

39

017501

TEL-6

Sample Number
R2118
LOW LEVEL SOLID

Laboratory Name Mund CompuChem
 Lab Sample ID No. 3201

Case Number 1764-SAS 568-R
 QC Report No. 127-30

Multiply all Values and Detection Limits by 1 or 10 or
 (Check Box for Appropriate Factor)

PESTICIDES *Det. Lim. x 10*

PP#	CAS#		ug/kg
(39P)	309-00-2	aldrin	4.0U
(90P)	60-57-1	dieldrin	4.0U
(91P)	57-74-9	chlordane	4.0U
(92P)	50-29-3	4,4'-DDT	4.0U
(93P)	72-55-9	4,4'-DDE	4.0U
(94P)	72-54-8	4,4'-DDD	4.0U
(95P)	115-29-7	endosulfan I	4.0U
(96P)	115-29-7	endosulfan II	4.0U
(97P)	1031-07-8	endosulfan sulfate	4.0U
(98P)	78-20-8	endrin	4.0U
(99P)	7421-43-4	endrin aldehyde	4.0U
(100P)	76-44-8	heptachlor	4.0U
(101P)	1024-57-3	heptachlor epoxide	4.0U
(102P)	319-84-6	BHC-Alpha	4.0U
(103P)	319-85-7	BHC-Beta	4.0U
(104P)	319-86-8	BHC-Delta	4.0U
(105P)	58-89-9	BHC-Gamma	4.0U
(106P)	53469-21-9	PCB-1242	4.0U
(107P)	11097-69-7	PCB-1254	4.0U
(108P)	11104-28-2	PCB-1221	4.0U
(109P)	11141-16-5	PCB-1232	4.0U
(110P)	12672-29-6	PCB-1248	4.0U
(111P)	11096-82-5	PCB-1260	4.0U
(112P)	12674-11-2	PCB-1016	4.0U
(113P)	8001-35-2	toxaphene	4.0U

DIOXINS ug/kg

(1298) 1746-01-6 2,3,7,8-tetrachlorodibenzo-
 p-dioxin 0.080U

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GC SCREEN DATA SHEET

Laboratory Name Mead CompuChem

Case Number 1764

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
R2118 3201	VOA			
	B/N/A			
	Pesticides Dioxin	M L		L L
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No.
 **Indicate "M" for medium level GC/MS analysis.
 Indicate "L" for low level GC/MS analysis.

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ORGANICS ANALYSIS DATA SHEET - Page 4

Lab Name Mead CompuChem

EPA Case# 1764

CompuChem# 3201

Sample Number
R2118

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Concentration Total (ug)	(Surrogates only)	
			Spike Added (ug)	% Recovery
dg-Toluene	VOA			
d4-1,2-Dichloroethane	VOA			

COMPOUND	Fraction	Concentration Total (ug)	(Surrogates only)	
			Spike Added (ug)	% Recovery
2-Fluorophenol	FSCC			
Pentafluorophenol	FSCC			
d5-Nitrobenzene	FSCC			
2-Fluorobiphenyl	FSCC			
2-Fluoroaniline	FSCC			
Decafluorobiphenyl	FSCC			

COMPOUND	Fraction	Concentration Total (ug/g)	(Surrogates only)	
			Spike Added (ug/g)	% Recovery
1,2,3,4-TCDD	TCDD	15.7	25	63

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LIST OF COMMONLY USED FOOTNOTES FOR EPA

- II Indistinguishable Isomers.
- I Presence indicated by extracted ion current profile; definitive spectra not obtainable due to interference.
- Q Quantitated from secondary ion.
- CI Concentration estimated; interferences present with primary quantitation ions.
- D Sample analysis using a _____ dilution.
- SE Sample extract could not be concentrated to 1.0 ml, thus the detection limits are higher than normal.
- DL Detection limits are adjusted to show change in sample quantity processed. The surrogate recoveries are not available.
- SR Surrogate recoveries are not available because it was necessary to dilute the extract, based on GC screening results.
- SC Suspected laboratory contaminant.
- LT Less than the specified detection limit but greater than one half of the detection limit (present but BDL).
- EV Estimated value. This footnote is used when estimating a concentration for a tentatively identified compound.
- H Volatile vial received with headspace.
- SV Amount corrected for sample volume.
- DC Compound calculated from a _____ dilution.
- CR Compound calculated using total RIC area. All secondary ions saturated.
- PC Pesticide or PCB confirmed by GC/MS.
- PN Pesticide or PCB cannot be confirmed by GC/MS.
- U Compound analyzed for but not detected. The number is the minimum detection limit.
- BDL Below Detection Limit

QUALITY ASSURANCE NOTICE

Due to a laboratory accident the volatile
portion of this sample was not analyzed. - no sample left
for repeat.

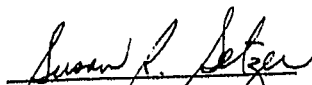
Susan R. Setzer
Quality Assurance Analyst

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01/10/00

QUALITY ASSURANCE NOTICE

Due to insufficient sample remaining, the semi-volatile + dry wt. portion of this sample was not analyzed.


Quality Assurance Analyst

QUALITY CONTROL NOTICE

CASE# 1764

QC report# 127,30

Due to a poor sample matrix, the pesticide sample spike performed in this case was diluted 100:1. Accurate quantitation was still difficult however. Under normal quality control standards, another sample spike would have been performed. However, the other sample in this case batch showed similar matrix problems. Therefore, we are reporting the original pesticide sample spike and duplicate data.

Paul Mills

Paul Mills

Quality Assurance-Director

6/17/83

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LOW SOLIDS

3208 3201 R2118
 SAMPLE NO. ORIGINAL NO. EPA NO.
 ASKED SAMPLE NOS: 3201, 3234

LAB NAME: READ COMPLIANCE
 QC REPORT NO: 127-30
 CASE NO: 1764

PP#	CAS#	COMPOUNDS	GRAS SAMPLE RESULTS	QC SAMPLE RESULTS	SPIKE ADDED ug/kg	% RECOVERY
(98P)	201-00-2	aldrin	ND	53.3	83.2	64
(99P)	60-57-1	dieldrin	ND	64.7	80.4	80
(91P)	97-74-9	chlordane				
(92P)	90-29-3	4,4'-DDT				
(93P)	72-93-9	4,4'-DDE				
(94P)	72-94-8	4,4'-DDD				
(95P)	119-29-7	endosulfan I				
(96P)	119-29-7	endosulfan II				
(97P)	1631-07-8	endosulfan sulfate				
(98P)	78-20-8	endrin				
(99P)	2421-43-4	endrin aldehyde				
(100P)	76-44-8	heptachlor	ND	44.5	81.6	55
(101P)	1024-57-3	heptachlor epoxide				
(102P)	319-84-6	BHC-Alpha				
(103P)	319-85-7	BHC-Beta				
(104P)	319-86-8	BHC-Delta				
(105P)	38-89-9	BHC-Gamma				
(106P)	93469-21-9	PCB-1242				
(107P)	11097-49-7	PCB-1254				
(108P)	11104-28-2	PCB-1221				
(109P)	11141-16-3	PCB-1232				
(110P)	12672-29-4	PCB-1248				
(111P)	11096-82-3	PCB-1260				
(112P)	12874-11-2	PCB-1016				
(113P)	8001-35-2	toxaphene				

DICKINS

(1298) 1744-01-6 2,3,7,8-tetrachlorodibenzo-p-dioxin

Field samples are prepared using a weighed portion,
 data is reported on a per weight basis.
 Mod 8 802

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PESTICIDES DUPLICATE ANALYSIS

LOW SOLIDS

3209 3201 R2118
 QC FILE NO. ORIGINAL NO. EPA NO.
 ASSOCIATED SAMPLE NOS:

LAB NAME: Neos Conduchem
 QC REPORT NO: 127-30
 CASE NO: 1764

PPM	COMPOUNDS	QC SAMPLE RESULTS ug/ka	ORIG. SAMPLE RESULTS ug/ka	RELATIVE PERCENT DIFFERENCE
	Pesticides			
	PCB's			
39P	aldrin	120	53.3	77
90P	dieldrin	70	64.7	8
100P	heptachlor	140	44.5	104

S/S
 *Liquid samples are prepared using a weighed portion,
 all data is reported on a per weight basis.

