CHEMTECH 110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6866 Fax: (201) 567-1333

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114313

DATA PACKAGE FOR

SEMIVOLATILE ORGANICS

PART II

ROY F. WESTON INC.
5 UNDERWOOD COURT
DELRAN, NJ 08075-1229

CONTRACT # EPA 68-S5-3002
CHEMTECH PROJECT # 1821CLP
ATTENTION MARIAN MURPHY

PART I VOLATILES
PART II SEMIVOLATILES
PART III INORGANICS

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME _____
CITY/STATE _____

CASE NO. 19210LP SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

CONTRACT NO. _____
SOW NO. _____

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II and SECTION III.)

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not number)	—	—	—	
2. SDG Case Narrative	01	01	✓	
3. Traffic Report	208	211	✓	
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II VOA)				
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - (Form I VOA)				
Tentatively Identified Compounds (Form I VOA-TIC)			—	—
Reconstructed total ion chromatograms (RIC) for each sample or sample extract				
For each sample:			—	—
Raw spectra and background-subtracted mass spectra of target compounds identified				
Mass spectra of all reported TICs with three best library matches			—	—
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI VOA)				
RICs and Quan Reports for all Standards				
Continuing Calibration (Form VII VOA)				
RICs and Quan Reports for all Standards				
d. Raw QC Data				
BFB				
Blank Data				
Matrix Spike Data				
Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
5. Semivolatiles Data				
a. QC Summary	-	-	-	
Surrogate Percent Recovery Summary (Form II SV)	04	04	✓	
MS/MSD Summary (Form III SV)	05	05	✓	
Method Blank Summary (Form IV SV)	06	06	✓	
GC/MS Instrument Performance Check (Form V SV)	07	14	✓	
Internal Standard Area and RT Summary (Form VIII SV)	15	20	✓	
b. Sample Data	22	93	✓	-
TCL Results (Form I SV-1, SV-2)			-	-
Tentatively Identified Compounds (Form I SV-TIC)			-	-
Reconstructed total ion chromatograms (RIC) for each sample, sample extract, standard blank, and spiked sample			-	-
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds			✓	-
Mass spectra of TICs with three best library matches			-	✓
GPC chromatograms (if GPC performed)			-	-
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)	94	98	✓	
RICs and Quan Reports for all Standards	-	-	-	
Continuing Calibration (Form VII SV-1, SV-2)	99	107, 110	✓	
RICs and Quan Reports for all Standards	111	117, 118	✓	
Semivolatile GPC Calibration Data-UV detector traces	-	-	-	
d. Raw QC Data				
DFTPP	179	182	✓	
Blank Data	183	188	✓	
Matrix Spike Data	189	192	✓	
Matrix Spike Duplicate Data	193	200	✓	
Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II PEST)				
MS/MSD Duplicate Summary (Form III PEST)				
Method Blank Summary (Form IV PEST)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
6. Pesticides (cont.)				
b. Sample Data				
TCL Results - Organic Analysis Data Sheet (Form I PEST)				
Chromatograms (Primary Column)				
Chromatograms from second GC column confirmation				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data				
Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VIII, PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts				
A print of retention times and corresponding peak areas or peak heights				
Pesticide GPC calibration data - UV detector traces				
d. Raw QC Data				
Blank Data				
Matrix Spike Data				
Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	202	206	✓	
Internal sample and sample extract transfer chain-of-custody records	-	-	-	
Screening records	-	-	-	
All instrument output, including strip charts from screening activities (describe or list)	-	-	-	
_____	-	-	-	
_____	-	-	-	
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments -)	-	-	-	
Chain-of-Custody Records	208	211	✓	
Sample Tags	216	216	✓	
Sample Log-In Sheet (Lab & DCl)	212	215	✓	
SDG Cover Sheet	-	-	-	
Miscellaneous Shipping/Receiving Records (describe or list)	-	-	-	
_____	-	-	-	
_____	-	-	-	
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
_____	-	-	-	
_____	-	-	-	
10. Other Records (describe or list)				
Telephone Communication Log	-	-	-	
_____	-	-	-	
_____	-	-	-	

11. Comments: _____

Completed by: Raythattha K.L. RAYTHATTHA K.L. 06/17/96
(CLP Lab) (Signature) (Printed Name/Title) (Date)

Audited by: _____ _____ _____
(EPA) (Signature) (Printed Name/Title) (Date)

CHEMTECH

CASE NARRATIVE

US EPA (WESTON)
SATA CONTRACT # 68-S5-3002
Chemtech # 1821CLP

A. Number of Samples and Date of Sample Receipt:
13 aqueous samples were delivered to the laboratory intact on 6/1/96.

B. Parameters:
Tests requested on the Chain of Custody were Volatile Organics. Semivolatile Organics, Metals and Cyanide. This data package contains Metals and Cyanide results.

C. Analytical Techniques:
The analysis of Semivolatile Organics is based on CLP SOW OLC01.0 Method ILCO1.0.

D. QA/ QC Samples:
The Surrogate Recovery of each sample is found in Form II-D. The Internal Area counts for each sample is found on Form VIII-B. and Initial Calibration results are found on Form VI-B. Continuing Calibrations information is located on Form VII-B. All Blank Summaries are located on Form IV-B. The Instrument Performance Check is on Form V. The Matrix Spike and Matrix Spike Duplicate were analyzed and are reported on Form III-D

Surrogate recoveries were within QC limits. Internal Standard Area Counts were within QC limits.

MS/ MSD Recoveries were within QC limits as were % RPDs.

No difficulties were encountered with the analysis of these samples.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature _____ Name: Divyajit Mehta

Date: 6/17/96 Title: Lab Manager

5.

Semivolatiles Data

(a)

Semivolatiles Data

QC Summary

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 182ICLP Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (PHL) #	S4 (2FP) #	S5 0 #	S6 (TBP) #	#	#	TOT OUT
01	SBLK01	73	79	81	80	62	71			
02	BLANK SPIKE	77	75	95	93	64	78			
03	RW-09	57	65	50	43	59	60			
04	RW-09MS	52	58	63	60	57	66			
05	RW-09MSD	41	56	43	32	56	66			
06	RW-300	58	67	59	55	60	69			
07	RW-11	65	69	72	66	65	75			
08	RW-57	64	73	70	66	64	76			
09	RW-28	66	70	64	61	62	72			
10	RW-400	64	73	73	69	65	78			
11	RW-29	57	65	66	61	60	73			
12	RW-66	66	67	72	69	62	67			
13	RW-27	64	67	70	65	57	63			
14	FB	57	64	56	48	63	70			
15	LCMS	74	75	77	85	62	72			
16	RW-13	75	80	88	92	65	81			
17	RW-04	75	79	77	77	66	77			
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-112)
S2 (FBP) = 2-Fluorobiphenyl	(42-110)
S3 (PHL) = Phenol-d5	(17-113)
S4 (2FP) = 2-Fluorophenol	(16-110)
S5 0 = Terphenyl-d14	(24-140)
S6 (TBP) = 2,4,6-Tribromophenol	(18-126)

000004

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1521CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: RW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	40	0	26	65	(44-120)
bis(2-Chloroethyl)ether	20	0	19	95	(64-110)
2-Chlorophenol	40	0	26	65	(58-110)
N-Nitroso-di-n-propylamine	20	0	14	70	(34-102)
Hexachloroethane	20	0	13	65	(32-77)
Isophorone	20	0	14	70	(49-110)
1.2.4-Trichlorobenzene	20	0	17	85	(44-96)
Naphthalene	20	0	17	85	(56-160)
4-Chloroaniline	20	0	9	47	(35-98)
2.4.6-Trichlorophenol	40	0	27	68	(65-110)
2.4-Dinitrotoluene	20	0	14	70	(61-140)

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC. LIMITS		
Diethylphthalate	20	18	90	(76-104)		
N-Nitrosodiphnethylamine	20	12	60	(35-120)		
Hexachlorobenzene	20	19	95	(30-95)		
Benzo[a]pyrene	20	17	85	(55-92		

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Comments: _____

_____

4B

EPA SAMPLE NO.

SBLK01

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S7998.D Lab Sample ID: SBLK01

Instrument ID: HP5971 Date Extracted: 6/4/96

Matrix: (soil/water) WATER Date Analyzed: 6/5/96

Level: (low/med) _____ Time Analyzed: 1759

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLANK SPIKE	B.SPIKE	S7999.D	06/05/96
02	RW-09	O5966	S8000.D	06/05/96
03	RW-09MS	O5968MS	S8001.D	06/05/96
04	RW-09MSD	O5968SD	S8002.D	06/05/96
05	RW-300	O5970	S8004.D	06/05/96
06	RW-11	O5971	S8005.D	06/05/96
07	RW-57	O5972	S8006.D	06/06/96
08	RW-28	O5973	S8007.D	06/06/96
09	RW-400	O5974	S8008.D	06/06/96
10	RW-29	O5975	S8009.D	06/06/96
11	RW-66	O5976	S8013.D	06/06/96
12	RW-27	O5977	S8014.D	06/06/96
13	FB	O5979	S8016.D	06/06/96
14	LCMS	LCS	S8024.D	06/07/96
15	RW-13	O5969	S8025.D	06/07/96
16	RW-04	O5978	S8026.D	06/07/96
17				
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19				
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26				
27				
28				
29				
30				

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S7987.D DFTPP Injection Date: 6/4/96

Instrument ID: HP5971A DFTPP Injection Time: 1728

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	48.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 0.75% of mass 198	1.2
441	Present, but less than mass 443	6.2
442	40.0 - 110.0% of mass 198	45.7
443	15.0 - 24.0% of mass 442	8.7 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD005	SSTD005	S7988.D	6/4/96	1749
02	SSTD010	SSTD010	S7989.D	6/4/96	1841
03	SSTD020	SSTD020	S7990.D	6/4/96	1933
04	SSTD050	SSTD050	S7991.D	6/4/96	2024
05	SSTD080	SSTD080	S7992.D	6/4/96	2116
06					
07					
08					
09					
10					
11					
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13					
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15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S7987.D DFTPP Injection Date: 6/4/96

Instrument ID: HP5971A DFTPP Injection Time: 1728

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	48.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.8
365	Greater than 0.75% of mass 198	1.2
441	Present, but less than mass 443	6.2
442	40.0 - 110.0% of mass 198	45.7
443	15.0 - 24.0% of mass 442	8.7 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	S7990.D	6/4/96	1933
02	SSTD050	SSTD050	S7991.D	6/4/96	2024
03	SSTD080	SSTD0801	S7992.D	6/4/96	2116
04	SSTD100	SSTD100	S7993.D	6/4/96	2207
05	SSTD120	SSTD120	S7994.D	6/4/96	2259
06					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S7995.D DFTPP Injection Date: 6/5/96

Instrument ID: HP5971A DFTPP Injection Time: 1600

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.1
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	54.5
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	46.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 0.75% of mass 198	1.6
441	Present, but less than mass 443	11.4
442	40.0 - 110.0% of mass 198	81.1
443	15.0 - 24.0% of mass 442	16.0 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD0202	S7996.D	6/5/96	1619
02	SBLK01	SBLK01	S7998.D	6/5/96	1759
03	BLANK SPIKE	B.SPIKE	S7999.D	6/5/96	1849
04	RW-09	O5966	S8000.D	6/5/96	1939
05	RW-09MS	O5968MS	S8001.D	6/5/96	2029
06	RW-09MSD	O5968SD	S8002.D	6/5/96	2119
07	RW-300	O5970	S8004.D	6/5/96	2258
08	RW-11	O5971	S8005.D	6/5/96	2347
09	RW-57	O5972	S8006.D	6/6/96	0037
10	RW-28	O5973	S8007.D	6/6/96	0126
11	RW-400	O5974	S8008.D	6/6/96	0215
12	RW-29	O5975'	S8009.D	6/6/96	0304
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14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S7995.D DFTPP Injection Date: 6/5/96

Instrument ID: HP5971A DFTPP Injection Time: 1600

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.1
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	54.5
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	46.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 0.75% of mass 198	1.6
441	Present, but less than mass 443	11.4
442	40.0 - 110.0% of mass 198	81.1
443	15.0 - 24.0% of mass 442	16.0 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	SSTD0802	S7997.D	6/5/96	1709
02					
03					
04					
05					
06					
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22					

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S8010.D DFTPP Injection Date: 6/6/96

Instrument ID: HP5971A DFTPP Injection Time: 0347

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	46.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.1
365	Greater than 0.75% of mass 198	1.5
441	Present, but less than mass 443	10.5
442	40.0 - 110.0% of mass 198	73.8
443	15.0 - 24.0% of mass 442	14.5 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD0203	S8011.D	6/6/96	0406
02	RW-66	O5976	S8013.D	6/6/96	0543
03	RW-27	O5977	S8014.D	6/6/96	0632
04	FB	O5979	S8016.D	6/6/96	0809
05					
06					
07					
08					
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S8010.D DFTPP Injection Date: 6/6/96

Instrument ID: HP5971A DFTPP Injection Time: 0347

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.6
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	46.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.1
365	Greater than 0.75% of mass 198	1.5
441	Present, but less than mass 443	10.5
442	40.0 - 110.0% of mass 198	73.8
443	15.0 - 24.0% of mass 442	14.5 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	SSTD0803	S8012.D	6/6/96	0455
02					
03					
04					
05					
06					
07					
08					
09					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S8020.D DFTPP Injection Date: 6/7/96

Instrument ID: HP5971A DFTPP Injection Time: 1719

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	49.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.5
365	Greater than 0.75% of mass 198	1.4
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	67.8
443	15.0 - 24.0% of mass 442	13.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD0204	S8021.D	6/7/96	1739
02	LCMS	LCS	S8024.D	6/7/96	2015
03	RW-13	O5969	S8025.D	6/7/96	2107
04	RW-04	O5978	S8026.D	6/7/96	2159
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06					
07					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: S8020.D DFTPP Injection Date: 6/7/96

Instrument ID: HP5971A DFTPP Injection Time: 1719

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	49.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	18.5
365	Greater than 0.75% of mass 198	1.4
441	Present, but less than mass 443	9.4
442	40.0 - 110.0% of mass 198	67.8
443	15.0 - 24.0% of mass 442	13.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	SSTD0804	S8022.D	6/7/96	1831
02					
03					
04					
05					
06					
07					
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S7996.D Date Analyzed: 6/5/96

Instrument ID: HP5971A Time Analyzed: 1619

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	468225	7.11	1827602	10.72	1187140	16.04
	UPPER LIMIT	655515	7.44	2558643	11.05	1661996	16.37
	LOWER LIMIT	280935	6.78	1096561	10.39	712284	15.71
	EPA SAMPLE NO.						
01	SBLK01	492463	7.09	1985794	10.70	1255333	16.03
02	BLANK SPIKE	427635	7.09	1711338	10.70	1175479	16.03
03	RW-09	493349	7.09	1942449	10.70	1221714	16.03
04	RW-09	424330	7.09	1721726	10.70	1168427	16.03
05	RW-09MSD	449890	7.09	1792619	10.70	1199195	16.03
06	RW-300	504639	7.09	2035201	10.70	1244886	16.03
07	RW-11	481531	7.09	1922532	10.70	1216784	16.03
08	RW-57	491684	7.09	1979958	10.70	1203279	16.03
09	RW-28	482008	7.09	1898765	10.70	1203633	16.03
10	RW-400	454924	7.09	1903595	10.70	1161240	16.03
11	RW-29	481920	7.09	1949071	10.70	1218321	16.03
12							
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21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

000015

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S7996.D Date Analyzed: 6/5/96

Instrument ID: HP5971A Time Analyzed: 1619

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1703015	20.47	1495453	28.62	1519895	32.68
	UPPER LIMIT	2384221	20.80	2093634	28.95	2127853	33.01
	LOWER LIMIT	1021809	20.14	897272	28.29	911937	32.35
	EPA SAMPLE NO.						
01	SBLK01	1748524	20.46	1671120	28.60	1628258	32.66
02	BLANK SPIKE	1489528	20.47	1530362	28.59	1505452	32.66
03	RW-09	1709430	20.46	1626216	28.58	1568067	32.65
04	RW-09	1512603	20.47	1545804	28.59	1523617	32.66
05	RW-09MSD	1594678	20.47	1616315	28.59	1619440	32.66
06	RW-300	1786781	20.45	1620169	28.58	1674669	32.65
07	RW-11	1713990	20.45	1536373	28.59	1556549	32.65
08	RW-57	1779947	20.45	1604702	28.58	1660284	32.65
09	RW-28	1711974	20.45	1507991	28.59	1467164	32.65
10	RW-400	1659149	20.45	1552399	28.58	1604953	32.65
11	RW-29	1698077	20.45	1646740	28.58	1652368	32.65
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

00016

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S8011.D Date Analyzed: 6/6/96

Instrument ID: HP5971A Time Analyzed: 0406

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	495759	7.09	1848282	10.71	1182125	16.03
	UPPER LIMIT	694063	7.42	2587595	11.04	1654975	16.36
	LOWER LIMIT	297455	6.76	1108969	10.38	709275	15.70
	EPA SAMPLE NO.						
01	RW-66	494505	7.09	1934622	10.70	1222951	16.03
02	RW-27	493080	7.09	1933849	10.70	1239524	16.03
03	FB	522512	7.09	2063684	10.70	1231052	16.03
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

000017

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S8011.D Date Analyzed: 6/6/96

Instrument ID: HP5971A Time Analyzed: 0406

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1823119	20.47	1554624	28.61	1620033	32.66
	UPPER LIMIT	2552367	20.80	2176474	28.94	2268046	32.99
	LOWER LIMIT	1093871	20.14	932774	28.28	972020	32.33
	EPA SAMPLE NO.						
01	RW-66	1729236	20.45	1669143	28.58	1574038	32.65
02	RW-27	1836835	20.45	1712079	28.58	1568726	32.65
03	FB	1920168	20.45	1732552	28.58	1702736	32.65
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S8021.D Date Analyzed: 6/7/96

Instrument ID: HP5971A Time Analyzed: 1739

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	437191	7.11	1679364	10.72	1111222	16.04
	UPPER LIMIT	612067	7.44	2351110	11.05	1555711	16.37
	LOWER LIMIT	262315	6.78	1007618	10.39	666733	15.71
	EPA SAMPLE NO.						
01	LCMS	480005	7.09	1842077	10.71	1230474	16.03
02	RW-13	489503	7.09	1999254	10.70	1234941	16.03
03	RW-04	486714	7.09	1879070	10.70	1174503	16.03
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

60019

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): S8021.D Date Analyzed: 6/7/96

Instrument ID: HP5971A Time Analyzed: 1739

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1609319	20.47	1378139	28.62	1381854	32.68
	UPPER LIMIT	2253047	20.80	1929395	28.95	1934596	33.01
	LOWER LIMIT	965591	20.14	826883	28.29	829112	32.35
	EPA SAMPLE NO.						
01	LCMS	1823107	20.46	1685925	28.59	1547327	32.66
02	RW-13	1744450	20.46	1624949	28.60	1607916	32.65
03	RW-04	1744500	20.45	1538070	28.58	1552441	32.65
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20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPE R LIMI = +0.33 minutes of internal standard RT
RT LOW R LIMI = -0.33 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

000020

(b)

Semivolatiles Data

Sample Data

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5966

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8000.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5966

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8000.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-09

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5966

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8000.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
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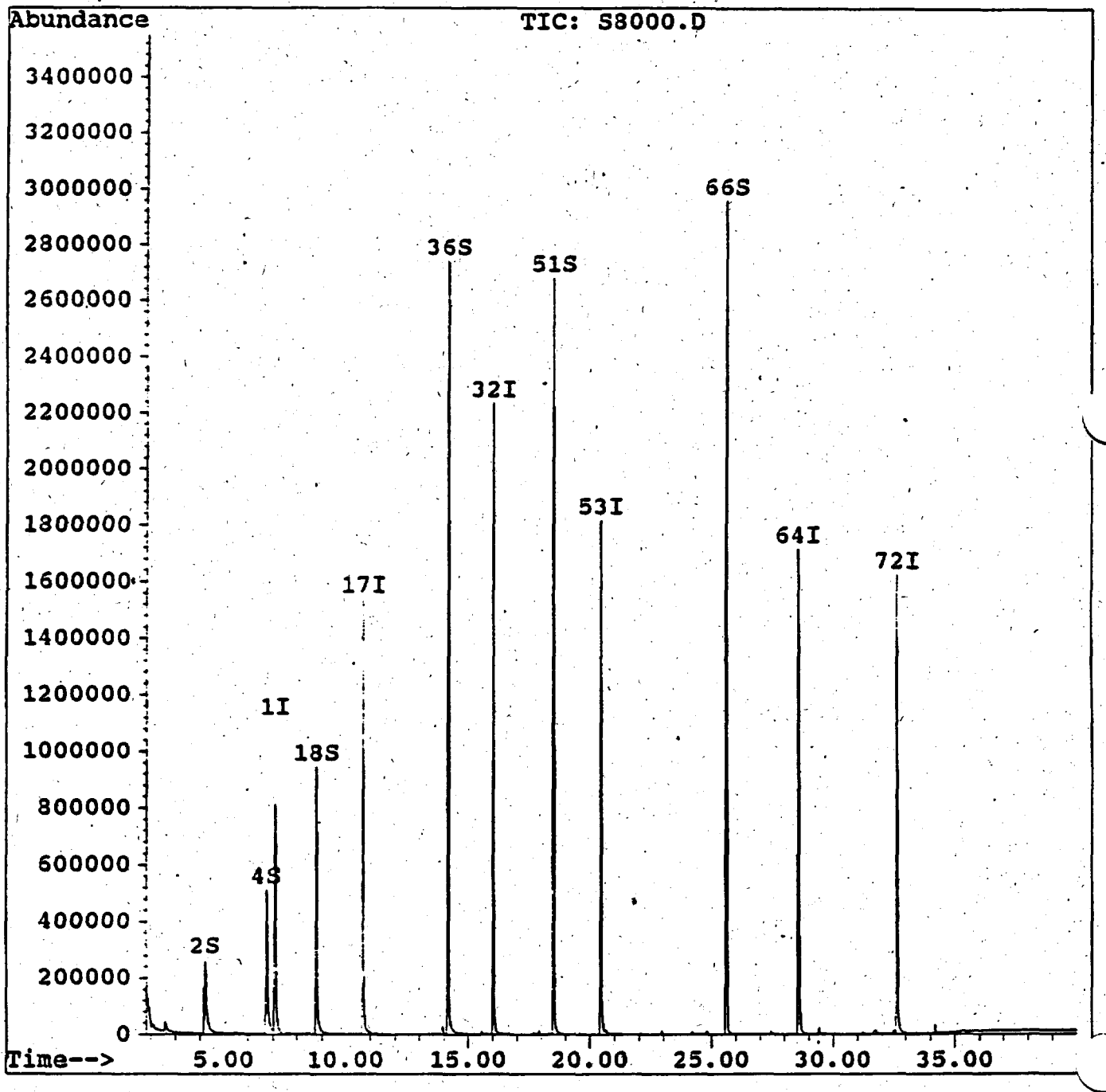
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8000.D
Acq Time : 5 Jun 96 7:39 pm
Sample : 5966-QB60
Misc :
Quant Time: Jun 10 13:00 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



AR320605

00025

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8000.D
Acq Time : 5 Jun 96 7:39 pm
Sample : 5966-QB60
Misc :
Quant Time: Jun 10 13:00 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	493349	20.00	ng/uL	-0.02
17) Naphthalene-d8	10.70	136	1942449	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1221714	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.46	188	1709430	20.00	ng/uL	0.00
64) Chrysene-d12	28.58	240	1626216	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1568067	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	574390	17.21	ng/uL	
4) Phenol-d5	6.74	99	951284	19.81	ng/uL	
18) Nitrobenzene-d5	8.78	82	991772	22.95	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2171895	26.09	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	910264	71.82	ng/uL	
66) Terphenyl-d14	25.62	244	2389769	23.57	ng/uL	
Target Compounds						Qvalue

AR320606

004026

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8000.D
Acq Time : 5 Jun 96 7:39 pm
Sample : 5966-QB60
Misc :

Operator:
Inst : BNA-GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320607

001027

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-13

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5969

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8025.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

EPA SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-13

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 05969

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8025.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-13

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5969

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8025.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
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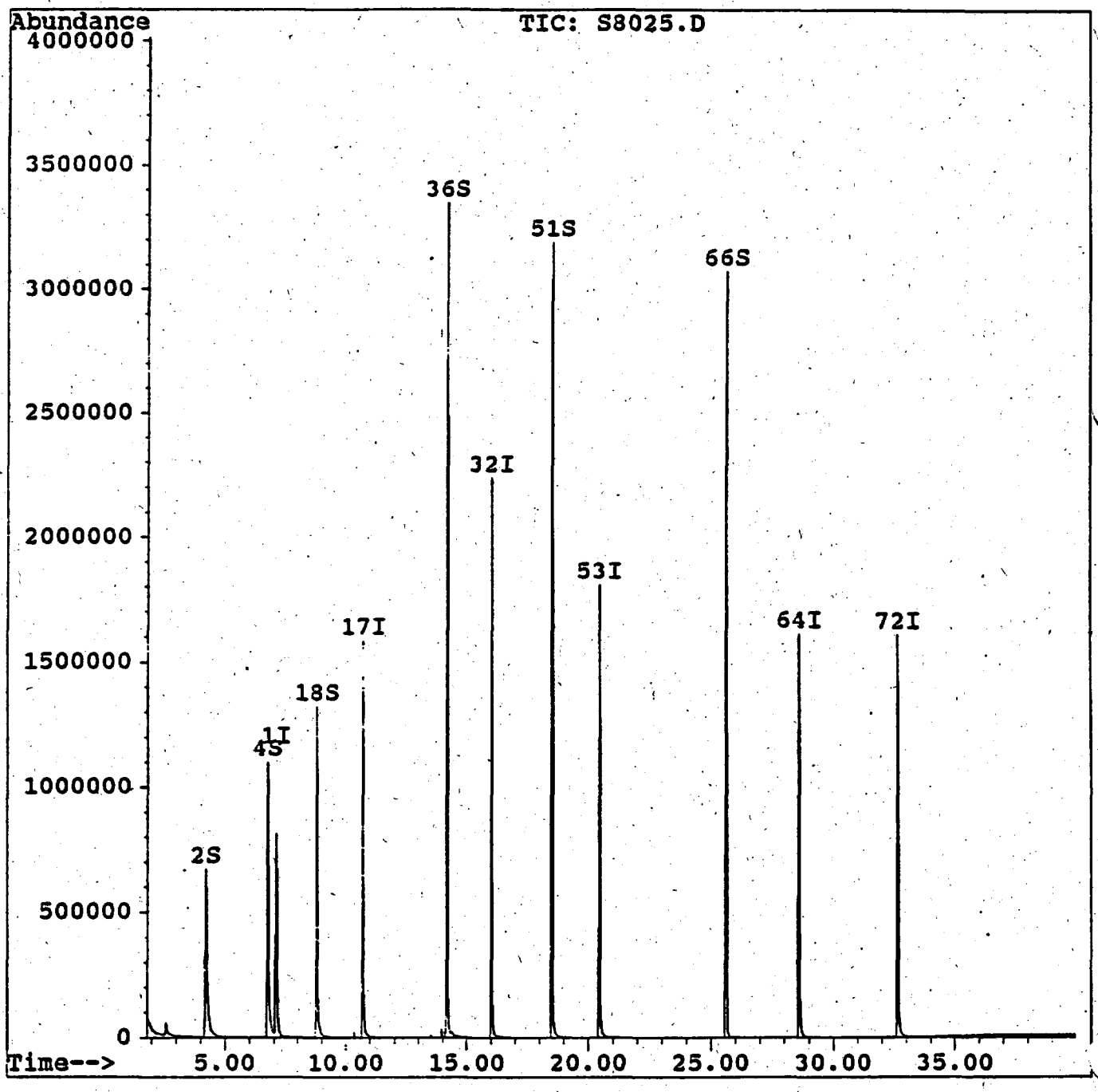
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8025.D
Acq Time : 7 Jun 96 9:07 pm
Sample : 5969-QB-60
Misc :
Quant Time: Jun 10 15:01 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:58:58 1996
Response via : Single Level Calibration



AR320611

00031

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8025.D
Acq Time : 7 Jun 96 9:07 pm
Sample : 5969-QB-60
Misc :
Quant Time: Jun 10 15:01 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:58:58 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	489503	20.00	ng/uL	-0.02
17) Naphthalene-d8	10.70	136	1999254	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1234941	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.46	188	1744450	20.00	ng/uL	0.00
64) Chrysene-d12	28.60	240	1624949	20.00	ng/uL	-0.02
72) Perylene-d12	32.65	264	1607916	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	1258543	36.76	ng/uL	
4) Phenol-d5	6.74	99	1773255	35.39	ng/uL	
18) Nitrobenzene-d5	8.78	82	1347119	29.85	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2708557	32.13	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1179945	96.95	ng/uL	
66) Terphenyl-d14	25.62	244	2650550	26.18	ng/uL	
Target Compounds						Qvalue

AR320612

u00032

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8025.D
Acq Time : 7 Jun 96 9:07 pm
Sample : 5969-QB-60
Misc :

Operator:
Inst : BNA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320613

004033

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-300

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5970

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8004.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-300

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5970

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8004.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

000035

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-300

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5970

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8004.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
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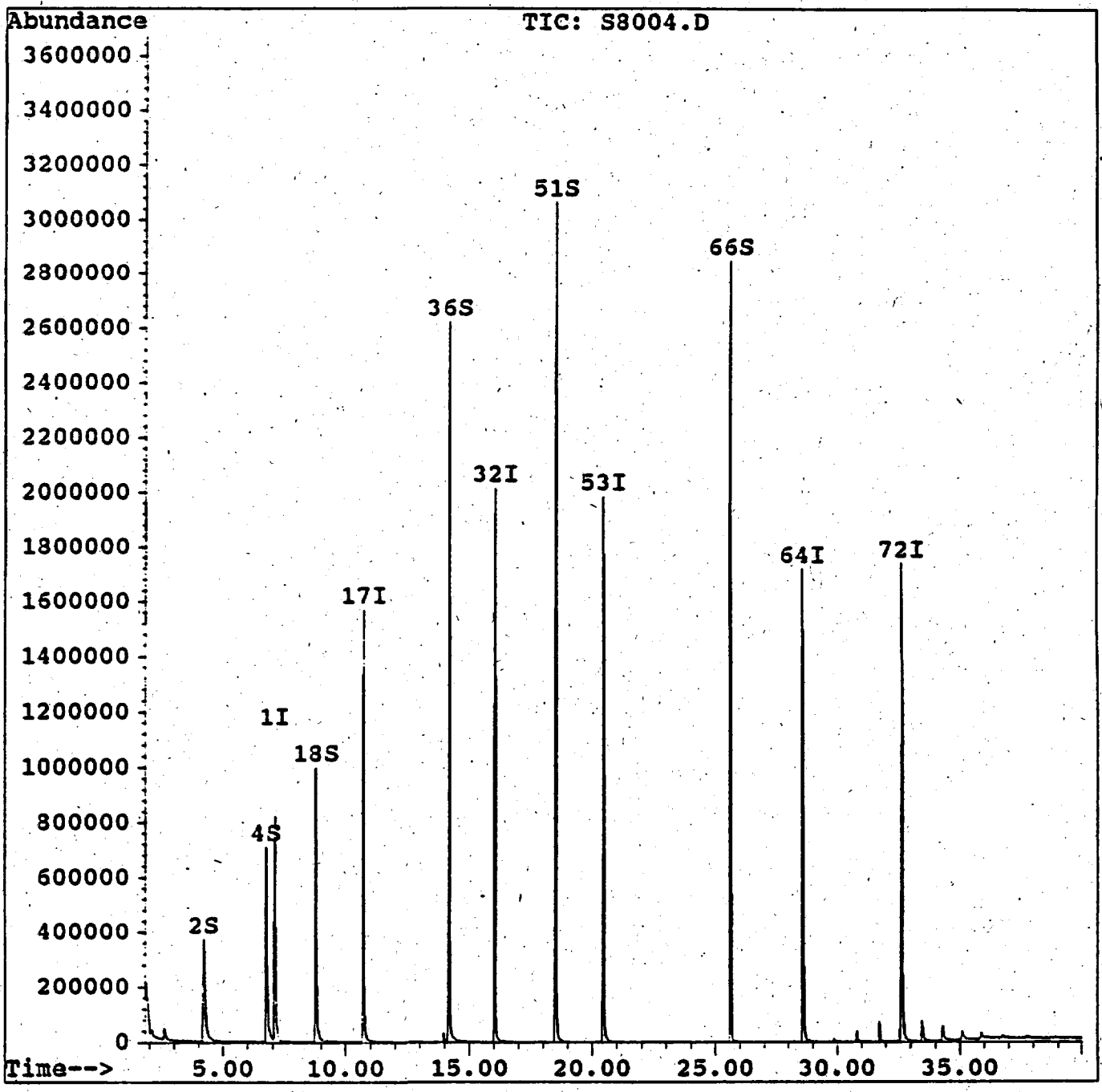
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8004.D
Acq Time : 5 Jun 96 10:58 pm
Sample : 5970-QB60
Misc :
Quant Time: Jun 10 13:07 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



000037

AR320617

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8004.D
Acq Time : 5 Jun 96 10:58 pm
Sample : 5970-QB60
Misc :
Quant Time: Jun 10 13:07 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	504639	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	2035201	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1244886	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1786781	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1620169	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1674669	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	752804	22.05	ng/uL	
4) Phenol-d5	6.74	99	1166814	23.75	ng/uL	
18) Nitrobenzene-d5	8.78	82	1047988	23.15	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2265624	26.70	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1076532	83.36	ng/uL	
66) Terphenyl-d14	25.63	244	2417520	23.93	ng/uL	
Target Compounds						Qvalue

AR320618

004038

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8004.D
Acq Time : 5 Jun 96 10:58 pm
Sample : 5970-QB60
Misc :

Operator:
Inst : BNA-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320619

000039

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-11

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 05971

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8005.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-11

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 05971

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8005.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

