0.000	8515	0	0.890	0.000	1126.72-1690.08	100.53(T)
	7.818	0.000	8054	0	1.27	0.000	281.12- 421.67	95.09(T)
			Average of Peak Amounts =		2.31	0.000		
Aroclor 1260	7.068	0.000	19266	0	1.96	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	69.66- 104.50	0.00(T)
	8.611	0.000	12109	0	1.47	0.000	70.04- 105.07	62.85(T)
	9.105	0.000	20387	0	1.08	0.000	163.82- 245.72	105.82(T)
	9.881	0.000	8238	0	0.581	0.000	134.64- 201.96	42.76(T)
			Average of Peak Amounts =		1.27	0.000		
Aroclor 1262	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	8.611	0.000	12109	0	1.03	0.000	81.49- 122.24	0.00(T)
	9.105	0.000	20387	0	0.883	0.000	185.52- 278.29	0.00(T)
	9.881	0.000	8238	0	0.475	0.000	145.56- 218.35	0.00(T)
	0.000	0.000	0	0	0.000	0.000	49.79- 74.69	0.00(T)
			Average of Peak Amounts =		0.796	0.000		
Aroclor 1268	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	9.881	0.000	8238	0	0.323	0.000	261.97- 392.95	0.00(T)
	10.378	0.000	7941	0	0.361	0.000	12.86- 19.30	0.00(T)
	11.685	0.000	9144	0	0.146	0.000	30.73- 46.09	0.00(T)
			Average of Peak Amounts =		0.277	0.000		
Decachlorobiphenyl	12.265	13.605	17074	3211	0.108	0.0390		100.00
Aroclors, Total	0.000	0.000	61169	0	4.65	0.000		0.00

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Report Date: 02-Oct-2015 10:40

QC Flag Legend

T - Target compound detected outside RT window.

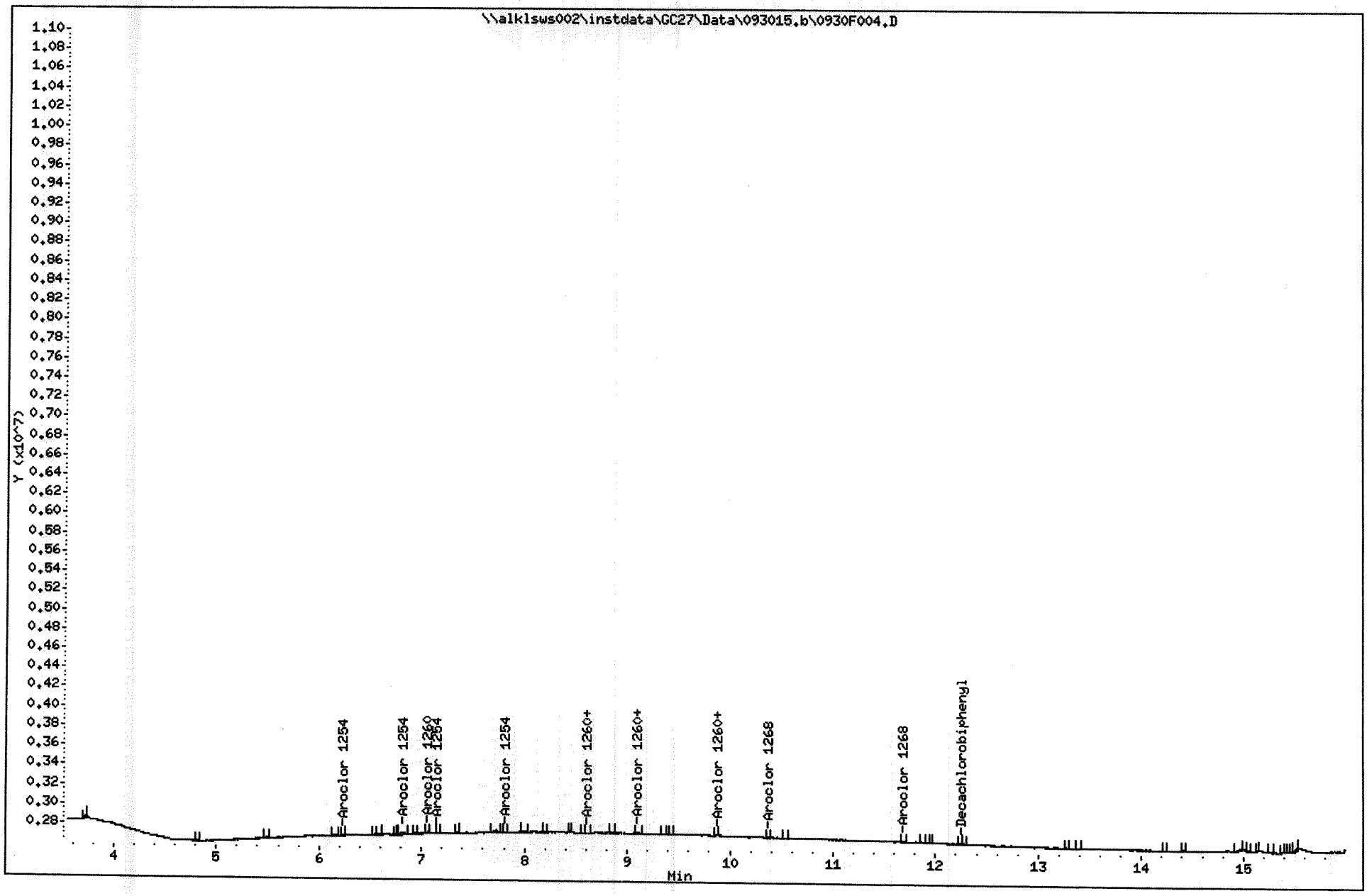
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F004.D
Date : 30-SEP-2015 09:16
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SHURRAY

Column phase: DB-35MS

Column diameter: 0.32



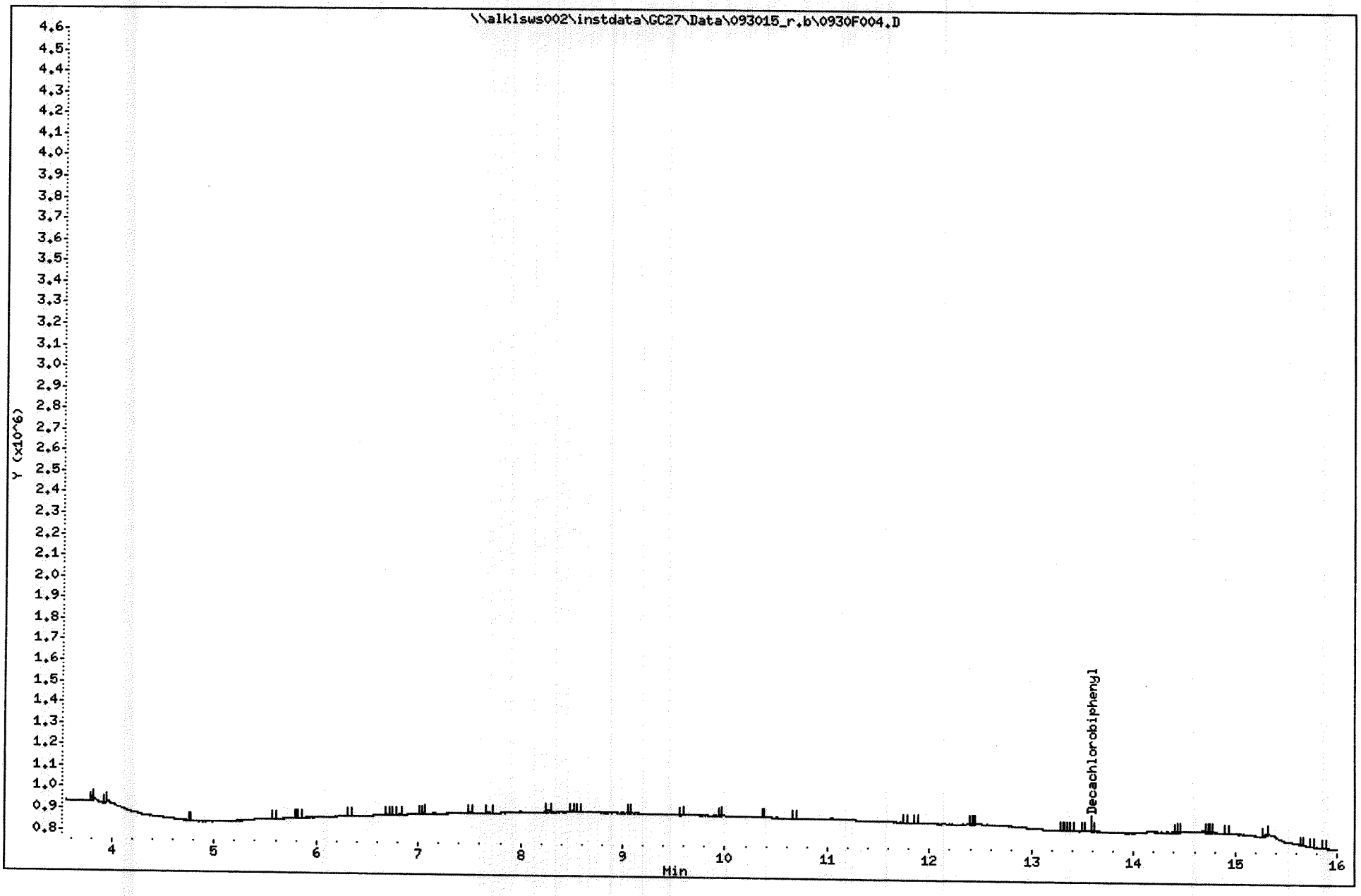
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F004.D
Date : 30-SEP-2015 09:16
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

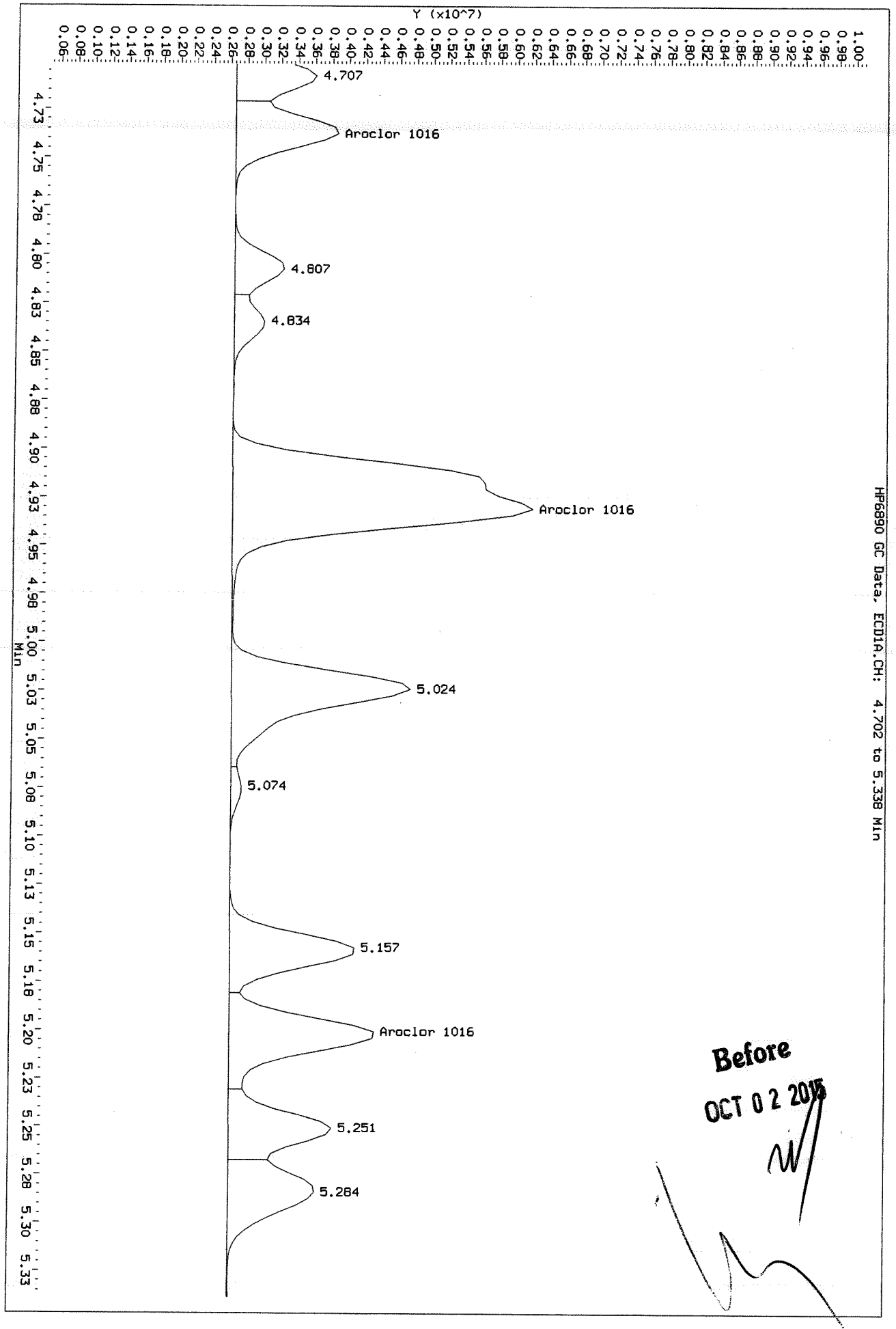
Column phase: DB-XLB

Column diameter: 0.32



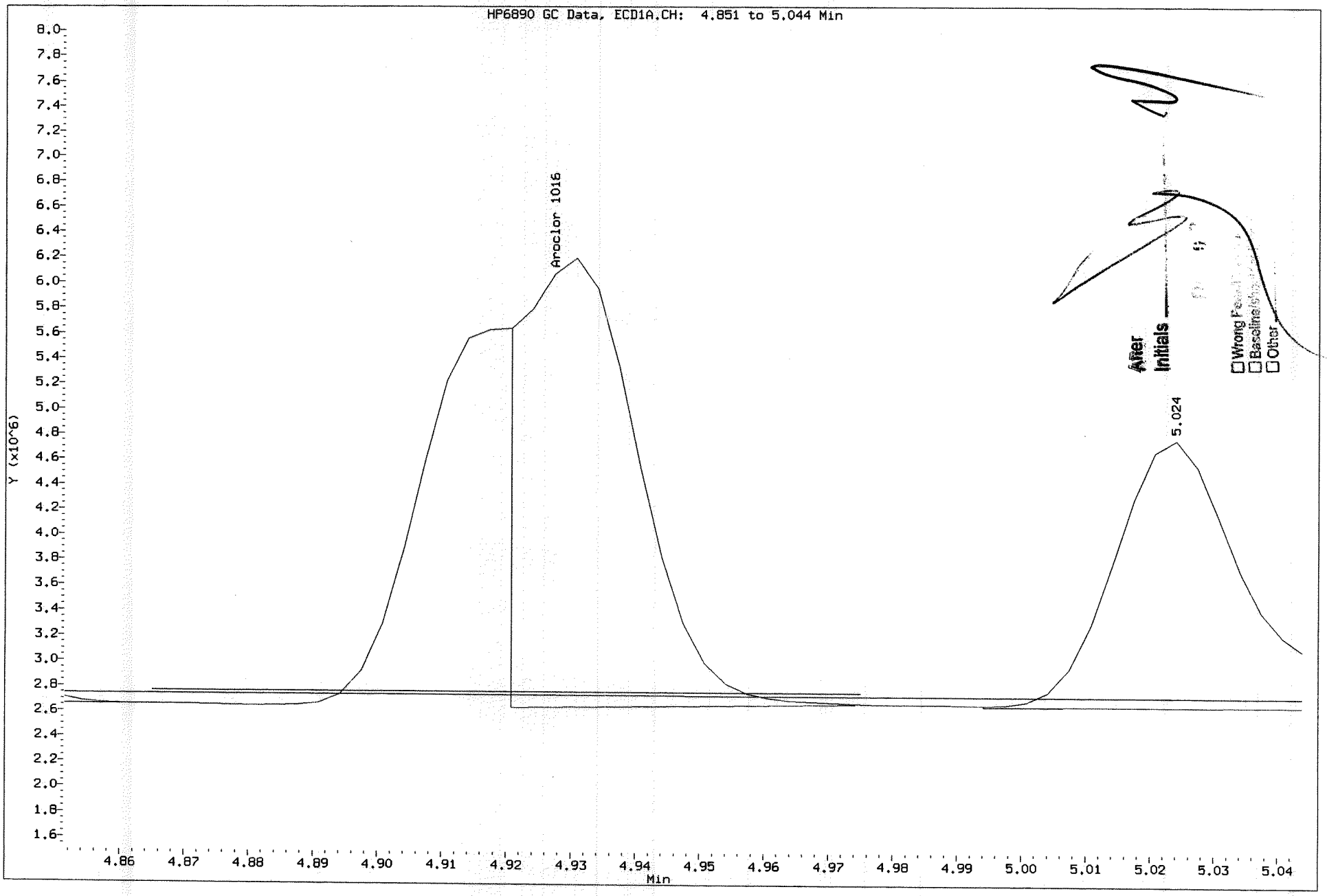
Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Injection Date: 30-SEP-2015 08:52
Instrument: GC27:1
Client Sample ID:

HP6890 GC Data, ECD1A.CH: 4.702 to 5.338 Min



Before
OCT 0 2 2015

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F003.D
Injection Date: 30-SEP-2015 08:52
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F014.D	**Date Acquired:**	09/30/2015 13:13
Lab ID:	KWG1509500-4	**Date Quantitated:**	10/02/2015 10:30
RunType:	CCV	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	DR

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:07
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F014.D	**Date Acquired:**	09/30/2015 13:13
Lab ID:	KWG1509500-4	**Date Quantitated:**	10/02/2015 10:30
RunType:	CCV	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	NA

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:10
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F014.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D			**Vial:**	95
Acqu Date:	09/30/2015 13:13	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9270554	4127253	52.37	52.47			NA
				%Recovery =	NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.26	13.62	8135630	4209943	51.45	51.12			NA
				%Recovery =	NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	441.95	451.05			
Aroclor 1016 {1}	4.24	4.62	1704705	844702	474.98	459.55			
Aroclor 1016 {2}	4.74	4.95	1358853	1134451	453.54	465.97			
Aroclor 1016 {3}	4.94	5.59	4135032	1302826	418.06	434.39			
Aroclor 1016 {4}	5.21	5.92	2137887	980585	430.91	446.73			
Aroclor 1016 {5}	5.50	6.12	2237585	967157	432.27	448.59			
Aroclor 1260			0	0	482.93	498.58			
Aroclor 1260 {1}	7.08	7.83	4448746	1050439	451.62	476.20			
Aroclor 1260 {2}	8.09	9.27	3873970	1889157	477.45	499.80			
Aroclor 1260 {3}	8.65	9.72	3895120	1797911	473.23	498.20			
Aroclor 1260 {4}	9.11	10.39	9109653	4332897	484.59	501.81			
Aroclor 1260 {5}	9.90	11.03	7487152	2886886	527.76	516.87			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D
Inj Date : 30-SEP-2015 13:13
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

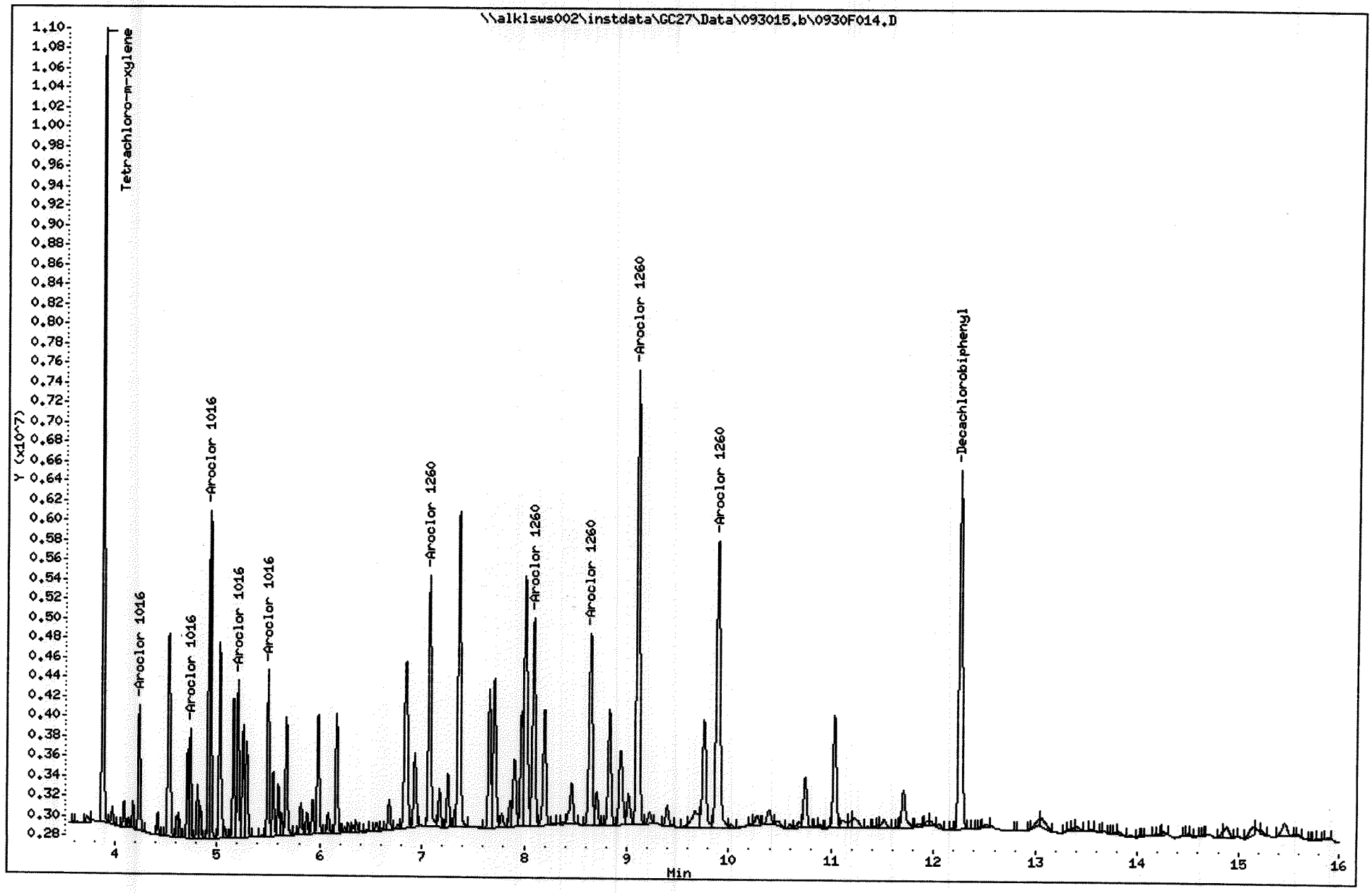
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.340	9270554	4127253	52.4	52.5		100.00
Aroclor 1016	4.236	4.620	1704705	844702	475	460	80.00- 120.00	100.00
	4.743	4.953	1358853	1134451	454	466	63.77- 95.65	79.71
	4.936	5.590	4135032	1302826	418	434	194.05- 291.08	242.57
	5.209	5.920	2137887	980585	431	447	100.33- 150.49	125.41
	5.499	6.116	2237585	967157	432	449	105.01- 157.51	131.26
		Average of Peak Amounts =			442	451		
Aroclor 1260	7.076	7.830	4448746	1050439	452	476	80.00- 120.00	100.00
	8.093	9.270	3873970	1889157	477	500	69.66- 104.50	87.08
	8.646	9.716	3895120	1797911	473	498	70.04- 105.07	87.56
	9.109	10.393	9109653	4332897	485	502	163.82- 245.72	204.77
	9.896	11.026	7487152	2886886	528	517	134.64- 201.96	168.30
		Average of Peak Amounts =			483	499		
Decachlorobiphenyl	12.263	13.623	8135630	4209943	51.4	51.1		100.00

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F014.D
Date : 30-SEP-2015 13:13
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

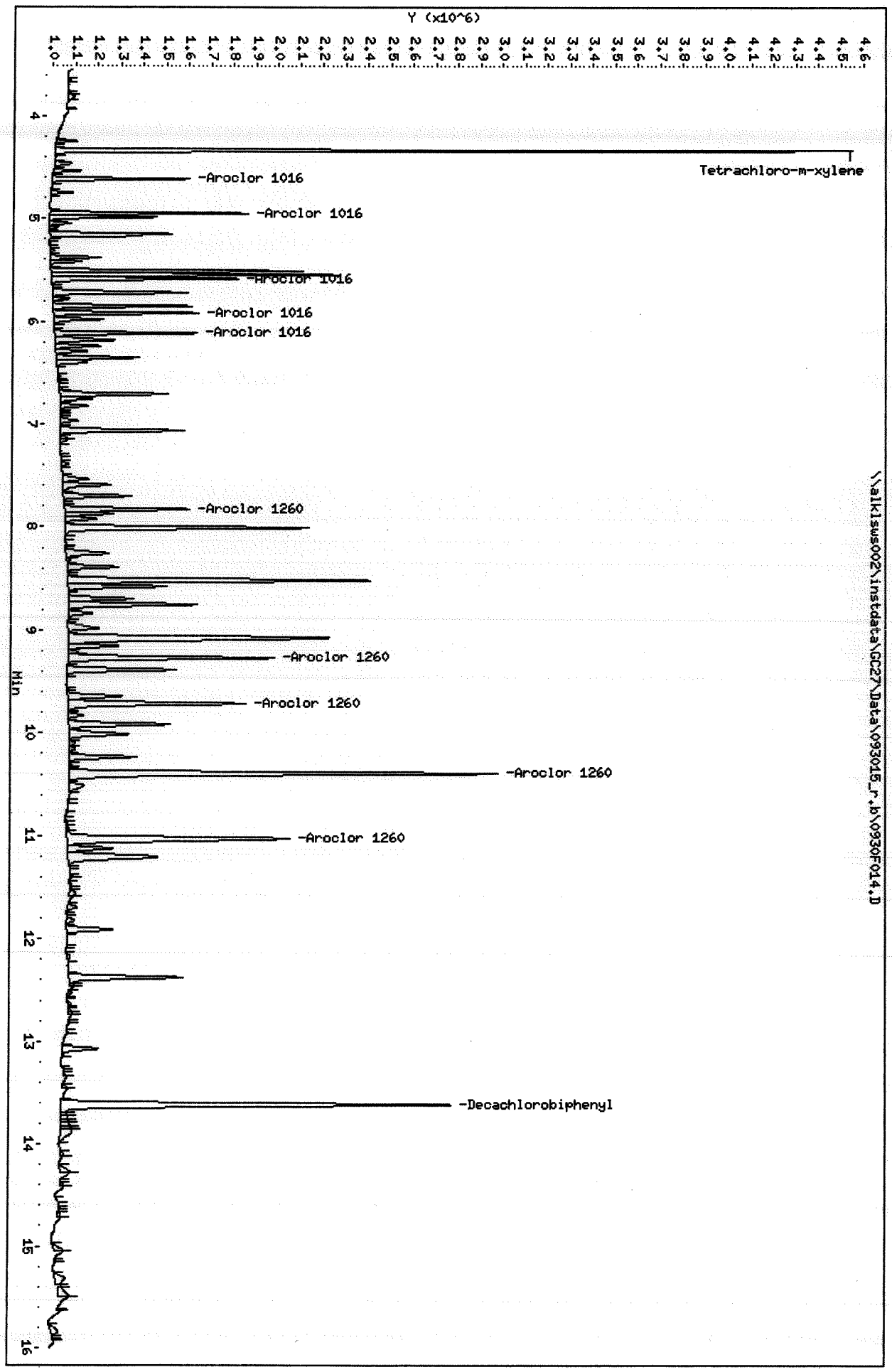
Operator: SMURRAY
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F014.D
Date : 30-SEP-2015 13:13
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

Instrument: GC27.i
Operator: SMURRAY
Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\0930F015.D
Lab ID: KWG1509500-3
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 09/30/2015 13:37
Date Quantitated: 10/02/2015 10:30
Batch ID: KWG1509500
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:13
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015_R.B\0930F015.D	**Date Acquired:**	09/30/2015 13:37
Lab ID:	KWG1509500-3	**Date Quantitated:**	10/02/2015 10:30
RunType:	IB	**Batch ID:**	KWG1509500
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	JCN

Primary Review: _____

Secondary Review: _____

Printed: 10/02/2015 10:45:16
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\093015.B\0930F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D			**Vial:**	99
Acqu Date:	09/30/2015 13:37	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	10/02/2015

Analysis Lot:	KWG1509500	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\093015.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0d	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	0.00	13.61	0d	6720		0.0820			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0d	0d	0.0000	0.0000			
Aroclor 1016 {2}			0d	0d	0.0000	0.0000			
Aroclor 1016 {3}			0d	0d	0.0000	0.0000			
Aroclor 1016 {4}			0d	0d	0.0000	0.0000			
Aroclor 1016 {5}			0d	0d	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0d	0.0000	0.0000			
Aroclor 1232 {2}			0	0d	0.0000	0.0000			
Aroclor 1232 {3}			0	0d	0.0000	0.0000			
Aroclor 1232 {4}			0	0d	0.0000	0.0000			
Aroclor 1232 {5}			0	0d	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\093015.B\0930F015.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D			**Vial:**	99
Acqu Date:	09/30/2015 13:37	**Quant Date:**	10/02/2015 10:30	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509500-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0d	0d	0.0000	0.0000			
Aroclor 1242 {2}			0d	0d	0.0000	0.0000			
Aroclor 1242 {3}			0d	0d	0.0000	0.0000			
Aroclor 1242 {4}			0d	0d	0.0000	0.0000			
Aroclor 1242 {5}			0d	0d	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0d	0.0000	0.0000			
Aroclor 1248 {2}			0d	0d	0.0000	0.0000			
Aroclor 1248 {3}			0d	0d	0.0000	0.0000			
Aroclor 1248 {4}			0d	0d	0.0000	0.0000			
Aroclor 1248 {5}			0d	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0d	0.0000	0.0000			
Aroclor 1254 {2}			0d	0d	0.0000	0.0000			
Aroclor 1254 {3}			0d	0d	0.0000	0.0000			
Aroclor 1254 {4}			0d	0d	0.0000	0.0000			
Aroclor 1254 {5}			0d	0d	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0d	0.0000	0.0000			
Aroclor 1260 {2}			0d	0d	0.0000	0.0000			
Aroclor 1260 {3}			0d	0d	0.0000	0.0000			
Aroclor 1260 {4}			0d	0d	0.0000	0.0000			
Aroclor 1260 {5}			0d	0d	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0d	0d	0.0000	0.0000			
Aroclor 1262 {2}			0d	0d	0.0000	0.0000			
Aroclor 1262 {3}			0d	0d	0.0000	0.0000			
Aroclor 1262 {4}			0d	0d	0.0000	0.0000			
Aroclor 1262 {5}			0d	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0d	0	0.0000	0.0000			
Aroclor 1268 {2}			0d	0	0.0000	0.0000			
Aroclor 1268 {3}			0d	0	0.0000	0.0000			
Aroclor 1268 {4}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Report Date: 02-Oct-2015 10:30

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D
Inj Date : 30-SEP-2015 13:37
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 07:58
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\093015.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\093015_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

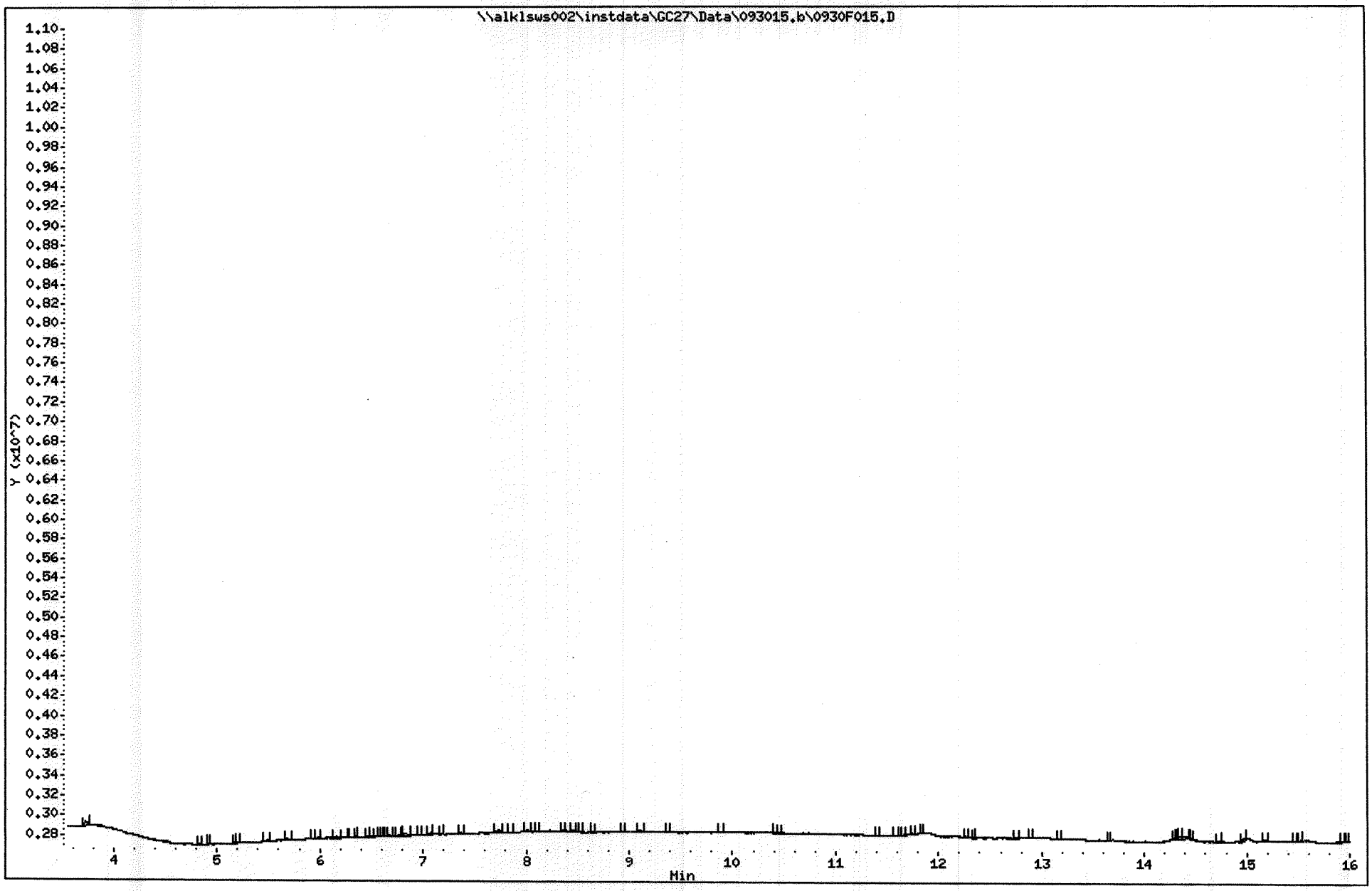
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	0.000	13.612	0	6720	0.000	0.0816		

Data File: \\alklsws002\instdata\GC27\Data\093015.b\0930F015.D
Date : 30-SEP-2015 13:37
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-35MS



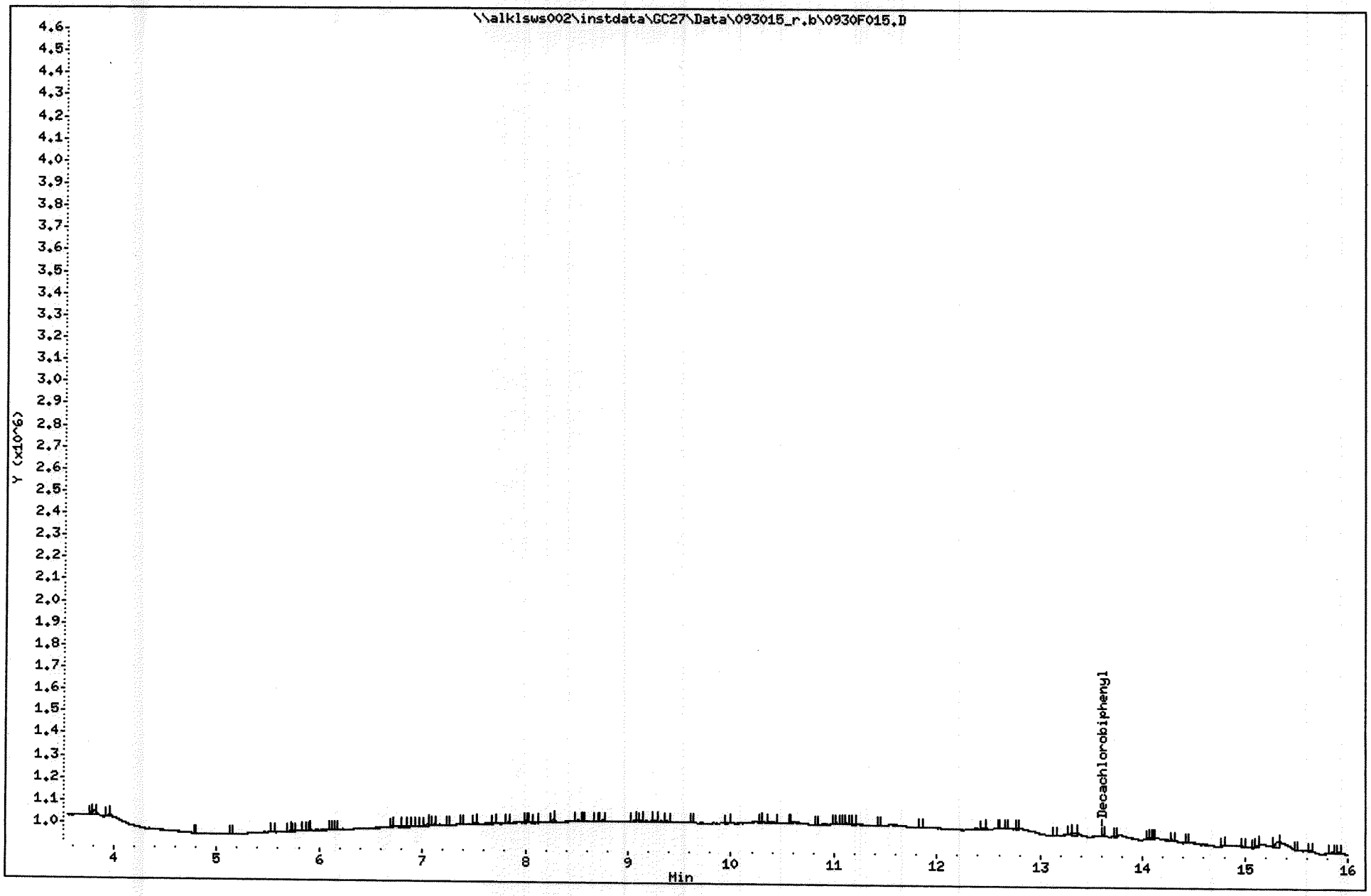
Data File: \\alklsws002\instdata\GC27\Data\093015_r.b\0930F015.D
Date : 30-SEP-2015 13:37
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\100115.S
Comment: PCB Aroclors by EPA 8082A
Operator: SMURRAY
Data Path: C:\GC27\DATA\100115\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	IB	100	1001F001	PCB_REG	PRIMER
2	IB	100	1001F002	PCB_REG	PRIMER
3	CCV	95	1001F003	PCB_REG	1660 @ 500ppb PCB6-74E
4	IB	100	1001F004	PCB_REG	IB
5	SMPL	1	1001F005	PCB_REG	K1510448-006 5X
6	SMPL	2	1001F006	PCB_REG	K1510507-001 5X
7	CCV	95	1001F007	PCB_REG	1660 @ 500ppb PCB6-74E
8	IB	100	1001F008	PCB_REG	IB
9	IB	100	1001F009	PCB_REG	PRIMER
10	IB	100	1001F010	PCB_REG	PRIMER
11	SMPL	3	1001F011	PCB_REG	T1501618-001
12	MS	4	1001F012	PCB_REG	T1501618-001MS
13	DMS	5	1001F013	PCB_REG	T1501618-001DMS
14	LCS	6	1001F014	PCB_REG	KWG1509352-LCS
15	MB	7	1001F015	PCB_REG	KWG1509352-MB
16	CCV	95	1001F016	PCB_REG	1660 @ 500ppb PCB6-74E
17	IB	100	1001F017	PCB_REG	IB

CN: 13624
RUN: 5021

Last Modified: Thu Oct 01 14:57:44 2015

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F003.D
Lab ID: KWG1509486-2
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 10/01/2015 10:10
Date Quantitated: 10/01/2015 18:21
Batch ID: KWG1509486
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:06
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F003.D	**Date Acquired:**	10/01/2015 10:10
Lab ID:	KWG1509486-2	**Date Quantitated:**	10/01/2015 18:21
RunType:	CCV	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:09
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D			**Vial:**	95
Acqu Date:	10/01/2015 10:10	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	9670855	3996154	54.63	50.81			NA
				%Recovery =	NA	NA	Limits =	20-123	
Decachlorobiphenyl	12.25	13.61	8718067	4306330	55.13	52.29			NA
				%Recovery =	NA	NA	Limits =	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	478.57	454.08			
Aroclor 1016 {1}	4.24	4.62	1865899m	873868	519.90	475.42			
Aroclor 1016 {2}	4.74	4.95	1456739m	1122372	486.21	461.01			
Aroclor 1016 {3}	4.93	5.58	4564374m	1308706	461.46	436.35			
Aroclor 1016 {4}	5.20	5.92	2291599m	985704	461.90	449.07			
Aroclor 1016 {5}	5.50	6.11	2398600m	967123	463.37	448.57			
Aroclor 1260			0	0	512.38	511.33			
Aroclor 1260 {1}	7.07	7.83	4681208	1081360	475.22	490.22			
Aroclor 1260 {2}	8.09	9.26	4181945	1946552	515.41	514.98			
Aroclor 1260 {3}	8.64	9.71	4236883	1845654	514.75	511.43			
Aroclor 1260 {4}	9.10	10.39	9708590	4443884	516.45	514.67			
Aroclor 1260 {5}	9.89	11.02	7661918	2934236	540.08	525.35			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Report Date: 01-Oct-2015 18:21

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D
Inj Date : 01-OCT-2015 10:10
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.875	4.335	9670855	3996154	54.6	50.8		100.00
Aroclor 1016	4.235	4.615	1865899	873868	520	475	80.00- 120.00	100.00(M)
	4.735	4.949	1456739	1122372	486	461	59.94- 89.92	78.07(M)
	4.932	5.582	4564374	1308706	461	436	305.90- 458.85	391.26(M)
	5.202	5.915	2291599	985704	462	449	95.68- 143.52	122.81(M)
	5.495	6.109	2398600	967123	463	449	100.22- 150.33	128.55(M)
			Average of Peak Amounts =		478	454		
Aroclor 1260	7.069	7.825	4681208	1081360	475	490	80.00- 120.00	100.00
	8.085	9.259	4181945	1946552	515	515	71.90- 107.85	89.33
	8.639	9.705	4236883	1845654	515	511	73.13- 109.69	90.51
	9.102	10.385	9708590	4443884	516	515	172.24- 258.37	207.39
	9.885	11.019	7661918	2934236	540	525	133.82- 200.73	163.67
			Average of Peak Amounts =		512	511		
Decachlorobiphenyl	12.252	13.612	8718067	4306330	55.1	52.3		100.00

QC Flag Legend

M - Compound response manually integrated.

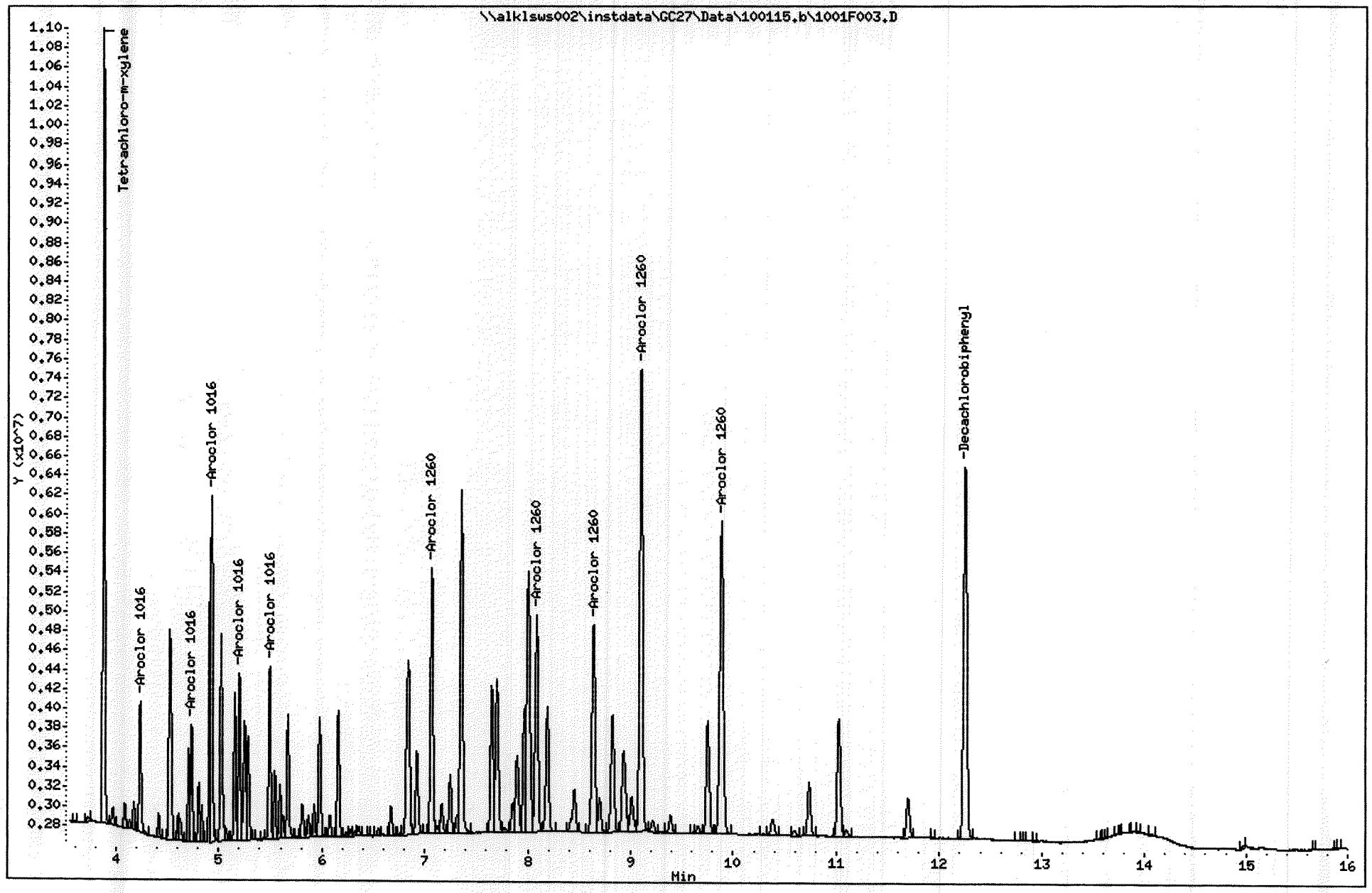
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Date : 01-OCT-2015 10:10
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

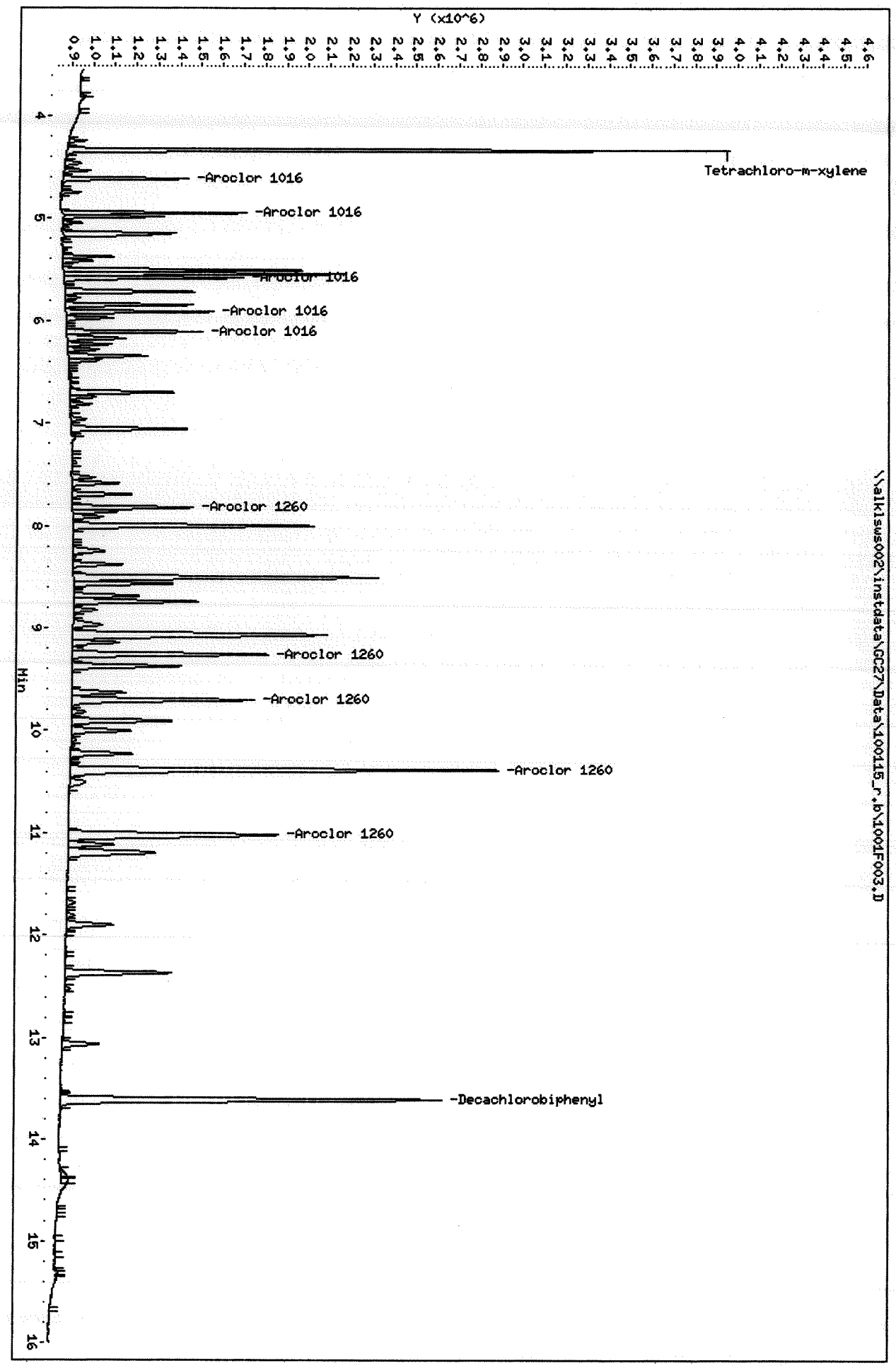
Column diameter: 0.32



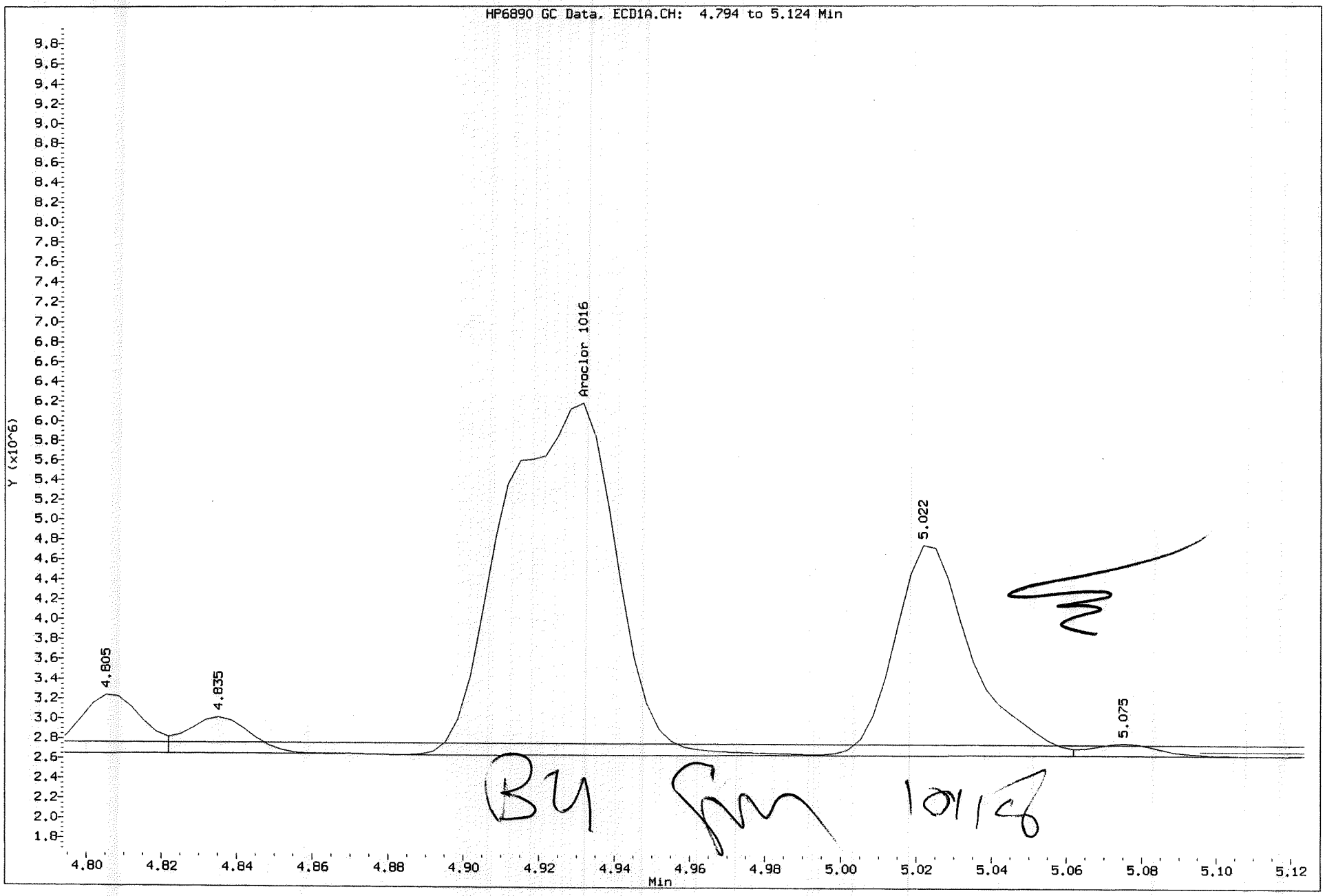
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F003.D
Date : 01-OCT-2015 10:10
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i
Operator: SHURRAY
Column diameter: 0.32

Column phase: DB-XLB

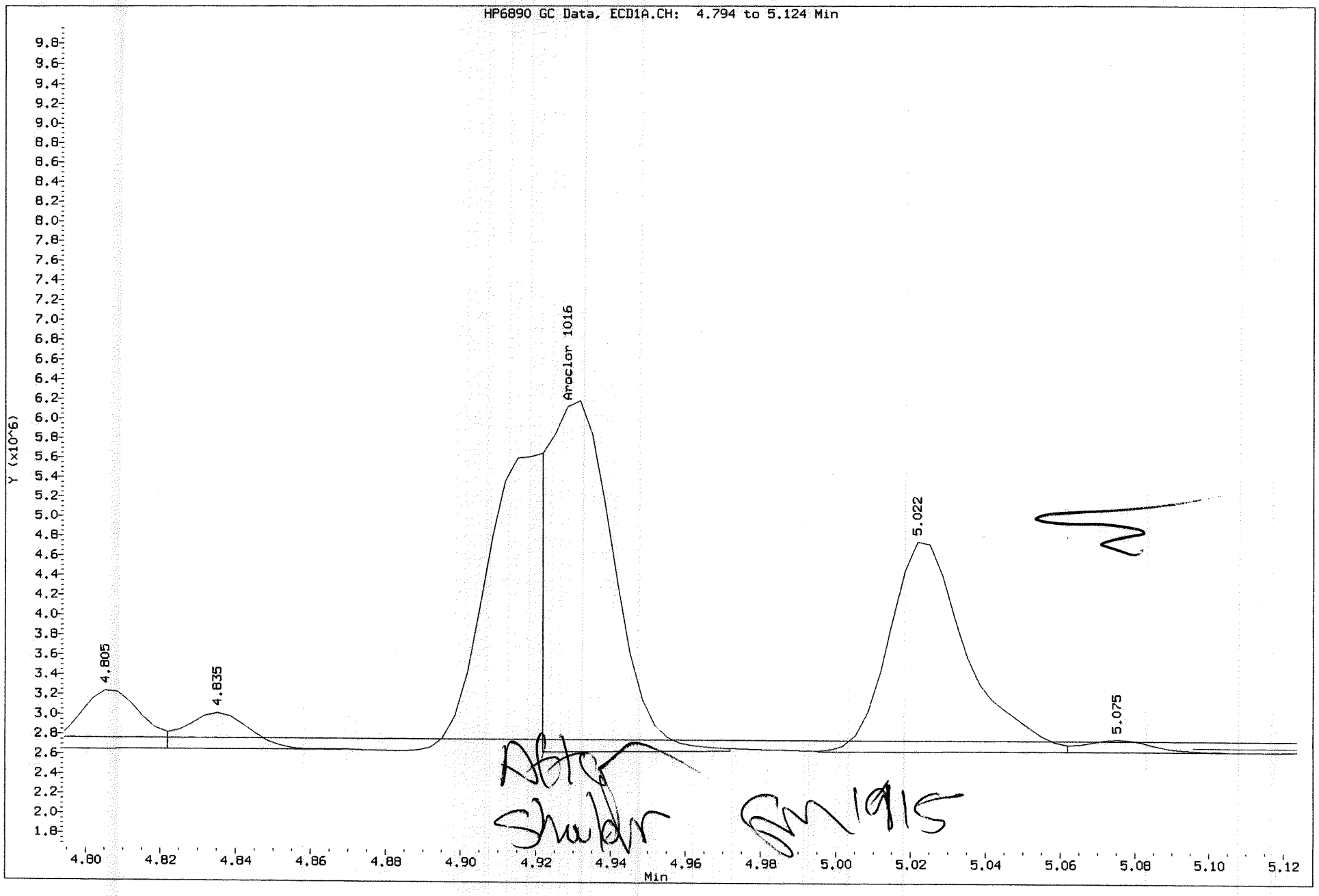


Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Injection Date: 01-OCT-2015 10:10
Instrument: GC27.i
Client Sample ID:



BY SM 10/1/15

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F003.D
Injection Date: 01-OCT-2015 10:10
Instrument: GC27.1
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F004.D
Lab ID: KWG1509486-1
RunType: IB
Matrix: MARINE SEDIMENT

Date Acquired: 10/01/2015 10:34
Date Quantitated: 10/01/2015 18:21
Batch ID: KWG1509486
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:12
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F004.D	**Date Acquired:**	10/01/2015 10:34
Lab ID:	KWG1509486-1	**Date Quantitated:**	10/01/2015 18:21
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:15
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D			**Vial:**	100
Acqu Date:	10/01/2015 10:34	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	20-123	
Decachlorobiphenyl	12.25		24511	0	0.1550	0.0000			NA
			%Recovery =		NA	NA	Limits =	49-133	

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	2.91	0.0000			
Aroclor 1016 {1}	4.25		9961	0	2.78	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}	4.92		8097	0	0.8190	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}	5.48		26659	0	5.15	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	3.31	0.0000			
Aroclor 1232 {1}	4.05		9183	0	6.28	0.0000			
Aroclor 1232 {2}	4.25		9961	0	2.26	0.0000			
Aroclor 1232 {3}	4.51		11467	0	2.94	0.0000			
Aroclor 1232 {4}	4.92		8097	0	1.77	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	3.61	2.55			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D			**Vial:**	100
Acqu Date:	10/01/2015 10:34	**Quant Date:**	10/01/2015 18:21	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1242 {1}	4.51		11467	0	1.92	0.0000			
Aroclor 1242 {2}	4.92	5.55	8097	5751	1.05	1.75			
Aroclor 1242 {3}		5.69	0	2648	0.0000	1.51			
Aroclor 1242 {4}	5.48	5.91	26659	3818	6.34	2.38			
Aroclor 1242 {5}	5.98	6.81	25369	9193	5.13	4.55			
Aroclor 1248			0	0	4.28	2.18			
Aroclor 1248 {1}	4.92		8097	0	1.73	0.0000			
Aroclor 1248 {2}	5.26	5.52	25624	5683	5.88	2.20			
Aroclor 1248 {3}	5.67	5.91	33660	3818	5.24	1.28			
Aroclor 1248 {4}		6.35	0	4325	0.0000	1.80			
Aroclor 1248 {5}		7.05	0	14601	0.0000	3.42			
Aroclor 1254			0	0	0.0000	3.66			
Aroclor 1254 {1}		6.70	0	11556	0.0000	3.15			
Aroclor 1254 {2}		7.05	0	14601	0.0000	2.52			
Aroclor 1254 {3}			0	0	0.0000	0.0000			
Aroclor 1254 {4}		8.00	0	12067	0.0000	5.33			
Aroclor 1254 {5}			0	0	0.0000	0.0000			
Aroclor 1260			0	0	1.67	0.0000			
Aroclor 1260 {1}	7.07		18016	0	1.83	0.0000			
Aroclor 1260 {2}	8.09		20674	0	2.55	0.0000			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}			0	0	0.0000	0.0000			
Aroclor 1260 {5}	9.88		9168	0	0.6460	0.0000			
Aroclor 1262			0	0	0.0000	0.7587			
Aroclor 1262 {1}		9.26	0	2588	0.0000	0.4470			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}		10.38	0	7073	0.0000	0.7330			
Aroclor 1262 {4}			0	0	0.0000	0.0000			
Aroclor 1262 {5}		12.37	0	3990	0.0000	1.10			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Report Date: 01-Oct-2015 18:21

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D
Inj Date : 01-OCT-2015 10:34
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.254	0.000	9961	0	2.78	0.000	80.00- 120.00	100.00(T)
	0.000	0.000	0	0	0.000	0.000	59.94- 89.92	0.00(T)
	4.924	0.000	8097	0	0.819	0.000	305.90- 458.85	81.29(T)
	0.000	0.000	0	0	0.000	0.000	95.68- 143.52	0.00(T)
	5.484	0.000	26659	0	5.15	0.000	100.22- 150.33	267.63(T)
		Average of Peak Amounts =			2.92	0.000		
Aroclor 1232	4.051	0.000	9183	0	6.28	0.000	80.00- 120.00	100.00(T)
	4.254	0.000	9961	0	2.25	0.000	428.79- 643.19	108.47(T)
	4.511	0.000	11467	0	2.94	0.000	883.29-1324.94	124.87(T)
	4.924	0.000	8097	0	1.77	0.000	1638.56-2457.84	88.17(T)
	0.000	0.000	0	0	0.000	0.000	680.47-1020.70	0.00(T)
		Average of Peak Amounts =			3.31	0.000		
Aroclor 1242	4.511	0.000	11467		1.92		80.00- 120.00	100.00(T)
	4.924	5.548	8097	5751	1.05	1.75	148.40- 222.61	70.61(T)
	0.000	5.694		2648		1.51	83.01- 124.51	0.00(T)
	5.484	5.908	26659	3818	6.34	2.38	47.93- 71.89	232.48(T)
	5.981	6.814	25369	9193	5.13	4.55	37.56- 56.34	221.23(T)
		Average of Peak Amounts =			3.61	2.55		
Aroclor 1248	4.924	0.000	8097		1.73		80.00- 120.00	100.00(T)
	5.261	5.518	25624	5683	5.88	2.20	17.18- 25.77	316.46(T)
	5.671	5.908	33660	3818	5.24	1.28	19.47- 29.21	415.71(T)
	0.000	6.348		4325		1.80	161.29- 241.93	0.00(T)
	0.000	7.048		14601		3.42	277.97- 416.96	0.00(T)
		Average of Peak Amounts =			4.28	2.18		
Aroclor 1254	0.000	6.704	0	11556	0.000	3.14		
	0.000	7.048	0	14601	0.000	2.52		
	0.000	0.000	0	0	0.000	0.000		
	0.000	7.998	0	12067	0.000	5.33		
	0.000	0.000	0	0	0.000	0.000		

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Report Date: 01-Oct-2015 18:21

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			0.000	3.66		
Aroclor 1260	7.068	0.000	18016	0	1.83	0.000	80.00- 120.00	100.00(T)
	8.091	0.000	20674	0	2.55	0.000	71.90- 107.85	114.75(T)
	0.000	0.000	0	0	0.000	0.000	73.13- 109.69	0.00(T)
	0.000	0.000	0	0	0.000	0.000	172.24- 258.37	0.00(T)
	9.884	0.000	9168	0	0.646	0.000	133.82- 200.73	50.89(T)
		Average of Peak Amounts =			1.68	0.000		
Aroclor 1262	0.000	9.264	0	2588	0.000	0.447		
	0.000	0.000	0	0	0.000	0.000		
	0.000	10.384	0	7073	0.000	0.733		
	0.000	0.000	0	0	0.000	0.000		
	0.000	12.374	0	3990	0.000	1.10		
		Average of Peak Amounts =			0.000	0.760		
Decachlorobiphenyl	12.251	0.000	24511	0	0.155	0.000		100.00
Aroclors, Total	0.000	0.000	80893	29750	15.8	9.15		0.00

QC Flag Legend

T - Target compound detected outside RT window.

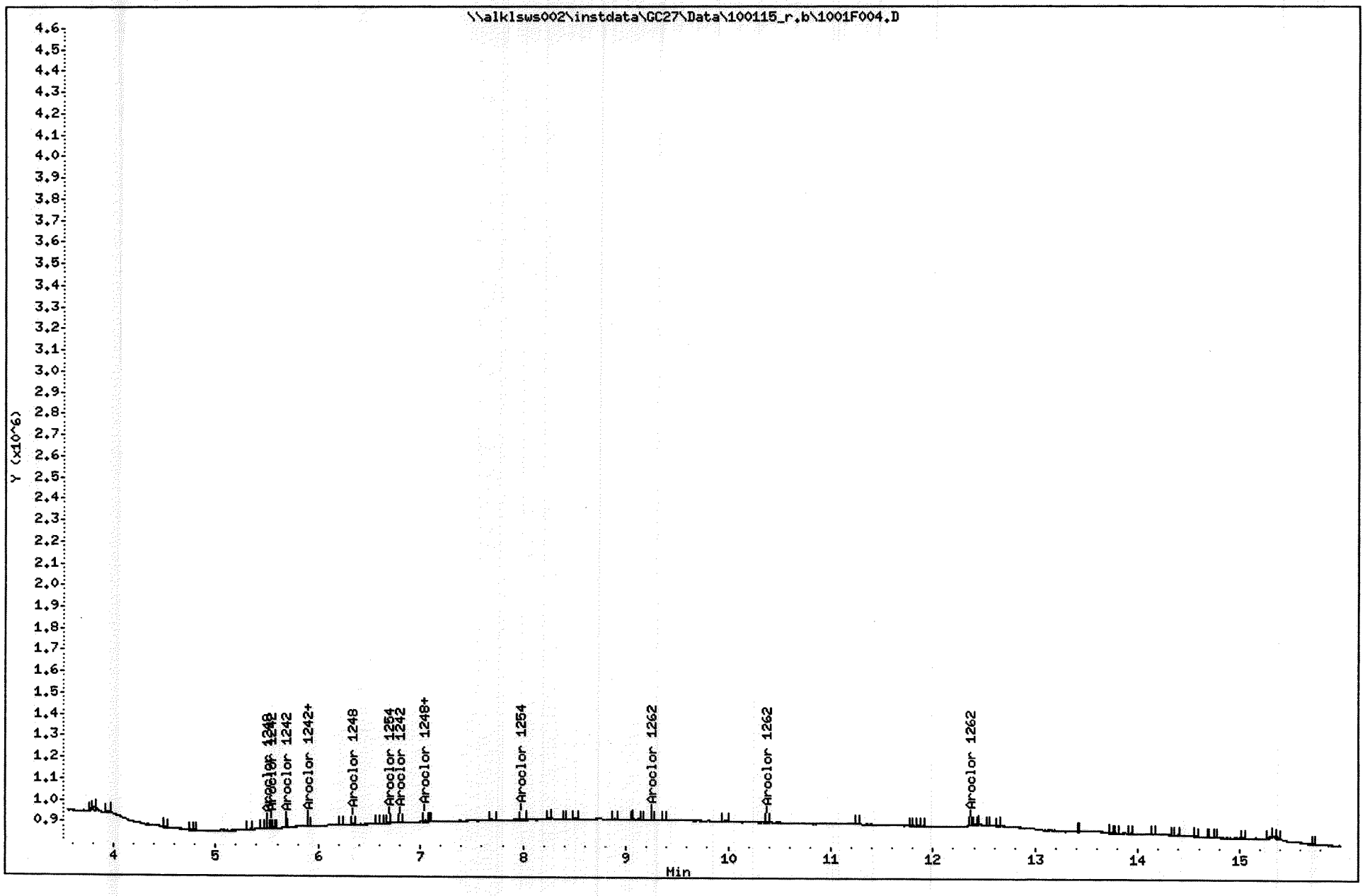
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F004.D
Date : 01-OCT-2015 10:34
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32

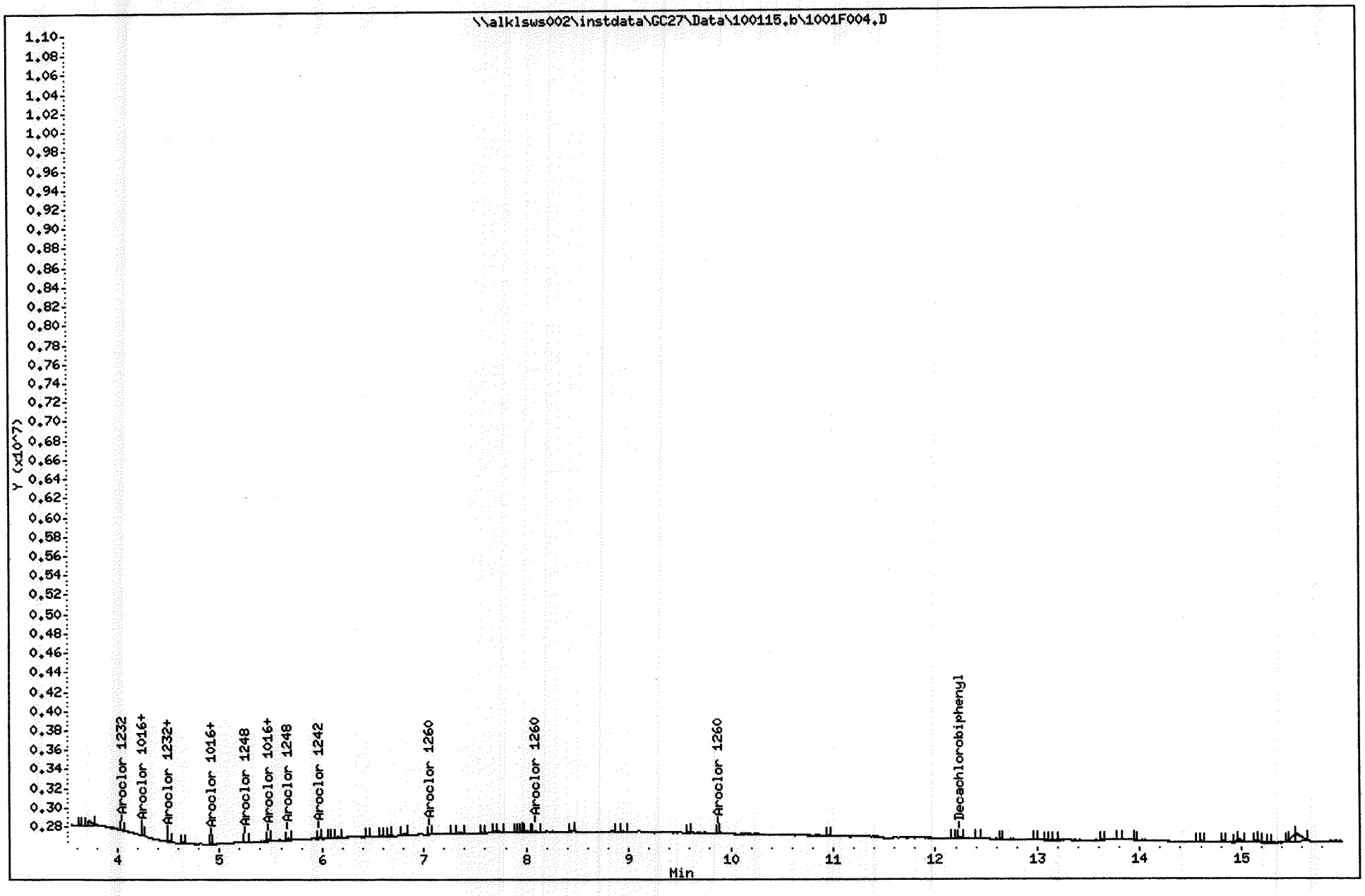


Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F004.D
Date : 01-OCT-2015 10:34
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY
Column diameter: 0.32

Column phase: DB-35MS



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F007.D
Lab ID: KWG1509486-4
RunType: CCV
Matrix: MARINE SEDIMENT

Date Acquired: 10/01/2015 11:45
Date Quantitated: 10/01/2015 18:22
Batch ID: KWG1509486
Analysis Method: 8082A
MethodJoinID: MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	OK

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:30
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F007.D	**Date Acquired:**	10/01/2015 11:45
Lab ID:	KWG1509486-4	**Date Quantitated:**	10/01/2015 18:21
RunType:	CCV	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D			**Vial:**	95
Acqu Date:	10/01/2015 11:45	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ149
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2				Rpt
Tetrachloro-m-xylene	3.88	4.34	9156881	3988461	51.73	50.71				NA
				%Recovery =	NA	NA	Limits =	20-123		
Decachlorobiphenyl	12.26	13.62	8504257	4270938	53.78	51.86				NA
				%Recovery =	NA	NA	Limits =	49-133		

Target Compounds

Final Conc. Units: mg/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	mg/Kg #1	mg/Kg #2	Rpt
Aroclor 1016			0	0	457.33	452.03			
Aroclor 1016 {1}	4.24	4.62	1740107m	856160	484.85	465.78			
Aroclor 1016 {2}	4.74	4.95	1406953m	1131118	469.60	464.61			
Aroclor 1016 {3}	4.94	5.59	4410331m	1302186	445.89	434.17			
Aroclor 1016 {4}	5.21	5.92	2188902m	987139	441.20	449.72			
Aroclor 1016 {5}	5.50	6.12	2304061m	961254	445.11	445.85			
Aroclor 1260			0	0	496.33	504.05			
Aroclor 1260 {1}	7.07	7.83	4520097	1057192	458.87	479.26			
Aroclor 1260 {2}	8.09	9.27	4029307	1924293	496.60	509.09			
Aroclor 1260 {3}	8.64	9.71	4118793	1832029	500.40	507.65			
Aroclor 1260 {4}	9.11	10.39	9465795	4390554	503.53	508.49			
Aroclor 1260 {5}	9.89	11.03	7409113	2880566	522.26	515.74			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D
Inj Date : 01-OCT-2015 11:45
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.880	4.336	9156881	3988461	51.7	50.7		100.00
Aroclor 1016	4.240	4.620	1740107	856160	485	466	80.00- 120.00	100.00(M)
	4.740	4.953	1406953	1131118	470	465	59.94- 89.92	80.85(M)
	4.936	5.586	4410331	1302186	446	434	305.90- 458.85	403.77(M)
	5.206	5.920	2188902	987139	441	450	95.68- 143.52	125.79(M)
	5.500	6.116	2304061	961254	445	446	100.22- 150.33	132.41(M)
			Average of Peak Amounts =		457	452		
Aroclor 1260	7.073	7.830	4520097	1057192	459	479	80.00- 120.00	100.00
	8.090	9.266	4029307	1924293	497	509	71.90- 107.85	89.14
	8.643	9.713	4118793	1832029	500	508	73.13- 109.69	91.12
	9.106	10.390	9465795	4390554	504	508	172.24- 258.37	209.42
	9.890	11.026	7409113	2880566	522	516	133.82- 200.73	163.91
			Average of Peak Amounts =		496	504		
Decachlorobiphenyl	12.256	13.616	8504257	4270938	53.8	51.9		100.00

QC Flag Legend

M - Compound response manually integrated.

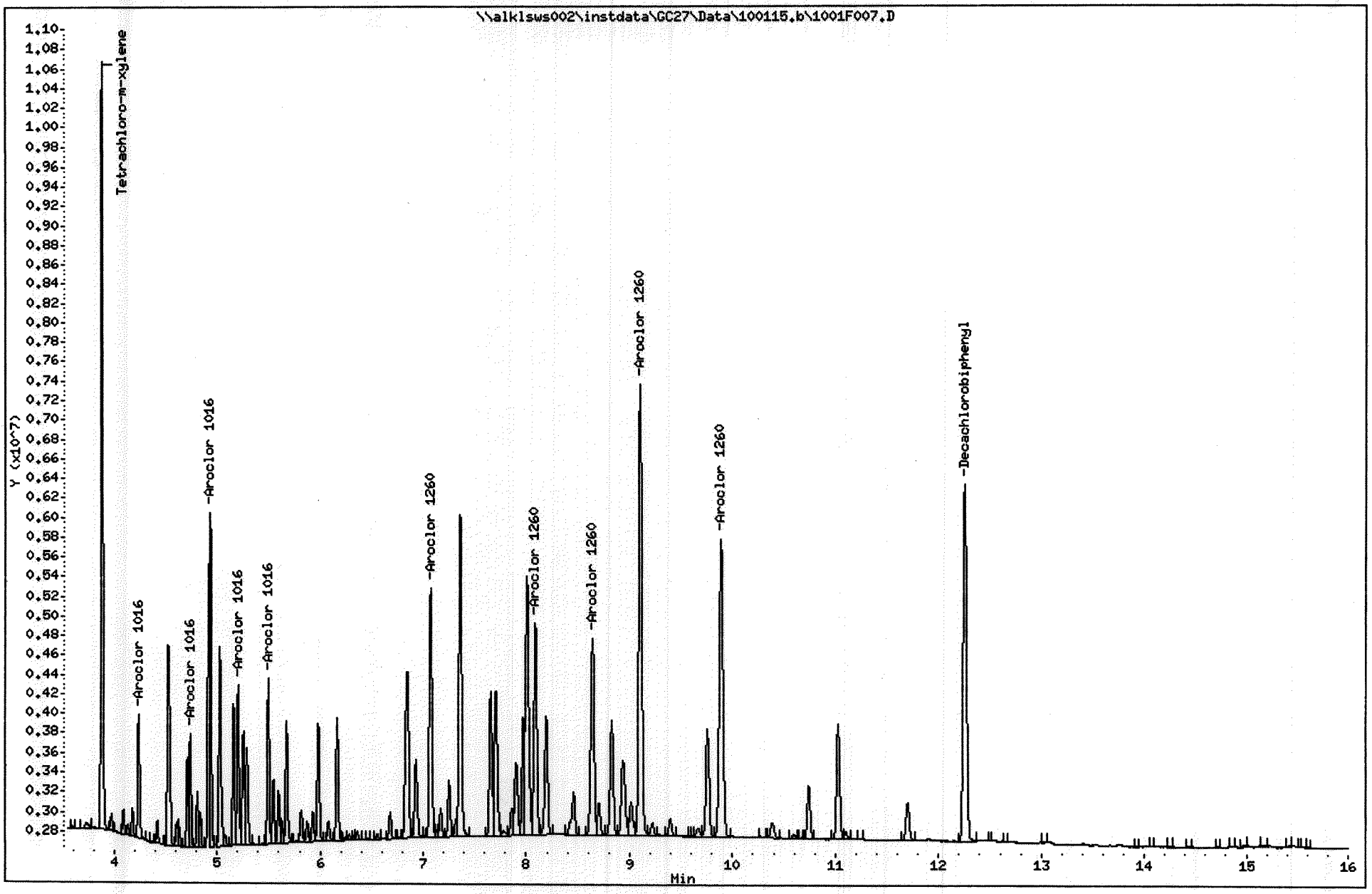
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Date : 01-OCT-2015 11:45
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32

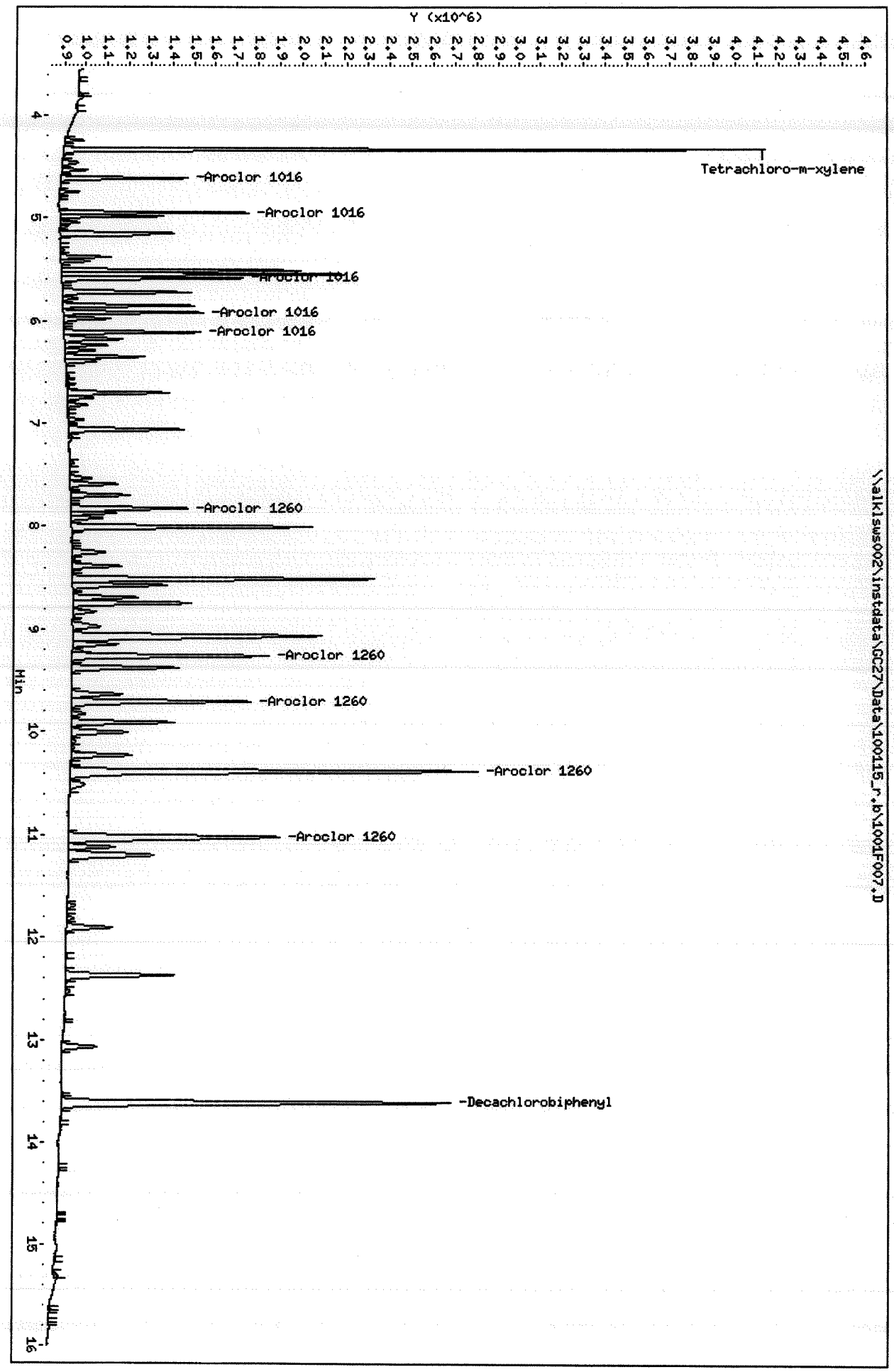


Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F007.D
Date : 01-OCT-2015 11:45
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-XLB

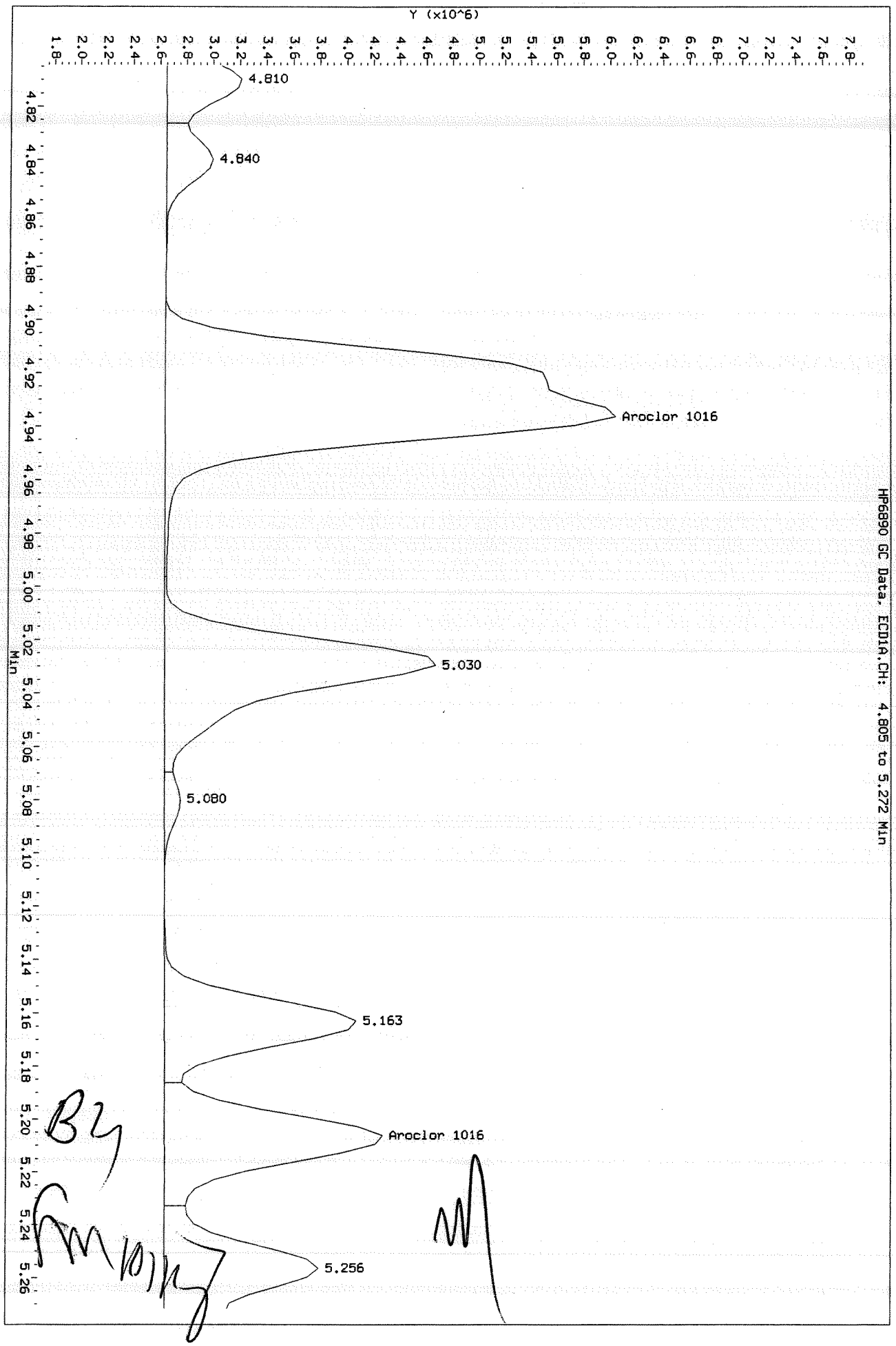
Instrument: GC27.i

Operator: SHURRAY
Column diameter: 0.32



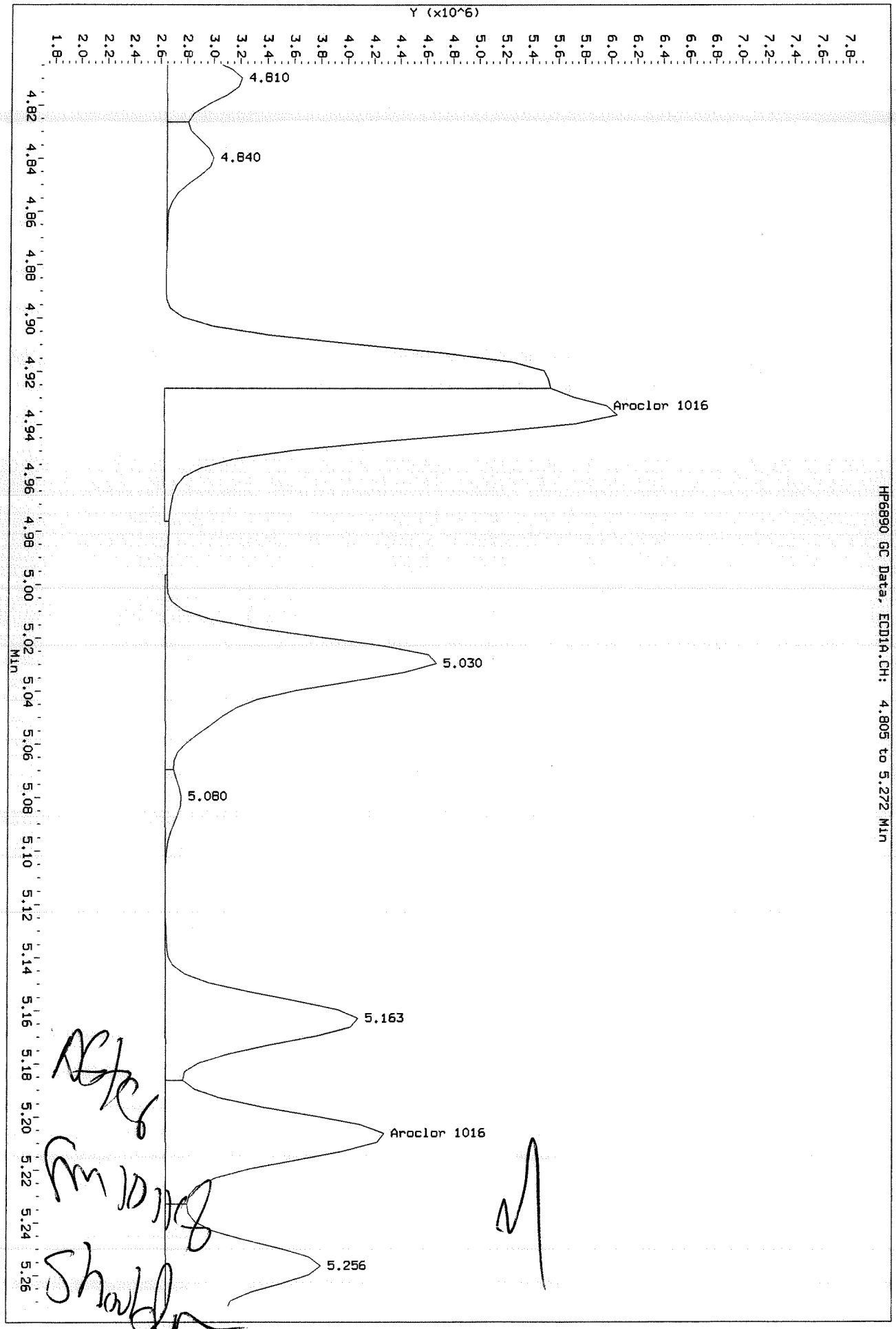
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Injection Date: 01-OCT-2015 11:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECDIA.CH: 4.805 to 5.272 Min



Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F007.D
Injection Date: 01-OCT-2015 11:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD1A.CH: 4.805 to 5.272 Min



Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\1001F008.D	**Date Acquired:**	10/01/2015 12:09
Lab ID:	KWG1509486-3	**Date Quantitated:**	10/01/2015 18:22
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:36
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115_R.B\1001F008.D	**Date Acquired:**	10/01/2015 12:09
Lab ID:	KWG1509486-3	**Date Quantitated:**	10/01/2015 18:21
RunType:	IB	**Batch ID:**	KWG1509486
Matrix:	MARINE SEDIMENT	**Analysis Method:**	8082A
		MethodJoinID:	MJ149

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	
	Aroclor 1260	22.7	NA	20	

Primary Review: _____

Secondary Review: _____

Printed: 10/01/2015 18:34:39
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\100115.B\1001F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D			**Vial:**	100
Acqu Date:	10/01/2015 12:09	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	MARINE SEDIME
Prod Code:	8082 PCB	**Collect Date:**		**Receive Date:**	10/01/2015

Analysis Lot:	KWG1509486	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\100115.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24	13.62	8389	23724	0.0530	0.2880			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	2.73	3.58			
Aroclor 1016 {1}	4.26	4.64	8281	8468	2.31	4.61			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}	4.92	5.55	7572	6249	0.7660	2.08			
Aroclor 1016 {4}	5.24	5.92	7937	4838	1.60	2.20			
Aroclor 1016 {5}	5.50	6.12	32343	11730	6.25	5.44			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	4.79			
Aroclor 1232 {1}		4.64	0	8468	0.0000	4.42			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}		5.55	0	6249	0.0000	4.07			
Aroclor 1232 {5}		5.92	0	4838	0.0000	5.87			
Aroclor 1242			0	0	4.93	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\100115.B\1001F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D			**Vial:**	100
Acqu Date:	10/01/2015 12:09	**Quant Date:**	10/01/2015 18:22	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509486-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {1}			0	0	0.0000	0.0000			
Aroclor 1242 {2}	4.92		7572	0	0.9770	0.0000			
Aroclor 1242 {3}	5.17		14047	0	4.48	0.0000			
Aroclor 1242 {4}	5.50		32343	0	7.69	0.0000			
Aroclor 1242 {5}	5.98		32396	0	6.55	0.0000			
Aroclor 1248			0	0	2.63	2.24			
Aroclor 1248 {1}	4.92		7572	0	1.62	0.0000			
Aroclor 1248 {2}	5.24	5.55	7937	6249	1.82	2.42			
Aroclor 1248 {3}	5.68	5.92	33263	4838	5.18	1.63			
Aroclor 1248 {4}	5.86	6.36	9434	6324	1.92	2.64			
Aroclor 1248 {5}		7.05	0	9703	0.0000	2.27			
Aroclor 1254			0	0	4.31	2.01			
Aroclor 1254 {1}	6.24		12798	0	3.29	0.0000			
Aroclor 1254 {2}	6.67	7.05	10642	9703	1.47	1.68			
Aroclor 1254 {3}	6.83	7.15	58067	5686	3.97	2.94			
Aroclor 1254 {4}	7.17	8.00	13271	4354	1.39	1.92			
Aroclor 1254 {5}	7.74	8.75	72469	4679	11.45	1.49			
Aroclors, Total			126285	41306	17.96	15.11	J	J	
Aroclor 1260			0	0	2.17	1.38			
Aroclor 1260 {1}	7.08		40622	0	4.12	0.0000			
Aroclor 1260 {2}	8.08	9.27	22143	5098	2.73	1.35			
Aroclor 1260 {3}	8.64	9.71	12899	4584	1.57	1.27			
Aroclor 1260 {4}	9.11	10.38	28554	10374	1.52	1.20			
Aroclor 1260 {5}	9.88	11.02	13153	9523	0.9270	1.71			
Aroclor 1262			0	0	1.18	1.11			
Aroclor 1262 {1}	8.08	9.27	22143	5098	1.64	0.8810			
Aroclor 1262 {2}	8.64	9.71	12899	4584	1.10	1.13			
Aroclor 1262 {3}	9.11	10.38	28554	10374	1.24	1.08			
Aroclor 1262 {4}	9.88	11.02	13153	9523	0.7580	1.42			
Aroclor 1262 {5}		12.40	0	3864	0.0000	1.06			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Report Date: 01-Oct-2015 18:22

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D
Inj Date : 01-OCT-2015 12:09
Sample Info: IB
Misc Info :
Cal Date : 01-OCT-2015 18:04
Operator : SMURRAY
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\100115.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\100115_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.262	4.635	8281	8468	2.31	4.61	80.00- 120.00	100.00(T)
	0.000	0.000					107.99- 161.98	0.00(T)
	4.915	5.548	7572	6249	0.766	2.08	305.90- 458.85	91.44(T)
	5.242	5.915	7937	4838	1.60	2.20	95.68- 143.52	95.85(T)
	5.498	6.118	32343	11730	6.25	5.44	100.22- 150.33	390.57(T)
		Average of Peak Amounts =			2.73	3.58		
Aroclor 1232	0.000	4.635	0	8468	0.000	4.42		
	0.000	0.000	0	0	0.000	0.000		
	0.000	0.000	0	0	0.000	0.000		
	0.000	5.548	0	6249	0.000	4.07		
	0.000	5.915	0	4838	0.000	5.86		
		Average of Peak Amounts =			0.000	4.78		
Aroclor 1242	0.000	0.000	0	0	0.000	0.000	80.00- 120.00	0.00(T)
	4.915	0.000	7572	0	0.977	0.000	148.40- 222.61	0.00(T)
	5.165	0.000	14047	0	4.48	0.000	37.98- 56.97	0.00(T)
	5.498	0.000	32343	0	7.69	0.000	47.93- 71.89	0.00(T)
	5.982	0.000	32396	0	6.55	0.000	37.56- 56.34	0.00(T)
		Average of Peak Amounts =			4.92	0.000		
Aroclor 1248	4.915	0.000	7572		1.62		80.00- 120.00	100.00(T)
	5.242	5.548	7937	6249	1.82	2.42	17.18- 25.77	104.82(T)
	5.678	5.915	33263	4838	5.18	1.63	19.47- 29.21	439.29(T)
	5.862	6.355	9434	6324	1.92	2.64	3.05- 4.58	124.59(T)
	0.000	7.045		9703		2.27	277.97- 416.96	0.00(T)
		Average of Peak Amounts =			2.64	2.24		
Aroclor 1254	6.235	0.000	12798		3.29		80.00- 120.00	100.00
	6.668	7.045	10642	9703	1.47	1.67	1017.66-1526.49	83.15
	6.832	7.152	58067	5686	3.97	2.94	9646.23-14469.35	453.72
	7.172	8.002	13271	4354	1.39	1.92	1126.72-1690.08	103.70
	7.735	8.745	72469	4679	11.4	1.49	281.12- 421.67	566.25

Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Report Date: 01-Oct-2015 18:22

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
		Average of Peak Amounts =			4.30	2.01		
Aroclor 1260	7.075	0.000	40622		4.12		80.00- 120.00	100.00
	8.082	9.268	22143	5098	2.73	1.35	71.90- 107.85	54.51
	8.642	9.708	12899	4584	1.57	1.27	73.13- 109.69	31.75
	9.108	10.382	28554	10374	1.52	1.20	172.24- 258.37	70.29
	9.882	11.018	13153	9523	0.927	1.71	133.82- 200.73	32.38
		Average of Peak Amounts =			2.17	1.38		
Aroclor 1262	8.082	9.268	22143	5098	1.64	0.881	80.00- 120.00	100.00(T)
	8.642	9.708	12899	4584	1.10	1.13	81.49- 122.24	58.25(T)
	9.108	10.382	28554	10374	1.24	1.07	185.52- 278.29	128.95(T)
	9.882	11.018	13153	9523	0.758	1.42	145.56- 218.35	59.40(T)
	0.000	12.402		3864		1.06	52.03- 78.05	75.79(T)
		Average of Peak Amounts =			1.18	1.11		
Decachlorobiphenyl	12.235	13.615	8389	23724	0.0531	0.288		100.00
Aroclors, Total	0.000	0.000	126285	41306	18.0	15.1		0.00

QC Flag Legend

T - Target compound detected outside RT window.

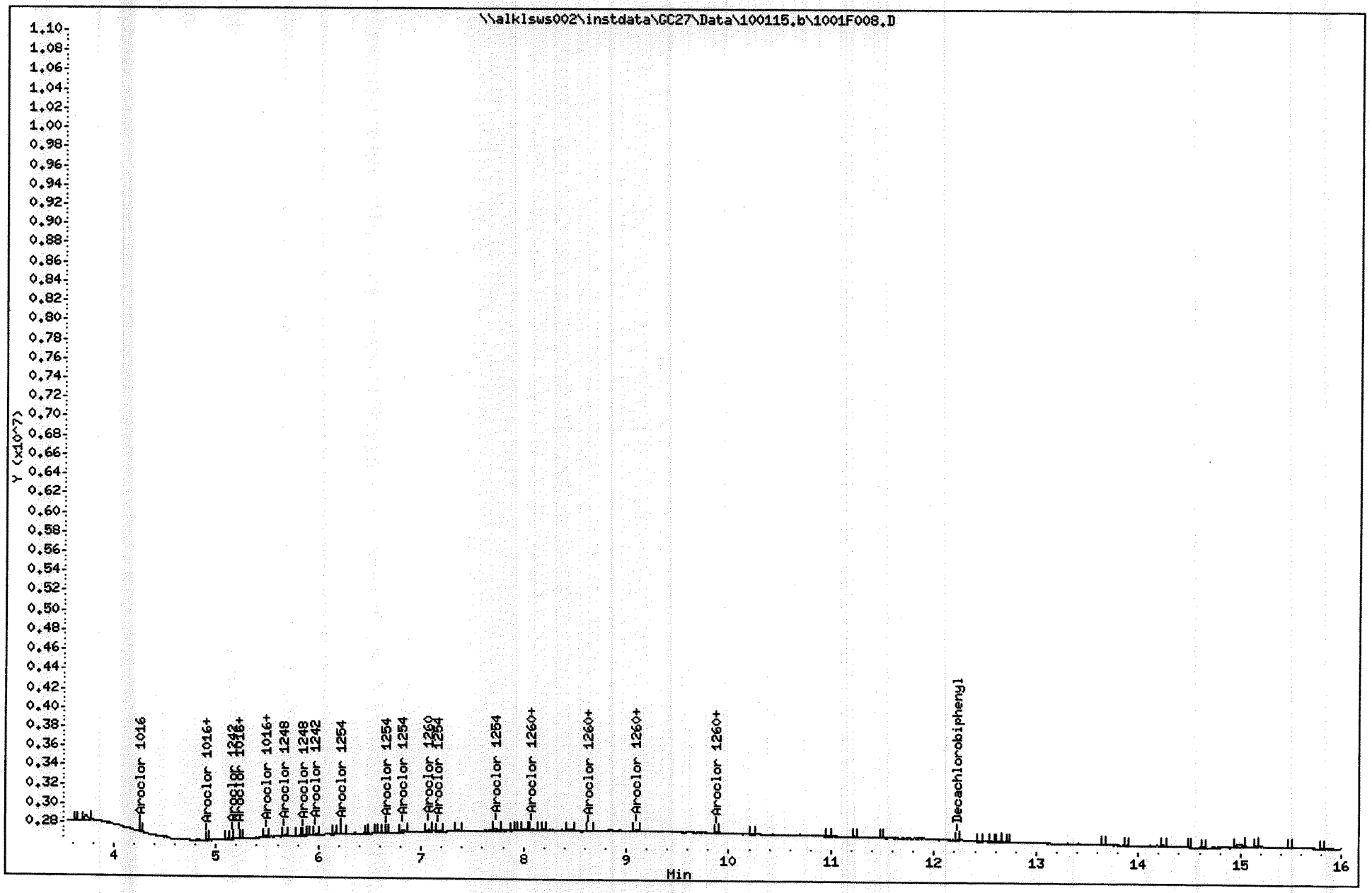
Data File: \\alklsws002\instdata\GC27\Data\100115.b\1001F008.D
Date : 01-OCT-2015 12:09
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-35MS

Column diameter: 0.32



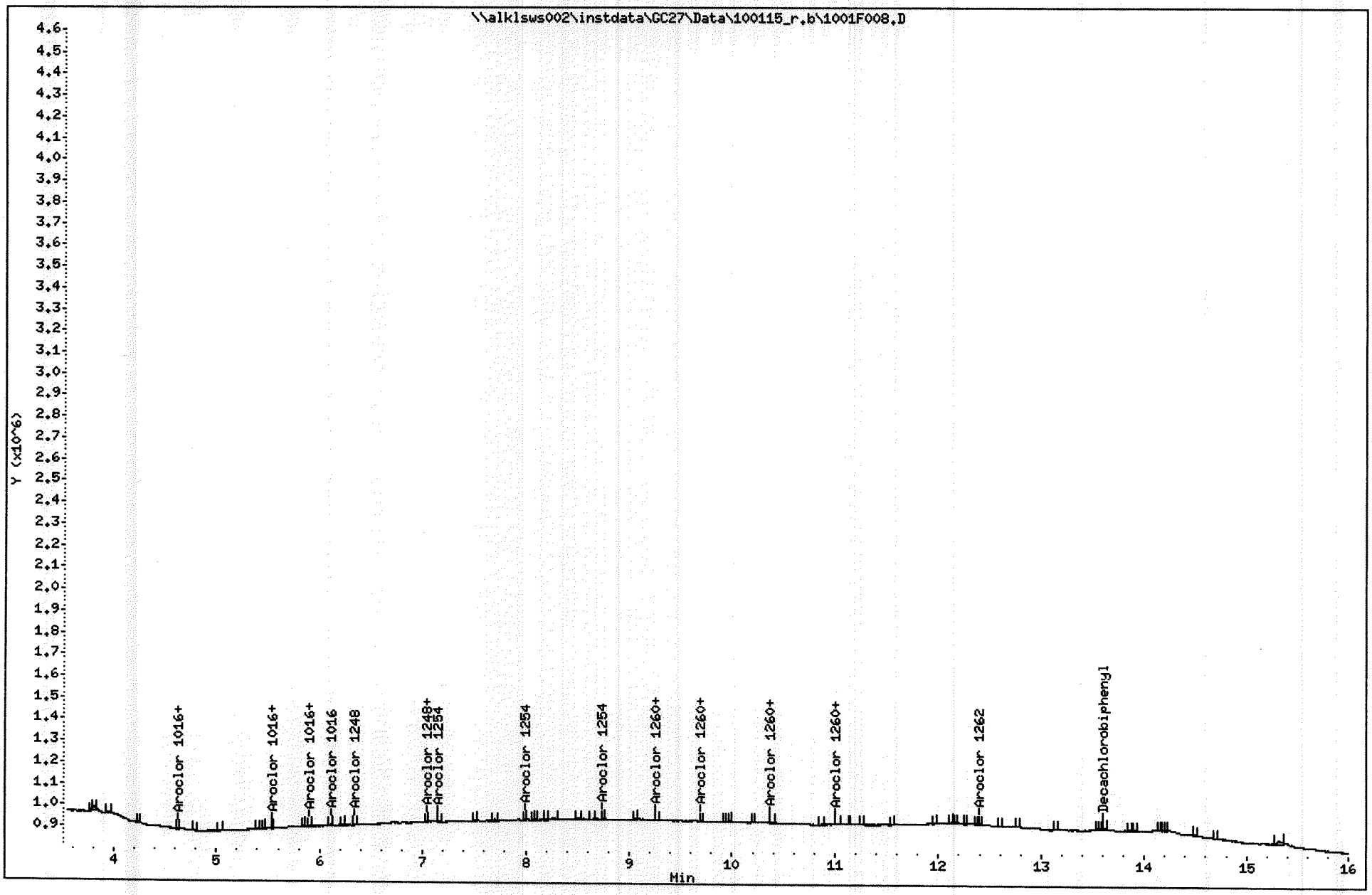
Data File: \\alklsws002\instdata\GC27\Data\100115_r.b\1001F008.D
Date : 01-OCT-2015 12:09
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: SMURRAY

Column phase: DB-XLB

Column diameter: 0.32



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Page: 1

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50ppb average %D = 17.9 < 20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
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3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
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8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
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15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *↓	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ 20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Other column OK

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

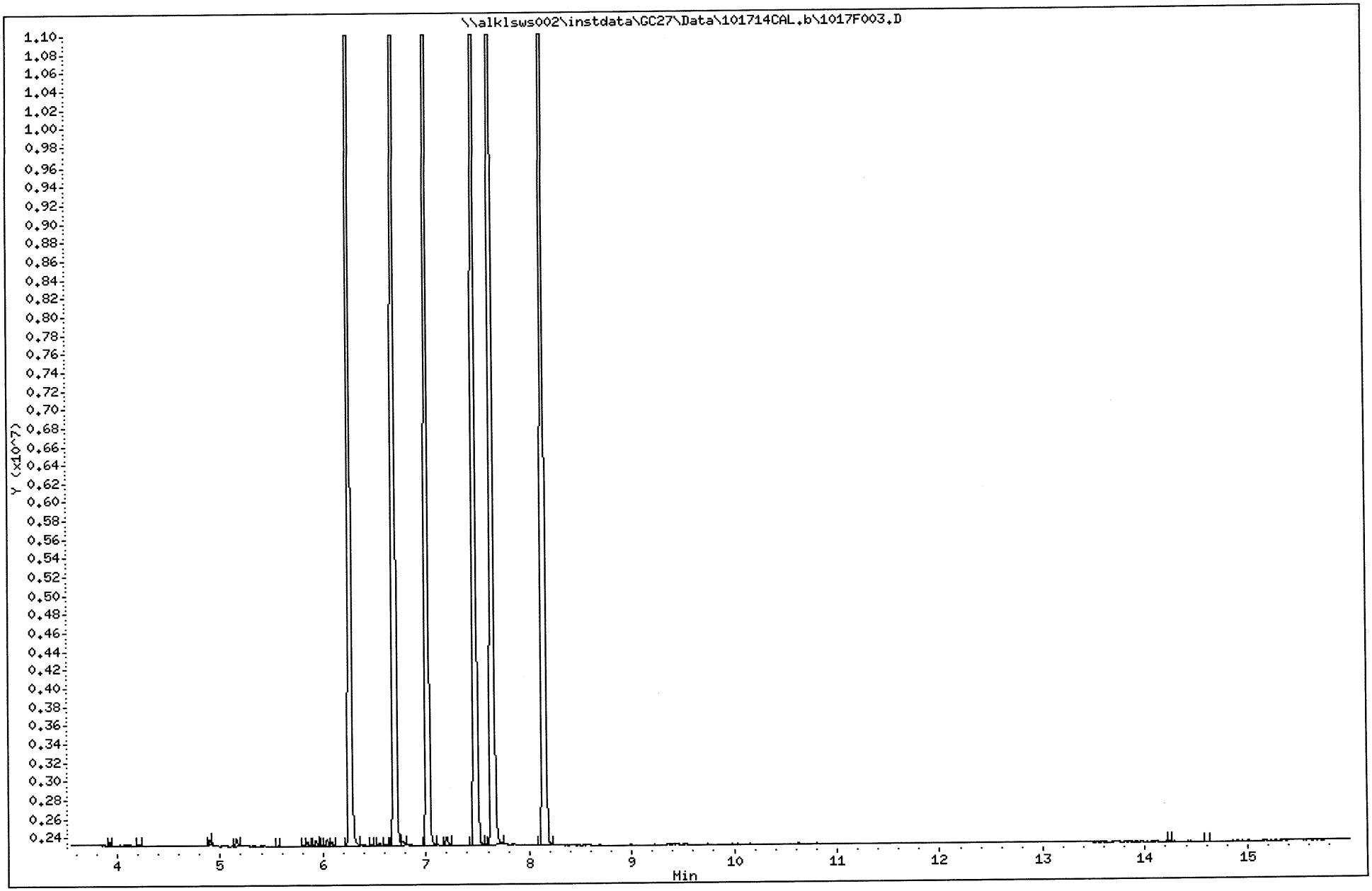
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



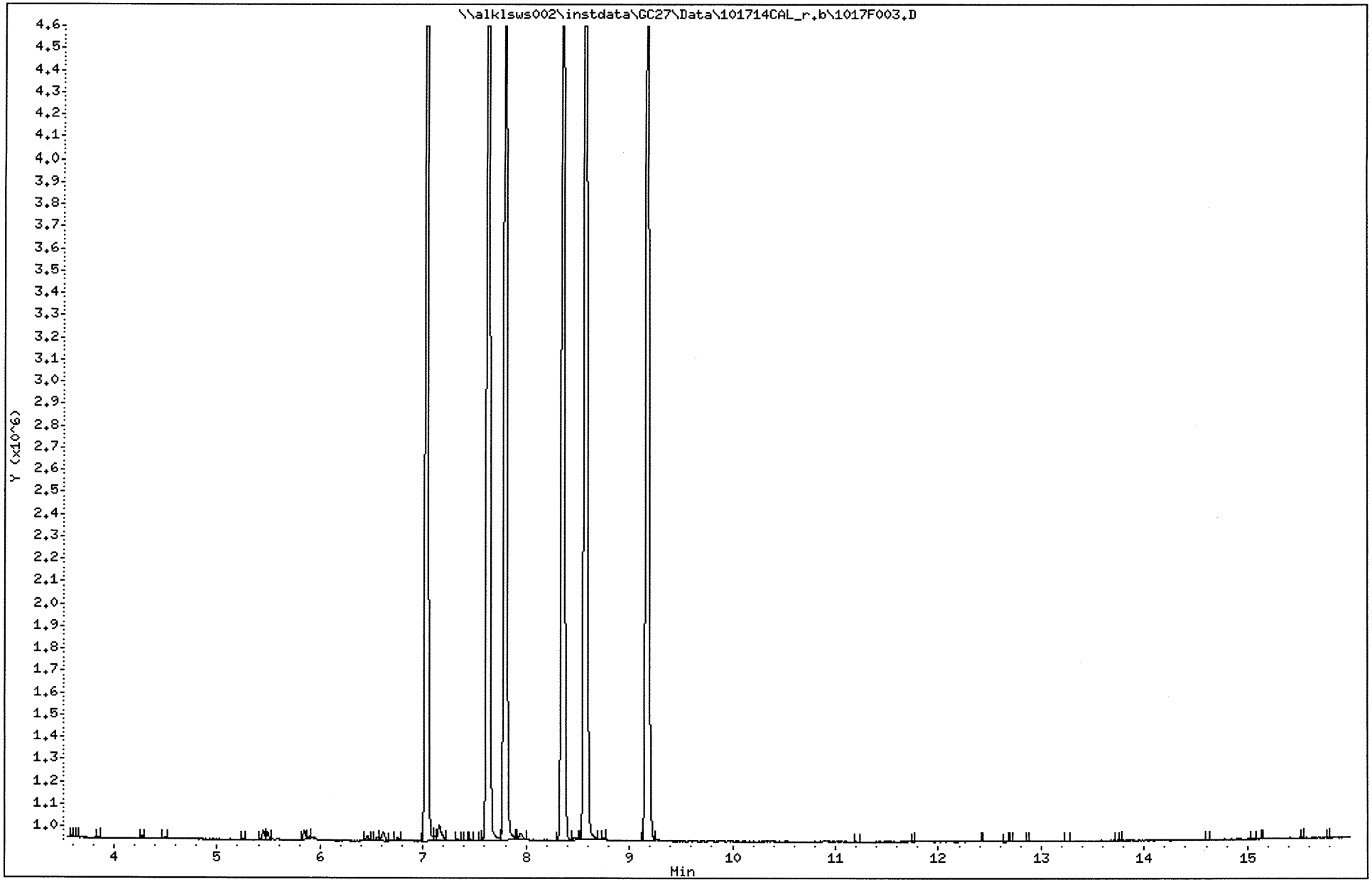
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

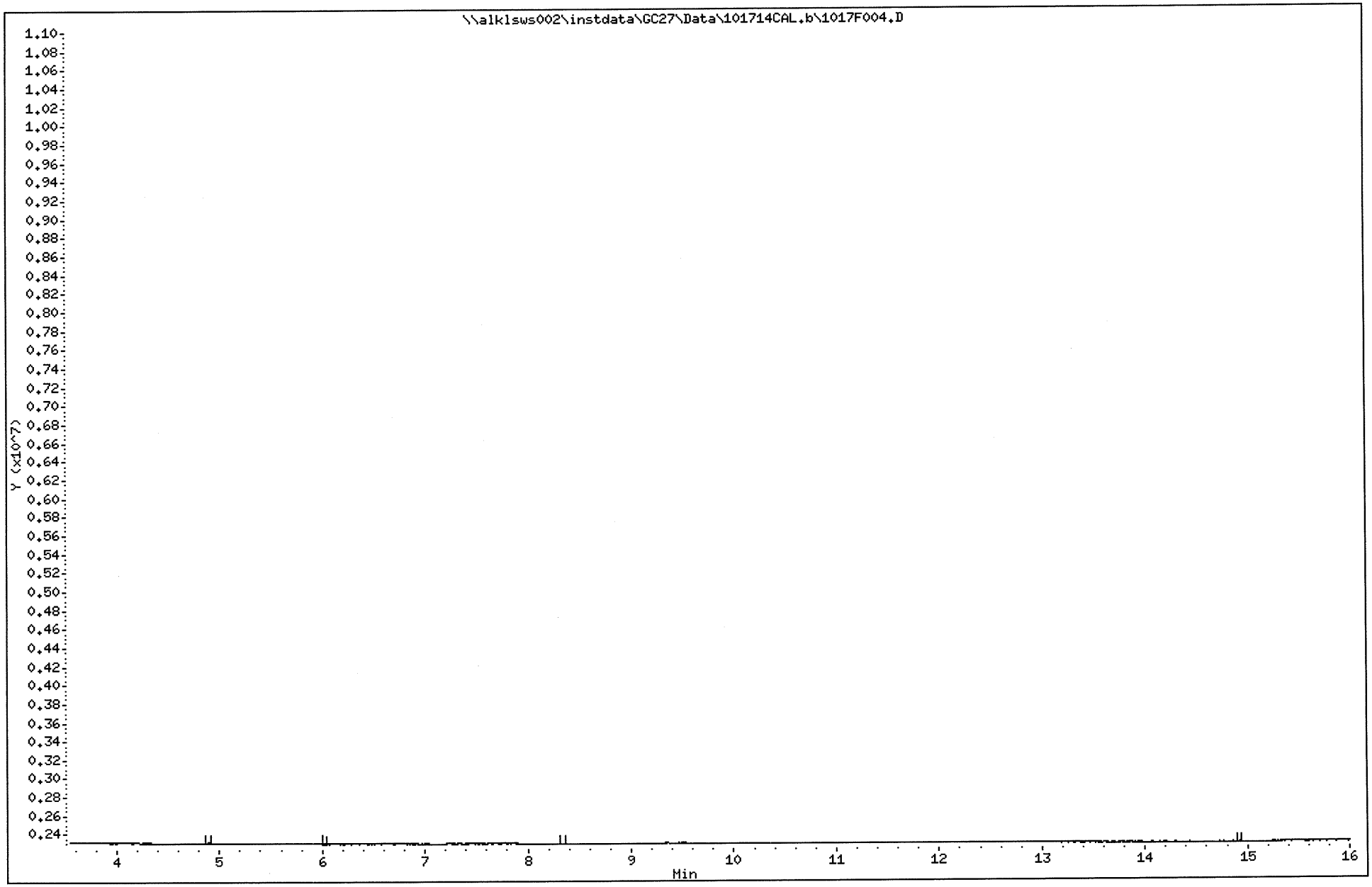
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



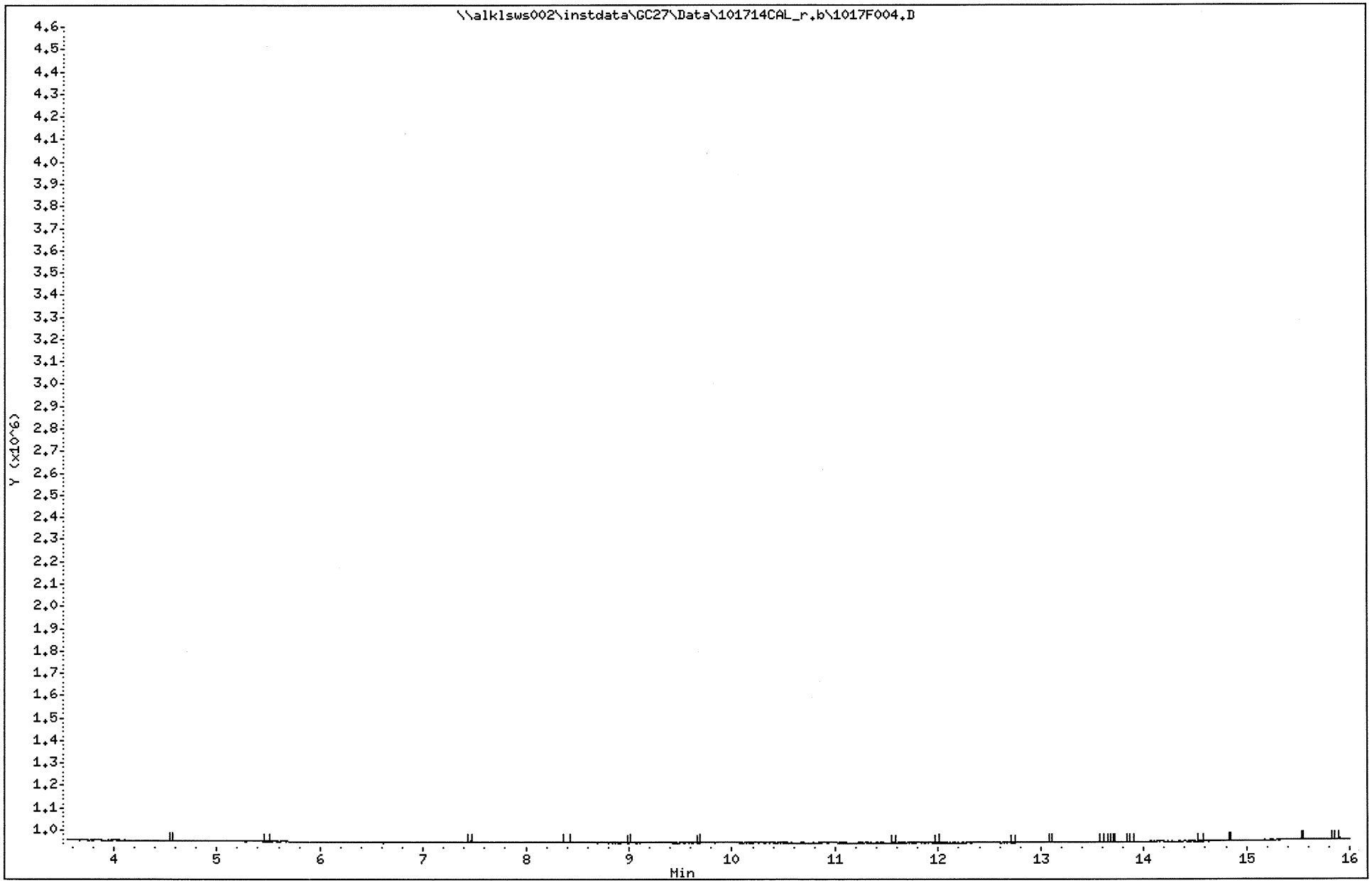
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

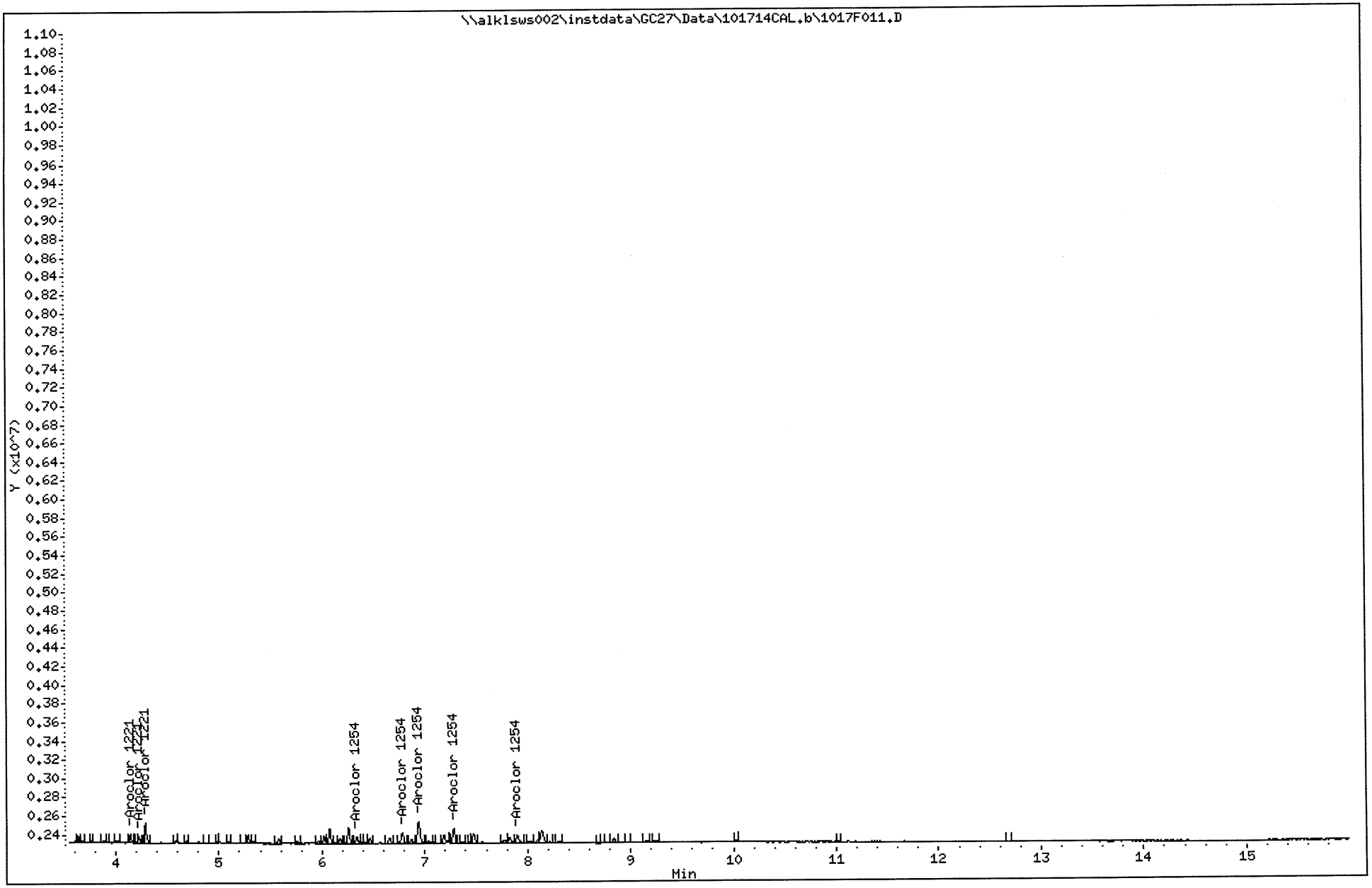
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

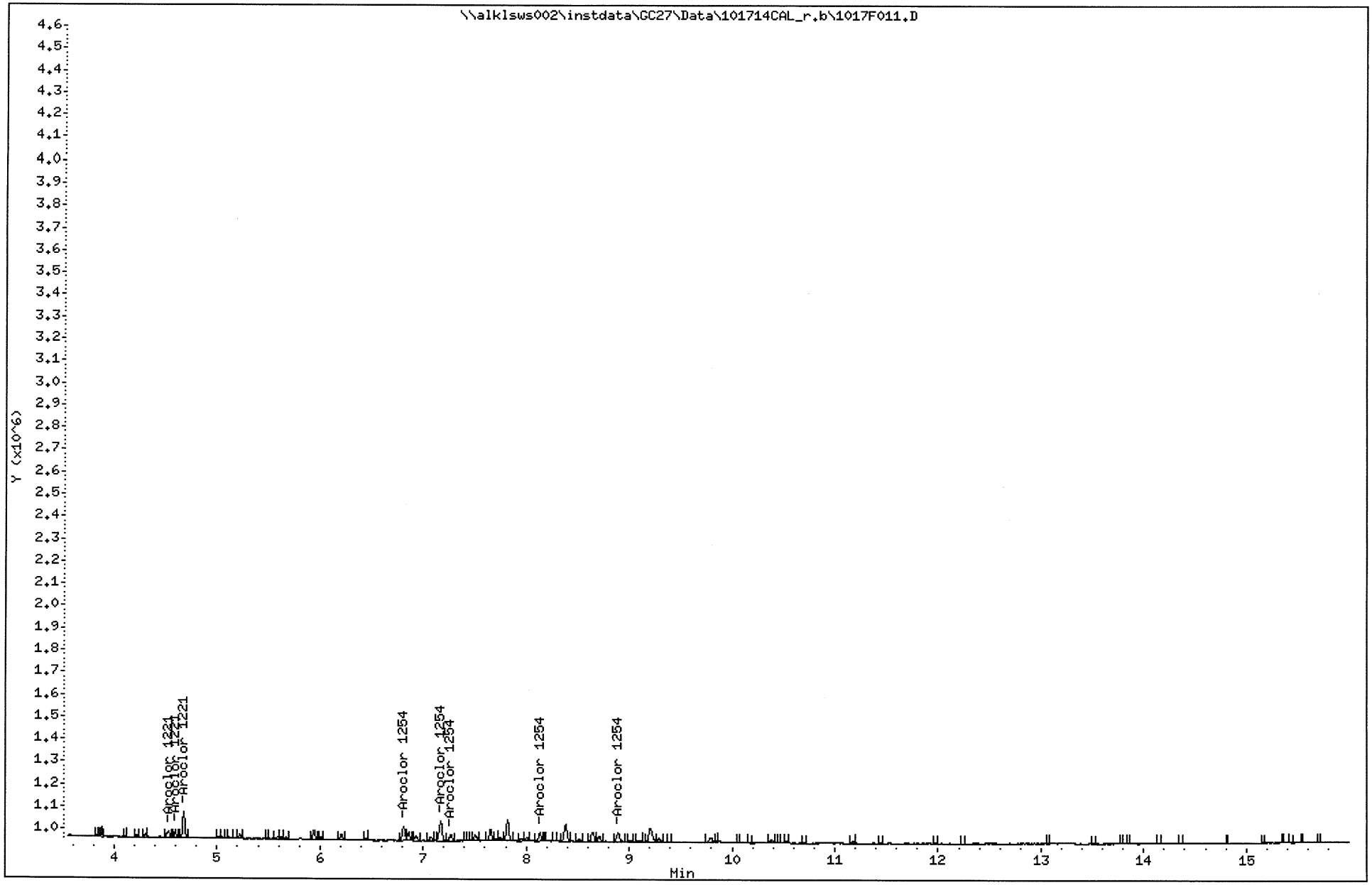


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

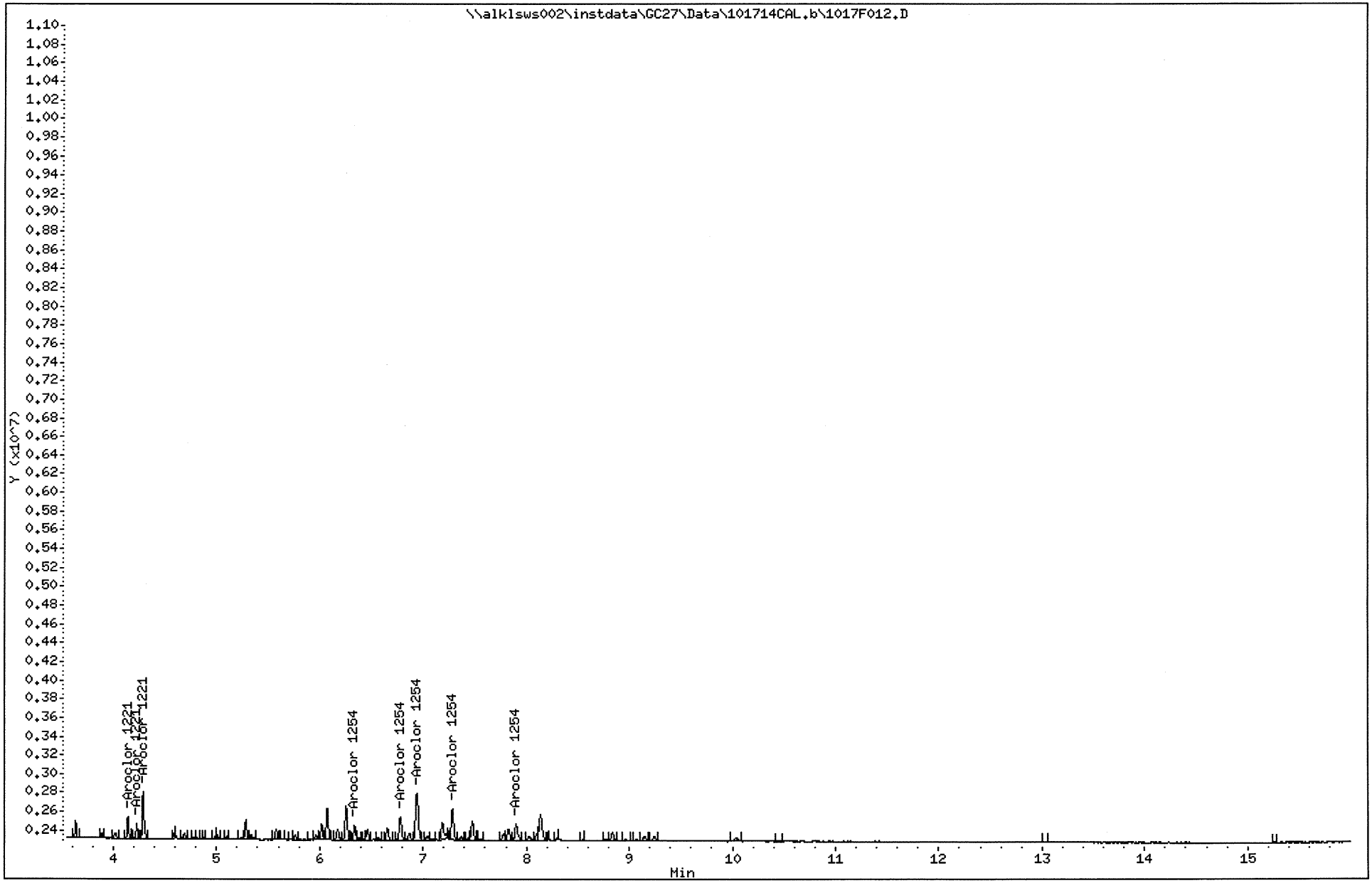
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



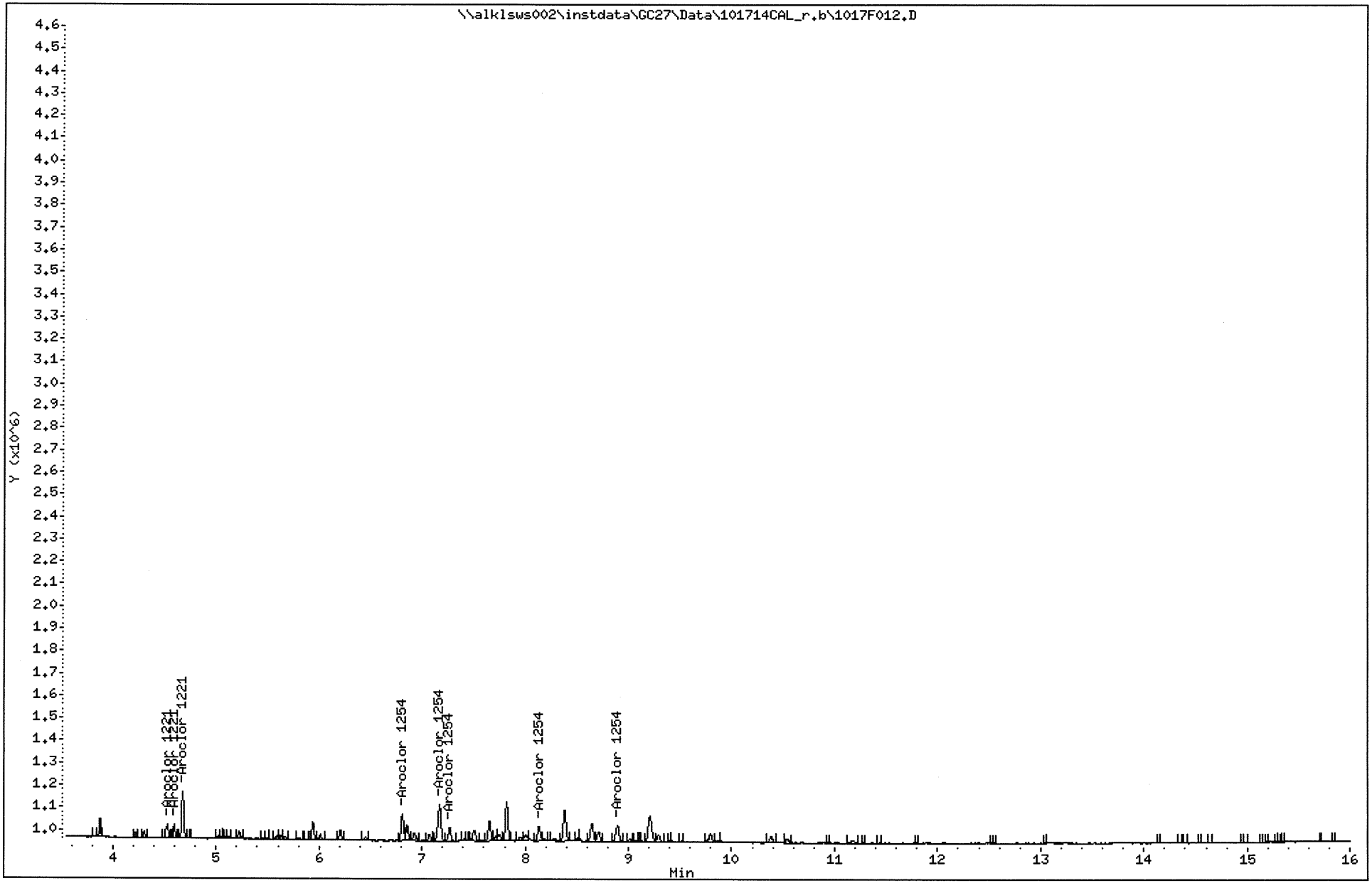
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

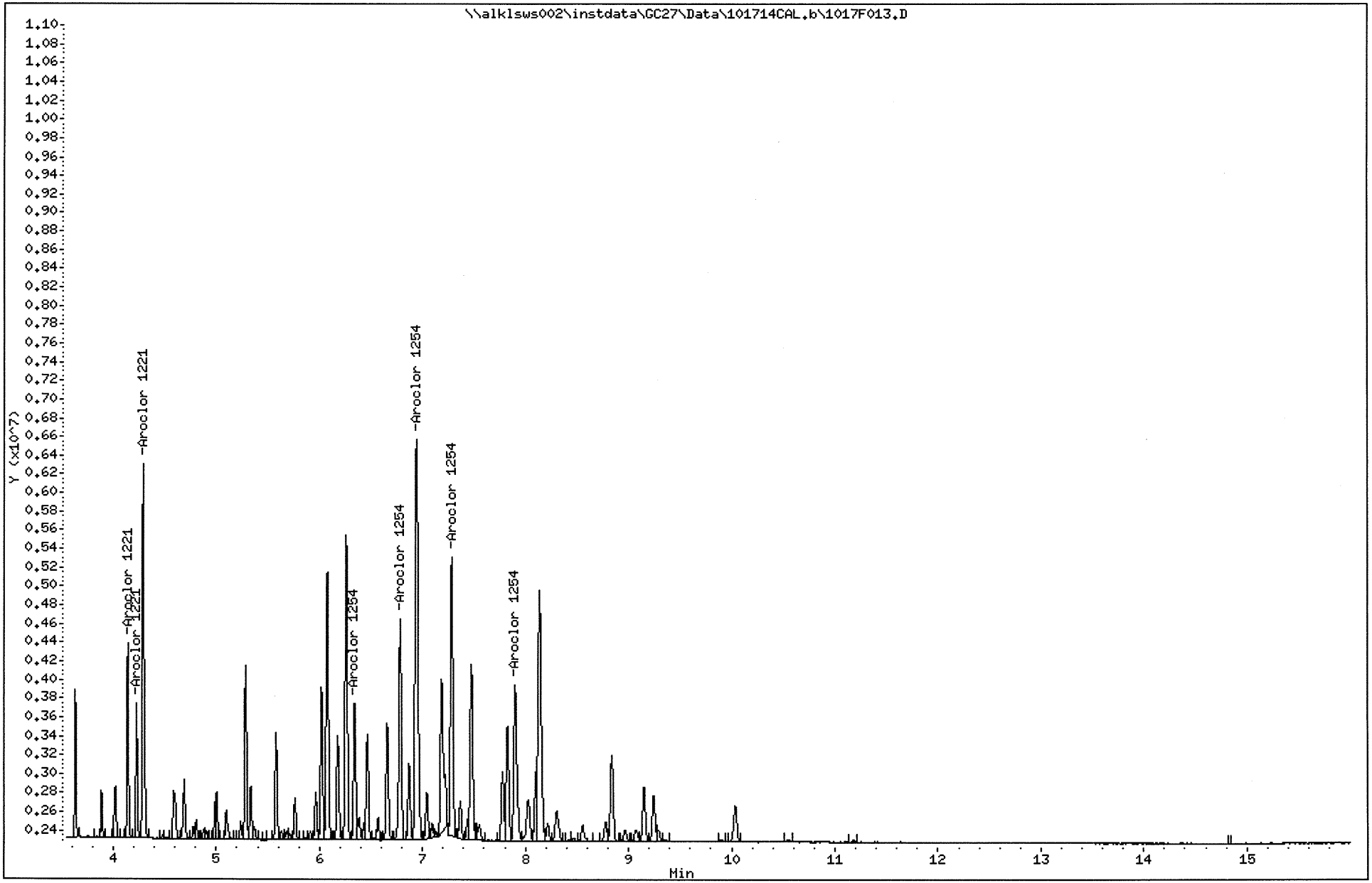
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

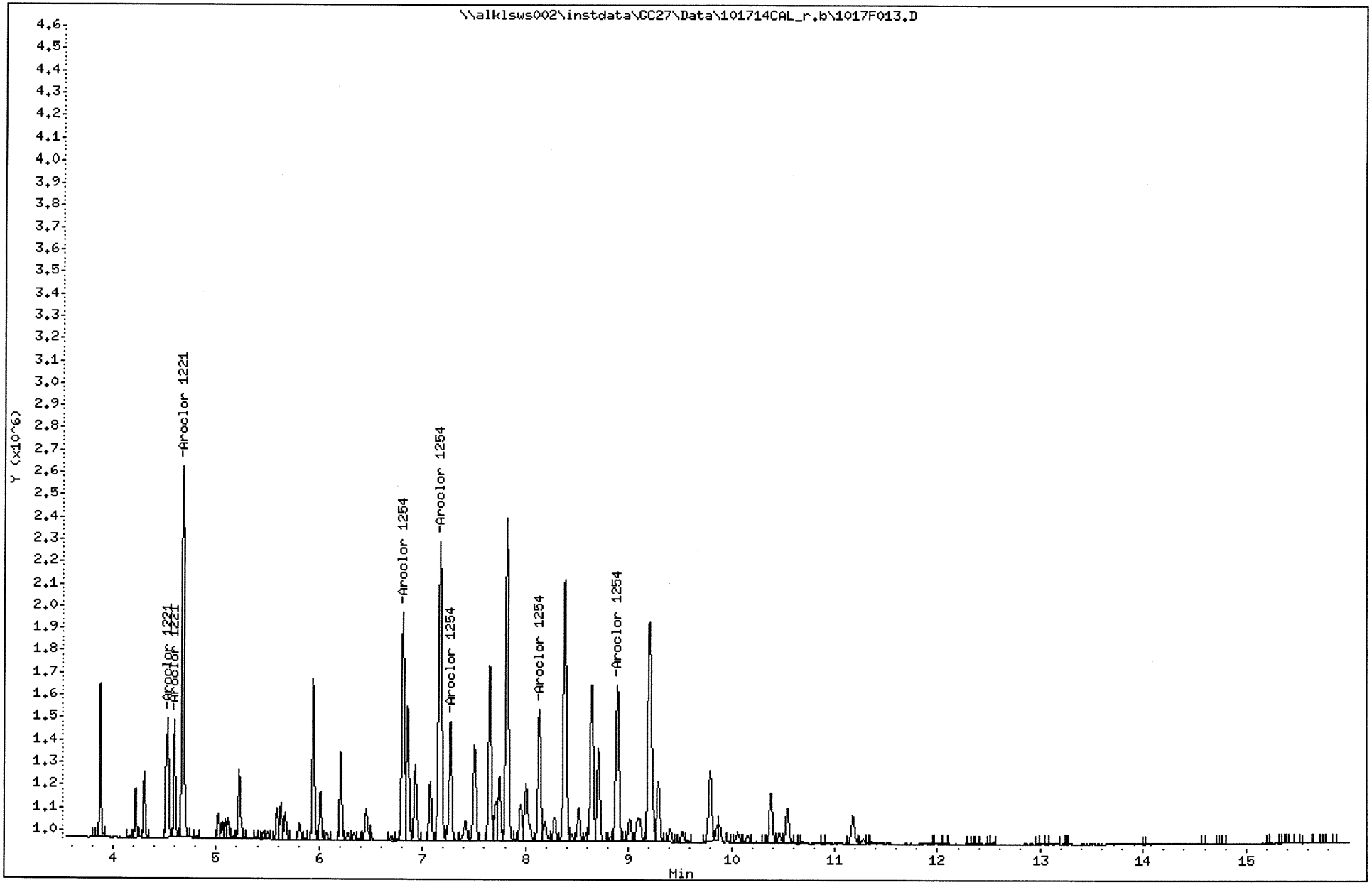


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

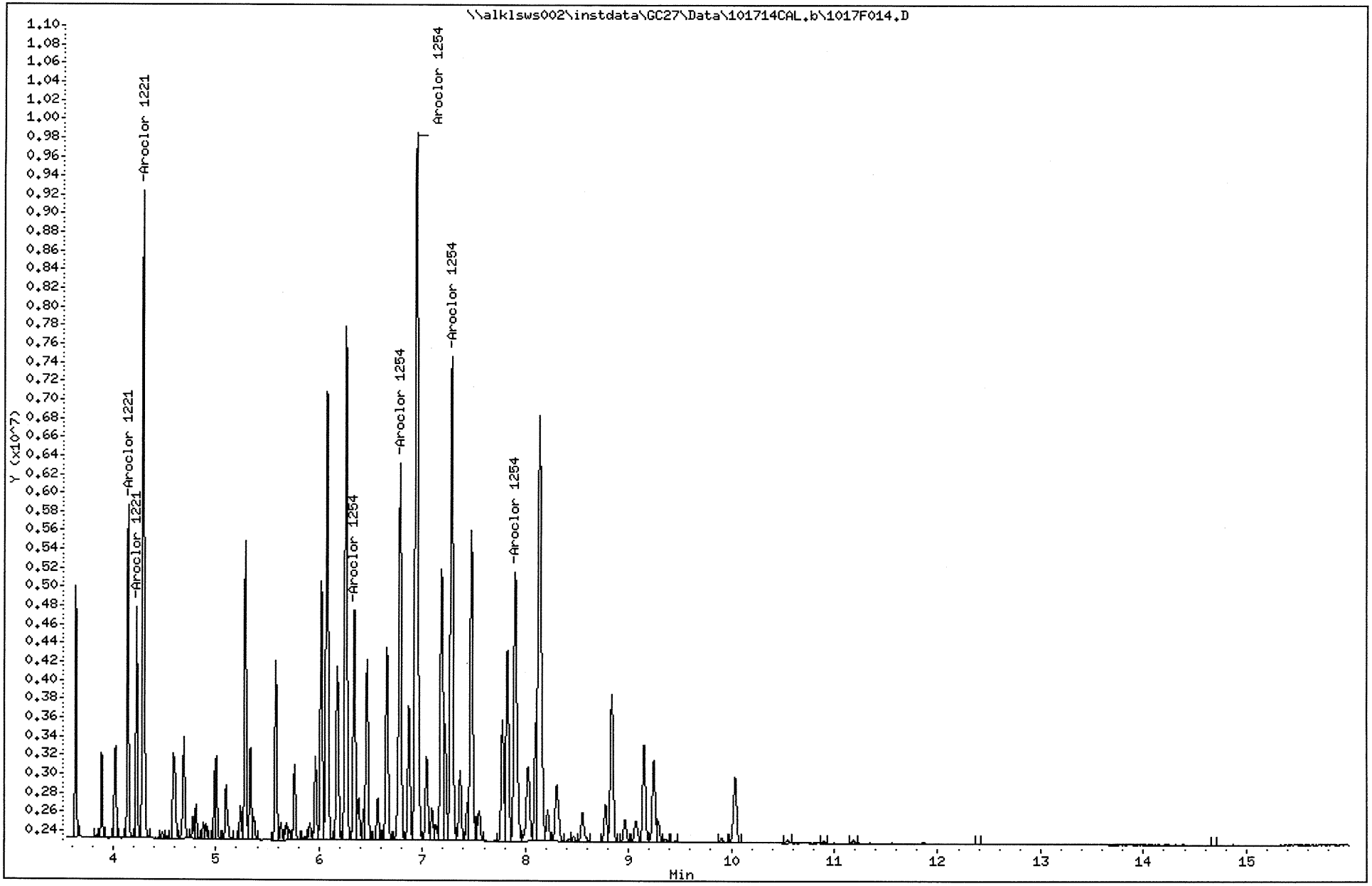
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

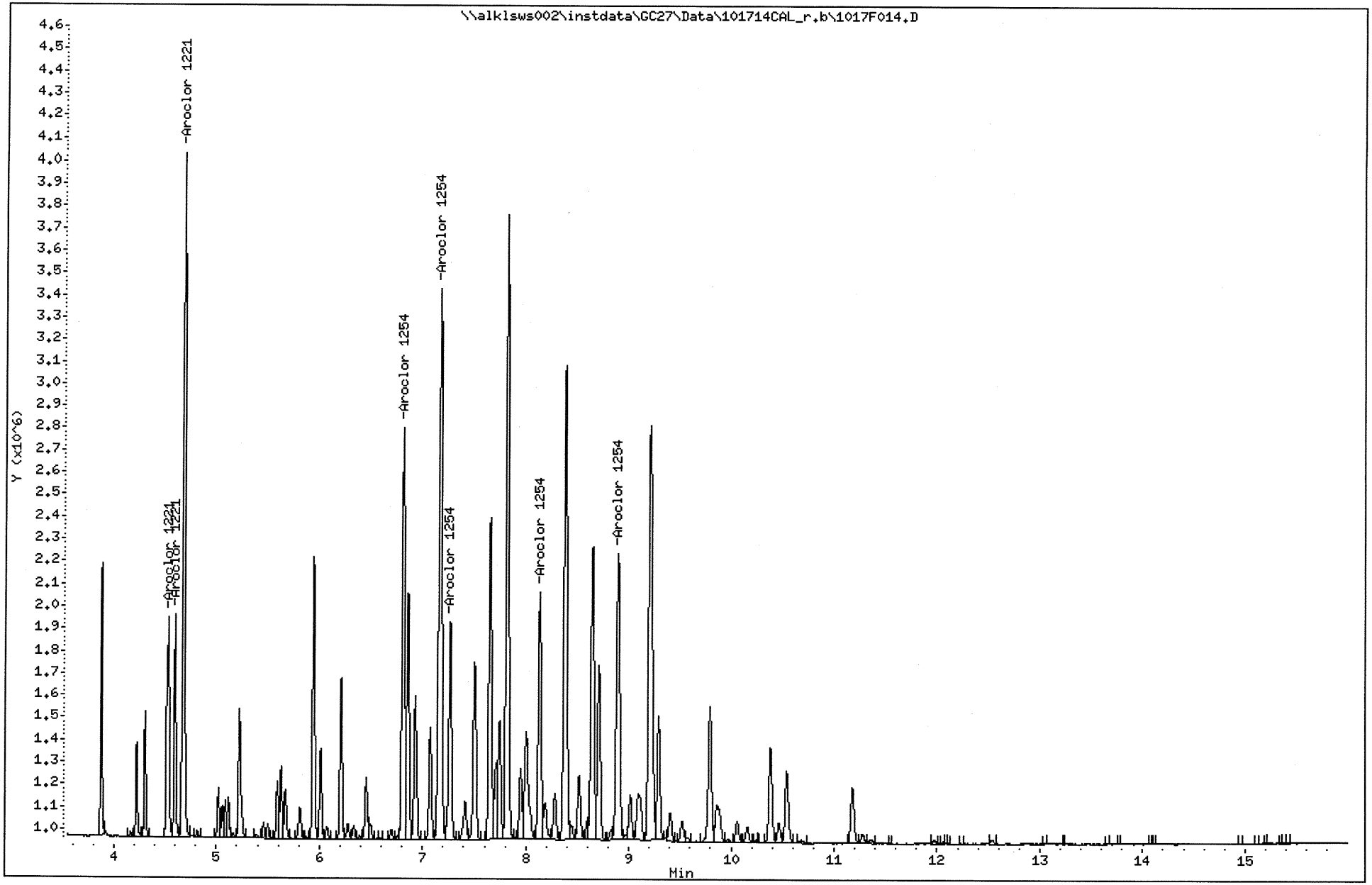


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

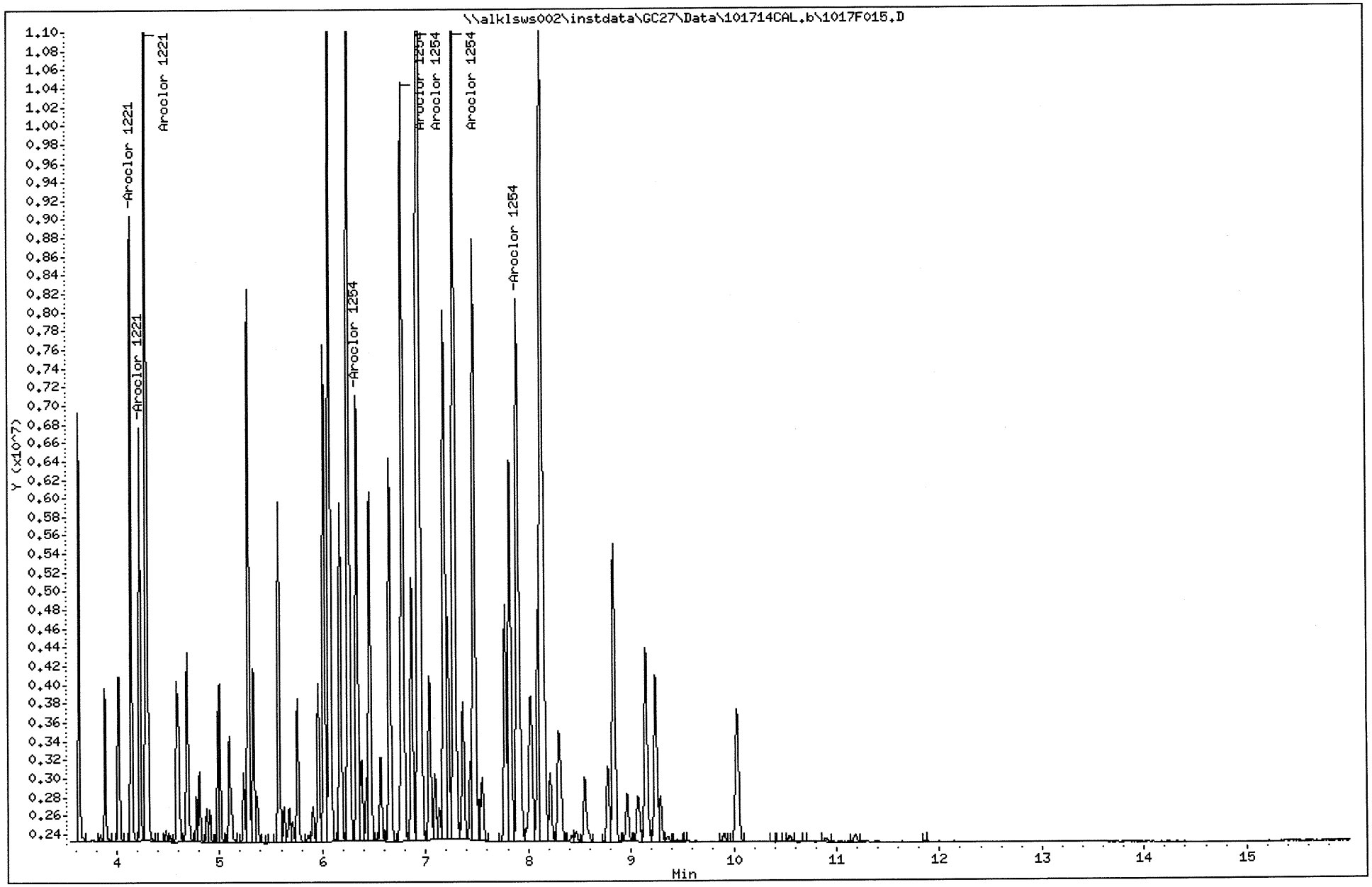
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



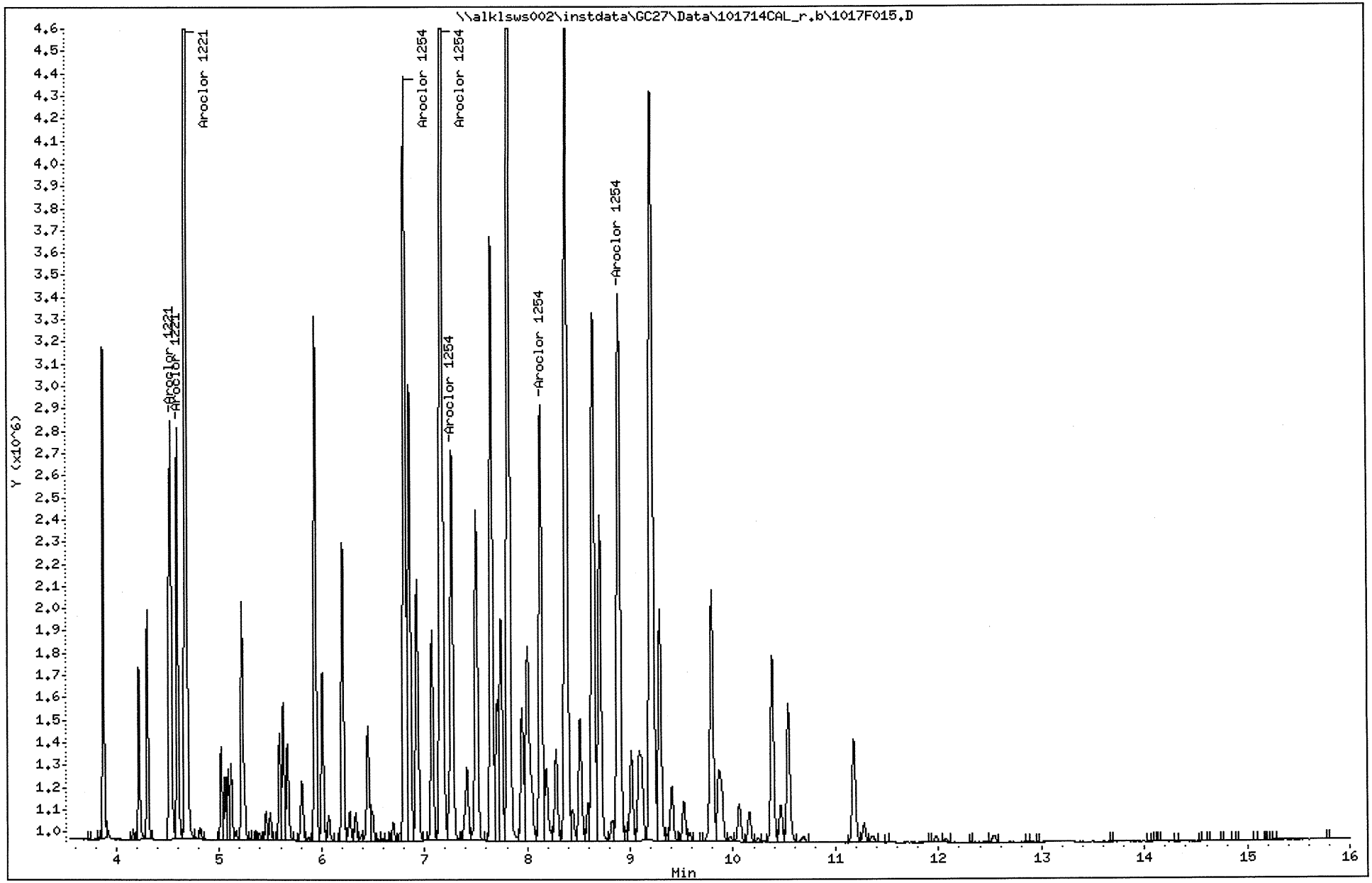
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
		Average of Peak Amounts =			7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
		Average of Peak Amounts =			4200	4190		

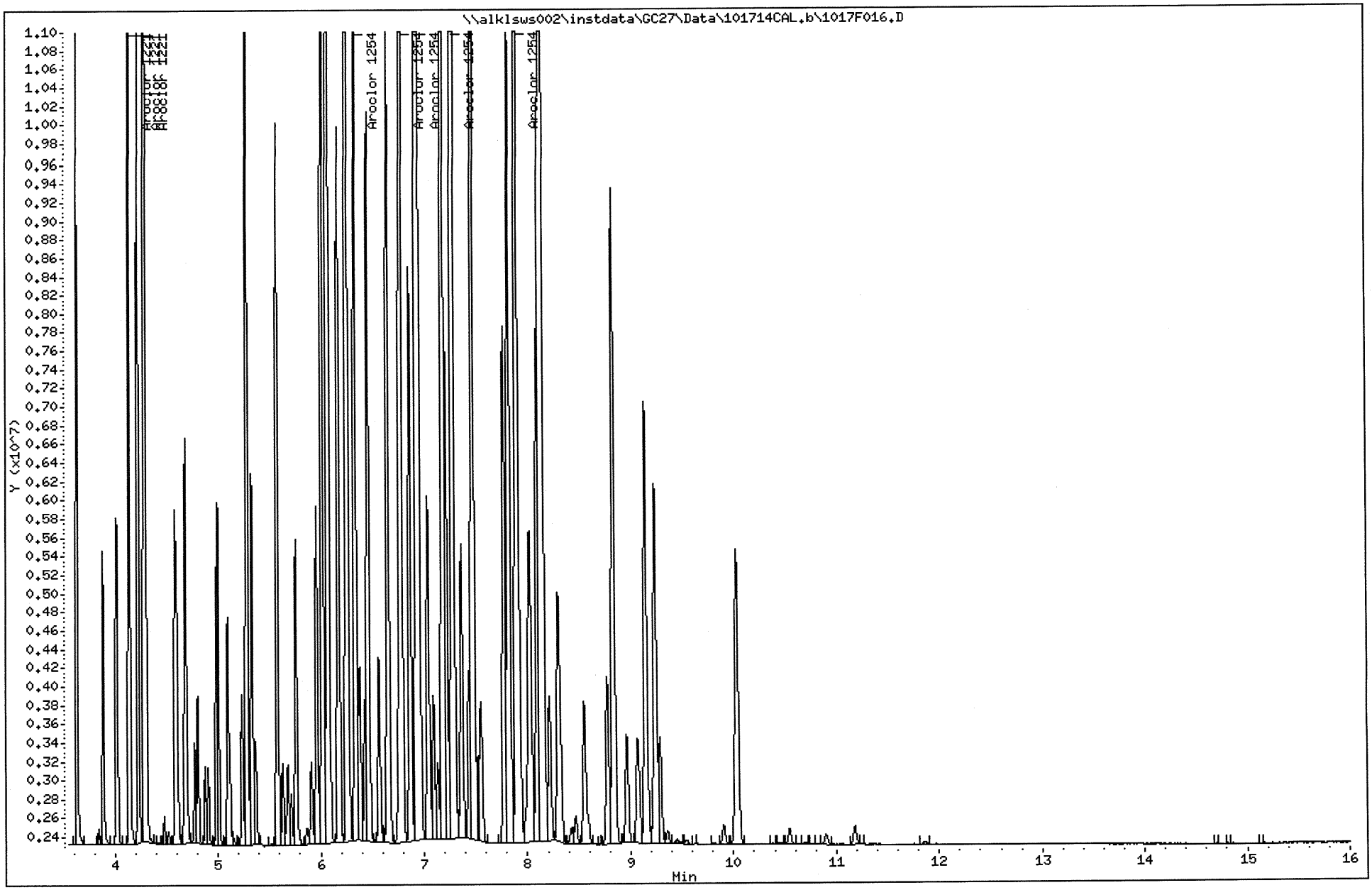
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



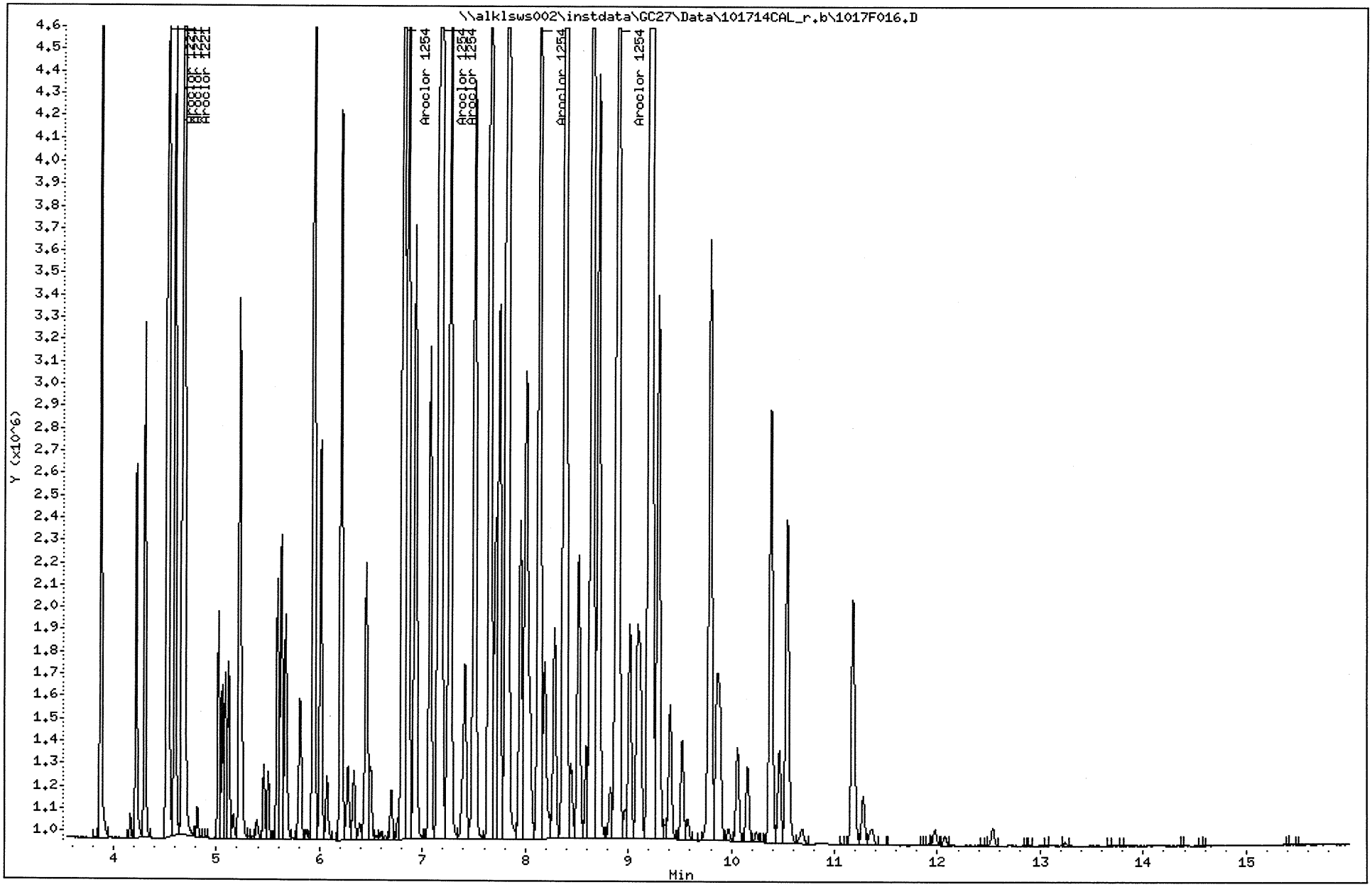
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