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LOW LEVEL SOLID

Laboratory Name Head CompuChemCase Number 1764Lab Sample ID No. BTANK 3486QC Report No. 136-28associated samples 32.01, 32.34Multiply Detection Limits by 1 or 10 or
(Check Box for Appropriate Factor)

PESTICIDES

PP#	CAS#		ug/kg
(39P)	309-00-2	aldrin	4.0U
(90P)	60-57-1	dieldrin	4.0U
(91P)	57-74-9	chlordane	4.0U
(92P)	50-29-3	4,4'-DDT	4.0U
(93P)	72-55-9	4,4'-DDE	4.0U
(94P)	72-54-8	4,4'-DDD	4.0U
(95P)	115-29-7	endosulfan I	4.0U
(96P)	115-29-7	endosulfan II	4.0U
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(104P)	319-86-8	BHC-Delta	4.0U
(105P)	58-89-9	BHC-Gamma	4.0U
(106P)	53469-21-9	PCB-1242	4.0U
(107P)	11097-69-7	PCB-1254	4.0U
(108P)	11104-28-2	PCB-1221	4.0U
(109P)	11141-16-5	PCB-1232	4.0U
(110P)	12672-29-6	PCB-1248	4.0U
(111P)	11096-82-5	PCB-1260	4.0U
(112P)	12674-11-2	PCB-1016	4.0U
(113P)	8001-35-2	toxaphene	4.0U

DIOXINS

ug/kg

2,3,7,8-tetrachlorodibenzo-
(129B) 1746-01-6 p-dioxin 0.080U

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ORGANICS ANALYSIS DATA SHEET

Lab Name: Head CompuChem

CASE# 1764

Lab Sample T.D. No. 3486
Blank-TCDD

QC REPORT# 136-28

Associated samples 3201, 3234

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	Unit Area Conc.	(Surrogates only)	
			Spike Added	Unit Area % Recovery
1,2,3,4-TCDD	PEST	205	250	82

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COMPUCHEM NO. 3486 DATE _____

IDENTIFIER TCDD - LOW LEVEL SOLID

COMPOUND LIST - NO. _____

COUNTER	COMPOUND NUMBER	COMPOUNDS	QUANT. REPORT VALUE	CORRECTION FACTOR	RESULTS (ug/kg)	DETECTION LIMIT(ug/kg)
5	469	2378-TCDD	_____	<input type="checkbox"/>	<u>160</u>	20 x <input type="checkbox"/> <u>0.008*</u>

SURROGATE (1234-TCDD) RECOVERY =

$$\frac{\text{Quant Report Value M/E 320 (1234-TCDD)}^\dagger}{250 \text{ (Spike Level) pg/u}} \times 100\% =$$

$$\frac{205}{250} \times 100\% =$$

82%

† Quant. Report value M/E 230 (1234-TCDD) =

$$\frac{200 \text{ pg/u}}{\text{Area M/E 332 (Sample)}} \times \frac{\text{Area M/E 320 (1234-TCDD)}}{\text{RF Shift Std.}}$$

$$\frac{200}{\text{_____}} \times \frac{\text{_____}}{\text{_____}} = \text{_____}$$

CORRECTION FACTOR = 0.1

$$\frac{\text{Final Extract Volume (ml)}}{0.1 \text{ ml}} \times \frac{50 \text{ g}}{\text{Vol. Extracted (g)}} \times 0.008 = \text{_____}$$

0.037
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JRT 6/83

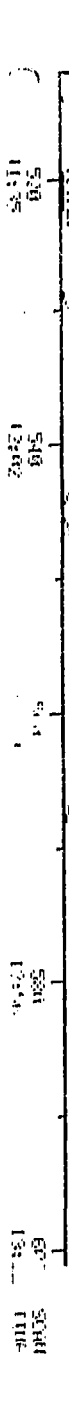
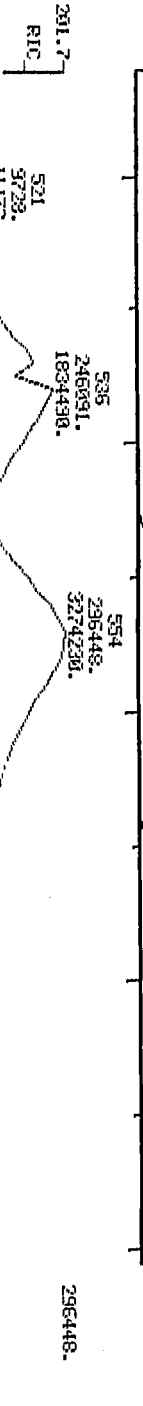
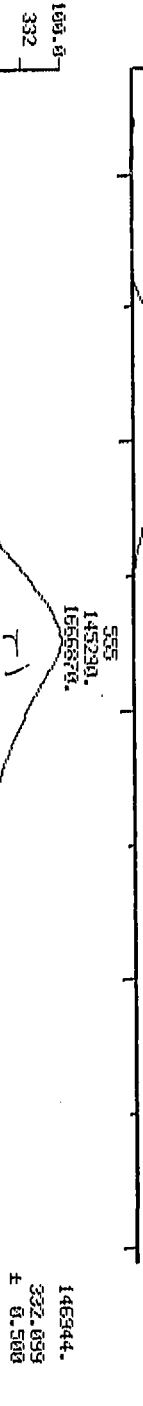
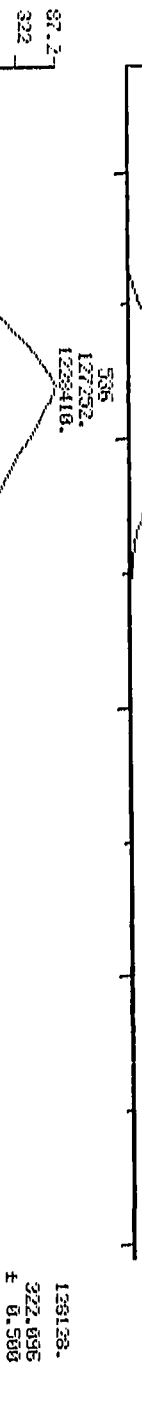
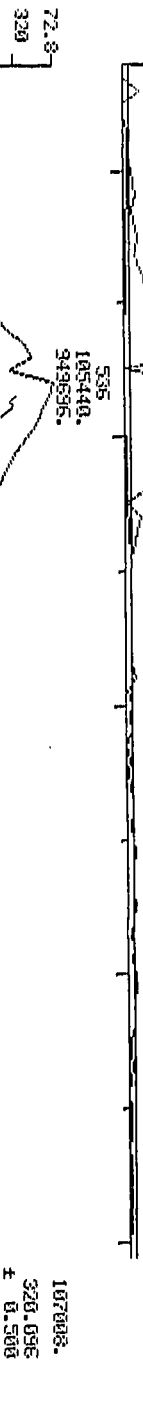
RIC + MASS CHROMATOGRAMS
 06/13/83 17:03:08
 SAMPLE: 2UL 3201 6-9-1983
 2.3.7.8-TCDD

NEAD COMPUSER
 DATA: T0803201B03

SCANS 512 TO 861

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1746-21-7

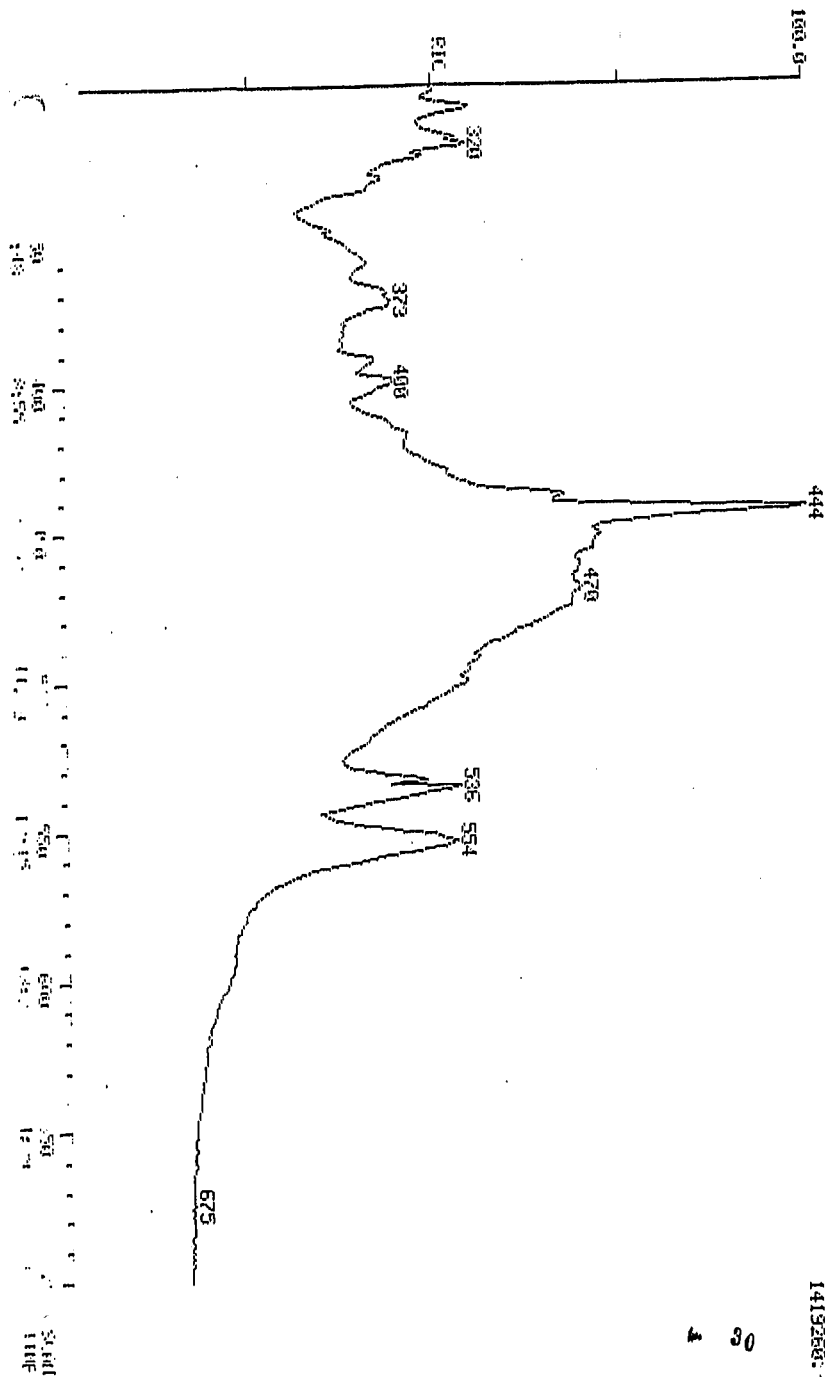


RIC
06/13/83 17:03:00
SAMPLE: ZUL 3201 6-9-1983

HEAD COMPUTER DATA: T0803201B03

SCANS 300 TO 700

017516
14192801



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MEAD COMPUCHEM
 ANALYTICAL REPORT FILE: TC003201803