000041

1F

EPA SAMPLE NO

RW-11

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5971

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8005.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
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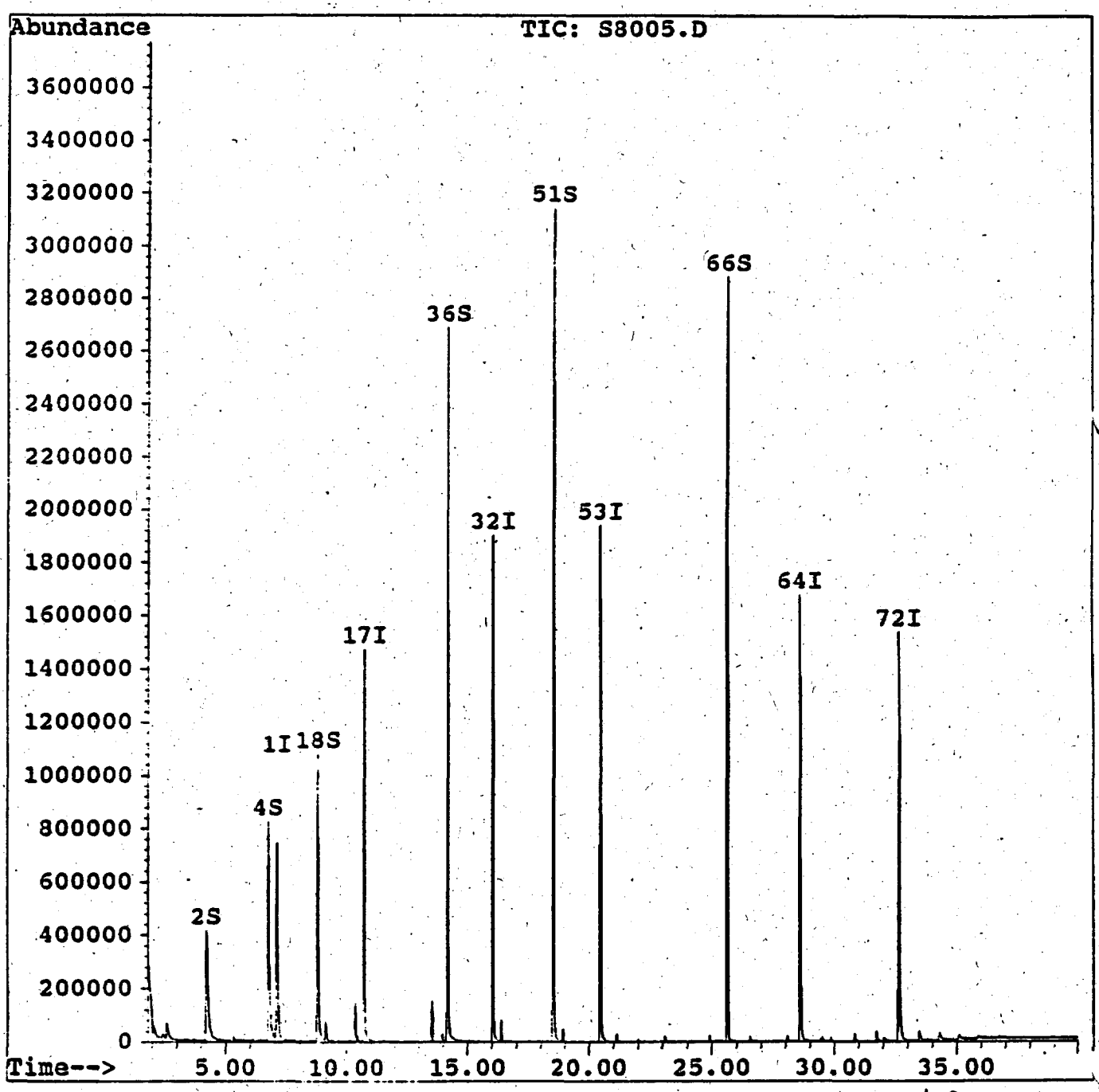
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8005.D
Acq Time : 5 Jun 96 11:47 pm
Sample : 5971-QB60
Misc :
Quant Time: Jun 10 13:10 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



001043

AR320623

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8005.D
Acq Time : 5 Jun 96 11:47 pm
Sample : 5971-QB60
Misc :
Quant Time: Jun 10 13:10 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	481531	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1922532	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1216784	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1713990	20.00	ng/uL	-0.02
64) Chrysene-d12	28.59	240	1536373	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1556549	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.19	112	859871	26.39	ng/uL	
4) Phenol-d5	6.74	99	1343186	28.65	ng/uL	
18) Nitrobenzene-d5	8.78	82	1107184	25.89	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2287853	27.59	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1131608	89.65	ng/uL	
66) Terphenyl-d14	25.63	244	2476051	25.85	ng/uL	
Target Compounds						Qvalue

AR320624

001044

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8005.D
Acq Time : 5 Jun 96 11:47 pm
Sample : 5971-QB60
Misc :

Operator:
Inst : BNA-G S
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320625

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-57

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5972

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8006.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-57

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5972

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8006.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

00047

IF

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-57

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5972

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8006.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
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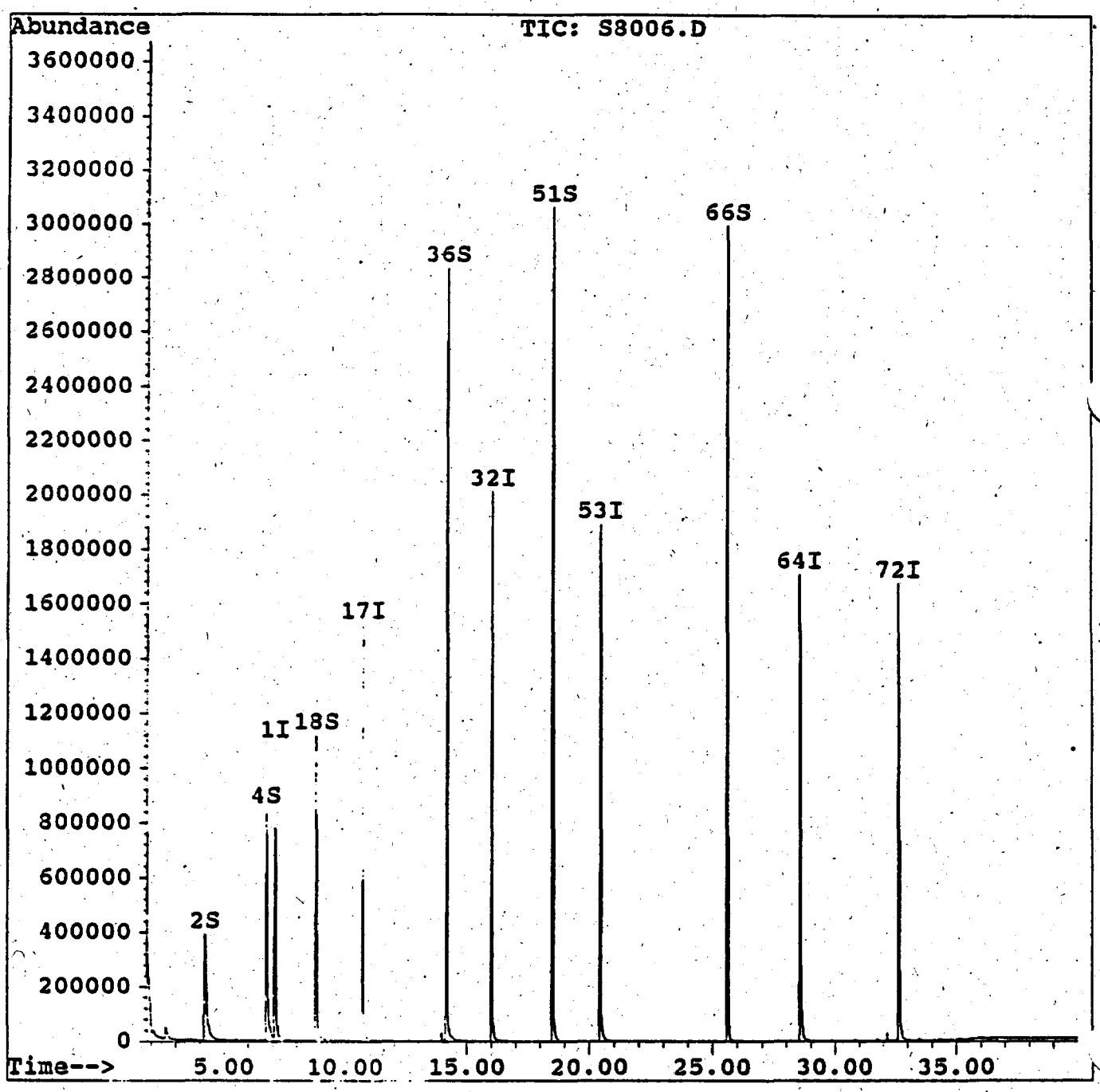
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8006.D
Acq Time : 6 Jun 96 12:37 am
Sample : 5972-QB60
Misc :
Quant Time: Jun 10 13:12 1996

Operator:
Inst : BNA-G[illegible]S
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



AR320629

00049

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8006.D
Acq Time : 6 Jun 96 12:37 am
Sample : 5972-QB60
Misc :
Quant Time: Jun 10 13:12 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	491684	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1979958	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1203279	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1779947	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1604702	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1660284	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	872290	26.22	ng/uL	
4) Phenol-d5	6.74	99	1346630	28.13	ng/uL	
18) Nitrobenzene-d5	8.78	82	1133917	25.75	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2386719	29.10	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1131716	90.66	ng/uL	
66) Terphenyl-d14	25.63	244	2545439	25.44	ng/uL	
Target Compounds						Qvalue

AR320630

00050

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8006.D
Acq Time : 6 Jun 96 12:37 am
Sample : 5972-QB60
Misc :

Operator:
Inst : BNA-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320631

60,051

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-28

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5973

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8007.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-28

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5973

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8007.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

IF

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: RW-28

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5973

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8007.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
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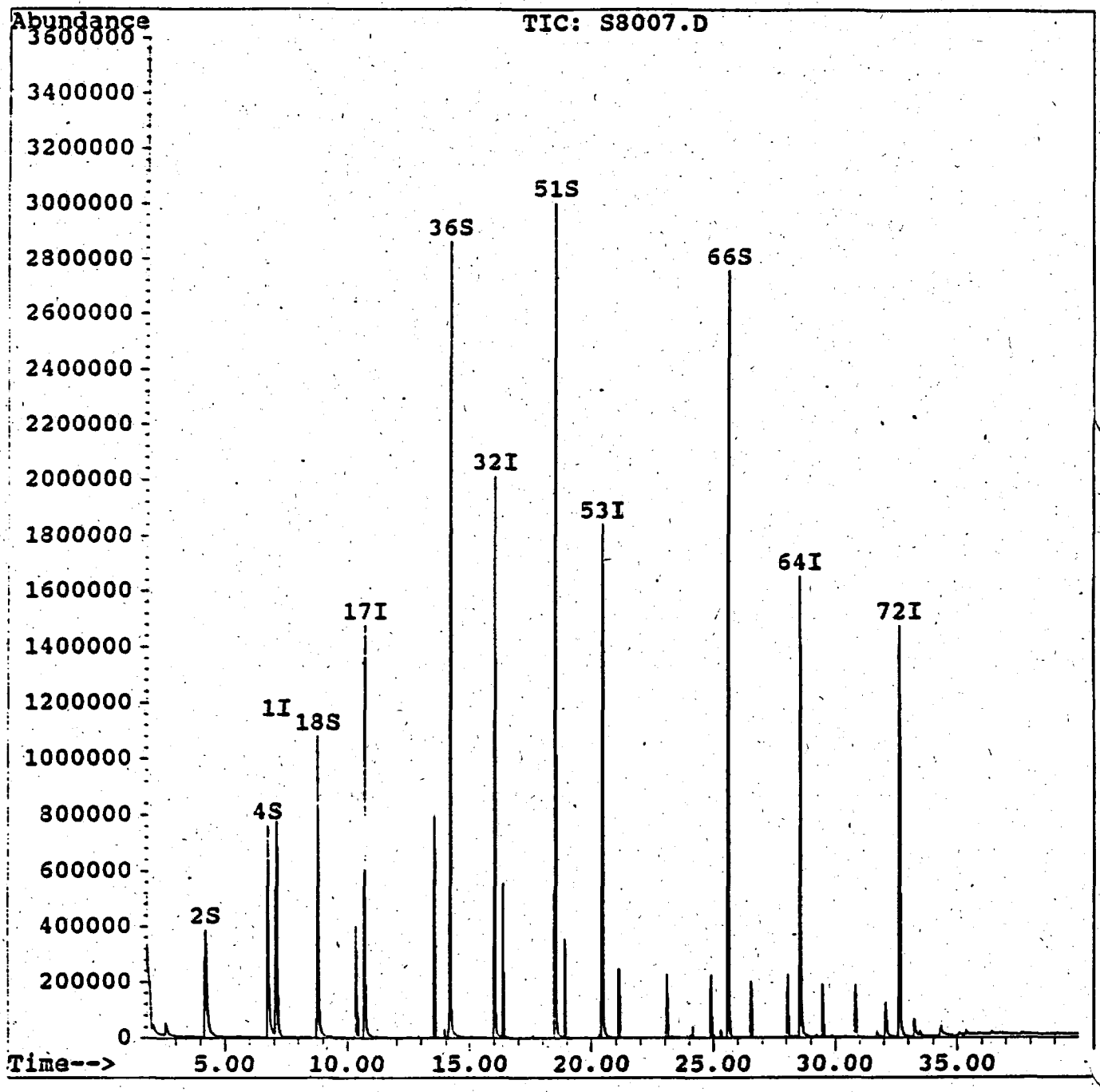
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8007.D
Acq Time : 6 Jun 96 1:26 am
Sample : 5973-QB60
Misc :
Quant Time: Jun 10 13:15 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



U01055

AR320635

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8007.D
Acq Time : 6 Jun 96 1:26 am
Sample : 5973-QB60
Misc :
Quant Time: Jun 10 13:15 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	482008	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1898765	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1203633	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1711974	20.00	ng/uL	-0.02
64) Chrysene-d12	28.59	240	1507991	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1467164	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	797484	24.45	ng/uL	
4) Phenol-d5	6.74	99	1201122	25.60	ng/uL	
18) Nitrobenzene-d5	8.78	82	1111678	26.32	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2294927	27.98	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1075937	86.17	ng/uL	
66) Terphenyl-d14	25.63	244	2348869	24.98	ng/uL	
Target Compounds						Qvalue

AR320636

001056

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8007.D
Acq Time : 6 Jun 96 1:26 am
Sample : 5973-QB60
Misc :

Operator:
Inst : BNA-C S
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320637

006057

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-400

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5974

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8008.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-400

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5974

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8008.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

000059

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-400

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5974

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8008.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
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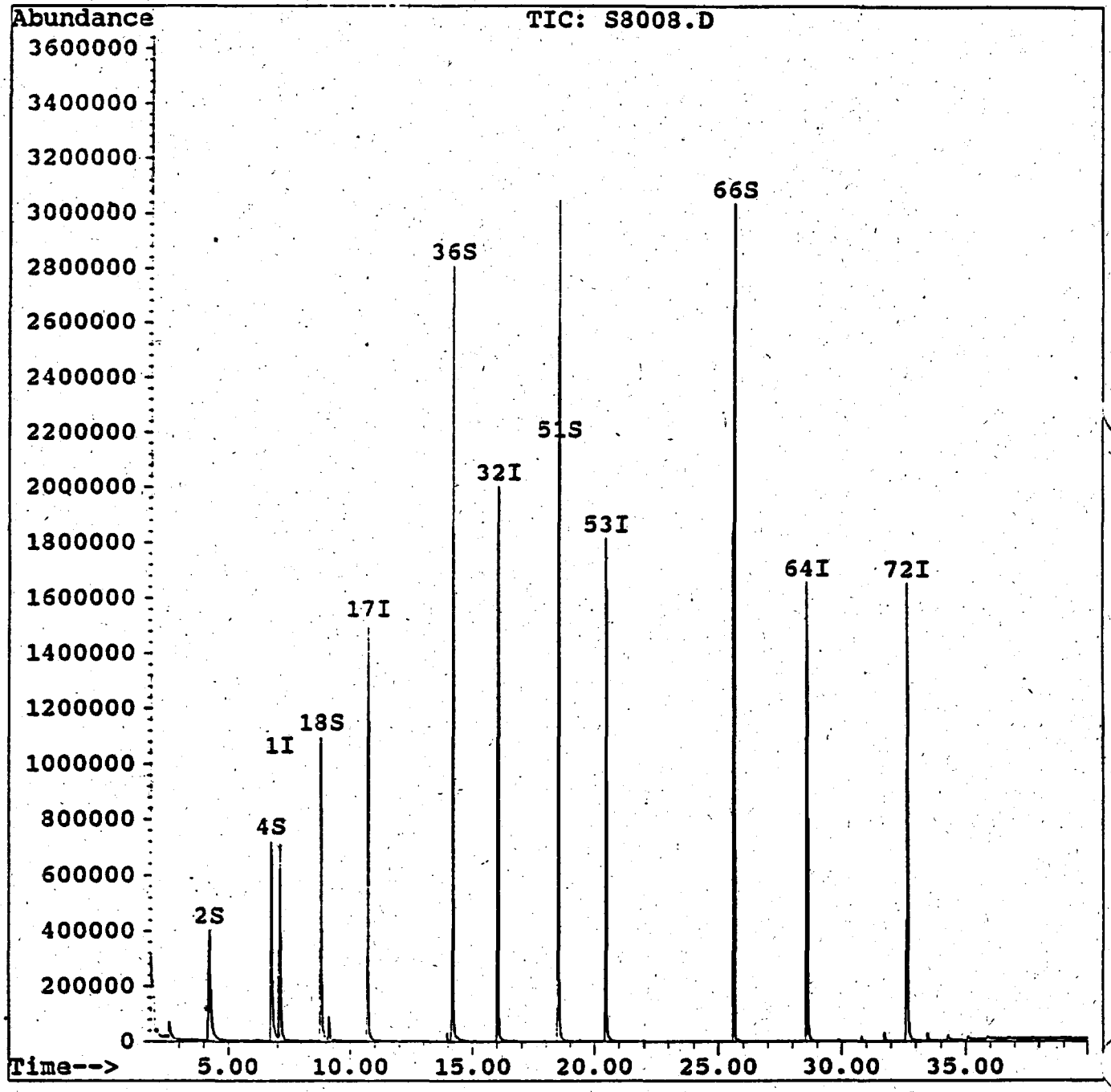
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8008.D
Acq Time : 6 Jun 96 2:15 am
Sample : 5974-QB60
Misc :
Quant Time: Jun 10 13:19 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



AR320641

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8008.D
Acq Time : 6 Jun 96 2:15 am
Sample : 5974-QB60
Misc :
Quant Time: Jun 10 13:19 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	454924	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1903595	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1161240	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1659149	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1552399	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1604953	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	849670	27.60	ng/uL	
4) Phenol-d5	6.74	99	1298680	29.33	ng/uL	
18) Nitrobenzene-d5	8.78	82	1075735	25.41	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2300619	29.07	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1133734	94.11	ng/uL	
66) Terphenyl-d14	25.63	244	2508945	25.92	ng/uL	
Target Compounds						Qvalue

AR320642

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8008.D
Acq Time : 6 Jun 96 2:15 am
Sample : 5974-QB60
Misc :

Operator:
Inst : BNA-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320643

006063

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-29

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 05975

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8009.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-29

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5975

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8009.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-29

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5975

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8009.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
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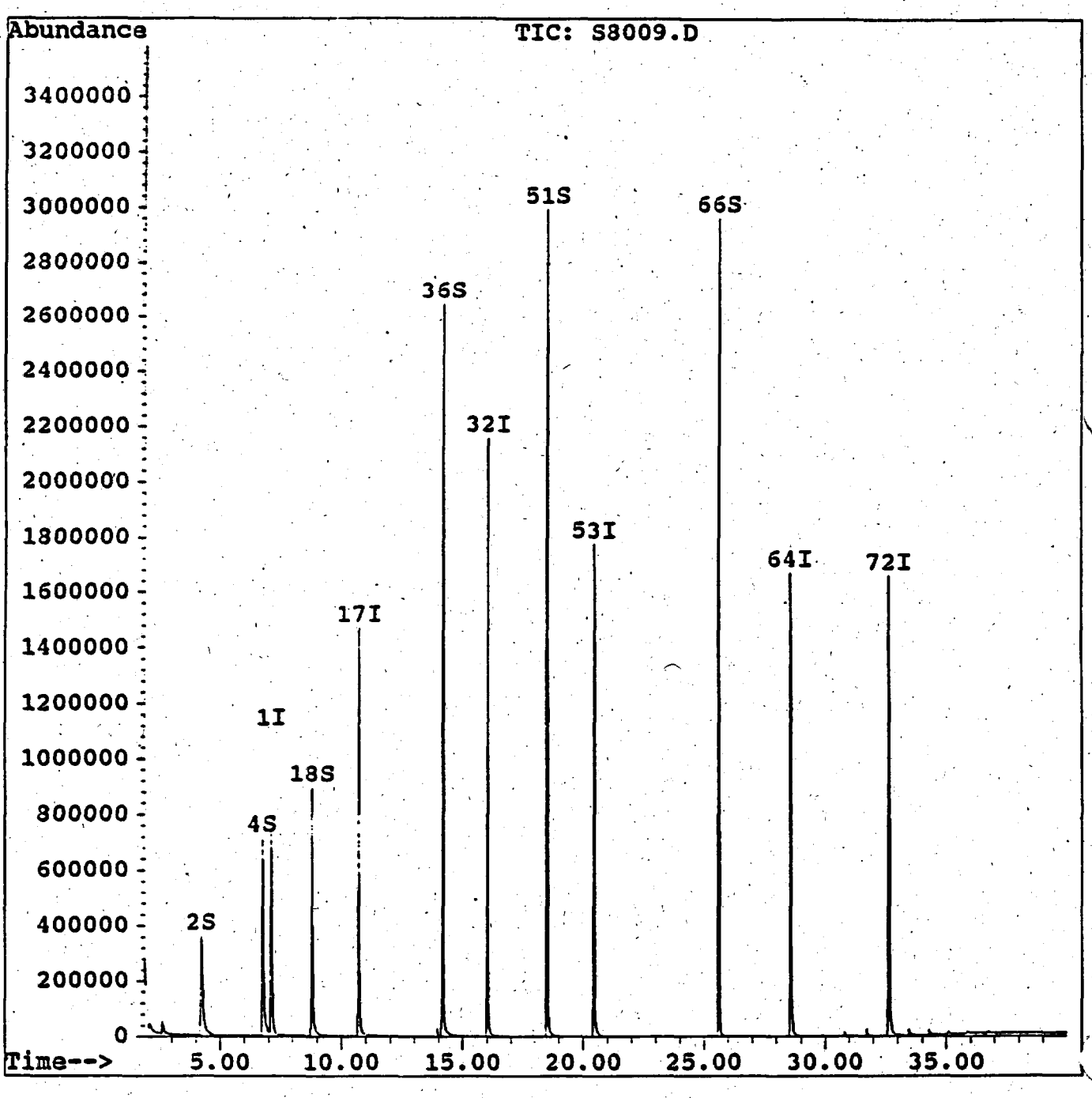
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8009.D
Acq Time : 6 Jun 96 3:04 am
Sample : 5975-QB60
Misc :
Quant Time: Jun 10 13:21 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



AR320647

00067

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8009.D
Acq Time : 6 Jun 96 3:04 am
Sample : 5975-QB60
Misc :
Quant Time: Jun 10 13:21 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	481920	20.00	ng/uL	-0.02
17) Naphthalene-d8	10.70	136	1949071	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1218321	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1698077	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1646740	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1652368	20.00	ng/uL	-0.03
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	4.21	112	790426	24.24	ng/uL	
4) Phenol-d5	6.74	99	1231121	26.24	ng/uL	
18) Nitrobenzene-d5	8.78	82	994872	22.95	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2164154	26.06	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1107363	87.61	ng/uL	
66) Terphenyl-d14	25.63	244	2478757	24.14	ng/uL	
Target Compounds						**Qvalue**

AR320648

070068

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8009.D
Acq Time : 6 Jun 96 3:04 am
Sample : 5975-QB60
Misc :

Operator:
Inst : BNA-GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-66

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 05976

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8013.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

U01070

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-66

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5976

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8013.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

001071

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-66

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil water) WATER Lab Sample ID: O5976

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8013.D

Level: (low med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
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2.				
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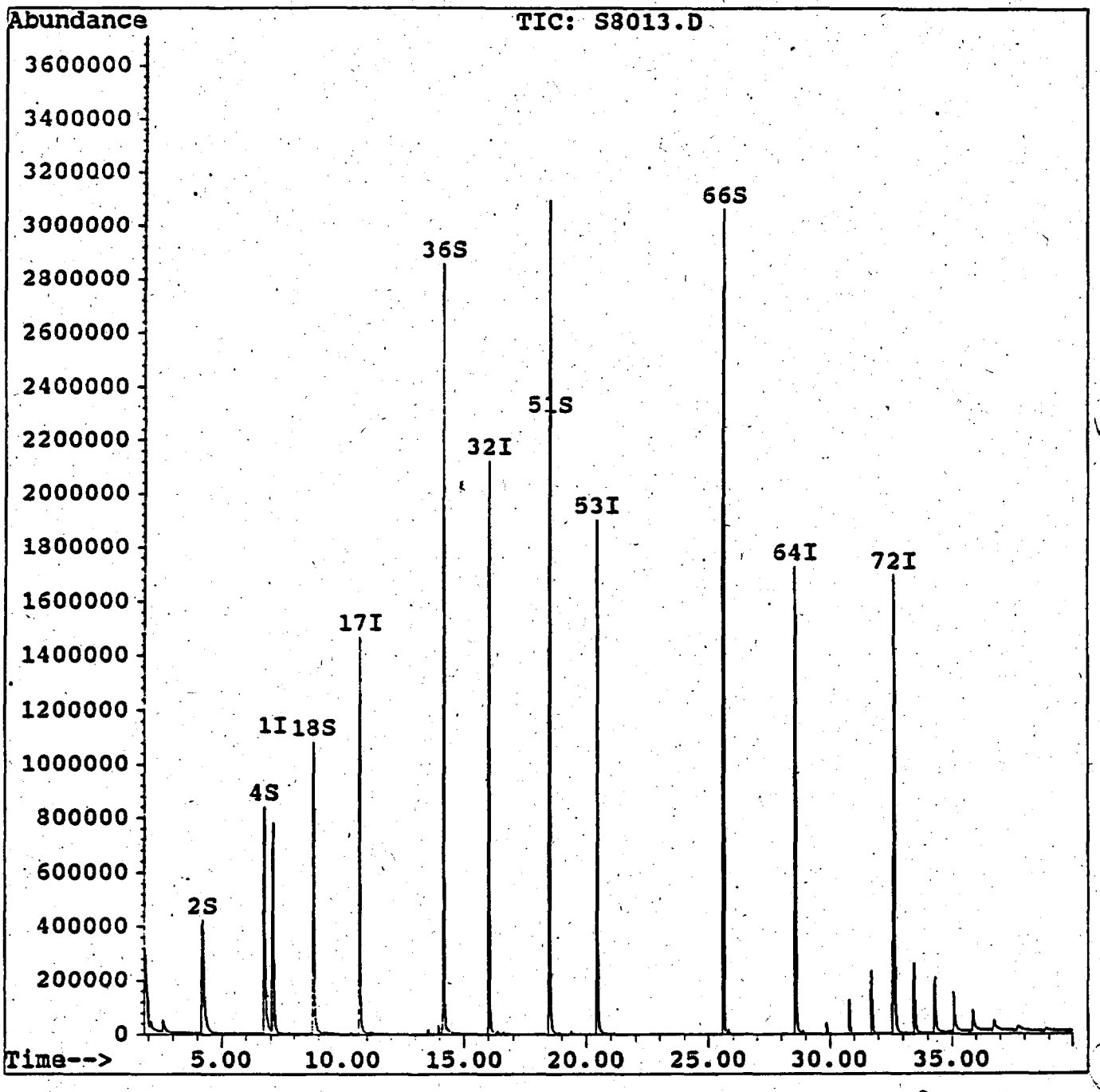
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8013.D
Acq Time : 6 Jun 96 5:43 am
Sample : 5976-QB60
Misc :
Quant Time: Jun 10 14:36 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration



AR320653

00073

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8013.D
Acq Time : 6 Jun 96 5:43 am
Sample : 5976-QB60
Misc :
Quant Time: Jun 10 14:36 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	494505	20.00	ng/uL	0.00
17) Naphthalene-d8	10.70	136	1934622	20.00	ng/uL	0.00
32) Acenaphthene-d10	16.03	164	1222951	20.00	ng/uL	0.00
53) Phenanthrene-d10	20.45	188	1729236	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1669143	20.00	ng/uL	-0.02
72) Perylene-d12	32.65	264	1574038	20.00	ng/uL	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	916940	27.64	ng/uL	
4) Phenol-d5	6.74	99	1417793	28.80	ng/uL	
18) Nitrobenzene-d5	8.78	82	1123182	26.52	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2377314	26.93	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1149575	80.36	ng/uL	
66) Terphenyl-d14	25.63	244	2602810	24.72	ng/uL	
Target Compounds						Qvalue

AR320654

001074

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8013.D
Acq Time : 6 Jun 96 5:43 am
Sample : 5976-QB60
Misc :

Operator:
Inst : BNA-GC
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320655

001075

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-27

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5977

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8014.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-27

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5977

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8014.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

RW-27

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5977

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8014.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
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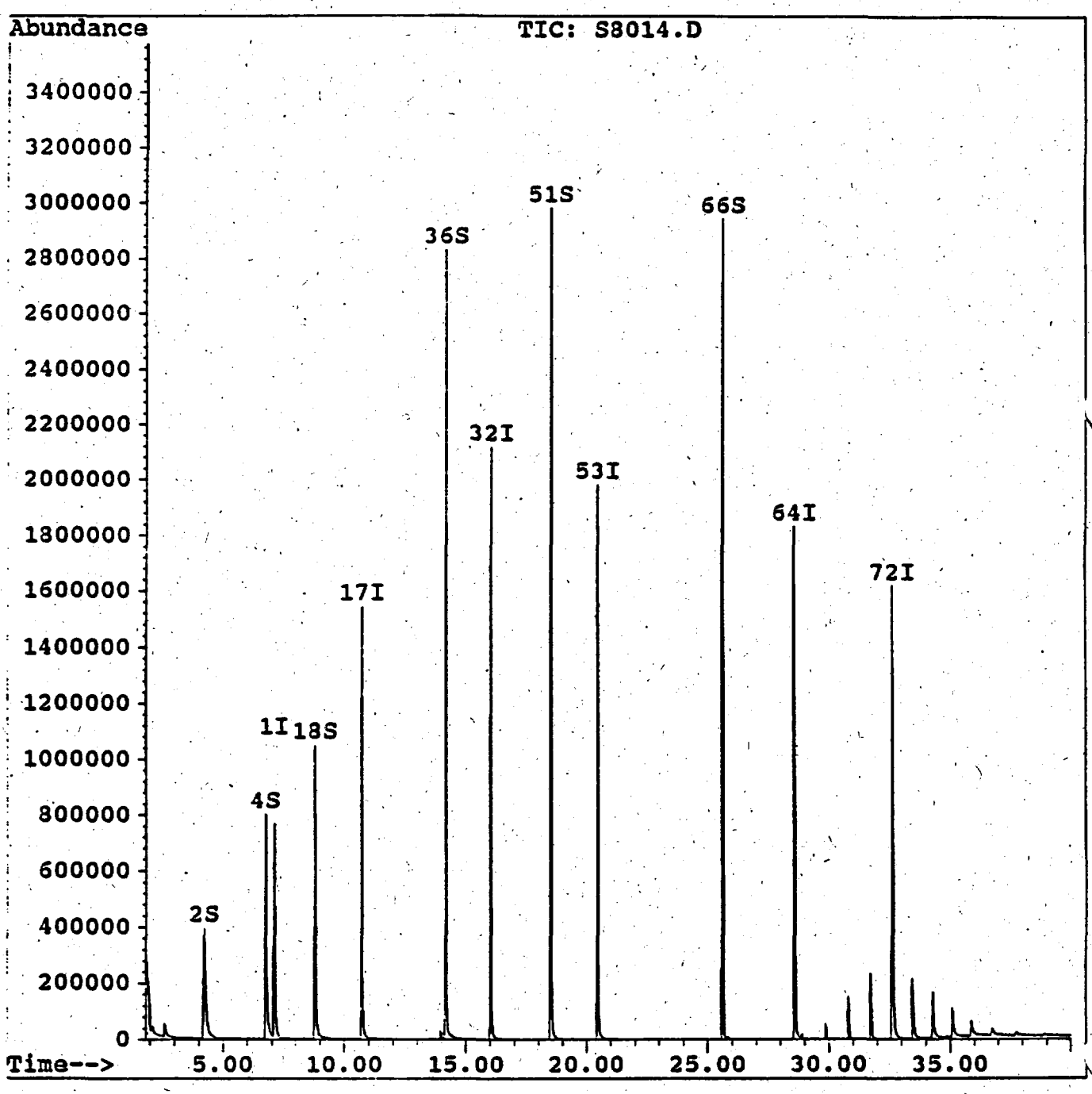
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8014.D
Acq Time : 6 Jun 96 6:32 am
Sample : 5977-QB60
Misc :
Quant Time: Jun 10 14:38 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration



AR320659

00079

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8014.D
Acq Time : 6 Jun 96 6:32 am
Sample : 5977-QB60
Misc :
Quant Time: Jun 10 14:38 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	493080	20.00	ng/uL	0.00
17) Naphthalene-d8	10.70	136	1933849	20.00	ng/uL	0.00
32) Acenaphthene-d10	16.03	164	1239524	20.00	ng/uL	0.00
53) Phenanthrene-d10	20.45	188	1836835	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1712079	20.00	ng/uL	-0.02
72) Perylene-d12	32.65	264	1568726	20.00	ng/uL	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	864061	26.12	ng/uL	
4) Phenol-d5	6.74	99	1375286	28.02	ng/uL	
18) Nitrobenzene-d5	8.78	82	1084574	25.62	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2380182	26.60	ng/uL	
51) 2,4,6-Tribromophenol	18.51	330	1099946	75.86	ng/uL	
66) Terphenyl-d14	25.63	244	2455577	22.74	ng/uL	
Target Compounds						Qvalue

AR320660

00080

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8014.D
Acq Time : 6 Jun 96 6:32 am
Sample : 5977-QB60
Misc :