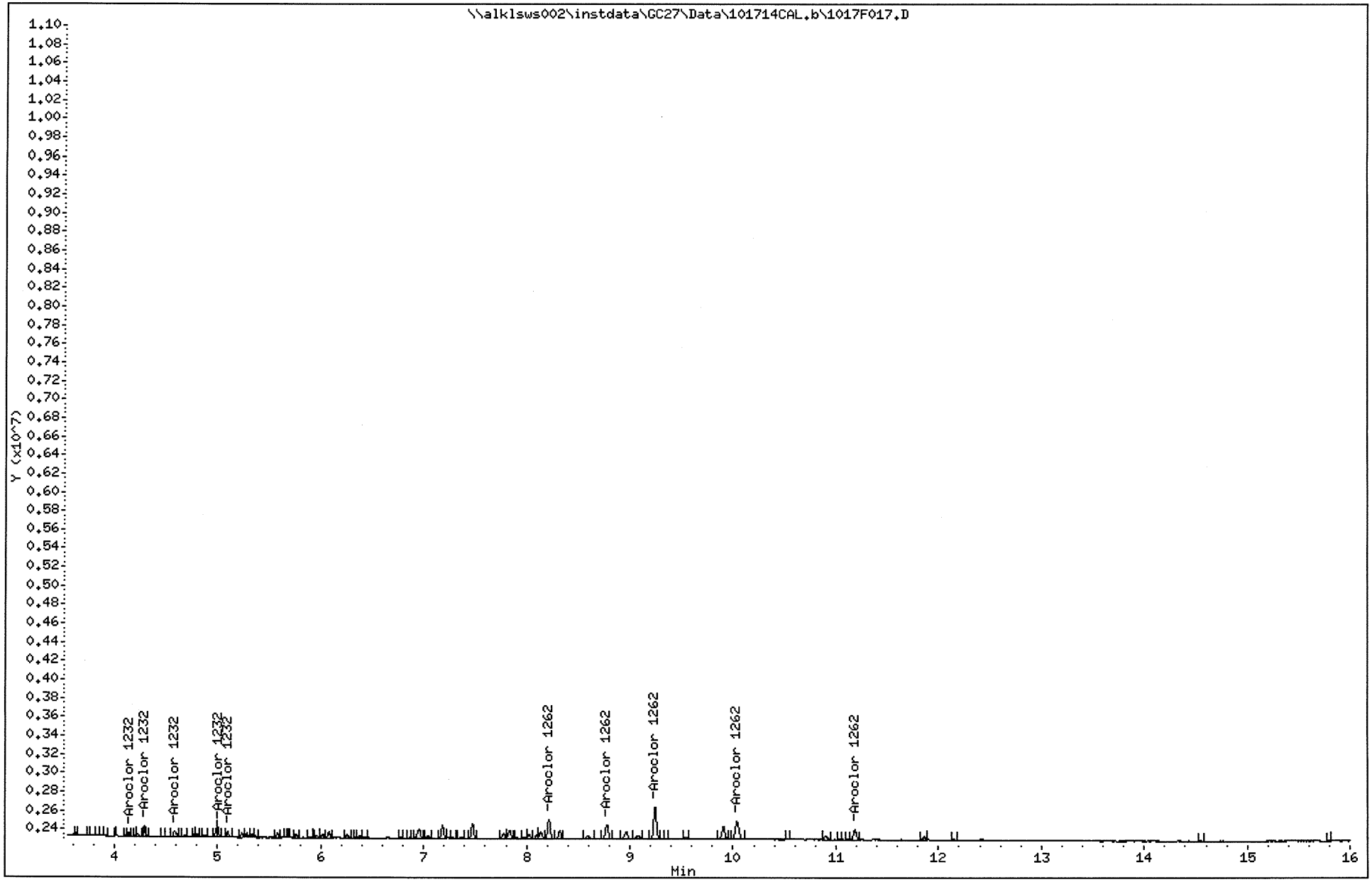
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



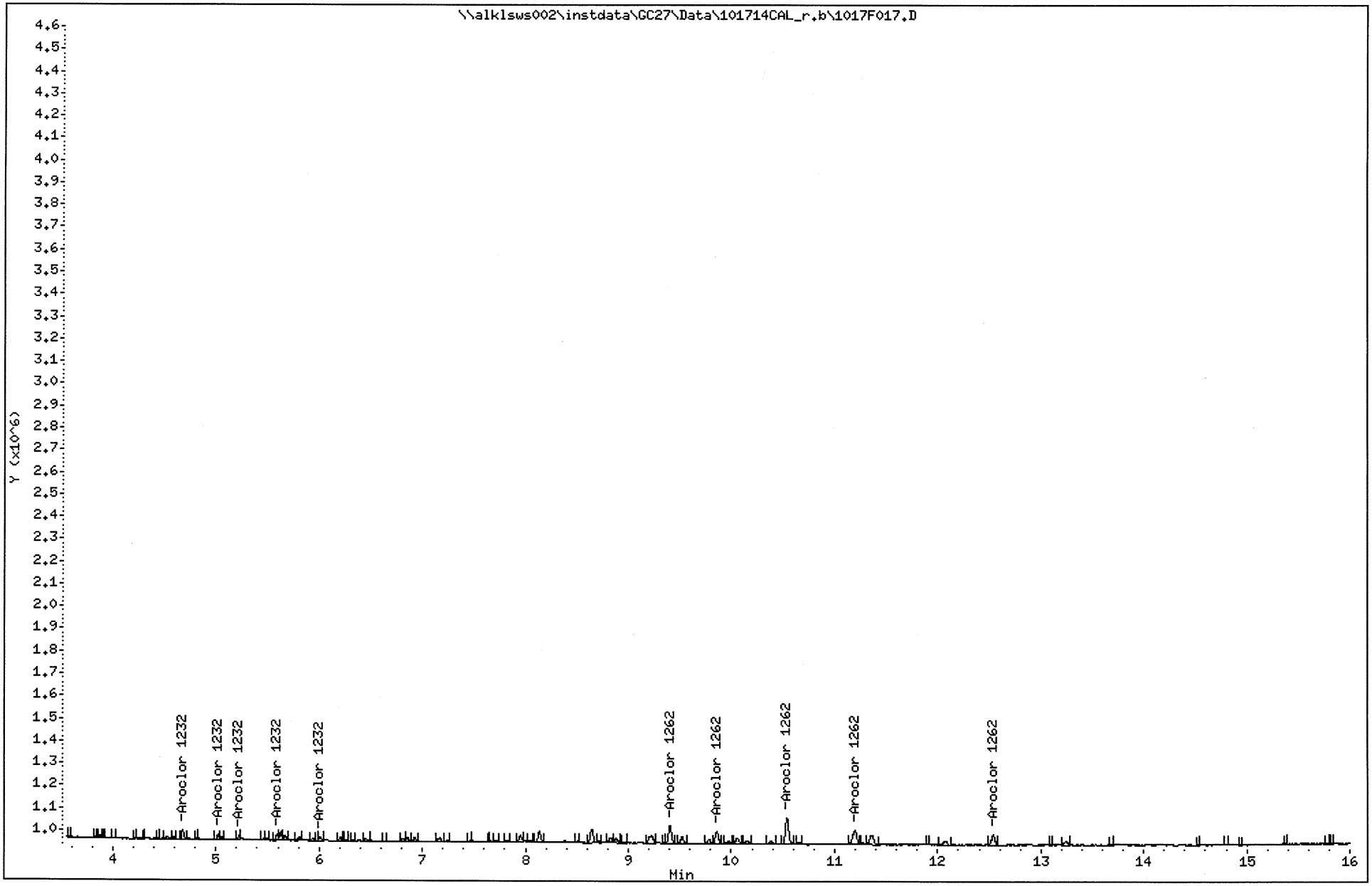
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

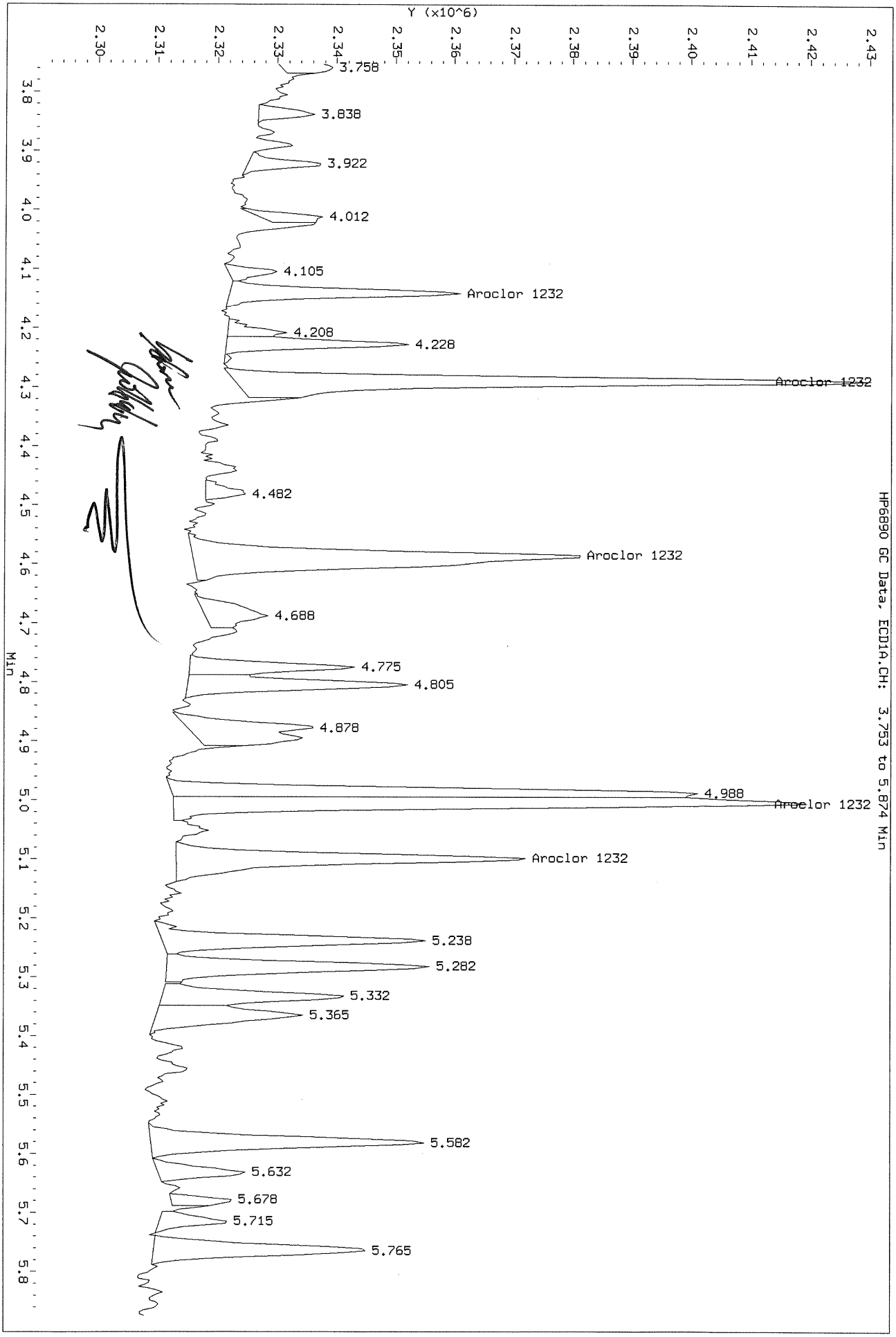
Operator: JMSmith

Column phase: DB-XLB

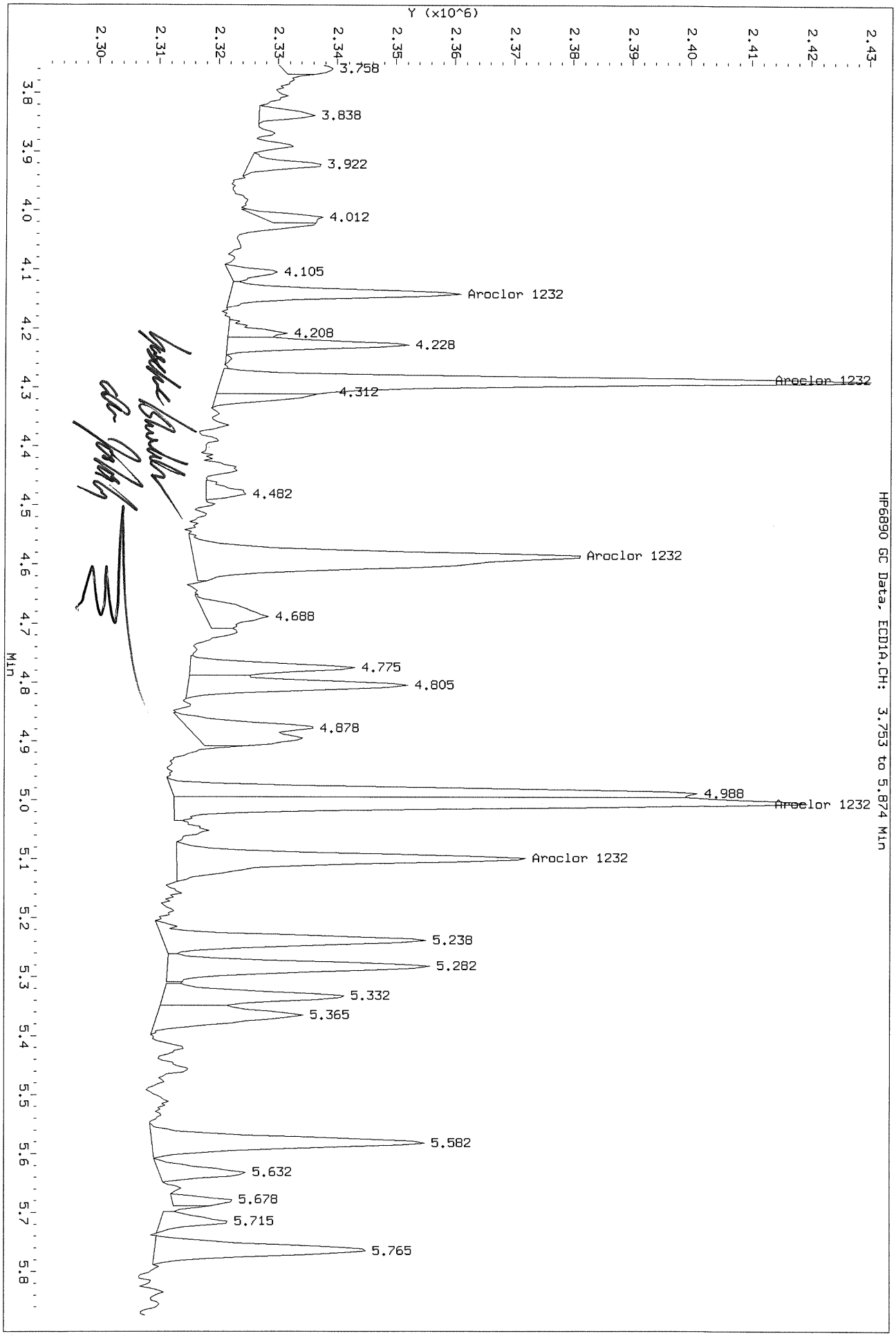
Column diameter: 0.32



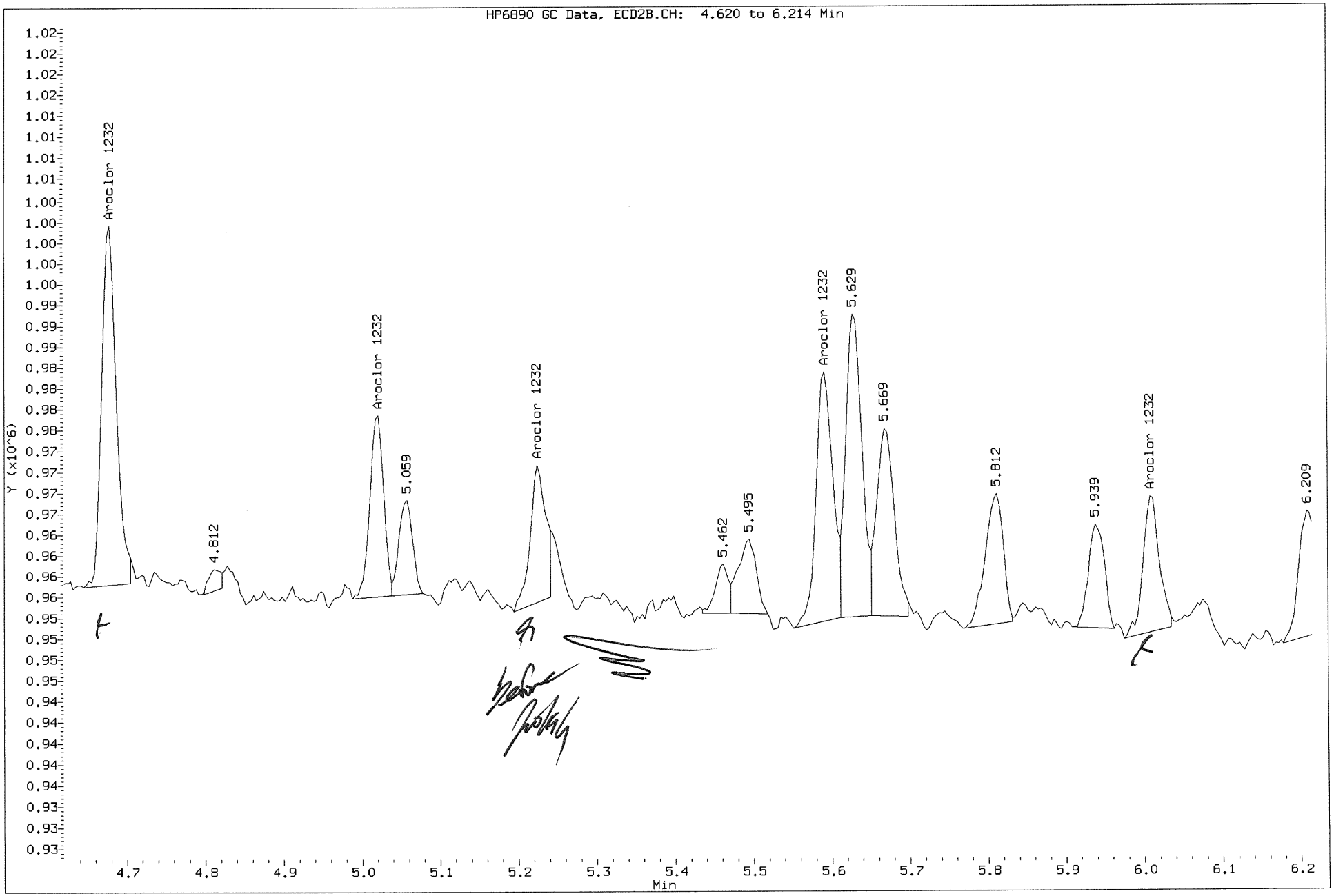
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



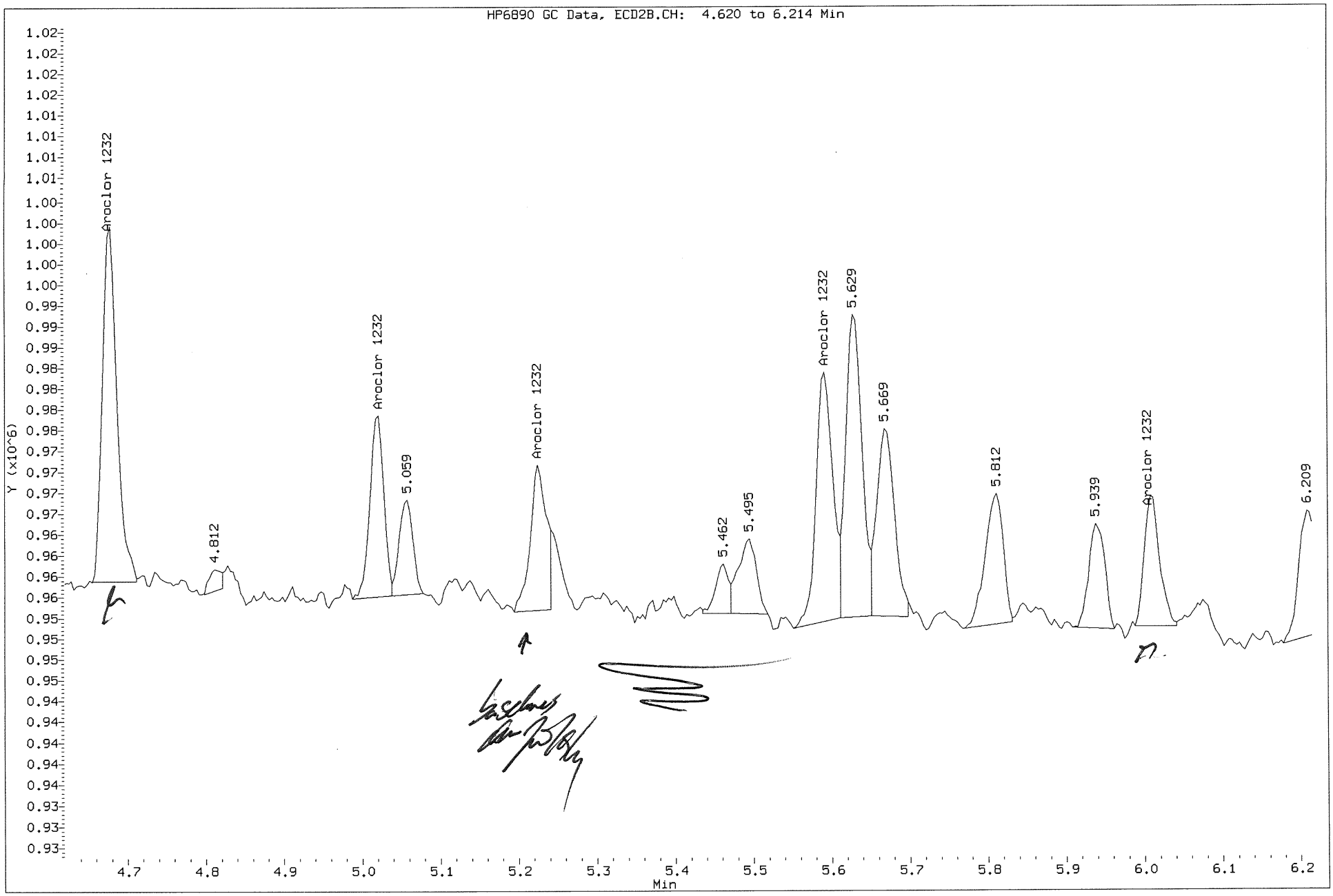
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

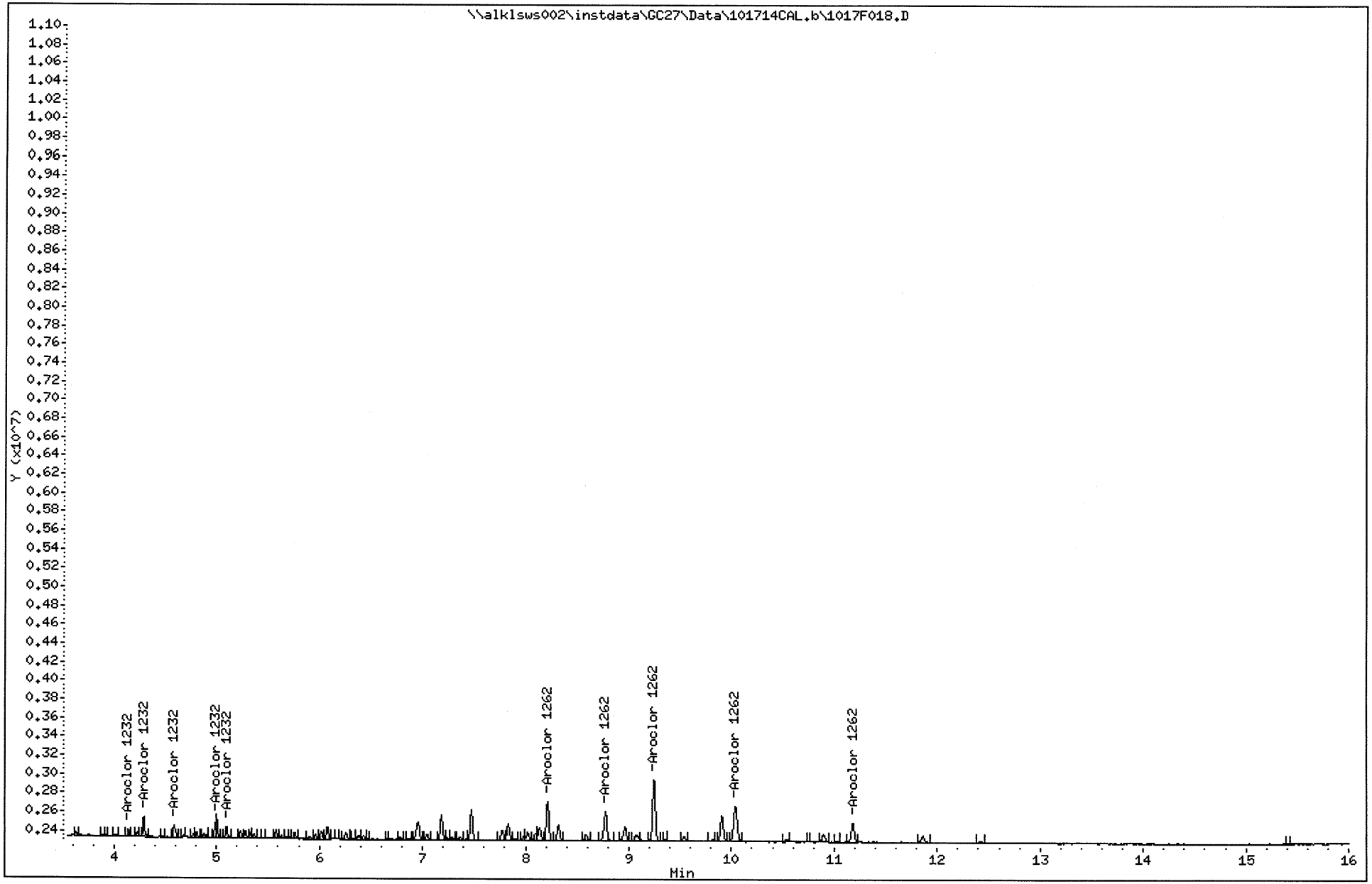
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



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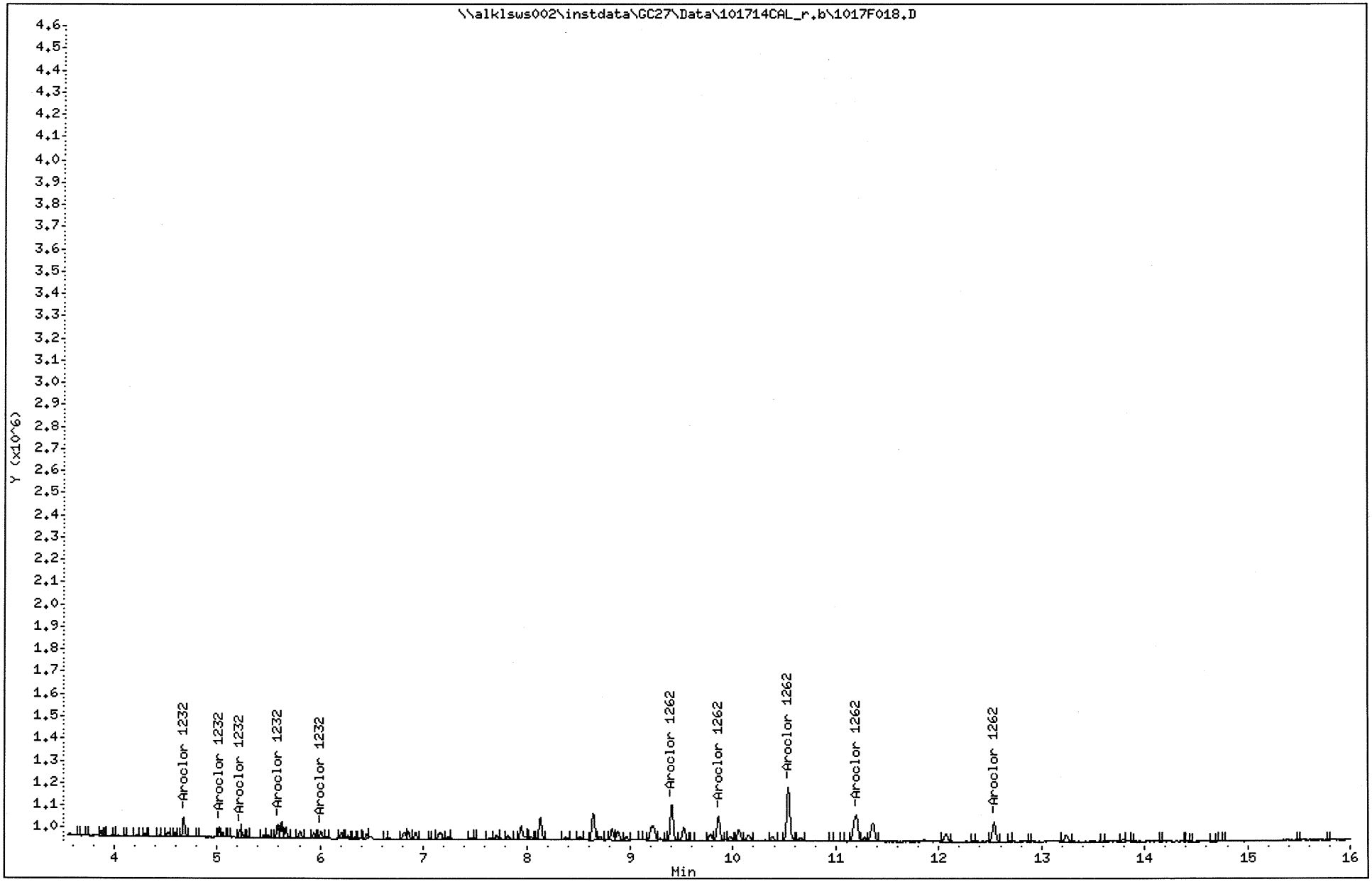
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



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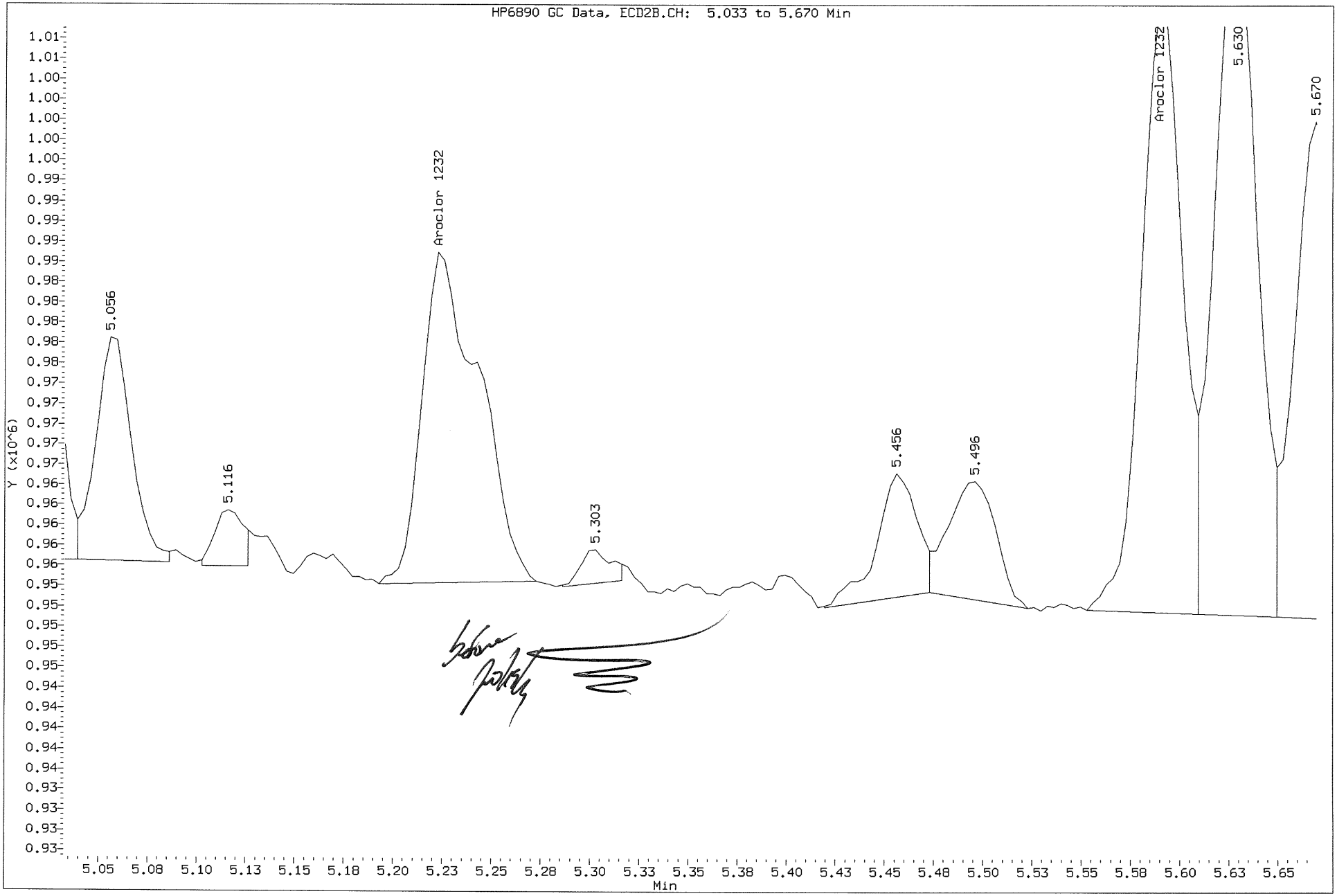
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



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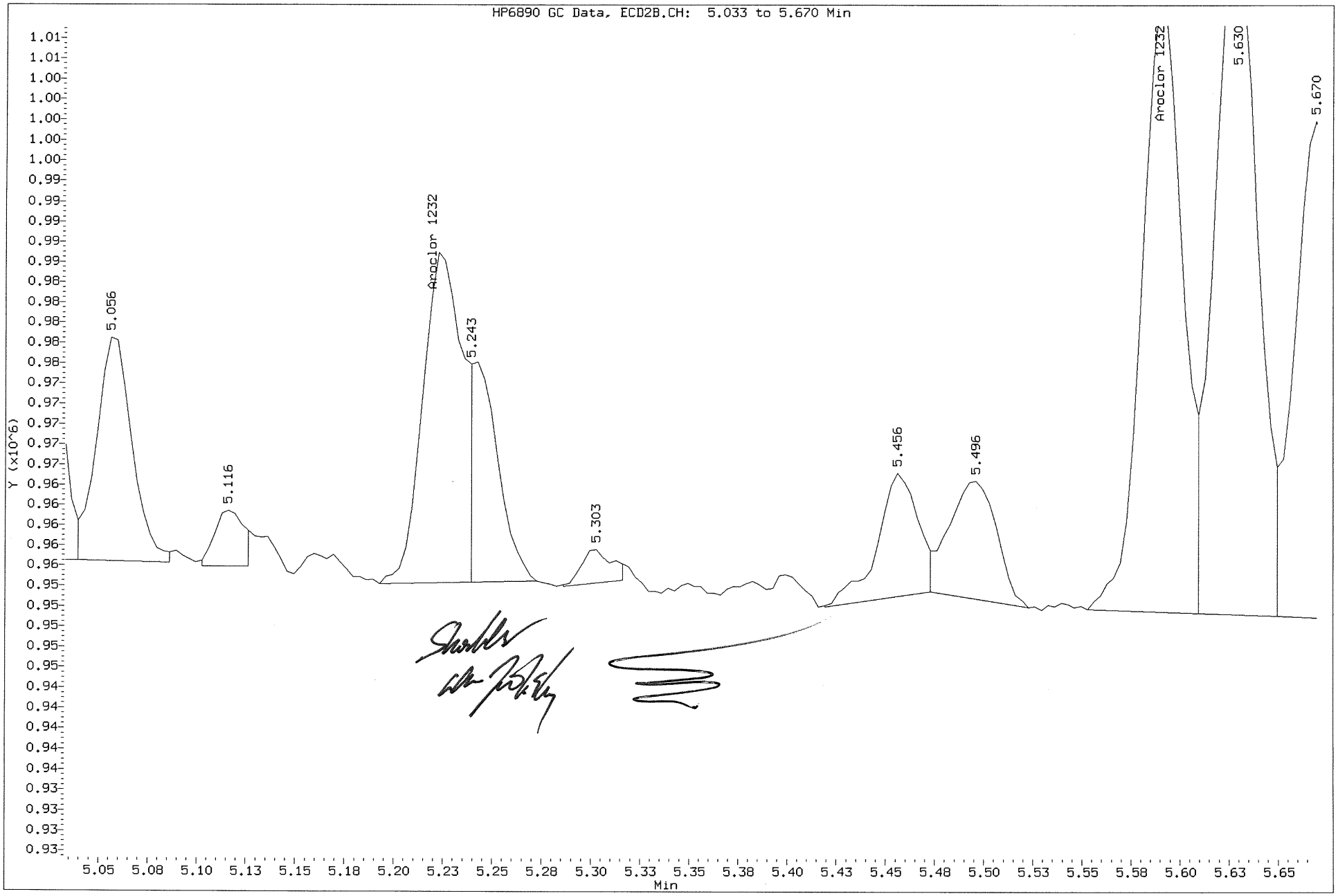
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



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Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

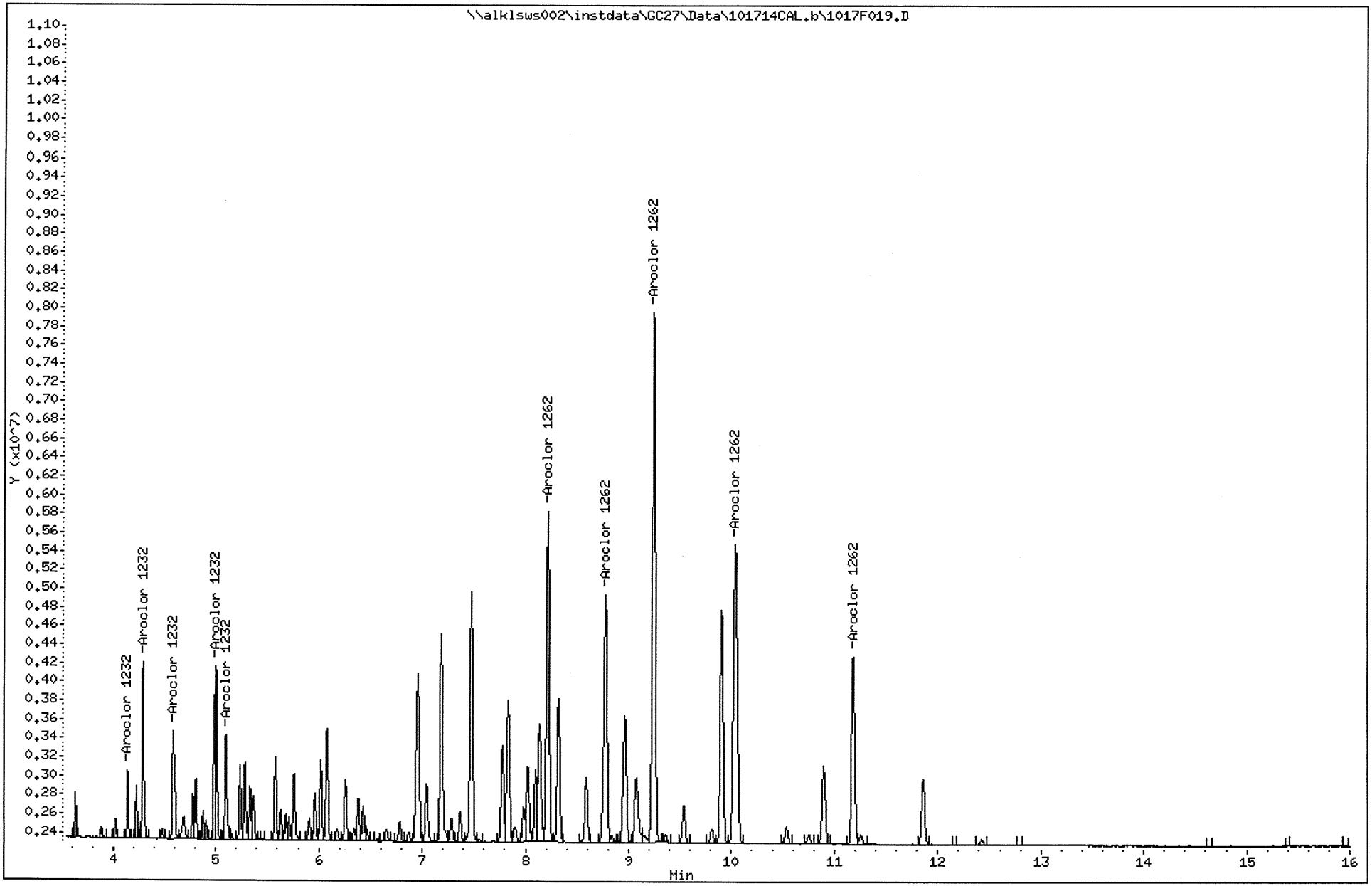
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

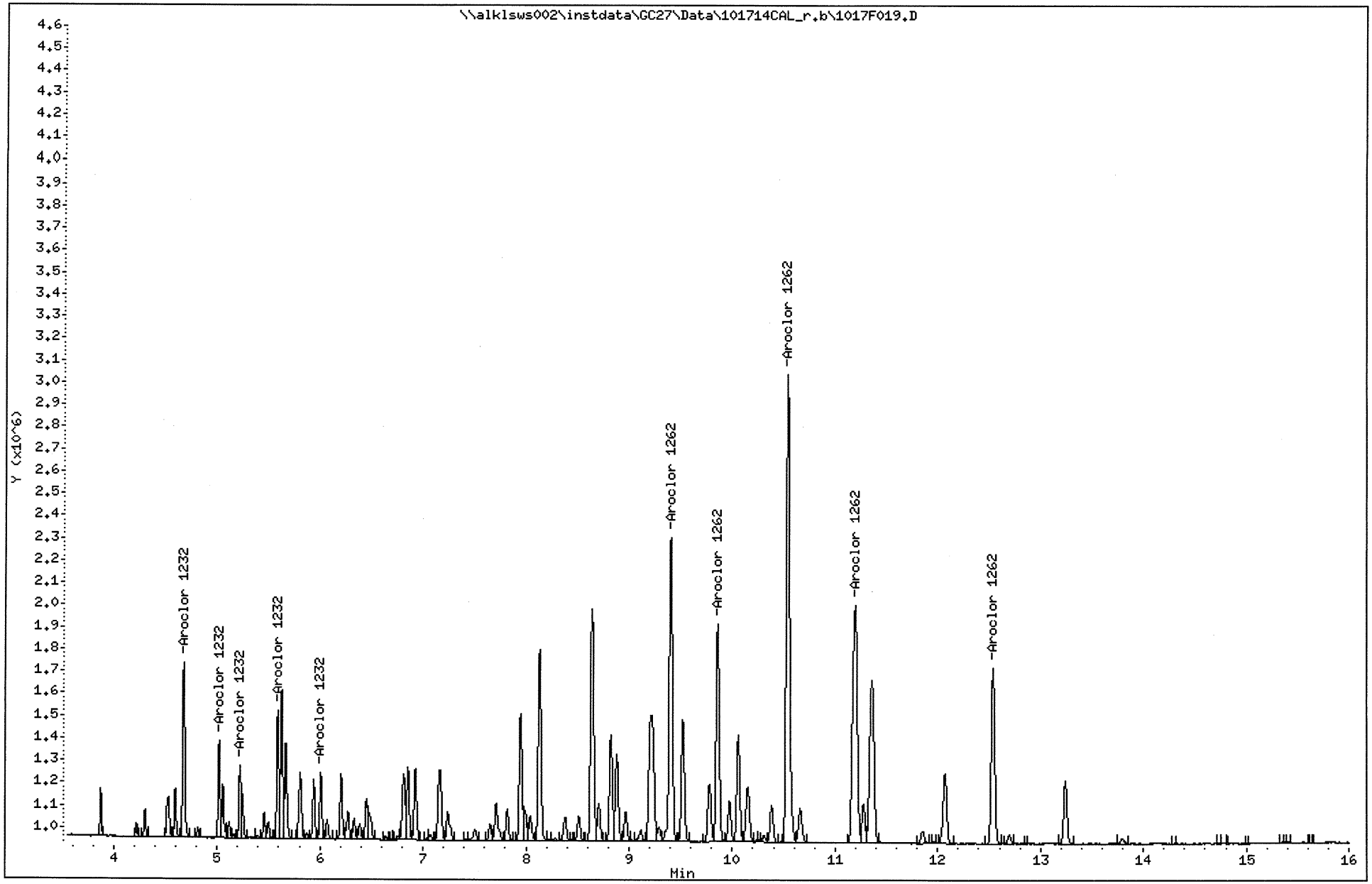


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Column phase: DB-XLB

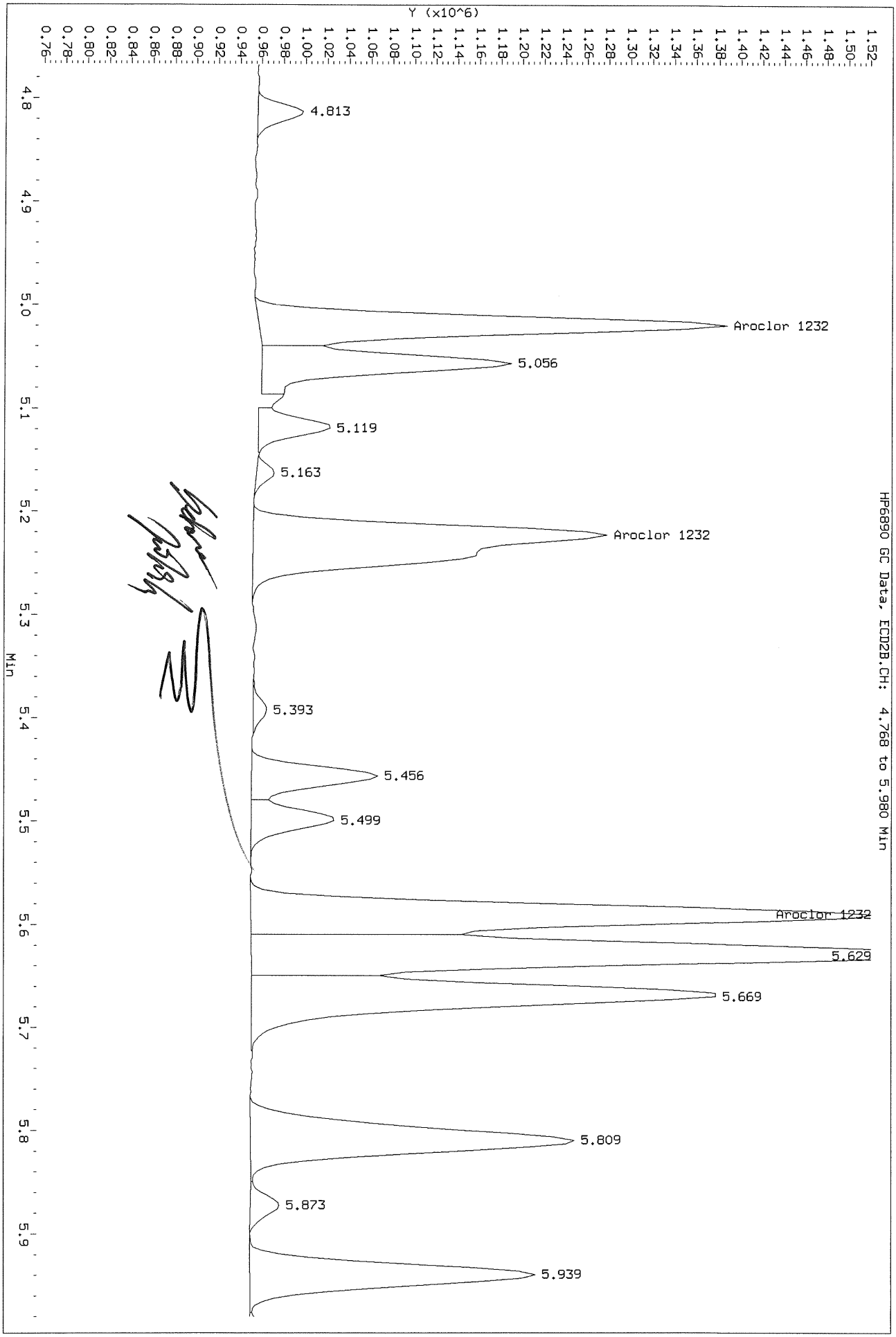
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



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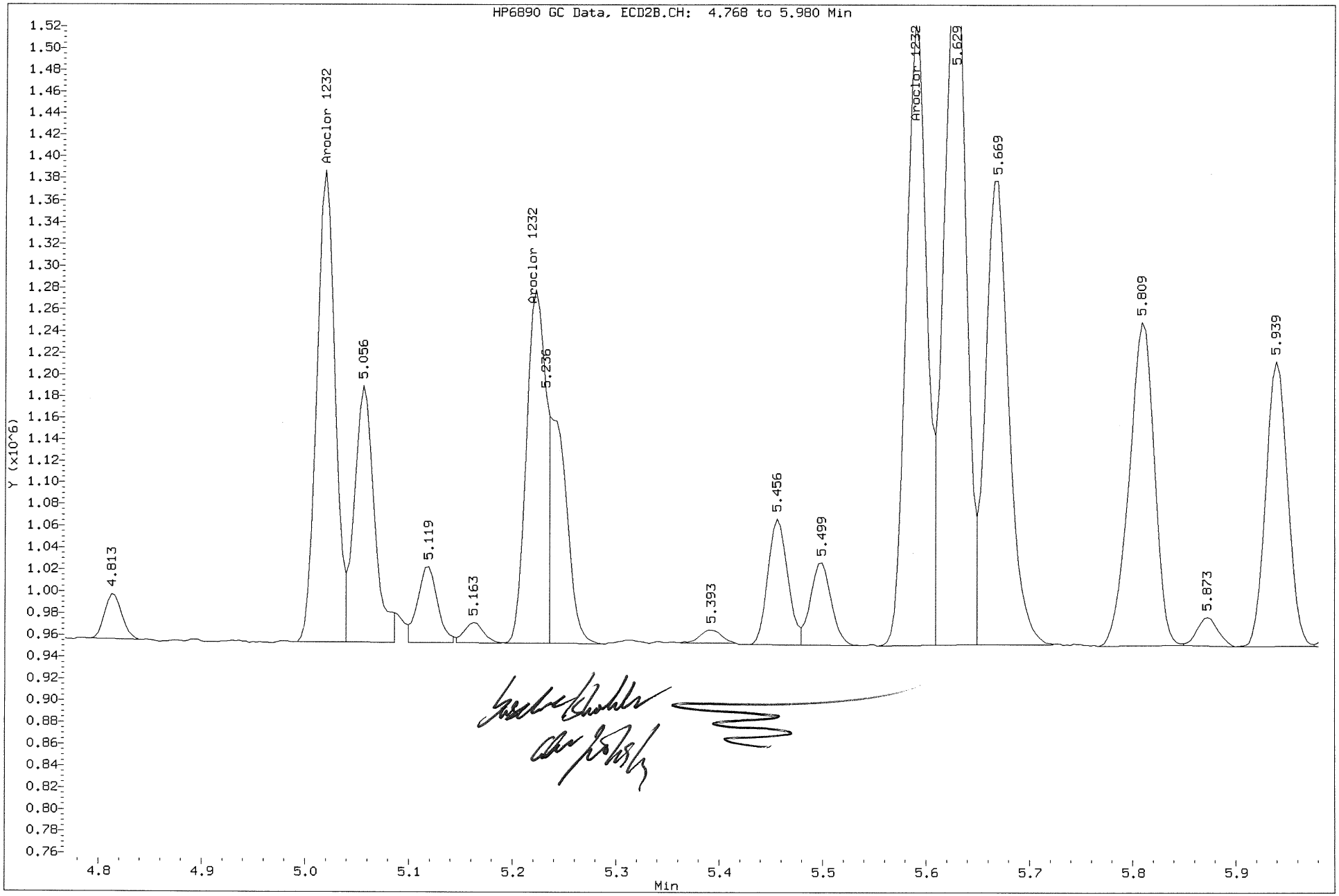
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

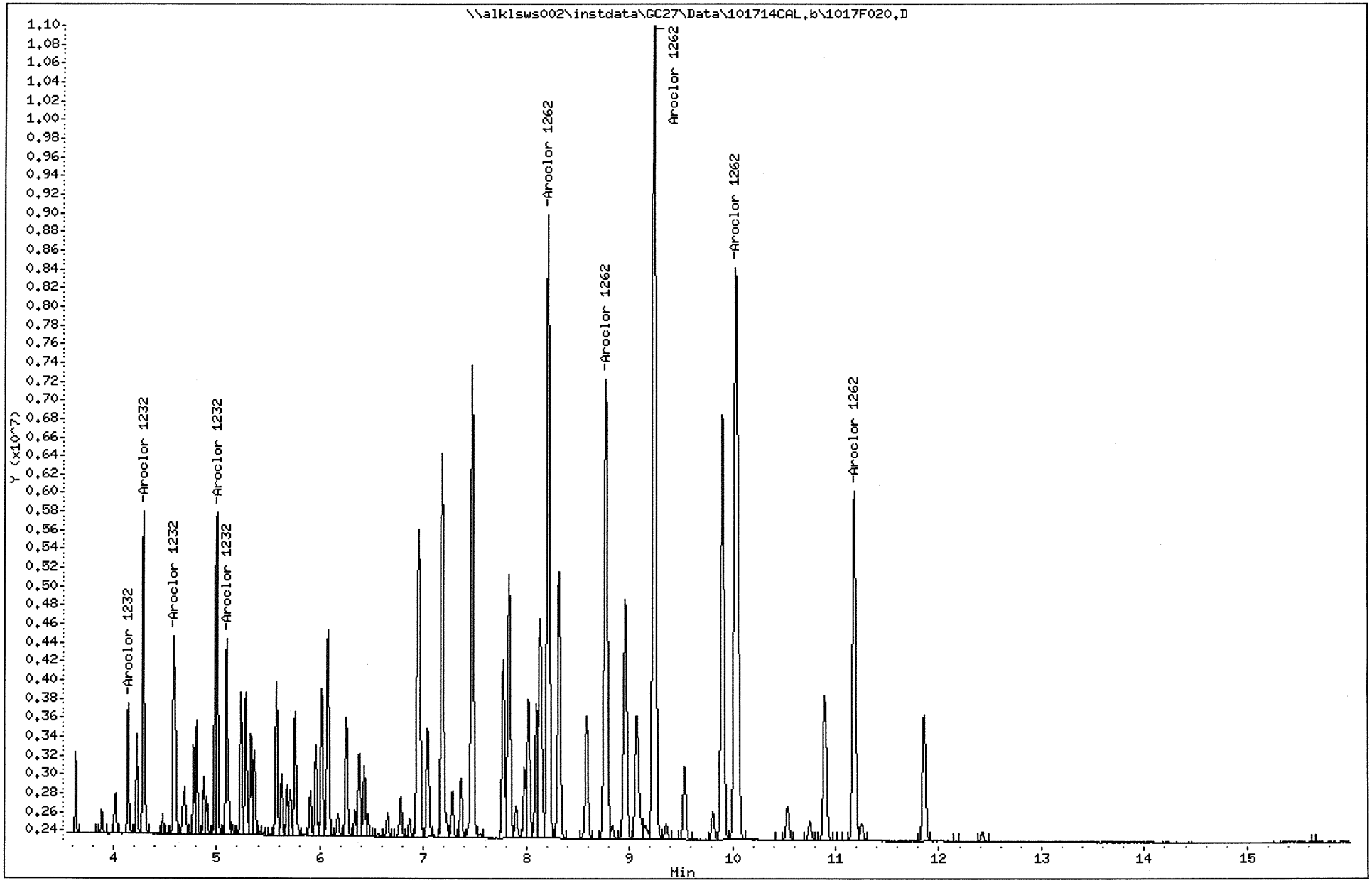
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

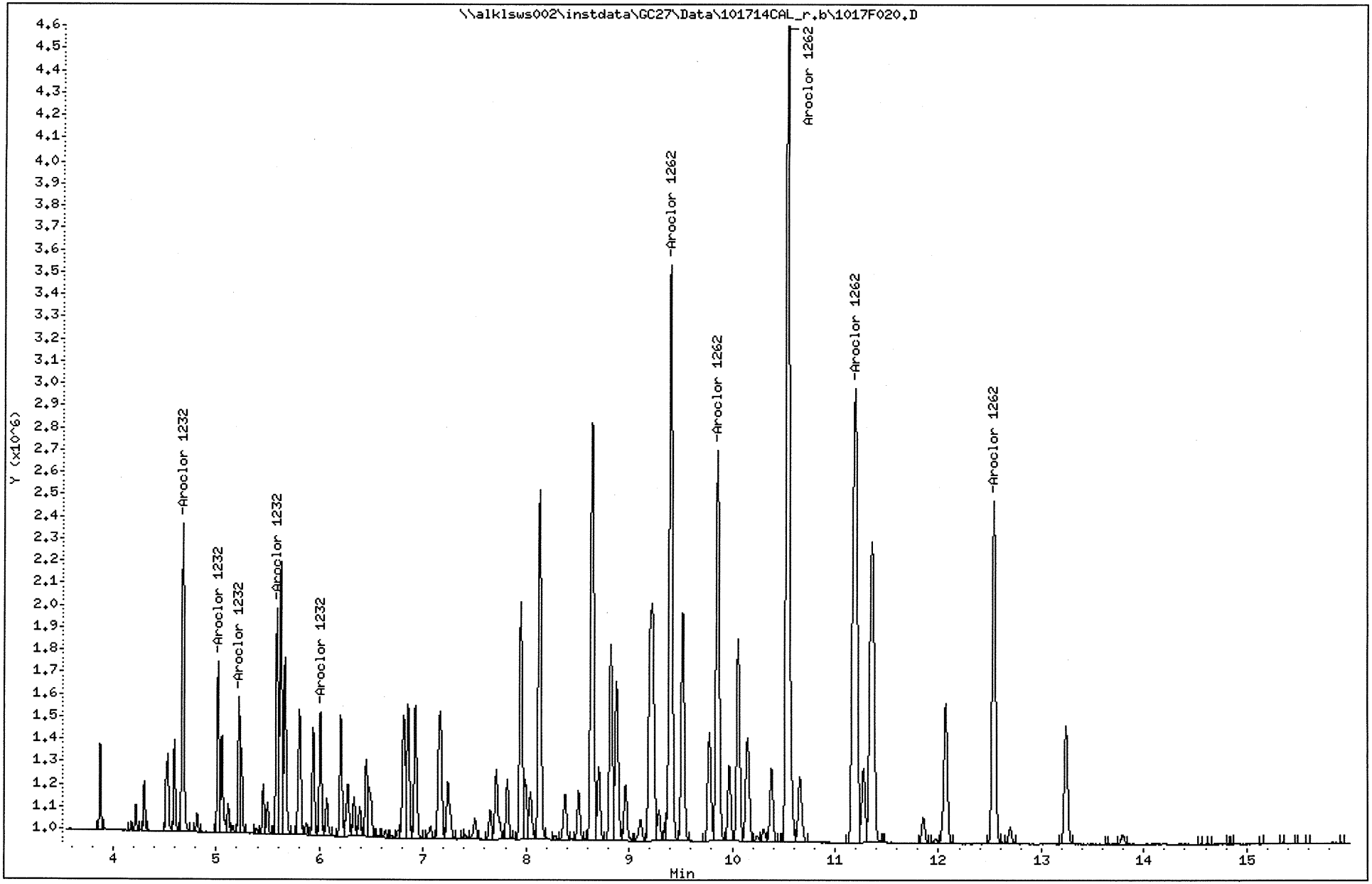


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

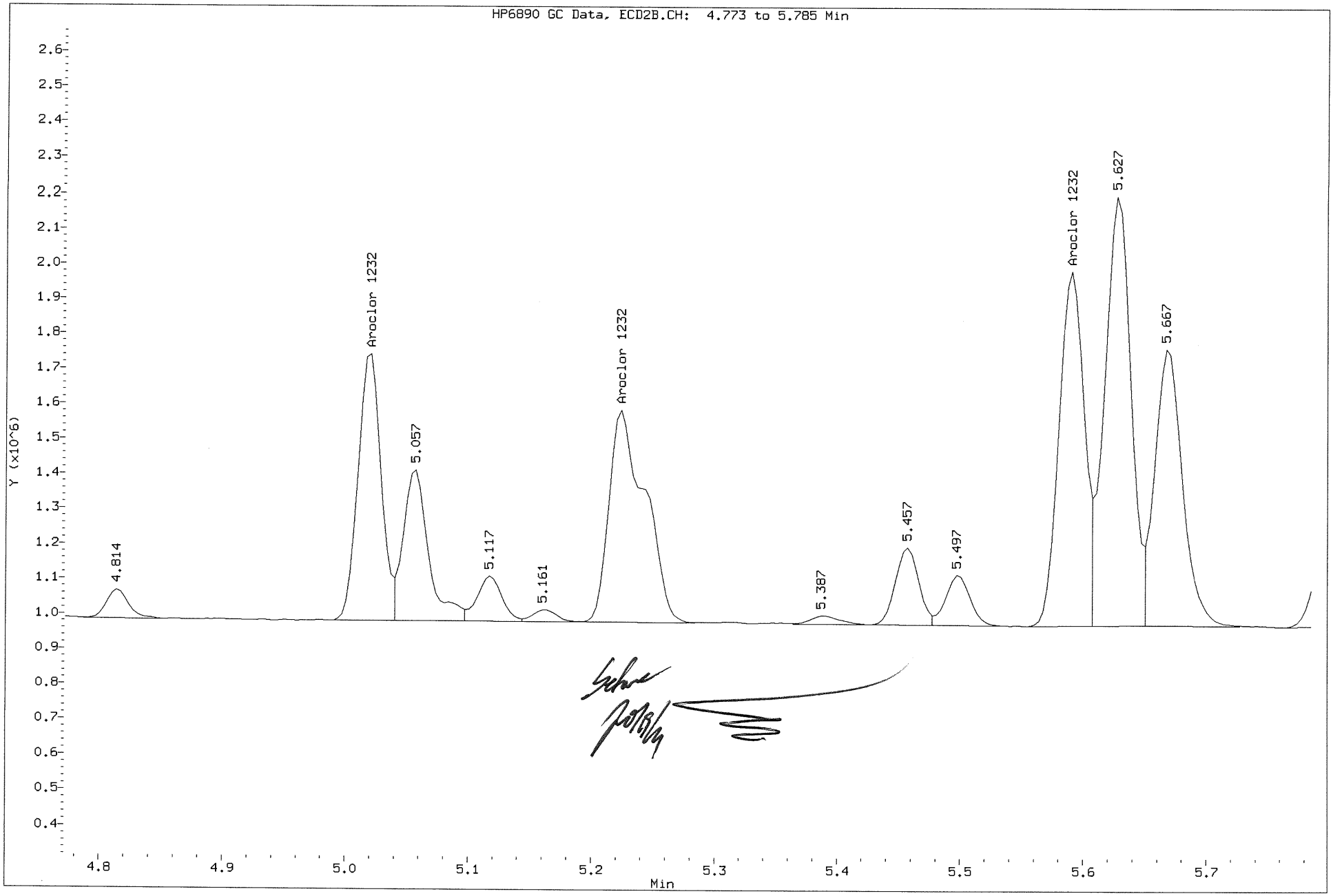
Column phase: DB-XLB

Instrument: GC27.i

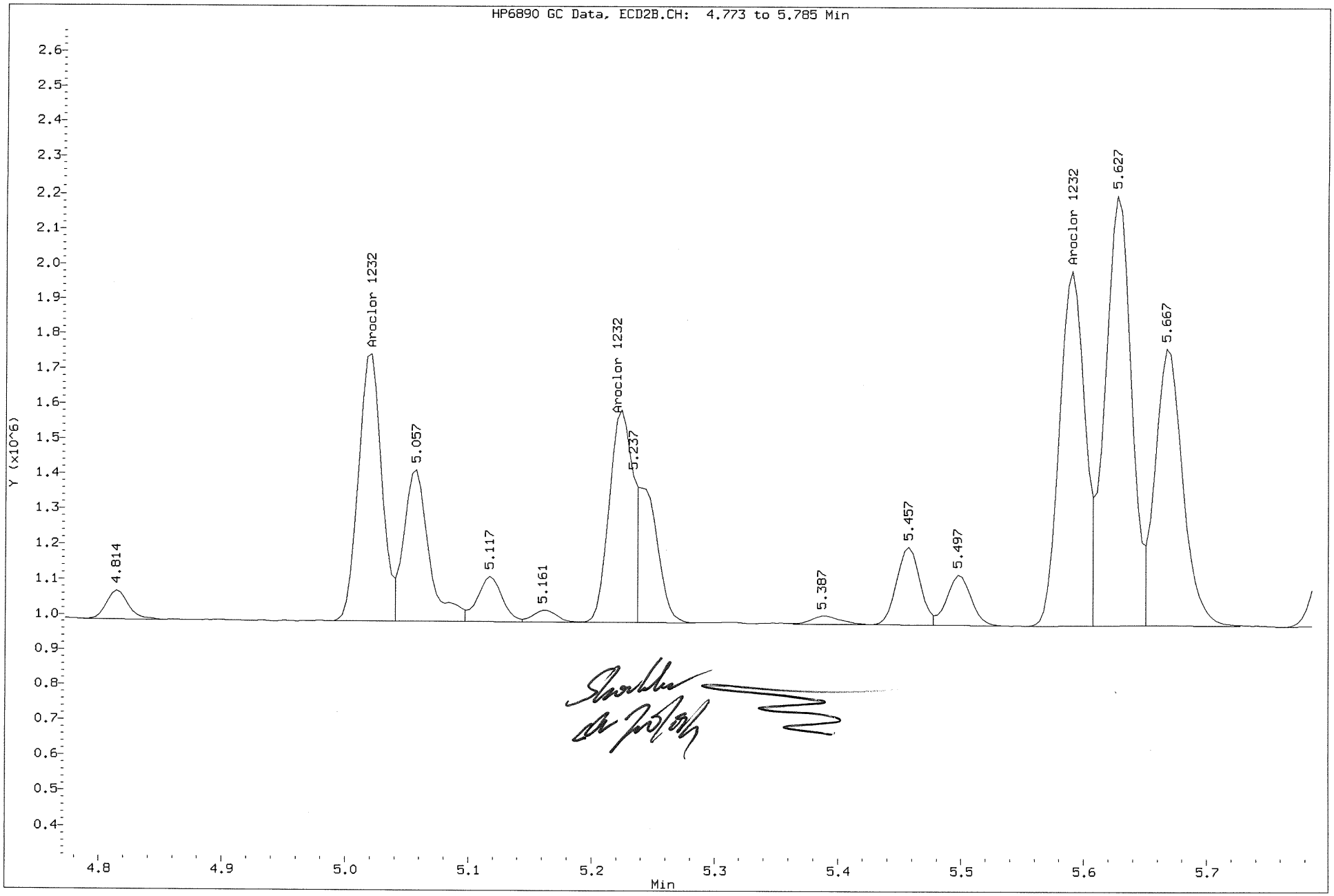
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

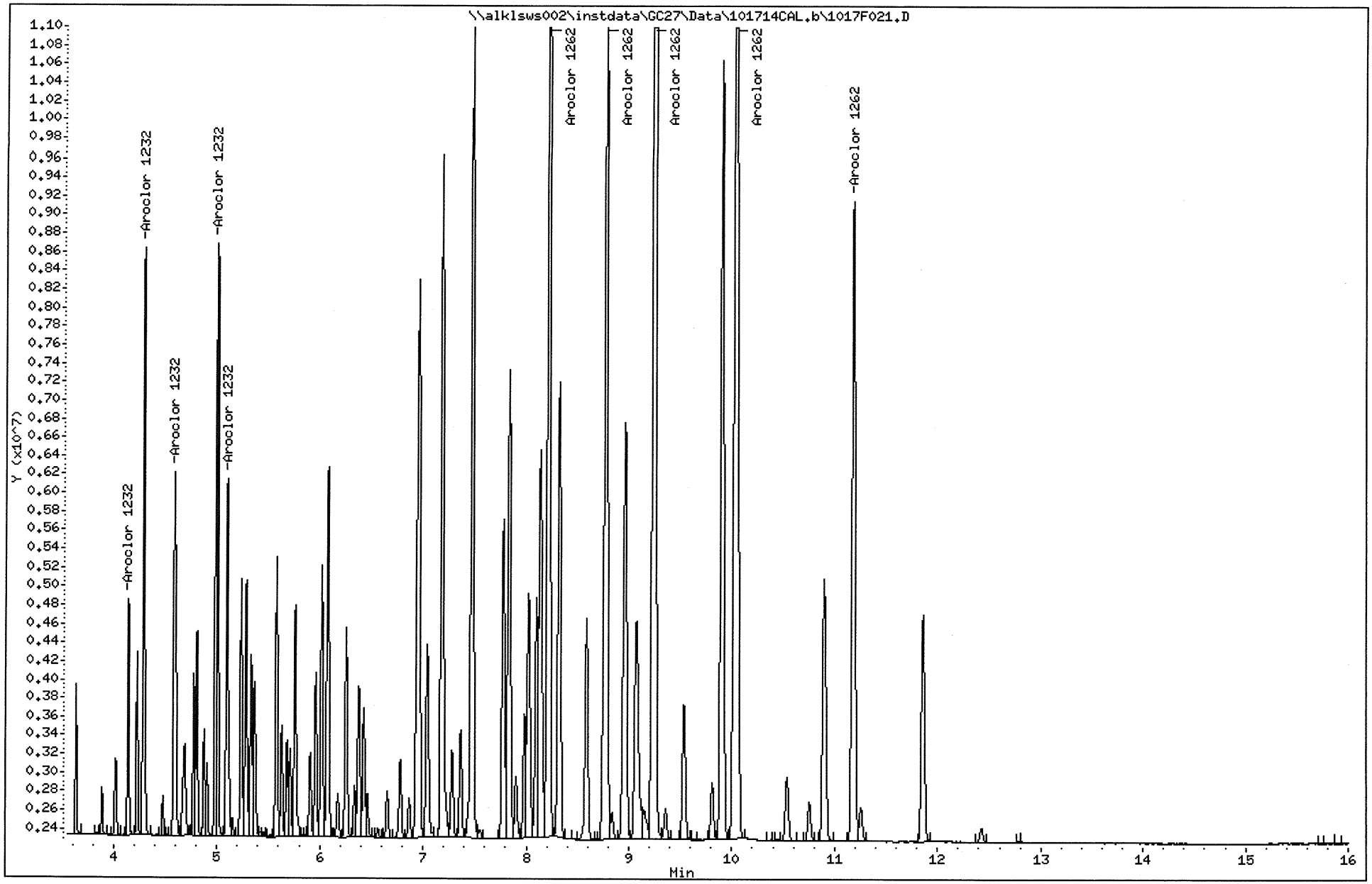
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

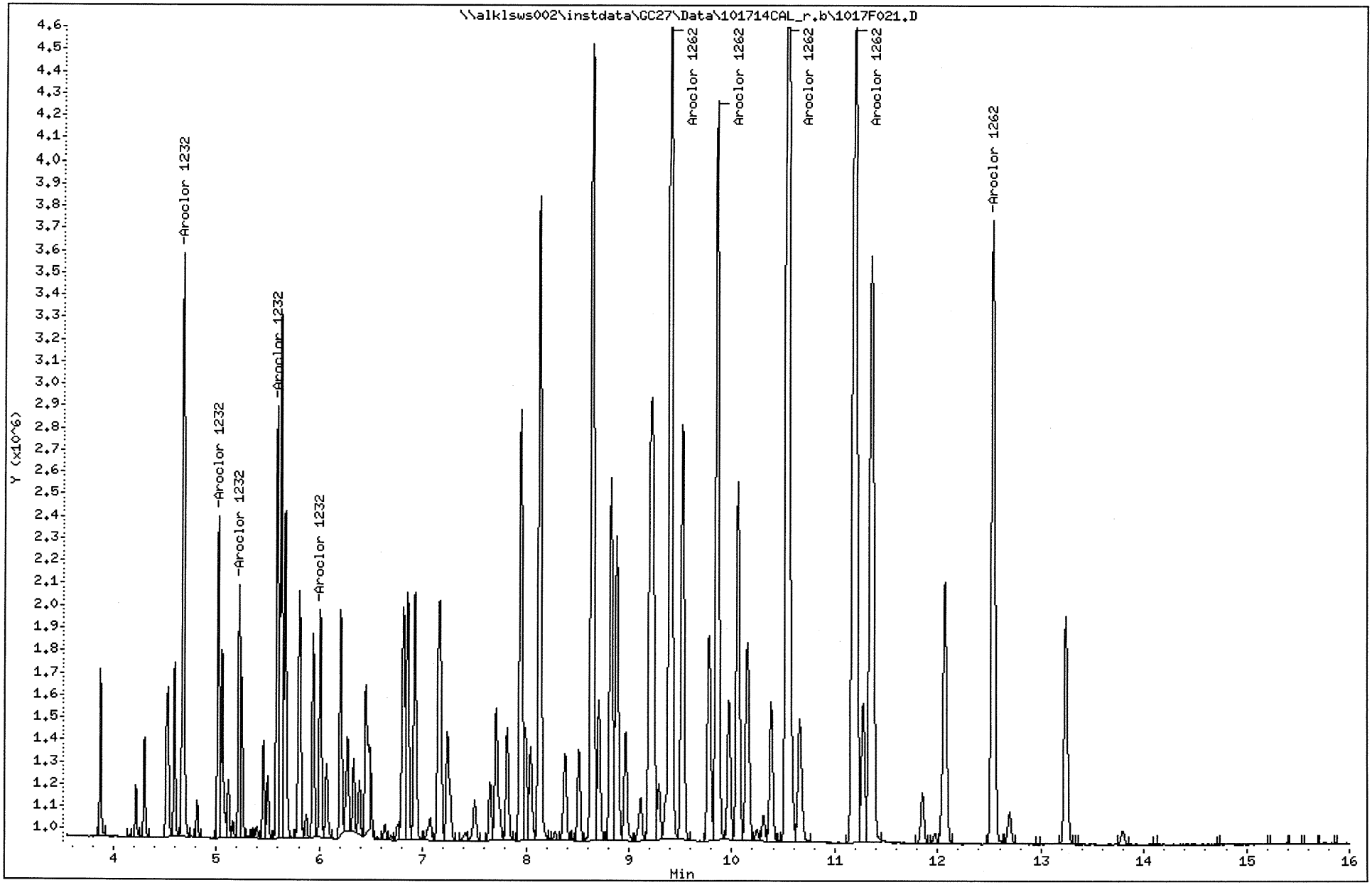


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



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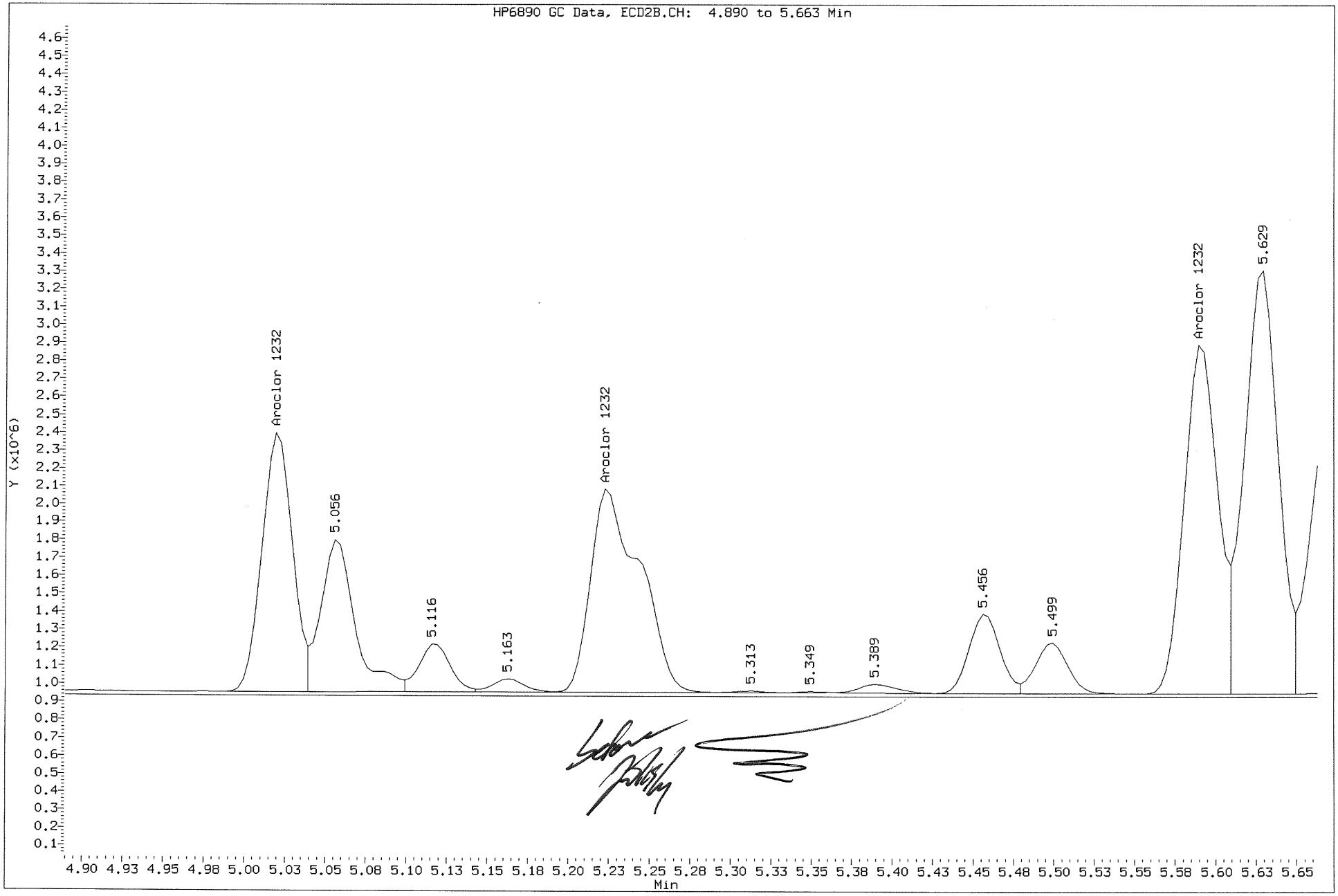
Instrument: GC27.i
Client Sample ID:



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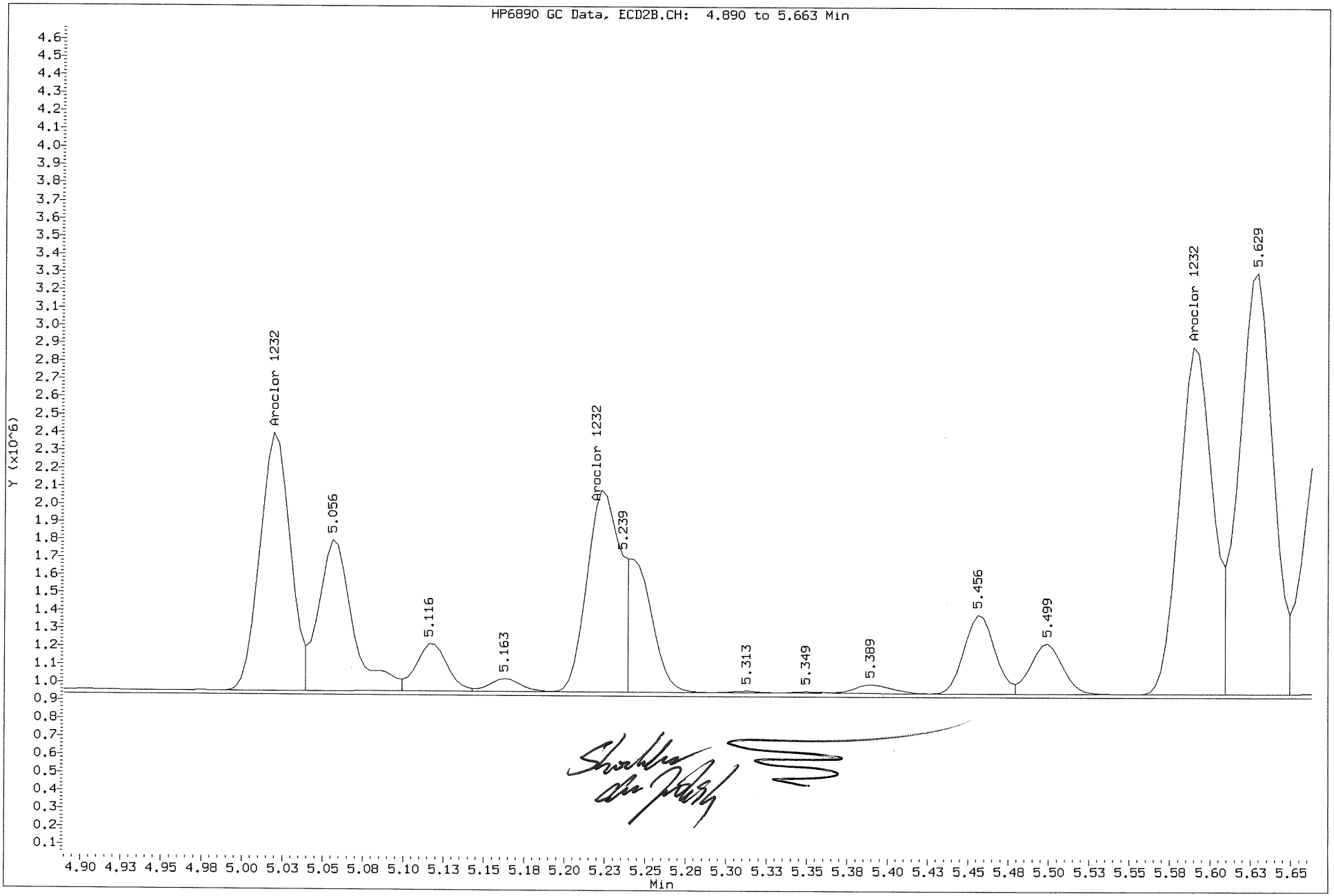
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



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Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

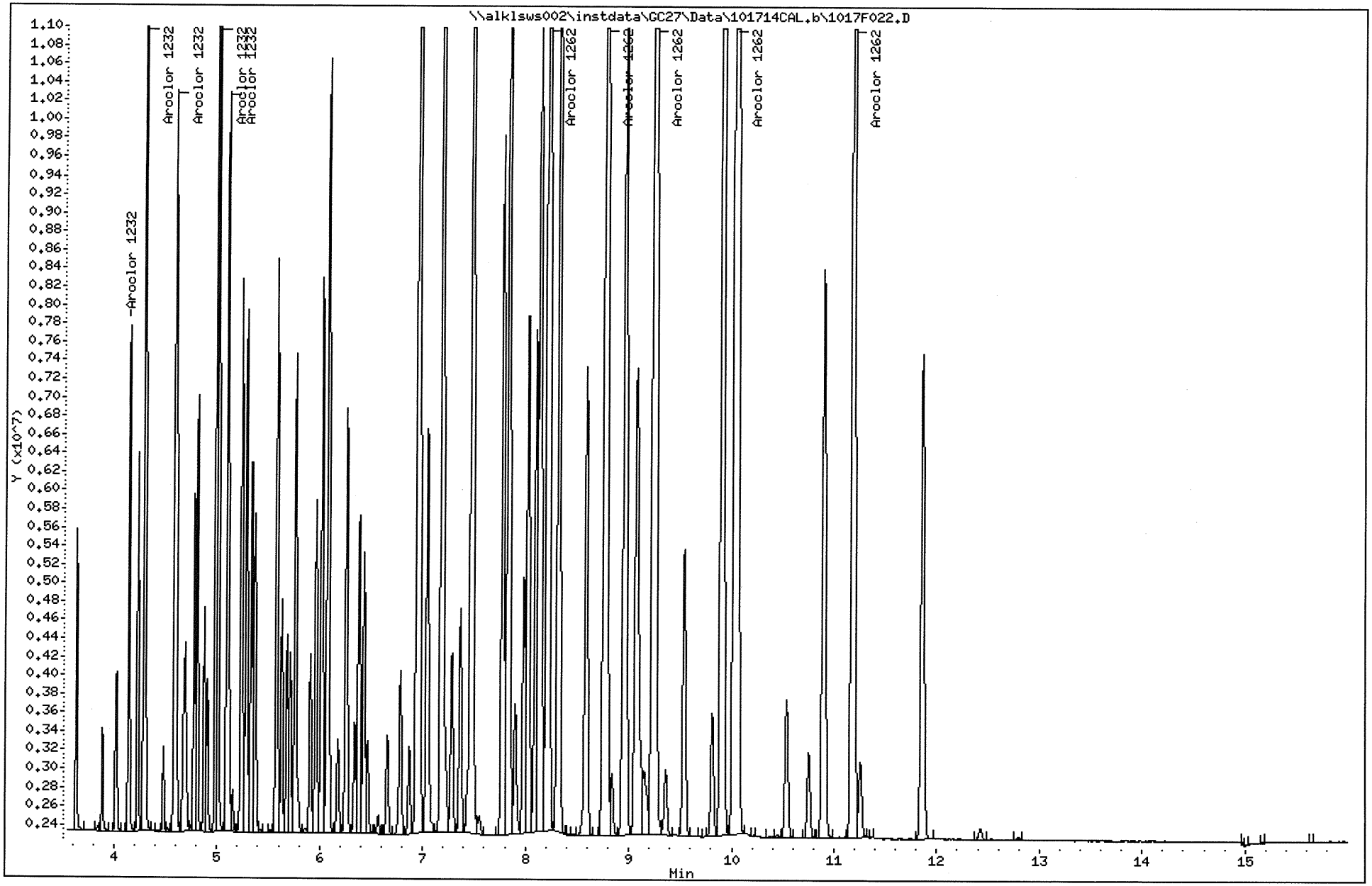
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



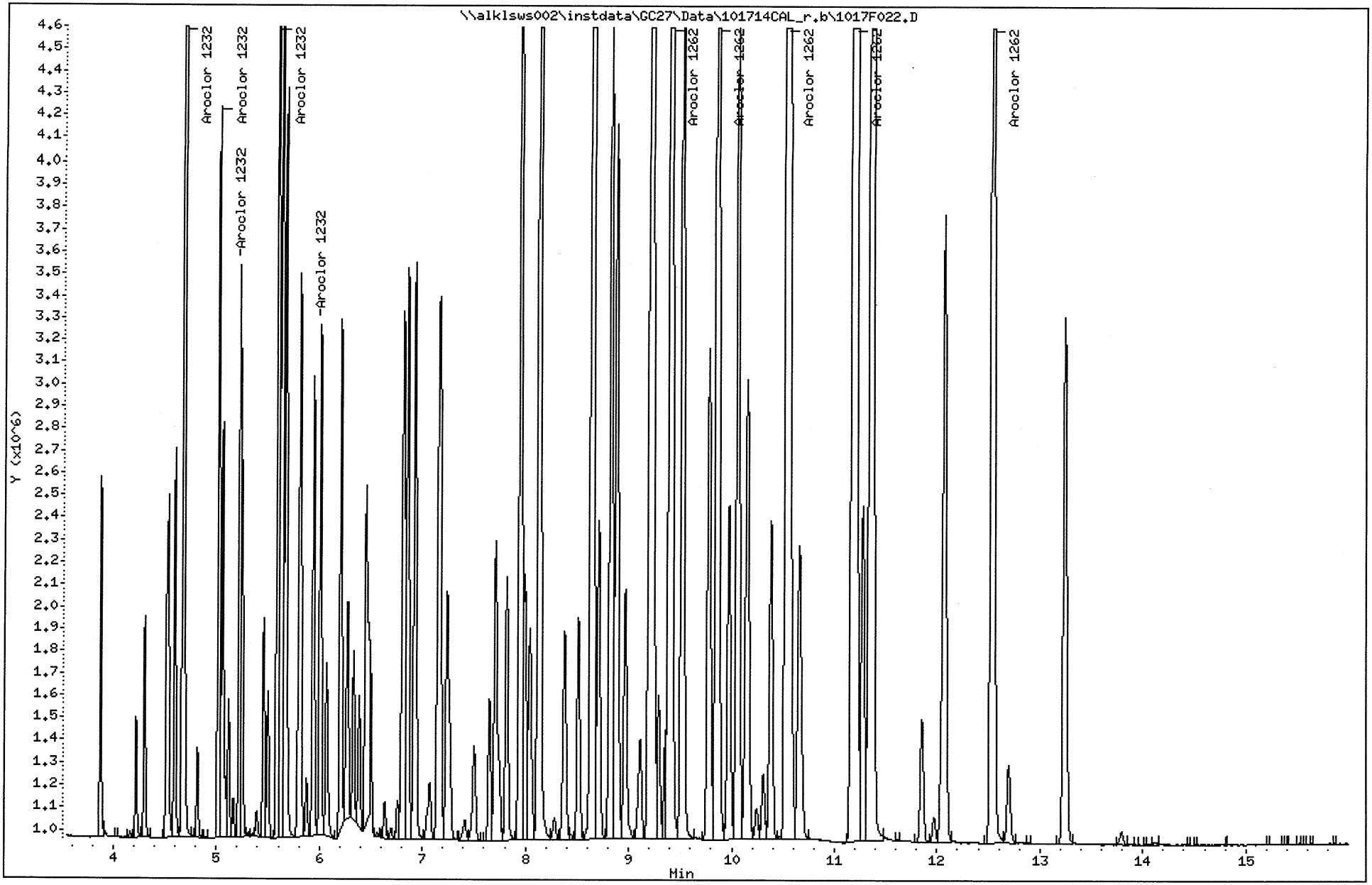
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

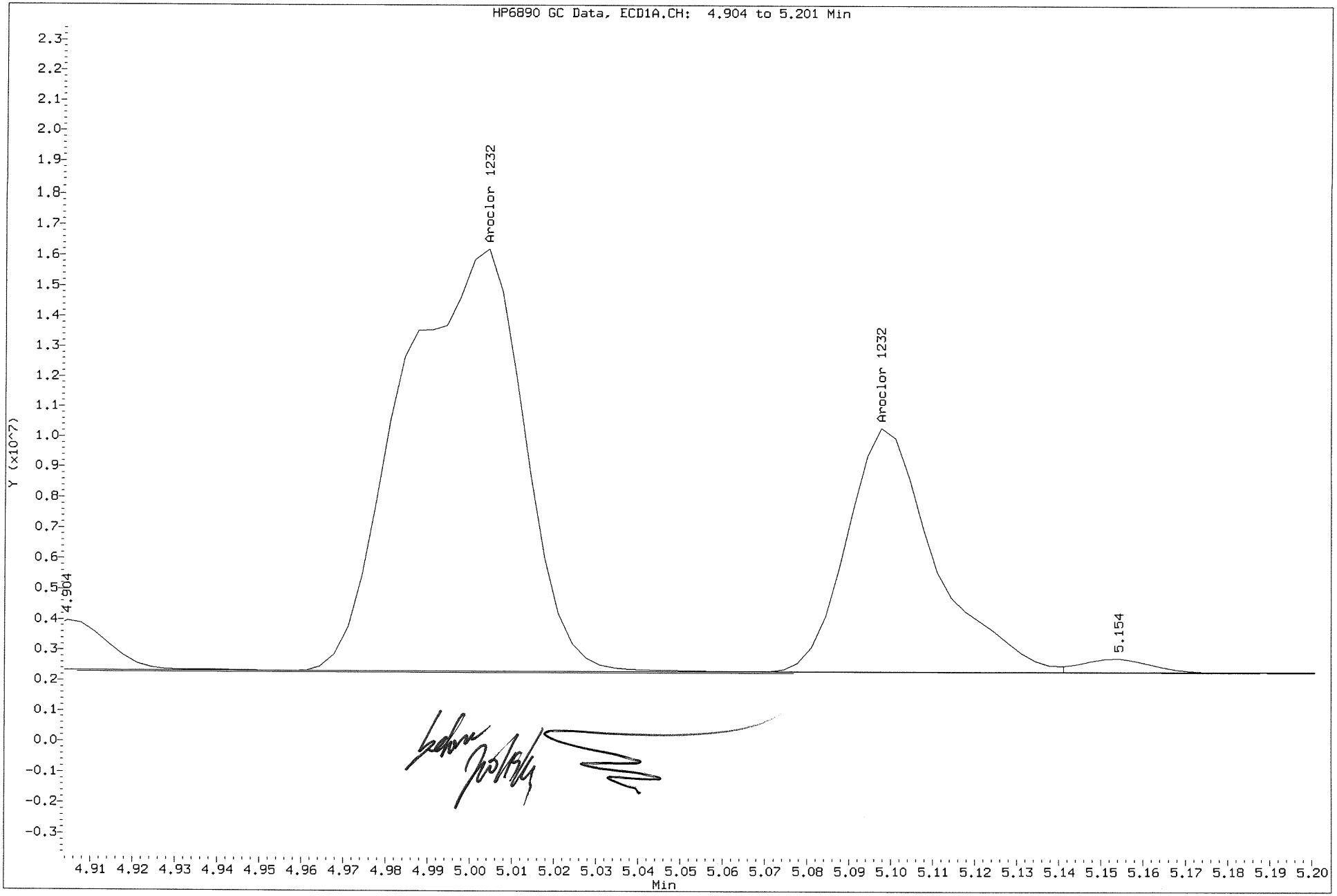
Operator: JMSmith

Column phase: DB-XLB

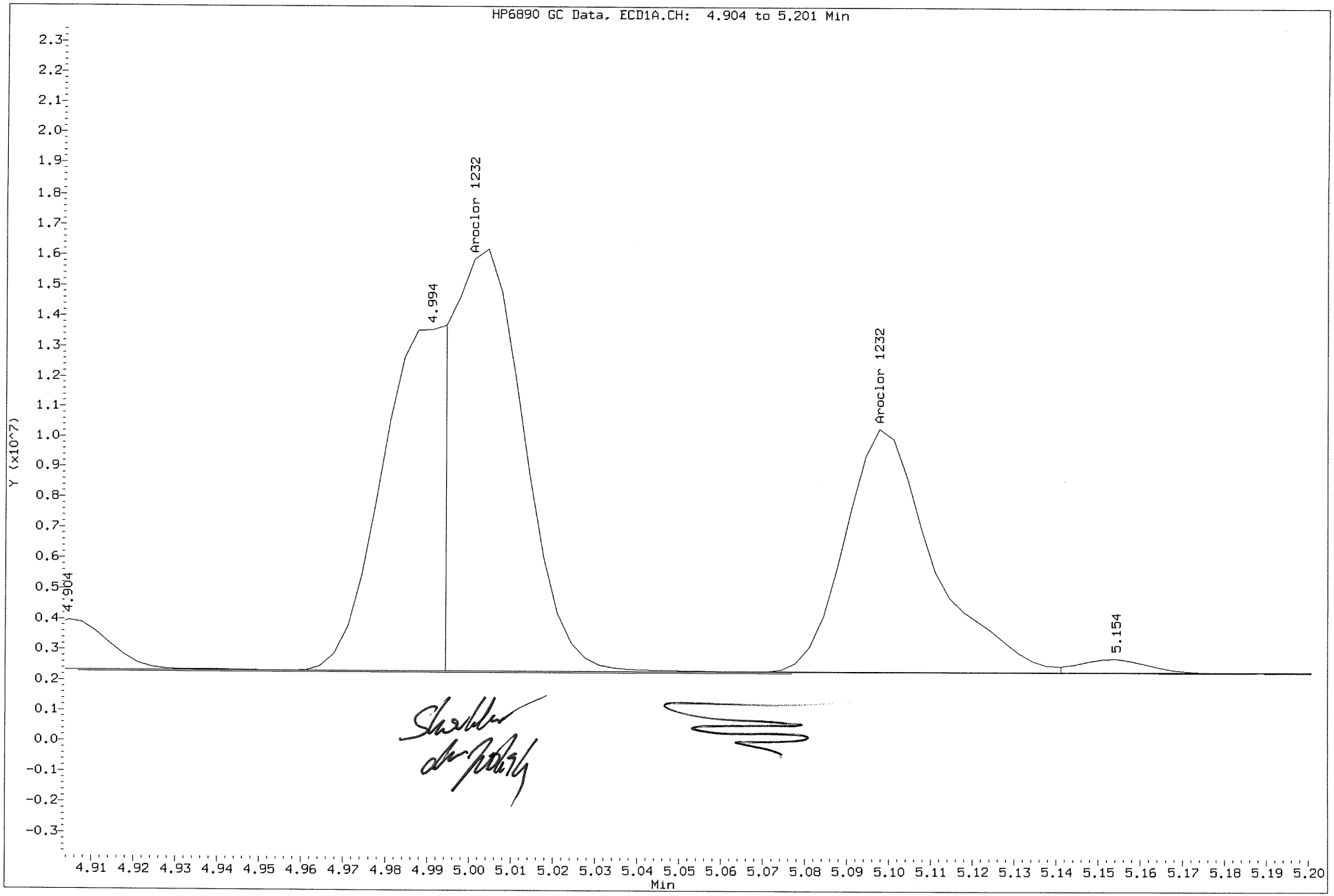
Column diameter: 0.32



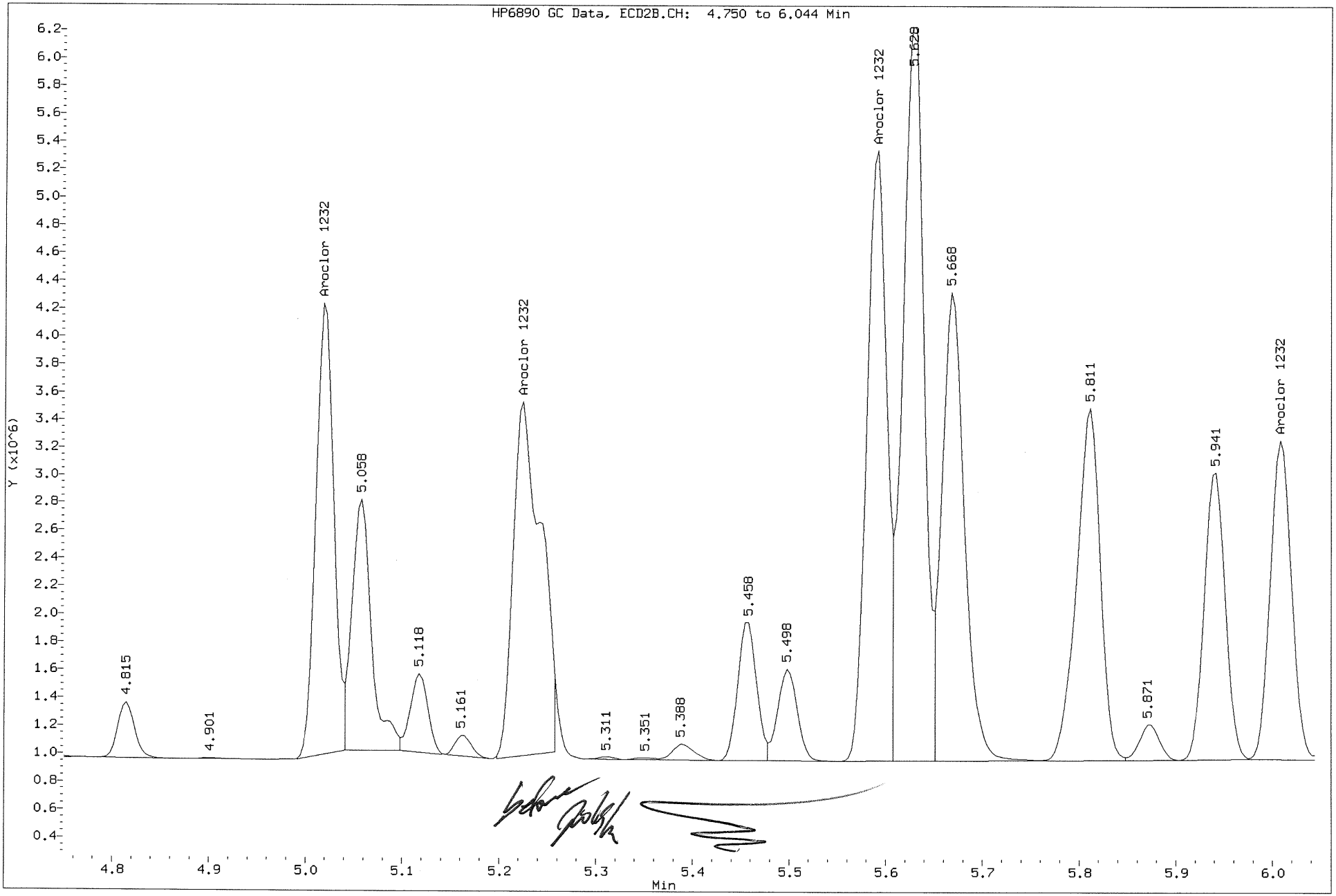
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



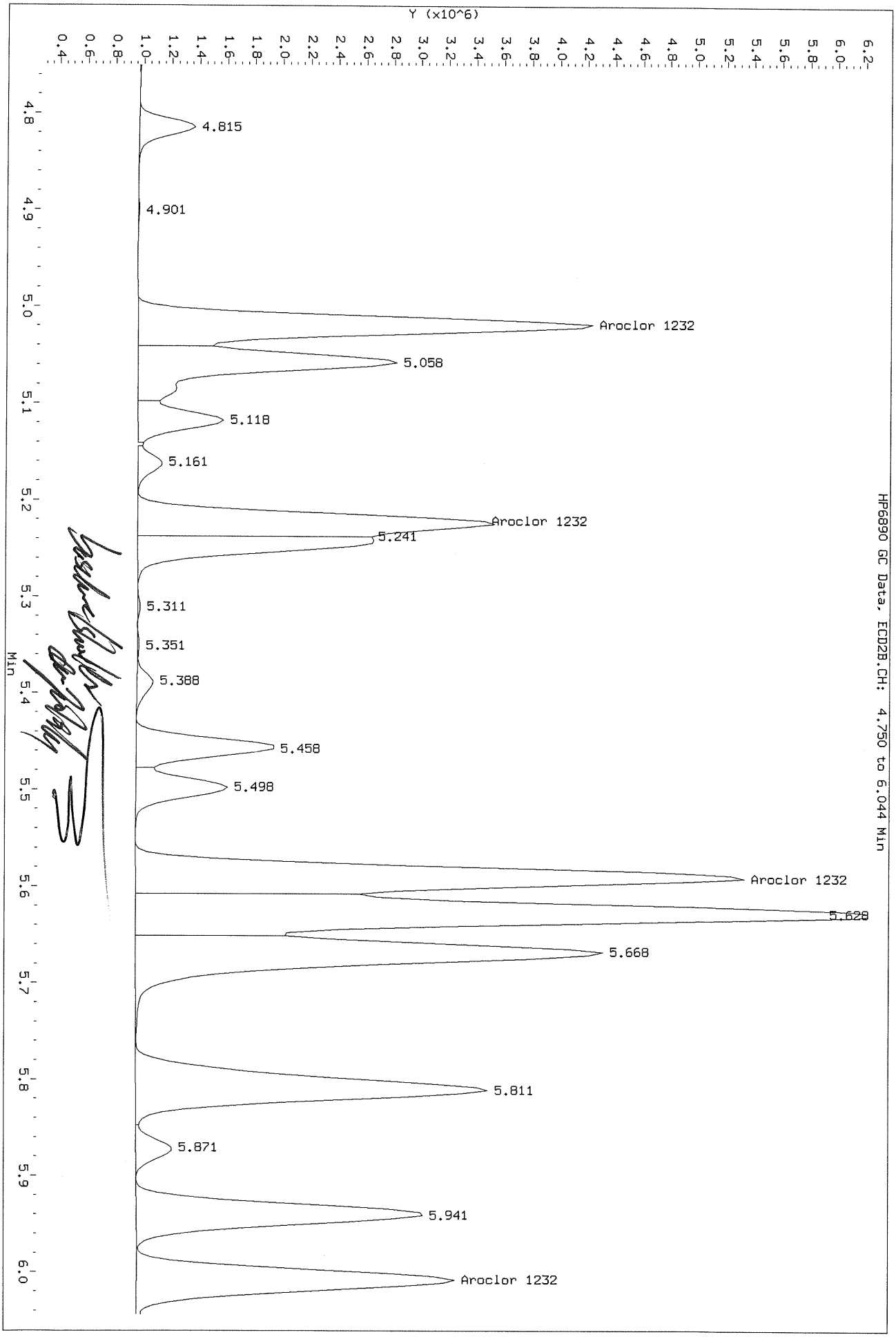
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.750 to 6.044 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

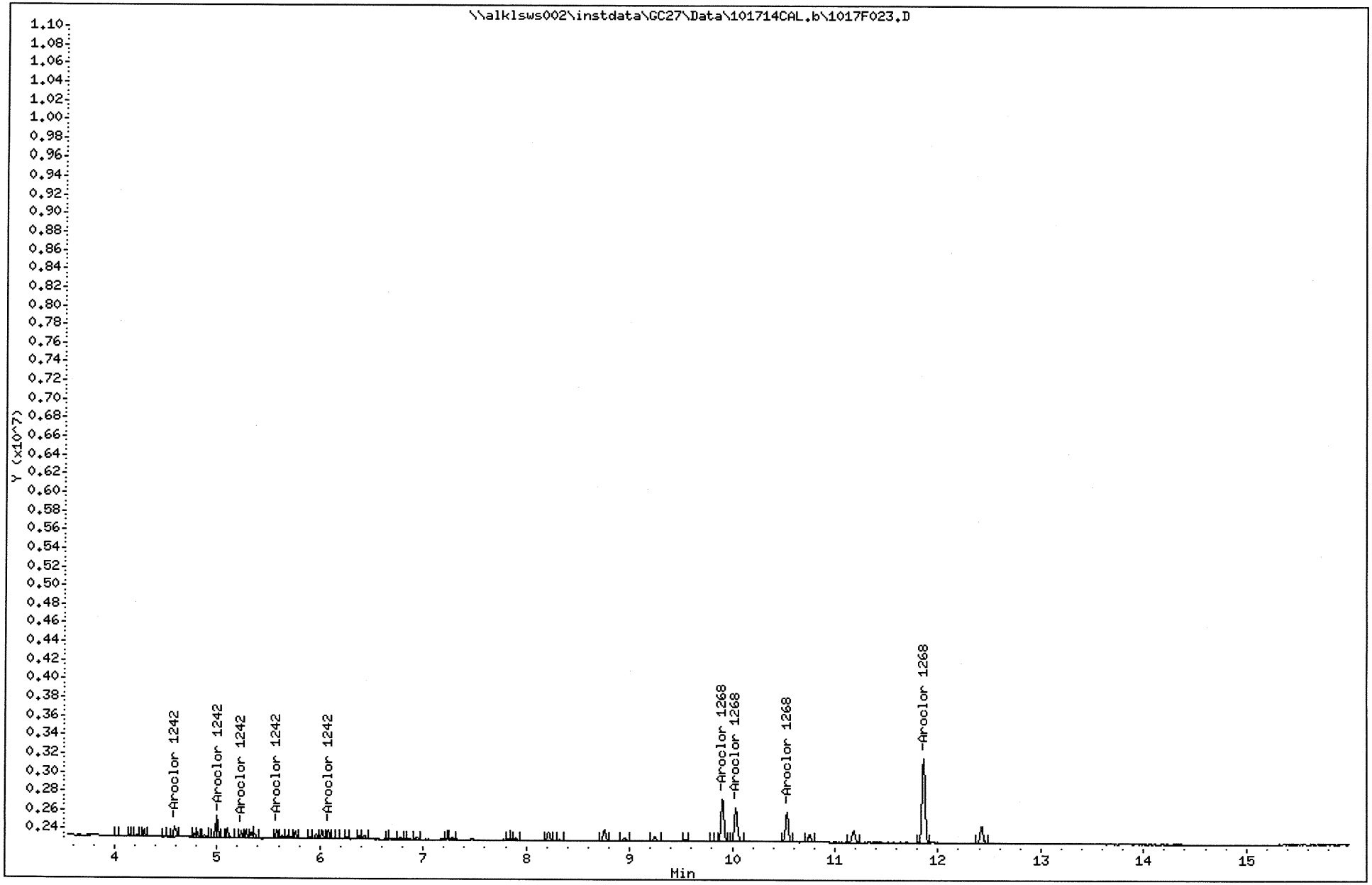
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

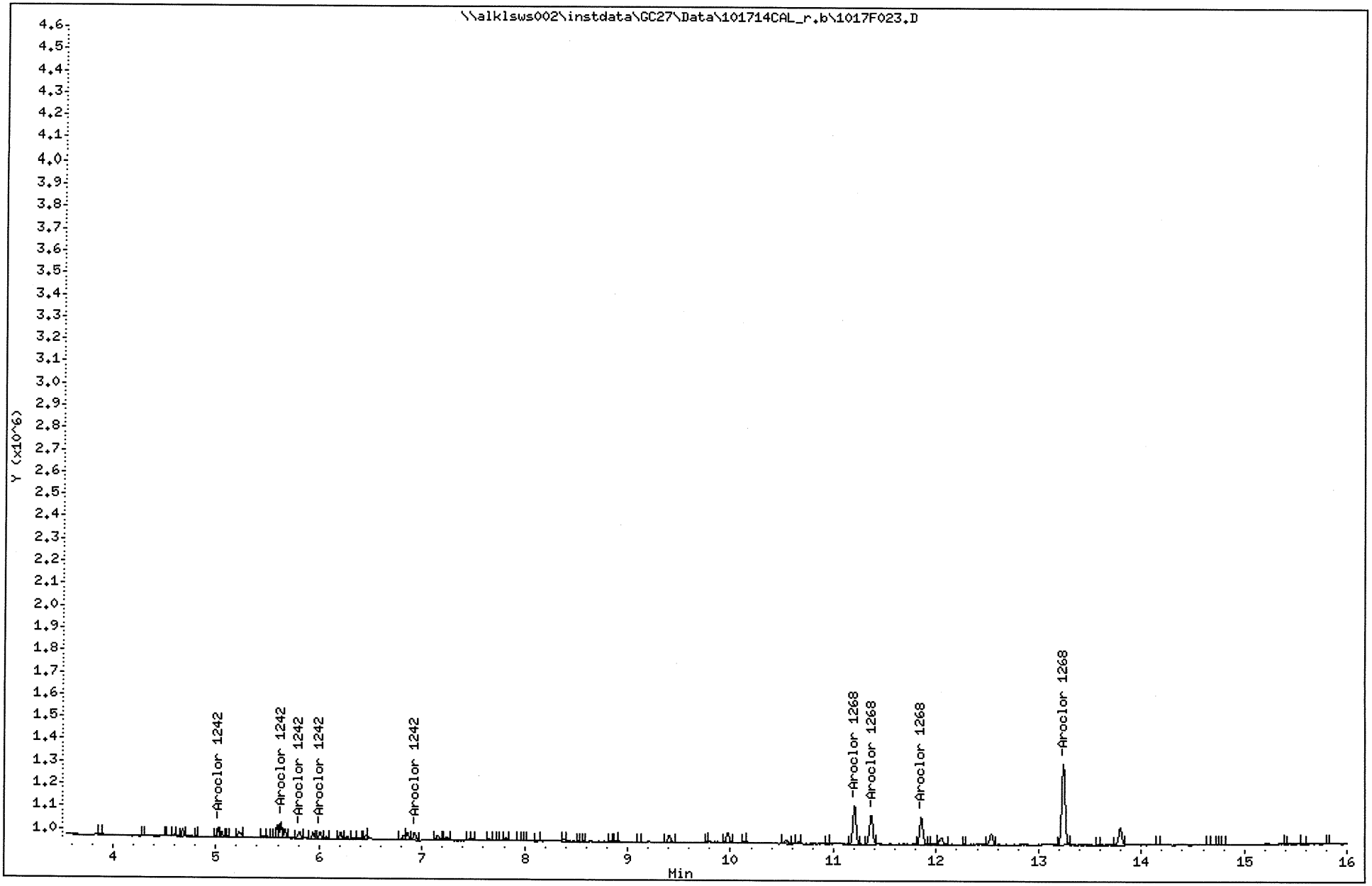


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
			Average of Peak Amounts =		56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
			Average of Peak Amounts =		59.0	52.4		

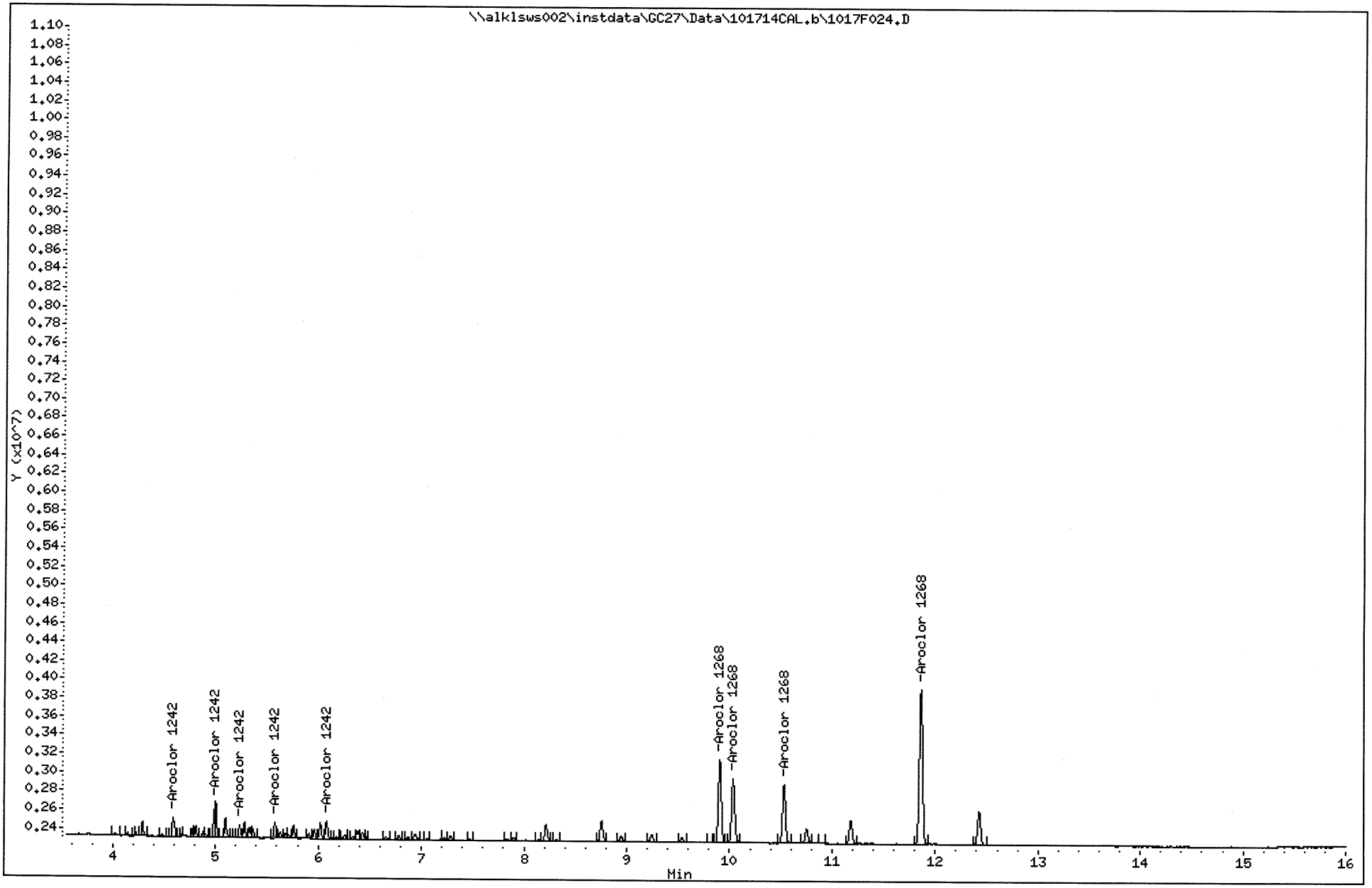
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



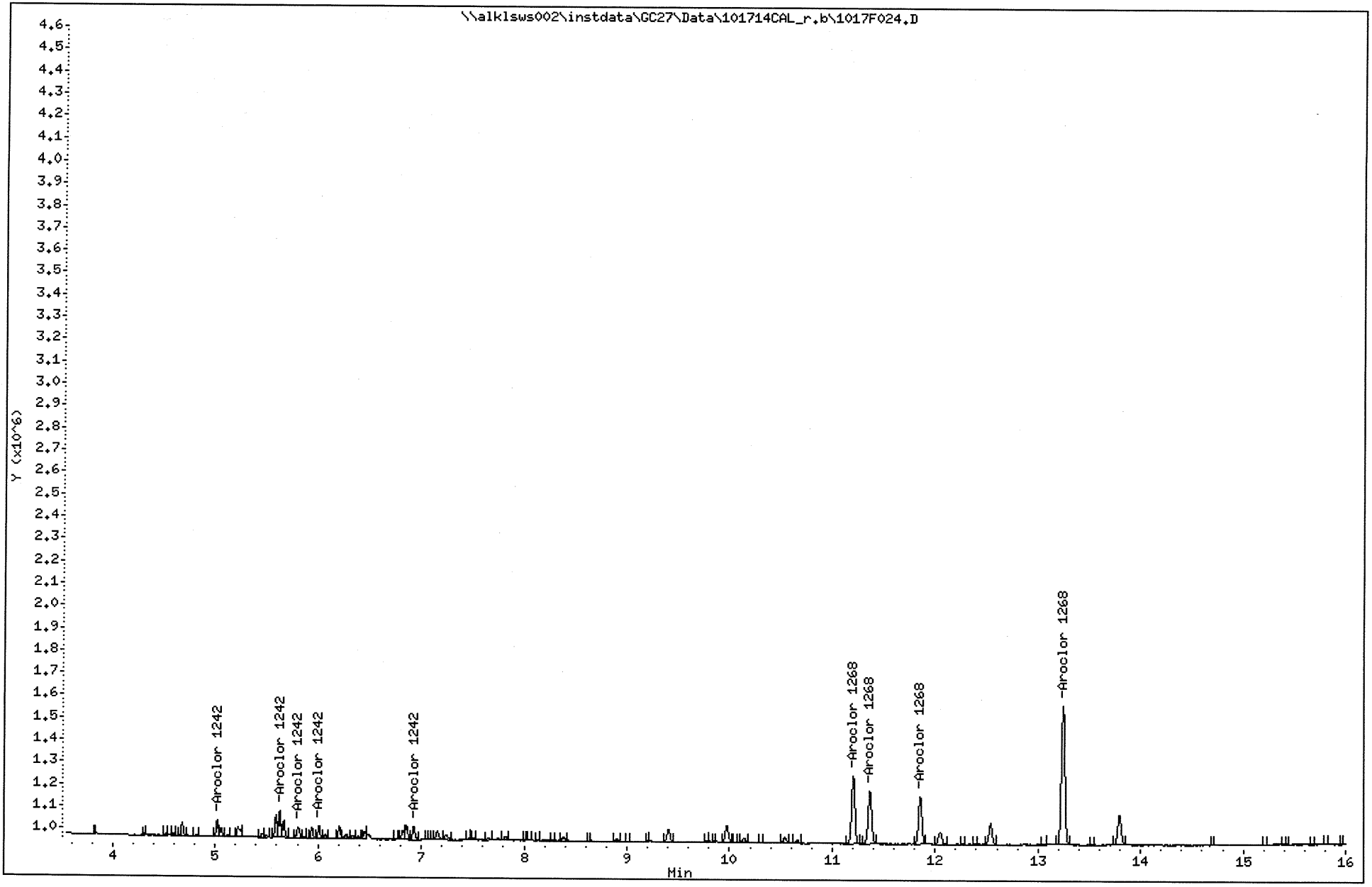
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

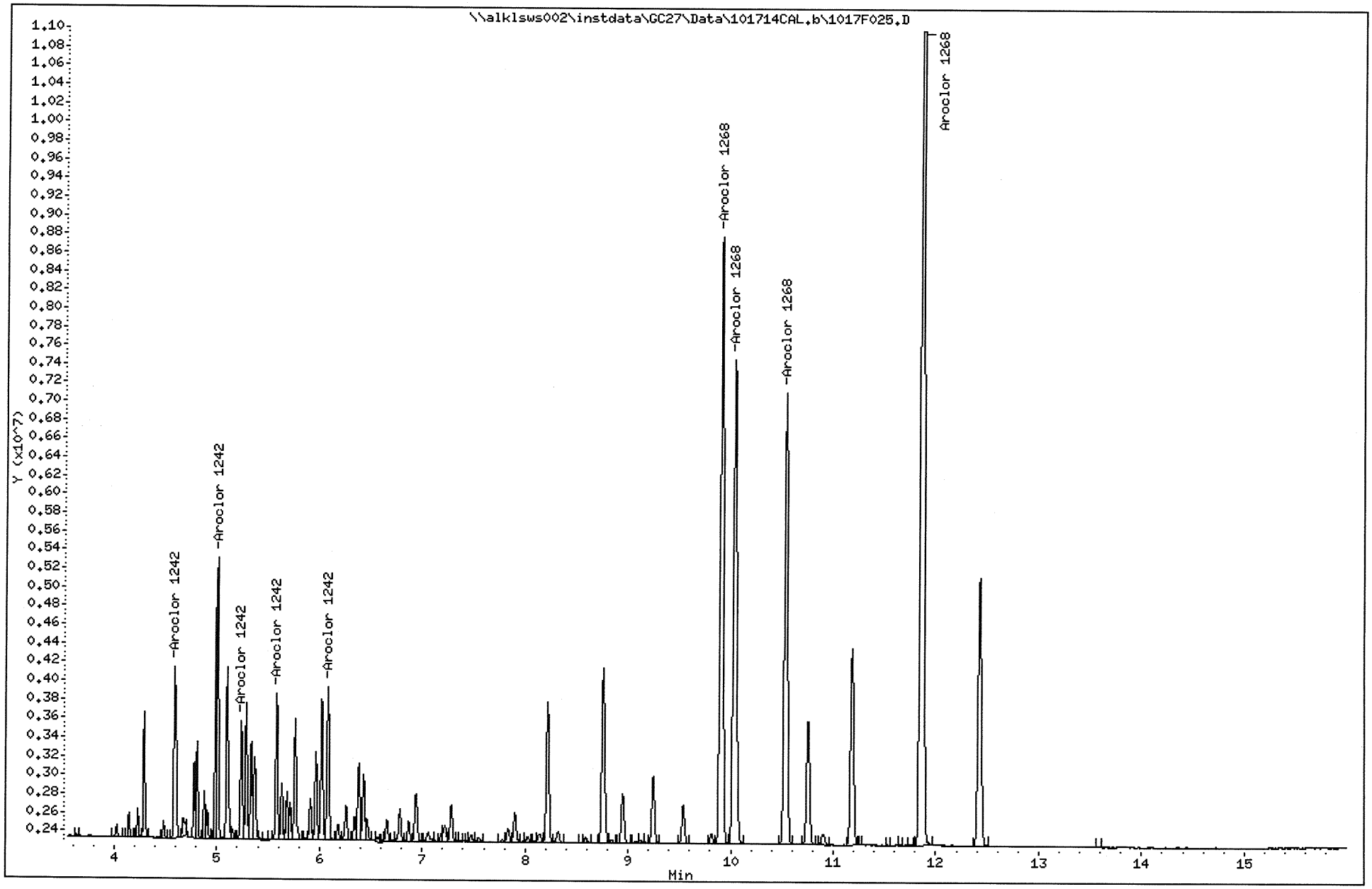
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



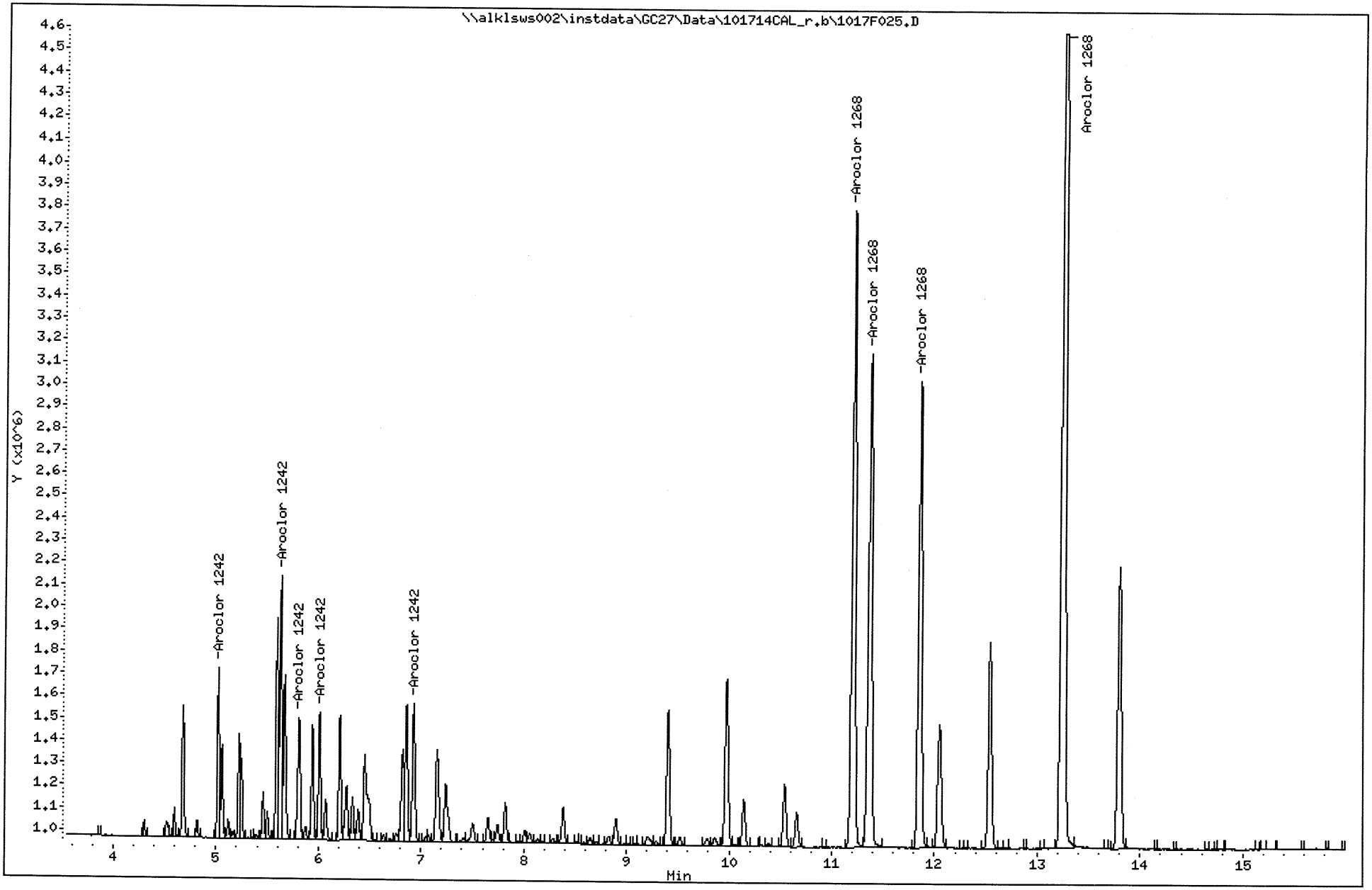
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

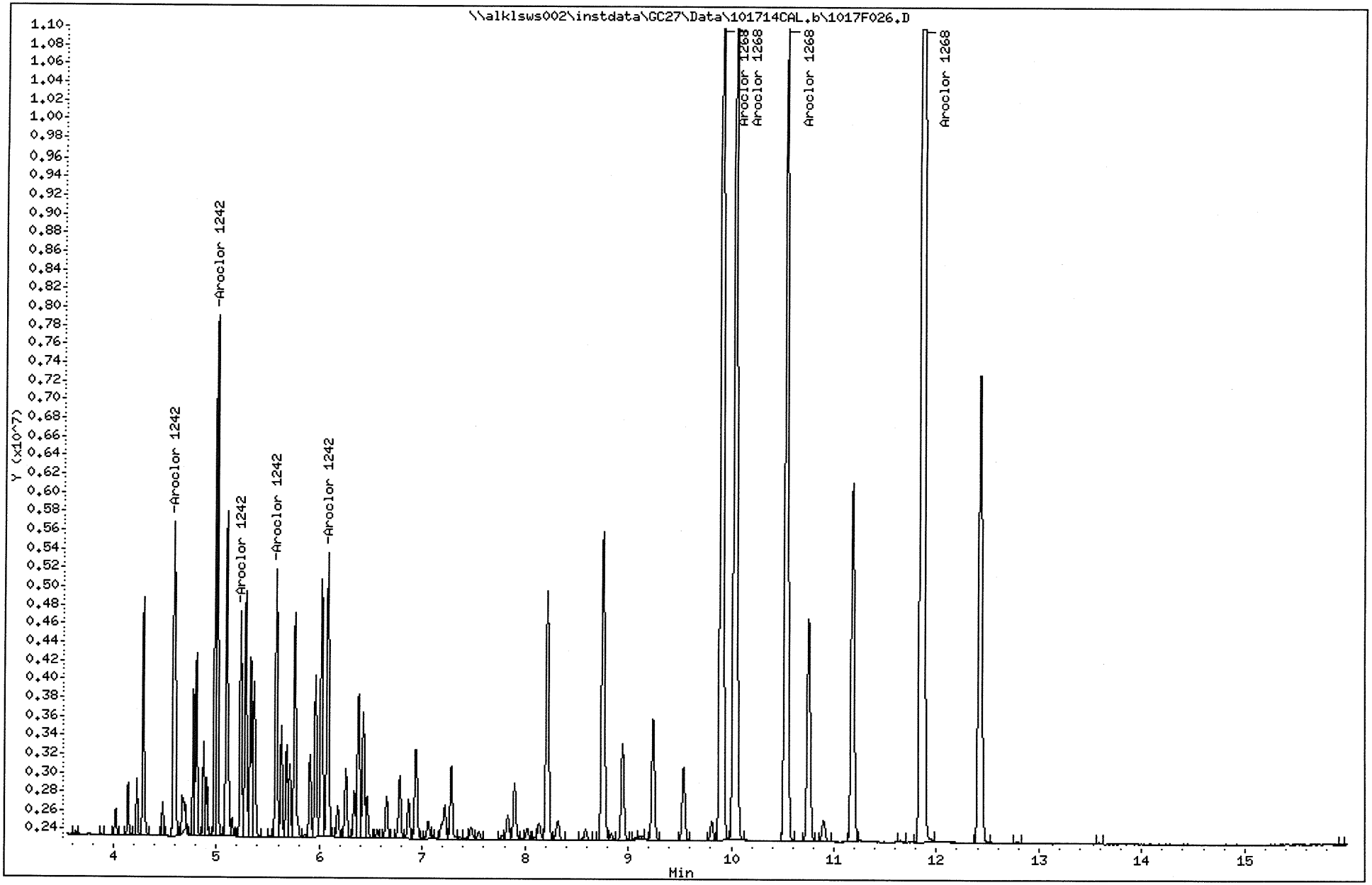
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



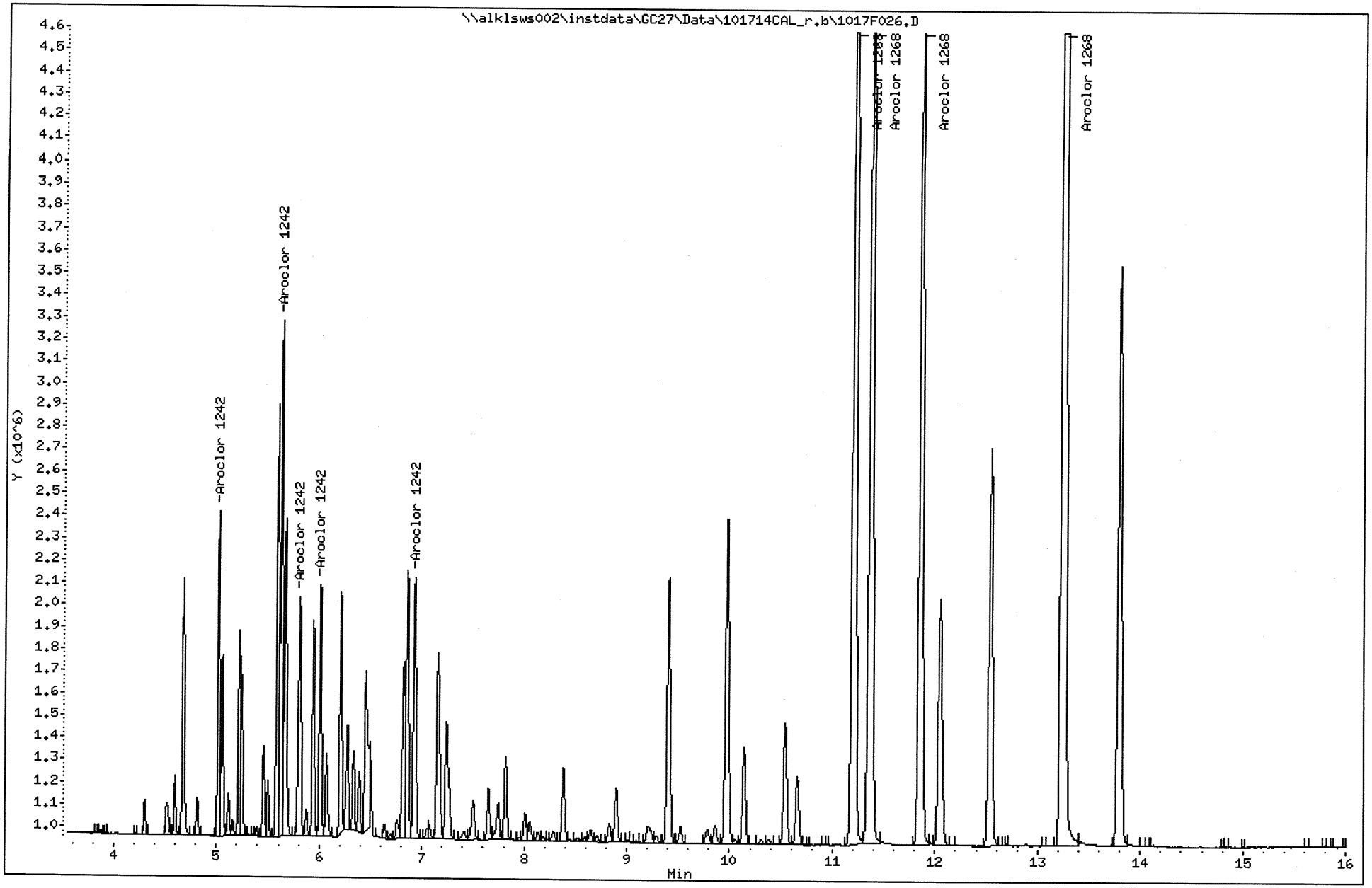
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

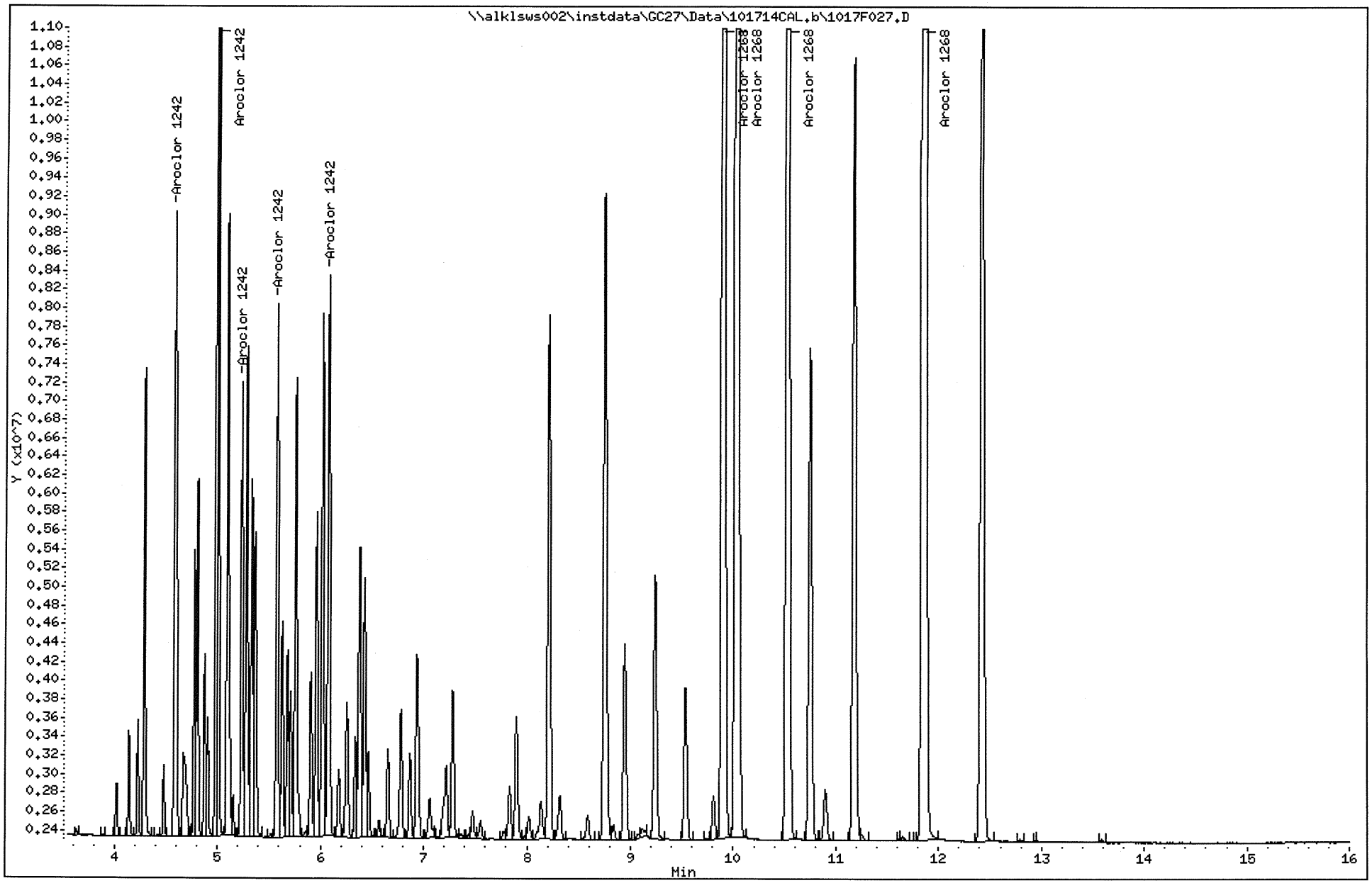
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



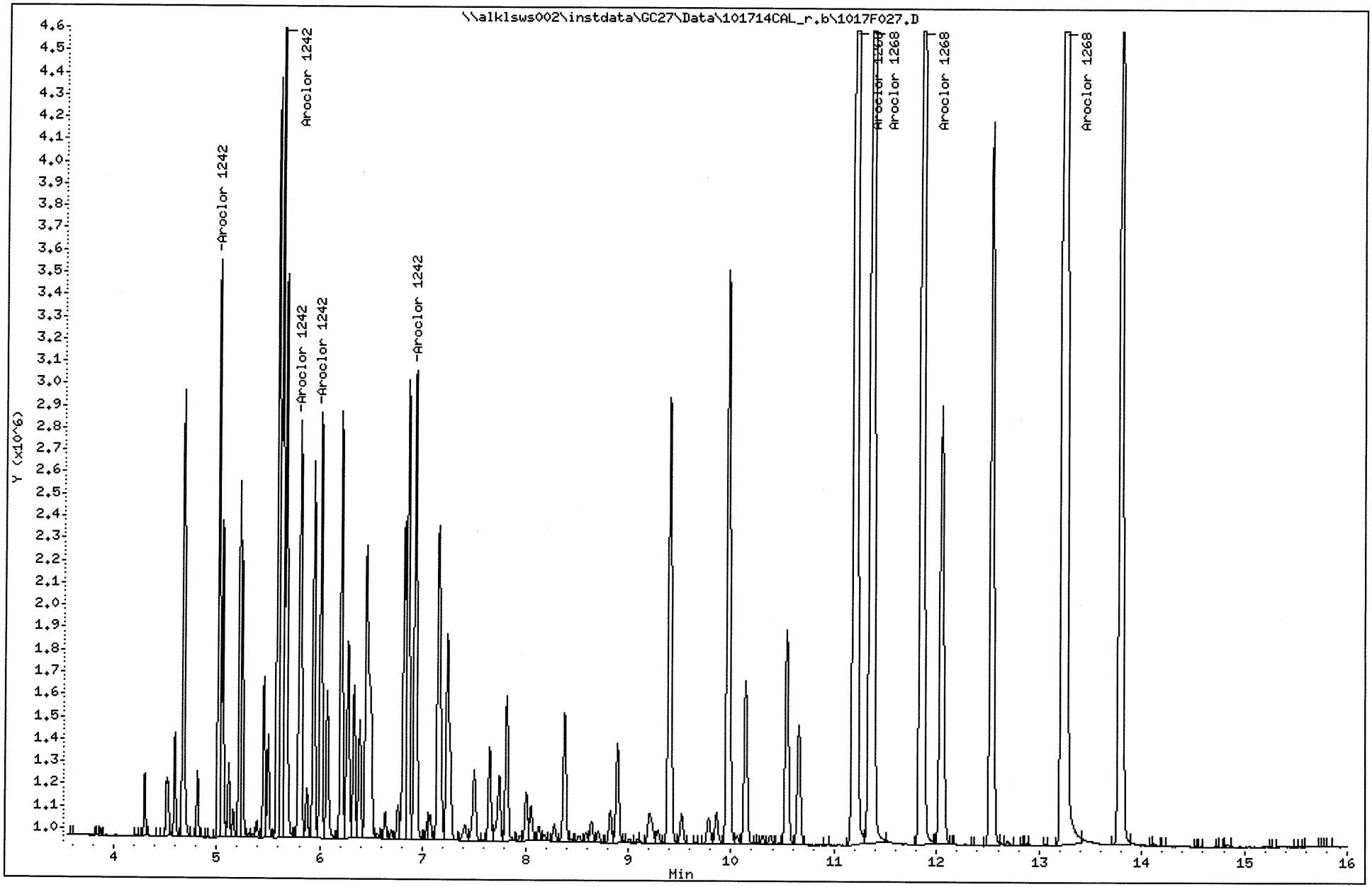
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

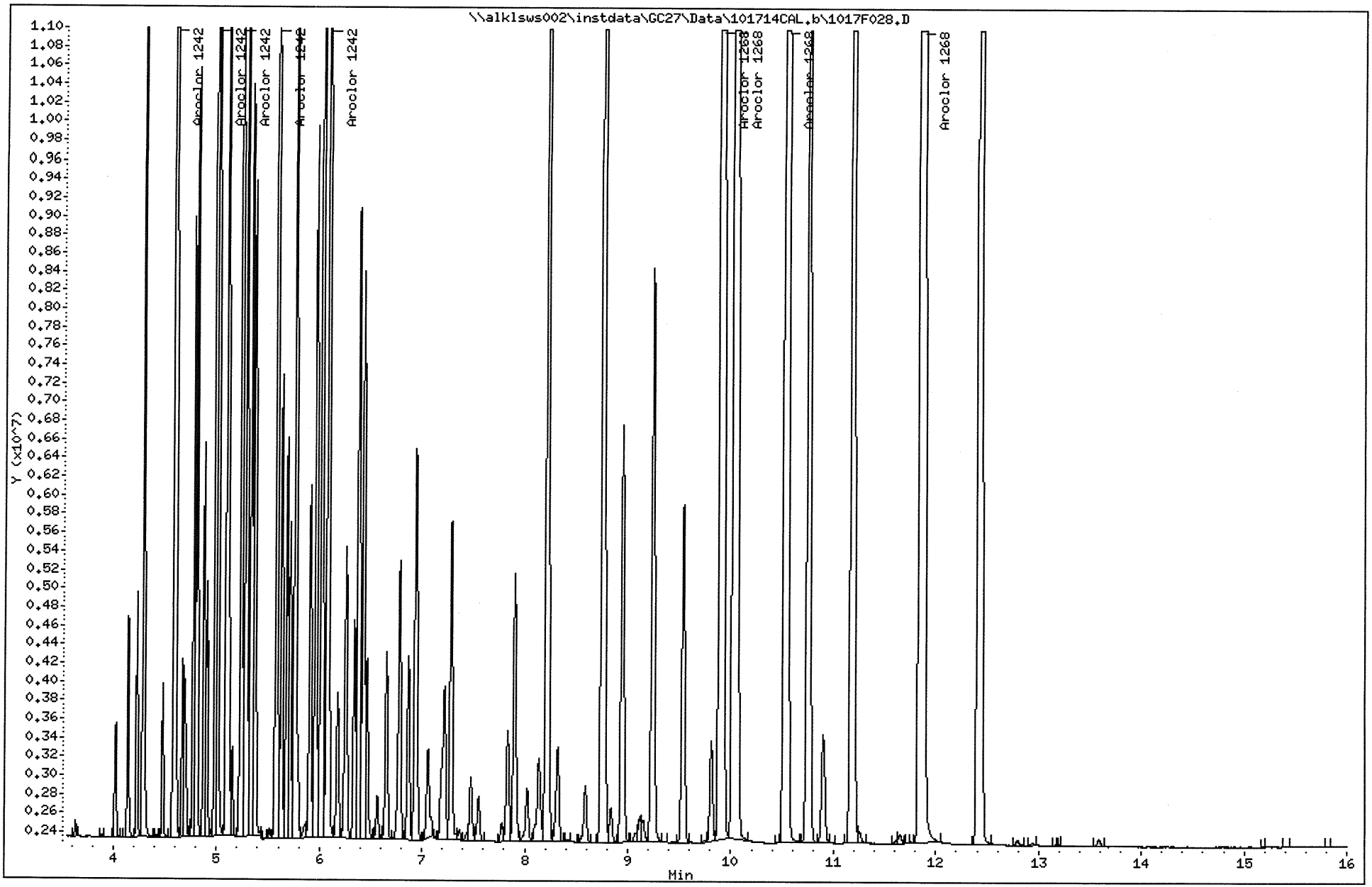
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

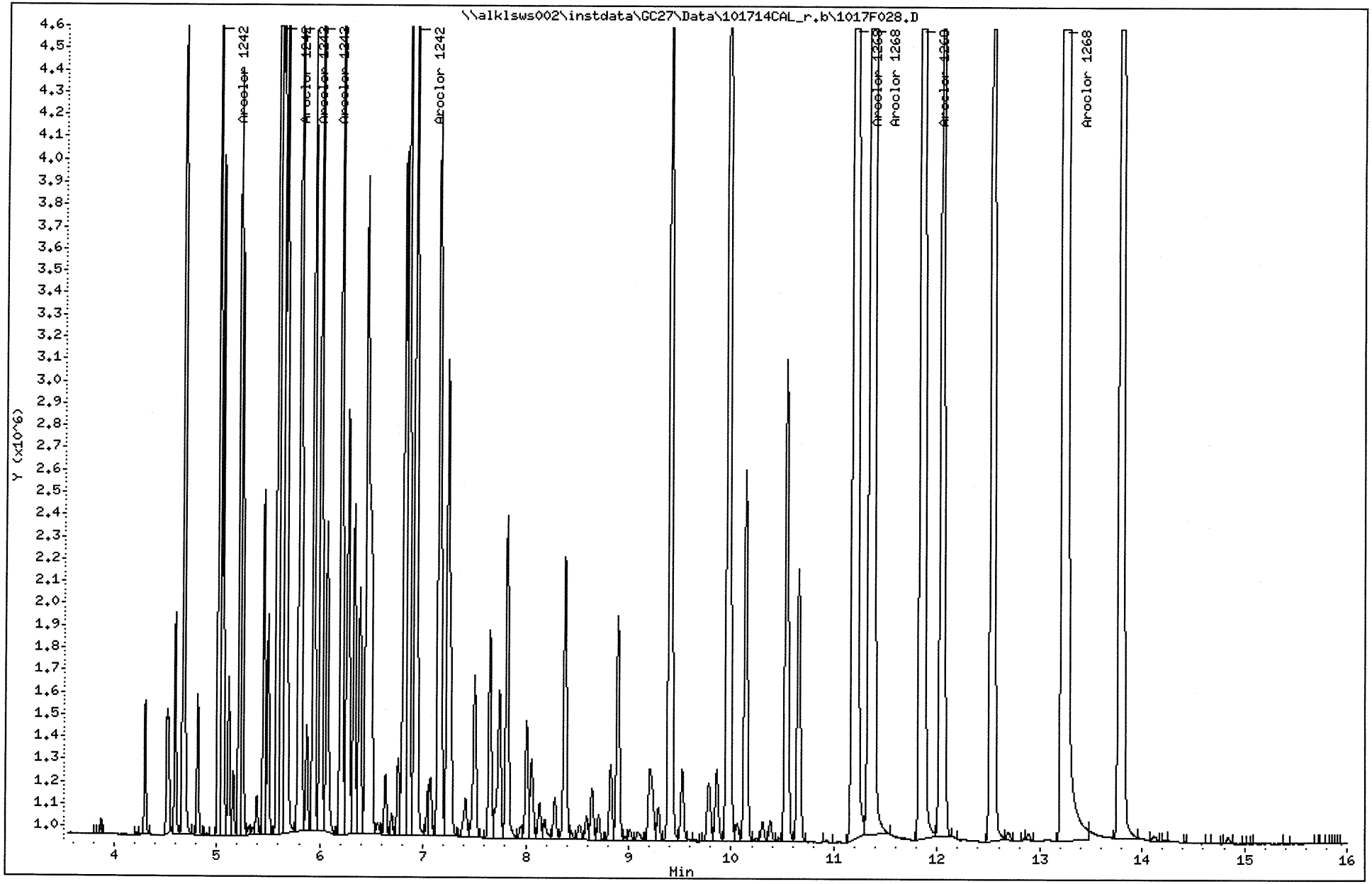


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

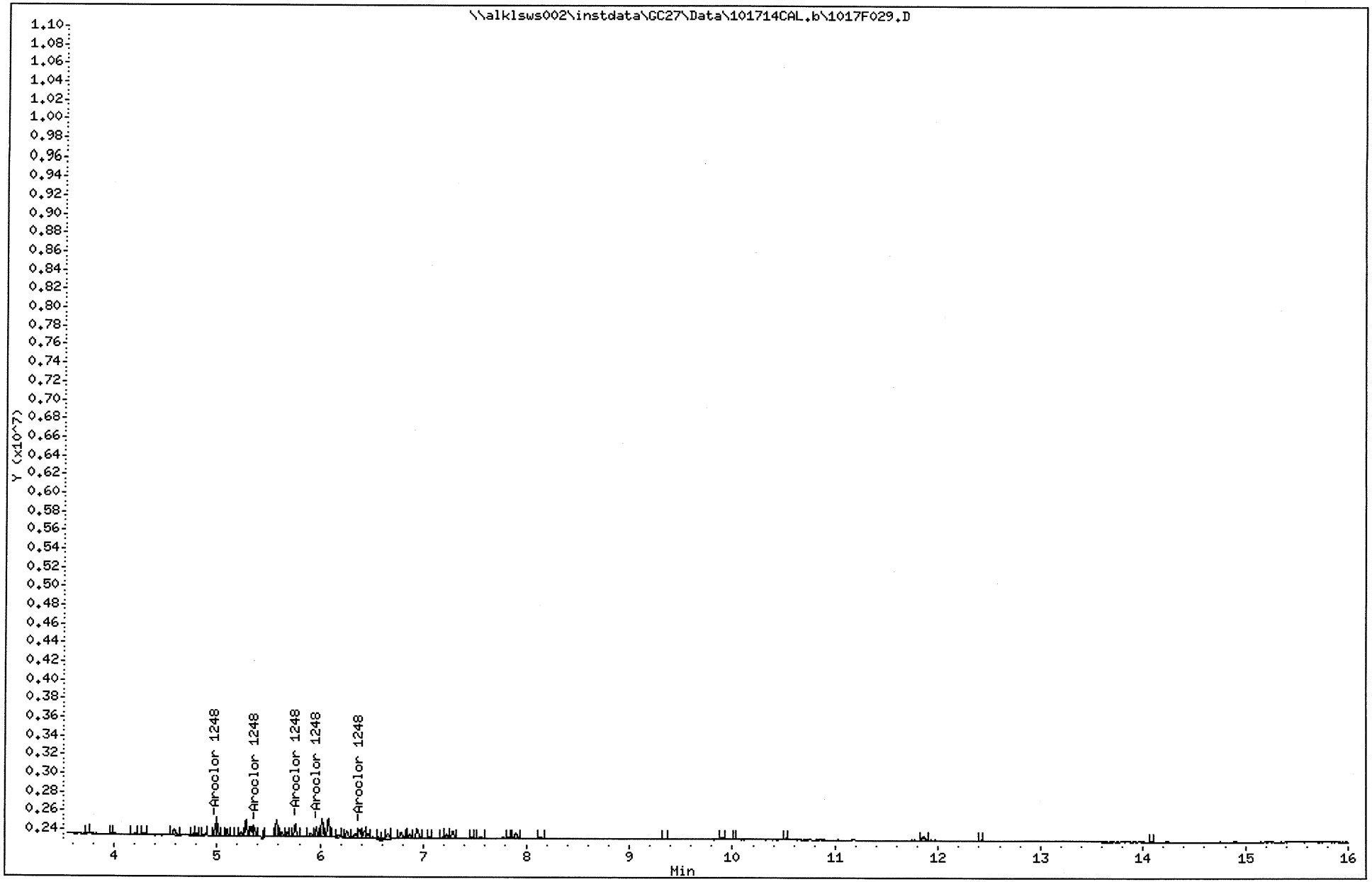
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

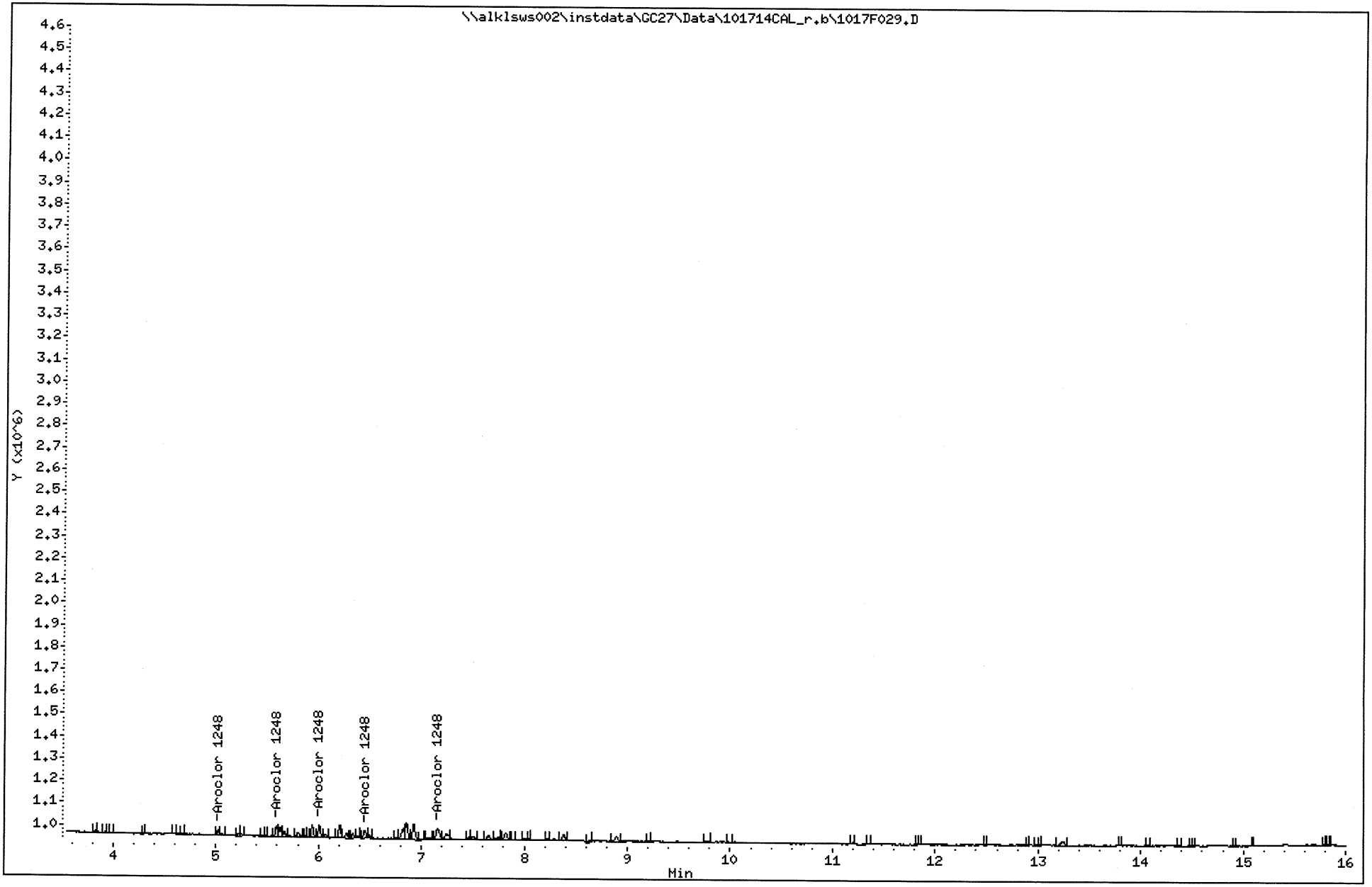


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Column phase: DB-XLB

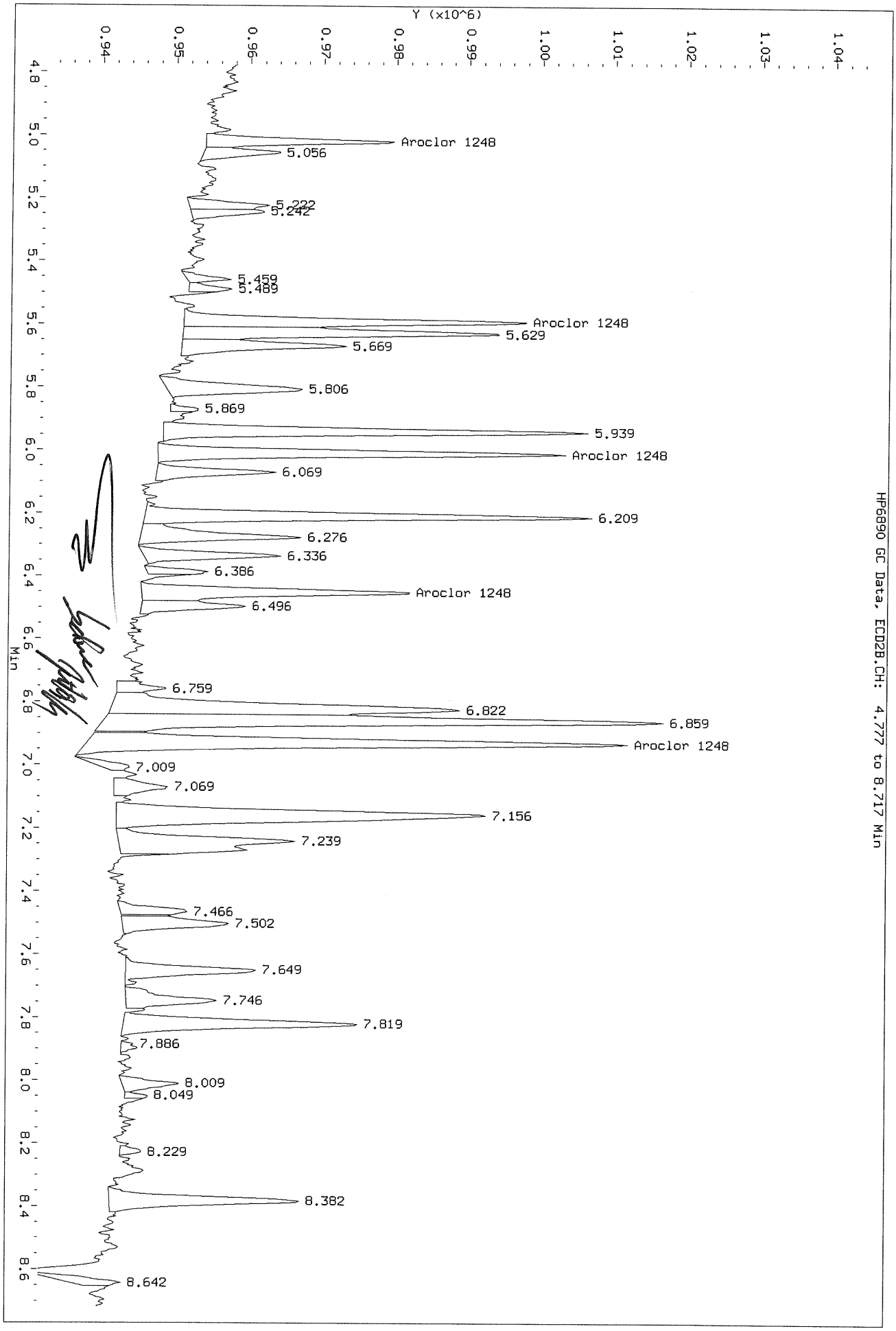
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



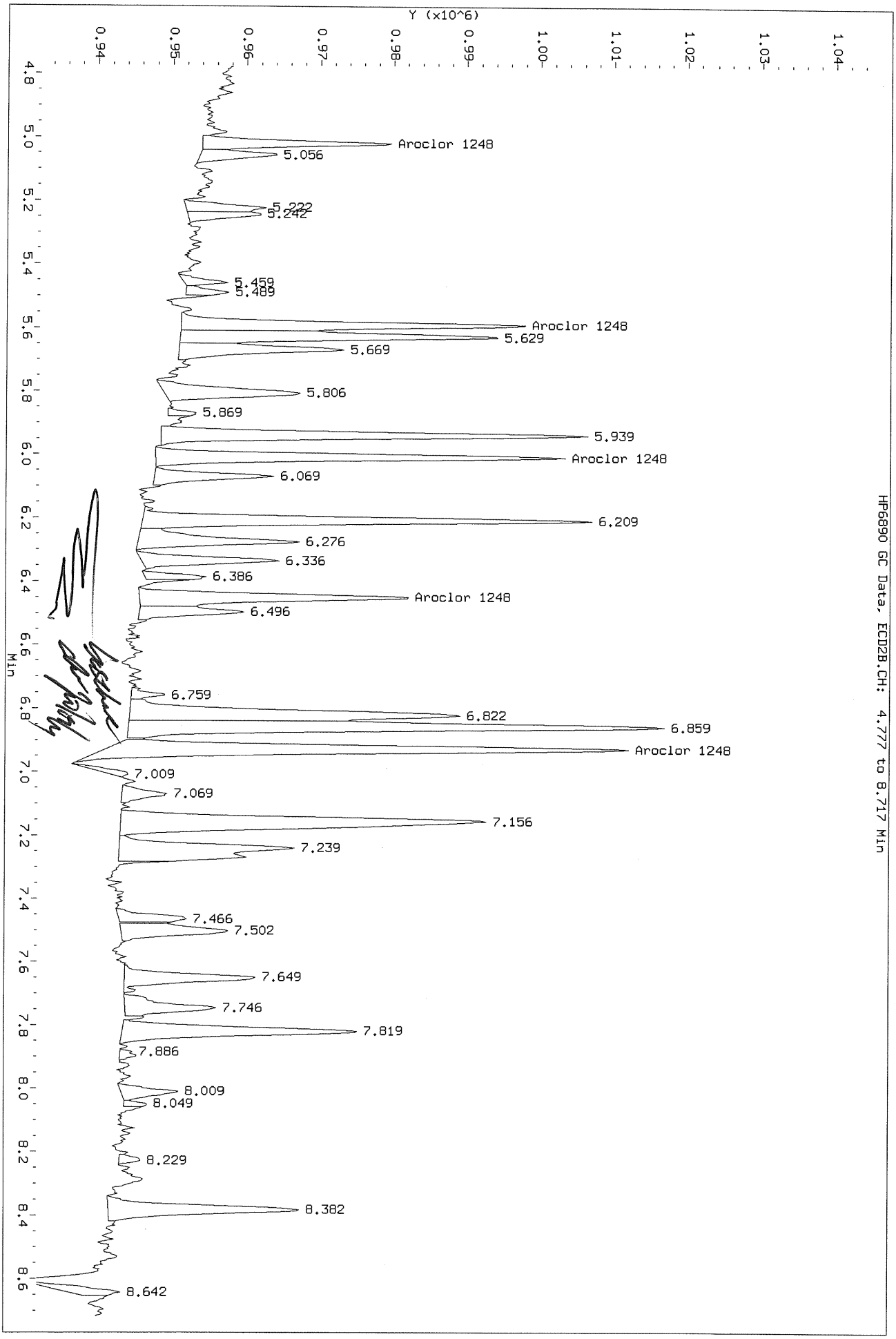
Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

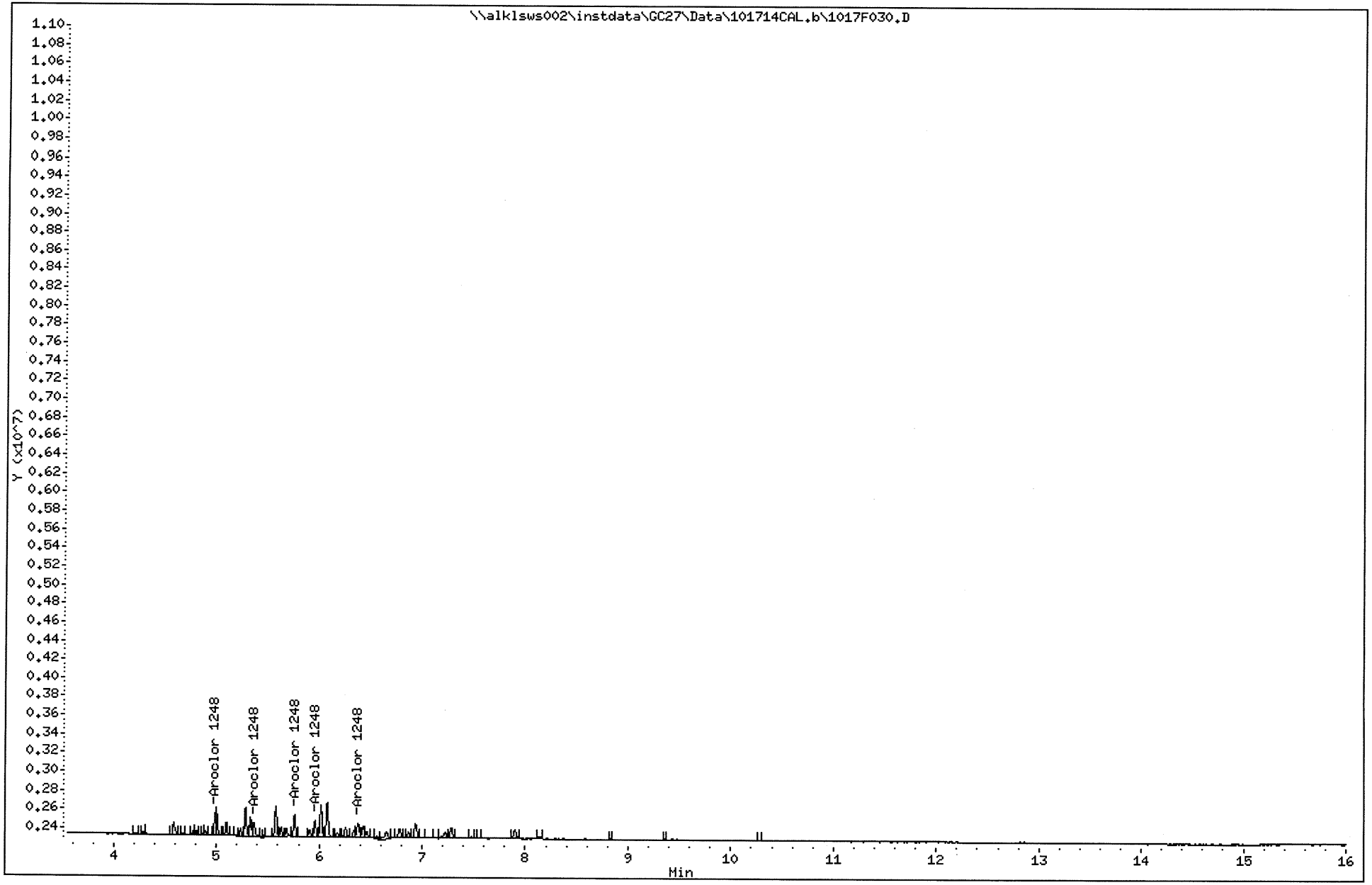
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