TC003201803.TI
 12/13/89 17:09:00
 SAMPLE: BUL 3201 6-9-1983
 SUBMITTED BY: 03 ANALYST: 727

AMOUNT=AREA(HGHT) * REF. AMNT/(REF. AREA(HGHT)* RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO NAME
 1 *13C12-2, 3, 7, 8-TCDD (INTERNAL STANDARD)
 2 1, 2, 3, 4-TCDD
 3 1, 2, 3, 4-TCDD
 4 1, 2, 3, 4-TCDD
 5 2, 3, 7, 8-TCDD
 6 2, 3, 7, 8-TCDD
 7 2, 3, 7, 8-TCDD

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	332	555	12:22	1	1.000	A 88	1788810.	200.000 PG/UL	26.19
2	320	536	11:57	1	0.966	A*88	1052280.	157.240 PG/UL	20.59
3	322	536	11:57	1	0.966	A 88	1294070.	194.736 PG/UL	25.50
4	357	536	11:57	1	0.966	A*VB	610048.	211.664 PG/UL	27.72

5 NOT FOUND
 6 NOT FOUND
 7 NOT FOUND

	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	12:15	1.01	1.000	1.00	200.00	200.00	1.000	1.000	1.00
2	11:59	1.00	0.969	1.00	157.24	200.00	0.588	0.748	0.79
3	11:58	1.00	0.968	1.00	194.74	200.00	0.723	0.743	0.97
4	11:58	1.00	0.968	1.00	211.66	200.00	0.341	0.322	1.06
5	12:22		1.000			200.00		0.555	
6	12:22		1.000			200.00		0.741	
7	12:24		1.002			200.00		0.260	

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PROCEDURE: RK
DATA FILE: TC003201B03
REFERENCE: TC
METHOD: TC
REPORT: TCS

DIAGNOSTIC REPORT

6/13/83 21:50:14

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

----- STANDARDS ----- >< --- PLUS UNKNOWN --- >< - LIST NAMES - >
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN
- 2 2 2 7 4 1 3 TCS/TCU

COMPOUNDS PROCESSED, 4 FOUND

COMPOUND	><	SEARCH	><	SAT	><	CHRO	>						
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	TC	1	555	554	554	.	2	892	.	322	555	1	1
2	TC	2	537	536	536	.	1	922	.	320	536	.	2
3	TC	3	537	536	536	.	1	922	.	322	536	.	1
4	TC	4	537	536	536	.	1	922	.	257	536	.	2
5	TC	5	557	556	.	.	.	.	.	320	.	.	.
6	TC	6	557	556	.	.	.	.	.	322	.	.	.
7	TC	7	-559	558	.	.	.	.	.	257	.	.	.