Operator:
Inst : BNA-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320661

00081

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RW-04

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5978

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8026.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-04

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 05978

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8026.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

001083

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RW-04

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5978

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8026.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
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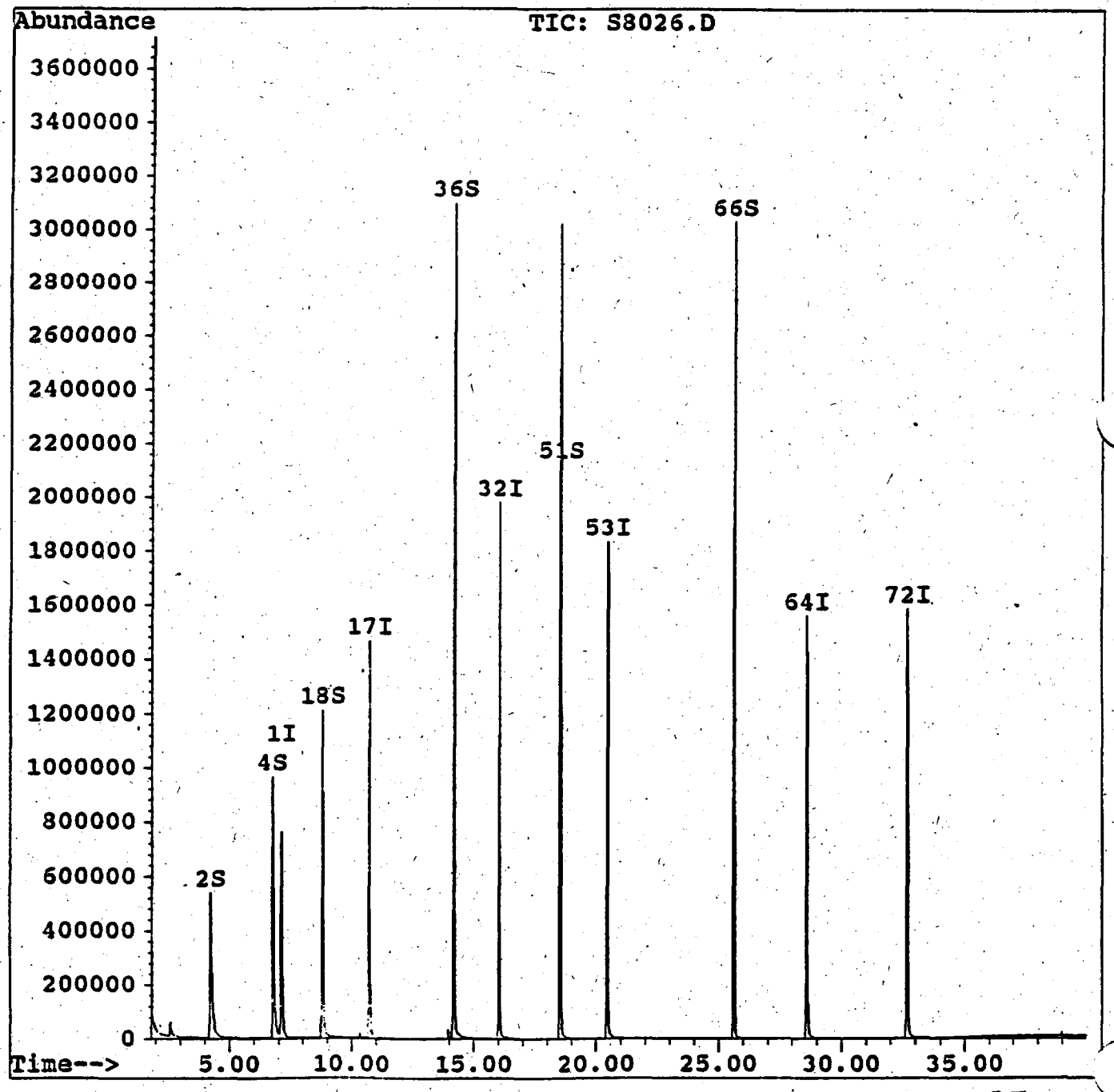
Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8026.D
Acq Time : 7 Jun 96 9:59 pm
Sample : 5978-QB-60
Misc :
Quant Time: Jun 10 15:03 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:58:58 1996
Response via : Single Level Calibration



AR320665

00,085

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8026.D
Acq Time : 7 Jun 96 9:59 pm
Sample : 5978-QB-60
Misc :
Quant Time: Jun 10 15:03 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:58:58 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	486714	20.00	ng/uL	-0.02
17) Naphthalene-d8	10.70	136	1879070	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1174503	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.45	188	1744500	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1538070	20.00	ng/uL	-0.04
72) Perylene-d12	32.65	264	1552441	20.00	ng/uL	-0.03
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	1054902	30.99	ng/uL	
4) Phenol-d5	6.74	99	1524495	30.60	ng/uL	
18) Nitrobenzene-d5	8.78	82	1280016	30.18	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2537921	31.65	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1067452	92.22	ng/uL	
66) Terphenyl-d14	25.63	244	2545980	26.57	ng/uL	
Target Compounds						Qvalue

AR320666

004086

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8026.D
Acq Time : 7 Jun 96 9:59 pm
Sample : 5978-QB-60
Misc :

Operator:
Inst : BNA-C S
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320667

60087

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: O5979

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8016.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

00n88

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5979

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8016.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

001089

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: FB

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5979

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S8016.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/6/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
4.				
5.				
6.				
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8.				
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11.				
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18.				
19.				
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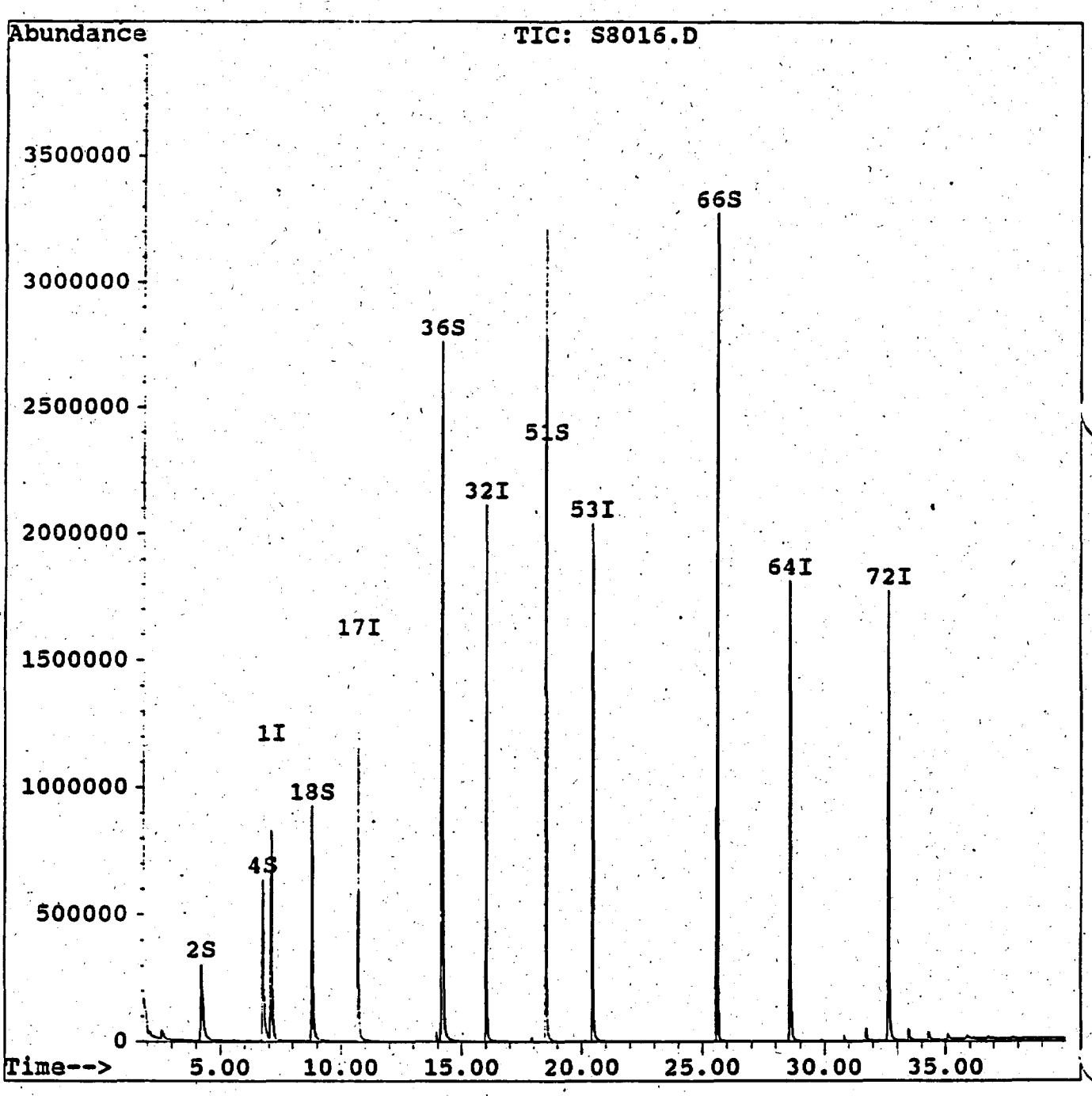
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8016.D
Acq Time : 6 Jun 96 8:09 am
Sample : 5979-QB60
Misc :
Quant Time: Jun 10 14:40 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration



AR320671

00091

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8016.D
Acq Time : 6 Jun 96 8:09 am
Sample : 5979-QB60
Misc :
Quant Time: Jun 10 14:40 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 14:35:49 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	522512	20.00	ng/uL	0.00
17) Naphthalene-d8	10.70	136	2063684	20.00	ng/uL	0.00
32) Acenaphthene-d10	16.03	164	1231052	20.00	ng/uL	0.00
53) Phenanthrene-d10	20.45	188	1920168	20.00	ng/uL	-0.02
64) Chrysene-d12	28.58	240	1732552	20.00	ng/uL	-0.02
72) Perylene-d12	32.65	264	1702736	20.00	ng/uL	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	669847	19.11	ng/uL	
4) Phenol-d5	6.74	99	1159178	22.28	ng/uL	
18) Nitrobenzene-d5	8.78	82	1027094	22.73	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2290385	25.77	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1203445	83.57	ng/uL	
66) Terphenyl-d14	25.63	244	2741467	25.09	ng/uL	
Target Compounds						Qvalue

AR320672

U01092

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S8016.D
Acq Time : 6 Jun 96 8:09 am
Sample : 5979-QB60
Misc :

Operator:
Inst : BNA-G
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320673

001093

(c)

Semivolatiles Data

Standards Data (All Instruments)

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date(s): 6/4/96 6/4/96

Calibration Times: 1749 2116

Lab File ID: RRF005 = S7988.D RRF010 = S7989.D
RRF020 = S7990.D RRF050 = S7991.D RRF080 = S7992.D

COMPOUND		RRF005	RRF010	RRF020	RRF050	RRF080	$\overline{RRF}$	% RSD	
Phenol	*	1.744	1.765	1.961	1.738	1.678	1.777	6.1	*
bis(2-Chloroethyl)ether	*	1.512	1.581	1.786	1.627	1.579	1.617	6.4	*
2-Chlorophenol	*	1.244	1.283	1.461	1.413	1.380	1.356	6.7	*
2-Methylphenol	*	1.178	1.219	1.351	1.365	0.963	1.215	13.4	*
2,2'-oxybis(1-Chloropropane)		1.634	1.586	1.901	1.876	1.763	1.752	8.0	
4-Methylphenol	*	1.195	1.184	1.261	1.195	1.143	1.196	3.6	*
N-Nitroso-di-n-propylamine	*	0.916	0.891	1.028	1.017	0.968	0.964	6.2	*
Hexachloroethane	*	0.676	0.672	0.748	0.708	0.659	0.693	5.2	*
Nitrobenzene	*	0.418	0.402	0.429	0.400	0.369	0.404	5.6	*
Isophorone	*	0.737	0.731	0.854	0.863	0.852	0.807	8.3	*
2-Nitrophenol	*	0.137	0.151	0.198	0.217	0.226	0.186	21.4	*
2,4-Dimethylphenol	*	0.305	0.293	0.340	0.342	0.340	0.324	7.2	*
bis(2-Chloroethoxy)methane	*	0.509	0.504	0.597	0.575	0.578	0.552	7.8	*
2,4-Dichlorophenol	*	0.290	0.290	0.340	0.331	0.309	0.312	7.4	*
1,2,4-Trichlorobenzene	*	0.349	0.338	0.373	0.348	0.325	0.347	5.0	*
Benzoic Acid		0.136	0.149	0.131	0.197	0.209	0.164	22.0	
Naphthalene	*	1.048	1.003	1.023	0.968	0.929	0.994	4.7	*
4-Chloroaniline		0.163	0.276	0.297	0.299	0.289	0.265	21.8	
Hexachlorobutadiene		0.154	0.159	0.178	0.179	0.174	0.169	6.8	
4-Chloro-3-methylphenol	*	0.296	0.303	0.346	0.346	0.321	0.322	7.3	*
2-Methylnaphthalene	*	0.692	0.716	0.811	0.762	0.738	0.744	6.1	*
Hexachlorocyclopentadiene		0.163	0.182	0.246	0.268	0.267	0.225	22.0	
2,4,6-Trichlorophenol	*	0.314	0.329	0.367	0.361	0.343	0.343	6.4	*
2-Chloronaphthalene	*	1.079	1.024	1.102	0.915	0.896	1.003	9.4	*
Dimethylphthalate		1.193	1.228	1.356	1.275	1.180	1.246	5.7	
Acenaphthylene	*	1.775	1.729	1.953	1.736	1.645	1.767	6.5	*
2,6-Dinitrotoluene	*	0.269	0.301	0.354	0.329	0.334	0.317	10.4	*
Acenaphthene	*	0.983	0.996	1.082	0.915	0.880	0.971	8.0	*
Dibenzofuran	*	1.600	1.530	1.701	1.519	1.354	1.541	8.3	*
2,4-Dinitrotoluene	*	0.325	0.387	0.464	0.480	0.460	0.423	15.5	*
Diethylphthalate		1.131	1.201	1.275	1.174	1.081	1.172	6.2	
4-Chlorophenyl-phenylether	*	0.504	0.503	0.543	0.497	0.470	0.503	5.2	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date(s): 6/4/96 6/4/96

Calibration Times: 1749 2116

Lab File ID: RRF20 = S7990.D RRF50 = S7991.D
RRF80 = S7992.D RRF120 = S7993.D RRF160 = S7994.D

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Fluorene	*	1.223	1.291	1.331	1.209	1.179	1.247	5.0	*
N-Nitrosodiphenylamine		0.458	0.422	0.456	0.385	0.341	0.412	12.0	
4-Bromophenyl-phenylether	*	0.204	0.212	0.230	0.229	0.220	0.219	5.1	*
Hexachlorobenzene	*	0.271	0.259	0.284	0.281	0.264	0.272	3.9	*
Phenanthrene	*	1.152	1.104	1.159	1.075	0.981	1.094	6.6	*
Anthracene	*	1.132	1.079	1.130	1.000	0.900	1.048	9.4	*
Di-n-butylphthalate		1.650	1.687	1.877	1.839	1.693	1.749	5.8	
Fluoranthene	*	1.290	1.235	1.325	1.240	1.162	1.250	4.9	*
Pyrene	*	1.392	1.496	1.615	1.596	1.586	1.537	6.1	*
Butylbenzylphthalate		0.846	0.802	0.897	0.974	1.033	0.910	10.3	
3,3'-Dichlorobenzidine		0.057	0.060	0.080	0.073	0.077	0.069	14.7	
Benzo[a]anthracene	*	1.153	1.246	1.395	1.457	1.410	1.332	9.6	*
Chrysene	*	1.046	1.053	1.172	1.082	0.975	1.076	5.3	*
bis(2-Ethylhexyl)phthalate		1.210	1.202	1.282	1.352	1.030	1.284	6.1	
Di-n-octylphthalate		2.261	2.179	2.272	2.277	1.371	2.249	1.8	
Benzo[b]fluoranthene	*	1.120	1.140	1.341	1.304	2.257	1.260	9.8	*
Benzo[k]fluoranthene	*	0.801	0.997	1.193	0.829	1.395	0.916	19.5	*
Benzo[a]pyrene	*	1.012	1.023	1.205	1.174	1.126	1.108	7.9	*
Indeno[1,2,3-cd]pyrene	*	1.103	0.912	1.126	1.383	1.345	1.174	16.4	*
Dibenz[a,h]anthracene	*	0.780	0.912	1.043	0.969	0.921	0.925	10.4	*
Benzo[g,h,i]perylene	*	0.920	0.935	1.091	1.093	1.057	1.019	8.4	*
Nitrobenzene-d5		0.402	0.401	0.431	0.406	0.404	0.409	3.1	
2-Fluorobiphenyl	*	1.354	1.365	1.414	1.188	1.140	1.292	9.3	*
Phenol-d5	*	1.663	1.753	1.973	1.805	1.763	1.791	6.4	*
2-Fluorophenol	*	1.066	1.151	1.410	1.437	1.384	1.290	13.1	*
Terphenyl-d14	*	1.055	1.113	1.218	1.221	1.202	1.162	6.4	*
2,4,6-Tribromophenol		0.169	0.171	0.206	0.195	0.193	0.187	8.6	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date(s): 6/4/96 6/4/96

Calibration Times: 1933 2259

Lab File ID: RRF20 = S7990.D RRF50 = S7991.D

RRF80 = S7992.D RRF120 = S7993.D RRF160 = S7994.D

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4,5-Trichlorophenol	0.403	0.370	0.341	0.354	0.348	0.363	6.9
2-Nitroaniline	0.339	0.346	0.345	0.361	0.377	0.353	4.4
3-Nitroaniline	0.133	0.107	0.096	0.117	0.127	0.116	12.9
2,4-Dinitrophenol	0.150	0.194	0.198	0.225	0.242	0.202	17.2
4-Nitrophenol	0.121	0.126	0.123	0.129	0.132	0.126	3.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date(s): 6/4/96 6/4/96

Calibration Times: 1933 2259

Lab File ID: RRF20 = S7990.D RRF50 = S7991.D
RRF80 = S7992.D RRF120 = S7993.D RRF160 = S7994.D

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
4-Nitroaniline	0.009	0.013	0.013	0.016	0.046	0.019	76.8
4,6-Dinitro-2-methylphenol	0.139	0.157	0.167	0.174	0.188	0.165	11.1
Pentachlorophenol	0.178	0.190	0.189	0.192	0.197	0.189	3.6
2,4,6-Tribromophenol	0.206	0.195	0.193	0.200	0.199	0.198	2.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

00098

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/5/96 Time: 1619

Lab File ID: S7996.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
Phenol	1.777	1.962	0.800	-10.4	25.0
bis(2-Chloroethyl)ether	1.617	1.641	0.700	-1.5	25.0
2-Chlorophenol	1.356	1.429	0.700	-5.4	25.0
2-Methylphenol	1.215	1.372	0.700	-12.9	25.0
2,2'-oxybis(1-Chloropropane)	1.752	1.956		-11.6	100.0
4-Methylphenol	1.196	1.427	0.600	-19.3	25.0
N-Nitroso-di-n-propylamine	0.964	1.086	0.500	-12.7	25.0
Hexachloroethane	0.693	0.773	0.300	-11.5	25.0
Nitrobenzene	0.404	0.438	0.200	-8.4	25.0
Isophorone	0.807	0.880	0.400	-9.0	25.0
2-Nitrophenol	0.186	0.232	0.100	-24.7	25.0
2,4-Dimethylphenol	0.324	0.326	0.200	-0.6	25.0
bis(2-Chloroethoxy)methane	0.552	0.584	0.300	-5.8	25.0
2,4-Dichlorophenol	0.312	0.339	0.200	-8.7	25.0
1,2,4-Trichlorobenzene	0.347	0.353	0.200	-1.7	25.0
Benzoic Acid	0.164	0.185		-12.8	
Naphthalene	0.994	1.033	0.700	-3.9	25.0
4-Chloroaniline	0.265	0.275		-3.8	
Hexachlorobutadiene	0.169	0.178		-5.3	
4-Chloro-3-methylphenol	0.322	0.346	0.200	-7.5	25.0
2-Methylnaphthalene	0.744	0.807	0.400	-8.5	25.0
Hexachlorocyclopentadiene	0.225	0.253		-12.4	
2,4,6-Trichlorophenol	0.343	0.355	0.200	-3.5	25.0
2-Chloronaphthalene	1.003	1.073	0.800	-7.0	25.0
Dimethylphthalate	1.246	1.370		-10.0	
Acenaphthylene	1.767	1.991	1.300	-12.7	25.0
2,6-Dinitrotoluene	0.317	0.363	0.200	-14.5	25.0
Acenaphthene	0.971	0.999	0.800	-2.9	25.0
Dibenzofuran	1.541	1.726	0.800	-12.0	25.0
2,4-Dinitrotoluene	0.423	0.493	0.200	-16.5	25.0
Diethylphthalate	1.172	1.337		-14.1	
4-Chlorophenyl-phenylether	0.503	0.550	0.400	-9.3	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Instrument ID: HP5971A Calibration Date: 6/5/96 Time: 1619

Lab File ID: S7996.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Fluorene	1.247	1.317	0.900	-5.6	25.0
N-Nitrosodiphenylamine	0.412	0.538		-30.6	
4-Bromophenyl-phenylether	0.219	0.254	0.100	-16.0	25.0
Hexachlorobenzene	0.272	0.306	0.100	-12.5	25.0
Phenanthrene	1.094	1.211	0.700	-10.7	25.0
Anthracene	1.048	1.211	0.700	-15.6	25.0
Di-n-butylphthalate	1.749	2.086		-19.3	
Fluoranthene	1.250	1.386	0.600	-10.9	25.0
Pyrene	1.537	1.569	0.600	-2.1	25.0
Butylbenzylphthalate	0.910	1.039		-14.2	
3,3'-Dichlorobenzidine	0.069	0.099		-43.5	
Benzo[a]anthracene	1.332	1.375	0.800	-3.2	25.0
Chrysene	1.076	1.145	0.700	-6.4	25.0
bis(2-Ethylhexyl)phthalate	1.283	1.441		-12.3	
Di-n-octylphthalate	2.249	2.506		-11.4	
Benzo[b]fluoranthene	1.260	1.307	0.700	-3.7	25.0
Benzo[k]fluoranthene	0.916	0.955	0.700	-4.3	25.0
Benzo[a]pyrene	1.108	1.195	0.700	-7.9	25.0
Indeno[1,2,3-cd]pyrene	1.174	1.090	0.500	7.2	25.0
Dibenz[a,h]anthracene	0.925	0.961	0.400	-3.9	25.0
Benzo[g,h,i]perylene	1.019	1.065	0.500	-4.5	25.0
Nitrobenzene-d5	0.409	0.445	0.010	-8.8	25.0
2-Fluorobiphenyl	1.292	1.363	0.700	-5.5	25.0
Phenol-d5	1.791	1.973	0.800	-10.2	25.0
2-Fluorophenol	1.290	1.353	0.600	-4.9	25.0
Terphenyl-d14	1.162	1.247	0.500	-7.3	25.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/5/96 Time: 1709

Lab File ID: S7997.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
2,4,5-Trichlorophenol	0.363	0.331	0.200	8.9	25.0
2-Nitroaniline	0.353	0.348	0.010	1.7	
3-Nitroaniline	0.116	0.058	0.010	50.0	
2,4-Dinitrophenol	0.202	0.239	0.010	10.2	
4-Nitrophenol	0.126	0.119	0.010	6.0	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/5/96 Time: 1709

Lab File ID: S7997.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
4-Nitroaniline	0.019	0.015	0.010	25.3	
4,6-Dinitro-2-methylphenol	0.165	0.193	0.010	-16.5	
Pentachlorophenol	0.189	0.191	0.050	-0.8	25.0
2,4,6-Tribromophenol	0..198	0.188	0.010	5.3	

All other compounds must meet a minimum RRF of 0.010.

00#102

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/6/96 Time: 0406

Lab File ID: S8011.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Phenol	1.777	1.930	0.800	-8.6	25.0
bis(2-Chloroethyl)ether	1.617	1.726	0.700	-6.7	25.0
2-Chlorophenol	1.356	1.458	0.700	-7.5	25.0
2-Methylphenol	1.215	1.301	0.700	-7.1	25.0
2,2'-oxybis(1-Chloropropane)	1.752	1.856		-5.9	100.0
4-Methylphenol	1.196	1.303	0.600	-8.9	25.0
N-Nitroso-di-n-propylamine	0.964	1.029	0.500	-6.7	25.0
Hexachloroethane	0.693	0.715	0.300	-3.2	25.0
Nitrobenzene	0.404	0.438	0.200	-8.4	25.0
Isophorone	0.807	0.886	0.400	-9.8	25.0
2-Nitrophenol	0.186	0.235	0.100	-26.3	25.0
2,4-Dimethylphenol	0.324	0.317	0.200	2.2	25.0
bis(2-Chloroethoxy)methane	0.552	0.585	0.300	-6.0	25.0
2,4-Dichlorophenol	0.312	0.331	0.200	-6.1	25.0
1,2,4-Trichlorobenzene	0.347	0.355	0.200	-2.3	25.0
Benzoic Acid	0.164	0.196		-19.5	
Naphthalene	0.994	1.025	0.700	-3.1	25.0
4-Chloroaniline	0.265	0.337		-27.2	
Hexachlorobutadiene	0.169	0.188		-11.2	
4-Chloro-3-methylphenol	0.322	0.359	0.200	-11.5	25.0
2-Methylnaphthalene	0.744	0.793	0.400	-6.6	25.0
Hexachlorocyclopentadiene	0.225	0.246		-9.3	
2,4,6-Trichlorophenol	0.343	0.393	0.200	-14.6	25.0
2-Chloronaphthalene	1.003	1.108	0.800	-10.5	25.0
Dimethylphthalate	1.246	1.345		-7.9	
Acenaphthylene	1.767	2.044	1.300	-15.7	25.0
2,6-Dinitrotoluene	0.317	0.361	0.200	-13.9	25.0
Acenaphthene	0.971	1.088	0.800	-12.0	25.0
Dibenzofuran	1.541	1.767	0.800	-14.7	25.0
2,4-Dinitrotoluene	0.423	0.508	0.200	-20.1	25.0
Diethylphthalate	1.172	1.334		-13.8	
4-Chlorophenyl-phenylether	0.503	0.578	0.400	-14.9	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/6/96 Time: 0406

Lab File ID: S8011.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Fluorene	1.247	1.420	0.900	-13.9	25.0
N-Nitrosodiphenylamine	0.412	0.537		-30.3	
4-Bromophenyl-phenylether	0.219	0.244	0.100	-11.4	25.0
Hexachlorobenzene	0.272	0.305	0.100	-12.1	25.0
Phenanthrene	1.094	1.155	0.700	-5.6	25.0
Anthracene	1.048	1.181	0.700	-12.7	25.0
Di-n-butylphthalate	1.749	2.063		-18.0	
Fluoranthene	1.250	1.371	0.600	-9.7	25.0
Pyrene	1.537	1.593	0.600	-3.6	25.0
Butylbenzylphthalate	0.910	1.083		-19.0	
3,3'-Dichlorobenzidine	0.069	0.105		-52.2	
Benzo[a]anthracene	1.332	1.428	0.800	-7.2	25.0
Chrysene	1.076	1.149	0.700	-6.8	25.0
bis(2-Ethylhexyl)phthalate	1.283	1.430		-11.5	
Di-n-octylphthalate	2.249	2.513		-11.7	
Benzo[b]fluoranthene	1.260	1.345	0.700	-6.7	25.0
Benzo[k]fluoranthene	0.916	1.185	0.700	-29.4	25.0
Benzo[a]pyrene	1.108	1.207	0.700	-8.9	25.0
Indeno[1,2,3-cd]pyrene	1.174	1.110	0.500	5.5	25.0
Dibenz[a,h]anthracene	0.925	1.025	0.400	-10.8	25.0
Benzo[g,h,i]perylene	1.019	1.088	0.500	-6.8	25.0
Nitrobenzene-d5	0.409	0.438	0.010	-7.1	25.0
2-Fluorobiphenyl	1.292	1.444	0.700	-11.8	25.0
Phenol-d5	1.791	1.991	0.800	-11.2	25.0
2-Fluorophenol	1.290	1.342	0.600	-4.0	25.0
Terphenyl-d14	1.162	1.247	0.500	-7.3	25.0

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/6/96 Time: 0455

Lab File ID: S8012.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
2,4,5-Trichlorophenol	0.363	0.351	0.200	3.4	20.5
2-Nitroaniline	0.353	0.367	0.010	-3.8	
3-Nitroaniline	0.116	0.091	0.010	21.7	
2,4-Dinitrophenol	0.202	0.255	0.010	-26.3	
4-Nitrophenol	0.126	0.127	0.010	-0.6	

All other compounds must meet a minimum RRF of 0.010.

00105

AR320685

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Instrument ID: HP5971A Calibration Date: 6/6/96 Time: 0455

Lab File ID: S8012.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
4-Nitroaniline	0.019	0.020	0.010	-1.1	
4,6-Dinitro-2-methylphenol	0.165	0.191	0.010	-15.5	
Pentachlorophenol	0.189	0.191	0.050	-0.9	25.0
2,4,6-Tribromophenol	0.198	0.211	0.010	-6.4	

All other compounds must meet a minimum RRF of 0.010.

000106

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/7/96 Time: 1739

Lab File ID: S8021.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Phenol	1.777	2.026	0.800	-14.0	25.0
bis(2-Chloroethyl)ether	1.617	1.819	0.700	-12.5	25.0
2-Chlorophenol	1.356	1.474	0.700	-8.7	25.0
2-Methylphenol	1.215	1.382	0.700	-13.7	25.0
2,2'-oxybis(1-Chloropropane)	1.752	2.048		-16.9	100.0
4-Methylphenol	1.196	1.192	0.600	-1.5	25.0
N-Nitroso-di-n-propylamine	0.964	1.146	0.500	-18.9	25.0
Hexachloroethane	0.693	0.792	0.300	-14.3	25.0
Nitrobenzene	0.404	0.445	0.200	-10.1	25.0
Isophorone	0.807	0.885	0.400	-9.7	25.0
2-Nitrophenol	0.186	0.199	0.100	-7.0	25.0
2,4-Dimethylphenol	0.324	0.336	0.200	-3.7	25.0
bis(2-Chloroethoxy)methane	0.552	0.619	0.300	-12.1	25.0
2,4-Dichlorophenol	0.312	0.333	0.200	-6.7	25.0
1,2,4-Trichlorobenzene	0.347	0.367	0.200	-5.8	25.0
Benzoic Acid	0.164	0.202		-23.2	
Naphthalene	0.994	1.039	0.700	-4.5	25.0
4-Chloroaniline	0.265	0.252		4.9	
Hexachlorobutadiene	0.169	0.175		-3.6	
4-Chloro-3-methylphenol	0.322	0.347	0.200	-7.8	25.0
2-Methylnaphthalene	0.744	0.796	0.400	-7.0	25.0
Hexachlorocyclopentadiene	0.225	0.265		-17.8	
2,4,6-Trichlorophenol	0.343	0.353	0.200	-2.9	25.0
2-Chloronaphthalene	1.003	1.096	0.800	-9.3	25.0
Dimethylphthalate	1.246	1.376		-10.4	
Acenaphthylene	1.767	1.938	1.300	-9.7	25.0
2,6-Dinitrotoluene	0.317	0.356	0.200	-12.3	25.0
Acenaphthene	0.971	1.052	0.800	-8.3	25.0
Dibenzofuran	1.541	1.581	0.800	-2.6	25.0
2,4-Dinitrotoluene	0.423	0.499	0.200	-18.0	25.0
Diethylphthalate	1.172	1.326		-13.1	
4-Chlorophenyl-phenylether	0.503	0.527	0.400	-4.8	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/7/96 Time: 1739

Lab File ID: S8021.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1749 2116

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Fluorene	1.247	1.315	0.900	-5.5	25.0
N-Nitrosodiphenylamine	0.412	0.541		-31.3	
4-Bromophenyl-phenylether	0.219	0.225	0.100	-2.7	25.0
Hexachlorobenzene	0.272	0.301	0.100	-10.7	25.0
Phenanthrene	1.094	1.193	0.700	-9.0	25.0
Anthracene	1.048	1.181	0.700	-12.7	25.0
Di-n-butylphthalate	1.749	2.095		-19.8	
Fluoranthene	1.250	1.387	0.600	-11.0	25.0
Pyrene	1.537	1.639	0.600	-6.6	25.0
Butylbenzylphthalate	0.910	1.122		-23.3	
3,3'-Dichlorobenzidine	0.069	0.095		-37.7	
Benzo[a]anthracene	1.332	1.375	0.800	-3.2	25.0
Chrysene	1.076	1.125	0.700	-4.6	25.0
bis(2-Ethylhexyl)phthalate	1.283	1.490		-16.1	
Di-n-octylphthalate	2.249	2.687		-19.5	
Benzo[b]fluoranthene	1.260	1.391	0.700	-10.4	25.0
Benzo[k]fluoranthene	0.916	1.141	0.700	-24.6	25.0
Benzo[a]pyrene	1.108	1.203	0.700	-8.6	25.0
Indeno[1,2,3-cd]pyrene	1.174	1.072	0.500	8.7	25.0
Dibenz[a,h]anthracene	0.925	0.987	0.400	-6.7	25.0
Benzo[g,h,i]perylene	1.019	1.031	0.500	-1.2	25.0
Nitrobenzene-d5	0.409	0.451	0.010	-10.3	25.0
2-Fluorobiphenyl	1.292	1.365	0.700	-5.7	25.0
Phenol-d5	1.791	2.047	0.800	-14.3	25.0
2-Fluorophenol	1.290	1.399	0.600	-8.4	25.0
Terphenyl-d14	1.162	1.246	0.500	-7.2	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/7/96 Time: 1831

Lab File ID: S8022.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
2,4,5-Trichlorophenol	0.363	0.356	0.200	2.0	25.0
2-Nitroaniline	0.353	0.357	0.010	-1.0	
3-Nitroaniline	0.116	0.046	0.010	60.5	
2,4-Dinitrophenol	0.202	0.269	0.010	-33.4	
4-Nitrophenol	0.126	0.127	0.010	-0.7	

All other compounds must meet a minimum RRF of 0.010.