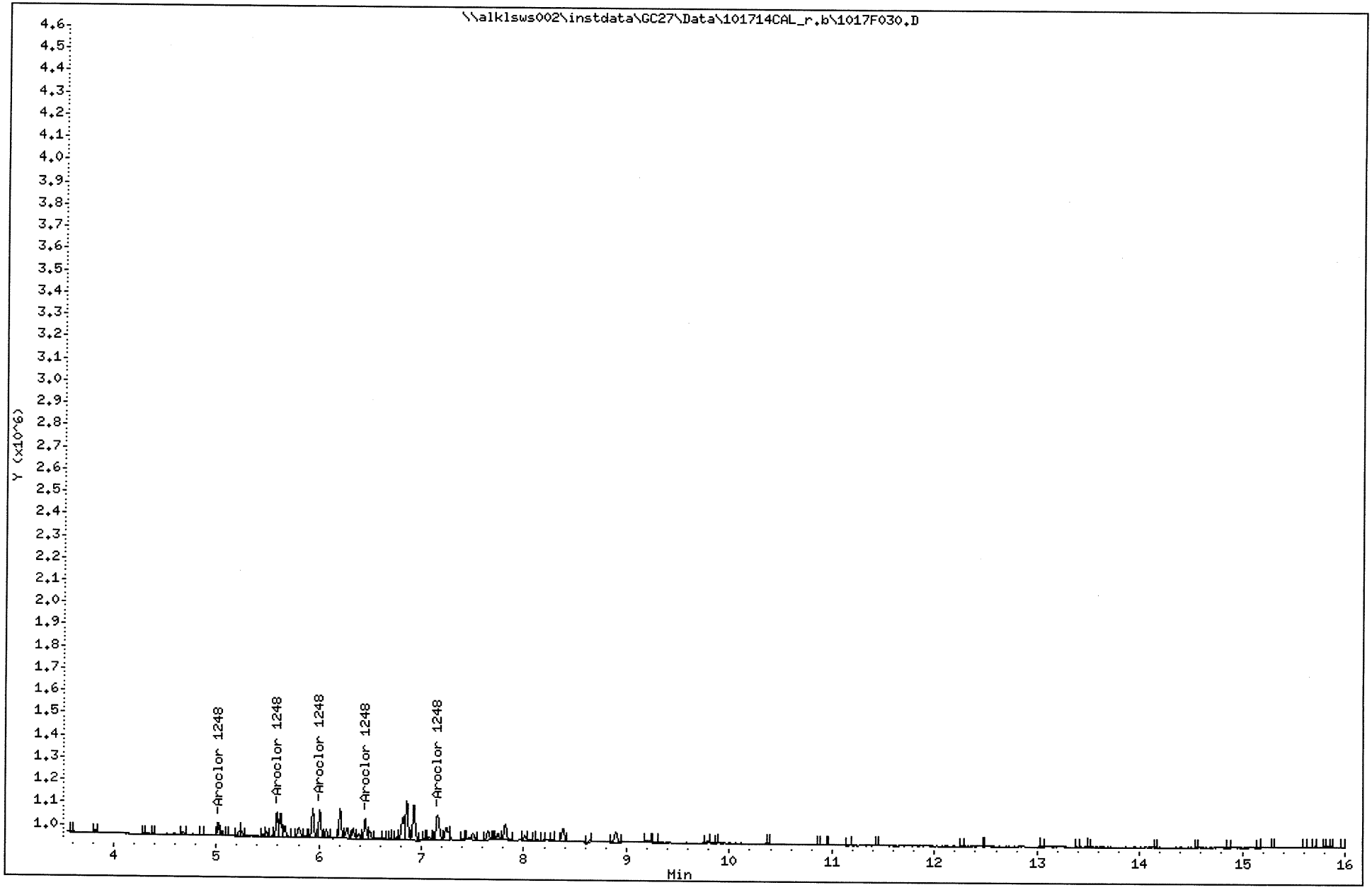
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

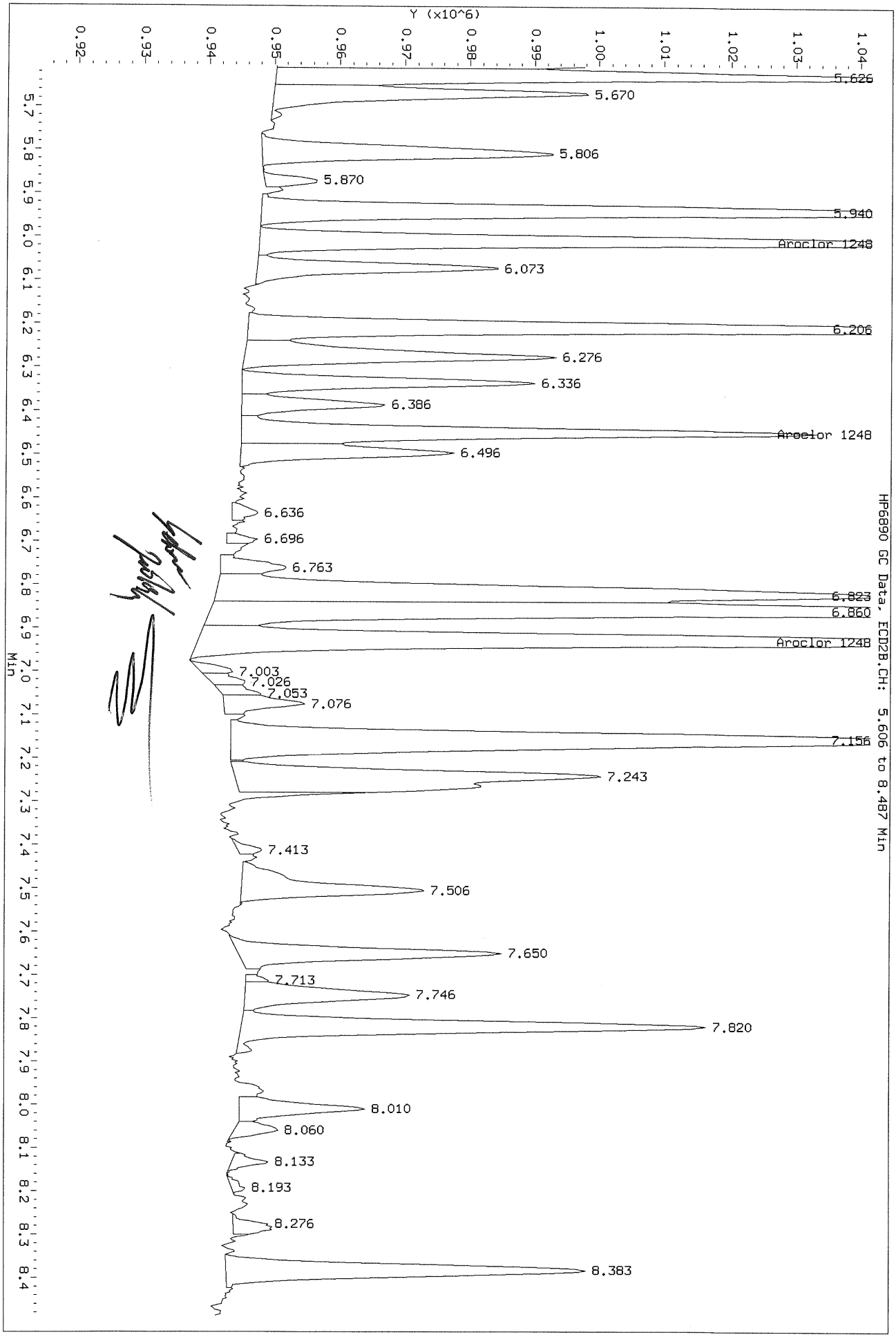
Instrument: GC27.i

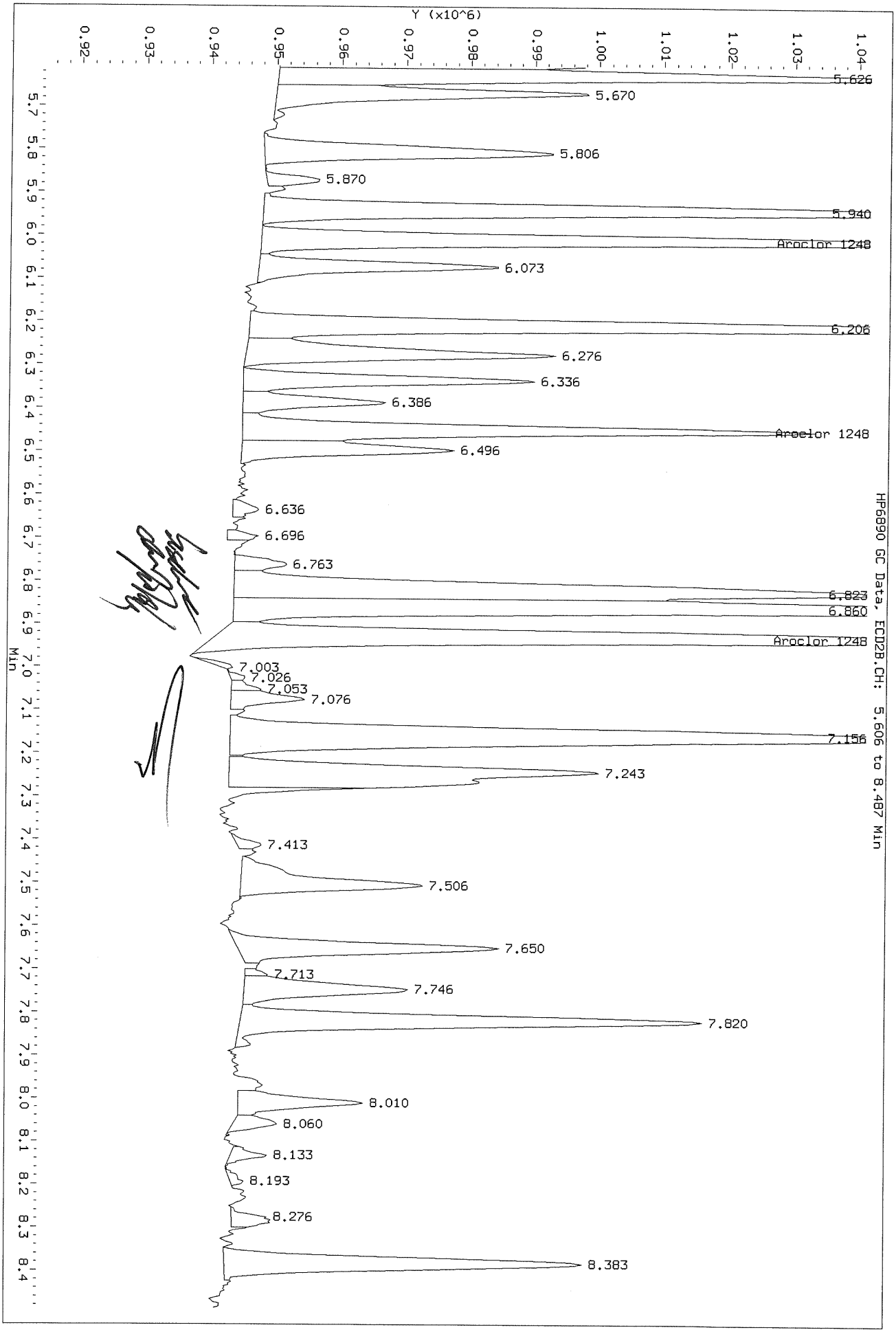
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

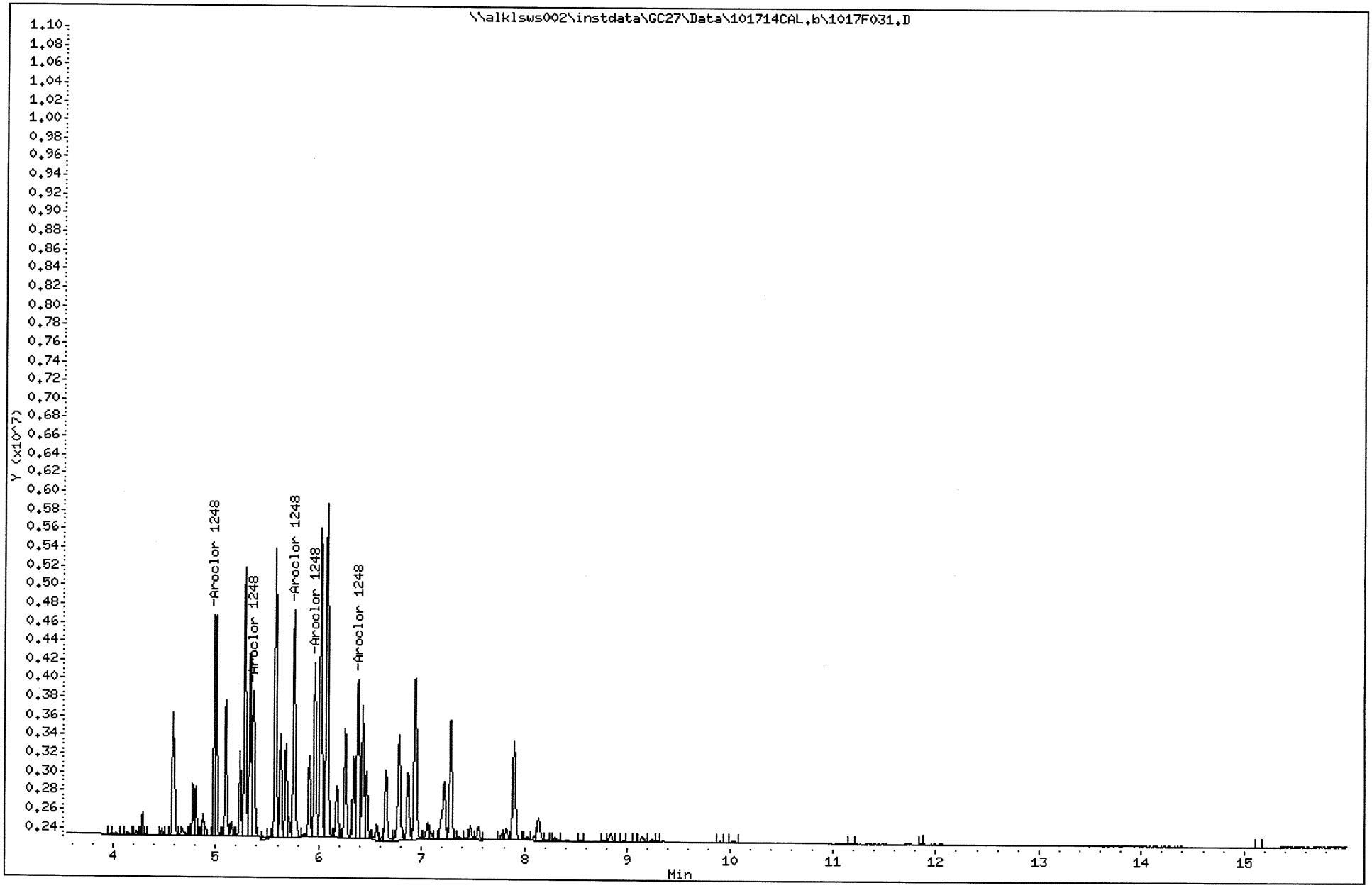
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



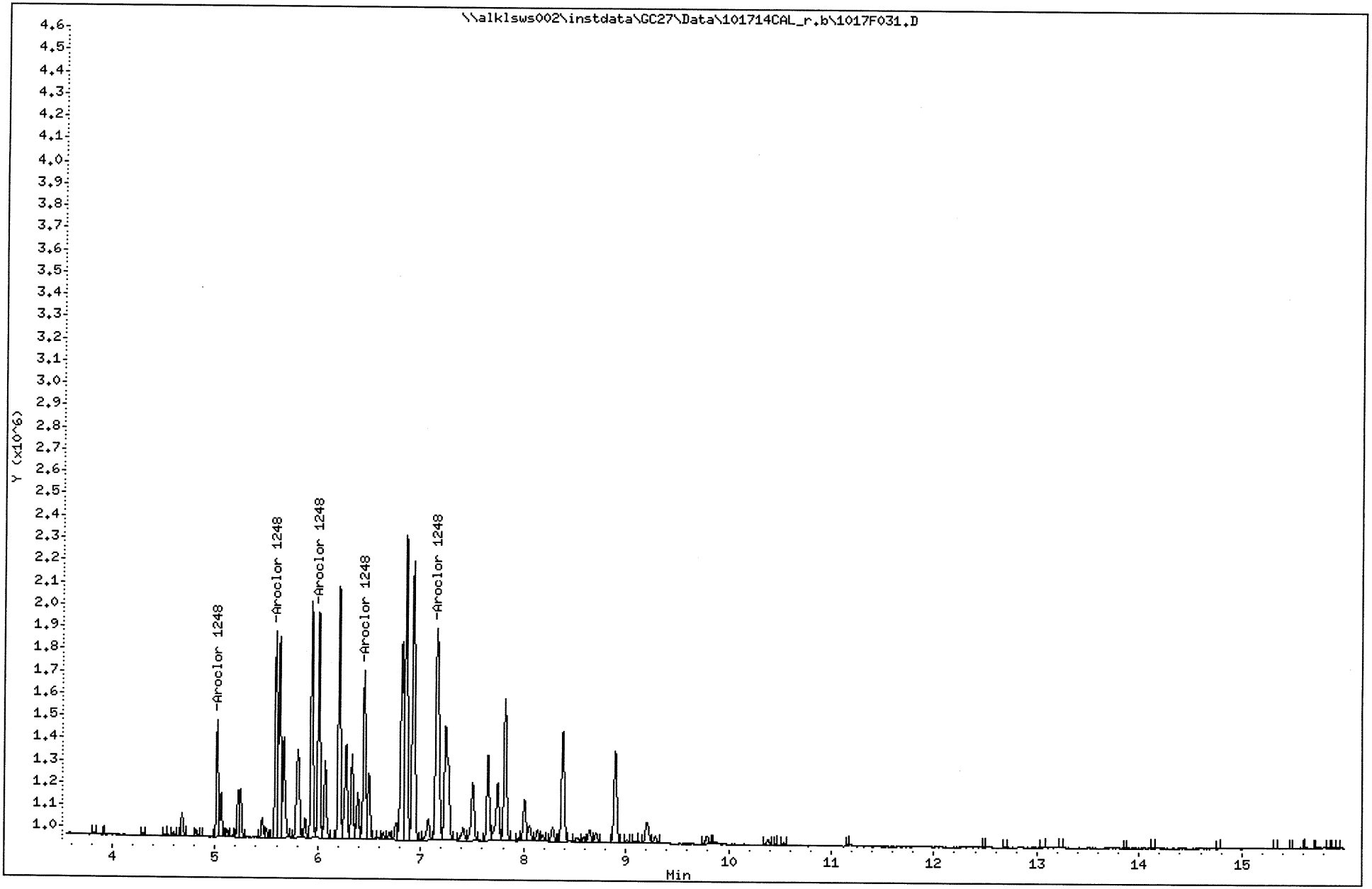
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

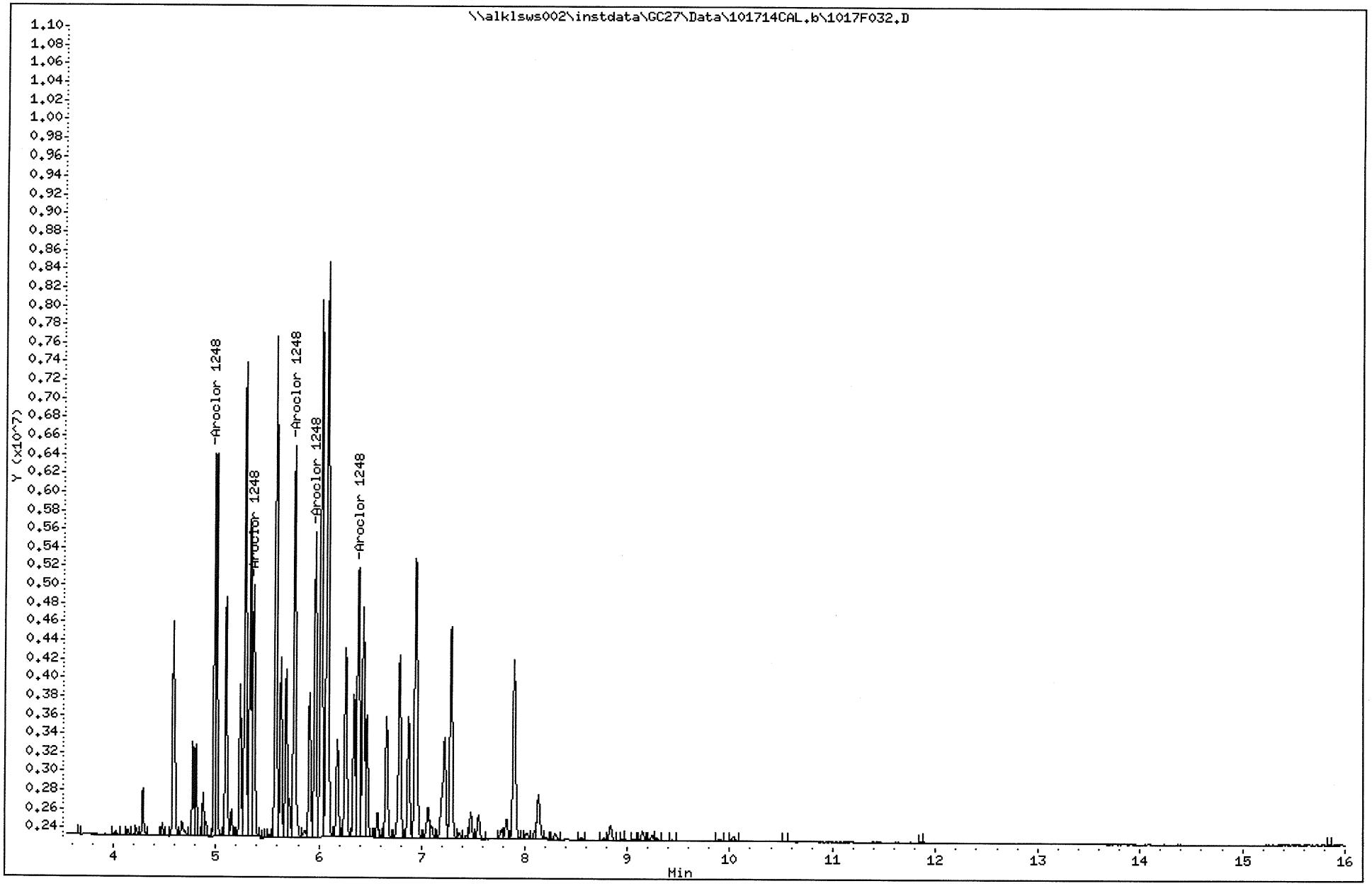
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



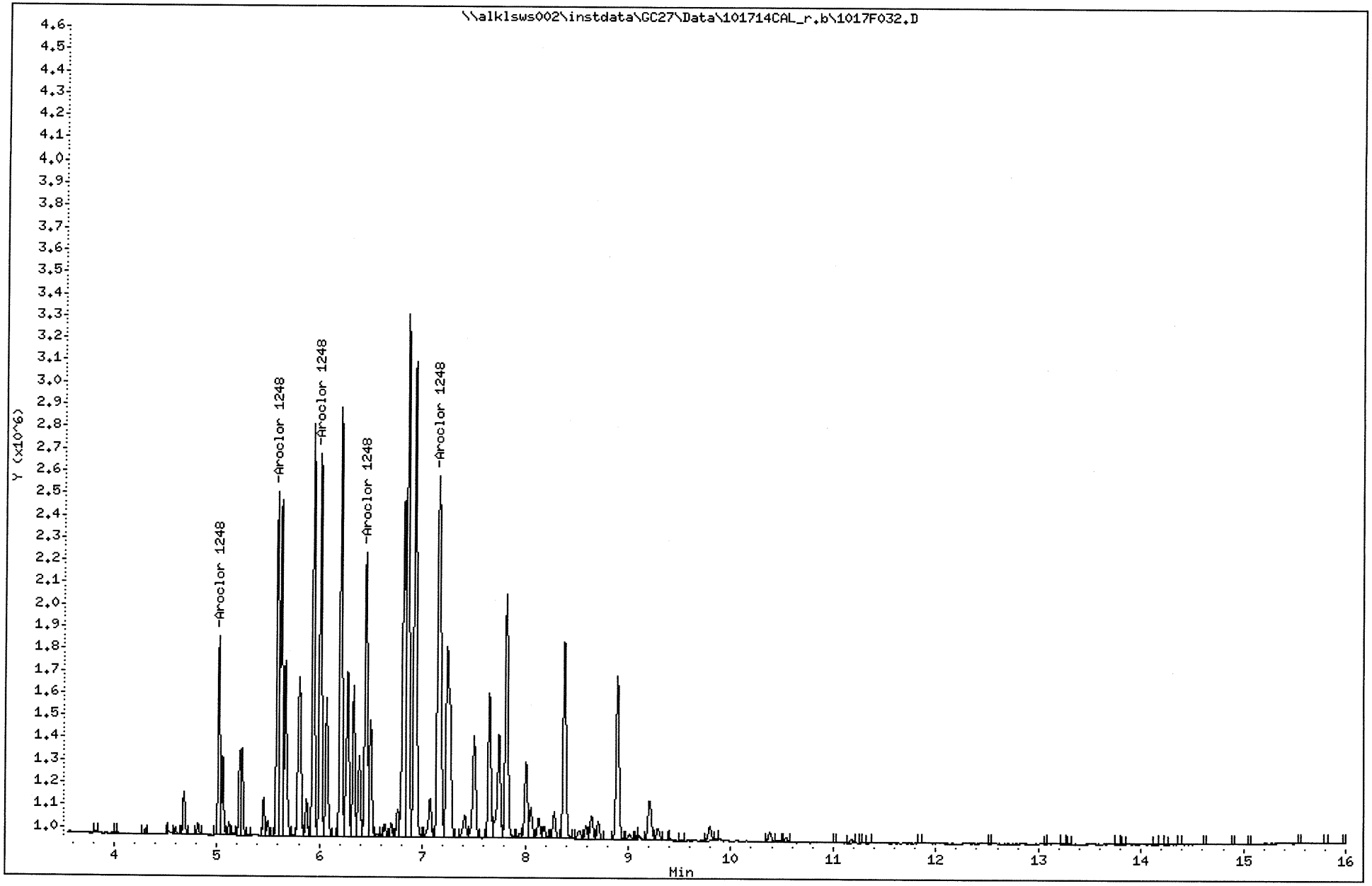
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

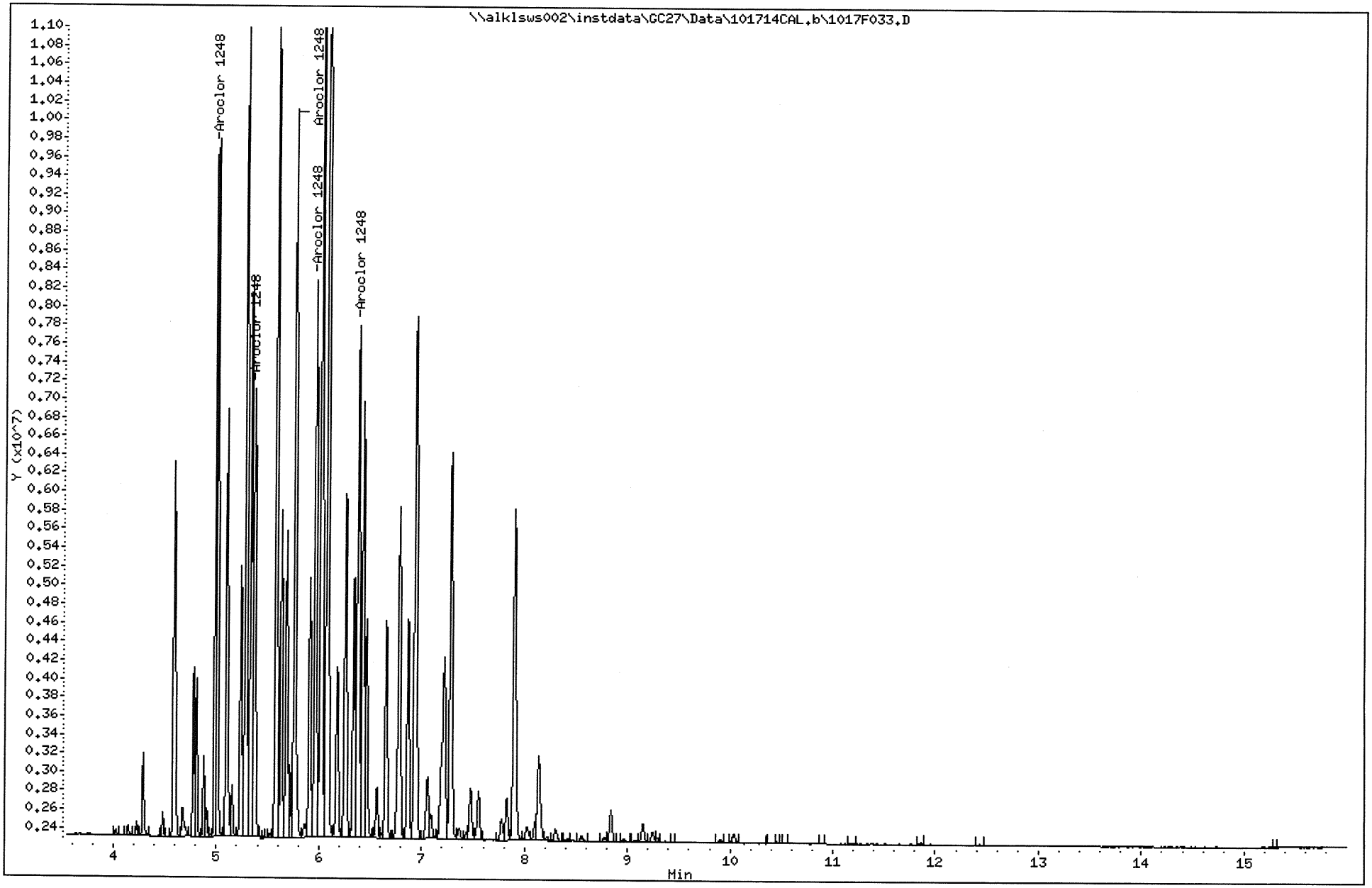
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

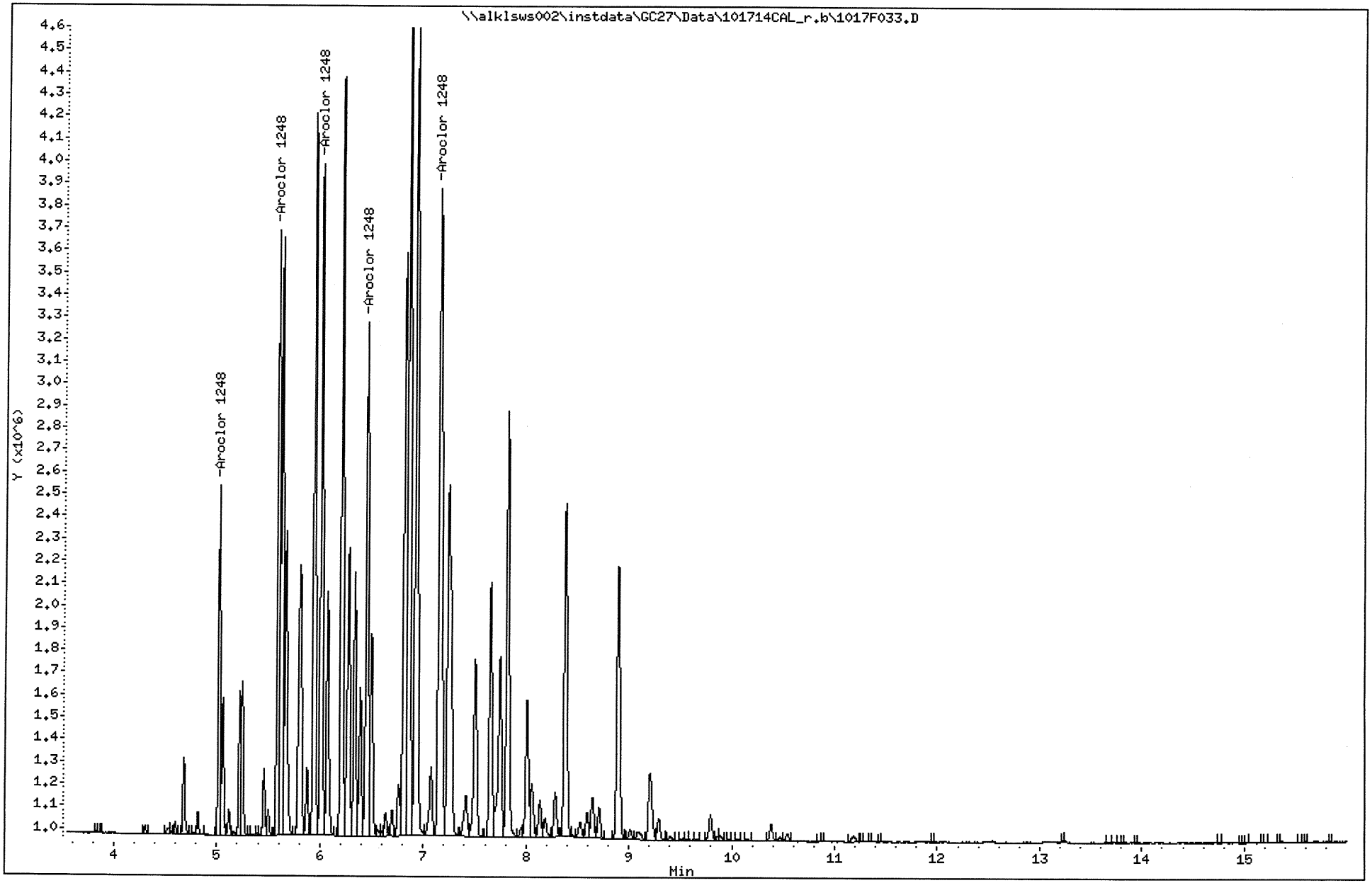


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

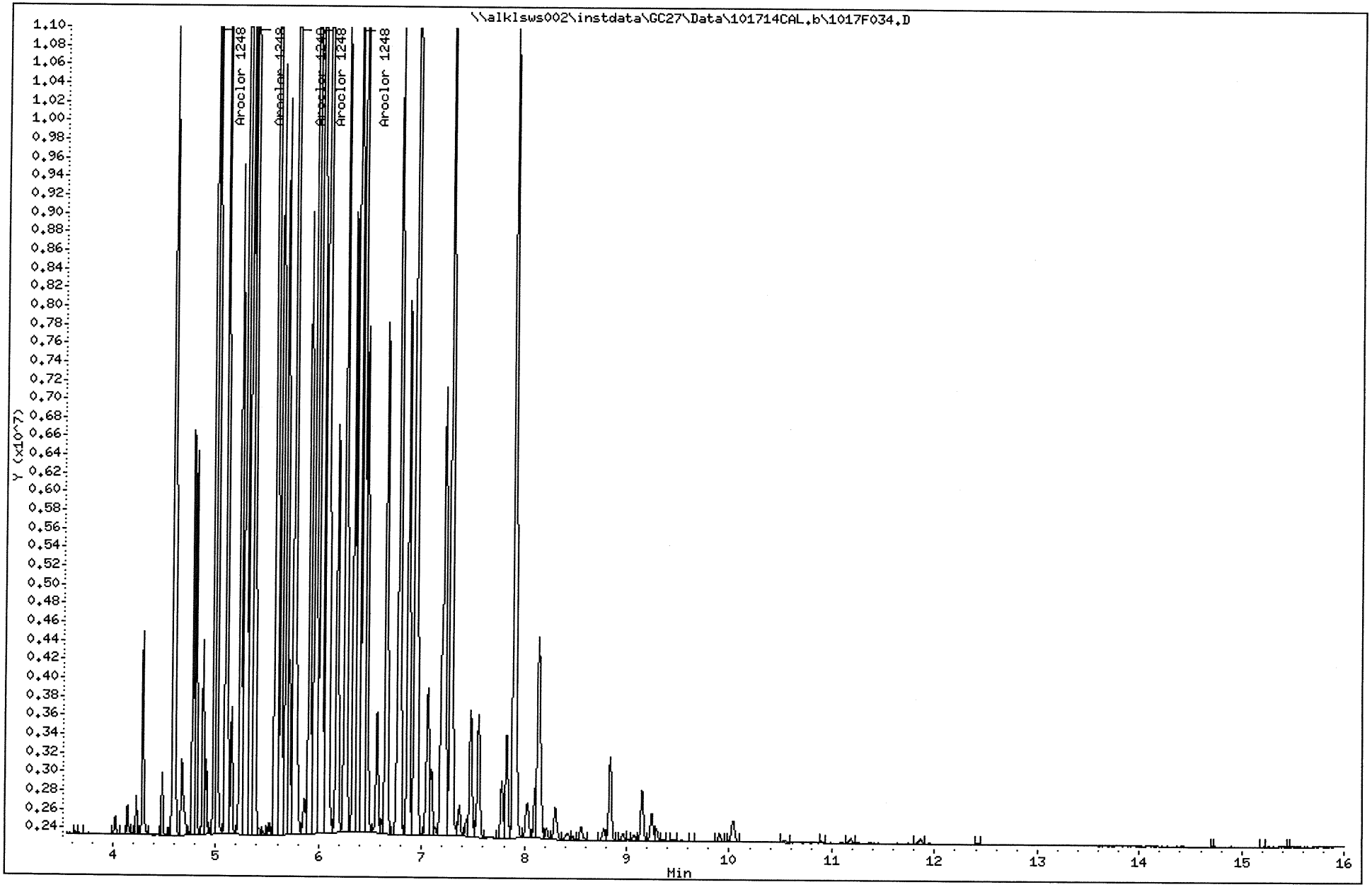
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

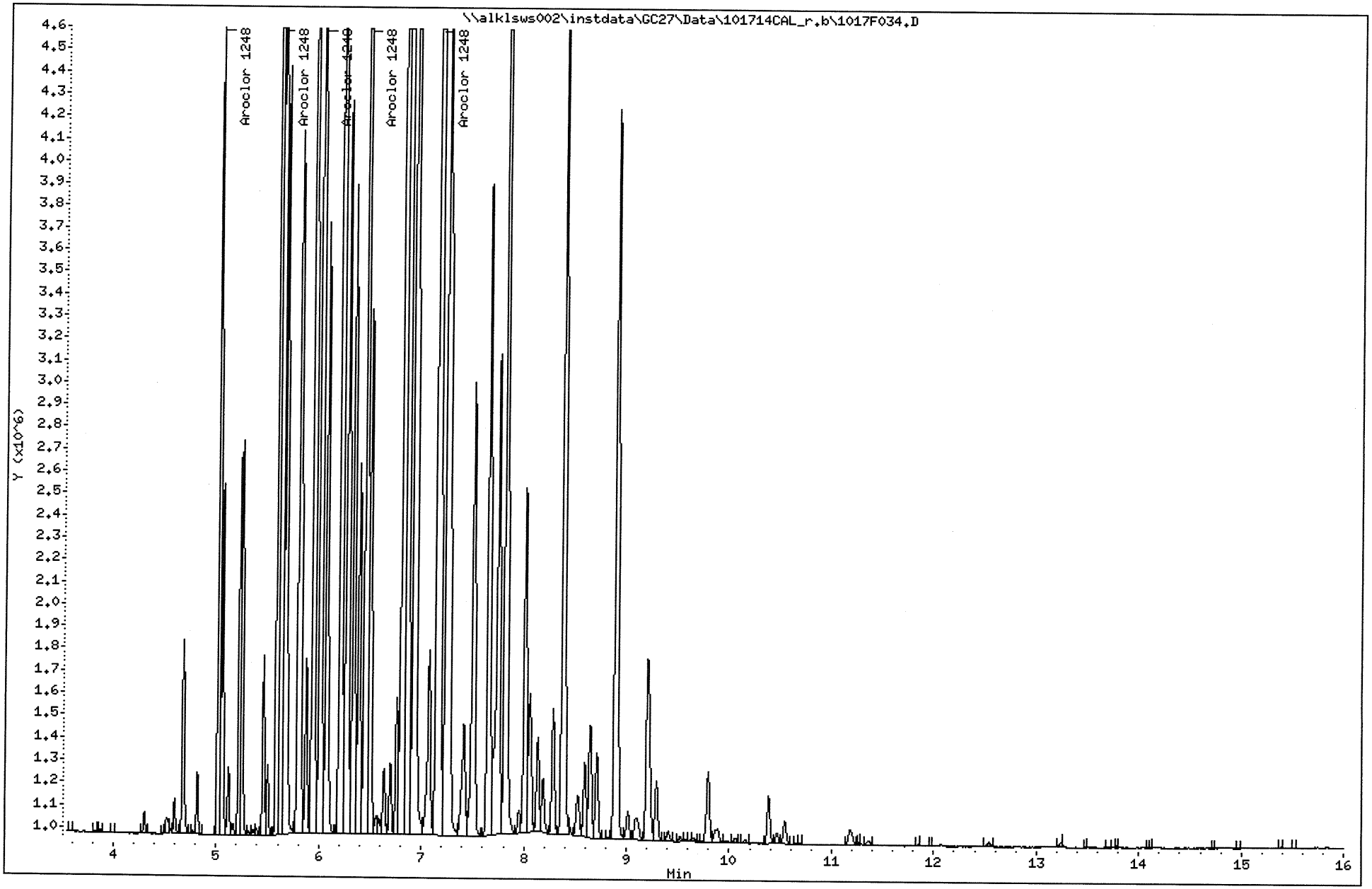


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

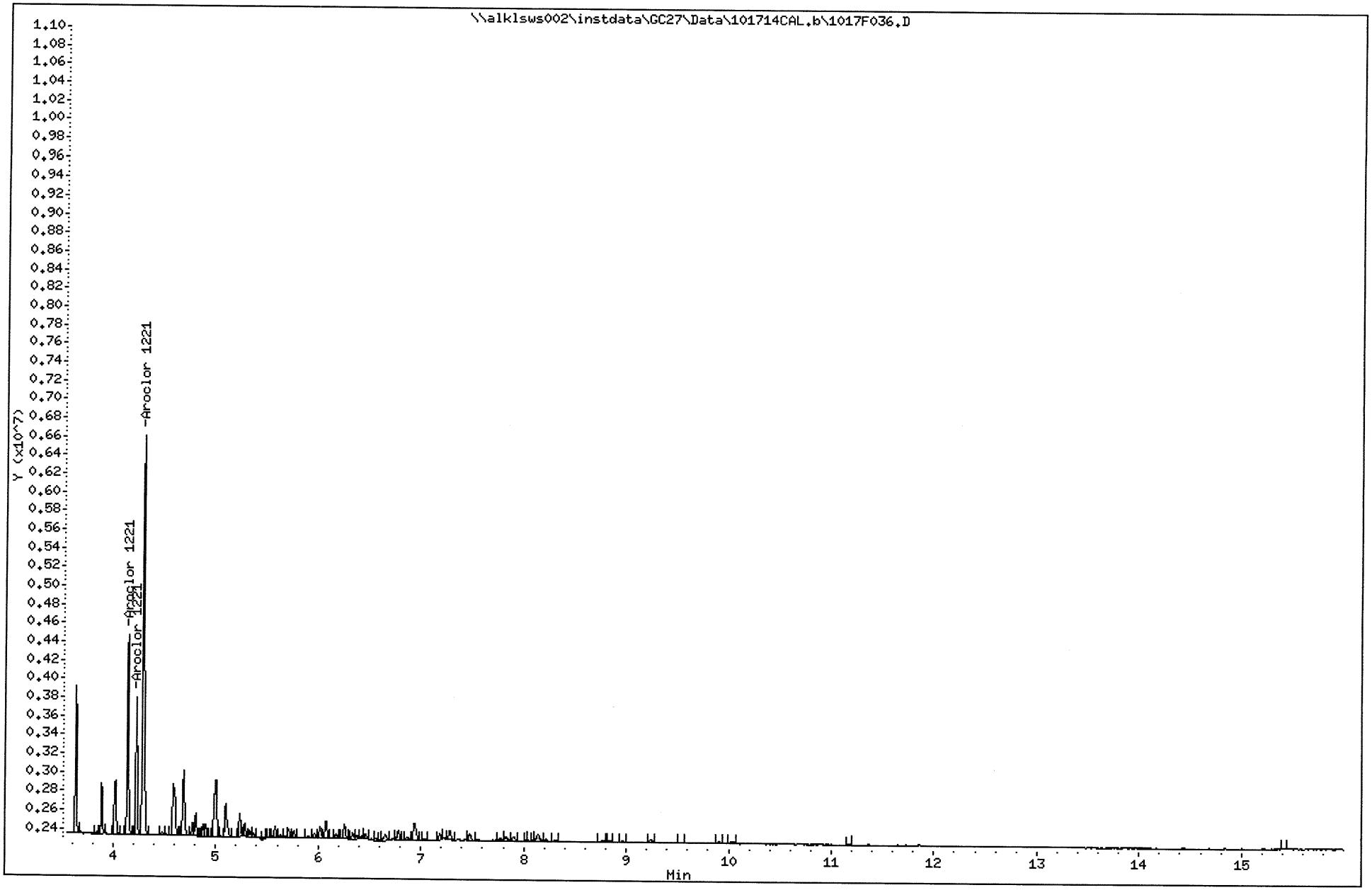
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



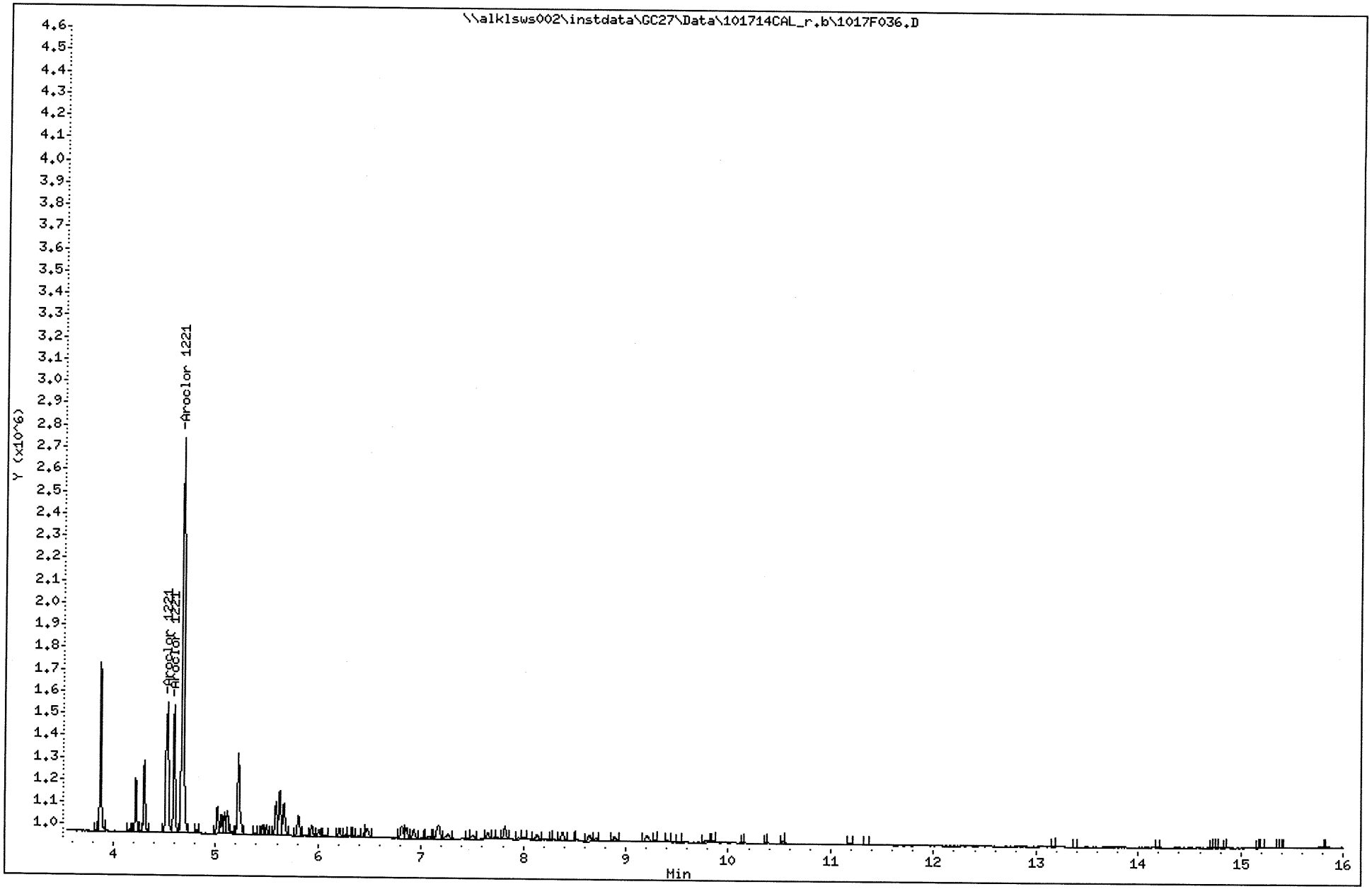
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

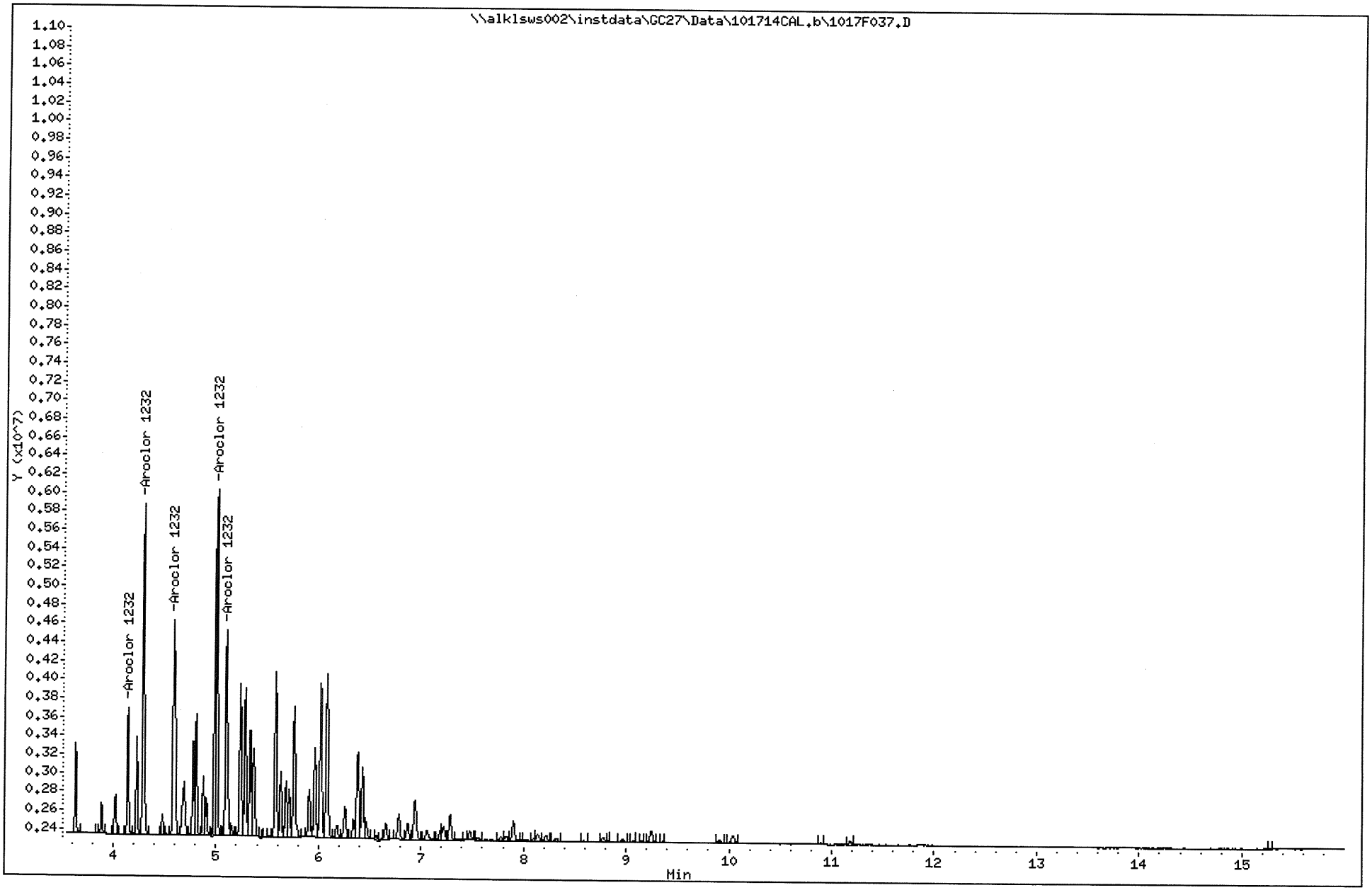
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



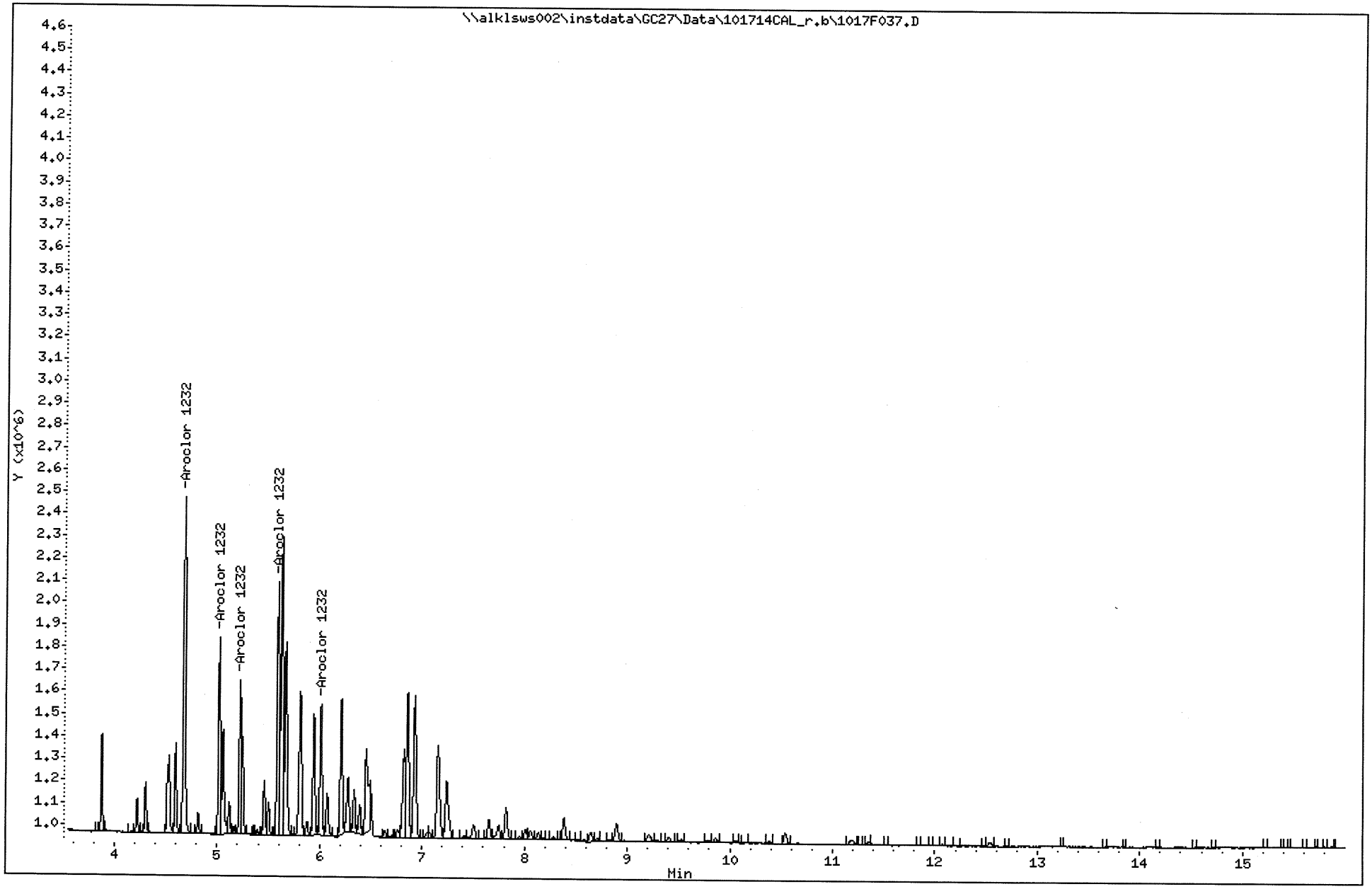
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

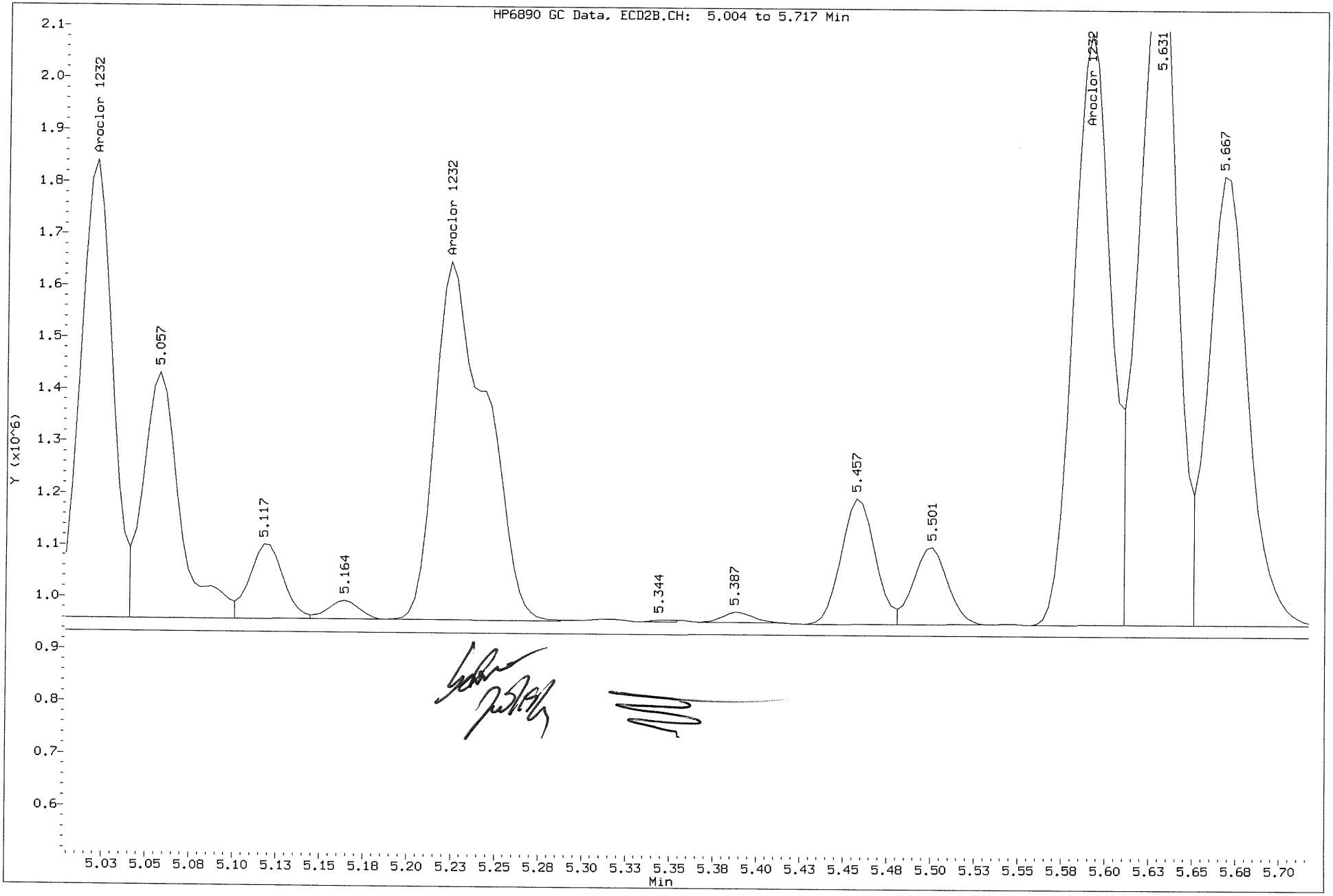
Operator: JMSmith

Column phase: DB-XLB

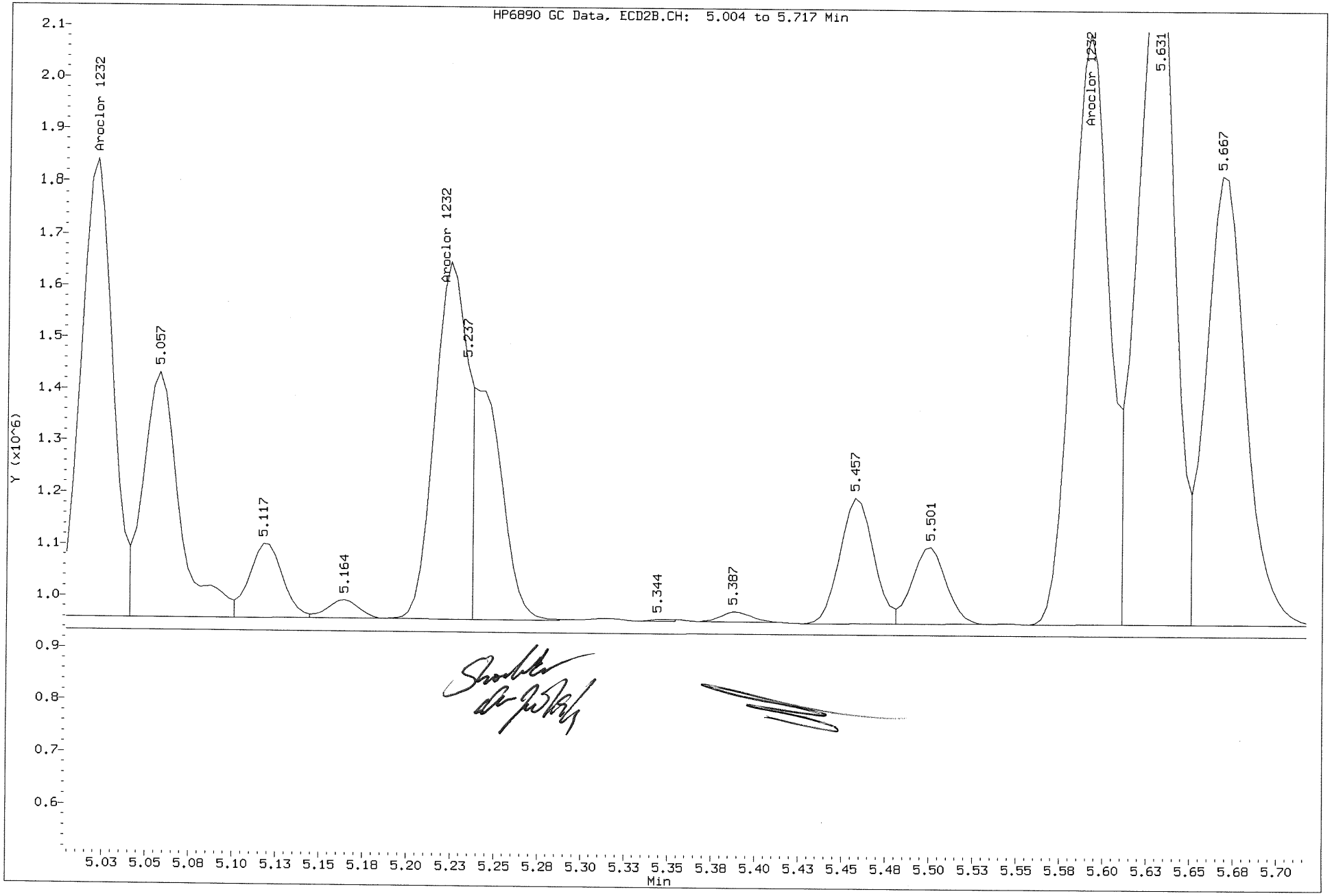
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

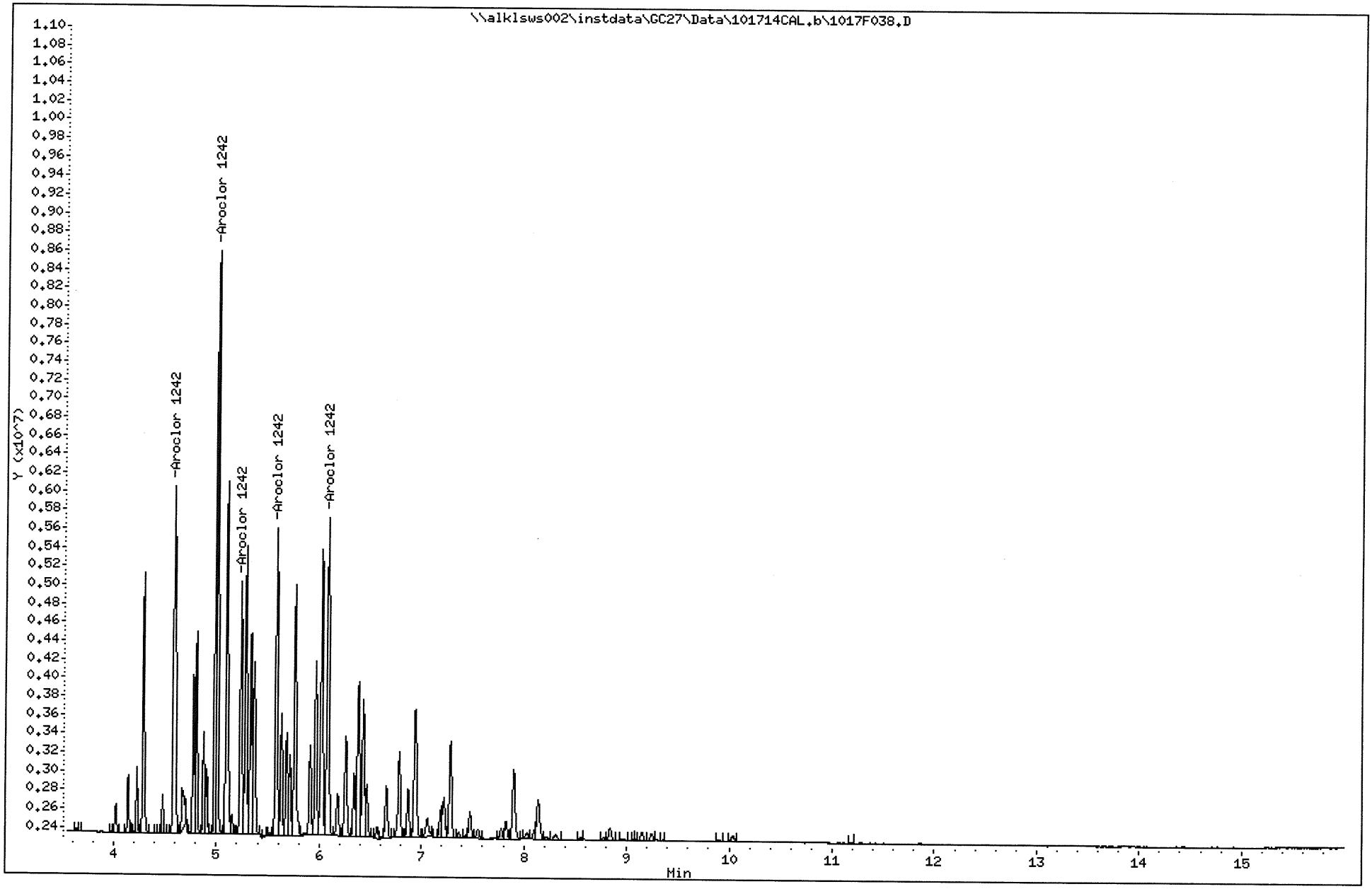
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

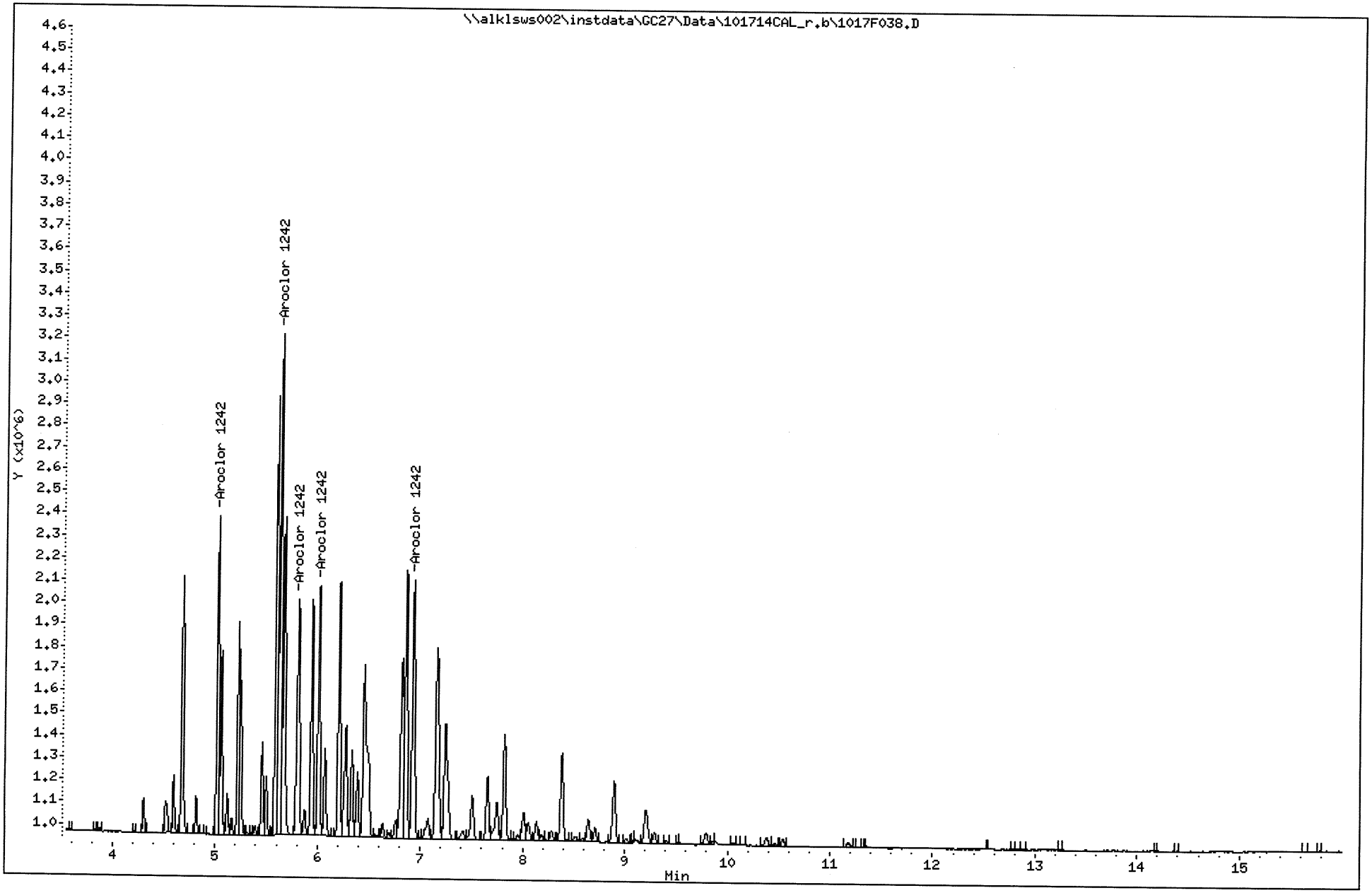


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

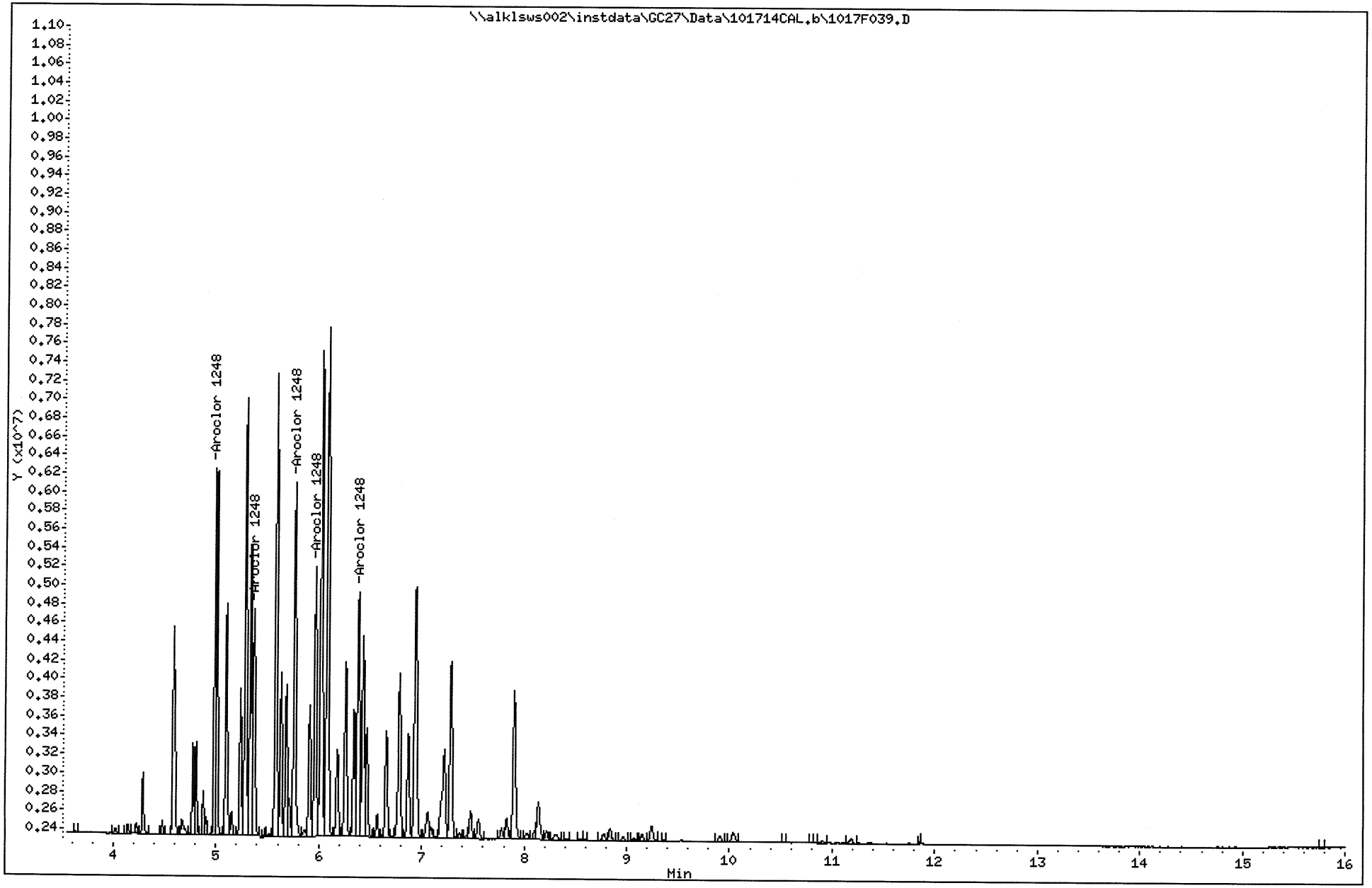
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



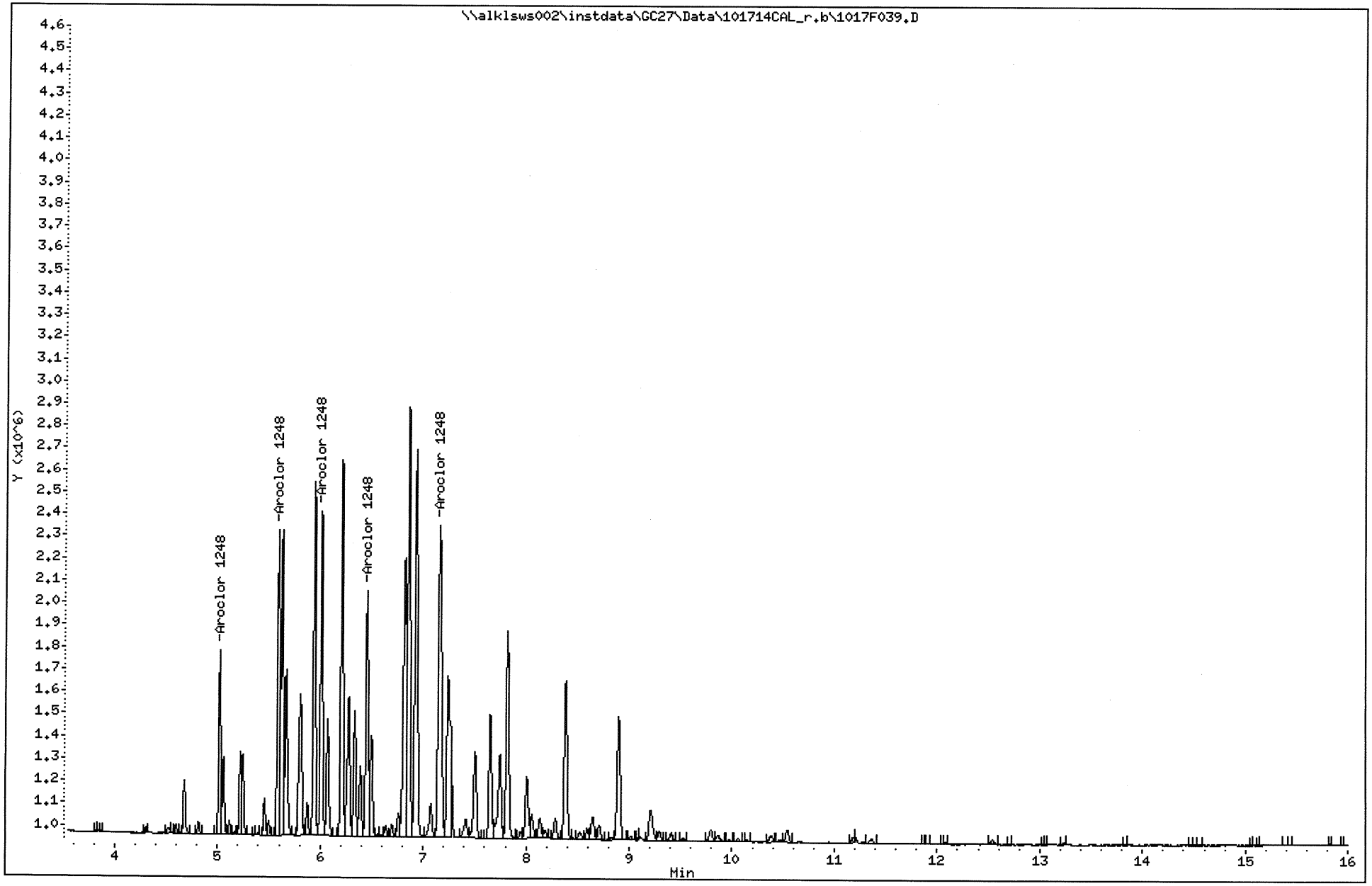
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

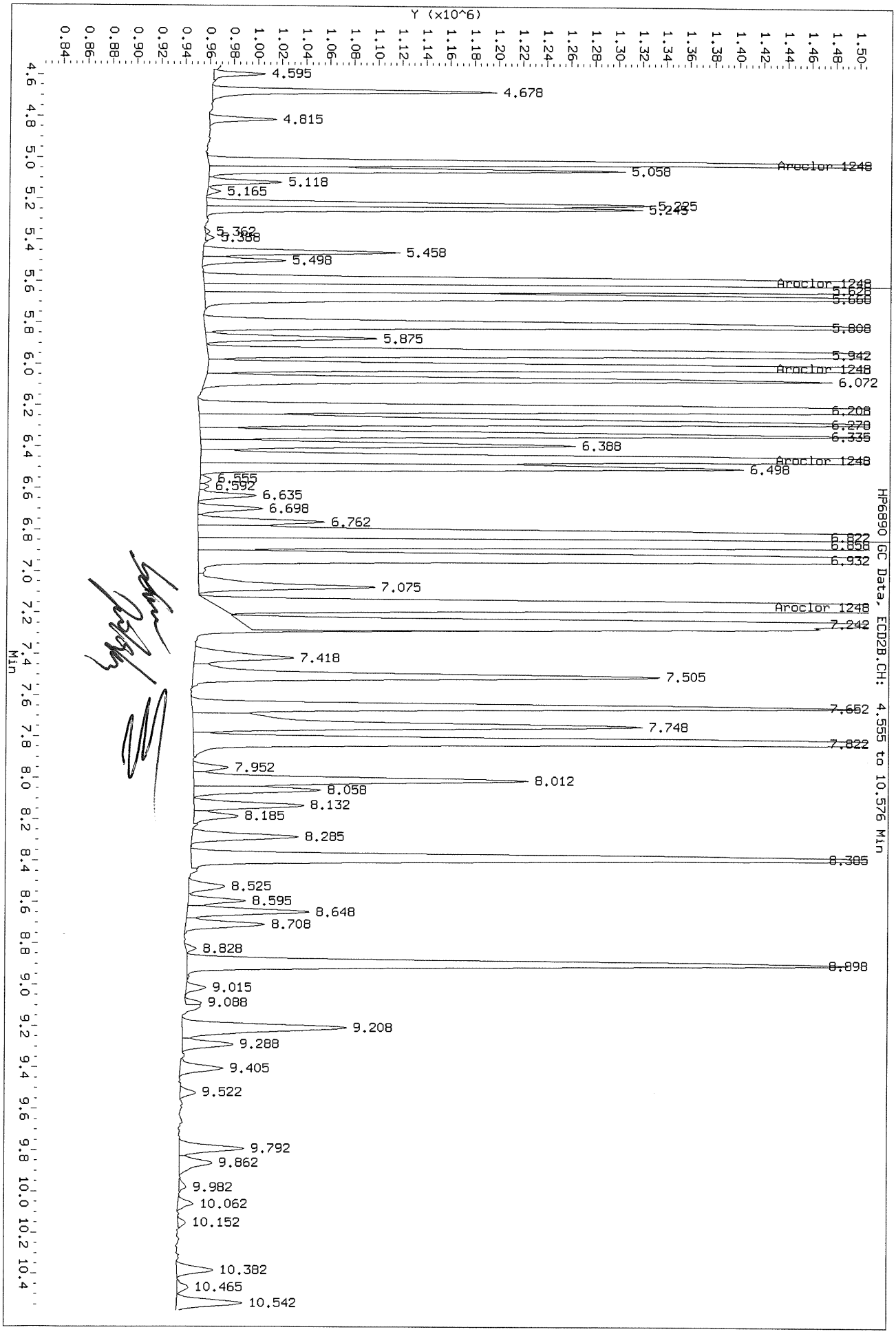
Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
4.595
4.678
4.815
Aroclor 1248
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
Aroclor 1248
5.620
5.660
5.808
5.875
5.942
Aroclor 1248
6.072
6.208
6.270
6.335
6.388
Aroclor 1248
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
Aroclor 1248
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
8.058
8.132
8.185
8.285
8.385
8.525
8.595
8.648
8.708
8.828
8.898
9.015
9.088
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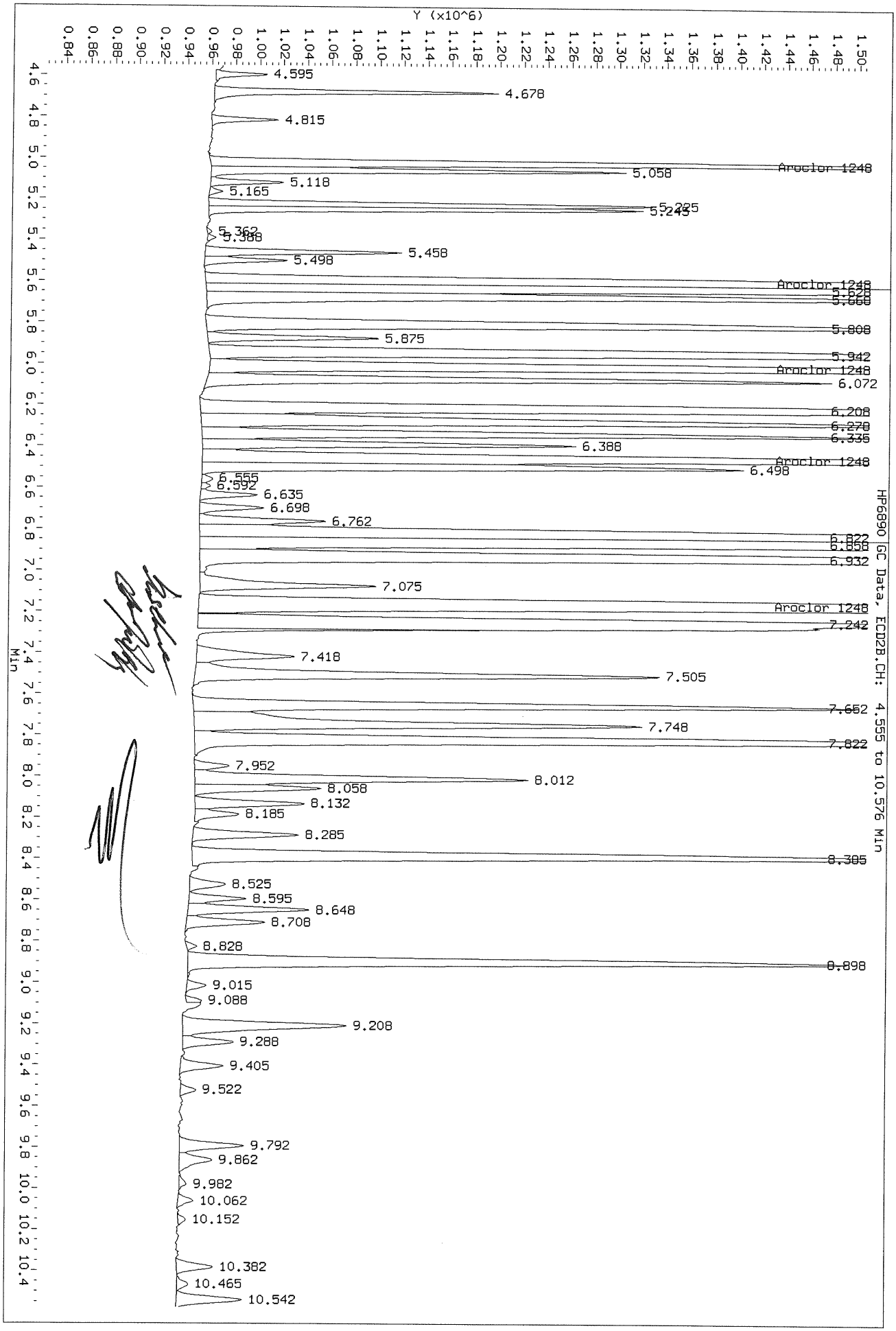
10.152
10.382
10.465
10.542


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
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6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
7.242
7.418
7.505
7.652
7.748
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8.012
8.058
8.132
8.185
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9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

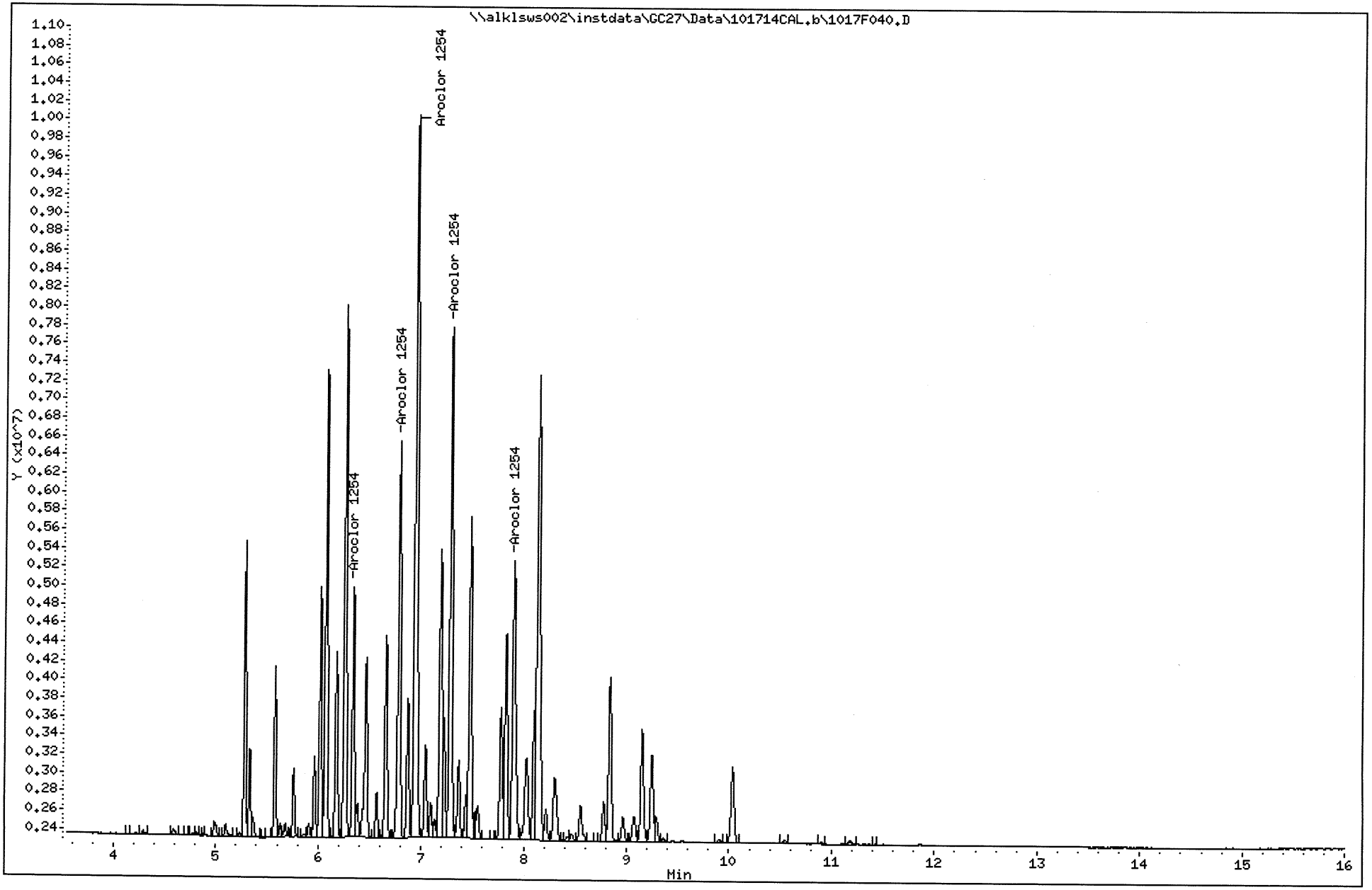
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



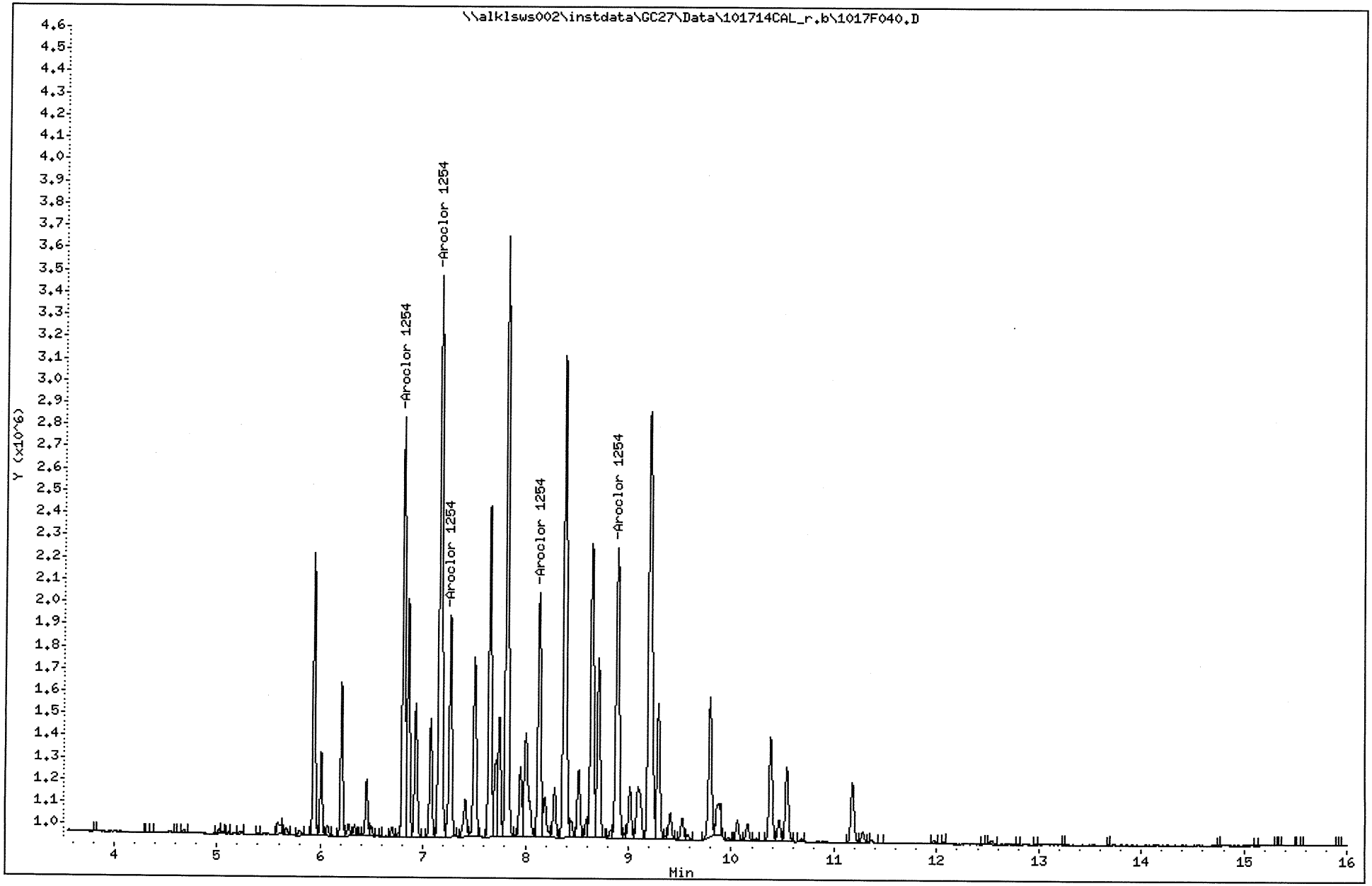
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

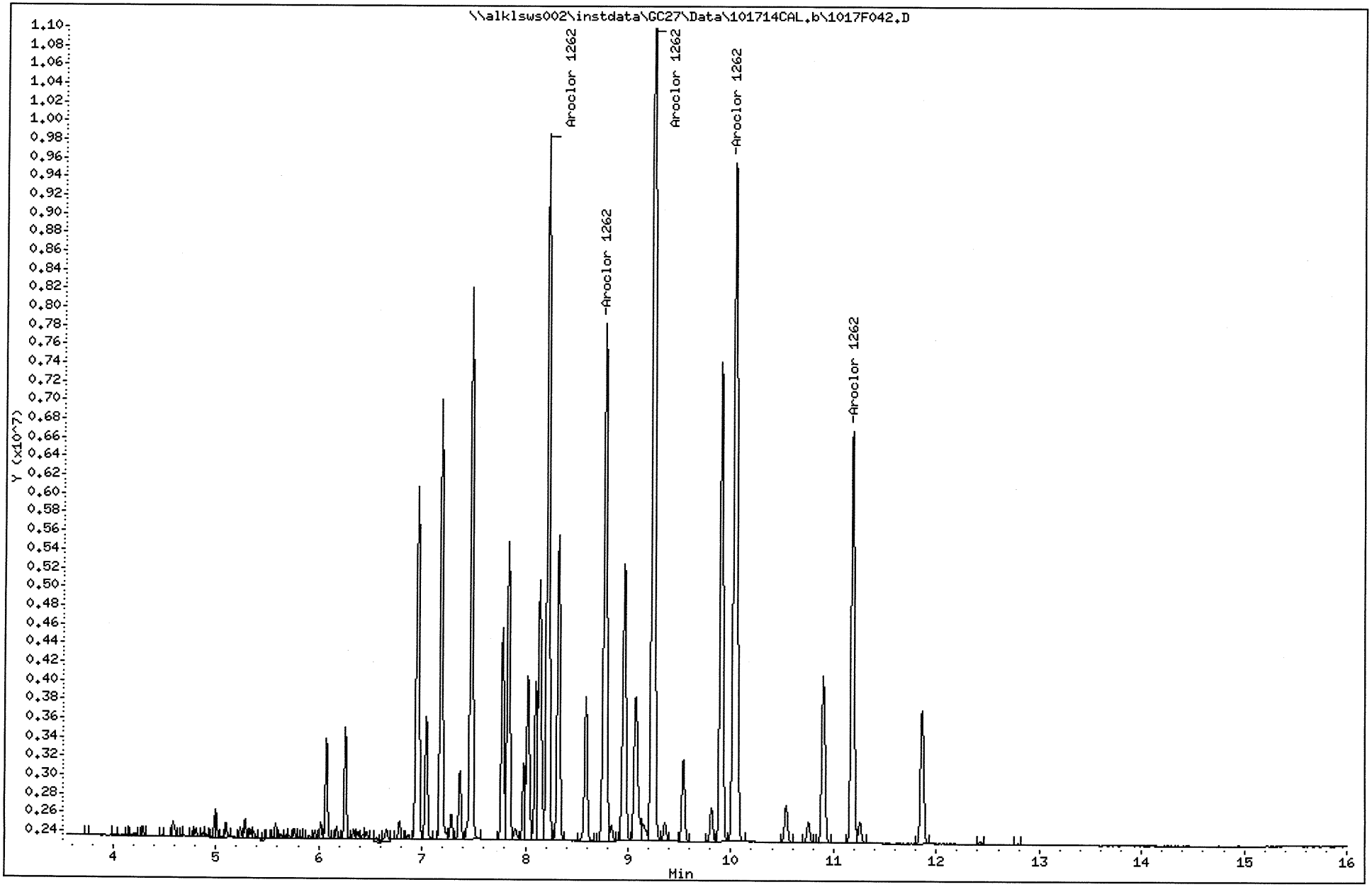
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



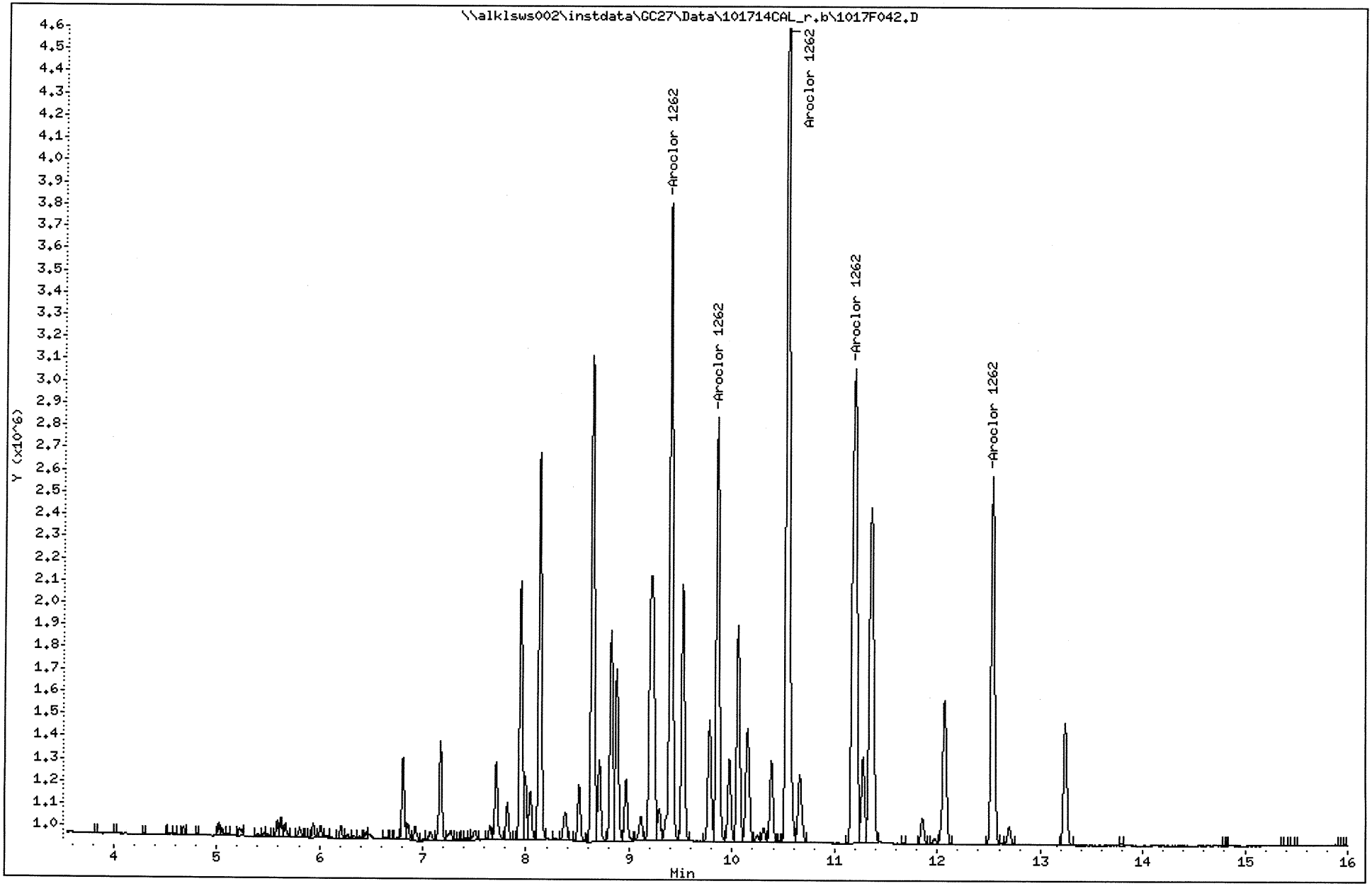
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

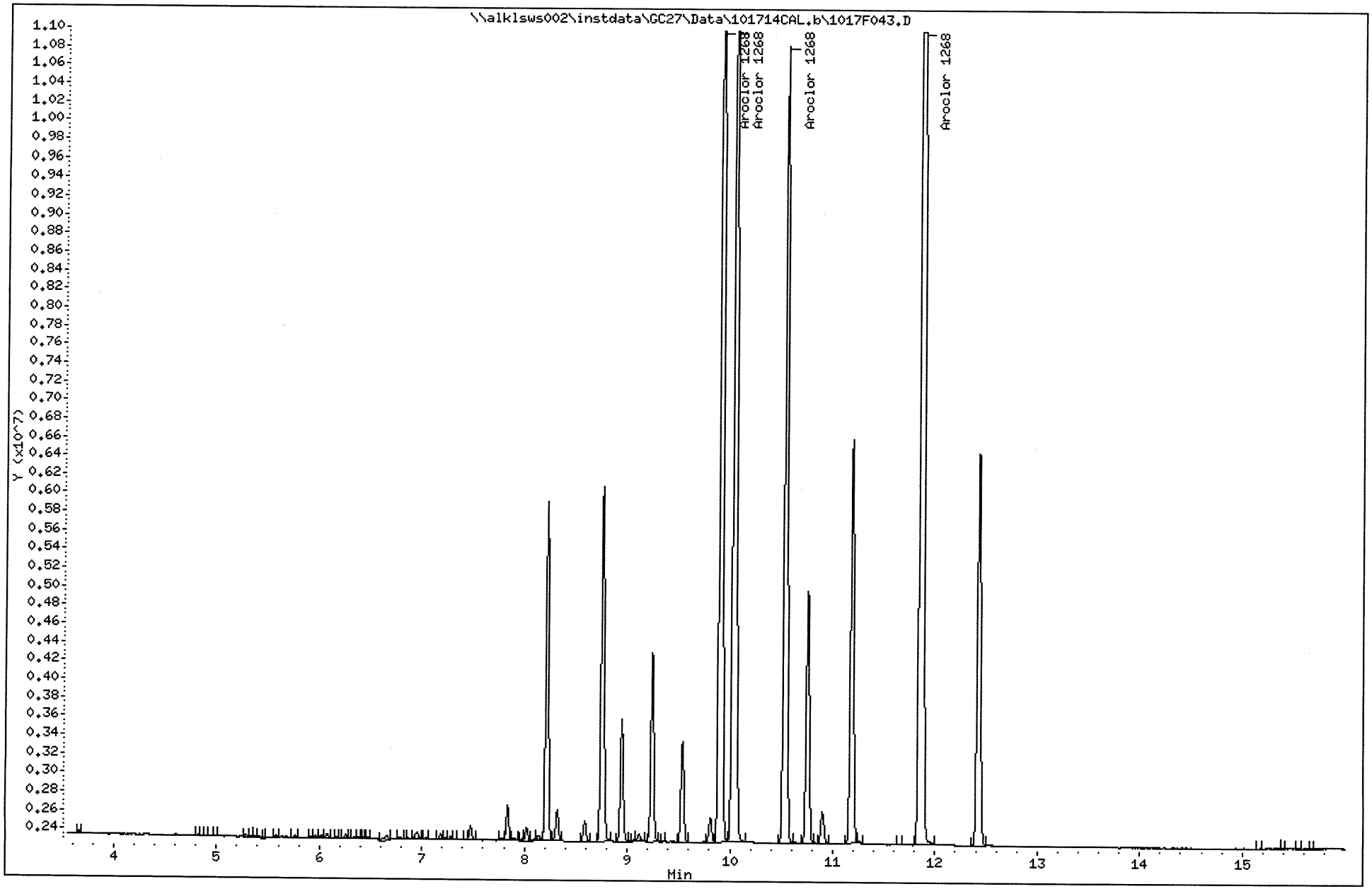
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



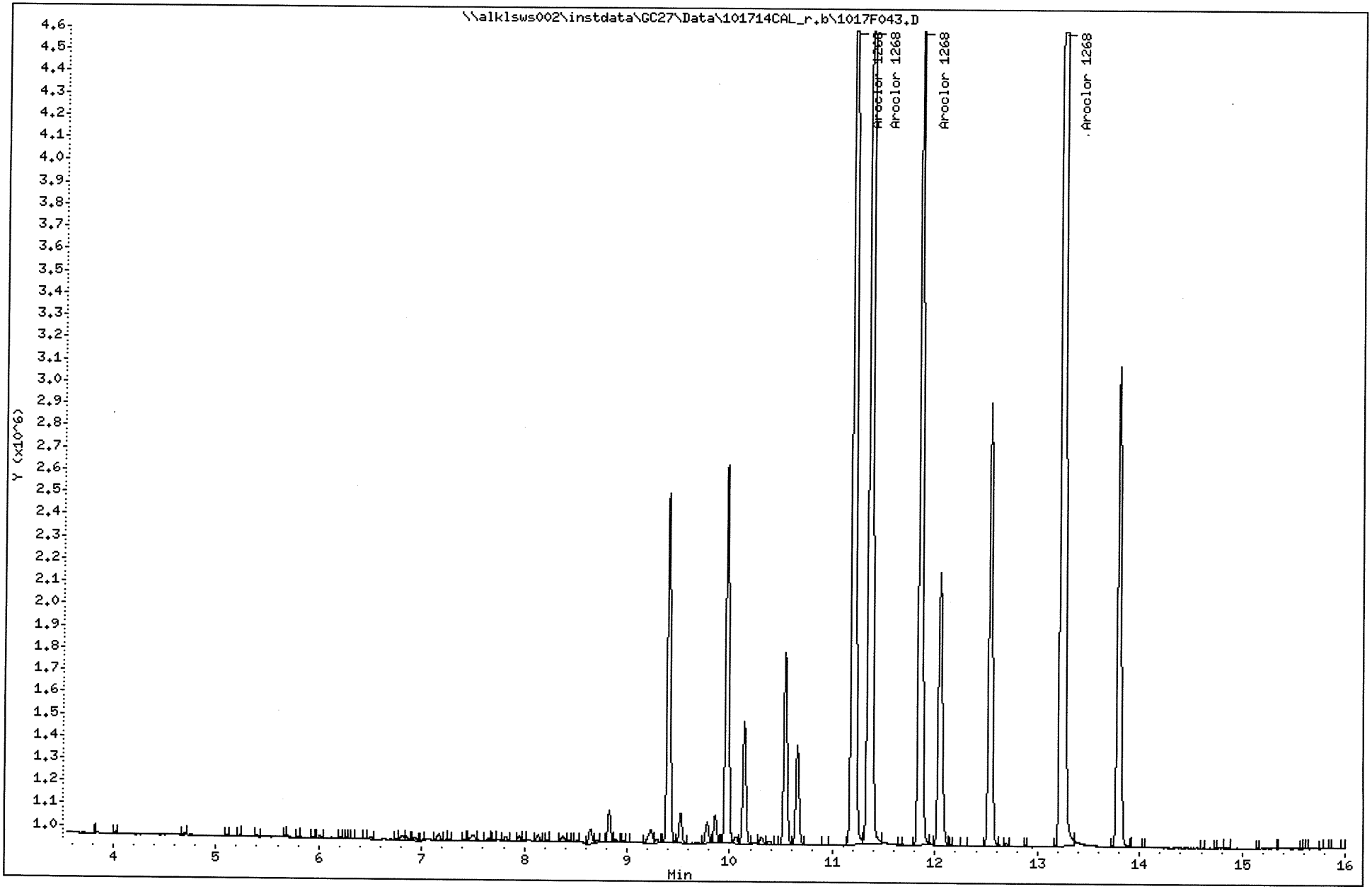
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

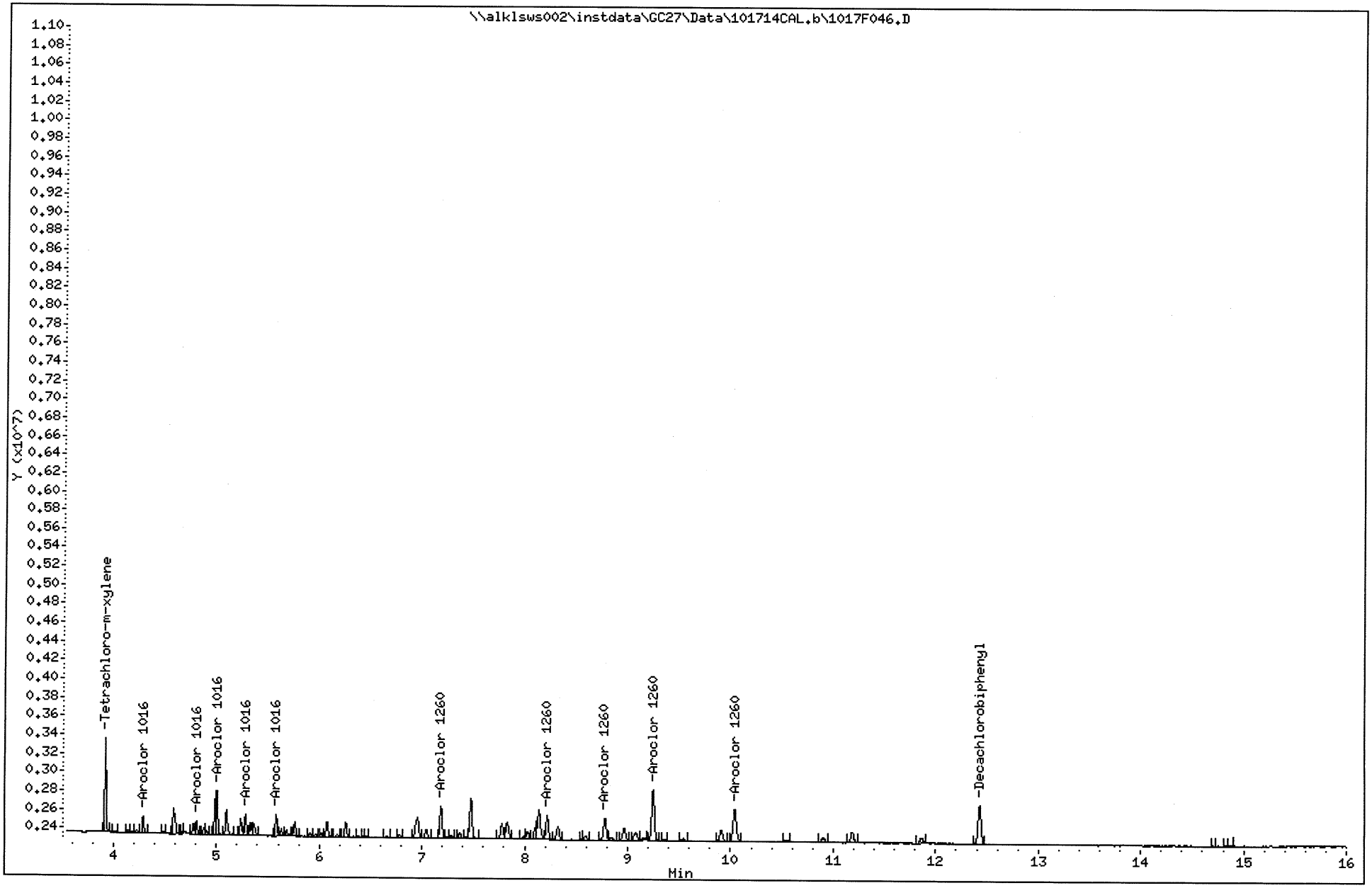
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

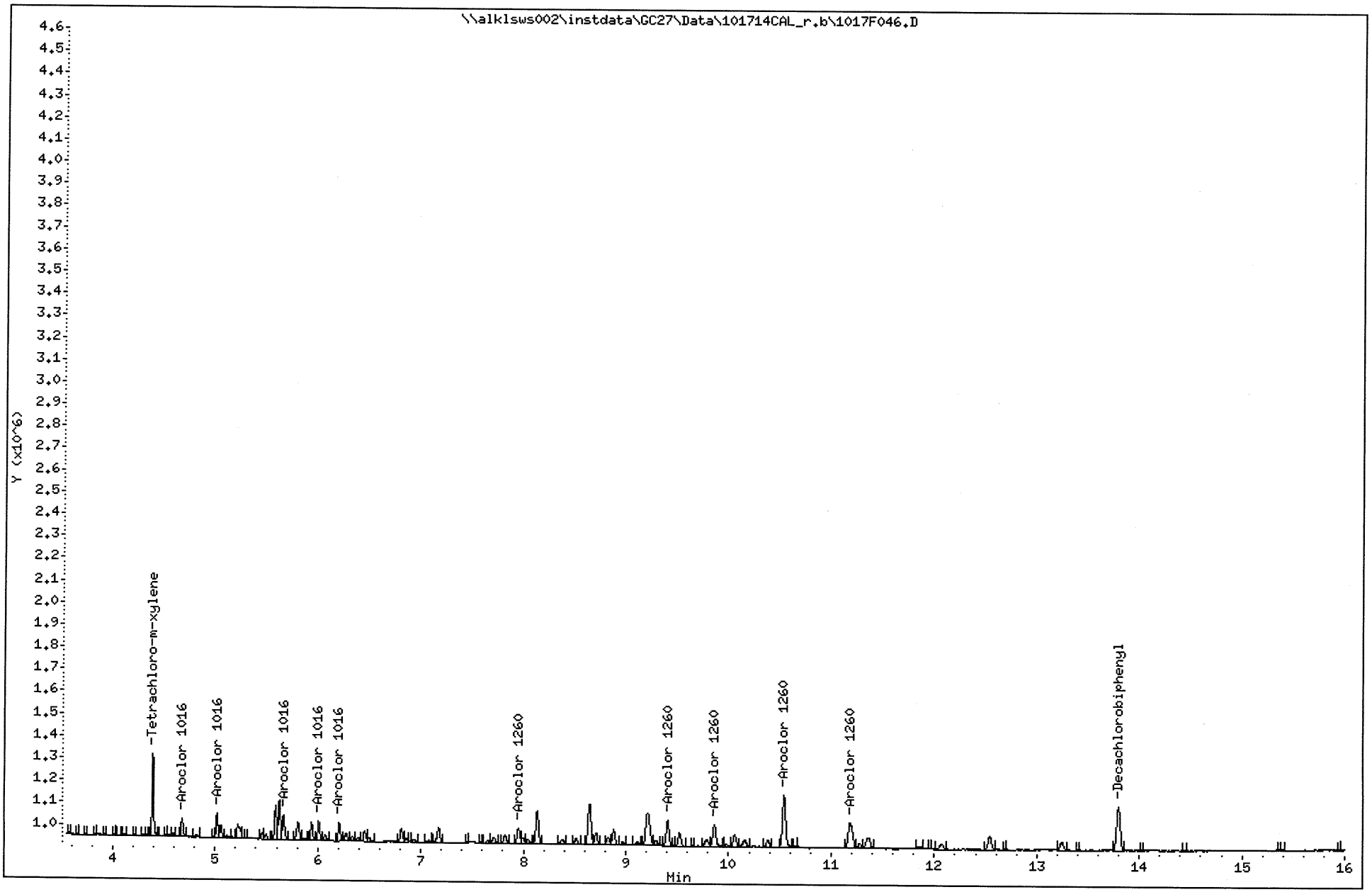


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

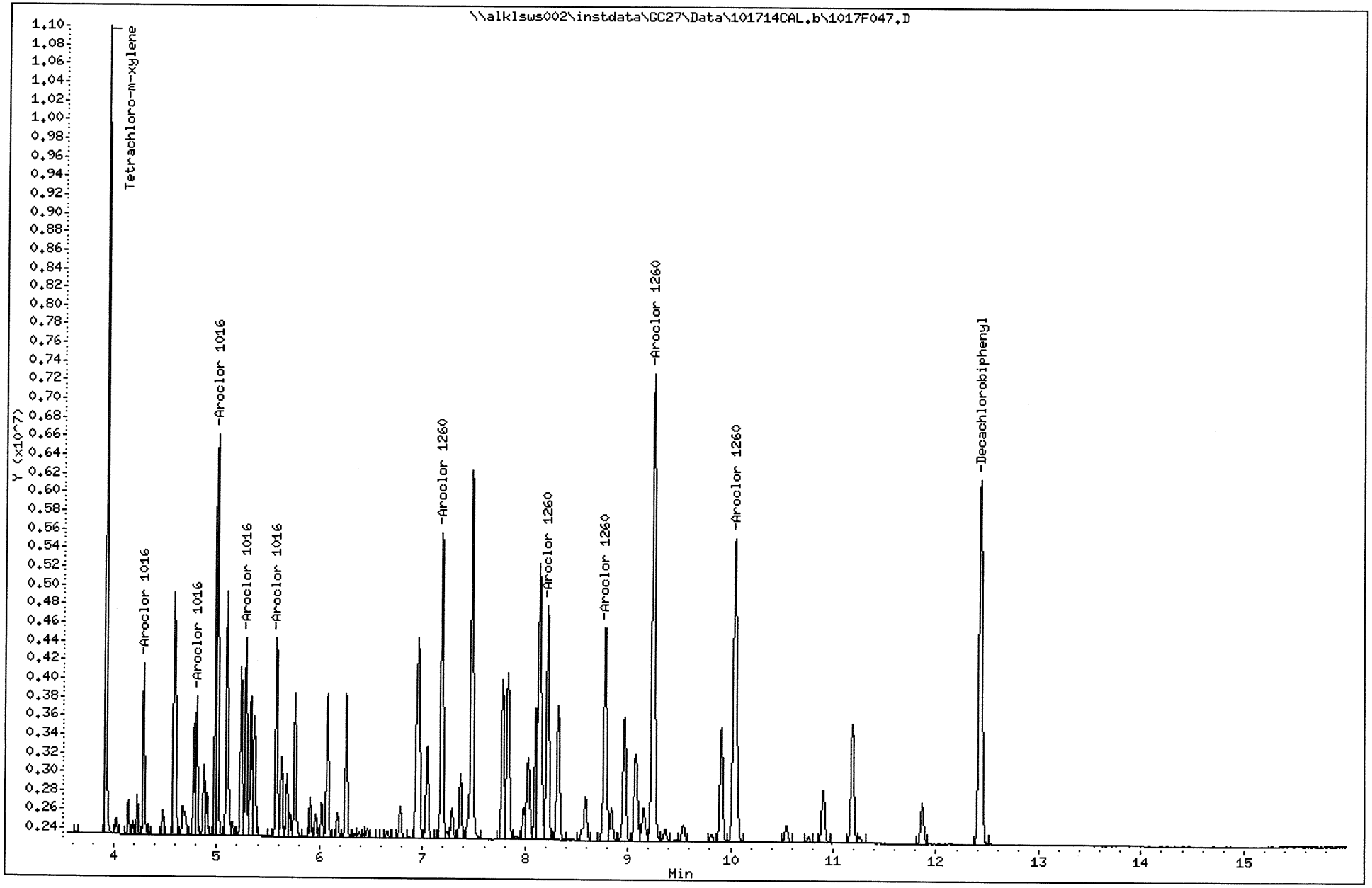
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



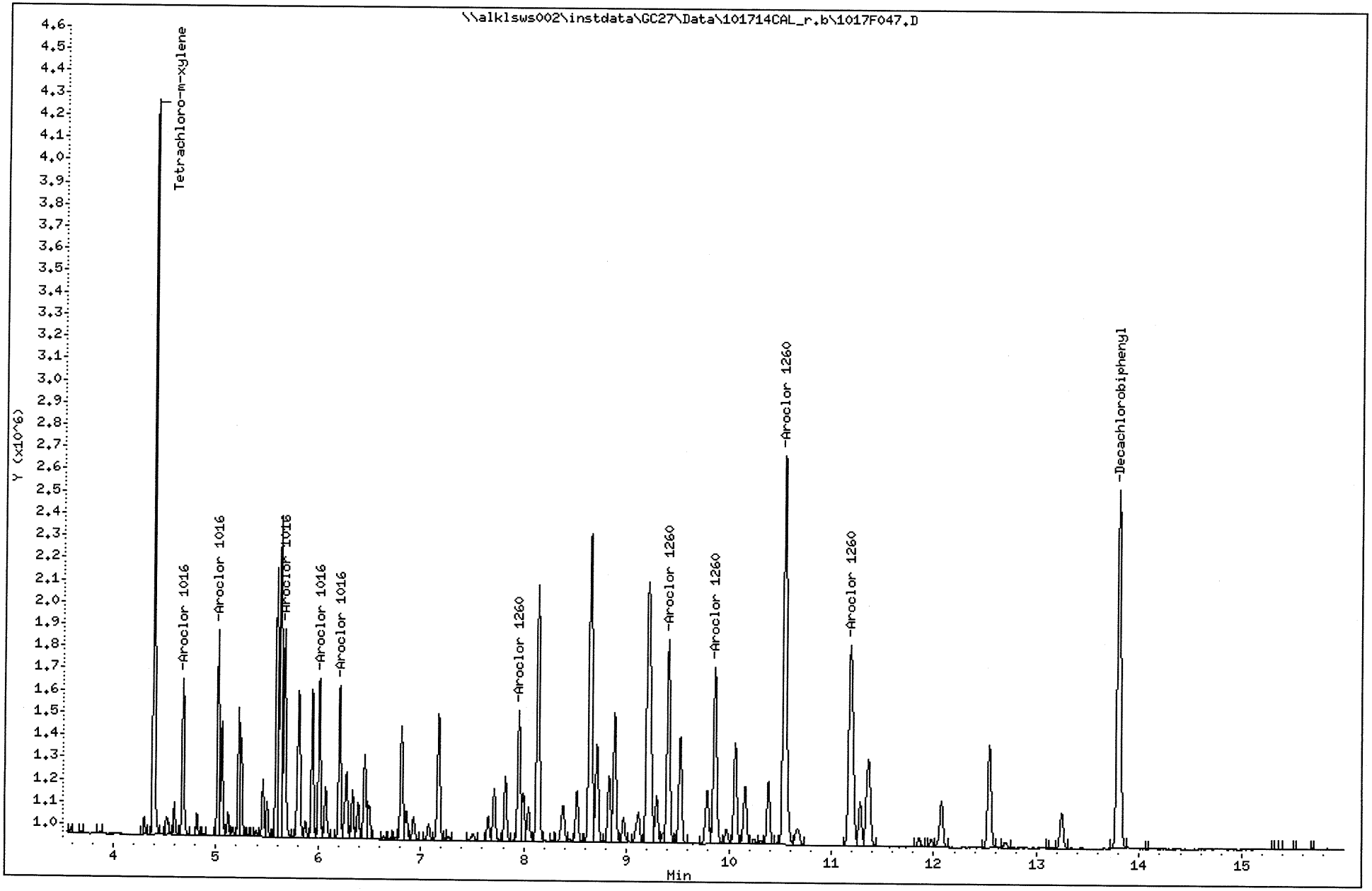
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

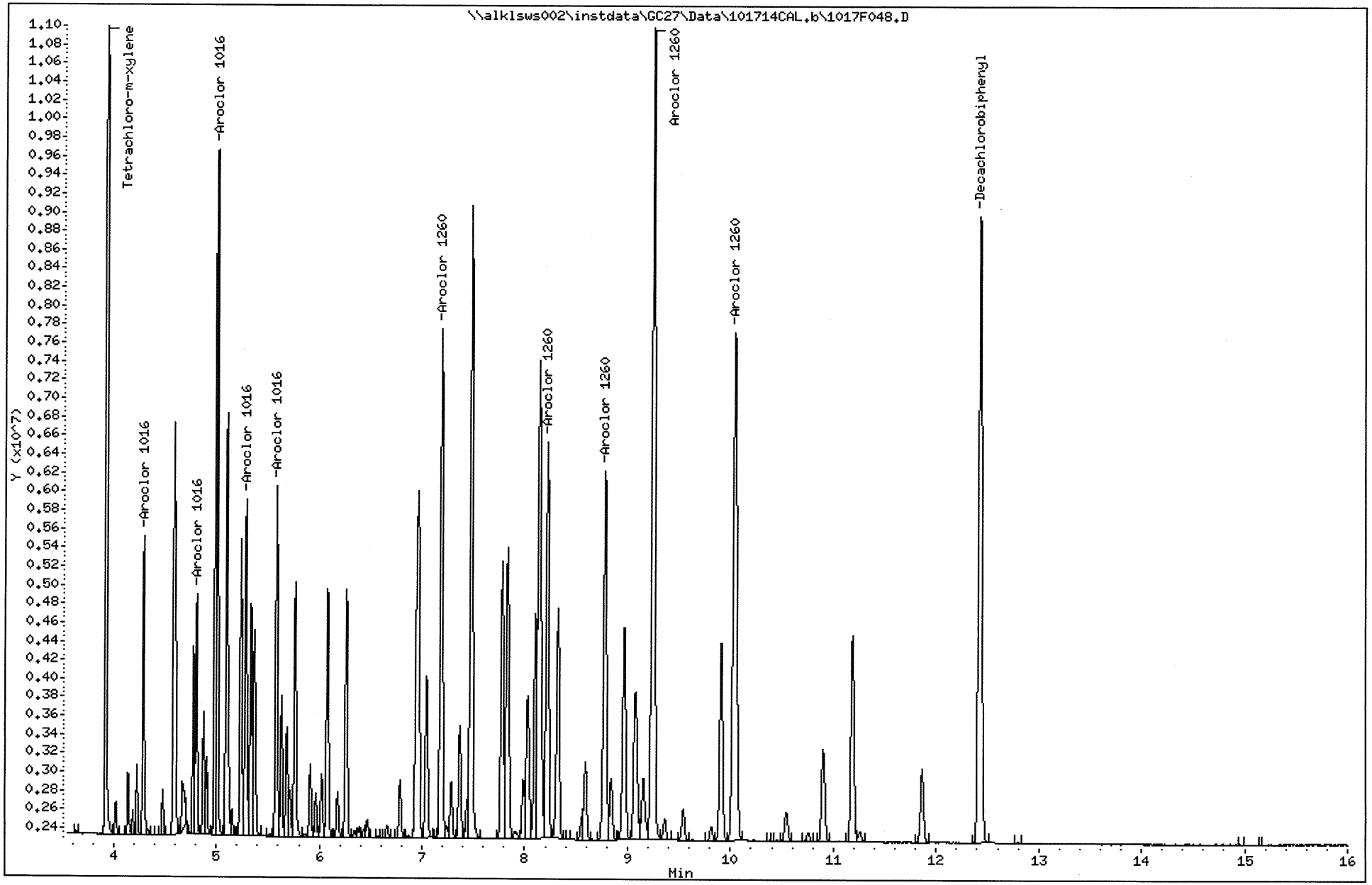
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



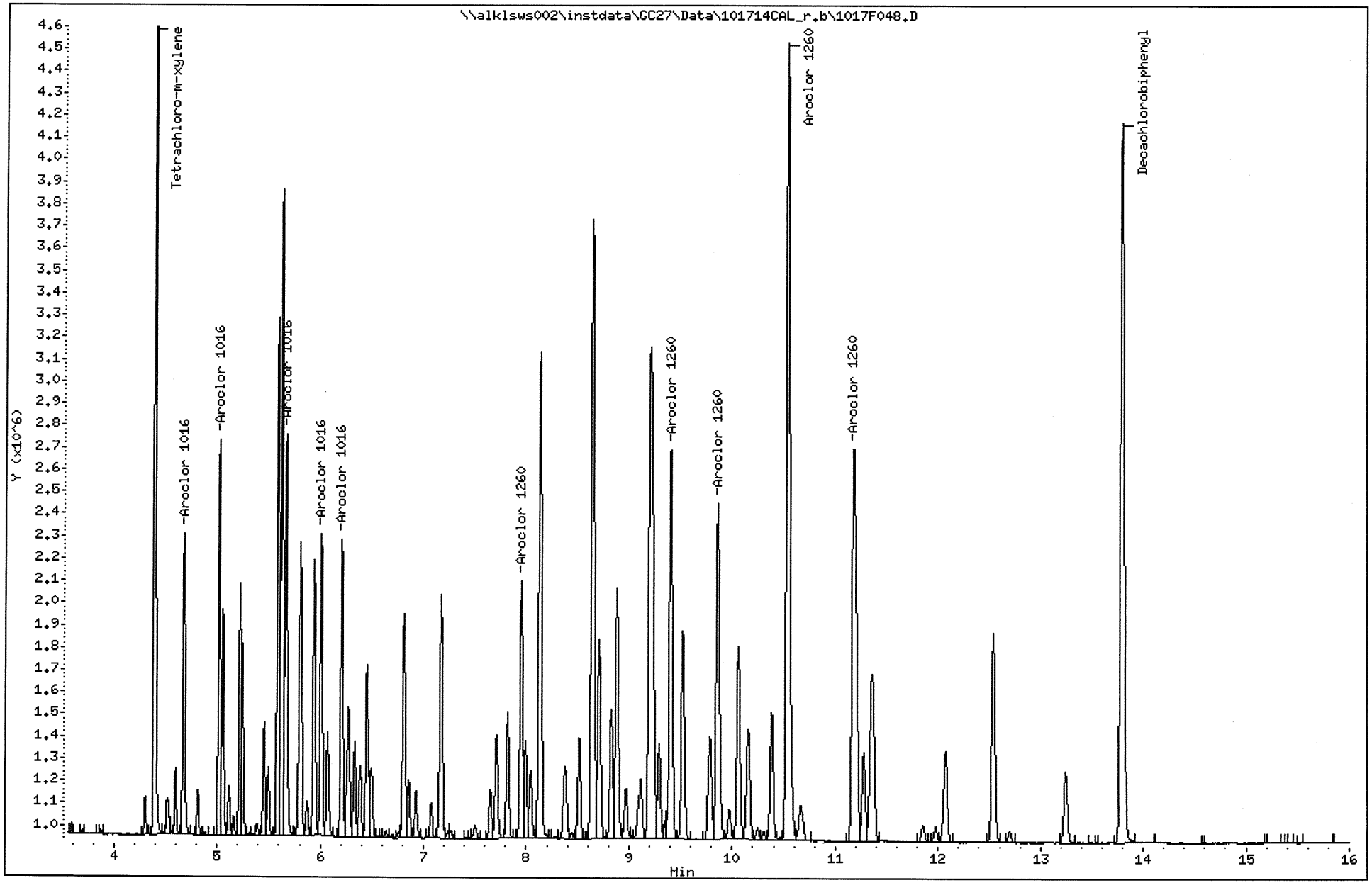
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

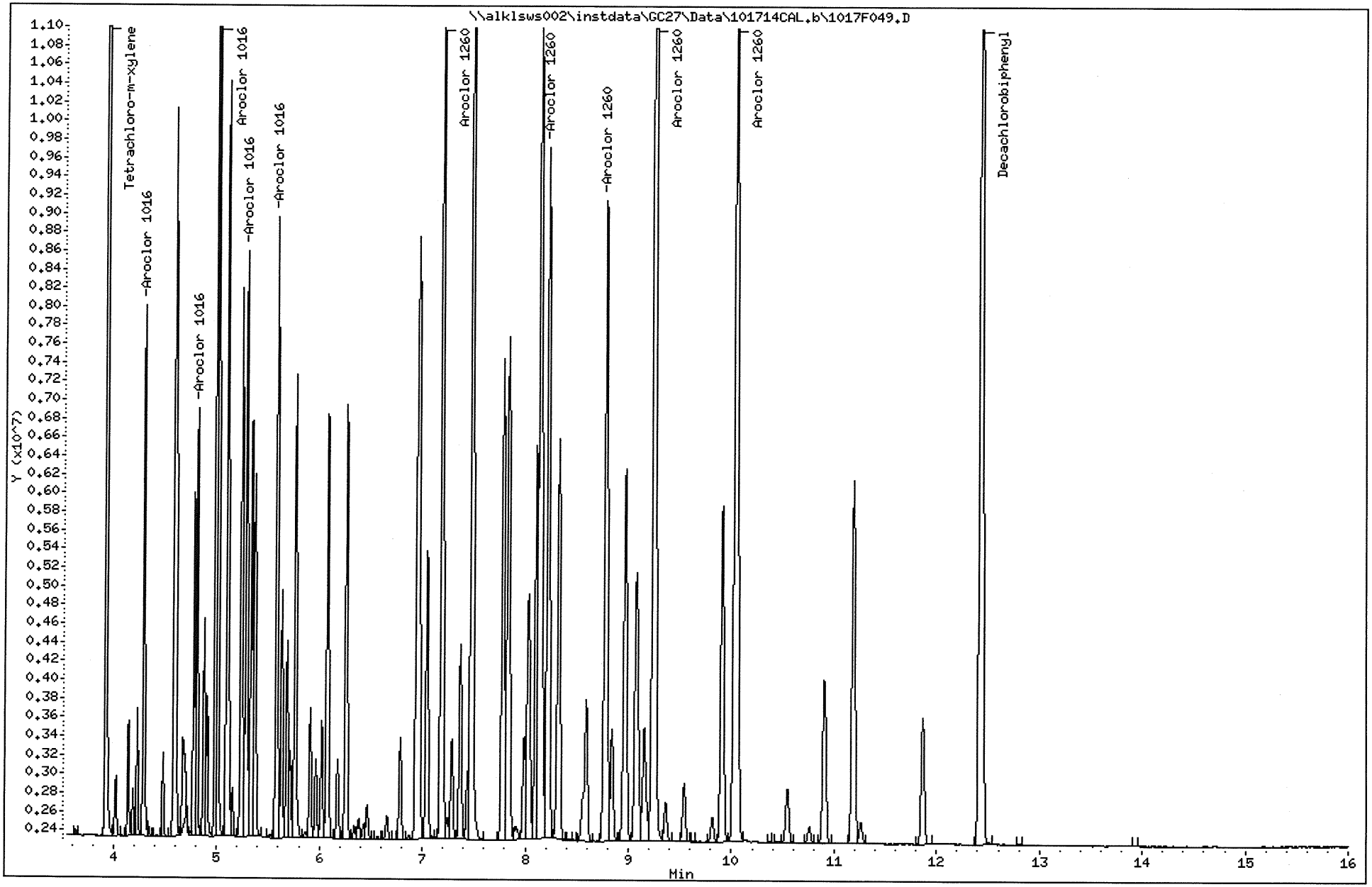
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

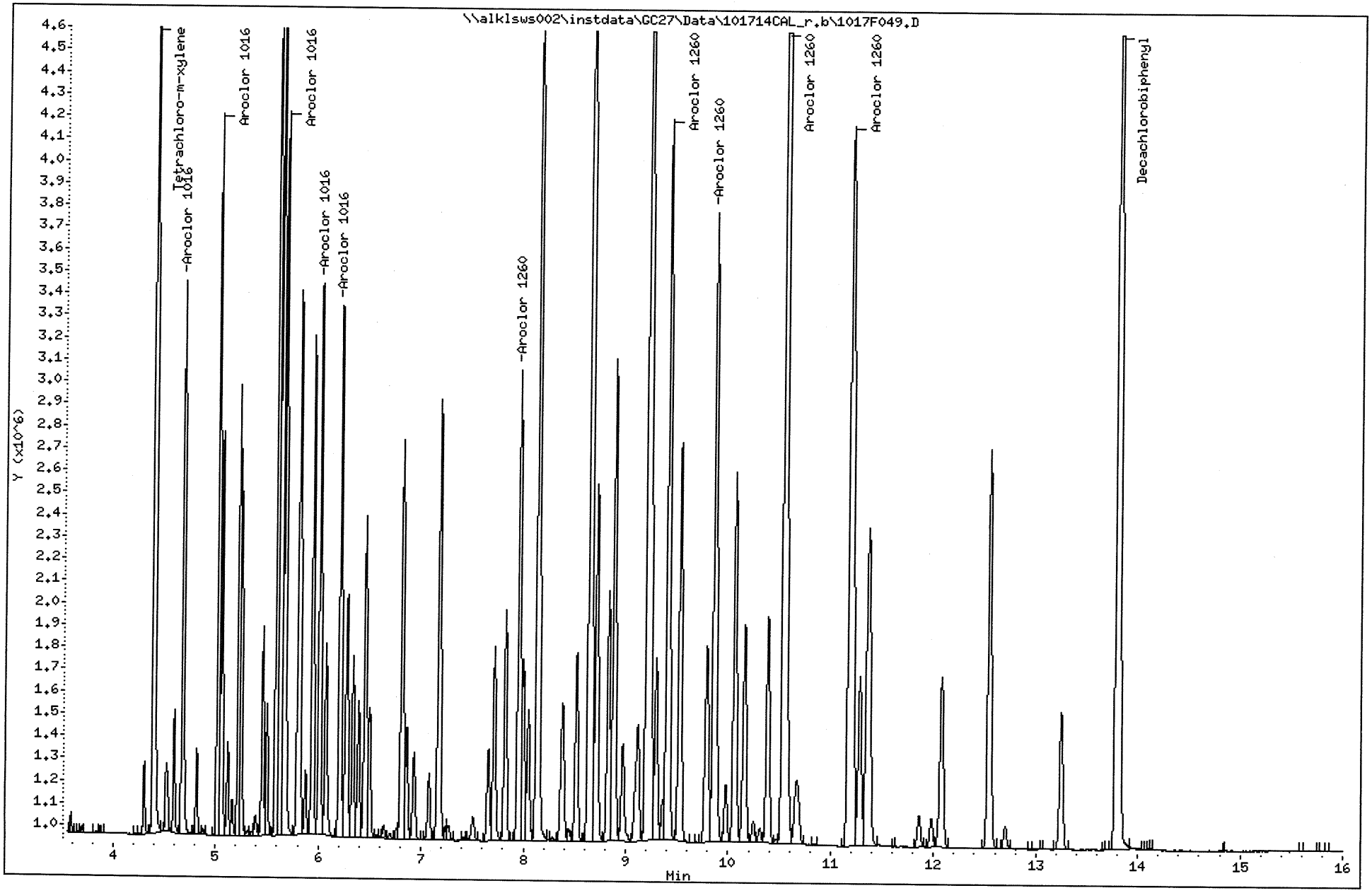


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

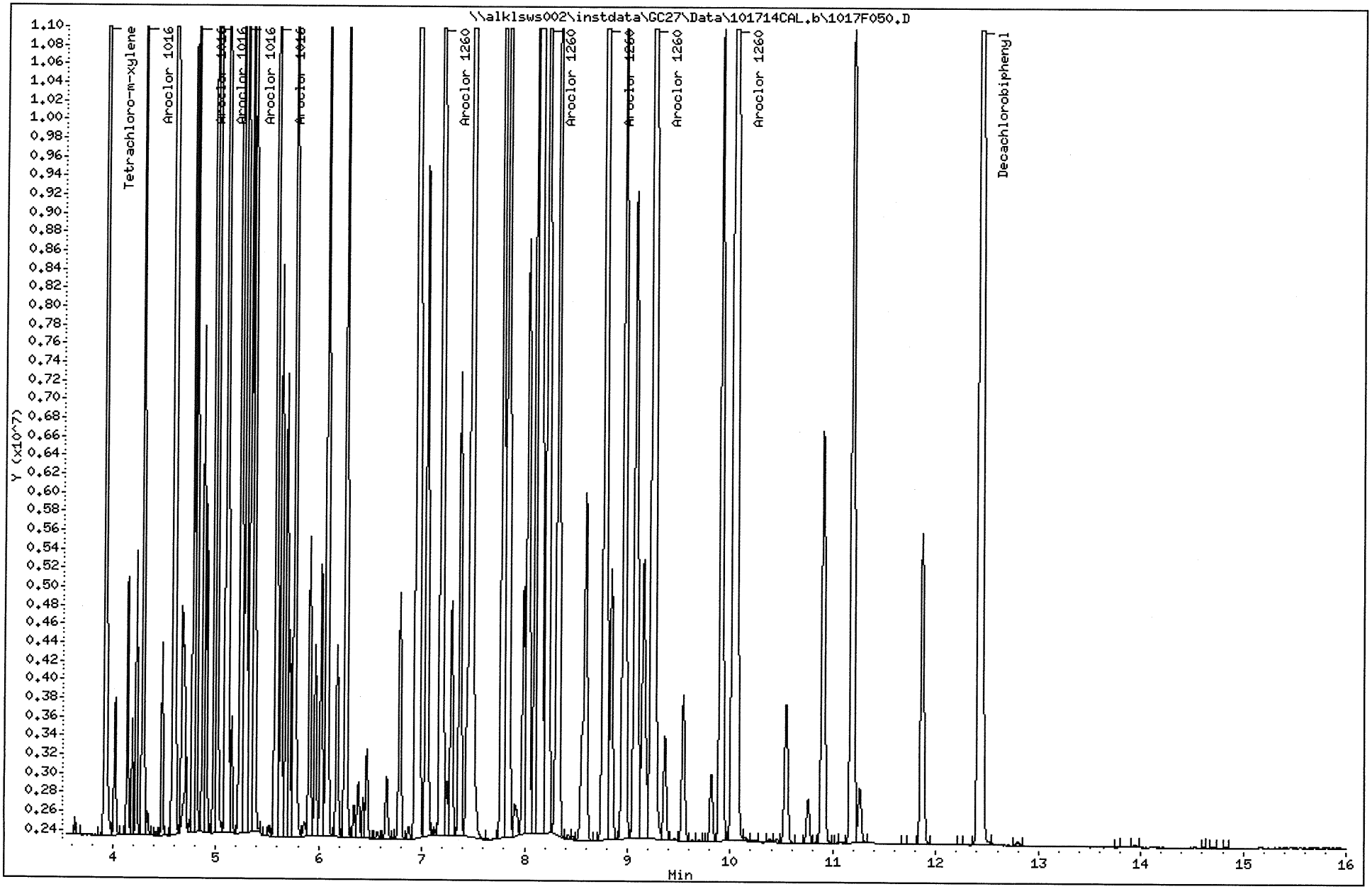
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



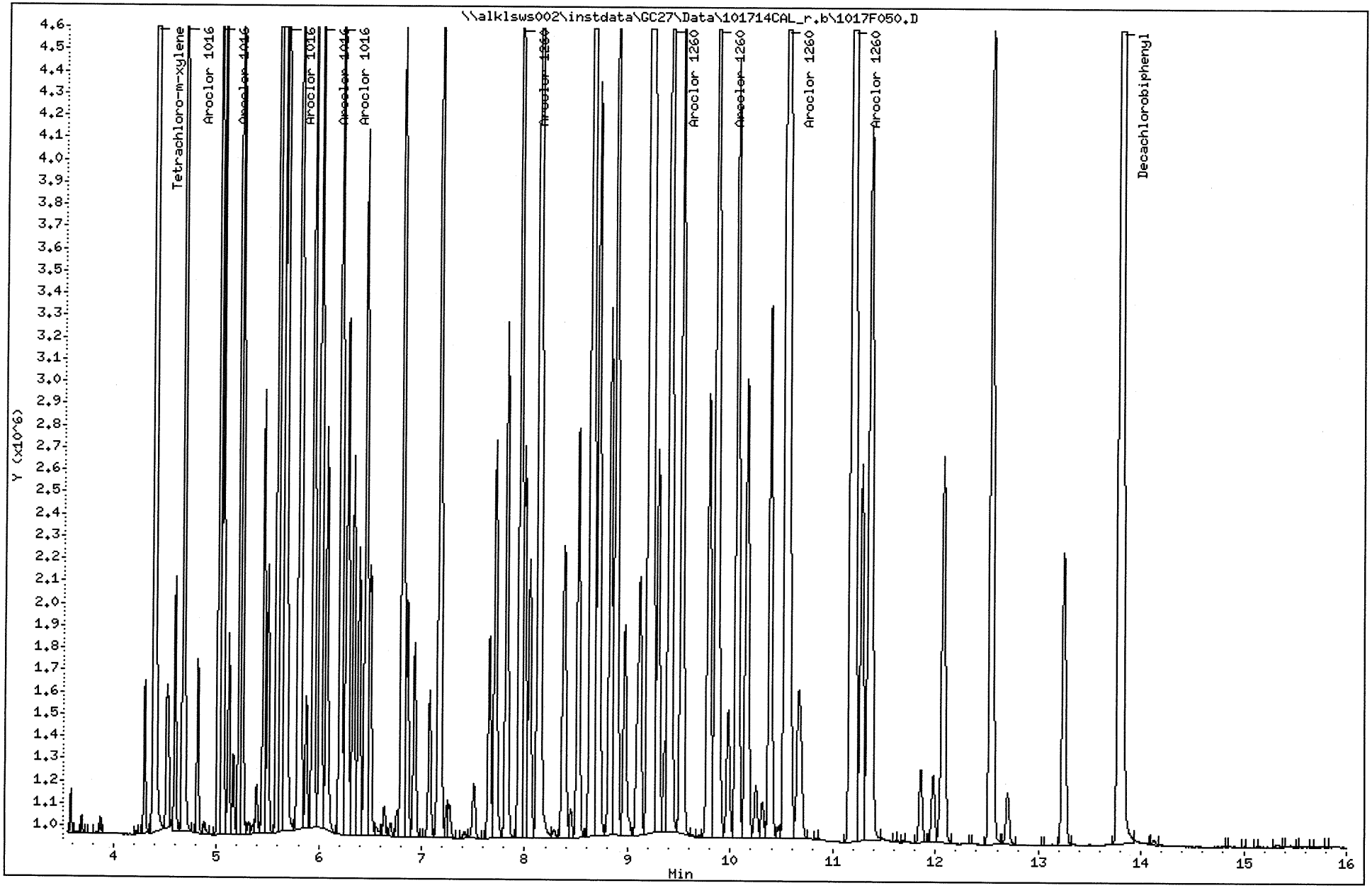
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

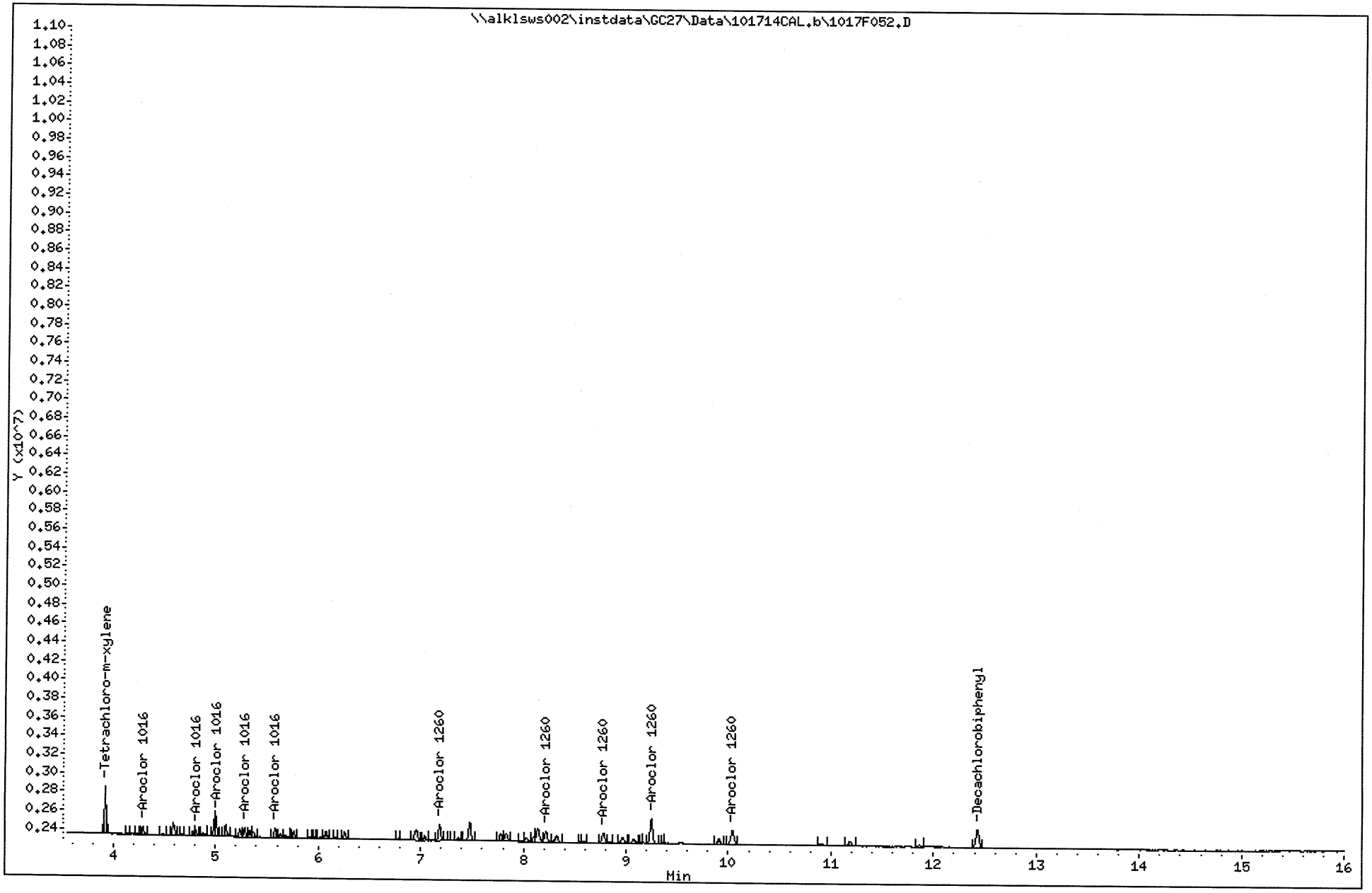
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



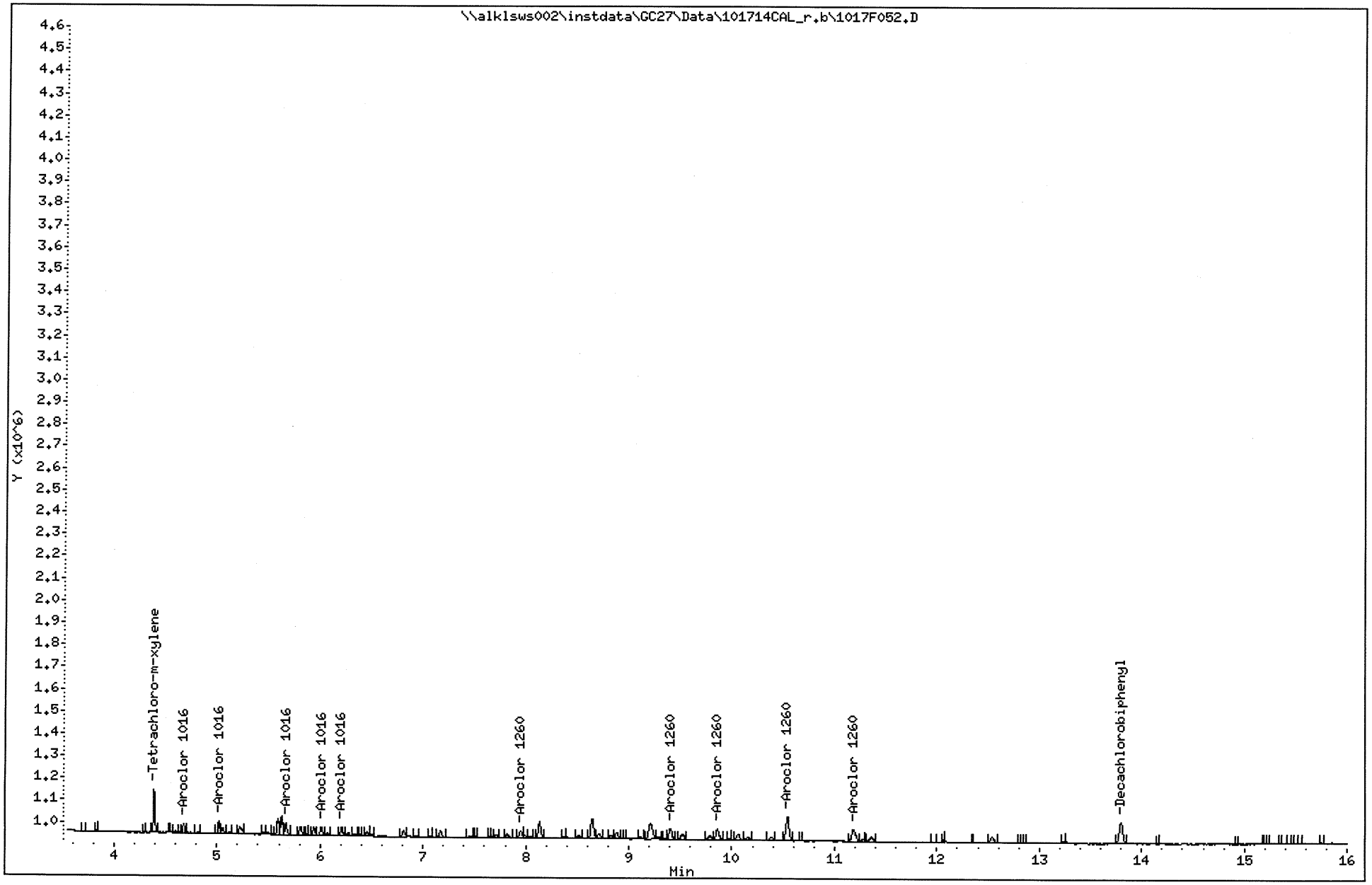
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

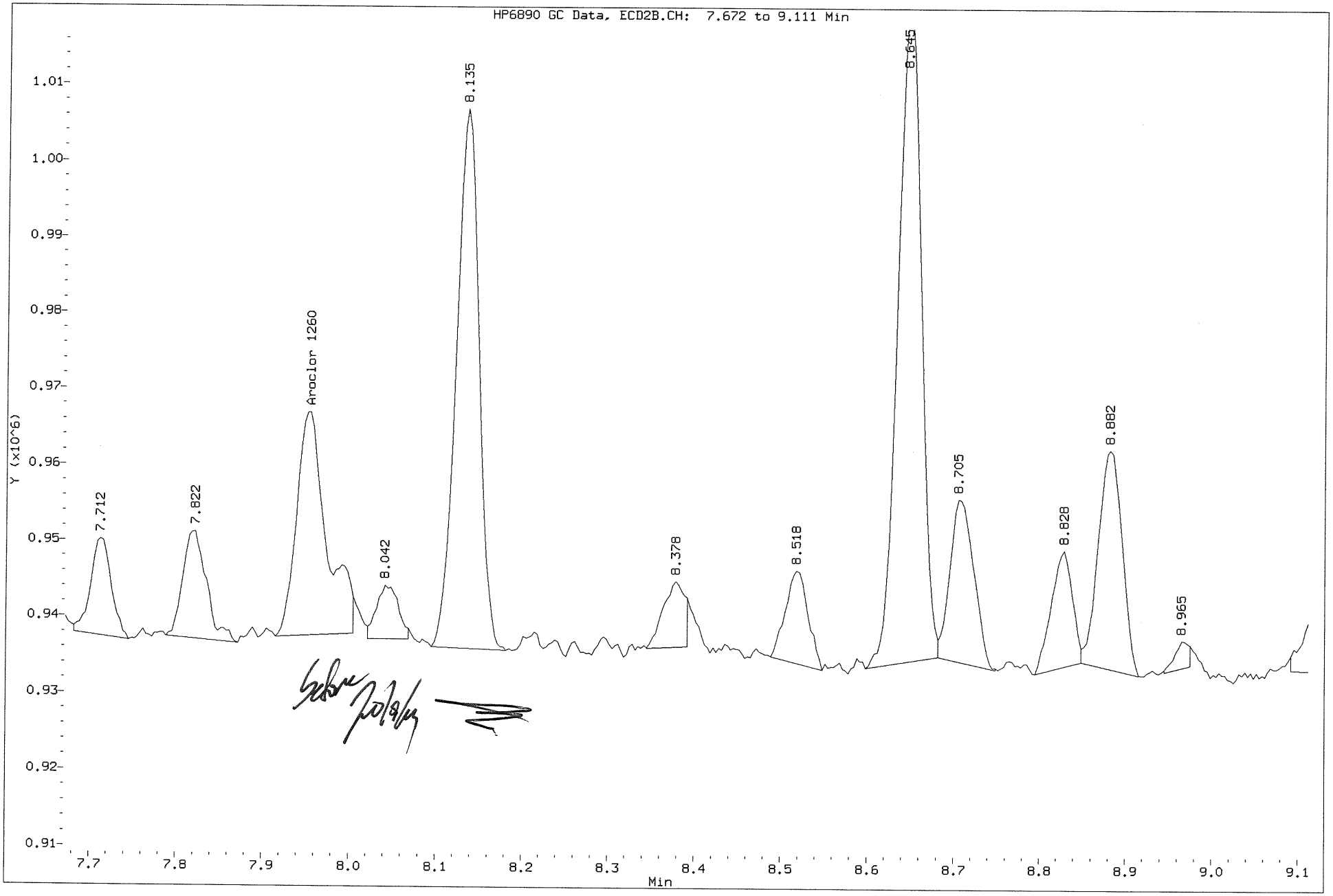
Operator: JHSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



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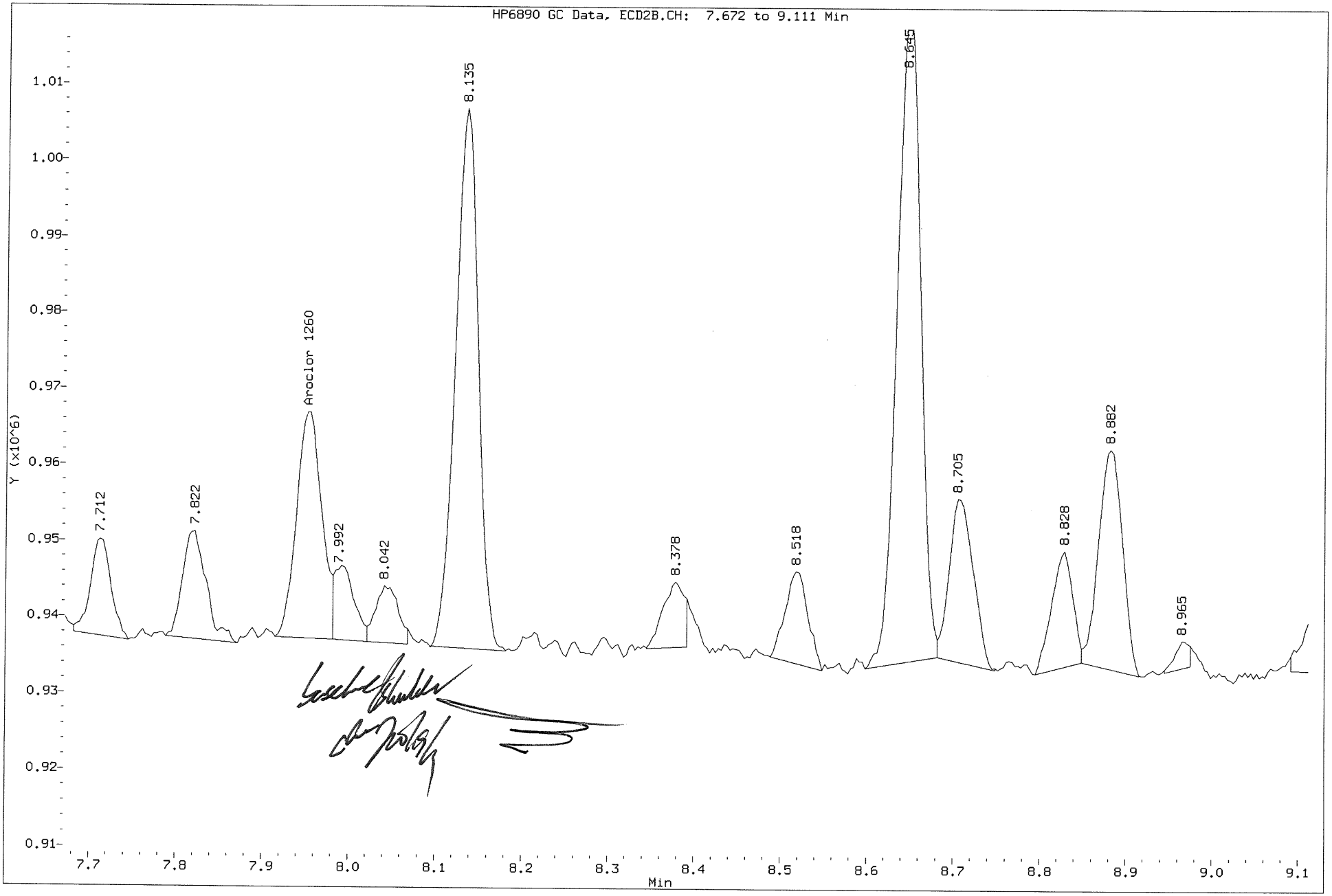
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

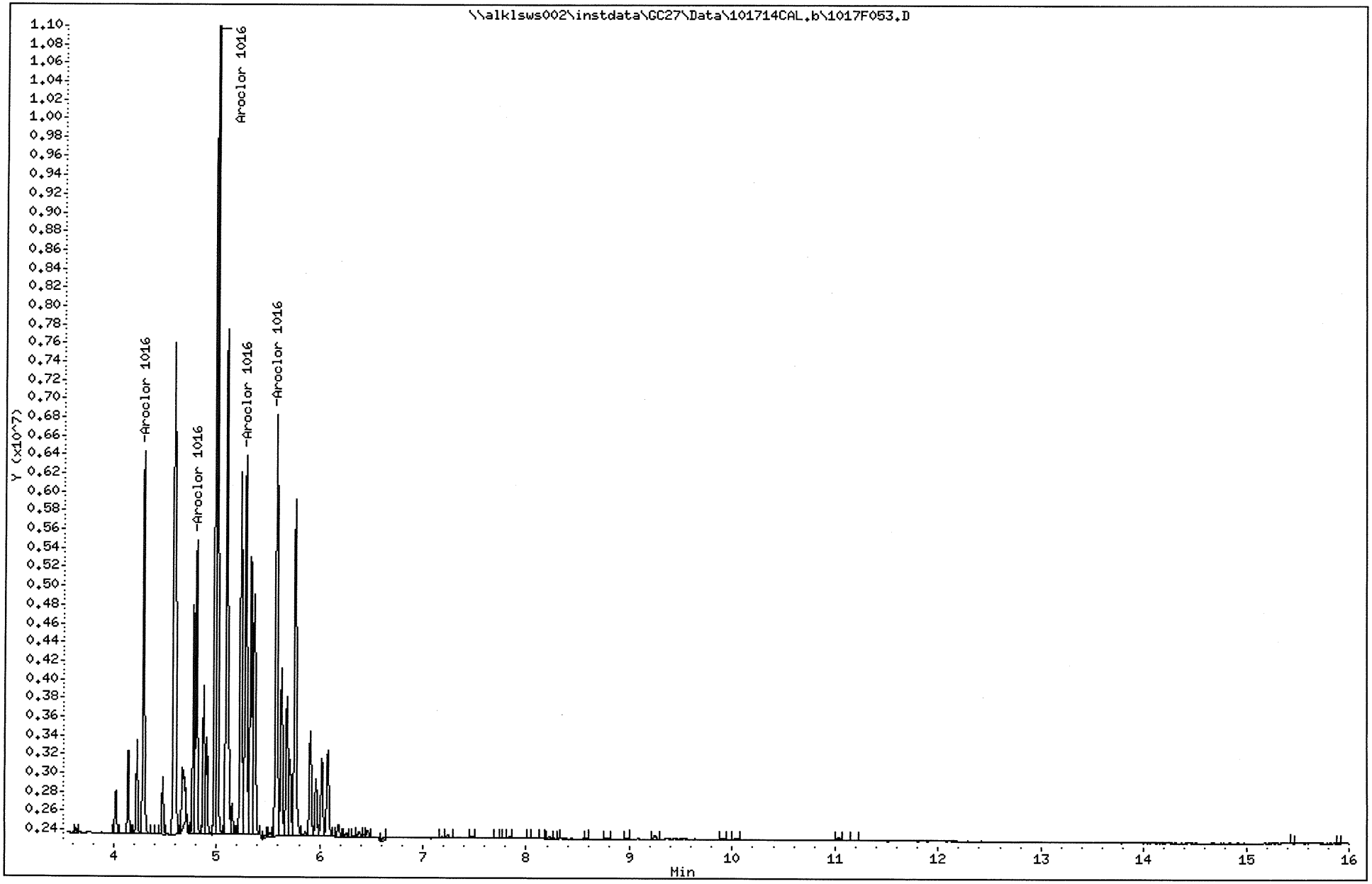
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



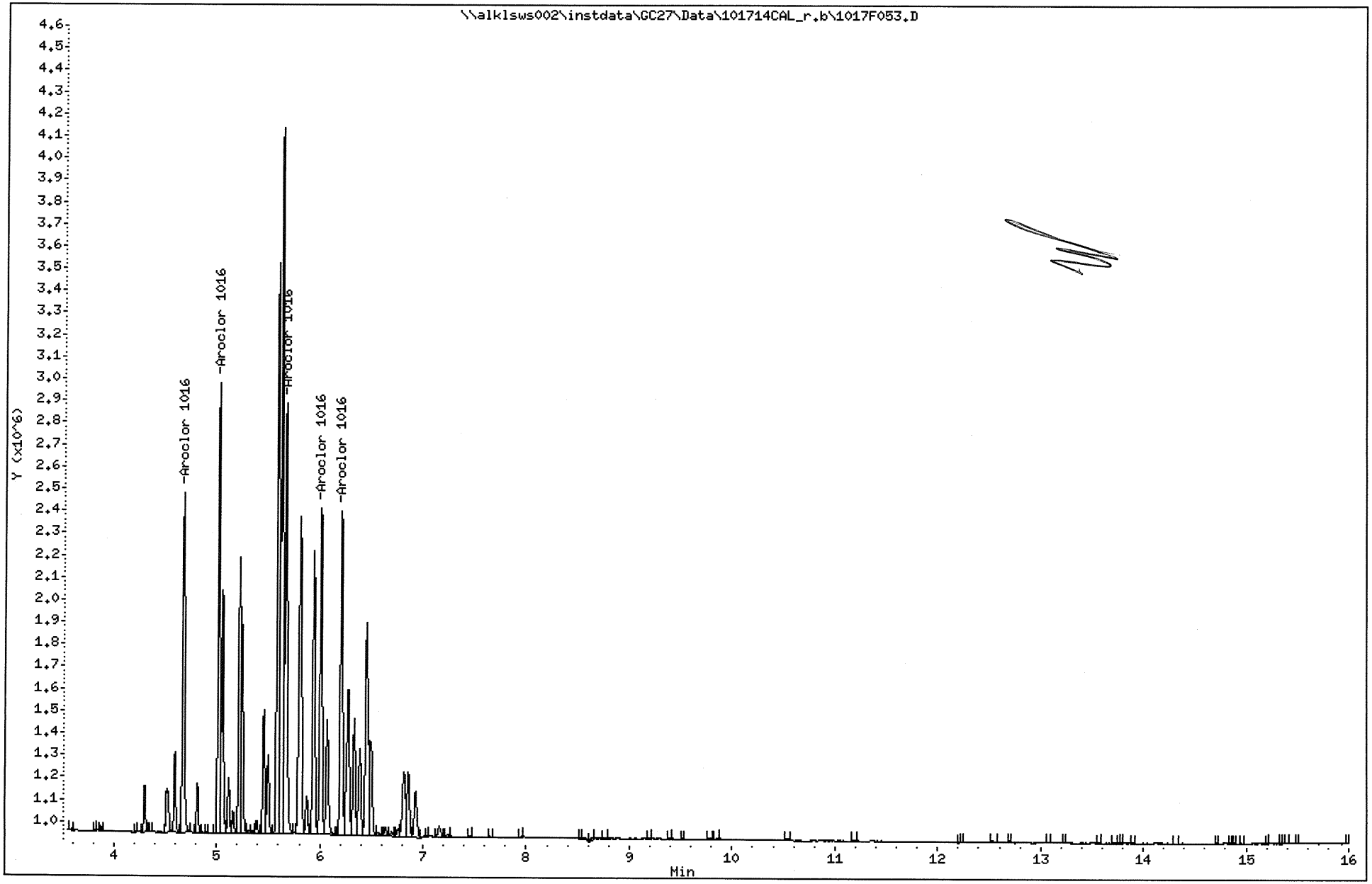
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

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Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

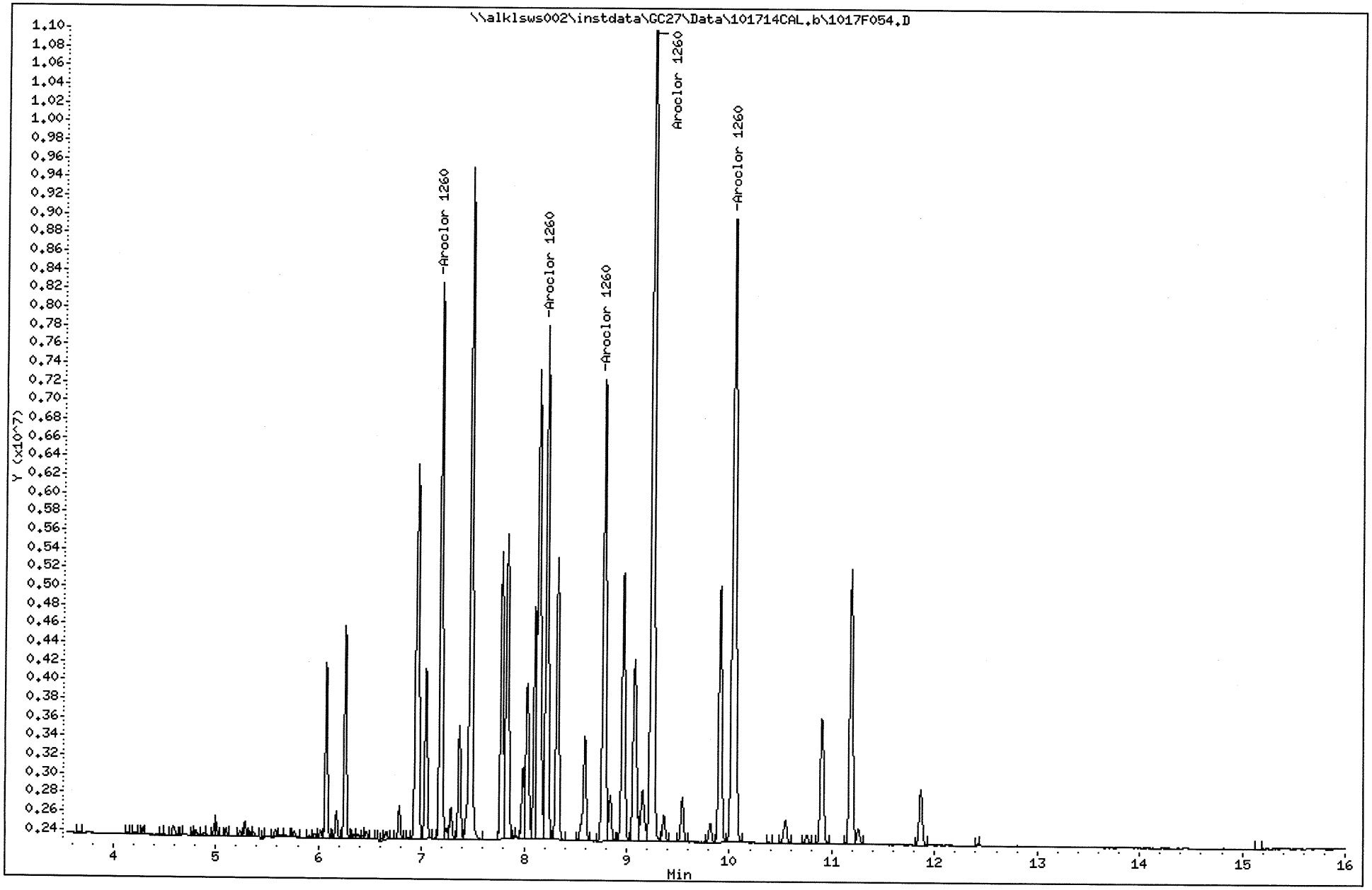
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



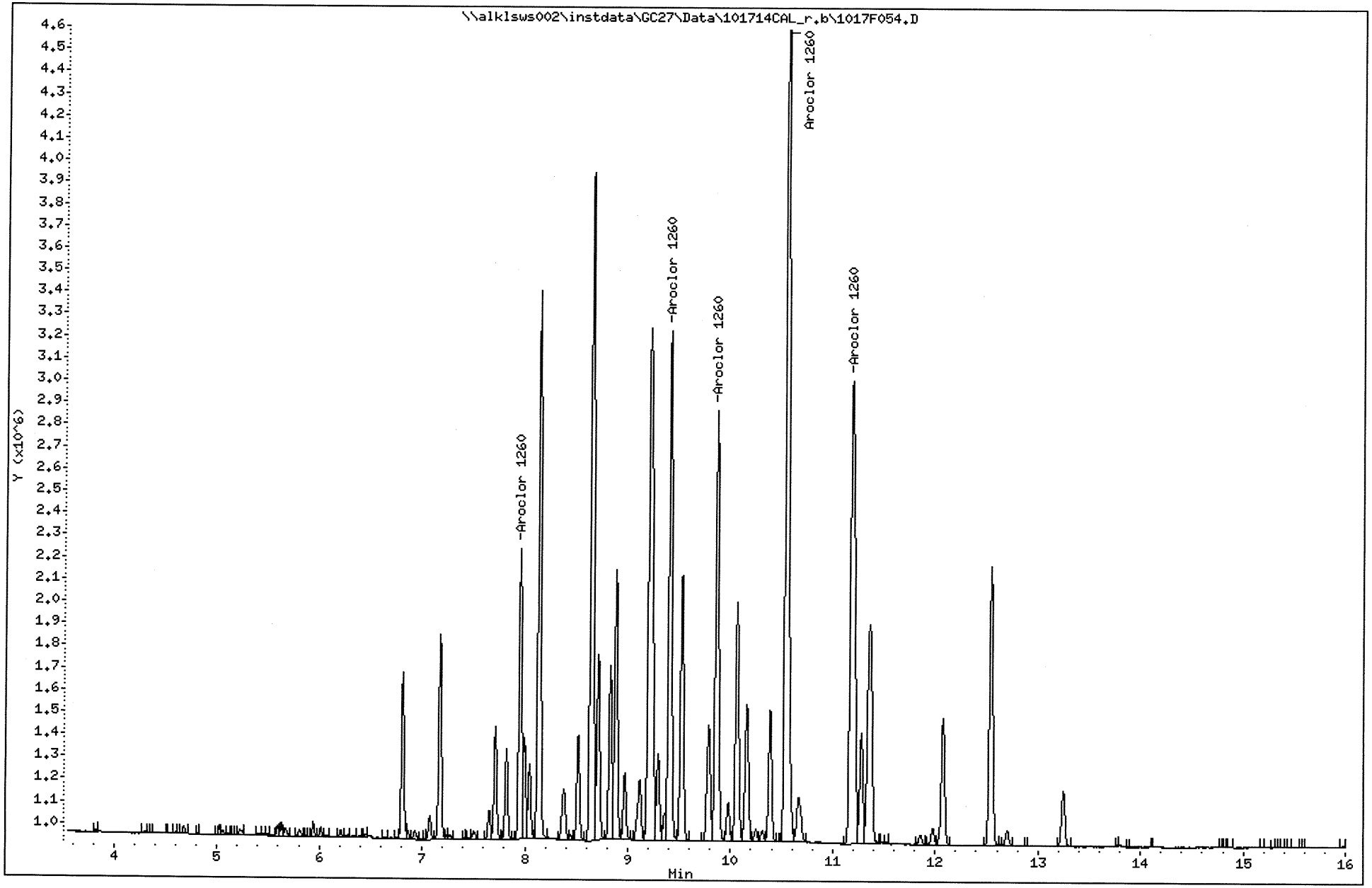
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Preparation Information

Group ID:	KWG1509174	**Prep Method:**	EPA 3541	**Prep Date:**	09/24/15 16:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1510324-001	UBPE-3	8082A PCB LL	SOIL	40.215g	4ml	
K1510448-004	ISBWaste-2-A	8082A PCB LL	SOIL	40.157g	4ml	
K1510448-005	ISBWaste-2-B	8082A PCB LL	SOIL	40.106g	4ml	
K1510448-006	ISBWaste-2-C	8082A PCB LL	SOIL	40.139g	4ml	
K1510507-001	BF-5	8082A PCB LL	SOIL	40.108g	4ml	
KWG1509174-1	Matrix Spike	8082A PCB LL	SOIL	40.145g	4ml	
KWG1509174-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.138g	4ml	
KWG1509174-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1509174-4	Method Blank	8082A PCB LL	SOIL	40.215g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1509174-1	K1510507-001	
KWG1509174-2	K1510507-001	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1510324-001	1469492					MOttosso
K1510448-004	1469494					MOttosso
K1510448-005	1469495					MOttosso
K1510448-006	1469496					MOttosso
K1510507-001	1469493					MOttosso
KWG1509174-1	1469497					MOttosso
KWG1509174-2	1469498					MOttosso
KWG1509174-3	1469499					MOttosso
KWG1509174-4	1469500					MOttosso

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Date: Storage: Goody A1-9

Chain of Custody

Relinquished By: Date: 9-24-15 Extracts Examined

Received By: mr Date: 09/30/15 0758 Yes No

Preparation Information

Group ID:	KWG1509174	**Prep Method:**	EPA 3541	**Prep Date:**	09/24/15 16:30
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1510324-001	UBPE-3	8082A PCB LL	SOIL	40.215g	4ml	
K1510448-004	ISBWaste-2-A	8082A PCB LL	SOIL	40.157g	4ml	
K1510448-005	ISBWaste-2-B	8082A PCB LL	SOIL	40.106g	4ml	
K1510448-006	ISBWaste-2-C	8082A PCB LL	SOIL	40.139g	4ml	
K1510507-001	BF-5	8082A PCB LL	SOIL	40.108g	4ml	
KWG1509174-1	Matrix Spike	8082A PCB LL	SOIL	40.145g	4ml	
KWG1509174-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.138g	4ml	
KWG1509174-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1509174-4	Method Blank	8082A PCB LL	SOIL	40.215g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1509174-1	K1510507-001	
KWG1509174-2	K1510507-001	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1510324-001	1469492					MOttosso
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K1510507-001	1469493					MOttosso
KWG1509174-1	1469497					MOttosso
KWG1509174-2	1469498					MOttosso
KWG1509174-3	1469499					MOttosso
KWG1509174-4	1469500					MOttosso

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Elissa Bruno Date: 9-30-15 Storage:

Chain of Custody

Relinquished By: Date: 9-29-15 Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID: KWG1509174 **Prep Method:** EPA 3541 **Prep Date:** 9/24/15
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. mL	Final Vol. mL	Surr. Added µl	Spike Added µl
1	K1510324-001	UBPE-3	.01	✓	8082A PCB LL	SOIL	40.215	NA	10	4	200	—
2	K1510448-004	ISBWaste-2-A	.01	✓	8082A PCB LL	SOIL	40.157		10	4		—
3	K1510448-005	ISBWaste-2-B	.01	✓	8082A PCB LL	SOIL	40.106		10	4		—
4	K1510448-006	ISBWaste-2-C	.01	✓	8082A PCB LL	SOIL	40.039		10	4		—
5	K1510507-001	BF-5 R	.02	✓	8082A PCB LL	SOIL	40.108		10	4		—
6	KWG1509174-1	Matrix Spike R K1510507-001	.02	✓	8082A PCB LL	SOIL	40.145		10	4		100
7	KWG1509174-2	Duplicate Matrix Spike R K1510507-001	.02	✓	8082A PCB LL	SOIL	40.138		10	4		
8	KWG1509174-3	Lab Control Sample	—	—	8082A PCB LL	SOIL	20.000		10	4		
9	KWG1509174-4	Method Blank	—	—	8082A PCB LL	SOIL	40.215		10	4		—

Comments: R - rocks prepprn# 245619

Surrogate ID: PCB 6-76J, 2 ppm, XP 3/17/16, 200 µl, EPP 10D
Spike ID: PCB 6-76H, 40 µg/mL, XP 3/10/16, 100 µl, EPP 2B
Witness: MOHosson 9/24/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Printed: 09/24/2015 11:15:03 Preparation Information Page 1 of 1
u:\Stealth\Crystal.rpt\prep2.rpt

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1510329, 10507, 10948 **Work Group # Pest:** —
PCB: KWG1509174

Weighed (time/date/initial): 1430 9/24/15 CW Balance ID: *K-Bal-* 3 Calibration Verified ☑

Storage Location (if not extracted same day): —

DCM Lot # DN111 Sulfate Lot # K259001 Matrix Lot # 061614 Glass Wool Lot # 3071900L

Soxtherm Start (time/date/initial): 1630 9/24/15 LL

Soxtherm Stop (time/date/initial): 830 9/25/15 LM

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 9:45 9-28-15 [illegible] N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 10:30 9-28-15 [illegible] Hexane Lot# 108975
S-Evap (time/date/initial): — S-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 10:15 9-28-15 [illegible] N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): 3:30 9-28-15 [illegible] Florisil Lot # VH09F (overnight
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 2:30 9-28-15 Acid Lot # 54344

Other Clean-up: 3660B 9-28-15 [illegible] ☑ all samples ☐ some samples: EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Goofy A1-9

Archived Extract Storage: JTT

Additional Comments:

Bench Sheet Review Check List

- ☑ Hold times met (if no, reason:)
- ☑ Prep date, time, method, department, product code correct in stealth
- ☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
- ☑ Weights/Volumes and units correct on raw and final bench sheets
- ☑ Sample IDs have been checked - bottle numbers appended if required
- ☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
- ☑ Extract storage recorded
- ☑ Additional prep sheet completely filled out (NA or line out blanks)
- ☑ All clean-ups have been noted on additional prep sheet
- ☑ Signed service request with Form V, if applicable, has been attached

ALS Environmental
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October 13, 2015

Analytical Report for Service Request No: K1510240

Craig Heimbucher
Integral Consulting, Inc.
319 SW Washington St.
Suite 1150
Portland, OR 97204

RE: Evraz Riverbank SCM

Dear Craig,

Enclosed are the results of the sample(s) submitted to our laboratory September 16, 2015
For your reference, these analyses have been assigned our service request number **K1510240.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at gregory.salata@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Gregory Salata, Ph.D.
Client Services
Manager

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    Polychlorinated Biphenyls (PCBs)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS ENVIRONMENTAL

Client:	Integral Consulting, Incorporated	**Service Request No.:**	K1510240
Project:	Evraz Riverbank SCM	**Date Received:**	09/16/15
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 09/16/15. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4ºC upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Second Source Exceptions:
The analysis of PCB Aroclors by EPA 8082A requires the use of dual column confirmation. The Initial Calibration Verification (ICV) evaluation criteria were not met on the confirmation column for Aroclor 1260 in CAL13624. The ICV criteria were met on the alternate column. The data quality was not affected. No further corrective action was necessary.