017518

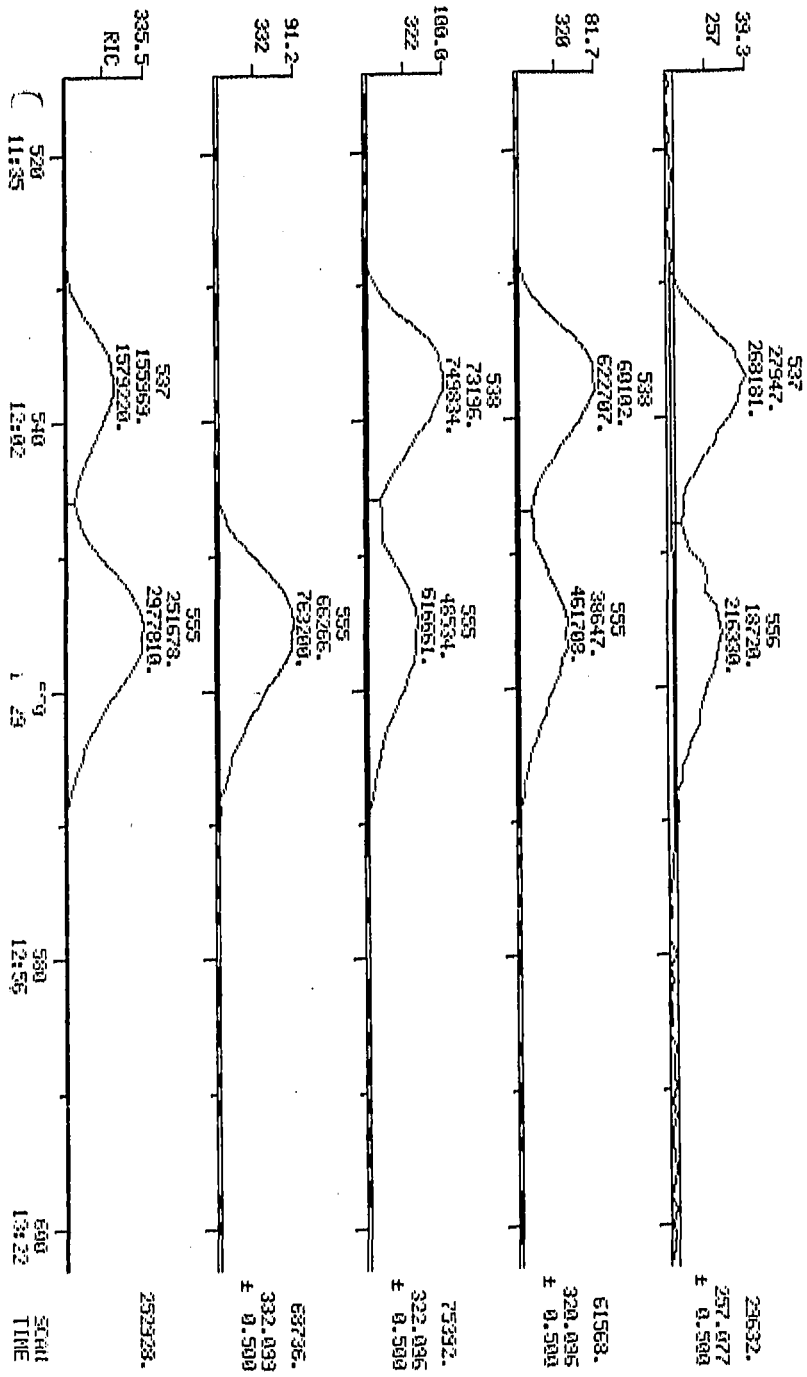
30 4 000107

RIC + MASS CHROMATOGRAMS
 06/13/88 9:42:00
 SAMPLE: ZUL TCDD STD #6949 ON #3
 Z.3.7.8-TCDD

HEAD COMPUCHEM
 DATA: 19830613A03

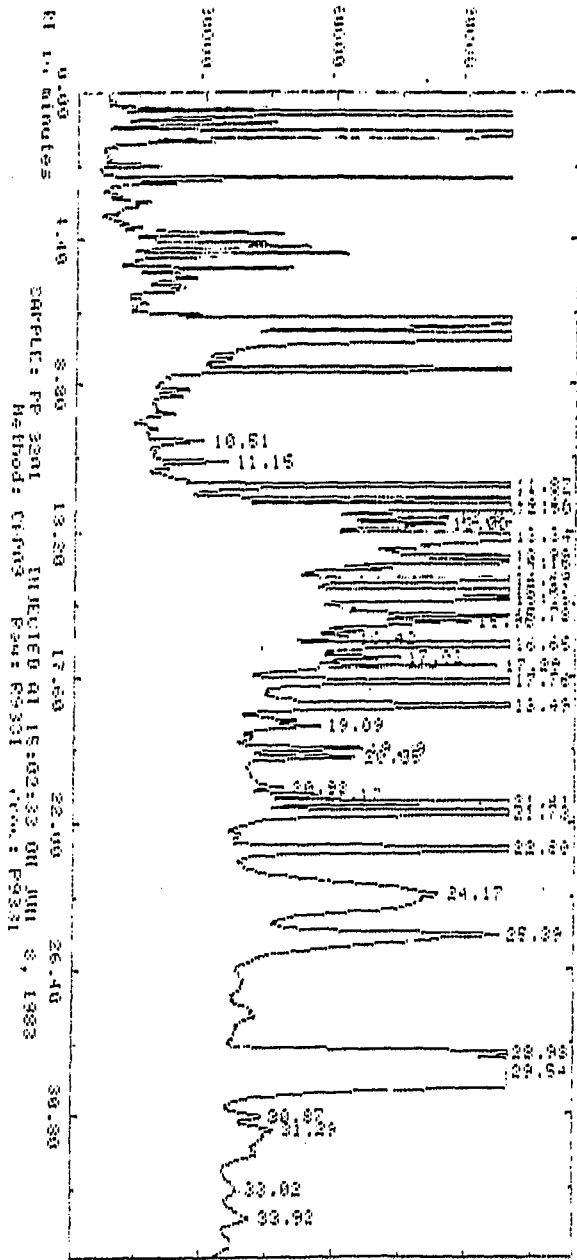
SCANS 514 TO

9
 117
 110



520 11:35 540 12:02 1 29 580 12:55 600 13:22
 RIC
 520 11:35 540 12:02 1 29 580 12:55 600 13:22
 SCALE TIME

AMPLITUDE 0.25 UV-seconds 0.25 14.00



017520

Column A

1.5% 2250/1.95% 2401 Supelco
Cond.: 190, isothermal
Ar/CH₄, 25 cc/min.

Peaks, Q250 Standard

1A Alpha-BHC
2A Beta-BHC
3A Gamma-BHC
4A Heptachlor Epoxide
5A Alpha-Chlordane
6A p,p'-DDE
7A p,p'-DDD
8A p,p'-DDT
9A Endosulfan Sulfate

Peaks, Q266 Standard

10A Delta-BHC
11A Heptachlor
12A Aldrin
13A Delta-Chlordane
14A Endosulfan I
15A Dieldrin
16A Endrin
17A Endosulfan II
18A Endrin Aldehyde

Column B

Capillary Column DB-5 30M
50 for 1 then 210 at 20
hold 1 then 250 at 3 hold 20
Ar/CH₄, 50 cm/sec

Peaks, Q250 Standard

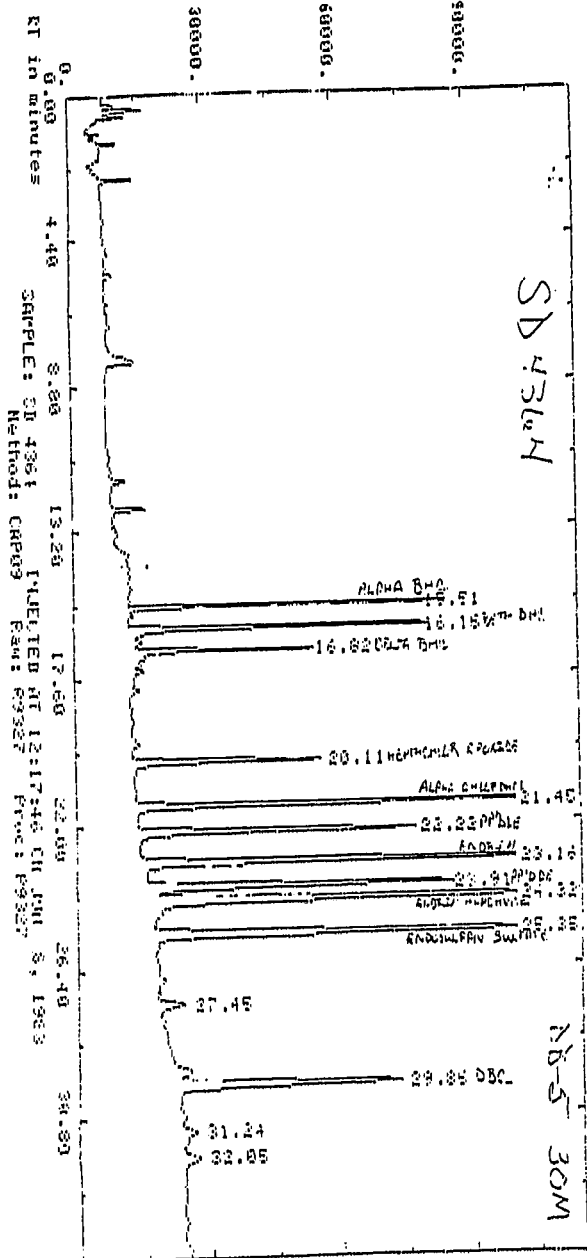
1B Alpha-BHC
2B Beta-BHC
3B Gamma-BHC
4B Heptachlor Epoxide
5B Alpha-Chlordane
6B p,p'-DDE
7B p,p'-DDD
8B Endosulfan Sulfate
9B p,p'-DDT

Peaks, Q266 Standard

10B Delta-BHC
11B Heptachlor
12B Aldrin
13B Delta-Chlordane
14B Endosulfan I
15B Dieldrin
16B Endrin and Endosulfan II
17B Endrin Aldehyde

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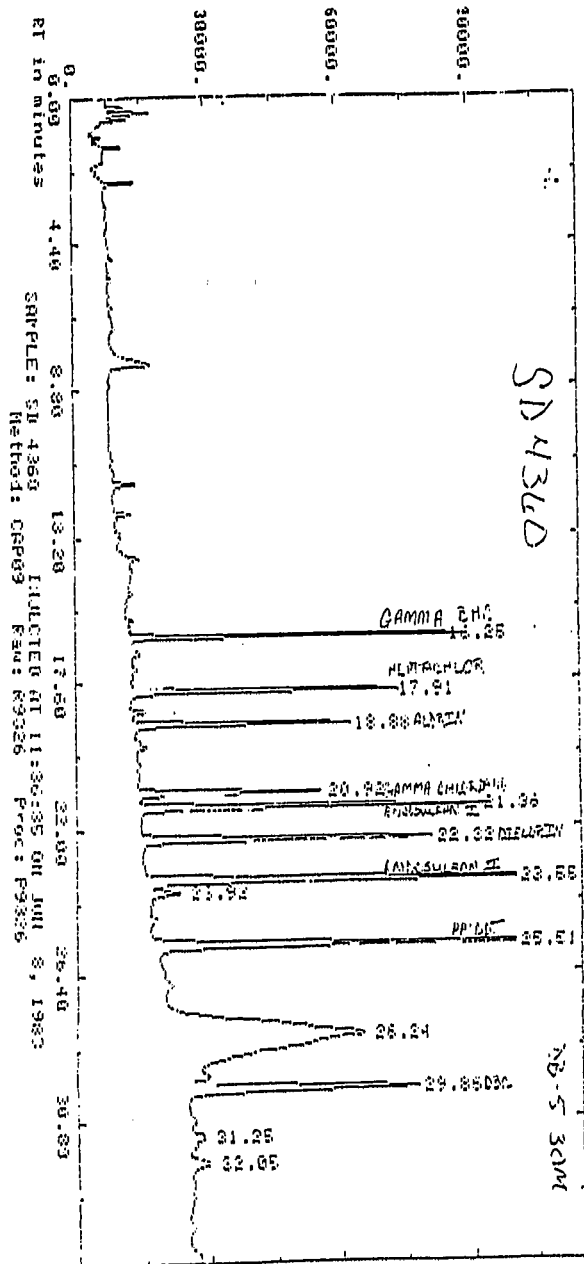
AMPLITUDE X.25 UV-SECORDE 16115-140 X 112



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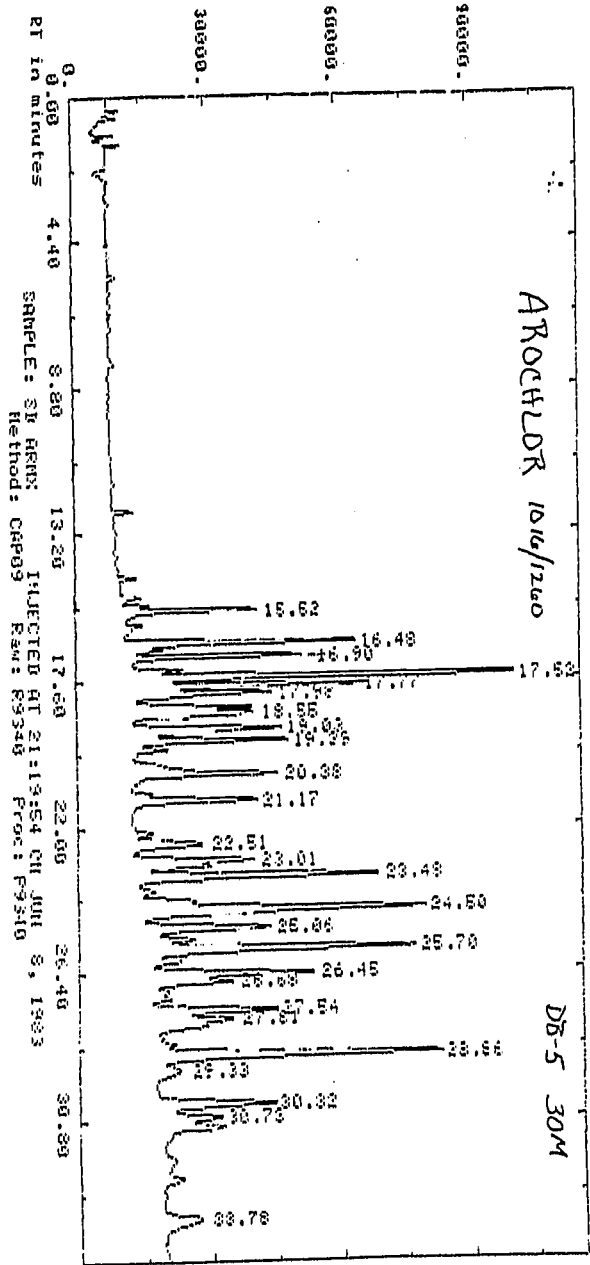
017522