~~SDG 113~~
000109

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5971A Calibration Date: 6/7/96 Time: 1831

Lab File ID: S8022.D Init. Calib. Date(s): 6/4/96 6/4/96

Init. Calib. Times: 1933 2259

COMPOUND	$\overline{RRF}$	RRF80	MIN RRF	%D	MAX %D
4-Nitroaniline	0.019	0.017	0.010	14.0	
4,6-Dinitro-2-methylphenol	0.165	0.203	0.010	-23.0	
Pentachlorophenol	0.189	0.195	0.050	-2.8	25.0
2,4,6-Tribromophenol	0.198	0.196	0.010	1.1	

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA-GC/MS

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Initial Calibration

Calibration Files
20 =S7990.D 50 =S7991.D 80 =S7992.D
100 =S7993.D 120 =S7994.D

		Compound	20	50	80	100	120	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d4	ISTD						
2)	S	2-Fluorophenol	1.410	1.437	1.384	1.470	1.522	1.445	3.72
3)		Aniline	1.786	1.625	1.579	1.535	1.516	1.608	6.72
4)	S	Phenol-d5	1.973	1.805	1.763	1.698	1.677	1.783	6.60
5)	CM	Phenol	1.961	1.738	1.678	1.586	1.547	1.702	9.58
6)		bis(2-Chloroethyl)ether	1.786	1.627	1.579	1.535	1.517	1.609	6.71
7)	M	2-Chlorophenol	1.461	1.413	1.380	1.388	1.404	1.409	2.26
8)		1,3-Dichlorobenzene	1.549	1.454	1.380	1.365	1.430	1.436	5.08
9)	CM	1,4-Dichlorobenzene	1.608	1.496	1.407	1.427	1.477	1.483	5.33
10)		1,2-Dichlorobenzene	1.493	1.380	1.237	1.250	1.224	1.317	8.86
11)		Benzyl alcohol	0.984	0.972	0.964	1.039	1.094	1.010	5.43
12)		2-Methylphenol	1.351	1.365	0.963	1.301	1.361	1.268	13.60
13)		2,2'-oxybis(1-Chloropropa	1.901	1.876	1.763	1.818	1.916	1.855	3.43
14)		Hexachloroethane	0.748	0.708	0.659	0.678	0.667	0.692	5.27
15)		3+4-Methyphenols	1.261	1.195	1.143	1.129	1.144	1.174	4.65
16)	PM	N-Nitroso-di-n-propylamin	1.027	1.017	0.968	1.036	1.056	1.021	3.
17)	I	Naphthalene-d8	ISTD						
18)	S	Nitrobenzene-d5	0.431	0.406	0.404	0.386	0.407	0.407	4.01
19)		Nitrobenzene	0.429	0.400	0.369	0.345	0.357	0.380	8.98
20)		Isophorone	0.854	0.863	0.852	0.902	0.973	0.889	5.78
21)	C	2-Nitrophenol	0.198	0.217	0.226	0.228	0.235	0.221	6.47
22)		2,4-Dimethylphenol	0.340	0.342	0.340	0.332	0.373	0.345	4.56
23)		bis(2-Chloroethoxy)methan	0.597	0.575	0.578	0.555	0.573	0.576	2.58
24)	C	2,4-Dichlorophenol	0.340	0.331	0.309	0.321	0.329	0.326	3.59
25)		Benzoic Acid	0.131	0.197	0.209	0.246	0.295	0.215	28.31
26)	M	1,2,4-Trichlorobenzene	0.373	0.348	0.325	0.310	0.328	0.337	7.19
27)		Naphthalene	1.023	0.968	0.929	0.914	0.917	0.950	4.86
28)		4-Chloroaniline	0.297	0.299	0.289	0.138	0.175	0.240	32.14
29)	C	Hexachlorobutadiene	0.178	0.179	0.174	0.166	0.169	0.173	3.24
30)	CM	4-Chloro-3-methylphenol	0.346	0.346	0.321	0.321	0.333	0.333	3.76
31)		2-Methylnaphthalene	0.810	0.762	0.738	0.722	0.741	0.755	4.55
32)	I	Acenaphthene-d10	ISTD						
33)	P	Hexachlorocyclopentadiene	0.246	0.268	0.267	0.283	0.278	0.268	5.37
34)	C	2,4,6-Trichlorophenol	0.367	0.361	0.343	0.348	0.357	0.355	2.77
35)		2,4,5-Trichlorophenol	0.403	0.370	0.341	0.354	0.348	0.363	6.86
36)	S	2-Fluorobiphenyl	1.414	1.188	1.140	1.036	0.958	1.147	15.15
37)		2-Chloronaphthalene	1.102	0.915	0.896	0.841	0.784	0.907	13.23
38)		2-Nitroaniline	0.339	0.346	0.345	0.361	0.377	0.353	4.40
39)		Dimethylphthalate	1.356	1.274	1.180	1.195	1.173	1.236	6.
40)		Acenaphthylene	1.953	1.736	1.645	1.627	1.676	1.727	7.
41)		2,6-Dinitrotoluene	0.353	0.329	0.334	0.318	0.320	0.331	4.33

00111

(#) = Out of Range

Response Factor Report BNA-GC/MS

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Initial Calibration

Calibration Files
20 =S7990.D 50 =S7991.D 80 =S7992.D
100 =S7993.D 120 =S7994.D

		Compound	20	50	80	100	120	Avg	%RSD
42)		3-Nitroaniline	0.133	0.107	0.096	0.117	0.127	0.116	12.85
43)	CM	Acenaphthene	1.082	0.915	0.880	0.862	0.868	0.921	9.99
44)	P	2,4-Dinitrophenol	0.150	0.194	0.198	0.225	0.242	0.202	17.24
45)		Dibenzofuran	1.701	1.519	1.354	1.326	1.294	1.439	11.85
46)	PM	4-Nitrophenol	0.121	0.126	0.123	0.129	0.132	0.126	3.53
47)	M	2,4-Dinitrotoluene	0.464	0.480	0.460	0.475	0.482	0.472	2.05
48)		Fluorene	1.331	1.209	1.179	1.163	1.070	1.190	7.90
49)		Diethylphthalate	1.275	1.174	1.081	1.032	1.001	1.113	10.05
50)		4-Chlorophenyl-phenylethe	0.543	0.497	0.470	0.461	0.438	0.482	8.38
51)	S	2,4,6-Tribromophenol	0.206	0.195	0.193	0.199	0.199	0.198	2.49
52)		4-Nitroaniline	0.009	0.013	0.013	0.016	0.046	0.019	76.84
53)	I	Phenanthrene-d10	----------	----------	ISTD	----------	----------	----------	----------
54)		4,6-Dinitro-2-methylpheno	0.139	0.157	0.167	0.174	0.188	0.165	11.14
55)	C	N-Nitrosodiphenylamine	0.456	0.385	0.341	0.325	0.323	0.366	15.33
56)		1,2-Diphenylhydrazine	0.056	0.045	0.040	0.035	0.038	0.043	18.78
57)		4-Bromophenyl-phenylether	0.230	0.229	0.219	0.216	0.223	0.223	2.72
58)		Hexachlorobenzene	0.284	0.281	0.264	0.267	0.261	0.272	3.80
59)	CM	Pentachlorophenol	0.178	0.190	0.189	0.192	0.197	0.189	3.61
60)		Phenanthrene	1.159	1.075	0.981	0.952	0.977	1.029	8.40
61)		Anthracene	1.130	1.000	0.900	0.823	0.827	0.936	13.89
62)		Di-n-butylphthalate	1.877	1.839	1.693	1.671	1.566	1.729	7.39
63)	C	Fluoranthene	1.325	1.240	1.162	1.118	1.101	1.189	7.84
64)	I	Chrysene-d12	----------	----------	ISTD	----------	----------	----------	----------
65)	M	Pyrene	1.615	1.596	1.586	1.671	1.642	1.622	2.14
66)	S	Terphenyl-d14	1.218	1.221	1.201	1.277	1.289	1.241	3.14
67)		Butylbenzylphthalate	0.897	0.974	1.033	1.132	1.185	1.044	11.17
68)		Benzo[a]anthracene	1.395	1.457	1.410	1.510	1.545	1.464	4.39
69)		3,3'-Dichlorobenzidine	0.080	0.073	0.077	0.089	0.090	0.082	9.31
70)		Chrysene	1.172	1.082	1.030	1.003	0.975	1.052	7.38
71)		bis(2-Ethylhexyl)phthalat	1.282	1.352	1.371	1.474	1.479	1.392	6.04
72)	I	Perylene-d12	----------	----------	ISTD	----------	----------	----------	----------
73)	C	Di-n-octylphthalate	2.272	2.277	2.256	2.328	2.461	2.319	3.62
74)		Benzo[b]fluoranthene	1.341	1.304	1.395	1.654	2.216	1.582	24.01
75)		Benzo[k]fluoranthene	1.193	0.829	0.760	1.654	2.216	1.330	45.78
76)	C	Benzo[a]pyrene	1.205	1.174	1.126	1.190	1.210	1.181	2.88
77)		Indeno[1,2,3-cd]pyrene	1.126	1.383	1.345	0.865	0.619	1.068	30.42
78)		Dibenz[a,h]anthracene	1.043	0.969	0.921	0.933	0.943	0.962	5.07
79)		Benzo[g,h,i]perylene	1.091	1.093	1.057	1.096	1.114	1.090	1.90

00112

(#) = Out of Range

Response Factor Report BNA-GC/MS

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 11:46:04 1996
Response via : Initial Calibration

Calibration Files
5 =S7988.D 10 =S7989.D 20 =S7990.D
50 =S7991.D 80 =S7992.D

		Compound	5	10	20	50	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d4	ISTD						
2)		Pyridine						0.000#	-1.00
3)		N-nitroso-dimethylamine						0.000#	-1.00
4)	S	2-Fluorophenol	1.066	1.151	1.410	1.437	1.384	1.290	13.10
5)		Aniline	1.512	1.581	1.786	1.625	1.579	1.617	6.37
6)	S	2-Chlorophenol-d4						0.000#	-1.00
7)	S	Phenol-d5	1.663	1.753	1.973	1.805	1.763	1.791	6.37
8)	CM	Phenol	1.744	1.765	1.961	1.738	1.678	1.777	6.05
9)		bis(2-Chloroethyl)ether	1.512	1.581	1.786	1.627	1.579	1.617	6.37
10)	M	2-Chlorophenol	1.244	1.283	1.461	1.413	1.380	1.356	6.68
11)		1,3-Dichlorobenzene	1.428	1.411	1.549	1.454	1.380	1.444	4.45
12)	CM	1,4-Dichlorobenzene	1.487	1.437	1.608	1.496	1.407	1.487	5.18
13)	S	1,2-Dichlorobenzene-d4	1.117	1.062	1.197	1.116	1.065	1.112	4.92
14)		1,2-Dichlorobenzene	1.471	1.381	1.493	1.380	1.237	1.392	7.22
15)		Benzyl alcohol	0.745	0.789	0.984	0.972	0.964	0.891	12.82
16)		2-Methylphenol	1.178	1.219	1.351	1.365	0.963	1.215	13.7
17)		2,2'-oxybis(1-Chloropropa	1.634	1.586	1.901	1.876	1.763	1.752	8.5
18)		Hexachloroethane	0.676	0.672	0.748	0.708	0.659	0.693	5.17
19)		3+4-Methyphenols	1.195	1.184	1.261	1.195	1.143	1.196	3.55
20)	PM	N-Nitroso-di-n-propylamin	0.916	0.891	1.027	1.017	0.968	0.964	6.23
21)	I	Naphthalene-d8	ISTD						
22)	S	Nitrobenzene-d5	0.402	0.401	0.431	0.406	0.404	0.409	3.11
23)		Nitrobenzene	0.418	0.402	0.429	0.400	0.369	0.404	5.65
24)		Isophorone	0.737	0.730	0.854	0.863	0.852	0.807	8.33
25)	C	2-Nitrophenol	0.137	0.151	0.198	0.217	0.226	0.186	21.43
26)		2,4-Dimethylphenol	0.305	0.293	0.340	0.342	0.340	0.324	7.20
27)		bis(2-Chloroethoxy)methan	0.509	0.504	0.597	0.575	0.578	0.552	7.80
28)	C	2,4-Dichlorophenol	0.290	0.290	0.340	0.331	0.309	0.312	7.37
29)		Benzoic Acid	0.136	0.149	0.131	0.197	0.209	0.164	22.00
30)	M	1,2,4-Trichlorobenzene	0.349	0.338	0.373	0.348	0.325	0.347	5.01
31)		Naphthalene	1.048	1.003	1.023	0.968	0.929	0.994	4.68
32)		4-Chloroaniline	0.163	0.276	0.297	0.299	0.289	0.265	21.79
33)	C	Hexachlorobutadiene	0.154	0.158	0.178	0.179	0.174	0.169	6.84
34)	CM	4-Chloro-3-methylphenol	0.296	0.303	0.346	0.346	0.321	0.322	7.30
35)		2-Methylnaphthalene	0.691	0.716	0.810	0.762	0.738	0.744	6.13
36)	I	Acenaphthene-d10	ISTD						
37)	P	Hexachlorocyclopentadiene	0.163	0.182	0.246	0.268	0.267	0.225	22.01
38)	C	2,4,6-Trichlorophenol	0.314	0.329	0.367	0.361	0.343	0.343	6.44
39)		2,4,5-Trichlorophenol	0.344	0.348	0.403	0.370	0.341	0.361	7.5
40)	S	2-Fluorobiphenyl	1.354	1.365	1.414	1.188	1.140	1.292	9.4
41)		2-Chloronaphthalene	1.079	1.024	1.102	0.915	0.896	1.003	9.36

(#) = Out of Range

Response Factor Report BNA-GC/MS

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 11:46:04 1996
Response via : Initial Calibration

Calibration Files
5 =S7988.D 10 =S7989.D 20 =S7990.D
50 =S7991.D 80 =S7992.D

		Compound	5	10	20	50	80	Avg	%RSD
42)		2-Nitroaniline	0.245	0.274	0.339	0.346	0.345	0.310	15.12
43)		Dimethylphthalate	1.193	1.228	1.356	1.274	1.180	1.246	5.73
44)		Acenaphthylene	1.774	1.728	1.953	1.736	1.645	1.767	6.45
45)		2,6-Dinitrotoluene	0.269	0.301	0.353	0.329	0.334	0.317	10.42
46)		3-Nitroaniline	0.101	0.104	0.133	0.107	0.096	0.108	13.37
47)	CM	Acenaphthene	0.982	0.996	1.082	0.915	0.880	0.971	8.04
48)	P	2,4-Dinitrophenol		0.080	0.150	0.194	0.198	0.156	35.32
49)		Dibenzofuran	1.600	1.530	1.701	1.519	1.354	1.541	8.25
50)	PM	4-Nitrophenol	0.056	0.089	0.121	0.126	0.123	0.103	29.24
51)	M	2,4-Dinitrotoluene	0.325	0.386	0.464	0.480	0.460	0.423	15.50
52)		Fluorene	1.223	1.291	1.331	1.209	1.179	1.247	5.00
53)		Diethylphthalate	1.131	1.201	1.275	1.174	1.081	1.172	6.24
54)		4-Chlorophenyl-phenylethe	0.504	0.502	0.543	0.497	0.470	0.503	5.23
55)	S	2,4,6-Tribromophenol	0.169	0.171	0.206	0.195	0.193	0.187	8.60
56)		4-Nitroaniline	0.091	0.108	0.009	0.013	0.013	0.047	103.59
57)	I	Phenanthrene-d10	----------	ISTD	----------				
58)		4,6-Dinitro-2-methylpheno	0.071	0.096	0.139	0.157	0.167	0.126	32.77
59)	C	N-Nitrosodiphenylamine	0.458	0.422	0.456	0.385	0.341	0.412	12.03
60)		1,2-Diphenylhydrazine	0.057	0.056	0.056	0.045	0.040	0.051	15.41
61)		4-Bromophenyl-phenylether	0.204	0.212	0.230	0.229	0.219	0.219	5.05
62)		Hexachlorobenzene	0.271	0.259	0.284	0.281	0.264	0.272	3.94
63)	CM	Pentachlorophenol	0.138	0.148	0.178	0.190	0.189	0.169	14.29
64)		Phenanthrene	1.152	1.104	1.159	1.075	0.981	1.094	6.57
65)		Anthracene	1.132	1.079	1.130	1.000	0.900	1.048	9.42
66)		Carbazole						0.000#	-1.00
67)		Di-n-butylphthalate	1.650	1.687	1.877	1.839	1.693	1.749	5.80
68)	C	Fluoranthene	1.290	1.235	1.325	1.240	1.162	1.250	4.95
69)	I	Chrysene-d12	----------	ISTD	----------				
70)		Benzidine						0.000#	-1.00
71)	M	Pyrene	1.392	1.496	1.615	1.596	1.586	1.537	6.07
72)	S	Terphenyl-d14	1.055	1.113	1.218	1.221	1.201	1.162	6.39
73)		Butylbenzylphthalate	0.845	0.802	0.897	0.974	1.033	0.910	10.31
74)		Benzo[a]anthracene	1.153	1.246	1.395	1.457	1.410	1.332	9.58
75)		3,3'-Dichlorobenzidine	0.057	0.060	0.080	0.073	0.077	0.069	14.63
76)		Chrysene	1.046	1.053	1.172	1.082	1.030	1.076	5.28
77)		bis(2-Ethylhexyl)phthalat	1.210	1.202	1.282	1.352	1.371	1.283	6.10
78)	I	Perylene-d12	----------	ISTD	----------				
79)	C	Di-n-octylphthalate	2.261	2.179	2.272	2.277	2.256	2.249	1.78
80)		Benzo[b]fluoranthene	1.120	1.140	1.341	1.304	1.395	1.260	9.77
81)		Benzo[k]fluoranthene	0.801	0.997	1.193	0.829	0.760	0.916	19.55
82)	C	Benzo[a]pyrene	1.012	1.023	1.205	1.174	1.126	1.108	7.88

00114

(#) = Out of Range

Response Factor Report BNA-GC/MS

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 11:46:04 1996
Response via : Initial Calibration

Calibration Files
5 =S7988.D 10 =S7989.D 20 =S7990.D
50 =S7991.D 80 =S7992.D

	Compound	5	10	20	50	80	Avg	%RSD
83)	Indeno[1,2,3-cd]pyrene	1.103	0.912	1.126	1.383	1.345	1.174	16.43
84)	Dibenz[a,h]anthracene.	0.780	0.912	1.043	0.969	0.921	0.925	10.39
85)	Benzo[g,h,i]perylene	0.920	0.935	1.091	1.093	1.057	1.019	8.36

00115

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 11:28:00 1996
Response via : Initial Calibration

Calibration Files
5 =S7988.D 10 =S7989.D 20 =S7990.D
50 =S7991.D 80 =S7992.D

		Compound	5	10	20	50	80	Avg	%RSD
42)		2,6-Dinitrotoluene	0.269	0.301	0.353	0.329	0.334	0.317	10.42
43)		3-Nitroaniline	0.101	0.104	0.133	0.107	0.096	0.108	13.37
44)	CM	Acenaphthene	0.982	0.996	1.082	0.915	0.880	0.971	8.04
45)	P	2,4-Dinitrophenol		0.080	0.150	0.194	0.198	0.156	35.32
46)		Dibenzofuran	1.600	1.530	1.701	1.519	1.354	1.541	8.25
47)	PM	4-Nitrophenol	0.056	0.089	0.121	0.126	0.123	0.103	29.24
48)	M	2,4-Dinitrotoluene	0.325	0.386	0.464	0.480	0.460	0.423	15.50
49)		Fluorene	1.223	1.291	1.331	1.209	1.179	1.247	5.00
50)		Diethylphthalate	1.131	1.201	1.275	1.174	1.081	1.172	6.24
51)		4-Chlorophenyl-phenylethe	0.504	0.502	0.543	0.497	0.470	0.503	5.23
52)	S	2,4,6-Tribromophenol	0.169	0.171	0.206	0.195	0.193	0.187	8.60
53)		4-Nitroaniline	0.091	0.108	0.009	0.013	0.013	0.047	103.59
54)	I	Phenanthrene-d10	----------		ISTD				
55)		4,6-Dinitro-2-methylpheno	0.071	0.096	0.139	0.157	0.167	0.126	32.77
56)	C	N-Nitrosodiphenylamine	0.458	0.422	0.456	0.385	0.341	0.412	12.03
57)		1,2-Diphenylhydrazine	0.057	0.056	0.056	0.045	0.040	0.051	15.41
58)		4-Bromophenyl-phenylether	0.204	0.212	0.230	0.229	0.219	0.219	5.05
59)		Hexachlorobenzene	0.271	0.259	0.284	0.281	0.264	0.272	3.94
60)	CM	Pentachlorophenol	0.138	0.148	0.178	0.190	0.189	0.169	14.29
61)		Phenanthrene	1.152	1.104	1.159	1.075	0.981	1.094	6.57
62)		Anthracene	1.132	1.079	1.130	1.000	0.900	1.048	9.42
63)		Di-n-butylphthalate	1.650	1.687	1.877	1.839	1.693	1.749	5.80
64)	C	Fluoranthene	1.290	1.235	1.325	1.240	1.162	1.250	4.95
65)	I	Chrysene-d12	----------		ISTD				
66)	M	Pyrene	1.392	1.496	1.615	1.596	1.586	1.537	6.07
67)	S	Terphenyl-d14	1.055	1.113	1.218	1.221	1.201	1.162	6.39
68)		Butylbenzylphthalate	0.845	0.802	0.897	0.974	1.033	0.910	10.31
69)		Benzo[a]anthracene	1.153	1.246	1.395	1.457	1.410	1.332	9.58
70)		3,3'-Dichlorobenzidine	0.057	0.060	0.080	0.073	0.077	0.069	14.63
71)		Chrysene	1.046	1.053	1.172	1.082	1.030	1.076	5.28
72)		bis(2-Ethylhexyl)phthalat	1.210	1.202	1.282	1.352	1.371	1.283	6.10
73)	I	Perylene-d12	----------		ISTD				
74)	C	Di-n-octylphthalate	2.261	2.179	2.272	2.277	2.256	2.249	1.78
75)		Benzo[b]fluoranthene	1.120	1.140	1.341	1.304	1.395	1.260	9.77
76)		Benzo[k]fluoranthene	1.301	1.210	1.193	0.829	0.760	1.059	23.20
77)	C	Benzo[a]pyrene	1.012	1.023	1.205	1.174	1.126	1.108	7.88
78)		Indeno[1,2,3-cd]pyrene	1.103	0.912	1.126	1.383	1.345	1.174	16.43
79)		Dibenz[a,h]anthracene	0.780	0.912	1.043	0.969	0.921	0.925	10.39
80)		Benzo[g,h,i]perylene	0.920	0.935	1.091	1.093	1.057	1.019	8.36

00116

(#) = Out of Range

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7993.D
Acq Time : 4 Jun 96 10:07 pm
Sample : 100 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:50 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.10	152	398257	20.00	ng/uL	-0.01
21) Naphthalene-d8	10.73	136	1456600	20.00	ng/uL	0.00
36) Acenaphthene-d10	16.04	164	1030113	20.00	ng/uL	-0.01
57) Phenanthrene-d10	20.50	188	1529618	20.00	ng/uL	0.00
69) Chrysene-d12	28.65	240	1016694	20.00	ng/uL	-0.01
78) Perylene-d12	32.70	264	1153463	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.21	112	2926714	113.95	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.80	99	3381867	94.80	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.60	152	2152891	97.27	ng/uL	
22) Nitrobenzene-d5	8.82	82	2807651	94.27	ng/uL	
40) 2-Fluorobiphenyl	14.23	172	5335955	80.18	ng/uL	
55) 2,4,6-Tribromophenol	18.55	330	1027464	106.86	ng/uL	
72) Terphenyl-d14	25.67	244	6490847	109.90	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.83	94	3158630	89.25	ng/uL	96
9) bis(2-Chloroethyl)ether	6.72	93	3056745	94.93	ng/uL	91
10) 2-Chlorophenol	6.70	128	2764701	102.36	ng/uL	100
11) 1,3-Dichlorobenzene	6.98	146	2718007	94.49	ng/uL	97
12) 1,4-Dichlorobenzene	7.16	146	2840833	95.94	ng/uL	99
14) 1,2-Dichlorobenzene	7.65	146	2489217	89.77	ng/uL	98
15) Benzyl alcohol	7.85	108	2068332	116.60	ng/uL	98
16) 2-Methylphenol	8.37	108	2589725	107.03	ng/uL	94
17) 2,2'-oxybis(1-Chloropropan	8.21	45	3619901	103.76	ng/uL	98
18) Hexachloroethane	8.43	117	1349301	97.84	ng/uL	97
19) 3+4-Methyphenols	8.85	108	2247907	94.40	ng/uL	99
20) N-Nitroso-di-n-propylamine	8.73	70	2063765	107.53	ng/uL	97
23) Nitrobenzene	8.89	77	2513367	85.52	ng/uL	94
24) Isophorone	9.63	82	6567354	111.70	ng/uL	99
25) 2-Nitrophenol	9.80	139	1657201	122.49	ng/uL	98
26) 2,4-Dimethylphenol	10.31	107	2418957	102.56	ng/uL	99
27) bis(2-Chloroethoxy)methane	10.48	93	4043039	100.49	ng/uL	99
28) 2,4-Dichlorophenol	10.60	162	2335481	102.78	ng/uL	99
29) Benzoic Acid	11.34	105	1788001	174.06	ng/uL	98
30) 1,2,4-Trichlorobenzene	10.67	180	2256257	89.39	ng/uL	99
31) Naphthalene	10.80	128	6653989	91.90	ng/uL	100
32) 4-Chloroaniline	11.37	127	1006666	71.39	ng/uL	98
33) Hexachlorobutadiene	11.44	225	1206066	98.19	ng/uL	
34) 4-Chloro-3-methylphenol	13.00	107	2335736	99.48	ng/uL	
35) 2-Methylnaphthalene	12.90	142	5260020	97.14	ng/uL	100
37) Hexachlorocyclopentadiene	13.62	237	1457244	125.68	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7993.D
Acq Time : 4 Jun 96 10:07 pm
Sample : 100 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:50 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	2,4,6-Trichlorophenol	14.01	196	1790772	101.50	ng/uL	99
39)	2,4,5-Trichlorophenol	14.13	196	1821335	97.92	ng/uL	98
41)	2-Chloronaphthalene	14.34	162	4329573	83.80	ng/uL	98
42)	2-Nitroaniline	15.00	65	1856940	116.41	ng/uL	100
43)	Dimethylphthalate	15.79	163	6155451	95.89	ng/uL	100
44)	Acenaphthylene	15.57	152	8379626	92.05	ng/uL	100
45)	2,6-Dinitrotoluene	15.95	165	1636005	100.17	ng/uL	98
46)	3-Nitroaniline	16.38	138	601600	108.07	ng/uL	94
47)	Acenaphthene	16.18	153	4438774	88.74	ng/uL	99
48)	2,4-Dinitrophenol	16.61	184	1156951	144.40	ng/uL	97
49)	Dibenzofuran	16.68	168	6827118	86.02	ng/uL	99
50)	4-Nitrophenol	17.23	109	665079	125.33	ng/uL	96
51)	2,4-Dinitrotoluene	17.10	165	2445708	112.22	ng/uL	98
52)	Fluorene	17.72	166	5988234	93.27	ng/uL	100
53)	Diethylphthalate	18.00	149	5315883	88.04	ng/uL	98
54)	4-Chlorophenyl-phenylether	17.89	204	2375254	91.64	ng/uL	98
56)	4-Nitroaniline	18.24	138	83968	34.79	ng/uL	95
58)	4,6-Dinitro-2-methylphenol	18.32	198	1333696	138.41	ng/uL	97
59)	N-Nitrosodiphenylamine	18.38	169	2486178	78.83	ng/uL	99
61)	4-Bromophenyl-phenylether	19.34	248	1648837	98.51	ng/uL	95
62)	Hexachlorobenzene	19.64	284	2045195	98.34	ng/uL	98
63)	Pentachlorophenol	20.34	266	1469828	113.94	ng/uL	99
64)	Phenanthrene	20.59	178	7277593	86.97	ng/uL	99
65)	Anthracene	20.74	178	6297129	78.56	ng/uL	100
67)	Di-n-butylphthalate	22.97	149	12780548	95.53	ng/uL	99
68)	Fluoranthene	24.22	202	8547183	89.38	ng/uL	97
71)	Pyrene	24.86	202	8494404	108.71	ng/uL	99
73)	Butylbenzylphthalate	27.50	149	5756630	124.39	ng/uL	95
74)	Benzo[a]anthracene	28.62	228	7678242	113.38	ng/uL	98
75)	3,3'-Dichlorobenzidine	28.83	252	453134	128.66	ng/uL	97
76)	Chrysene	28.77	228	5097425	93.15	ng/uL	100
77)	bis(2-Ethylhexyl)phthalate	29.47	149	7491451	114.82	ng/uL	98
79)	Di-n-octylphthalate	31.29	149	13427260	103.50	ng/uL	100
80)	Benzo[b]fluoranthene	31.80	252	9541526	131.31	ng/uL	98
81)	Benzo[k]fluoranthene	31.80	252	9541526	139.55	ng/uL	94
82)	Benzo[a]pyrene	32.60	252	6861484	107.36	ng/uL	95
83)	Indeno[1,2,3-cd]pyrene	35.27	276	4991455	73.73	ng/uL	97
84)	Dibenz[a,h]anthracene	35.42	278	5380699	100.87	ng/uL	92
85)	Benzo[g,h,i]perylene	35.91	276	6319942	107.53	ng/uL	100

00118

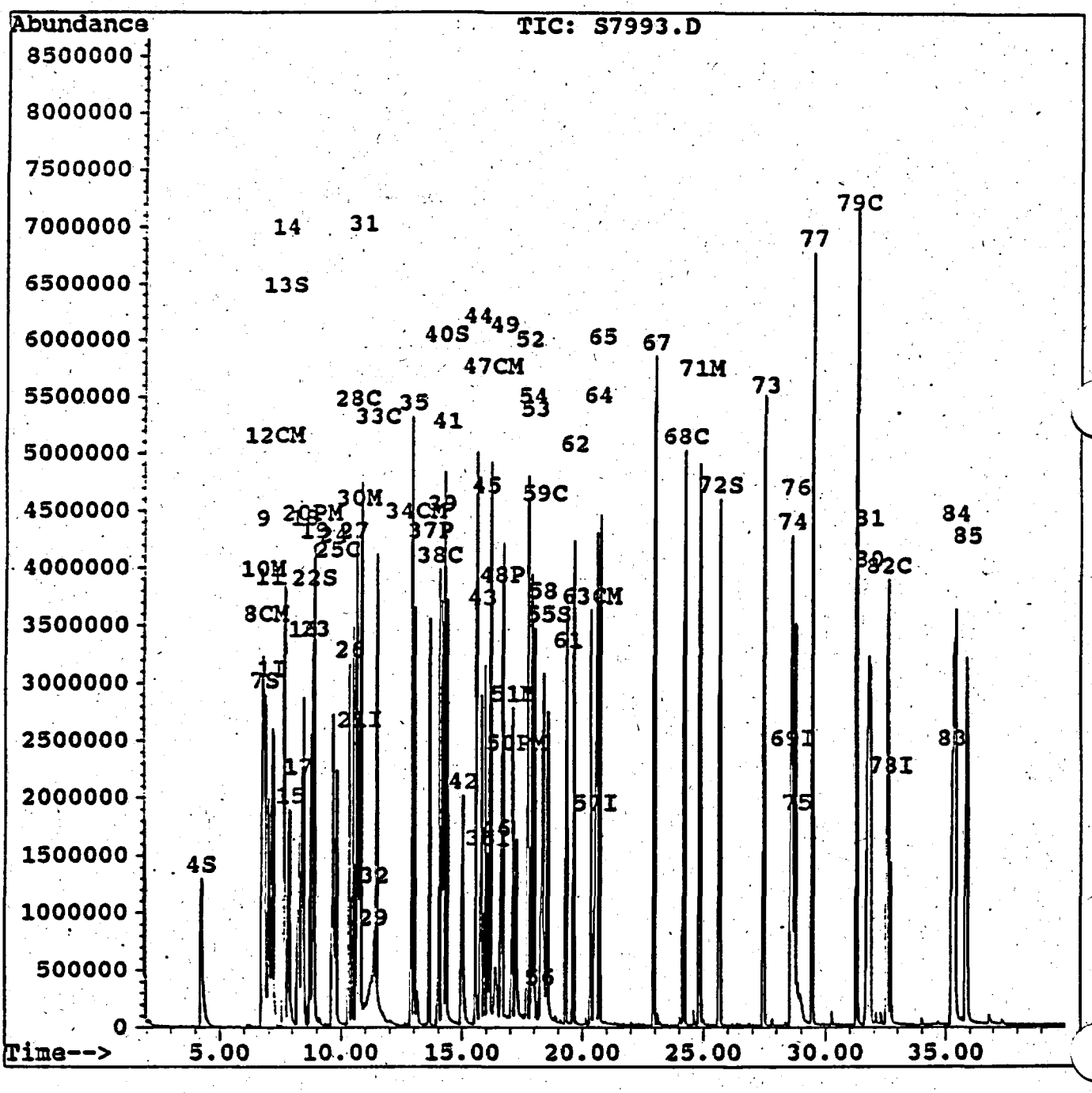
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7993.D
Acq Time : 4 Jun 96 10:07 pm
Sample : 100 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:50 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration



00119

AR320699

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7994.D
Acq Time : 4 Jun 96 10:59 pm
Sample : 120 PPM BNA ICC
Misc :
Quant Time: Jun 5 12:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	372603	20.00	ng/uL	0.00
19) Naphthalene-d8	10.75	136	1306114	20.00	ng/uL	0.00
34) Acenaphthene-d10	16.06	164	977968	20.00	ng/uL	0.00
55) Phenanthrene-d10	20.50	188	1442584	20.00	ng/uL	0.00
67) Chrysene-d12	28.67	240	935089	20.00	ng/uL	0.00
76) Perylene-d12	32.73	264	1046408	20.00	ng/uL	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.22	112	3403413	141.63	ng/uL	
4) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
5) Phenol-d5	6.81	99	3749337	112.34	ng/uL	
11) 1,2-Dichlorobenzene-d4	7.62	152	2447471	118.19	ng/uL	
20) Nitrobenzene-d5	8.83	82	3186938	119.34	ng/uL	
38) 2-Fluorobiphenyl	14.25	172	5623741	89.01	ng/uL	
53) 2,4,6-Tribromophenol	18.57	330	1165167	127.64	ng/uL	
70) Terphenyl-d14	25.68	244	7233032	133.16	ng/uL	
Target Compounds						Qvalue
6) Phenol	6.84	94	3457907	104.44	ng/uL	95
7) bis(2-Chloroethyl)ether	6.74	93	3390409	112.54	ng/uL	93
8) 2-Chlorophenol	6.71	128	3139439	124.24	ng/uL	99
9) 1,3-Dichlorobenzene	6.98	146	3197295	118.81	ng/uL	98
10) 1,4-Dichlorobenzene	7.16	146	3301146	119.17	ng/uL	99
12) 1,2-Dichlorobenzene	7.65	146	2735387	105.44	ng/uL	99
13) Benzyl alcohol	7.87	108	2444685	147.30	ng/uL	100
14) 2-Methylphenol	8.37	108	3043276	134.43	ng/uL	93
15) 2,2'-oxybis(1-Chloropropan	8.22	45	4283180	131.23	ng/uL	96
16) Hexachloroethane	8.45	117	1490927	115.55	ng/uL	99
17) 3+4-Methyphenols	8.86	108	2557645	114.80	ng/uL	99
18) N-Nitroso-di-n-propylamine	8.74	70	2360170	131.44	ng/uL	98
21) Nitrobenzene	8.91	77	2799859	106.25	ng/uL	97
22) Isophorone	9.65	82	7626438	144.66	ng/uL	99
23) 2-Nitrophenol	9.81	139	1842866	151.91	ng/uL	98
24) 2,4-Dimethylphenol	10.33	107	2920044	138.07	ng/uL	98
25) bis(2-Chloroethoxy)methane	10.49	93	4490537	124.48	ng/uL	99
26) 2,4-Dichlorophenol	10.61	162	2580851	126.66	ng/uL	99
27) Benzoic Acid	11.40	105	2314838	215.81	ng/uL	98
28) 1,2,4-Trichlorobenzene	10.69	180	2572785	113.67	ng/uL	98
29) Naphthalene	10.82	128	7182463	110.63	ng/uL	100
30) 4-Chloroaniline	11.38	127	1370499	79.29	ng/uL	98
31) Hexachlorobutadiene	11.46	225	1328091	120.59	ng/uL	100
32) 4-Chloro-3-methylphenol	13.02	107	2610621	124.00	ng/uL	98
33) 2-Methylnaphthalene	12.90	142	5804410	119.54	ng/uL	99
35) Hexachlorocyclopentadiene	13.62	237	1633543	148.39	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7994.D
Acq Time : 4 Jun 96 10:59 pm
Sample : 120 PPM BNA ICC
Misc :
Quant Time: Jun 5 12:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	2,4,6-Trichlorophenol	14.02	196	2097386	125.22	ng/uL	98
37)	2,4,5-Trichlorophenol	14.14	196	2040147	115.53	ng/uL	98
39)	2-Chloronaphthalene	14.35	162	4601875	93.82	ng/uL	98
40)	2-Nitroaniline	15.02	65	2213120	146.13	ng/uL	98
41)	Dimethylphthalate	15.82	163	6881127	112.92	ng/uL	99
42)	Acenaphthylene	15.58	152	9834912	113.80	ng/uL	100
43)	2,6-Dinitrotoluene	15.97	165	1875829	120.97	ng/uL	99
44)	3-Nitroaniline	16.40	138	747717	141.48	ng/uL	91
45)	Acenaphthene	16.18	153	5094446	107.28	ng/uL	99
46)	2,4-Dinitrophenol	16.62	184	1419508	186.61	ng/uL	96
47)	Dibenzofuran	16.70	168	7592478	100.77	ng/uL	100
48)	4-Nitrophenol	17.25	109	775059	153.85	ng/uL	96
49)	2,4-Dinitrotoluene	17.11	165	2828998	136.73	ng/uL	97
50)	Fluorene	17.74	166	6279017	103.01	ng/uL	100
51)	Diethylphthalate	18.02	149	5874480	102.48	ng/uL	[illegible]
52)	4-Chlorophenyl-phenylether	17.90	204	2568441	104.38	ng/uL	
56)	4,6-Dinitro-2-methylphenol	18.33	198	1630580	179.43	ng/uL	[illegible]
57)	N-Nitrosodiphenylamine	18.39	169	2794335	93.94	ng/uL	100
59)	4-Bromophenyl-phenylether	19.34	248	1932994	122.46	ng/uL	99
60)	Hexachlorobenzene	19.66	284	2260813	115.27	ng/uL	98
61)	Pentachlorophenol	20.35	266	1703368	140.01	ng/uL	99
62)	Phenanthrene	20.61	178	8457168	107.16	ng/uL	99
63)	Anthracene	20.76	178	7159182	94.70	ng/uL	99
65)	Di-n-butylphthalate	22.99	149	13551063	107.40	ng/uL	100
66)	Fluoranthene	24.24	202	9529728	105.67	ng/uL	96
69)	Pyrene	24.88	202	9215246	128.23	ng/uL	98
71)	Butylbenzylphthalate	27.50	149	6647888	156.19	ng/uL	99
72)	Benzo[a]anthracene	28.63	228	8670903	139.21	ng/uL	98
73)	3,3'-Dichlorobenzidine	28.82	252	505372	156.02	ng/uL	95
74)	Chrysene	28.78	228	5472298	108.73	ng/uL	99
75)	bis(2-Ethylhexyl)phthalate	29.48	149	8296237	138.25	ng/uL	98
77)	Di-n-octylphthalate	31.30	149	15452966	131.31	ng/uL	100
78)	Benzo[b]fluoranthene	31.82	252	13911153	211.04	ng/uL	97
79)	Benzo[k]fluoranthene	31.82	252	13911153	290.29	ng/uL	93
80)	Benzo[a]pyrene	32.62	252	7598116	131.04	ng/uL	94
81)	Indeno[1,2,3-cd]pyrene	35.28	276	3884780	63.26	ng/uL	98
82)	Dibenz[a,h]anthracene	35.44	278	5917647	122.28	ng/uL	91
83)	Benzo[g,h,i]perylene	35.92	276	6996444	131.22	ng/uL	100

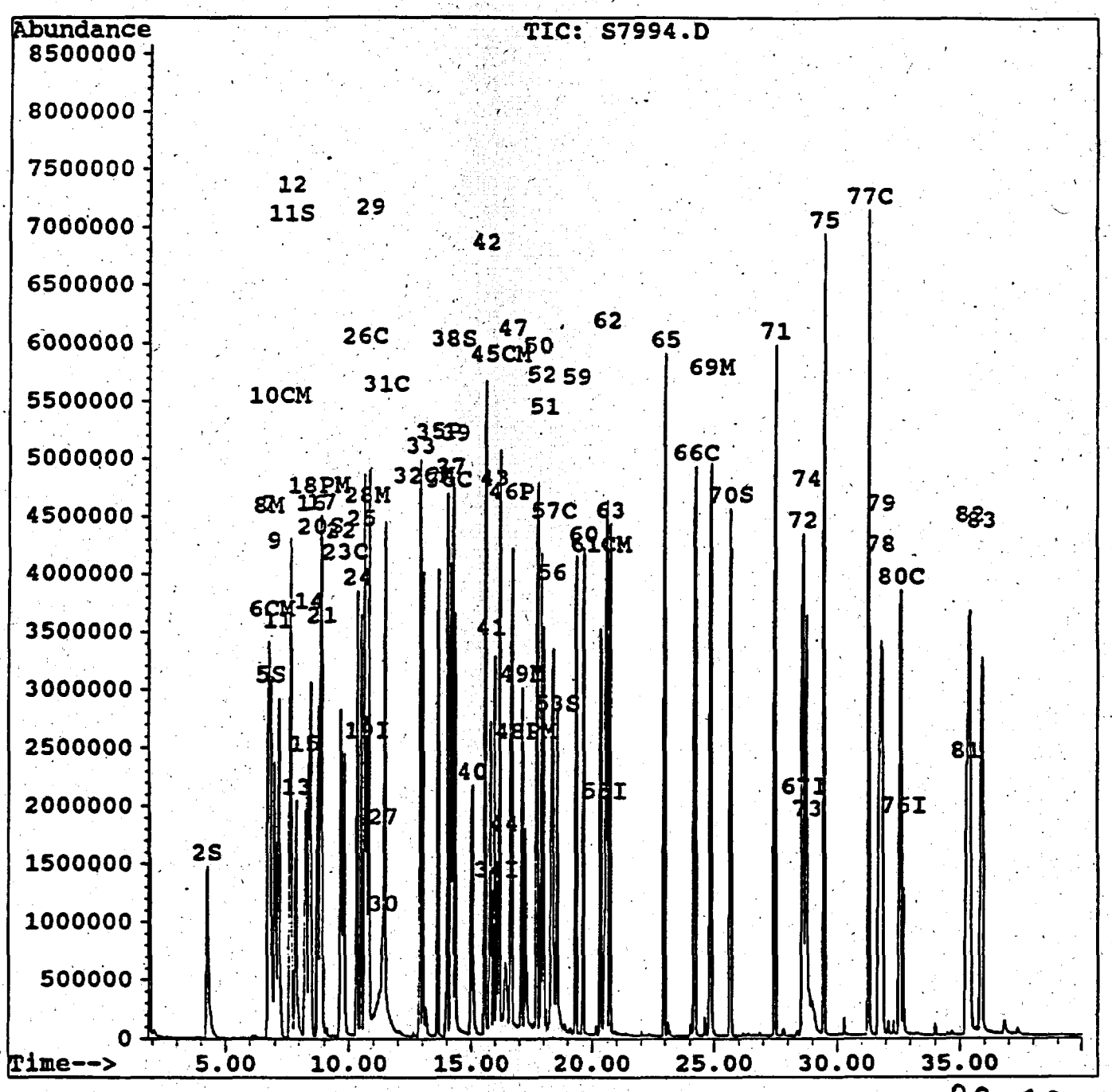
(#) = qualifier out of range (m) = manual integration
S7994.D LBNAICC2.M Wed Jun 05 12:39:26 1996 BNA: AR320701

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7994.D
Acq Time : 4 Jun 96 10:59 pm
Sample : 120 PPM BNA ICC
Misc :
Quant Time: Jun 5 12:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:34:37 1996
Response via : Multiple Level Calibration



001122

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7988.D
Acq Time : 4 Jun 96 5:49 pm
Sample : 5 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	474311	20.00	ng/uL	-0.01
21) Naphthalene-d8	10.71	136	1713929	20.00	ng/uL	-0.03
36) Acenaphthene-d10	16.02	164	1115118	20.00	ng/uL	-0.04
57) Phenanthrene-d10	20.46	188	1568503	20.00	ng/uL	-0.04
69) Chrysene-d12	28.59	240	1419097	20.00	ng/uL	-0.07
78) Perylene-d12	32.65	264	1365021	20.00	ng/uL	-0.07
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.22	112	126455	3.39	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.75	99	197152	4.53	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.60	152	132490	5.04	ng/uL	
22) Nitrobenzene-d5	8.78	82	172326	5.04	ng/uL	
40) 2-Fluorobiphenyl	14.17	172	377357	5.85	ng/uL	
55) 2,4,6-Tribromophenol	18.51	330	47079	3.71	ng/uL	
72) Terphenyl-d14	25.61	244	374279	4.29	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.78	94	206752	4.89	ng/uL	92
9) bis(2-Chloroethyl)ether	6.72	93	179319	4.81	ng/uL	89
10) 2-Chlorophenol	6.71	128	147493	4.36	ng/uL	93
11) 1,3-Dichlorobenzene	6.98	146	169372	4.44	ng/uL	99
12) 1,4-Dichlorobenzene	7.12	146	176313	4.65	ng/uL	98
14) 1,2-Dichlorobenzene	7.63	146	174396	4.86	ng/uL	99
15) Benzyl alcohol	7.80	108	88380	3.38	ng/uL	93
16) 2-Methylphenol	8.34	108	139640	3.51	ng/uL	97
17) 2,2'-oxybis(1-Chloropropan	8.19	45	193718	3.73	ng/uL	94
18) Hexachloroethane	8.43	117	80179	4.22	ng/uL	97
19) 3+4-Methyphenols	8.80	108	141755	3.62	ng/uL	96
20) N-Nitroso-di-n-propylamine	8.59	70	108643	4.18	ng/uL	96
23) Nitrobenzene	8.83	77	179159	5.17	ng/uL	91
24) Isophorone	9.55	82	315870	3.39	ng/uL	99
25) 2-Nitrophenol	9.77	139	58683	2.59	ng/uL	97
26) 2,4-Dimethylphenol	10.25	107	130579	3.57	ng/uL	98
27) bis(2-Chloroethoxy)methane	10.43	93	217991	3.58	ng/uL	95
28) 2,4-Dichlorophenol	10.56	162	124440	3.87	ng/uL	99
29) Benzoic Acid	10.74	105	58131	2.30	ng/uLm	57
30) 1,2,4-Trichlorobenzene	10.65	180	149391	4.76	ng/uL	99
31) Naphthalene	10.75	128	448864	5.23	ng/uL	99
32) 4-Chloroaniline	11.28	127	69769	1.69	ng/uL	[illegible]
33) Hexachlorobutadiene	11.43	225	66024	4.11	ng/uL	
34) 4-Chloro-3-methylphenol	12.99	107	126701	3.82	ng/uL	[illegible]
35) 2-Methylnaphthalene	12.85	142	296285	4.27	ng/uL	98
37) Hexachlorocyclopentadiene	13.61	237	45329	2.60	ng/uL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7988.D
Acq Time : 4 Jun 96 5:49 pm
Sample : 5 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	2,4,6-Trichlorophenol	13.98	196	87493	3.83	ng/uL	98
39)	2,4,5-Trichlorophenol	14.13	196	96023	3.69	ng/uL	97
41)	2-Chloronaphthalene	14.29	162	300856	4.93	ng/uL	99
42)	2-Nitroaniline	14.94	65	68383	3.03	ng/uL	95
43)	Dimethylphthalate	15.71	163	332499	4.24	ng/uL	99
44)	Acenaphthylene	15.53	152	494685	4.49	ng/uL	99
45)	2,6-Dinitrotoluene	15.86	165	74868	3.52	ng/uL	95
47)	Acenaphthene	16.11	153	273899	5.00	ng/uL	98
49)	Dibenzofuran	16.63	168	446159	4.90	ng/uL	100
50)	4-Nitrophenol	17.23	109	15732	2.11	ng/uL	91
51)	2,4-Dinitrotoluene	17.01	165	90657	2.93	ng/uL	99
52)	Fluorene	17.66	166	340935	4.58	ng/uL	98
53)	Diethylphthalate	17.90	149	315171	4.33	ng/uL	98
54)	4-Chlorophenyl-phenylether	17.84	204	140531	4.64	ng/uL	97
56)	4-Nitroaniline	18.28	138	25253	1.38	ng/uL	88
58)	4,6-Dinitro-2-methylphenol	18.21	198	27734	2.46	ng/uL	98
59)	N-Nitrosodiphenylamine	18.30	169	179458	6.37	ng/uL	100
61)	4-Bromophenyl-phenylether	19.29	248	79955	4.05	ng/uL	93
62)	Hexachlorobenzene	19.57	284	106411	4.23	ng/uL	97
63)	Pentachlorophenol	20.27	266	54211	2.46	ng/uL	98
64)	Phenanthrene	20.52	178	451756	5.13	ng/uL	99
65)	Anthracene	20.65	178	443737	5.02	ng/uL	100
67)	Di-n-butylphthalate	22.93	149	647162	4.00	ng/uL	99
68)	Fluoranthene	24.16	202	505678	5.09	ng/uL	97
71)	Pyrene	24.78	202	493800	3.97	ng/uL	95
73)	Butylbenzylphthalate	27.44	149	299960	3.08	ng/uL	99
74)	Benzo[a]anthracene	28.53	228	408947	3.64	ng/uL	97
75)	3,3'-Dichlorobenzidine	28.82	252	20255	1.25	ng/uL	91
76)	Chrysene	28.65	228	370969	4.82	ng/uL	100
77)	bis(2-Ethylhexyl)phthalate	29.42	149	429187	3.54	ng/uL	95
79)	Di-n-octylphthalate	31.21	149	771614	3.68	ng/uL	99
80)	Benzo[b]fluoranthene	31.66	252	382237	4.08	ng/uL	99
81)	Benzo[k]fluoranthene	31.72	252	273297	3.91	ng/uLm	98
82)	Benzo[a]pyrene	32.49	252	345412	3.82	ng/uL	96
83)	Indeno[1,2,3-cd]pyrene	35.21	276	376477	4.49	ng/uL	97
84)	Dibenz[a,h]anthracene	35.30	278	266303	4.37	ng/uL	97
85)	Benzo[g,h,i]perylene	35.76	276	313876	4.61	ng/uL	99

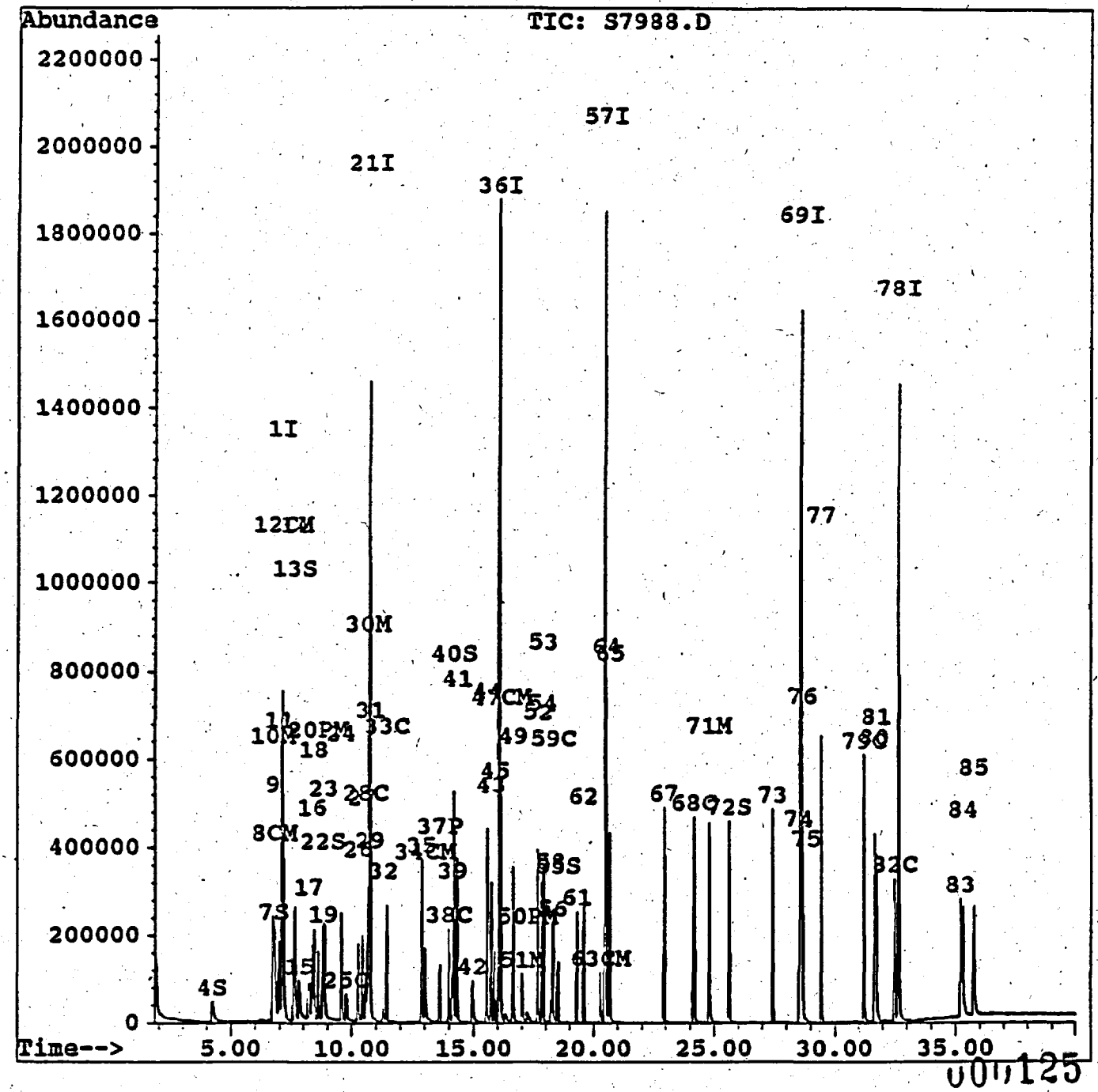
(#) = qualifier out of range (m) = manual integration
S7988.D LBNAICC.M Wed Jun 05 12:04:13 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7988.D
Acq Time : 4 Jun 96 5:49 pm
Sample : 5 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:33 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration



00125

S7988.D LBNAICC.M Wed Jun 05 12:04:25 1996 BNA2

AR320705

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7989.D
Acq Time : 4 Jun 96 6:41 pm
Sample : 10 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	513947	20.00	ng/uL	-0.01
21) Naphthalene-d8	10.71	136	1876397	20.00	ng/uL	-0.03
36) Acenaphthene-d10	16.04	164	1209122	20.00	ng/uL	-0.02
57) Phenanthrene-d10	20.46	188	1748348	20.00	ng/uL	-0.04
69) Chrysene-d12	28.60	240	1529681	20.00	ng/uL	-0.06
78) Perylene-d12	32.65	264	1562778	20.00	ng/uL	-0.07
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.21	112	295820	7.31	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.75	99	450437	9.54	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.58	152	272930	9.58	ng/uL	
22) Nitrobenzene-d5	8.78	82	376139	10.05	ng/uL	
40) 2-Fluorobiphenyl	14.17	172	824968	11.80	ng/uL	
55) 2,4,6-Tribromophenol	18.51	330	103391	7.52	ng/uL	
72) Terphenyl-d14	25.61	244	851421	9.04	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.77	94	453669	9.90	ng/uL	94
9) bis(2-Chloroethyl)ether	6.71	93	406248	10.06	ng/uL	89
10) 2-Chlorophenol	6.71	128	329739	9.00	ng/uL	99
11) 1,3-Dichlorobenzene	6,98	146	362636	8.78	ng/uL	96
12) 1,4-Dichlorobenzene	7.14	146	369324	8.99	ng/uL	97
14) 1,2-Dichlorobenzene	7.63	146	354938	9.12	ng/uL	99
15) Benzyl alcohol	7.79	108	202721	7.16	ng/uL	93
16) 2-Methylphenol	8.34	108	313162	7.26	ng/uL	91
17) 2,2'-oxybis(1-Chloropropan	8.19	45	407452	7.24	ng/uL	98
18) Hexachloroethane	8.43	117	172769	8.39	ng/uL	95
19) 3+4-Methyphenols	8.80	108	304374	7.17	ng/uL	100
20) N-Nitroso-di-n-propylamine	8.60	70	228928	8.13	ng/uL	97
23) Nitrobenzene	8.83	77	376727	9.93	ng/uL	95
24) Isophorone	9.55	82	685330	6.72	ng/uL	100
25) 2-Nitrophenol	9.76	139	141583	5.70	ng/uL	95
26) 2,4-Dimethylphenol	10.23	107	274651	6.87	ng/uL	96
27) bis(2-Chloroethoxy)methane	10.43	93	472438	7.09	ng/uL	97
28) 2,4-Dichlorophenol	10.54	162	271762	7.73	ng/uL	96
29) Benzoic Acid	10.80	105	140086	5.07	ng/uLm	89
30) 1,2,4-Trichlorobenzene	10.65	180	317436	9.25	ng/uL	99
31) Naphthalene	10.75	128	941071	10.02	ng/uL	100
32) 4-Chloroaniline	11.24	127	258575	5.71	ng/uL	99
33) Hexachlorobutadiene	11.43	225	148683	8.46	ng/uL	99
34) 4-Chloro-3-methylphenol	12.97	107	284098	7.83	ng/uL	97
35) 2-Methylnaphthalene	12.85	142	671842	8.85	ng/uL	99
37) Hexachlorocyclopentadiene	13.61	237	109999	5.82	ng/uL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7989.D
Acq Time : 4 Jun 96 6:41 pm
Sample : 10 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	2,4,6-Trichlorophenol	13.98	196	198636	8.02	ng/uL	98
39)	2,4,5-Trichlorophenol	14.11	196	210139	7.45	ng/uL	97
41)	2-Chloronaphthalene	14.29	162	618887	9.36	ng/uL	99
42)	2-Nitroaniline	14.93	65	165753	6.77	ng/uL	90
43)	Dimethylphthalate	15.71	163	742328	8.74	ng/uL	100
44)	Acenaphthylene	15.53	152	1044976	8.75	ng/uL	99
45)	2,6-Dinitrotoluene	15.86	165	181747	7.88	ng/uL	94
46)	3-Nitroaniline	16.29	138	62598	3.53	ng/uL	89
47)	Acenaphthene	16.11	153	602027	10.14	ng/uL	98
48)	2,4-Dinitrophenol	16.56	184	48213	4.37	ng/uL	97
49)	Dibenzofuran	16.61	168	925028	9.36	ng/uL	98
50)	4-Nitrophenol	17.18	109	53585	6.63	ng/uL	97
51)	2,4-Dinitrotoluene	17.01	165	233645	6.96	ng/uL	95
52)	Fluorene	17.67	166	780448	9.68	ng/uL	99
53)	Diethylphthalate	17.90	149	725911	9.20	ng/uL	100
54)	4-Chlorophenyl-phenylether	17.84	204	303766	9.25	ng/uL	
56)	4-Nitroaniline	18.23	138	65593	3.29	ng/uL	
58)	4,6-Dinitro-2-methylphenol	18.20	198	83561	6.65	ng/uL	94
59)	N-Nitrosodiphenylamine	18.30	169	369004	11.75	ng/uL	99
61)	4-Bromophenyl-phenylether	19.29	248	185449	8.42	ng/uL	100
62)	Hexachlorobenzene	19.58	284	226432	8.07	ng/uL	98
63)	Pentachlorophenol	20.27	266	129192	5.27	ng/uL	100
64)	Phenanthrene	20.52	178	964785	9.83	ng/uL	100
65)	Anthracene	20.66	178	942917	9.58	ng/uL	99
67)	Di-n-butylphthalate	22.93	149	1475065	8.17	ng/uL	99
68)	Fluoranthene	24.16	202	1079258	9.74	ng/uL	96
71)	Pyrene	24.78	202	1143912	8.53	ng/uL	97
73)	Butylbenzylphthalate	27.44	149	613716	5.84	ng/uL	100
74)	Benzo[a]anthracene	28.54	228	953265	7.87	ng/uL	98
75)	3,3'-Dichlorobenzidine	28.82	252	45896	2.64	ng/uL	93
76)	Chrysene	28.66	228	805336	9.72	ng/uL	100
77)	bis(2-Ethylhexyl)phthalate	29.43	149	919381	7.03	ng/uL	97
79)	Di-n-octylphthalate	31.22	149	1702877	7.09	ng/uL	99
80)	Benzo[b]fluoranthene	31.66	252	890603	8.30	ng/uL	99
81)	Benzo[k]fluoranthene	31.74	252	778793	9.73	ng/uLm	96
82)	Benzo[a]pyrene	32.49	252	799658	7.73	ng/uL	97
83)	Indeno[1,2,3-cd]pyrene	35.21	276	712656	7.42	ng/uL	99
84)	Dibenz[a,h]anthracene	35.30	278	712569	10.20	ng/uL	93
85)	Benzo[g,h,i]perylene	35.76	276	730407	9.37	ng/uL	99

V0#127

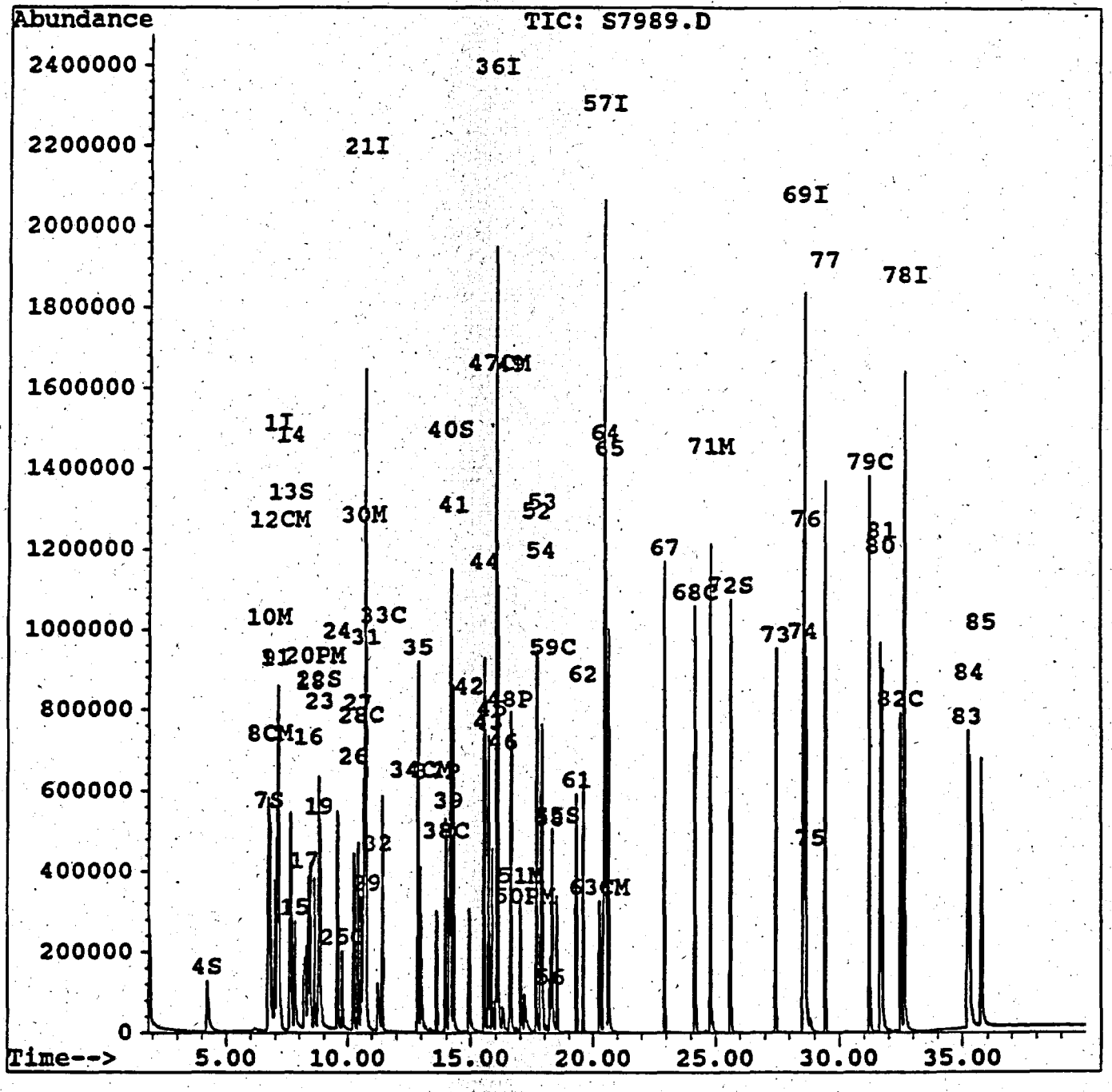
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7989.D
Acq Time : 4 Jun 96 6:41 pm
Sample : 10 PPM BNA ICC
Misc :
Quant Time: Jun 5 11:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration



U0U128

AR320708

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7990.D
Acq Time : 4 Jun 96 7:33 pm
Sample : 20 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:25 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	503442	20.00	ng/uL	-0.02
21) Naphthalene-d8	10.71	136	1876338	20.00	ng/uL	-0.03
36) Acenaphthene-d10	16.04	164	1220643	20.00	ng/uL	-0.02
57) Phenanthrene-d10	20.47	188	1787938	20.00	ng/uL	-0.03
69) Chrysene-d12	28.61	240	1521566	20.00	ng/uL	-0.06
78) Perylene-d12	32.66	264	1570185	20.00	ng/uL	-0.06
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.20	112	709911	17.91	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.75	99	993461	21.48	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.59	152	602546	21.60	ng/uL	
22) Nitrobenzene-d5	8.78	82	809450	21.64	ng/uL	
40) 2-Fluorobiphenyl	14.19	172	1725744	24.46	ng/uL	
55) 2,4,6-Tribromophenol	18.51	330	251006	18.09	ng/uL	
72) Terphenyl-d14	25.62	244	1853150	19.79	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.78	94	987070	21.99	ng/uL	96
9) bis(2-Chloroethyl)ether	6.72	93	899272	22.73	ng/uL	97
10) 2-Chlorophenol	6.71	128	735745	20.50	ng/uL	99
11) 1,3-Dichlorobenzene	6.97	146	779884	19.27	ng/uL	96
12) 1,4-Dichlorobenzene	7.14	146	809735	20.13	ng/uL	99
14) 1,2-Dichlorobenzene	7.62	146	751459	19.71	ng/uL	98
15) Benzyl alcohol	7.79	108	495526	17.85	ng/uL	99
16) 2-Methylphenol	8.34	108	680232	16.11	ng/uL	94
17) 2,2'-oxybis(1-Chloropropan	8.20	45	957145	17.37	ng/uL	99
18) Hexachloroethane	8.42	117	376492	18.66	ng/uL	94
19) 3+4-Methyphenols	8.80	108	634977	15.27	ng/uL	100
20) N-Nitroso-di-n-propylamine	8.62	70	517273	18.76	ng/uL	99
23) Nitrobenzene	8.83	77	804803	21.22	ng/uL	89
24) Isophorone	9.57	82	1601647	15.71	ng/uL	98
25) 2-Nitrophenol	9.76	139	371369	14.96	ng/uL	96
26) 2,4-Dimethylphenol	10.25	107	637144	15.93	ng/uL	99
27) bis(2-Chloroethoxy)methane	10.42	93	1119949	16.81	ng/uL	99
28) 2,4-Dichlorophenol	10.54	162	637335	18.13	ng/uL	99
29) Benzoic Acid	10.93	105	245117	8.86	ng/uL	99
30) 1,2,4-Trichlorobenzene	10.65	180	699017	20.36	ng/uL	98
31) Naphthalene	10.77	128	1919474	20.44	ng/uL	99
32) 4-Chloroaniline	11.24	127	557720	12.32	ng/uL	99
33) Hexachlorobutadiene	11.43	225	334495	19.03	ng/uL	
34) 4-Chloro-3-methylphenol	12.97	107	649989	17.91	ng/uL	
35) 2-Methylnaphthalene	12.85	142	1520728	20.04	ng/uL	100
37) Hexachlorocyclopentadiene	13.61	237	299847	15.70	ng/uL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7990.D
Acq Time : 4 Jun 96 7:33 pm
Sample : 20 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:25 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	2,4,6-Trichlorophenol	13.98	196	447775	17.91	ng/uL	98
39)	2,4,5-Trichlorophenol	14.10	196	492209	17.28	ng/uL	98
41)	2-Chloronaphthalene	14.31	162	1344961	20.14	ng/uL	98
42)	2-Nitroaniline	14.94	65	413393	16.72	ng/uL	99
43)	Dimethylphthalate	15.73	163	1655283	19.31	ng/uL	99
44)	Acenaphthylene	15.54	152	2384167	19.78	ng/uL	100
45)	2,6-Dinitrotoluene	15.88	165	431466	18.53	ng/uL	92
46)	3-Nitroaniline	16.31	138	162167	9.06	ng/uL	94
47)	Acenaphthene	16.13	153	1320681	22.04	ng/uL	99
48)	2,4-Dinitrophenol	16.54	184	183641	16.47	ng/uL	97
49)	Dibenzofuran	16.63	168	2076528	20.82	ng/uL	99
50)	4-Nitrophenol	17.15	109	147911	18.13	ng/uL	92
51)	2,4-Dinitrotoluene	17.02	165	566190	16.71	ng/uL	95
52)	Fluorene	17.67	166	1624300	19.95	ng/uL	100
53)	Diethylphthalate	17.92	149	1556397	19.53	ng/uL	99
54)	4-Chlorophenyl-phenylether	17.85	204	663019	20.01	ng/uL	96
58)	4,6-Dinitro-2-methylphenol	18.22	198	249055	19.39	ng/uL	96
59)	N-Nitrosodiphenylamine	18.31	169	815164	25.39	ng/uL	98
61)	4-Bromophenyl-phenylether	19.30	248	410620	18.23	ng/uL	98
62)	Hexachlorobenzene	19.60	284	507759	17.69	ng/uL	98
63)	Pentachlorophenol	20.28	266	318720	12.71	ng/uL	97
64)	Phenanthrene	20.53	178	2071366	20.65	ng/uL	99
65)	Anthracene	20.66	178	2020343	20.07	ng/uL	99
67)	Di-n-butylphthalate	22.94	149	3356218	18.19	ng/uL	100
68)	Fluoranthene	24.17	202	2369466	20.90	ng/uL	98
71)	Pyrene	24.80	202	2457909	18.42	ng/uL	98
73)	Butylbenzylphthalate	27.45	149	1364220	13.05	ng/uL	98
74)	Benzo[a]anthracene	28.56	228	2123247	17.62	ng/uL	98
75)	3,3'-Dichlorobenzidine	28.81	252	121209	7.00	ng/uL	97
76)	Chrysene	28.68	228	1783743	21.63	ng/uL	100
77)	bis(2-Ethylhexyl)phthalate	29.44	149	1951051	15.01	ng/uL	97
79)	Di-n-octylphthalate	31.23	149	3568060	14.78	ng/uL	99
80)	Benzo[b]fluoranthene	31.69	252	2105200	19.54	ng/uL	97
81)	Benzo[k]fluoranthene	31.76	252	1872996	23.30	ng/uL	94
82)	Benzo[a]pyrene	32.50	252	1892472	18.20	ng/uL	99
83)	Indeno[1,2,3-cd]pyrene	35.24	276	1768087	18.32	ng/uL	97
84)	Dibenz[a,h]anthracene	35.31	278	1637448	23.34	ng/uL	96
85)	Benzo[g,h,i]perylene	35.79	276	1712290	21.86	ng/uL	99

00130

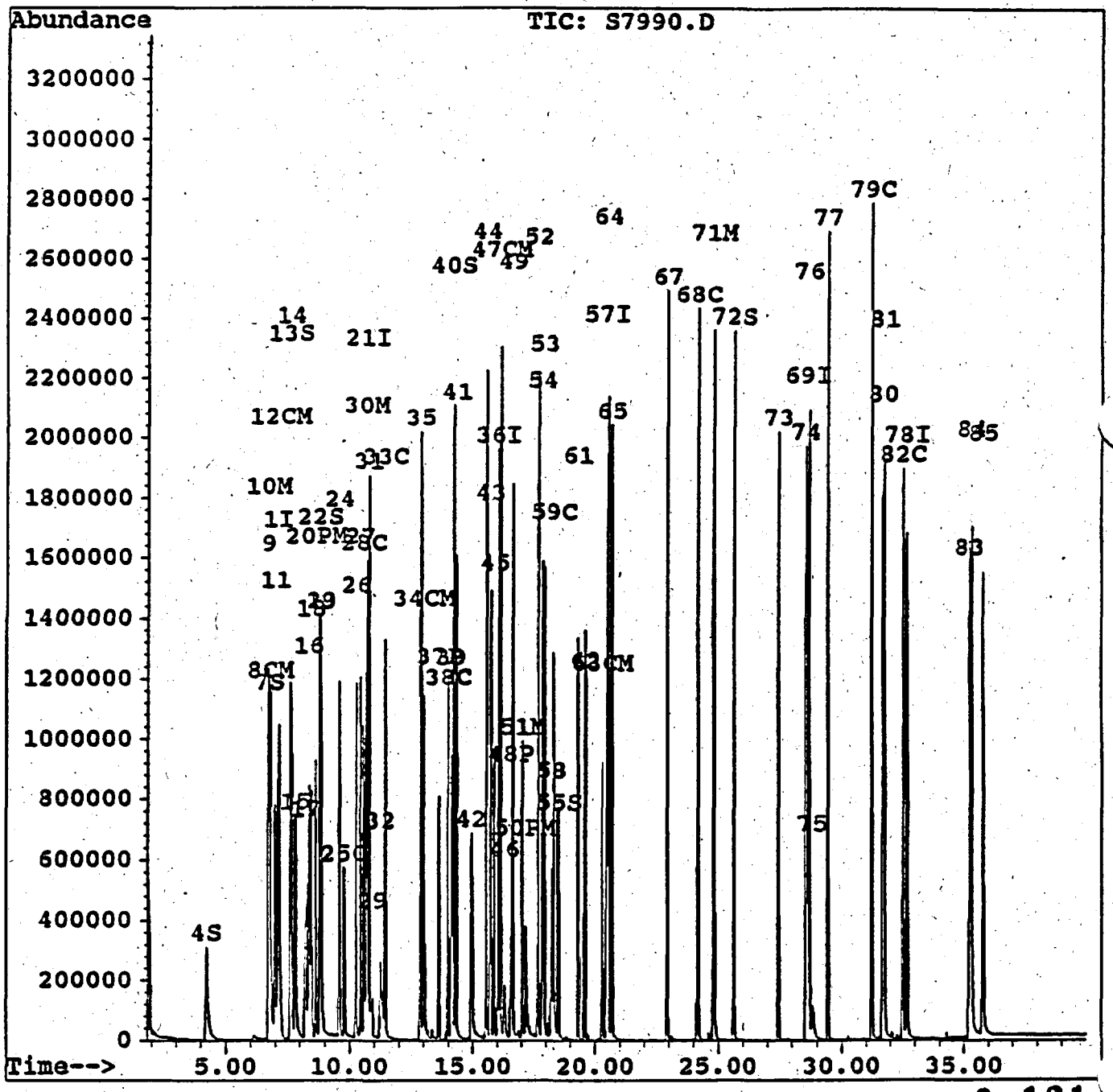
(#) = qualifier out of range (m) = manual integration
S7990.D LBNAICC.M Wed Jun 05 12:21:22 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7990.D
Acq Time : 4 Jun 96 7:33 pm
Sample : 20 PPM BNA ICC
Misc :
Quant Time: Jun 4 22:25 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration



00131

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7991.D
Acq Time : 4 Jun 96 8:24 pm
Sample : 50 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:00 1996

Operator:
Inst : BNA-GC/M
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.10	152	459669	20.00	ng/uL	-0.01
21) Naphthalene-d8	10.73	136	1660038	20.00	ng/uL	-0.01
36) Acenaphthene-d10	16.03	164	1155828	20.00	ng/uL	-0.02
57) Phenanthrene-d10	20.48	188	1669491	20.00	ng/uL	-0.02
69) Chrysene-d12	28.63	240	1292140	20.00	ng/uL	-0.04
78) Perylene-d12	32.68	264	1405901	20.00	ng/uL	-0.04
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.21	112	1651714	45.63	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.77	99	2074269	49.13	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.60	152	1282859	50.36	ng/uL	
22) Nitrobenzene-d5	8.80	82	1684892	50.90	ng/uL	
40) 2-Fluorobiphenyl	14.21	172	3433385	51.38	ng/uL	
55) 2,4,6-Tribromophenol	18.53	330	564501	42.95	ng/uL	
72) Terphenyl-d14	25.65	244	3945624	49.62	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.80	94	1997774	48.75	ng/uL	98
9) bis(2-Chloroethyl)ether	6.72	93	1869200	51.75	ng/uL	94
10) 2-Chlorophenol	6.69	128	1624297	49.57	ng/uL	98
11) 1,3-Dichlorobenzene	6.98	146	1670480	45.22	ng/uL	97
12) 1,4-Dichlorobenzene	7.14	146	1718882	46.80	ng/uL	99
14) 1,2-Dichlorobenzene	7.63	146	1586088	45.56	ng/uL	99
15) Benzyl alcohol	7.81	108	1116771	44.07	ng/uL	97
16) 2-Methylphenol	8.34	108	1568723	40.68	ng/uL	92
17) 2,2'-oxybis(1-Chloropropan	8.21	45	2156153	42.85	ng/uL	97
18) Hexachloroethane	8.43	117	813585	44.16	ng/uL	95
19) 3+4-Methyphenols	8.81	108	1373237	36.18	ng/uL	99
20) N-Nitroso-di-n-propylamine	8.67	70	1168220	46.41	ng/uL	99
23) Nitrobenzene	8.86	77	1660529	49.50	ng/uL	93
24) Isophorone	9.59	82	3582898	39.72	ng/uL	98
25) 2-Nitrophenol	9.78	139	900831	41.03	ng/uL	98
26) 2,4-Dimethylphenol	10.27	107	1420701	40.15	ng/uL	99
27) bis(2-Chloroethoxy)methane	10.46	93	2385551	40.48	ng/uL	97
28) 2,4-Dichlorophenol	10.56	162	1375283	44.21	ng/uL	97
29) Benzoic Acid	11.11	105	815796	33.34	ng/uL	98
30) 1,2,4-Trichlorobenzene	10.67	180	1445189	47.58	ng/uL	98
31) Naphthalene	10.79	128	4016963	48.36	ng/uL	100
32) 4-Chloroaniline	11.34	127	1239603	30.94	ng/uLm	100
33) Hexachlorobutadiene	11.44	225	740837	47.63	ng/uL	98
34) 4-Chloro-3-methylphenol	12.98	107	1434538	44.68	ng/uL	99
35) 2-Methylnaphthalene	12.88	142	3162090	47.09	ng/uL	99
37) Hexachlorocyclopentadiene	13.62	237	775026	42.87	ng/uL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7991.D
Acq Time : 4 Jun 96 8:24 pm
Sample : 50 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:00 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 2,4,6-Trichlorophenol	13.99	196	1042720	44.05	ng/uL	98
39) 2,4,5-Trichlorophenol	14.11	196	1068283	39.61	ng/uL	99
41) 2-Chloronaphthalene	14.31	162	2643043	41.80	ng/uL	99
42) 2-Nitroaniline	14.97	65	999204	42.69	ng/uL	95
43) Dimethylphthalate	15.75	163	3682699	45.36	ng/uL	99
44) Acenaphthylene	15.56	152	5015601	43.95	ng/uL	100
45) 2,6-Dinitrotoluene	15.92	165	951688	43.17	ng/uL	87
46) 3-Nitroaniline	16.33	138	310144	18.30	ng/uL	99
47) Acenaphthene	16.15	153	2644554	46.61	ng/uL	99
48) 2,4-Dinitrophenol	16.57	184	560809	53.12	ng/uL	97
49) Dibenzofuran	16.66	168	4388448	46.48	ng/uL	99
50) 4-Nitrophenol	17.18	109	364064	47.12	ng/uL	98
51) 2,4-Dinitrotoluene	17.06	165	1386545	43.22	ng/uL	94
52) Fluorene	17.70	166	3492734	45.30	ng/uL	100
53) Diethylphthalate	17.96	149	3392312	44.96	ng/uL	
54) 4-Chlorophenyl-phenylether	17.87	204	1435552	45.75	ng/uL	
56) 4-Nitroaniline	18.19	138	37769	1.98	ng/uL	
58) 4,6-Dinitro-2-methylphenol	18.26	198	657054	54.78	ng/uL	93
59) N-Nitrosodiphenylamine	18.33	169	1606329	53.58	ng/uL	99
61) 4-Bromophenyl-phenylether	19.31	248	955929	45.44	ng/uL	98
62) Hexachlorobenzene	19.61	284	1173453	43.79	ng/uL	98
63) Pentachlorophenol	20.31	266	791654	33.81	ng/uL	98
64) Phenanthrene	20.56	178	4486551	47.89	ng/uL	100
65) Anthracene	20.69	178	4175479	44.41	ng/uL	100
67) Di-n-butylphthalate	22.96	149	7674410	44.54	ng/uL	99
68) Fluoranthene	24.20	202	5175315	48.90	ng/uL	95
71) Pyrene	24.82	202	5156695	45.50	ng/uL	98
73) Butylbenzylphthalate	27.47	149	3146389	35.46	ng/uL	98
74) Benzo[a]anthracene	28.58	228	4706244	46.00	ng/uL	99
75) 3,3'-Dichlorobenzidine	28.80	252	235480	16.01	ng/uL	95
76) Chrysene	28.72	228	3494282	49.91	ng/uL	100
77) bis(2-Ethylhexyl)phthalate	29.44	149	4367597	39.56	ng/uL	98
79) Di-n-octylphthalate	31.25	149	8004622	37.03	ng/uL	100
80) Benzo[b]fluoranthene	31.72	252	4583719	47.51	ng/uL	97
81) Benzo[k]fluoranthene	31.81	252	2913573	40.48	ng/uL	94
82) Benzo[a]pyrene	32.55	252	4127831	44.35	ng/uL	98
83) Indeno[1,2,3-cd]pyrene	35.27	276	4861106	56.25	ng/uL	99
84) Dibenz[a,h]anthracene	35.36	278	3405229	54.21	ng/uL	94
85) Benzo[g,h,i]perylene	35.84	276	3842670	54.79	ng/uL	100

000133

(#) = qualifier out of range (m) = manual integration
S7991.D LBNAICC.M Wed Jun 05 12:24:07 1996 BNA2

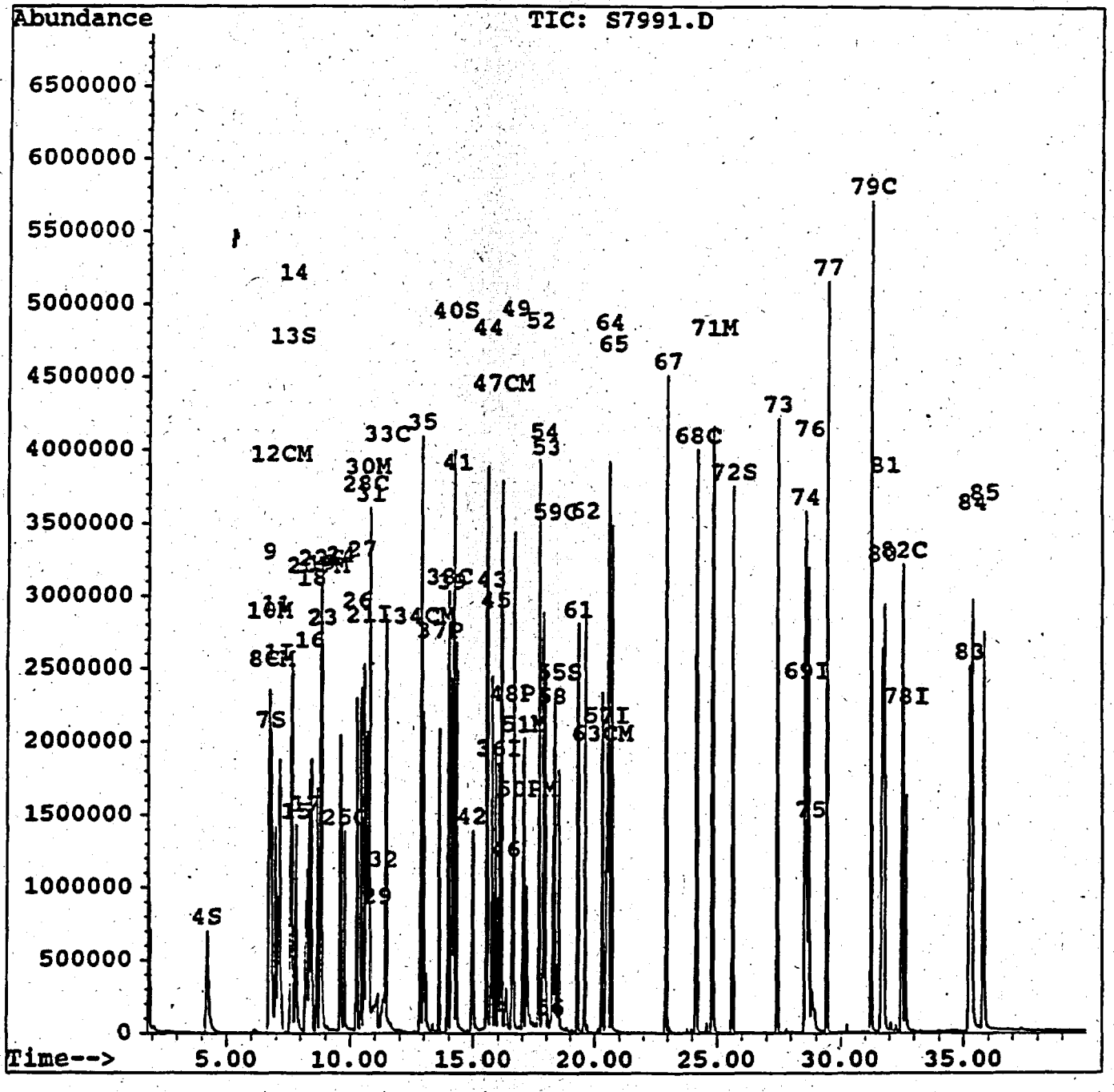
AR320713

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7991.D
Acq Time : 4 Jun 96 8:24 pm
Sample : 50 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:00 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7992.D
Acq Time : 4 Jun 96 9:16 pm
Sample : 80 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:07 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.10	152	384622	20.00	ng/uL	-0.01
21) Naphthalene-d8	10.73	136	1360842	20.00	ng/uL	0.00
36) Acenaphthene-d10	16.04	164	960576	20.00	ng/uL	-0.02
57) Phenanthrene-d10	20.49	188	1405418	20.00	ng/uL	-0.01
69) Chrysene-d12	28.64	240	1004187	20.00	ng/uL	-0.03
78) Perylene-d12	32.68	264	1121399	20.00	ng/uL	-0.04
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.21	112	2129689	70.31	ng/uL	
6) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/uL	
7) Phenol-d5	6.77	99	2712590	76.79	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.60	152	1638520	76.87	ng/uL	
22) Nitrobenzene-d5	8.80	82	2200120	81.09	ng/uL	
40) 2-Fluorobiphenyl	14.21	172	4381553	78.90	ng/uL	
55) 2,4,6-Tribromophenol	18.55	330	739746	67.73	ng/uL	
72) Terphenyl-d14	25.66	244	4826077	78.09	ng/uL	
Target Compounds						Qvalue
8) Phenol	6.81	94	2581331	75.28	ng/uL	100
9) bis(2-Chloroethyl)ether	6.72	93	2429772	80.40	ng/uL	94
10) 2-Chlorophenol	6.69	128	2122834	77.43	ng/uL	100
11) 1,3-Dichlorobenzene	6.98	146	2123251	68.68	ng/uL	97
12) 1,4-Dichlorobenzene	7.14	146	2163942	70.41	ng/uL	98
14) 1,2-Dichlorobenzene	7.63	146	1903823	65.36	ng/uL	98
15) Benzyl alcohol	7.82	108	1483060	69.94	ng/uL	98
16) 2-Methylphenol	8.36	108	1481776	45.93	ng/uL	94
17) 2,2'-oxybis(1-Chloropropan	8.21	45	2712109	64.41	ng/uL	97
18) Hexachloroethane	8.43	117	1013373	65.73	ng/uL	96
19) 3+4-Methyphenols	8.83	108	1758448	55.36	ng/uL	99
20) N-Nitroso-di-n-propylamine	8.68	70	1489196	70.70	ng/uL	98
23) Nitrobenzene	8.88	77	2007793	73.00	ng/uL	95
24) Isophorone	9.60	82	4636251	62.70	ng/uL	99
25) 2-Nitrophenol	9.78	139	1230109	68.34	ng/uL	96
26) 2,4-Dimethylphenol	10.28	107	1849779	63.76	ng/uL	99
27) bis(2-Chloroethoxy)methane	10.46	93	3146403	65.12	ng/uL	99
28) 2,4-Dichlorophenol	10.58	162	1681538	65.94	ng/uL	99
29) Benzoic Acid	11.20	105	1137981	56.74	ng/uL	97
30) 1,2,4-Trichlorobenzene	10.67	180	1769968	71.08	ng/uL	98
31) Naphthalene	10.79	128	5057989	74.27	ng/uL	100
32) 4-Chloroaniline	11.34	127	1572820	47.89	ng/uLm	100
33) Hexachlorobutadiene	11.44	225	946473	74.24	ng/uL	
34) 4-Chloro-3-methylphenol	13.00	107	1748828	66.44	ng/uL	
35) 2-Methylnaphthalene	12.88	142	4014692	72.93	ng/uL	100
37) Hexachlorocyclopentadiene	13.62	237	1026689	68.33	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7992.D
Acq Time : 4 Jun 96 9:16 pm
Sample : 80 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:07 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 2,4,6-Trichlorophenol	14.00	196	1316605	66.92	ng/uL	100
39) 2,4,5-Trichlorophenol	14.12	196	1309343	58.41	ng/uL	97
41) 2-Chloronaphthalene	14.33	162	3442892	65.52	ng/uL	99
42) 2-Nitroaniline	14.98	65	1324192	68.07	ng/uL	97
43) Dimethylphthalate	15.77	163	4534766	67.21	ng/uL	100
44) Acenaphthylene	15.56	152	6321823	66.65	ng/uL	99
45) 2,6-Dinitrotoluene	15.92	165	1281481	69.95	ng/uL	100
46) 3-Nitroaniline	16.35	138	368900	26.19	ng/uL	96
47) Acenaphthene	16.16	153	3382258	71.73	ng/uL	99
48) 2,4-Dinitrophenol	16.59	184	760684	86.69	ng/uL	94
49) Dibenzofuran	16.66	168	5203142	66.31	ng/uL	98
50) 4-Nitrophenol	17.19	109	472226	73.54	ng/uL	96
51) 2,4-Dinitrotoluene	17.08	165	1768854	66.34	ng/uL	95
52) Fluorene	17.71	166	4531047	70.71	ng/uL	100
53) Diethylphthalate	17.97	149	4153906	66.25	ng/uL	99
54) 4-Chlorophenyl-phenylether	17.88	204	1804193	69.18	ng/uL	99
56) 4-Nitroaniline	18.20	138	50448	3.19	ng/uL	97
58) 4,6-Dinitro-2-methylphenol	18.28	198	938242	92.93	ng/uL	98
59) N-Nitrosodiphenylamine	18.35	169	1918795	76.04	ng/uL	100
61) 4-Bromophenyl-phenylether	19.32	248	1233928	69.68	ng/uL	98
62) Hexachlorobenzene	19.63	284	1484668	65.82	ng/uL	98
63) Pentachlorophenol	20.31	266	1064496	54.01	ng/uL	99
64) Phenanthrene	20.58	178	5517317	69.96	ng/uL	99
65) Anthracene	20.71	178	5057113	63.90	ng/uL	99
67) Di-n-butylphthalate	22.96	149	9515493	65.60	ng/uL	99
68) Fluoranthene	24.21	202	6532853	73.32	ng/uL	98
71) Pyrene	24.84	202	6371249	72.34	ng/uL	98
73) Butylbenzylphthalate	27.48	149	4150462	60.18	ng/uL	99
74) Benzo[a]anthracene	28.59	228	5663013	71.22	ng/uL	99
75) 3,3'-Dichlorobenzidine	28.81	252	308295	26.97	ng/uL	94
76) Chrysene	28.74	228	4136252	76.01	ng/uL	100
77) bis(2-Ethylhexyl)phthalate	29.45	149	5508194	64.19	ng/uL	98
79) Di-n-octylphthalate	31.26	149	10121538	58.70	ng/uL	100
80) Benzo[b]fluoranthene	31.75	252	6256419	81.30	ng/uL	98
81) Benzo[k]fluoranthene	31.82	252	3410530	59.40	ng/uLm	94
82) Benzo[a]pyrene	32.57	252	5049646	68.01	ng/uL	98
83) Indeno[1,2,3-cd]pyrene	35.28	276	6031684	87.50	ng/uL	99
84) Dibenz[a,h]anthracene	35.38	278	4130387	82.43	ng/uL	93
85) Benzo[g,h,i]perylene	35.86	276	4741557	84.76	ng/uL	99

00136

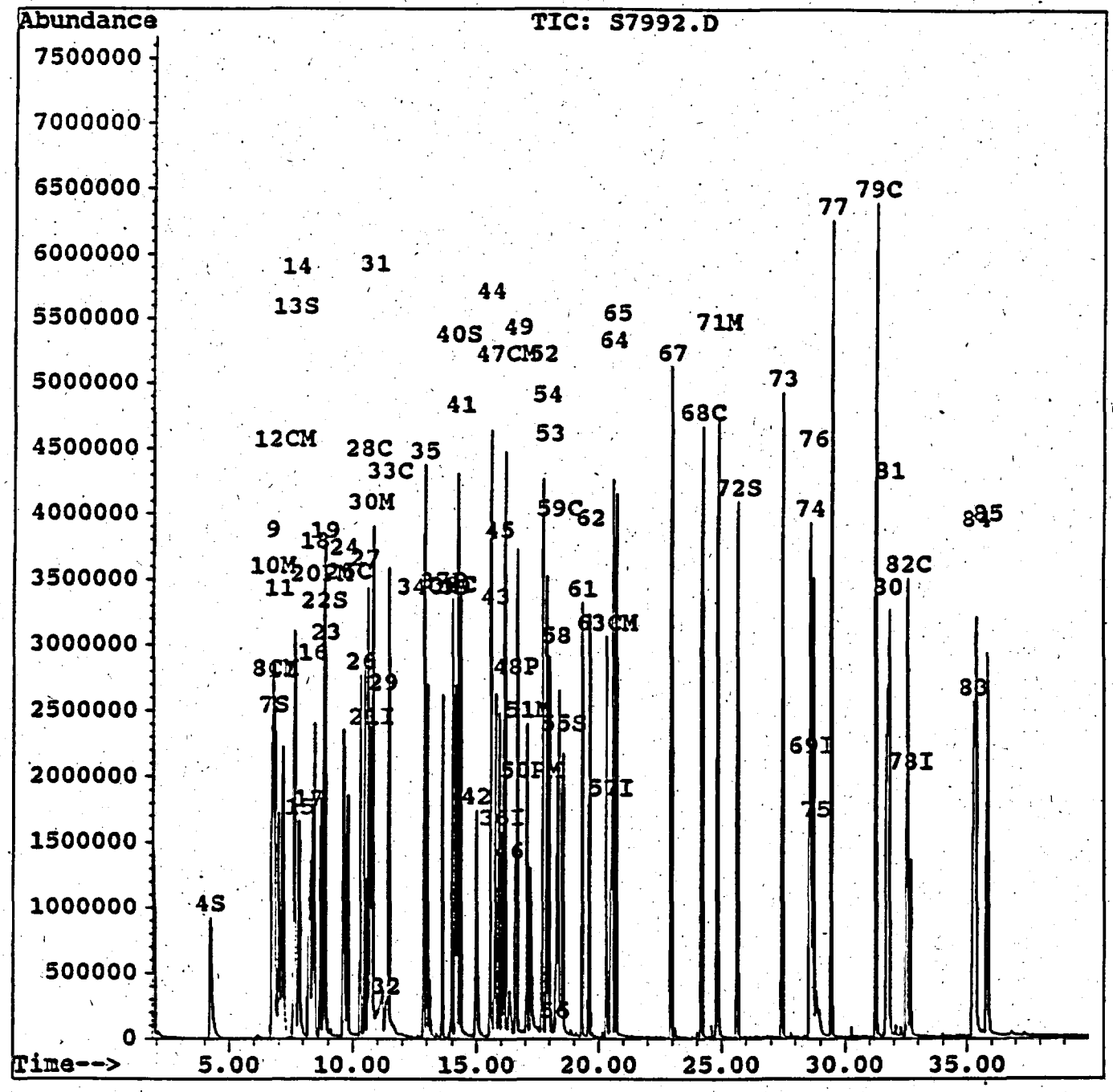
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7992.D
Acq Time : 4 Jun 96 9:16 pm
Sample : 80 PPM BNA ICC
Misc :
Quant Time: Jun 4 23:07 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 12:00:11 1996
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 5 21:17 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	468225	20.00	ng/uL	0.00
18) Naphthalene-d8	10.72	136	1827602	20.00	ng/uL	-0.02
33) Acenaphthene-d10	16.04	164	1187140	20.00	ng/uL	-0.02
54) Phenanthrene-d10	20.47	188	1703015	20.00	ng/uL	-0.03
65) Chrysene-d12	28.62	240	1495453	20.00	ng/uL	-0.04
73) Perylene-d12	32.68	264	1519895	20.00	ng/uL	-0.04
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.22	112	633677	20.98	ng/uL	
4) Phenol-d5	6.75	99	911604	21.74	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.60	152	571052	21.94	ng/uL	
19) Nitrobenzene-d5	8.80	82	813019	21.76	ng/uL	
37) 2-Fluorobiphenyl	14.19	172	1618111	21.10	ng/uL	
52) 2,4,6-Tribromophenol	18.52	330	246311	20.92	ng/uL	
67) Terphenyl-d14	25.62	244	1864767	21.47	ng/uL	
Target Compounds						Qvalue
5) Phenol	6.78	94	918487	22.08	ng/uL	95
6) bis(2-Chloroethyl)ether	6.72	93	768154	20.29	ng/uL	91
7) 2-Chlorophenol	6.71	128	669135	21.07	ng/uL	98
8) 1,3-Dichlorobenzene	6.97	146	745918	22.06	ng/uL	97
9) 1,4-Dichlorobenzene	7.14	146	769150	22.09	ng/uL	99
11) 1,2-Dichlorobenzene	7.63	146	735920	22.57	ng/uL	99
12) Benzyl alcohol	7.81	108	468132	22.45	ng/uL	97
13) 2-Methylphenol	8.34	108	642515	22.59	ng/uL	92
14) 2,2'-oxybis(1-Chloropropan	8.20	45	915817	22.33	ng/uL	99
15) Hexachloroethane	8.44	117	362111	22.33	ng/uL	98
16) 3+4-Methyphenols	8.80	108	668167	24.30	ng/uL	98
17) N-Nitroso-di-n-propylamine	8.63	70	508601	22.54	ng/uL	98
20) Nitrobenzene	8.84	77	801064	21.72	ng/uL	95
21) Isophorone	9.57	82	1608554	21.81	ng/uL	99
22) 2-Nitrophenol	9.77	139	424434	25.00	ng/uL	99
23) 2,4-Dimethylphenol	10.25	107	595158	20.11	ng/uL	99
24) bis(2-Chloroethoxy)methane	10.44	93	1067707	21.15	ng/uL	98
25) 2,4-Dichlorophenol	10.56	162	620015	21.75	ng/uL	97
26) Benzoic Acid	10.98	105	338065	22.52	ng/uL	97
27) 1,2,4-Trichlorobenzene	10.66	180	645528	20.38	ng/uL	98
28) Naphthalene	10.77	128	1887080	20.77	ng/uL	99
29) 4-Chloroaniline	11.26	127	501766	20.75	ng/uL	98
30) Hexachlorobutadiene	11.45	225	324719	21.07	ng/uL	100
31) 4-Chloro-3-methylphenol	12.99	107	633129	21.49	ng/uL	93
32) 2-Methylnaphthalene	12.87	142	1474769	21.71	ng/uL	99
34) Hexachlorocyclopentadiene	13.61	237	300692	22.50	ng/uL	100
35) 2,4,6-Trichlorophenol	13.98	196	421181	20.71	ng/uL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 5 21:17 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) 2,4,5-Trichlorophenol	14.11	196	444944	20.65	ng/uL	96
38) 2-Chloronaphthalene	14.31	162	1273632	21.39	ng/uL	99
39) 2-Nitroaniline	14.94	65	453696	21.63	ng/uL	89
40) Dimethylphthalate	15.73	163	1625966	21.98	ng/uL	98
41) Acenaphthylene	15.54	152	2363776	22.53	ng/uL	99
42) 2,6-Dinitrotoluene	15.88	165	430681	22.88	ng/uL	99
43) 3-Nitroaniline	16.31	138	121921	17.69	ng/uL	98
44) Acenaphthene	16.13	153	1186297	20.58	ng/uL	99
45) 2,4-Dinitrophenol	16.56	184	231270	19.31	ng/uL	94
46) Dibenzofuran	16.63	168	2048598	22.40	ng/uL	99
47) 4-Nitrophenol	17.17	109	130464	17.41	ng/uL	96
48) 2,4-Dinitrotoluene	17.03	165	585214	23.30	ng/uL	92
49) Fluorene	17.67	166	1563401	21.13	ng/uL	98
50) Diethylphthalate	17.94	149	1587321	22.81	ng/uL	99
51) 4-Chlorophenyl-phenylether	17.86	204	652603	21.85	ng/uL	98
53) 4-Nitroaniline	18.16	138	24404	21.12	ng/uLm	
55) 4,6-Dinitro-2-methylphenol	18.22	198	301678	21.44	ng/uL	98
56) N-Nitrosodiphenylamine	18.32	169	916132	26.09	ng/uL	98
57) 1,2-Diphenylhydrazine	18.22	77	56721	13.16	ng/uLm	1
58) 4-Bromophenyl-phenylether	19.30	248	432390	23.20	ng/uL	98
59) Hexachlorobenzene	19.60	284	521478	22.52	ng/uL	100
60) Pentachlorophenol	20.28	266	297429	18.46	ng/uL	98
61) Phenanthrene	20.54	178	2061939	22.13	ng/uL	100
62) Anthracene	20.68	178	2061671	23.10	ng/uL	99
63) Di-n-butylphthalate	22.96	149	3553023	23.85	ng/uL	99
64) Fluoranthene	24.17	202	2360422	22.17	ng/uL	99
66) Pyrene	24.80	202	2345745	20.41	ng/uL	98
68) Butylbenzylphthalate	27.45	149	1554472	22.84	ng/uL	96
69) Benzo[a]anthracene	28.56	228	2056736	20.65	ng/uL	100
70) 3,3'-Dichlorobenzidine	28.82	252	147449	28.46	ng/uL	99
71) Chrysene	28.70	228	1712979	21.28	ng/uL	99
72) bis(2-Ethylhexyl)phthalate	29.44	149	2154276	22.45	ng/uL	97
74) Di-n-octylphthalate	31.23	149	3808330	22.28	ng/uL	100
75) Benzo[b]fluoranthene	31.69	252	1986789	20.75	ng/uL	98
76) Benzo[k]fluoranthene	31.76	252	1451505	20.85	ng/uLm	96
77) Benzo[a]pyrene	32.52	252	1816964	21.57	ng/uL	93
78) Indeno[1,2,3-cd]pyrene	35.24	276	1657378	18.58	ng/uL	96
79) Dibenz[a,h]anthracene	35.31	278	1460876	20.78	ng/uL	97
80) Benzo[g,h,i]perylene	35.79	276	1618754	20.90	ng/uL	99