Elevated Detection Limits:
Sample UBPE-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery for sample BF-4 Composite was not applicable. The analysis of this sample required a dilution such that the added spike concentration was diluted below the reporting limit. No further corrective action was required.

No other anomalies associated with the analysis of this sample were observed.

Approved by_____

Chain of Custody

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

K1510240

CHAIN OF CUSTODY FORM

Page 1 of 1

Project: Evrgz Riverbank SCM

Samplers: USUND

Integral Contact: Glenn Esler
Phone 503-943-3617

Ship to: Lab Name ALS
Address 1317 S. 13th Ave
Kelso, WA 98626

Contact Greg Salata
Phone 360-501 3376

integral consulting inc.

Sample No.	Tag #	Date	Time	Matrix	PCB aroclors								Extra Container	Archive	Comments
UBPE-2	2009	9/15/15	1030	SL	X										

9/15/15

Analysis Turn Time: Normal Rush **Rush Results Needed By:**

Shipped by: ALS Courier **Shipping Tracking No.**

Condition of Samples Upon Receipt: **Custody Seal Intact?**

Matrix Code: GW - Groundwater; SL - Soil; SW - Surface water; SD - Sediment; Other:

Relinquished by: [signature] (signature) **Date/Time:** 9/16/15 1900 **Received by:** [signature] (signature) **Date/Time:** 9/16/15 1330

Relinquished by: (signature) **Date/Time:** **Received by:** (signature) **Date/Time:**

Special Instructions:
Follow instructions provided in project specific QAPP. Call G. Esler w/ any questions

PC G129

Cooler Receipt and Preservation Form

Client / Project: Evraz / Integral Service Request K15 10240

Received: 9/16/15 Opened: 9/16/15 By: KO Unloaded: 9/16/15 By: KO

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1, Front 1, Back

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-.6	+.4	.5	.7	+.2	358			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ ***of*** ____

Total Solids

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1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Collected:**	09/15/15
Sample Matrix:	Soil	**Date Received:**	09/16/15
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
UBPE-2	K1510240-001	**94.4**	-	-	1	09/18/15 18:57	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project	Evraz Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1510180-001DUP	-	-	94.0	94.4	94.2	<1	20	09/18/15
Batch QC	K1510314-001DUP	-	-	54.2	53.4	53.8	1	20	09/18/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
UBPE-2	K1510240-001	09/15/2015	09/16/2015

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Collected:**	09/15/2015
Sample Matrix:	Soil	**Date Received:**	09/16/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	UBPE-2	**Units:**	ug/Kg
Lab Code:	K1510240-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1221	ND	U	530	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1232	ND	U	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1242	ND	U	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1248	**1300**	D	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1254	ND	Ui	270	270	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1260	**410**	D	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1262	ND	U	270	110	50	09/18/15	09/23/15	KWG1508974	
Aroclor 1268	ND	U	270	110	50	09/18/15	09/23/15	KWG1508974	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	139	43-148	09/23/15	Acceptable

Comments:

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1508974-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1221	ND	U	10	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1232	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1242	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1248	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1254	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1260	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1262	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	
Aroclor 1268	ND	U	5.0	2.1	1	09/18/15	09/23/15	KWG1508974	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	80	43-148	09/23/15	Acceptable

Comments:

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** Percent
Analysis Method: 8082A **Level:** Low

Sample Name	Lab Code	Sur1
Batch QC	K1509213-003	1636 D #
UBPE-2	K1510240-001	139 D #
Method Blank	KWG1508974-4	80
Batch QCMS	KWG1508974-1	1620 D #
Batch QCDMS	KWG1508974-2	1390 D #
Lab Control Sample	KWG1508974-3	86

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 43-148

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1509213-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

		Batch QCMS KWG1508974-1 Matrix Spike			Batch QCDMS KWG1508974-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	551	113	488 *	541	113	480 *	23-145	2	40
Aroclor 1260	ND	826	113	733 #	860	113	764 #	24-148	4	40

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1508974

	Lab Control Sample KWG1508974-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Aroclor 1016	148	200	74	42-122
Aroclor 1260	174	200	87	50-124

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015
		Time Analyzed:	10:44

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Instrument ID:**	GC27.i
Lab Code:	KWG1508974-4	**File ID:**	J:\GC27\DATA\092315.B\0923F006.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1508974-3	J:\GC27\DATA\092315.B\0923F005.D	09/23/15	10:21
Batch QC	K1509213-003	J:\GC27\DATA\092315.B\0923F007.D	09/23/15	11:08
Batch QCMS	KWG1508974-1	J:\GC27\DATA\092315.B\0923F008.D	09/23/15	11:32
Batch QCDMS	KWG1508974-2	J:\GC27\DATA\092315.B\0923F009.D	09/23/15	11:55
UBPE-2	K1510240-001	J:\GC27\DATA\092315.B\0923F010.D	09/23/15	12:19

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Extracted:**	09/18/2015
Sample Matrix:	Soil	**Date Analyzed:**	09/23/2015
		Time Analyzed:	10:21

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Instrument ID:**	GC27.i
Lab Code:	KWG1508974-3	**File ID:**	J:\GC27\DATA\092315.B\0923F005.D
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082A	**Extraction Lot:**	KWG1508974

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1508974-4	J:\GC27\DATA\092315.B\0923F006.D	09/23/15	10:44
Batch QC	K1509213-003	J:\GC27\DATA\092315.B\0923F007.D	09/23/15	11:08
Batch QCMS	KWG1508974-1	J:\GC27\DATA\092315.B\0923F008.D	09/23/15	11:32
Batch QCDMS	KWG1508974-2	J:\GC27\DATA\092315.B\0923F009.D	09/23/15	11:55
UBPE-2	K1510240-001	J:\GC27\DATA\092315.B\0923F010.D	09/23/15	12:19

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Service Request: K1510240
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-35MS

Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
B	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
C	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
D	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
E	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
F	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
G	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
H	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
I	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
J	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
K	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
L	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
M	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
N	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
O	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
P	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Q	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
R	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
S	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
T	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
U	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
V	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
W	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
X	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Y	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Z	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
AA	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
AB	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
AC	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
AD	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	1.74E+5
	Z	50	1.80E+5	AA	100	1.55E+5	AB	200	1.37E+5	AC	500	1.37E+5	AD	2.5	1.65E+5
Aroclor 1016 {1}													Y	50	4000
	Z	500	4060	AA	1000	3530	AB	2000	3160	AC	5000	2890	AD	25	3890
Aroclor 1016 {2}													Y	50	3180
	Z	500	3510	AA	1000	3090	AB	2000	2640	AC	5000	2480	AD	25	3080
Aroclor 1016 {3}													Y	50	11100
	Z	500	11000	AA	1000	9830	AB	2000	8070	AC	5000	9210	AD	25	10100
Aroclor 1016 {4}													Y	50	5730
	Z	500	5650	AA	1000	4880	AB	2000	4330	AC	5000	4070	AD	25	5110
Aroclor 1016 {5}													Y	50	5740
	Z	500	5900	AA	1000	5120	AB	2000	4550	AC	5000	4370	AD	25	5370
Aroclor 1260 {1}													Y	50	11600
	Z	500	11100	AA	1000	9570	AB	2000	8330	AC	5000	8190	AD	25	10400
Aroclor 1260 {2}													Y	50	8920
	Z	500	9340	AA	1000	8030	AB	2000	6990	AC	5000	6900	AD	25	8500
Aroclor 1260 {3}													Y	50	9200
	Z	500	9530	AA	1000	8190	AB	2000	7130	AC	5000	7020	AD	25	8320
Aroclor 1260 {4}													Y	50	20700
	Z	500	21000	AA	1000	18200	AB	2000	16300	AC	5000	16800	AD	25	19800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	15700
	Z	500	16200	AA	1000	14000	AB	2000	12400	AC	5000	12600	AD	25	14300

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-35MS
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	11.7		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	13.4		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	11.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	12.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	14.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	12.4		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	10.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.0		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1300	3590	4530	26	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1200	3000	3720	24	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	9890	11900	20	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	4960	5570	12	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	5180	6170	19	NA		± 100 %	AverageRF
Aroclor 1016	1000	1200	NA	NA	NA	20	*	± 20 %	NA
Aroclor 1260 {1}	1000	1100	9850	10300	5	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	8110	10300	27	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	8230	10200	24	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	18800	22900	22	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	14200	17200	21	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	20		± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

QA/QC Results

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Service Request: K1510240
Calibration Date: 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624
Instrument ID: GC27.i
Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	Q	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
B	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	R	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
C	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	S	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
D	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	T	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
E	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	U	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
F	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	V	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
G	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	W	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
H	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	X	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
I	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	Y	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
J	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	Z	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
K	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	AA	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
L	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	AB	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
M	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	AC	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
N	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	AD	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
O	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D		
P	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Decachlorobiphenyl													Y	5.0	97700
	Z	50	81000	AA	100	79500	AB	200	74900	AC	500	66600	AD	2.5	94400
Aroclor 1016 {1}													Y	50	2030
	Z	500	1810	AA	1000	1770	AB	2000	1610				AD	25	1960
Aroclor 1016 {2}													Y	50	2670
	Z	500	2380	AA	1000	2310	AB	2000	2120				AD	25	2700
Aroclor 1016 {3}													Y	50	3400
	Z	500	2970	AA	1000	2890	AB	2000	2620				AD	25	3100
Aroclor 1016 {4}													Y	50	2520
	Z	500	2160	AA	1000	2110	AB	2000	1930				AD	25	2260
Aroclor 1016 {5}													Y	50	2500
	Z	500	2130	AA	1000	2080	AB	2000	1930				AD	25	2140
Aroclor 1260 {1}													Y	50	2520
	Z	500	2230	AA	1000	2200	AB	2000	2070	AC	5000	1760	AD	25	2450
Aroclor 1260 {2}													Y	50	4610
	Z	500	3740	AA	1000	3690	AB	2000	3490	AC	5000	3090	AD	25	4050
Aroclor 1260 {3}													Y	50	4460
	Z	500	3540	AA	1000	3470	AB	2000	3290	AC	5000	2920	AD	25	3960
Aroclor 1260 {4}													Y	50	10300
	Z	500	8380	AA	1000	8380	AB	2000	8090	AC	5000	7460	AD	25	9170

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Aroclor 1260 {5}													Y	50	6810
	Z	500	5490	AA	1000	5410	AB	2000	5150	AC	5000	4630	AD	25	6020

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM **Calibration Date:** 10/18/2014

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL13624 **Column:** DB-XLB
Instrument ID: GC27.i

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	14.3		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	10.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.5		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	14.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	11.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	13.5		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Calibration Date: 10/18/2014
Date Analyzed: 10/19/2014

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL13624
Units: ng/mL

File ID: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift		Criteria	Curve Fit
Aroclor 1016 {1}	1000	1100	1840	1970	7	NA		± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	2430	2530	4	NA		± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	3000	3170	6	NA		± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	2200	2290	4	NA		± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	2160	2300	6	NA		± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	5		± 20 %	NA
Aroclor 1260 {1}	1000	1200	2210	2590	17	NA		± 100 %	AverageRF
Aroclor 1260 {2}	1000	1300	3780	4910	30	NA		± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	3610	4410	22	NA		± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	8630	10700	24	NA		± 100 %	AverageRF
Aroclor 1260 {5}	1000	1200	5590	6680	20	NA		± 100 %	AverageRF
Aroclor 1260	1000	1200	NA	NA	NA	23	*	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F003.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	51	158000	162000	3	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	3590	3300	-8	NA	± 100	AverageRF
Aroclor 1016 {2}	500	440	3000	2650	-12	NA	± 100	AverageRF
Aroclor 1016 {3}	500	430	9890	8530	-14	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	4960	4140	-16	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	5180	4370	-16	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	440	9850	8650	-12	NA	± 100	AverageRF
Aroclor 1260 {2}	500	480	8110	7790	-4	NA	± 100	AverageRF
Aroclor 1260 {3}	500	480	8230	7950	-3	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	18800	18400	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	14200	14300	1	NA	± 100	AverageRF
Aroclor 1260	500	480	NA	NA	NA	-4	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F003.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	82500	0	NA	± 20	AverageRF
Aroclor 1016 {1}	500	430	1840	1590	-13	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	2430	2110	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	3000	2470	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	420	2200	1850	-16	NA	± 100	AverageRF
Aroclor 1016 {5}	500	420	2160	1810	-16	NA	± 100	AverageRF
Aroclor 1016	500	420	NA	NA	NA	-15	± 20	NA
Aroclor 1260 {1}	500	460	2210	2050	-7	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3710	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3520	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8500	-2	NA	± 100	AverageRF
Aroclor 1260 {5}	500	500	5590	5580	0	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-3	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F011.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	158000	159000	1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	460	3590	3280	-9	NA	± 100	AverageRF
Aroclor 1016 {2}	500	430	3000	2590	-13	NA	± 100	AverageRF
Aroclor 1016 {3}	500	410	9890	8150	-18	NA	± 100	AverageRF
Aroclor 1016 {4}	500	410	4960	4110	-17	NA	± 100	AverageRF
Aroclor 1016 {5}	500	410	5180	4290	-17	NA	± 100	AverageRF
Aroclor 1016	500	430	NA	NA	NA	-15	± 20	NA
Aroclor 1260 {1}	500	430	9850	8450	-14	NA	± 100	AverageRF
Aroclor 1260 {2}	500	470	8110	7600	-6	NA	± 100	AverageRF
Aroclor 1260 {3}	500	470	8230	7700	-6	NA	± 100	AverageRF
Aroclor 1260 {4}	500	480	18800	17900	-5	NA	± 100	AverageRF
Aroclor 1260 {5}	500	490	14200	14000	-1	NA	± 100	AverageRF
Aroclor 1260	500	470	NA	NA	NA	-7	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM

Service Request: K1510240
Date Analyzed: 09/23/2015

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 10/18/2014
Calibration ID: CAL13624
Analysis Lot: KWG1509187
Units: ng/mL

File ID: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F011.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	50	50	82400	81900	-1	NA	± 20	AverageRF
Aroclor 1016 {1}	500	450	1840	1640	-11	NA	± 100	AverageRF
Aroclor 1016 {2}	500	450	2430	2180	-10	NA	± 100	AverageRF
Aroclor 1016 {3}	500	420	3000	2500	-17	NA	± 100	AverageRF
Aroclor 1016 {4}	500	430	2200	1900	-13	NA	± 100	AverageRF
Aroclor 1016 {5}	500	430	2160	1860	-14	NA	± 100	AverageRF
Aroclor 1016	500	440	NA	NA	NA	-13	± 20	NA
Aroclor 1260 {1}	500	460	2210	2040	-8	NA	± 100	AverageRF
Aroclor 1260 {2}	500	490	3780	3720	-2	NA	± 100	AverageRF
Aroclor 1260 {3}	500	490	3610	3540	-2	NA	± 100	AverageRF
Aroclor 1260 {4}	500	490	8630	8520	-1	NA	± 100	AverageRF
Aroclor 1260 {5}	500	510	5590	5640	1	NA	± 100	AverageRF
Aroclor 1260	500	490	NA	NA	NA	-2	± 20	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509187
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0923F003.D	Continuing Calibration Verification	KWG1509187-1	9/23/2015	09:34		9/23/2015	09:34
0923F004.D	Instrument Blank	KWG1509187-2	9/23/2015	09:57		9/23/2015	09:57
0923F005.D	Lab Control Sample	KWG1508974-3	9/23/2015	10:21		9/23/2015	10:21
0923F006.D	Method Blank	KWG1508974-4	9/23/2015	10:44		9/23/2015	10:44
0923F007.D	Batch QC	K1509213-003	9/23/2015	11:08		9/23/2015	11:08
0923F008.D	Batch QCMS	KWG1508974-1	9/23/2015	11:32		9/23/2015	11:32
0923F009.D	Batch QCDMS	KWG1508974-2	9/23/2015	11:55		9/23/2015	11:55
0923F010.D	UBPE-2	K1510240-001	9/23/2015	12:19		9/23/2015	12:19
0923F011.D	Continuing Calibration Verification	KWG1509187-3	9/23/2015	12:43		9/23/2015	12:43
0923F012.D	Instrument Blank	KWG1509187-4	9/23/2015	13:07		9/23/2015	13:07
0923F013.D	ZZZZZZ	ZZZZZZ	9/23/2015	13:30		9/23/2015	13:30
0923F014.D	ZZZZZZ	ZZZZZZ	9/23/2015	13:54		9/23/2015	13:54
0923F015.D	ZZZZZZ	ZZZZZZ	9/23/2015	14:17		9/23/2015	14:17
0923F016.D	Continuing Calibration Verification	KWG1509187-5	9/23/2015	14:41		9/23/2015	14:41
0923F017.D	Instrument Blank	KWG1509187-6	9/23/2015	15:04		9/23/2015	15:04
0923F018.D	ZZZZZZ	ZZZZZZ	9/23/2015	15:28		9/23/2015	15:28
0923F019.D	ZZZZZZ	ZZZZZZ	9/23/2015	15:52		9/23/2015	15:52
0923F020.D	ZZZZZZ	ZZZZZZ	9/23/2015	16:16		9/23/2015	16:16
0923F021.D	ZZZZZZ	ZZZZZZ	9/23/2015	16:39		9/23/2015	16:39
0923F022.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:03		9/23/2015	17:03
0923F023.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:26		9/23/2015	17:26
0923F024.D	ZZZZZZ	ZZZZZZ	9/23/2015	17:50		9/23/2015	17:50
0923F025.D	ZZZZZZ	ZZZZZZ	9/23/2015	18:13		9/23/2015	18:13
0923F026.D	ZZZZZZ	ZZZZZZ	9/23/2015	18:36		9/23/2015	18:36
0923F027.D	ZZZZZZ	ZZZZZZ	9/23/2015	19:00		9/23/2015	19:00
0923F028.D	Continuing Calibration Verification	KWG1509187-7	9/23/2015	19:24		9/23/2015	19:24
0923F029.D	Instrument Blank	KWG1509187-8	9/23/2015	19:47		9/23/2015	19:47
0923F030.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:11		9/23/2015	20:11
0923F031.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:35		9/23/2015	20:35
0923F032.D	ZZZZZZ	ZZZZZZ	9/23/2015	20:59		9/23/2015	20:59
0923F033.D	ZZZZZZ	ZZZZZZ	9/23/2015	21:22		9/23/2015	21:22
0923F034.D	ZZZZZZ	ZZZZZZ	9/23/2015	21:45		9/23/2015	21:45
0923F035.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:09		9/23/2015	22:09
0923F036.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:32		9/23/2015	22:32

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509187
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0923F037.D	ZZZZZZ	ZZZZZZ	9/23/2015	22:56		9/23/2015	22:56
0923F038.D	ZZZZZZ	ZZZZZZ	9/23/2015	23:20		9/23/2015	23:20
0923F039.D	ZZZZZZ	ZZZZZZ	9/23/2015	23:43		9/23/2015	23:43
0923F040.D	Continuing Calibration Verification	KWG1509187-9	9/24/2015	00:07		9/24/2015	00:07
0923F041.D	Instrument Blank	KWG1509187-10	9/24/2015	00:30		9/24/2015	00:30
0923F042.D	ZZZZZZ	ZZZZZZ	9/24/2015	00:54		9/24/2015	00:54
0923F043.D	ZZZZZZ	ZZZZZZ	9/24/2015	01:17		9/24/2015	01:17
0923F044.D	ZZZZZZ	ZZZZZZ	9/24/2015	01:41		9/24/2015	01:41
0923F045.D	Continuing Calibration Verification	KWG1509187-11	9/24/2015	02:04		9/24/2015	02:04
0923F046.D	Instrument Blank	KWG1509187-12	9/24/2015	02:28		9/24/2015	02:28
0923F047.D	ZZZZZZ	ZZZZZZ	9/24/2015	02:51		9/24/2015	02:51
0923F049.D	ZZZZZZ	ZZZZZZ	9/24/2015	03:15		9/24/2015	03:15
0923F051.D	ZZZZZZ	ZZZZZZ	9/24/2015	03:38		9/24/2015	03:38
0923F053.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:02		9/24/2015	04:02
0923F055.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:26		9/24/2015	04:26
0923F057.D	ZZZZZZ	ZZZZZZ	9/24/2015	04:49		9/24/2015	04:49
0923F059.D	Continuing Calibration Verification	KWG1509187-13	9/24/2015	05:13		9/24/2015	05:13
0923F060.D	Instrument Blank	KWG1509187-14	9/24/2015	05:36		9/24/2015	05:36
0923F061.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:00		9/24/2015	06:00
0923F062.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:24		9/24/2015	06:24
0923F063.D	ZZZZZZ	ZZZZZZ	9/24/2015	06:47		9/24/2015	06:47
0923F064.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:11		9/24/2015	07:11
0923F065.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:35		9/24/2015	07:35
0923F066.D	ZZZZZZ	ZZZZZZ	9/24/2015	07:58		9/24/2015	07:58
0923F067.D	ZZZZZZ	ZZZZZZ	9/24/2015	08:22		9/24/2015	08:22
0923F068.D	ZZZZZZ	ZZZZZZ	9/24/2015	08:45		9/24/2015	08:45
0923F069.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:09		9/24/2015	09:09
0923F070.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:33		9/24/2015	09:33
0923F071.D	ZZZZZZ	ZZZZZZ	9/24/2015	09:57		9/24/2015	09:57
0923F072.D	ZZZZZZ	ZZZZZZ	9/24/2015	10:20		9/24/2015	10:20
0923F073.D	Continuing Calibration Verification	KWG1509187-15	9/24/2015	10:44		9/24/2015	10:44
0923F074.D	Instrument Blank	KWG1509187-16	9/24/2015	11:08		9/24/2015	11:08
0923F075.D	ZZZZZZ	ZZZZZZ	9/24/2015	11:31		9/24/2015	11:31
0923F076.D	Continuing Calibration Verification	KWG1509187-17	9/24/2015	11:55		9/24/2015	11:55

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated **Service Request:** K1510240
Project: Evraz Riverbank SCM

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A **Analysis Lot:** KWG1509187
Instrument ID: GC27.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0923F077.D	Instrument Blank	KWG1509187-18	9/24/2015	12:19		9/24/2015	12:19

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: Integral Consulting, Incorporated
Project: Evraz Riverbank SCM
Sample Matrix: Soil

Service Request: K1510240
Date Extracted: 09/18/2015

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082A

Extraction Lot: KWG1508974
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
UBPE-2	K1510240-001	09/15/15	09/16/15	40.112g	4ml	94.4	
Method Blank	KWG1508974-4	NA	NA	40.245g	4ml	NA	
Batch QC	K1509213-003	NA	NA	40.050g	4ml	88.3	
Batch QCMS	KWG1508974-1	NA	NA	40.164g	4ml	88.3	
Batch QCDMS	KWG1508974-2	NA	NA	40.245g	4ml	88.3	
Lab Control Sample	KWG1508974-3	NA	NA	20.000g	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

Confirmation Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1510240
Project:	Evraz Riverbank SCM	**Date Collected:**	09/15/2015
Sample Matrix:	Soil	**Date Received:**	09/16/2015
		Date Extracted:	09/18/2015

Polychlorinated Biphenyls (PCBs)

Sample Name:	UBPE-2	**Units:**	ug/Kg
Lab Code:	K1510240-001	**Basis:**	Dry
		Level:	Low
Extraction Method:	EPA 3541		
Analysis Method:	8082A		

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	270	110	1300	1600	20.7	D	50	09/23/15
Aroclor 1260	270	110	410	550	29.2	D	50	09/23/15

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1510180, KQ1510518, K1510240, K1510283, K1510314, K1510315**	**Run #:**	**463033**
Test:	**TS**	**Balance ID:**	**K-Balance-16**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1510180-001	1.29	10.99	11.62	10.3	94.0	
	K1510180-001DUP	1.31	11.54	12.20	10.9	94.4	<1
	K1510180-002	1.28	10.06	10.64	9.36	93.0	
	K1510180-003	1.30	10.75	11.32	10.0	93.2	
	K1510180-004	1.32	13.62	14.06	12.7	93.5	
	K1510180-005	1.29	12.42	12.99	11.7	94.2	
	K1510180-006	1.30	12.85	14.05	12.8	99.2	
	K1510240-001	1.30	10.62	11.32	10.0	94.4	
	K1510283-001	1.29	9.45	8.39	7.10	75.1	
	K1510283-002	1.30	8.52	7.42	6.12	71.8	
	K1510283-003	1.28	11.90	10.57	9.29	78.1	
	K1510283-004	1.29	8.12	6.99	5.70	70.2	
	K1510314-001	1.31	12.14	7.89	6.58	54.2	
	K1510314-001DUP	1.31	12.68	8.08	6.77	53.4	1
	K1510314-002	1.30	13.96	6.55	5.25	37.6	
	K1510315-001	1.29	13.91	8.97	7.68	55.2	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	K-OVEN-07	105	105	9/18/2015	18:57	9/21/2015	08:28	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-Balance-16	1.00, 100.00	1.00, 100.00	9/18/2015	18:27	9/18/2015	18:57
Calibration2	K-Balance-16	1.00, 100.00	0.99, 100.00	9/21/2015	09:01	9/21/2015	09:04

Comments: DJM Reviewed 9-21-15 L.J.

Polychlorinated Biphenyls (PCBs)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F010.D
Lab ID: K1510240-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 12:19
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F010.D
Lab ID: K1510240-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 12:19
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:51
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D			**Vial:**	31
Acqu Date:	09/23/2015 12:19	**Quant Date:**	09/28/2015 13:34	**Dilution:**	50.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510240-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	09/15/2015	**Receive Date:**	09/16/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	K1510240
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468013	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Decachlorobiphenyl	12.26 +0.00	13.62 +0.00	438677m	131724m	2.77	1.60			139 #
			%Recovery =		139 #	80 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1016			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1221 {1}			0	0	0.0000	0.0000	110U	110U	
Aroclor 1221			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1221 {2}			0	0	0.0000	0.0000	110U	110U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	110U	110U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1232			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1242			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	110U	110U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F010.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D			**Vial:**	31
Acqu Date:	09/23/2015 12:19	**Quant Date:**	09/28/2015 13:34	**Dilution:**	50.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1510240-001				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1248 {1}	4.94	4.96	1080451m	25143m	230.60	20.18	1200D	110U	
Aroclor 1248			0	0	310.26	249.88	1600D	1300D	**1300D**
Aroclor 1248 {2}	5.29	5.52	1404879m	184649m	322.16	71.60	1700D	380D	RPD
Aroclor 1248 {3}	5.68	5.92	2204700m	1046505m	343.14	351.89	1800D	1900D	
Aroclor 1248 {4}	5.87	6.36	1464323m	859993m	298.22	358.48	1600D	1900D	
Aroclor 1248 {5}	6.29	7.05	1654017m	1908553m	357.17	447.27	1900D	2400D	
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	110Ui	110Ui	
Aroclor 1254			0	0	0.0000	0.0000	270Ui	270Ui	270Ui
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	110Ui	110Ui	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	110Ui	110Ui	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	110Ui	110Ui	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	110Ui	110Ui	
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	981468	166342m	99.64	75.41	530D	400D	
Aroclor 1260			0	0	77.04	103.28	410D	550D	**410D**
Aroclor 1260 {2}	8.09 +0.00	9.27 +0.00	649818	325979m	80.09	86.24	420D	460D	
Aroclor 1260 {3}	8.64 +0.00	9.72 +0.00	379886	182742m	46.15	50.64	240JD	270JD	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.01	1109175	1526318m	59.00	176.77	310D	930D	
Aroclor 1260 {5}	9.90 +0.01	11.02 -0.01	1422912	711137m	100.30	127.32	530D	670D	
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1262			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1268			0	0	0.0000	0.0000	110U	110U	110U
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	110U	110U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	110U	110U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.112 g	**Dilution:**	50.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	94.4 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Report Date: 28-Sep-2015 13:34

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Inj Date : 23-SEP-2015 12:19
Sample Info: K1510240-001 50X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	437390	173105	2.47	2.20		100.00
Aroclor 1248	4.936	4.956	1080451	25143	231	20.2	80.00- 120.00	100.00(MH)
	5.289	5.516	1404879	184649	322	71.6	17.18- 25.77	130.03(MH)
	5.679	5.923	2204700	1046505	343	352	19.47- 29.21	204.05(MH)
	5.873	6.356	1464323	859993	298	358	3.05- 4.58	135.53(MH)
	6.286	7.053	1654017	1908553	357	447	0.69- 1.04	153.09(MH)
		Average of Peak Amounts =			310	250		
Aroclor 1260	7.076	7.829	981468	166342	99.6	75.4	80.00- 120.00	100.00(H)
	8.089	9.269	649818	325979	80.1	86.2	70.24- 105.36	66.21(H)
	8.643	9.716	379886	182742	46.2	50.6	71.65- 107.48	38.71(H)
	9.106	10.399	1109175	1526318	59.0	177	165.26- 247.89	113.01(H)
	9.896	11.019	1422912	711137	100	127	130.88- 196.31	144.98(H)
		Average of Peak Amounts =			77.0	103		
Decachlorobiphenyl	12.259	13.619	438677	131724	2.77	1.60		100.00(M)
Aroclors, Total	0.000	0.000	2470325	1387472	387	353		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

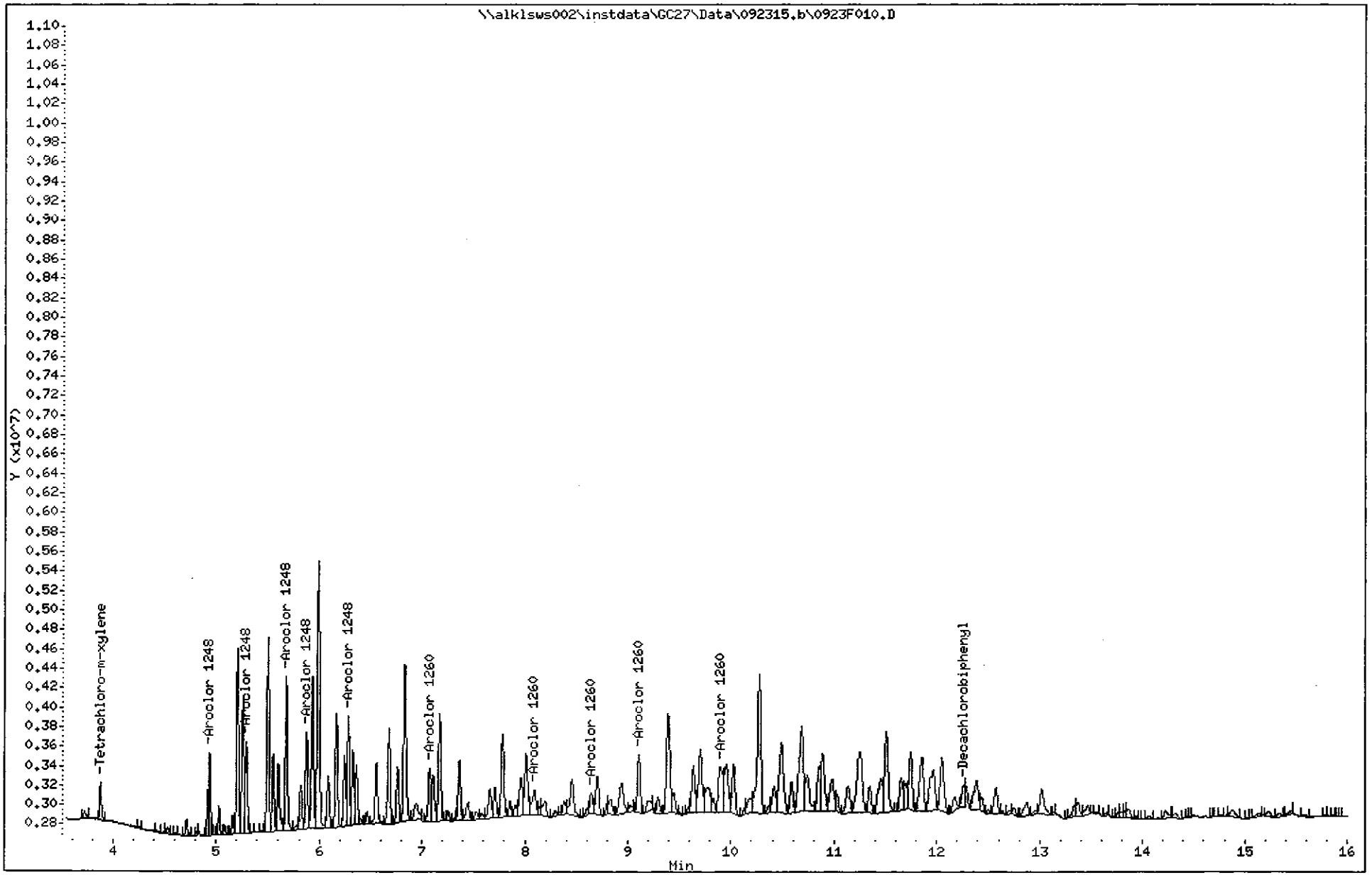
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Date : 23-SEP-2015 12:19
Client ID:
Sample Info: K1510240-001 50X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



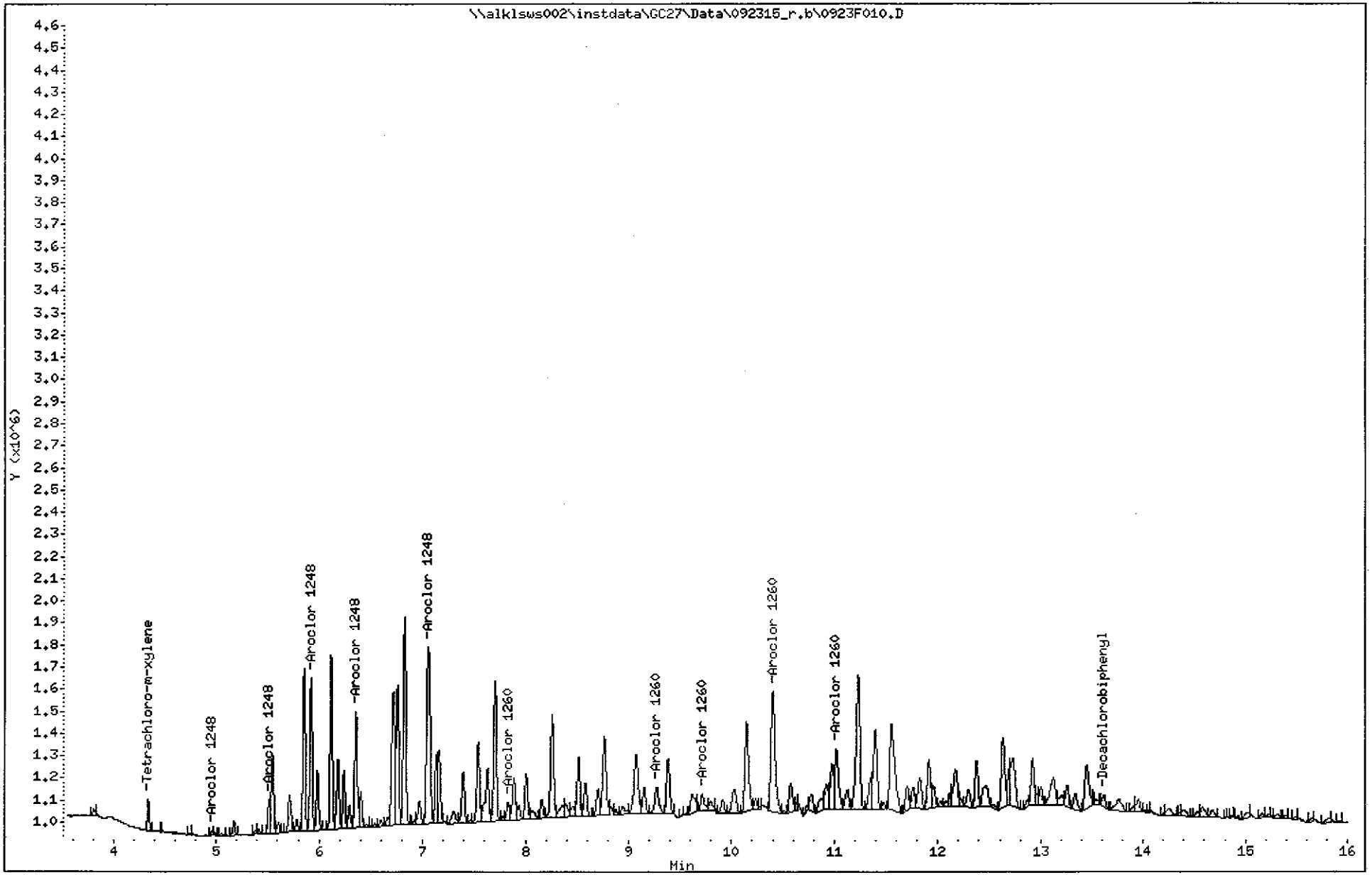
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Date : 23-SEP-2015 12:19
Client ID:
Sample Info: K1510240-001 50X

Instrument: GC27.i

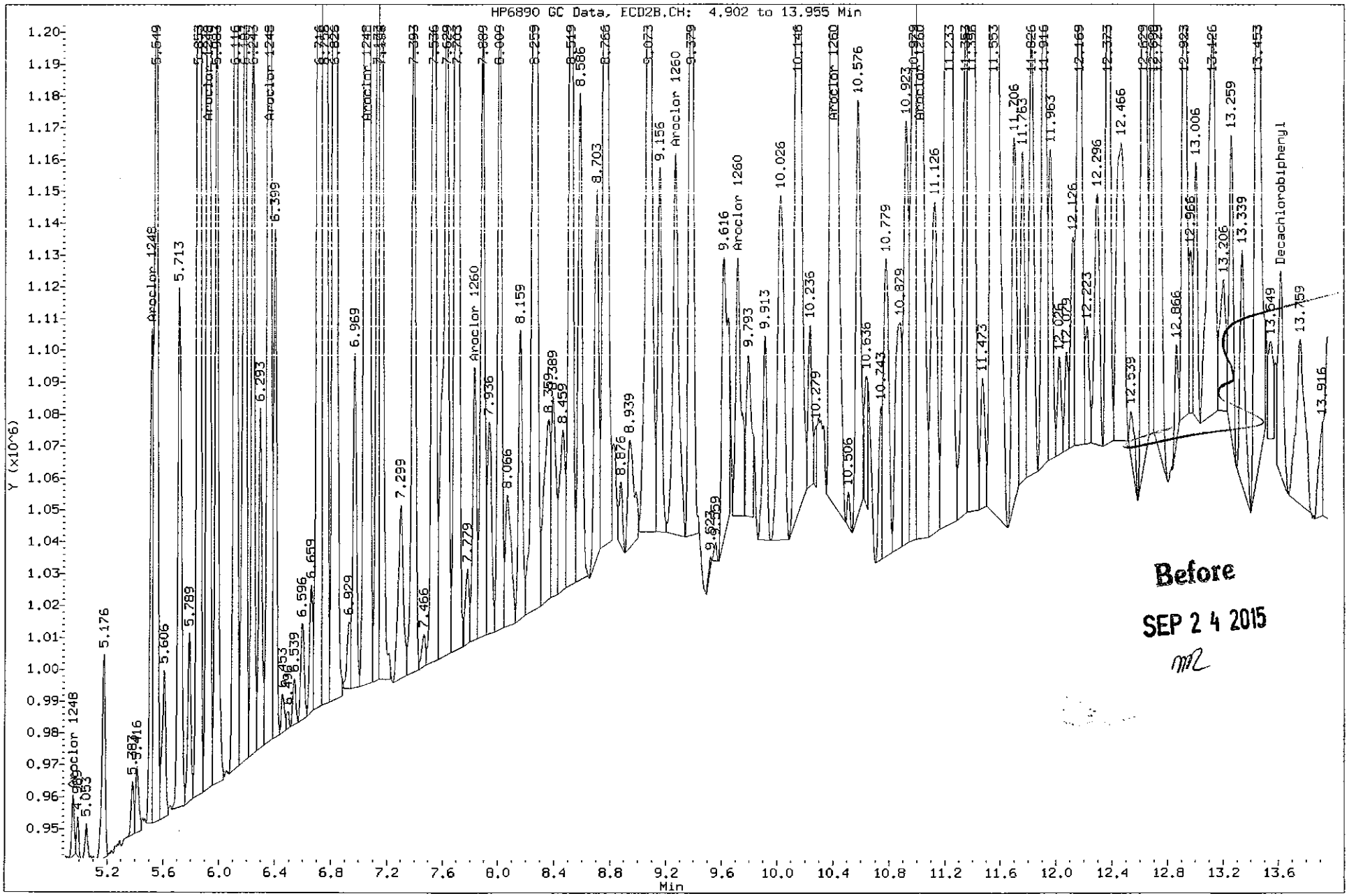
Operator: MR

Column phase: DB-XLB

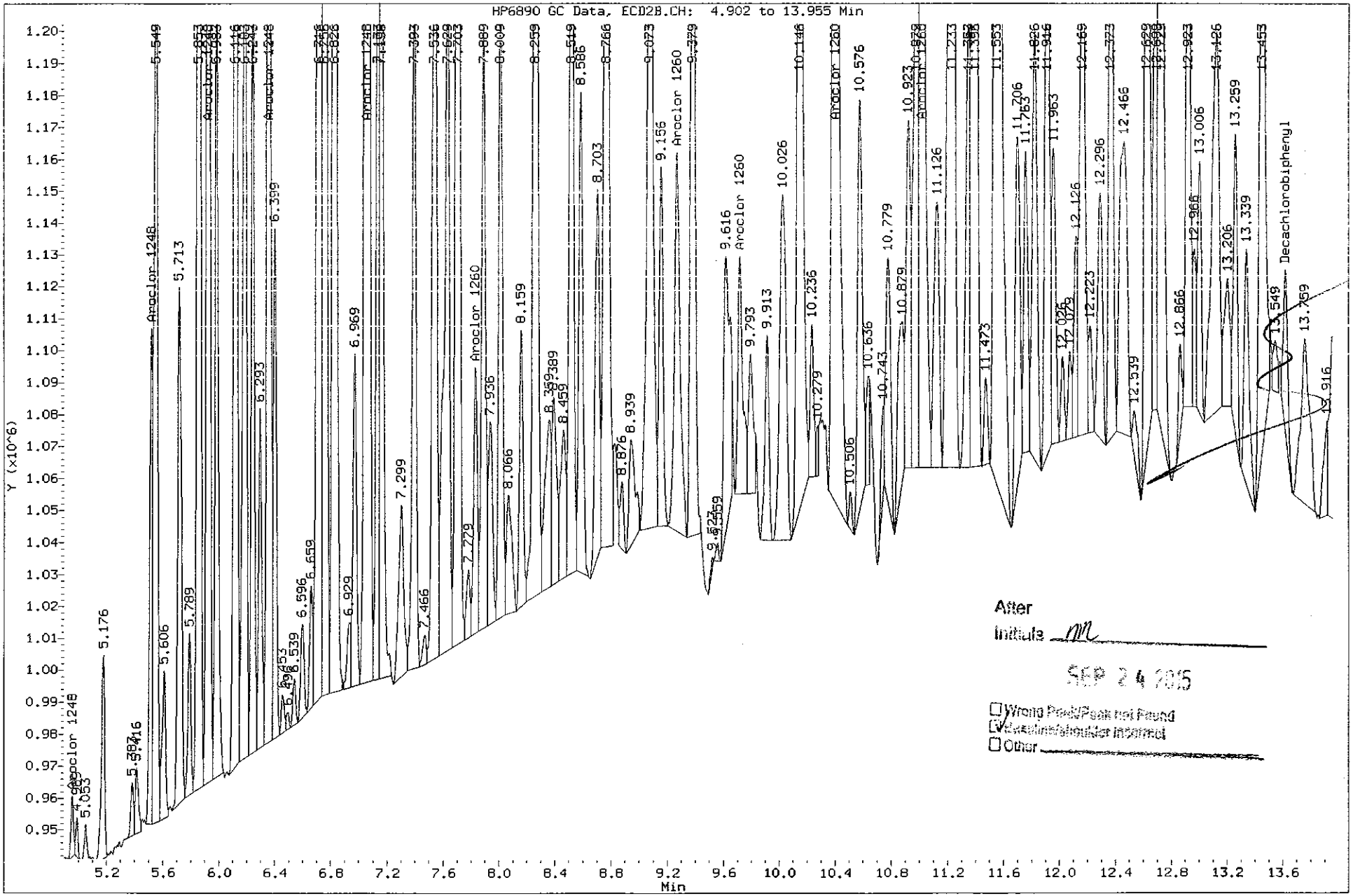
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:

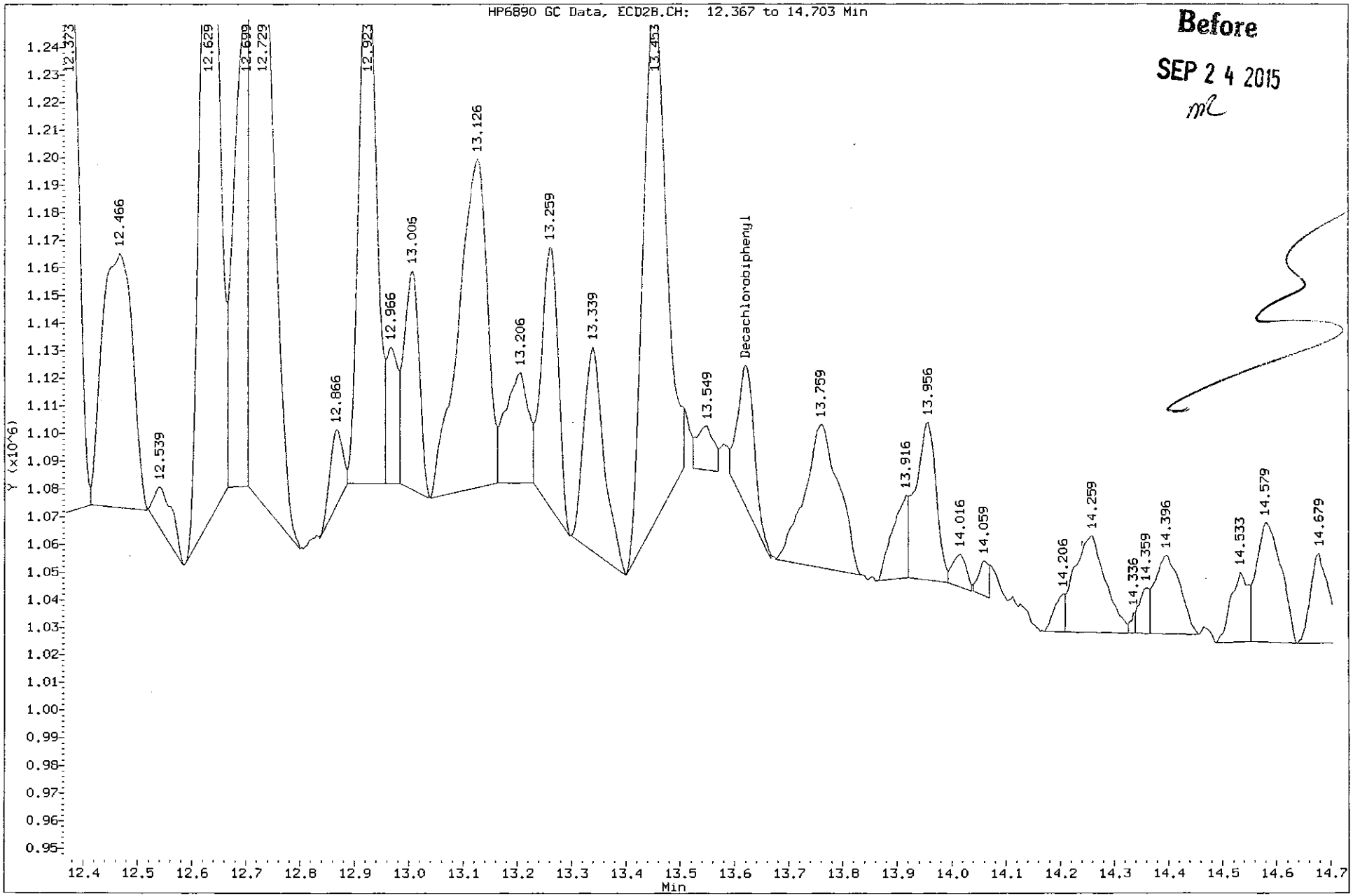


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:

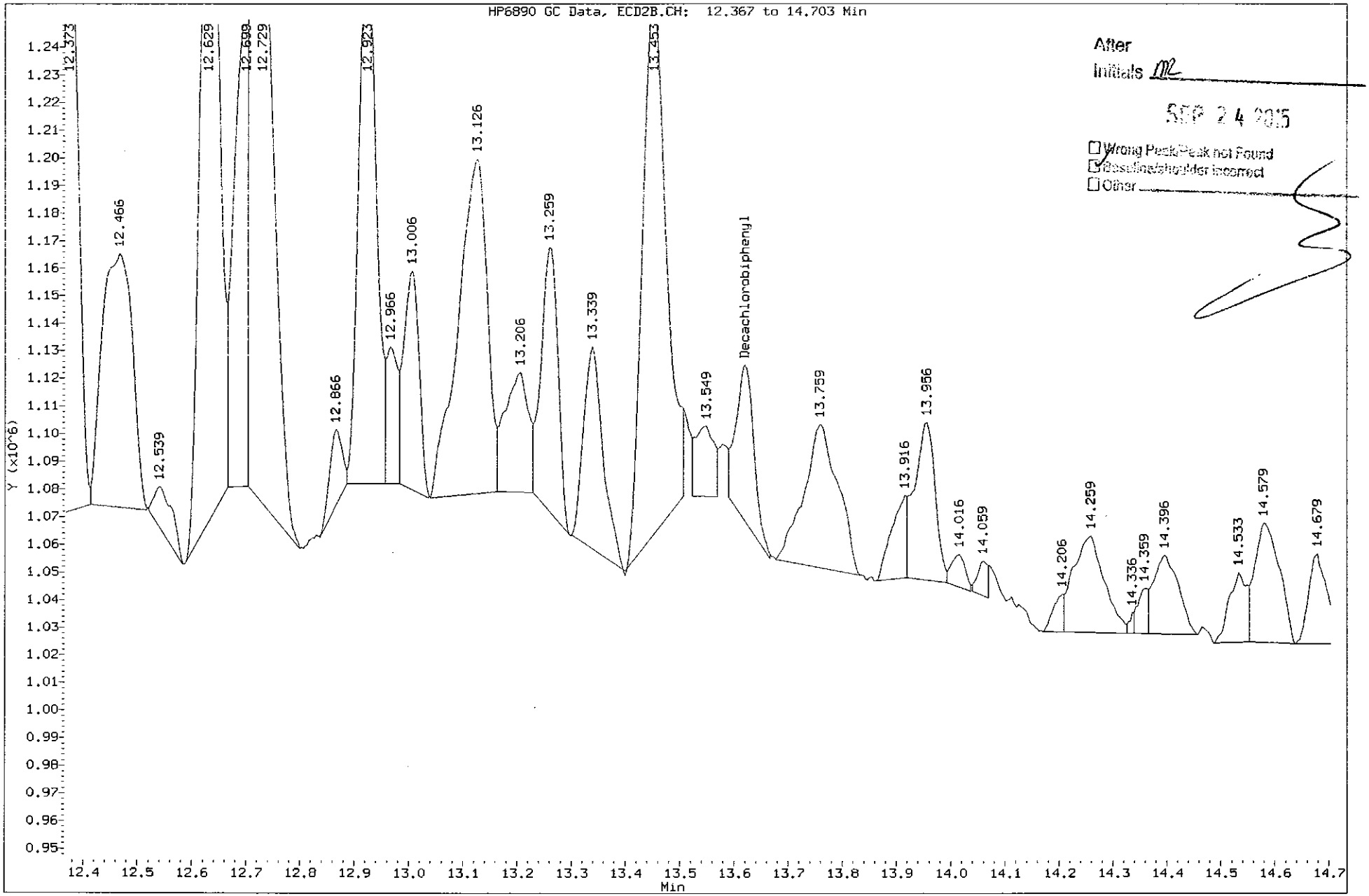


After
Initials MM
SEP 24 2015
☐ Wrong Peak/Peak not Found
☑ Baseline/shoulder incorrect
☐ Other

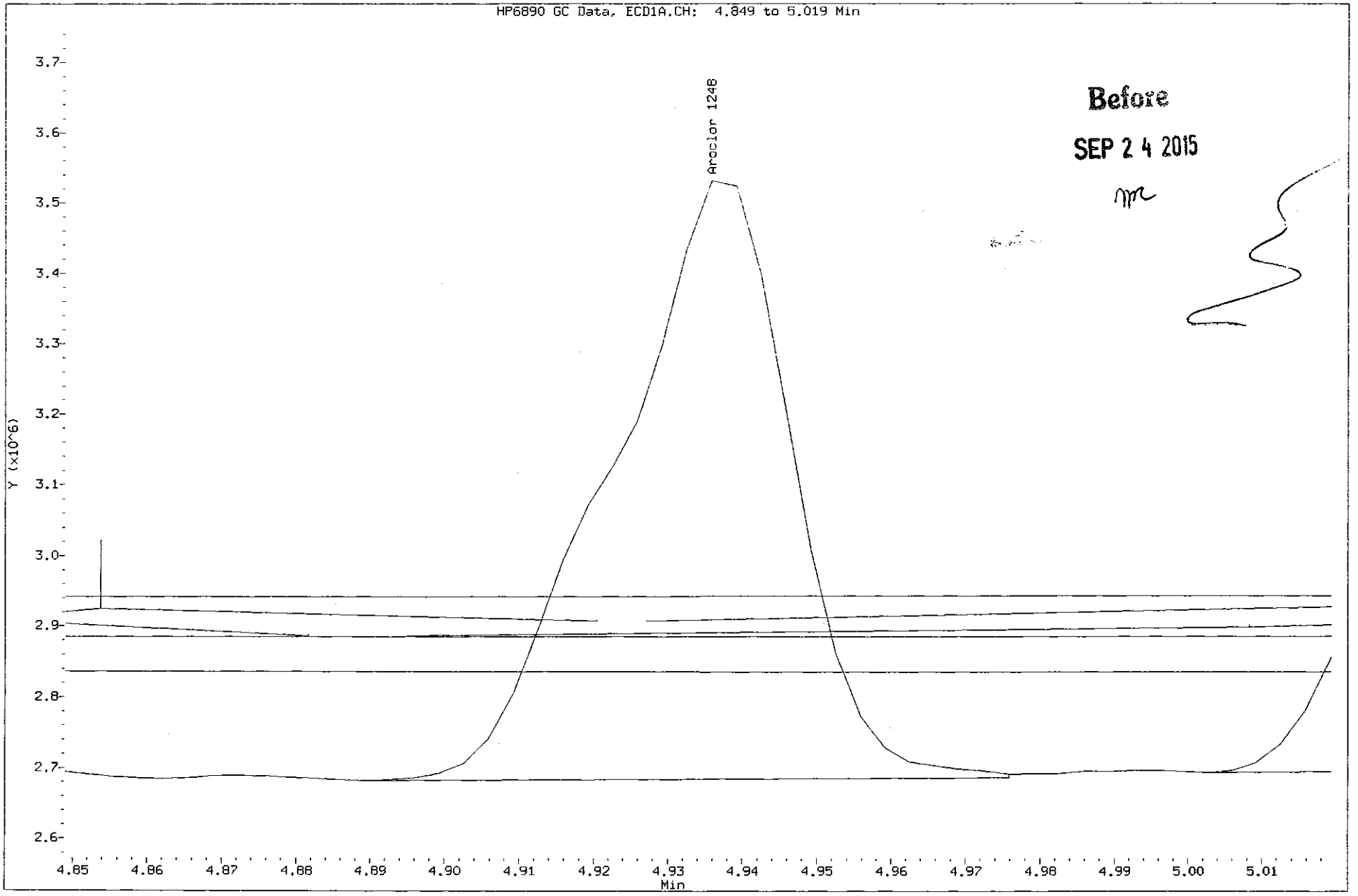
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:



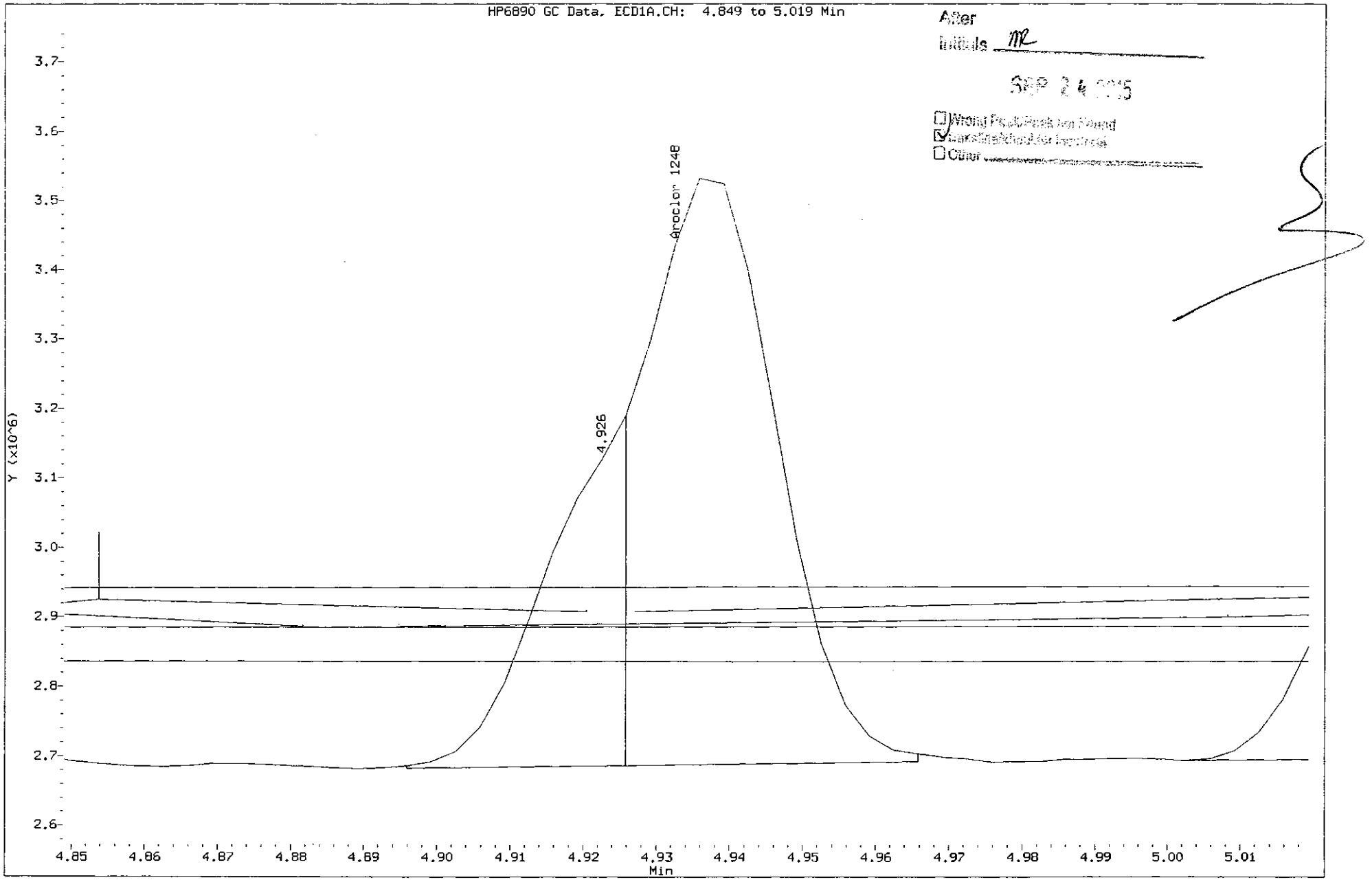
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:



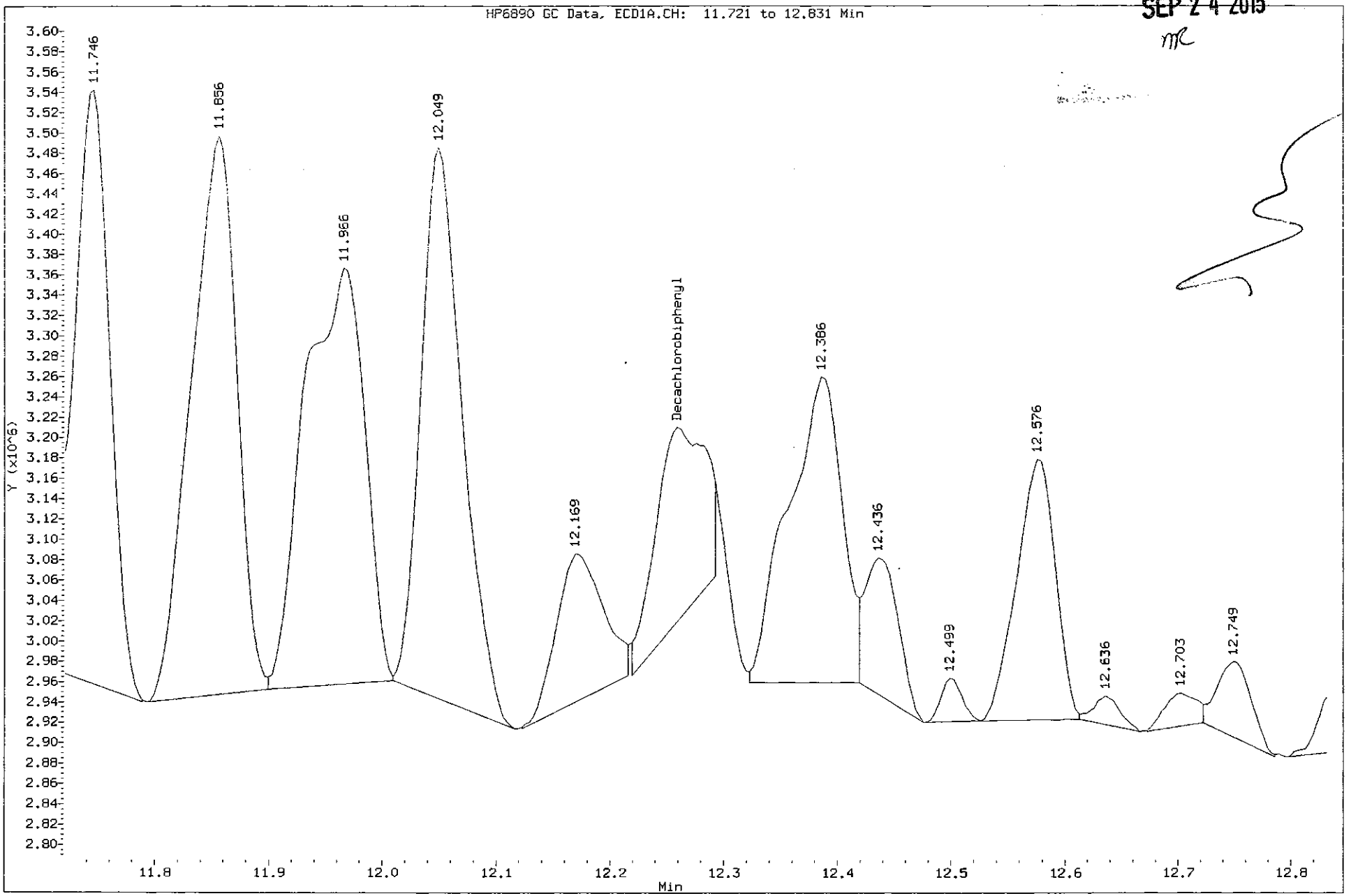
After
Initials MR
SEP 24 2015
☐ Wrong Peak/Peak not Found
☑ Baseline/Integration
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:

Before

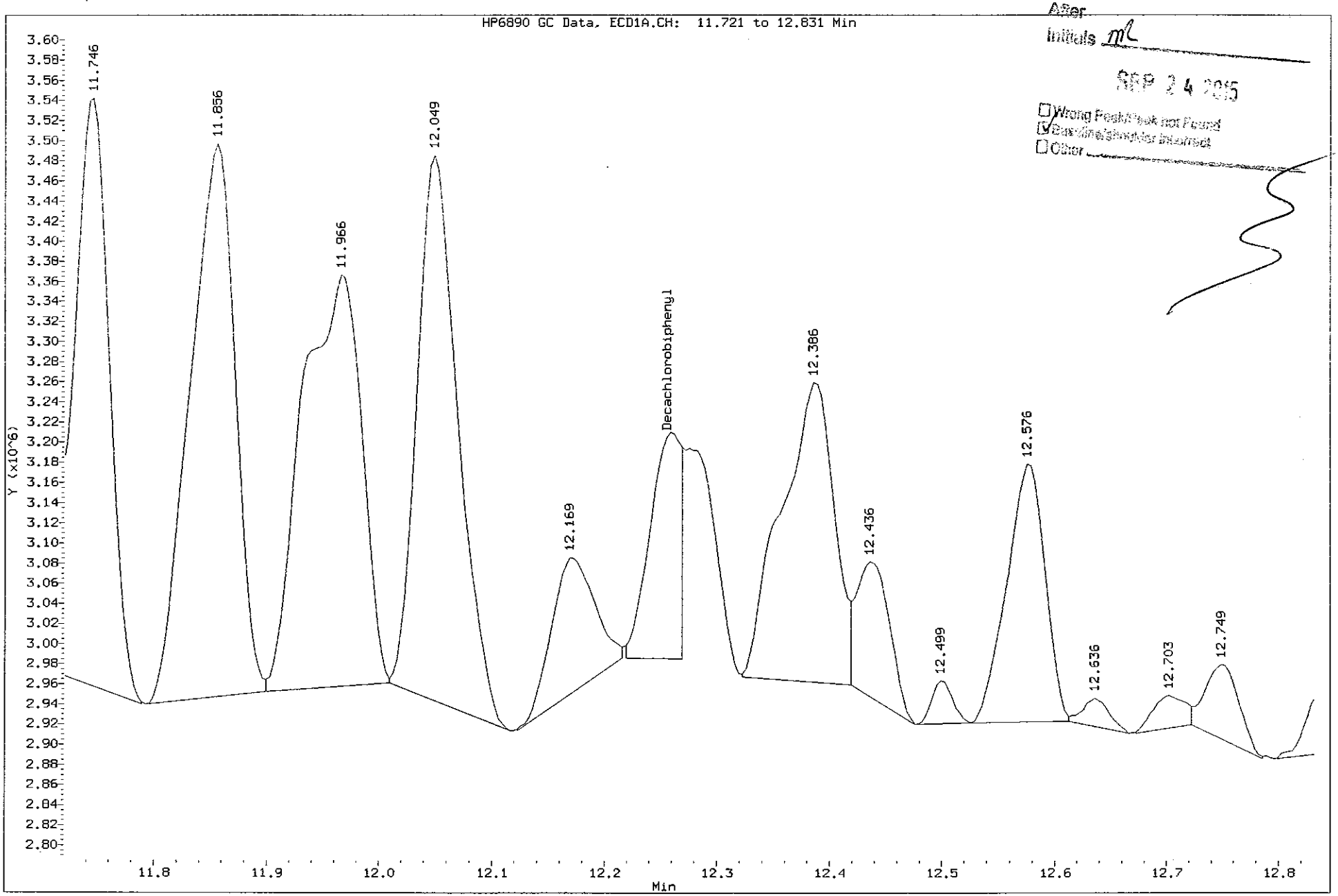
SEP 2 4 2015

mc



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F010.D
Injection Date: 23-SEP-2015 12:19
Instrument: GC27.i
Client Sample ID:

After
Initials mL
SEP 24 2015
☐ Wrong Peak/Peak not Found
☑ Baseline/Integration Incorrect
☐ Other



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F006.D
Lab ID: KWG1508974-4
RunType: MB
Matrix: SOIL

Date Acquired: 09/23/2015 10:44
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/24/15

Secondary Review: [illegible]

Printed: 09/24/2015 14:38:15
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F006.D	**Date Acquired:**	09/23/2015 10:44
Lab ID:	KWG1508974-4	**Date Quantitated:**	09/24/2015 13:26
RunType:	MB	**Batch ID:**	KWG1509187
Matrix:	SOIL	**Analysis Method:**	8082A
		MethodJoinID:	MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D			**Vial:**	27
Acqu Date:	09/23/2015 10:44	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468017	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1		ng/mL #2				Rpt	
Tetrachloro-m-xylene	3.88	0.00	4.34	0.00	13319824	6014107	75.24		76.46				76	OK
						%Recovery =	75	OK	76	OK	Limits =	10-135		
Decachlorobiphenyl	12.26	0.00	13.62	+0.00	12665022	6560651	80.09		79.67				80	OK
						%Recovery =	80	OK	80	OK	Limits =	43-148		

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F006.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D			**Vial:**	27
Acqu Date:	09/23/2015 10:44	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	MB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1260			0	0	0.0000	0.0000	2.10U	2.10U	2.10U
Aroclor 1260 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1260 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.245 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D
Inj Date : 23-SEP-2015 10:44
Sample Info: KWG1508974-4 MB
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.876	4.337	13319824	6014107	75.2	76.5		100.00
Decachlorobiphenyl	12.256	13.620	12665022	6560651	80.1	79.7		100.00

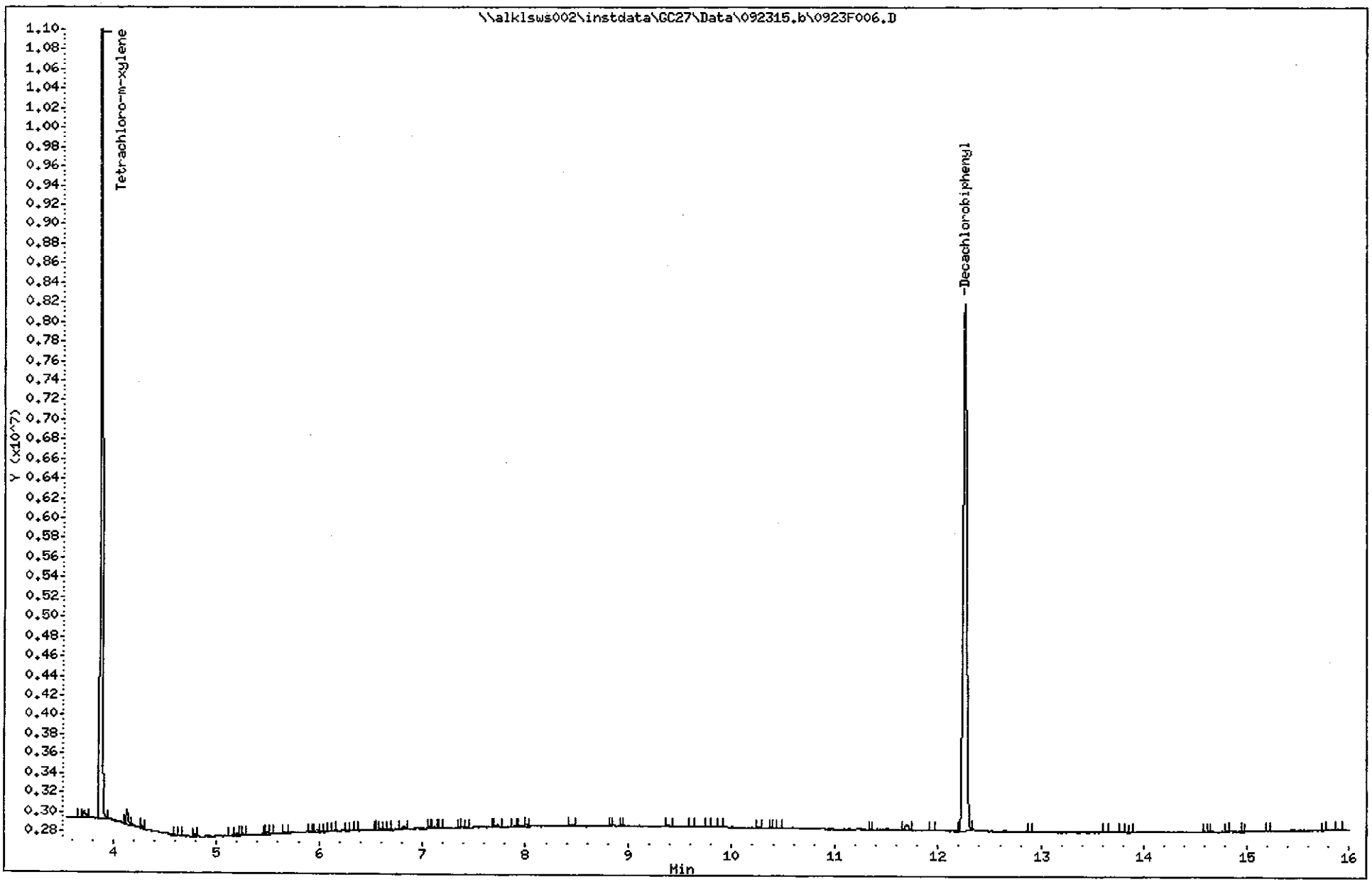
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F006.D
Date : 23-SEP-2015 10:44
Client ID:
Sample Info: KWG1508974-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



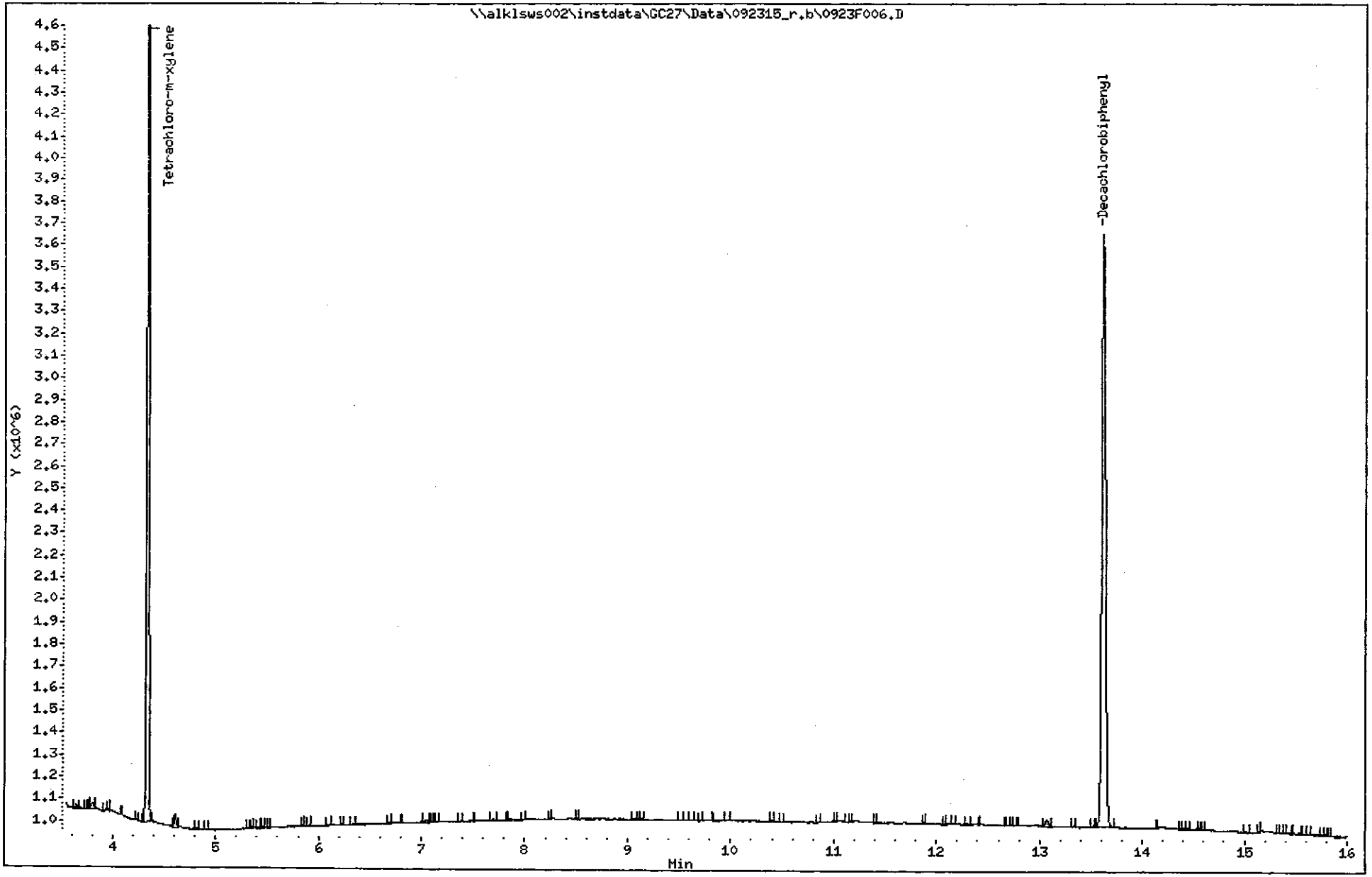
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F006.D
Date : 23-SEP-2015 10:44
Client ID:
Sample Info: KWG1508974-4 MB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F007.D
Lab ID: K1509213-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 11:08
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: MR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F007.D
Lab ID: K1509213-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 09/23/2015 11:08
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
ListJoinID: LJ15169

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV ok

Primary Review: MR 09/24/15

Secondary Review:

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D			**Vial:**	28
Acqu Date:	09/23/2015 11:08	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509213-003				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**	V	**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**	08/20/2015	**Receive Date:**	08/21/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	K1509213
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468237	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:	Polychlorinated Biphenyls (PCBs)	**Report List ID:**	LJ15181
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Report List	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
								Scrint	
Decachlorobiphenyl	12.26 0.00	13.57 -0.05	2587011m	973417m	16.36	11.82			1636 #
			%Recovery =		1636 #	1182 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1016 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F007.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D			**Vial:**	28
Acqu Date:	09/23/2015 11:08	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	SMPL			**Soln Conc. Units:**	ng/mL
Lab ID:	K1509213-003				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {1}	4.94	4.95	2635295m	71482	562.44	57.37	6400D	650D	RPD
Aroclor 1248			0	0	711.34	475.30	8000D	5400D	5400D
Aroclor 1248 {2}	5.29	5.52	2836367m	367413	650.41	142.46	7400D	1600D	RPD
Aroclor 1248 {3}	5.68	5.92	4781305m	2413624	744.16	811.59	8400D	9200D	
Aroclor 1248 {4}	5.87	6.35	3558245m	2134541	724.65	889.77	8200D	10000D	
Aroclor 1248 {5}	6.28	7.05	4052240m	0	875.04	0.0000	9900D	210U	
Aroclor 1254 {1}	6.25	6.71	2656948m	3414937m	682.94	929.31	210Ui	210Ui	
Aroclor 1254			0	0	612.86	748.11	7000Ui	8500Ui	7000Ui int
Aroclor 1254 {2}	6.68	7.05	4448563m	5197888m	612.96	897.24	210Ui	210Ui	
Aroclor 1254 {3}	6.83	7.16	7539932m	1633600m	515.21	843.31	210Ui	210Ui	
Aroclor 1254 {4}	7.17	8.01	5228940m	798332m	546.64	352.38	210Ui	210Ui	
Aroclor 1254 {5}	7.78	8.77	4473639m	2253961m	706.55	718.31	210Ui	210Ui	
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	2333403	175292m	236.88	79.47	210Ui	210Ui	
Aroclor 1260			0	0	129.09	180.18	1500Ui	2100Ui	1500Ui npm
Aroclor 1260 {2}	8.06 -0.03	9.29 +0.03	1159913	529911m	142.96	140.19	210Ui	210Ui	
Aroclor 1260 {3}	8.60 -0.04	9.71	714217	65786m	86.77	18.23	210Ui	210Ui	
Aroclor 1260 {4}	9.11	10.40 +0.01	935241	0m	49.75	0.0000	210Ui	210Ui	
Aroclor 1260 {5}		11.02 -0.01	0	2696863m	0.0000	482.85	210Ui	210Ui	
Aroclor 1262 {1}	8.06	9.29	1159913	902964	85.99	156.08	210Ui	210Ui	
Aroclor 1262			0	0	62.38	423.86	710Ui	4800Ui	710Ui npm
Aroclor 1262 {2}	8.60	9.71	714217	65786	60.63	16.24	210Ui	210Ui	
Aroclor 1262 {3}	9.11	10.40	935241	7343359	40.51	760.77	210Ui	210Ui	
Aroclor 1262 {4}		11.02	0	2978260	0.0000	444.61	210Ui	210Ui	
Aroclor 1262 {5}		12.38	0	2698880	0.0000	741.61	210Ui	210Ui	
Aroclor 1268 {1}	9.79	11.02	3848126	2978260	130.34	230.09	210Ui	210Ui	
Aroclor 1268			0	0	79.70	328.62	910Ui	3800Ui	910Ui npm
Aroclor 1268 {2}		11.23	0	9369349	0.0000	857.77	210Ui	210Ui	
Aroclor 1268 {3}	10.37	11.71	917919	1964018	41.73	205.76	210Ui	210Ui	
Aroclor 1268 {4}	11.70	13.06	4201829	593108	67.04	20.85	210Ui	210Ui	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.050 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Report Date: 25-Sep-2015 09:17

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Inj Date : 23-SEP-2015 11:08
Sample Info: K1509213-003 100X
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.339	226942	87138	1.28	1.11		100.00
Aroclor 1248	4.935	4.952	2635295	71482	562	57.4	80.00- 120.00	100.00(MH)
	5.292	5.515	2836367	367413	650	142	17.18- 25.77	107.63(MH)
	5.675	5.922	4781305	2413624	744	812	19.47- 29.21	181.43(MH)
	5.872	6.352	3558245	2134541	725	890	3.05- 4.58	135.02(MH)
	6.282	7.052	4052240		875		0.69- 1.04	153.77(MH)
		Average of Peak Amounts =			711	475		
Aroclor 1254	6.245	6.712	2656948	3414937	683	929	80.00- 120.00	100.00(MH)
	6.678	7.052	4448563	5197888	613	897	1017.66-1526.49	167.43(MH)
	6.832	7.155	7539932	1633600	515	843	9646.23-14469.35	283.78(MH)
	7.172	8.009	5228940	798332	547	352	1126.72-1690.08	196.80(MH)
	7.778	8.765	4473639	2253961	707	718	281.12- 421.67	168.38(MH)
		Average of Peak Amounts =			613	748		
Aroclor 1260	7.075	7.829	2333403	175292	237	79.5	80.00- 120.00	100.00(TH)
	8.062	9.292	1159913	529911	143	140	70.24- 105.36	49.71(TH)
	8.602	9.712	714217	65786	86.8	18.2	71.65- 107.48	30.61(TH)
	9.105	10.402	935241		49.8		165.26- 247.89	40.08(TH)
	0.000	11.015		2696863		483	217.62- 326.43	1538.50(TH)
		Average of Peak Amounts =			129	180		
Decachlorobiphenyl	12.255	13.572	2587011	973417	16.4	11.8		100.00(M)
Aroclors, Total	0.000	0.000	9727988	4773471	1450	1400		0.00

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

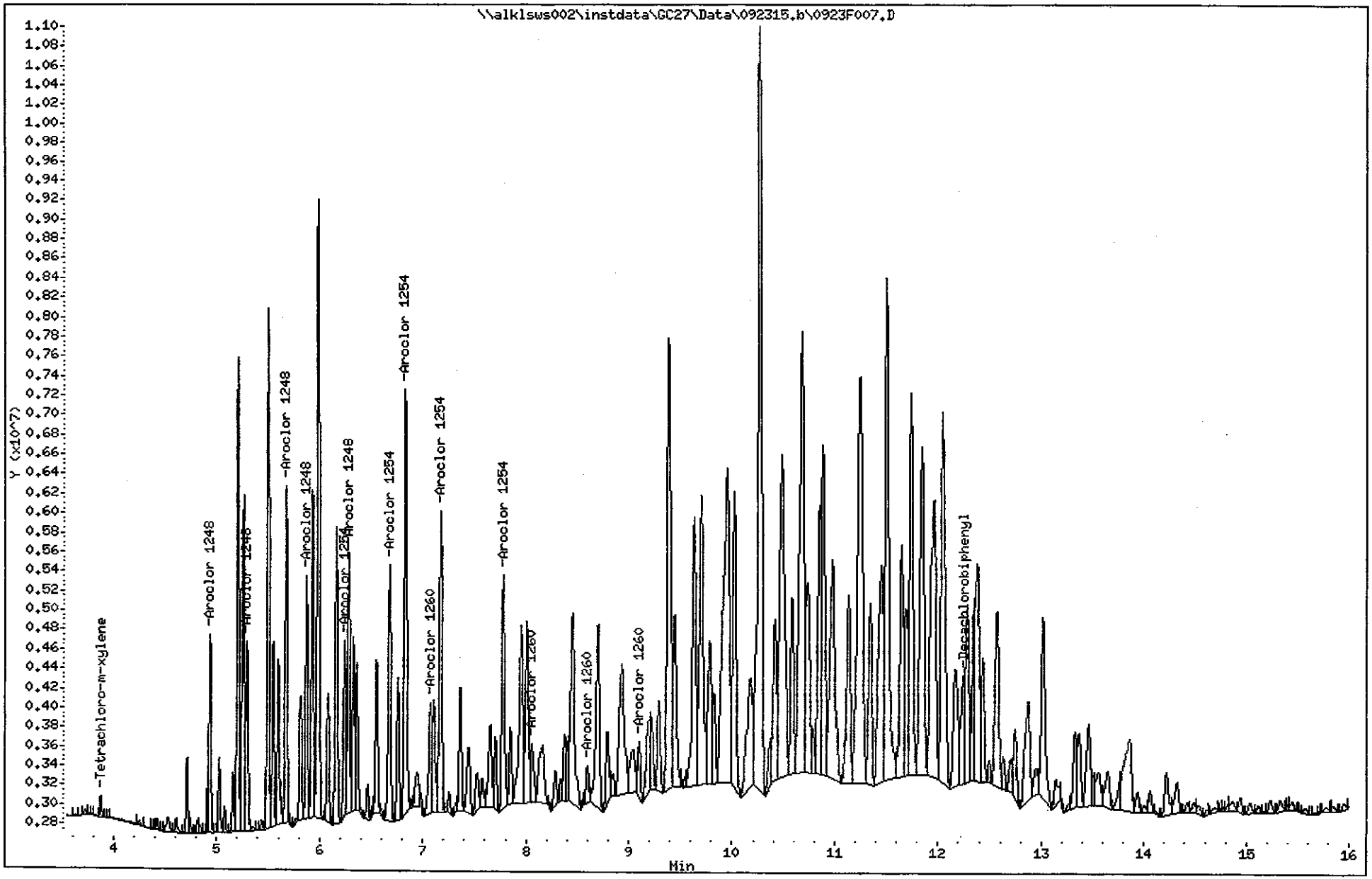
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Date : 23-SEP-2015 11:08
Client ID:
Sample Info: K1509213-003 100X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



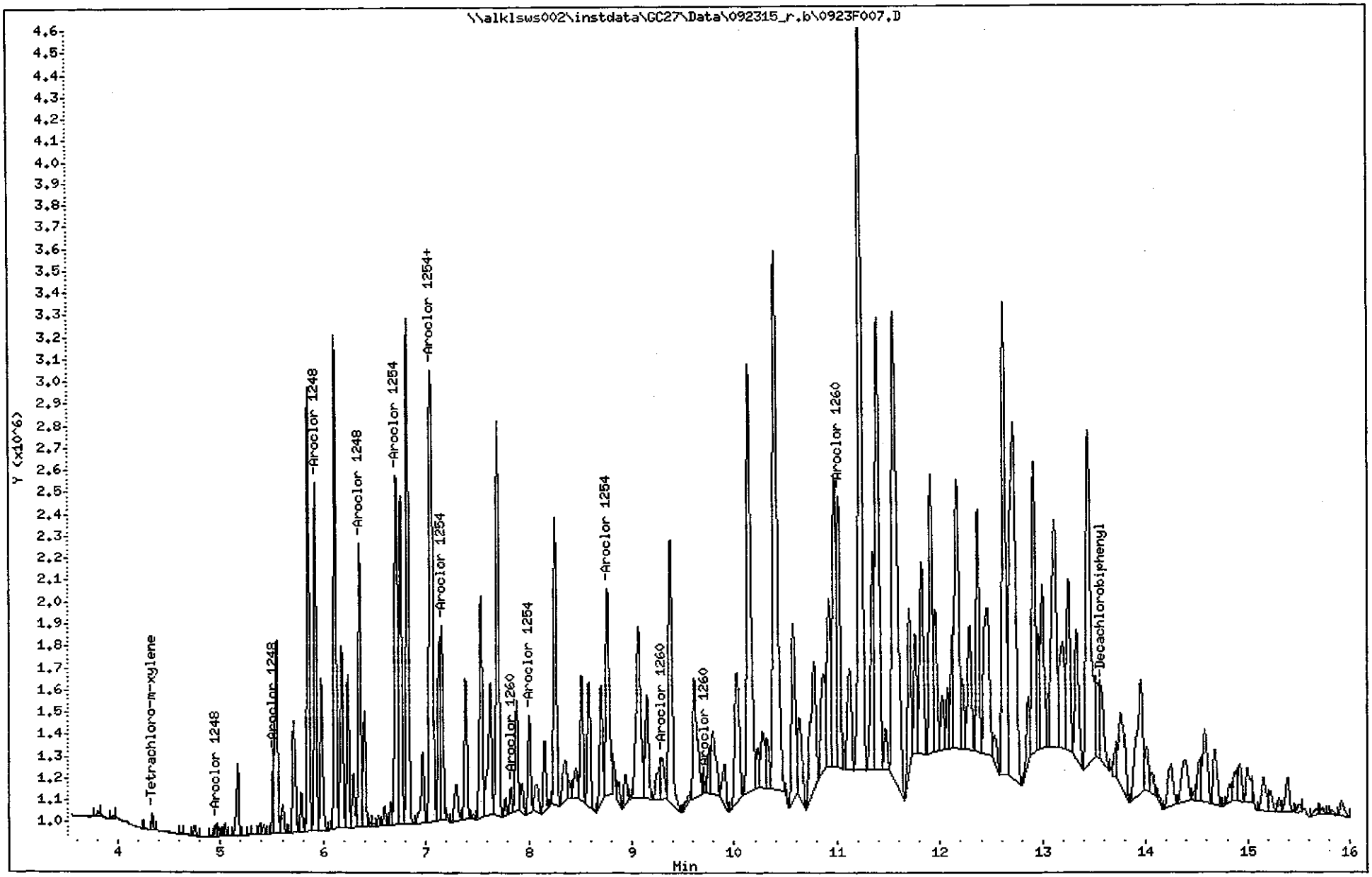
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Date : 23-SEP-2015 11:08
Client ID:
Sample Info: K1509213-003 100X

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

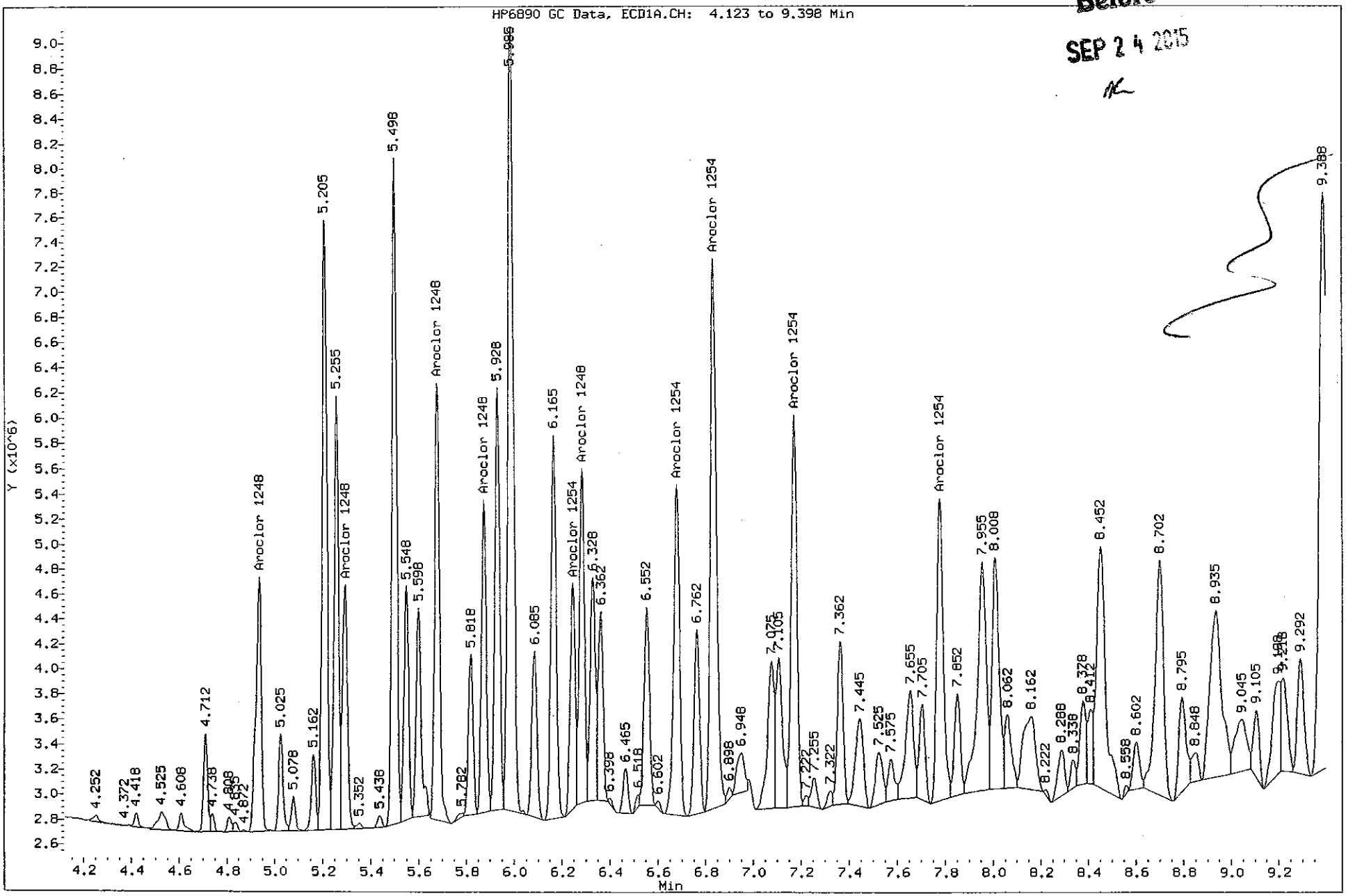
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

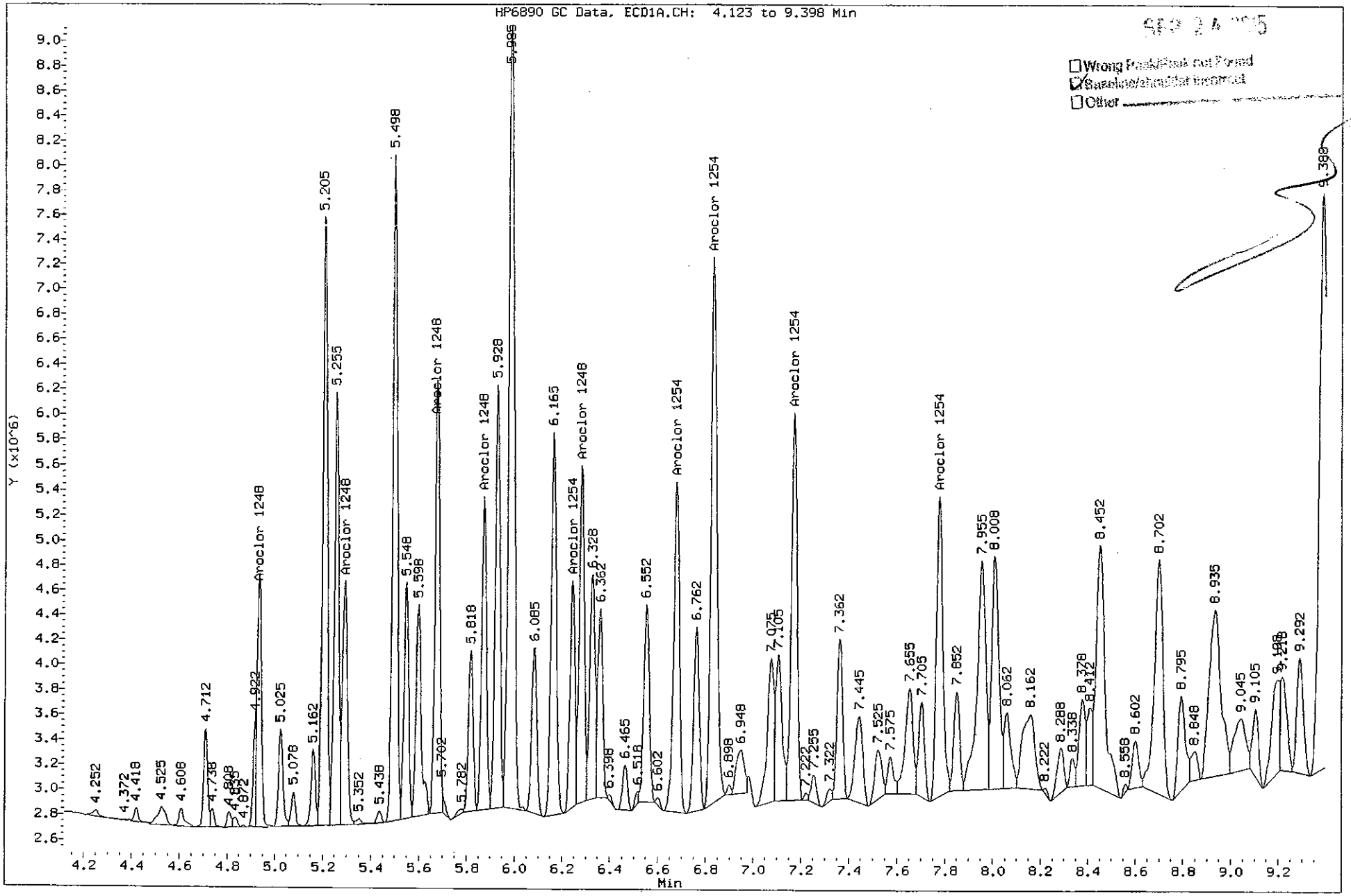
Before

SEP 24 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

After
Initials MM



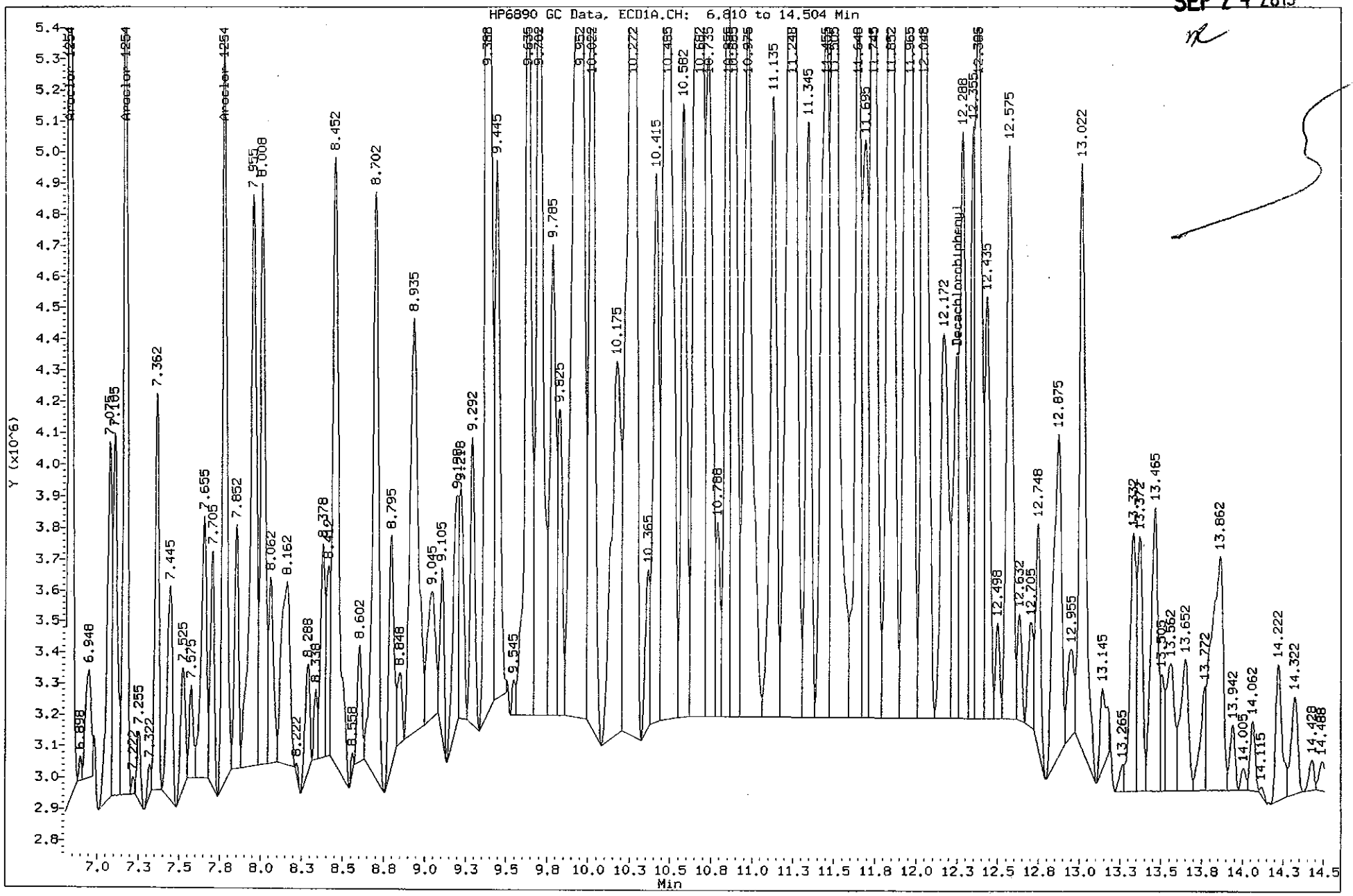
SEP 24 2015

☐ Wrong Peak/Peak not Found
☒ Baseline/shoulder incorrect
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

Before

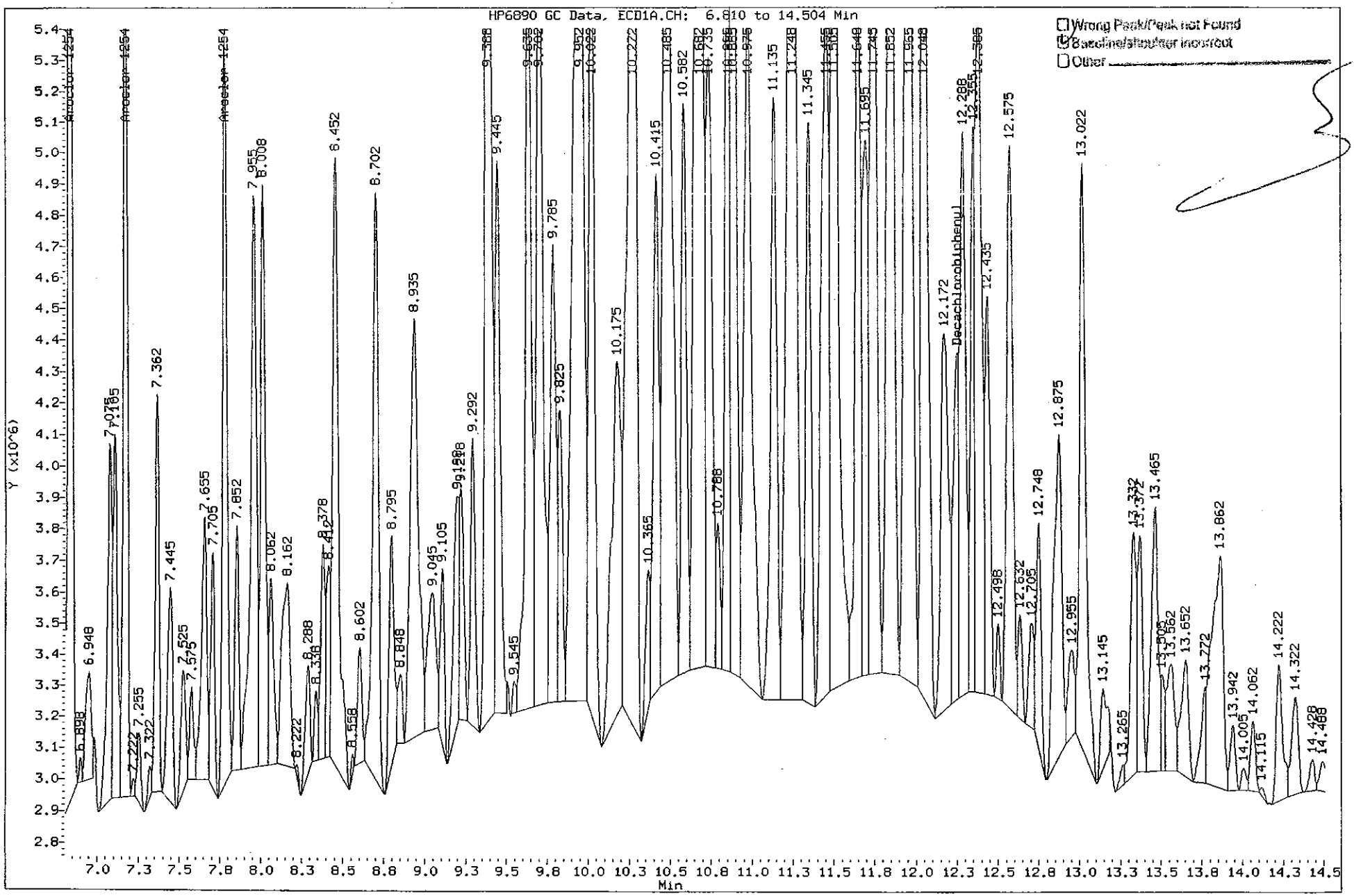
SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

After
Initials M

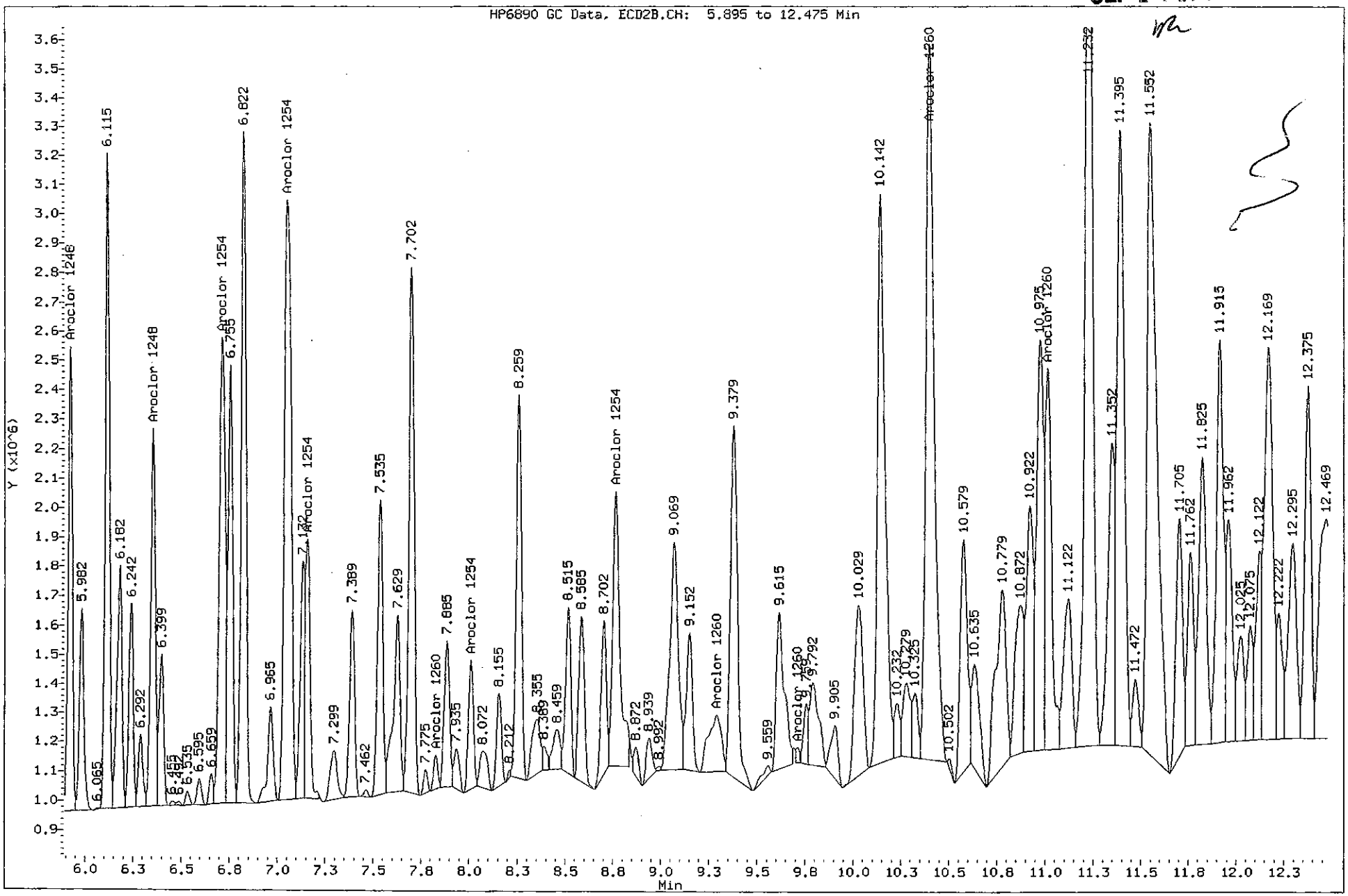
SEP 24 2015



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

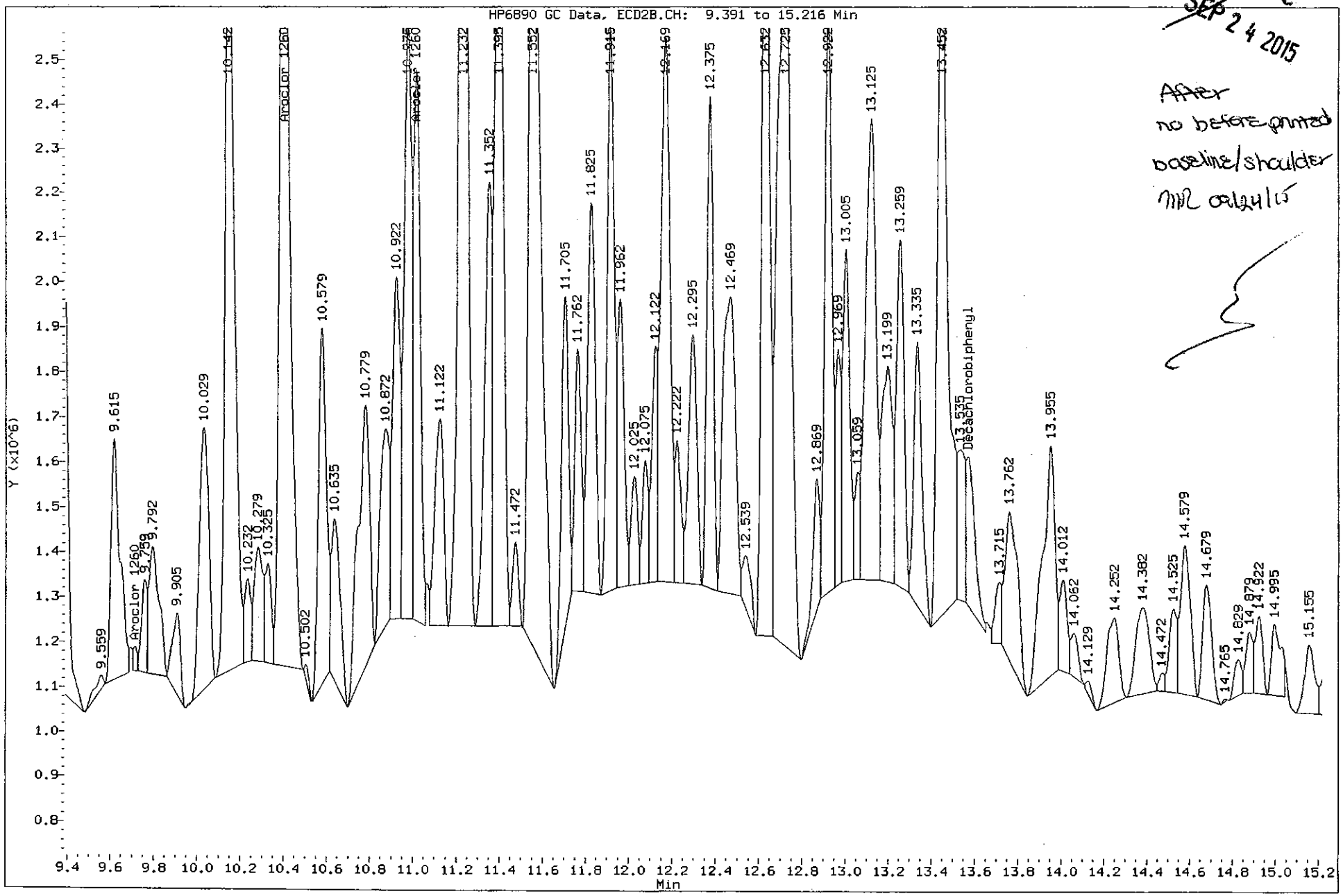
Before

SEP 2 4 2015



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F007.D
Injection Date: 23-SEP-2015 11:08
Instrument: GC27.i
Client Sample ID:

Before
SEP 24 2015



After
no before printed
baseline/shoulder
MR 09/24/15

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F008.D
Lab ID: KWG1508974-1 -- K1509213-003MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/23/2015 11:32
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV ok

Primary Review: MR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F008.D
Lab ID: KWG1508974-1 -- K1509213-003MS
RunType: MS
Matrix: SOIL

Date Acquired: 09/23/2015 11:32
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:35
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D			**Vial:**	29
Acqu Date:	09/23/2015 11:32	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-1 -- K1509213-003MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468014	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	223480	87727	1.26	1.12			126 #
			%Recovery =		126 #	112 #	Limits =	10-135	
Decachlorobiphenyl	12.25 -0.01	13.66 +0.04	2562013m	61943m	16.20	0.7520			1620 #
			%Recovery =		1620 #	75 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	121.18	48.84	1370D	551JD	551JPD
Aroclor 1016 {1}	4.24 +0.00	4.62	106346m	29668	29.63	16.14	334JD	210U	
Aroclor 1016 {2}	4.74 0.00	4.96 +0.00	196302m	98246	65.52	40.35	739D	455JD	
Aroclor 1016 {3}	4.94	5.61 +0.02	2654544m	270000	268.38	90.02	3030D	1020D	
Aroclor 1016 {4}	5.21 +0.00	5.92 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}	5.50	6.12 +0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1221			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {1}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {2}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}			0	0	0.0000	0.0000	210U	210U	
Aroclor 1232			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F008.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D			**Vial:**	29
Acqu Date:	09/23/2015 11:32	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	MS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-1 -- K1509213-003MS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclors, Total			2023722	370843	216.29	122.09	2440JD	1380JD	**2440**JPD
Aroclor 1260			0	0	95.11	73.25	1070D	826D	**826**D
Aroclor 1260 {1}	7.08 +0.01	7.83 +0.00	1171958m	149079m	118.97	67.58	1340D	762D	
Aroclor 1260 {2}	8.06 -0.03	9.30 +0.03	1062892m	361804m	131.00	95.72	1480D	1080D	
Aroclor 1260 {3}	8.66 +0.01	9.72 +0.00	417381m	203734m	50.71	56.46	572D	637D	
Aroclor 1260 {4}	9.11	10.41 +0.02	1499738m	0m	79.78	0.0000	900D	210U	
Aroclor 1260 {5}		11.02 -0.01	0m	0m	0.0000	0.0000	210U	210U	
Aroclor 1262			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	210U	210U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.164 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Report Date: 24-Sep-2015 19:00

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Inj Date : 23-SEP-2015 11:32
Sample Info: K1509213-003 MS 100X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	223480	87727	1.26	1.12		100.00
Aroclor 1016	4.241	4.618	106346	29668	29.6	16.1	80.00- 120.00	100.00(MH)
	4.741	4.955	196302	98246	65.5	40.4	66.17- 99.26	184.59(MH)
	4.935	5.608	2654544	270000	268	90.0	214.31- 321.46	2496.14(MH)
	5.208	5.922					93.97- 140.96	0.00(MH)
	5.498	6.118					91.56- 137.33	0.00(MH)
		Average of Peak Amounts =			121	48.8		
Aroclor 1260	7.078	7.832	1171958	149079	119	67.6	80.00- 120.00	100.00(TMH)
	8.061	9.295	1062892	361804	131	95.7	70.24- 105.36	90.69(TMH)
	8.655	9.715	417381	203734	50.7	56.5	71.65- 107.48	35.61(TMH)
	9.105	10.405	1499738		79.8		165.26- 247.89	127.97(TMH)
	0.000	11.018					217.62- 326.43	0.00(TMH)
		Average of Peak Amounts =			95.1	73.3		
Decachlorobiphenyl	12.251	13.658	2562013	61943	16.2	0.752		100.00(M)
Aroclors, Total	0.000	0.000	2023722	370843	216	122		100.00

QC Flag Legend

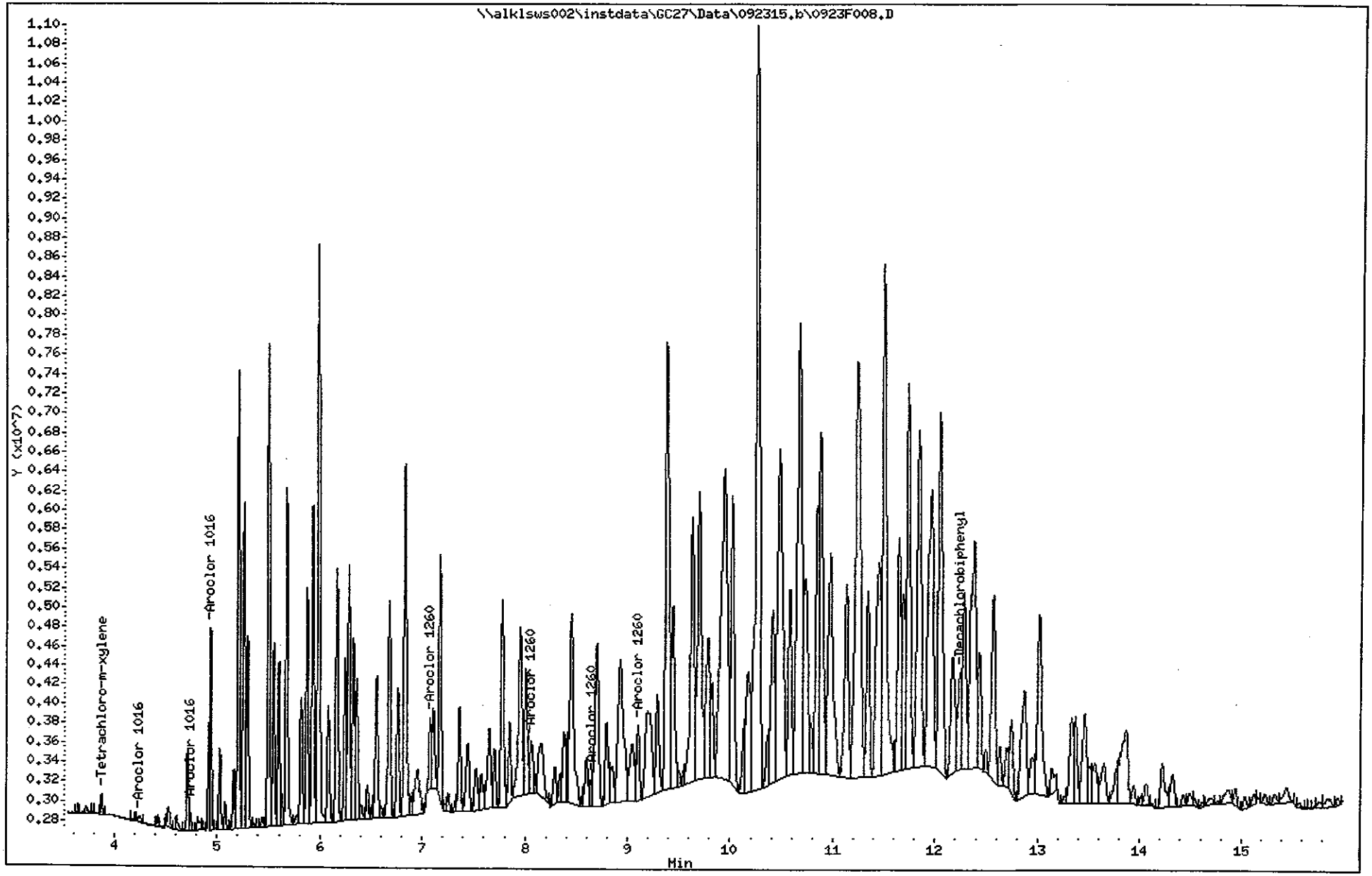
T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Date : 23-SEP-2015 11:32
Client ID:
Sample Info: K1509213-003 MS 100X

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32



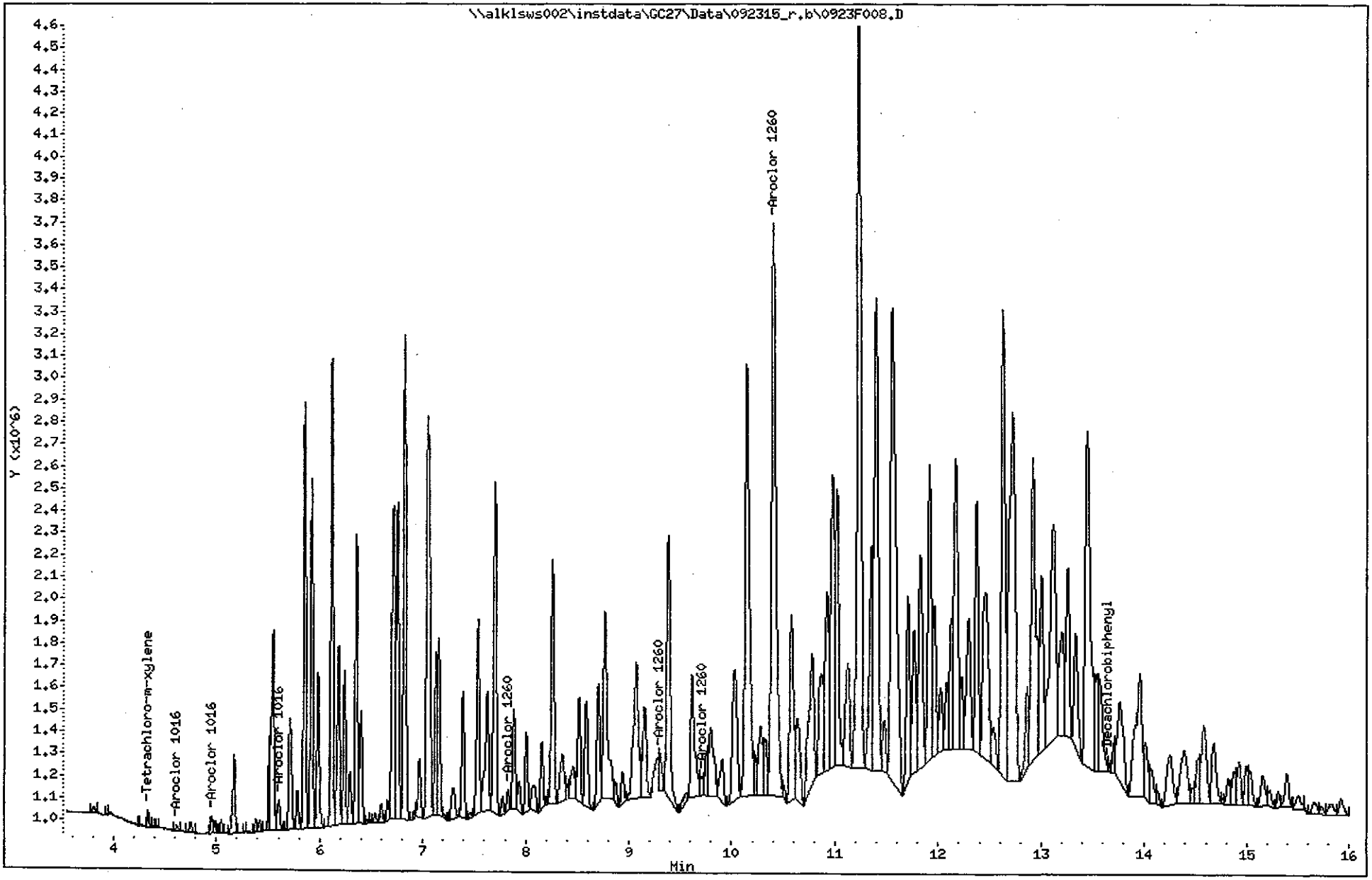
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Date : 23-SEP-2015 11:32
Client ID:
Sample Info: K1509213-003 MS 100X

Instrument: GC27.i

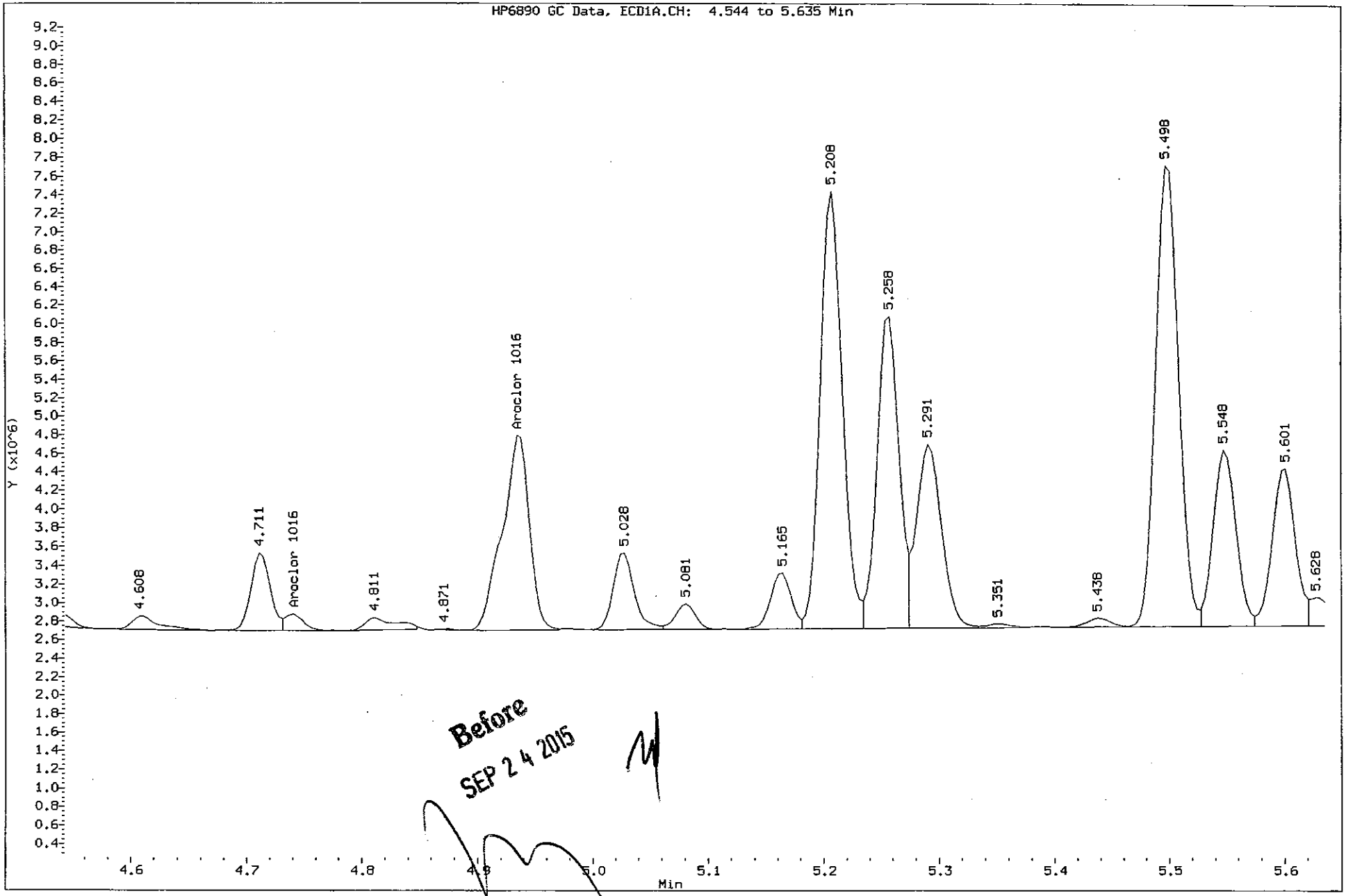
Operator: MR

Column phase: DB-XLB

Column diameter: 0.32

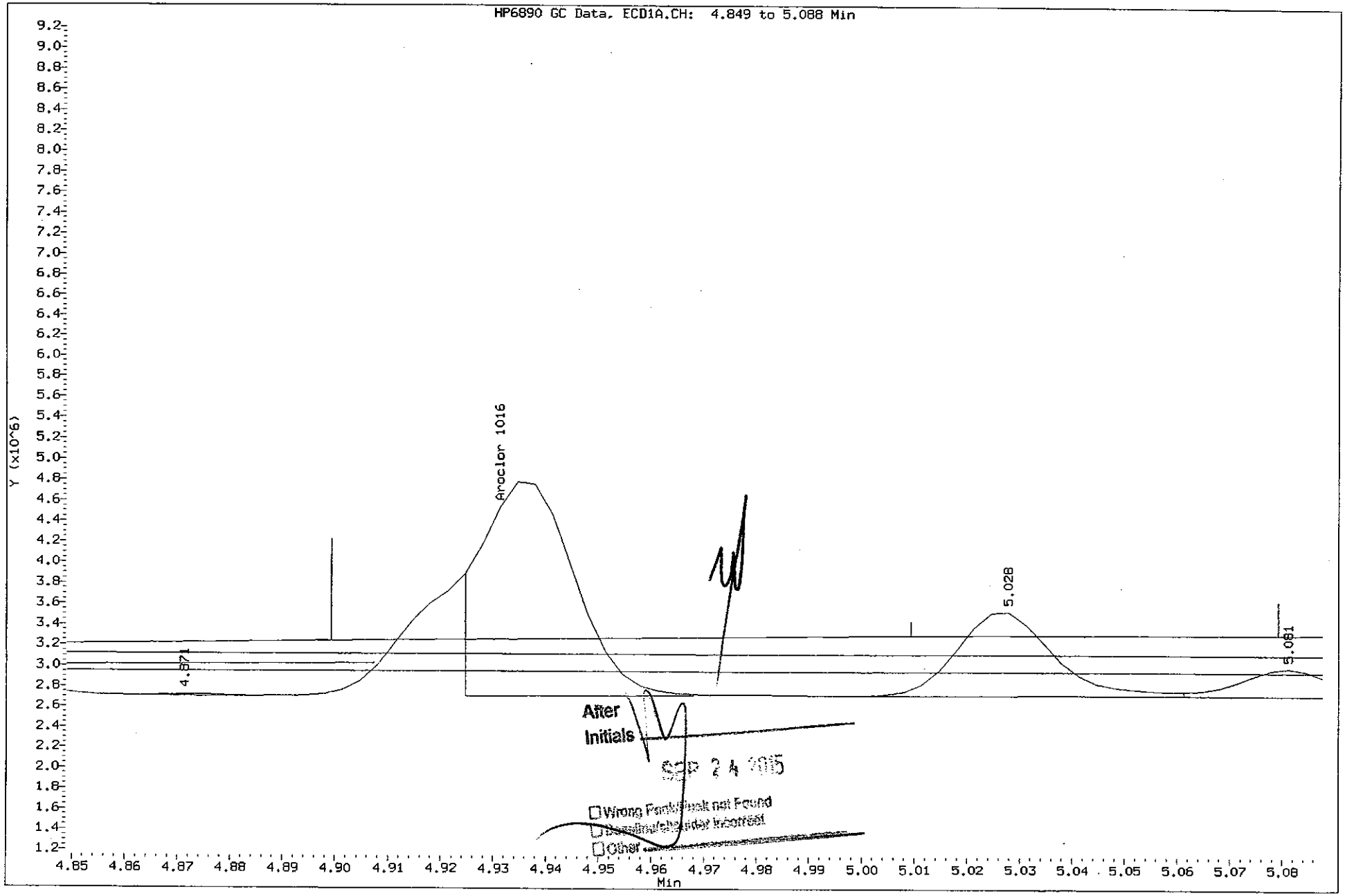


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

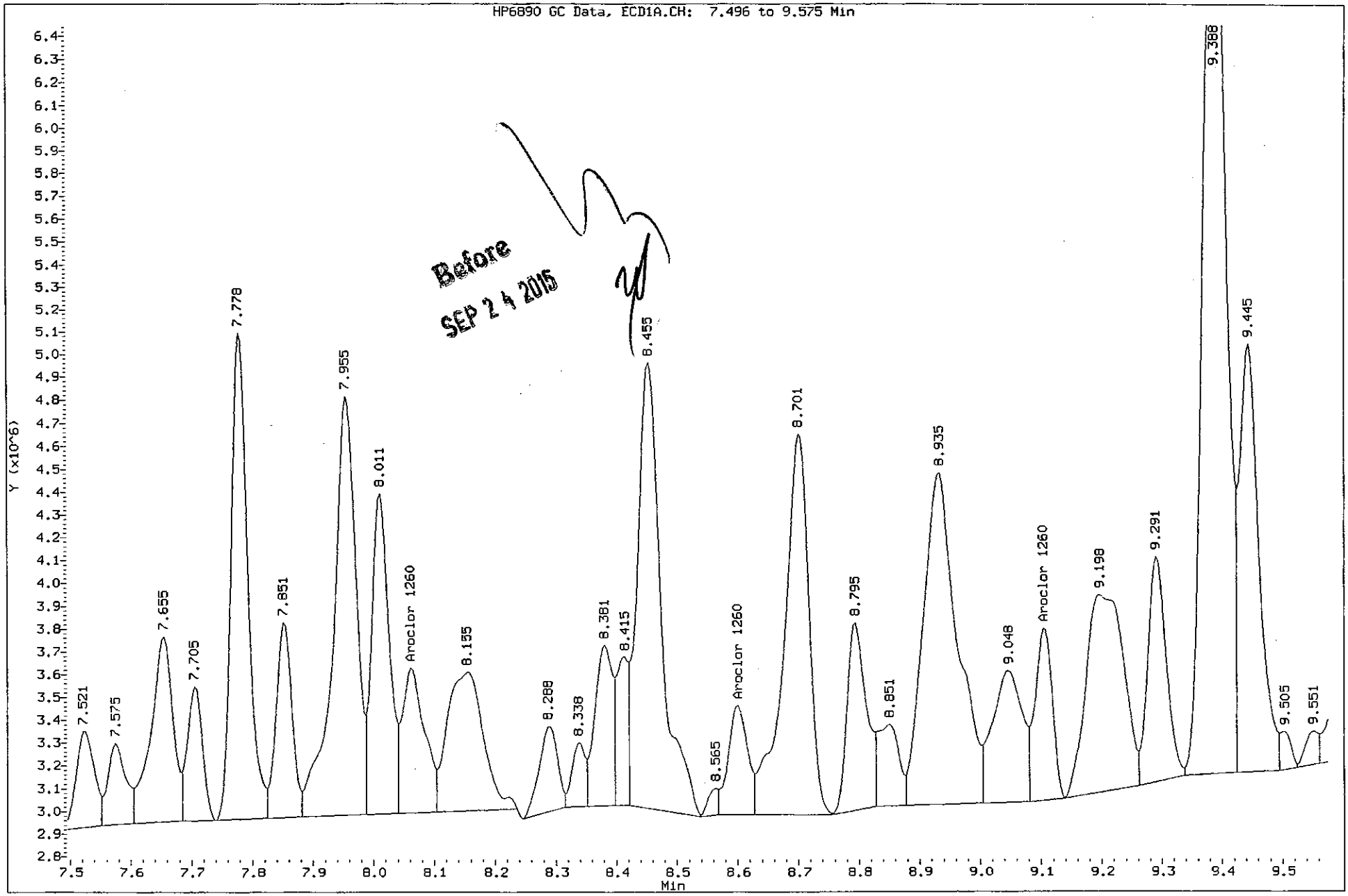


Before
SEP 24 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.1
Client Sample ID:

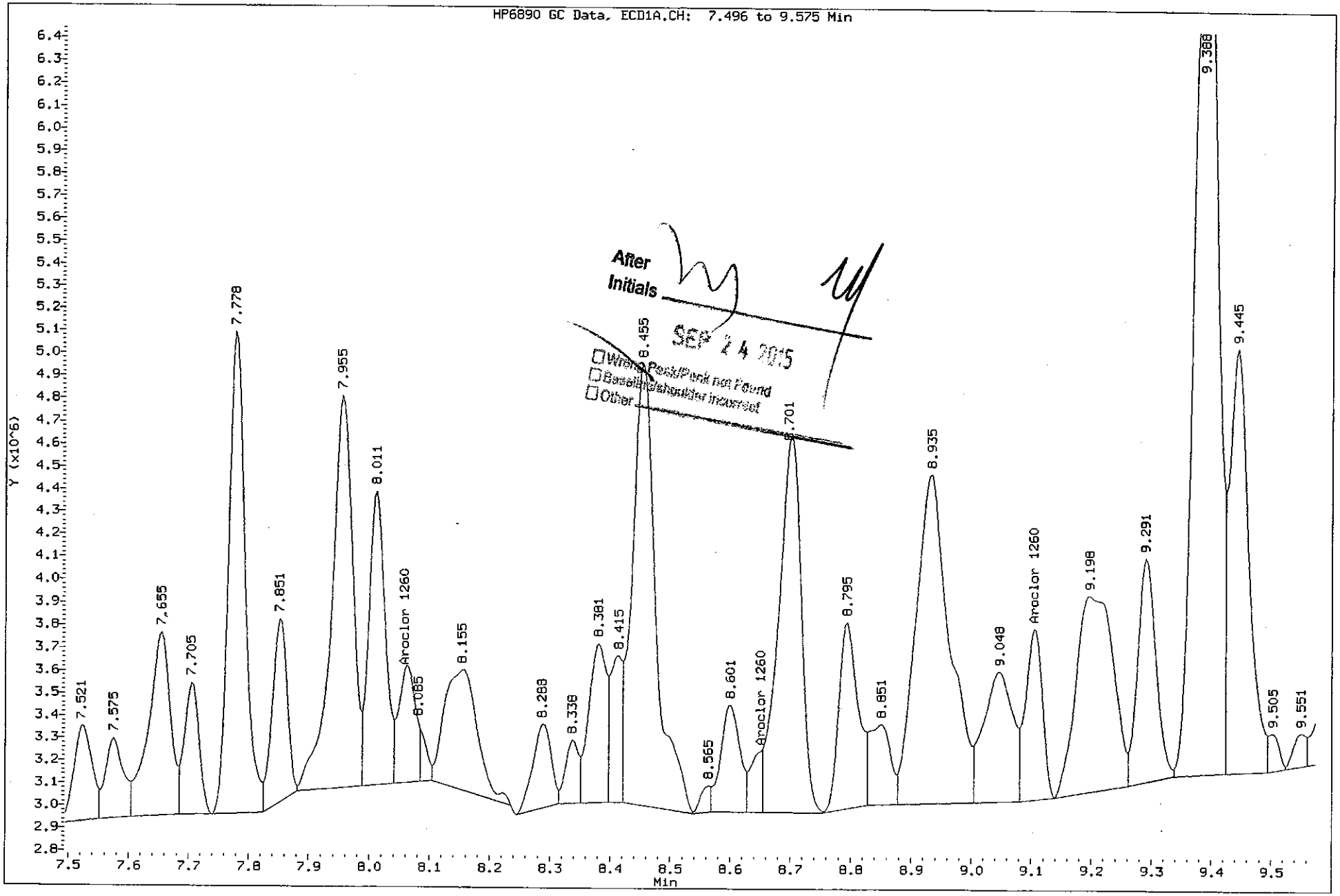


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Before
SEP 24 2015

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

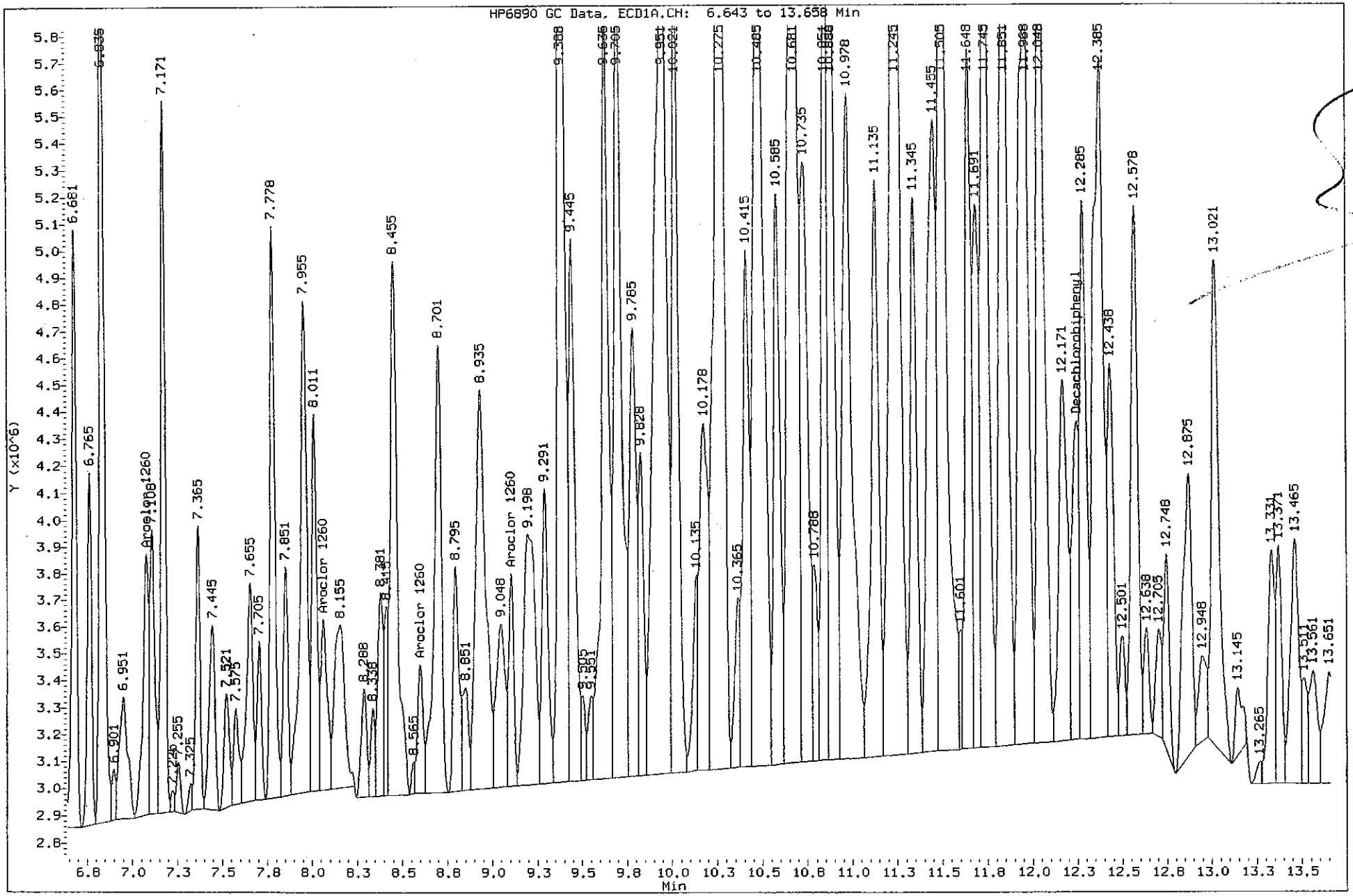


After
Initials
SEP 24 2015
☐ Wrong Peak/Peak not Found
☐ Baseline/shoulder incorrect
☐ Other

Before

SEP 2 4 2015

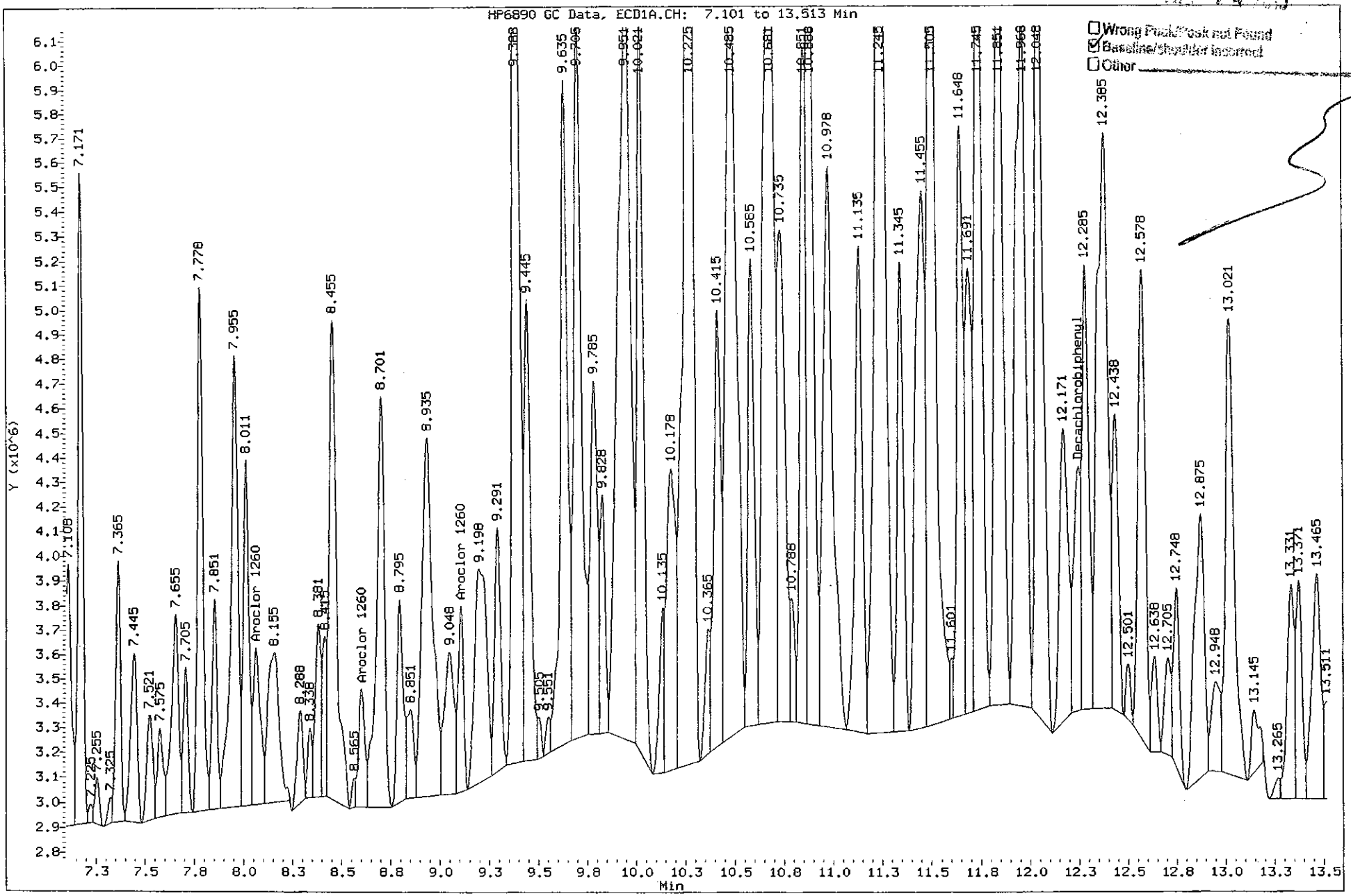
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

After
Initials

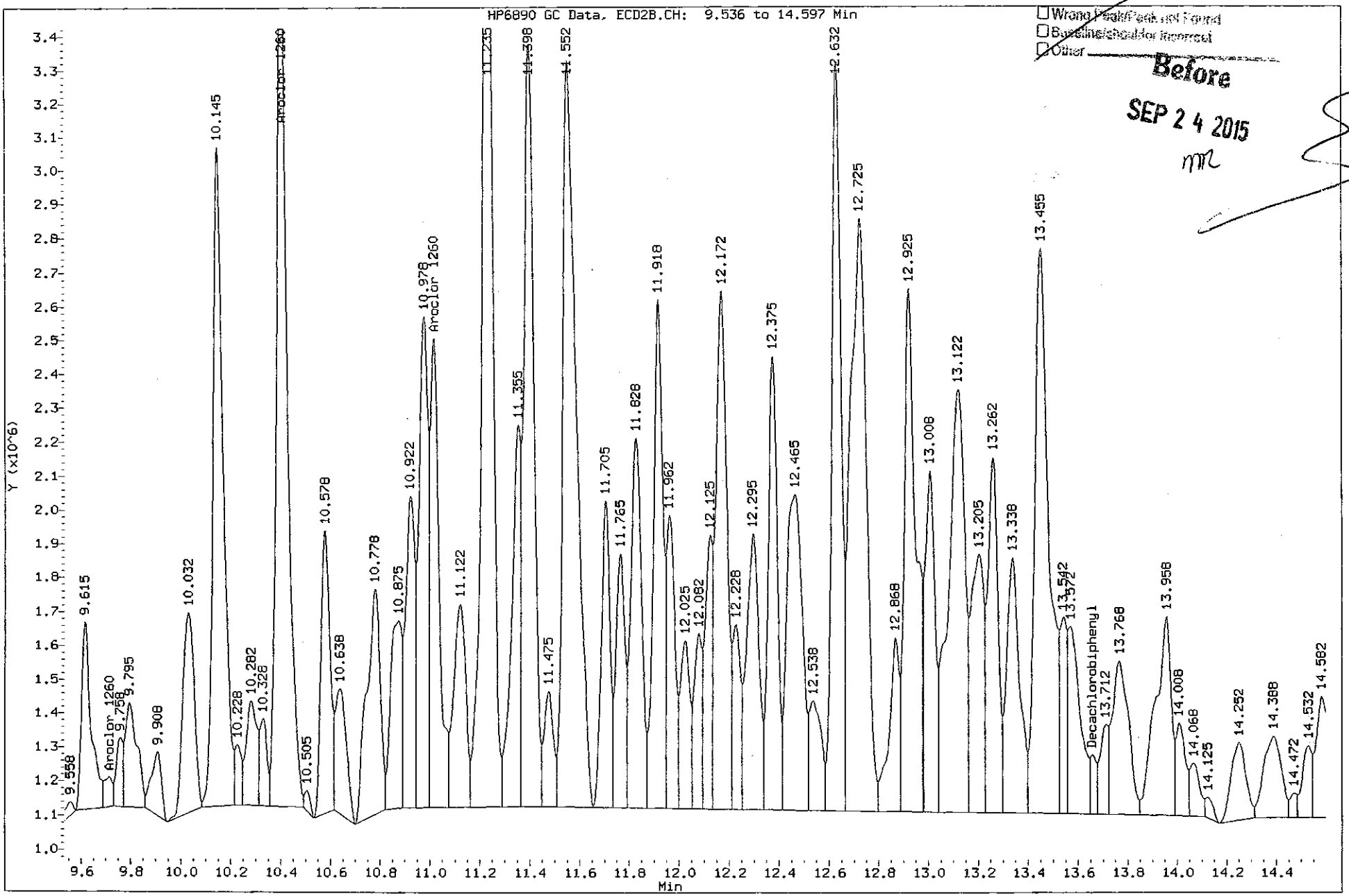
SEP 24 2015



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

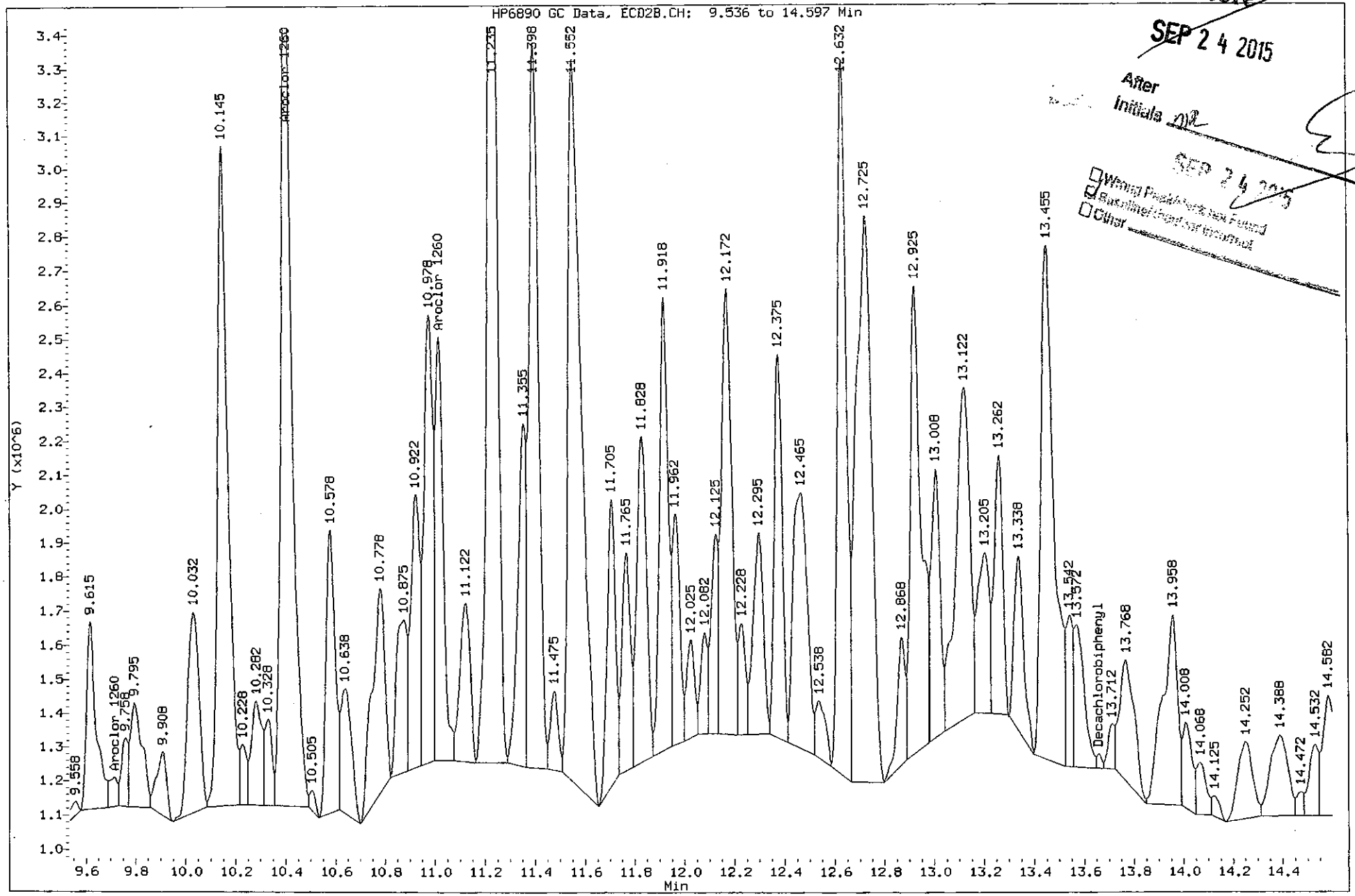
After
Initials
SEP 24 2015
☐ Wrong Peak/Peak not Found
☐ Baseline/Shoulder Incorrect
☐ Other