AMPLITUDE x.25 uV-sec (Enlarge. x 1.12)



017523

AMPLITUDE x.25 uV-seconds (Enlarged x 1.14)

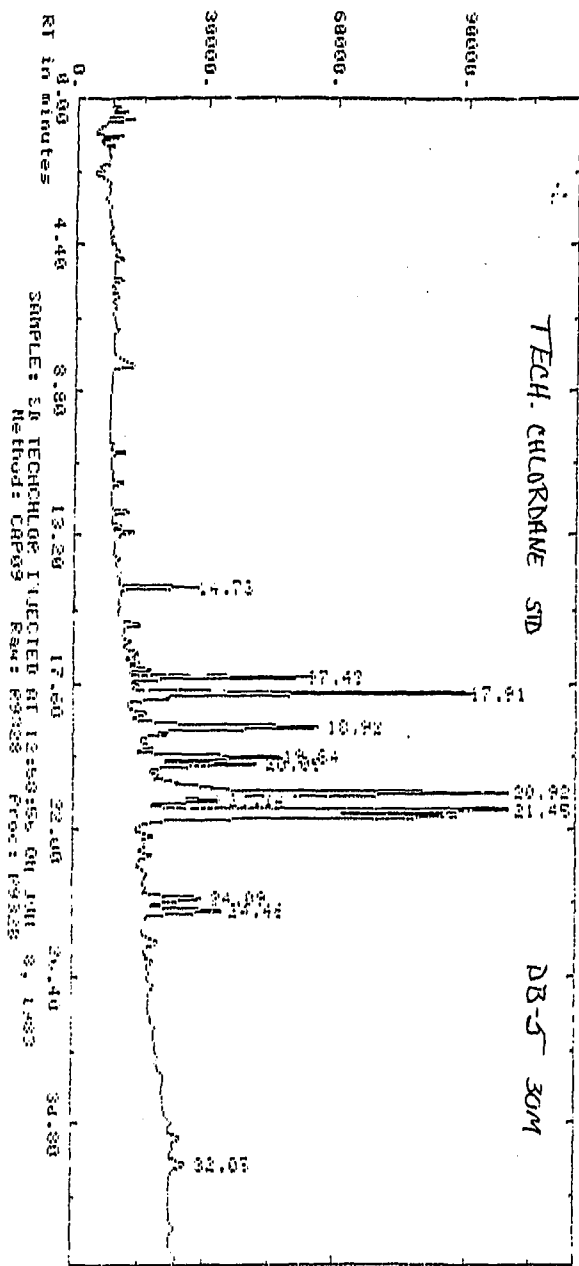


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4-11-73

AMPLITUDE x.25 UV-second: (Enlarged x 1.25)

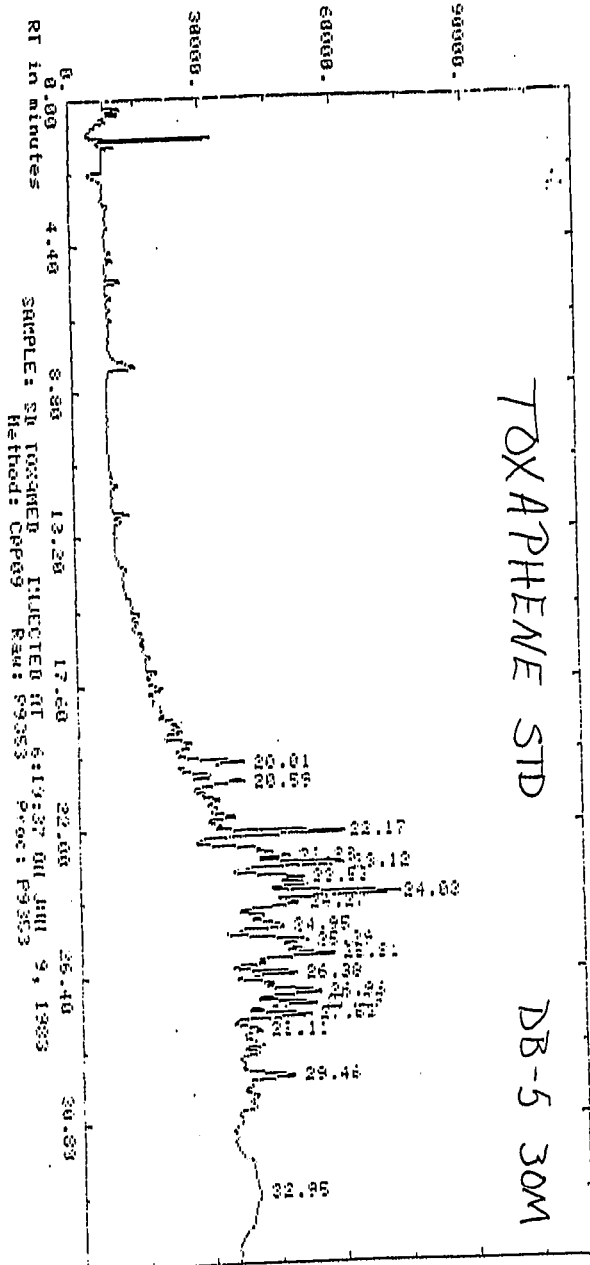


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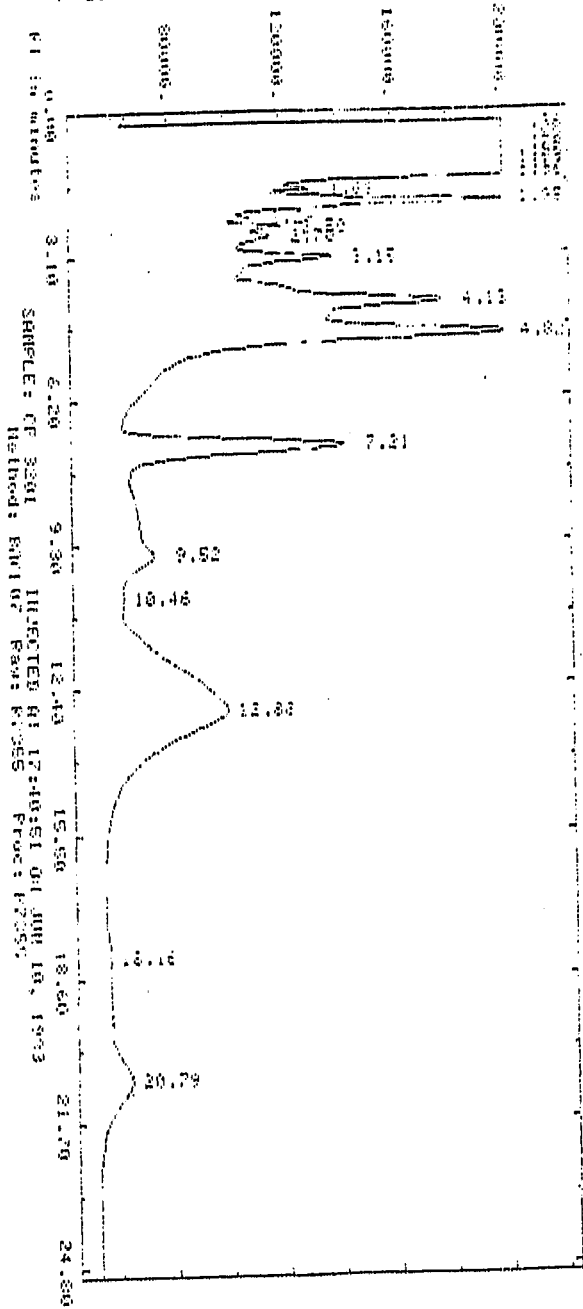
AMPLITUDE x.25 UV-seconds (Enlarge. x .63)



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AMPLITUDE x.17 20-second: Enlarged