00139

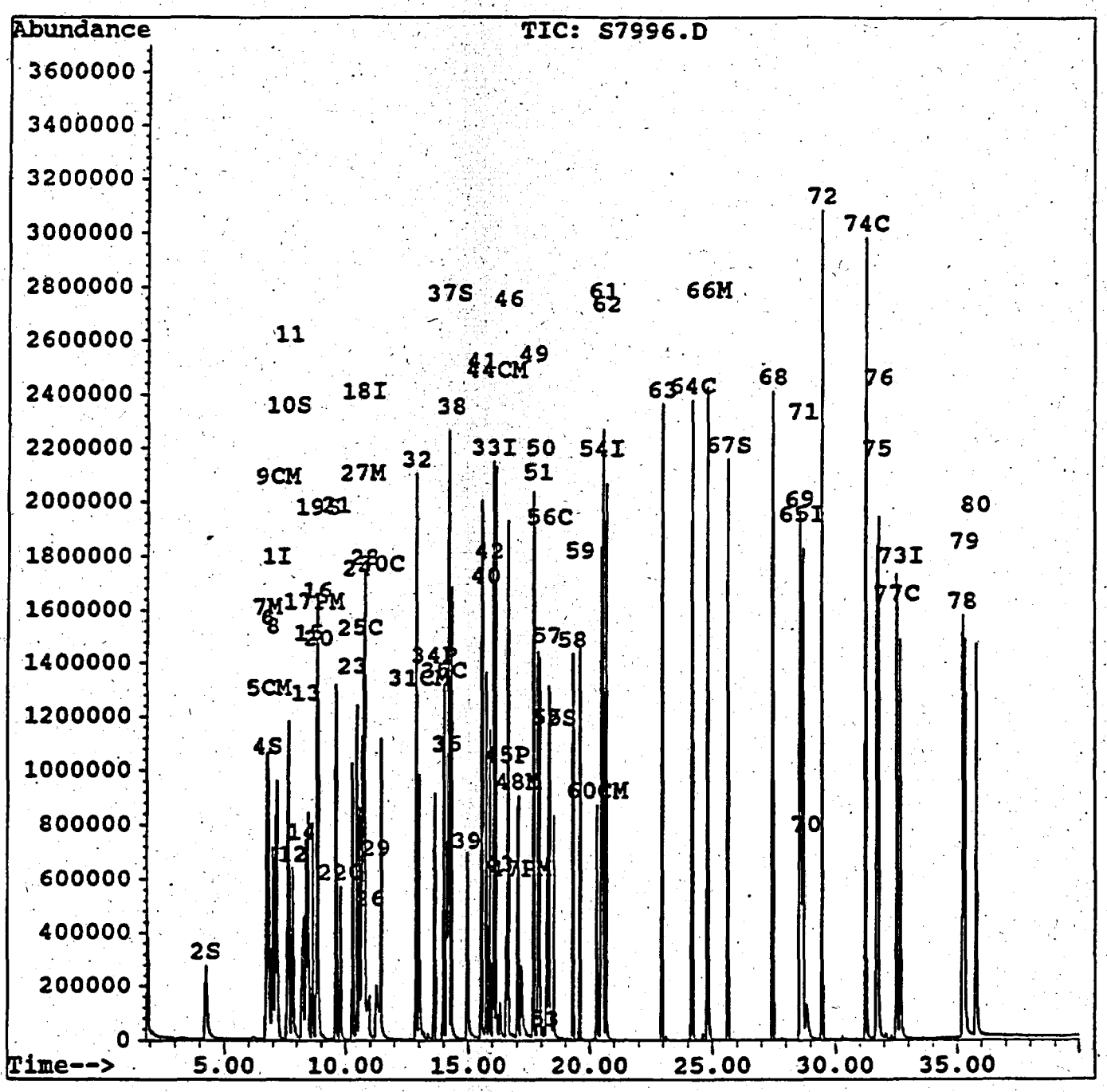
(#) = qualifier out of range (m) = manual integration
S7996.D LBNAICC2.M Wed Jun 05 21:23:33 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 5 21:17 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration



U01140

S7996.D LBNAICC2.M Wed Jun 05 21:23:46 1996 BNA2

AR320720

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2	S	2-Fluorophenol	1.290	1.353	-4.9	89	0.02
3		Aniline	1.617	1.641	-1.5	85	0.24
4	S	Phenol-d5	1.791	1.947	-8.7	92	-0.01
5	CM	Phenol	1.777	1.962	-10.4	93	-0.01
6		bis(2-Chloroethyl)ether	1.617	1.641	-1.5	85	-0.01
7	M	2-Chlorophenol	1.356	1.429	-5.4	91	0.00
8		1,3-Dichlorobenzene	1.444	1.593	-10.3	96	-0.02
9	CM	1,4-Dichlorobenzene	1.487	1.643	-10.5	95	-0.02
10	S	1,2-Dichlorobenzene-d4	1.112	1.220	-9.7	95	-0.01
11		1,2-Dichlorobenzene	1.392	1.572	-12.9	98	-0.01
12		Benzyl alcohol	0.891	1.000	-12.2	94	0.00
13		2-Methylphenol	1.215	1.372	-12.9	94	-0.01
14		2,2'-oxybis(1-Chloropropane	1.752	1.956	-11.6	96	-0.01
15		Hexachloroethane	0.693	0.773	-11.7	96	0.00
16		3+4-Methyphenols	1.174	1.427	-21.5	105	-0.01
17	PM	N-Nitroso-di-n-propylamine	0.964	1.086	-12.7	98	-0.03
18	I	Naphthalene-d8	1.000	1.000	0.0	97	-0.02
19	S	Nitrobenzene-d5	0.409	0.445	-8.8	100	-0.01
20		Nitrobenzene	0.404	0.438	-8.6	100	-0.01
21		Isophorone	0.807	0.880	-9.0	100	-0.03
22	C	2-Nitrophenol	0.186	0.232	-25.0#	114	-0.02
23		2,4-Dimethylphenol	0.324	0.326	-0.6	93	-0.03
24		bis(2-Chloroethoxy)methane	0.552	0.584	-5.8	95	-0.03
25	C	2,4-Dichlorophenol	0.312	0.339	-8.7	97	-0.02
26		Benzoic Acid	0.164	0.185	-12.6	138	-0.18
27	M	1,2,4-Trichlorobenzene	0.347	0.353	-1.9	92	-0.02
28		Naphthalene	0.994	1.033	-3.9	98	-0.03
29		4-Chloroaniline	0.265	0.275	-3.7	90	0.00
30	C	Hexachlorobutadiene	0.169	0.178	-5.4	97	0.00
31	CM	4-Chloro-3-methylphenol	0.322	0.346	-7.5	97	0.00
32		2-Methylnaphthalene	0.744	0.807	-8.5	97	-0.02
33	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.02
34	P	Hexachlorocyclopentadiene	0.225	0.253	-12.5	100	-0.02
35	C	2,4,6-Trichlorophenol	0.343	0.355	-3.6	94	-0.02
36		2,4,5-Trichlorophenol	0.363	0.375	-3.3	90	0.00
37	S	2-Fluorobiphenyl	1.292	1.363	-5.5	94	-0.03
38		2-Chloronaphthalene	1.003	1.073	-7.0	95	-0.02
39		2-Nitroaniline	0.353	0.382	-8.2	110	-0.02
40		Dimethylphthalate	1.246	1.370	-9.9	98	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm Operator:
Sample : 20 PPM BNA CCC Inst : BNA-GC/MS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.767	1.991	-12.7	99	-0.03
42		2,6-Dinitrotoluene	0.317	0.363	-14.4	100	-0.05
43		3-Nitroaniline	0.116	0.103	11.5	75	0.01
44	CM	Acenaphthene	0.971	0.999	-2.9	90	-0.03
45	P	2,4-Dinitrophenol	0.202	0.195	3.5	126	-0.02
46		Dibenzofuran	1.541	1.726	-12.0	99	-0.03
47	PM	4-Nitrophenol	0.126	0.110	13.0	88	-0.02
48	M	2,4-Dinitrotoluene	0.423	0.493	-16.5	103	-0.03
49		Fluorene	1.247	1.317	-5.7	96	-0.03
50		Diethylphthalate	1.172	1.337	-14.1	102	-0.03
51		4-Chlorophenyl-phenylether	0.503	0.550	-9.2	98	-0.02
52	S	2,4,6-Tribromophenol	0.198	0.207	-4.6	98	-0.03
53		4-Nitroaniline	0.019	0.021	-5.6	222#	-0.03
54	I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.03
55		4,6-Dinitro-2-methylphenol	0.165	0.177	-7.2	121	-0.06
56	C	N-Nitrosodiphenylamine	0.412	0.538	-30.5#	112	-0.02
57		1,2-Diphenylhydrazine	0.051	0.033	34.2	57	-0.12
58		4-Bromophenyl-phenylether	0.219	0.254	-16.0	105	-0.03
59		Hexachlorobenzene	0.272	0.306	-12.6	103	-0.03
60	CM	Pentachlorophenol	0.189	0.175	7.7	93	-0.03
61		Phenanthrene	1.094	1.211	-10.7	100	-0.03
62		Anthracene	1.048	1.211	-15.5	102	-0.03
63		Di-n-butylphthalate	1.749	2.086	-19.3	106	-0.02
64	C	Fluoranthene	1.250	1.386	-10.9	100	-0.04
65	I	Chrysene-d12	1.000	1.000	0.0	98	-0.04
66	M	Pyrene	1.537	1.569	-2.1	95	-0.04
67	S	Terphenyl-d14	1.162	1.247	-7.3	101	-0.04
68		Butylbenzylphthalate	0.910	1.039	-14.2	114	-0.04
69		Benzo[a]anthracene	1.332	1.375	-3.2	97	-0.04
70		3,3'-Dichlorobenzidine	0.069	0.099	-42.3	122	0.00
71		Chrysene	1.076	1.145	-6.4	96	-0.04
72		bis(2-Ethylhexyl)phthalate	1.283	1.441	-12.2	110	-0.04
73	I	Perylene-d12	1.000	1.000	0.0	97	-0.04
74	C	Di-n-octylphthalate	2.249	2.506	-11.4	107	-0.04
75		Benzo[b]fluoranthene	1.260	1.307	-3.8	94	-0.06
		Benzo[k]fluoranthene	0.916	0.955	-4.3	77	-0.06
77	C	Benzo[a]pyrene	1.108	1.195	-7.9	96	-0.06
78		Indeno[1,2,3-cd]pyrene	1.174	1.090	7.1	94	-0.06
79		Dibenz[a,h]anthracene	0.925	0.961	-3.9	89	-0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S7996.D
Acq Time : 5 Jun 96 4:19 pm
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
80	Benzo[g,h,i]perylene	1.019	1.065	-4.5	95	-0.07

001143

(#) = Out of Range SPCC's out = 0 CCC's out = 2
S7996.D LBNAICC2.M Wed Jun 05 21:20:28 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7997.D
Acq Time : 5 Jun 96 5:09 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 5 22:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	438534	20.00	ng/uL	0.00
18) Naphthalene-d8	10.73	136	1580983	20.00	ng/uL	0.00
33) Acenaphthene-d10	16.05	164	1122925	20.00	ng/uL	0.00
54) Phenanthrene-d10	20.49	188	1606603	20.00	ng/uL	-0.01
65) Chrysene-d12	28.66	240	1126261	20.00	ng/uL	0.00
73) Perylene-d12	32.70	264	1303522	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	2397496	84.77	ng/uL	
4) Phenol-d5	6.80	99	2895775	73.72	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.61	152	1815306	74.48	ng/uL	
19) Nitrobenzene-d5	8.83	82	2449126	75.76	ng/uL	
37) 2-Fluorobiphenyl	14.23	172	4620636	63.69	ng/uL	
52) 2,4,6-Tribromophenol	18.55	330	843146	75.72	ng/uL	
67) Terphenyl-d14	25.66	244	5499960	84.07	ng/uL	
Target Compounds						Qvalue
3) Aniline	6.72	93	2580223	72.79	ng/uLm	51
5) Phenol	6.81	94	2797056	71.78	ng/uL	95
6) bis(2-Chloroethyl)ether	6.72	93	2603212	73.42	ng/uL	89
7) 2-Chlorophenol	6.71	128	2351372	79.06	ng/uL	99
8) 1,3-Dichlorobenzene	6.98	146	2375048	74.99	ng/uL	97
9) 1,4-Dichlorobenzene	7.16	146	2446346	75.03	ng/uL	98
11) 1,2-Dichlorobenzene	7.64	146	2165946	70.94	ng/uL	98
12) Benzyl alcohol	7.84	108	1699603	87.01	ng/uL	99
13) 2-Methylphenol	8.36	108	1733394	65.06	ng/uL	91
14) 2,2'-oxybis(1-Chloropropan	8.22	45	3072116	79.97	ng/uL	98
15) Hexachloroethane	8.45	117	1127060	74.22	ng/uL	99
16) 3+4-Methyphenols	8.85	108	1965816	76.34	ng/uL	99
17) N-Nitroso-di-n-propylamine	8.71	70	1719848	81.38	ng/uL	99
20) Nitrobenzene	8.89	77	2224896	69.75	ng/uL	95
21) Isophorone	9.62	82	5426031	85.03	ng/uL	99
22) 2-Nitrophenol	9.79	139	1419375	96.66	ng/uL	98
23) 2,4-Dimethylphenol	10.30	107	2072094	80.94	ng/uL	99
24) bis(2-Chloroethoxy)methane	10.48	93	3366795	77.10	ng/uL	99
25) 2,4-Dichlorophenol	10.59	162	1894411	76.81	ng/uL	99
26) Benzoic Acid	11.29	105	1640729	126.37	ng/uL	97
27) 1,2,4-Trichlorobenzene	10.67	180	1994064	72.78	ng/uL	98
28) Naphthalene	10.80	128	5519276	70.23	ng/uL	100
29) 4-Chloroaniline	11.37	127	682730	32.63	ng/uL	98
30) Hexachlorobutadiene	11.46	225	997377	74.82	ng/uL	99
31) 4-Chloro-3-methylphenol	13.00	107	1966287	77.16	ng/uL	99
32) 2-Methylnaphthalene	12.89	142	4382629	74.57	ng/uL	99
34) Hexachlorocyclopentadiene	13.62	237	1186948	93.91	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7997.D
Acq Time : 5 Jun 96 5:09 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 5 22:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) 2,4,6-Trichlorophenol	14.01	196	1464950	76.17	ng/uL	97
36) 2,4,5-Trichlorophenol	14.12	196	1485053	72.86	ng/uL	98
38) 2-Chloronaphthalene	14.33	162	3709416	65.86	ng/uL	99
39) 2-Nitroaniline	15.00	65	1560926	78.68	ng/uL	96
40) Dimethylphthalate	15.79	163	5100369	72.89	ng/uL	100
41) Acenaphthylene	15.58	152	7069985	71.24	ng/uL	99
42) 2,6-Dinitrotoluene	15.95	165	1451855	81.55	ng/uL	87
43) 3-Nitroaniline	16.37	138	260537	39.97	ng/uL	87
44) Acenaphthene	16.17	153	3730930	68.42	ng/uL	99
45) 2,4-Dinitrophenol	16.60	184	1071483	94.56	ng/uL	95
46) Dibenzofuran	16.68	168	5806234	67.11	ng/uL	99
47) 4-Nitrophenol	17.21	109	533031	75.19	ng/uL	96
48) 2,4-Dinitrotoluene	17.09	165	2082116	87.64	ng/uL	90
49) Fluorene	17.72	166	4781985	68.33	ng/uL	99
50) Diethylphthalate	17.98	149	4660510	70.81	ng/uL	99
51) 4-Chlorophenyl-phenylether	17.89	204	1967883	69.65	ng/uL	
53) 4-Nitroaniline	18.22	138	65331	59.78	ng/uL	
55) 4,6-Dinitro-2-methylphenol	18.30	198	1237394	93.20	ng/uL	99
56) N-Nitrosodiphenylamine	18.37	169	2133453	64.40	ng/uL	100
57) 1,2-Diphenylhydrazine	18.30	77	242957	59.75	ng/uLm	1
58) 4-Bromophenyl-phenylether	19.34	248	1357848	77.24	ng/uL	99
59) Hexachlorobenzene	19.63	284	1752329	80.22	ng/uL	99
60) Pentachlorophenol	20.33	266	1226454	80.67	ng/uL	98
61) Phenanthrene	20.58	178	6244353	71.05	ng/uL	99
62) Anthracene	20.73	178	5536776	65.77	ng/uL	99
63) Di-n-butylphthalate	22.98	149	10609837	75.50	ng/uL	100
64) Fluoranthene	24.23	202	7149098	71.18	ng/uL	95
66) Pyrene	24.86	202	7182732	82.98	ng/uL	94
68) Butylbenzylphthalate	27.48	149	5072383	98.94	ng/uL	98
69) Benzo[a]anthracene	28.61	228	6491348	86.53	ng/uL	99
70) 3,3'-Dichlorobenzidine	28.83	252	334159	85.65	ng/uL	97
71) Chrysene	28.76	228	4361369	71.95	ng/uL	99
72) bis(2-Ethylhexyl)phthalate	29.47	149	6413200	88.73	ng/uL	98
74) Di-n-octylphthalate	31.28	149	11680868	79.68	ng/uL	100
75) Benzo[b]fluoranthene	31.77	252	7366568	89.71	ng/uL	97
76) Benzo[k]fluoranthene	31.84	252	5091928	85.30	ng/uLm	93
77) Benzo[a]pyrene	32.59	252	5849886	80.99	ng/uL	96
78) Indeno[1,2,3-cd]pyrene	35.28	276	6762787	88.40	ng/uL	99
79) Dibenz[a,h]anthracene	35.40	278	4493758	74.54	ng/uL	92
80) Benzo[g,h,i]perylene	35.88	276	5211802	78.47	ng/uL	99

00145

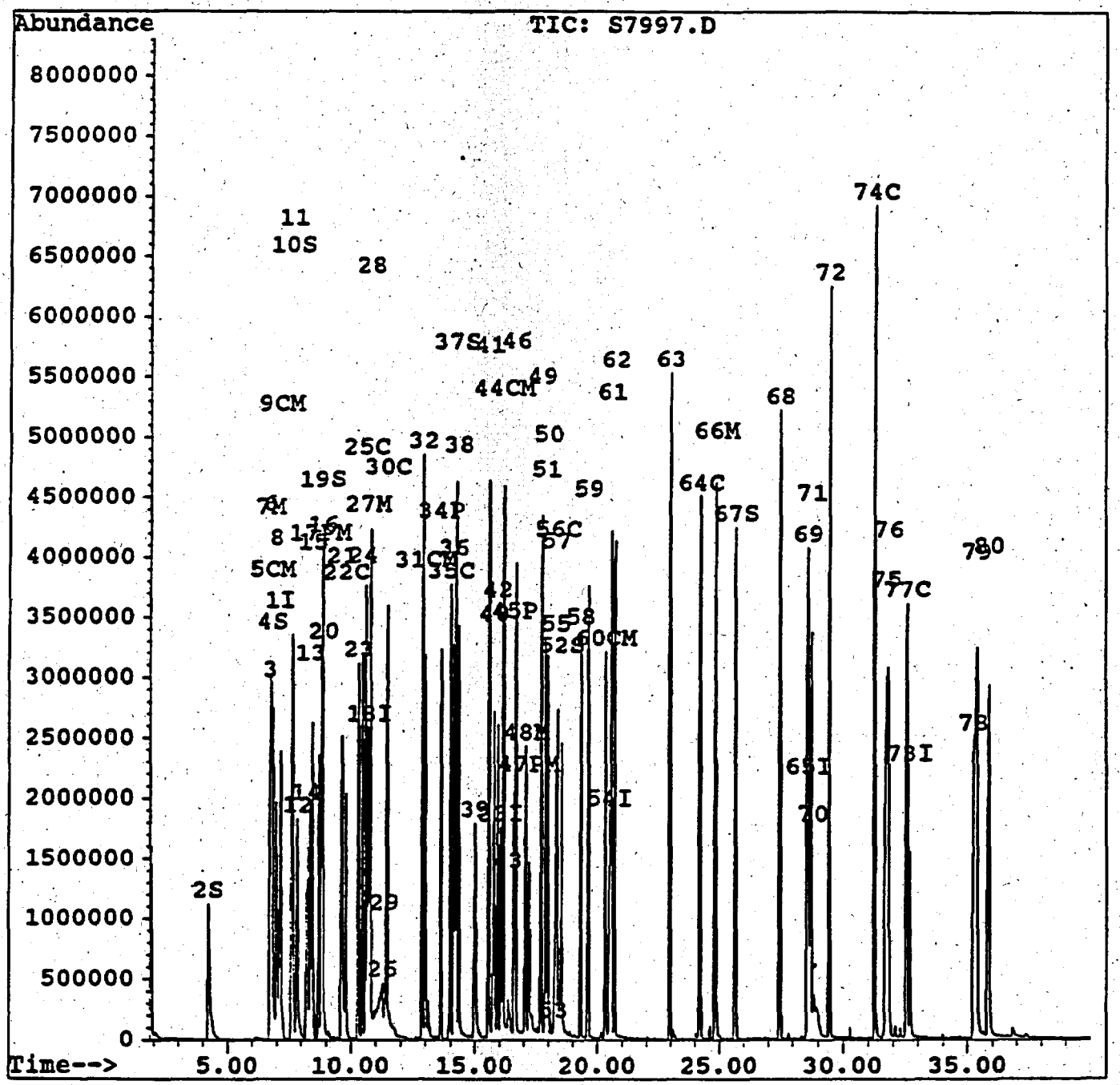
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7997.D
Acq Time : 5 Jun 96 5:09 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 5 22:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration



00146

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S7997.D
Acq Time : 5 Jun 96 5:09 pm
Sample : 80 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
2	S	2-Fluorophenol	1.445	1.367	5.4	113	-0.01
3		Aniline	1.608	1.471	8.5	106	0.00
4	S	Phenol-d5	1.783	1.651	7.4	107	0.05
5	CM	Phenol	1.702	1.595	6.3	108	0.03
6		bis(2-Chloroethyl)ether	1.609	1.484	7.8	107	0.00
7	M	2-Chlorophenol	1.409	1.340	4.9	111	0.00
8		1,3-Dichlorobenzene	1.436	1.354	5.7	112	0.00
9	CM	1,4-Dichlorobenzene	1.483	1.395	5.9	113	0.02
10		1,2-Dichlorobenzene-d4	N/A	1.000	69.0	38#	-28.17#
11		1,2-Dichlorobenzene	1.317	1.235	6.2	114	0.02
12		Benzyl alcohol	1.010	0.969	4.1	115	0.03
13		2-Methylphenol	1.268	0.988	22.1	117	0.02
14		2,2'-oxybis(1-Chloropropane	1.855	1.751	5.6	113	0.02
15		Hexachloroethane	0.692	0.643	7.1	111	0.00
16		3+4-Methyphenols	1.174	1.121	4.6	112	0.05
17	PM	N-Nitroso-di-n-propylamine	1.021	0.980	4.0	115	0.08
18	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00
19	S	Nitrobenzene-d5	0.407	0.387	4.8	111	0.03
20		Nitrobenzene	0.380	0.352	7.4	111	0.05
21		Isophorone	0.889	0.858	3.5	117	0.05
22	C	2-Nitrophenol	0.221	0.224	-1.7	115	0.02
23		2,4-Dimethylphenol	0.345	0.328	5.1	112	0.05
24		bis(2-Chloroethoxy)methane	0.576	0.532	7.5	107	0.03
25	C	2,4-Dichlorophenol	0.326	0.300	8.1	113	0.04
26		Benzoic Acid	0.215	0.259	-20.4	144	0.32
27	M	1,2,4-Trichlorobenzene	0.337	0.315	6.4	113	0.00
28		Naphthalene	0.950	0.873	8.1	109	0.04
29		4-Chloroaniline	0.240	0.108	54.9	43#	0.11
30	C	Hexachlorobutadiene	0.173	0.158	8.9	105	0.00
31	CM	4-Chloro-3-methylphenol	0.333	0.311	6.8	112	0.00
32		2-Methylnaphthalene	0.755	0.693	8.2	109	0.02
33	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.01
34	P	Hexachlorocyclopentadiene	0.268	0.264	1.6	116	0.00
35	C	2,4,6-Trichlorophenol	0.355	0.326	8.2	111	0.02
36		2,4,5-Trichlorophenol	0.363	0.331	8.9	113	0.01
37	S	2-Fluorobiphenyl	1.147	1.029	10.3	105	0.04
38		2-Chloronaphthalene	0.907	0.826	9.0	108	0.03
39		2-Nitroaniline	0.353	0.348	1.7	118	0.06
40		Dimethylphthalate	1.236	1.136	8.1	112	0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S7997.D
Acq Time : 5 Jun 96 5:09 pm Operator:
Sample : 80 PPM BNA CCC Inst : BNA-GC/MS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.727	1.574	8.9	112	0.04
42		2,6-Dinitrotoluene	0.331	0.323	2.3	113	0.07
43		3-Nitroaniline	0.116	0.058	50.0	71	0.06
44	CM	Acenaphthene	0.921	0.831	9.9	110	0.04
45	P	2,4-Dinitrophenol	0.202	0.239	-18.2	141	0.04
46		Dibenzofuran	1.439	1.293	10.2	112	0.04
47	PM	4-Nitrophenol	0.126	0.119	6.0	113	0.04
48	M	2,4-Dinitrotoluene	0.472	0.464	1.8	118	0.06
49		Fluorene	1.190	1.065	10.6	106	0.05
50		Diethylphthalate	1.113	1.038	6.7	112	0.05
51		4-Chlorophenyl-phenylether	0.482	0.438	9.0	109	0.03
52	S	2,4,6-Tribromophenol	0.198	0.188	5.3	114	0.03
53		4-Nitroaniline	0.019	0.015	25.3	130	0.06
	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.02
55		4,6-Dinitro-2-methylphenol	0.165	0.193	-16.5	132	0.08
56	C	N-Nitrosodiphenylamine	0.366	0.332	9.3	111	0.05
57		1,2-Diphenylhydrazine	0.043	0.038	11.3	108	0.08
58		4-Bromophenyl-phenylether	0.223	0.211	5.4	110	0.03
59		Hexachlorobenzene	0.272	0.273	-0.4	118	0.04
60	CM	Pentachlorophenol	0.189	0.191	-0.8	115	0.05
61		Phenanthrene	1.029	0.972	5.5	113	0.04
62		Anthracene	0.936	0.862	8.0	109	0.05
63		Di-n-butylphthalate	1.729	1.651	4.5	112	0.03
64	C	Fluoranthene	1.189	1.112	6.5	109	0.06
65	I	Chrysene-d12	1.000	1.000	0.0	112	0.03
66	M	Pyrene	1.622	1.594	1.7	113	0.06
67	S	Terphenyl-d14	1.241	1.221	1.7	114	0.04
68		Butylbenzylphthalate	1.044	1.126	-7.8	122	0.03
69		Benzo[a]anthracene	1.464	1.441	1.6	115	0.05
70		3,3'-Dichlorobenzidine	0.082	0.074	9.2	108	0.02
71		Chrysene	1.052	0.968	8.0	105	0.06
72		bis(2-Ethylhexyl)phthalate	1.392	1.424	-2.3	116	0.04
73	I	Perylene-d12	1.000	1.000	0.0	116	0.03
74	C	Di-n-octylphthalate	2.319	2.240	3.4	115	0.05
75		Benzo[b]fluoranthene	1.582	1.413	10.7	118	0.08
		Benzo[k]fluoranthene	1.330	0.977	26.6	149	0.08
	C	Benzo[a]pyrene	1.181	1.122	5.0	116	0.07
78		Indeno[1,2,3-cd]pyrene	1.068	1.297	-21.5	112	0.04
79		Dibenz[a,h]anthracene	0.962	0.862	10.4	109	0.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	-0.01
2	S	2-Fluorophenol	1.290	1.342	-4.0	94	0.00
3		Aniline	1.617	1.713	-5.9	94	0.22
4	S	Phenol-d5	1.791	1.991	-11.1	99	-0.03
5	CM	Phenol	1.777	1.930	-8.6	97	-0.03
6		bis(2-Chloroethyl)ether	1.617	1.726	-6.7	95	-0.03
7	M	2-Chlorophenol	1.356	1.458	-7.5	98	0.00
8		1,3-Dichlorobenzene	1.444	1.580	-9.4	100	-0.01
9	CM	1,4-Dichlorobenzene	1.487	1.633	-9.9	100	-0.01
10	S	1,2-Dichlorobenzene-d4	1.112	1.200	-8.0	99	-0.01
11		1,2-Dichlorobenzene	1.392	1.550	-11.3	102	-0.01
12		Benzyl alcohol	0.891	0.997	-11.9	100	-0.01
13		2-Methylphenol	1.215	1.301	-7.1	95	-0.01
14		2,2'-oxybis(1-Chloropropane	1.752	1.856	-6.0	96	-0.01
15		Hexachloroethane	0.693	0.715	-3.3	94	-0.01
16		3+4-Methyphenols	1.174	1.303	-11.0	102	-0.01
17	PM	N-Nitroso-di-n-propylamine	0.964	1.029	-6.8	99	-0.04
18	I	Naphthalene-d8	1.000	1.000	0.0	99	-0.03
19	S	Nitrobenzene-d5	0.409	0.438	-7.1	100	-0.03
20		Nitrobenzene	0.404	0.438	-8.5	101	-0.03
21		Isophorone	0.807	0.886	-9.7	102	-0.03
22	C	2-Nitrophenol	0.186	0.235	-26.5#	117	-0.03
23		2,4-Dimethylphenol	0.324	0.317	2.1	92	-0.03
24		bis(2-Chloroethoxy)methane	0.552	0.585	-5.8	96	-0.04
25	C	2,4-Dichlorophenol	0.312	0.331	-6.2	96	-0.03
26		Benzoic Acid	0.164	0.196	-19.1	147	-0.16
27	M	1,2,4-Trichlorobenzene	0.347	0.355	-2.4	94	-0.03
28		Naphthalene	0.994	1.025	-3.1	99	-0.03
29		4-Chloroaniline	0.265	0.337	-27.3	112	-0.02
30	C	Hexachlorobutadiene	0.169	0.188	-11.4	104	-0.02
31	CM	4-Chloro-3-methylphenol	0.322	0.359	-11.3	102	-0.02
32		2-Methylnaphthalene	0.744	0.793	-6.7	96	-0.03
33	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.03
34	P	Hexachlorocyclopentadiene	0.225	0.246	-9.3	97	-0.02
35	C	2,4,6-Trichlorophenol	0.343	0.393	-14.6	104	-0.02
36		2,4,5-Trichlorophenol	0.363	0.422	-16.2	101	-0.02
37	S	2-Fluorobiphenyl	1.292	1.444	-11.7	99	-0.05
38		2-Chloronaphthalene	1.003	1.108	-10.4	97	-0.03
39		2-Nitroaniline	0.353	0.372	-5.2	106	-0.02
40		Dimethylphthalate	1.246	1.345	-8.0	96	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.767	2.044	-15.7	101	-0.03
42		2,6-Dinitrotoluene	0.317	0.361	-13.7	99	-0.05
43		3-Nitroaniline	0.116	0.124	-7.2	91	0.00
44	CM	Acenaphthene	0.971	1.088	-12.0	97	-0.03
45	P	2,4-Dinitrophenol	0.202	0.198	1.9	127	-0.02
46		Dibenzofuran	1.541	1.767	-14.7	101	-0.03
47	PM	4-Nitrophenol	0.126	0.116	8.0	93	-0.02
48	M	2,4-Dinitrotoluene	0.423	0.508	-20.1	106	-0.05
49		Fluorene	1.247	1.420	-13.9	103	-0.03
50		Diethylphthalate	1.172	1.334	-13.8	101	-0.05
51		4-Chlorophenyl-phenylether	0.503	0.578	-14.8	103	-0.03
52	S	2,4,6-Tribromophenol	0.198	0.234	-18.0	110	-0.03
53		4-Nitroaniline	0.019	0.011	44.1	117	-0.03
	I	Phenanthrene-d10	1.000	1.000	0.0	102	-0.03
55		4,6-Dinitro-2-methylphenol	0.165	0.181	-9.5	132	-0.06
56	C	N-Nitrosodiphenylamine	0.412	0.537	-30.2#	120	-0.03
57		1,2-Diphenylhydrazine	0.051	0.064	-26.4	118	-0.03
58		4-Bromophenyl-phenylether	0.219	0.244	-11.7	109	-0.03
59		Hexachlorobenzene	0.272	0.305	-12.2	110	-0.05
60	CM	Pentachlorophenol	0.189	0.176	7.1	101	-0.03
61		Phenanthrene	1.094	1.155	-5.5	102	-0.05
62		Anthracene	1.048	1.181	-12.6	107	-0.05
63		Di-n-butylphthalate	1.749	2.063	-17.9	112	-0.04
64	C	Fluoranthene	1.250	1.371	-9.7	105	-0.04
65	I	Chrysene-d12	1.000	1.000	0.0	102	-0.06
66	M	Pyrene	1.537	1.593	-3.6	101	-0.04
67	S	Terphenyl-d14	1.162	1.261	-8.6	106	-0.04
68		Butylbenzylphthalate	0.910	1.083	-18.9	123	-0.04
69		Benzo[a]anthracene	1.332	1.428	-7.2	105	-0.04
70		3,3'-Dichlorobenzidine	0.069	0.105	-51.4	135	0.00
71		Chrysene	1.076	1.149	-6.8	100	-0.06
72		bis(2-Ethylhexyl)phthalate	1.283	1.430	-11.4	114	-0.04
73	I	Perylene-d12	1.000	1.000	0.0	103	-0.06
74	C	Di-n-octylphthalate	2.249	2.513	-11.7	114	-0.04
75		Benzo[b]fluoranthene	1.260	1.345	-6.8	104	-0.06
		Benzo[k]fluoranthene	0.916	1.185	-29.4	103	-0.06
	C	Benzo[a]pyrene	1.108	1.207	-8.9	103	-0.07
78		Indeno[1,2,3-cd]pyrene	1.174	1.110	5.4	102	-0.06
79		Dibenz[a,h]anthracene	0.925	1.025	-10.8	101	-0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
80	Benzo[g,h,i]perylene	1.019	1.088	-6.8	103	-0.07