Before
SEP 24 2015
mr



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:

Before
SEP 2 4 2015
After
Initials
SEP 2 4 2015
Wrong Peak/Mark not Found
Baseline/Shoulder Incorrect
Other



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F009.D
Lab ID: KWG1508974-2 -- K1509213-003DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/23/2015 11:55
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MR 09/24/15

Secondary Review: _____

Printed: 09/24/2015 14:38:39
u:\Stealth\Crystal.rpt\except2.rpt

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F009.D
Lab ID: KWG1508974-2 -- K1509213-003DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 09/23/2015 11:55
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	*	NA	NA		x

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	IOV dl
	Aroclor 1260	22.7	NA	20	IOV Dual

Primary Review: MR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D			**Vial:**	30
Acqu Date:	09/23/2015 11:55	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-2 -- K1509213-003DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468015	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1		RT #2		Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	+0.00	4.34	+0.00	224098	82305	1.27	1.05			127 #
					%Recovery =		127 #	105 #	Limits =	10-135	
Decachlorobiphenyl	12.25	-0.01			2198317m	0	13.90	0.0000			1390 #
					%Recovery =		1390 #	0 #	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Dry Weight

Parameter Name	RT #1		RT #2		Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016					0	0	111.24	48.02	1250D	541JD	541JPD
Aroclor 1016 {1}	4.24	+0.01	4.62	+0.00	108738m	27134	30.30	14.76	341JD	210U	
Aroclor 1016 {2}	4.74	0.00	4.95	+0.00	147329m	93016	49.17	38.21	554JD	430JD	
Aroclor 1016 {3}	4.94	+0.00	5.61	+0.02	2514662m	273247	254.24	91.11	2860D	1030D	
Aroclor 1016 {4}	5.21	+0.00	5.92	+0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1016 {5}	5.50	+0.00	6.12	+0.00	0m	0	0.0000	0.0000	210U	210U	
Aroclor 1221					0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1221 {1}					0d	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {2}					0d	0	0.0000	0.0000	210U	210U	
Aroclor 1221 {3}					0d	0	0.0000	0.0000	210U	210U	
Aroclor 1232					0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1232 {1}					0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {2}					0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {3}					0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {4}					0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1232 {5}					0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242					0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1242 {1}					0d	0d	0.0000	0.0000	210U	210U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F009.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D			**Vial:**	30
Acqu Date:	09/23/2015 11:55	**Quant Date:**	09/28/2015 13:24	**Dilution:**	100.0
Run Type:	DMS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-2 -- K1509213-003DMS				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Dry Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclors, Total			1736638	314703	187.67	106.05	2110JD	1190JD	**2110**JPD
Aroclor 1260			0	0	76.43	58.02	860D	653D	**860**D
Aroclor 1260 {1}	7.08 +0.00	7.83 +0.00	1056442m	147697m	107.25	66.96	1210D	754D	
Aroclor 1260 {2}	8.06 -0.03	9.28 +0.01	860660m	364094m	106.07	96.33	1190D	1080D	
Aroclor 1260 {3}	8.65 +0.00	9.71 +0.00	313114m	38923m	38.04	10.79	428JD	210U	
Aroclor 1260 {4}	9.11 +0.00	10.40 +0.02	1022031m	0m	54.37	0.0000	612D	210U	
Aroclor 1260 {5}		11.02 -0.01	0m	0m	0.0000	0.0000	210U	210U	
Aroclor 1262			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268			0	0	0.0000	0.0000	210U	210U	210U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	210U	210U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	210U	210U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	40.245 g	**Dilution:**	100.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	88.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Report Date: 24-Sep-2015 19:00

ALS Environmental

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Inj Date : 23-SEP-2015 11:55
Sample Info: K1509213-003 DMS 100X
Misc Info :
Cal Date : 24-SEP-2015 12:24
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.879	4.339	224098	82305	1.27	1.05		100.00
Aroclor 1016	4.243	4.619	108738	27134	30.3	14.8	80.00- 120.00	100.00(MH)
	4.739	4.953	147329	93016	49.2	38.2	66.17- 99.26	135.49(MH)
	4.936	5.606	2514662	273247	254	91.1	214.31- 321.46	2312.59(MH)
	5.206	5.923					93.97- 140.96	0.00(MH)
	5.499	6.116					91.56- 137.33	0.00(MH)
		Average of Peak Amounts =			111	48.0		
Aroclor 1260	7.076	7.829	1056442	147697	107	67.0	80.00- 120.00	100.00(TMH)
	8.063	9.279	860660	364094	106	96.3	70.24- 105.36	81.47(TMH)
	8.646	9.713	313114	38923	38.0	10.8	71.65- 107.48	29.64(TMH)
	9.106	10.403	1022031		54.4		165.26- 247.89	96.74(TMH)
	0.000	11.016					217.62- 326.43	0.00(TMH)
		Average of Peak Amounts =			76.4	58.0		
Decachlorobiphenyl	12.253	0.000	2198317	0	13.9	0.000		100.00(M)
Aroclors, Total	0.000	0.000	1736638	314703	188	106		100.00

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

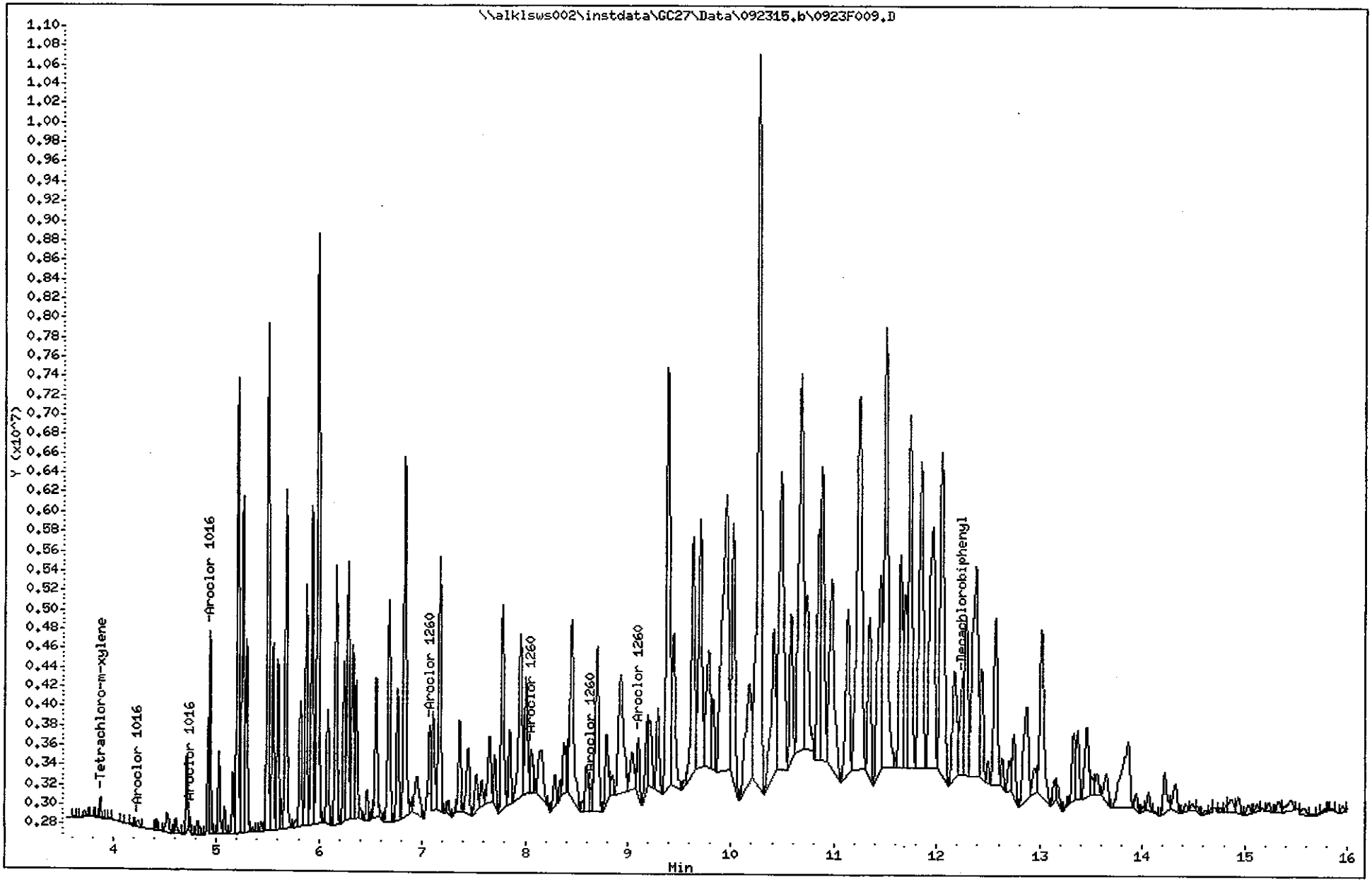
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Date : 23-SEP-2015 11:56
Client ID:
Sample Info: K1509213-003 DMS 100X

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

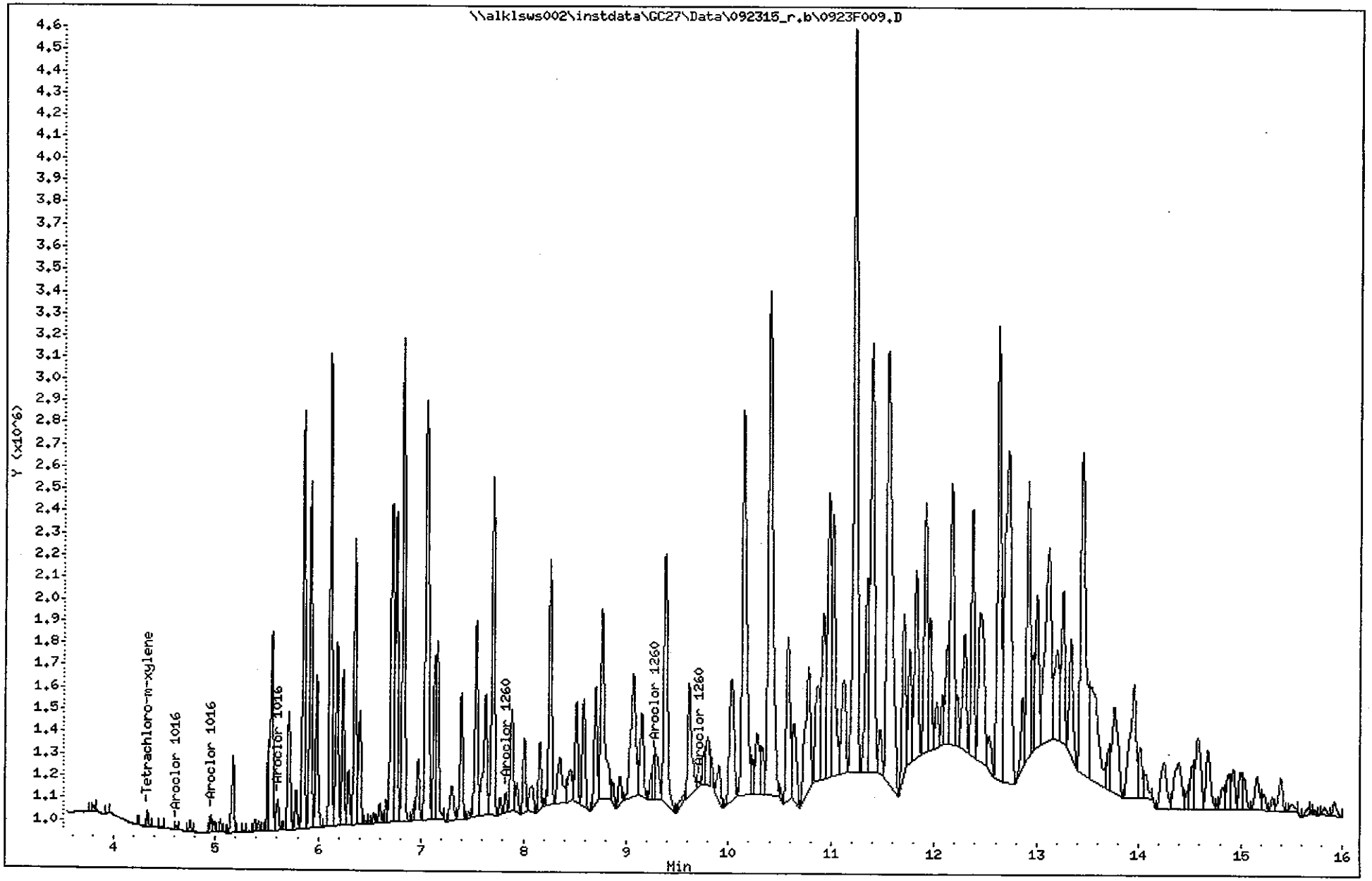


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Date : 23-SEP-2015 11:55
Client ID:
Sample Info: K1509213-003 DMS 100X

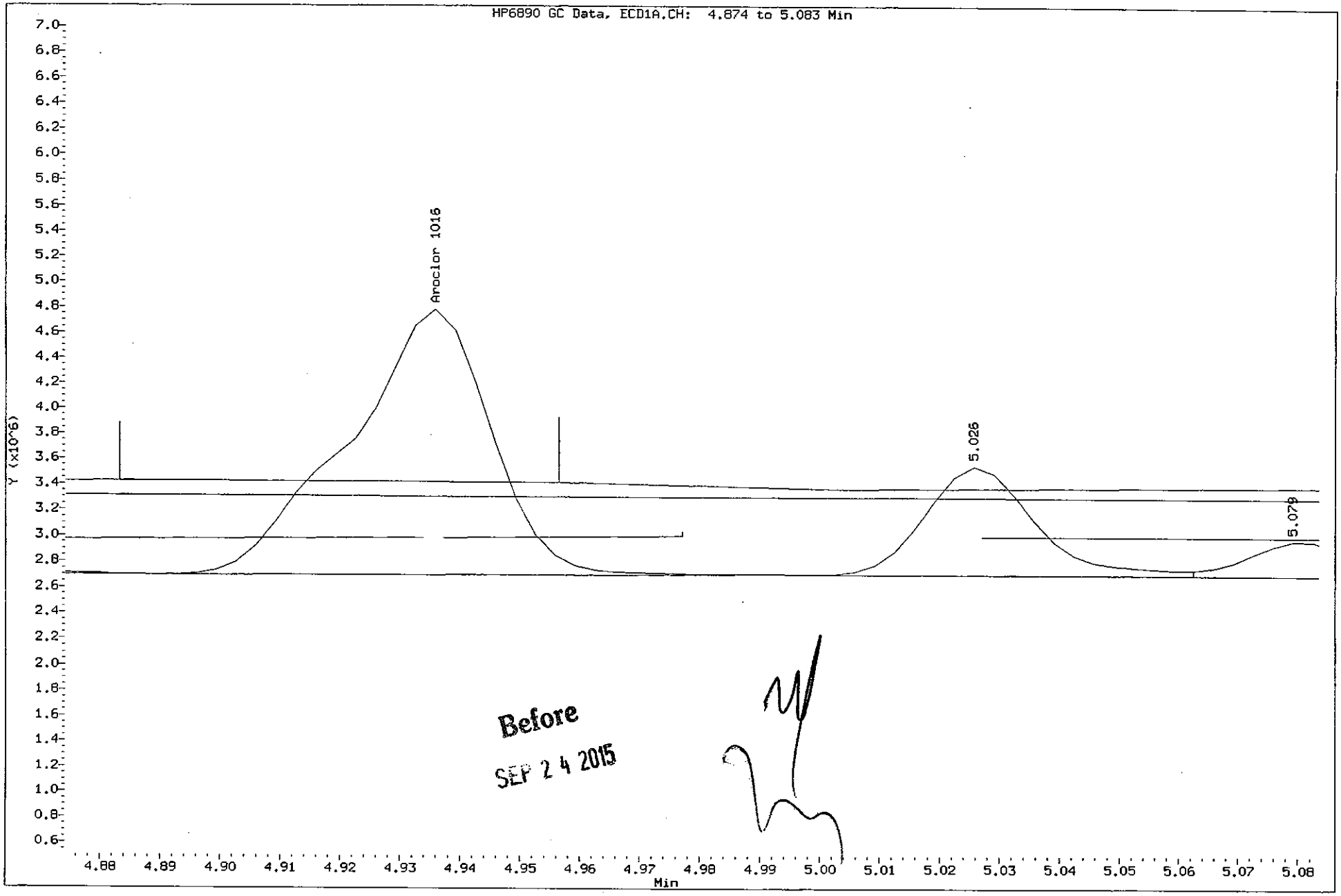
Column phase: DB-XLB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

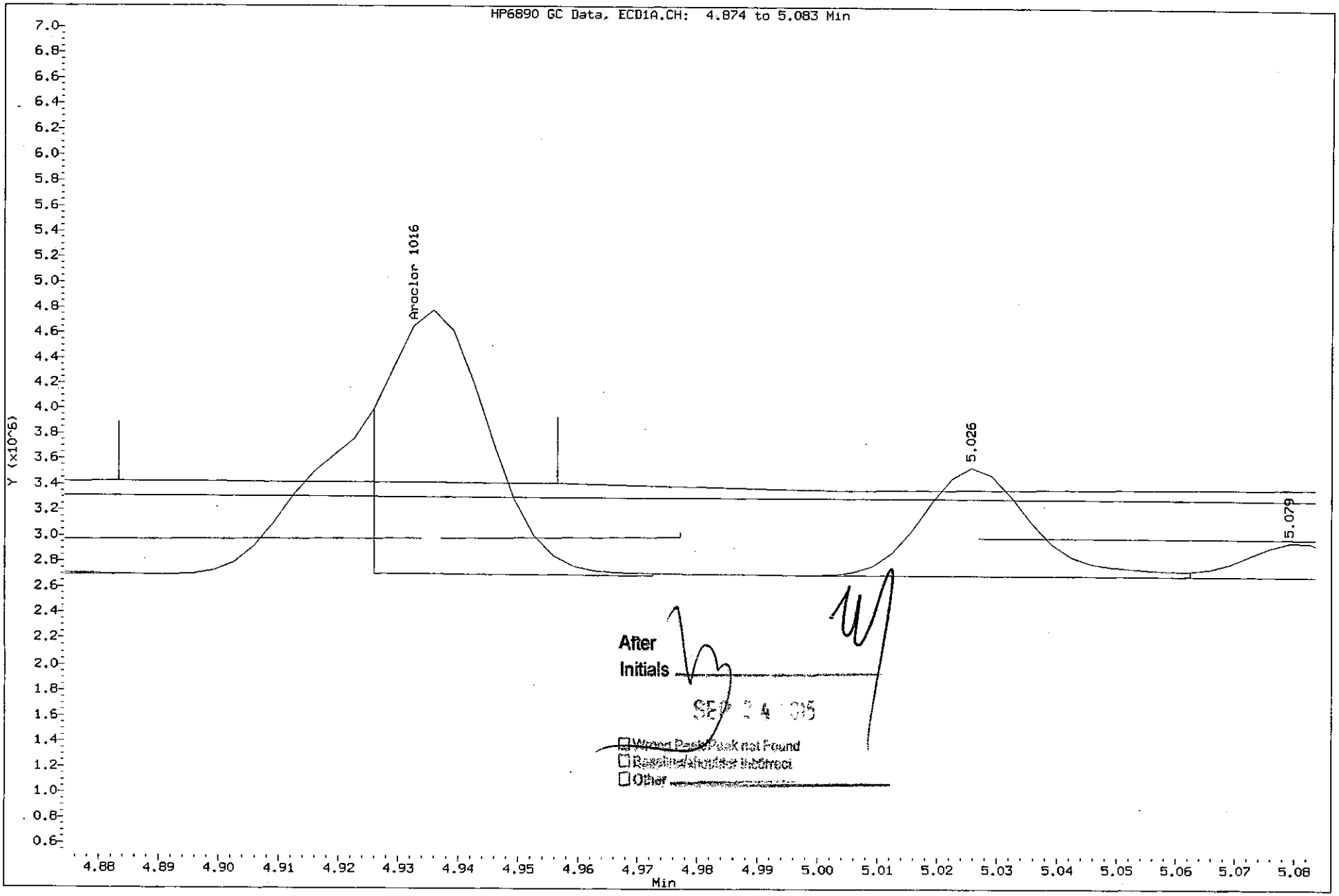


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:

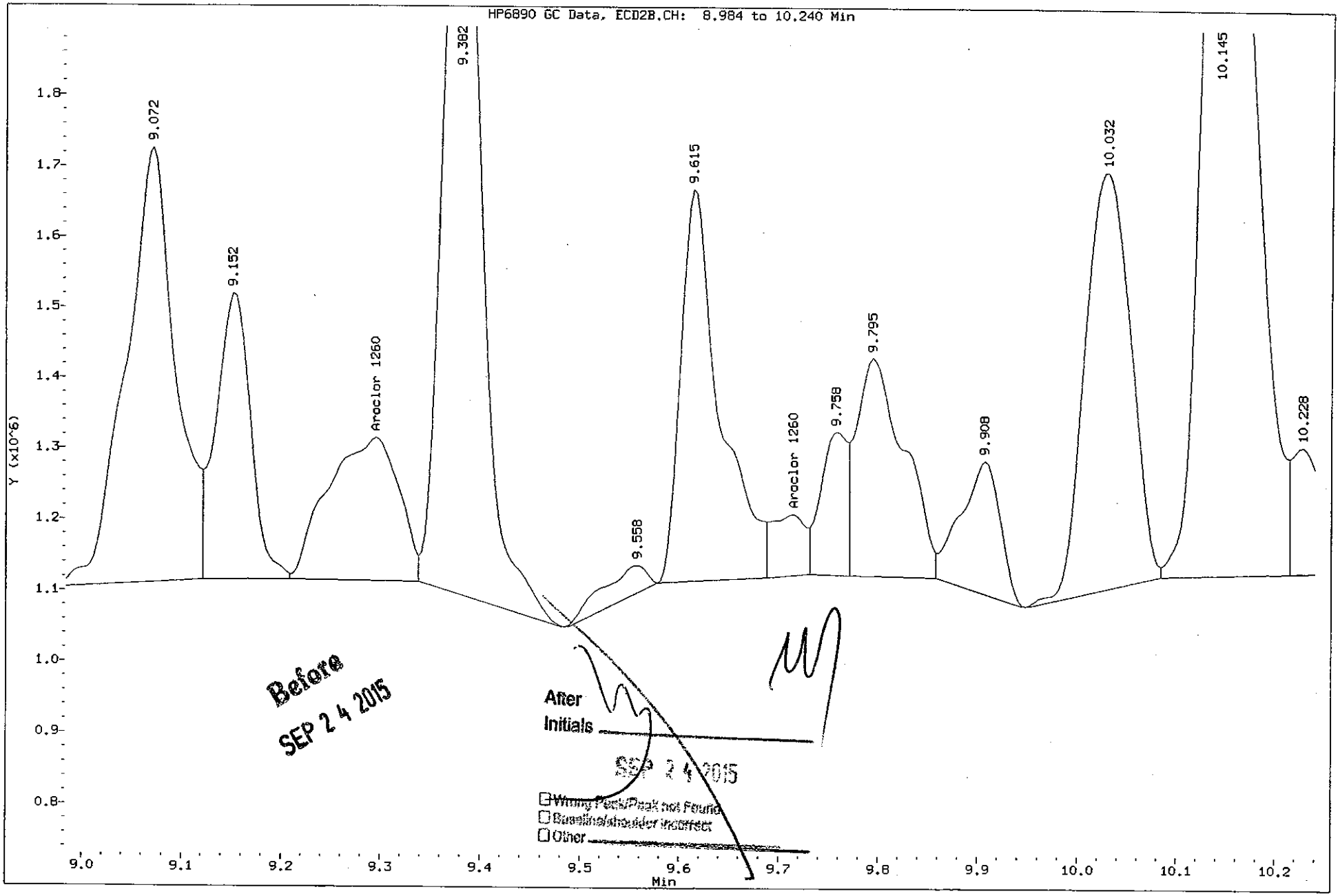


Before
SEP 24 2015

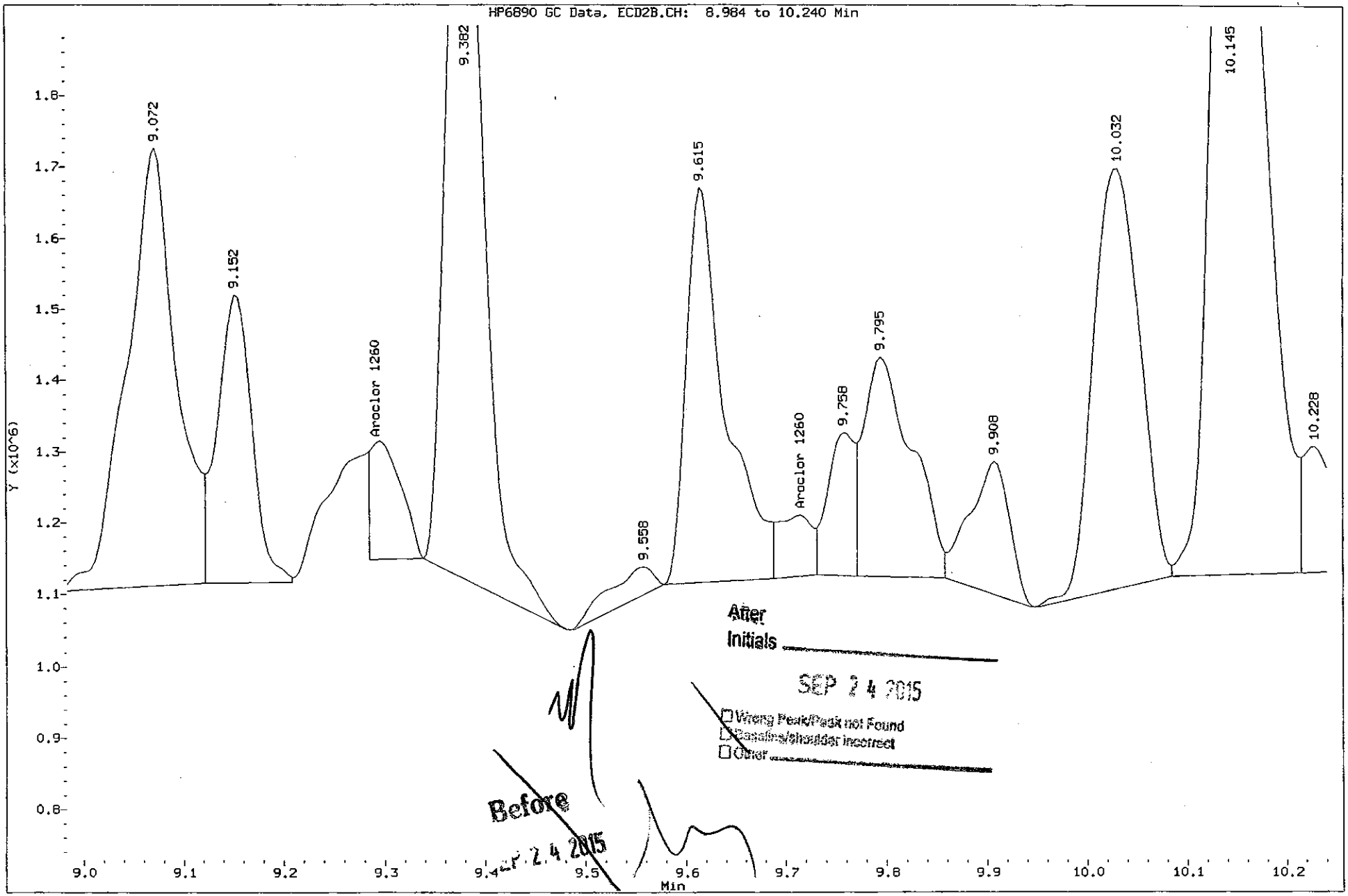
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



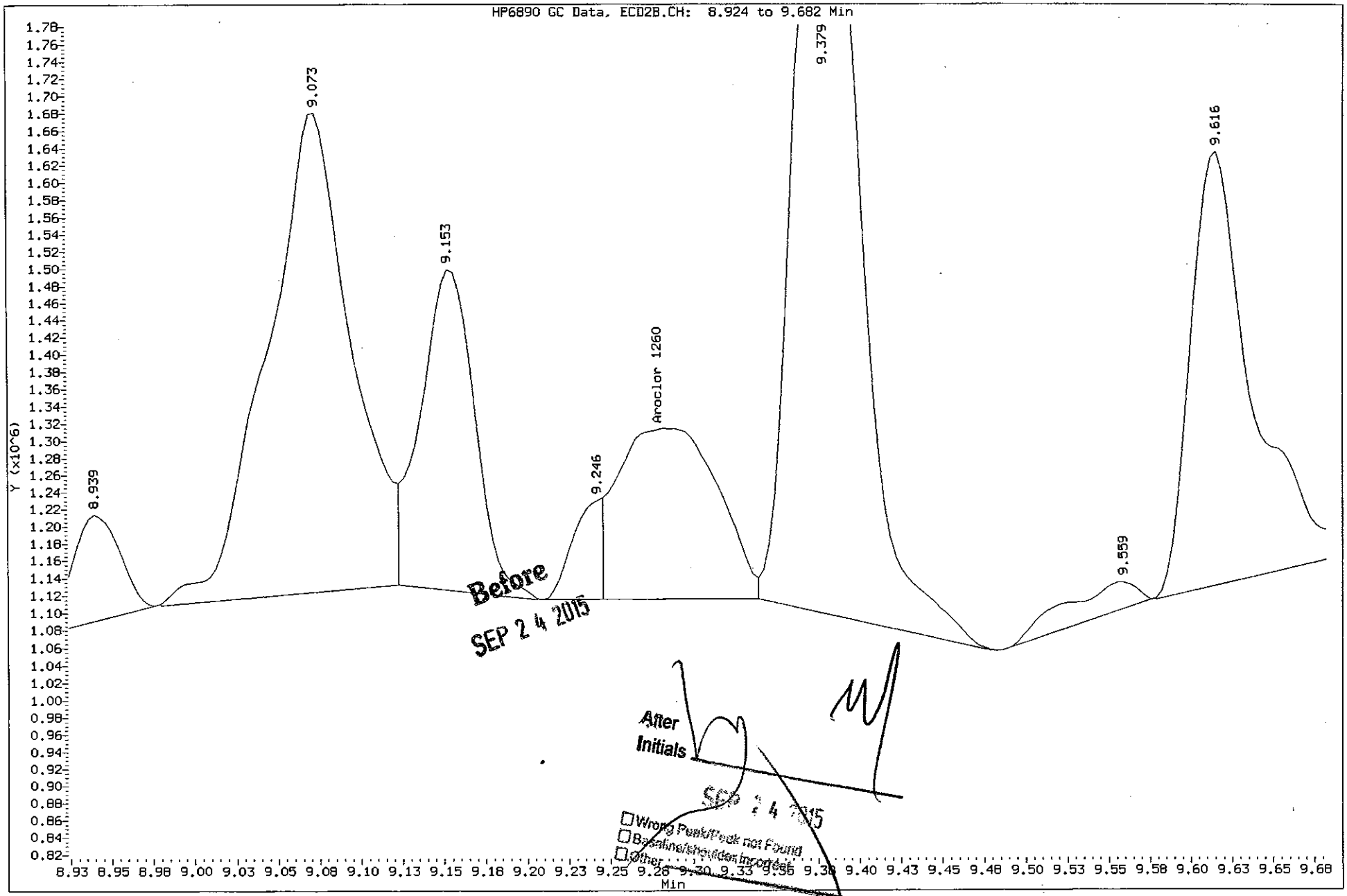
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



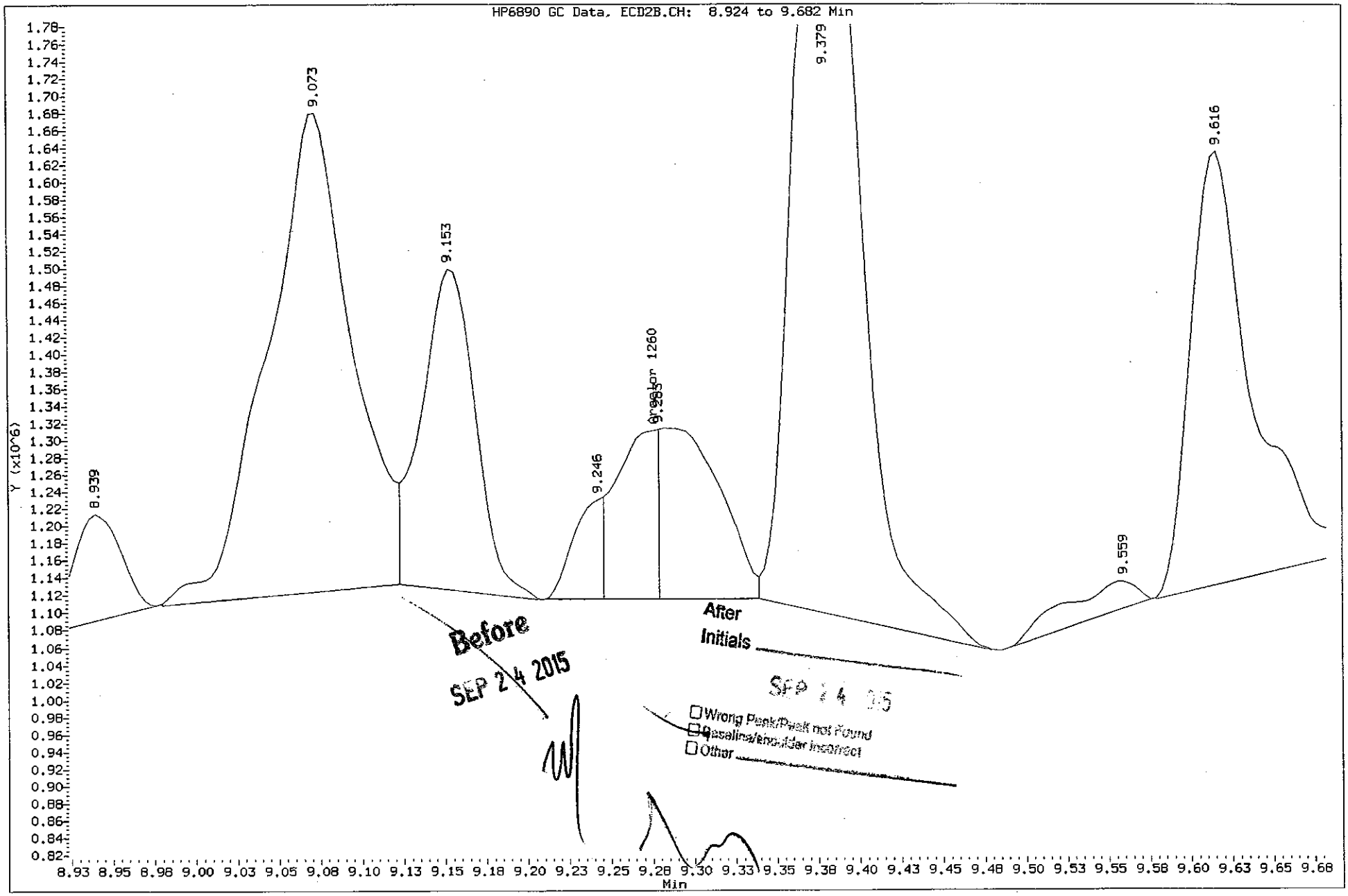
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F008.D
Injection Date: 23-SEP-2015 11:32
Instrument: GC27.i
Client Sample ID:



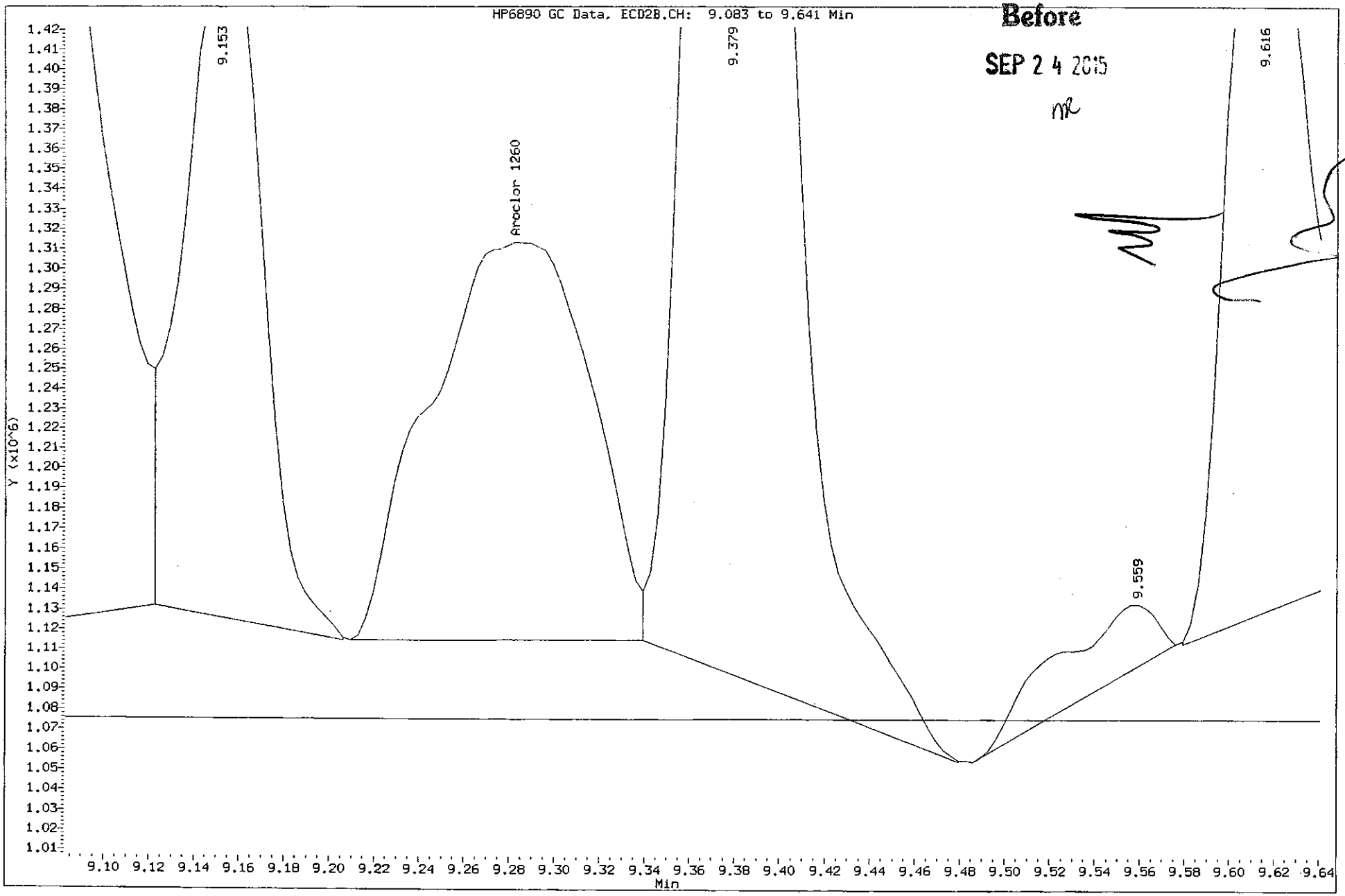
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



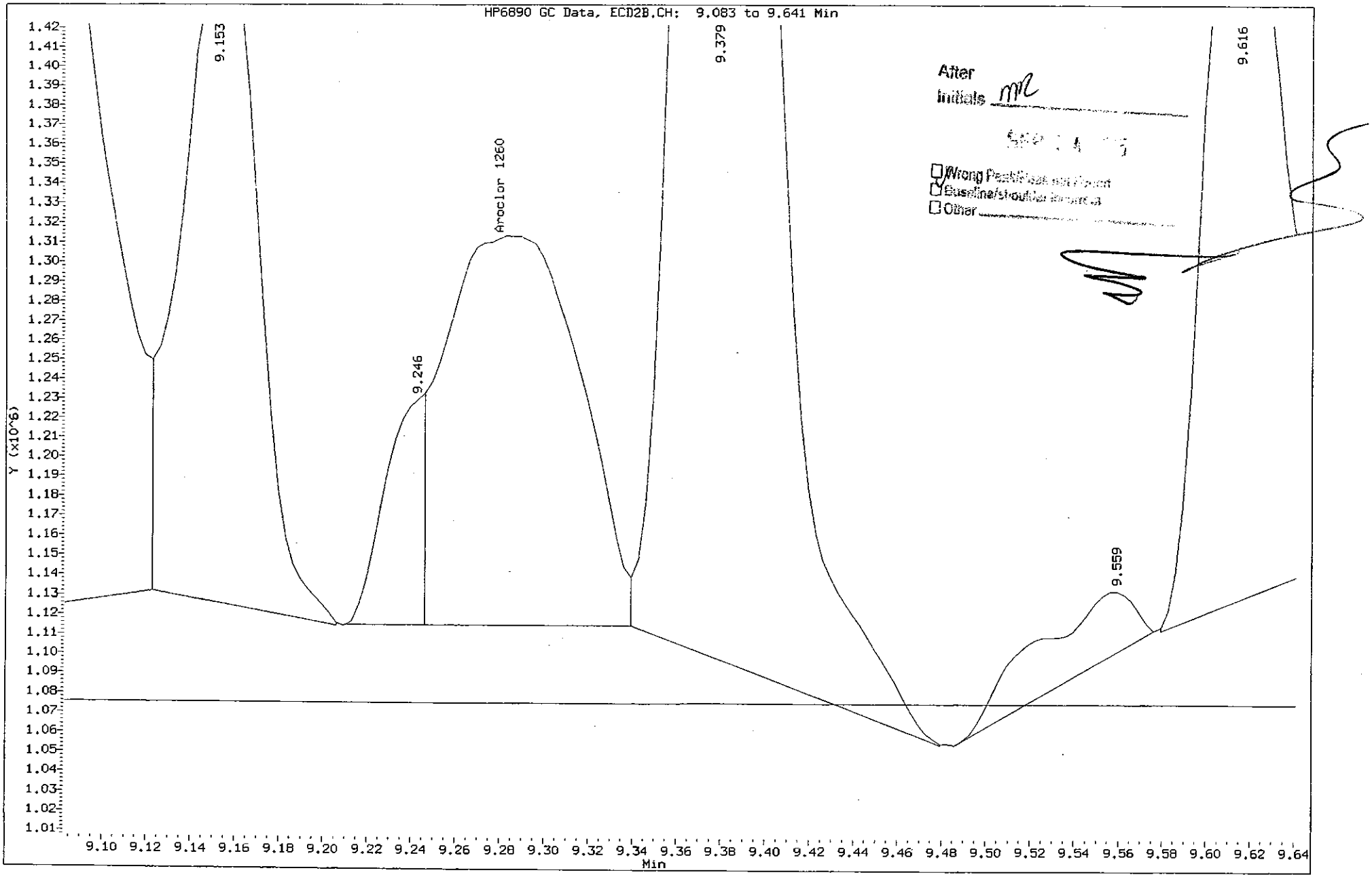
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklews002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



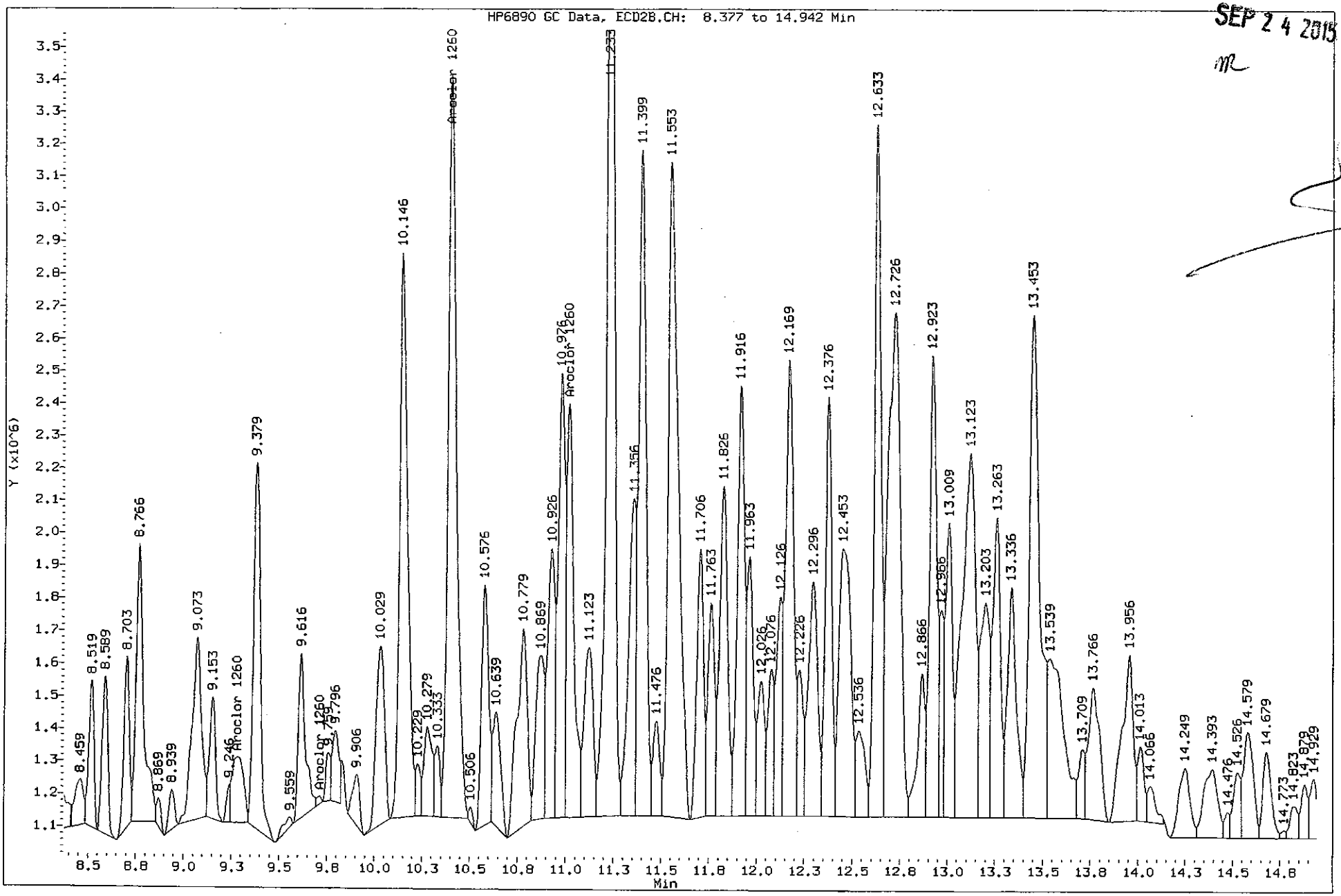
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:

Before

SEP 2 4 2015



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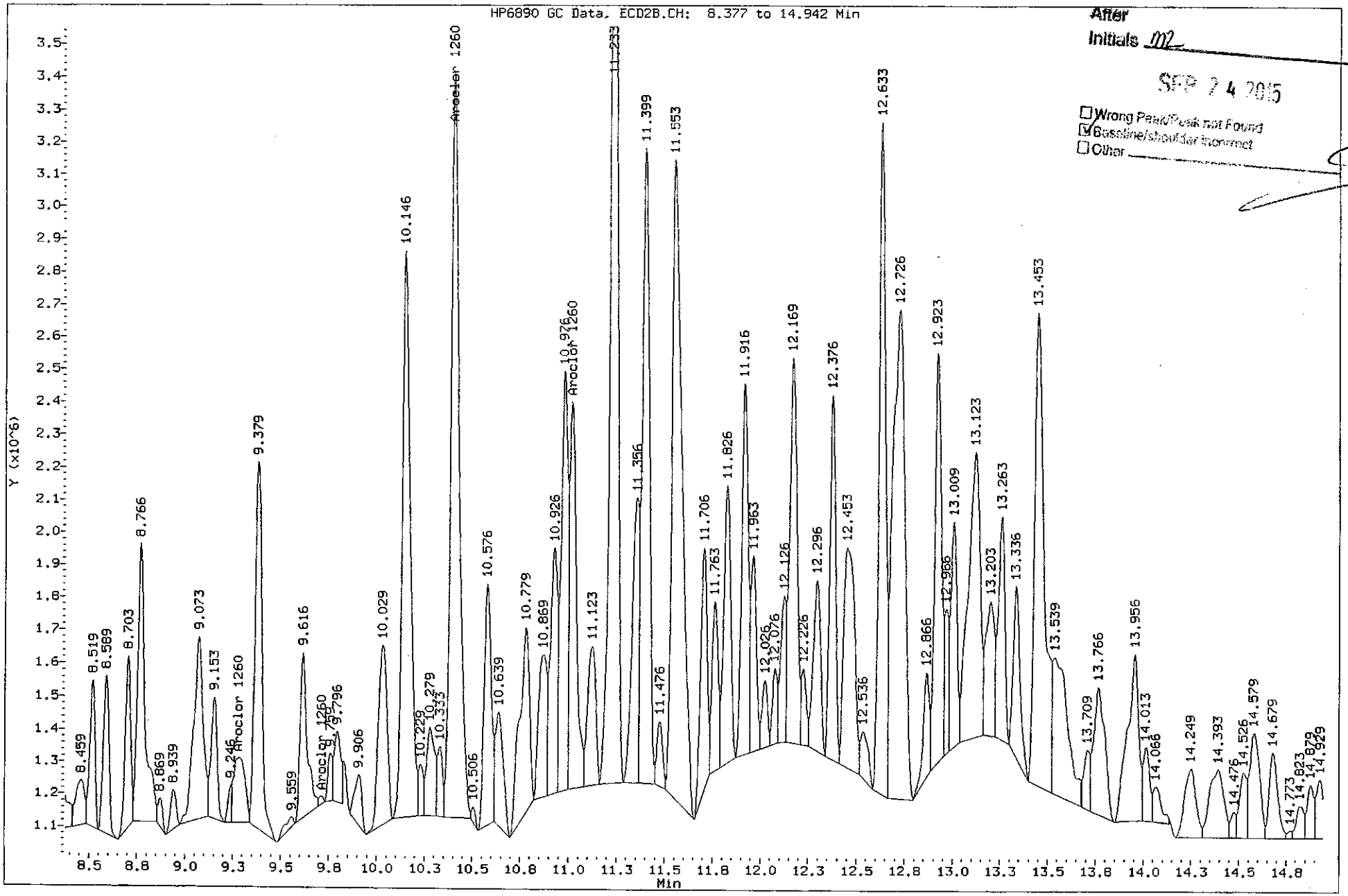
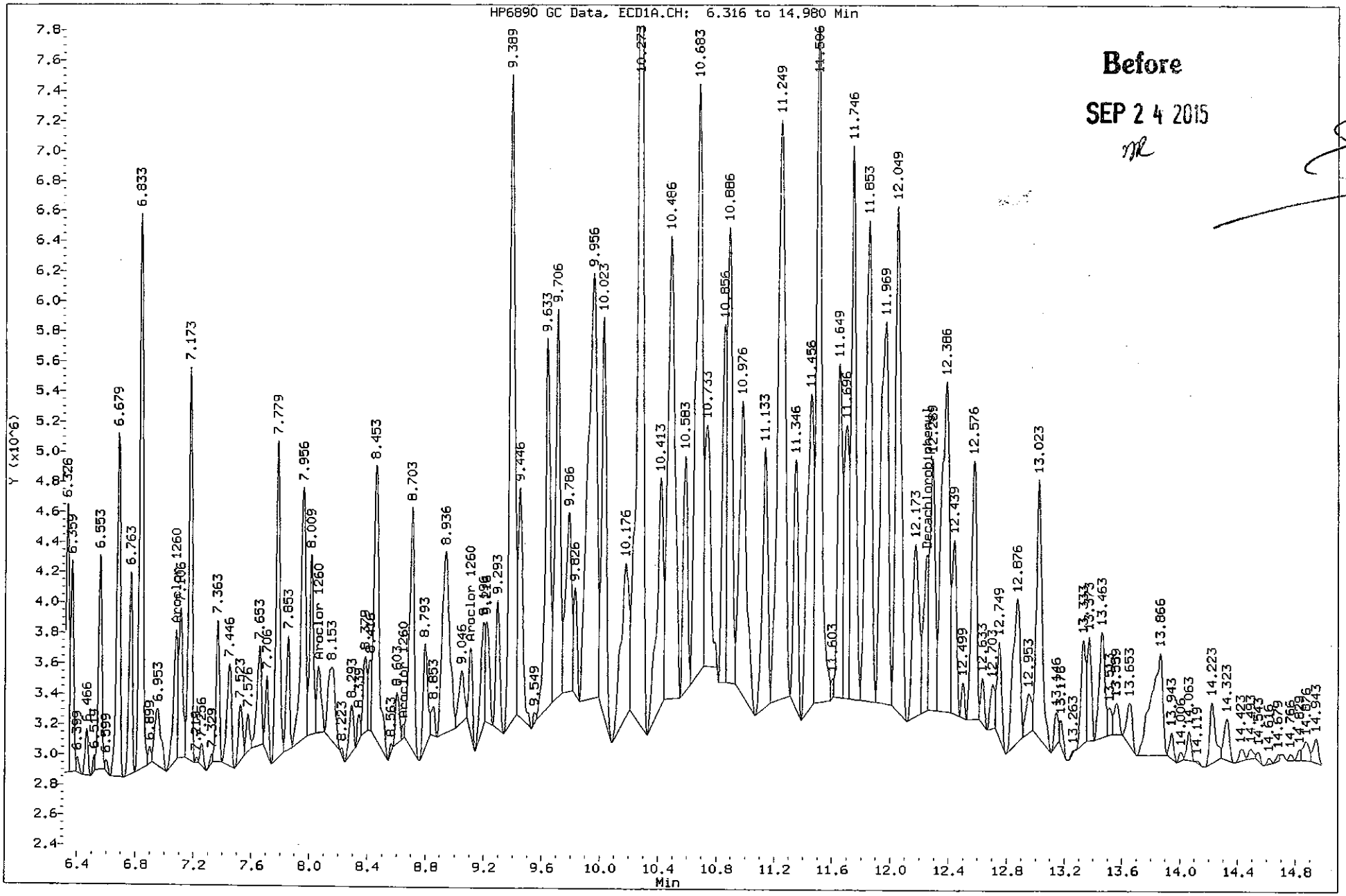
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:

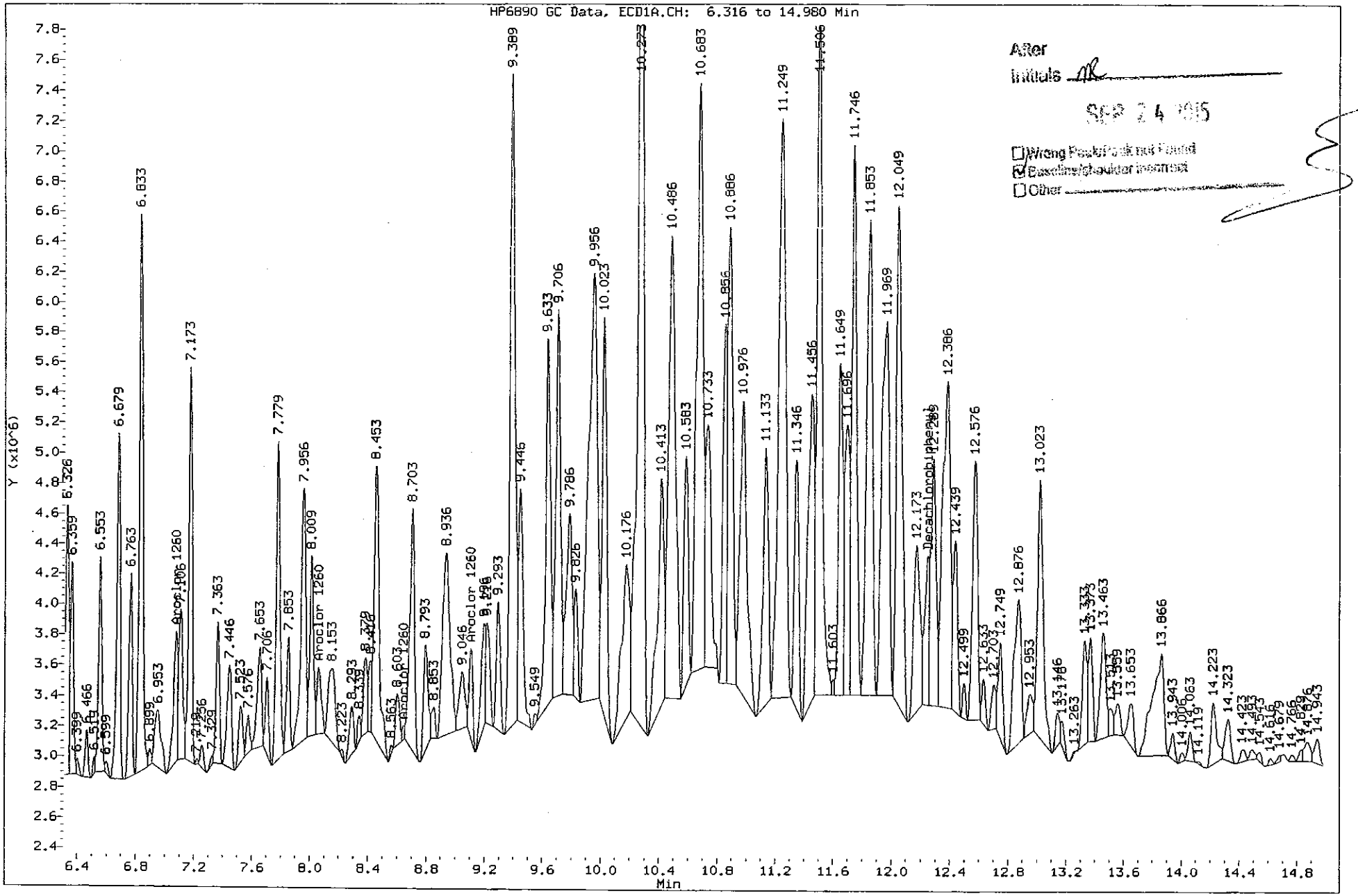


After
Initials M2
SEP 24 2015
☐ Wrong Peak/Peak not Found
☑ Baseline/shoulder incorrect
☐ Other

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F009.D
Injection Date: 23-SEP-2015 11:55
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F005.D
Lab ID: KWG1508974-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/23/2015 10:21
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TCU OK

Primary Review: XMR 09/24/15

Secondary Review: [signature]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F005.D
Lab ID: KWG1508974-3
RunType: LCS
Matrix: SOIL

Date Acquired: 09/23/2015 10:21
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ696

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV ok
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D			**Vial:**	26
Acqu Date:	09/23/2015 10:21	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8082A PCB LL	**Collect Date:**		**Receive Date:**	09/22/2015

Analysis Lot:	KWG1509187	**Prep Lot:**	KWG1508974	**Report Group:**	
Analysis Method:	8082A	**Prep Method:**	EPA 3541		
Prep Ref:	1468016	**Prep Date:**	09/18/2015		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:	J:\GC27\DATA\092315.B\0923F006.D	**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88 0.00	4.34	14872551	6761890	84.01	85.97			86 OK
				%Recovery =	84 OK	86 OK	Limits =	10-135	
Decachlorobiphenyl	12.26 0.00	13.62	13655477	7100285	86.35	86.22			86 OK
				%Recovery =	86 OK	86 OK	Limits =	43-148	

Target Compounds

Final Conc. Units: ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	742.11	752.75	148	151	**148**
Aroclor 1016 {1}	4.24 0.00	4.62	2982889m	1490661	831.13	810.97	166	162	
Aroclor 1016 {2}	4.74 0.00	4.95 0.00	2272858m	1856016	758.61	762.36	152	152	
Aroclor 1016 {3}	4.93 0.00	5.59 +0.00	7139667m	2155652	721.83	718.73	144	144	
Aroclor 1016 {4}	5.21 +0.00	5.92	3423273m	1596980	690.00	727.55	138	146	
Aroclor 1016 {5}	5.50 0.00	6.11 0.00	3670124m	1604416	709.01	744.16	142	149	
Aroclor 1221			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1221 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1221 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1232 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1232 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1242 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F005.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D			**Vial:**	26
Acqu Date:	09/23/2015 10:21	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	LCS			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1508974-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg Wet Weight

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1242 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1248 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1248 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1254 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1254 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclors, Total			14294512	6221875	1,612	1,678	322J	336J	**322J**
Aroclor 1260			0	0	870.07	925.74	174	185	**174**
Aroclor 1260 {1}	7.07 0.00	7.83 +0.00	6927021	1831566	703.21	830.31	141	166	
Aroclor 1260 {2}	8.09 +0.00	9.26 0.00	7420041	3691257	914.49	976.56	183	195	
Aroclor 1260 {3}	8.64 0.00	9.71 +0.00	7386921	3332318	897.45	923.38	179	185	
Aroclor 1260 {4}	9.10 0.00	10.39 +0.00	17176879	8345226	913.73	966.50	183	193	
Aroclor 1260 {5}	9.89 0.00	11.02 0.00	13072889	5205285	921.49	931.96	184	186	
Aroclor 1262			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1262 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1262 {5}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268			0	0	0.0000	0.0000	2.1U	2.1U	2.1U
Aroclor 1268 {1}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {2}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {3}			0d	0d	0.0000	0.0000	2.1U	2.1U	
Aroclor 1268 {4}			0d	0d	0.0000	0.0000	2.1U	2.1U	

The -/+ after Retention Time symbolize the direction of the RT shift

Prep Amount:	20.000 g	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D
Inj Date : 23-SEP-2015 10:21
Sample Info: KWG1508974-3 LCS
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.877	4.338	14872551	6761890	84.0	86.0		100.00(H)
Aroclor 1016	4.237	4.618	2982889	1490661	831	811	80.00- 120.00	100.00(MH)
	4.741	4.951	2272858	1856016	759	762	66.17- 99.26	76.20(MH)
	4.934	5.588	7139667	2155652	722	719	214.31- 321.46	239.35(MH)
	5.207	5.918	3423273	1596980	690	728	101.98- 152.97	114.76(MH)
	5.497	6.114	3670124	1604416	709	744	107.72- 161.59	123.04(MH)
		Average of Peak Amounts =			742	753		
Aroclor 1260	7.071	7.831	6927021	1831566	703	830	80.00- 120.00	100.00(H)
	8.091	9.264	7420041	3691257	914	977	70.24- 105.36	107.12(H)
	8.641	9.714	7386921	3332318	897	923	71.65- 107.48	106.64(H)
	9.104	10.391	17176879	8345226	914	967	165.26- 247.89	247.97(H)
	9.887	11.024	13072889	5205285	921	932	130.88- 196.31	188.72(H)
		Average of Peak Amounts =			870	926		
Decachlorobiphenyl	12.257	13.618	13655477	7100285	86.4	86.2		100.00
Aroclors, Total	0.000	0.000	14294512	6221875	1610	1680		0.00

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

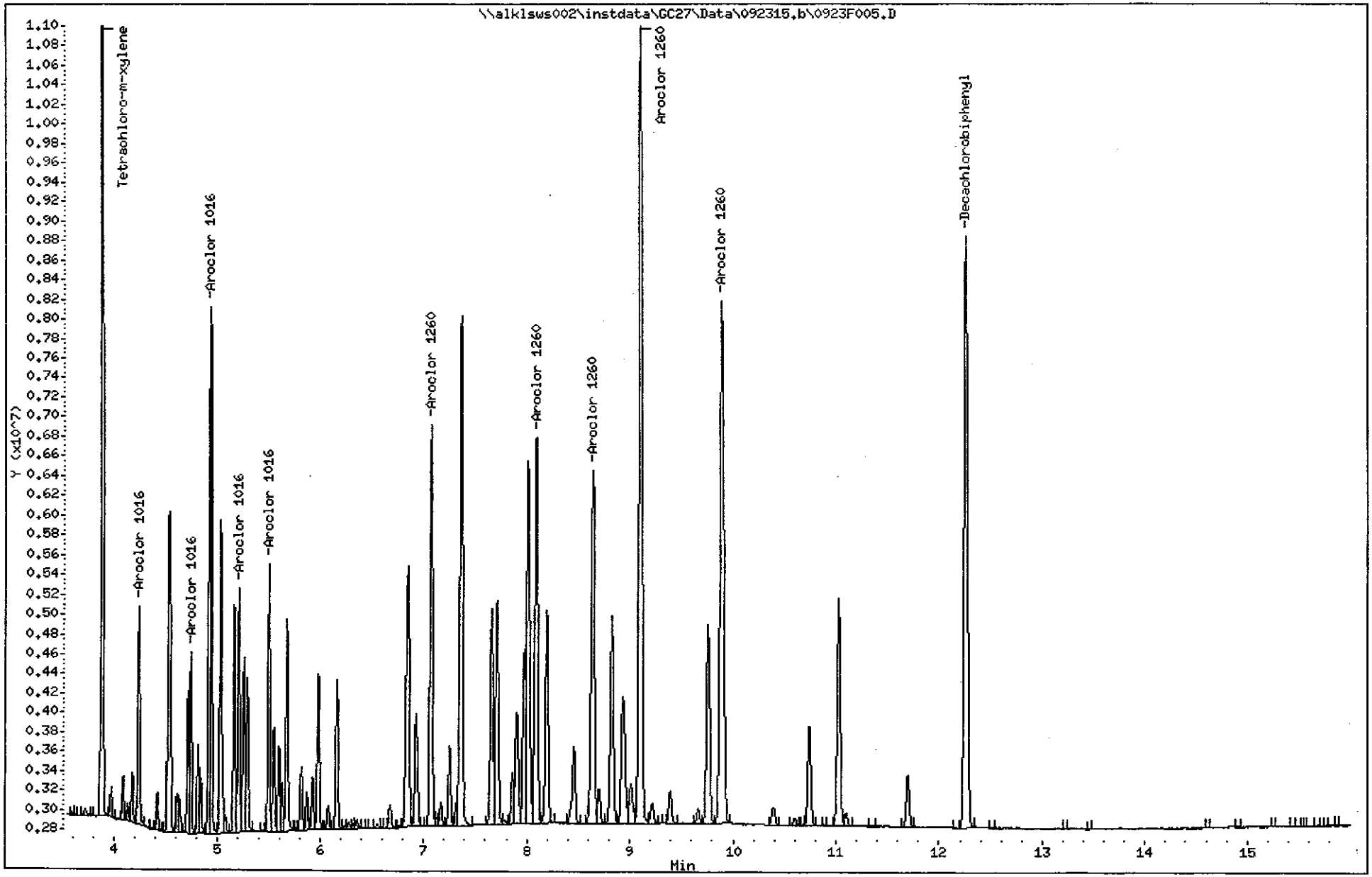
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Date : 23-SEP-2015 10:21
Client ID:
Sample Info: KWG1508974-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



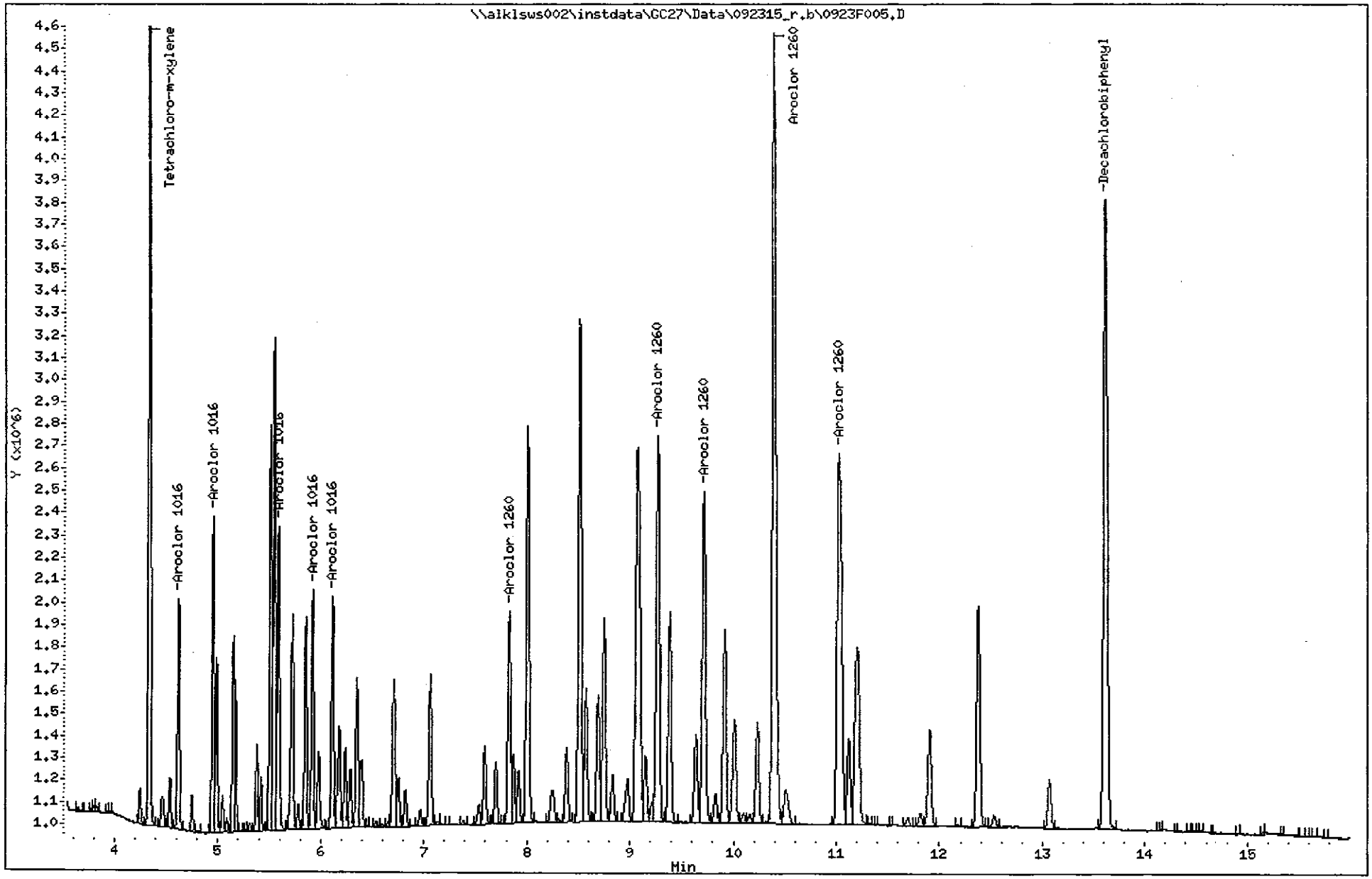
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F005.D
Date : 23-SEP-2015 10:21
Client ID:
Sample Info: KWG1508974-3 LCS

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32

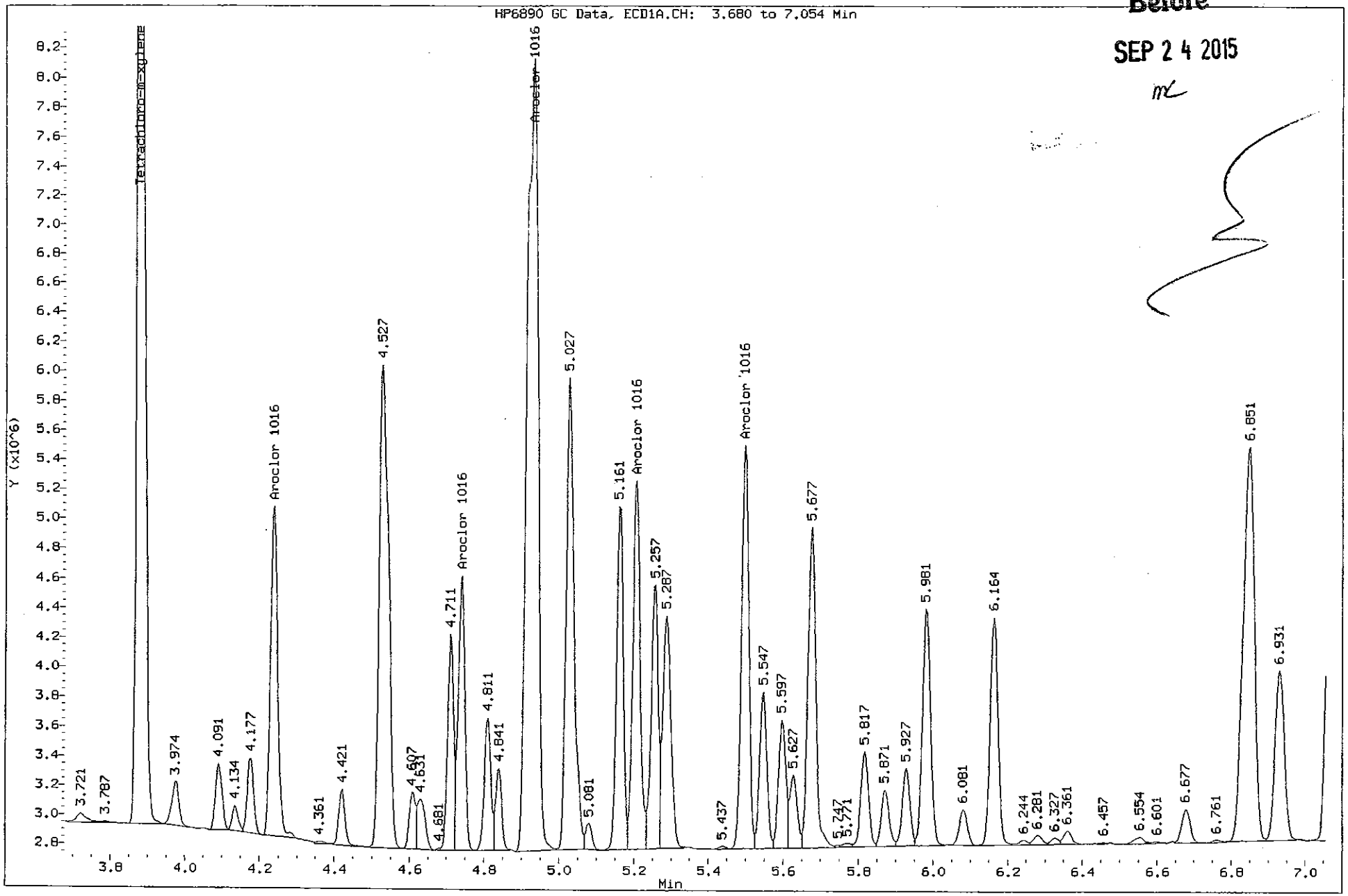


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Injection Date: 23-SEP-2015 10:21
Instrument: GC27.i
Client Sample ID:

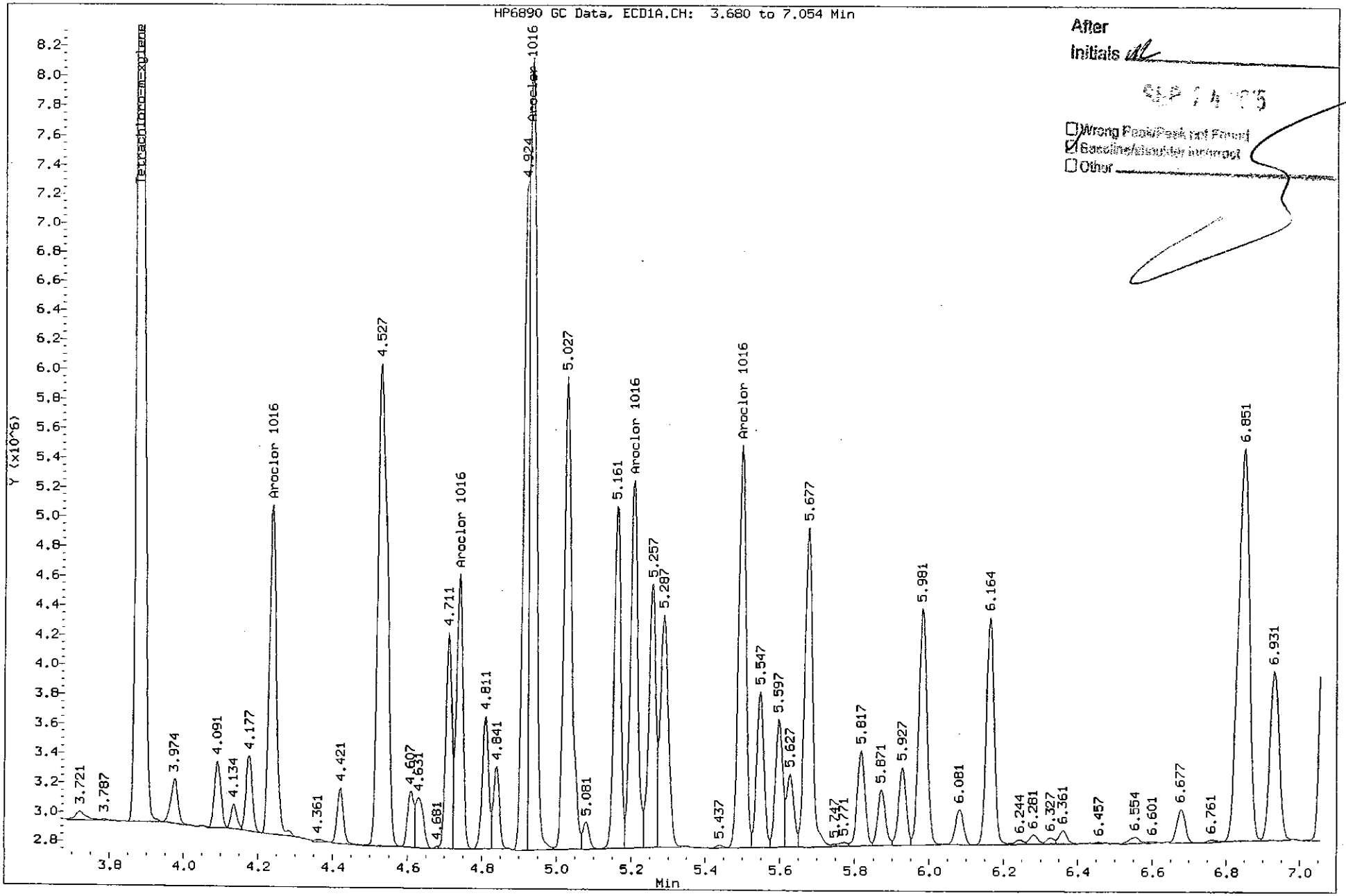
Before

SEP 2 4 2015

mc



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F005.D
Injection Date: 23-SEP-2015 10:21
Instrument: GC27.i
Client Sample ID:



Injection Log

Directory: J:\GC27\Data\092315

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	0923F001.D	1.	PRIMER		09/23/22015 8:46:5
2	100	0923F002.D	1.	PRIMER		09/23/22015 9:10:2
3	95	0923F003.D	1.	1660 @ 500ppb PCB6-74E ok		09/23/22015 9:34:0
4	99	0923F004.D	1.	IB		09/23/22015 9:57:3
5	26	0923F005.D	1.	KWG1508974-3 LCS		09/23/22015 10:21:1
6	27	0923F006.D	1.	KWG1508974-4 MB		09/23/22015 10:44:4
7	28	0923F007.D	1.	K1509213-003 100X		09/23/22015 11:08:2
8	29	0923F008.D	1.	K1509213-003 MS 100X		09/23/22015 11:32:0
9	30	0923F009.D	1.	K1509213-003 DMS 100X		09/23/22015 11:55:5
10	31	0923F010.D	1.	K1510240-001 50X		09/23/22015 12:19:3
11	95	0923F011.D	1.	1660 @ 500ppb PCB6-74E ok		09/23/22015 12:43:2
12	99	0923F012.D	1.	IB		09/23/22015 1:07:1
13	46	0923F013.D	1.	K1508844-047 5X		09/23/22015 1:30:4
14	47	0923F014.D	1.	K1508844-049 5X	Run # 463102	09/23/22015 1:54:1
15	48	0923F015.D	1.	K1508844-055 5X	Cal # 13624	09/23/22015 2:17:5
16	95	0923F016.D	1.	1660 @ 500ppb PCB6-74E ok		09/23/22015 2:41:2
17	99	0923F017.D	1.	IB	KWG 1509187	09/23/22015 3:04:5
18	1	0923F018.D	1.	KWG1508447-3 LCS		09/23/22015 3:28:3
19	2	0923F019.D	1.	KWG1508447-4 MB		09/23/22015 3:52:2
20	3	0923F020.D	1.	K1509611-001		09/23/22015 4:16:0
21	4	0923F021.D	1.	K1509611-001 MS		09/23/22015 4:39:3
22	5	0923F022.D	1.	K1509611-001 DMS		09/23/22015 5:03:0
23	6	0923F023.D	1.	K1509611-003		09/23/22015 5:26:3
24	7	0923F024.D	1.	K1509611-005 — PCT		09/23/22015 5:50:0
25	8	0923F025.D	1.	K1509611-006		09/23/22015 6:13:2
26	9	0923F026.D	1.	K1509611-007 — INR Carryover		09/23/22015 6:36:5
27	10	0923F027.D	1.	K1509611-009		09/23/22015 7:00:3
28	95	0923F028.D	1.	1660 @ 500ppb PCB6-74E ok		09/23/22015 7:24:1
29	99	0923F029.D	1.	IB		09/23/22015 7:47:5
30	11	0923F030.D	1.	K1509611-010		09/23/22015 8:11:3
31	12	0923F031.D	1.	K1509611-011		09/23/22015 8:35:1
32	13	0923F032.D	1.	K1509611-012		09/23/22015 8:59:0
33	14	0923F033.D	1.	K1509611-013		09/23/22015 9:22:2
34	15	0923F034.D	1.	K1509611-014		09/23/22015 9:45:5
35	16	0923F035.D	1.	K1509611-015		09/23/22015 10:09:2
36	17	0923F036.D	1.	K1509611-016		09/23/22015 10:32:5
37	18	0923F037.D	1.	K1509611-017 — PCT		09/23/22015 10:56:2
38	19	0923F038.D	1.	K1509611-018		09/23/22015 11:20:0
39	20	0923F039.D	1.	K1509611-019		09/23/22015 11:43:3
40	94	0923F040.D	1.	1660 @ 500ppb PCB6-74E ok		09/24/22015 12:07:0
41	98	0923F041.D	1.	IB		09/24/22015 12:30:4
42	21	0923F042.D	1.	K1509611-002 100X — PCT		09/24/22015 12:54:1
43	22	0923F043.D	1.	K1509611-004 100X — PCT		09/24/22015 1:17:4
44	23	0923F044.D	1.	K1509611-008 10X — INR Carryover		09/24/22015 1:41:2
45	94	0923F045.D	1.	1660 @ 500ppb PCB6-74E ok		09/24/22015 2:04:5
46	98	0923F046.D	1.	IB		09/24/22015 2:28:2
47	36	0923F047.D	1.	KWG1508614-1 LCS		09/24/22015 2:51:5
48	37	0923F049.D	1.	KWG1508614-2 DLCS		09/24/22015 3:15:2
49	38	0923F051.D	1.	KWG1508614-3 MB		09/24/22015 3:38:5
50	39	0923F053.D	1.	K1508827-008		09/24/22015 4:02:3
51	40	0923F055.D	1.	K1508936-001		09/24/22015 4:26:0
52	41	0923F057.D	1.	K1509248-001		09/24/22015 4:49:4
53	94	0923F059.D	1.	1660 @ 500ppb PCB6-74E ok		09/24/22015 5:13:2
54	98	0923F060.D	1.	IB		09/24/22015 5:36:5
55	51	0923F061.D	1.	KWG1508804-3 LCS		09/24/22015 6:00:3

Injection Log

Directory: J:\GC27\Data\092315

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
56	52	0923F062.D	1.	KWG1508804-4 MB		09/24/22015 6:24:1
57	53	0923F063.D	1.	K1509548-001		09/24/22015 6:47:4
58	54	0923F064.D	1.	K1509548-005		09/24/22015 7:11:2
59	55	0923F065.D	1.	K1509548-009		09/24/22015 7:35:0
60	56	0923F066.D	1.	K1509548-009 MS		09/24/22015 7:58:4
61	57	0923F067.D	1.	K1509548-009 DMS		09/24/22015 8:22:1
62	58	0923F068.D	1.	K1509548-013		09/24/22015 8:45:5
63	59	0923F069.D	1.	K1509548-014		09/24/22015 9:09:4
64	60	0923F070.D	1.	K1509548-015		09/24/22015 9:33:2
65	61	0923F071.D	1.	K1509548-016		09/24/22015 9:57:0
66	62	0923F072.D	1.	K1509548-017		09/24/22015 10:20:4
67	94	0923F073.D	1.	1660 @ 500ppb PCB6-74E		09/24/22015 10:44:2
68	97	0923F074.D	1.	IB		09/24/22015 11:08:1
69	63	0923F075.D	1.	K1509548-019		09/24/22015 11:31:5
70	94	0923F076.D	1.	1660 @ 500ppb PCB6-74E		09/24/22015 11:55:3
71	97	0923F077.D	1.	IB		09/24/22015 12:19:2

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F003.D
Lab ID: KWG1509187-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:34
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: MC 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F003.D
Lab ID: KWG1509187-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:34
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: MMR 09/24/15

Secondary Review: [signature]

Printed: 09/24/2015 14:37:55
u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F003.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D			**Vial:**	95
Acqu Date:	09/23/2015 09:34	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-1				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	8721039	3778196	49.27	48.04			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.62	8113502	4124149	51.31	50.08			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	434.43	424.30			
Aroclor 1016 {1}	4.24	4.62	1650505m	797378	459.88	433.80			
Aroclor 1016 {2}	4.74	4.95	1322500m	1056854	441.41	434.10			
Aroclor 1016 {3}	4.94	5.59	4265633m	1234243	431.26	411.52			
Aroclor 1016 {4}	5.21	5.92	2072072m	926440	417.65	422.07			
Aroclor 1016 {5}	5.50	6.12	2184129m	905515	421.94	420.00			
Aroclor 1260			0	0	479.26	486.99			
Aroclor 1260 {1}	7.07	7.83	4327021	1025564	439.26	464.92			
Aroclor 1260 {2}	8.09	9.27	3897069	1853503	480.30	490.37			
Aroclor 1260 {3}	8.64	9.71	3974928	1760703	482.92	487.89			
Aroclor 1260 {4}	9.11	10.39	9215481	4252420	490.22	492.49			
Aroclor 1260 {5}	9.89	11.03	7144675	2788673	503.62	499.29			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D
Inj Date : 23-SEP-2015 09:34
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.878	4.338	8721039	3778196	49.3	48.0		100.00
Aroclor 1016	4.238	4.618	1650505	797378	460	434	80.00- 120.00	100.00(M)
	4.742	4.952	1322500	1056854	441	434	66.17- 99.26	80.13(M)
	4.935	5.585	4265633	1234243	431	412	214.31- 321.46	258.44(M)
	5.205	5.918	2072072	926440	418	422	101.98- 152.97	125.54(M)
	5.498	6.115	2184129	905515	422	420	107.72- 161.59	132.33(M)
		Average of Peak Amounts =			434	424		
Aroclor 1260	7.072	7.828	4327021	1025564	439	465	80.00- 120.00	100.00
	8.088	9.265	3897069	1853503	480	490	70.24- 105.36	90.06
	8.642	9.712	3974928	1760703	483	488	71.65- 107.48	91.86
	9.105	10.388	9215481	4252420	490	492	165.26- 247.89	212.98
	9.888	11.025	7144675	2788673	504	499	130.88- 196.31	165.12
		Average of Peak Amounts =			479	487		
Decachlorobiphenyl	12.258	13.618	8113502	4124149	51.3	50.1		100.00

QC Flag Legend

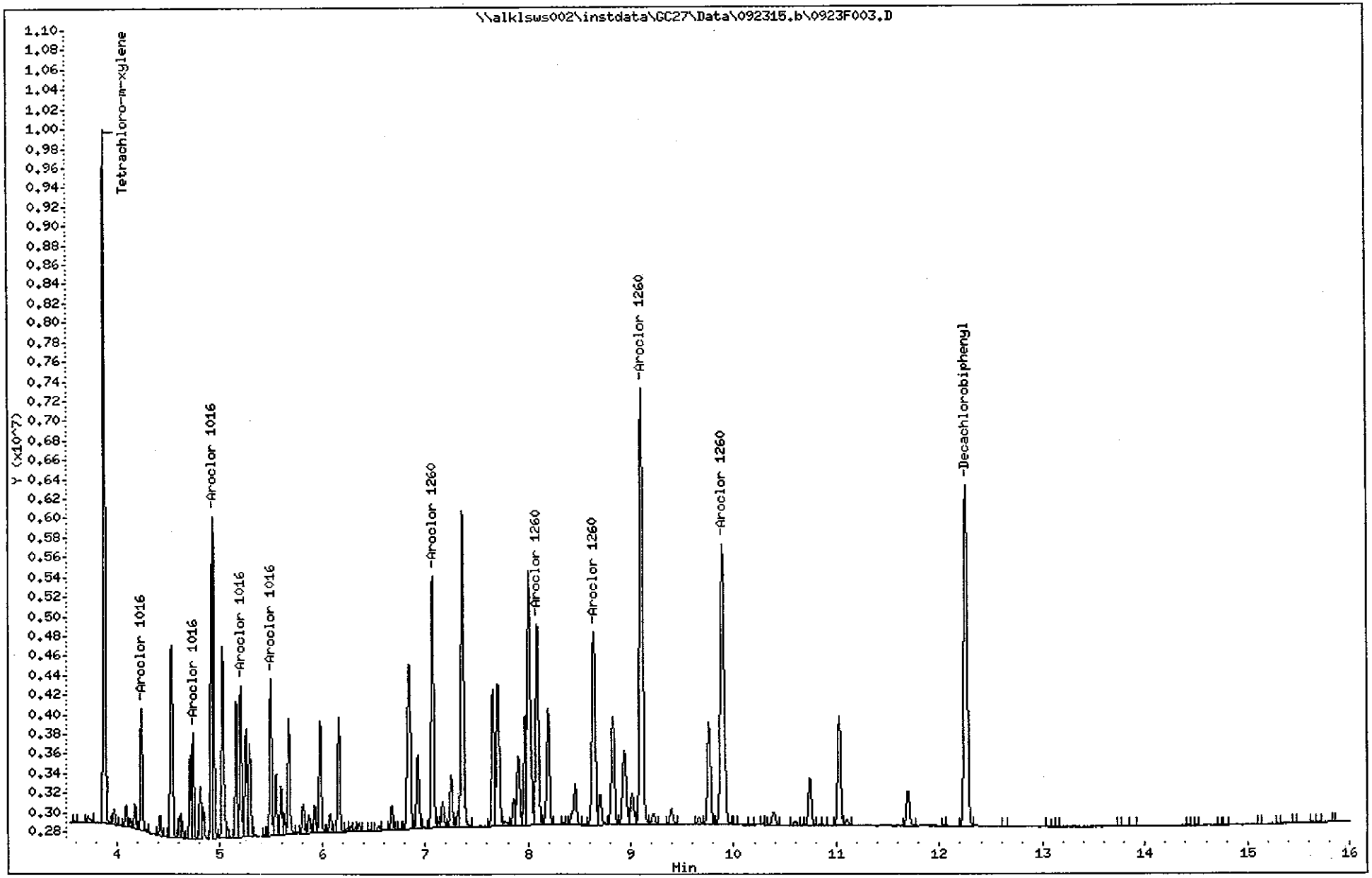
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Date : 23-SEP-2015 09:34
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Column phase: DB-35MS

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

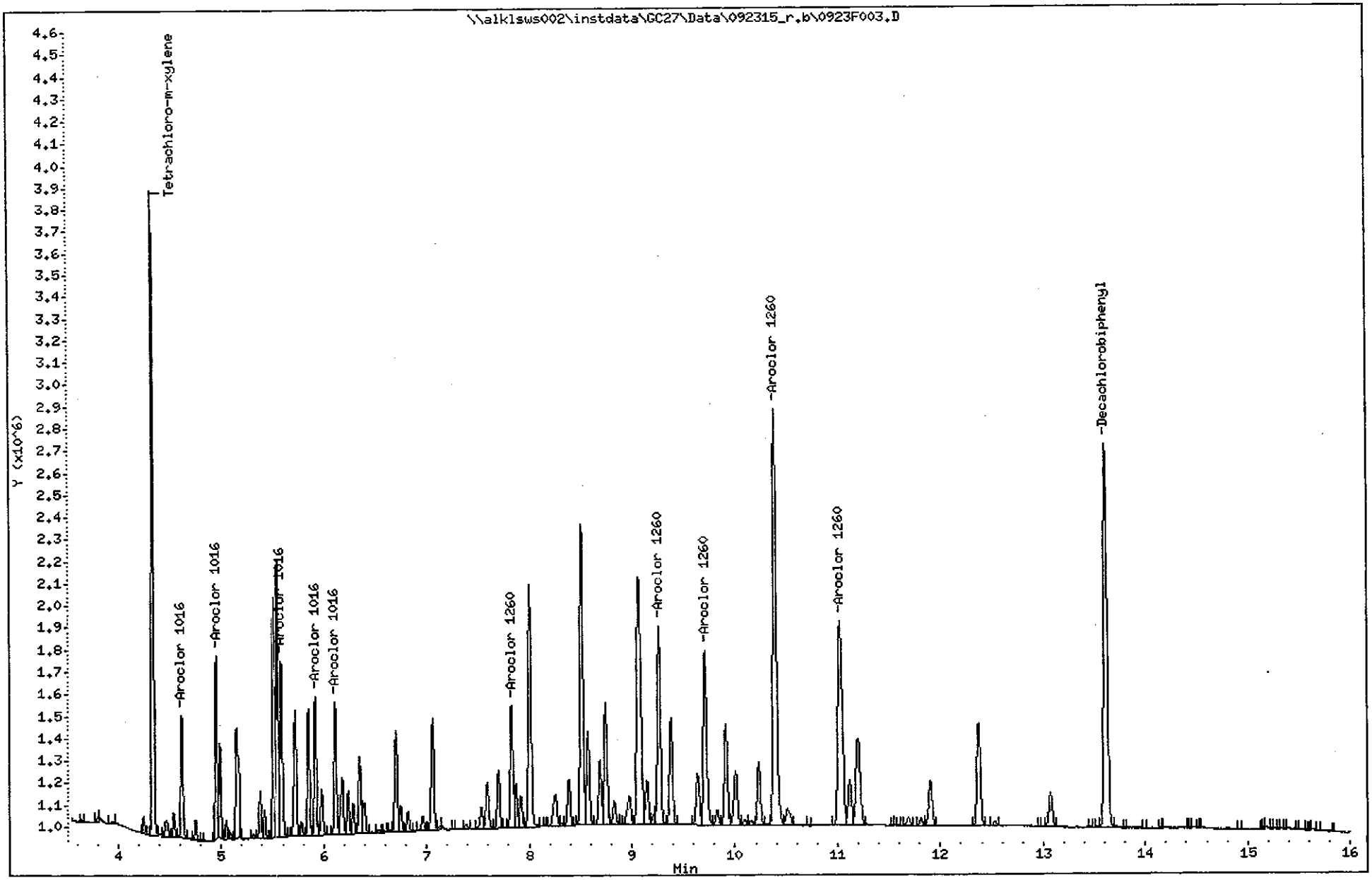


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F003.D
Date : 23-SEP-2015 09:34
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

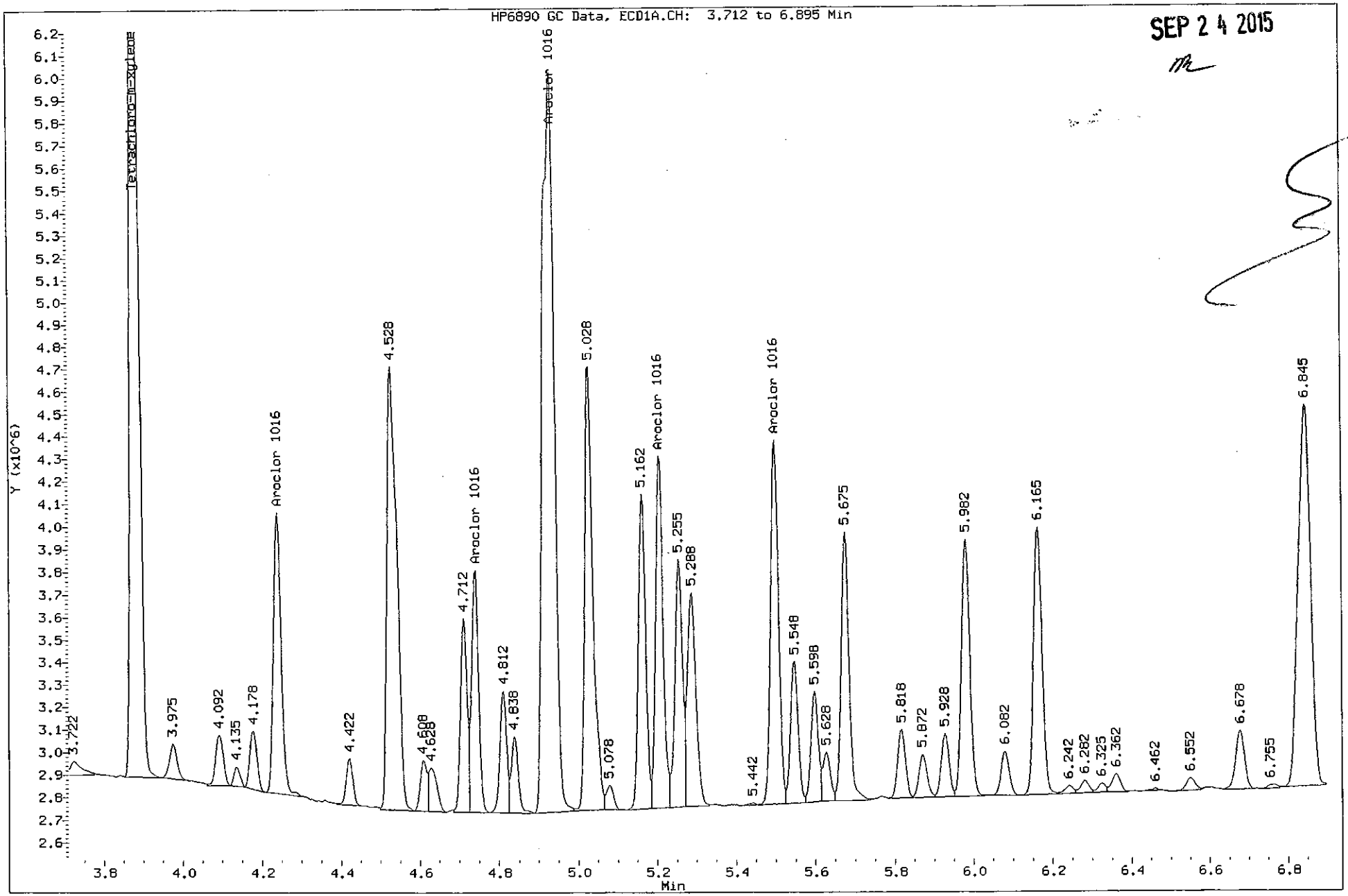
Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Injection Date: 23-SEP-2015 09:34
Instrument: GC27.i
Client Sample ID:

Before

SEP 2 4 2015

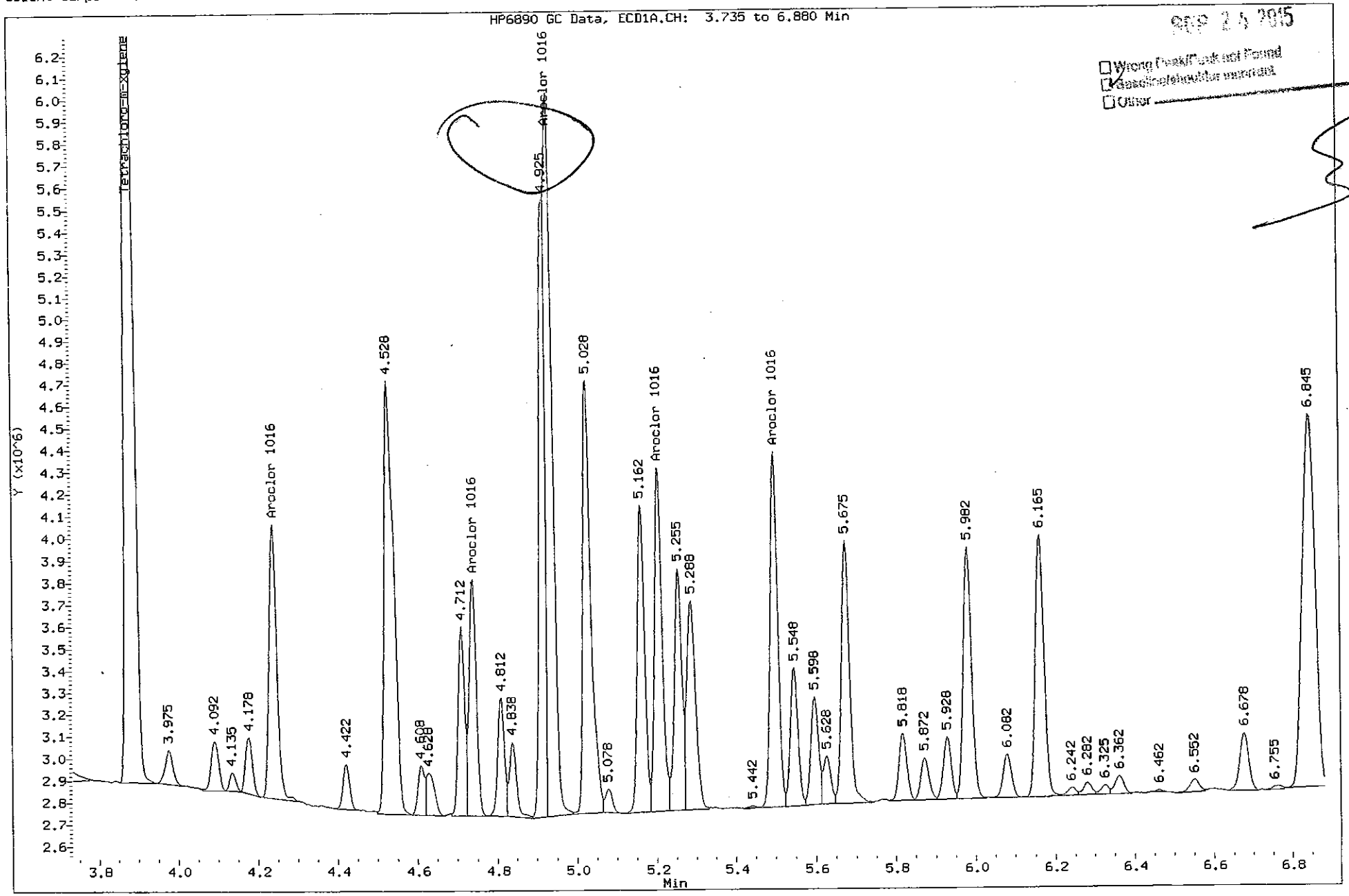


Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F003.D
Injection Date: 23-SEP-2015 09:34
Instrument: GC27.i
Client Sample ID:

After
Initials

SEP 25 2015

☐ Wrong Peak/Peak not Found
☑ Baseline/shoulder integrated
☐ Other



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F004.D
Lab ID: KWG1509187-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:57
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	ICV OK

Primary Review: mR 09/24/15

Secondary Review: _____

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F004.D
Lab ID: KWG1509187-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 09:57
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	ICV OK
	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: JMR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.24	13.60	24657	4112	0.1560	0.0500			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ696
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	0.00		0	0		0.0000			NA
			%Recovery =		NA	NA	Limits =	10-135	
Decachlorobiphenyl	12.24	13.60	24657	4112	0.1560	0.0500			NA
			%Recovery =		NA	NA	Limits =	43-148	

Target Compounds

Final Conc. Units:

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0d	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F004.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D			**Vial:**	99
Acqu Date:	09/23/2015 09:57	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-2				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:**

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0d	0	0.0000	0.0000			
Aroclor 1242 {3}			0d	0	0.0000	0.0000			
Aroclor 1242 {4}			0d	0	0.0000	0.0000			
Aroclor 1242 {5}			0d	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0	0d	0.0000	0.0000			
Aroclor 1248 {2}			0	0d	0.0000	0.0000			
Aroclor 1248 {3}			0	0d	0.0000	0.0000			
Aroclor 1248 {4}			0	0d	0.0000	0.0000			
Aroclor 1248 {5}			0	0d	0.0000	0.0000			
Aroclor 1254			0	0	0.0000	0.0000			
Aroclor 1254 {1}			0d	0	0.0000	0.0000			
Aroclor 1254 {2}			0d	0	0.0000	0.0000			
Aroclor 1254 {3}			0d	0	0.0000	0.0000			
Aroclor 1254 {4}			0d	0	0.0000	0.0000			
Aroclor 1254 {5}			0d	0	0.0000	0.0000			
Aroclors, Total			0	0	0.0000	0.0000	J	J	
Aroclor 1260			0	0	0.0000	0.0000			
Aroclor 1260 {1}			0d	0	0.0000	0.0000			
Aroclor 1260 {2}			0d	0	0.0000	0.0000			
Aroclor 1260 {3}			0d	0	0.0000	0.0000			
Aroclor 1260 {4}			0d	0	0.0000	0.0000			
Aroclor 1260 {5}			0d	0	0.0000	0.0000			
Aroclor 1262			0	0	0.0000	0.0000			
Aroclor 1262 {1}			0	0d	0.0000	0.0000			
Aroclor 1262 {2}			0	0d	0.0000	0.0000			
Aroclor 1262 {3}			0	0d	0.0000	0.0000			
Aroclor 1262 {4}			0	0d	0.0000	0.0000			
Aroclor 1262 {5}			0	0d	0.0000	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Resul: >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D
Inj Date : 23-SEP-2015 09:57
Sample Info: IB
Misc Info :
Cal Date : 23-SEP-2015 12:53
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Decachlorobiphenyl	12.239	13.599	24657	4112	0.156	0.0499		100.00

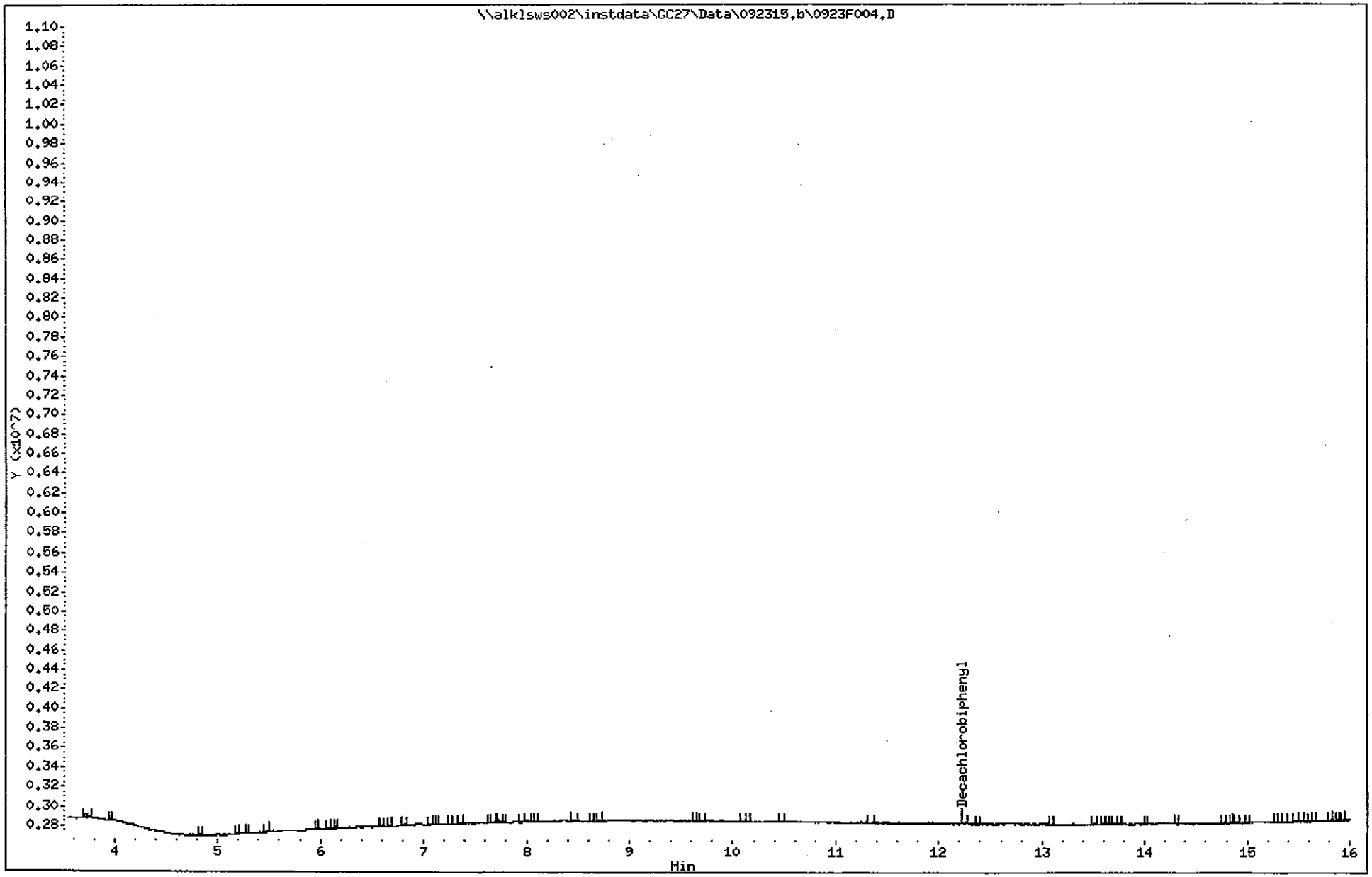
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F004.D
Date : 23-SEP-2015 09:57
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32



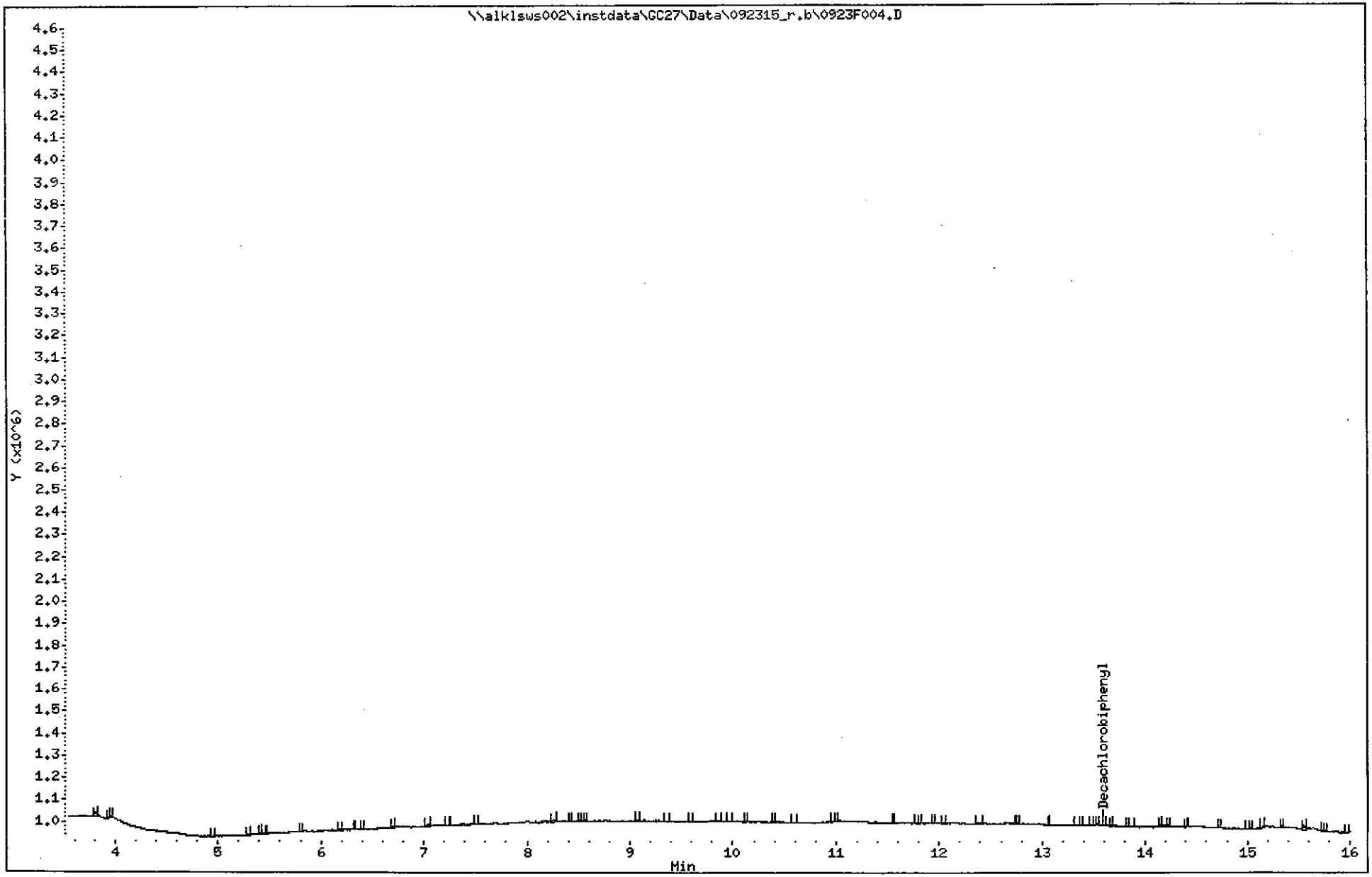
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F004.D
Date : 23-SEP-2015 09:57
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-XLB

Column diameter: 0.32



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F011.D
Lab ID: KWG1509187-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 12:43
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	[illegible]

Primary Review: [illegible] 09/24/15

Secondary Review: [illegible]

Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F011.D
Lab ID: KWG1509187-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 12:43
Date Quantitated: 09/24/2015 13:26
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1260	22.7	NA	20	ICV Dual

Primary Review: mmR 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F011.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D			**Vial:**	95
Acqu Date:	09/23/2015 12:43	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	CCV			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-3				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**
Analysis Method:	8082A	**Prep Method:**		
Prep Ref:		**Prep Date:**		

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.88	4.34	8680870	3863079	49.04	49.11			NA
				%Recovery =	NA	NA	Limits =	33-120	
Decachlorobiphenyl	12.26	13.62	7954472	4095719	50.30	49.74			NA
				%Recovery =	NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	425.93	435.14			
Aroclor 1016 {1}	4.24	4.62	1639643m	820507	456.86	446.39			
Aroclor 1016 {2}	4.74	4.96	1295943m	1091758	432.55	448.44			
Aroclor 1016 {3}	4.94	5.59	4076825m	1247797	412.17	416.04			
Aroclor 1016 {4}	5.21	5.92	2053074m	949712	413.82	432.67			
Aroclor 1016 {5}	5.50	6.12	2144424m	931709	414.27	432.15			
Aroclor 1260			0	0	467.33	488.60			
Aroclor 1260 {1}	7.08	7.83	4226081	1017836	429.02	461.42			
Aroclor 1260 {2}	8.10	9.27	3799879	1860950	468.32	492.34			
Aroclor 1260 {3}	8.65	9.72	3851899	1771318	467.98	490.83			
Aroclor 1260 {4}	9.11	10.40	8971669	4259897	477.25	493.36			
Aroclor 1260 {5}	9.90	11.03	7009628	2820969	494.10	505.07			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D
Inj Date : 23-SEP-2015 12:43
Sample Info: 1660 @ 500ppb PCB6-74E
Misc Info :
Cal Date : 24-SEP-2015 07:33
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.882	4.339	8680870	3863079	49.0	49.1		100.00
Aroclor 1016	4.238	4.622	1639643	820507	457	446	80.00- 120.00	100.00(M)
	4.742	4.955	1295943	1091758	433	448	66.17- 99.26	79.04(M)
	4.938	5.589	4076825	1247797	412	416	214.31- 321.46	248.64(M)
	5.208	5.922	2053074	949712	414	433	101.98- 152.97	125.21(M)
	5.502	6.119	2144424	931709	414	432	107.72- 161.59	130.79(M)
		Average of Peak Amounts =			426	435		
Aroclor 1260	7.075	7.832	4226081	1017836	429	461	80.00- 120.00	100.00
	8.095	9.269	3799879	1860950	468	492	70.24- 105.36	89.91
	8.645	9.719	3851899	1771318	468	491	71.65- 107.48	91.15
	9.108	10.395	8971669	4259897	477	493	165.26- 247.89	212.29
	9.895	11.029	7009628	2820969	494	505	130.88- 196.31	165.87
		Average of Peak Amounts =			467	488		
Decachlorobiphenyl	12.262	13.622	7954472	4095719	50.3	49.7		100.00

QC Flag Legend

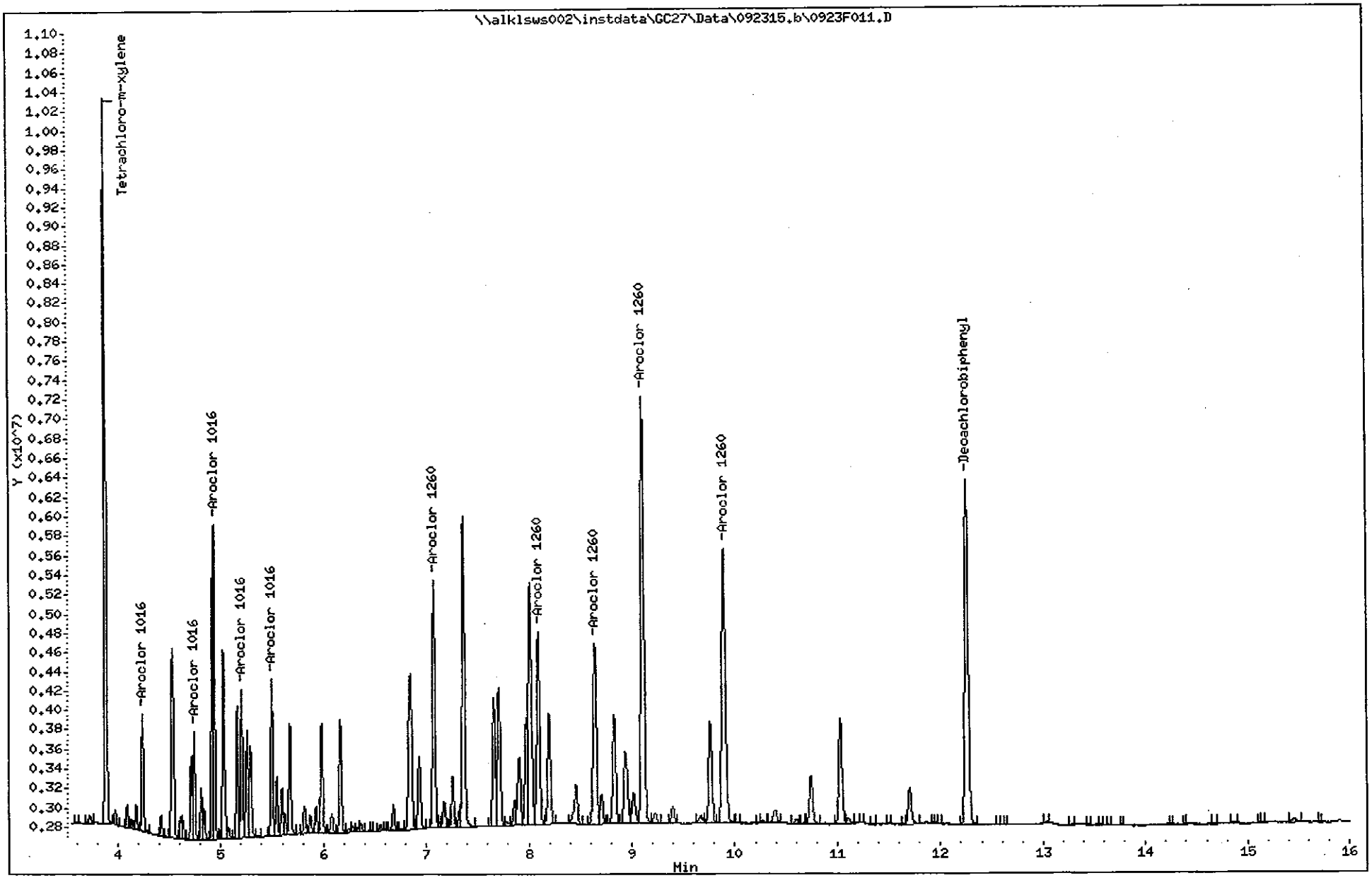
M - Compound response manually integrated.

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Date : 23-SEP-2015 12:43
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

Operator: HR
Column diameter: 0.32

Column phase: DB-35MS



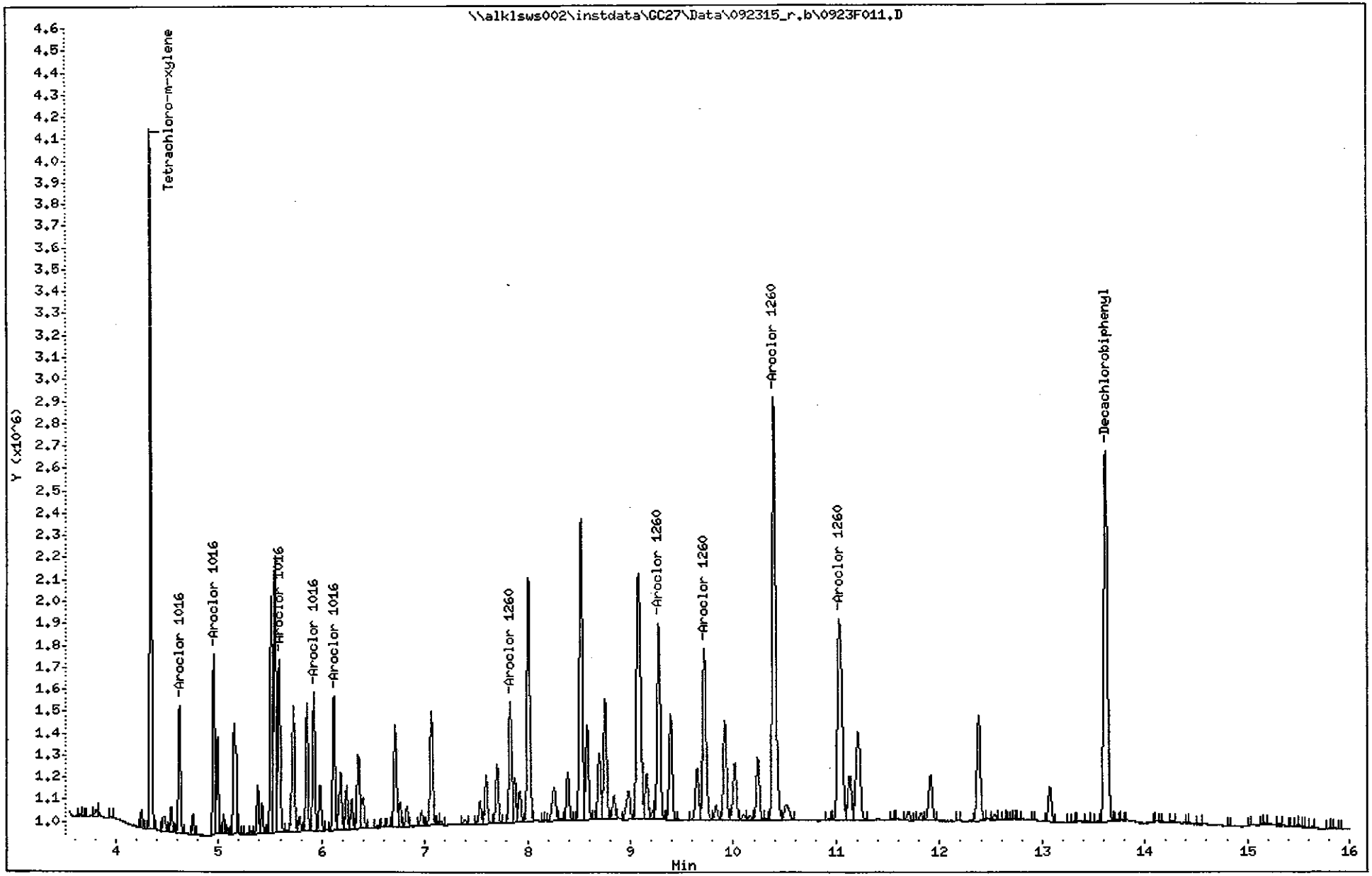
Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F011.D
Date : 23-SEP-2015 12:43
Client ID:
Sample Info: 1660 @ 500ppb PCB6-74E

Instrument: GC27.i

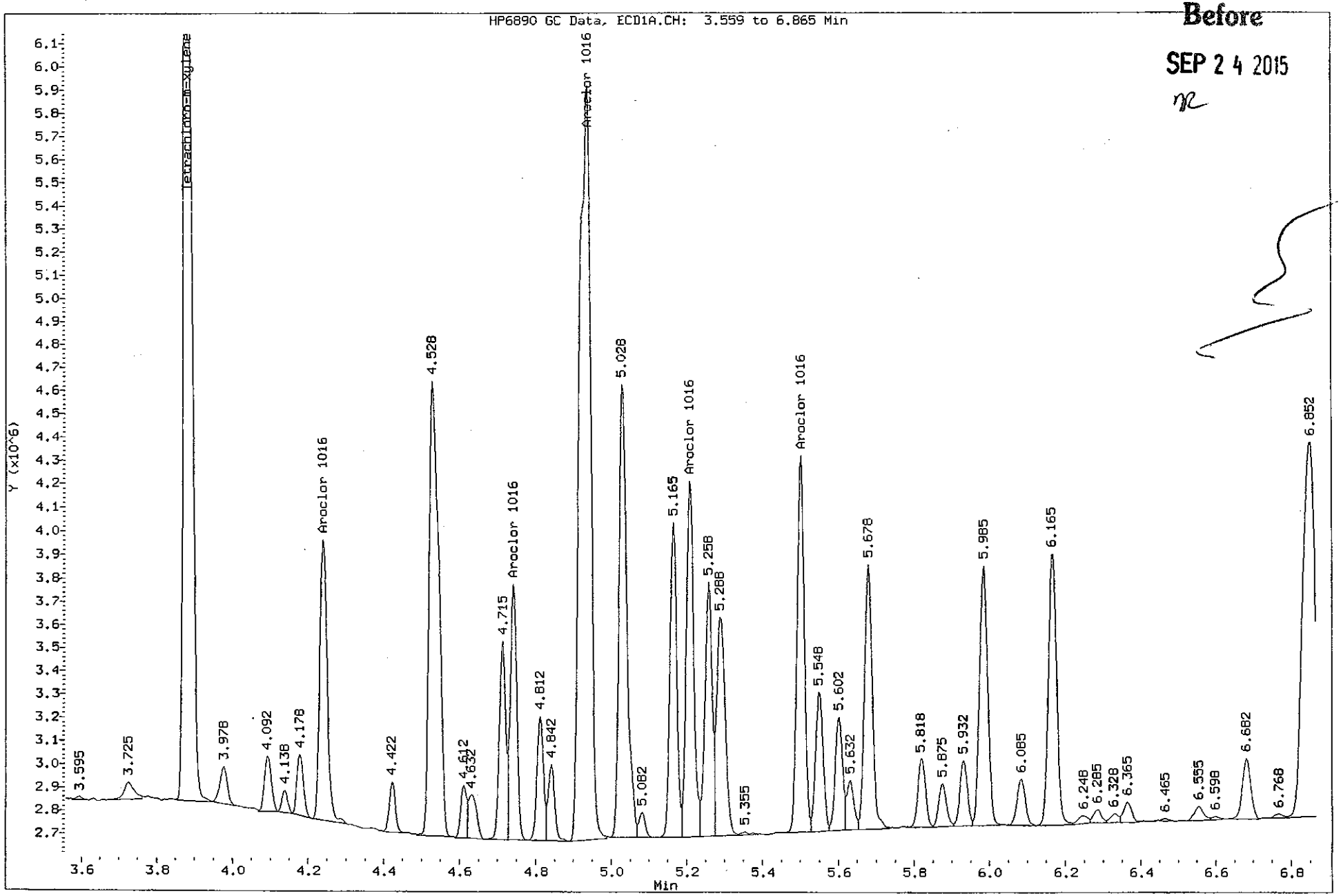
Operator: MR

Column phase: DB-XLB

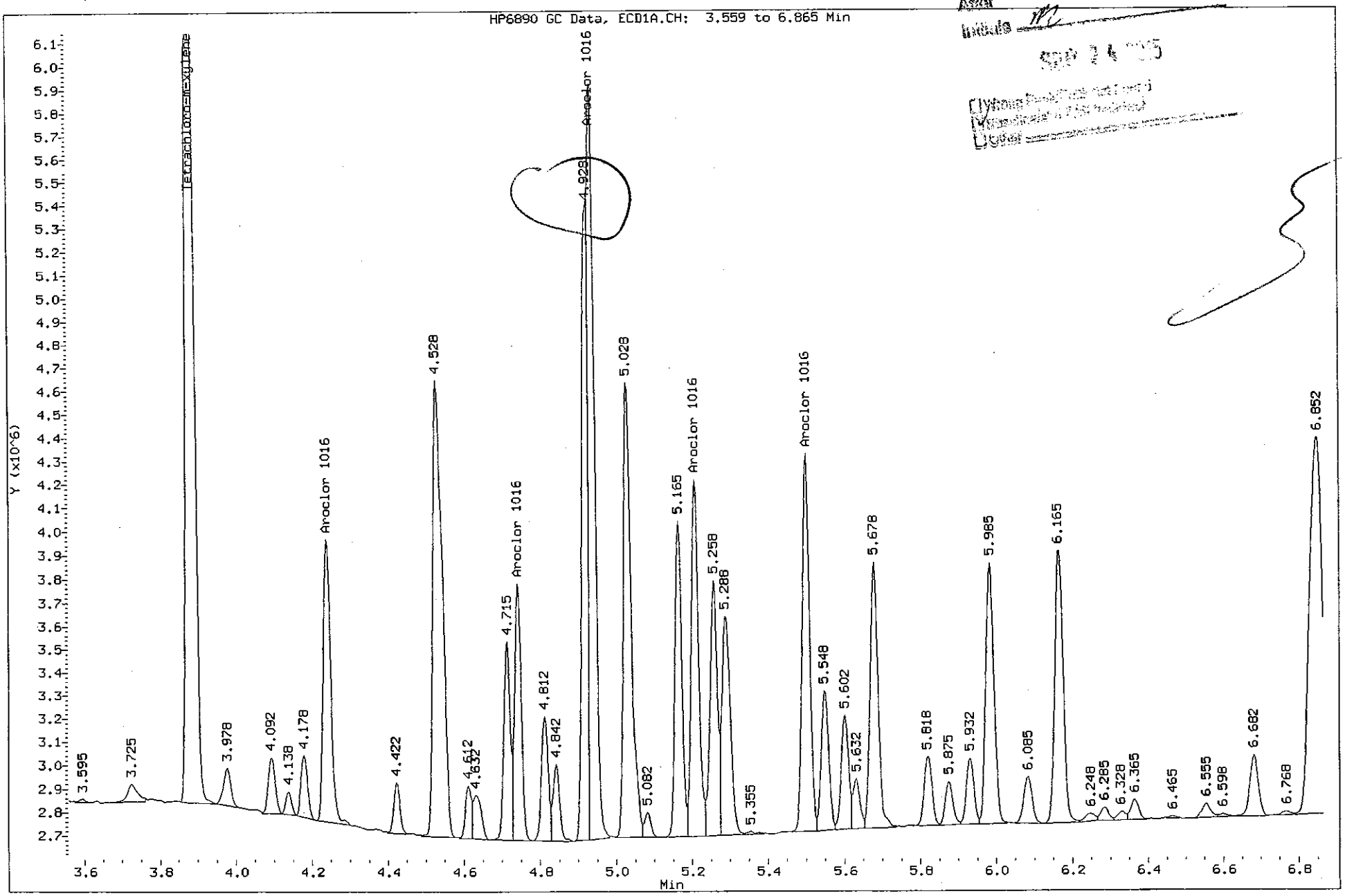
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Injection Date: 23-SEP-2015 12:43
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F011.D
Injection Date: 23-SEP-2015 12:43
Instrument: GC27.i
Client Sample ID:



Exception Report

Data File: \\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\0923F012.D
Lab ID: KWG1509187-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 09/23/2015 13:07
Date Quantitated: 09/24/2015 13:23
Batch ID: KWG1509187
Analysis Method: 8082A
MethodJoinID: MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1016	20.4	NA	20	TOV ok

Primary Review: MR 09/24/15

Secondary Review:

Exception Report

Data File:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315_R.B\0923F012.D	**Date Acquired:**	09/23/2015 13:07
Lab ID:	KWG1509187-4	**Date Quantitated:**	09/24/2015 13:26
RunType:	IB	**Batch ID:**	KWG1509187
Matrix:	NOT APPLICABLE	**Analysis Method:**	8082A
		MethodJoinID:	MJ1038

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA		x
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Second Source ICAL Verification	Aroclor 1248	-20.3	NA	20	TOV dl
	Aroclor 1260	22.7	NA	20	TOV Dual

Primary Review: nm 09/24/15

Secondary Review: _____

Quantitation Report

Data File #1:	J:\GC27\DATA\092315.B\0923F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D			**Vial:**	99
Acqu Date:	09/23/2015 13:07	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8082A PCB	**Collect Date:**		**Receive Date:**	09/24/2015

Analysis Lot:	KWG1509187	**Prep Lot:**		**Report Group:**	
Analysis Method:	8082A	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	\\ALKLSWS002\INSTDATA\GC27\DATA\092315.B\101714_F.M	**Calibration ID:**	CAL13624
Title:			
MB Ref:		**Method ID:**	MJ1038
		Quant based on Method	

Surrogate Compounds

Parameter Name	RT #1	RT #2	Resp #1	Respe #2	ng/mL #1	ng/mL #2			Rpt
Tetrachloro-m-xylene	3.87		8931	0	0.0500	0.0000			NA
			%Recovery =		NA	NA	Limits =	33-120	
Decachlorobiphenyl	0.00	13.63	0	4981		0.0600			NA
			%Recovery =		NA	NA	Limits =	37-139	

Target Compounds

Final Conc. Units: ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1016			0	0	0.0000	0.0000			
Aroclor 1016 {1}			0	0	0.0000	0.0000			
Aroclor 1016 {2}			0	0	0.0000	0.0000			
Aroclor 1016 {3}			0	0	0.0000	0.0000			
Aroclor 1016 {4}			0	0	0.0000	0.0000			
Aroclor 1016 {5}			0	0	0.0000	0.0000			
Aroclor 1221			0	0	0.0000	0.0000			
Aroclor 1221 {1}			0	0	0.0000	0.0000			
Aroclor 1221 {2}			0	0	0.0000	0.0000			
Aroclor 1221 {3}			0	0	0.0000	0.0000			
Aroclor 1232			0	0	0.0000	0.0000			
Aroclor 1232 {1}			0	0	0.0000	0.0000			
Aroclor 1232 {2}			0	0	0.0000	0.0000			
Aroclor 1232 {3}			0	0	0.0000	0.0000			
Aroclor 1232 {4}			0	0	0.0000	0.0000			
Aroclor 1232 {5}			0	0	0.0000	0.0000			
Aroclor 1242			0	0	0.0000	0.0000			
Aroclor 1242 {1}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File #1:	J:\GC27\DATA\092315.B\0923F012.D			**Instrument:**	GC27.i
Data File #2:	\\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D			**Vial:**	99
Acqu Date:	09/23/2015 13:07	**Quant Date:**	09/24/2015 13:23	**Dilution:**	1.0
Run Type:	IB			**Soln Conc. Units:**	ng/mL
Lab ID:	KWG1509187-4				
Signal #1:	DB-35MS	**Signal #2:**	DB-XLB		

Target Compounds **Final Conc. Units:** ug/Kg

Parameter Name	RT #1	RT #2	Resp #1	Resp #2	ng/mL #1	ng/mL #2	ug/Kg #1	ug/Kg #2	Rpt
Aroclor 1242 {2}			0	0	0.0000	0.0000			
Aroclor 1242 {3}			0	0	0.0000	0.0000			
Aroclor 1242 {4}			0	0	0.0000	0.0000			
Aroclor 1242 {5}			0	0	0.0000	0.0000			
Aroclor 1248			0	0	0.0000	0.0000			
Aroclor 1248 {1}			0d	0	0.0000	0.0000			
Aroclor 1248 {2}			0d	0	0.0000	0.0000			
Aroclor 1248 {3}			0d	0	0.0000	0.0000			
Aroclor 1248 {4}			0d	0	0.0000	0.0000			
Aroclor 1248 {5}			0d	0	0.0000	0.0000			
Aroclor 1254			0	0	3.24	3.01			
Aroclor 1254 {1}	6.28	6.74	9384	2516	2.41	0.6850			
Aroclor 1254 {2}	6.68	7.05	31541	20920	4.35	3.61			
Aroclor 1254 {3}	6.83	7.12	72261	6147	4.94	3.17			
Aroclor 1254 {4}	7.16	8.01	12087	10317	1.26	4.55			
Aroclor 1254 {5}	7.74		0	0	0.0000	0.0000			
Aroclors, Total			69788	20790	6.40	4.83	J	J	
Aroclor 1260			0	0	2.31	1.03			
Aroclor 1260 {1}	7.07		49927	0	5.07	0.0000			
Aroclor 1260 {2}		9.25	0	4449	0.0000	1.18			
Aroclor 1260 {3}			0	0	0.0000	0.0000			
Aroclor 1260 {4}	9.10	10.38	8502	3068	0.4520	0.3550			
Aroclor 1260 {5}	9.89	11.04	19888	8706	1.40	1.56			
Aroclor 1262			0	0	0.8530	0.7957			
Aroclor 1262 {1}		9.25	0	4449	0.0000	0.7690			
Aroclor 1262 {2}			0	0	0.0000	0.0000			
Aroclor 1262 {3}	9.10	10.38	8502	3068	0.3680	0.3180			
Aroclor 1262 {4}	9.89	11.04	19888	8706	1.15	1.30			
Aroclor 1262 {5}	11.04		8703	0	1.05	0.0000			
Aroclor 1268			0	0	0.0000	0.0000			
Aroclor 1268 {1}			0	0	0.0000	0.0000			
Aroclor 1268 {2}			0	0	0.0000	0.0000			
Aroclor 1268 {3}			0	0	0.0000	0.0000			
Aroclor 1268 {4}			0	0	0.0000	0.0000			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Resul: fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Report Date: 24-Sep-2015 13:23

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D
Inj Date : 23-SEP-2015 13:07
Sample Info: IB
Misc Info :
Cal Date : 24-SEP-2015 07:33
Operator : MR
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\092315.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\092315_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.868	0.000	8931	0	0.0505	0.000		100.00
Aroclor 1254	6.281	6.742	9384	2516	2.41	0.685	80.00- 120.00	100.00
	6.678	7.052	31541	20920	4.35	3.61	1017.66-1526.49	336.11
	6.831	7.115	72261	6147	4.94	3.17	9646.23-14469.35	770.04
	7.155	8.012	12087	10317	1.26	4.55	1126.72-1690.08	128.80
	7.735	0.000					74.41- 111.61	0.00
		Average of Peak Amounts =			3.24	3.00		
Aroclor 1260	7.071	0.000	49927		5.07		80.00- 120.00	100.00(T)
	0.000	9.248		4449		1.18	148.32- 222.49	0.00(T)
	0.000	0.000					137.59- 206.38	0.00(T)
	9.098	10.378	8502	3068	0.452	0.355	165.26- 247.89	17.03(T)
	9.891	11.035	19888	8706	1.40	1.56	130.88- 196.31	39.83(T)
		Average of Peak Amounts =			2.31	1.03		
Aroclor 1262	0.000	9.248		4449		0.769	80.00- 120.00	100.00(T)
	0.000	0.000					56.43- 84.64	0.00(T)
	9.098	10.378	8502	3068	0.368	0.318	185.52- 278.29	0.00(T)
	9.891	11.035	19888	8706	1.15	1.30	145.56- 218.35	0.00(T)
	11.041	0.000	8703		1.04		49.79- 74.69	0.00(T)
		Average of Peak Amounts =			0.853	0.796		
Decachlorobiphenyl	0.000	13.628	0	4981	0.000	0.0605		
Aroclors, Total	0.000	0.000	69788	20790	6.40	4.83		0.00

QC Flag Legend

T - Target compound detected outside RT window.

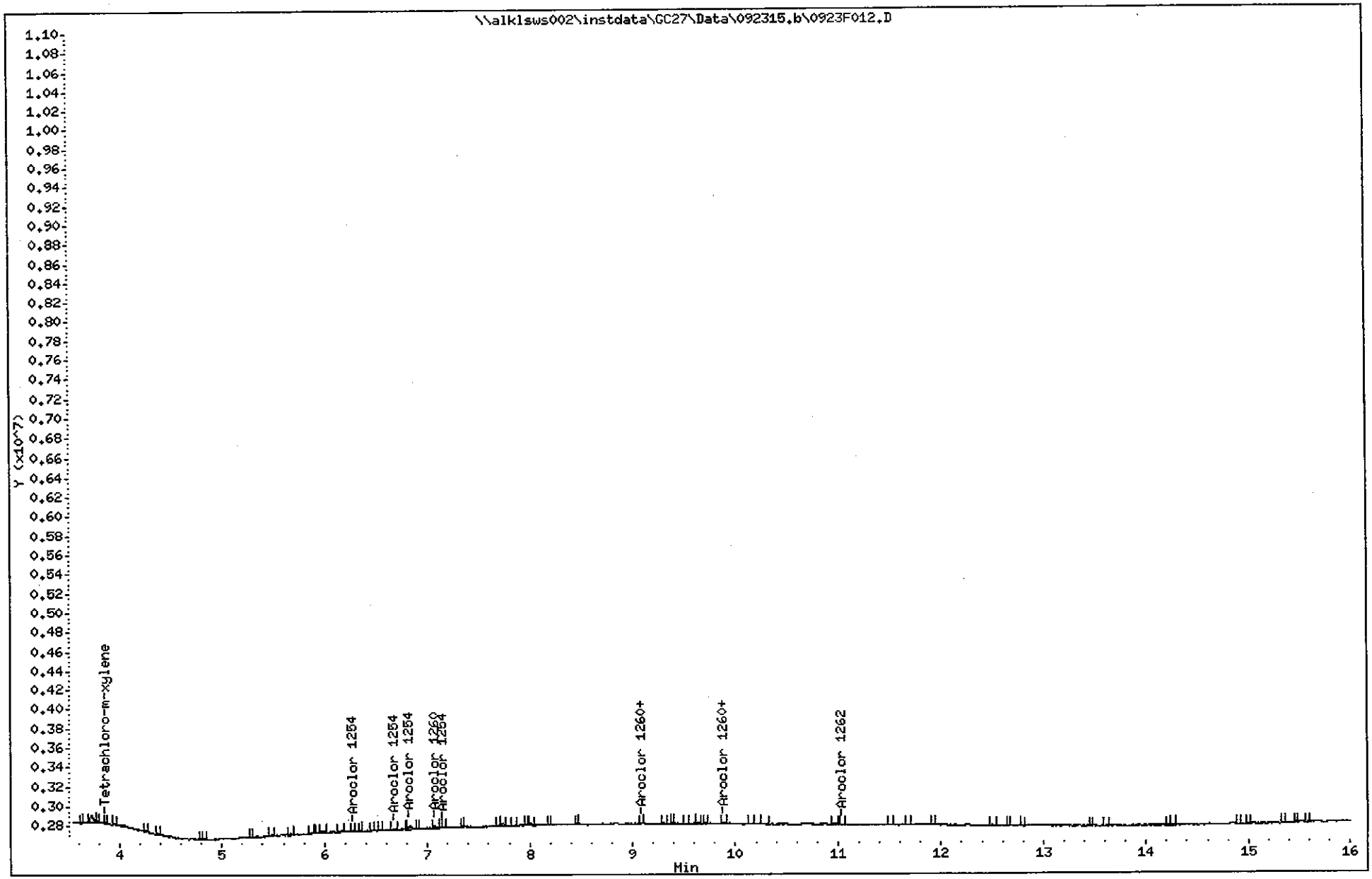
Data File: \\alklsws002\instdata\GC27\Data\092315.b\0923F012.D
Date : 23-SEP-2015 13:07
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR

Column phase: DB-35MS

Column diameter: 0.32

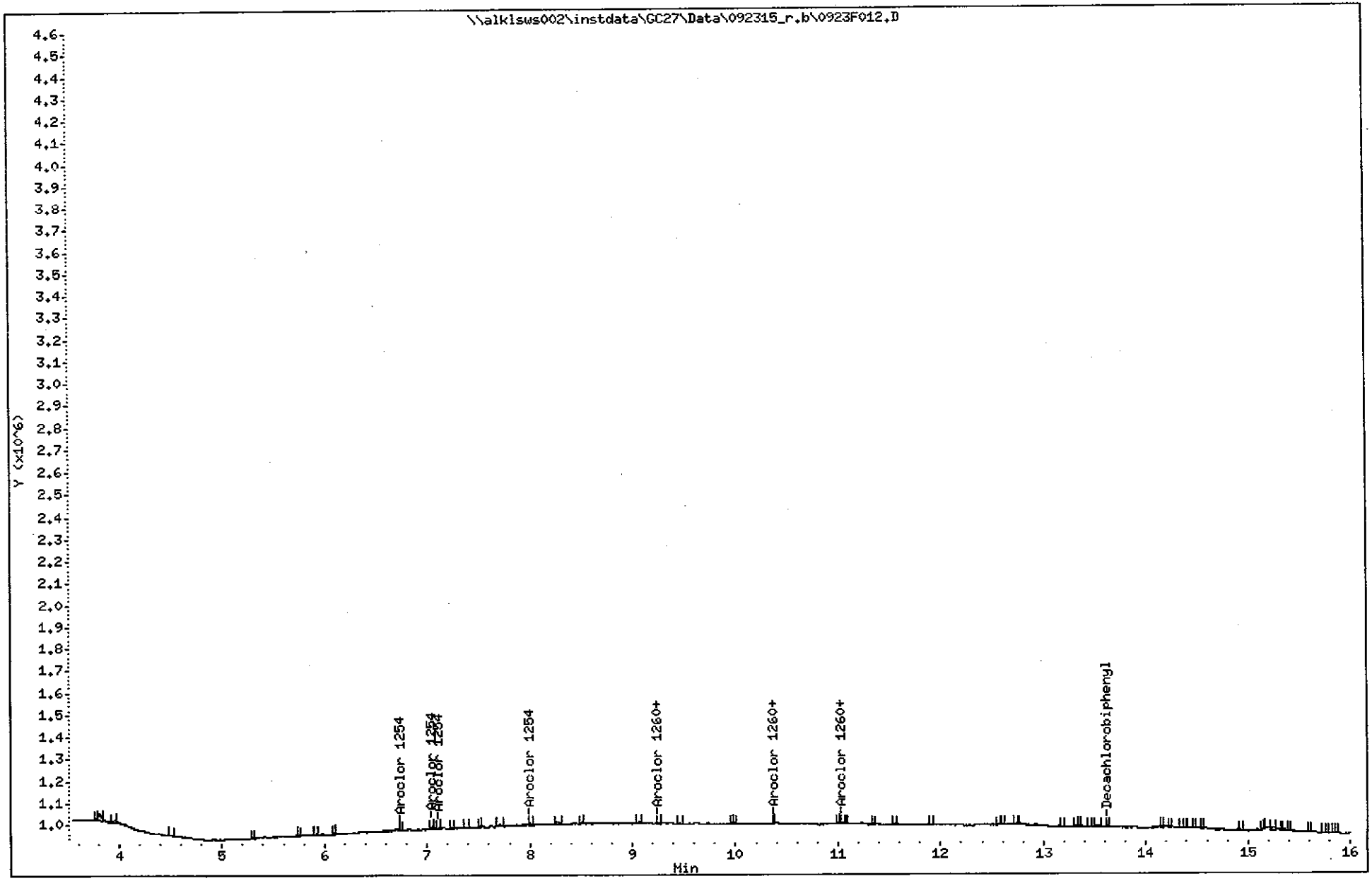


Data File: \\alklsws002\instdata\GC27\Data\092315_r.b\0923F012.D
Date : 23-SEP-2015 13:07
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: MR
Column diameter: 0.32

Column phase: DB-XLB



Sequence Name: C:\GC27\SEQUENCE\101714CAL.S
Comment: PCB Aroclors by EPA 8082A
Operator: JMSmith
Data Path: C:\GC27\DATA\101714CAL\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

CAL13624

Line	Type	Vial	DataFile	Method	Sample Name
1	SOLN	90	1017F001	PCB_REG	HEXANE
2	SOLN	90	1017F002	PCB_REG	HEXANE
3	SOLN	100	1017F003	PCB_REG	2,4'/4,4'-DDx MARKER PCB6-27H
4	IB	86	1017F004	PCB_REG	IB
5	ICAL	1	1017F005	PCB_REG	1660 @ 2.5-25ppb PCB6-57H-high 2 RSDs, rerun curve
6	ICAL	2	1017F006	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
7	ICAL	3	1017F007	PCB_REG	1660 @ 50-500ppb PCB6-56G
8	ICAL	4	1017F008	PCB_REG	1660 @ 100-1000ppb PCB6-57F
9	ICAL	5	1017F009	PCB_REG	1660 @ 200-2000ppb PCB6-57E
10	ICAL	6	1017F010	PCB_REG	1660 @ 500-5000ppb PCB6-57D
11	ICAL	7	1017F011	PCB_REG	2154 @ 50-25ppb PCB6-55B
12	ICAL	8	1017F012	PCB_REG	2154 @ 100-50ppb PCB6-55A
13	ICAL	9	1017F013	PCB_REG	2154 @ 1000-500ppb PCB6-54O
14	ICAL	10	1017F014	PCB_REG	2154 @ 2000-1000ppb PCB6-54N
15	ICAL	11	1017F015	PCB_REG	2154 @ 4000-2000ppb PCB6-54M
16	ICAL	12	1017F016	PCB_REG	2154 @ 10000-5000ppb PCB6-54L
17	ICAL	13	1017F017	PCB_REG	3262 @ 25ppb PCB6-57N
18	ICAL	14	1017F018	PCB_REG	3262 @ 50ppb PCB6-57M
19	ICAL	15	1017F019	PCB_REG	3262 @ 500ppb PCB6-57L
20	ICAL	16	1017F020	PCB_REG	3262 @ 1000ppb PCB6-57K
21	ICAL	17	1017F021	PCB_REG	3262 @ 2000ppb PCB6-57J
22	ICAL	18	1017F022	PCB_REG	3262 @ 5000ppb PCB6-57I
23	ICAL	19	1017F023	PCB_REG	4268 @ 25ppb PCB6-55J
24	ICAL	20	1017F024	PCB_REG	4268 @ 50ppb PCB6-55I
25	ICAL	21	1017F025	PCB_REG	4268 @ 500ppb PCB6-55H
26	ICAL	22	1017F026	PCB_REG	4268 @ 1000ppb PCB6-55G
27	ICAL	23	1017F027	PCB_REG	4268 @ 2000ppb PCB6-55F
28	ICAL	24	1017F028	PCB_REG	4268 @ 5000ppb PCB6-55E
29	ICAL	25	1017F029	PCB_REG	48 @ 25ppb PCB6-48J
30	ICAL	26	1017F030	PCB_REG	48 @ 50ppb PCB6-48I
31	ICAL	27	1017F031	PCB_REG	48 @ 500ppb PCB6-48H
32	ICAL	28	1017F032	PCB_REG	48 @ 1000ppb PCB6-48G
33	ICAL	29	1017F033	PCB_REG	48 @ 2000ppb PCB6-48F
34	ICAL	30	1017F034	PCB_REG	48 @ 5000ppb PCB6-48E
35	ICV	31	1017F035	PCB_REG	1016 ICV @ 1000ppb PCB6-54B-see rerun
36	ICV	32	1017F036	PCB_REG	1221 ICV @ 1000ppb PCB6-54C
37	ICV	33	1017F037	PCB_REG	1232 ICV @ 1000ppb PCB6-54D
38	ICV	34	1017F038	PCB_REG	1242 ICV @ 1000ppb PCB6-54E
39	ICV	35	1017F039	PCB_REG	1248 ICV @ 1000ppb PCB6-54F
40	ICV	36	1017F040	PCB_REG	1254 ICV @ 1000ppb PCB6-54G
41	ICV	37	1017F041	PCB_REG	1260 ICV @ 1000ppb PCB6-54H-see rerun
42	ICV	38	1017F042	PCB_REG	1262 ICV @ 1000ppb PCB6-54I
43	ICV	39	1017F043	PCB_REG	1268 ICV @ 1000ppb PCB6-54J

Last Modified: Sat Oct 18 01:52:20 2014

Page: 1

Sequence Name: C:\GC27\SEQUENCE\101714CAL.S

Line	Type	Vial	DataFile	Method	Sample Name
44	SOLN	90	1017F044	PCB_REG	CONDITIONER BLANK
45	ICAL	1	1017F045	PCB_REG	1660 @ 2.5-25ppb PCB6-57H - high ZnO, reactive standard
46	ICAL	2	1017F046	PCB_REG	1660 @ 5.0-50ppb PCB6-57G
47	ICAL	3	1017F047	PCB_REG	1660 @ 50-500ppb PCB6-56G
48	ICAL	4	1017F048	PCB_REG	1660 @ 100-1000ppb PCB6-57F
49	ICAL	5	1017F049	PCB_REG	1660 @ 200-2000ppb PCB6-57E
50	ICAL	6	1017F050	PCB_REG	1660 @ 500-5000ppb PCB6-57D
51	IB	90	1017F051	PCB_REG	CONDITIONER BLANK
52	ICAL	40	1017F052	PCB_REG	1660 @ 2.5-25ppb PCB6-57O
53	ICV	31	1017F053	PCB_REG	1016 ICV @ 1000ppb PCB6-54B
54	ICV	37	1017F054	PCB_REG	1260 ICV @ 1000ppb PCB6-54H

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		3.6E+3	20	13.4			OK	
Aroclor 1016 {2}	MULTI	AverageRF		3.0E+3	20	12.5			OK	
Aroclor 1016 {3}	MULTI	AverageRF		9.9E+3	20	11.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		5.0E+3	20	13.6			OK	
Aroclor 1016 {5}	MULTI	AverageRF		5.2E+3	20	12.0			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.5E+3	20	7.7			OK	
Aroclor 1232 {2}	MULTI	AverageRF		4.4E+3	20	12.6			OK	
Aroclor 1232 {3}	MULTI	AverageRF		3.9E+3	20	13.2			OK	
Aroclor 1232 {4}	MULTI	AverageRF		4.6E+3	20	7.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		3.0E+3	20	5.3			OK	
Aroclor 1242 {1}	MULTI	AverageRF		6.0E+3	20	14.4			OK	
Aroclor 1242 {2}	MULTI	AverageRF		7.7E+3	20	11.3			OK	
Aroclor 1242 {3}	MULTI	AverageRF		3.1E+3	20	7.5			OK	
Aroclor 1242 {4}	MULTI	AverageRF		4.2E+3	20	12.3			OK	
Aroclor 1242 {5}	MULTI	AverageRF		4.9E+3	20	11.0			OK	
Aroclor 1248 {1}	MULTI	AverageRF		4.7E+3	20	15.4			OK	
Aroclor 1248 {2}	MULTI	AverageRF		4.4E+3	20	11.7			OK	
Aroclor 1248 {3}	MULTI	AverageRF		6.4E+3	20	12.3			OK	
Aroclor 1248 {4}	MULTI	AverageRF		4.9E+3	20	9.8			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.6E+3	20	10.6			OK	
Aroclor 1260 {1}	MULTI	AverageRF		9.9E+3	20	14.3			OK	
Aroclor 1260 {2}	MULTI	AverageRF		8.1E+3	20	12.4			OK	
Aroclor 1260 {3}	MULTI	AverageRF		8.2E+3	20	12.5			OK	
Aroclor 1260 {4}	MULTI	AverageRF		1.9E+4	20	10.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		1.4E+4	20	11.0			OK	
Aroclor 1262 {1}	MULTI	AverageRF		1.3E+4	20	13.5			OK	
Aroclor 1262 {2}	MULTI	AverageRF		1.2E+4	20	12.7			OK	
Aroclor 1262 {3}	MULTI	AverageRF		2.3E+4	20	12.5			OK	
Aroclor 1262 {4}	MULTI	AverageRF		1.7E+4	20	10.5			OK	
Aroclor 1262 {5}	MULTI	AverageRF		8.3E+3	20	7.8			OK	
Aroclor 1268 {1}	MULTI	AverageRF		3.0E+4	20	17.6			OK	
Aroclor 1268 {2}	MULTI	AverageRF		2.5E+4	20	14.1			OK	
Aroclor 1268 {3}	MULTI	AverageRF		2.2E+4	20	13.7			OK	
Aroclor 1268 {4}	MULTI	AverageRF		6.3E+4	20	15.0			OK	
Decachlorobiphenyl	SURR	AverageRF		1.6E+5	20	11.7			NA	
Tetrachloro-m-xylene	SURR	AverageRF		1.8E+5	20	6.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		2.0E+3	20	10.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		1.4E+3	20	11.7			OK	
Aroclor 1221 {3}	MULTI	AverageRF		4.9E+3	20	14.8			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.9E+3	20	11.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		7.3E+3	20	10.7			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.5E+4	20	14.0			OK	
Aroclor 1254 {4}	MULTI	AverageRF		9.6E+3	20	11.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		6.3E+3	20	7.7			OK	

Initial Calibration - Summary Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB

Parameter Name	Type	Curve Fit	Min RF	Mean RF	Max %RSD	%RSD	Min COD	COD	MRL Check	Conc ½ Low pt.
Aroclor 1016 {1}	MULTI	AverageRF		1.8E+3	20	9.0			OK	
Aroclor 1016 {2}	MULTI	AverageRF		2.4E+3	20	10.1			OK	
Aroclor 1016 {3}	MULTI	AverageRF		3.0E+3	20	9.5			OK	
Aroclor 1016 {4}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1016 {5}	MULTI	AverageRF		2.2E+3	20	9.8			OK	
Aroclor 1232 {1}	MULTI	AverageRF		1.9E+3	20	12.5			OK	
Aroclor 1232 {2}	MULTI	AverageRF		1.0E+3	20	8.3			OK	
Aroclor 1232 {3}	MULTI	AverageRF		8.8E+2	20	11.4			OK	
Aroclor 1232 {4}	MULTI	AverageRF		1.5E+3	20	13.3			OK	
Aroclor 1232 {5}	MULTI	AverageRF		8.2E+2	20	9.2			OK	
Aroclor 1242 {1}	MULTI	AverageRF		1.8E+3	20	14.1			OK	
Aroclor 1242 {2}	MULTI	AverageRF		3.3E+3	20	11.9			OK	
Aroclor 1242 {3}	MULTI	AverageRF		1.8E+3	20	11.6			OK	
Aroclor 1242 {4}	MULTI	AverageRF		1.6E+3	20	12.8			OK	
Aroclor 1242 {5}	MULTI	AverageRF		2.0E+3	20	13.3			OK	
Aroclor 1248 {1}	MULTI	AverageRF		1.2E+3	20	13.0			OK	
Aroclor 1248 {2}	MULTI	AverageRF		2.6E+3	20	16.1			OK	
Aroclor 1248 {3}	MULTI	AverageRF		3.0E+3	20	16.1			OK	
Aroclor 1248 {4}	MULTI	AverageRF		2.4E+3	20	13.3			OK	
Aroclor 1248 {5}	MULTI	AverageRF		4.3E+3	20	15.7			OK	
Aroclor 1260 {1}	MULTI	AverageRF		2.2E+3	20	12.5			OK	
Aroclor 1260 {2}	MULTI	AverageRF		3.8E+3	20	13.6			OK	
Aroclor 1260 {3}	MULTI	AverageRF		3.6E+3	20	14.9			OK	
Aroclor 1260 {4}	MULTI	AverageRF		8.6E+3	20	11.6			OK	
Aroclor 1260 {5}	MULTI	AverageRF		5.6E+3	20	13.5			OK	
Aroclor 1262 {1}	MULTI	AverageRF		5.8E+3	20	12.1			OK	
Aroclor 1262 {2}	MULTI	AverageRF		4.0E+3	20	11.9			OK	
Aroclor 1262 {3}	MULTI	AverageRF		9.7E+3	20	9.6			OK	
Aroclor 1262 {4}	MULTI	AverageRF		6.7E+3	20	10.4			OK	
Aroclor 1262 {5}	MULTI	AverageRF		3.6E+3	20	10.3			OK	
Aroclor 1268 {1}	MULTI	AverageRF		1.3E+4	20	12.2			OK	
Aroclor 1268 {2}	MULTI	AverageRF		1.1E+4	20	10.3			OK	
Aroclor 1268 {3}	MULTI	AverageRF		9.5E+3	20	10.5			OK	
Aroclor 1268 {4}	MULTI	AverageRF		2.8E+4	20	11.4			OK	
Decachlorobiphenyl	SURR	AverageRF		8.2E+4	20	14.3			NA	
Tetrachloro-m-xylene	SURR	AverageRF		7.9E+4	20	4.7			NA	
Aroclor 1221 {1}	MULTI	AverageRF		9.3E+2	20	11.8			OK	
Aroclor 1221 {2}	MULTI	AverageRF		6.2E+2	20	14.8			OK	
Aroclor 1221 {3}	MULTI	AverageRF		2.3E+3	20	19.3			OK	
Aroclor 1254 {1}	MULTI	AverageRF		3.7E+3	20	17.6			OK	
Aroclor 1254 {2}	MULTI	AverageRF		5.8E+3	20	18.5			OK	
Aroclor 1254 {3}	MULTI	AverageRF		1.9E+3	20	12.8			OK	
Aroclor 1254 {4}	MULTI	AverageRF		2.3E+3	20	15.0			OK	
Aroclor 1254 {5}	MULTI	AverageRF		3.1E+3	20	10.9			OK	

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	1.9E+5	26	1.9E+5	27	1.7E+5	28	1.6E+5	29	1.6E+5	30	1.9E+5	1.8E+5	6.7
Decachlorobiphenyl	25	1.7E+5	26	1.8E+5	27	1.5E+5	28	1.4E+5	29	1.4E+5	30	1.7E+5	1.6E+5	11.7
Aroclor 1016 {1}	25	4.0E+3	26	4.1E+3	27	3.5E+3	28	3.2E+3	29	2.9E+3	30	3.9E+3	3.6E+3	13.4
Aroclor 1016 {2}	25	3.2E+3	26	3.5E+3	27	3.1E+3	28	2.6E+3	29	2.5E+3	30	3.1E+3	3.0E+3	12.5
Aroclor 1016 {3}	25	1.1E+4	26	1.1E+4	27	9.8E+3	28	8.1E+3	29	9.2E+3	30	1.0E+4	9.9E+3	11.5
Aroclor 1016 {4}	25	5.7E+3	26	5.7E+3	27	4.9E+3	28	4.3E+3	29	4.1E+3	30	5.1E+3	5.0E+3	13.6
Aroclor 1016 {5}	25	5.7E+3	26	5.9E+3	27	5.1E+3	28	4.6E+3	29	4.4E+3	30	5.4E+3	5.2E+3	12.0
Aroclor 1221 {1}	1	1.9E+3	2	2.3E+3	3	2.1E+3	4	1.8E+3	5	1.7E+3			2.0E+3	10.8
Aroclor 1221 {2}	1	1.4E+3	2	1.6E+3	3	1.4E+3	4	1.2E+3	5	1.2E+3			1.4E+3	11.7
Aroclor 1221 {3}	1	5.2E+3	2	5.8E+3	3	5.0E+3	4	4.3E+3	5	4.0E+3			4.9E+3	14.8
Aroclor 1232 {1}	7	1.6E+3	8	1.5E+3	9	1.4E+3	10	1.4E+3	11	1.3E+3			1.5E+3	7.7
Aroclor 1232 {2}	7	5.1E+3	8	4.9E+3	9	4.3E+3	10	4.0E+3	11	3.8E+3			4.4E+3	12.6
Aroclor 1232 {3}	7	4.7E+3	8	4.0E+3	9	3.9E+3	10	3.6E+3	11	3.3E+3			3.9E+3	13.2
Aroclor 1232 {4}	7	4.9E+3	8	4.7E+3	9	4.6E+3	10	4.6E+3	11	4.0E+3			4.6E+3	7.3
Aroclor 1232 {5}	7	3.1E+3	8	3.1E+3	9	3.1E+3	10	3.0E+3	11	2.8E+3			3.0E+3	5.3
Aroclor 1242 {1}	13	7.1E+3	14	6.8E+3	15	6.0E+3	16	5.7E+3	17	5.6E+3	18	4.7E+3	6.0E+3	14.4
Aroclor 1242 {2}	13	8.6E+3	14	8.9E+3	15	7.7E+3	16	7.6E+3	17	7.1E+3	18	6.6E+3	7.7E+3	11.3

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-35MS
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	3.3E+3	14	3.4E+3	15	3.2E+3	16	3.1E+3	17	3.1E+3	18	2.7E+3	3.1E+3	7.5
Aroclor 1242 {4}	13	4.9E+3	14	4.6E+3	15	4.2E+3	16	4.0E+3	17	4.0E+3	18	3.5E+3	4.2E+3	12.3
Aroclor 1242 {5}	13	5.5E+3	14	5.7E+3	15	5.0E+3	16	4.7E+3	17	4.7E+3	18	4.2E+3	4.9E+3	11.0
Aroclor 1248 {1}	19	5.7E+3	20	5.3E+3	21	4.8E+3	22	4.3E+3	23	4.1E+3	24	3.8E+3	4.7E+3	15.4
Aroclor 1248 {2}	19	4.9E+3	20	4.4E+3	21	5.0E+3	22	4.2E+3	23	3.8E+3	24	3.8E+3	4.4E+3	11.7
Aroclor 1248 {3}	19	7.7E+3	20	6.2E+3	21	7.0E+3	22	6.2E+3	23	5.7E+3	24	5.7E+3	6.4E+3	12.3
Aroclor 1248 {4}	19	5.5E+3	20	4.8E+3	21	5.5E+3	22	4.9E+3	23	4.4E+3	24	4.4E+3	4.9E+3	9.8
Aroclor 1248 {5}	19	5.3E+3	20	4.5E+3	21	5.2E+3	22	4.6E+3	23	4.2E+3	24	4.1E+3	4.6E+3	10.6
Aroclor 1254 {1}	1	3.8E+3	2	4.4E+3	3	4.4E+3	4	3.8E+3	5	3.7E+3	6	3.2E+3	3.9E+3	11.6
Aroclor 1254 {2}	1	7.6E+3	2	8.2E+3	3	7.9E+3	4	6.9E+3	5	6.9E+3	6	6.1E+3	7.3E+3	10.7
Aroclor 1254 {3}	1	1.6E+4	2	1.7E+4	3	1.5E+4	4	1.3E+4	5	1.3E+4	6	1.2E+4	1.5E+4	14.0
Aroclor 1254 {4}	1	1.0E+4	2	1.1E+4	3	1.0E+4	4	9.0E+3	5	9.1E+3	6	8.0E+3	9.6E+3	11.0
Aroclor 1254 {5}	1	6.4E+3	2	6.7E+3	3	7.0E+3	4	6.1E+3	5	6.2E+3	6	5.6E+3	6.3E+3	7.7
Aroclor 1260 {1}	25	1.2E+4	26	1.1E+4	27	9.6E+3	28	8.3E+3	29	8.2E+3	30	1.0E+4	9.9E+3	14.3
Aroclor 1260 {2}	25	8.9E+3	26	9.3E+3	27	8.0E+3	28	7.0E+3	29	6.9E+3	30	8.5E+3	8.1E+3	12.4
Aroclor 1260 {3}	25	9.2E+3	26	9.5E+3	27	8.2E+3	28	7.1E+3	29	7.0E+3	30	8.3E+3	8.2E+3	12.5
Aroclor 1260 {4}	25	2.1E+4	26	2.1E+4	27	1.8E+4	28	1.6E+4	29	1.7E+4	30	2.0E+4	1.9E+4	10.6
Aroclor 1260 {5}	25	1.6E+4	26	1.6E+4	27	1.4E+4	28	1.2E+4	29	1.3E+4	30	1.4E+4	1.4E+4	11.0
Aroclor 1262 {1}	7	1.6E+4	8	1.5E+4	9	1.3E+4	10	1.2E+4	11	1.1E+4			1.3E+4	13.5
Aroclor 1262 {2}	7	1.4E+4	8	1.3E+4	9	1.2E+4	10	1.1E+4	11	9.8E+3			1.2E+4	12.7
Aroclor 1262 {3}	7	2.7E+4	8	2.5E+4	9	2.2E+4	10	2.1E+4	11	2.0E+4			2.3E+4	12.5
Aroclor 1262 {4}	7	2.0E+4	8	1.9E+4	9	1.7E+4	10	1.6E+4	11	1.5E+4			1.7E+4	10.5
Aroclor 1262 {5}	7	9.2E+3	8	8.4E+3	9	8.5E+3	10	8.1E+3	11	7.4E+3			8.3E+3	7.8
Aroclor 1268 {1}	13	3.7E+4	14	3.6E+4	15	2.8E+4	16	2.5E+4	17	2.8E+4	18	2.5E+4	3.0E+4	17.6
Aroclor 1268 {2}	13	3.0E+4	14	3.0E+4	15	2.4E+4	16	2.2E+4	17	2.5E+4	18	2.2E+4	2.5E+4	14.1
Aroclor 1268 {3}	13	2.5E+4	14	2.6E+4	15	2.1E+4	16	1.9E+4	17	2.1E+4	18	1.9E+4	2.2E+4	13.7
Aroclor 1268 {4}	13	7.6E+4	14	7.3E+4	15	5.7E+4	16	5.3E+4	17	6.0E+4	18	5.6E+4	6.3E+4	15.0