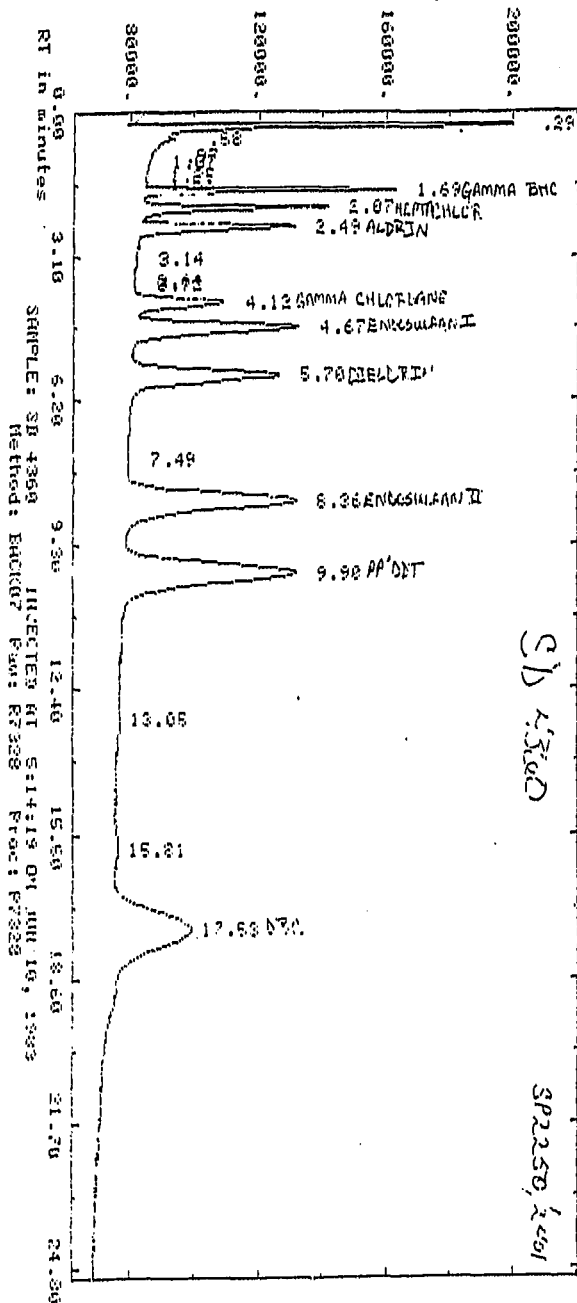


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AMPLITUDE x.25 uv-seconds (Enlarged x 3.65)



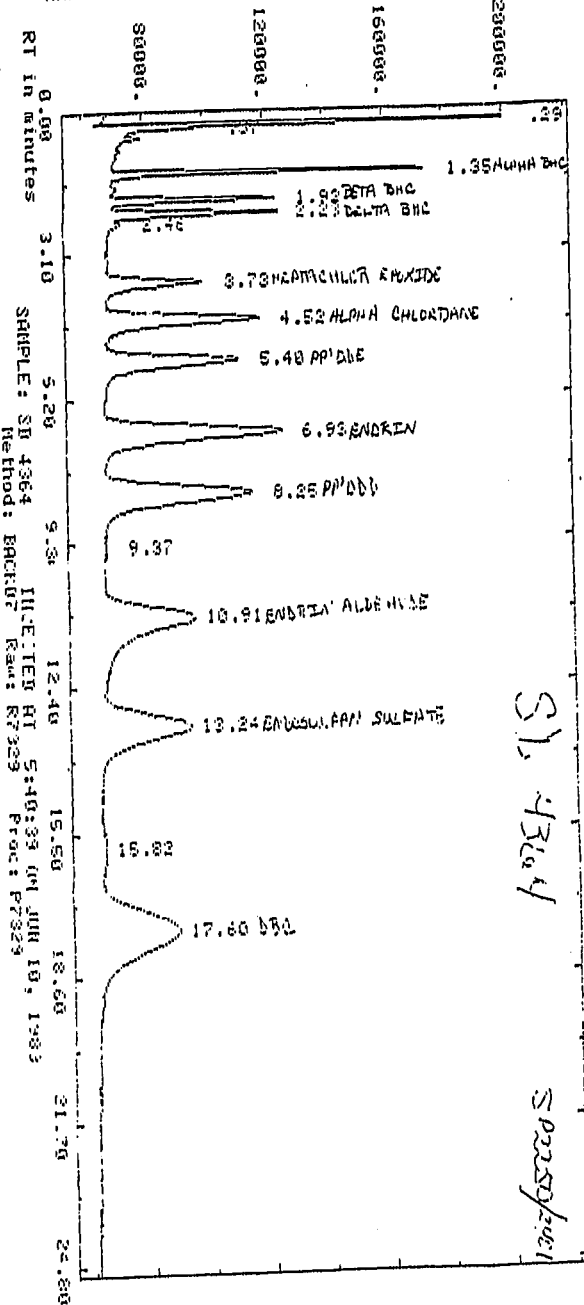
SAMPLE: SB 1360 INJECTED RT 5:14:19 ON JUN 10, 1963
Method: Backer Pao: R7328 Prct: P7322

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AMPLITUDE x.25 uV-sec (Enlarged x 5.0)



RT in minutes

SAMPLE: SH 4364 INJECTED RT 5:10:33 04 JUN 1983

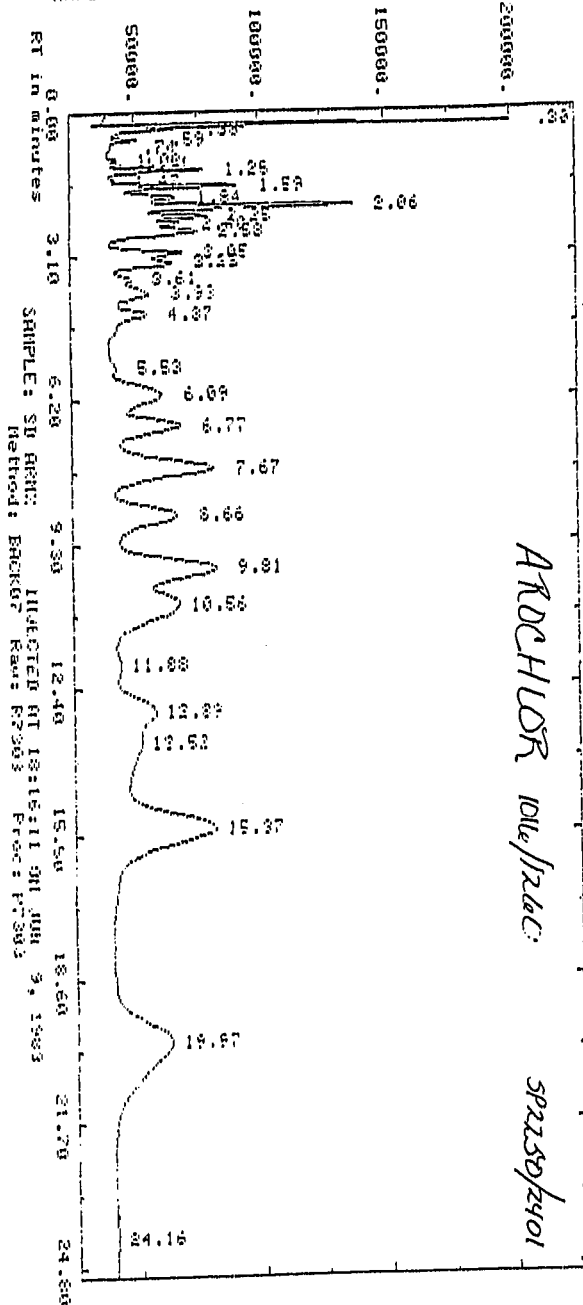
Method: BACKUP Raw: R7329 Proc: P7829

SH 4364

Spectroscopy

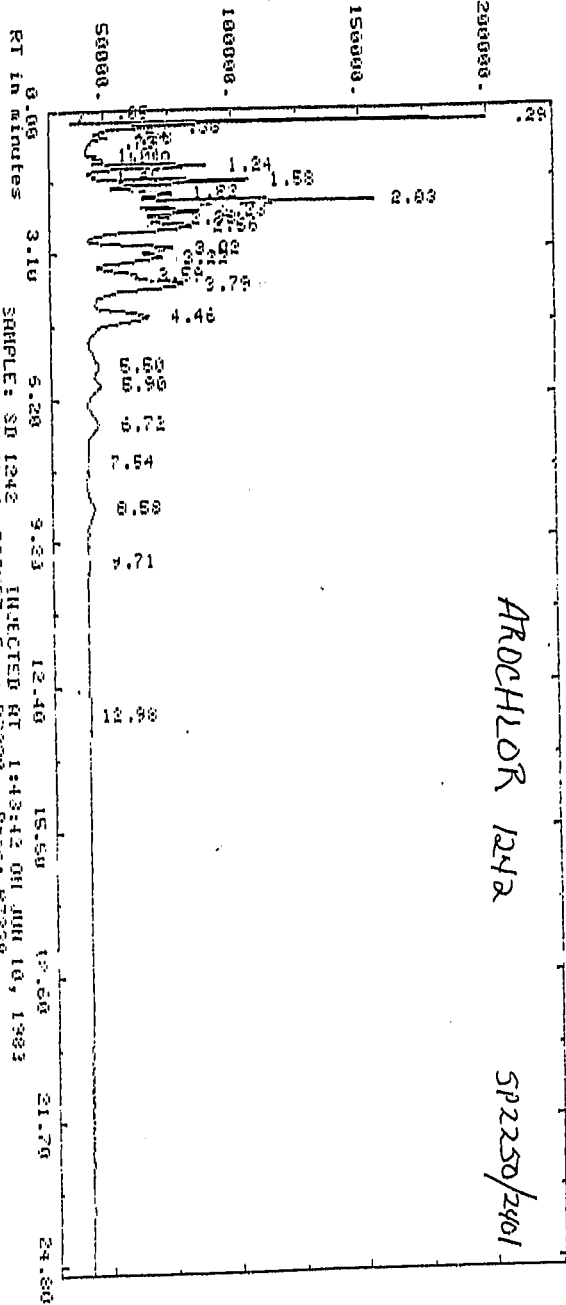
017529
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AMPLITUDE x.25 uV-seconds (Enlarged x. 1.01)