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696

Instrument ID: GC27.i
Column Name: DB-35MS

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254412	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254414	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254416	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254418	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254420	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254422	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254424	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254426	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254428	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254430	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254432	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254434	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254436	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254438	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254440	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254442	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254444	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254446	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254448	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254450	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254452	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254454	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254456	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:53	10/19/2014 23:35
24	254458	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254474	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254476	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254478	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254480	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254482	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254484	\\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.280	5.6	26	50	53.01	6.0	27	100	97.30	-2.7
	28	200	184.9	-7.5	29	500	463.0	-7.4	30	2.5	2.650	6.0
Decachlorobiphenyl	25	5	5.512	10.2	26	50	57.02	14.0	27	100	97.85	-2.2
	28	200	173.5	-13.3	29	500	433.1	-13.4	30	2.5	2.613	4.5
Aroclor 1016 {1}	25	50	55.66	11.3	26	500	566.0	13.2	27	1000	984.1	-1.6
	28	2000	1763	-11.9	29	5000	4024	-19.5	30	25	27.11	8.5
Aroclor 1016 {2}	25	50	52.99	6.0	26	500	585.6	17.1	27	1000	1032	3.2
	28	2000	1765	-11.8	29	5000	4139	-17.2	30	25	25.68	2.7
Aroclor 1016 {3}	25	50	55.96	11.9	26	500	556.9	11.4	27	1000	993.9	-0.6
	28	2000	1631	-18.5	29	5000	4657	-6.9	30	25	25.65	2.6
Aroclor 1016 {4}	25	50	57.71	15.4	26	500	569.6	13.9	27	1000	983.4	-1.7
	28	2000	1745	-12.8	29	5000	4104	-17.9	30	25	25.74	3.0
Aroclor 1016 {5}	25	50	55.44	10.9	26	500	570.0	14.0	27	1000	988.6	-1.1
	28	2000	1760	-12.0	29	5000	4225	-15.5	30	25	25.94	3.8
Aroclor 1221 {1}	1	50	48.60	-2.8	2	100	114.9	14.9	3	1000	1068	6.8
	4	2000	1864	-6.8	5	4000	3515	-12.1				

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	50.81	1.6	2	100	115.2	15.2	3	1000	1059	5.9
	4	2000	1834	-8.3	5	4000	3425	-14.4				
Aroclor 1221 {3}	1	50	53.58	7.2	2	100	119.7	19.7	3	1000	1019	1.9
	4	2000	1762	-11.9	5	4000	3324	-16.9				
Aroclor 1232 {1}	7	25	27.29	9.2	8	50	52.97	5.9	9	500	495.2	-1.0
	10	1000	957.1	-4.3	11	2000	1803	-9.9				
Aroclor 1232 {2}	7	25	28.63	14.5	8	50	55.58	11.2	9	500	489.3	-2.1
	10	1000	915.9	-8.4	11	2000	1698	-15.1				
Aroclor 1232 {3}	7	25	29.95	19.8	8	50	51.92	3.8	9	500	495.7	-0.9
	10	1000	922.7	-7.7	11	2000	1699	-15.0				
Aroclor 1232 {4}	7	25	26.74	7.0	8	50	51.48	3.0	9	500	505.4	1.1
	10	1000	1013	1.3	11	2000	1755	-12.3				
Aroclor 1232 {5}	7	25	25.77	3.1	8	50	51.83	3.7	9	500	516.8	3.4
	10	1000	984.9	-1.5	11	2000	1828	-8.6				
Aroclor 1242 {1}	13	25	29.80	19.2	14	50	56.41	12.8	15	500	503.1	0.6
	16	1000	950.2	-5.0	17	2000	1862	-6.9	18	5000	3963	-20.7*
Aroclor 1242 {2}	13	25	27.76	11.1	14	50	57.56	15.1	15	500	494.9	-1.0
	16	1000	975.4	-2.5	17	2000	1835	-8.2	18	5000	4277	-14.5
Aroclor 1242 {3}	13	25	26.68	6.7	14	50	54.07	8.1	15	500	506.5	1.3
	16	1000	975.2	-2.5	17	2000	1981	-1.0	18	5000	4364	-12.7
Aroclor 1242 {4}	13	25	29.22	16.9	14	50	55.24	10.5	15	500	503.9	0.8
	16	1000	946.8	-5.3	17	2000	1895	-5.3	18	5000	4123	-17.5
Aroclor 1242 {5}	13	25	27.54	10.2	14	50	57.14	14.3	15	500	508.6	1.7
	16	1000	940.7	-5.9	17	2000	1906	-4.7	18	5000	4224	-15.5
Aroclor 1248 {1}	19	25	30.39	21.6	20	50	56.56	13.1	21	500	516.1	3.2
	22	1000	925.9	-7.4	23	2000	1753	-12.3	24	5000	4090	-18.2
Aroclor 1248 {2}	19	25	28.30	13.2	20	50	50.41	0.8	21	500	568.0	13.6
	22	1000	974.0	-2.6	23	2000	1743	-12.8	24	5000	4389	-12.2
Aroclor 1248 {3}	19	25	30.01	20.0	20	50	47.90	-4.2	21	500	547.1	9.4
	22	1000	963.9	-3.6	23	2000	1787	-10.6	24	5000	4450	-11.0
Aroclor 1248 {4}	19	25	27.76	11.0	20	50	48.85	-2.3	21	500	561.7	12.3
	22	1000	991.1	-0.9	23	2000	1811	-9.4	24	5000	4462	-10.8
Aroclor 1248 {5}	19	25	28.37	13.5	20	50	48.48	-3.0	21	500	560.8	12.2
	22	1000	984.1	-1.6	23	2000	1822	-8.9	24	5000	4396	-12.1
Aroclor 1254 {1}	1	25	24.59	-1.7	2	50	56.56	13.1	3	500	564.7	12.9
	4	1000	970.1	-3.0	5	2000	1922	-3.9	6	5000	4123	-17.5
Aroclor 1254 {2}	1	25	26.12	4.5	2	50	56.30	12.6	3	500	546.0	9.2
	4	1000	945.8	-5.4	5	2000	1899	-5.0	6	5000	4208	-15.8
Aroclor 1254 {3}	1	25	27.76	11.0	2	50	59.44	18.9	3	500	527.3	5.5
	4	1000	908.5	-9.2	5	2000	1833	-8.3	6	5000	4106	-17.9
Aroclor 1254 {4}	1	25	26.64	6.5	2	50	57.25	14.5	3	500	529.4	5.9
	4	1000	943.5	-5.6	5	2000	1898	-5.1	6	5000	4191	-16.2
Aroclor 1254 {5}	1	25	25.42	1.7	2	50	52.63	5.3	3	500	551.1	10.2
	4	1000	966.5	-3.4	5	2000	1969	-1.6	6	5000	4388	-12.2
Aroclor 1260 {1}	25	50	58.68	17.4	26	500	562.7	12.5	27	1000	971.2	-2.9
	28	2000	1691	-15.5	29	5000	4157	-16.9	30	25	26.32	5.3
Aroclor 1260 {2}	25	50	54.99	10.0	26	500	575.3	15.1	27	1000	989.3	-1.1
	28	2000	1724	-13.8	29	5000	4252	-15.0	30	25	26.20	4.8

*Aroclor 1242 @ 5000ppb average %D= -16.2 > -20

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-35MS

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	55.90	11.8	26	500	578.9	15.8	27	1000	994.8	-0.5
	28	2000	1732	-13.4	29	5000	4263	-14.7	30	25	25.27	1.1
Aroclor 1260 {4}	25	50	54.99	10.0	26	500	557.3	11.5	27	1000	969.3	-3.1
	28	2000	1732	-13.4	29	5000	4481	-10.4	30	25	26.35	5.4
Aroclor 1260 {5}	25	50	55.30	10.6	26	500	570.4	14.1	27	1000	983.9	-1.6
	28	2000	1747	-12.7	29	5000	4433	-11.3	30	25	25.23	0.9
Aroclor 1262 {1}	7	25	28.73	14.9	8	50	56.03	12.1	9	500	490.3	-1.9
	10	1000	919.2	-8.1	11	2000	1661	-16.9				
Aroclor 1262 {2}	7	25	28.80	15.2	8	50	54.68	9.4	9	500	494.9	-1.0
	10	1000	930.1	-7.0	11	2000	1670	-16.5				
Aroclor 1262 {3}	7	25	29.00	16.0	8	50	54.73	9.5	9	500	482.3	-3.5
	10	1000	925.9	-7.4	11	2000	1710	-14.5				
Aroclor 1262 {4}	7	25	28.12	12.5	8	50	53.73	7.5	9	500	497.7	-0.5
	10	1000	945.3	-5.5	11	2000	1720	-14.0				
Aroclor 1262 {5}	7	25	27.58	10.3	8	50	50.64	1.3	9	500	510.3	2.1
	10	1000	976.1	-2.4	11	2000	1774	-11.3				
Aroclor 1268 {1}	13	25	30.91	23.7	14	50	60.26	20.5*	15	500	466.1	-6.8
	16	1000	845.6	-15.4	17	2000	1867	-6.6	18	5000	4234	-15.3
Aroclor 1268 {2}	13	25	29.46	17.8	14	50	58.57	17.1	15	500	473.4	-5.3
	16	1000	863.7	-13.6	17	2000	1923	-3.9	18	5000	4391	-12.2
Aroclor 1268 {3}	13	25	28.95	15.8	14	50	59.09	18.2	15	500	473.9	-5.2
	16	1000	865.8	-13.4	17	2000	1930	-3.5	18	5000	4408	-11.8
Aroclor 1268 {4}	13	25	30.33	21.3	14	50	57.96	15.9	15	500	458.3	-8.3
	16	1000	850.8	-14.9	17	2000	1927	-3.7	18	5000	4484	-10.3

*Aroclor 1268 @ 50ppb average %D = 17.9 <20

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Tetrachloro-m-xylene	25	8.2E+4	26	7.6E+4	27	8.0E+4	28	7.8E+4	29	7.3E+4	30	8.3E+4	7.9E+4	4.7
Decachlorobiphenyl	25	9.8E+4	26	8.1E+4	27	8.0E+4	28	7.5E+4	29	6.7E+4	30	9.4E+4	8.2E+4	14.3
Aroclor 1016 {1}	25	2.0E+3	26	1.8E+3	27	1.8E+3	28	1.6E+3			30	2.0E+3	1.8E+3	9.0
Aroclor 1016 {2}	25	2.7E+3	26	2.4E+3	27	2.3E+3	28	2.1E+3			30	2.7E+3	2.4E+3	10.1
Aroclor 1016 {3}	25	3.4E+3	26	3.0E+3	27	2.9E+3	28	2.6E+3			30	3.1E+3	3.0E+3	9.5
Aroclor 1016 {4}	25	2.5E+3	26	2.2E+3	27	2.1E+3	28	1.9E+3			30	2.3E+3	2.2E+3	9.8
Aroclor 1016 {5}	25	2.5E+3	26	2.1E+3	27	2.1E+3	28	1.9E+3			30	2.1E+3	2.2E+3	9.8
Aroclor 1221 {1}	1	1.1E+3	2	1.1E+3	3	9.5E+2	4	9.0E+2	5	8.5E+2	6	7.9E+2	9.3E+2	11.8
Aroclor 1221 {2}	1	7.6E+2	2	6.9E+2	3	6.3E+2	4	5.9E+2	5	5.5E+2	6	5.1E+2	6.2E+2	14.8
Aroclor 1221 {3}	1	2.9E+3	2	2.7E+3	3	2.2E+3	4	2.0E+3	5	1.9E+3	6	1.8E+3	2.3E+3	19.3
Aroclor 1232 {1}	7	2.2E+3	8	2.2E+3	9	2.0E+3	10	1.8E+3	11	1.7E+3	12	1.6E+3	1.9E+3	12.5
Aroclor 1232 {2}	7	1.1E+3	8	1.0E+3	9	1.1E+3	10	9.9E+2	11	9.4E+2	12	8.7E+2	1.0E+3	8.3
Aroclor 1232 {3}	7	1.0E+3	8	9.6E+2	9	8.9E+2	10	8.4E+2	11	8.5E+2	12	7.3E+2	8.8E+2	11.4
Aroclor 1232 {4}	7	1.8E+3	8	1.7E+3	9	1.6E+3	10	1.4E+3	11	1.4E+3	12	1.3E+3	1.5E+3	13.3
Aroclor 1232 {5}	7	8.6E+2	8	9.1E+2	9	8.8E+2	10	8.2E+2	11	7.8E+2	12	7.0E+2	8.2E+2	9.2
Aroclor 1242 {1}	13	2.1E+3	14	1.9E+3	15	1.9E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	14.1
Aroclor 1242 {2}	13	3.8E+3	14	3.4E+3	15	3.4E+3	16	3.5E+3	17	3.0E+3	18	2.7E+3	3.3E+3	11.9

Initial Calibration - Detailed Report

Calibration ID:	CAL13624	**Instrument ID:**	GC27.i
Method ID:	MJ696	**Column Name:**	DB-XLB
		Calibration Fit:	AverageRF

Parameter Name	#	RF	#	RF	#	RF	#	RF	#	RF	#	RF	Mean RF	%RSD
Aroclor 1242 {3}	13	2.0E+3	14	1.7E+3	15	1.8E+3	16	1.9E+3	17	1.7E+3	18	1.4E+3	1.8E+3	11.6
Aroclor 1242 {4}	13	1.9E+3	14	1.6E+3	15	1.7E+3	16	1.7E+3	17	1.5E+3	18	1.3E+3	1.6E+3	12.8
Aroclor 1242 {5}	13	2.4E+3	14	2.2E+3	15	2.1E+3	16	2.1E+3	17	1.8E+3	18	1.6E+3	2.0E+3	13.3
Aroclor 1248 {1}	19	1.3E+3	20	1.4E+3	21	1.3E+3	22	1.2E+3	23	1.0E+3			1.2E+3	13.0
Aroclor 1248 {2}	19	2.7E+3	20	3.1E+3	21	2.8E+3	22	2.3E+3	23	2.0E+3			2.6E+3	16.1
Aroclor 1248 {3}	19	3.2E+3	20	3.6E+3	21	3.1E+3	22	2.7E+3	23	2.3E+3			3.0E+3	16.1
Aroclor 1248 {4}	19	2.4E+3	20	2.8E+3	21	2.6E+3	22	2.3E+3	23	2.0E+3			2.4E+3	13.3
Aroclor 1248 {5}	19	4.5E+3	20	5.1E+3	21	4.5E+3	22	3.9E+3	23	3.4E+3			4.3E+3	15.7
Aroclor 1254 {1}	1	4.7E+3	2	4.2E+3	3	3.7E+3	4	3.4E+3	5	3.2E+3	6	3.0E+3	3.7E+3	17.6
Aroclor 1254 {2}	1	7.5E+3	2	6.6E+3	3	5.7E+3	4	5.3E+3	5	4.9E+3	6	4.7E+3	5.8E+3	18.5
Aroclor 1254 {3}	1	2.3E+3	2	2.1E+3	3	2.0E+3	4	1.9E+3	5	1.7E+3	6	1.6E+3	1.9E+3	12.8
Aroclor 1254 {4}	1	2.8E+3	2	2.4E+3	3	2.3E+3	4	2.1E+3	5	2.0E+3	6	1.9E+3	2.3E+3	15.0
Aroclor 1254 {5}	1	3.7E+3	2	3.4E+3	3	3.1E+3	4	3.0E+3	5	2.9E+3	6	2.8E+3	3.1E+3	10.9
Aroclor 1260 {1}	25	2.5E+3	26	2.2E+3	27	2.2E+3	28	2.1E+3	29	1.8E+3	30	2.5E+3	2.2E+3	12.5
Aroclor 1260 {2}	25	4.6E+3	26	3.7E+3	27	3.7E+3	28	3.5E+3	29	3.1E+3	30	4.1E+3	3.8E+3	13.6
Aroclor 1260 {3}	25	4.5E+3	26	3.5E+3	27	3.5E+3	28	3.3E+3	29	2.9E+3	30	4.0E+3	3.6E+3	14.9
Aroclor 1260 {4}	25	1.0E+4	26	8.4E+3	27	8.4E+3	28	8.1E+3	29	7.5E+3	30	9.2E+3	8.6E+3	11.6
Aroclor 1260 {5}	25	6.8E+3	26	5.5E+3	27	5.4E+3	28	5.1E+3	29	4.6E+3	30	6.0E+3	5.6E+3	13.5
Aroclor 1262 {1}	7	6.5E+3	8	6.6E+3	9	5.9E+3	10	5.5E+3	11	5.3E+3	12	4.9E+3	5.8E+3	12.1
Aroclor 1262 {2}	7	4.5E+3	8	4.6E+3	9	4.2E+3	10	3.9E+3	11	3.6E+3	12	3.5E+3	4.0E+3	11.9
Aroclor 1262 {3}	7	1.1E+4	8	1.1E+4	9	9.6E+3	10	9.2E+3	11	8.8E+3	12	8.7E+3	9.7E+3	9.6
Aroclor 1262 {4}	7	7.5E+3	8	7.5E+3	9	6.8E+3	10	6.5E+3	11	6.1E+3	12	5.8E+3	6.7E+3	10.4
Aroclor 1262 {5}	7	4.1E+3	8	4.1E+3	9	3.7E+3	10	3.5E+3	11	3.3E+3	12	3.2E+3	3.6E+3	10.3
Aroclor 1268 {1}	13	1.5E+4	14	1.4E+4	15	1.3E+4	16	1.3E+4	17	1.2E+4	18	1.1E+4	1.3E+4	12.2
Aroclor 1268 {2}	13	1.2E+4	14	1.1E+4	15	1.1E+4	16	1.1E+4	17	1.0E+4	18	9.3E+3	1.1E+4	10.3
Aroclor 1268 {3}	13	1.1E+4	14	9.9E+3	15	9.7E+3	16	9.9E+3	17	8.7E+3	18	8.1E+3	9.5E+3	10.5
Aroclor 1268 {4}	13	3.3E+4	14	3.0E+4	15	2.8E+4	16	2.9E+4	17	2.6E+4	18	2.4E+4	2.8E+4	11.4

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

#	FileID	File Location	Acquisition Date	Quantitation Date	Last Updated
1	254413	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D	10/18/2014 05:51	10/19/2014 04:52	10/19/2014 23:35
2	254415	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D	10/18/2014 06:14	10/19/2014 04:52	10/19/2014 23:35
3	254417	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D	10/18/2014 06:37	10/19/2014 04:52	10/19/2014 23:35
4	254419	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D	10/18/2014 07:00	10/19/2014 04:52	10/19/2014 23:35
5	254421	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D	10/18/2014 07:23	10/19/2014 04:52	10/19/2014 23:35
6	254423	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D	10/18/2014 07:47	10/19/2014 04:52	10/19/2014 23:35
7	254425	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D	10/18/2014 08:09	10/19/2014 04:52	10/19/2014 23:35
8	254427	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D	10/18/2014 08:32	10/19/2014 04:52	10/19/2014 23:35
9	254429	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D	10/18/2014 08:55	10/19/2014 04:52	10/19/2014 23:35
10	254431	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D	10/18/2014 09:18	10/19/2014 04:52	10/19/2014 23:35
11	254433	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D	10/18/2014 09:41	10/19/2014 04:53	10/19/2014 23:35
12	254435	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D	10/18/2014 10:04	10/19/2014 04:53	10/19/2014 23:35
13	254437	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D	10/18/2014 10:27	10/19/2014 04:53	10/19/2014 23:35
14	254439	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D	10/18/2014 10:50	10/19/2014 04:53	10/19/2014 23:35
15	254441	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D	10/18/2014 11:14	10/19/2014 04:53	10/19/2014 23:35
16	254443	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D	10/18/2014 11:36	10/19/2014 04:53	10/19/2014 23:35
17	254445	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D	10/18/2014 11:59	10/19/2014 04:53	10/19/2014 23:35
18	254447	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D	10/18/2014 12:22	10/19/2014 04:53	10/19/2014 23:35
19	254449	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D	10/18/2014 12:45	10/19/2014 04:53	10/19/2014 23:35
20	254451	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D	10/18/2014 13:08	10/19/2014 04:53	10/19/2014 23:35
21	254453	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D	10/18/2014 13:31	10/19/2014 04:53	10/19/2014 23:35
22	254455	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D	10/18/2014 13:54	10/19/2014 04:53	10/19/2014 23:35
23	254457	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D	10/18/2014 14:17	10/19/2014 04:54	10/19/2014 23:35
24	254459	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D	10/18/2014 14:40	10/19/2014 04:54	10/19/2014 23:35
25	254475	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D	10/18/2014 23:21	10/19/2014 04:54	10/19/2014 23:36
26	254477	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D	10/18/2014 23:45	10/19/2014 04:54	10/19/2014 23:36
27	254479	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D	10/19/2014 00:08	10/19/2014 04:54	10/19/2014 23:36
28	254481	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D	10/19/2014 00:31	10/19/2014 04:54	10/19/2014 23:36
29	254483	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D	10/19/2014 00:54	10/19/2014 04:54	10/19/2014 23:36
30	254485	\\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D	10/19/2014 01:41	10/19/2014 04:55	10/19/2014 23:36

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Tetrachloro-m-xylene	25	5	5.208	4.2	26	50	48.32	-3.4	27	100	101.9	1.9
	28	200	198.2	-0.9	29	500	464.4	-7.1	30	2.5	2.632	5.3
Decachlorobiphenyl	25	5	5.934	18.7	26	50	49.20	-1.6	27	100	96.57	-3.4
	28	200	181.8	-9.1	29	500	404.2	-19.2	30	2.5	2.865	14.6
Aroclor 1016 {1}	25	50	55.33	10.7	26	500	492.6	-1.5	27	1000	963.8	-3.6
	28	2000	1756	-12.2					30	25	26.66	6.6
Aroclor 1016 {2}	25	50	54.83	9.7	26	500	489.0	-2.2	27	1000	947.1	-5.3
	28	2000	1742	-12.9					30	25	27.68	10.7
Aroclor 1016 {3}	25	50	56.70	13.4	26	500	495.7	-0.9	27	1000	964.7	-3.5
	28	2000	1750	-12.5					30	25	25.87	3.5
Aroclor 1016 {4}	25	50	57.36	14.7	26	500	492.1	-1.6	27	1000	959.3	-4.1
	28	2000	1761	-11.9					30	25	25.71	2.9
Aroclor 1016 {5}	25	50	57.97	15.9	26	500	492.9	-1.4	27	1000	967.1	-3.3
	28	2000	1787	-10.6					30	25	24.85	-0.6
Aroclor 1221 {1}	1	50	56.79	13.6	2	100	112.9	12.9	3	1000	1021	2.1
	4	2000	1924	-3.8	5	4000	3632	-9.2	6	10000	8442	-15.6

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1221 {2}	1	50	61.01	22.0	2	100	110.7	10.7	3	1000	1017	1.7
	4	2000	1908	-4.6	5	4000	3553	-11.2	6	10000	8136	-18.6
Aroclor 1221 {3}	1	50	64.07	28.1	2	100	118.9	18.9	3	1000	974.7	-2.5
	4	2000	1804	-9.8	5	4000	3413	-14.7	6	10000	7993	-20.1 ≈20
Aroclor 1232 {1}	7	25	28.36	13.4	8	50	56.62	13.2	9	500	523.4	4.7
	10	1000	953.1	-4.7	11	2000	1811	-9.5	12	5000	4140	-17.2
Aroclor 1232 {2}	7	25	26.93	7.7	8	50	51.71	3.4	9	500	541.0	8.2
	10	1000	995.6	-0.4	11	2000	1880	-6.0	12	5000	4355	-12.9
Aroclor 1232 {3}	7	25	28.97	15.9	8	50	54.12	8.2	9	500	505.7	1.1
	10	1000	952.5	-4.7	11	2000	1930	-3.5	12	5000	4148	-17.0
Aroclor 1232 {4}	7	25	28.76	15.0	8	50	56.95	13.9	9	500	522.6	4.5
	10	1000	931.5	-6.8	11	2000	1825	-8.7	12	5000	4106	-17.9
Aroclor 1232 {5}	7	25	25.93	3.7	8	50	55.21	10.4	9	500	534.1	6.8
	10	1000	994.4	-0.6	11	2000	1892	-5.4	12	5000	4249	-15.0
Aroclor 1242 {1}	13	25	29.28	17.1	14	50	52.10	4.2	15	500	530.8	6.2
	16	1000	1047	4.7	17	2000	1821	-9.0	18	5000	3837	-23.3 *
Aroclor 1242 {2}	13	25	28.49	13.9	14	50	52.09	4.2	15	500	517.0	3.4
	16	1000	1064	6.4	17	2000	1821	-9.0	18	5000	4053	-18.9
Aroclor 1242 {3}	13	25	29.16	16.6	14	50	48.41	-3.2	15	500	521.5	4.3
	16	1000	1056	5.6	17	2000	1883	-5.8	18	5000	4125	-17.5
Aroclor 1242 {4}	13	25	29.23	16.9	14	50	49.99	0.0	15	500	529.9	6.0
	16	1000	1047	4.7	17	2000	1859	-7.0	18	5000	3972	-20.6 *
Aroclor 1242 {5}	13	25	29.49	18.0	14	50	53.19	6.4	15	500	515.3	3.1
	16	1000	1028	2.8	17	2000	1796	-10.2	18	5000	3997	-20.1 *
Aroclor 1248 {1}	19	25	26.21	4.8	20	50	56.58	13.2	21	500	538.0	7.6
	22	1000	942.3	-5.8	23	2000	1604	-19.8				
Aroclor 1248 {2}	19	25	26.20	4.8	20	50	59.94	19.9	21	500	537.8	7.6
	22	1000	886.5	-11.4	23	2000	1582	-20.9 *				
Aroclor 1248 {3}	19	25	26.77	7.1	20	50	60.11	20.2 ≈20	21	500	521.5	4.3
	22	1000	899.0	-10.1	23	2000	1570	-21.5 *				
Aroclor 1248 {4}	19	25	25.25	1.0	20	50	58.50	17.0	21	500	532.7	6.5
	22	1000	940.0	-6.0	23	2000	1629	-18.5				
Aroclor 1248 {5}	19	25	26.17	4.7	20	50	60.16	20.3 ≈20	21	500	527.5	5.5
	22	1000	902.7	-9.7	23	2000	1585	-20.7 *				
Aroclor 1254 {1}	1	25	31.88	27.5	2	50	56.88	13.8	3	500	498.2	-0.4
	4	1000	917.0	-8.3	5	2000	1720	-14.0	6	5000	4069	-18.6
Aroclor 1254 {2}	1	25	32.27	29.1	2	50	57.26	14.5	3	500	494.4	-1.1
	4	1000	914.0	-8.6	5	2000	1693	-15.3	6	5000	4073	-18.5
Aroclor 1254 {3}	1	25	29.67	18.7	2	50	54.86	9.7	3	500	510.9	2.2
	4	1000	956.4	-4.4	5	2000	1779	-11.1	6	5000	4243	-15.1
Aroclor 1254 {4}	1	25	31.20	24.8	2	50	54.06	8.1	3	500	503.8	0.8
	4	1000	946.3	-5.4	5	2000	1778	-11.1	6	5000	4141	-17.2
Aroclor 1254 {5}	1	25	29.36	17.4	2	50	53.82	7.6	3	500	500.7	0.1
	4	1000	952.2	-4.8	5	2000	1818	-9.1	6	5000	4432	-11.4
Aroclor 1260 {1}	25	50	57.19	14.4	26	500	506.1	1.2	27	1000	997.8	-0.2
	28	2000	1874	-6.3	29	5000	3991	-20.2 ≈20	30	25	27.78	11.1
Aroclor 1260 {2}	25	50	60.93	21.9 *↓	26	500	494.7	-1.1	27	1000	976.3	-2.4
	28	2000	1849	-7.6	29	5000	4092	-18.2	30	25	26.82	7.3

* Aroclor 1248 @2000 ppb average %D = -20.3 ≈ 20 * Aroclor 1242 @ 5000 ppb average %D = -20.1 ≈ -20
*↓ see next page for Aroclor 1260 @ 50 ppb average %D

Initial Calibration - Detailed Report

Calibration ID: CAL13624
Method ID: MJ696
Instrument ID: GC27.i
Column Name: DB-XLB

Parameter Name	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D	#	Cal Amt	Calc Conc	% D
Aroclor 1260 {3}	25	50	61.83	23.7*	26	500	490.7	-1.9	27	1000	962.2	-3.8
	28	2000	1824	-8.8	29	5000	4046	-19.1	30	25	27.46	9.9
Aroclor 1260 {4}	25	50	59.87	19.7	26	500	485.3	-2.9	27	1000	970.0	-3.0
	28	2000	1873	-6.3	29	5000	4318	-13.6	30	25	26.55	6.2
Aroclor 1260 {5}	25	50	60.95	21.9*	26	500	491.5	-1.7	27	1000	969.3	-3.1
	28	2000	1844	-7.8	29	5000	4144	-17.1	30	25	26.95	7.8
Aroclor 1262 {1}	7	25	28.19	12.8	8	50	57.27	14.5	9	500	514.2	2.8
	10	1000	942.6	-5.7	11	2000	1815	-9.2	12	5000	4241	-15.2
Aroclor 1262 {2}	7	25	28.07	12.3	8	50	57.24	14.5	9	500	512.5	2.5
	10	1000	957.7	-4.2	11	2000	1790	-10.5	12	5000	4273	-14.5
Aroclor 1262 {3}	7	25	27.64	10.6	8	50	56.28	12.6	9	500	499.0	-0.2
	10	1000	955.8	-4.4	11	2000	1831	-8.5	12	5000	4498	-10.0
Aroclor 1262 {4}	7	25	27.94	11.8	8	50	55.90	11.8	9	500	508.7	1.7
	10	1000	964.7	-3.5	11	2000	1820	-9.0	12	5000	4362	-12.8
Aroclor 1262 {5}	7	25	27.90	11.6	8	50	56.30	12.6	9	500	503.4	0.7
	10	1000	958.3	-4.2	11	2000	1832	-8.4	12	5000	4385	-12.3
Aroclor 1268 {1}	13	25	29.45	17.8	14	50	53.13	6.3	15	500	504.9	1.0
	16	1000	1019	1.9	17	2000	1794	-10.3	18	5000	4169	-16.6
Aroclor 1268 {2}	13	25	28.60	14.4	14	50	51.84	3.7	15	500	510.1	2.0
	16	1000	1032	3.2	17	2000	1830	-8.5	18	5000	4258	-14.8
Aroclor 1268 {3}	13	25	28.80	15.2	14	50	51.70	3.4	15	500	508.5	1.7
	16	1000	1034	3.4	17	2000	1823	-8.8	18	5000	4257	-14.9
Aroclor 1268 {4}	13	25	29.29	17.2	14	50	53.12	6.2	15	500	497.9	-0.4
	16	1000	1016	1.6	17	2000	1811	-9.5	18	5000	4245	-15.1

*Aroclor 1260 @50ppb average %D = 20.3 x 20

Second Source Calibration Verification Summary

CalibrationID: CAL13624

Units: ppb

Method ID: MJ696

Column: DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254486	NA	20				1000.00	1203.8	20.4 *
Aroclor 1016 {1}	254486	AverageRF	100	3.6E+3	4.5E+3	26.2	1000.00	1262.2	
Aroclor 1016 {2}	254486	AverageRF	100	3.0E+3	3.7E+3	24.3	1000.00	1242.7	
Aroclor 1016 {3}	254486	AverageRF	100	9.9E+3	1.2E+4	19.9	1000.00	1198.9	
Aroclor 1016 {4}	254486	AverageRF	100	5.0E+3	5.6E+3	12.3	1000.00	1122.8	
Aroclor 1016 {5}	254486	AverageRF	100	5.2E+3	6.2E+3	19.2	1000.00	1192.2	
Aroclor 1221	254460	NA	20				1000.00	1094.3	9.4
Aroclor 1221 {1}	254460	AverageRF	100	2.0E+3	2.2E+3	11.2	1000.00	1112.1	
Aroclor 1221 {2}	254460	AverageRF	100	1.4E+3	1.5E+3	10.2	1000.00	1101.7	
Aroclor 1221 {3}	254460	AverageRF	100	4.9E+3	5.2E+3	6.9	1000.00	1069.0	
Aroclor 1232	254462	NA	20				1000.00	983.7	-1.6
Aroclor 1232 {1}	254462	AverageRF	100	1.5E+3	1.4E+3	-5.4	1000.00	946.0	
Aroclor 1232 {2}	254462	AverageRF	100	4.4E+3	4.2E+3	-5.1	1000.00	948.9	
Aroclor 1232 {3}	254462	AverageRF	100	3.9E+3	3.9E+3	-0.4	1000.00	995.8	
Aroclor 1232 {4}	254462	AverageRF	100	4.6E+3	4.5E+3	-2.2	1000.00	978.3	
Aroclor 1232 {5}	254462	AverageRF	100	3.0E+3	3.2E+3	4.9	1000.00	1049.5	
Aroclor 1242	254464	NA	20				1000.00	1052.4	5.2
Aroclor 1242 {1}	254464	AverageRF	100	6.0E+3	6.3E+3	4.9	1000.00	1049.2	
Aroclor 1242 {2}	254464	AverageRF	100	7.7E+3	7.6E+3	-1.9	1000.00	980.9	
Aroclor 1242 {3}	254464	AverageRF	100	3.1E+3	3.4E+3	8.5	1000.00	1085.0	
Aroclor 1242 {4}	254464	AverageRF	100	4.2E+3	4.5E+3	7.4	1000.00	1074.1	
Aroclor 1242 {5}	254464	AverageRF	100	4.9E+3	5.3E+3	7.3	1000.00	1072.9	
Aroclor 1248	254466	NA	20				1000.00	872.7	-12.7
Aroclor 1248 {1}	254466	AverageRF	100	4.7E+3	4.0E+3	-14.2	1000.00	857.9	
Aroclor 1248 {2}	254466	AverageRF	100	4.4E+3	3.9E+3	-10.0	1000.00	899.6	
Aroclor 1248 {3}	254466	AverageRF	100	6.4E+3	5.6E+3	-12.4	1000.00	876.5	
Aroclor 1248 {4}	254466	AverageRF	100	4.9E+3	4.3E+3	-12.2	1000.00	878.4	
Aroclor 1248 {5}	254466	AverageRF	100	4.6E+3	3.9E+3	-14.9	1000.00	851.1	
Aroclor 1254	254468	NA	20				1000.00	1003.6	0.4
Aroclor 1254 {1}	254468	AverageRF	100	3.9E+3	4.0E+3	3.2	1000.00	1031.9	
Aroclor 1254 {2}	254468	AverageRF	100	7.3E+3	7.4E+3	1.3	1000.00	1013.5	
Aroclor 1254 {3}	254468	AverageRF	100	1.5E+4	1.4E+4	-5.4	1000.00	946.2	
Aroclor 1254 {4}	254468	AverageRF	100	9.6E+3	9.6E+3	-0.1	1000.00	998.6	
Aroclor 1254 {5}	254468	AverageRF	100	6.3E+3	6.5E+3	2.8	1000.00	1027.6	
Aroclor 1260	254488	NA	20				1000.00	1198.7	19.9
Aroclor 1260 {1}	254488	AverageRF	100	9.9E+3	1.0E+4	5.0	1000.00	1050.1	
Aroclor 1260 {2}	254488	AverageRF	100	8.1E+3	1.0E+4	27.0	1000.00	1270.1	
Aroclor 1260 {3}	254488	AverageRF	100	8.2E+3	1.0E+4	24.4	1000.00	1243.8	
Aroclor 1260 {4}	254488	AverageRF	100	1.9E+4	2.3E+4	21.7	1000.00	1217.5	
Aroclor 1260 {5}	254488	AverageRF	100	1.4E+4	1.7E+4	21.2	1000.00	1211.9	
Aroclor 1262	254470	NA	20				1000.00	1094.6	9.5
Aroclor 1262 {1}	254470	AverageRF	100	1.3E+4	1.5E+4	7.7	1000.00	1077.1	
Aroclor 1262 {2}	254470	AverageRF	100	1.2E+4	1.2E+4	5.0	1000.00	1049.9	
Aroclor 1262 {3}	254470	AverageRF	100	2.3E+4	2.6E+4	10.6	1000.00	1105.6	
Aroclor 1262 {4}	254470	AverageRF	100	1.7E+4	1.9E+4	9.8	1000.00	1097.8	
Aroclor 1262 {5}	254470	AverageRF	100	8.3E+3	9.5E+3	14.2	1000.00	1142.3	
Aroclor 1268	254472	NA	20				1000.00	903.5	-9.6

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-35MS

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL.B\1017F(

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254472	AverageRF	100	3.0E+4	2.7E+4	-7.9	1000.00	921.2	
Aroclor 1268 {2}	254472	AverageRF	100	2.5E+4	2.7E+4	4.7	1000.00	1047.5	
Aroclor 1268 {3}	254472	AverageRF	100	2.2E+4	1.9E+4	-15.8	1000.00	842.5	
Aroclor 1268 {4}	254472	AverageRF	100	6.3E+4	5.0E+4	-19.7	1000.00	802.9	

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1016	254487	NA	20				1000.00	1054.8	5.5
Aroclor 1016 {1}	254487	AverageRF	100	1.8E+3	2.0E+3	7.2	1000.00	1072.4	
Aroclor 1016 {2}	254487	AverageRF	100	2.4E+3	2.5E+3	4.0	1000.00	1039.8	
Aroclor 1016 {3}	254487	AverageRF	100	3.0E+3	3.2E+3	5.6	1000.00	1056.1	
Aroclor 1016 {4}	254487	AverageRF	100	2.2E+3	2.3E+3	4.1	1000.00	1041.1	
Aroclor 1016 {5}	254487	AverageRF	100	2.2E+3	2.3E+3	6.5	1000.00	1064.7	
Aroclor 1221	254461	NA	20				1000.00	1081.2	8.1
Aroclor 1221 {1}	254461	AverageRF	100	9.3E+2	1.0E+3	10.2	1000.00	1102.0	
Aroclor 1221 {2}	254461	AverageRF	100	6.2E+2	6.8E+2	9.2	1000.00	1092.2	
Aroclor 1221 {3}	254461	AverageRF	100	2.3E+3	2.4E+3	5.0	1000.00	1049.6	
Aroclor 1232	254463	NA	20				1000.00	1074.3	7.4
Aroclor 1232 {1}	254463	AverageRF	100	1.9E+3	1.9E+3	1.4	1000.00	1014.1	
Aroclor 1232 {2}	254463	AverageRF	100	1.0E+3	1.1E+3	13.2	1000.00	1132.1	
Aroclor 1232 {3}	254463	AverageRF	100	8.8E+2	9.4E+2	6.8	1000.00	1068.1	
Aroclor 1232 {4}	254463	AverageRF	100	1.5E+3	1.7E+3	9.1	1000.00	1090.5	
Aroclor 1232 {5}	254463	AverageRF	100	8.2E+2	8.8E+2	6.7	1000.00	1066.6	
Aroclor 1242	254465	NA	20				1000.00	1042.9	4.3
Aroclor 1242 {1}	254465	AverageRF	100	1.8E+3	1.9E+3	5.0	1000.00	1050.5	
Aroclor 1242 {2}	254465	AverageRF	100	3.3E+3	3.4E+3	2.1	1000.00	1021.1	
Aroclor 1242 {3}	254465	AverageRF	100	1.8E+3	1.9E+3	6.0	1000.00	1059.9	
Aroclor 1242 {4}	254465	AverageRF	100	1.6E+3	1.7E+3	7.6	1000.00	1076.0	
Aroclor 1242 {5}	254465	AverageRF	100	2.0E+3	2.0E+3	0.7	1000.00	1006.8	
Aroclor 1248	254467	NA	20				1000.00	797.1	-20.3 *
Aroclor 1248 {1}	254467	AverageRF	100	1.2E+3	1.1E+3	-13.5	1000.00	865.4	
Aroclor 1248 {2}	254467	AverageRF	100	2.6E+3	2.1E+3	-18.6	1000.00	813.7	
Aroclor 1248 {3}	254467	AverageRF	100	3.0E+3	2.3E+3	-24.3	1000.00	757.2	
Aroclor 1248 {4}	254467	AverageRF	100	2.4E+3	1.9E+3	-21.5	1000.00	785.5	
Aroclor 1248 {5}	254467	AverageRF	100	4.3E+3	3.3E+3	-23.6	1000.00	763.9	
Aroclor 1254	254469	NA	20				1000.00	958.8	-4.1
Aroclor 1254 {1}	254469	AverageRF	100	3.7E+3	3.4E+3	-6.3	1000.00	936.8	
Aroclor 1254 {2}	254469	AverageRF	100	5.8E+3	5.4E+3	-7.2	1000.00	927.6	
Aroclor 1254 {3}	254469	AverageRF	100	1.9E+3	1.9E+3	-2.5	1000.00	974.8	
Aroclor 1254 {4}	254469	AverageRF	100	2.3E+3	2.2E+3	-2.0	1000.00	979.7	
Aroclor 1254 {5}	254469	AverageRF	100	3.1E+3	3.1E+3	-2.5	1000.00	975.1	
Aroclor 1260	254489	NA	20				1000.00	1226.9	22.7 *
Aroclor 1260 {1}	254489	AverageRF	100	2.2E+3	2.6E+3	17.5	1000.00	1174.9	
Aroclor 1260 {2}	254489	AverageRF	100	3.8E+3	4.9E+3	29.8	1000.00	1298.4	
Aroclor 1260 {3}	254489	AverageRF	100	3.6E+3	4.4E+3	22.1	1000.00	1221.4	
Aroclor 1260 {4}	254489	AverageRF	100	8.6E+3	1.1E+4	24.4	1000.00	1244.4	
Aroclor 1260 {5}	254489	AverageRF	100	5.6E+3	6.7E+3	19.6	1000.00	1195.6	
Aroclor 1262	254471	NA	20				1000.00	1062.1	6.2
Aroclor 1262 {1}	254471	AverageRF	100	5.8E+3	6.2E+3	7.2	1000.00	1072.2	
Aroclor 1262 {2}	254471	AverageRF	100	4.0E+3	4.2E+3	3.7	1000.00	1036.6	
Aroclor 1262 {3}	254471	AverageRF	100	9.7E+3	1.0E+4	7.7	1000.00	1076.9	
Aroclor 1262 {4}	254471	AverageRF	100	6.7E+3	7.0E+3	5.0	1000.00	1050.0	
Aroclor 1262 {5}	254471	AverageRF	100	3.6E+3	3.9E+3	7.5	1000.00	1074.9	
Aroclor 1268	254473	NA	20				1000.00	1064.3	6.4

Second Source Calibration Verification Summary

CalibrationID: CAL13624 **Units:** ppb

Method ID: MJ696 **Column:** DB-XLB

DataFile Location: \\ALKLSWS002\INSTDATA\GC27\DATA\101714CAL_R.B\101′

Parameter Name	File ID	Curve Fit	Method Criteria	AveRF	SSV RF	% Diff	True Value	Sol'n Conc	% Drift
Aroclor 1268 {1}	254473	AverageRF	100	1.3E+4	1.4E+4	9.6	1000.00	1096.1	
Aroclor 1268 {2}	254473	AverageRF	100	1.1E+4	1.4E+4	23.6	1000.00	1236.2	
Aroclor 1268 {3}	254473	AverageRF	100	9.5E+3	9.4E+3	-1.1	1000.00	989.2	
Aroclor 1268 {4}	254473	AverageRF	100	2.8E+4	2.7E+4	-6.4	1000.00	935.5	

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
2 Aroclor 1016(1)	3892	3995	4063	3532	3163	2889	3589	13.402
(2)	3078	3176	3509	3091	2644	2480	2996	12.497
(3)	10150	11070	11017	9831	8065	9213	9891	11.549
(4)	5109	5727	5652	4879	4329	4072	4961	13.617
(5)	5372	5740	5901	5117	4555	4374	5176	11.956
3 Aroclor 1221(1)	1905	2251	2094	1826	1722	+++++	1960	10.831
(2)	1384	1569	1442	1249	1166	+++++	1362	11.658
(3)	5210	5822	4954	4283	4041	+++++	4862	14.761
4 Aroclor 1232(1)	1597	1549	1448	1400	1318	+++++	1462	7.681
(2)	5059	4911	4323	4046	3750	+++++	4418	12.636
(3)	4669	4047	3864	3596	3312	+++++	3898	13.162
(4)	4881	4699	4613	4621	4004	+++++	4564	7.257
(5)	3132	3149	3140	2992	2777	+++++	3038	5.253
5 Aroclor 1242(1)	7135	6754	6024	5689	5575	4745	5987	14.386
(2)	8603	8917	7667	7556	7109	6627	7746	11.265
(3)	3343	3388	3173	3055	3103	2734	3133	7.506
(4)	4913	4645	4237	3981	3984	3467	4204	12.318
(5)	5452	5655	5034	4655	4716	4180	4949	11.032
6 Aroclor 1248(1)	5696	5300	4837	4338	4108	3833	4685	15.402
(2)	4937	4397	4954	4248	3802	3828	4361	11.669
(3)	7712	6156	7031	6193	5741	5718	6425	12.287
(4)	5452	4797	5517	4867	4447	4382	4910	9.848
(5)	5255	4490	5194	4557	4218	4071	4631	10.645
7 Aroclor 1254(1)	3826	4401	4394	3774	3739	3208	3890	11.610
(2)	7584	8171	7925	6865	6891	6109	7258	10.666
(3)	16248	17398	15435	13295	13414	12018	14635	14.007
(4)	10191	10952	10128	9025	9078	8019	9566	11.018
(5)	6439	6665	6978	6119	6233	5556	6332	7.725

Report Date : 19-Oct-2014 03:28

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Cal Date : 19-Oct-2014 03:23 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	RRF	% RSD
8 Aroclor 1260(1)	10372	11561	11085	9567	8328	8190	9851	14.270
(2)	8504	8924	9336	8027	6992	6899	8114	12.377
(3)	8321	9203	9530	8188	7127	7017	8231	12.548
(4)	19818	20676	20953	18221	16277	16848	18799	10.559
(5)	14319	15692	16185	13958	12389	12577	14187	10.988
9 Aroclor 1262(1)	15500	15117	13227	12400	11204	+++++	13490	13.451
(2)	13569	12881	11658	10955	9833	+++++	11779	12.663
(3)	26781	25271	22266	21374	19733	+++++	23085	12.493
(4)	19523	18654	17280	16410	14931	+++++	17359	10.450
(5)	9189	8436	8501	8131	7390	+++++	8329	7.833
10 Aroclor 1268(1)	36509	35580	27524	24967	27562	25003	29524	17.568
(2)	30042	29865	24136	22020	24510	22389	25493	14.068
(3)	25467	25991	20845	19044	21230	19392	21995	13.702
(4)	76037	72666	57458	53328	60390	56210	62682	14.965
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	187640	186949	187678	172241	163701	163939	177025	6.666
$ 11 Decachlorobiphenyl	165307	174313	180329	154730	137160	136963	158134	11.679

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Calibration File Names:
Level 1: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Level 2: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Level 3: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Level 4: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Level 5: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Level 6: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
2 Aroclor 1016(1)	1960	2034	1811	1772	1614	+++++	1838	8.966
(2)	2696	2670	2381	2306	2121	+++++	2435	10.089
(3)	3104	3401	2974	2893	2625	+++++	2999	9.494
(4)	2258	2518	2160	2106	1933	+++++	2195	9.825
(5)	2143	2500	2126	2085	1927	+++++	2156	9.757
3 Aroclor 1221(1)	1062	1055	954	899	848	789	935	11.817
(2)	758	688	632	593	552	506	621	14.807
(3)	2883	2676	2193	2029	1920	1798	2250	19.346
4 Aroclor 1232(1)	2175	2171	2007	1827	1736	1588	1917	12.527
(2)	1076	1033	1081	994	939	870	999	8.264
(3)	1025	957	894	842	853	734	884	11.369
(4)	1765	1747	1603	1429	1400	1260	1534	13.283
(5)	855	911	881	820	780	701	825	9.207
5 Aroclor 1242(1)	2127	1893	1928	1902	1654	1394	1817	14.083
(2)	3754	3432	3406	3505	2999	2670	3294	11.862
(3)	2045	1698	1829	1852	1651	1447	1754	11.638
(4)	1874	1602	1698	1678	1489	1273	1602	12.787
(5)	2385	2151	2084	2079	1816	1617	2022	13.316
6 Aroclor 1248(1)	1306	1410	1341	1174	999	+++++	1246	13.045
(2)	2702	3092	2774	2286	2040	+++++	2579	16.130
(3)	3185	3576	3102	2673	2334	+++++	2974	16.143
(4)	2423	2807	2556	2255	1954	+++++	2399	13.349
(5)	4466	5134	4501	3852	3382	+++++	4267	15.730
7 Aroclor 1254(1)	4685	4180	3661	3370	3161	2991	3675	17.643
(2)	7478	6634	5728	5295	4904	4719	5793	18.497
(3)	2299	2125	1979	1853	1723	1644	1937	12.792
(4)	2827	2450	2283	2144	2014	1876	2266	15.023
(5)	3685	3378	3142	2988	2852	2782	3138	10.932

Report Date : 19-Oct-2014 04:31

ALS Environmental-Kelso

INITIAL CALIBRATION DATA

Start Cal Date : 18-OCT-2014 03:33
End Cal Date : 19-OCT-2014 01:41
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Cal Date : 19-Oct-2014 04:30 tuser
Curve Type : Average

Compound	25.000 Level 1	50.000 Level 2	500.000 Level 3	1000.000 Level 4	2000.000 Level 5	5000.000 Level 6	___ RRF	% RSD
8 Aroclor 1260(1)	2451	2523	2233	2201	2067	1761	2206	12.487
(2)	4055	4606	3740	3690	3494	3094	3780	13.594
(3)	3964	4463	3541	3472	3292	2920	3609	14.944
(4)	9168	10338	8380	8375	8088	7457	8634	11.589
(5)	6021	6809	5490	5414	5149	4629	5585	13.468
9 Aroclor 1262(1)	6524	6627	5950	5453	5251	4907	5785	12.092
(2)	4548	4637	4151	3878	3624	3461	4050	11.891
(3)	10674	10865	9632	9226	8835	8684	9653	9.611
(4)	7486	7489	6815	6462	6095	5843	6699	10.364
(5)	4061	4098	3664	3487	3333	3192	3639	10.326
10 Aroclor 1268(1)	15249	13754	13071	13187	11609	10793	12944	12.192
(2)	12496	11325	11144	11277	9993	9302	10923	10.280
(3)	10997	9869	9707	9870	8702	8127	9545	10.548
(4)	33341	30228	28333	28904	25759	24159	28454	11.437
M 75 Aroclors, Total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	82814	81928	76018	80155	77954	73061	78655	4.723
$ 11 Decachlorobiphenyl	94374	97741	81035	79528	74857	66565	82350	14.332

Front	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	3.924	4.290	4.141	4.139	4.587	4.988	6.341	**7.187**	8.216	9.907	6.270
		4.807	**4.227**	4.289	5.004	**5.364**	**6.784**	8.217	8.776	10.037	6.704
		5.004	4.291	4.586	**5.237**	5.764	6.941	8.777	9.243	10.534	7.020
		5.284		5.003	5.580	5.961	7.284	9.247	10.036	**11.864**	7.484
		5.584		**5.099**	6.084	6.381	7.901	10.040	**11.183**		7.650
											8.147

Rear	TCMX	1016	1221	1232	1242	1248	1254	1260	1262	1268	2,4'/4,4'-DDx
	4.394	4.677	**4.531**	4.676	5.020	5.021	6.811	**7.954**	9.406	11.204	7.034
		5.021	4.598	5.019	5.627	5.591	7.171	9.407	9.859	11.367	7.634
		5.671	4.678	**5.223**	**5.810**	6.008	7.271	9.861	10.539	11.854	7.801
		6.011		5.589	6.010	**6.451**	**8.134**	10.541	11.199	**13.244**	8.357
		6.211		6.009	6.930	7.158	8.894	11.184	**12.539**		8.581
											9.177

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Inj Date : 18-OCT-2014 02:47
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

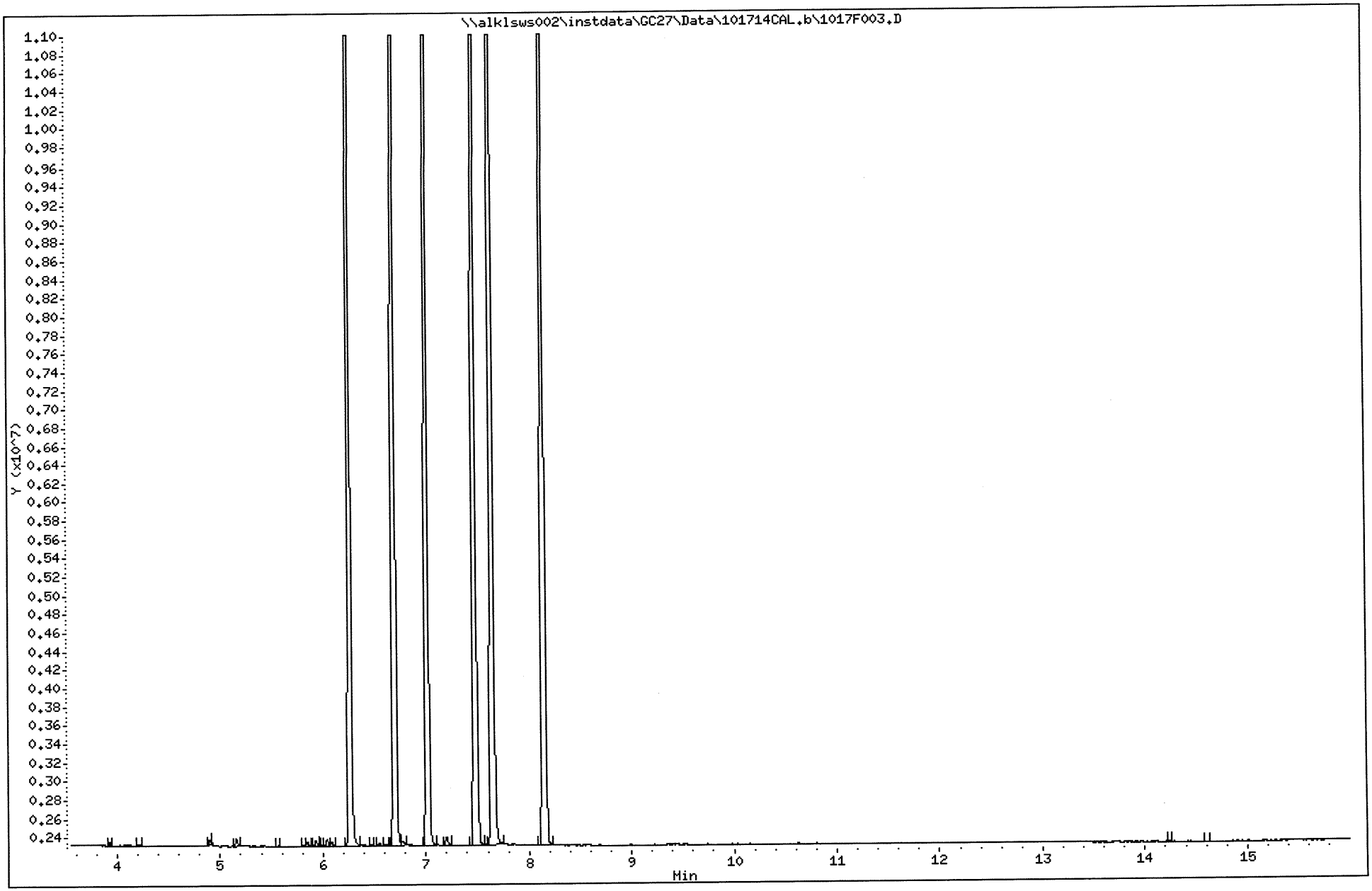
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



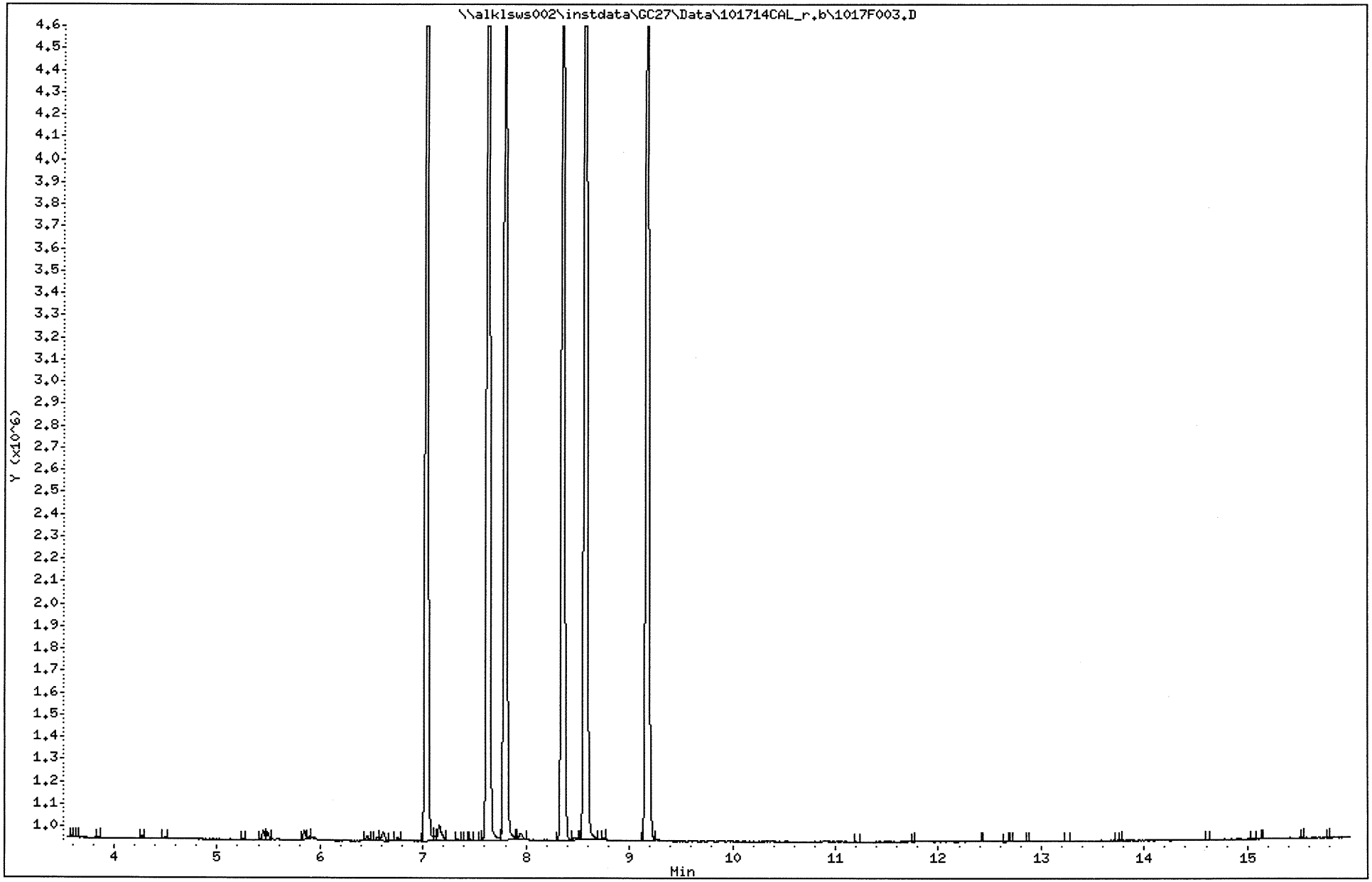
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F003.D
Date : 18-OCT-2014 02:47
Client ID:
Sample Info: 2,4'/4,4'-DDx MARKER PCB6-27H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Inj Date : 18-OCT-2014 03:10
Sample Info: IB
Misc Info :
Cal Date : 19-OCT-2014 04:46
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : ALL.SUB
Sub List #2 : ALL.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

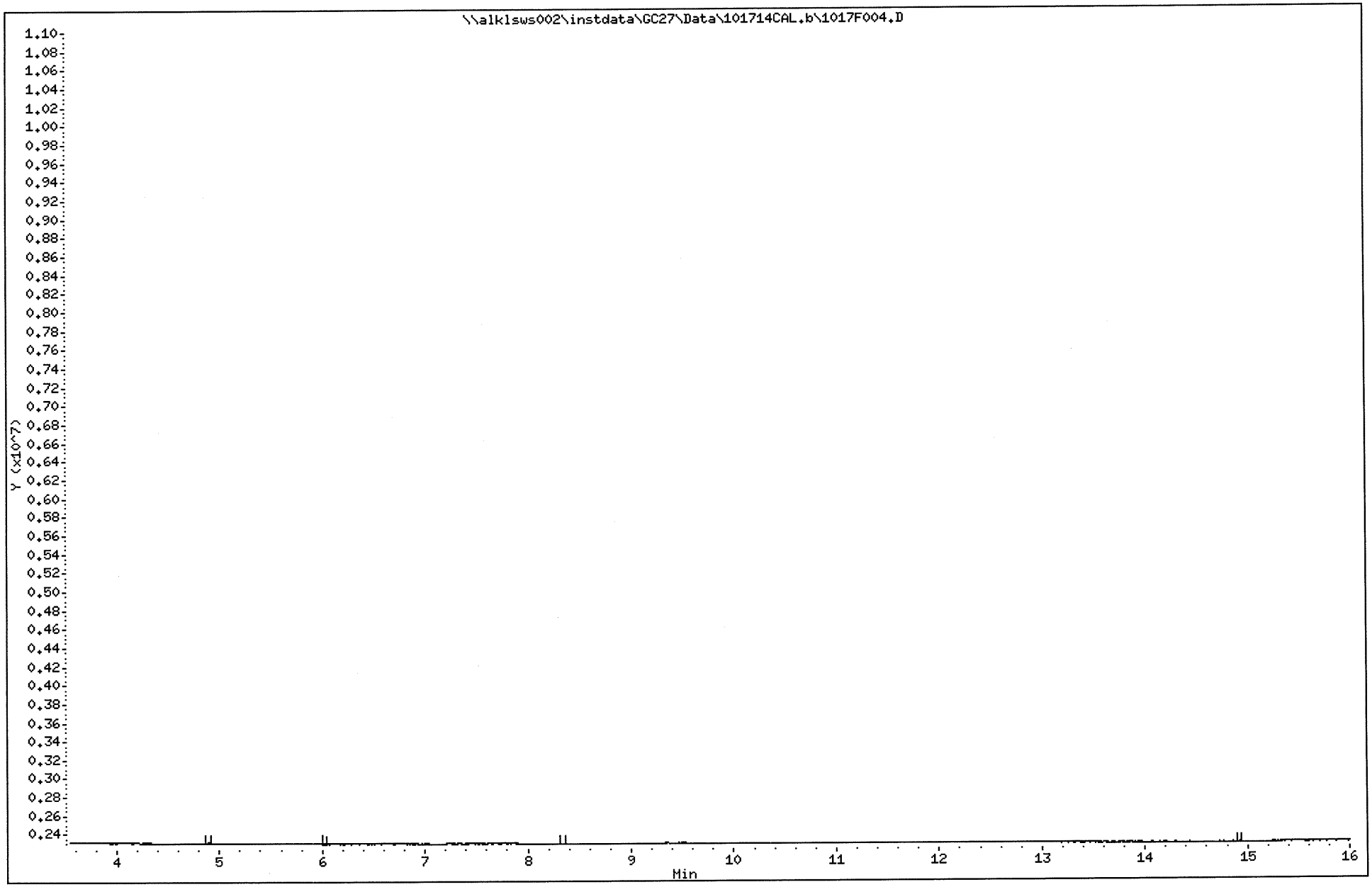
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



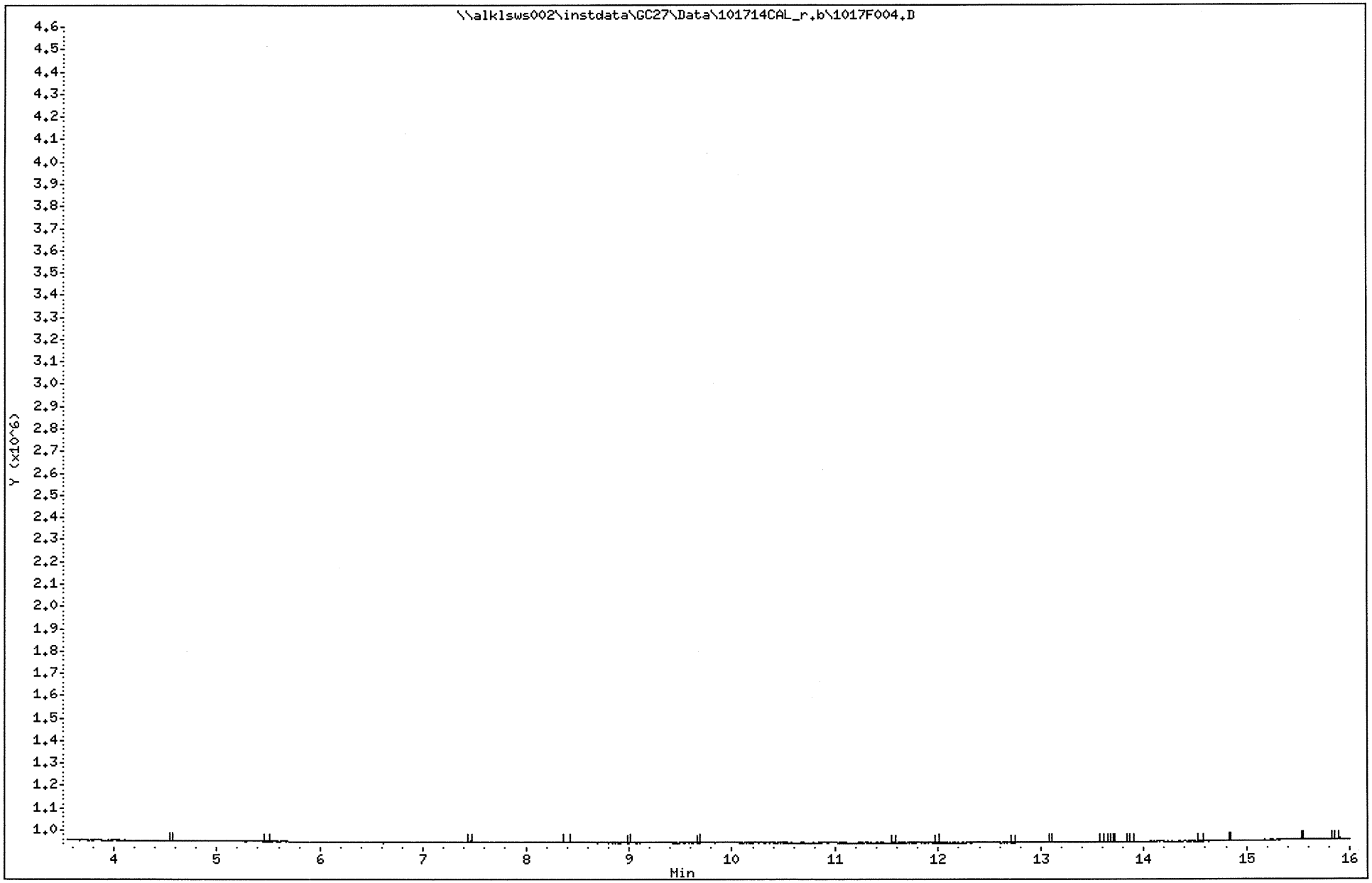
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F004.D
Date : 18-OCT-2014 03:10
Client ID:
Sample Info: IB

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Inj Date : 18-OCT-2014 05:51
Sample Info: 2154 @ 50-25ppb PCB6-55B
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

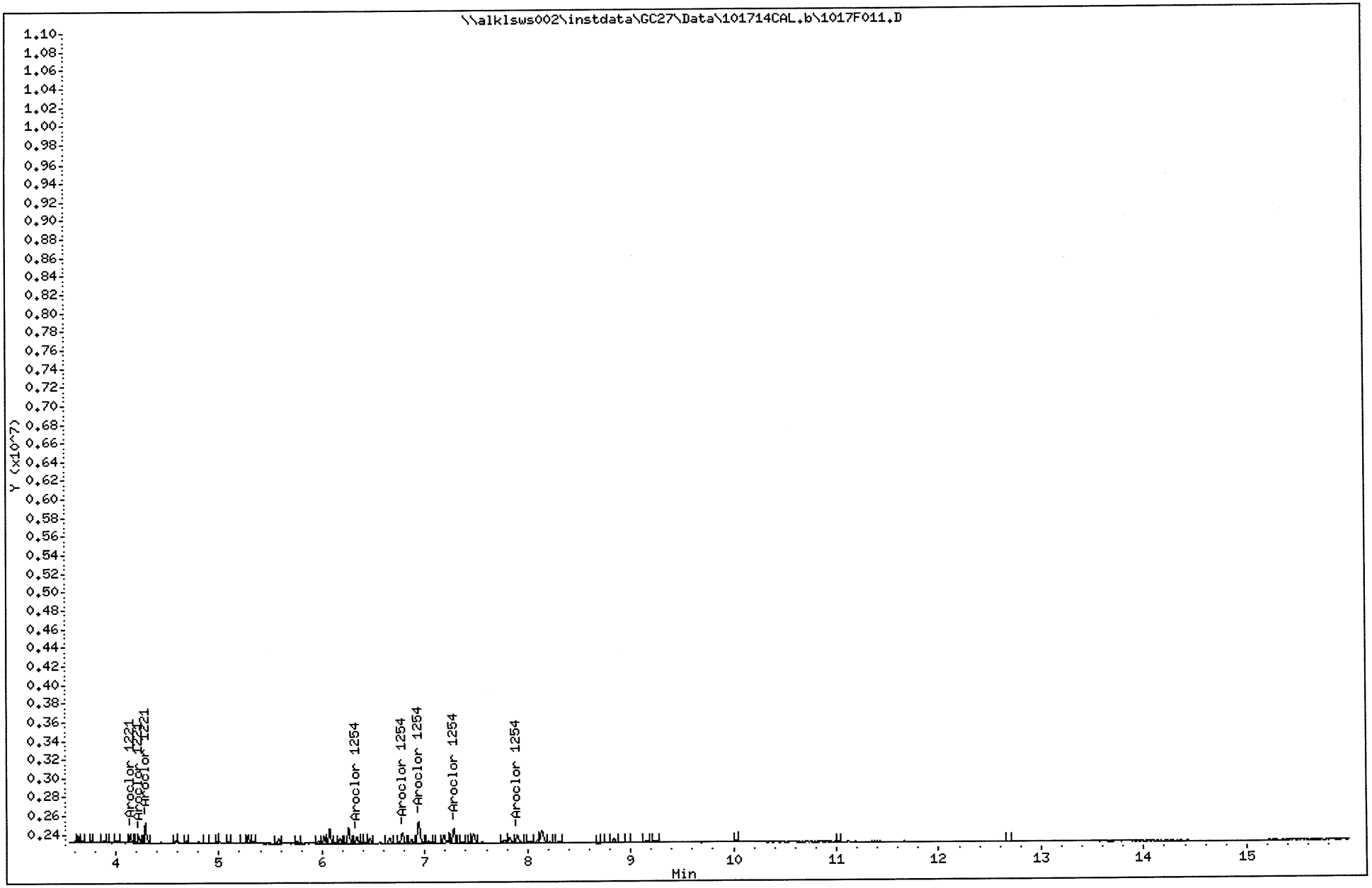
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	95250	53075	48.6	56.8	80.00- 120.00	100.00
	4.227	4.597	69190	37917	50.8	61.0	58.11- 87.17	72.64
	4.287	4.677	260511	144155	53.6	64.1	218.80- 328.20	273.50
		Average of Peak Amounts =			51.0	60.6		
Aroclor 1254	6.341	6.811	95648	117134	24.6	31.9	80.00- 120.00	100.00
	6.784	7.171	189603	186955	26.1	32.3	158.58- 237.88	198.23
	6.941	7.267	406201	57466	27.8	29.7	339.75- 509.62	424.68
	7.284	8.134	254782	70676	26.6	31.2	213.10- 319.65	266.37
	7.901	8.894	160974	92135	25.4	29.4	134.64- 201.96	168.30
		Average of Peak Amounts =			26.1	30.9		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



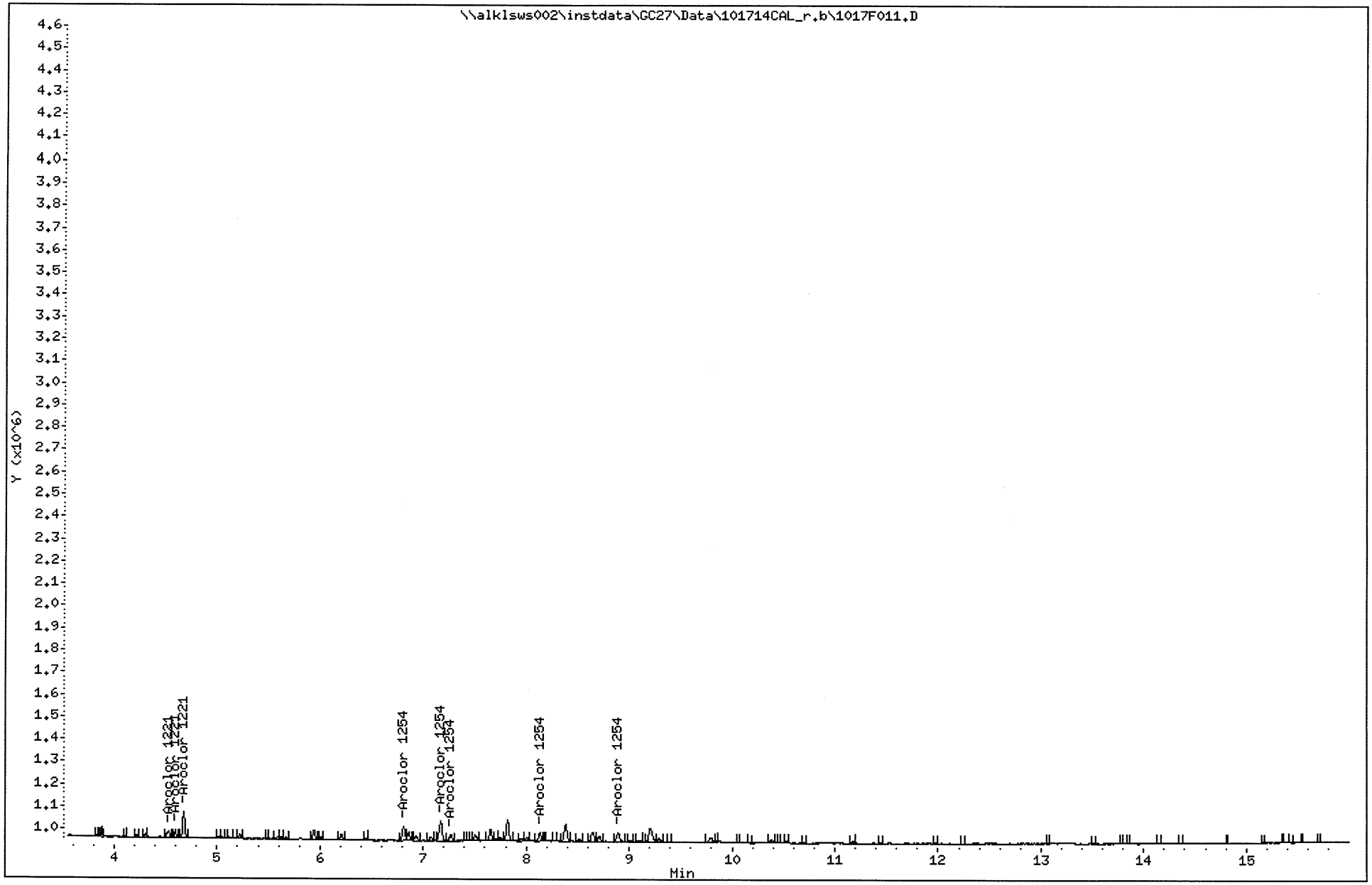
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F011.D
Date : 18-OCT-2014 05:51
Client ID:
Sample Info: 2154 @ 50-25ppb PCB6-55B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Inj Date : 18-OCT-2014 06:14
Sample Info: 2154 @ 100-50ppb PCB6-55A
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	225146	105527	115	113	80.00- 120.00	100.00
	4.228	4.598	156879	68788	115	111	55.74- 83.61	69.68
	4.288	4.678	582187	267637	120	119	206.87- 310.30	258.58
		Average of Peak Amounts =			117	114		
Aroclor 1254	6.341	6.811	220038	209006	56.6	56.9	80.00- 120.00	100.00
	6.785	7.171	408566	331704	56.3	57.3	148.54- 222.82	185.68
	6.941	7.268	869894	106270	59.4	54.9	316.27- 474.41	395.34
	7.285	8.131	547608	122480	57.2	54.1	199.10- 298.64	248.87
	7.901	8.895	333235	168895	52.6	53.8	121.16- 181.73	151.44
		Average of Peak Amounts =			56.4	55.4		

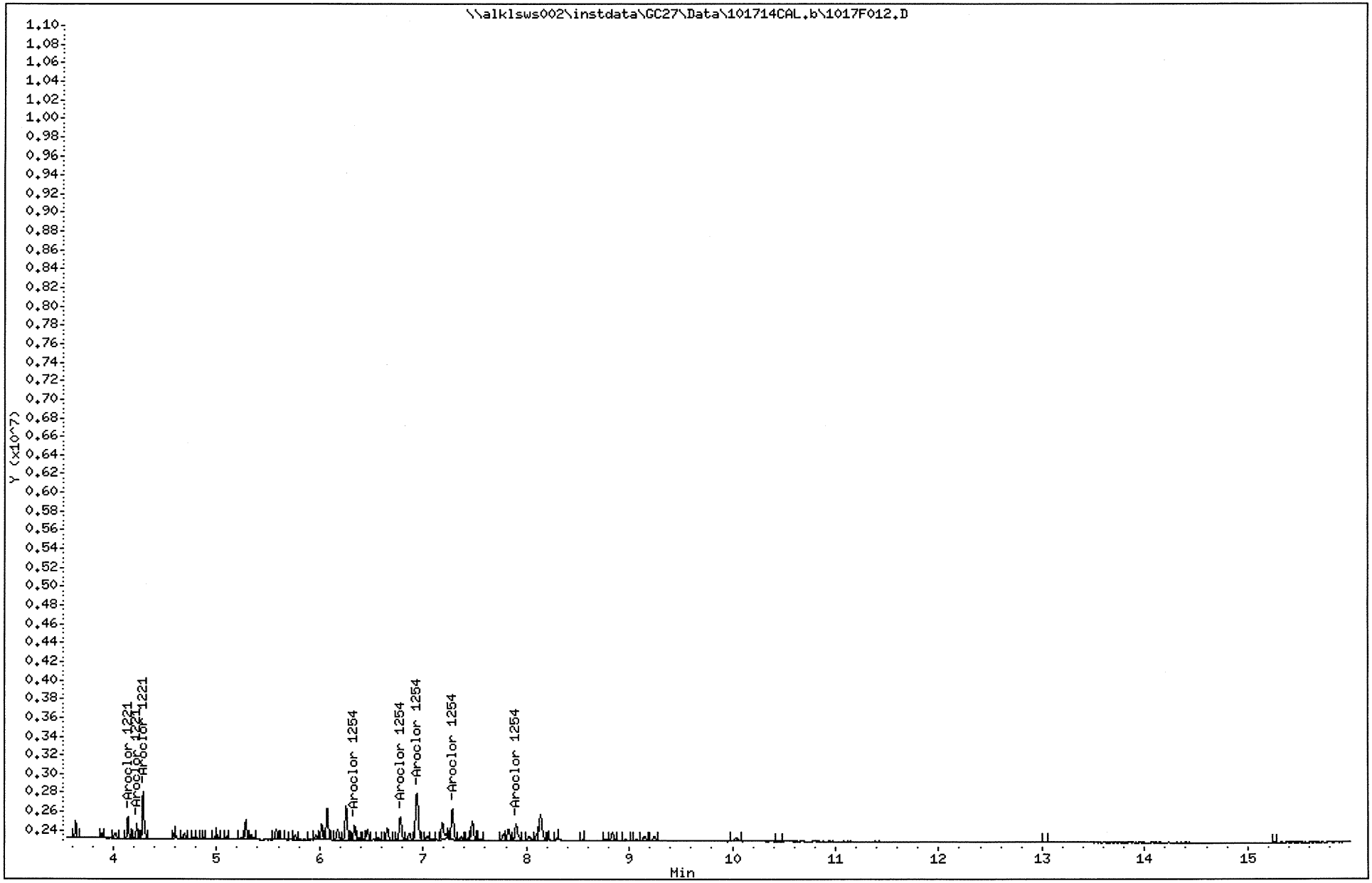
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



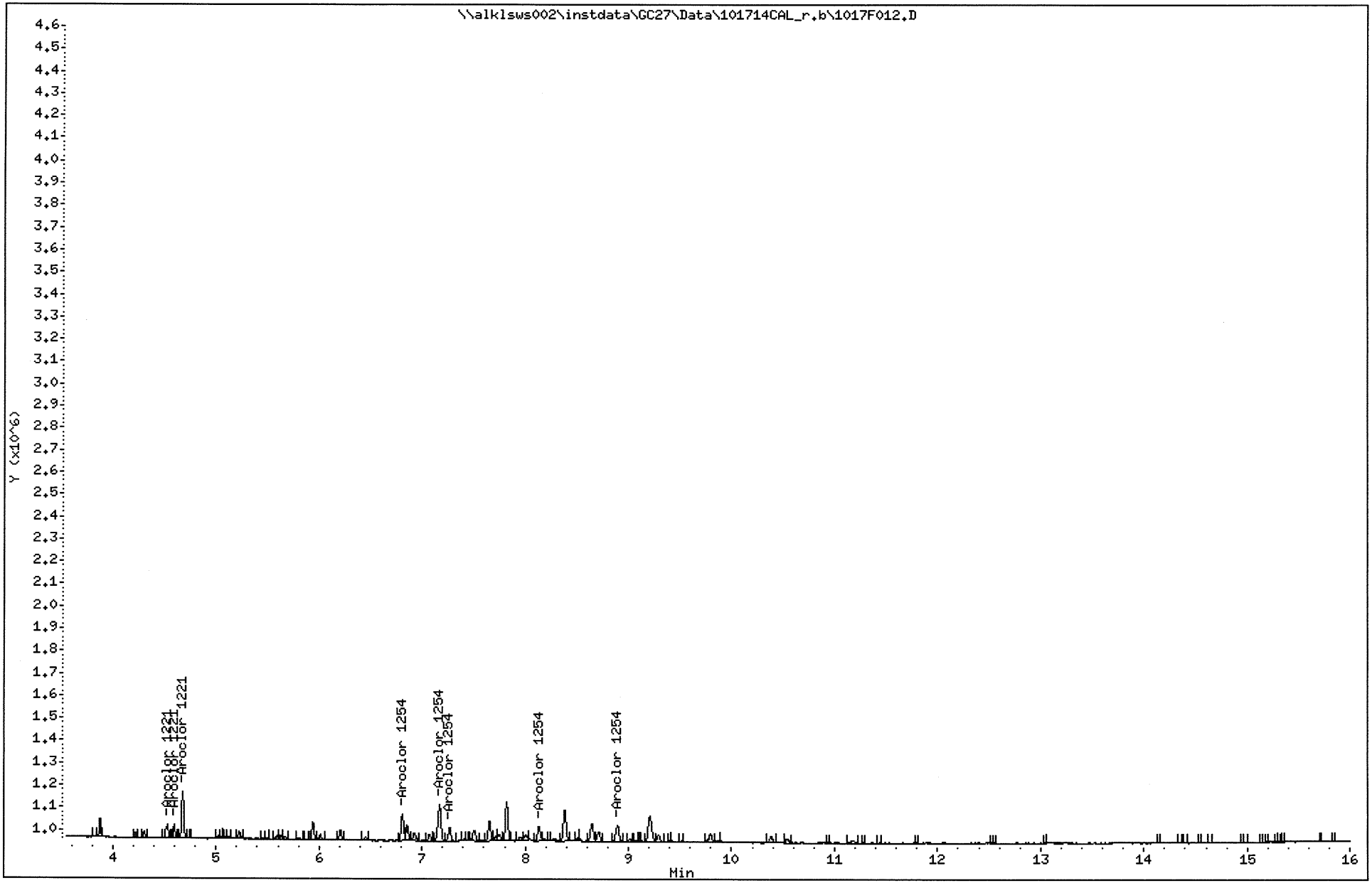
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F012.D
Date : 18-OCT-2014 06:14
Client ID:
Sample Info: 2154 @ 100-50ppb PCB6-55A

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Inj Date : 18-OCT-2014 06:37
Sample Info: 2154 @ 1000-500ppb PCB6-54O
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2093568	954093	1070	1020	80.00- 120.00	100.00
	4.227	4.598	1441827	632090	1060	1020	55.10- 82.64	68.87
	4.291	4.678	4954206	2193169	1020	975	189.31- 283.97	236.64
		Average of Peak Amounts =			1050	1010		
Aroclor 1254	6.341	6.811	2197081	1830638	565	498	80.00- 120.00	100.00
	6.784	7.171	3962606	2863990	546	494	144.29- 216.43	180.36
	6.941	7.271	7717422	989748	527	511	281.01- 421.51	351.26
	7.284	8.134	5064169	1141303	529	504	184.40- 276.59	230.50
	7.901	8.894	3489065	1571024	551	501	127.04- 190.57	158.80
		Average of Peak Amounts =			544	502		

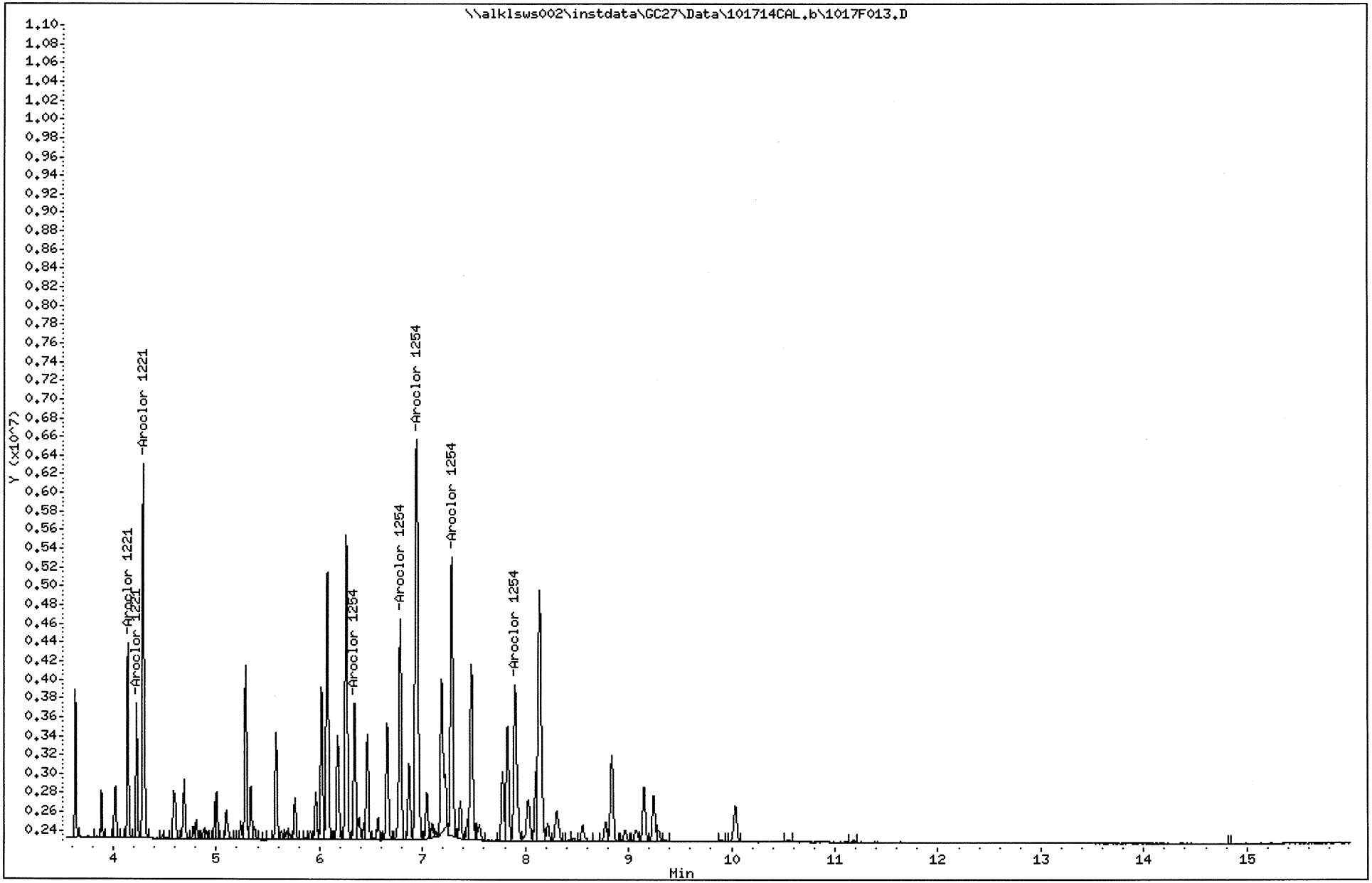
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



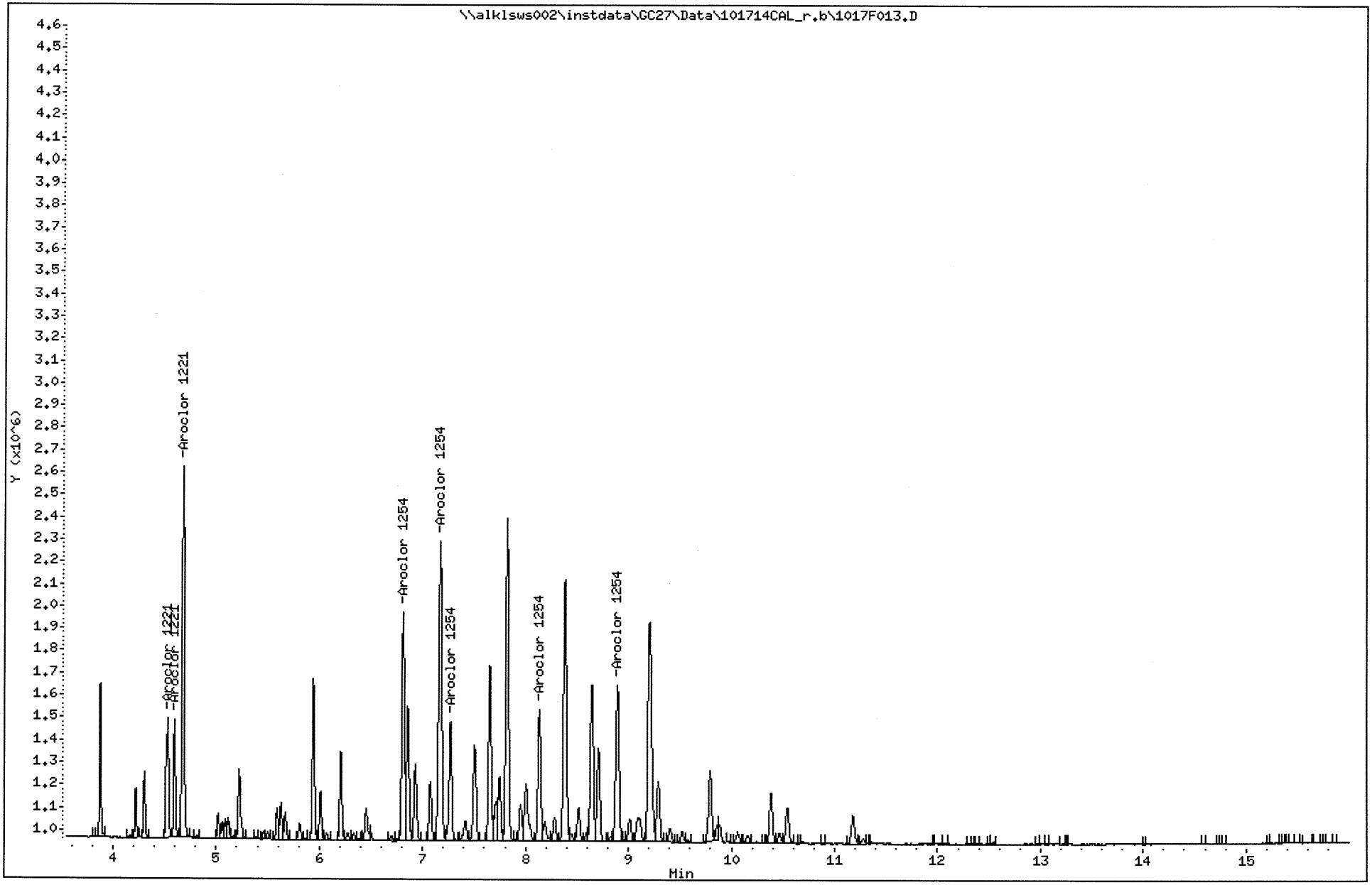
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F013.D
Date : 18-OCT-2014 06:37
Client ID:
Sample Info: 2154 @ 1000-500ppb PCB6-540

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Inj Date : 18-OCT-2014 07:00
Sample Info: 2154 @ 2000-1000ppb PCB6-54N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.531	3652690	1797594	1860	1920	80.00- 120.00	100.00
	4.227	4.597	2497504	1185476	1830	1910	54.70- 82.05	68.37
	4.287	4.677	8566409	4058447	1760	1800	187.62- 281.43	234.52
		Average of Peak Amounts =			1820	1880		
Aroclor 1254	6.340	6.811	3774162	3369665	970	917	80.00- 120.00	100.00
	6.784	7.171	6864509	5295207	946	914	145.51- 218.26	181.88
	6.940	7.267	13295143	1852600	908	956	281.81- 422.72	352.27
	7.284	8.134	9025215	2143920	944	946	191.31- 286.96	239.13
	7.904	8.894	6119244	2987946	966	952	129.71- 194.56	162.14
		Average of Peak Amounts =			947	937		

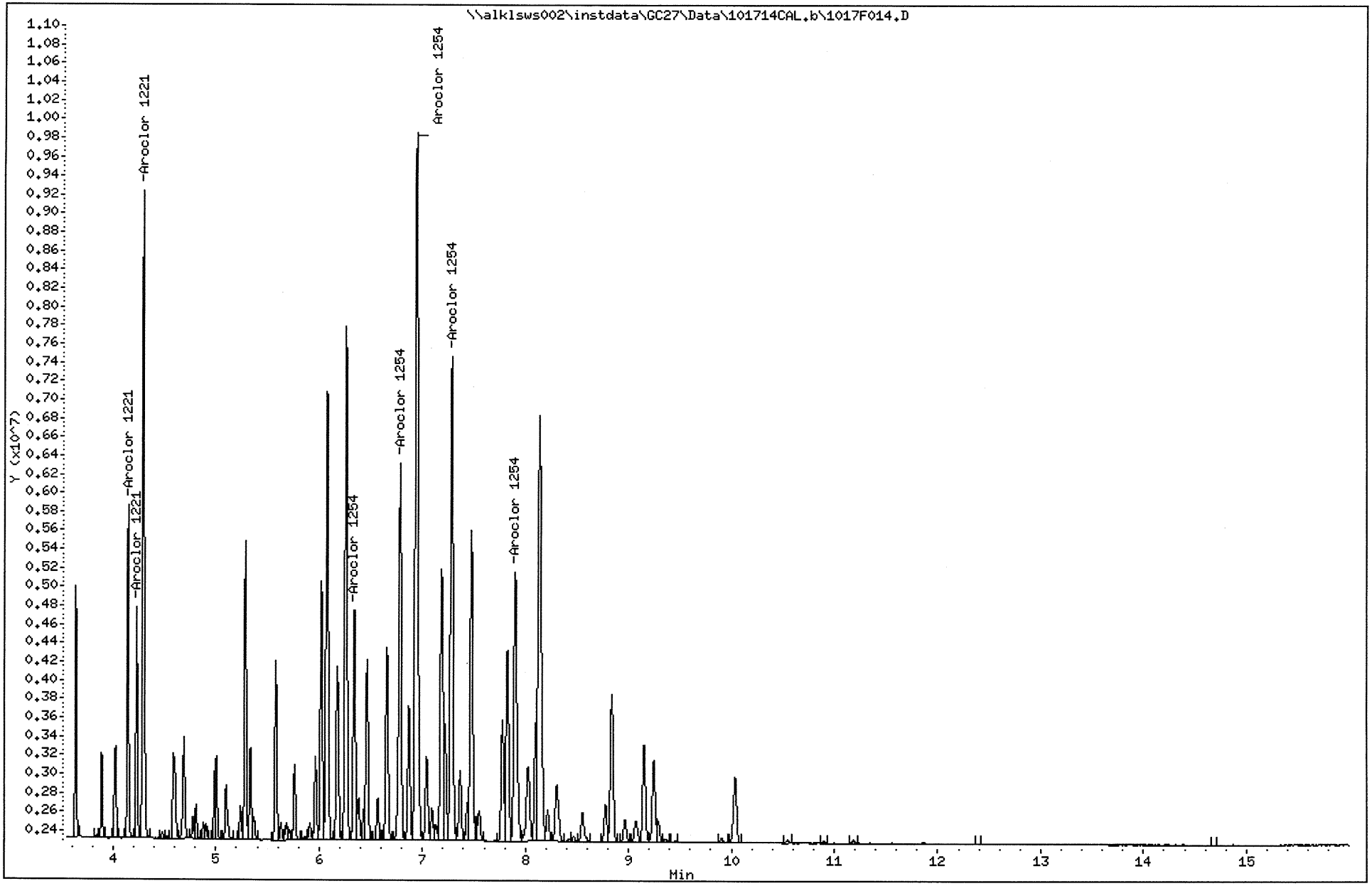
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

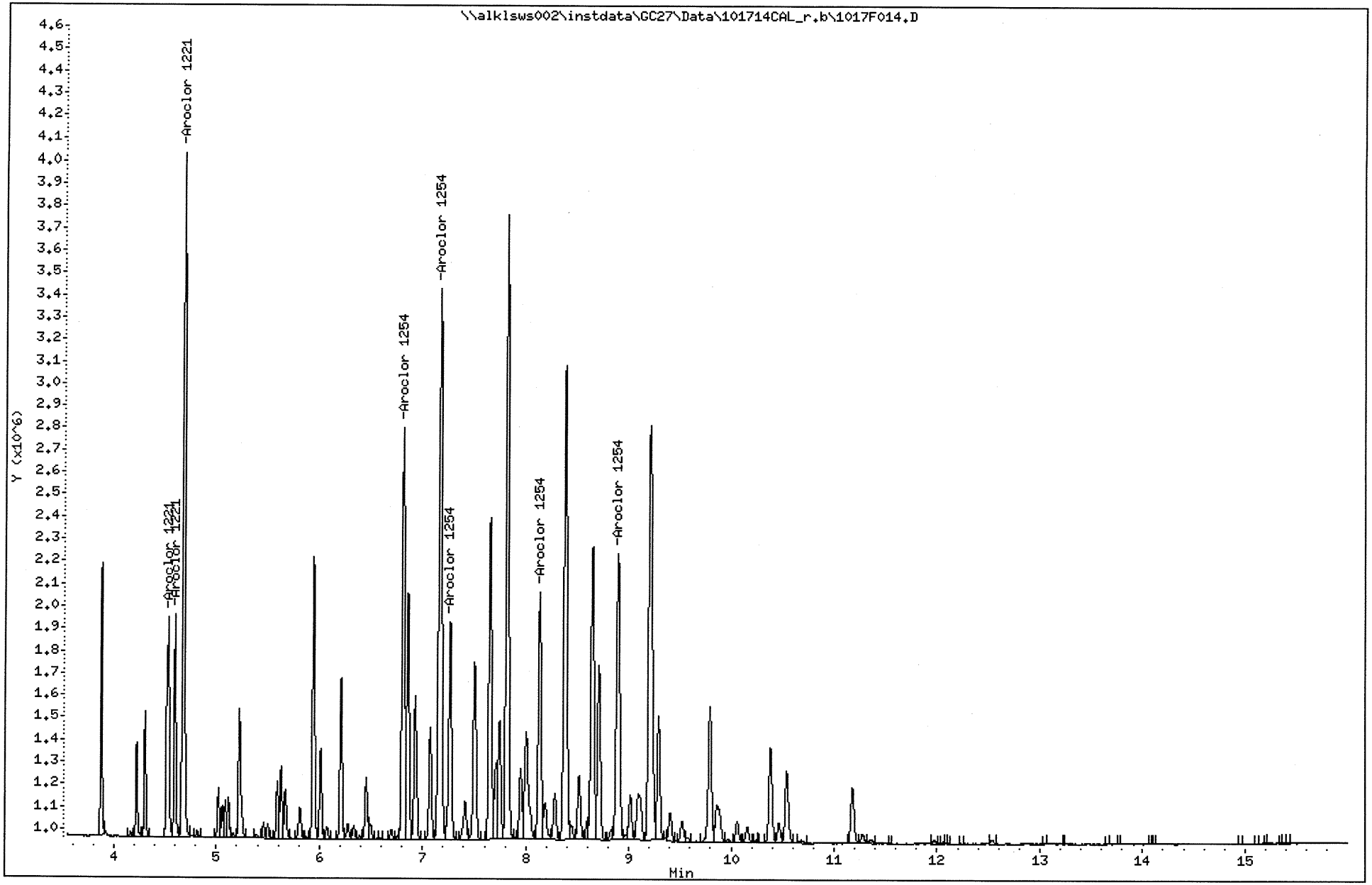


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F014.D
Date : 18-OCT-2014 07:00
Client ID:
Sample Info: 2154 @ 2000-1000ppb PCB6-54N

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Inj Date : 18-OCT-2014 07:23
Sample Info: 2154 @ 4000-2000ppb PCB6-54M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	6888825	3393845	3520	3630	80.00- 120.00	100.00
	4.228	4.595	4664299	2208050	3420	3550	54.17- 81.25	67.71
	4.288	4.678	16163475	7679887	3320	3410	187.71- 281.56	234.63
		Average of Peak Amounts =			3420	3530		
Aroclor 1254	6.341	6.811	7478713	6322189	1920	1720	80.00- 120.00	100.00
	6.785	7.168	13782957	9808755	1900	1690	147.44- 221.16	184.30
	6.941	7.268	26827710	3445517	1830	1780	286.98- 430.47	358.72
	7.285	8.131	18155897	4027077	1900	1780	194.21- 291.32	242.77
	7.901	8.895	12465112	5704530	1970	1820	133.34- 200.01	166.67
		Average of Peak Amounts =			1900	1760		

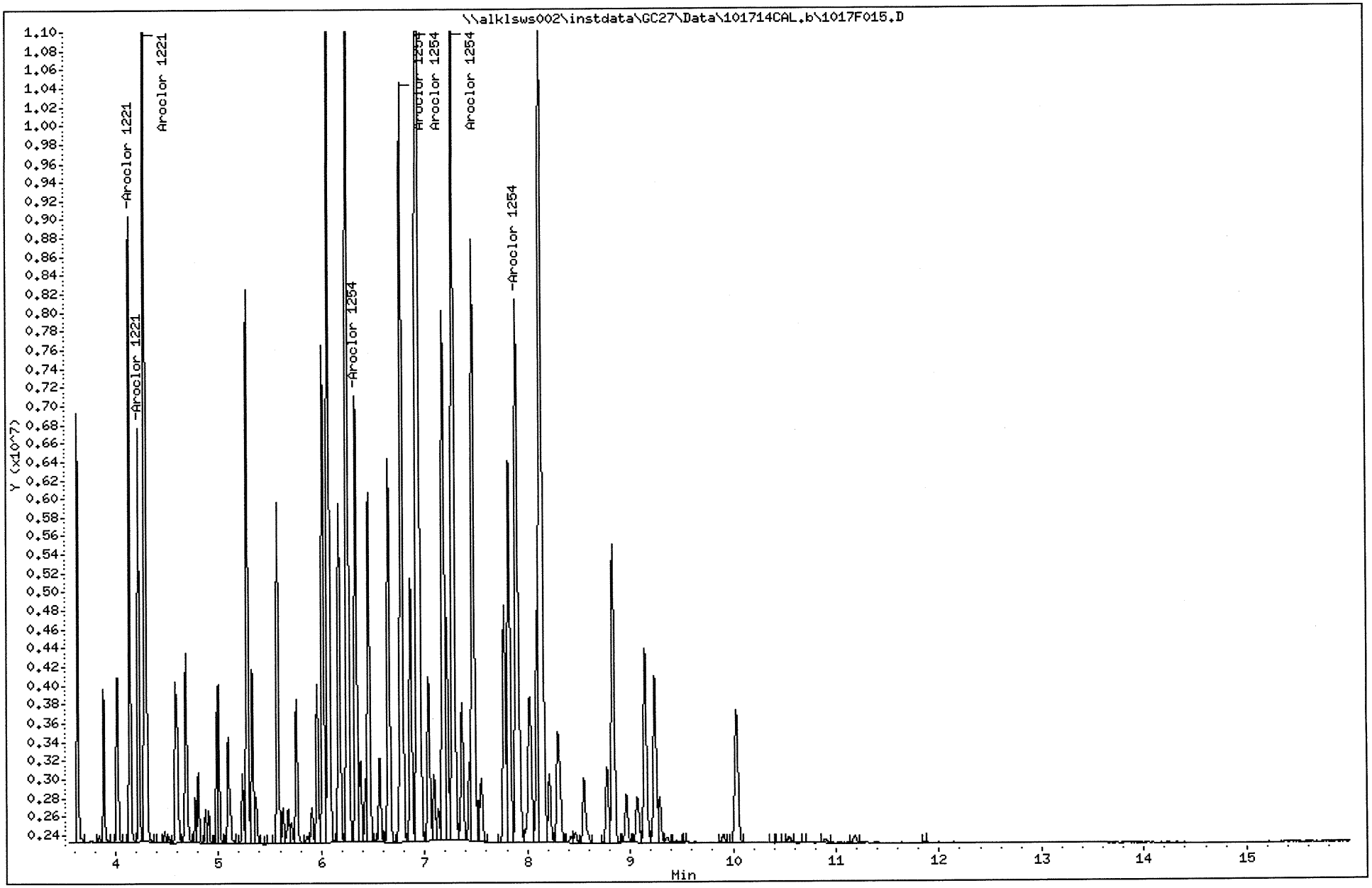
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



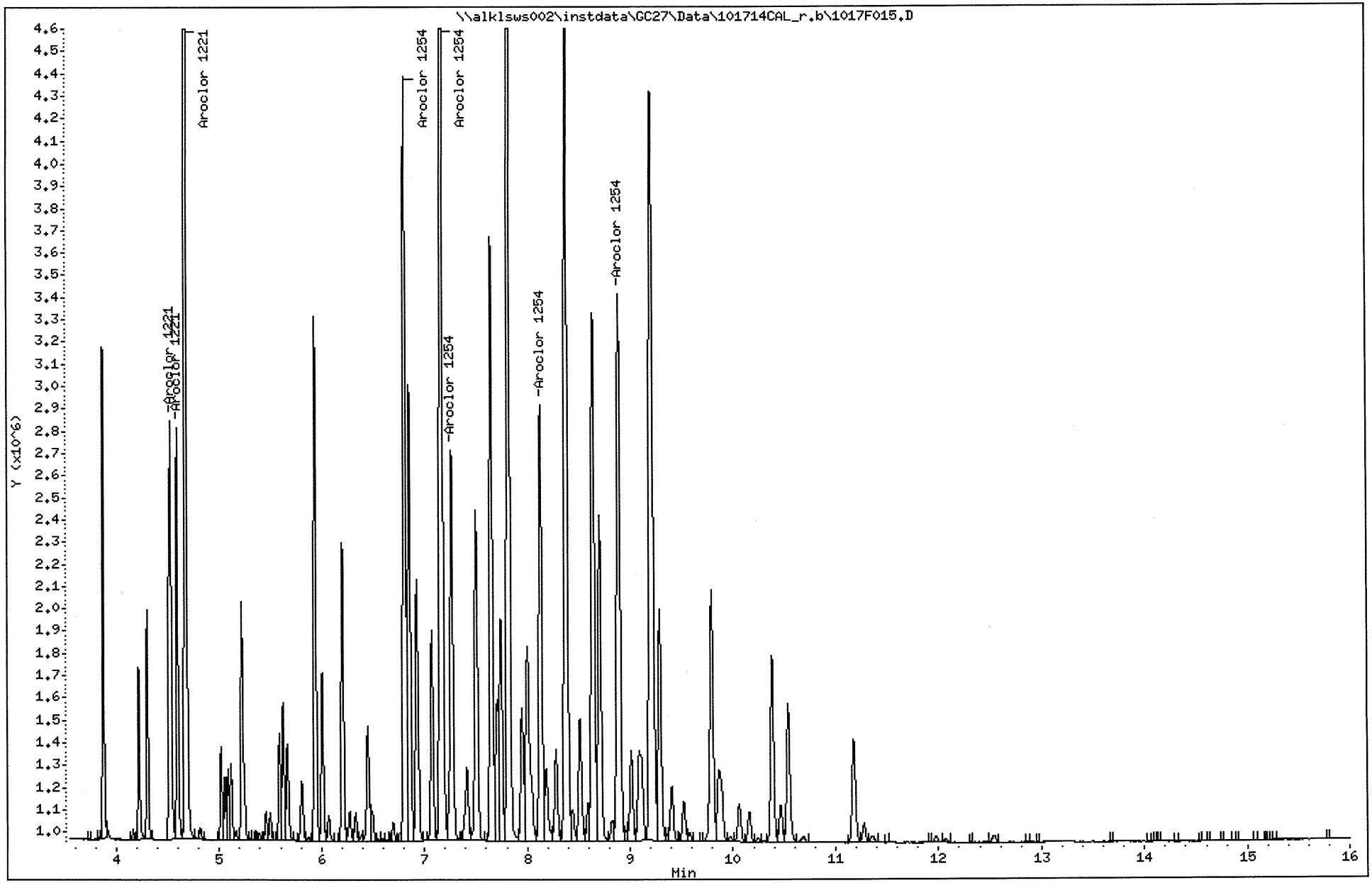
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F015.D
Date : 18-OCT-2014 07:23
Client ID:
Sample Info: 2154 @ 4000-2000ppb PCB6-54M

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Inj Date : 18-OCT-2014 07:47
Sample Info: 2154 @ 10000-5000ppb PCB6-54L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 2154.sub
Sub List #2 : 2154.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.140	4.530	14559842	7888917	7430	8440	80.00- 120.00	100.00
	4.227	4.597	9655775	5055955	7090	8140	53.05- 79.58	66.32
	4.290	4.677	34144102	17984808	7020	7990	187.61- 281.41	234.51
			Average of Peak Amounts =		7180	8190		
Aroclor 1254	6.343	6.810	16041321	14953675	4120	4070	80.00- 120.00	100.00
	6.787	7.170	30543060	23597361	4210	4070	152.32- 228.48	190.40
	6.943	7.267	60091538	8219285	4110	4240	299.68- 449.53	374.60
	7.283	8.133	40092627	9382040	4190	4140	199.95- 299.92	249.93
	7.903	8.893	27782053	13908315	4390	4430	138.55- 207.83	173.19
			Average of Peak Amounts =		4200	4190		

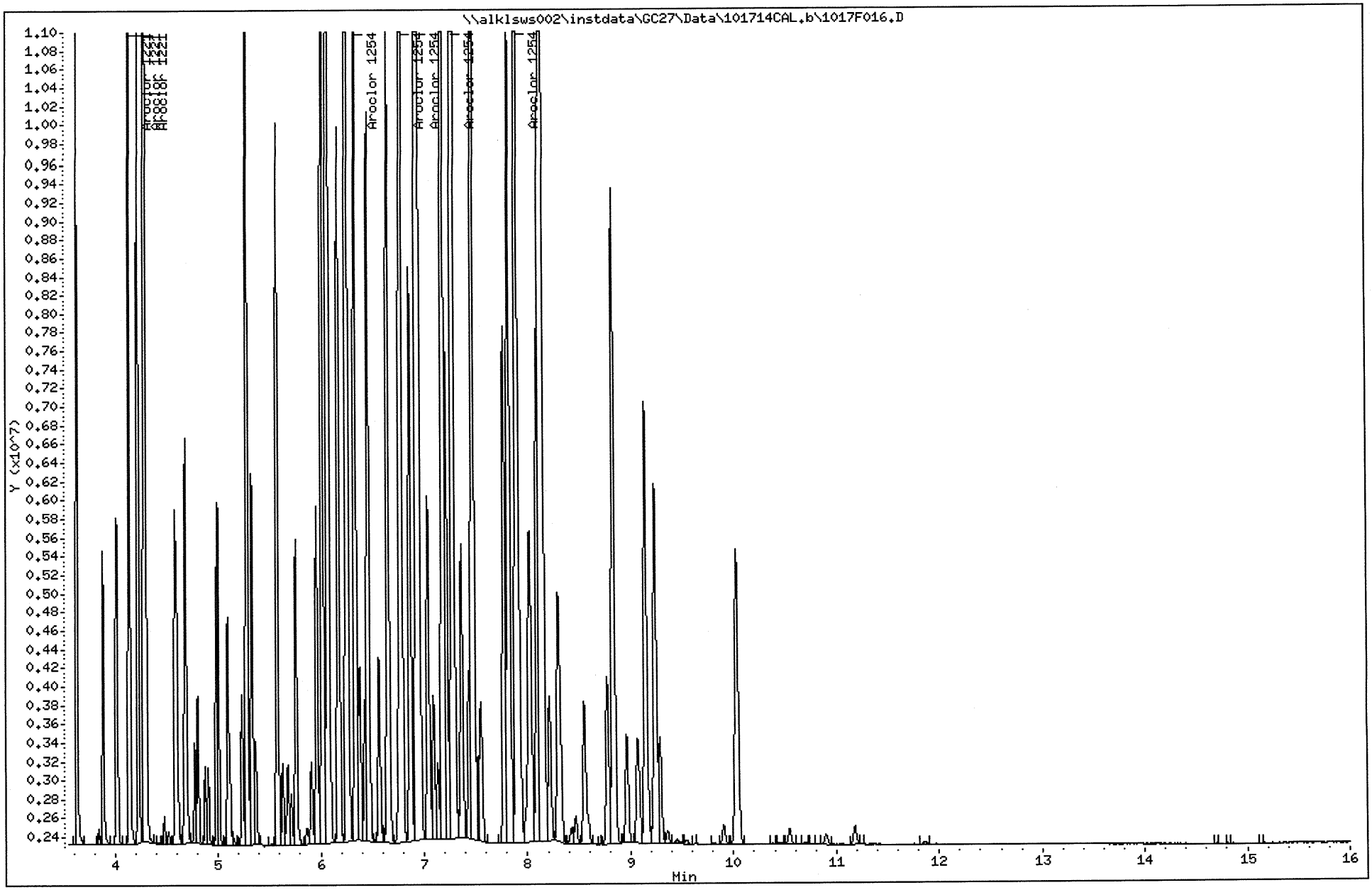
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



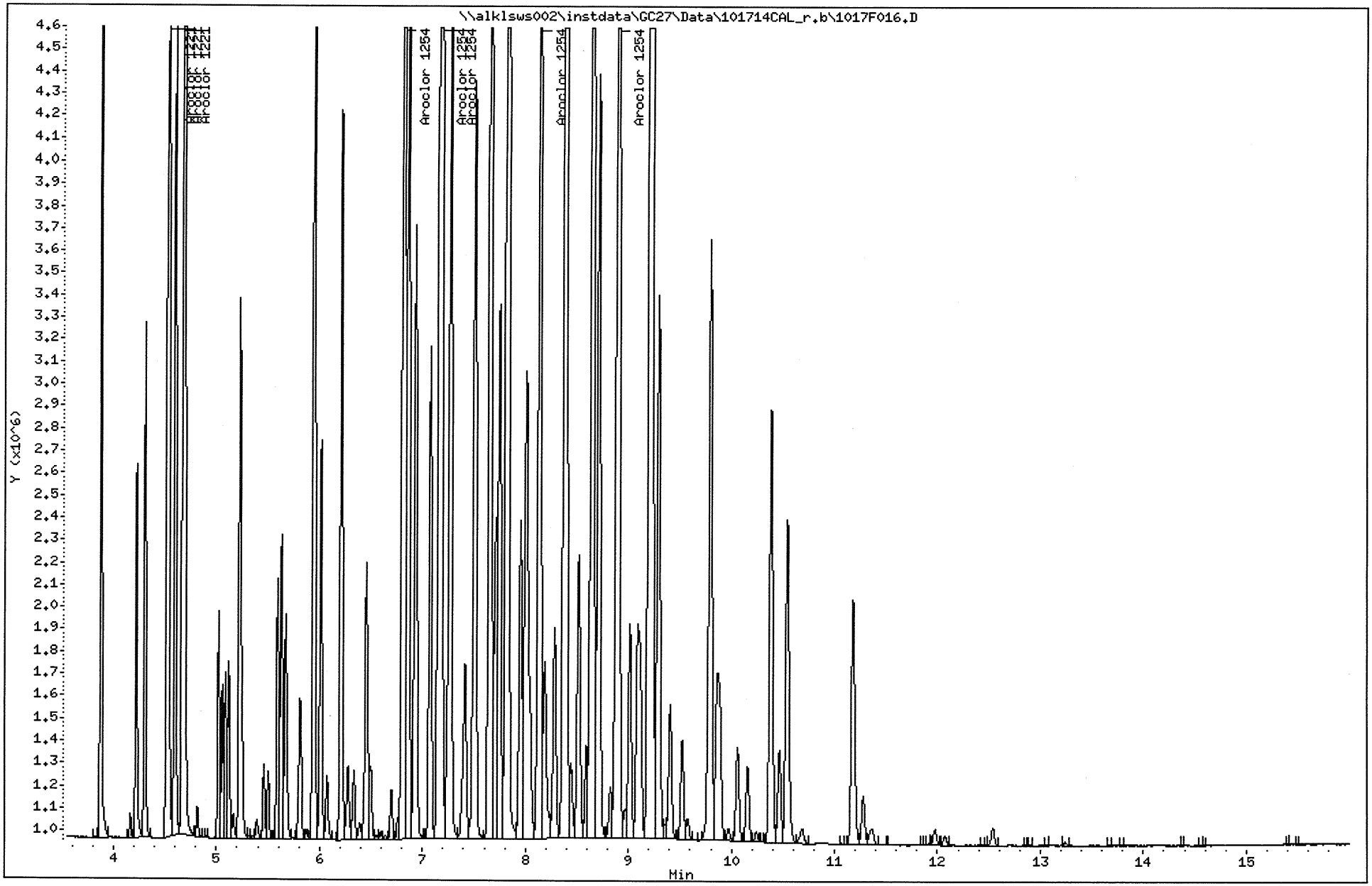
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F016.D
Date : 18-OCT-2014 07:47
Client ID:
Sample Info: 2154 @ 10000-5000ppb PCB6-54L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Inj Date : 18-OCT-2014 08:09
Sample Info: 3262 @ 25ppb PCB6-57N
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.142	4.679	39916	54371	27.3	28.4	80.00- 120.00	100.00(M)
	4.288	5.022	126463	26898	28.6	26.9	253.46- 380.19	316.82(M)
	4.585	5.225	116725	25613	29.9	29.0	233.94- 350.91	292.43(M)
	5.005	5.592	122037	44114	26.7	28.8	244.59- 366.88	305.73(M)
	5.098	6.009	78292	21387	25.8	25.9	156.91- 235.37	196.14(M)
		Average of Peak Amounts =			27.7	27.8		
Aroclor 1262	8.218	9.405	387501	163099	28.7	28.2	80.00- 120.00	100.00
	8.775	9.859	339218	113694	28.8	28.1	70.03- 105.05	87.54
	9.242	10.539	669515	266841	29.0	27.6	138.22- 207.33	172.78
	10.038	11.199	488083	187155	28.1	27.9	100.77- 151.15	125.96
	11.182	12.539	229729	101532	27.6	27.9	47.43- 71.14	59.28
		Average of Peak Amounts =			28.4	27.9		

QC Flag Legend

M - Compound response manually integrated.

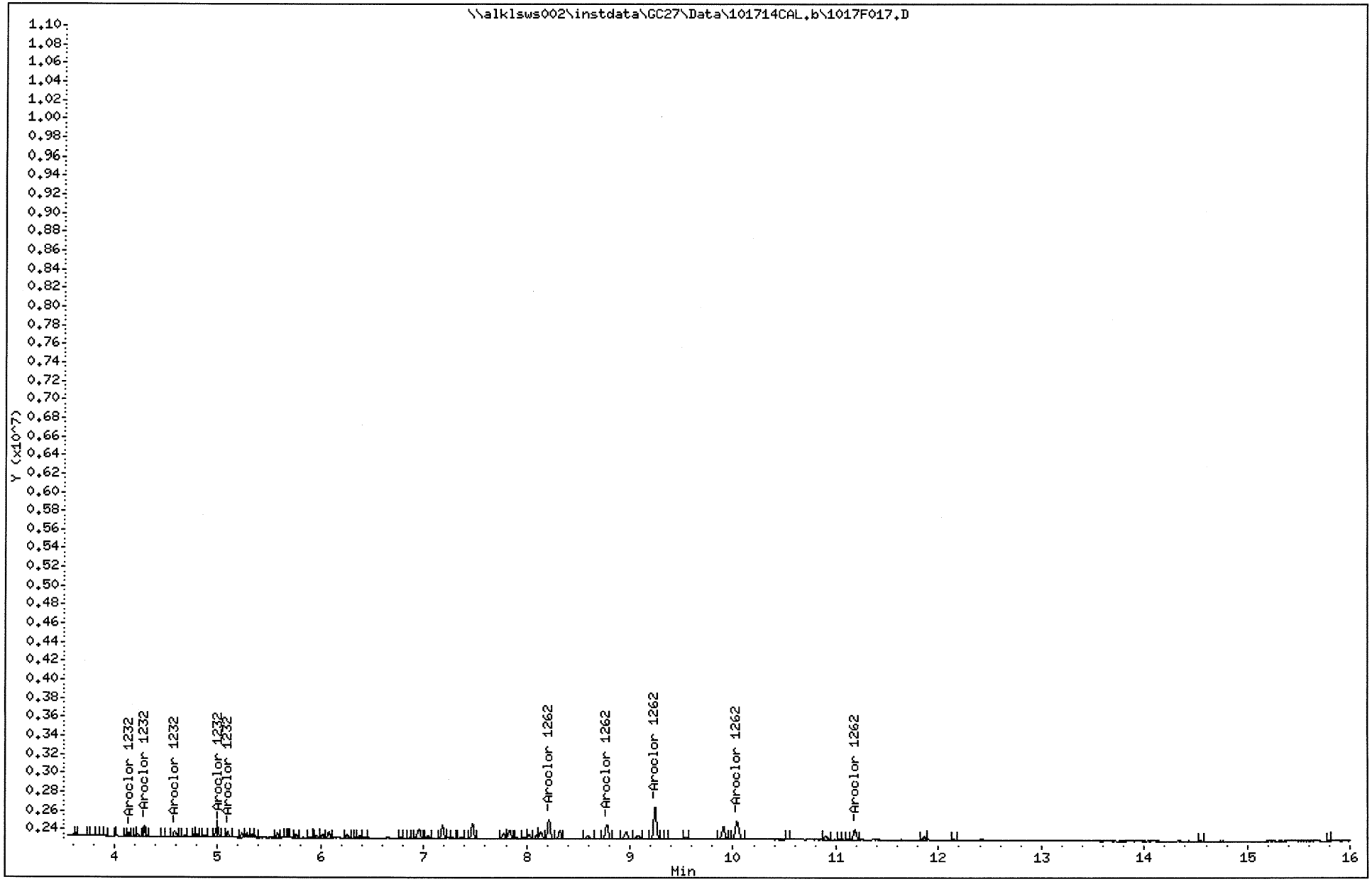
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



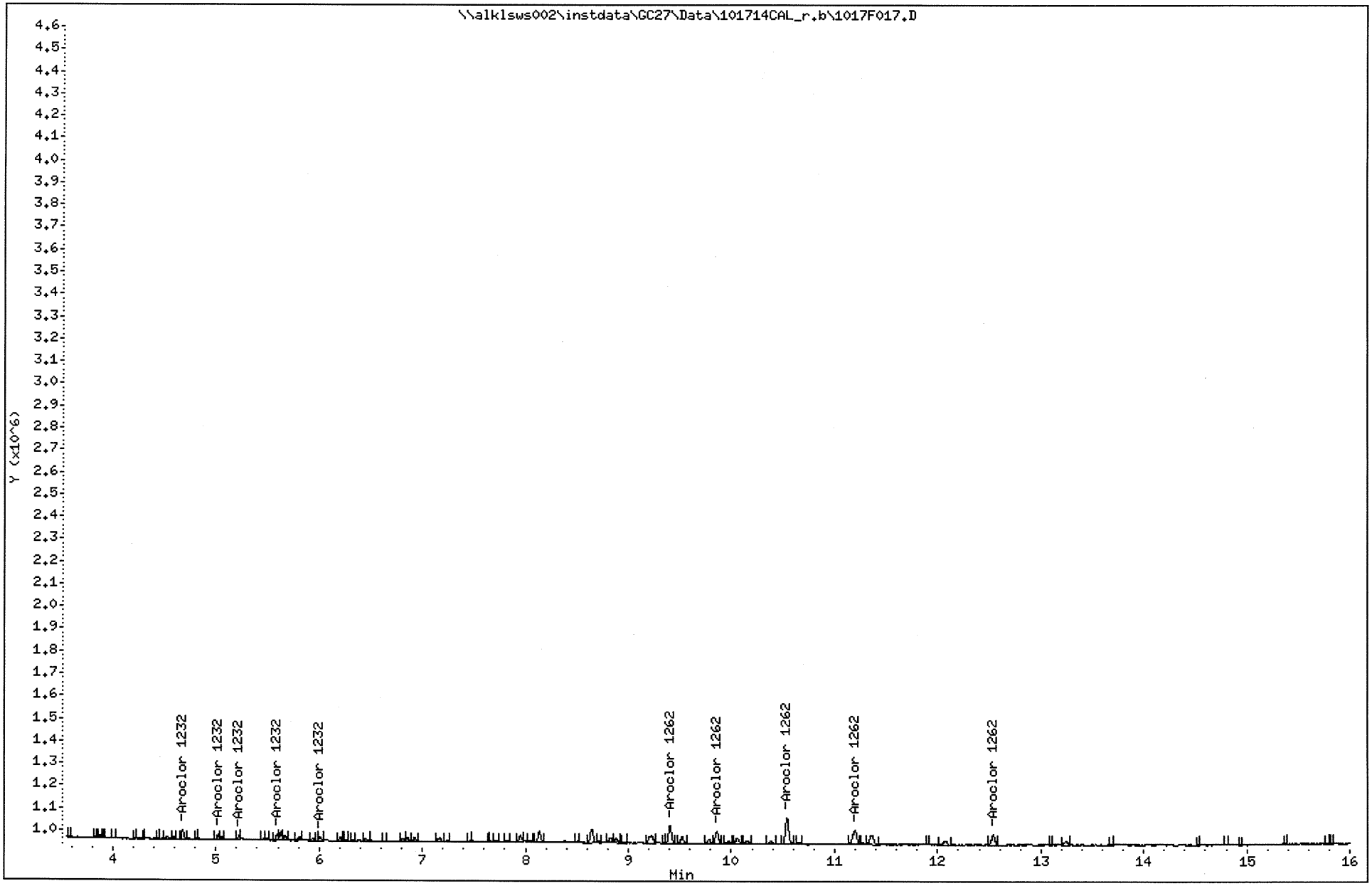
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Date : 18-OCT-2014 08:09
Client ID:
Sample Info: 3262 @ 25ppb PCB6-57N

Instrument: GC27.i

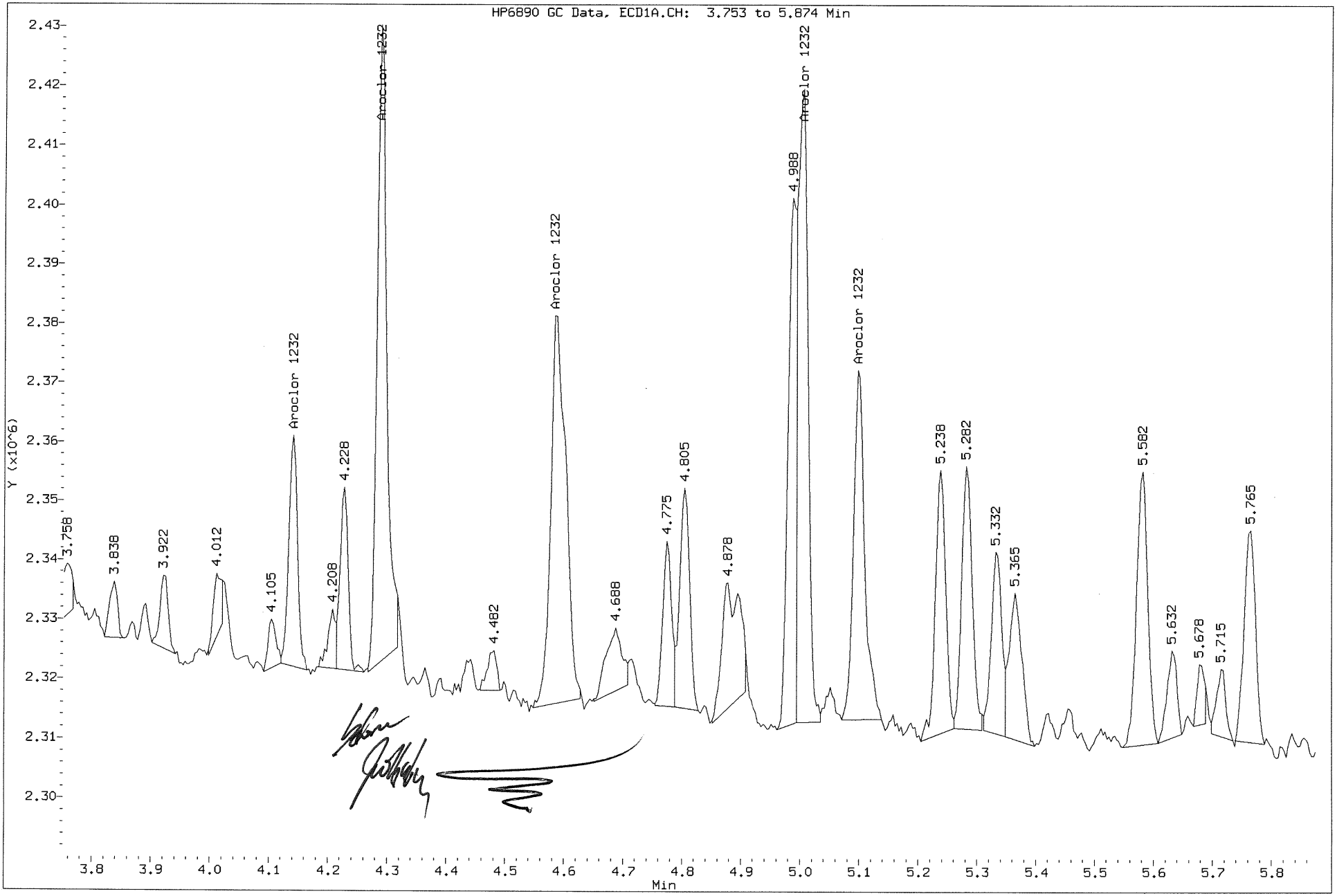
Operator: JMSmith

Column phase: DB-XLB

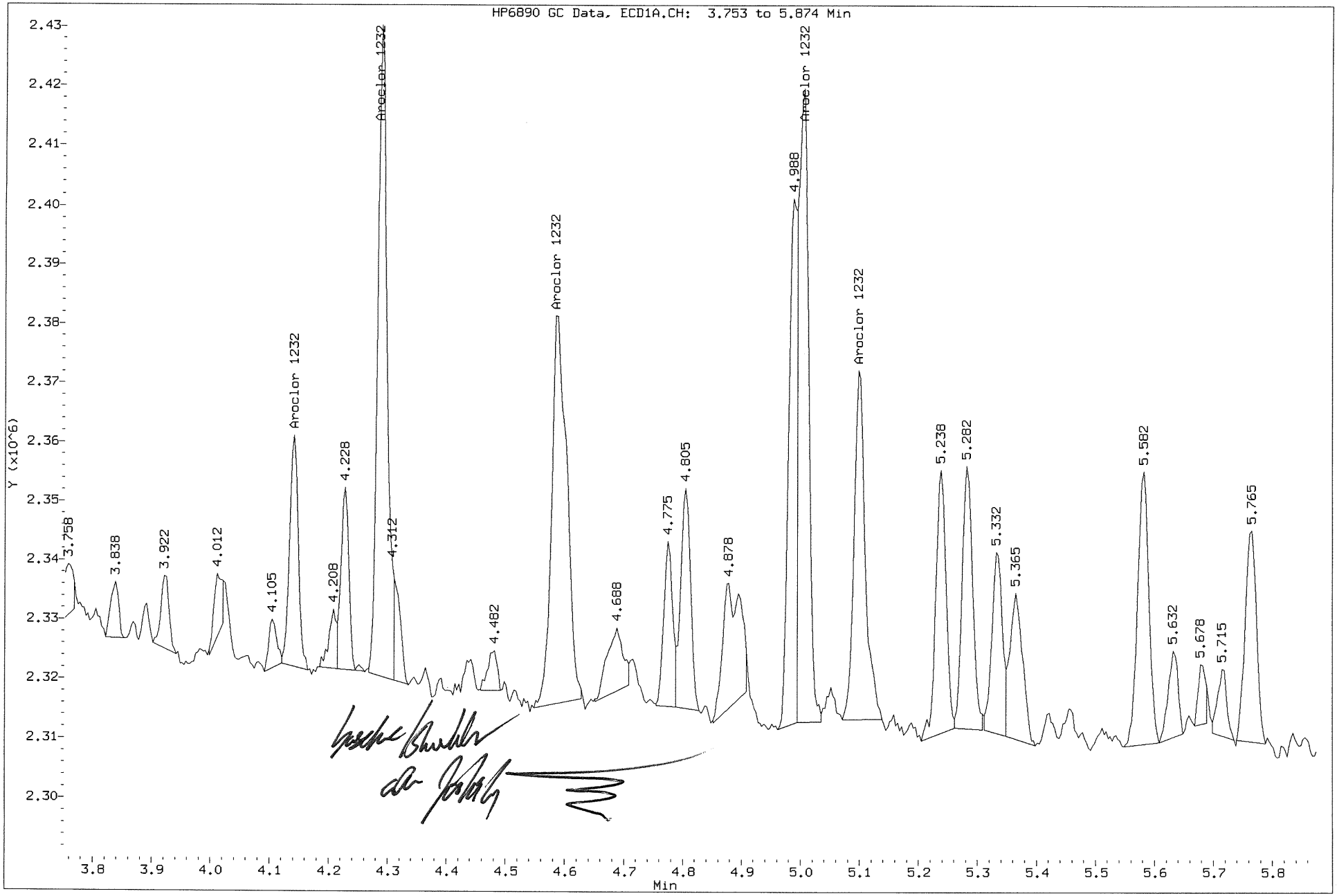
Column diameter: 0.32



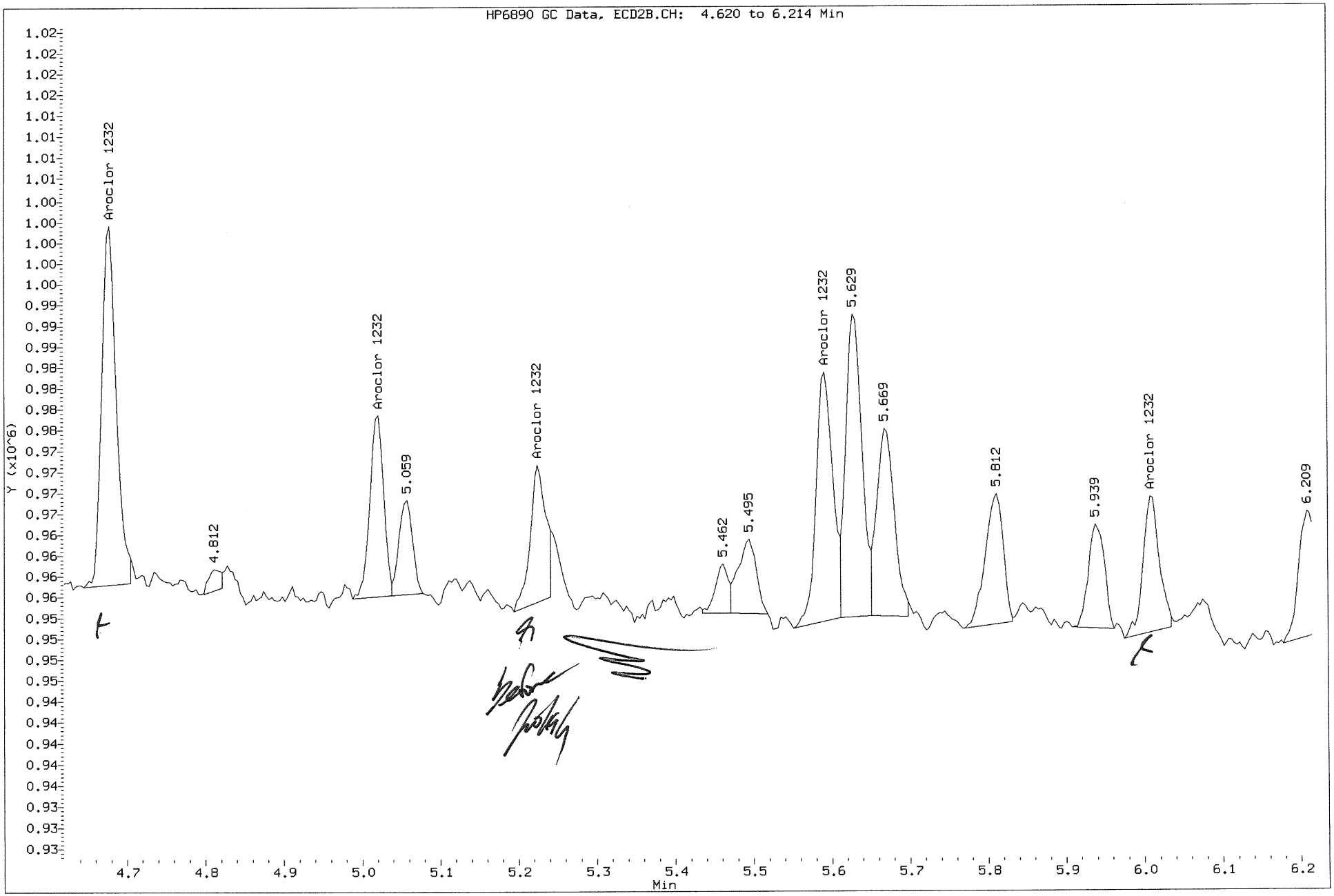
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



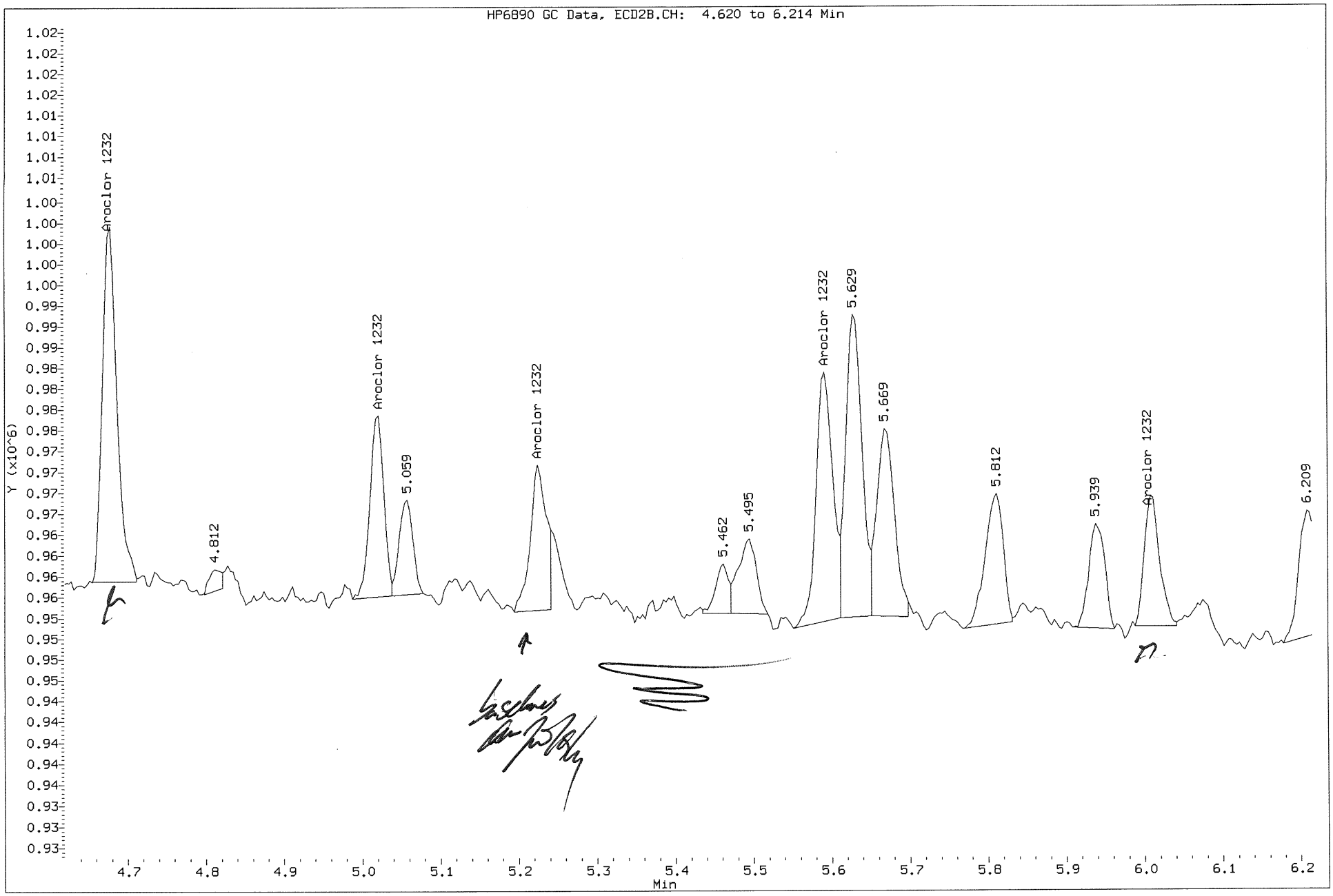
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F017.D
Injection Date: 18-OCT-2014 08:09
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Inj Date : 18-OCT-2014 08:32
Sample Info: 3262 @ 50ppb PCB6-57M
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	77462	108561	53.0	56.6	80.00- 120.00	100.00
	4.289	5.020	245539	51650	55.6	51.7	253.58- 380.38	316.98
	4.586	5.223	202369	47847	51.9	54.1	209.00- 313.50	261.25
	5.003	5.590	234930	87345	51.5	56.9	242.63- 363.94	303.28
	5.099	6.006	157430	45546	51.8	55.2	162.59- 243.88	203.24
		Average of Peak Amounts =			52.8	54.9		
Aroclor 1262	8.216	9.403	755843	331344	56.0	57.3	80.00- 120.00	100.00
	8.776	9.860	644045	231830	54.7	57.2	68.17- 102.25	85.21
	9.243	10.540	1263555	543254	54.7	56.3	133.74- 200.61	167.17
	10.039	11.200	932687	374458	53.7	55.9	98.72- 148.08	123.40
	11.183	12.540	421796	204891	50.6	56.3	44.64- 66.97	55.80
		Average of Peak Amounts =			53.9	56.6		

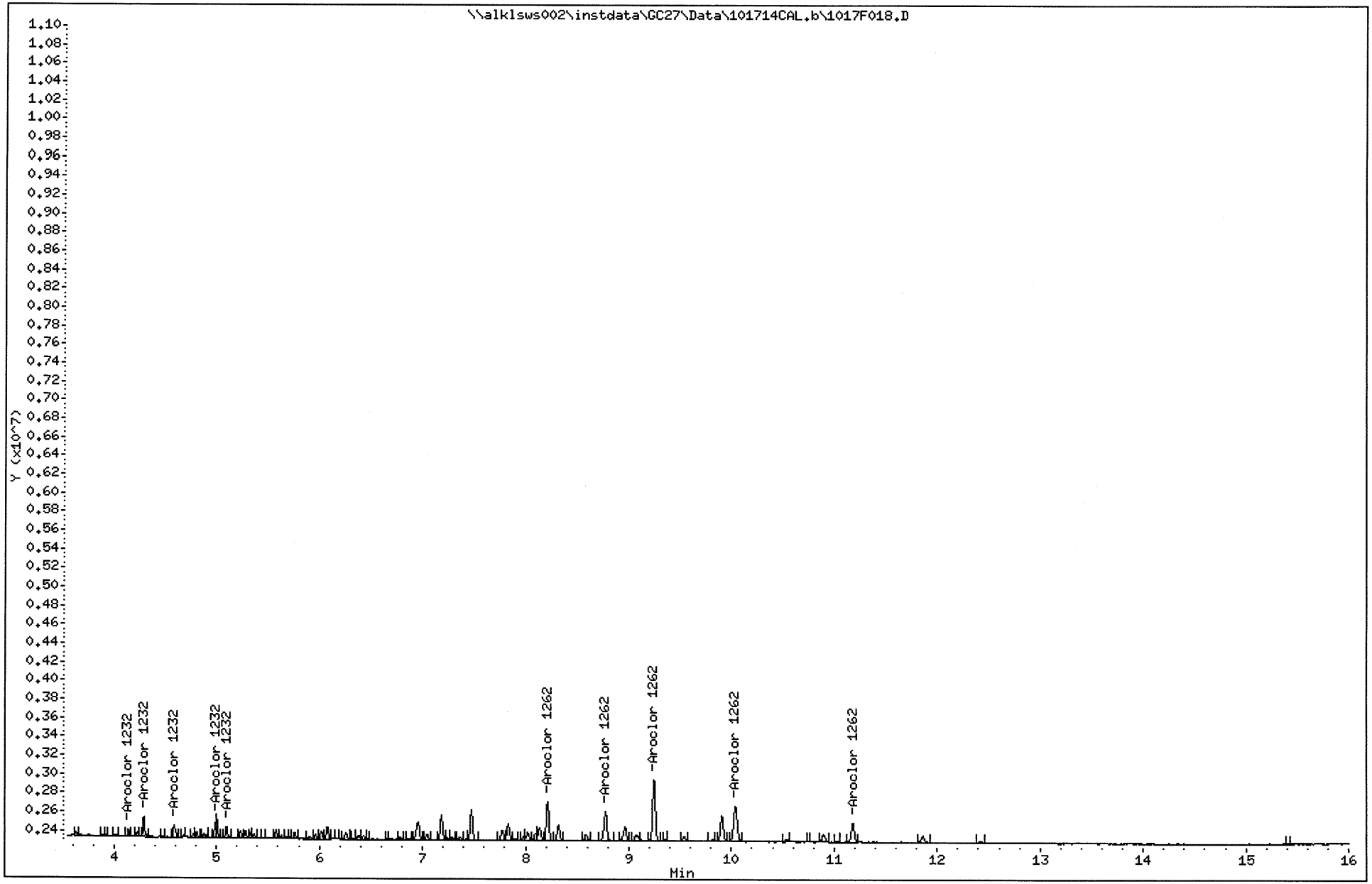
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

Instrument: GC27.i

Operator: JMSmith

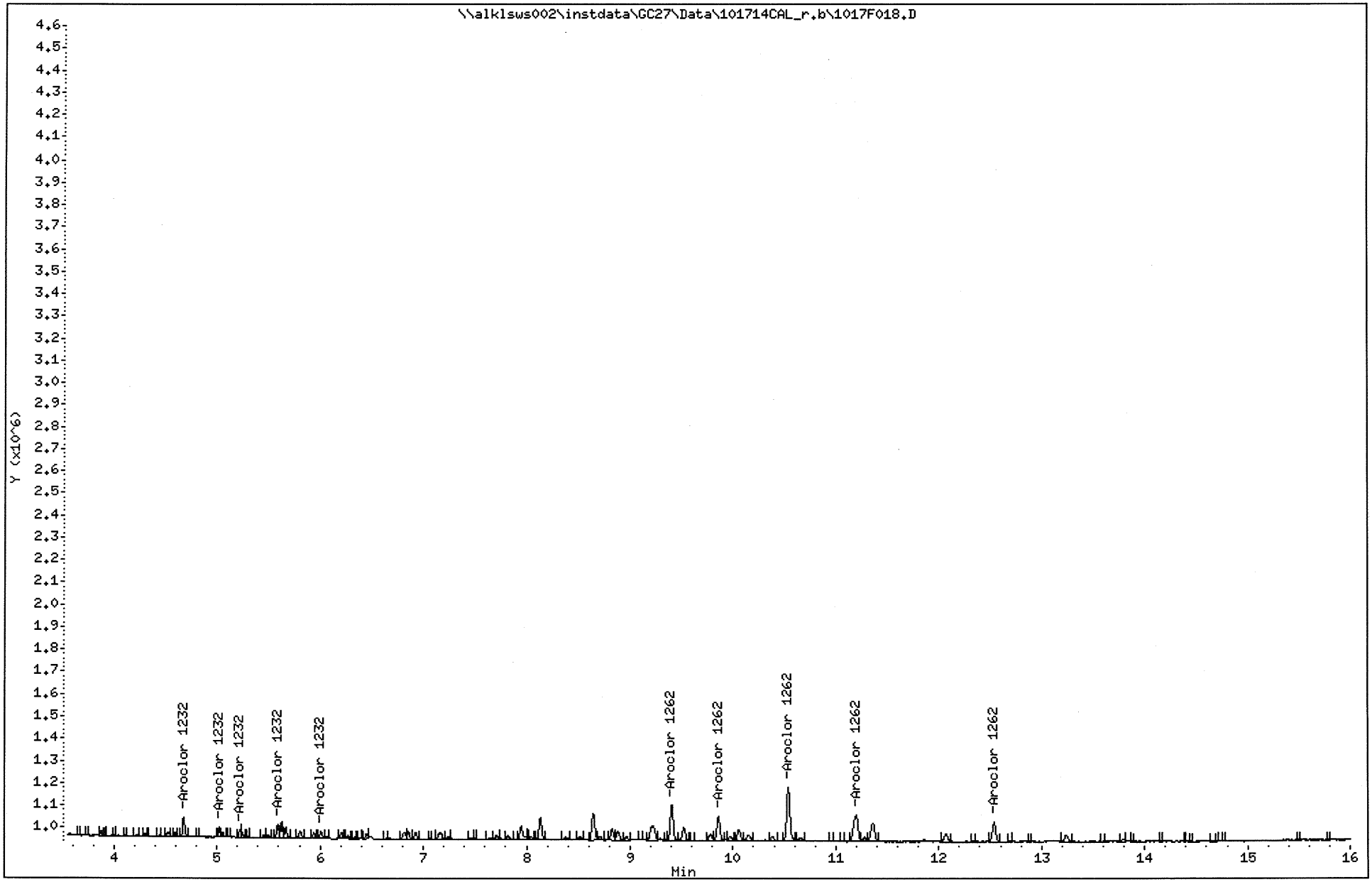
Column phase: DB-35MS

Column diameter: 0.32

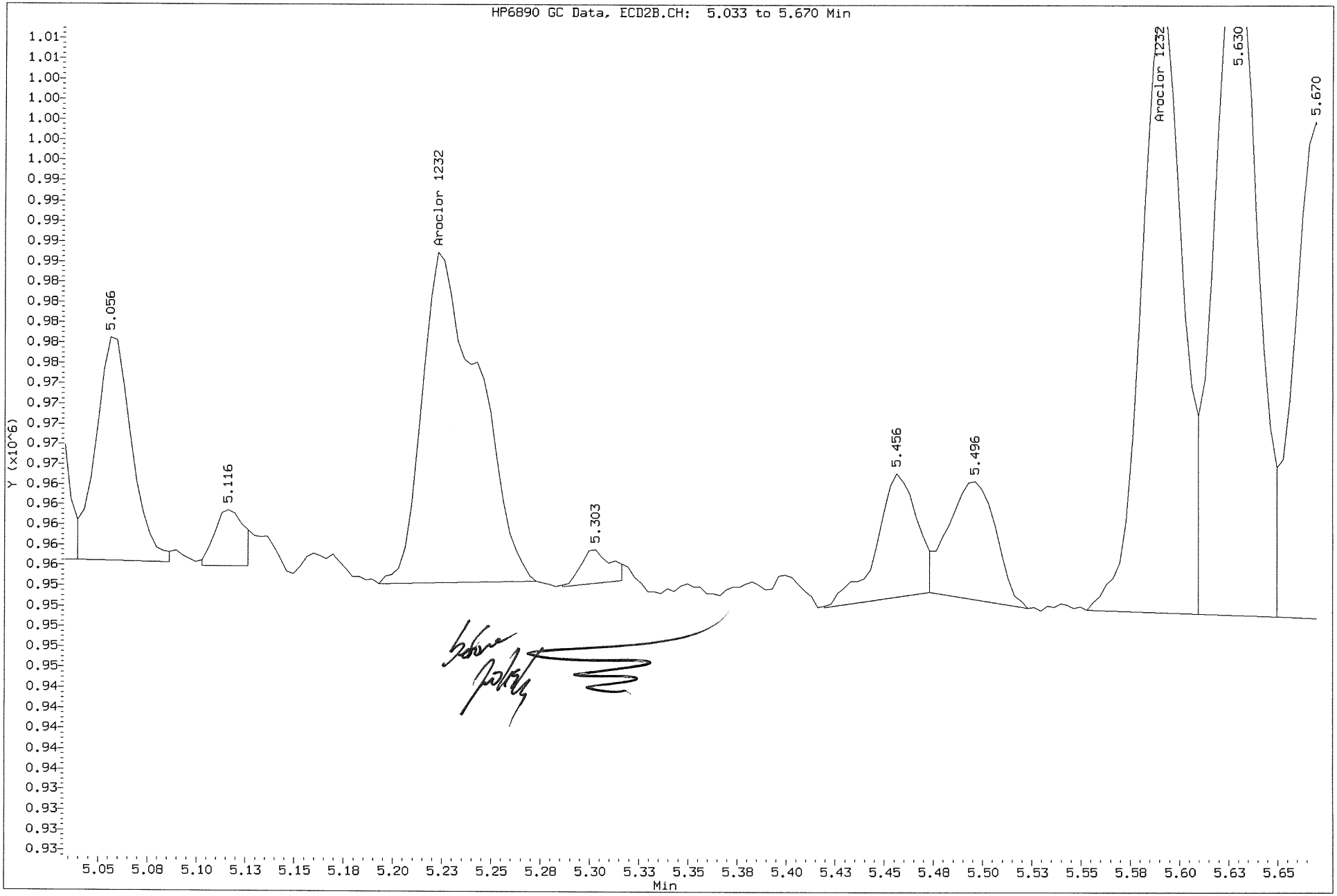


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Date : 18-OCT-2014 08:32
Client ID:
Sample Info: 3262 @ 50ppb PCB6-57M

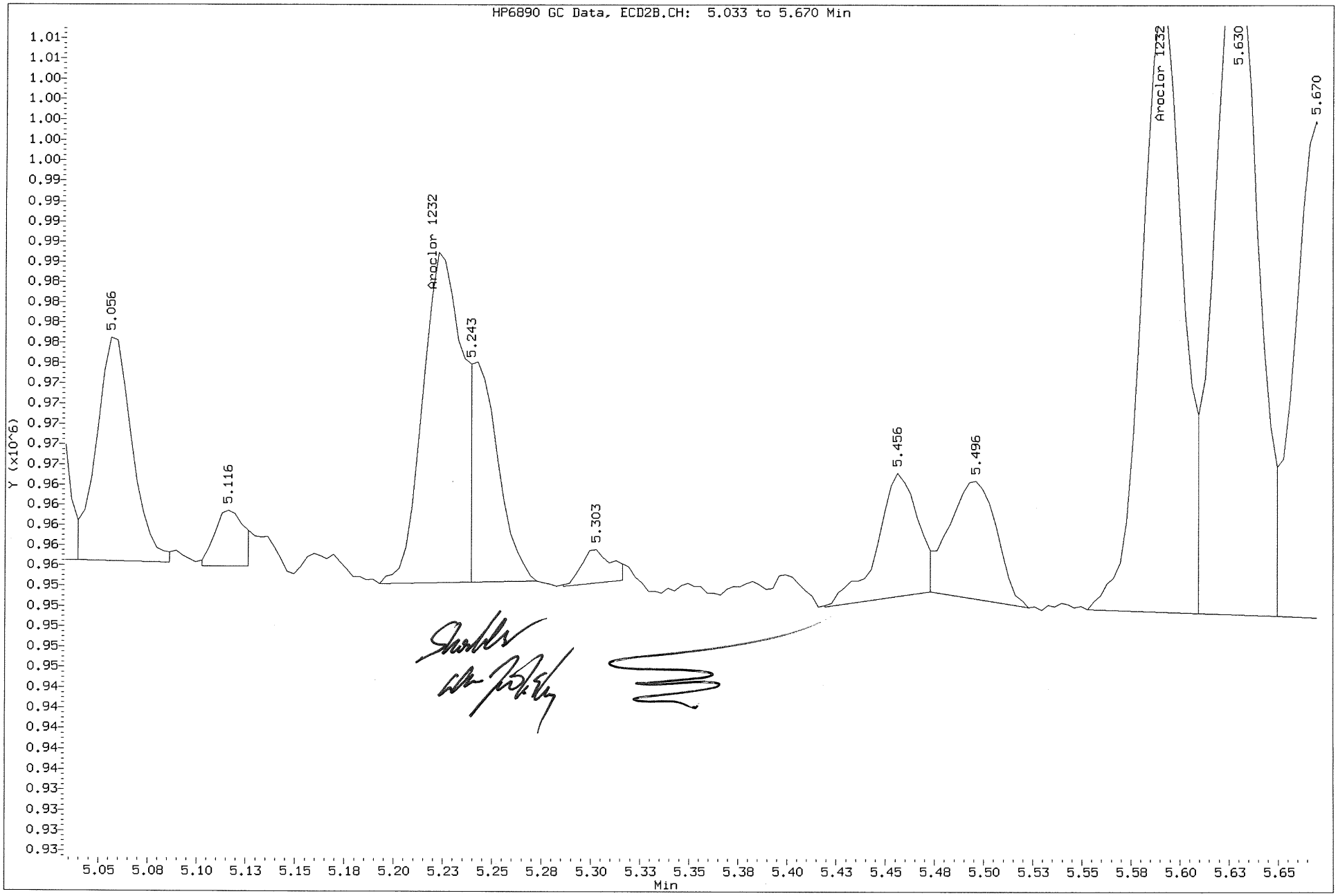
Instrument: GC27.i
Operator: JMSmith
Column phase: DB-XLB
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F018.D
Injection Date: 18-OCT-2014 08:32
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Inj Date : 18-OCT-2014 08:55
Sample Info: 3262 @ 500ppb PCB6-57L
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	724232	1003551	495	523	80.00- 120.00	100.00
	4.289	5.019	2161394	540390	489	541	238.75- 358.13	298.44
	4.586	5.223	1932226	447118	496	506	213.44- 320.16	266.80
	5.003	5.589	2306645	801550	505	523	254.80- 382.19	318.50
	5.099	6.009	1569925	440621	517	534	173.42- 260.13	216.77
			Average of Peak Amounts =		500	525		
Aroclor 1262	8.216	9.406	6613534	2974758	490	514	80.00- 120.00	100.00
	8.776	9.859	5828905	2075447	495	512	70.51- 105.76	88.14
	9.243	10.539	11132906	4816141	482	499	134.67- 202.00	168.34
	10.036	11.199	8639828	3407621	498	509	104.51- 156.77	130.64
	11.183	12.539	4250633	1832020	510	503	51.42- 77.13	64.27
			Average of Peak Amounts =		495	507		

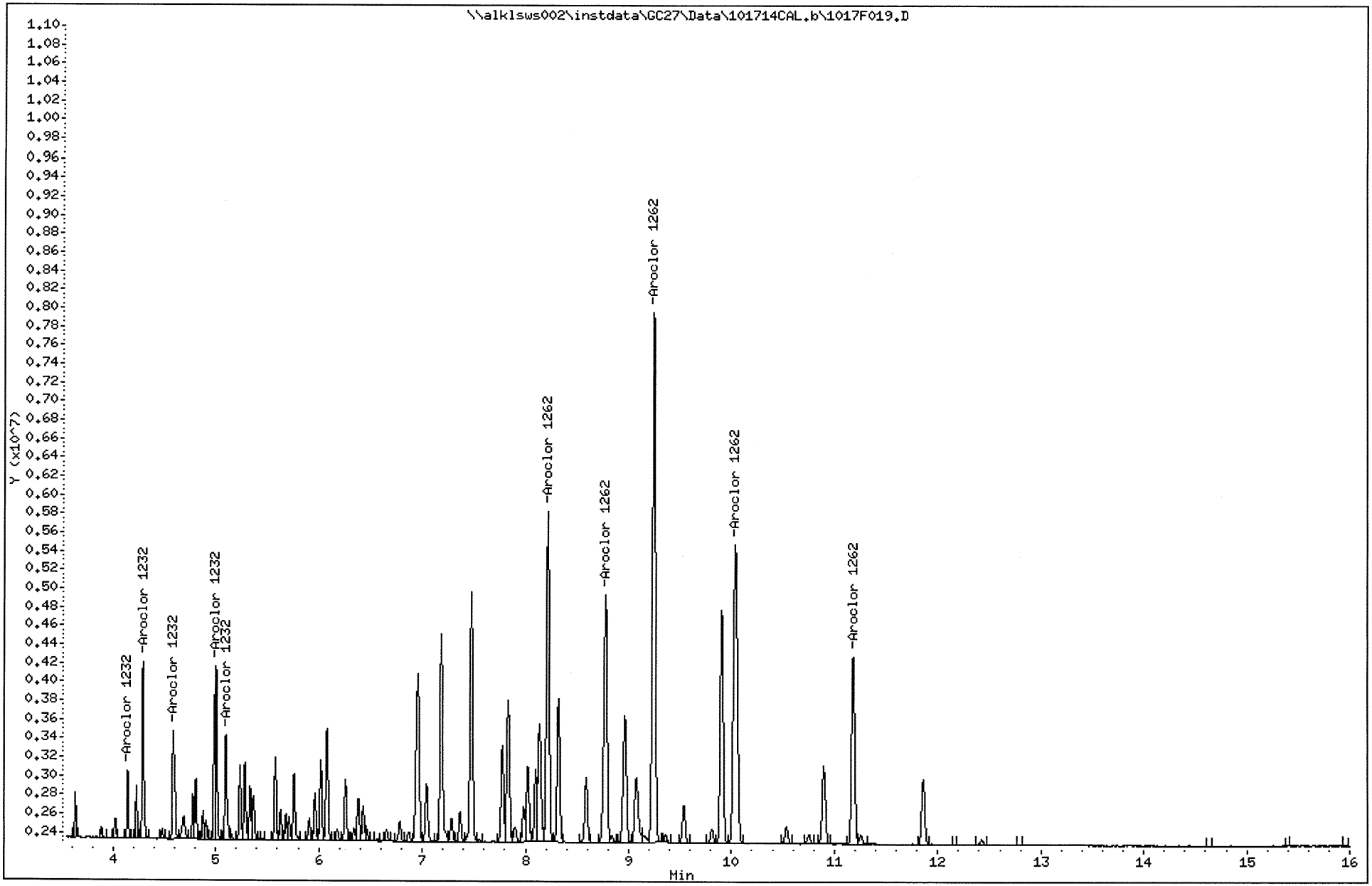
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



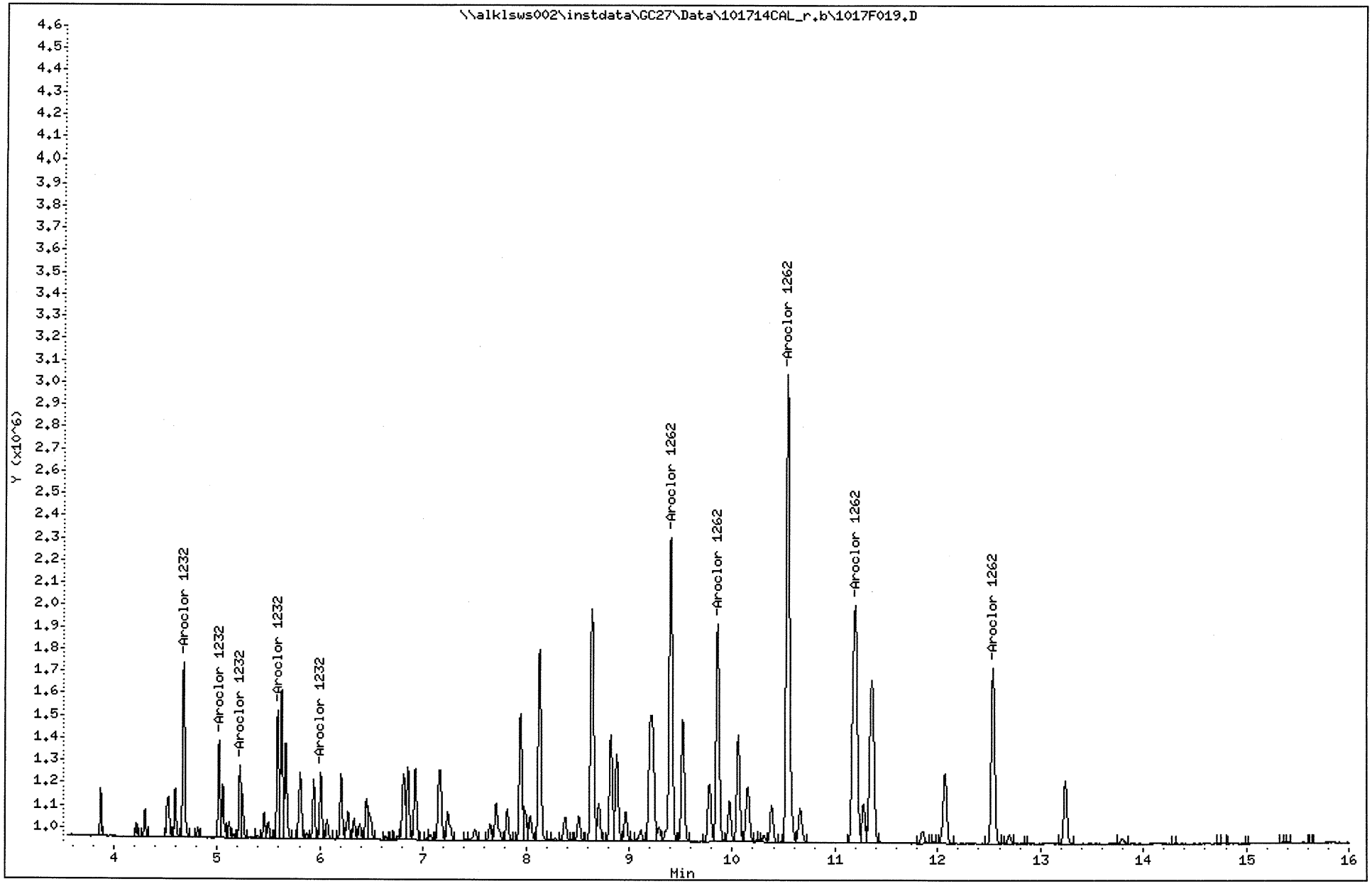
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Date : 18-OCT-2014 08:55
Client ID:
Sample Info: 3262 @ 500ppb PCB6-57L

Instrument: GC27.i

Operator: JMSmith

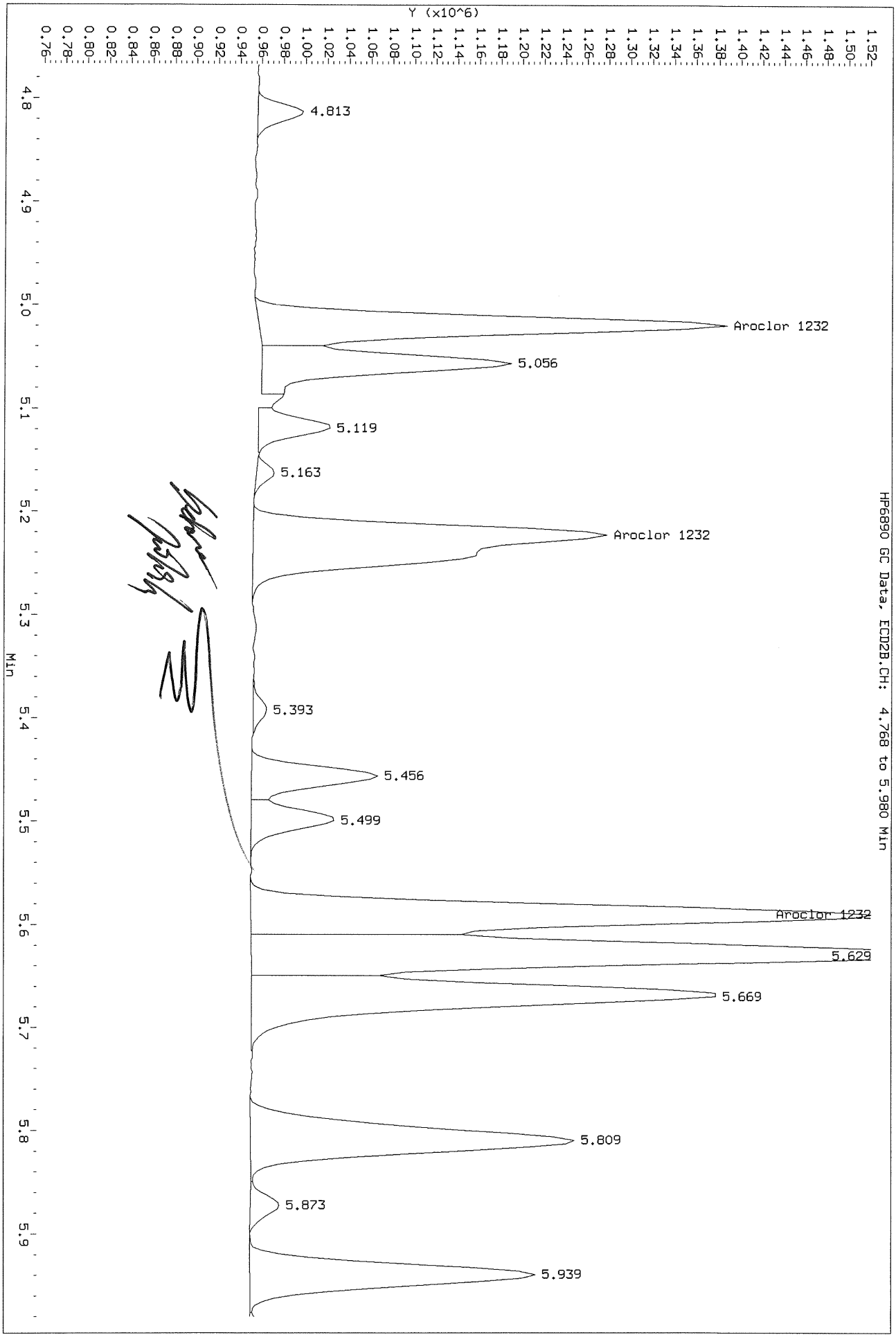
Column phase: DB-XLB

Column diameter: 0.32

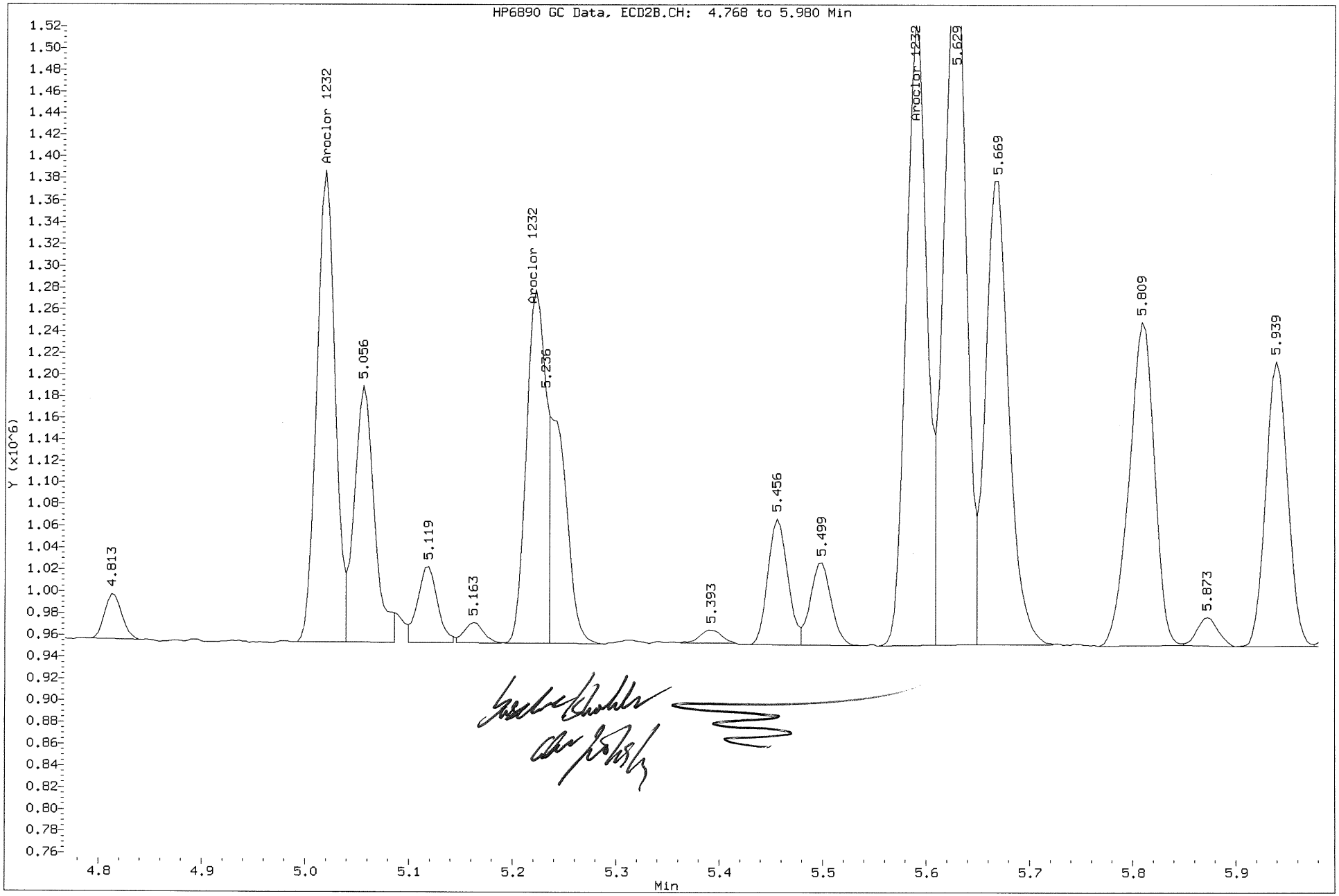


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.768 to 5.980 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F019.D
Injection Date: 18-OCT-2014 08:55
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Report Date: 19-Oct-2014 04:52

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Inj Date : 18-OCT-2014 09:18
Sample Info: 3262 @ 1000ppb PCB6-57K
Misc Info :
Cal Date : 19-OCT-2014 04:52
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.140	4.677	1399788	1827478	957	953	80.00- 120.00	100.00
	4.287	5.021	4046209	994393	916	996	231.25- 346.87	289.06
	4.587	5.224	3596252	842123	923	953	205.53- 308.30	256.91
	5.004	5.591	4621097	1428809	1010	932	264.10- 396.15	330.13
	5.097	6.011	2991895	820334	985	994	170.99- 256.49	213.74
		Average of Peak Amounts =			958	966		
Aroclor 1262	8.214	9.404	12400086	5453363	919	943	80.00- 120.00	100.00
	8.774	9.857	10955361	3878394	930	958	70.68- 106.02	88.35
	9.240	10.537	21374350	9225686	926	956	137.90- 206.85	172.37
	10.037	11.197	16409929	6462434	945	965	105.87- 158.80	132.34
	11.180	12.541	8130577	3487461	976	958	52.45- 78.68	65.57
		Average of Peak Amounts =			939	956		

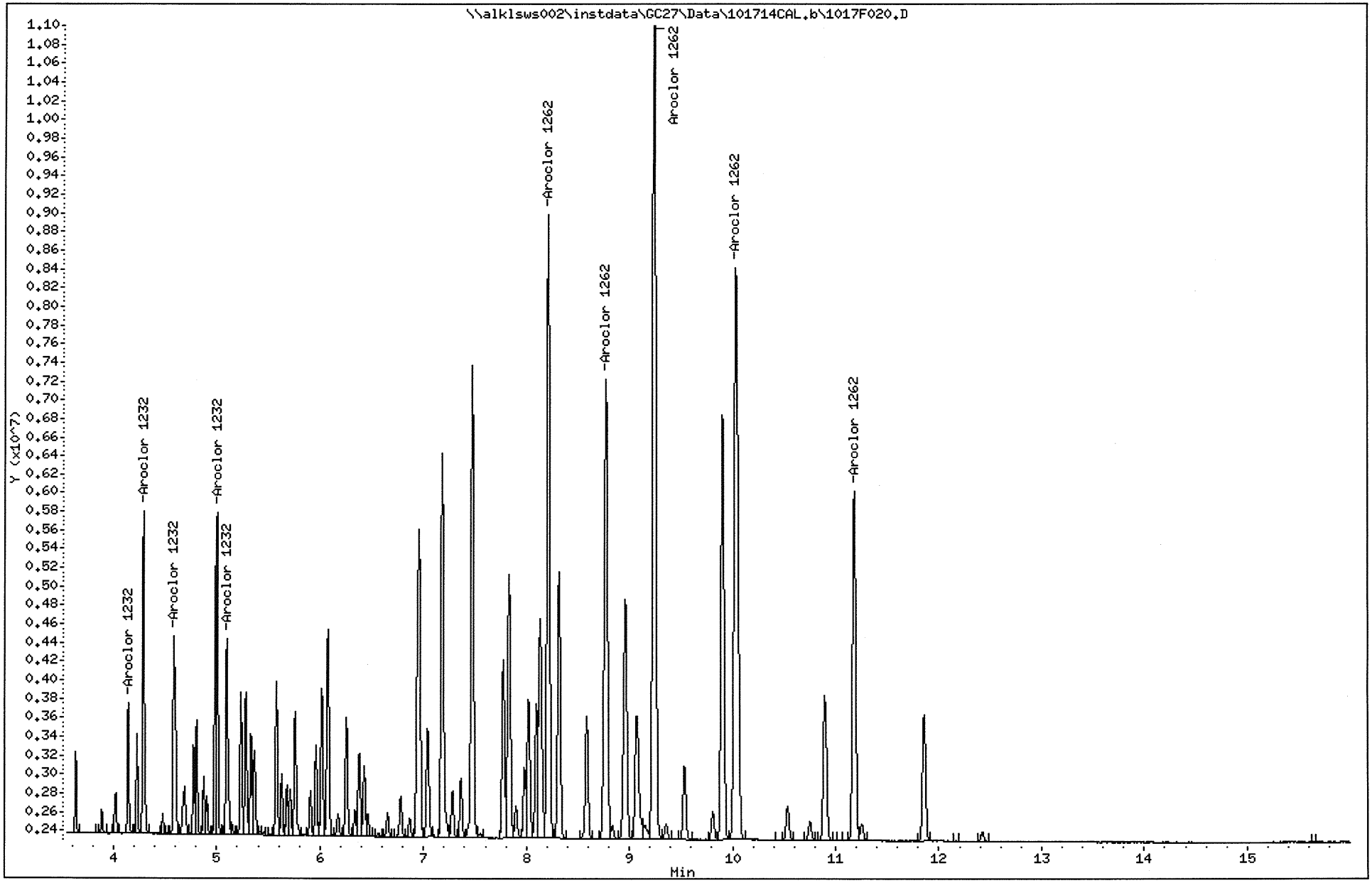
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

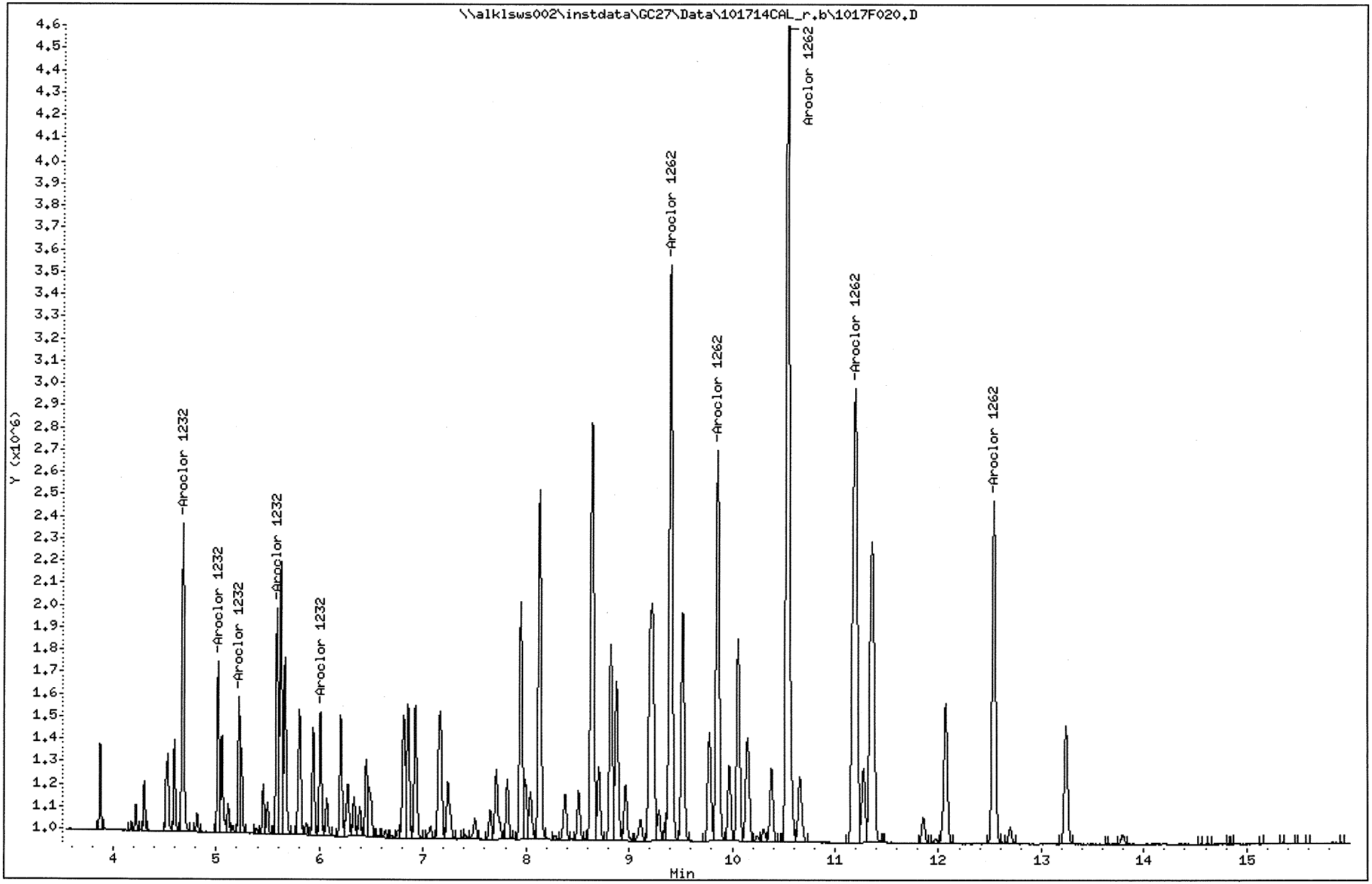


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Date : 18-OCT-2014 09:18
Client ID:
Sample Info: 3262 @ 1000ppb PCB6-57K

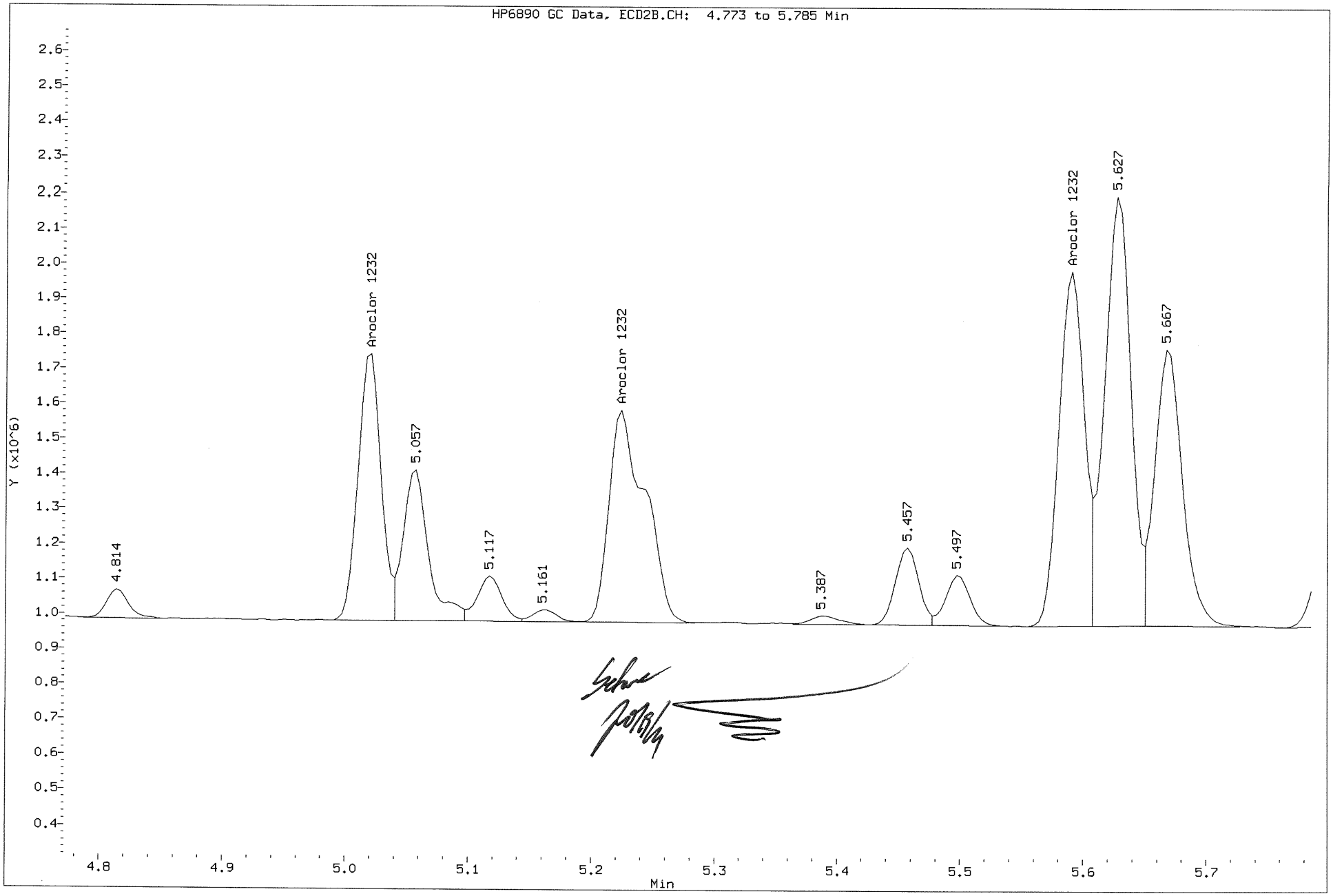
Column phase: DB-XLB

Instrument: GC27.i

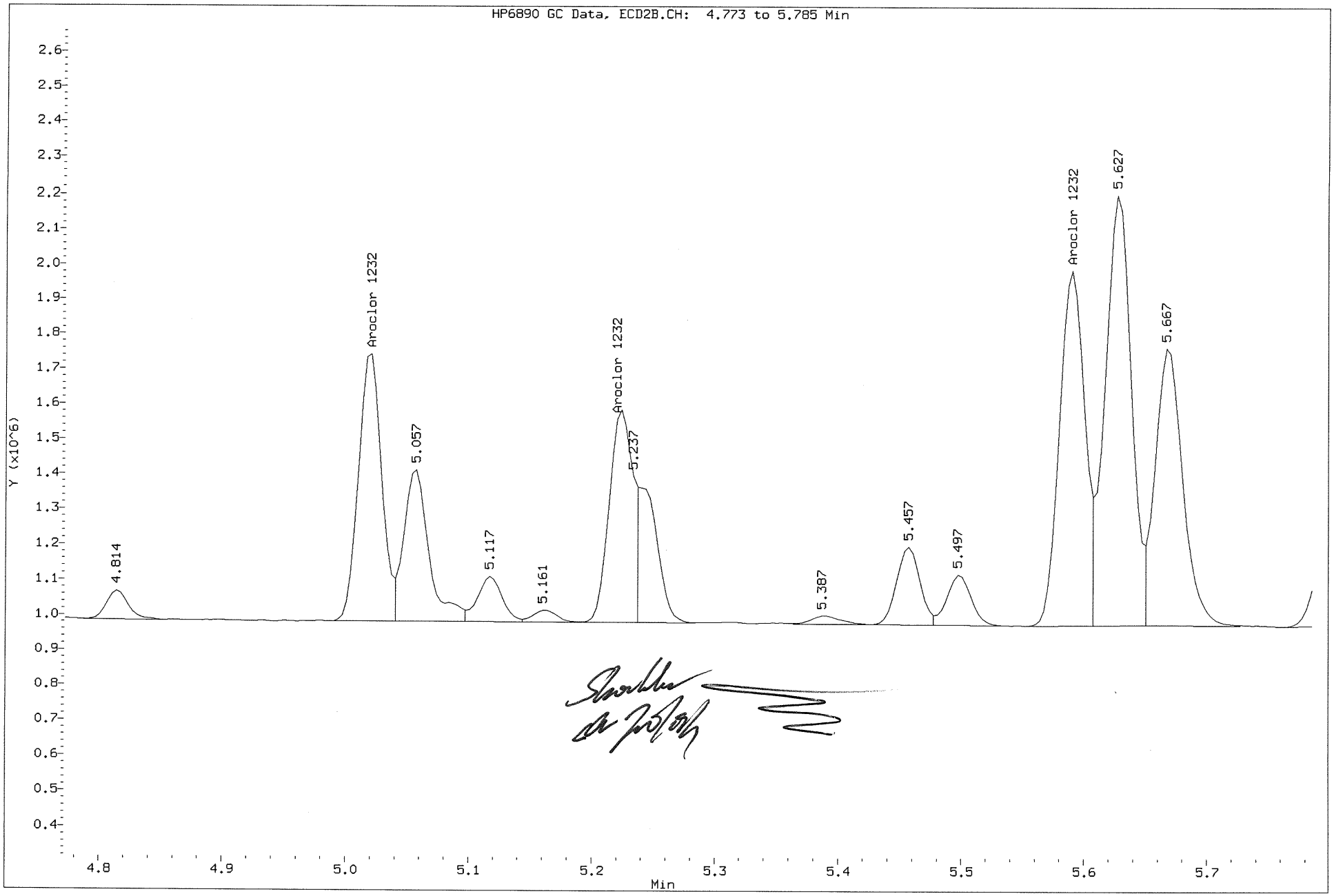
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F020.D
Injection Date: 18-OCT-2014 09:18
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Inj Date : 18-OCT-2014 09:41
Sample Info: 3262 @ 2000ppb PCB6-57J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.139	4.676	2636385	3472337	1800	1810	80.00- 120.00	100.00
	4.289	5.019	7500236	1877517	1700	1880	227.59- 341.39	284.49
	4.586	5.223	6623164	1706674	1700	1930	200.98- 301.47	251.22
	5.003	5.589	8007073	2799789	1750	1830	242.97- 364.46	303.71
	5.099	6.009	5553120	1560904	1830	1890	168.51- 252.76	210.63
		Average of Peak Amounts =			1760	1870		
Aroclor 1262	8.216	9.406	22407918	10502886	1660	1820	80.00- 120.00	100.00
	8.776	9.859	19665276	7248381	1670	1790	70.21- 105.31	87.76
	9.243	10.539	39466114	17669360	1710	1830	140.90- 211.35	176.13
	10.036	11.199	29861339	12190922	1720	1820	106.61- 159.91	133.26
	11.183	12.539	14779132	6666017	1770	1830	52.76- 79.15	65.95
		Average of Peak Amounts =			1710	1820		

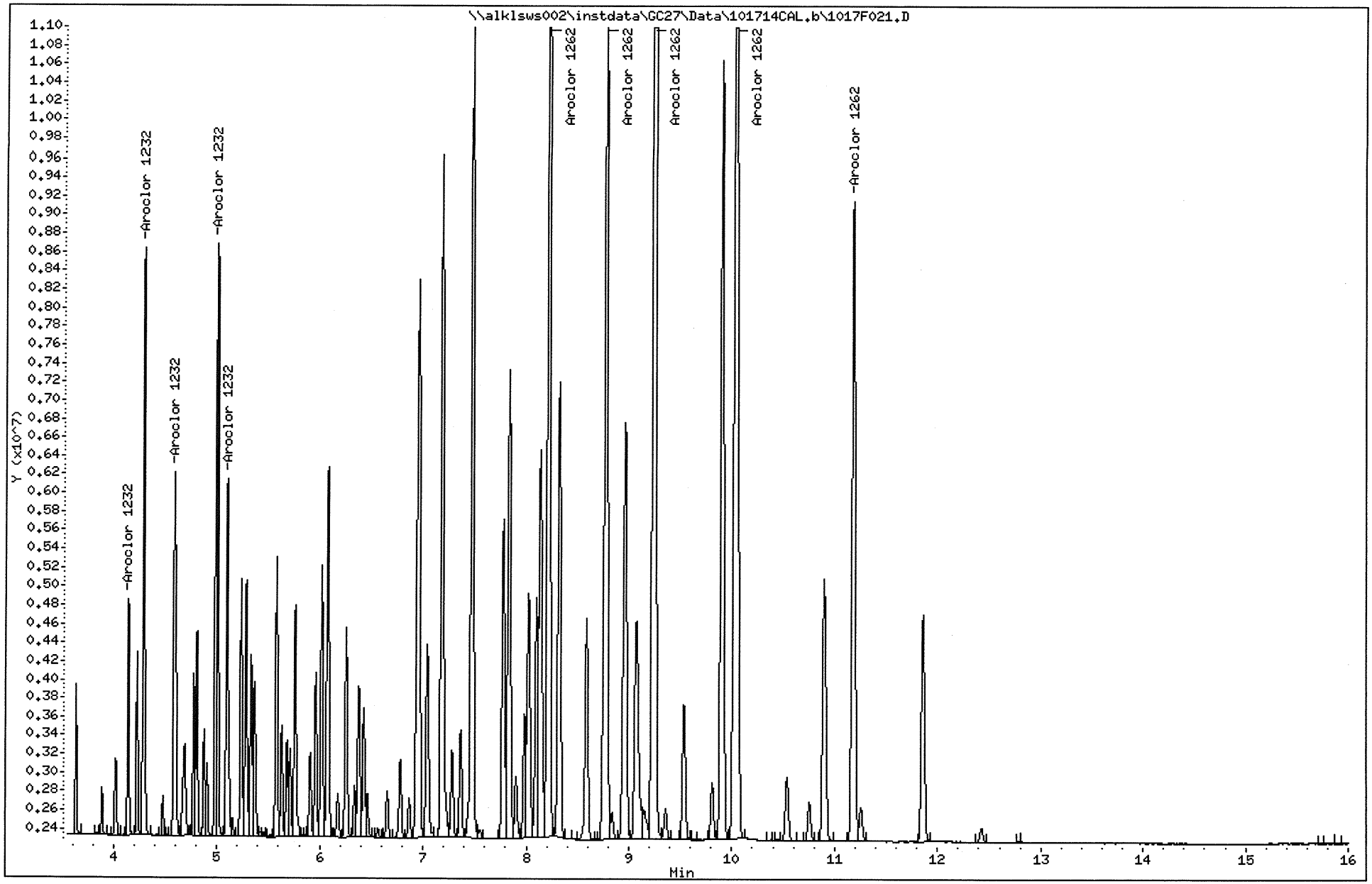
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

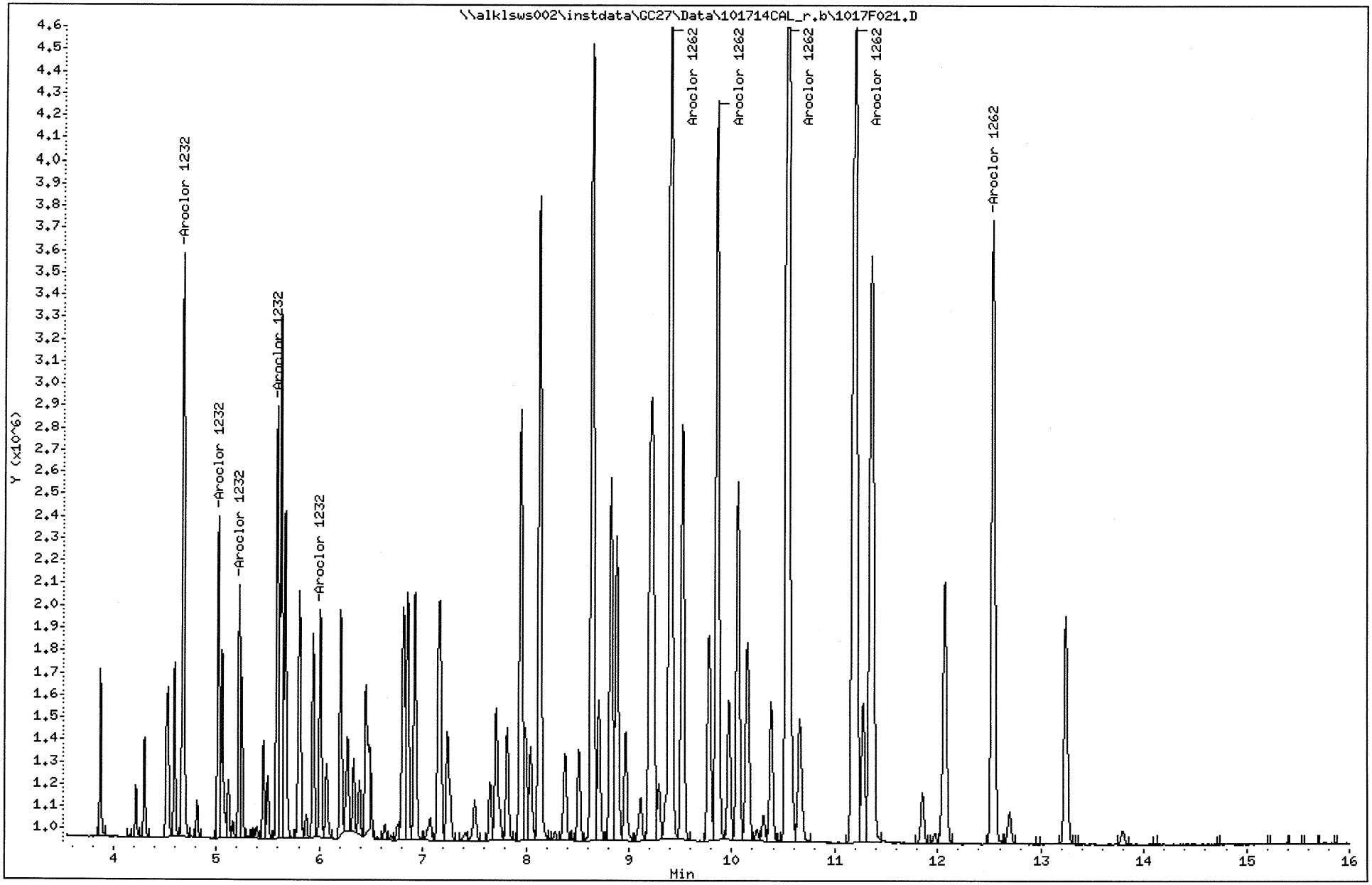


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Date : 18-OCT-2014 09:41
Client ID:
Sample Info: 3262 @ 2000ppb PCB6-57J

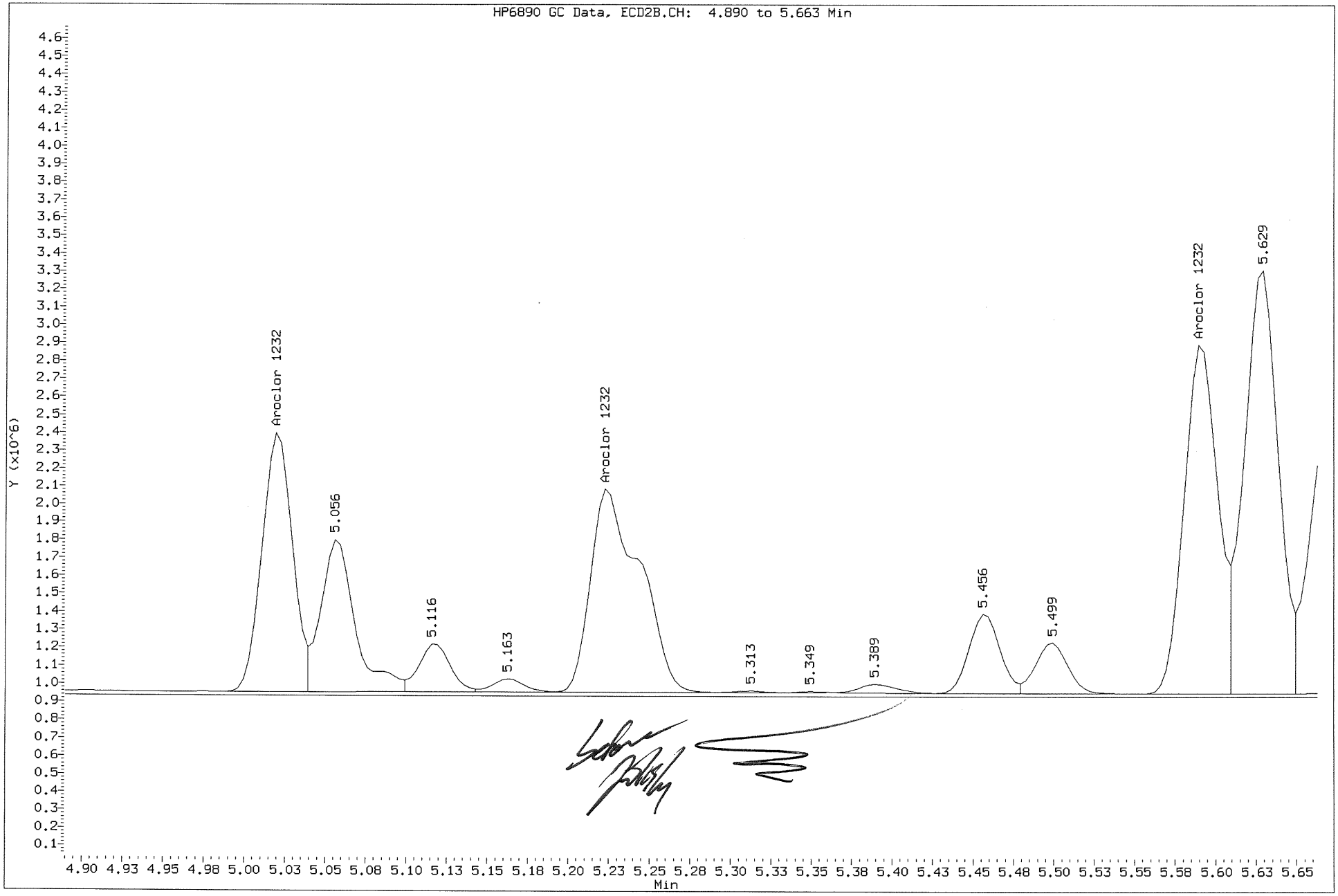
Column phase: DB-XLB

Instrument: GC27.i

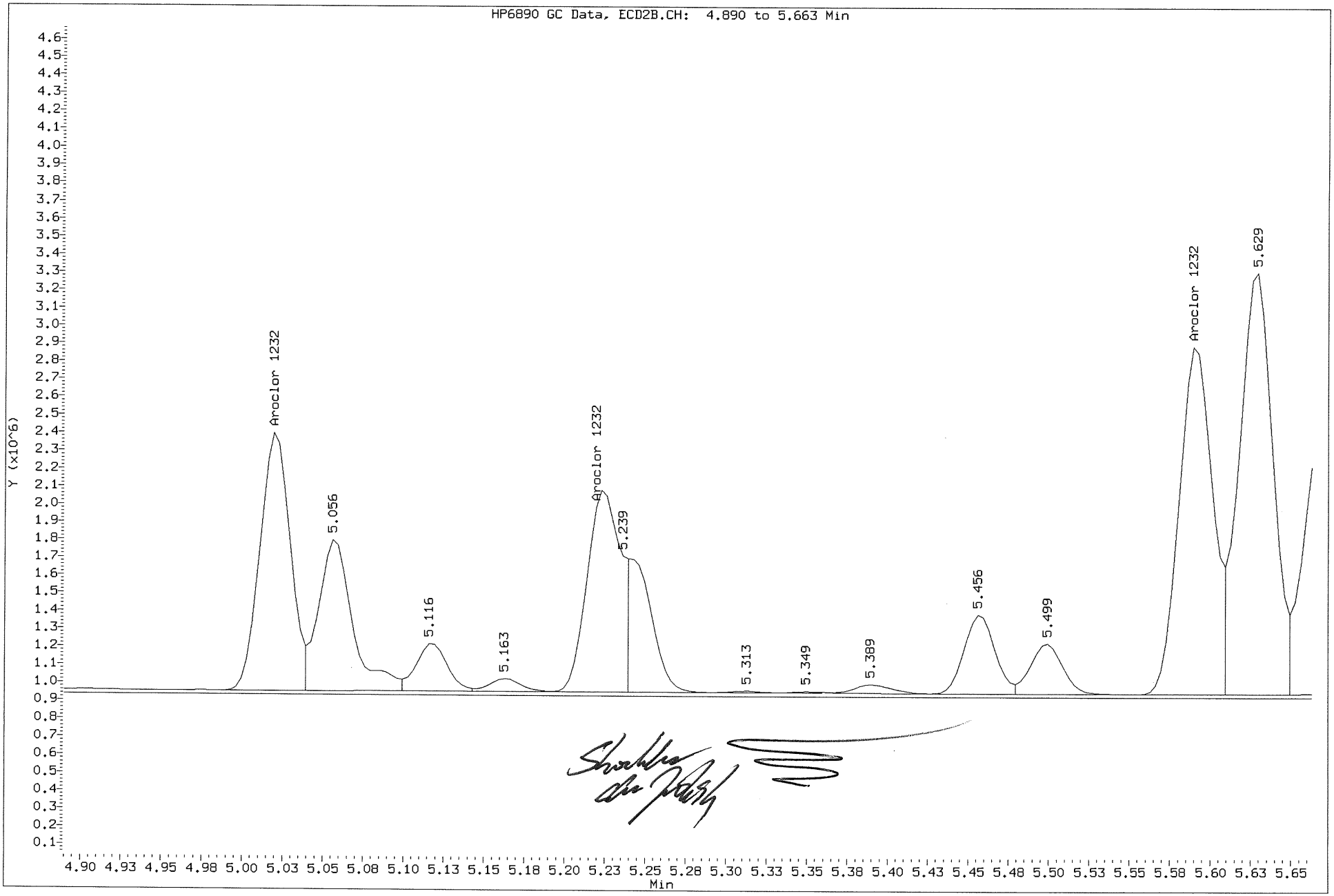
Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F021.D
Injection Date: 18-OCT-2014 09:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Inj Date : 18-OCT-2014 10:04
Sample Info: 3262 @ 5000ppb PCB6-57I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 3262.sub
Sub List #2 : 3262.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.678	5605464	7937741	3830	4140	80.00- 120.00	100.00(M)
	4.288	5.018	15854539	4349672	3590	4350	226.27- 339.41	282.84(M)
	4.588	5.225	13808064	3667530	3540	4150	197.07- 295.60	246.33(M)
	5.004	5.591	17407703	6298612	3810	4110	248.44- 372.66	310.55(M)
	5.098	6.008	11679363	3505336	3840	4250	166.69- 250.03	208.36(M)
			Average of Peak Amounts =		3720	4200		
Aroclor 1262	8.218	9.405	48369252	24536208	3590	4240	80.00- 120.00	100.00
	8.778	9.858	42095344	17305738	3570	4270	69.62- 104.43	87.03
	9.244	10.541	87873811	43419180	3810	4500	145.34- 218.01	181.67
	10.038	11.198	65515908	29217043	3770	4360	108.36- 162.54	135.45
	11.181	12.541	32279157	15958549	3880	4390	53.39- 80.08	66.73
			Average of Peak Amounts =		3720	4350		

QC Flag Legend

M - Compound response manually integrated.

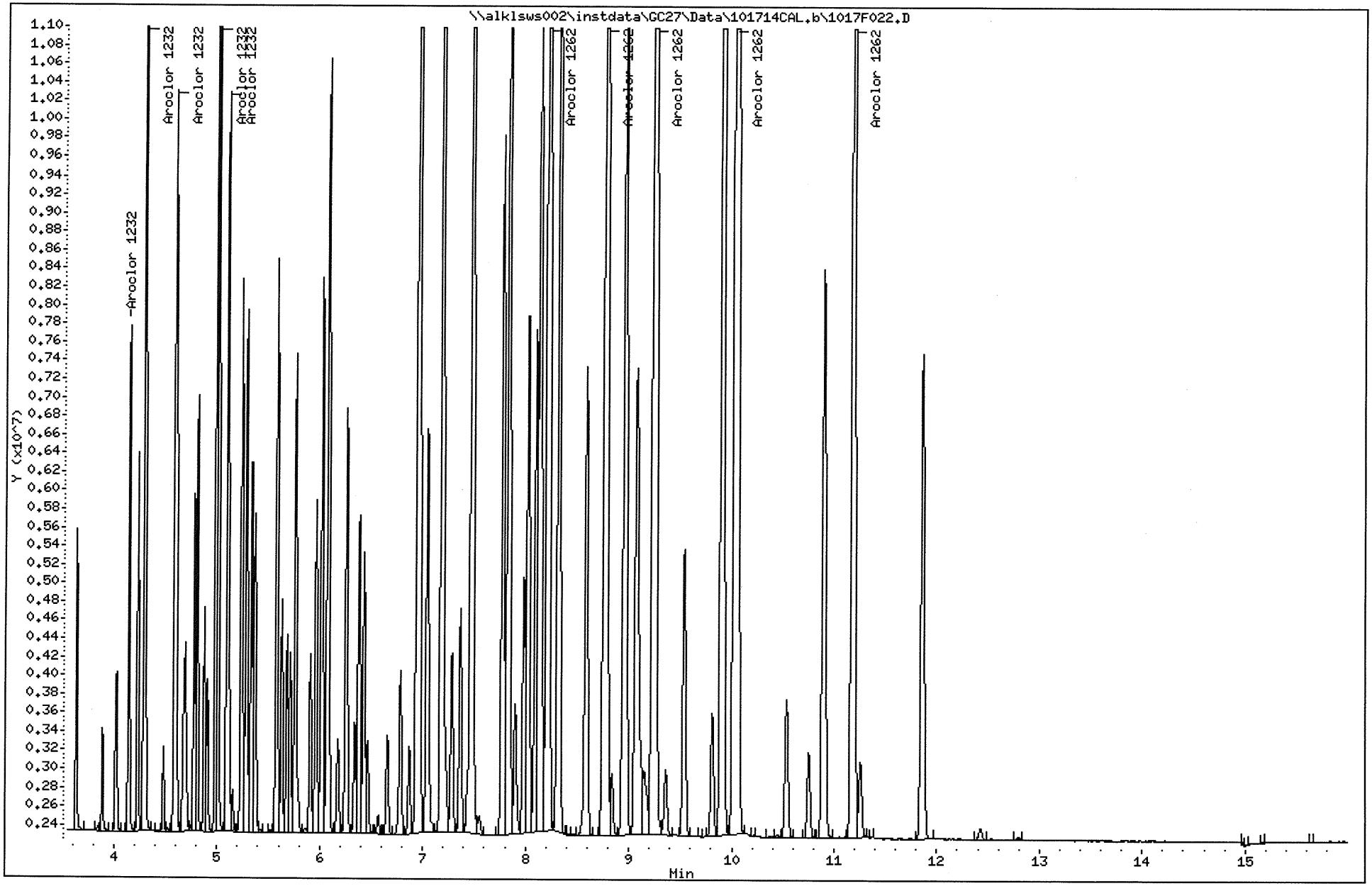
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



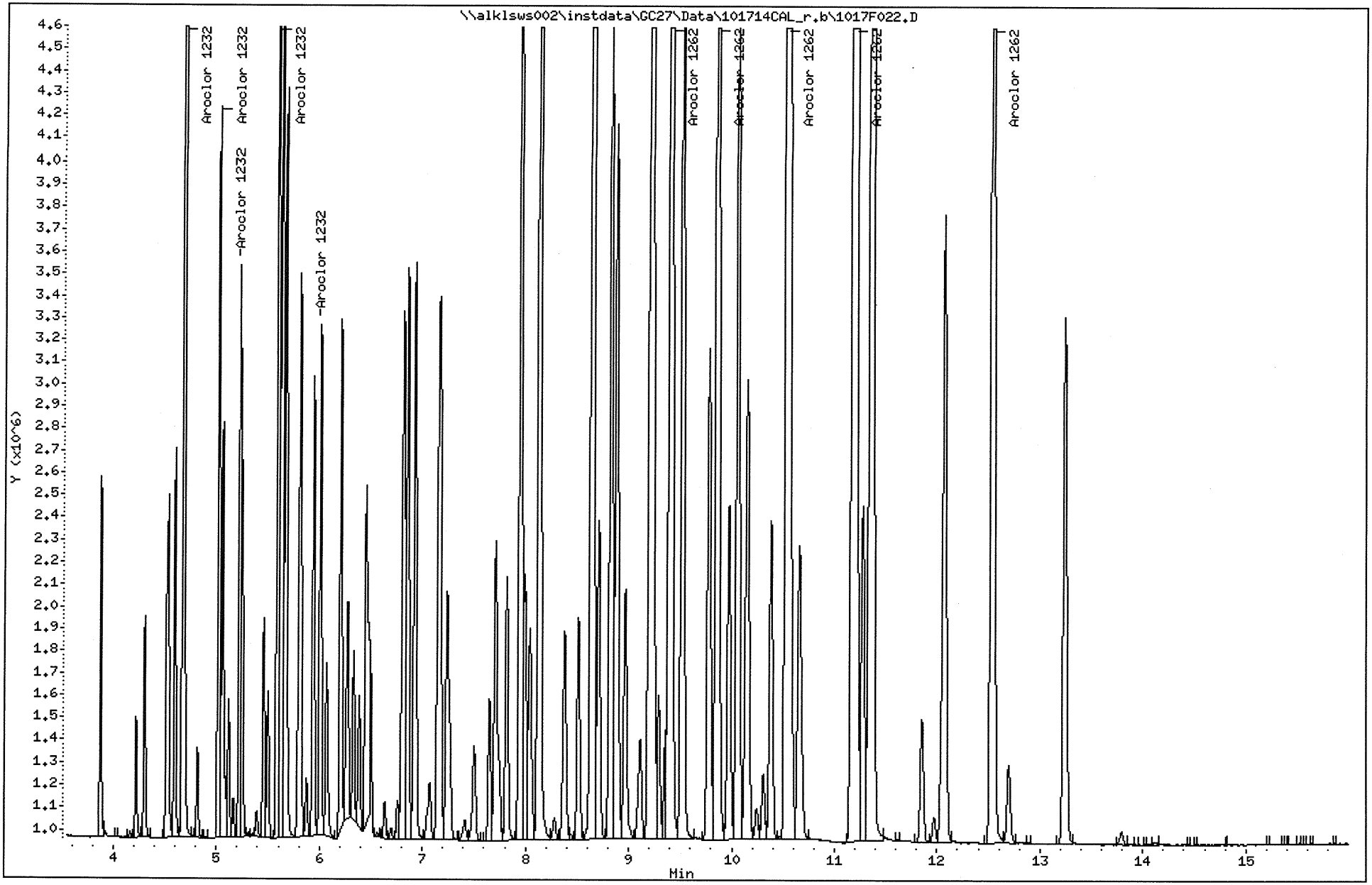
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Date : 18-OCT-2014 10:04
Client ID:
Sample Info: 3262 @ 5000ppb PCB6-57I

Instrument: GC27.i

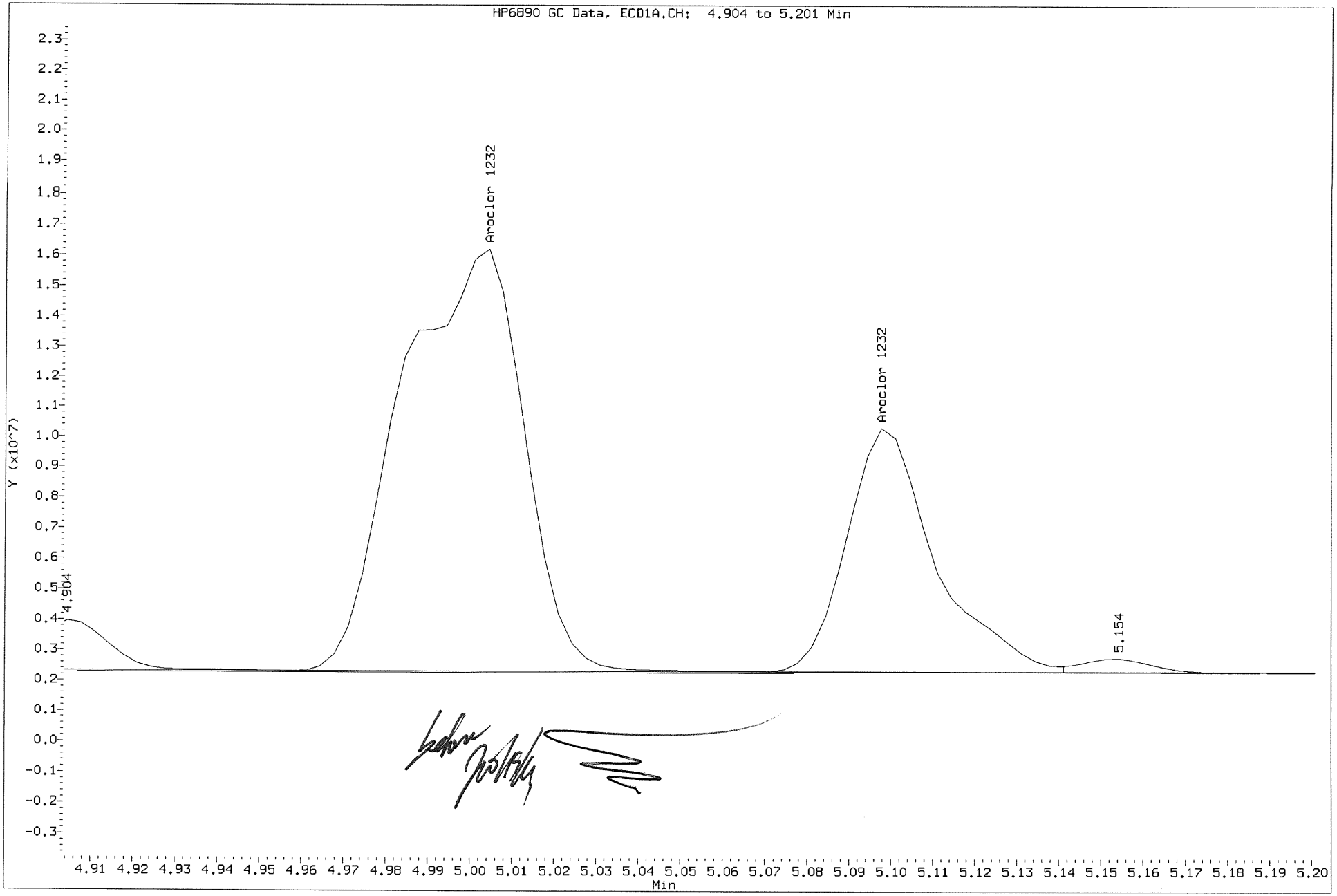
Operator: JMSmith

Column phase: DB-XLB

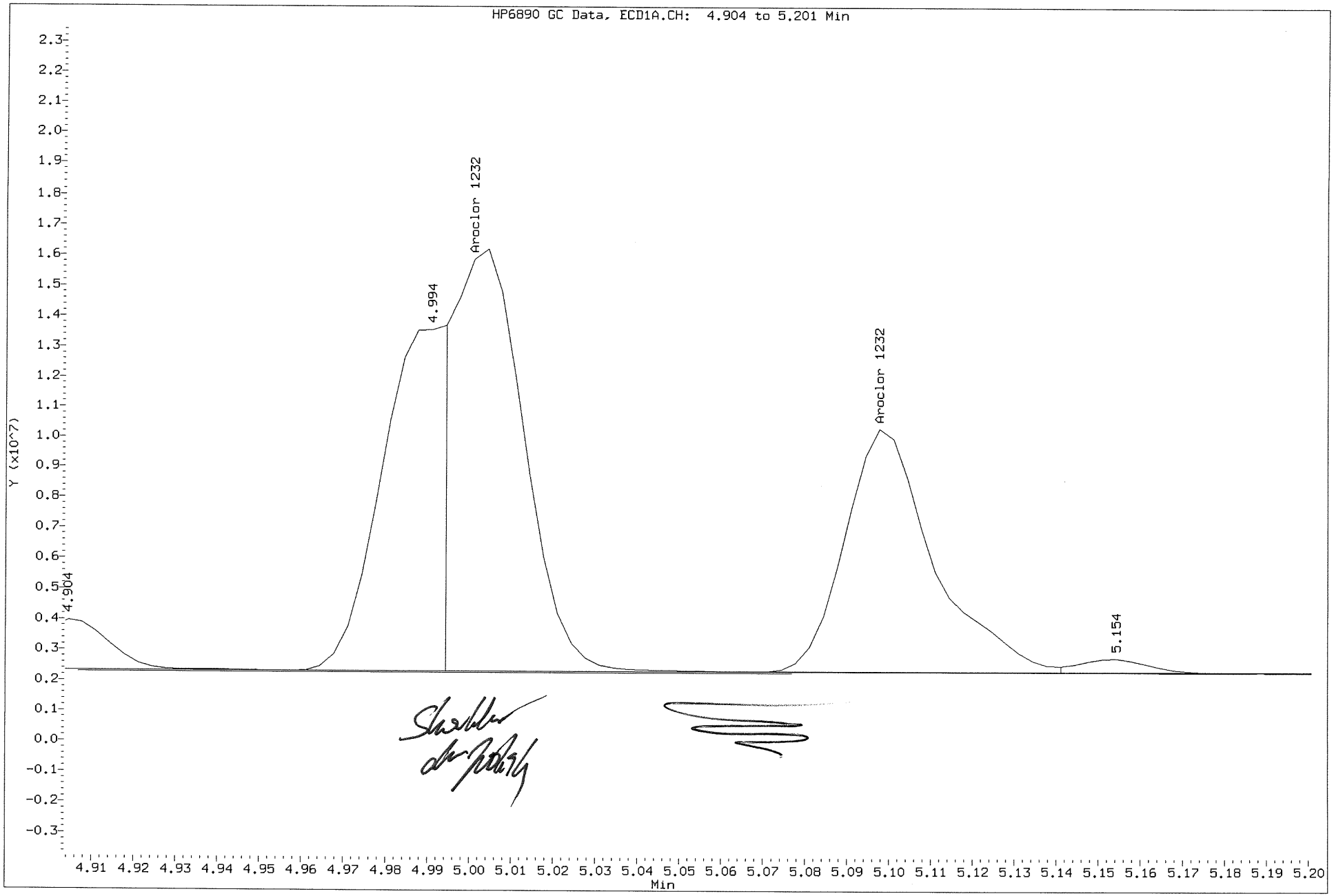
Column diameter: 0.32



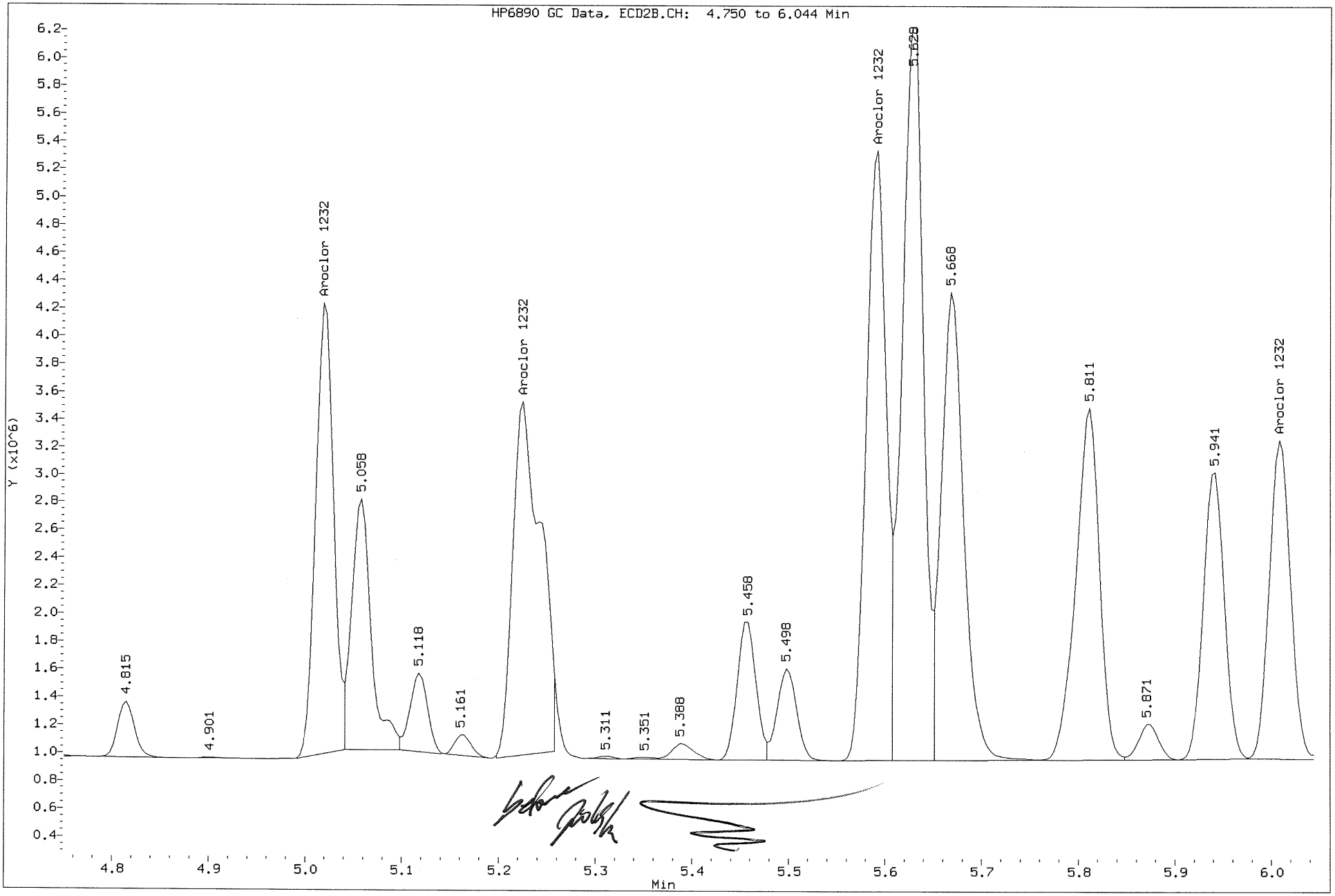
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:

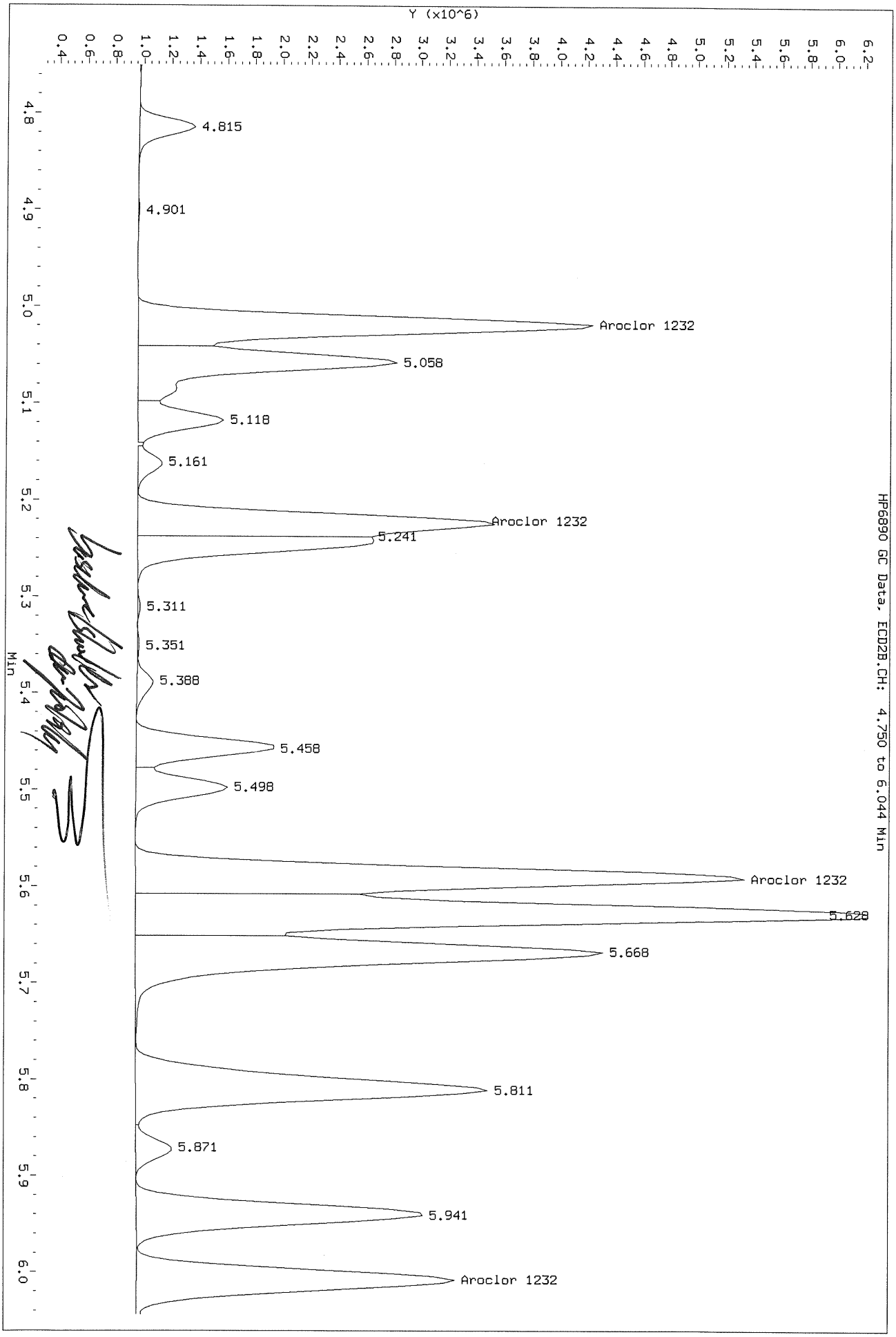


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27.i
Client Sample ID:



before

Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F022.D
Injection Date: 18-OCT-2014 10:04
Instrument: GC27:i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Inj Date : 18-OCT-2014 10:27
Sample Info: 4268 @ 25ppb PCB6-55J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	178385	53186	29.8	29.3	80.00- 120.00	100.00
	5.005	5.628	215078	93842	27.8	28.5	96.46- 144.68	120.57
	5.238	5.811	83571	51128	26.7	29.2	37.48- 56.22	46.85
	5.581	6.008	122836	46845	29.2	29.2	55.09- 82.63	68.86
	6.081	6.928	136301	59634	27.5	29.5	61.13- 91.69	76.41
		Average of Peak Amounts =			28.2	29.1		
Aroclor 1268	9.905	11.205	912719	381230	30.9	29.5	80.00- 120.00	100.00
	10.035	11.368	751038	312402	29.5	28.6	65.83- 98.74	82.29
	10.535	11.855	636667	274932	28.9	28.8	55.80- 83.71	69.75
	11.861	13.241	1900916	833515	30.3	29.3	166.62- 249.92	208.27
		Average of Peak Amounts =			29.9	29.1		

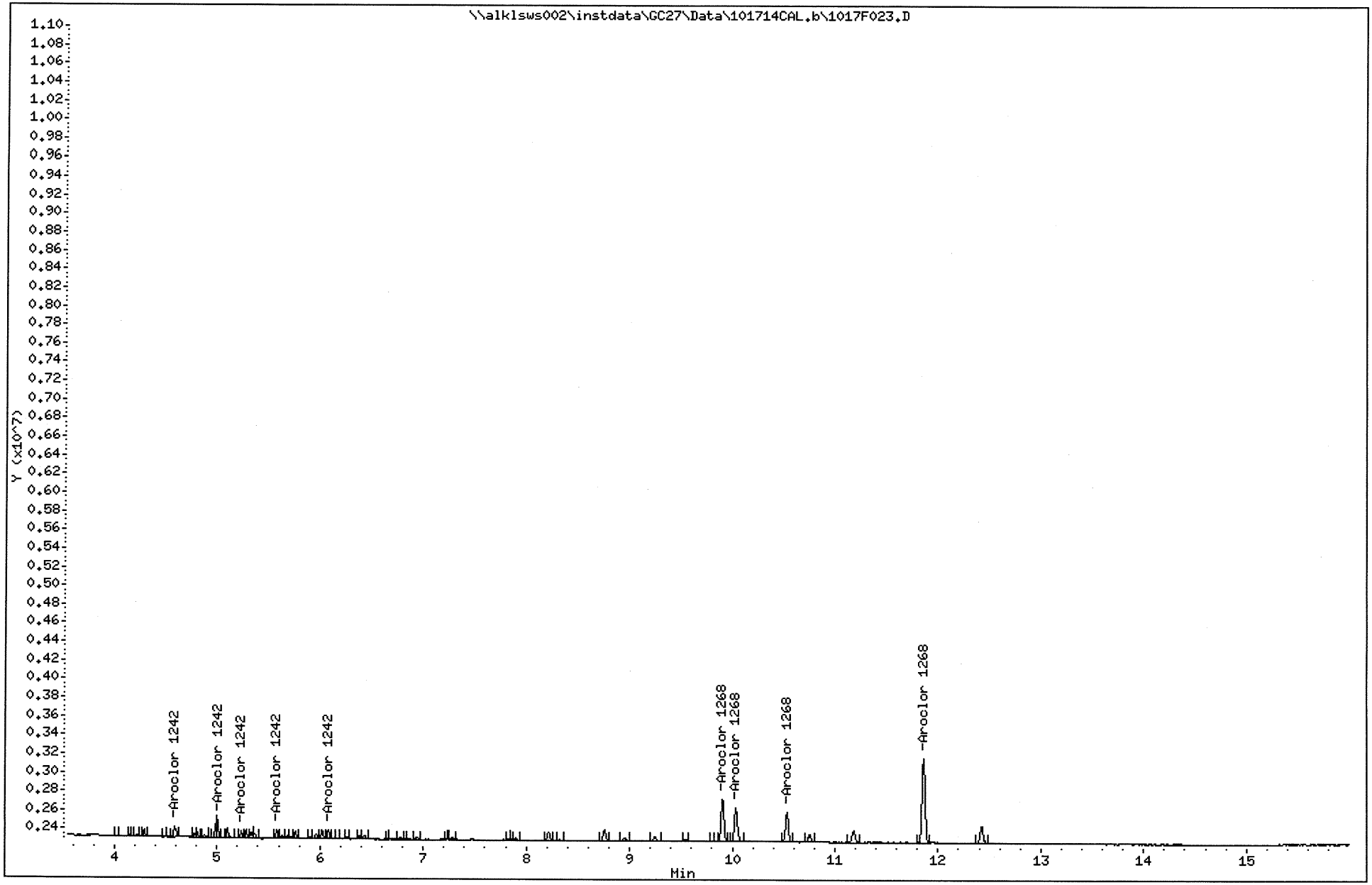
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

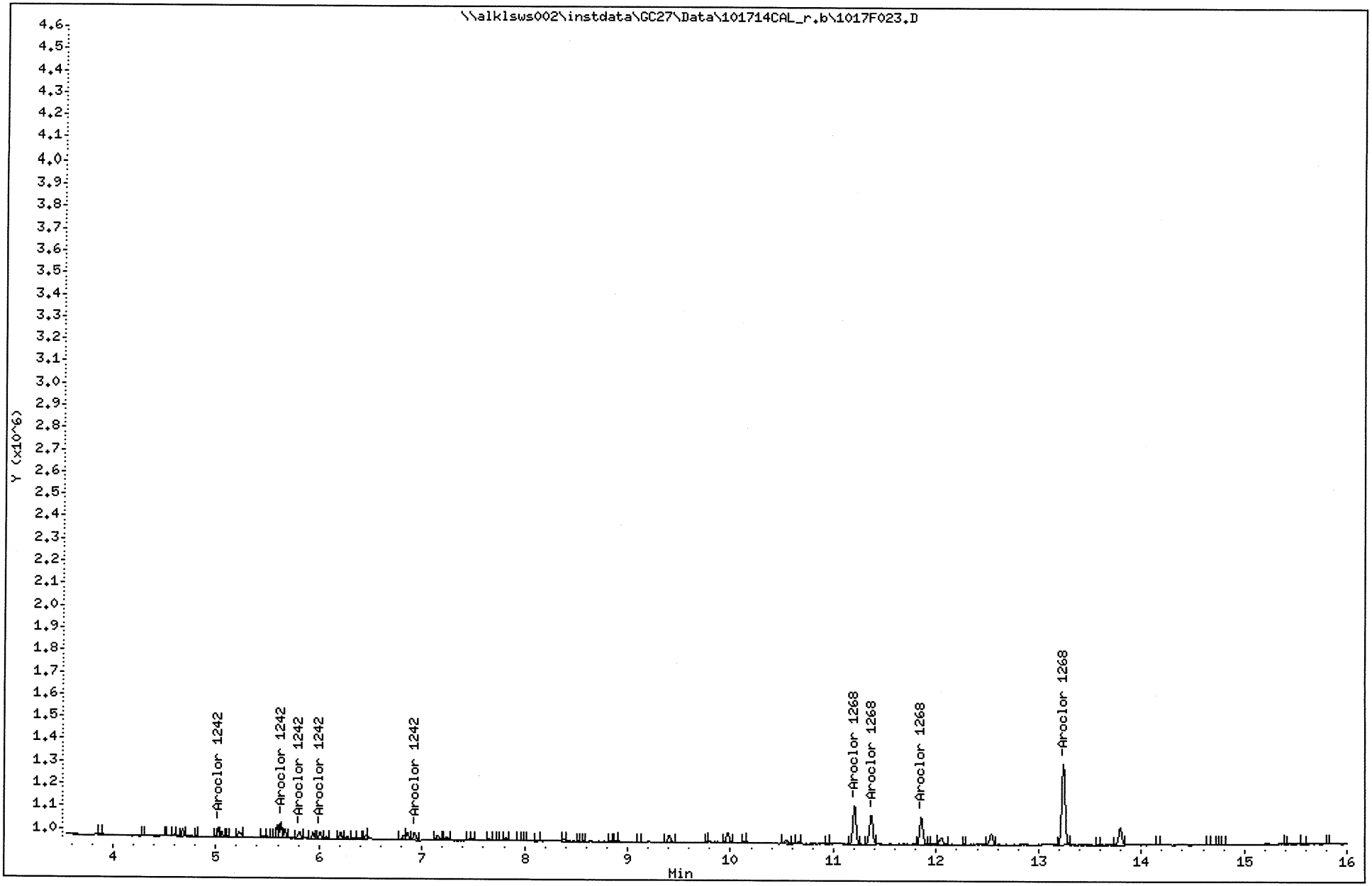


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F023.D
Date : 18-OCT-2014 10:27
Client ID:
Sample Info: 4268 @ 25ppb PCB6-55J

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Inj Date : 18-OCT-2014 10:50
Sample Info: 4268 @ 50ppb PCB6-55I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	337709	94637	56.4	52.1	80.00- 120.00	100.00
	5.002	5.629	445851	171591	57.6	52.1	105.62- 158.43	132.02
	5.239	5.809	169386	84888	54.1	48.4	40.13- 60.19	50.16
	5.579	6.009	232265	80105	55.2	50.0	55.02- 82.53	68.78
	6.082	6.929	282770	107563	57.1	53.2	66.99- 100.48	83.73
		Average of Peak Amounts =			56.1	51.2		
Aroclor 1268	9.905	11.206	1778986	687677	60.3	53.1	80.00- 120.00	100.00
	10.035	11.366	1493246	566259	58.6	51.8	67.15- 100.73	83.94
	10.532	11.856	1299567	493449	59.1	51.7	58.44- 87.66	73.05
	11.862	13.242	3633292	1511398	58.0	53.1	163.39- 245.08	204.23
		Average of Peak Amounts =			59.0	52.4		

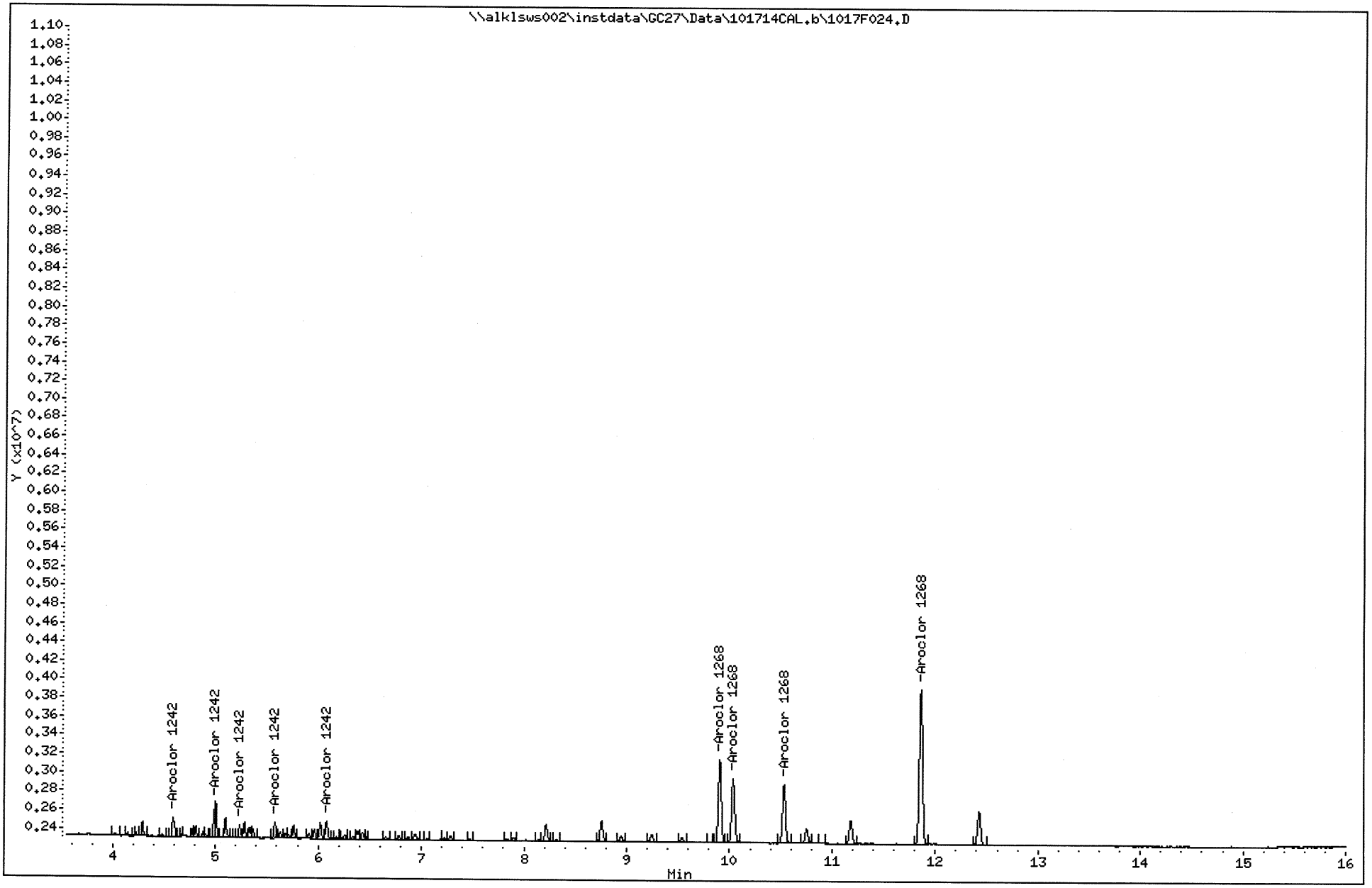
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



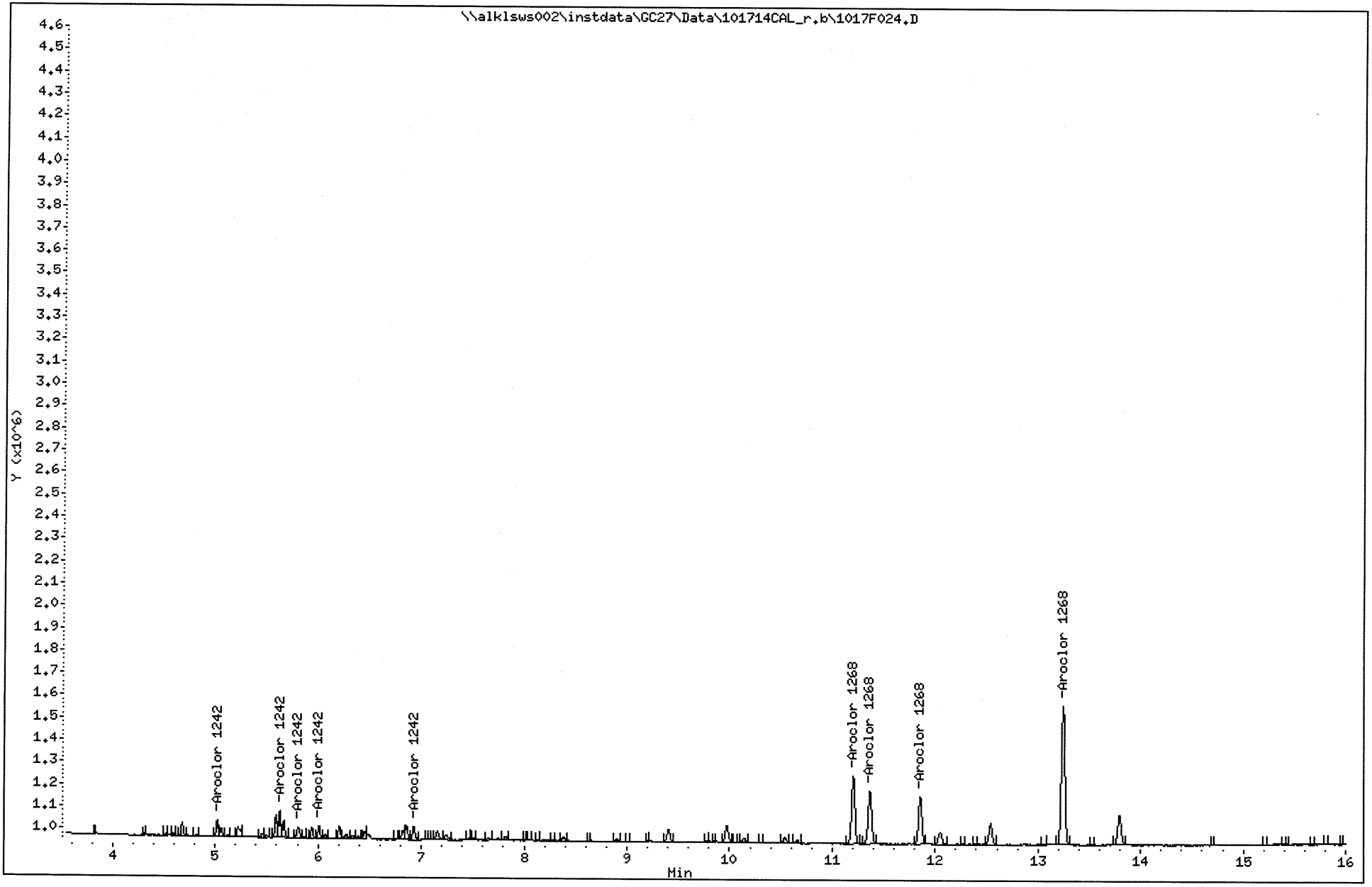
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F024.D
Date : 18-OCT-2014 10:50
Client ID:
Sample Info: 4268 @ 50ppb PCB6-55I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Inj Date : 18-OCT-2014 11:14
Sample Info: 4268 @ 500ppb PCB6-55H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.020	3011806	964242	503	531	80.00- 120.00	100.00
	5.004	5.627	3833474	1703216	495	517	101.83- 152.74	127.28
	5.237	5.810	1586646	914557	506	522	42.14- 63.22	52.68
	5.580	6.010	2118459	849125	504	530	56.27- 84.41	70.34
	6.084	6.930	2516921	1042040	509	515	66.85- 100.28	83.57
			Average of Peak Amounts =		503	523		
Aroclor 1268	9.907	11.204	13762130	6535639	466	505	80.00- 120.00	100.00
	10.037	11.367	12067791	5572182	473	510	70.15- 105.23	87.69
	10.534	11.854	10422692	4853454	474	508	60.59- 90.88	75.73
	11.864	13.244	28729167	14166676	458	498	167.00- 250.51	208.76
			Average of Peak Amounts =		468	505		

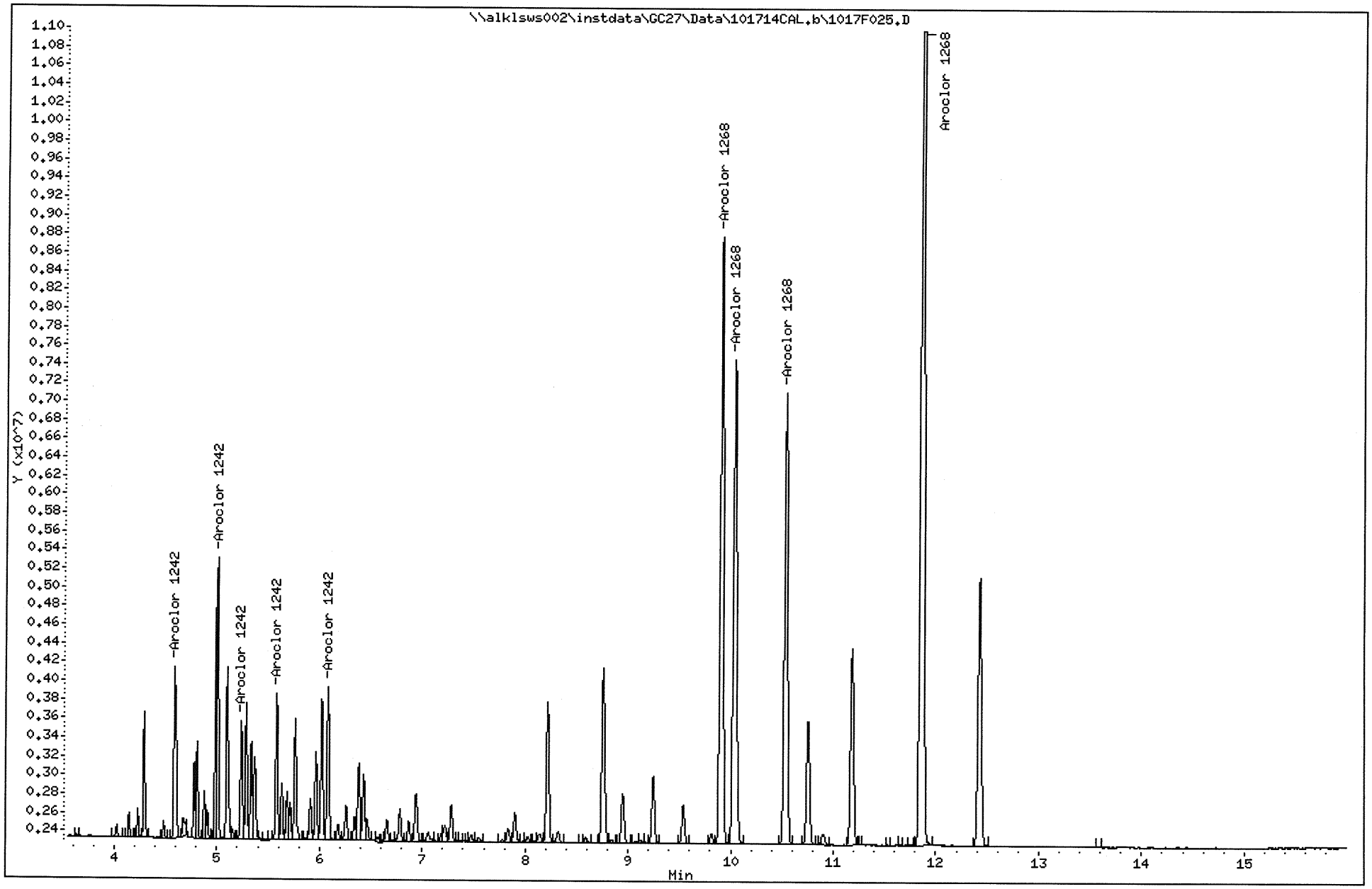
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

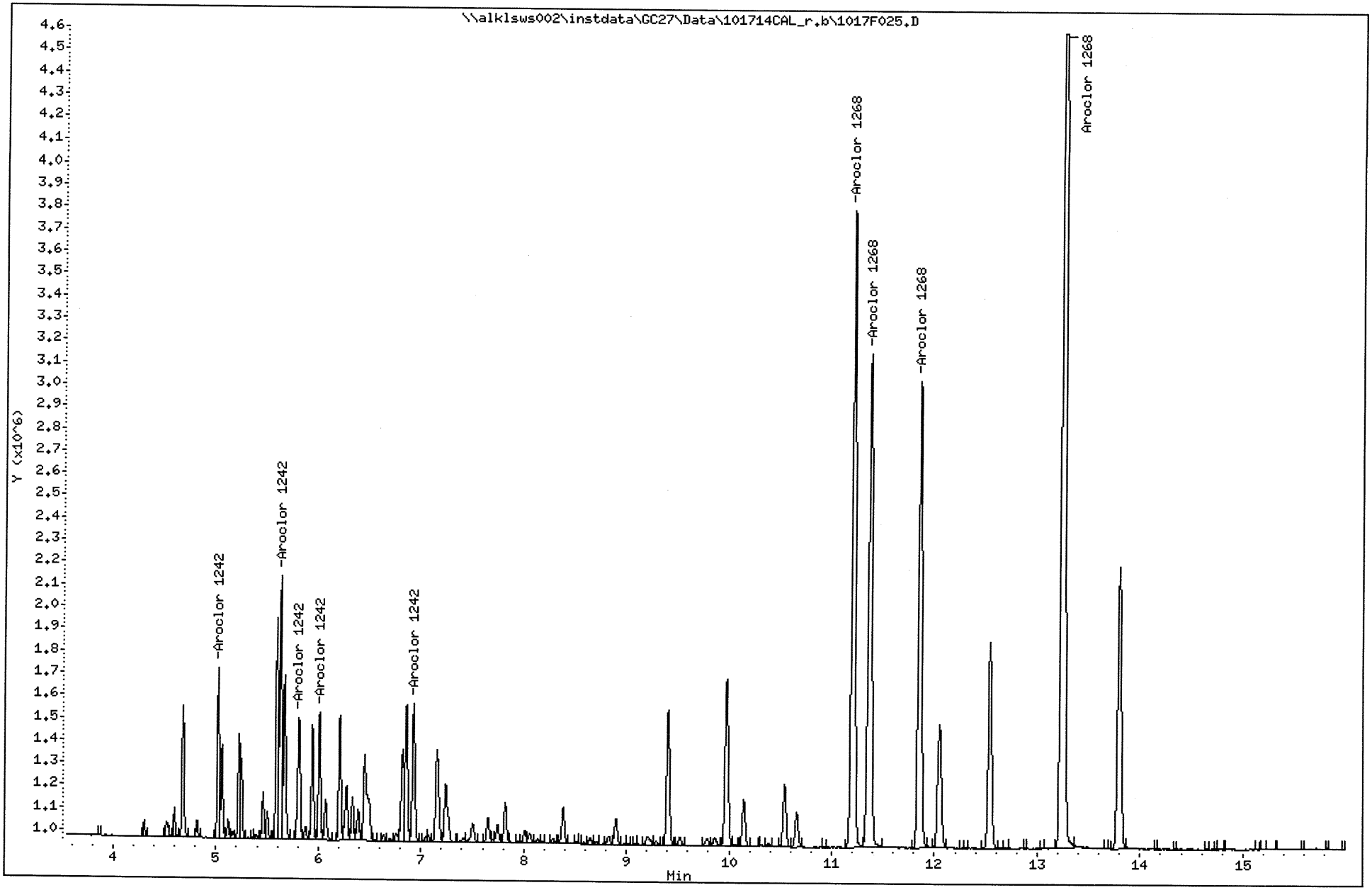


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F025.D
Date : 18-OCT-2014 11:14
Client ID:
Sample Info: 4268 @ 500ppb PCB6-55H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Inj Date : 18-OCT-2014 11:36
Sample Info: 4268 @ 1000ppb PCB6-55G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.588	5.021	5688821	1902492	950	1050	80.00- 120.00	100.00
	5.005	5.628	7556103	3504553	975	1060	106.26- 159.39	132.82
	5.238	5.811	3054799	1851886	975	1060	42.96- 64.44	53.70
	5.581	6.008	3980606	1677814	947	1050	55.98- 83.97	69.97
	6.081	6.928	4655495	2079460	941	1030	65.47- 98.20	81.84
			Average of Peak Amounts =		958	1050		
Aroclor 1268	9.905	11.205	24966776	13186915	846	1020	80.00- 120.00	100.00
	10.035	11.368	22019953	11277172	864	1030	70.56- 105.84	88.20
	10.535	11.855	19043647	9870408	866	1030	61.02- 91.53	76.28
	11.861	13.241	53328333	28903921	851	1020	170.88- 256.32	213.60
			Average of Peak Amounts =		857	1030		

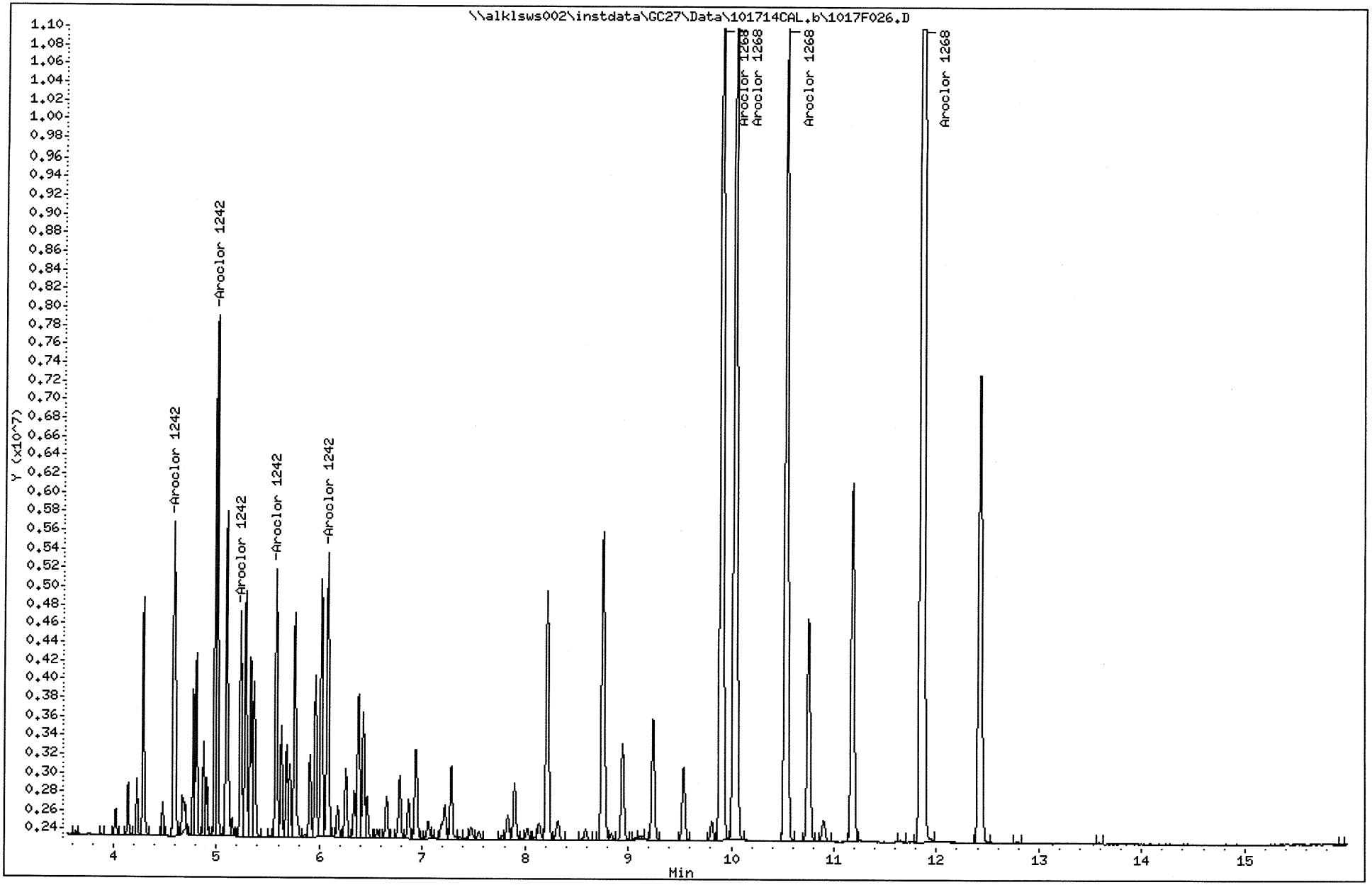
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



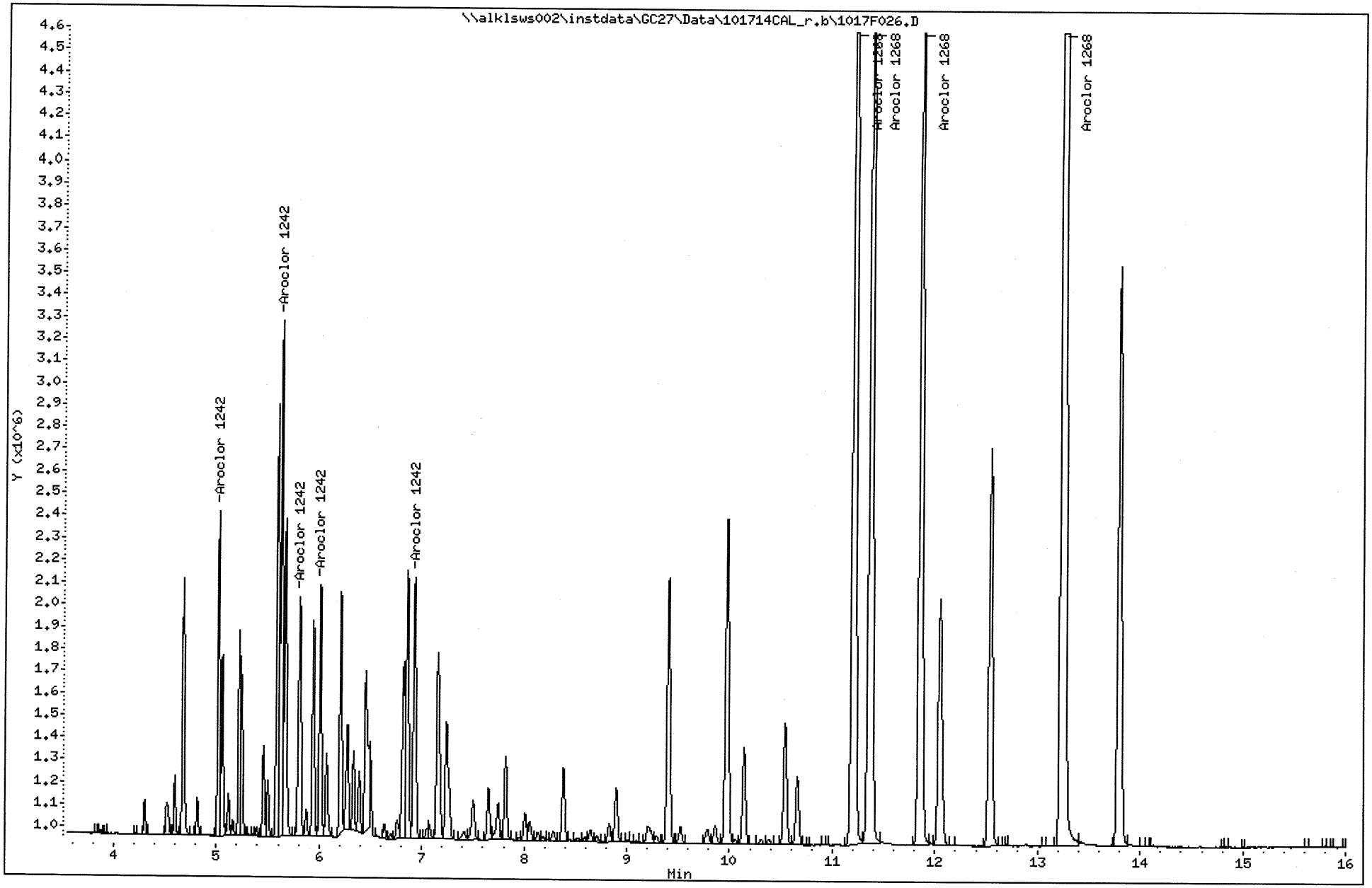
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F026.D
Date : 18-OCT-2014 11:36
Client ID:
Sample Info: 4268 @ 1000ppb PCB6-55G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Inj Date : 18-OCT-2014 11:59
Sample Info: 4268 @ 2000ppb PCB6-55F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.586	5.019	11149754	3307725	1860	1820	80.00- 120.00	100.00
	5.002	5.629	14217070	5997531	1840	1820	102.01- 153.01	127.51
	5.236	5.809	6205671	3302061	1980	1880	44.53- 66.79	55.66
	5.579	6.009	7967278	2978808	1890	1860	57.17- 85.75	71.46
	6.082	6.929	9431969	3632481	1910	1800	67.67- 101.51	84.59
			Average of Peak Amounts =		1900	1840		
Aroclor 1268	9.906	11.203	55123734	23217380	1870	1790	80.00- 120.00	100.00
	10.036	11.366	49020050	19985390	1920	1830	71.14- 106.71	88.93
	10.532	11.853	42459365	17403577	1930	1820	61.62- 92.43	77.03
	11.859	13.243	120779723	51517223	1930	1810	175.29- 262.93	219.11
			Average of Peak Amounts =		1910	1810		

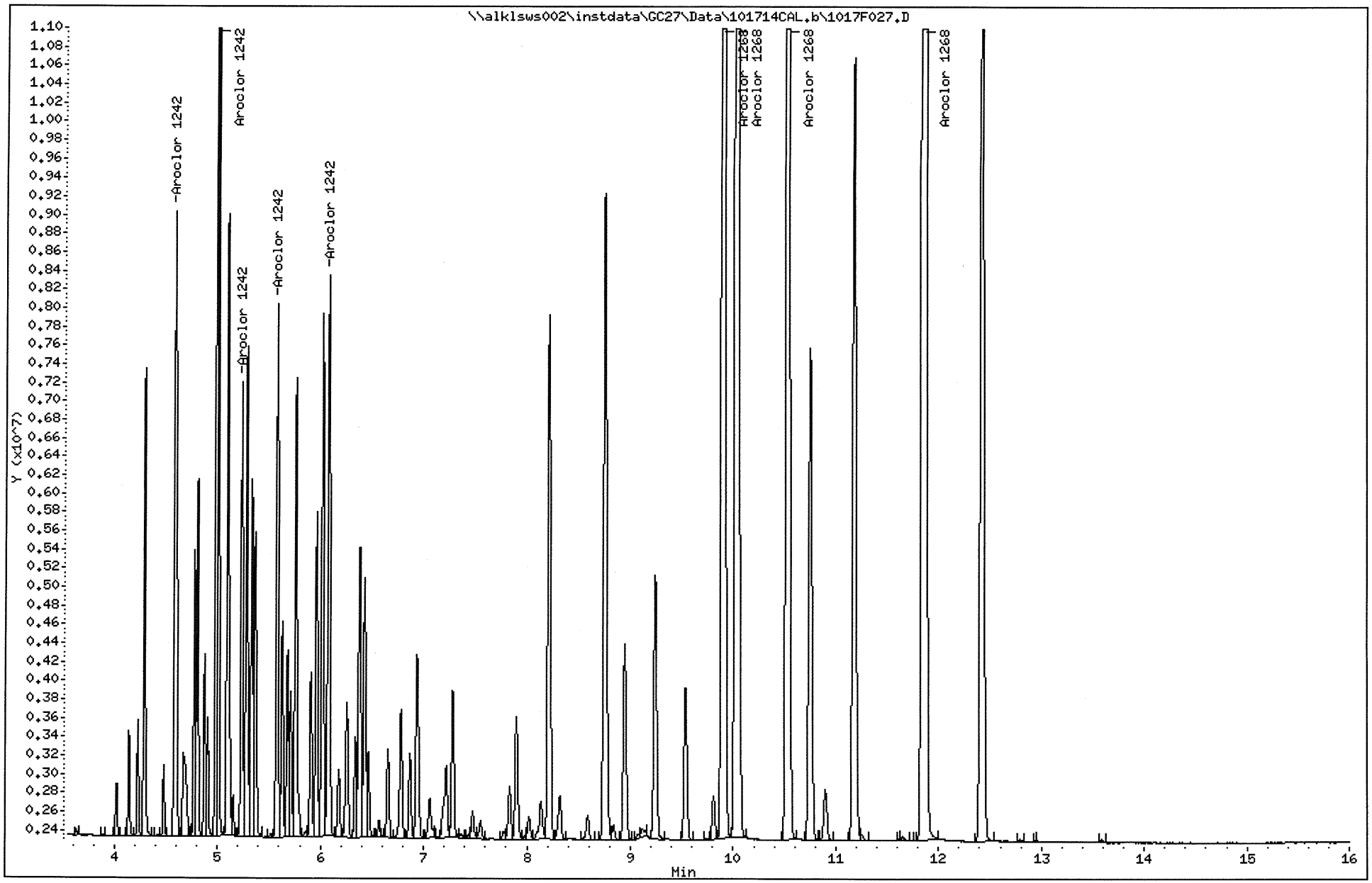
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



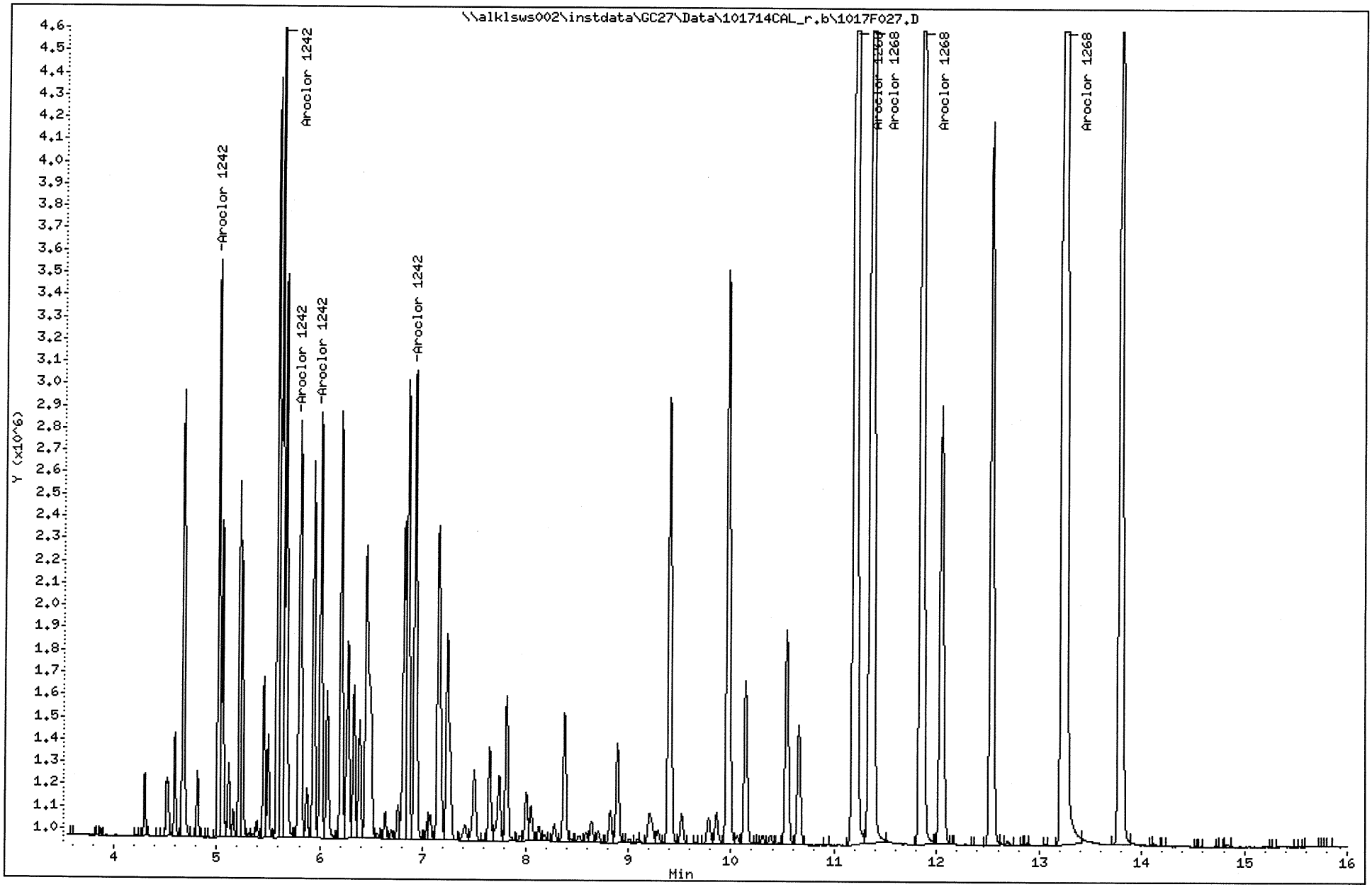
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F027.D
Date : 18-OCT-2014 11:59
Client ID:
Sample Info: 4268 @ 2000ppb PCB6-55F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Inj Date : 18-OCT-2014 12:22
Sample Info: 4268 @ 5000ppb PCB6-55E
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 4268.sub
Sub List #2 : 4268.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.585	5.019	23726794	6970944	3960	3840	80.00- 120.00	100.00
	5.002	5.629	33133613	13351378	4280	4050	111.72- 167.58	139.65
	5.235	5.809	13671834	7232897	4360	4120	46.10- 69.15	57.62
	5.582	6.009	17333707	6364176	4120	3970	58.44- 87.67	73.06
	6.082	6.929	20902191	8083134	4220	4000	70.48- 105.71	88.10
			Average of Peak Amounts =		4190	4000		
Aroclor 1268	9.905	11.202	125016886	53967167	4230	4170	80.00- 120.00	100.00
	10.035	11.369	111943011	46509617	4390	4260	71.63- 107.45	89.54
	10.532	11.855	96960682	40633310	4410	4260	62.05- 93.07	77.56
	11.859	13.242	281051280	120794680	4480	4250	179.85- 269.77	224.81
			Average of Peak Amounts =		4380	4240		

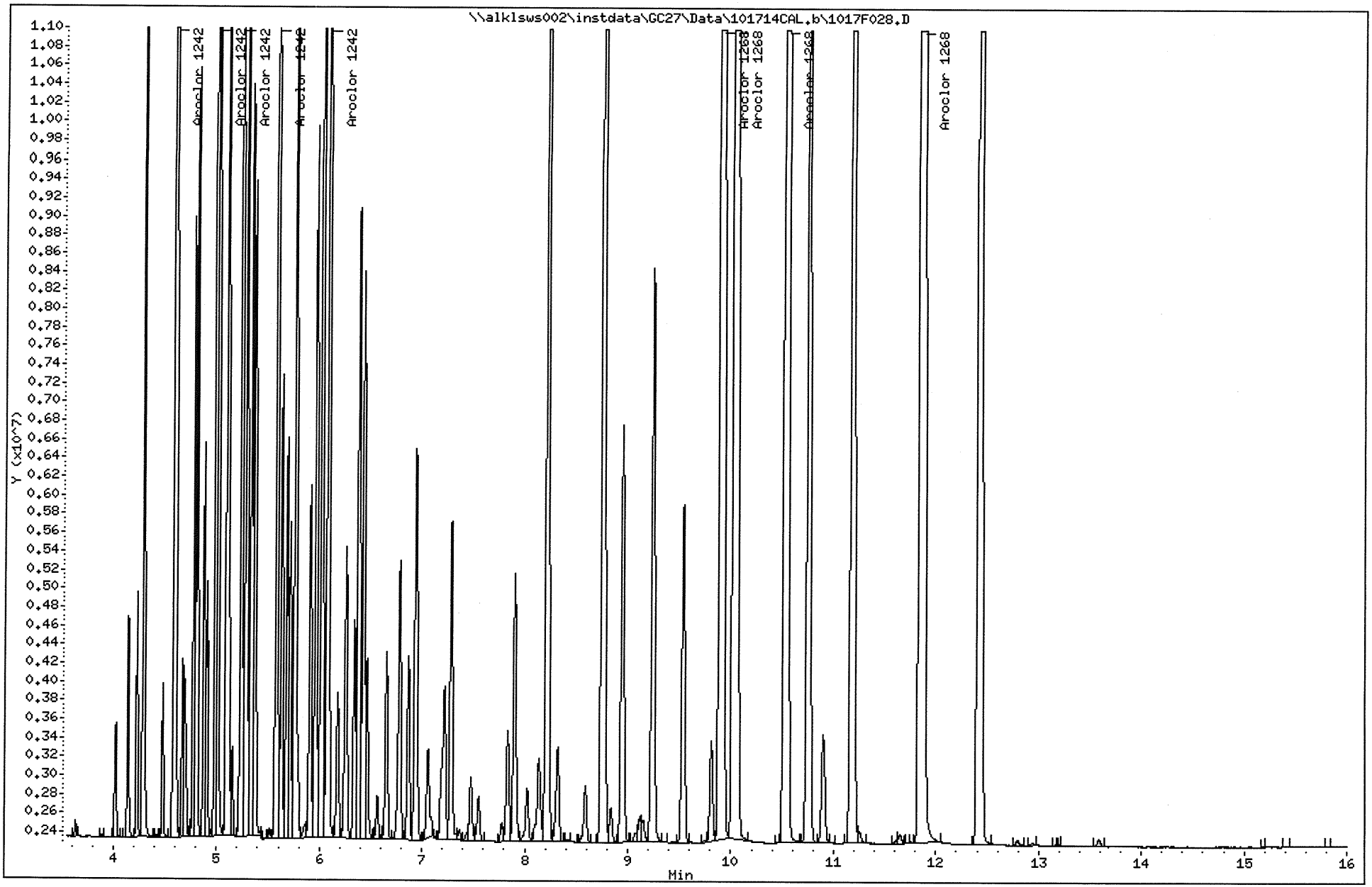
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



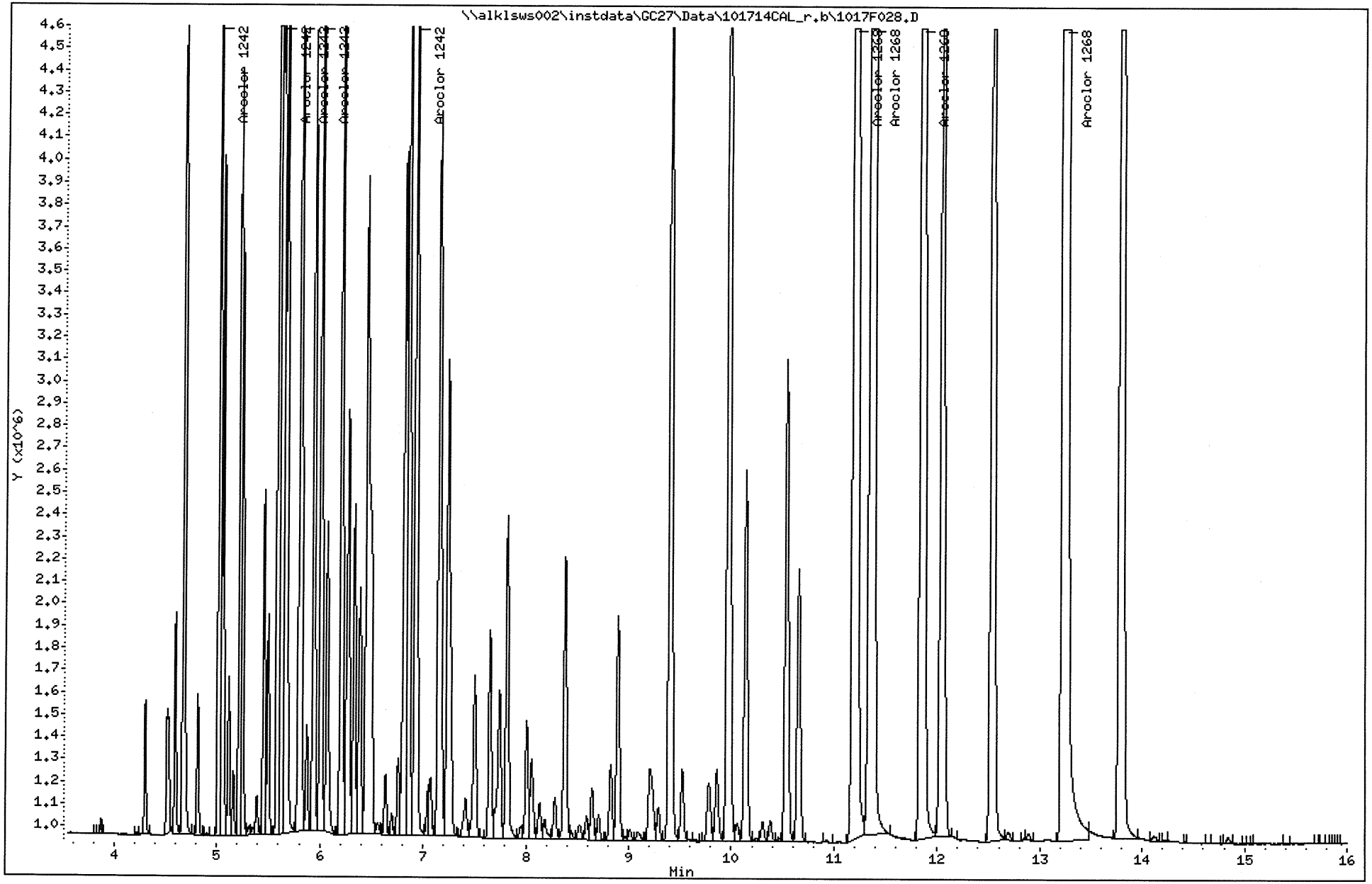
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F028.D
Date : 18-OCT-2014 12:22
Client ID:
Sample Info: 4268 @ 5000ppb PCB6-55E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Inj Date : 18-OCT-2014 12:45
Sample Info: 48 @ 25ppb PCB6-48J
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	142411	32653	30.4	26.2	80.00- 120.00	100.00
	5.366	5.589	123418	67561	28.3	26.2	69.33- 104.00	86.66
	5.762	6.009	192790	79614	30.0	26.8	108.30- 162.45	135.38
	5.962	6.449	136298	60580	27.8	25.3	76.57- 114.85	95.71
	6.379	7.156	131366	111652	28.4	26.2	73.80- 110.69	92.24
			Average of Peak Amounts =		29.0	26.1		

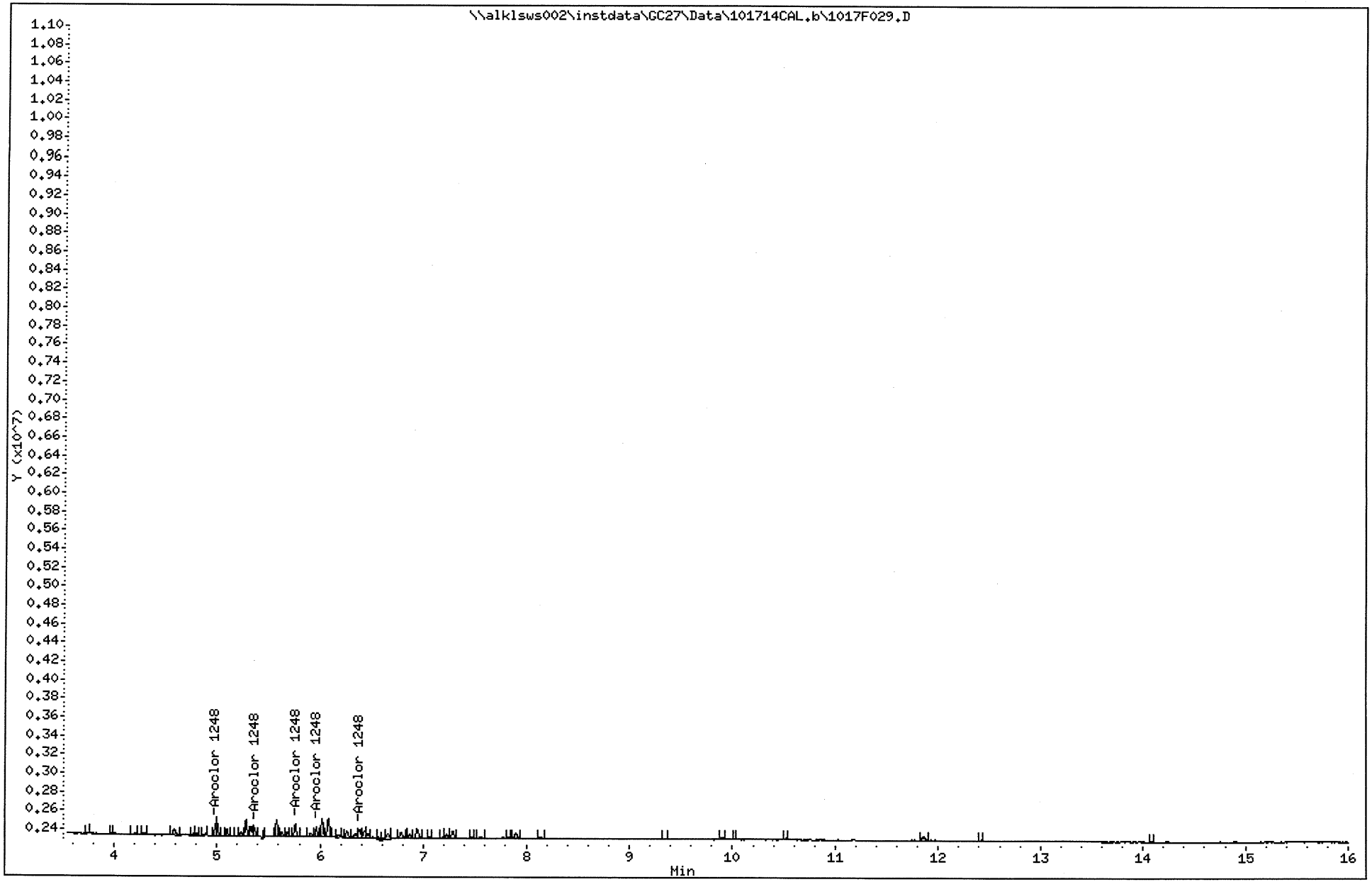
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

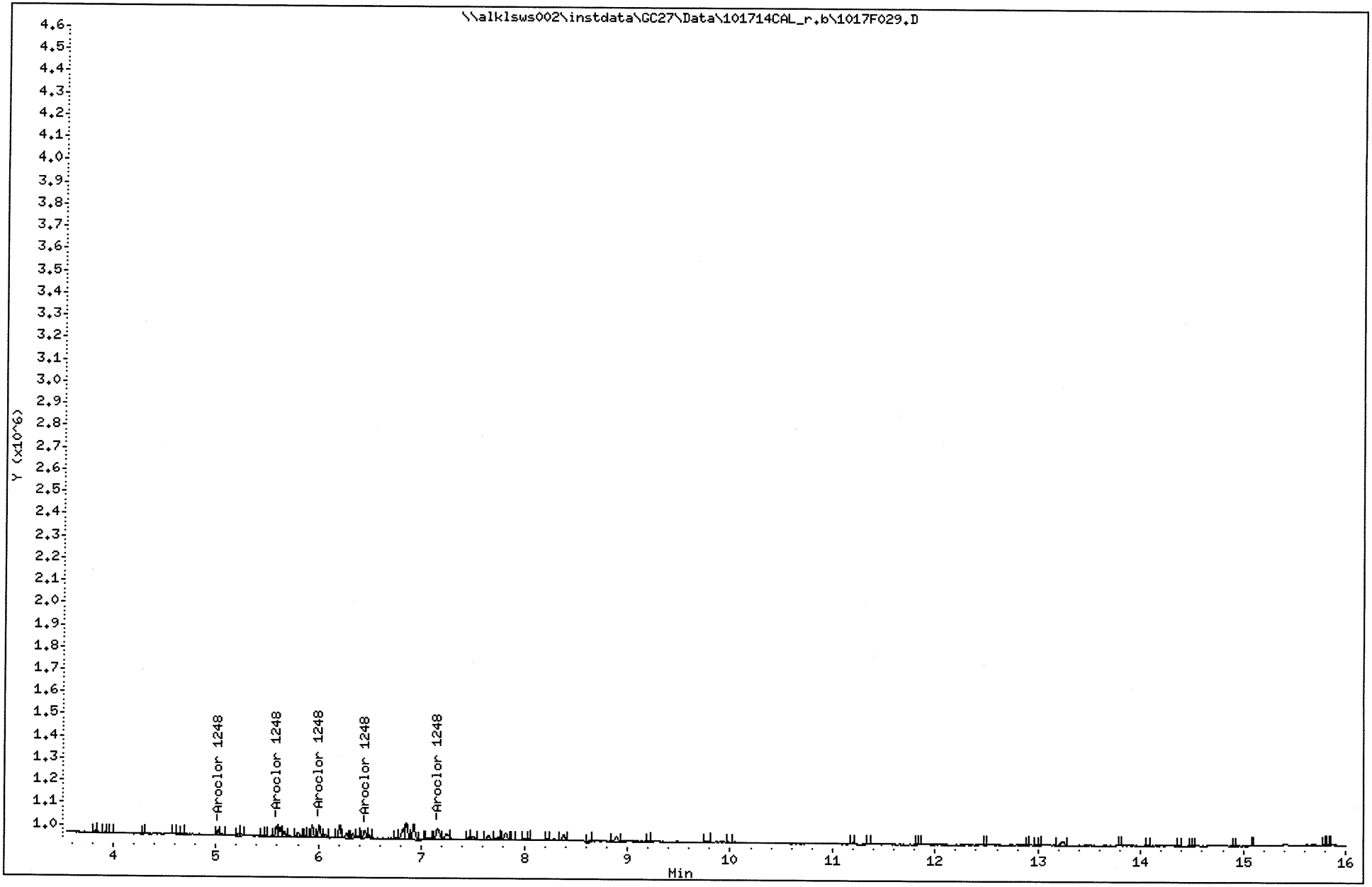


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Date : 18-OCT-2014 12:45
Client ID:
Sample Info: 48 @ 25ppb PCB6-48J

Column phase: DB-XLB

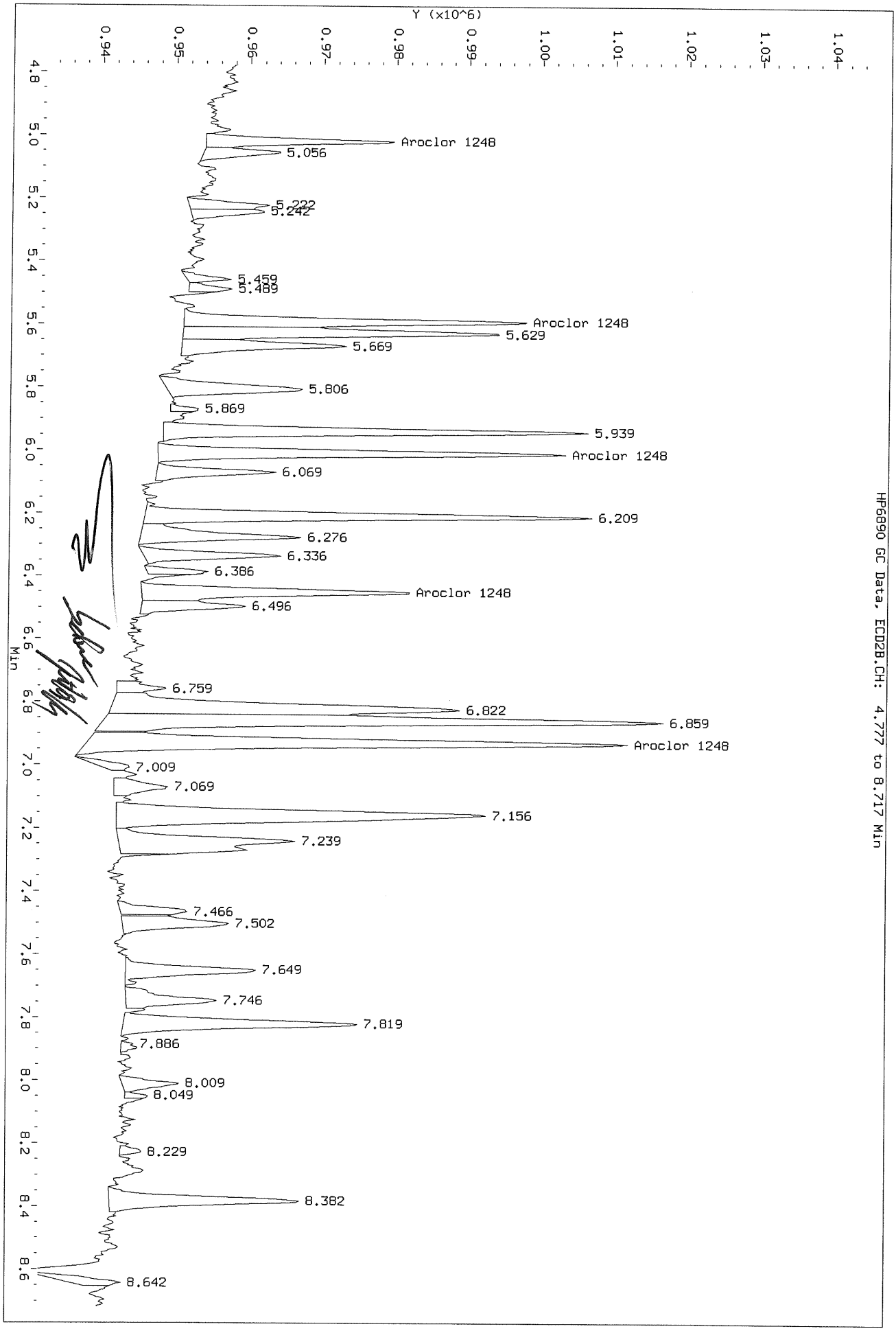
Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



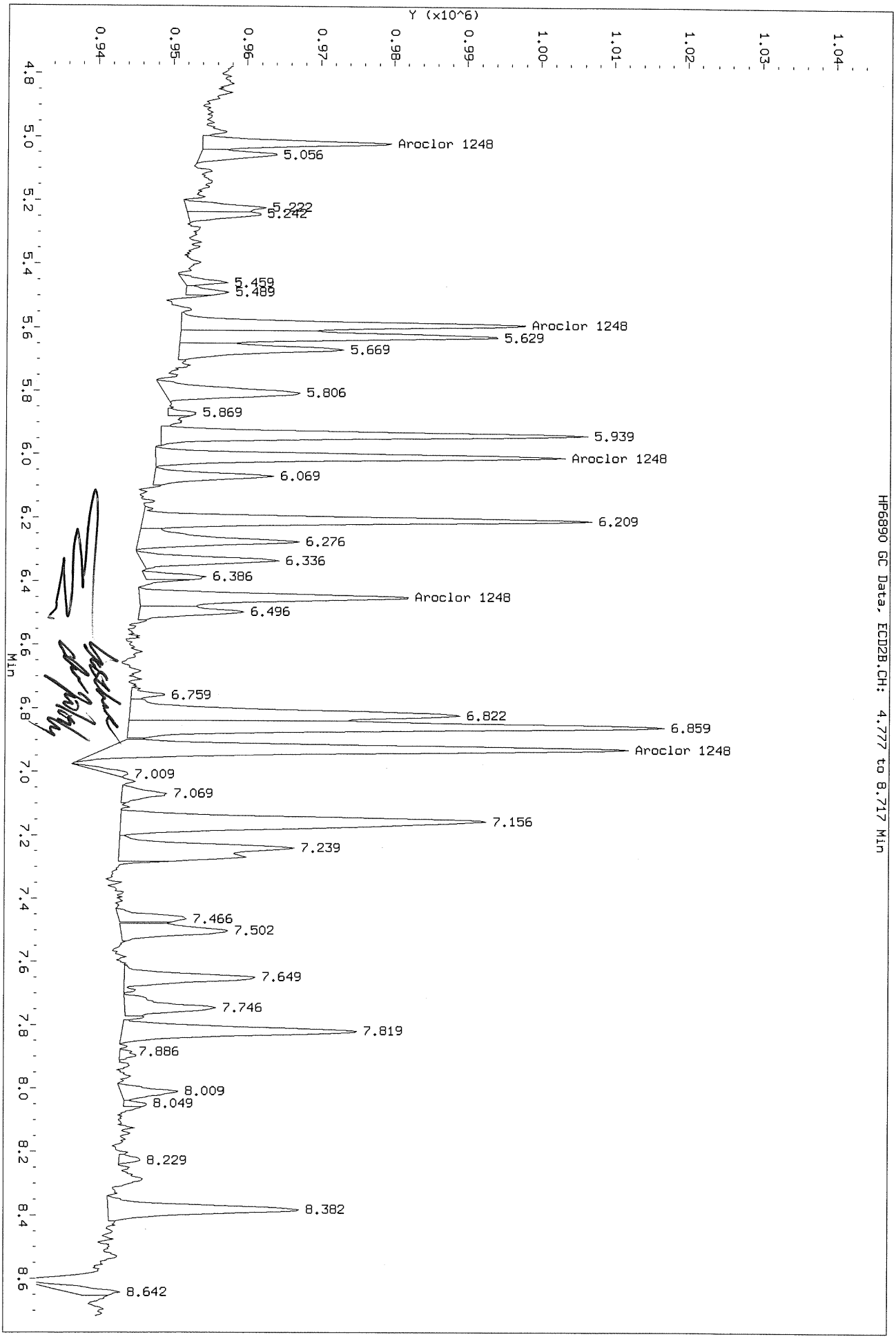
Data File: \\alklswsO02\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F029.D
Injection Date: 18-OCT-2014 12:45
Instrument: GC27.i
Client Sample ID:

HP6890 GC Data, ECD2B.CH: 4.777 to 8.717 Min



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Inj Date : 18-OCT-2014 13:08
Sample Info: 48 @ 50ppb PCB6-48I
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.986	5.020	265018	70501	56.6	56.6	80.00- 120.00	100.00
	5.363	5.590	219852	154598	50.4	59.9	66.37- 99.55	82.96
	5.763	6.010	307786	178775	47.9	60.1	92.91- 139.37	116.14
	5.963	6.450	239861	140342	48.8	58.5	72.41- 108.61	90.51
	6.380	7.156	224495	256710	48.5	60.2	67.77- 101.65	84.71
			Average of Peak Amounts =		50.4	59.1		

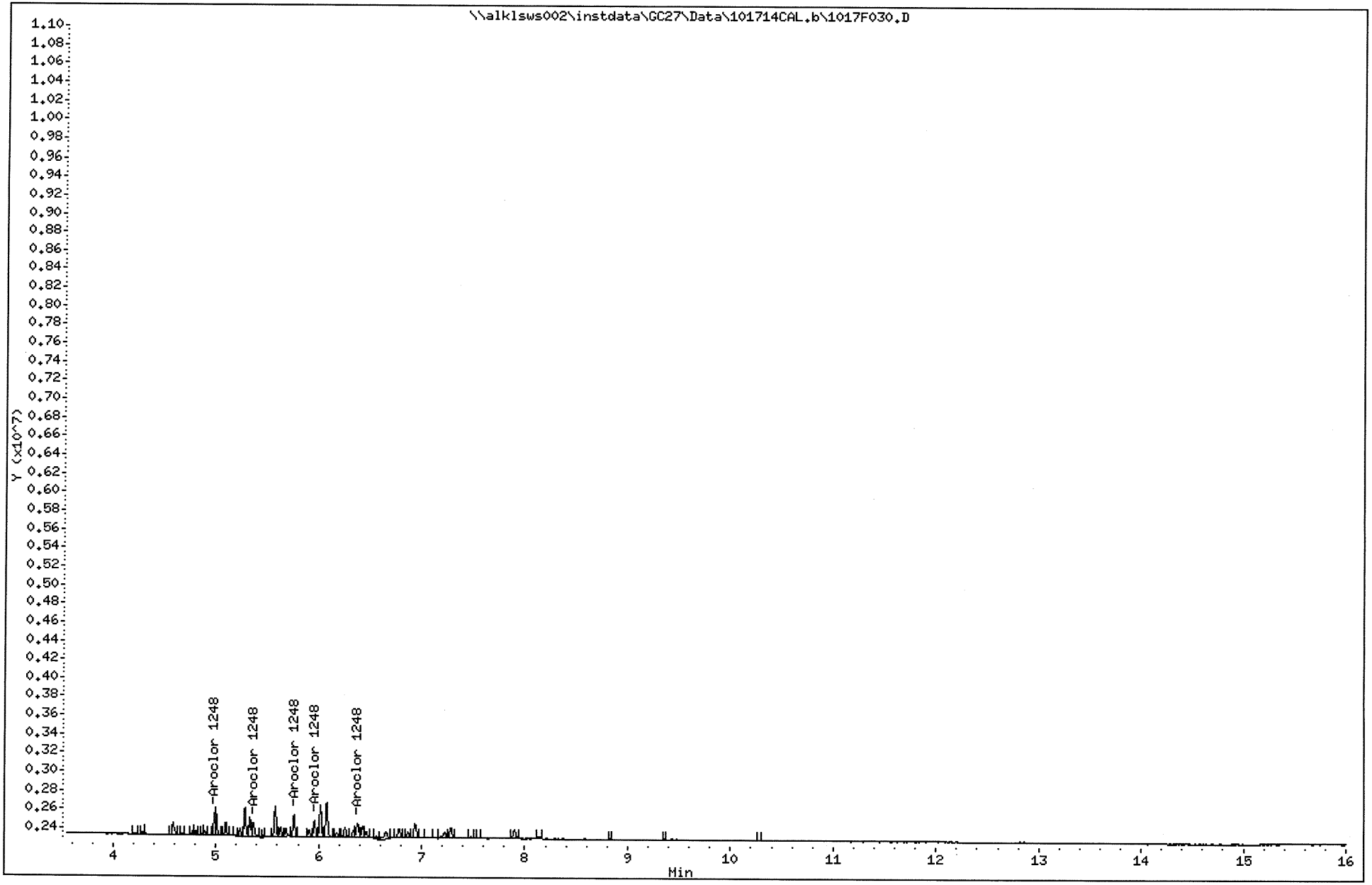
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



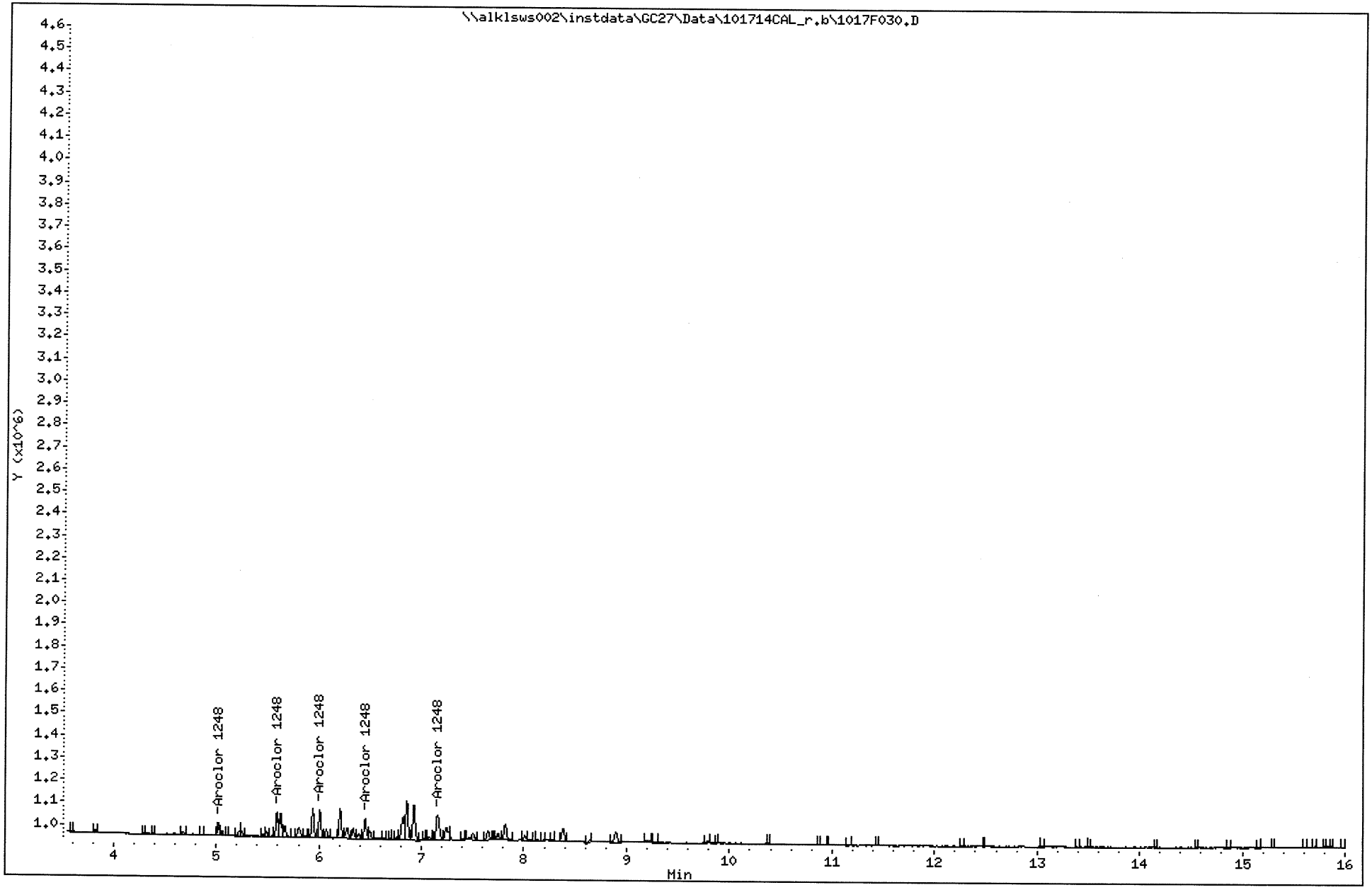
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Date : 18-OCT-2014 13:08
Client ID:
Sample Info: 48 @ 50ppb PCB6-48I

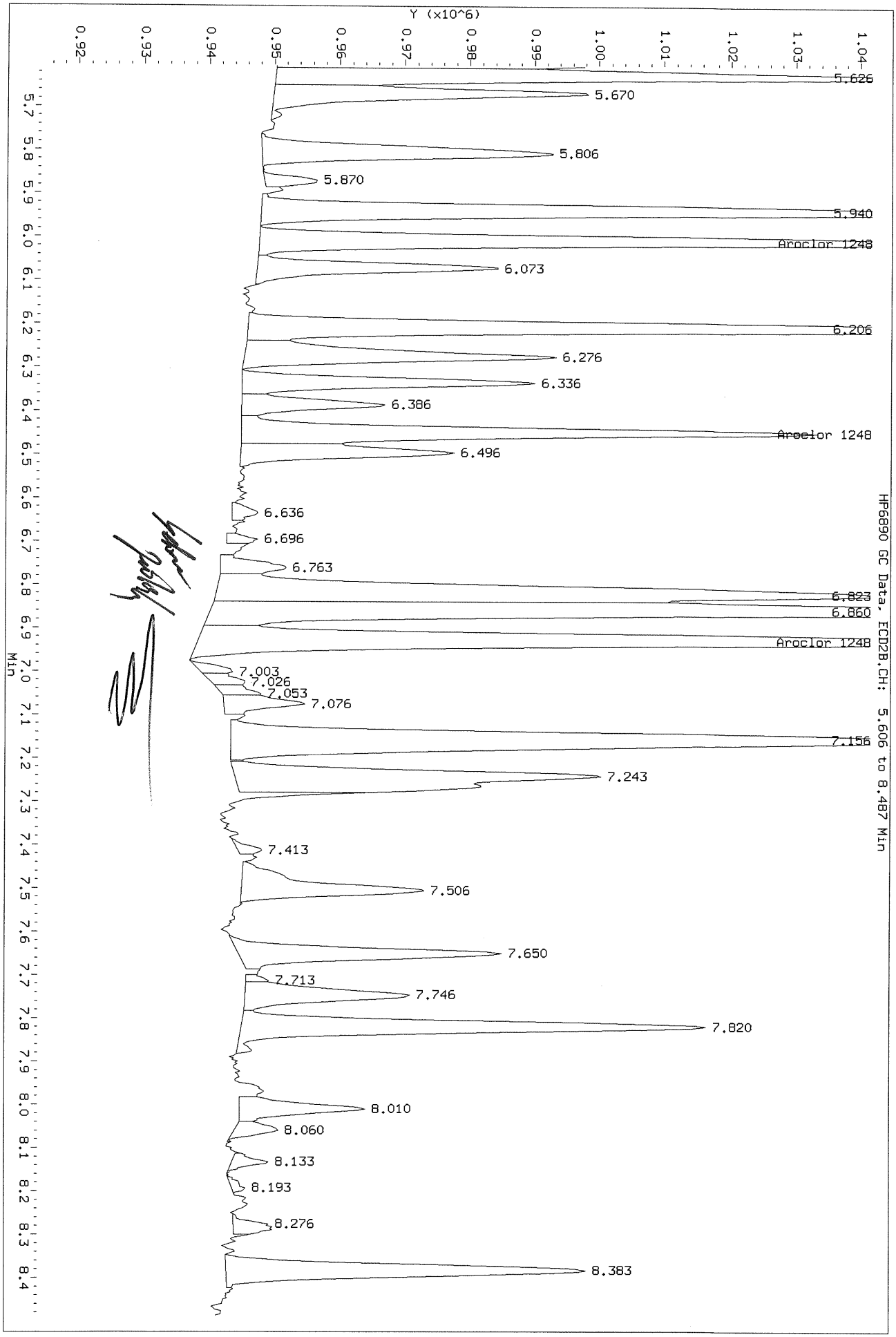
Instrument: GC27.i

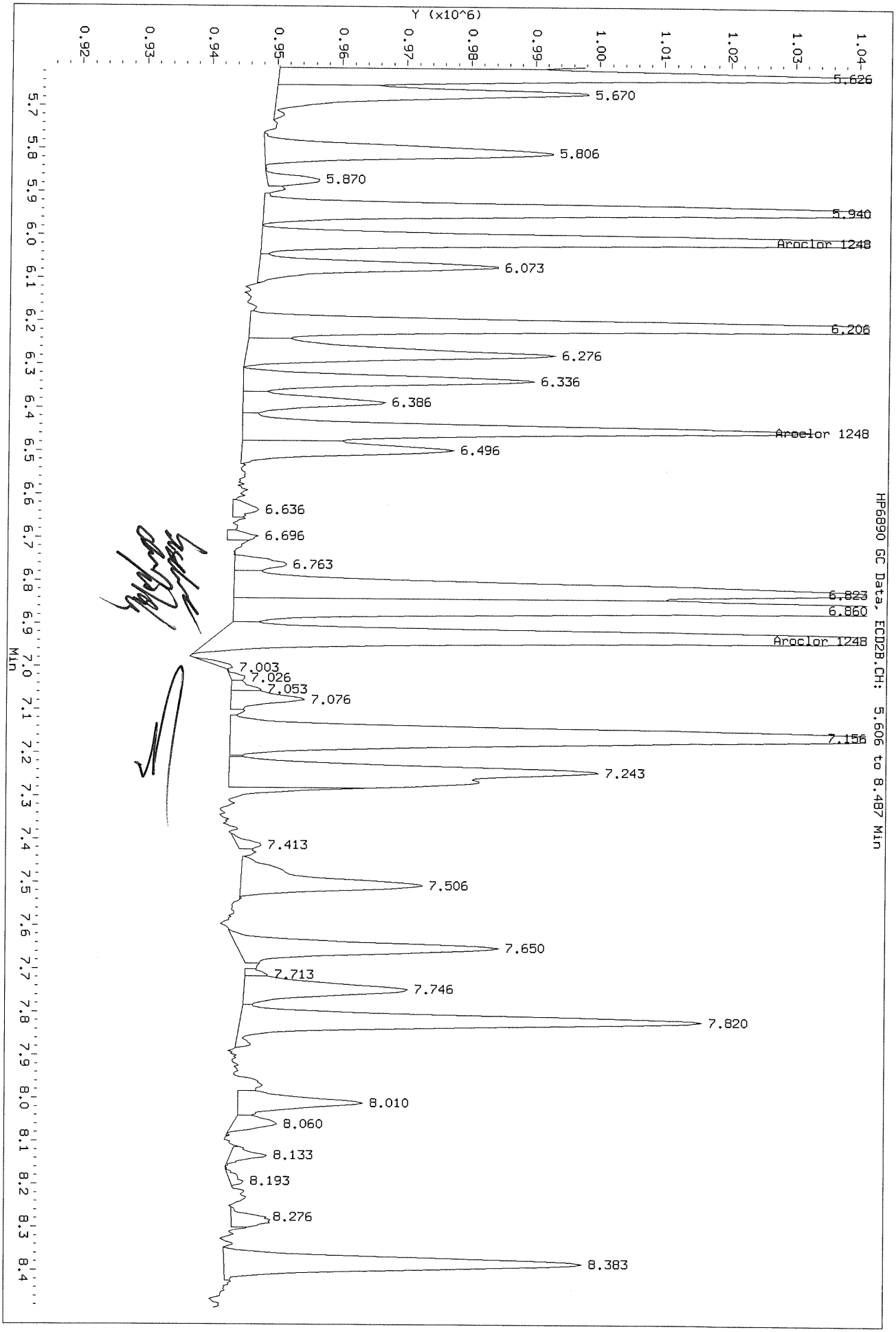
Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
7.506
7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F030.D
Injection Date: 18-OCT-2014 13:08
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 5.606 to 8.487 Min
Y (x10^6)
Min
5.626
5.670
5.806
5.870
5.940
Aroclor 1248
6.073
6.206
6.276
6.336
6.386
Aroclor 1248
6.496
6.636
6.696
6.763
6.823
6.860
Aroclor 1248
7.003
7.026
7.053
7.076
7.156
7.243
7.413
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7.650
7.713
7.746
7.820
8.010
8.060
8.133
8.193
8.276
8.383

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Inj Date : 18-OCT-2014 13:31
Sample Info: 48 @ 500ppb PCB6-48H
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.021	2418326	670349	516	538	80.00- 120.00	100.00
	5.364	5.591	2477163	1387028	568	538	81.95- 122.92	102.43
	5.764	6.008	3515443	1550951	547	522	116.29- 174.44	145.37
	5.961	6.451	2758307	1277885	562	533	91.25- 136.87	114.06
	6.381	7.158	2597079	2250684	561	527	85.91- 128.87	107.39
			Average of Peak Amounts =		551	532		

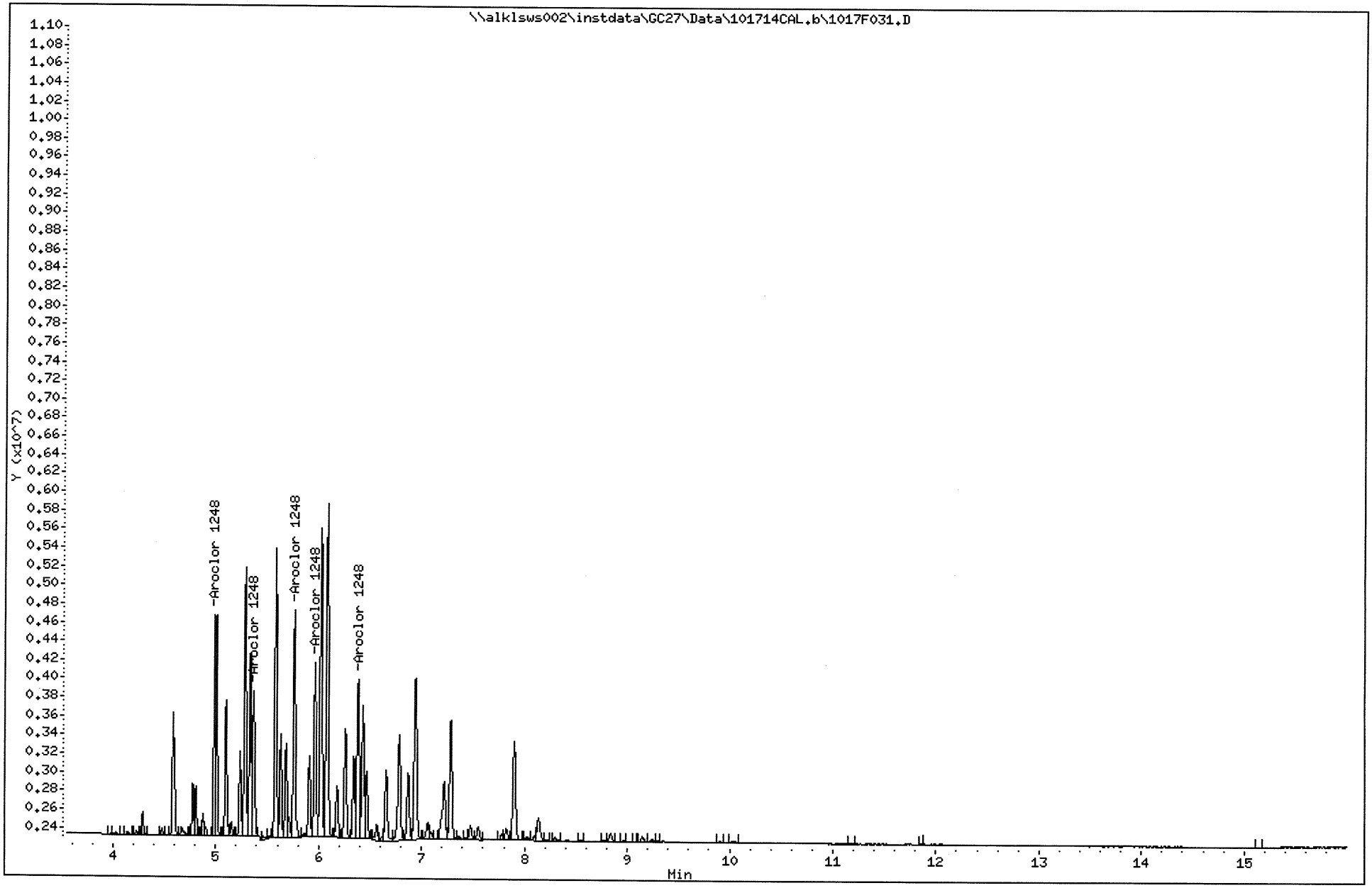
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



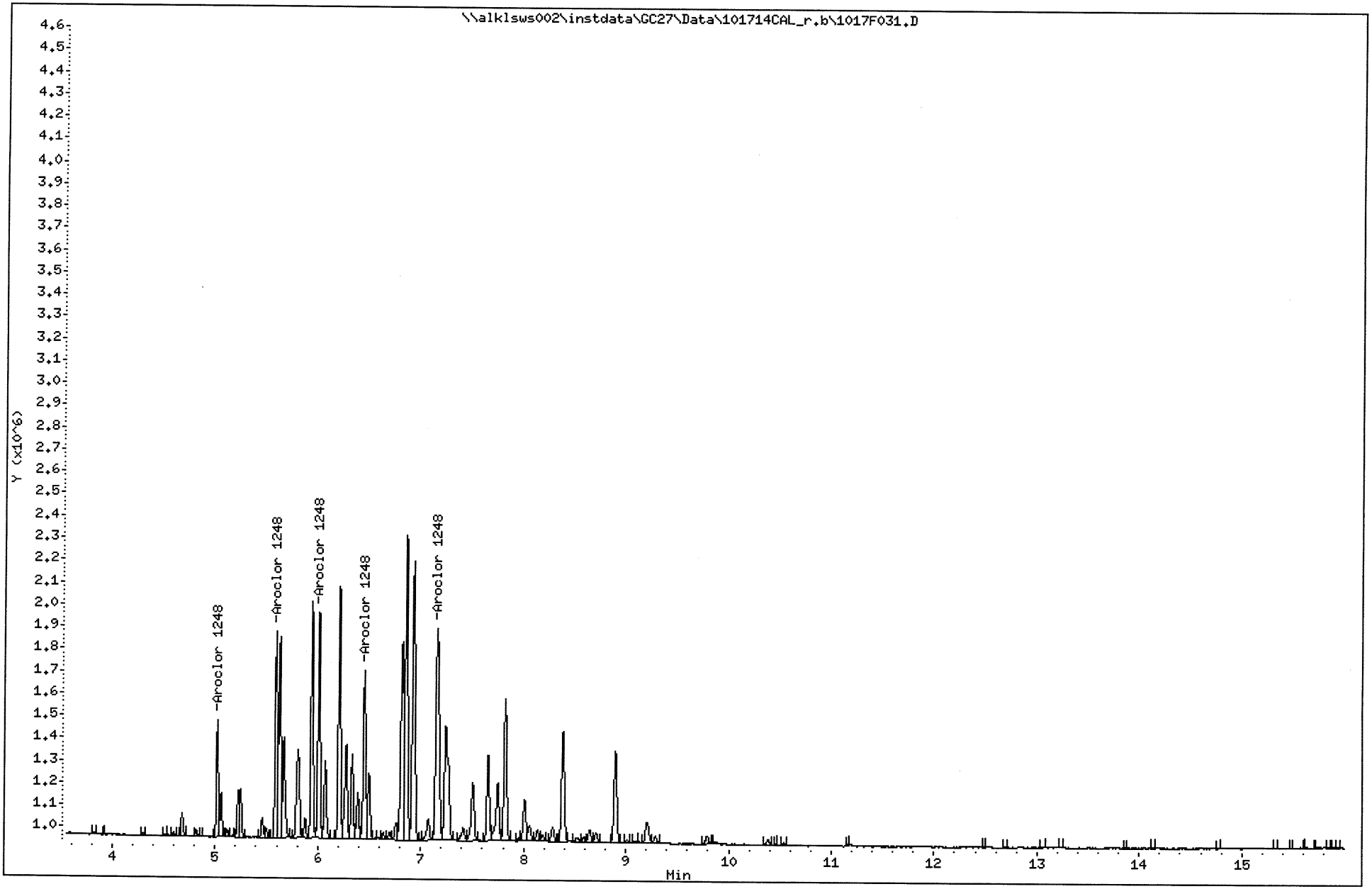
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F031.D
Date : 18-OCT-2014 13:31
Client ID:
Sample Info: 48 @ 500ppb PCB6-48H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Inj Date : 18-OCT-2014 13:54
Sample Info: 48 @ 1000ppb PCB6-48G
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

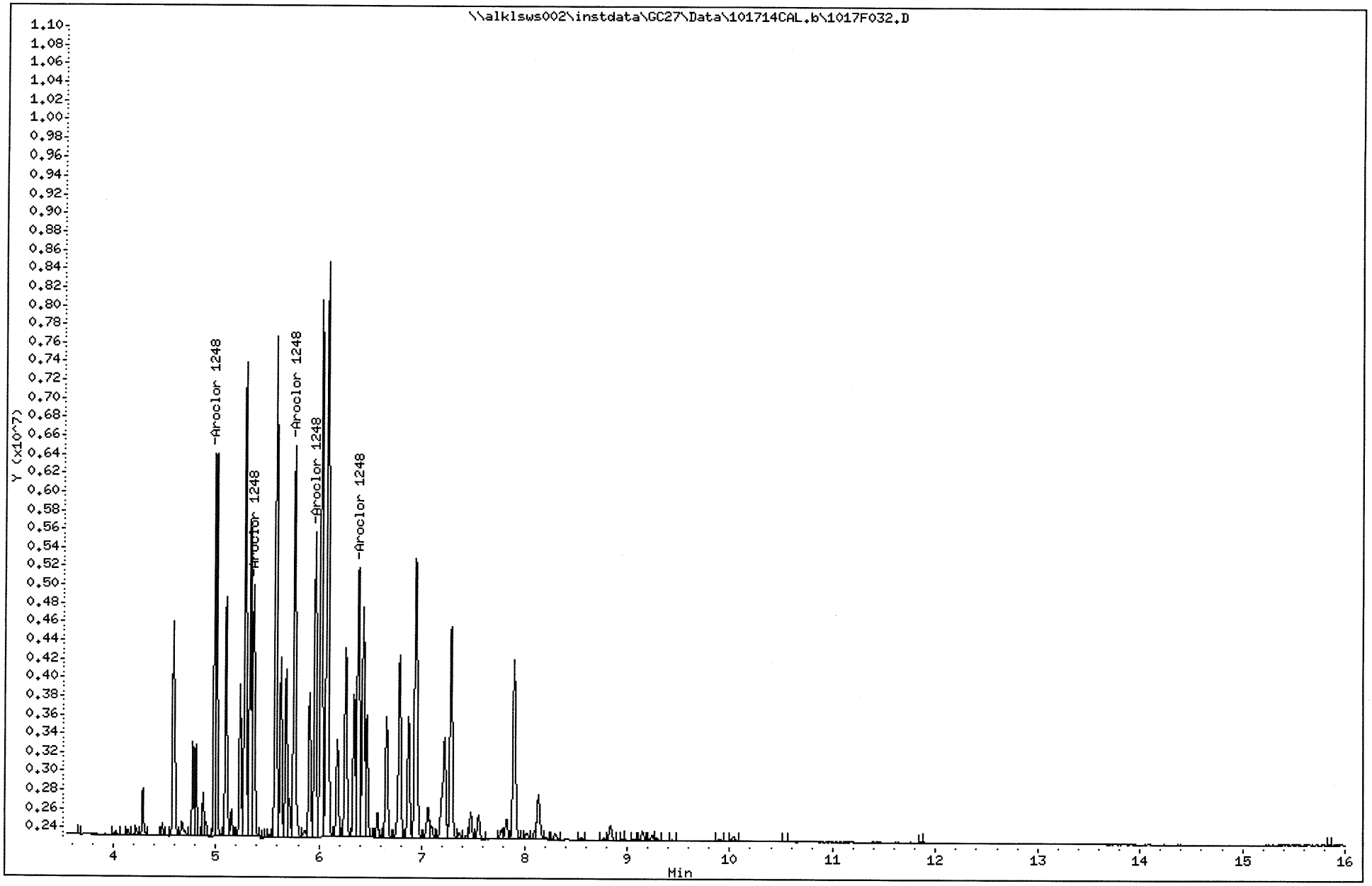
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.989	5.019	4338238	1174038	926	942	80.00- 120.00	100.00
	5.366	5.593	4247576	2286273	974	886	78.33- 117.49	97.91
	5.766	6.010	6193231	2673490	964	899	114.21- 171.31	142.76
	5.963	6.450	4866746	2255052	991	940	89.75- 134.62	112.18
	6.383	7.156	4557222	3851778	984	903	84.04- 126.06	105.05
			Average of Peak Amounts =		968	914		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



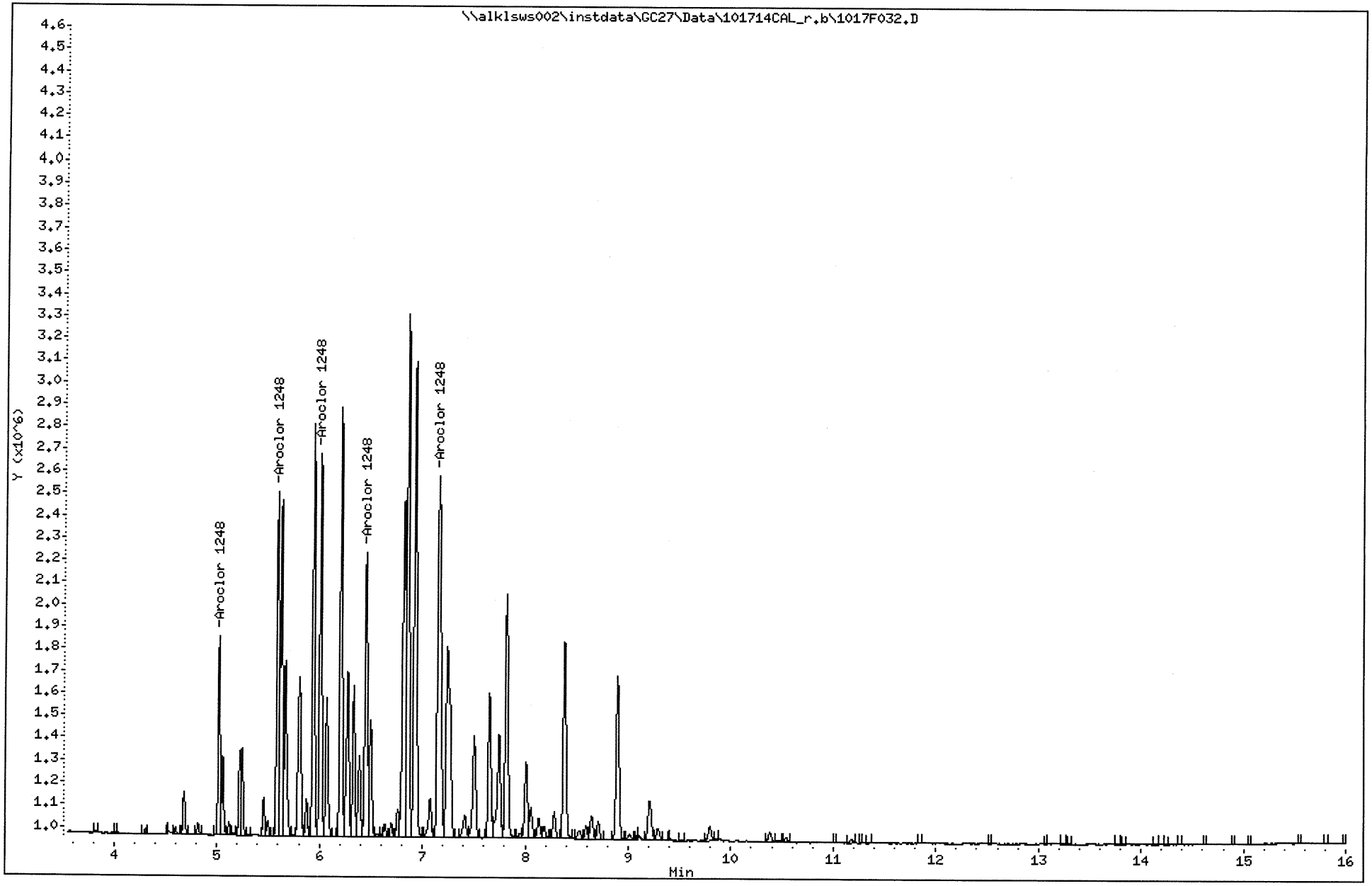
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F032.D
Date : 18-OCT-2014 13:54
Client ID:
Sample Info: 48 @ 1000ppb PCB6-48G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Report Date: 19-Oct-2014 04:53

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Inj Date : 18-OCT-2014 14:17
Sample Info: 48 @ 2000ppb PCB6-48F
Misc Info :
Cal Date : 19-OCT-2014 04:53
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.990	5.020	8215894	1997990	1750	1600	80.00- 120.00	100.00
	5.367	5.590	7603123	4080738	1740	1580	74.03- 111.05	92.54
	5.763	6.010	11482785	4668727	1790	1570	111.81- 167.72	139.76
	5.963	6.450	8893623	3908055	1810	1630	86.60- 129.90	108.25
	6.380	7.157	8436810	6764031	1820	1590	82.15- 123.23	102.69
			Average of Peak Amounts =		1780	1590		

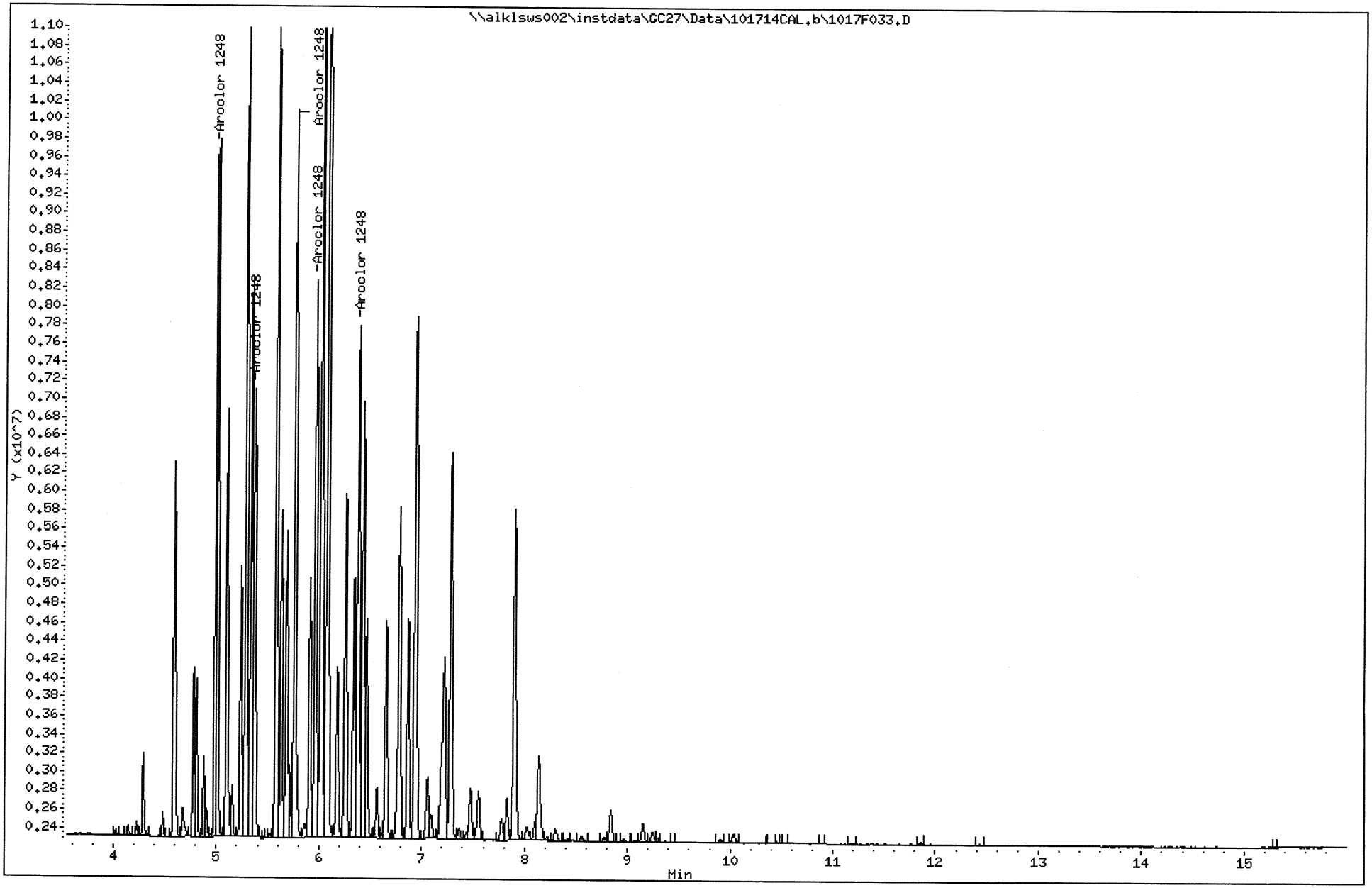
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