017530

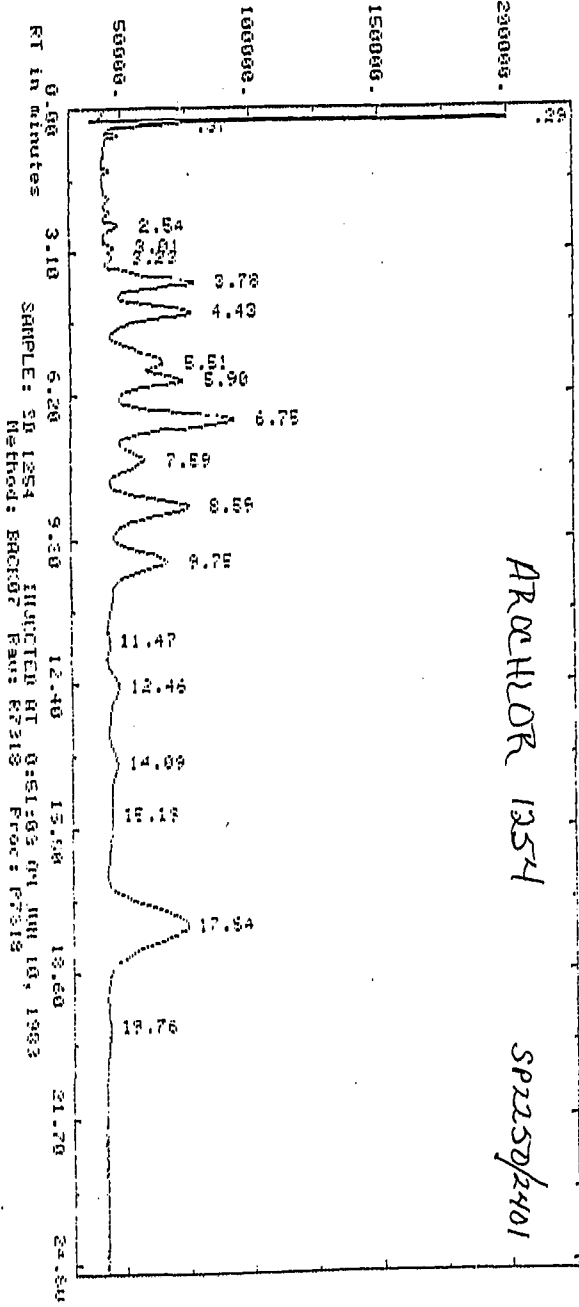
AMPLITUDE x.25 UV-sec. (Enlarged x 1.07)



SAMPLE: SD 1242 INJECTED RT 1:43:42 ON JUN 10, 1983
Method: BROKER Raw: K1320 Proc: F1320

0017531

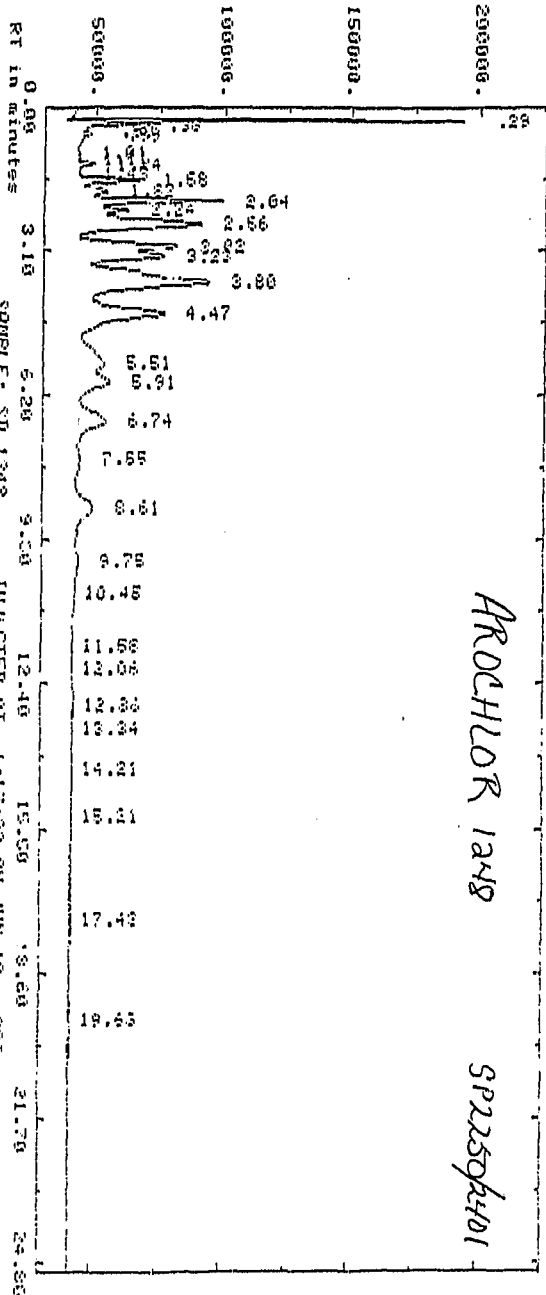
AMPLITUDE x.25 uV-seconds (Enlarge. x 1.28)



SAMPLE: 50 1254 INJECTED RT 0:51:03 ON 10/10/1983
Method: BACKOP Pao: K7318 Proc: P7318

017532

AMPLITUDE x.25 uV-seconds (Enlarged x .91)



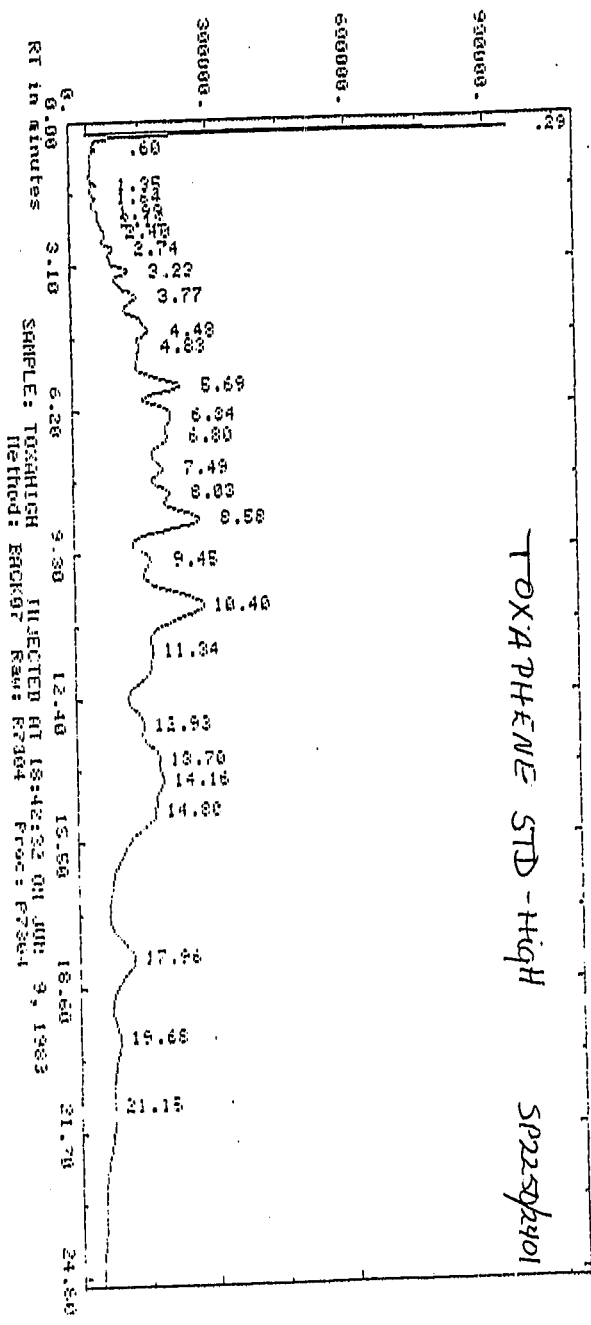
SAMPLE: SD 1248 INJECTED AT 1:17:22 PM JUN 10, 1983
 Method: BROCKOY Recd: R7319 Proc: P7319