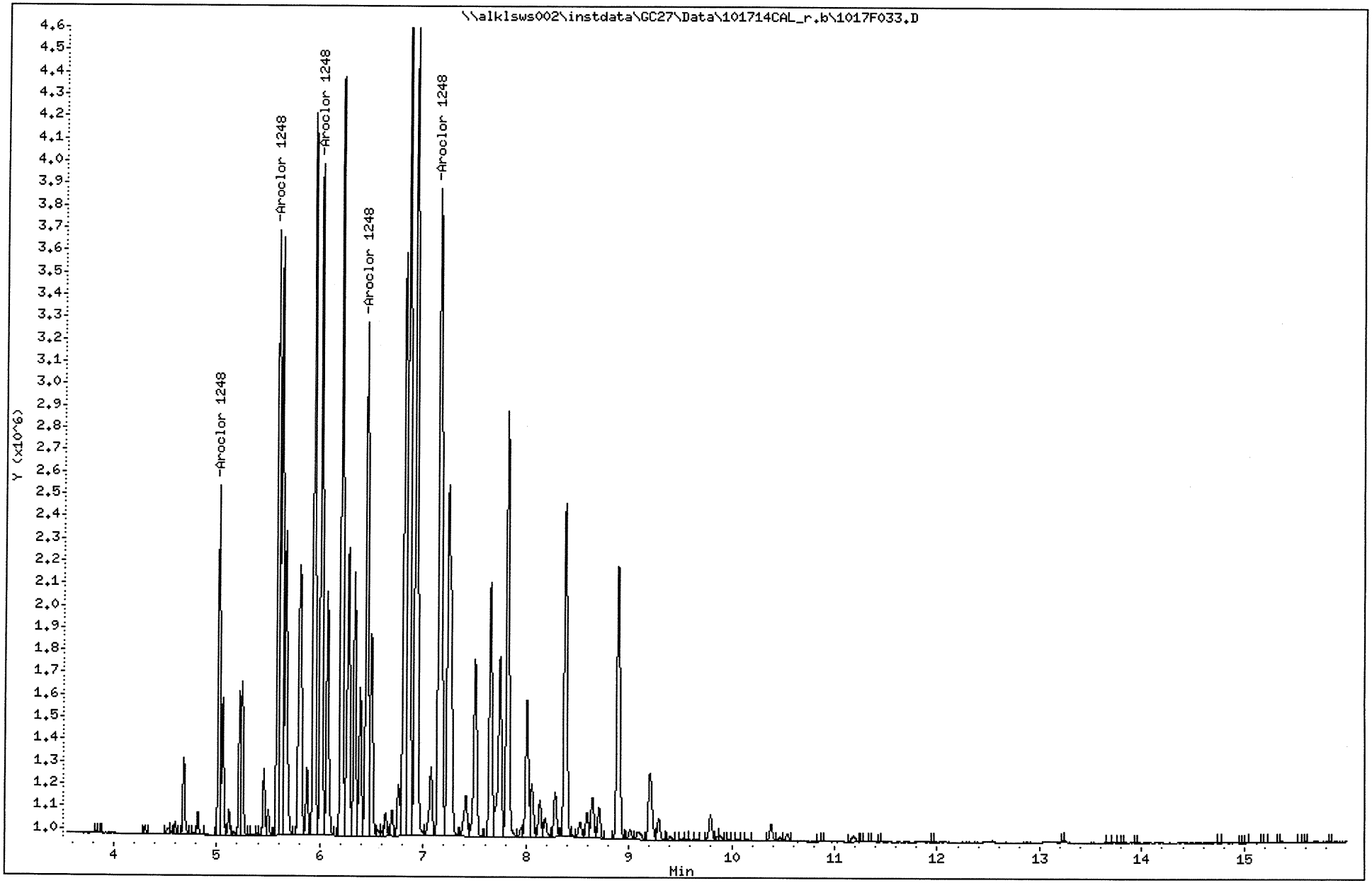


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F033.D
Date : 18-OCT-2014 14:17
Client ID:
Sample Info: 48 @ 2000ppb PCB6-48F

Column phase: DB-XLB

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Inj Date : 18-OCT-2014 14:40
Sample Info: 48 @ 5000ppb PCB6-48E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	19164843	5112421	4090	4100	80.00- 120.00	100.00
	5.365	5.592	19140018	10779281	4390	4180	79.90- 119.84	99.87
	5.765	6.012	28588874	12047240	4450	4050	119.34- 179.01	149.17
	5.961	6.452	21912167	10307000	4460	4300	91.47- 137.20	114.34
	6.381	7.158	20356199	17764050	4400	4160	84.97- 127.46	106.22
			Average of Peak Amounts =		4360	4160		

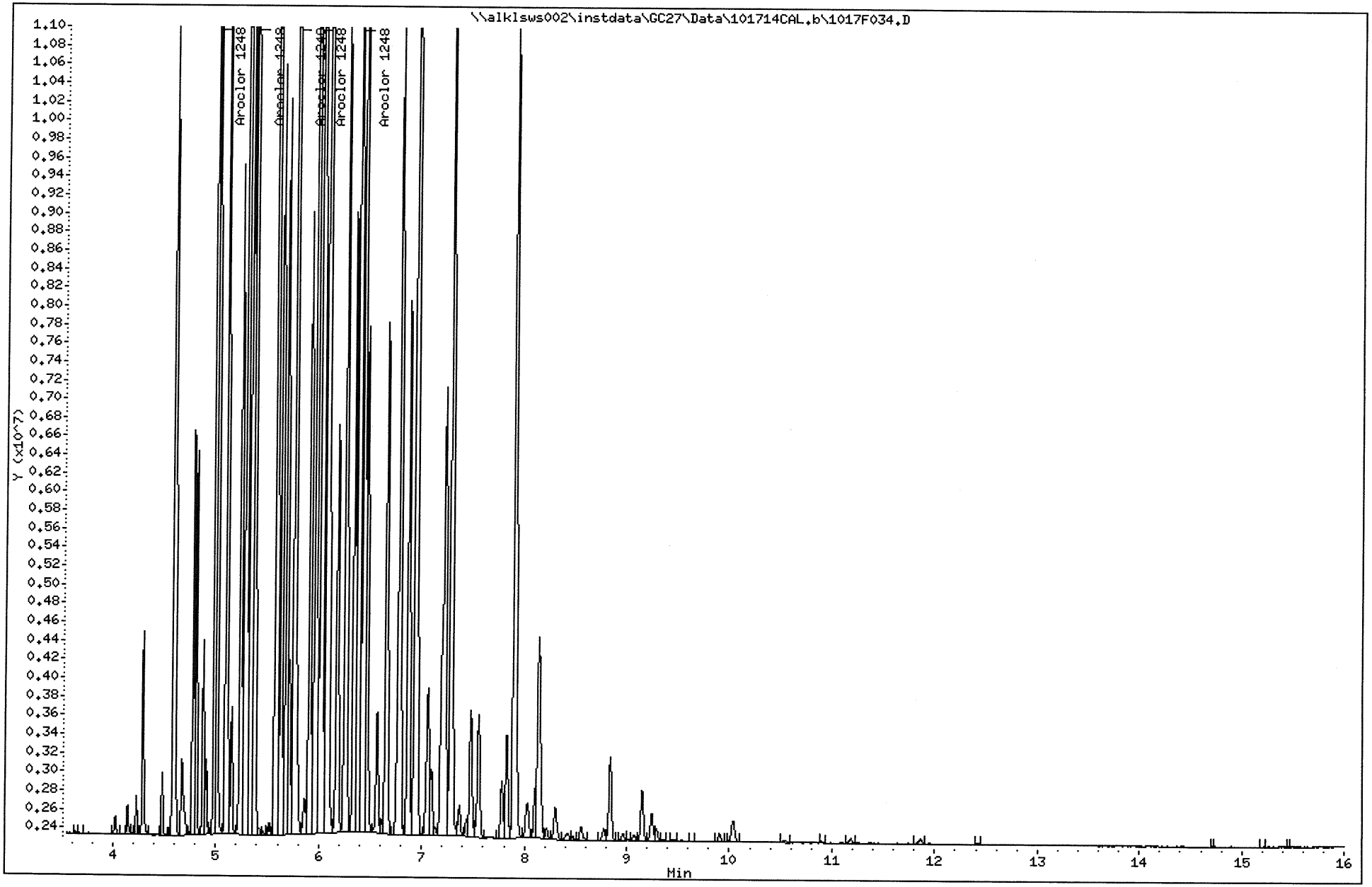
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

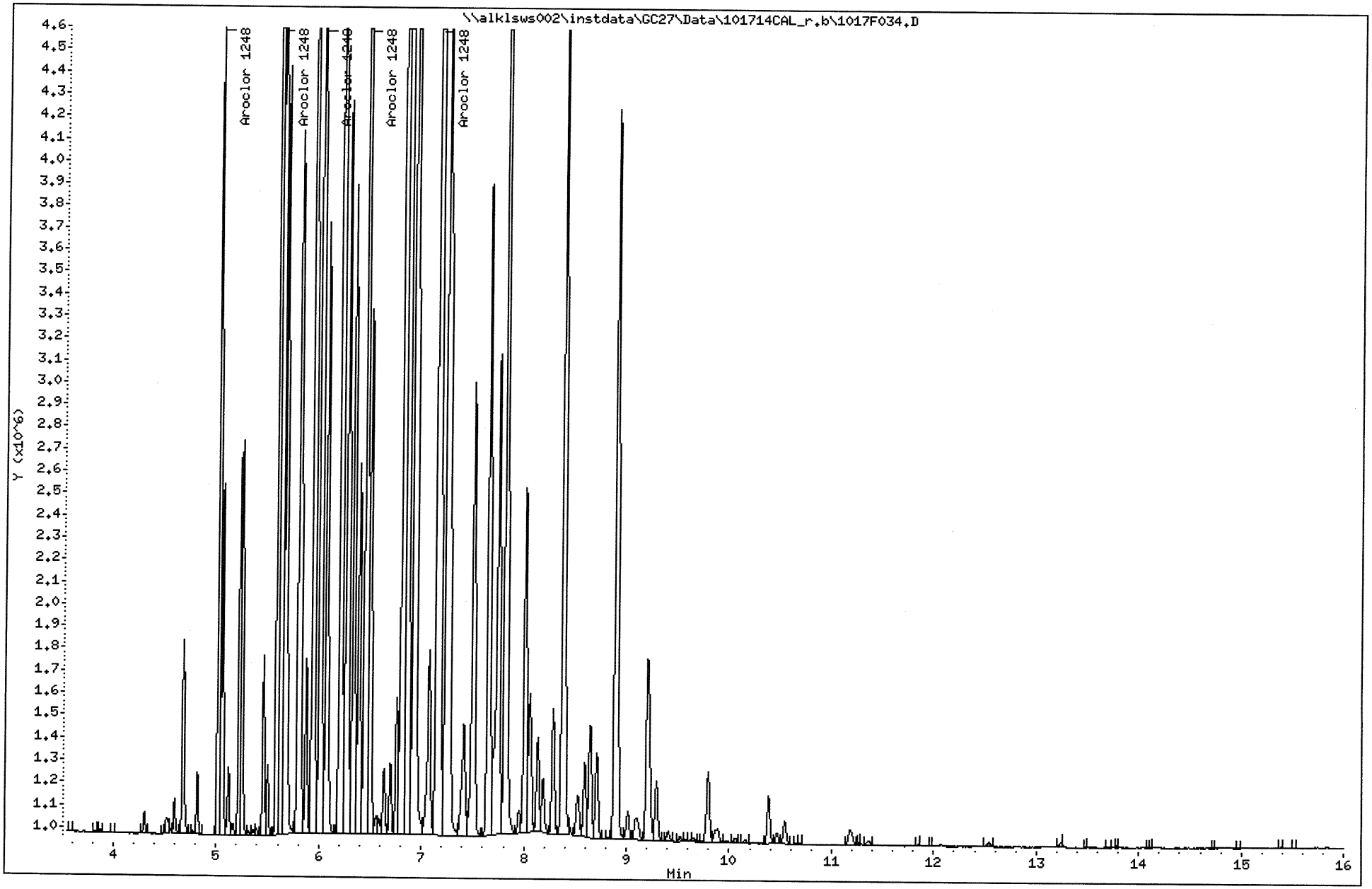


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F034.D
Date : 18-OCT-2014 14:40
Client ID:
Sample Info: 48 @ 5000ppb PCB6-48E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Inj Date : 18-OCT-2014 15:26
Sample Info: 1221 ICV @ 1000ppb PCB6-54C
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1221.SUB
Sub List #2 : AR1221.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1221	4.141	4.531	2179468	1029789	1110	1100	80.00- 120.00	100.00
	4.228	4.595	1500386	678725	1100	1090	53.05- 79.58	68.84
	4.288	4.678	5197664	2361599	1070	1050	187.61- 281.41	238.48
			Average of Peak Amounts =		1090	1080		

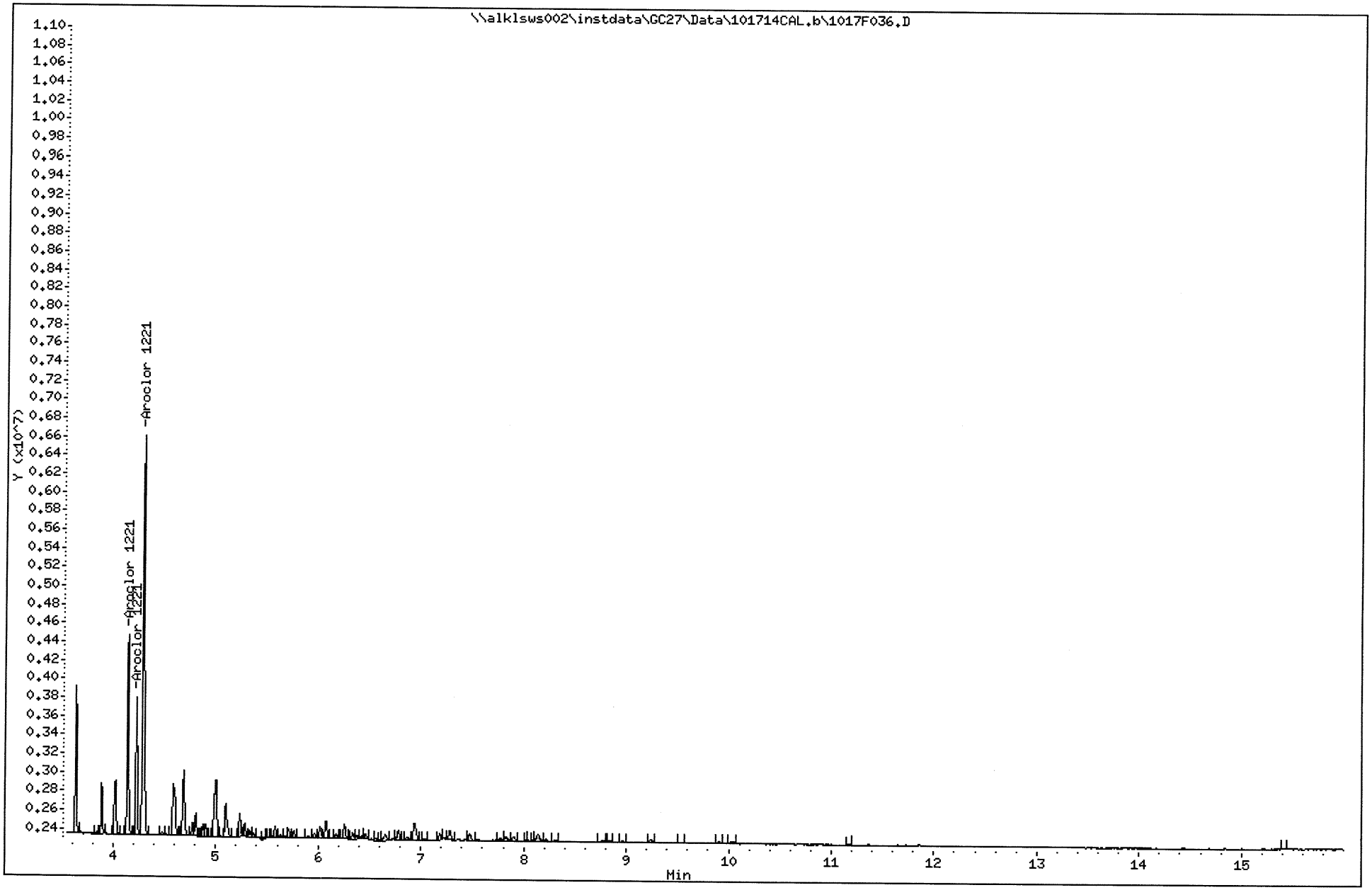
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



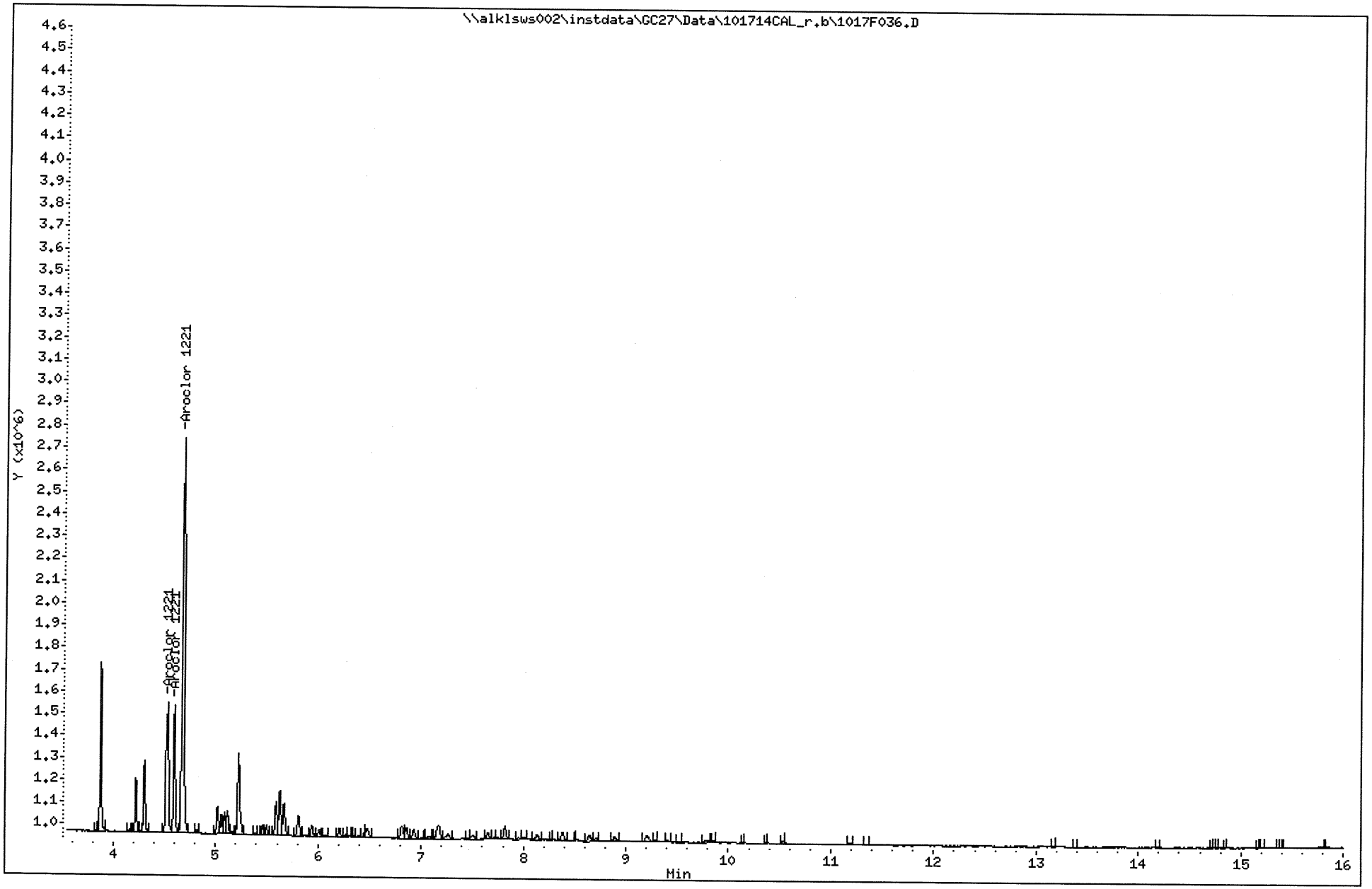
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F036.D
Date : 18-OCT-2014 15:26
Client ID:
Sample Info: 1221 ICV @ 1000ppb PCB6-54C

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Inj Date : 18-OCT-2014 15:49
Sample Info: 1232 ICV @ 1000ppb PCB6-54D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1232.SUB
Sub List #2 : AR1232.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1232	4.141	4.677	1383558	1944358	946	1010	80.00- 120.00	100.00
	4.287	5.021	4191823	1130699	949	1130	226.27- 339.41	302.97
	4.587	5.224	3881261	944308	996	1070	197.07- 295.60	280.53
	5.004	5.591	4464668	1672700	978	1090	248.44- 372.66	322.69
	5.101	6.011	3188040	879821	1050	1070	166.69- 250.03	230.42
			Average of Peak Amounts =		984	1070		

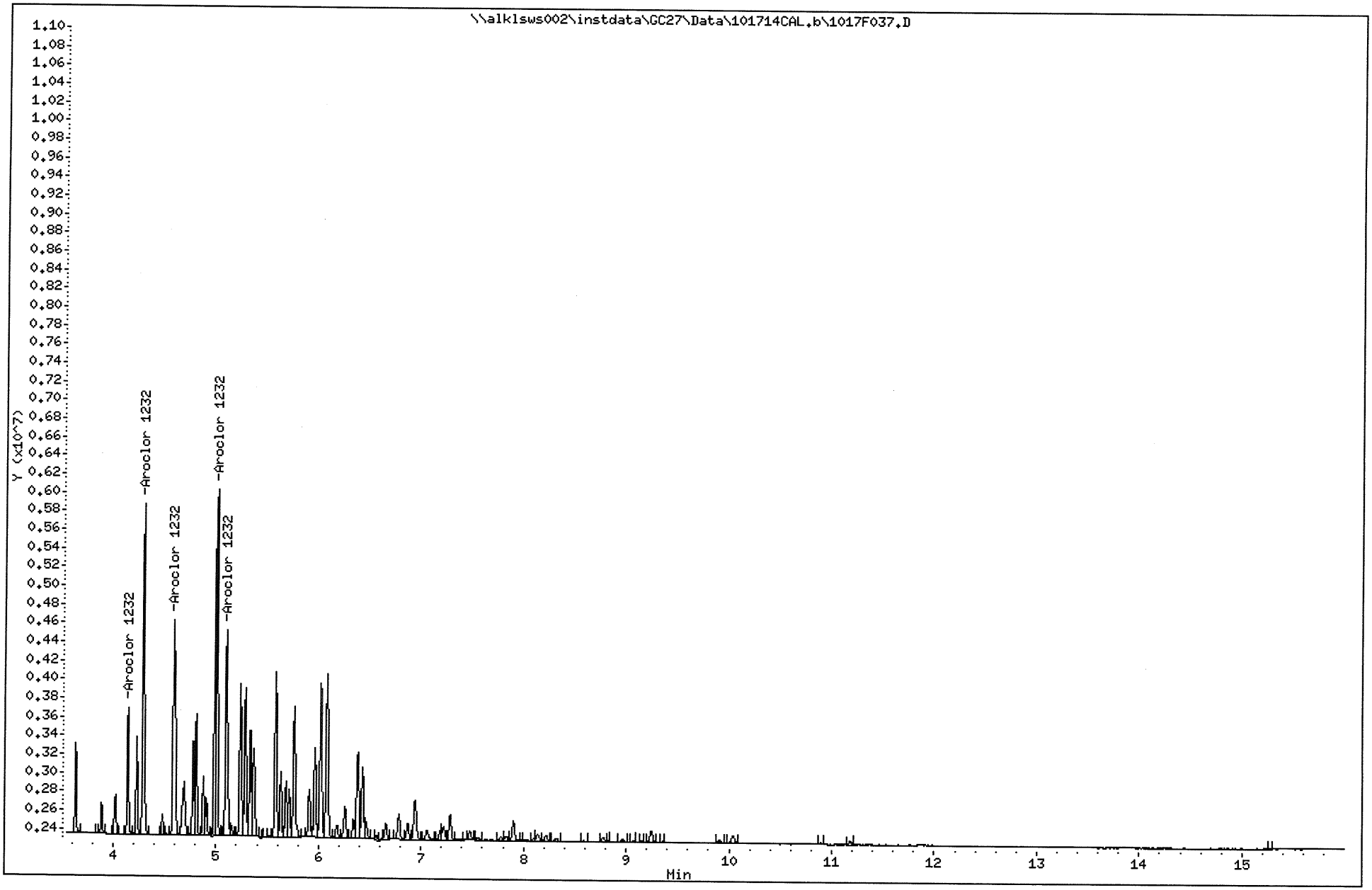
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



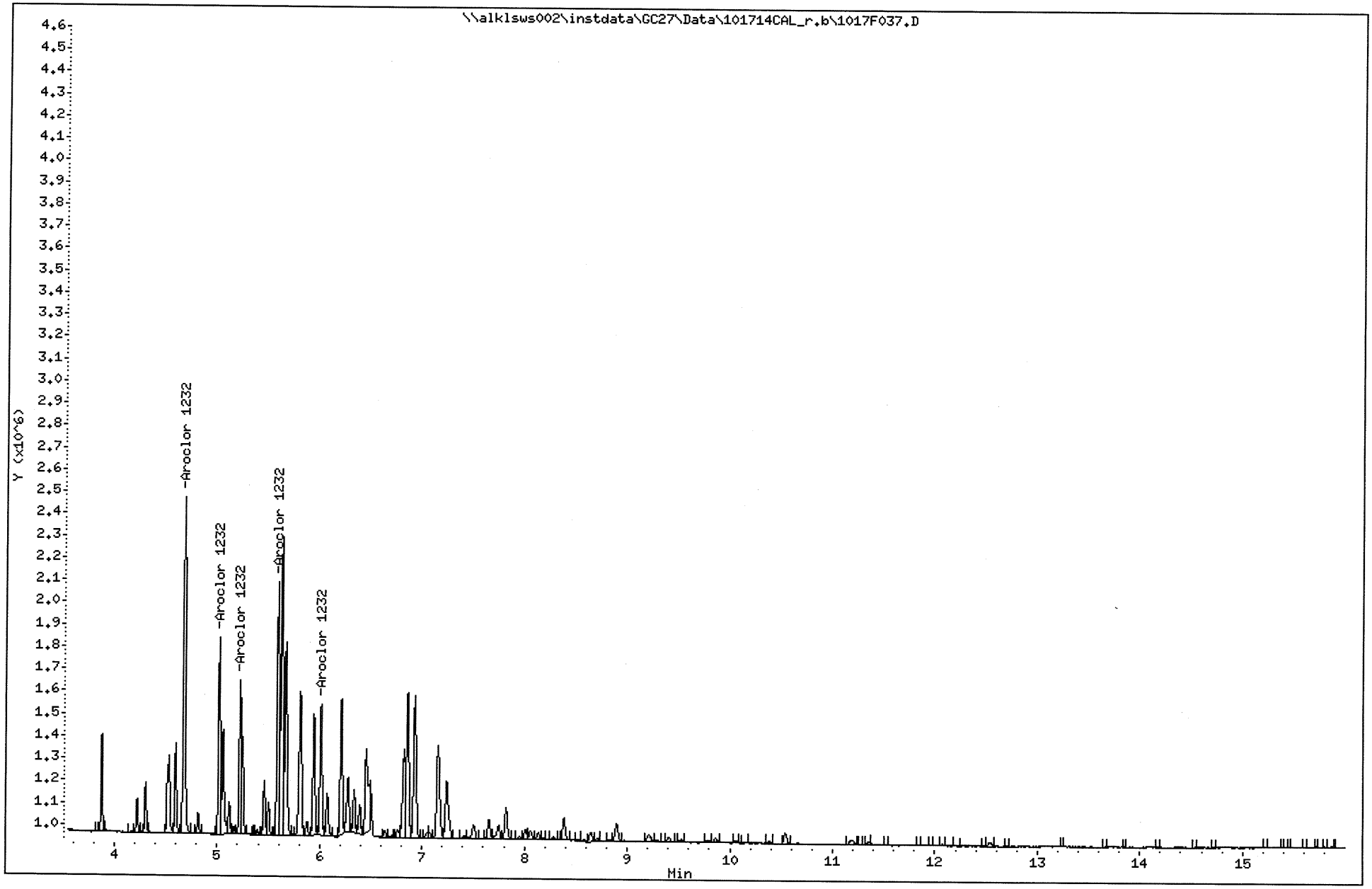
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Date : 18-OCT-2014 15:49
Client ID:
Sample Info: 1232 ICV @ 1000ppb PCB6-54D

Instrument: GC27.i

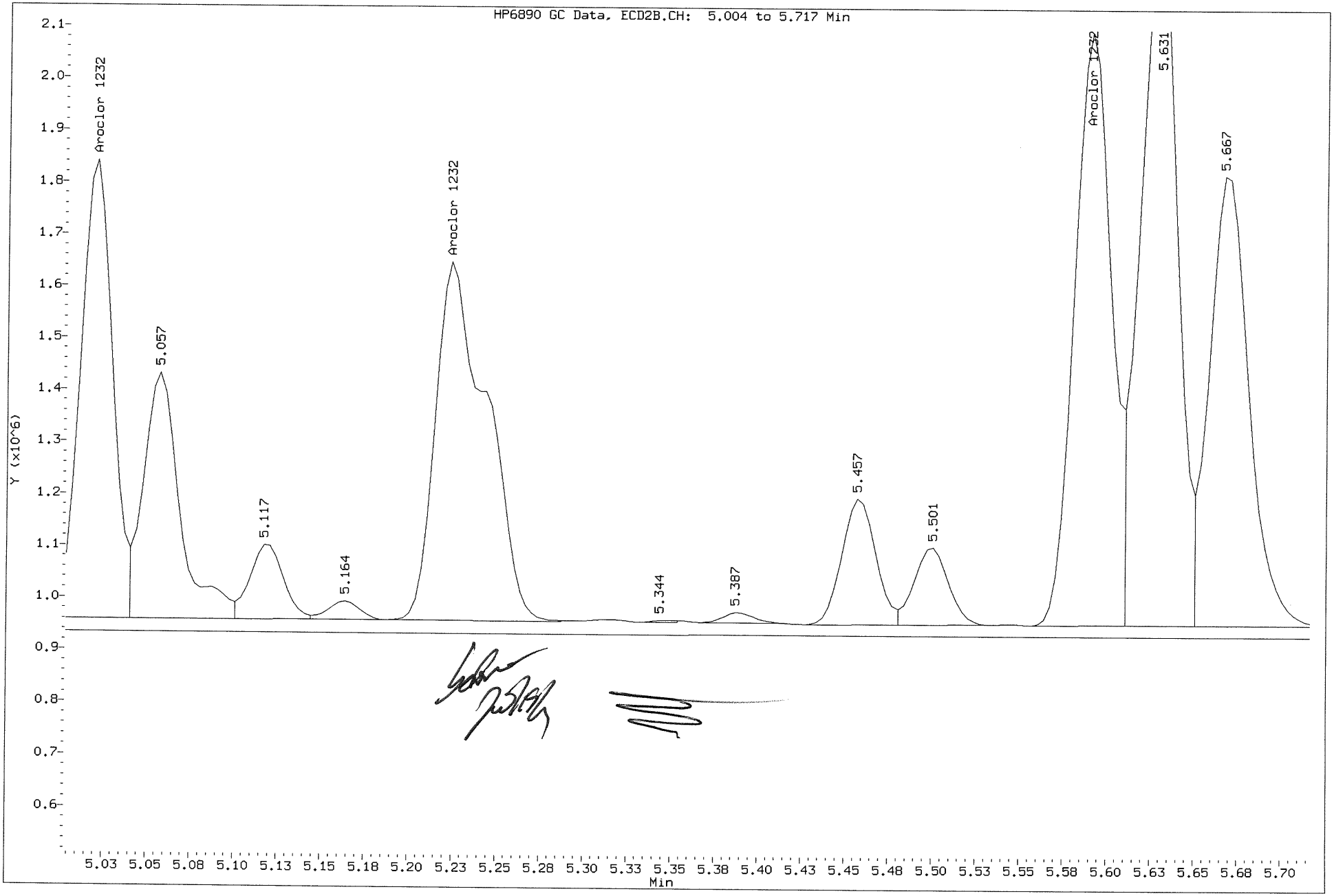
Operator: JMSmith

Column phase: DB-XLB

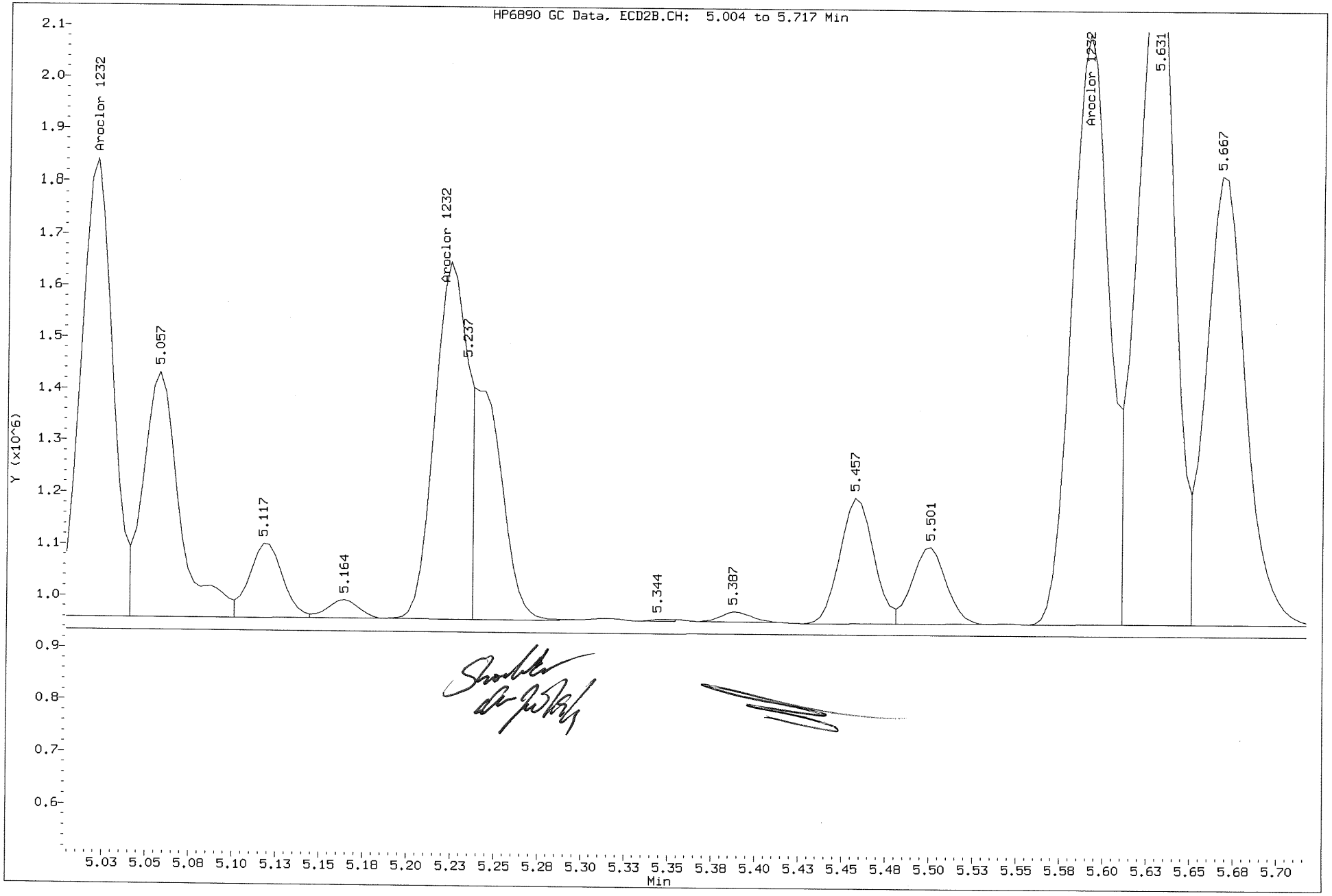
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F037.D
Injection Date: 18-OCT-2014 15:49
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Inj Date : 18-OCT-2014 16:12
Sample Info: 1242 ICV @ 1000ppb PCB6-54E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1242.SUB
Sub List #2 : AR1242.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1242	4.587	5.021	6281341	1908205	1050	1050	80.00- 120.00	100.00
	5.004	5.628	7598189	3363905	981	1020	111.72- 167.58	120.96
	5.237	5.811	3398958	1858653	1090	1060	46.10- 69.15	54.11
	5.581	6.011	4515964	1724110	1070	1080	58.44- 87.67	71.89
	6.081	6.931	5309725	2035879	1070	1010	70.48- 105.71	84.53
			Average of Peak Amounts =		1050	1040		

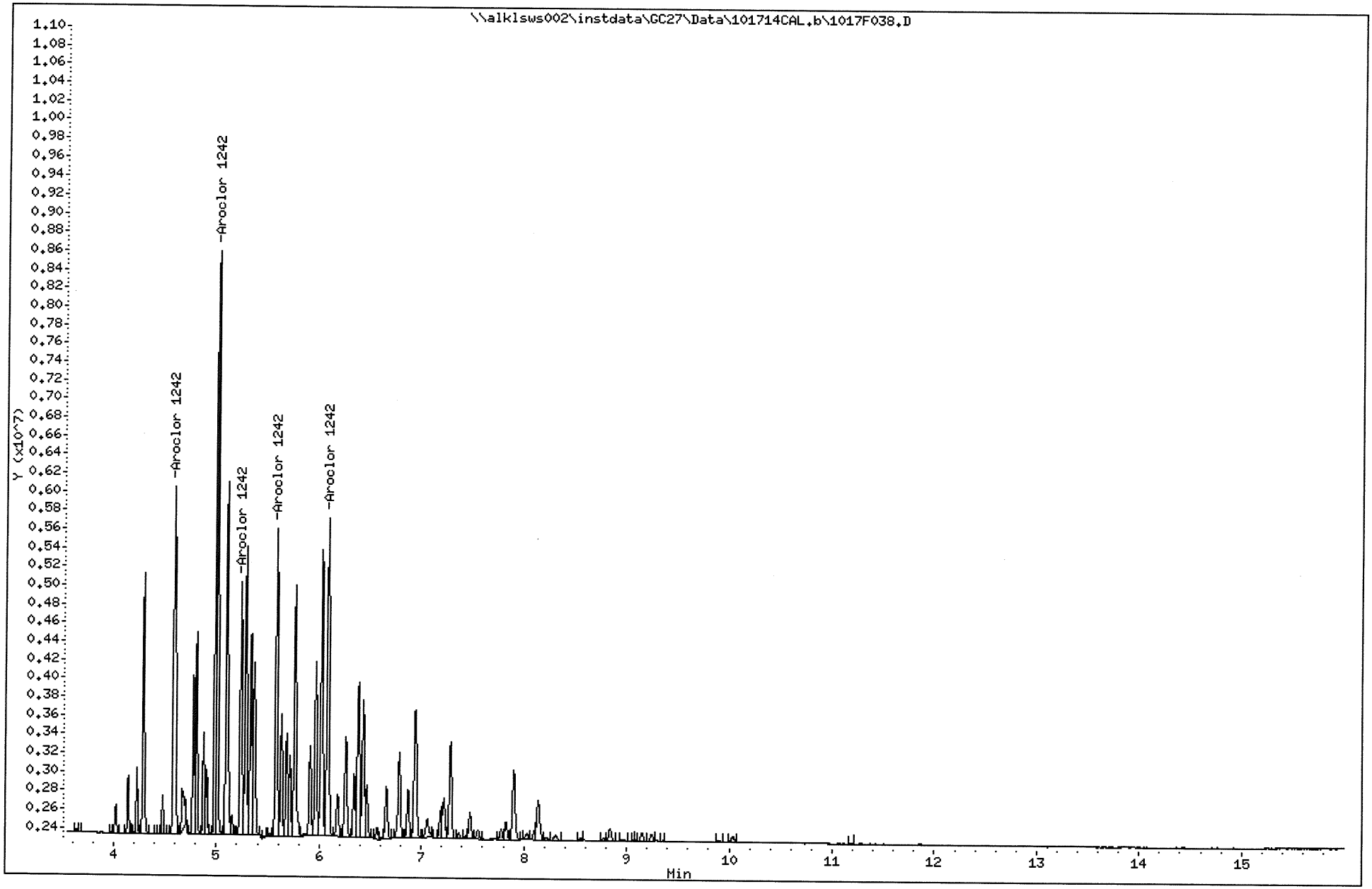
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

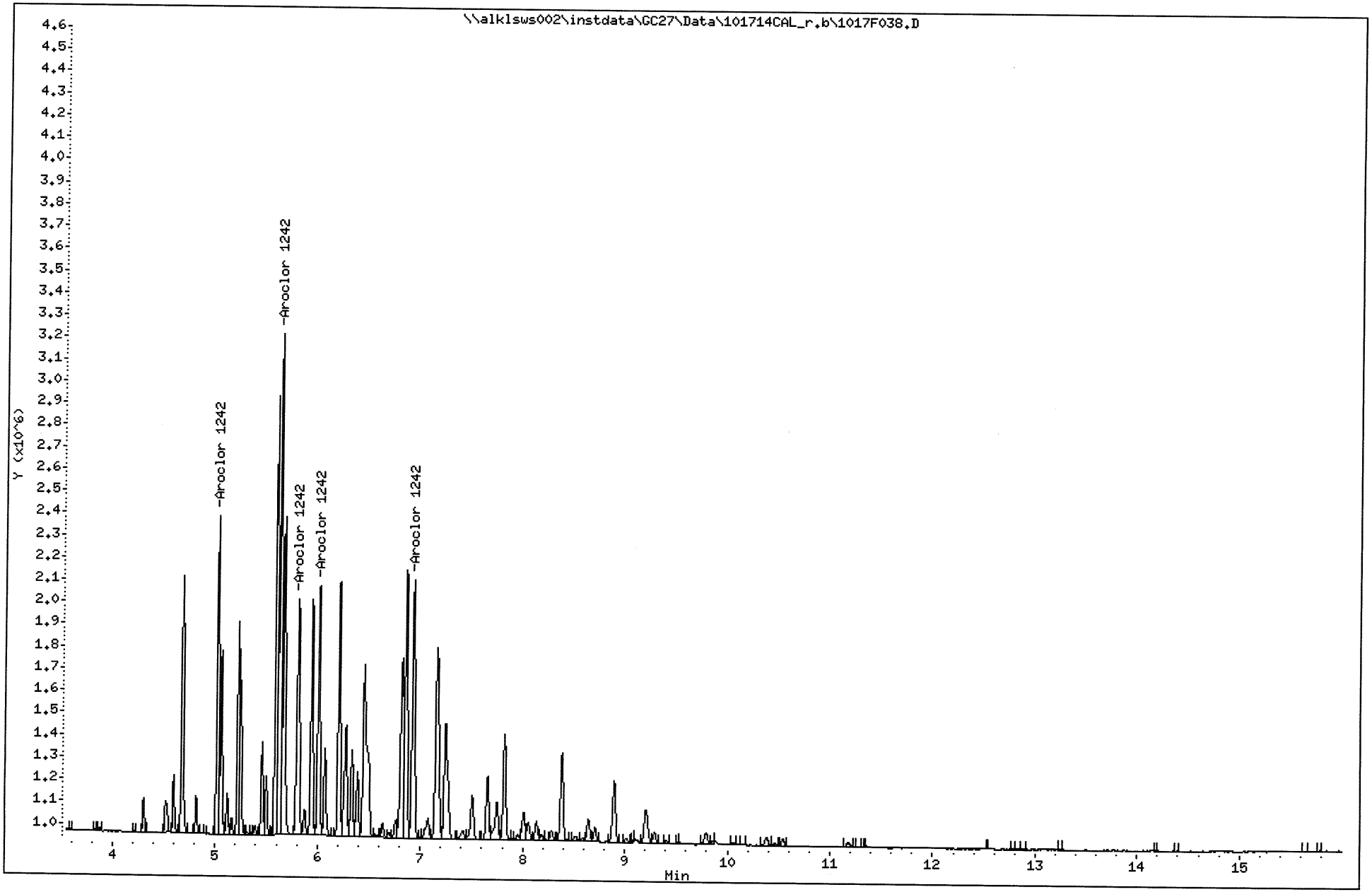


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F038.D
Date : 18-OCT-2014 16:12
Client ID:
Sample Info: 1242 ICV @ 1000ppb PCB6-54E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Inj Date : 18-OCT-2014 16:35
Sample Info: 1248 ICV @ 1000ppb PCB6-54F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 48.SUB
Sub List #2 : 48.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1248	4.988	5.022	4019696	1078205	858	865	80.00- 120.00	100.00
	5.365	5.592	3922894	2098491	900	814	79.90- 119.84	97.59
	5.765	6.008	5631554	2252010	876	757	119.34- 179.01	140.10
	5.961	6.452	4313063	1884387	878	785	91.47- 137.20	107.30
	6.381	7.158	3941613	3259550	851	764	84.97- 127.46	98.06
			Average of Peak Amounts =		873	797		

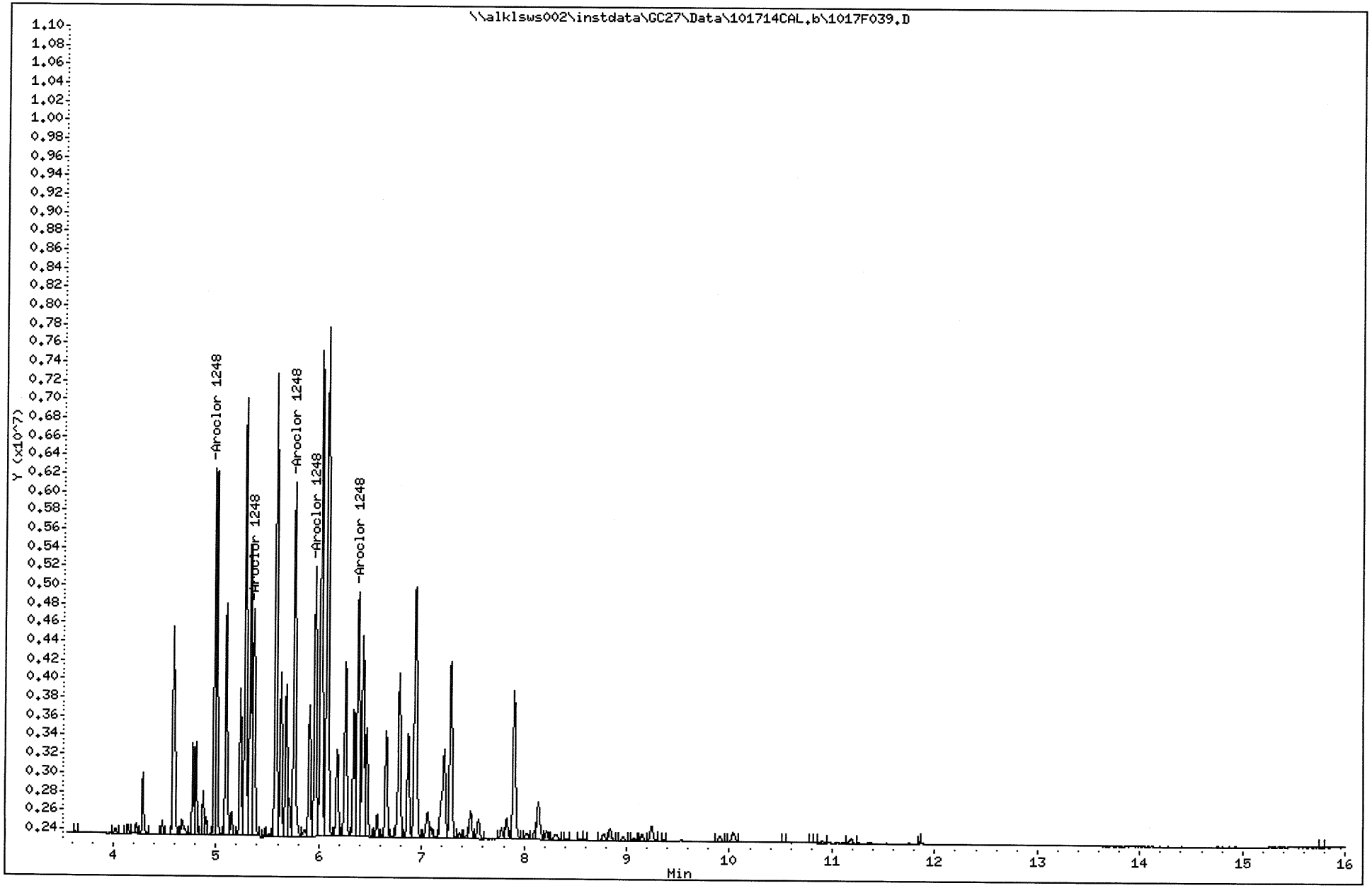
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



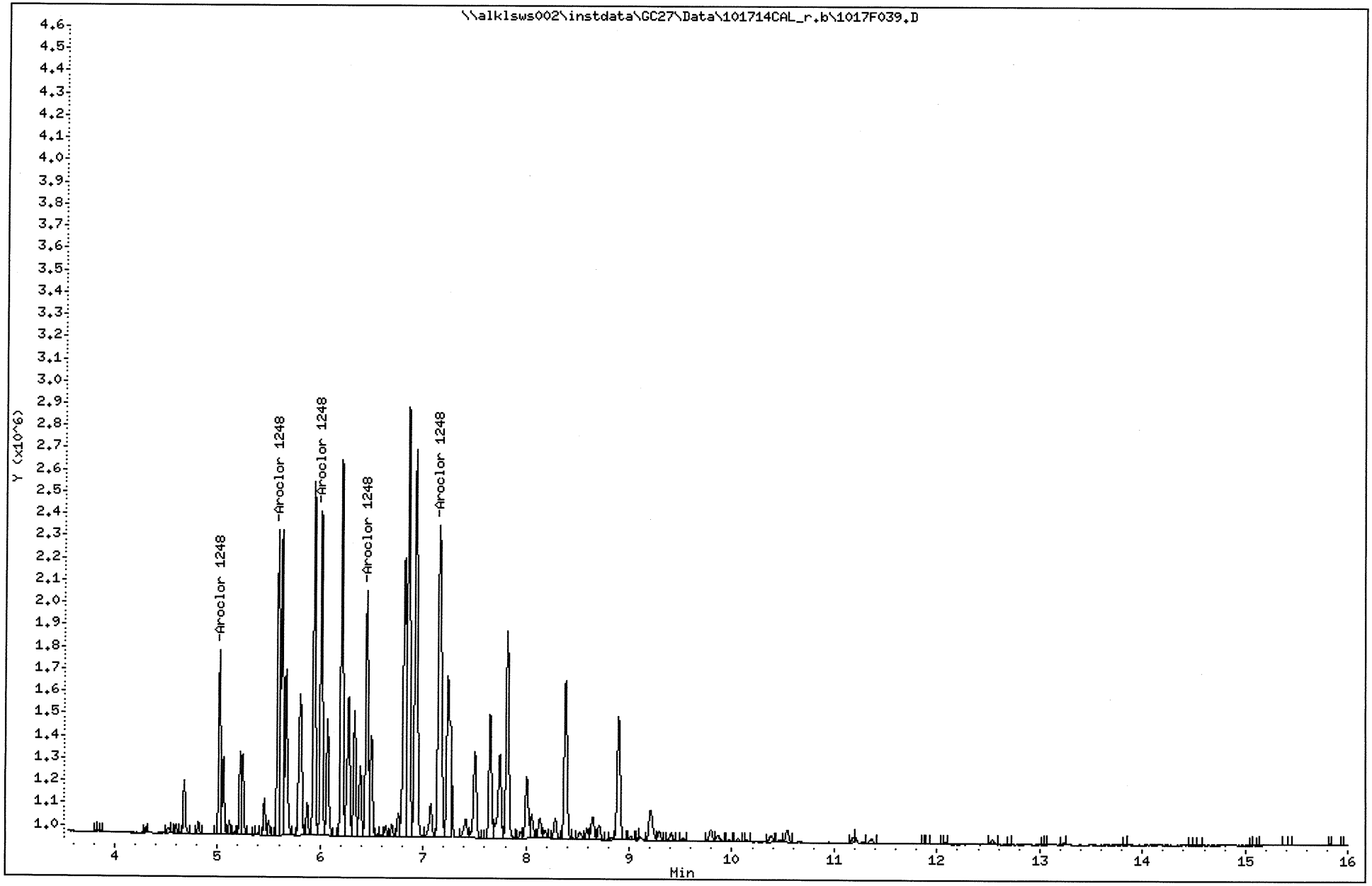
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Date : 18-OCT-2014 16:35
Client ID:
Sample Info: 1248 ICV @ 1000ppb PCB6-54F

Instrument: GC27.i

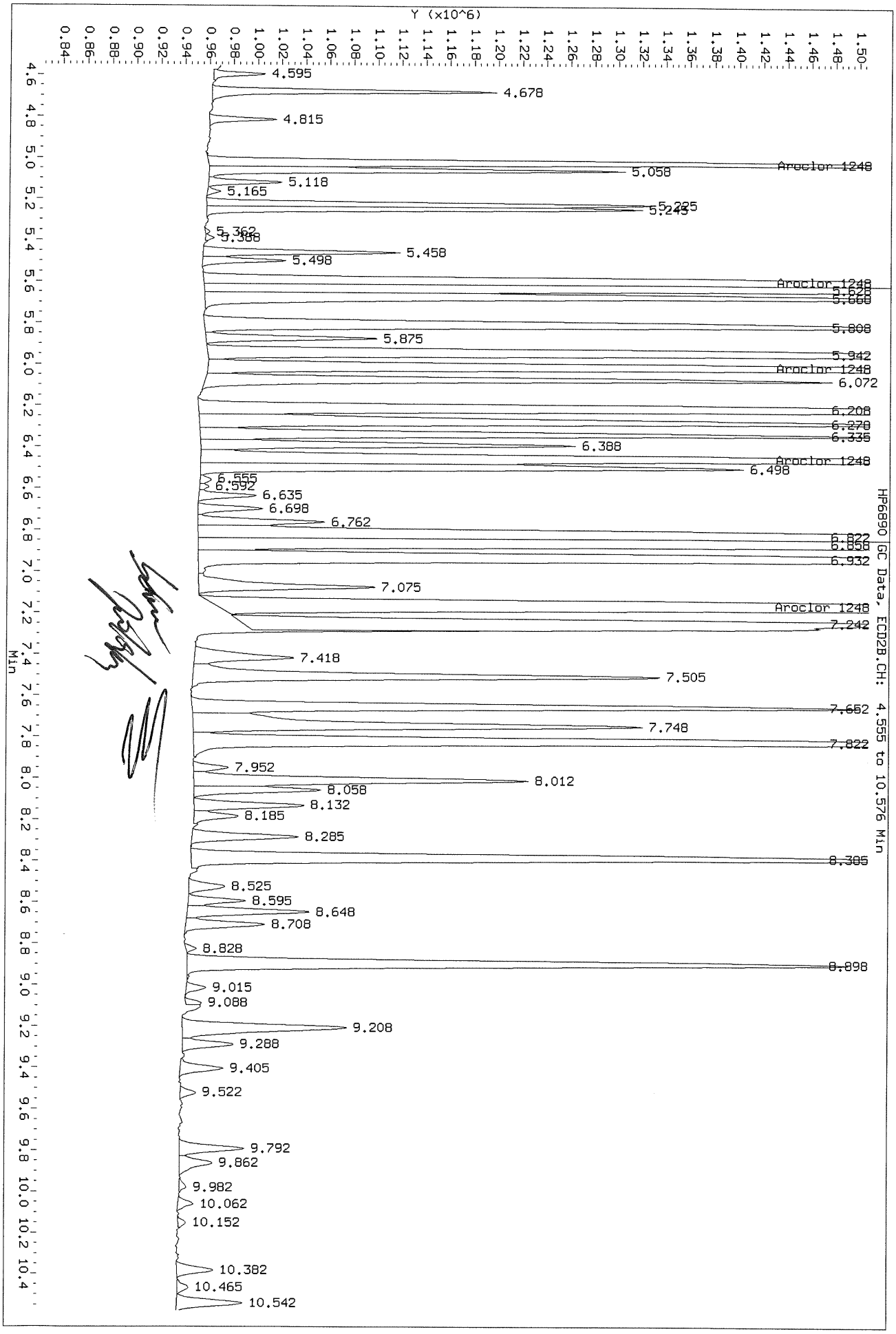
Operator: JMSmith

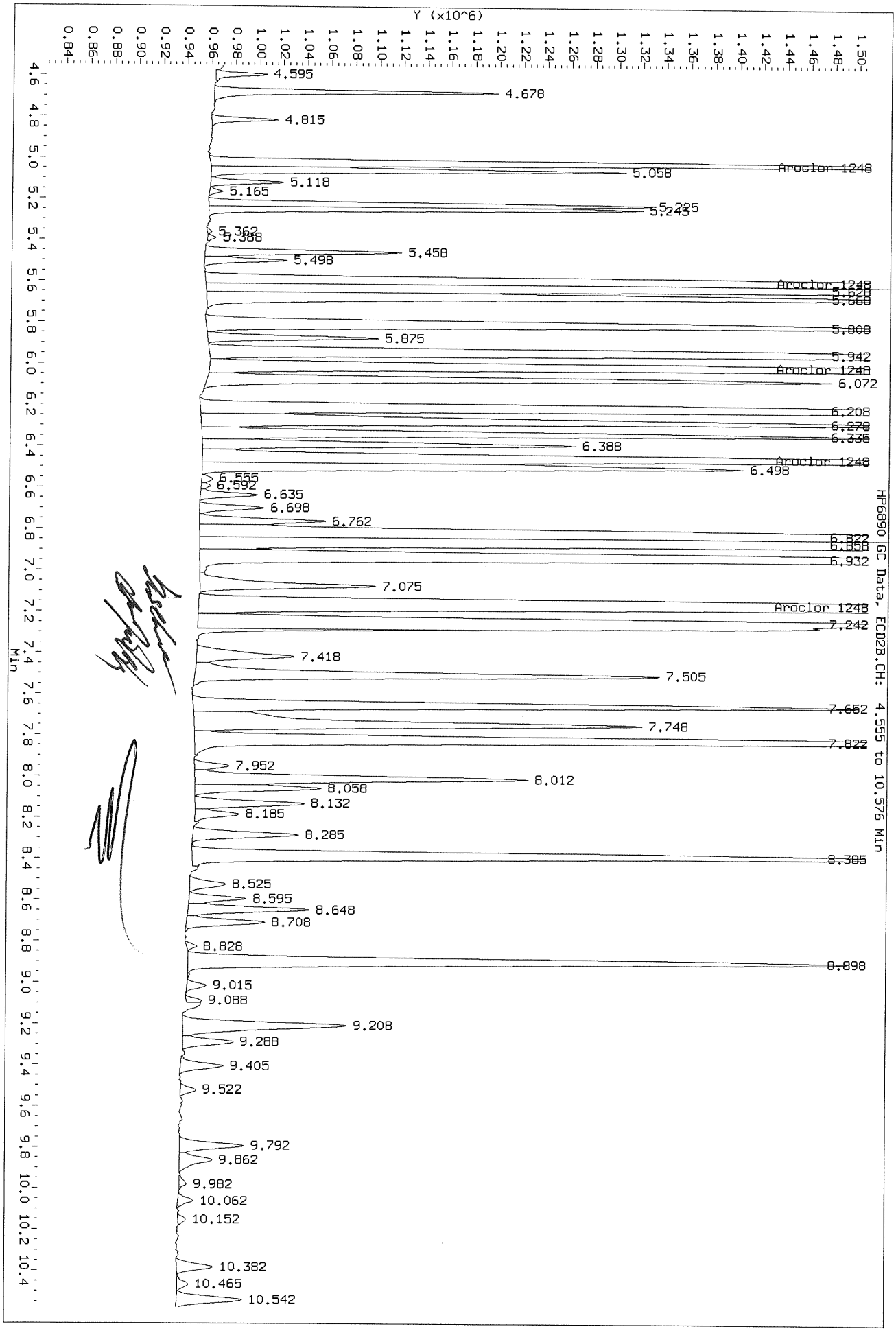
Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:




Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F039.D
Injection Date: 18-OCT-2014 16:35
Instrument: GC27.i
Client Sample ID:
HP6890 GC Data, ECD2B.CH: 4.555 to 10.576 Min
Y (x10^6)
Min
Aroclor 1248
4.595
4.678
4.815
5.058
5.118
5.165
5.225
5.243
5.362
5.388
5.458
5.498
5.628
5.660
5.808
5.875
5.942
6.072
6.208
6.278
6.335
6.388
6.498
6.555
6.592
6.635
6.698
6.762
6.822
6.858
6.932
7.075
7.242
7.418
7.505
7.652
7.748
7.822
7.952
8.012
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8.132
8.185
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8.305
8.525
8.595
8.648
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8.898
9.015
9.088
9.208
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9.405
9.522
9.792
9.862
9.982
10.062
10.152
10.382
10.465
10.542

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Inj Date : 18-OCT-2014 16:58
Sample Info: 1254 ICV @ 1000ppb PCB6-54G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1254.SUB
Sub List #2 : AR1254.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1254	6.342	6.812	4014414	3442398	1030	937	80.00- 120.00	100.00
	6.785	7.172	7355368	5373816	1010	928	152.32- 228.48	183.22
	6.942	7.269	13847882	1888349	946	975	299.68- 449.53	344.95
	7.285	8.135	9552527	2219593	999	980	199.95- 299.92	237.96
	7.902	8.895	6506438	3059778	1030	975	138.55- 207.83	162.08
			Average of Peak Amounts =		1000	959		

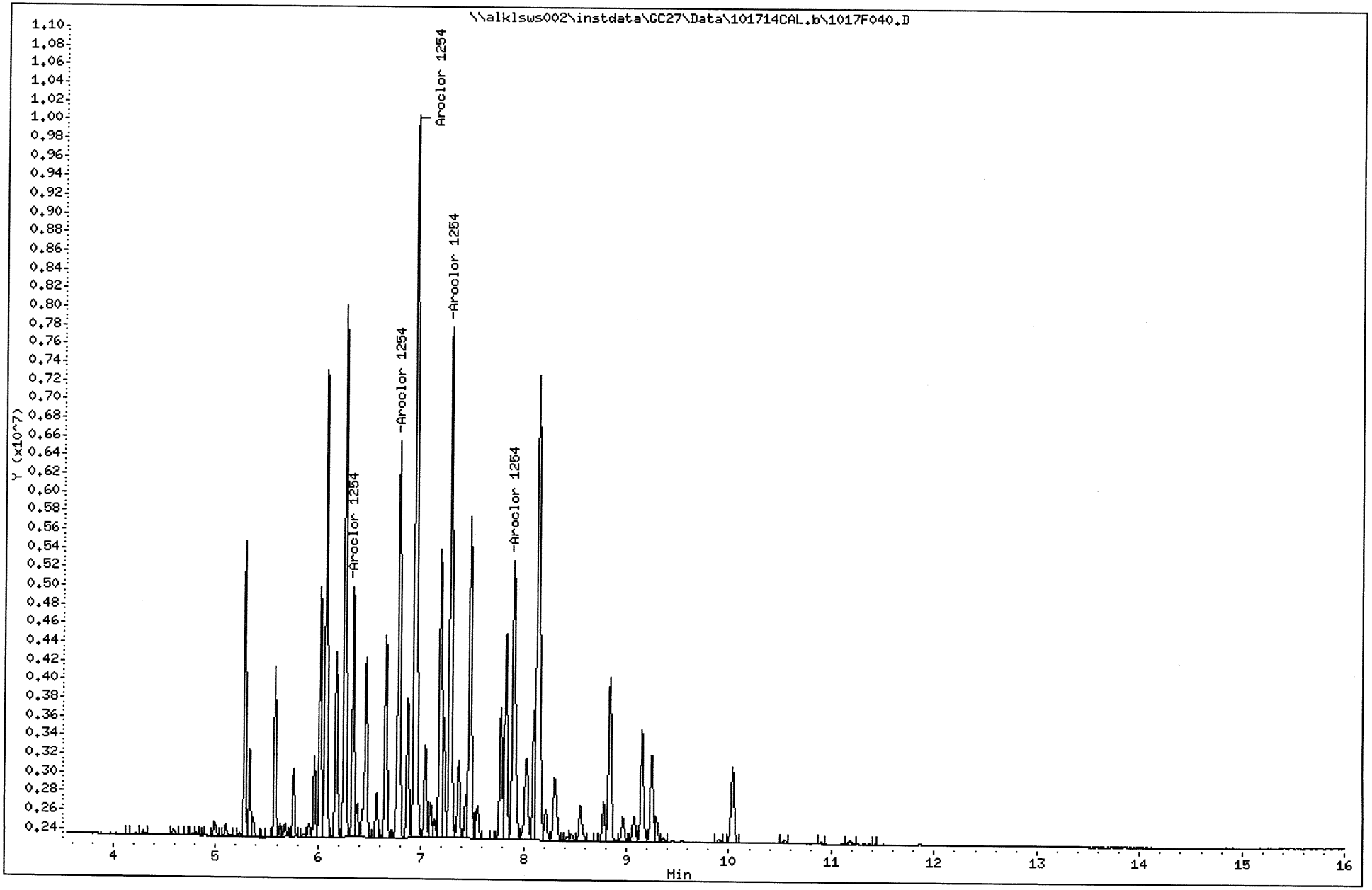
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



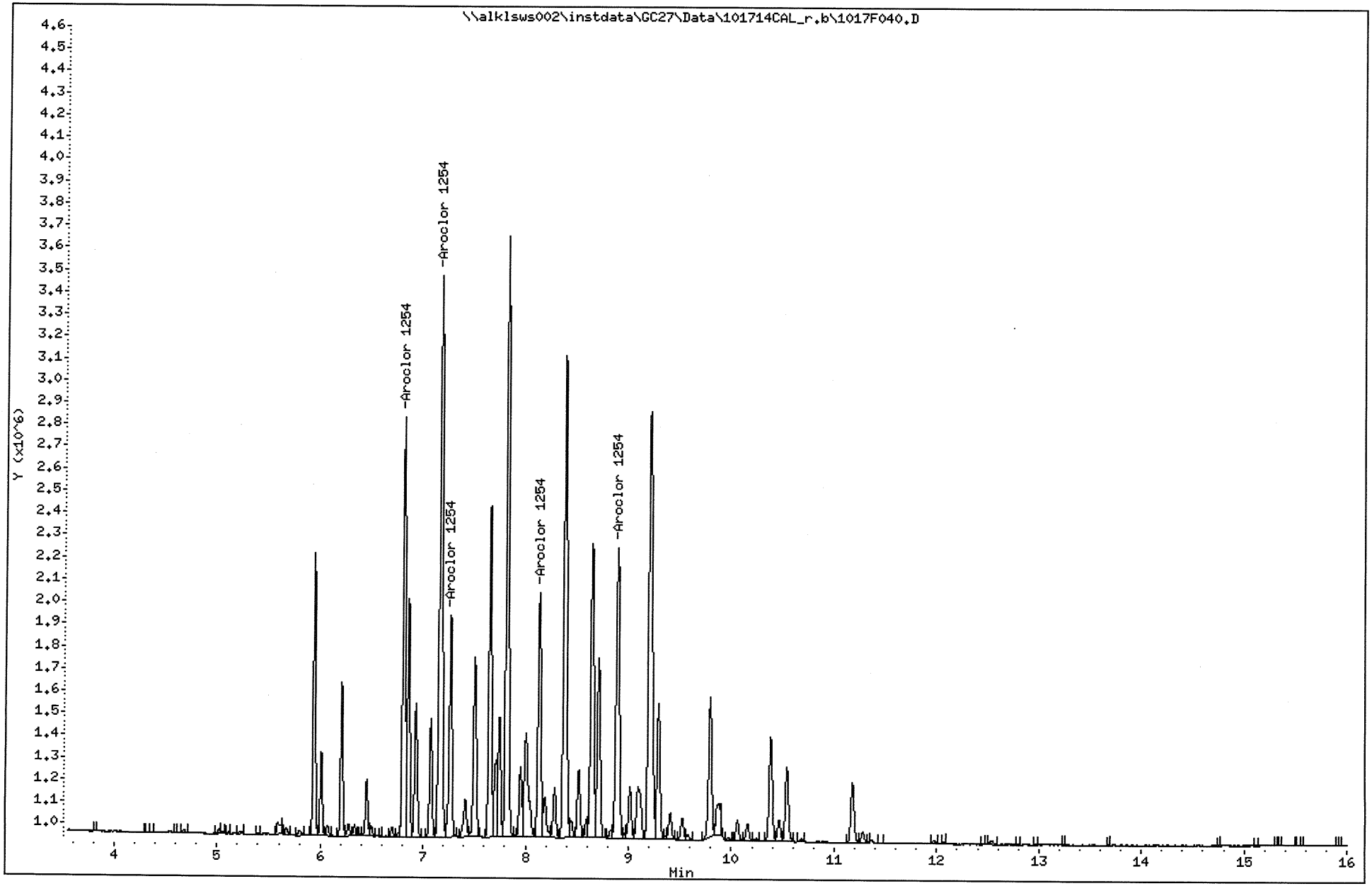
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F040.D
Date : 18-OCT-2014 16:58
Client ID:
Sample Info: 1254 ICV @ 1000ppb PCB6-54G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Inj Date : 18-OCT-2014 17:44
Sample Info: 1262 ICV @ 1000ppb PCB6-54I
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1262.SUB
Sub List #2 : AR1262.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1262	8.216	9.406	14530009	6202842	1080	1070	80.00- 120.00	100.00
	8.776	9.860	12367395	4197996	1050	1040	69.62- 104.43	85.12
	9.243	10.540	25523531	10395030	1110	1080	145.34- 218.01	175.66
	10.040	11.200	19057411	7033735	1100	1050	108.36- 162.54	131.16
	11.183	12.540	9514802	3911946	1140	1070	53.39- 80.08	65.48
			Average of Peak Amounts =		1100	1060		

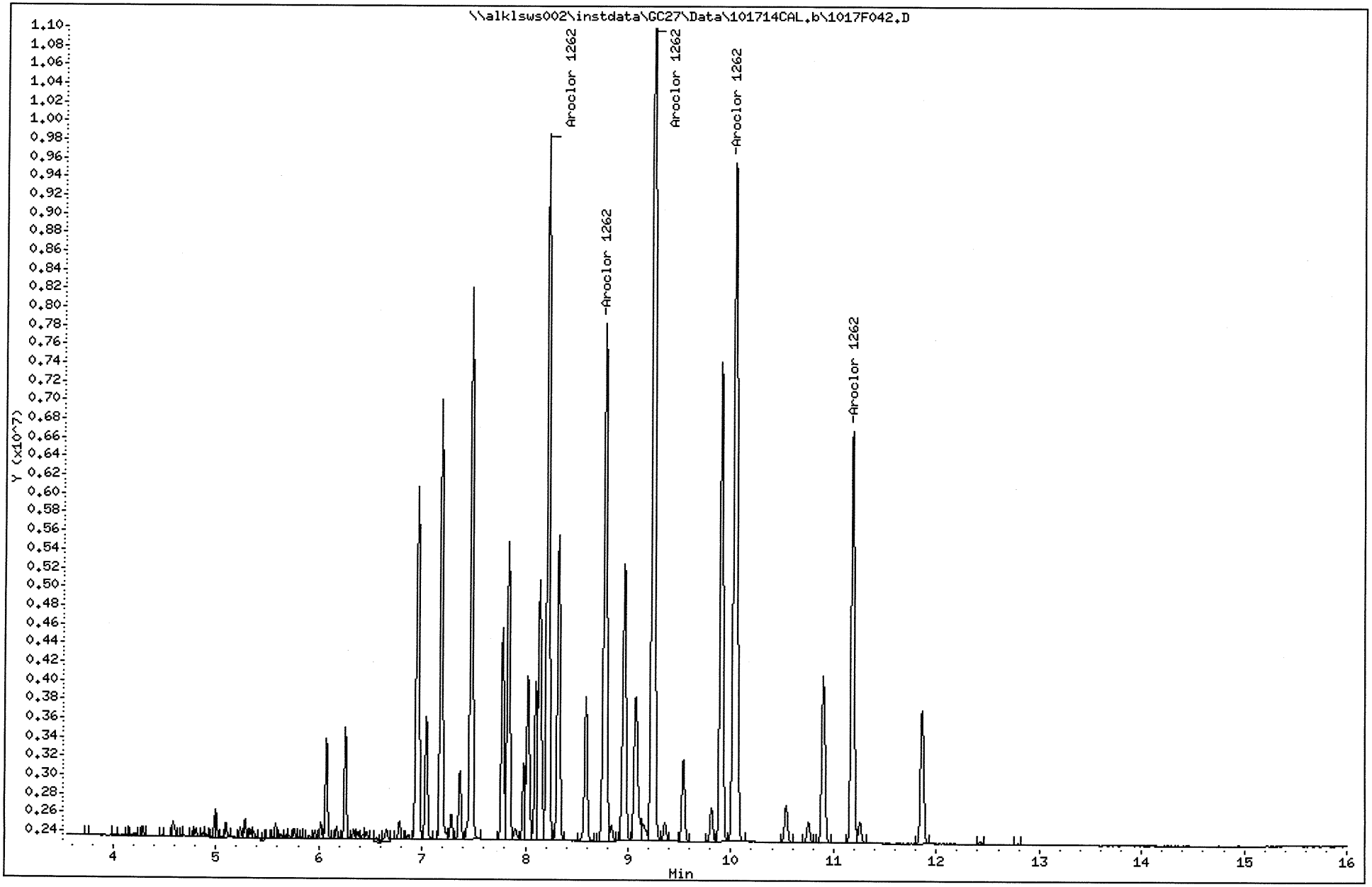
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



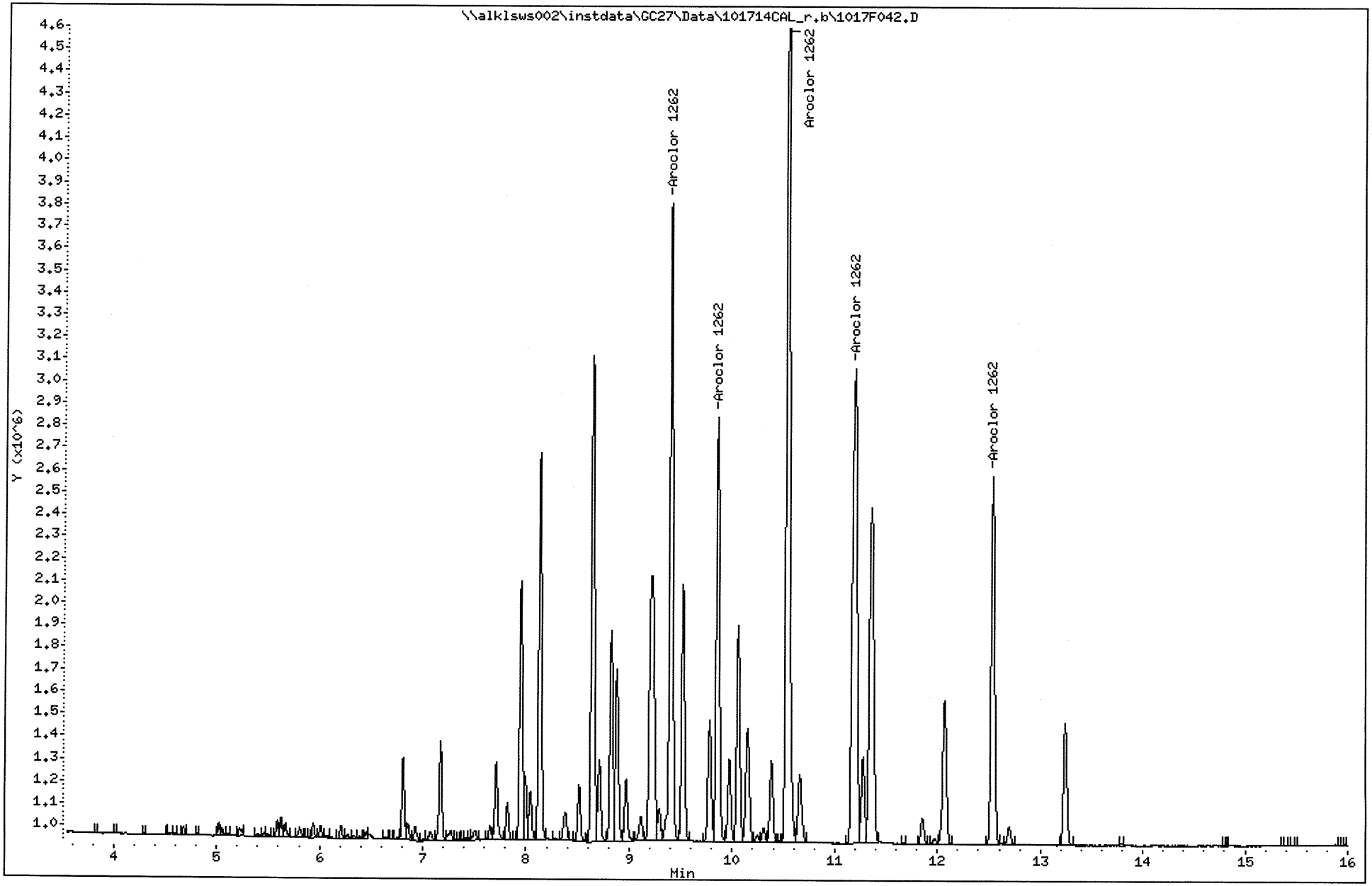
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F042.D
Date : 18-OCT-2014 17:44
Client ID:
Sample Info: 1262 ICV @ 1000ppb PCB6-54I

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Inj Date : 18-OCT-2014 18:07
Sample Info: 1268 ICV @ 1000ppb PCB6-54J
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1268.SUB
Sub List #2 : AR1268.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1268	9.905	11.205	27197504	14187108	921	1100	80.00- 120.00	100.00
	10.038	11.368	26704175	13502679	1050	1240	71.63- 107.45	98.19
	10.535	11.855	18530238	9442550	842	989	62.05- 93.07	68.13
	11.861	13.241	50329249	26619865	803	936	179.85- 269.77	185.05
			Average of Peak Amounts =		904	1070		

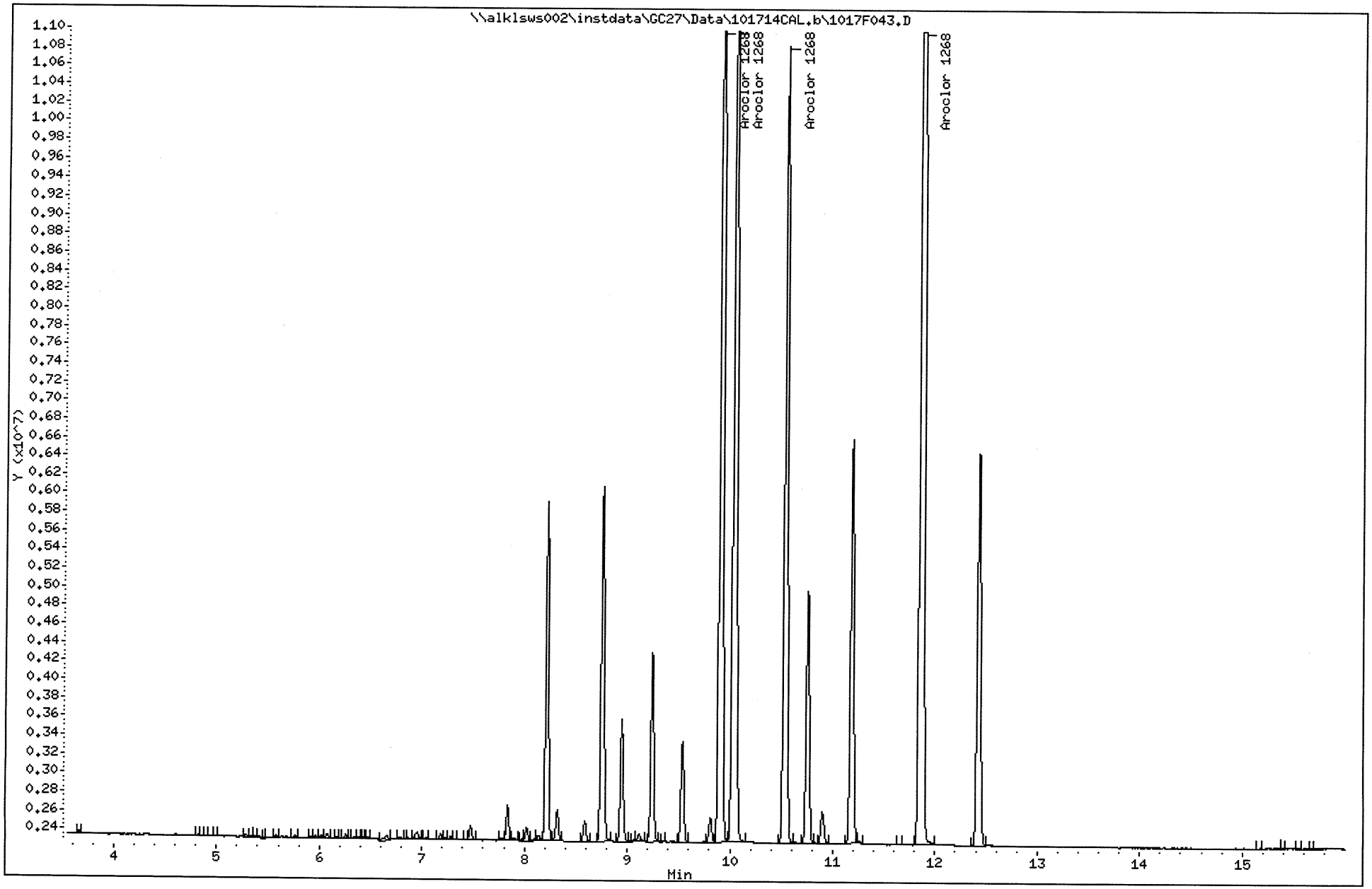
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

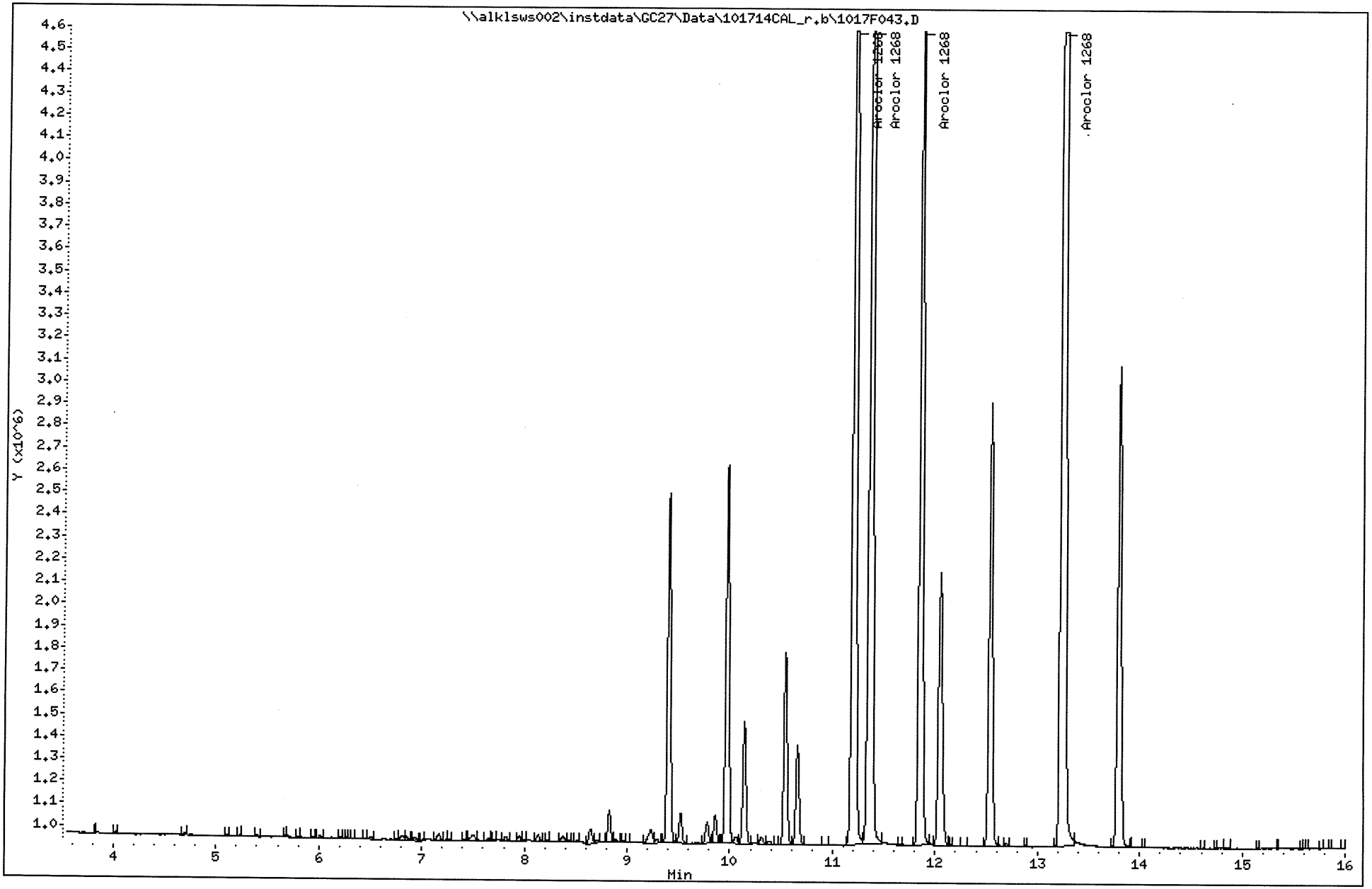


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F043.D
Date : 18-OCT-2014 18:07
Client ID:
Sample Info: 1268 ICV @ 1000ppb PCB6-54J

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Inj Date : 18-OCT-2014 23:21
Sample Info: 1660 @ 5.0-50ppb PCB6-57G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	934747	409638	5.28	5.21		100.00
Aroclor 1016	4.289	4.679	199765	101704	55.7	55.3	80.00- 120.00	100.00
	4.805	5.022	158776	133481	53.0	54.8	63.59- 95.38	79.48
	5.005	5.669	553523	170049	56.0	56.7	221.67- 332.50	277.09
	5.285	6.009	286332	125905	57.7	57.4	114.67- 172.00	143.33
	5.582	6.209	286977	124992	55.4	58.0	114.93- 172.39	143.66
		Average of Peak Amounts =			55.6	56.4		
Aroclor 1260	7.185	7.952	578063	126157	58.7	57.2	80.00- 120.00	100.00
	8.219	9.405	446218	230297	55.0	60.9	61.75- 92.63	77.19
	8.779	9.859	460133	223151	55.9	61.8	63.68- 95.52	79.60
	9.245	10.542	1033788	516923	55.0	59.9	143.07- 214.60	178.84
	10.042	11.182	784589	340432	55.3	61.0	108.58- 162.87	135.73
		Average of Peak Amounts =			56.0	60.2		
Decachlorobiphenyl	12.429	13.795	871565	488706	5.51	5.93		100.00

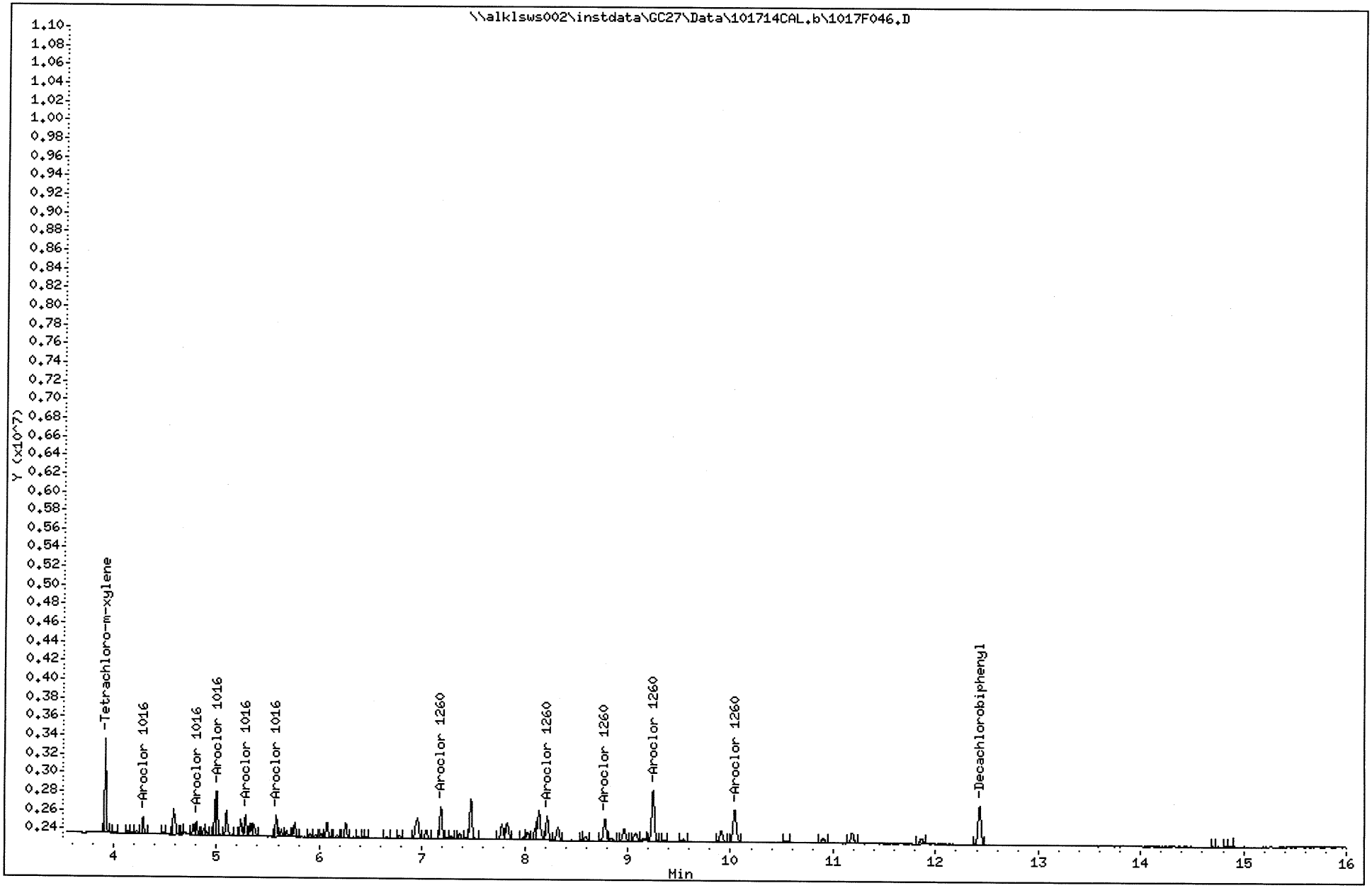
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



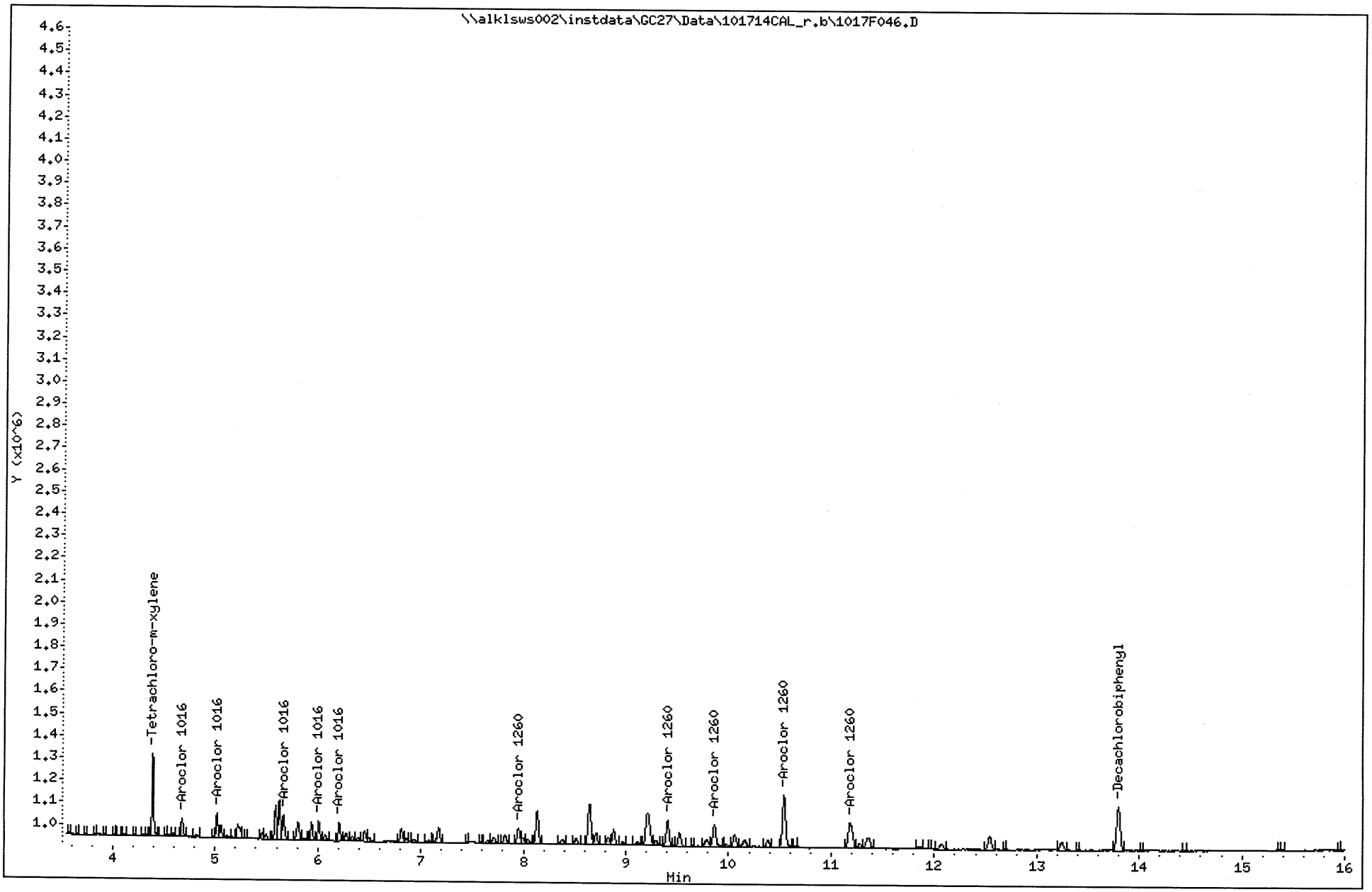
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F046.D
Date : 18-OCT-2014 23:21
Client ID:
Sample Info: 1660 @ 5.0-50ppb PCB6-57G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Inj Date : 18-OCT-2014 23:45
Sample Info: 1660 @ 50-500ppb PCB6-56G
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.924	4.394	9383877	3800913	53.0	48.3		100.00
Aroclor 1016	4.290	4.677	2031267	905433	566	493	80.00- 120.00	100.00
	4.807	5.021	1754438	1190398	586	489	69.10- 103.65	86.37
	5.004	5.671	5508690	1486769	557	496	216.96- 325.43	271.19
	5.284	6.011	2826121	1080160	570	492	111.30- 166.96	139.13
	5.584	6.211	2950644	1062776	570	493	116.21- 174.31	145.26
		Average of Peak Amounts =			570	493		
Aroclor 1260	7.187	7.954	5542690	1116298	563	506	80.00- 120.00	100.00
	8.217	9.407	4667867	1870060	575	495	67.37- 101.06	84.22
	8.777	9.861	4765011	1770679	579	491	68.78- 103.16	85.97
	9.247	10.541	10476488	4190213	557	485	151.21- 226.82	189.01
	10.040	11.184	8092606	2745084	570	491	116.80- 175.21	146.01
		Average of Peak Amounts =			569	494		
Decachlorobiphenyl	12.427	13.797	9016452	4051747	57.0	49.2		100.00

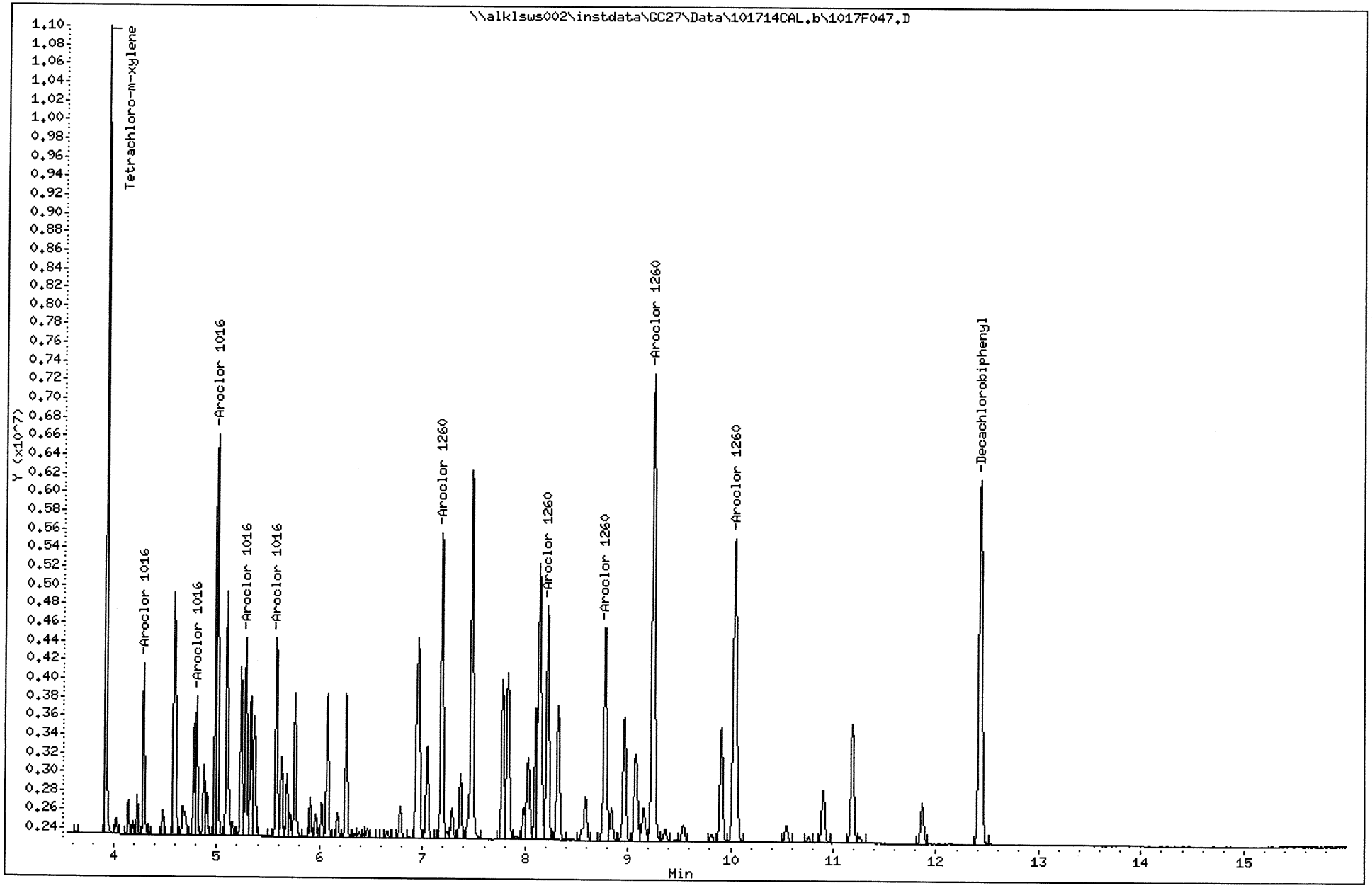
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



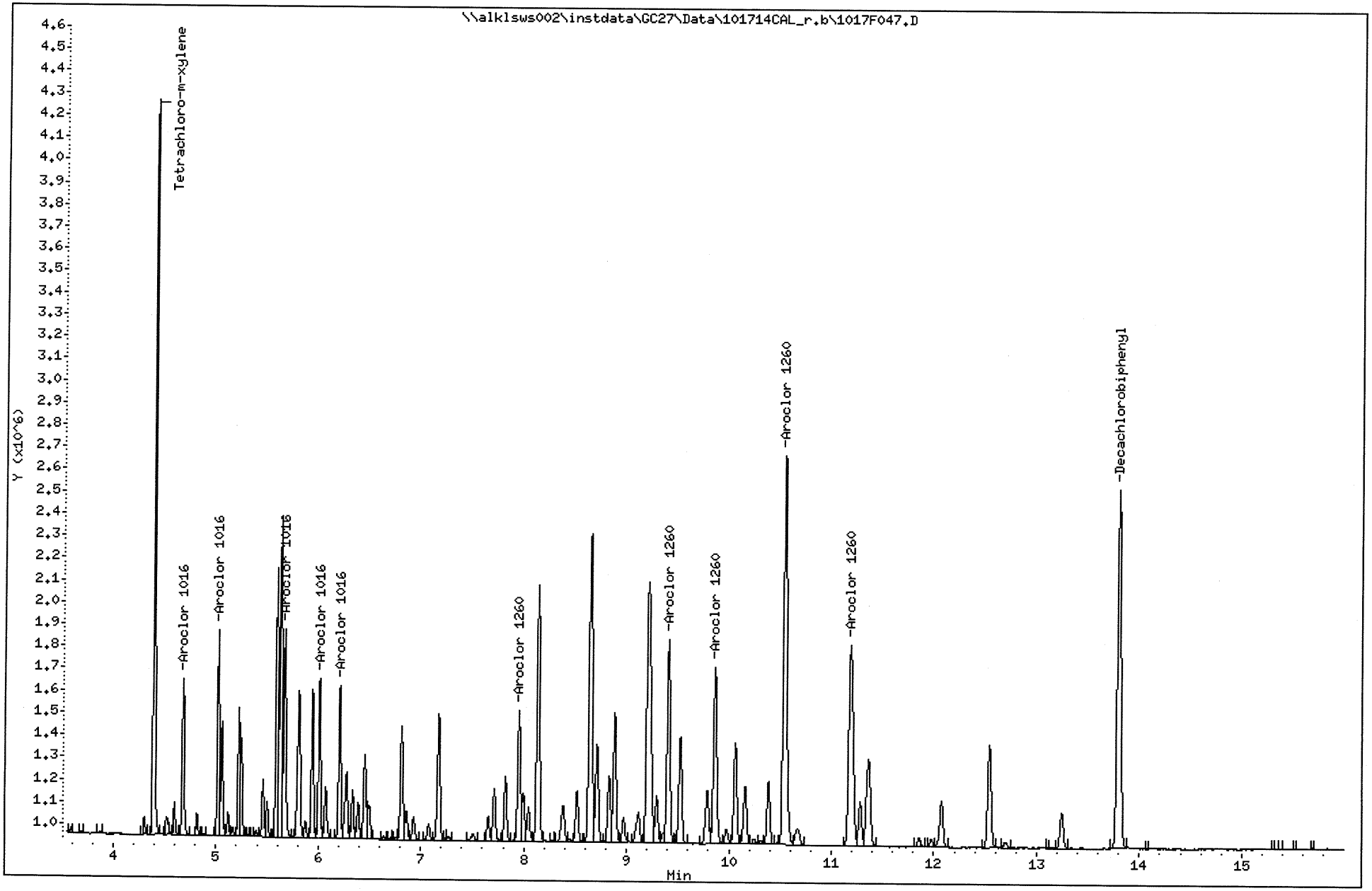
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F047.D
Date : 18-OCT-2014 23:45
Client ID:
Sample Info: 1660 @ 50-500ppb PCB6-56G

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Inj Date : 19-OCT-2014 00:08
Sample Info: 1660 @ 100-1000ppb PCB6-57F
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

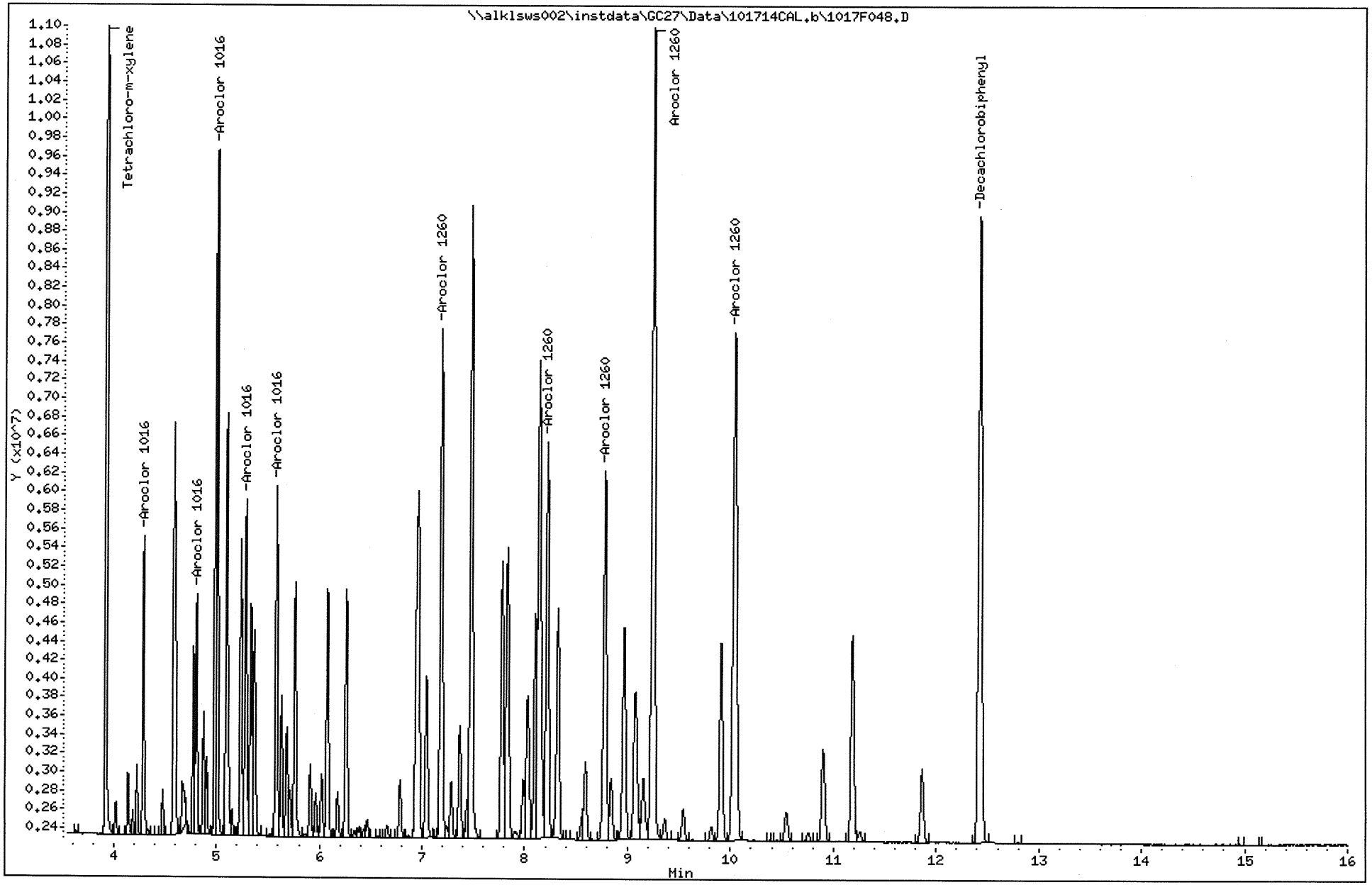
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	17224113	8015526	97.3	102		100.00
Aroclor 1016	4.290	4.676	3531945	1771549	984	964	80.00- 120.00	100.00
	4.806	5.020	3090659	2305780	1030	947	70.00- 105.01	87.51
	5.006	5.670	9831024	2893233	994	965	222.68- 334.02	278.35
	5.283	6.010	4879150	2105643	983	959	110.51- 165.77	138.14
	5.583	6.210	5117284	2084971	989	967	115.91- 173.86	144.89
		Average of Peak Amounts =			996	960		
Aroclor 1260	7.186	7.953	9566897	2201032	971	998	80.00- 120.00	100.00
	8.220	9.406	8027354	3690438	989	976	67.13- 100.69	83.91
	8.780	9.860	8188000	3472256	995	962	68.47- 102.70	85.59
	9.243	10.540	18221268	8375098	969	970	152.37- 228.55	190.46
	10.040	11.180	13958333	5413934	984	969	116.72- 175.08	145.90
		Average of Peak Amounts =			982	975		
Decachlorobiphenyl	12.426	13.796	15473034	7952838	97.8	96.6		100.00

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Column phase: DB-35MS

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32



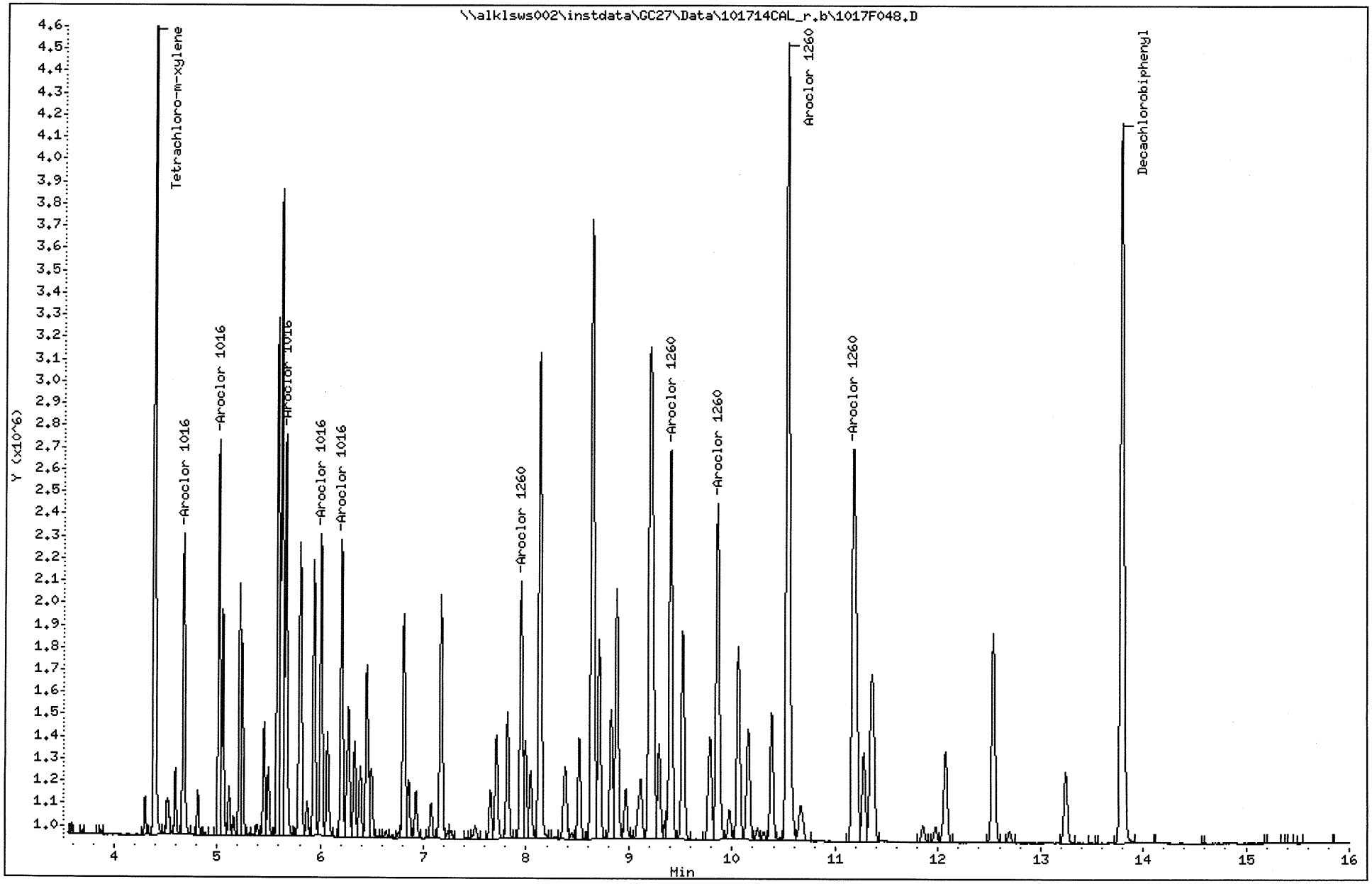
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F048.D
Date : 19-OCT-2014 00:08
Client ID:
Sample Info: 1660 @ 100-1000ppb PCB6-57F

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Inj Date : 19-OCT-2014 00:31
Sample Info: 1660 @ 200-2000ppb PCB6-57E
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.392	32740152	15590873	185	198		100.00
Aroclor 1016	4.289	4.679	6326032	3228122	1760	1760	80.00- 120.00	100.00
	4.806	5.022	5287351	4241832	1760	1740	66.86- 100.30	83.58
	5.006	5.669	16130115	5249767	1630	1750	203.98- 305.98	254.98
	5.282	6.012	8657143	3866508	1740	1760	109.48- 164.22	136.85
	5.582	6.209	9109265	3853112	1760	1790	115.20- 172.80	144.00
			Average of Peak Amounts =		1730	1760		
Aroclor 1260	7.186	7.956	16656806	4133221	1690	1870	80.00- 120.00	100.00
	8.219	9.409	13984667	6987982	1720	1850	67.17- 100.75	83.96
	8.779	9.862	14253204	6583592	1730	1820	68.46- 102.68	85.57
	9.246	10.542	32554329	16175009	1730	1870	156.35- 234.53	195.44
	10.039	11.186	24778548	10298435	1750	1840	119.01- 178.51	148.76
			Average of Peak Amounts =		1720	1850		
Decachlorobiphenyl	12.429	13.796	27432047	14971430	173	182		100.00

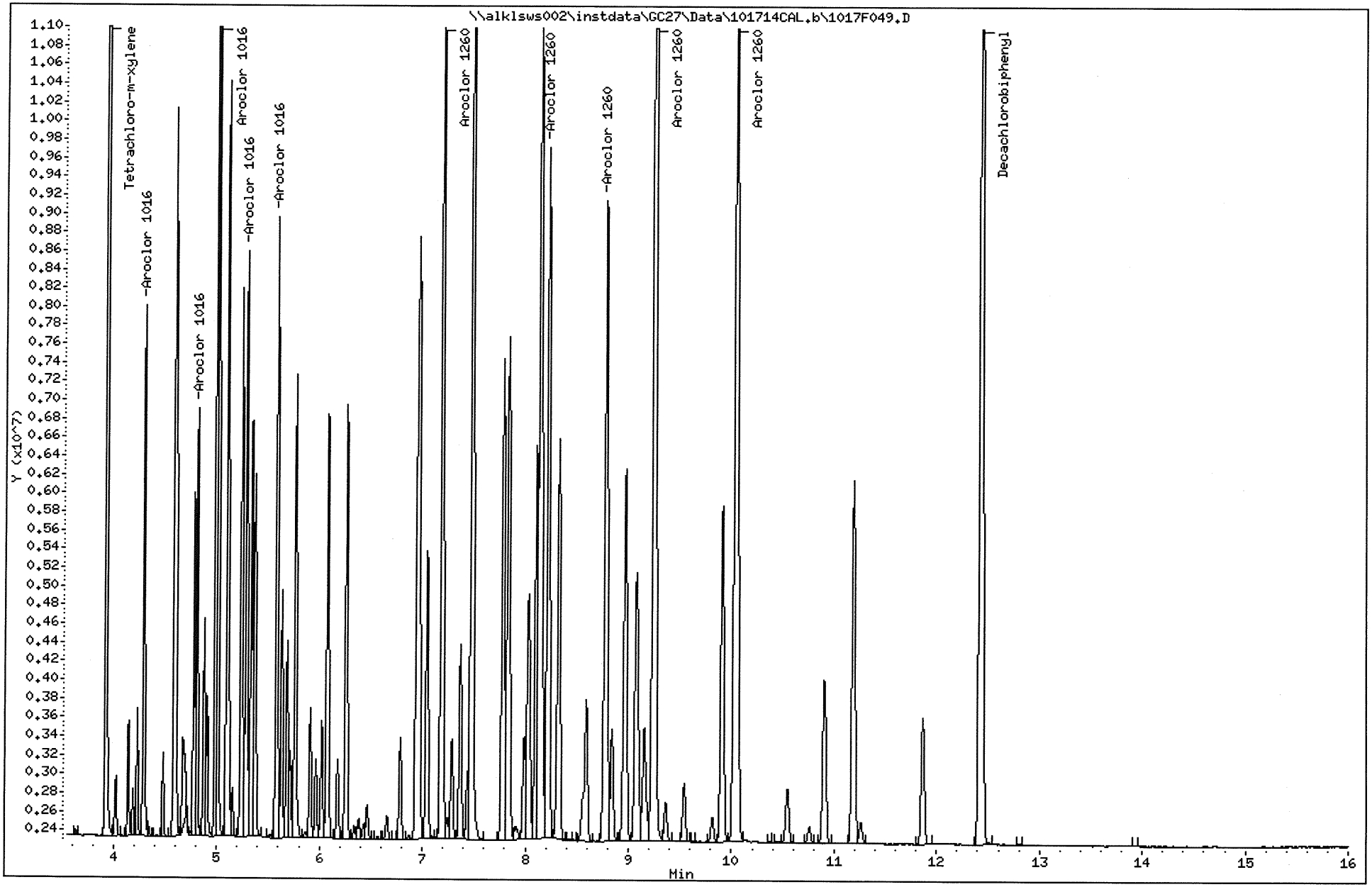
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32

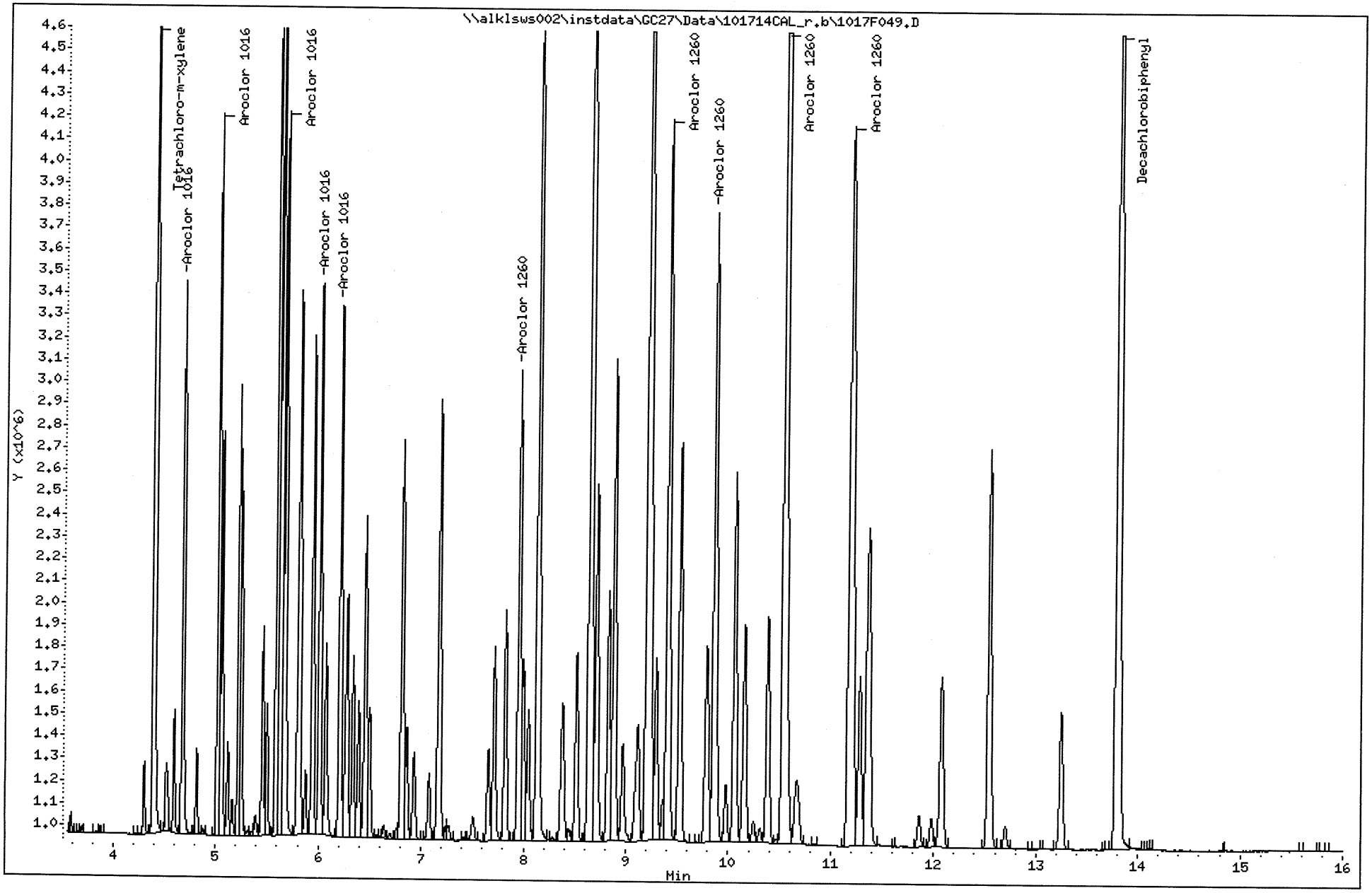


Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F049.D
Date : 19-OCT-2014 00:31
Client ID:
Sample Info: 1660 @ 200-2000ppb PCB6-57E

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-XLB



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Report Date: 19-Oct-2014 04:54

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Inj Date : 19-OCT-2014 00:54
Sample Info: 1660 @ 500-5000ppb PCB6-57D
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.926	4.393	81969700	36530429	463	464		100.00
Aroclor 1016	4.289	4.680	14442987	6816820	4020	3710	80.00- 120.00	100.00
	4.806	5.020	12401352	9041678	4140	3710	68.69- 103.04	85.86
	5.006	5.670	46063701	11359154	4660	3790	255.15- 382.72	318.93
	5.286	6.010	20362239	8229474	4100	3750	112.79- 169.18	140.98
	5.583	6.210	21868571	8277943	4220	3840	121.13- 181.70	151.41
		Average of Peak Amounts =			4230	3760		
Aroclor 1260	7.189	7.953	40948294	8802846	4160	3990	80.00- 120.00	100.00
	8.219	9.410	34496705	15468422	4250	4090	67.40- 101.09	84.24
	8.783	9.863	35087342	14600164	4260	4050	68.55- 102.82	85.69
	9.246	10.543	84237824	37284721	4480	4320	164.57- 246.86	205.72
	10.043	11.183	62884960	23145647	4430	4140	122.86- 184.29	153.57
		Average of Peak Amounts =			4320	4120		
Decachlorobiphenyl	12.429	13.796	68481592	33282659	433	404		100.00

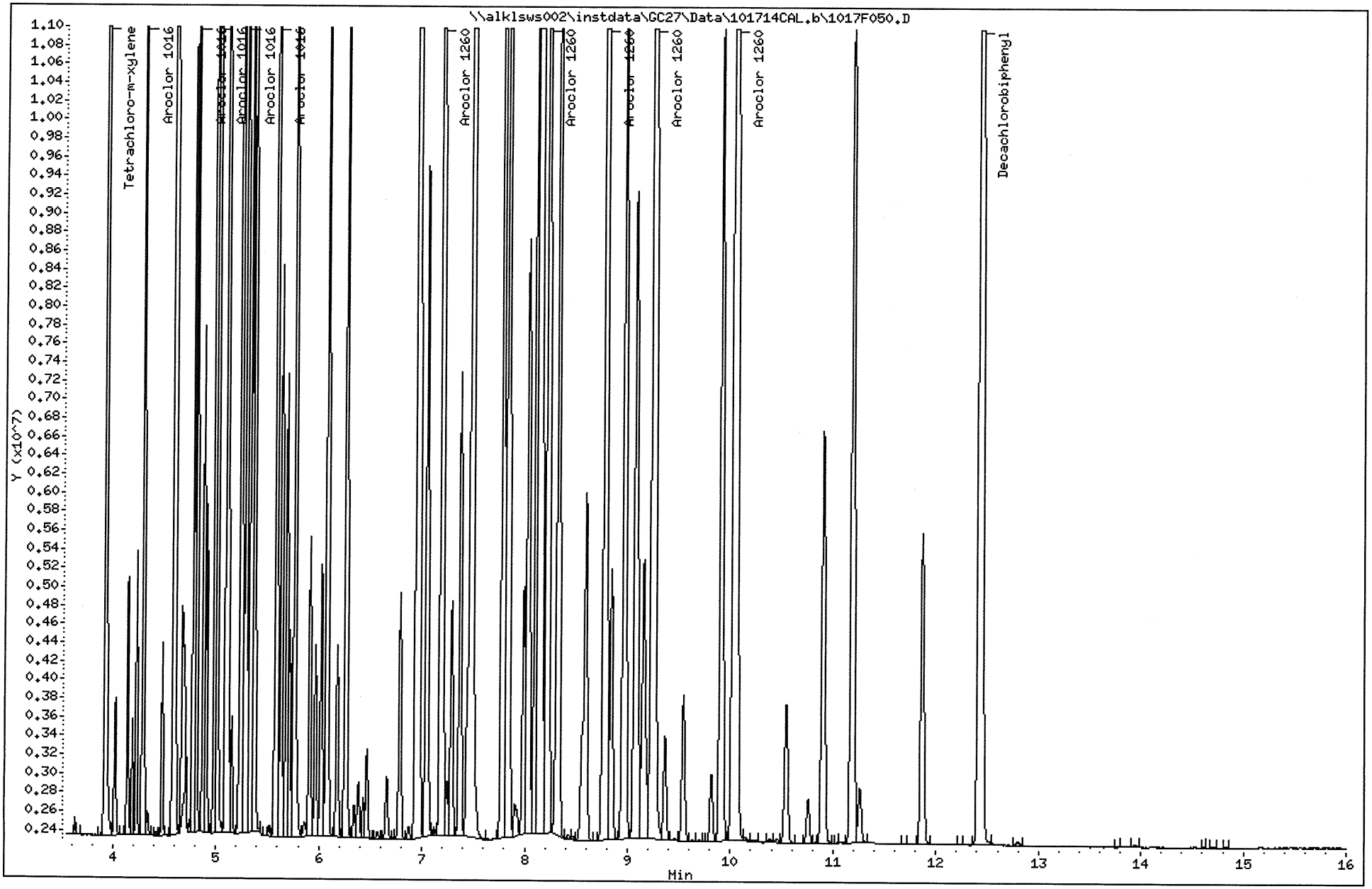
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



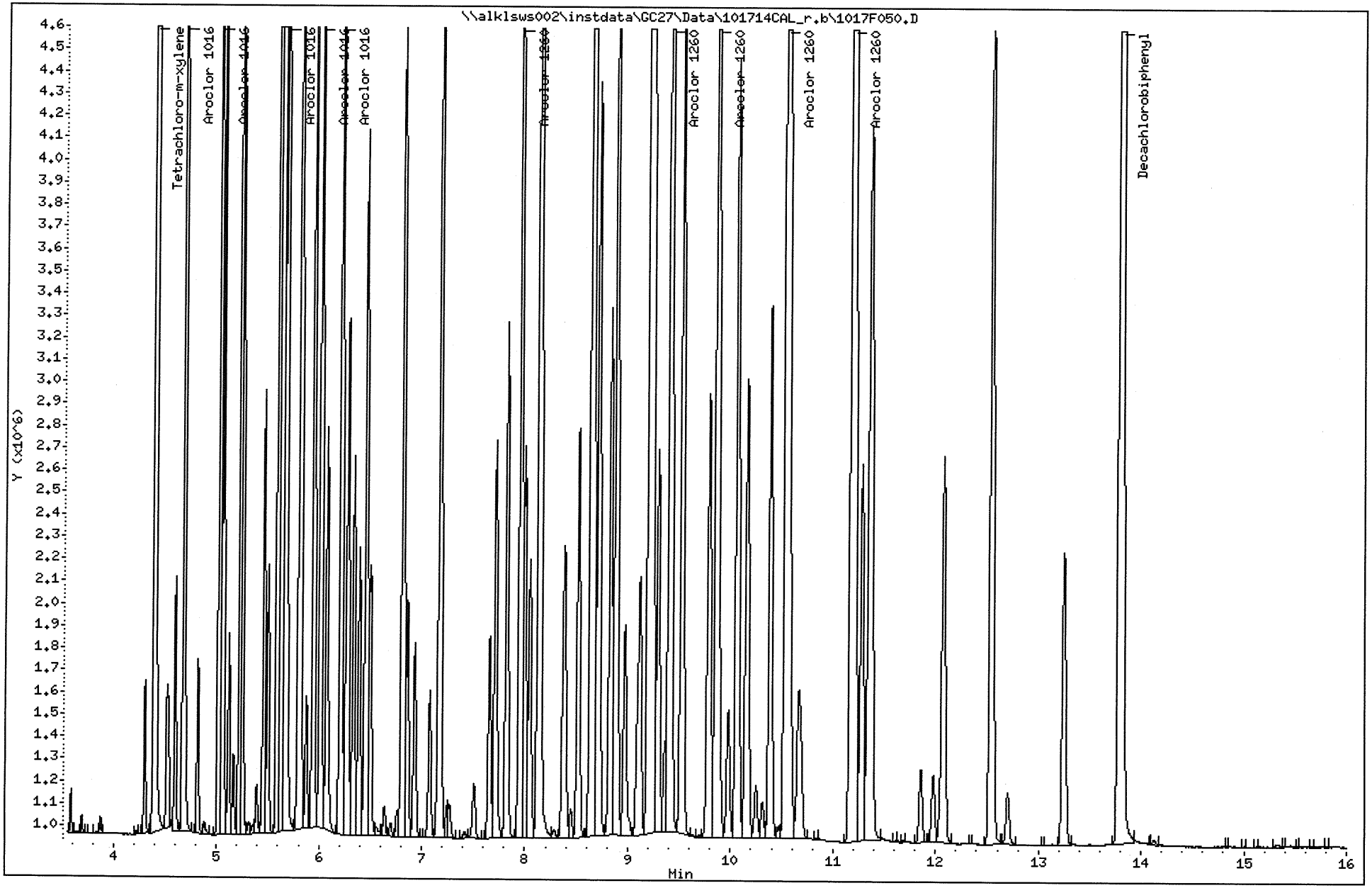
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F050.D
Date : 19-OCT-2014 00:54
Client ID:
Sample Info: 1660 @ 500-5000ppb PCB6-57D

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Inj Date : 19-OCT-2014 01:41
Sample Info: 1660 @ 2.5-25ppb PCB6-570
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : 1660.SUB
Sub List #2 : 1660.SUB
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Tetrachloro-m-xylene	3.925	4.392	469101	207035	2.65	2.63		100.00
Aroclor 1016	4.288	4.678	97312	49000	27.1	26.7	80.00- 120.00	100.00
	4.805	5.022	76938	67395	25.7	27.7	63.25- 94.88	79.06
	5.005	5.668	253744	77589	25.7	25.9	208.60- 312.90	260.75
	5.285	6.012	127717	56444	25.7	25.7	105.00- 157.49	131.24
	5.582	6.208	134302	53577	25.9	24.9	110.41- 165.61	138.01
		Average of Peak Amounts =			26.0	26.2		
Aroclor 1260	7.185	7.955	259301	61285	26.3	27.8	80.00- 120.00	100.00
	8.218	9.405	212599	101372	26.2	26.8	65.59- 98.39	81.99
	8.778	9.862	208028	99111	25.3	27.5	64.18- 96.27	80.23
	9.245	10.542	495438	229211	26.4	26.5	152.85- 229.28	191.07
	10.038	11.182	357964	150522	25.2	26.9	110.44- 165.66	138.05
		Average of Peak Amounts =			25.9	27.1		
Decachlorobiphenyl	12.428	13.795	413268	235935	2.61	2.87		100.00

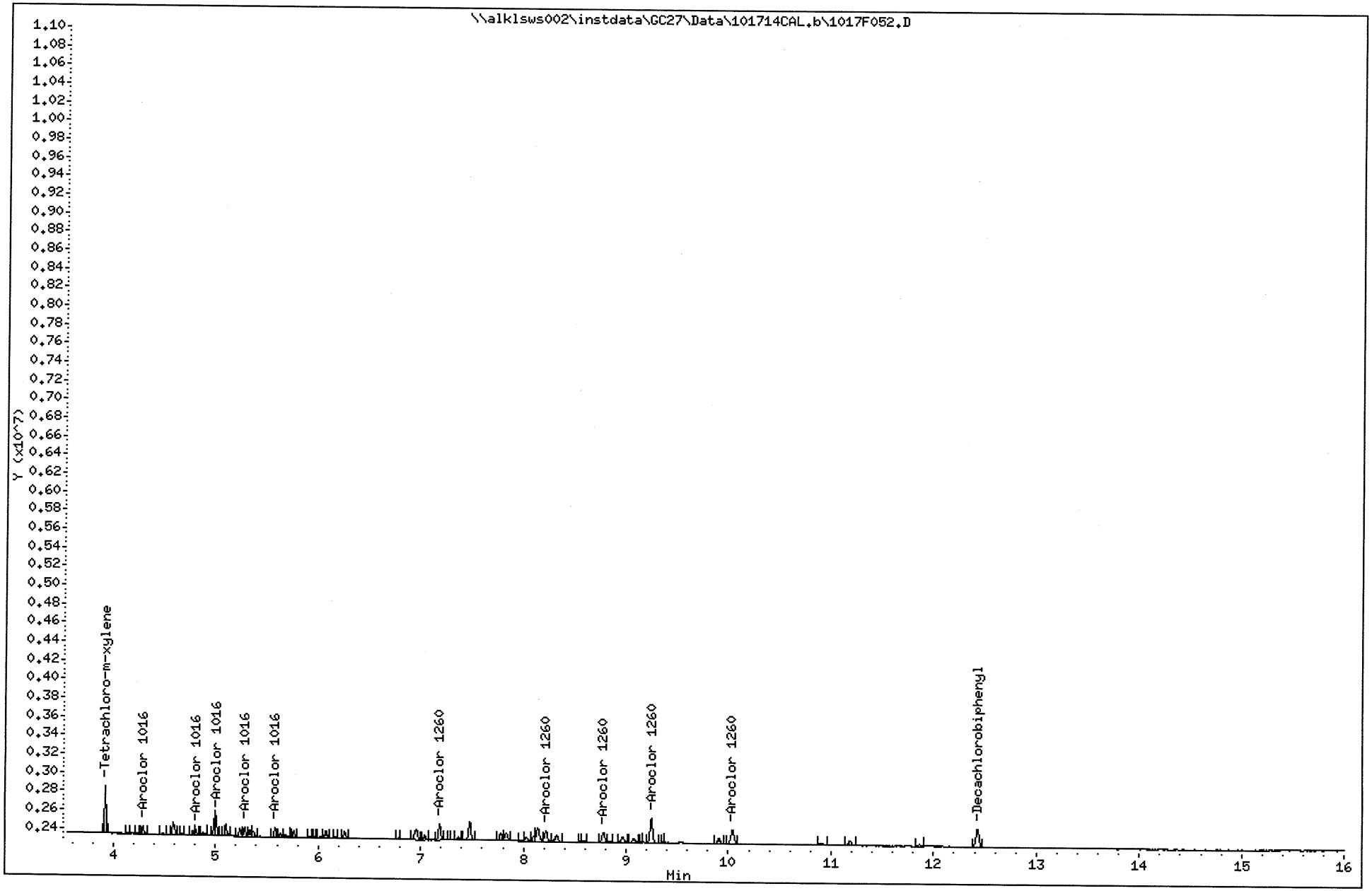
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



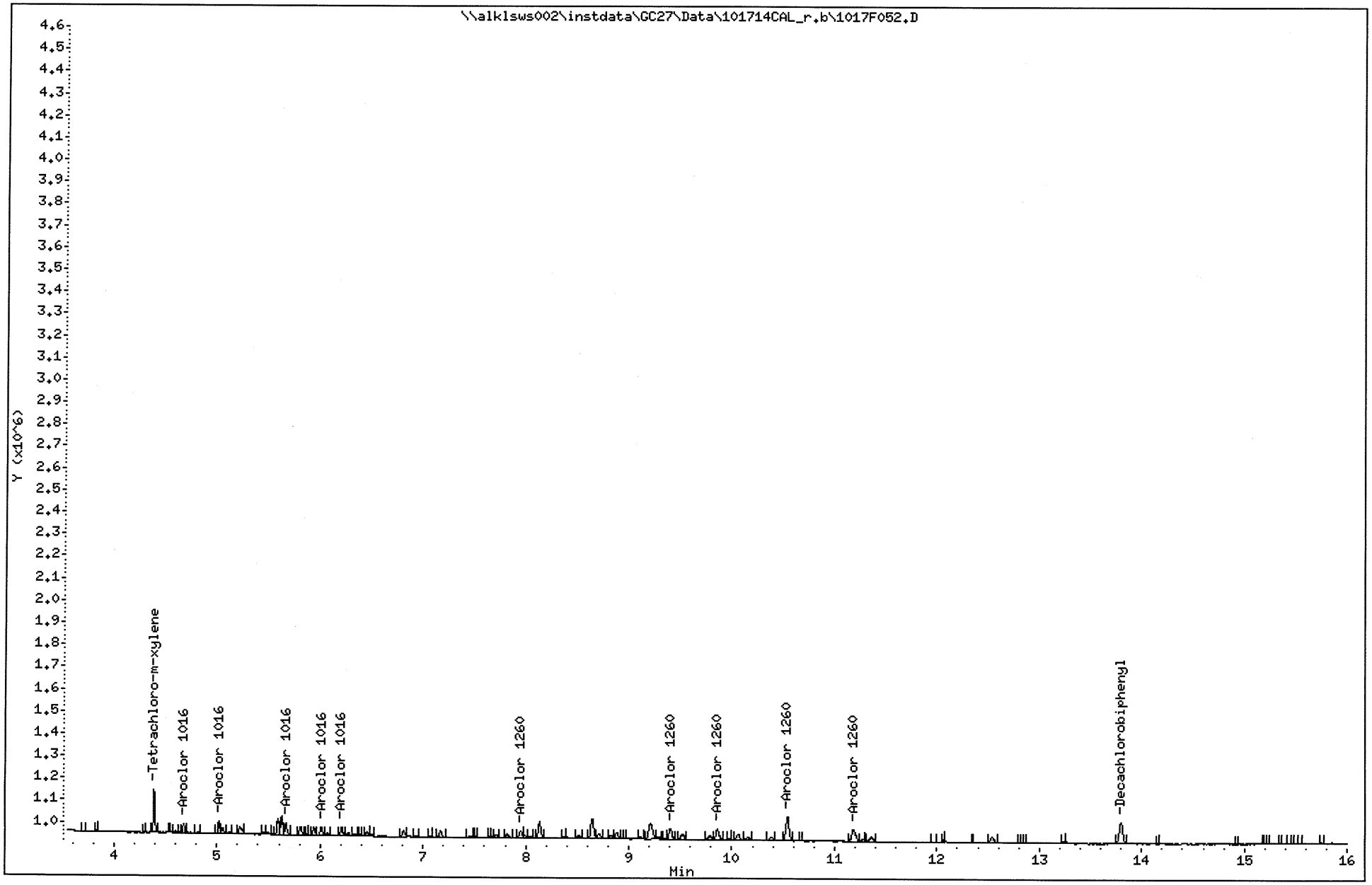
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Date : 19-OCT-2014 01:41
Client ID:
Sample Info: 1660 @ 2.5-25ppb PCB6-570

Instrument: GC27.i

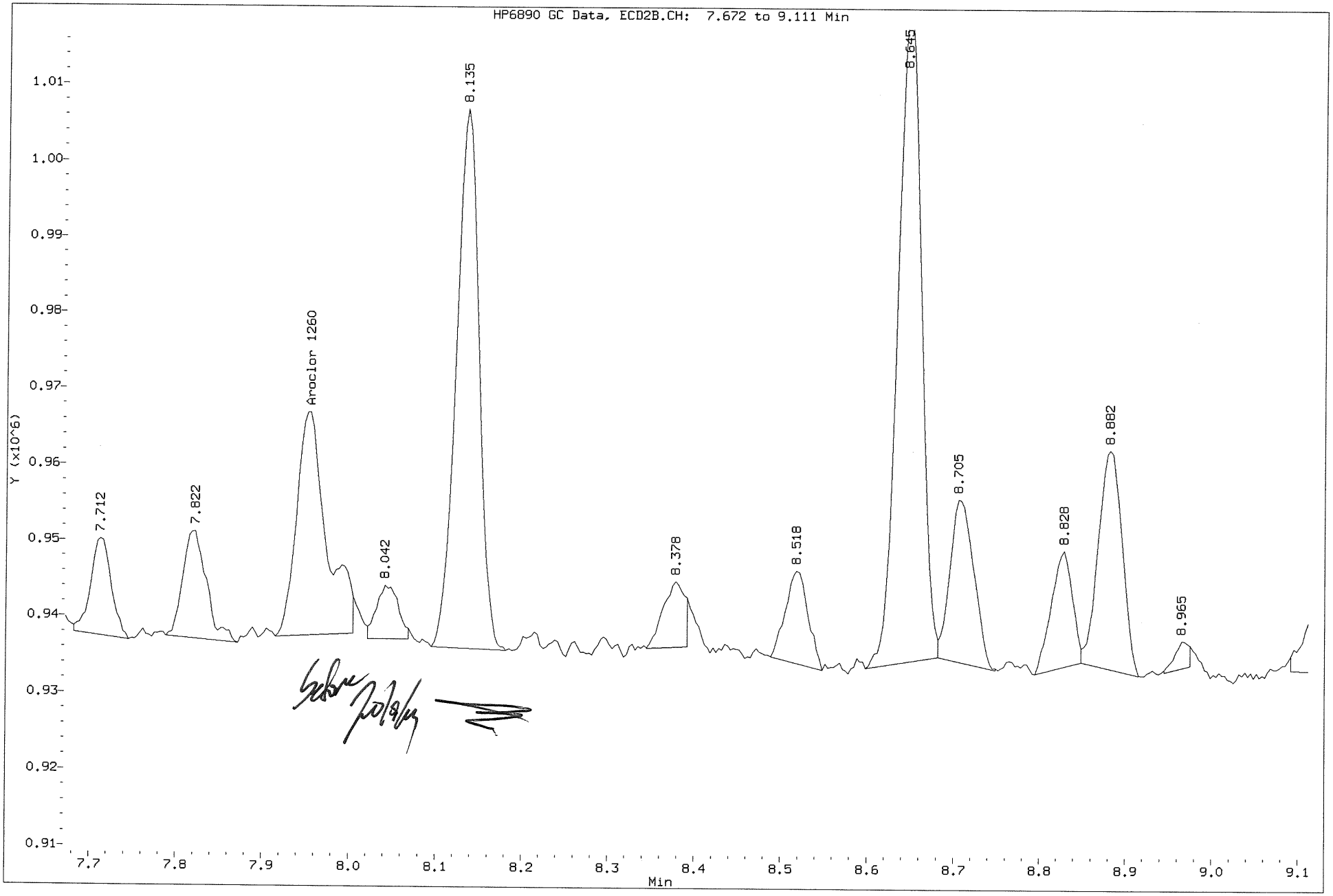
Operator: JHSmith

Column phase: DB-XLB

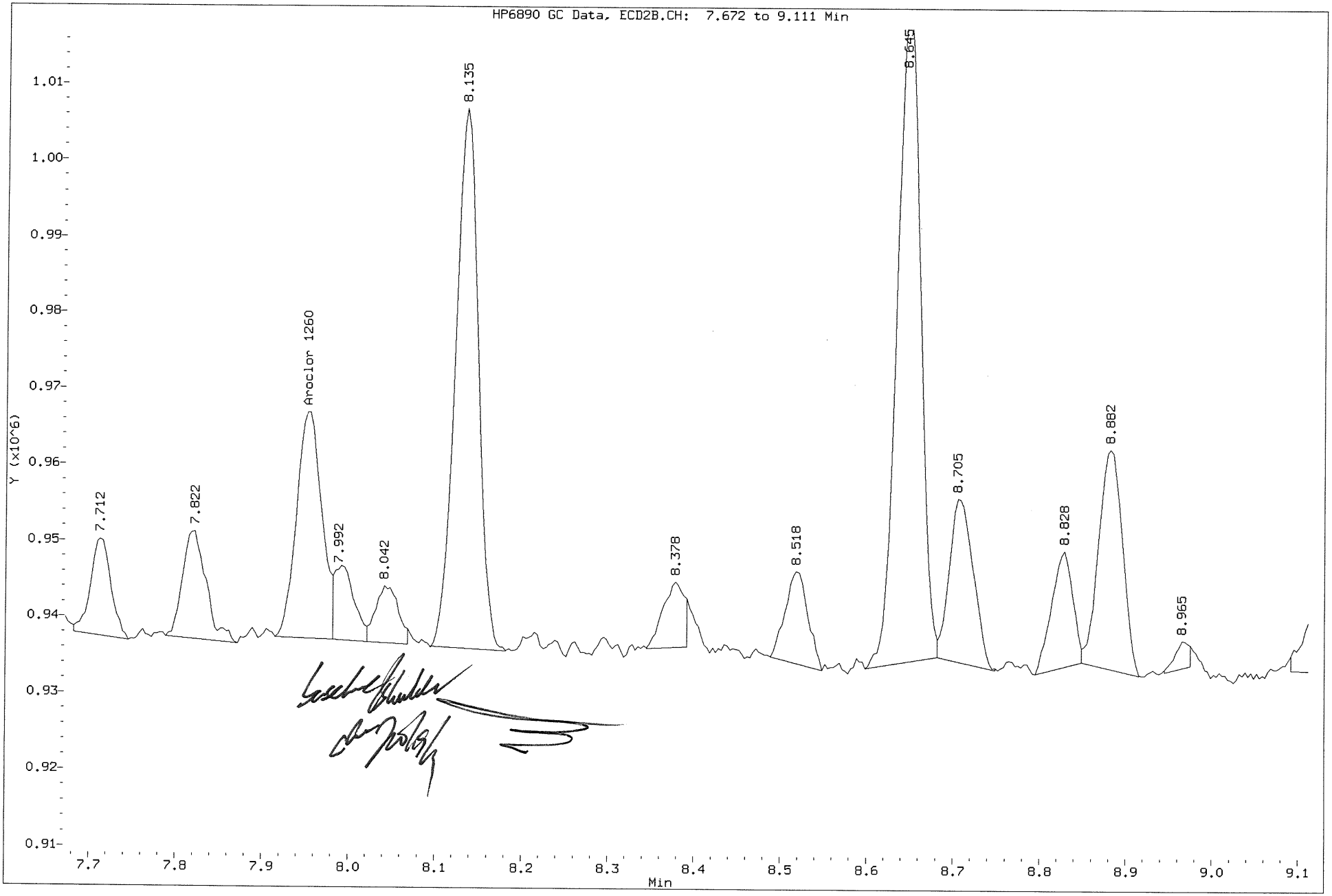
Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F052.D
Injection Date: 19-OCT-2014 01:41
Instrument: GC27.i
Client Sample ID:



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Inj Date : 19-OCT-2014 02:05
Sample Info: 1016 ICV @ 1000ppb PCB6-54B
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1016.sub
Sub List #2 : AR1016.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1016	4.290	4.677	4529836	1971257	1260	1070	80.00- 120.00	100.00
	4.806	5.020	3723189	2531421	1240	1040	63.25- 94.88	82.19
	5.006	5.670	11858495	3167367	1200	1060	208.60- 312.90	261.79
	5.283	6.010	5570554	2285223	1120	1040	105.00- 157.49	122.97
	5.583	6.210	6171419	2295424	1190	1060	110.41- 165.61	136.24
			Average of Peak Amounts =		1200	1050		

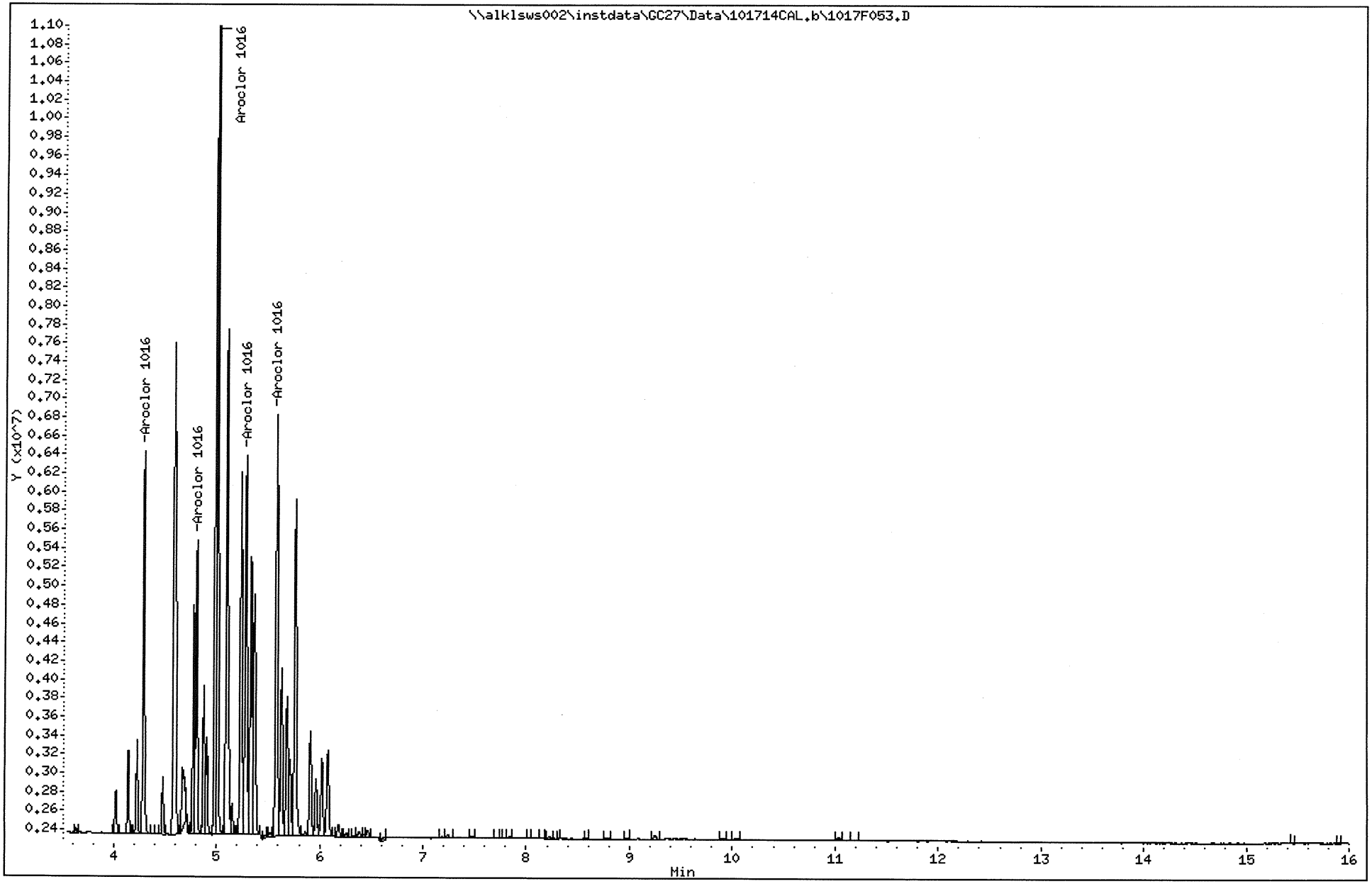
Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-35MS

Column diameter: 0.32



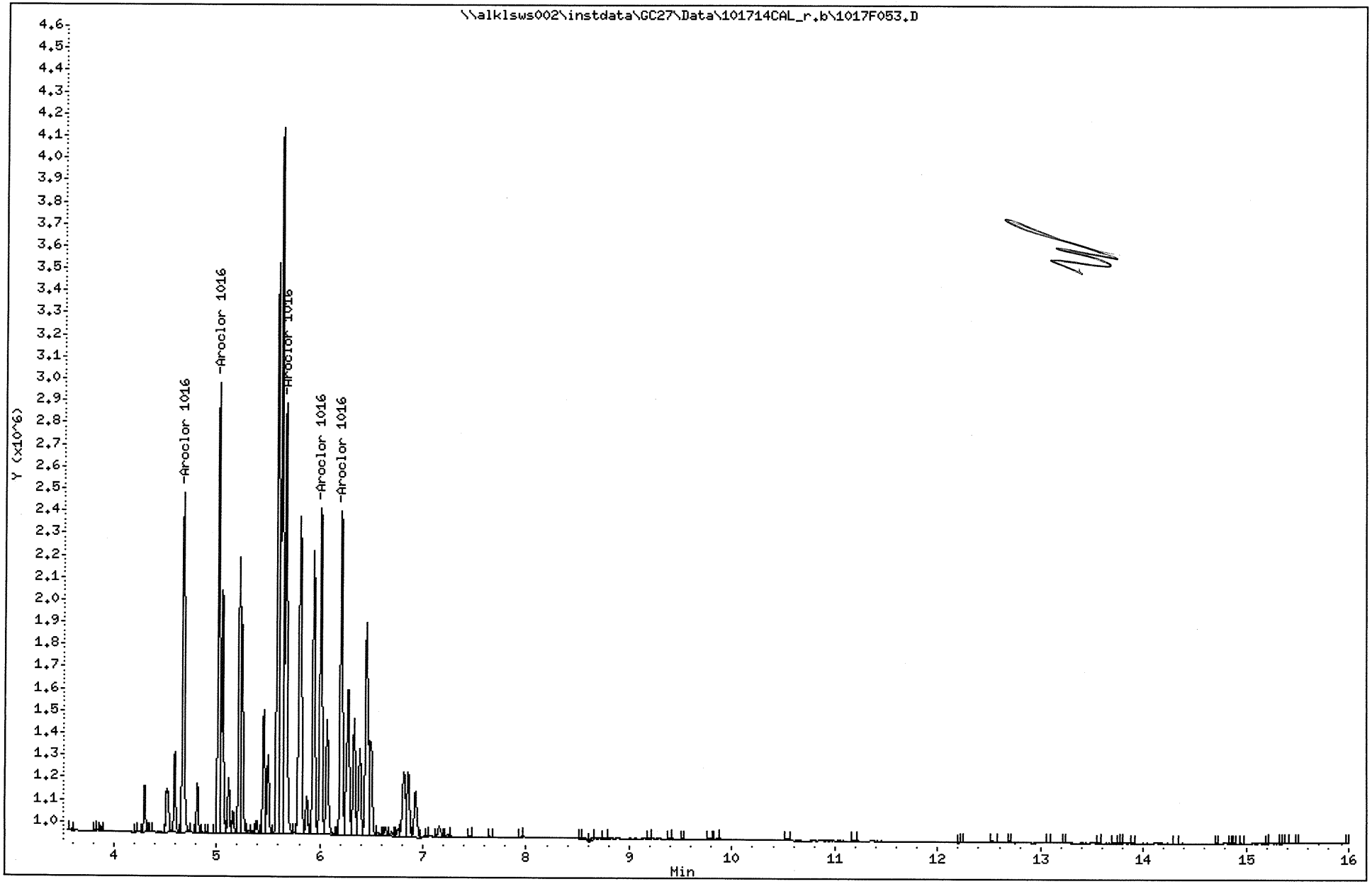
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F053.D
Date : 19-OCT-2014 02:05
Client ID:
Sample Info: 1016 ICV @ 1000ppb PCB6-54B

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Report Date: 19-Oct-2014 04:55

ALS Environmental-Kelso

Sample #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Sample #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Inj Date : 19-OCT-2014 02:28
Sample Info: 1260 ICV @ 1000ppb PCB6-54H
Misc Info :
Cal Date : 19-OCT-2014 04:54
Operator : JMSmith
Inst ID : GC27.i
Dil Factor : 1.000000

Method #1 : \\alklsws002\instdata\GC27\Data\101714CAL.b\101714_f.m
Method #2 : \\alklsws002\instdata\GC27\Data\101714CAL_r.b\101714_r.m
Sub List #1 : AR1260.sub
Sub List #2 : AR1260.sub
Col #1 Phase : DB-35MS
Col #2 Phase : DB-XLB

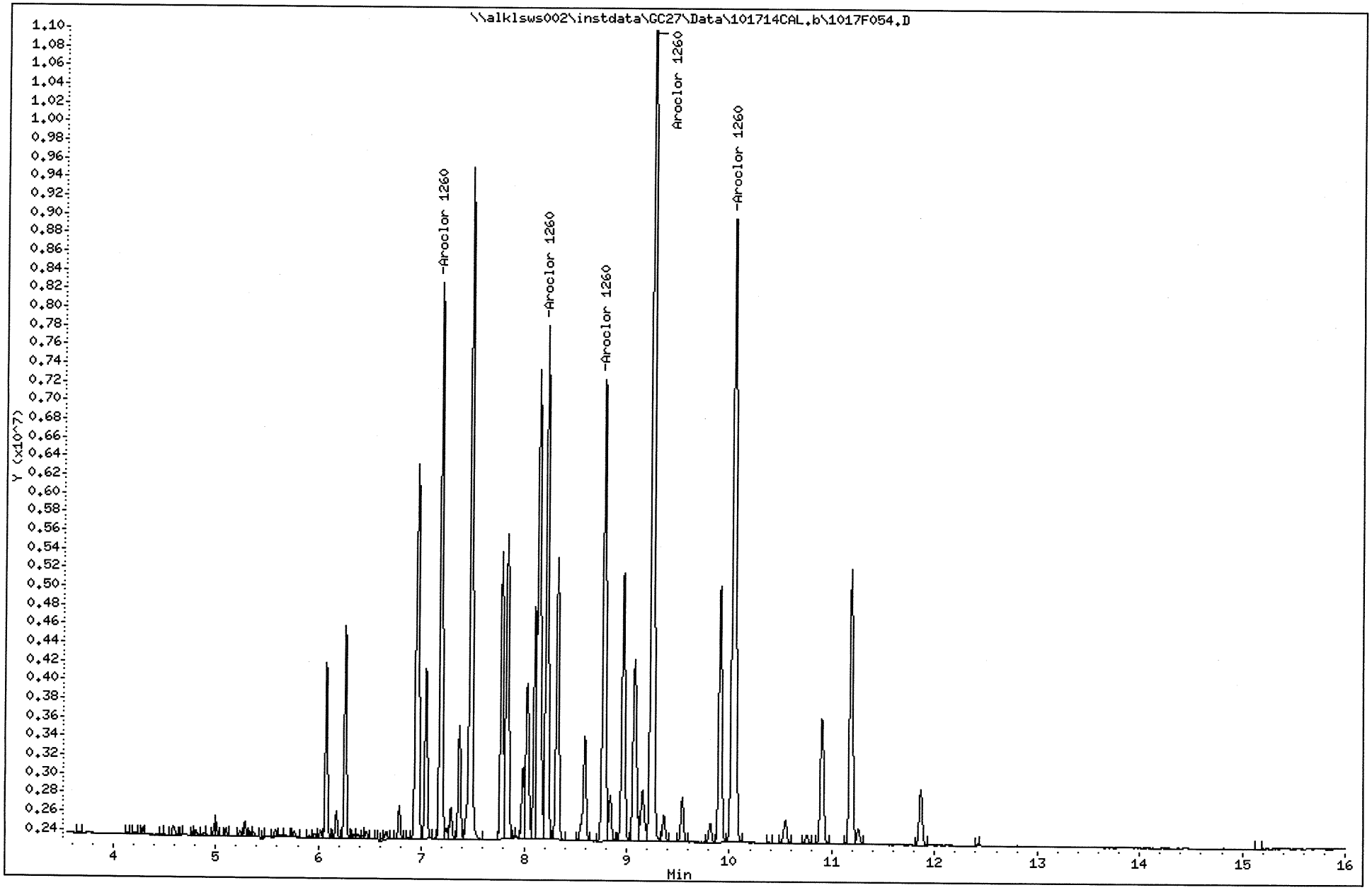
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1	Conc#2	Target Range	Ratio
Aroclor 1260	7.189	7.953	10344212	2591605	1050	1170	80.00- 120.00	100.00
	8.219	9.406	10305397	4907833	1270	1300	65.59- 98.39	99.62
	8.779	9.863	10237794	4407833	1240	1220	64.18- 96.27	98.97
	9.246	10.543	22887169	10744479	1220	1240	152.85- 229.28	221.26
	10.042	11.183	17192220	6678092	1210	1200	110.44- 165.66	166.20
			Average of Peak Amounts =		1200	1230		

Data File: \\alklsws002\instdata\GC27\Data\101714CAL.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith
Column diameter: 0.32

Column phase: DB-35MS



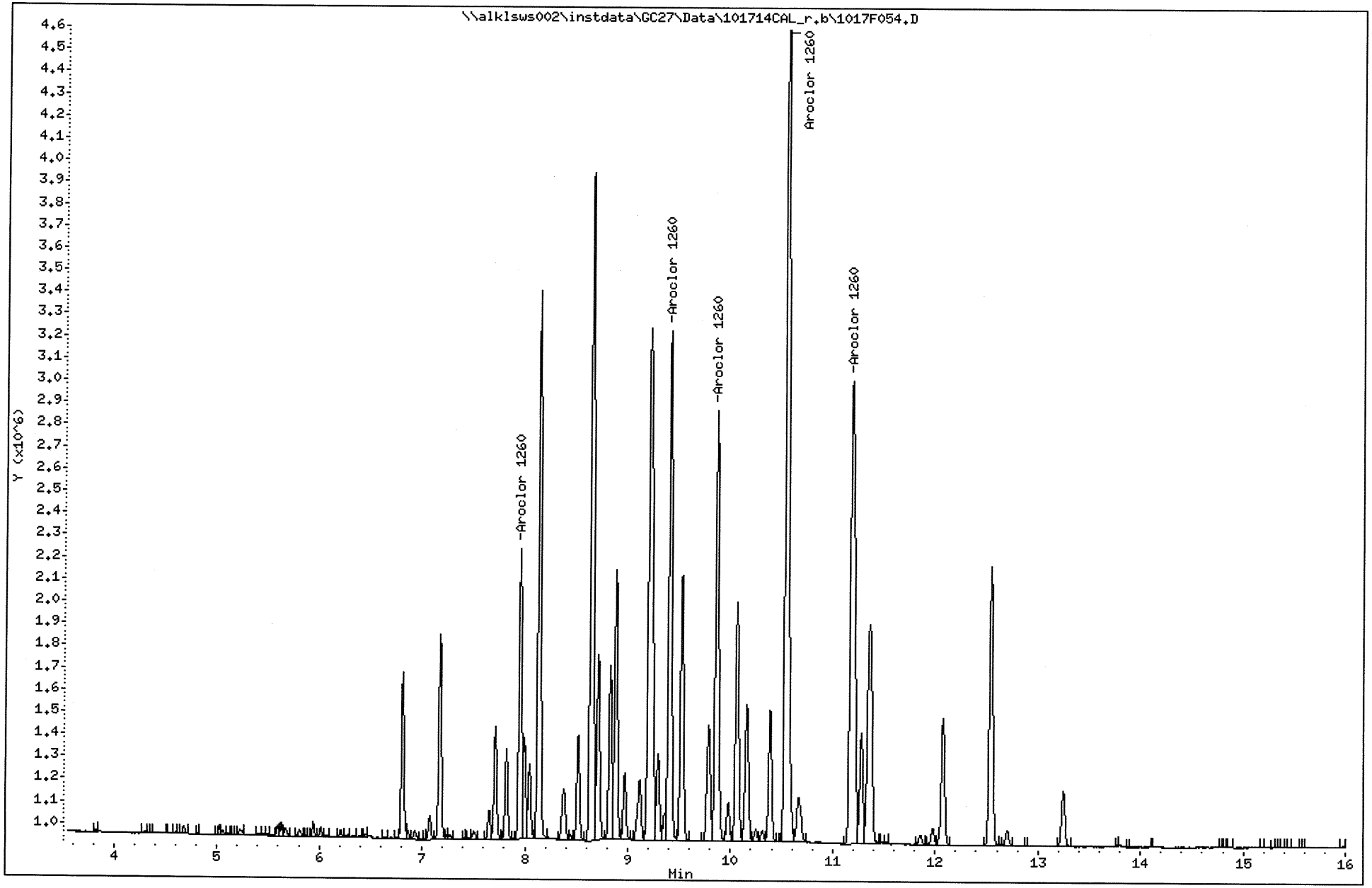
Data File: \\alklsws002\instdata\GC27\Data\101714CAL_r.b\1017F054.D
Date : 19-OCT-2014 02:28
Client ID:
Sample Info: 1260 ICV @ 1000ppb PCB6-54H

Instrument: GC27.i

Operator: JMSmith

Column phase: DB-XLB

Column diameter: 0.32



DILUTION LOG

LAB ID	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	ANALYST	SOLVENT LOT	COMMENTS
K1509213-003	10µL	1000µL	100X	09/23/15	MR	HEX: 101242	Target analyte overrange
-003 MS	↓	↓	↓	↓	↓	↓	↓
-003 DMS	↓	↓	↓	↓	↓	↓	↓
K1510240-001	20µL	↓	50X	↓	↓	↓	↓

Preparation Information

Group ID:	KWG1508974	**Prep Method:**	EPA 3541	**Prep Date:**	09/18/15 14:00
Department:	Semivoa GC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1509213-003	BF-4 Composite	8082A PCB LL	SOIL	40.050g	4ml	
K1510240-001	UBPE-2	8082A PCB LL	SOIL	40.112g	4ml	
KWG1508974-1	Matrix Spike	8082A PCB LL	SOIL	40.164g	4ml	
KWG1508974-2	Duplicate Matrix Spike	8082A PCB LL	SOIL	40.245g	4ml	
KWG1508974-3	Lab Control Sample	8082A PCB LL	SOIL	20.000g	4ml	
KWG1508974-4	Method Blank	8082A PCB LL	SOIL	40.245g	4ml	

Lab Code	Parent Lab Code	Comments
KWG1508974-1	K1509213-003	
KWG1508974-2	K1509213-003	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1509213-003	1468237					LMuresan
K1510240-001	1468013					LMuresan
KWG1508974-1	1468014					LMuresan
KWG1508974-2	1468015					LMuresan
KWG1508974-3	1468016					LMuresan
KWG1508974-4	1468017					LMuresan

Comments:

Started By: LLee Assisted By: Training Yes No

Completed By: KMiller Assisted By: Yes No

Reviewed By: Elissa Bruno Date: 9-23-15 Storage:

Chain of Custody

Relinquished By: Date: 9-22-15

Received By: MR Date: 09/23/15 0950 Extracts Examined Yes No

Preparation Information

Group ID: KWG1508974 **Prep Method:** EPA 3541 **Prep Date:** 09/18/15 00:00
Department: Semivoa GC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol. mL	Final Vol. mL	Surr. Added µL	Spike Added µL
1 *	K1509213-003	BF-4 Composite	.01	✓	8082A PCB LL	SOIL	40.050	N/A	10	4	200	–
2 *	K1510240-001	UBPE-2	.01	✓	8082A PCB LL	SOIL	40.112		10	4		–
3 *	KWG1508974-1	Matrix Spike K1509213-3	.01	✓	8082A PCB LL	SOIL	40.164		10	4		100
4 *	KWG1508974-2	Duplicate Matrix Spike	.01	✓	8082A PCB LL	SOIL	40.245		10	4		
5 *	KWG1508974-3	Lab Control Sample	–	–	8082A PCB LL	SOIL	20.000		10	4		
6 *	KWG1508974-4	Method Blank	–	–	8082A PCB LL	SOIL	40.245		10	4		–

Comments: * sample(s) came down with an hour left in extraction phase prep run #245174

Surrogate ID: PCB6-767, 2ppm, XP 3/17/16, 200 µL, EPP 10D
Spike ID: PCB6-73E, 40ppm, XP 12/29/15, 100 µL, EPP 3D
Witness: RD. 9/18/15

Started By: LLee Assisted By:
Completed By: Assisted By:

Additional Prep Information for EPA 3541
Pest/PCB/Con in Soil/Paperboard/Wipes

Service Request # K1510240 09213 **Work Group # Pest:** —
PCB: KWG1508974

Weighed (time/date/initial): 1400 9/18/15 LM Balance ID: K-Bal- 03 Calibration Verified ☑

Storage Location (if not extracted same day): —

DCM Lot # DN111 Sulfate Lot # K259001 Matrix Lot # 061614 Glass Wool Lot # 30714002

Soxtherm Start (time/date/initial): 1400 9/18/15 LL

Soxtherm Stop (time/date/initial): 1546 9/18/15 LL

Pipette (5 mL) Lot # 04715647

N-Evap (time/date/initial): 3:00 9-21-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

GPC Clean-up (3640)(time/date/initial): — Filter Lot # —
Solvent Exchange to Hexane (time/date/initial): 8:20 9-22-15 K Hexane Lot# ~~108975~~ 108975
S-Evap (time/date/initial): — S-Evap Thermometer ID: EE 9-22-15 K
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C
N-Evap (time/date/initial): 8:10 9-22-15 K N-Evap Thermometer ID: XSVM001
Temp as measured: 32 °C Correction factor: 0 °C Adjusted temp: 32 °C

Carbon Clean-up (Ext-Car) (time/date/initial): — Carbon Lot # —
Hexane 4:1 DCM Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Florisil Clean-up (Ext-Flor)(time/date/initial): — Florisil Lot # —
Hexane 1:1 Acetone Lot # — Hexane 9:1 Acetone Lot # —
N-Evap (time/date/initial): — N-Evap Thermometer ID: —
Temp as measured: — °C Correction factor: — °C Adjusted temp: — °C

Sulfuric Acid Clean-up (3665)(time/date/initial): 9:50 9-22-15 K Acid Lot #54344

Other Clean-up: 3660B 9-22-15 K ☑ all samples ☐ some samples: EXT002-95X

Pipette (2 mL) Lot # 16114646 Pipette (1 mL) Lot # —

Pest Vial: — Vial Storage: —
PCB Vial: Green Vial Storage: Mickey A1-6

Archived Extract Storage: Lonnie

Additional Comments:

Bench Sheet Review Check List
☑ Hold times met (if no, reason:)
☑ Prep date, time, method, department, product code correct in stealth
☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked - bottle numbers appended if required
☑ Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet
☑ Signed service request with Form V, if applicable, has been attached