AROHOR 1248

SP22504101

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DETECTION LIMIT SUMMARY FOR
VOA OF HAZARDOUS SUBSTANCE LIST COMPOUNDS

Mead CompuChem®

Compound I.D.	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation ng on-column
Bromochloromethane (IS)				
Chloroethane	5	2.5	5	1
Vinyl Chloride	5	2.5	5	1
Chloroethane	5	2.5	5	1
Bromomethane	5	2.5	5	2
Acrolein	100	50	100	48
Acrylonitrile	100	50	100	36
Methylene Chloride	5	2.5	5	2
Trichlorofluoromethane	5	2.5	5	1
1,1-Dichloroethylene	5	2.5	5	2
1,1-Dichloroethane	5	2.5	5	3
1,2-Trans-Dichloroethylene	5	2.5	5	4
Chloroform	5	2.5	5	3
1,2-Dichloroethane	5	2.5	5	4
1,1,1-Trichloroethane	5	2.5	5	2
Carbon tetrachloride	5	2.5	5	2
1,1-Dibromochloromethane	5	2.5	5	3
1,4-Dichlorobutane (IS)				
1,2-Dichloropropane	5	2.5	5	4
trans-1,3-Dichloropropylene	5	2.5	5	1
Trichloroethylene	5	2.5	5	2
Benzene	5	2.5	5	4
Cis-1,3-Dichloropropene	10	5.0	10	2
1,1,2-Trichloroethane	5	2.5	5	11
1,1,2-Dibromochloromethane	5	2.5	5	3
Chloroform	5	2.5	5	2
1,1,2,2-Tetrachloroethylene	5	2.5	5	1
1,1,2,2-Tetrachloroethane	5	2.5	5	1
Toluene	5	2.5	5	1
Chlorobenzene	5	2.5	5	1
Ethylbenzene	5	2.5	5	1
2-Chloroethyl vinyl ether	5	2.5	5	1
1,4-1,2 Dichloroethane (Surr.)				
1,1,1- Benzene (Int.Std.)				
1,1,1- toluene (Surr.)				
Acetone	100	50	100	19
2-Butanone	200	100	200	8
4-Methyl-2-Pentanone	100	50	100	30
2-Hexanone	100	50	100	13
Carbon disulfide	10	5	10	1017535
Vinyl acetate	10	5	10	5
Styrene	5	2.5	5	2
1,1-Dichloroethylene	5	2.5	5	2

*Estimated MDL
**3-Sigma DL

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DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

Mead CompuChem®

Compound I.D.	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
43-PHENOL (IS)	20	400	10	
N-NITROSODIMETHYLAMINE	20	400	10	3
PHENOL	20	400	10	4
ANILINE	20	400	10	10
BIS(2-CHLOROETHYL)ETHER	20	400	10	6
2-CHLOROPHENOL	20	400	10	4
1,3-DICHLOROBENZENE	20	400	10	5
1,4-DICHLOROBENZENE	20	400	10	4
1,2-DICHLOROBENZENE	20	400	10	4
BENZYL ALCOHOL	40	800	20	4
BIS(2-CHLOROISOPROPYL)ETHER	40	800	20	8
2-METHYLPHENOL	20	400	10	3
HEXACHLOROETHANE	20	400	10	4
4-METHYLPHENOL	20	400	10	3
2-FLUOROPHENOL (Surr.)				
2-PENTAFLUOROPHENOL (Surr.)				
45-PHENOL (Surr)				
45-NITROBENZENE (Surr.)				
DECAFLUOROBIPHENYL (Surr.)				
2-FLUOROANILINE (Surr)				
2-FLUOROBIPHENYL (Surr)				
48- NAPHTHALENE (IS)				
N-NITROSO-DI-N-PROPYLAMINE	40	800	20	8
NITROBENZENE	20	400	10	4
ISOPHORONE	20	400	10	3
2-NITROPHENOL	40	800	20	2
2,4-DIMETHYLPHENOL	20	400	10	2
BIS(2-CHLOROETHOXY)METHANE	40	800	20	6
2,4-DICHLOROPHENOL	20	400	10	5
1,2,4-TRICHLOROBENZENE	20	400	10	5
4-CHLOROANILINE	100	2000	100	27
BENZOIC ACID	200	4000	100	10
HEXACHLOROBUTADIENE	20	400	10	10
P-CHLORO-M-CRESOL	40	800	20	4
2-METHYLNAPHTHALENE	40	800	20	3
HEXACHLOROXYCLOPENTADIENE	20	400	10	7
2,4,6-TRICHLOROPHENOL	20	400	10	10
2-CHLORONAPHTHALENE	20	400	10	4
1-CENAPHTHYLENE	20	400	10	3
DIMETHYLPHTHALATE	20	400	10	6
NAPHTHALENE	20	400	10	5
2,6-DINITROTOLUENE	40	800	20	4

Estimated MDL

**3-Sigma DL

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DETECTION LIMIT SUMMARY FOR
SEMIVOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem®			
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
2,4-DINITROTOLUENE	40	800	20	8
2-NITROANILINE	200	4000	100	19
3-NITROANILINE	200	4000	100	9
DIBENZOFURAN	20	400	10	3
4-NITROANILINE	200	4000	100	5
2,4,5-TRICHLOROPHENOL	200	4000	100	5
¹⁰ PHENANTHRENE (IS)				
ACENAPHTHENE	20	400	10	4
2,4-DINITROPHENOL	100	2000	50	7
4-NITROPHENOL	100	4000	100	11
FLUORENE	20	400	10	4
4-CHLOROPHENYL PHENYL ETHER	20	400	10	5
DIETHYLPHTHALATE	20	400	10	4
4,6-DINITRO-O-CRESOL	40	800	20	2
DI-N-NYLAMINE (N-NITROSO)	20	400	10	14
4-MOPHENYL PHENYL ETHER	20	400	10	6
HEXACHLORO BENZENE	20	400	10	9
PHENANTHRENE	20	400	10	5
ANTHRACENE	20	400	10	5
FLUORANTHENE	20	400	10	9
PYRENE	20	400	10	6
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	40	800	20	3
DI-N-BUTYLPHTHALATE	20	400	10	13
PENTACHLOROPHENOL	40	800	20	10
¹² CHRYSENE (IS)				
BENZO(A)ANTHRACENE	20	400	10	10
FLUORENE	20	400	10	8
2,3-DICHLOROBENZIDINE	40	800	20	20
BENZYLPHTHALATE	20	400	10	4
1,5-(2-ETHYLHEXYL)PHTHALATE	20	400	10	16
DI-N-OCTYLPHTHALATE	20	400	10	6
BENZIDINE	80	1600	40	>20
BENZO(A)PYRENE	40	800	20	9
INDENO(1,2,3-C,D)PYRENE	40	800	20	10
DIBENZO(A,H)ANTHRACENE	40	800	20	8
BENZO(G,H,I)PERYLENE	40	800	20	8
BENZO(B)FLUORANTHENE				7
BENZO(K)FLUORANTHENE				>20

*Estimated MDL

**3-Sigma CL

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DETECTION LIMIT SUMMARY FOR
PESTICIDES HAZARDOUS SUBSTANCE LIST COMPOUNDS

Compound I.D.	Mead CompuChem®			
	Low Level Water Detection Limits (ug/l)*	Low Level Solid Detection Limits (ug/kg)*	Medium Level Detection Limits (ug/g)*	3 x Standard Deviation** ng on-column
ALPHA BHC	0.1	4.0	0.01	0.0019
BETA BHC	0.1	4.0	0.01	0.0030
DELTA BHC	0.1	4.0	0.01	0.0008
HEPTACHLOR EPOXIDE	0.1	4.0	0.01	0.0013
CHLORODANE	0.1	4.0	0.01	0.0008
DDE	0.1	4.0	0.01	0.0007
DDD	0.1	4.0	0.01	0.0062
DDT	0.1	4.0	0.01	0.0136
ENDOSULFAN SULFATE	0.1	4.0	0.01	0.0091
GAMMA BHC	0.1	4.0	0.01	0.0023
HEPTACHLOR	0.1	4.0	0.01	0.0027
GAMMA CHLORDANE	0.1	4.0	0.01	0.0025
ENDOSULFAN I	0.1	4.0	0.01	0.0039
ENDOSULFAN II	0.1	4.0	0.01	0.0126
ALDRIN	0.1	4.0	0.01	0.0032
DIELDRIN	0.1	4.0	0.01	0.0043
ENDRIN	0.1	4.0	0.01	0.0082
TCDD	0.002	0.08	0.002	

*Estimated MDL

**3-Sigma DL

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