000151

(#) = Out of Range SPCC's out = 0 CCC's out = 2
S8011.D LBNAICC2.M Thu Jun 06 16:24:04 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:22 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	495759	20.00	ng/uL	-0.01
18) Naphthalene-d8	10.71	136	1848282	20.00	ng/uL	-0.03
33) Acenaphthene-d10	16.03	164	1182125	20.00	ng/uL	-0.03
54) Phenanthrene-d10	20.47	188	1823119	20.00	ng/uL	-0.03
65) Chrysene-d12	28.61	240	1554624	20.00	ng/uL	-0.06
73) Perylene-d12	32.66	264	1620033	20.00	ng/uL	-0.06
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	665226	20.81	ng/uL	
4) Phenol-d5	6.74	99	987077	22.23	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.60	152	595099	21.60	ng/uL	
19) Nitrobenzene-d5	8.78	82	809349	21.42	ng/uL	
37) 2-Fluorobiphenyl	14.17	172	1706606	22.35	ng/uL	
52) 2,4,6-Tribromophenol	18.52	330	276547	23.59	ng/uL	
67) Terphenyl-d14	25.62	244	1961100	21.72	ng/uL	
Target Compounds						Qvalue
3) Aniline	6.71	93	849198	21.19	ng/uLm	51
5) Phenol	6.77	94	956691	21.72	ng/uL	92
6) bis(2-Chloroethyl)ether	6.71	93	855543	21.34	ng/uL	91
7) 2-Chlorophenol	6.71	128	723030	21.51	ng/uL	99
8) 1,3-Dichlorobenzene	6.98	146	783088	21.87	ng/uL	97
9) 1,4-Dichlorobenzene	7.14	146	809795	21.97	ng/uL	99
11) 1,2-Dichlorobenzene	7.63	146	768586	22.27	ng/uL	100
12) Benzyl alcohol	7.79	108	494078	22.37	ng/uL	93
13) 2-Methylphenol	8.34	108	645082	21.42	ng/uL	92
14) 2,2'-oxybis(1-Chloropropan	8.21	45	920265	21.19	ng/uL	99
15) Hexachloroethane	8.43	117	354587	20.65	ng/uL	99
16) 3+4-Methyphenols	8.80	108	646063	22.19	ng/uL	100
17) N-Nitroso-di-n-propylamine	8.62	70	510312	21.36	ng/uL	98
20) Nitrobenzene	8.83	77	809051	21.70	ng/uL	91
21) Isophorone	9.57	82	1636947	21.94	ng/uL	97
22) 2-Nitrophenol	9.76	139	434485	25.31	ng/uL	97
23) 2,4-Dimethylphenol	10.25	107	585966	19.58	ng/uL	98
24) bis(2-Chloroethoxy)methane	10.43	93	1080380	21.16	ng/uL	100
25) 2,4-Dichlorophenol	10.55	162	612587	21.25	ng/uL	99
26) Benzoic Acid	10.99	105	361442	23.81	ng/uL	100
27) 1,2,4-Trichlorobenzene	10.65	180	655881	20.48	ng/uL	99
28) Naphthalene	10.77	128	1895098	20.63	ng/uL	99
29) 4-Chloroaniline	11.24	127	622720	25.46	ng/uL	99
30) Hexachlorobutadiene	11.44	225	347108	22.27	ng/uL	100
31) 4-Chloro-3-methylphenol	12.97	107	663222	22.26	ng/uL	94
32) 2-Methylnaphthalene	12.86	142	1466008	21.34	ng/uL	99
34) Hexachlorocyclopentadiene	13.61	237	290971	21.87	ng/uL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:22 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35)	2,4,6-Trichlorophenol	13.98	196	464258	22.93	ng/uL	99
36)	2,4,5-Trichlorophenol	14.10	196	498650	23.24	ng/uL	97
38)	2-Chloronaphthalene	14.29	162	1309653	22.09	ng/uL	99
39)	2-Nitroaniline	14.94	65	439634	21.05	ng/uL	96
40)	Dimethylphthalate	15.73	163	1590520	21.59	ng/uL	99
41)	Acenaphthylene	15.54	152	2416852	23.14	ng/uL	100
42)	2,6-Dinitrotoluene	15.88	165	426367	22.75	ng/uL	93
43)	3-Nitroaniline	16.29	138	147163	21.45	ng/uL	96
44)	Acenaphthene	16.13	153	1285802	22.40	ng/uL	99
45)	2,4-Dinitrophenol	16.56	184	234084	19.62	ng/uL	86
46)	Dibenzofuran	16.63	168	2089044	22.94	ng/uL	99
47)	4-Nitrophenol	17.17	109	137295	18.40	ng/uL	89
48)	2,4-Dinitrotoluene	17.02	165	600645	24.02	ng/uL	96
49)	Fluorene	17.67	166	1678544	22.78	ng/uL	99
50)	Diethylphthalate	17.92	149	1576774	22.76	ng/uL	[illegible]
51)	4-Chlorophenyl-phenylether	17.85	204	682803	22.96	ng/uL	
53)	4-Nitroaniline	18.16	138	12855	11.17	ng/uL	[illegible]
55)	4,6-Dinitro-2-methylphenol	18.22	198	329972	21.90	ng/uL	99
56)	N-Nitrosodiphenylamine	18.31	169	978941	26.04	ng/uL	100
57)	1,2-Diphenylhydrazine	18.31	77	116661	25.28	ng/uLm	1
58)	4-Bromophenyl-phenylether	19.30	248	445553	22.33	ng/uL	98
59)	Hexachlorobenzene	19.58	284	556082	22.43	ng/uL	99
60)	Pentachlorophenol	20.28	266	320516	18.58	ng/uL	98
61)	Phenanthrene	20.53	178	2105289	21.11	ng/uL	100
62)	Anthracene	20.66	178	2152399	22.53	ng/uL	99
63)	Di-n-butylphthalate	22.94	149	3760475	23.58	ng/uL	100
64)	Fluoranthene	24.17	202	2499723	21.93	ng/uL	96
66)	Pyrene	24.80	202	2476043	20.72	ng/uL	97
68)	Butylbenzylphthalate	27.45	149	1683054	23.78	ng/uL	97
69)	Benzo[a]anthracene	28.56	228	2220207	21.44	ng/uL	98
70)	3,3'-Dichlorobenzidine	28.82	252	163083	30.28	ng/uLm	97
71)	Chrysene	28.68	228	1786527	21.35	ng/uL	99
72)	bis(2-Ethylhexyl)phthalate	29.44	149	2223692	22.29	ng/uL	98
74)	Di-n-octylphthalate	31.23	149	4071759	22.35	ng/uL	100
75)	Benzo[b]fluoranthene	31.69	252	2179101	21.35	ng/uL	95
76)	Benzo[k]fluoranthene	31.76	252	1920411	25.88	ng/uL	91
77)	Benzo[a]pyrene	32.50	252	1954737	21.78	ng/uL	98
78)	Indeno[1,2,3-cd]pyrene	35.24	276	1798274	18.91	ng/uL	94
79)	Dibenz[a,h]anthracene	35.31	278	1660123	22.16	ng/uL	96
80)	Benzo[g,h,i]perylene	35.79	276	1762712	21.35	ng/uL	[illegible]

00153

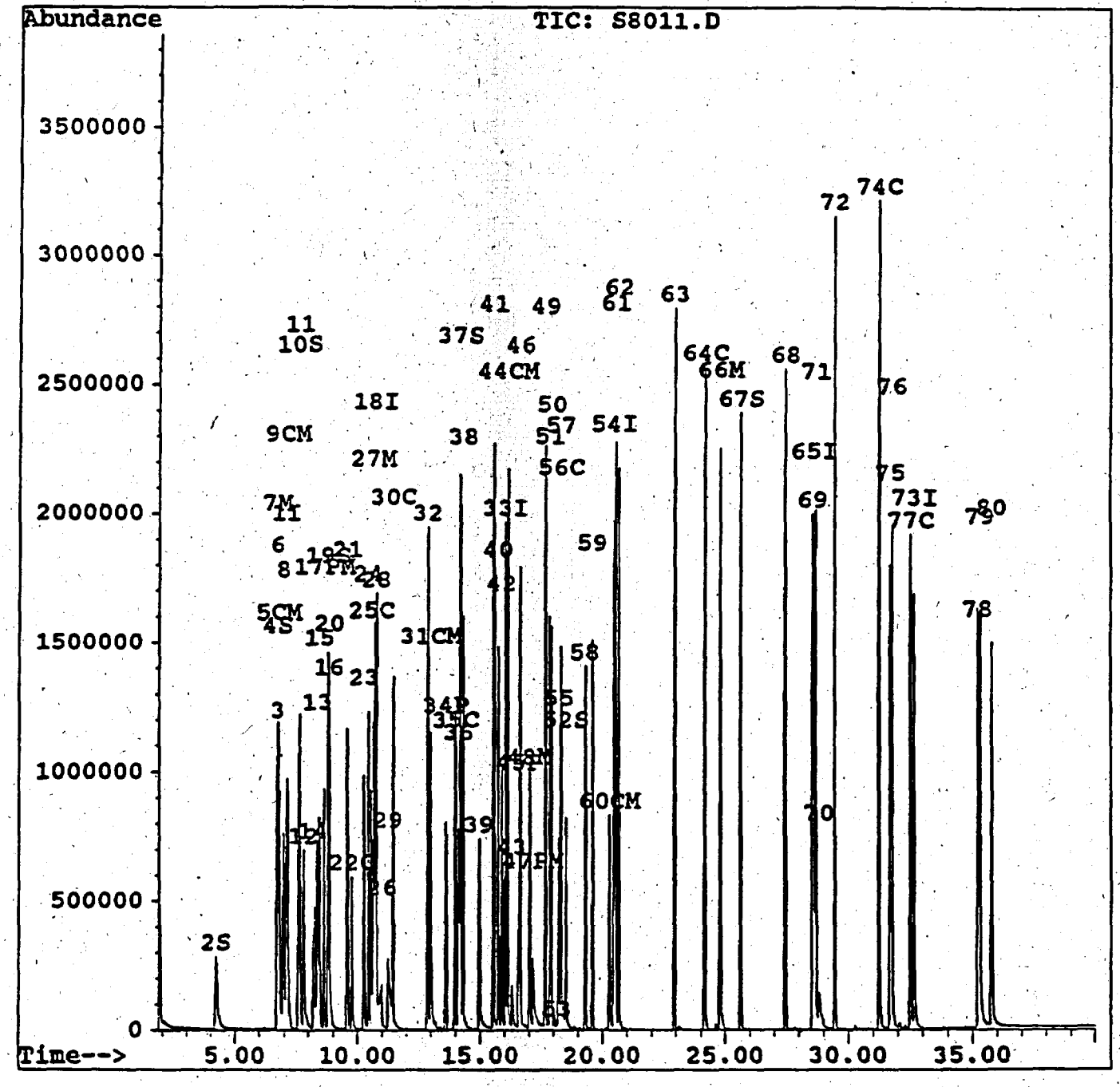
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8011.D
Acq Time : 6 Jun 96 4:06 am
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:22 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8012.D
Acq Time : 6 Jun 96 4:55 am
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	465287	20.00	ng/uL	0.00
18) Naphthalene-d8	10.74	136	1719475	20.00	ng/uL	0.00
33) Acenaphthene-d10	16.05	164	1185819	20.00	ng/uL	0.00
54) Phenanthrene-d10	20.49	188	1851195	20.00	ng/uL	0.00
65) Chrysene-d12	28.66	240	1264493	20.00	ng/uL	0.00
73) Perylene-d12	32.71	264	1479239	20.00	ng/uL	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	2613879	87.11	ng/uL	
4) Phenol-d5	6.80	99	3036912	72.87	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.60	152	1889733	73.08	ng/uL	
19) Nitrobenzene-d5	8.83	82	2599634	73.94	ng/uL	
37) 2-Fluorobiphenyl	14.23	172	5008031	65.37	ng/uL	
52) 2,4,6-Tribromophenol	18.56	330	1001173	85.15	ng/uL	
67) Terphenyl-d14	25.67	244	6130657	83.46	ng/uL	
Target Compounds						Qva
3) Aniline	6.74	93	2681477	71.29	ng/uLm	54
5) Phenol	6.83	94	2930095	70.87	ng/uL	97
6) bis(2-Chloroethyl)ether	6.74	93	2693363	71.59	ng/uL	93
7) 2-Chlorophenol	6.71	128	2528795	80.14	ng/uL	99
8) 1,3-Dichlorobenzene	6.98	146	2633732	78.37	ng/uL	98
9) 1,4-Dichlorobenzene	7.16	146	2581017	74.61	ng/uL	98
11) 1,2-Dichlorobenzene	7.64	146	2282313	70.45	ng/uL	98
12) Benzyl alcohol	7.85	108	1813291	87.49	ng/uL	96
13) 2-Methylphenol	8.37	108	2337257	82.68	ng/uLm	92
14) 2,2'-oxybis(1-Chloropropan	8.22	45	3320939	81.48	ng/uL	99
15) Hexachloroethane	8.45	117	1206672	74.89	ng/uL	98
16) 3+4-Methyphenols	8.85	108	2147291	78.59	ng/uL	97
17) N-Nitroso-di-n-propylamine	8.73	70	1895581	84.54	ng/uL	99
20) Nitrobenzene	8.89	77	2459328	70.89	ng/uL	96
21) Isophorone	9.63	82	6162501	88.79	ng/uL	99
22) 2-Nitrophenol	9.79	139	1643855	102.93	ng/uL	95
23) 2,4-Dimethylphenol	10.31	107	2128497	76.45	ng/uL	100
24) bis(2-Chloroethoxy)methane	10.48	93	3717325	78.27	ng/uL	100
25) 2,4-Dichlorophenol	10.59	162	2178374	81.21	ng/uL	99
26) Benzoic Acid	11.37	105	1381174	97.81	ng/uLm	97
27) 1,2,4-Trichlorobenzene	10.68	180	2147549	72.07	ng/uL	98
28) Naphthalene	10.80	128	6102057	71.39	ng/uL	100
29) 4-Chloroaniline	11.37	127	1802339	79.21	ng/uLm	98
30) Hexachlorobutadiene	11.46	225	1152024	79.46	ng/uL	
31) 4-Chloro-3-methylphenol	13.00	107	2171074	78.33	ng/uL	
32) 2-Methylnaphthalene	12.89	142	4889127	76.49	ng/uL	99
34) Hexachlorocyclopentadiene	13.62	237	1348731	101.05	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8012.D
Acq Time : 6 Jun 96 4:55 am
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) 2,4,6-Trichlorophenol	14.02	196	1612870	79.41	ng/uL	100
36) 2,4,5-Trichlorophenol	14.13	196	1663504	77.29	ng/uL	99
38) 2-Chloronaphthalene	14.35	162	3910722	65.75	ng/uL	99
39) 2-Nitroaniline	15.00	65	1739925	83.05	ng/uL	95
40) Dimethylphthalate	15.80	163	5529239	74.83	ng/uL	97
41) Acenaphthylene	15.58	152	7671170	73.20	ng/uL	99
42) 2,6-Dinitrotoluene	15.95	165	1539308	81.87	ng/uL	99
43) 3-Nitroaniline	16.38	138	431308	62.66	ng/uL	98
44) Acenaphthene	16.17	153	4007145	69.59	ng/uL	99
45) 2,4-Dinitrophenol	16.62	184	1208709	101.02	ng/uL	92
46) Dibenzofuran	16.68	168	6421725	70.29	ng/uL	99
47) 4-Nitrophenol	17.23	109	602430	80.48	ng/uL	96
48) 2,4-Dinitrotoluene	17.09	165	2269949	90.48	ng/uL	99
49) Fluorene	17.72	166	5498585	74.40	ng/uL	99
50) Diethylphthalate	18.00	149	4943027	71.12	ng/uL	100
51) 4-Chlorophenyl-phenylether	17.90	204	2193030	73.50	ng/uL	98
53) 4-Nitroaniline	18.25	138	93338	80.88	ng/uL	94
55) 4,6-Dinitro-2-methylphenol	18.31	198	1413945	92.43	ng/uL	99
56) N-Nitrosodiphenylamine	18.37	169	2536681	66.46	ng/uL	100
58) 4-Bromophenyl-phenylether	19.34	248	1578184	77.91	ng/uL	98
59) Hexachlorobenzene	19.63	284	1991540	79.13	ng/uL	97
60) Pentachlorophenol	20.33	266	1414434	80.74	ng/uL	99
61) Phenanthrene	20.60	178	6829685	67.44	ng/uL	99
62) Anthracene	20.73	178	6202736	63.94	ng/uL	100
63) Di-n-butylphthalate	22.98	149	11636711	71.87	ng/uL	100
64) Fluoranthene	24.23	202	8140831	70.34	ng/uL	95
66) Pyrene	24.87	202	7903290	81.33	ng/uL	97
68) Butylbenzylphthalate	27.50	149	5564248	96.67	ng/uL	96
69) Benzo[a]anthracene	28.61	228	7335884	87.09	ng/uL	98
70) 3,3'-Dichlorobenzidine	28.84	252	385054	87.91	ng/uL	99
71) Chrysene	28.76	228	4849355	71.25	ng/uL	100
72) bis(2-Ethylhexyl)phthalate	29.48	149	6893904	84.95	ng/uL	99
74) Di-n-octylphthalate	31.28	149	13049840	78.44	ng/uL	100
75) Benzo[b]fluoranthene	31.79	252	8685551	93.21	ng/uL	97
76) Benzo[k]fluoranthene	31.86	252	4962258	73.26	ng/uLm	93
77) Benzo[a]pyrene	32.59	252	6591508	80.42	ng/uL	96
78) Indeno[1,2,3-cd]pyrene	35.27	276	7893586	90.92	ng/uL	99
79) Dibenz[a,h]anthracene	35.42	278	5182464	75.75	ng/uL	85
80) Benzo[g,h,i]perylene	35.89	276	6122858	81.23	ng/uL	100

00156

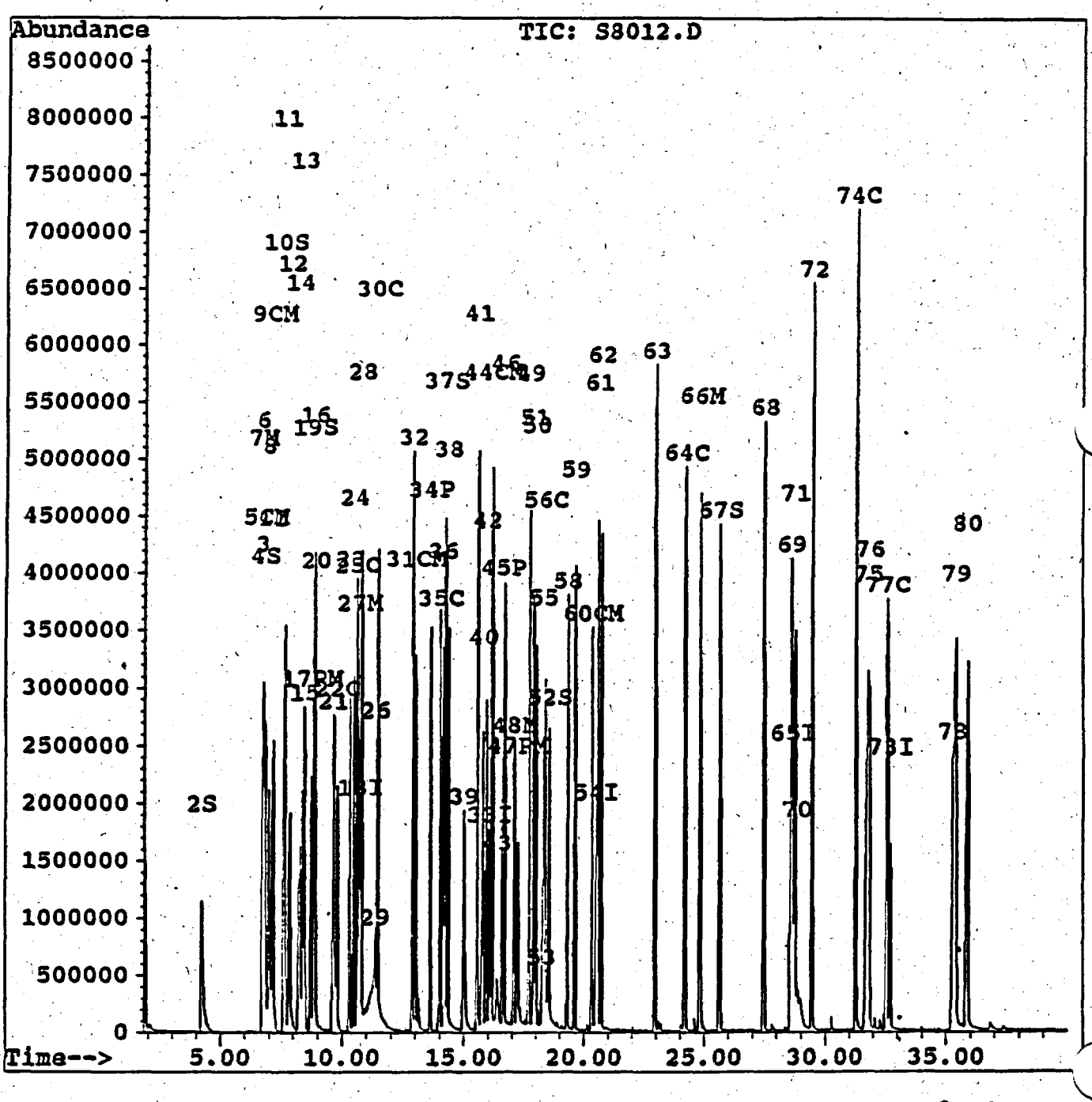
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8012.D
Acq Time : 6 Jun 96 4:55 am
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 6 16:34 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 05 13:27:11 1996
Response via : Multiple Level Calibration



00157

S8012.D LBNAICC2.M Thu Jun 06 16:36:26 1996 BNA2

IR320737

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8012.D
Acq Time : 6 Jun 96 4:55 am
Sample : 80 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00
2	S	2-Fluorophenol	1.445	1.404	2.8	123	-0.01
3		Aniline	1.608	1.441	10.4	110	0.02
4	S	Phenol-d5	1.783	1.632	8.5	112	0.05
5	CM	Phenol	1.702	1.574	7.5	114	0.05
6		bis(2-Chloroethyl)ether	1.609	1.447	10.0	111	0.02
7	M	2-Chlorophenol	1.409	1.359	3.6	119	0.00
8		1,3-Dichlorobenzene	1.436	1.415	1.4	124	0.00
9	CM	1,4-Dichlorobenzene	1.483	1.387	6.5	119	0.02
10		1,2-Dichlorobenzene-d4	N/A	1.000	69.0	40#	-28.19#
11		1,2-Dichlorobenzene	1.317	1.226	6.9	120	0.02
12		Benzyl alcohol	1.010	0.974	3.6	122	0.05
13		2-Methylphenol	1.268	1.256	1.0	158#	0.03
		2,2'-oxybis(1-Chloropropane	1.855	1.784	3.8	122	0.02
		Hexachloroethane	0.692	0.648	6.3	119	0.00
16		3+4-Methyphenols	1.174	1.154	1.8	122	0.05
17	PM	N-Nitroso-di-n-propylamine	1.021	1.019	0.2	127	0.09
18	I	Naphthalene-d8	1.000	1.000	0.0	126	0.02
19	S	Nitrobenzene-d5	0.407	0.378	7.1	118	0.03
20		Nitrobenzene	0.380	0.358	5.9	122	0.05
21		Isophorone	0.889	0.896	-0.8	133	0.06
22	C	2-Nitrophenol	0.221	0.239	-8.3	134	0.02
23		2,4-Dimethylphenol	0.345	0.309	10.4	115	0.06
24		bis(2-Chloroethoxy)methane	0.576	0.540	6.1	118	0.04
25	C	2,4-Dichlorophenol	0.326	0.317	2.8	130	0.04
26		Benzoic Acid	0.215	0.201	6.8	121	0.39
27	M	1,2,4-Trichlorobenzene	0.337	0.312	7.3	121	0.02
28		Naphthalene	0.950	0.887	6.6	121	0.04
29		4-Chloroaniline	0.240	0.262	-9.4	115	0.11
30	C	Hexachlorobutadiene	0.173	0.167	3.3	122	0.00
31	CM	4-Chloro-3-methylphenol	0.333	0.316	5.3	124	0.00
32		2-Methylnaphthalene	0.755	0.711	5.8	122	0.02
33	I	Acenaphthene-d10	1.000	1.000	0.0	123	0.01
34	P	Hexachlorocyclopentadiene	0.268	0.284	-5.9	131	0.01
35	C	2,4,6-Trichlorophenol	0.355	0.340	4.2	123	0.04
36		2,4,5-Trichlorophenol	0.363	0.351	3.4	127	0.01
	S	2-Fluorobiphenyl	1.147	1.056	8.0	114	0.04
		2-Chloronaphthalene	0.907	0.824	9.1	114	0.04
39		2-Nitroaniline	0.353	0.367	-3.8	131	0.06
40		Dimethylphthalate	1.236	1.166	5.7	122	0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8012.D
Acq Time : 6 Jun 96 4:55 am
Sample : 80 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.727	1.617	6.4	121	0.04
42		2,6-Dinitrotoluene	0.331	0.325	1.9	120	0.07
43		3-Nitroaniline	0.116	0.091	21.7	117	0.07
44	CM	Acenaphthene	0.921	0.845	8.3	118	0.04
45	P	2,4-Dinitrophenol	0.202	0.255	-26.3	159#	0.06
46		Dibenzofuran	1.439	1.354	5.9	123	0.04
47	PM	4-Nitrophenol	0.126	0.127	-0.6	128	0.06
48	M	2,4-Dinitrotoluene	0.472	0.479	-1.3	128	0.06
49		Fluorene	1.190	1.159	2.6	121	0.05
50		Diethylphthalate	1.113	1.042	6.3	119	0.06
51		4-Chlorophenyl-phenylether	0.482	0.462	4.0	122	0.03
52	S	2,4,6-Tribromophenol	0.198	0.211	-6.4	135	0.05
53		4-Nitroaniline	0.019	0.020	-1.1	185#	0.09
54	I	Phenanthrene-d10	1.000	1.000	0.0	132	0.02
55		4,6-Dinitro-2-methylphenol	0.165	0.191	-15.5	151#	0.09
56	C	N-Nitrosodiphenylamine	0.366	0.343	6.4	132	0.05
57		1,2-Diphenylhydrazine	0.043	0.034	20.2	112	0.09
58		4-Bromophenyl-phenylether	0.223	0.213	4.6	128	0.04
59		Hexachlorobenzene	0.272	0.269	1.0	134	0.04
60	CM	Pentachlorophenol	0.189	0.191	-0.9	133	0.05
61		Phenanthrene	1.029	0.922	10.3	124	0.05
62		Anthracene	0.936	0.838	10.5	123	0.05
63		Di-n-butylphthalate	1.729	1.572	9.1	122	0.03
64	C	Fluoranthene	1.189	1.099	7.5	125	0.06
65	I	Chrysene-d12	1.000	1.000	0.0	126	0.04
66	M	Pyrene	1.622	1.563	3.7	124	0.06
67	S	Terphenyl-d14	1.241	1.212	2.4	127	0.05
68		Butylbenzylphthalate	1.044	1.100	-5.3	134	0.05
69		Benzo[a]anthracene	1.464	1.450	0.9	130	0.05
70		3,3'-Dichlorobenzidine	0.082	0.076	6.8	125	0.02
71		Chrysene	1.052	0.959	8.9	117	0.07
72		bis(2-Ethylhexyl)phthalate	1.392	1.363	2.1	125	0.04
73	I	Perylene-d12	1.000	1.000	0.0	132	0.03
74	C	Di-n-octylphthalate	2.319	2.205	4.9	129	0.06
75		Benzo[b]fluoranthene	1.582	1.468	7.2	139	0.10
76		Benzo[k]fluoranthene	1.330	0.839	37.0	146	0.10
77	C	Benzo[a]pyrene	1.181	1.114	5.7	131	0.07
78		Indeno[1,2,3-cd]pyrene	1.068	1.334	-25.0	131	0.03
79		Dibenz[a,h]anthracene	0.962	0.876	8.9	125	0.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm Operator:
Sample : 20 PPM BNA CCC Inst : BNA-GC/MS
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
2	S	2-Fluorophenol	1.290	1.399	-8.4	86	0.00
3		Aniline	1.617	1.819	-12.5	88	0.00
4	S	Phenol-d5	1.791	2.047	-14.3	90	0.00
5	CM	Phenol	1.777	2.026	-14.0	90	0.00
6		bis(2-Chloroethyl)ether	1.617	1.819	-12.5	88	0.00
7	M	2-Chlorophenol	1.356	1.474	-8.6	88	0.00
8		1,3-Dichlorobenzene	1.444	1.654	-14.5	93	0.00
9	CM	1,4-Dichlorobenzene	1.487	1.675	-12.7	90	0.02
10	S	1,2-Dichlorobenzene-d4	1.112	1.250	-12.5	91	0.00
11		1,2-Dichlorobenzene	1.392	1.586	-13.9	92	0.02
12		Benzyl alcohol	0.891	1.035	-16.2	91	0.00
13		2-Methylphenol	1.215	1.382	-13.7	89	0.00
		2,2'-oxybis(1-Chloropropane	1.752	2.048	-16.9	94	0.00
		Hexachloroethane	0.693	0.792	-14.4	92	0.00
16		3+4-Methyphenols	1.174	1.359	-15.8	94	0.00
17	PM	N-Nitroso-di-n-propylamine	0.964	1.146	-18.9	97	0.00
18	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00
19	S	Nitrobenzene-d5	0.409	0.451	-10.4	94	0.00
20		Nitrobenzene	0.404	0.445	-10.3	93	0.00
21		Isophorone	0.807	0.885	-9.6	93	0.00
22	C	2-Nitrophenol	0.186	0.199	-7.3	90	0.00
23		2,4-Dimethylphenol	0.324	0.336	-3.8	89	0.00
24		bis(2-Chloroethoxy)methane	0.552	0.619	-12.1	93	0.00
25	C	2,4-Dichlorophenol	0.312	0.333	-6.7	88	0.00
26		Benzoic Acid	0.164	0.202	-22.7	138	0.01
27	M	1,2,4-Trichlorobenzene	0.347	0.367	-5.8	88	0.00
28		Naphthalene	0.994	1.039	-4.5	91	0.00
29		4-Chloroaniline	0.265	0.252	4.6	76	0.00
30	C	Hexachlorobutadiene	0.169	0.175	-3.6	88	0.00
31	CM	4-Chloro-3-methylphenol	0.322	0.347	-7.6	90	0.00
32		2-Methylnaphthalene	0.744	0.796	-7.0	88	0.00
33	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
34	P	Hexachlorocyclopentadiene	0.225	0.265	-17.6	98	0.00
35	C	2,4,6-Trichlorophenol	0.343	0.353	-3.1	88	0.00
36		2,4,5-Trichlorophenol	0.363	0.388	-7.0	88	0.00
	S	2-Fluorobiphenyl	1.292	1.365	-5.7	88	0.00
		2-Chloronaphthalene	1.003	1.096	-9.3	91	0.00
39		2-Nitroaniline	0.353	0.364	-3.0	98	0.01
40		Dimethylphthalate	1.246	1.376	-10.4	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.767	1.938	-9.7	90	0.01
42		2,6-Dinitrotoluene	0.317	0.356	-12.4	92	0.00
43		3-Nitroaniline	0.116	0.068	41.3	47#	0.01
44	CM	Acenaphthene	0.971	1.052	-8.3	89	0.00
45	P	2,4-Dinitrophenol	0.202	0.193	4.4	117	0.00
46		Dibenzofuran	1.541	1.581	-2.6	85	0.00
47	PM	4-Nitrophenol	0.126	0.097	23.1	73	0.01
48	M	2,4-Dinitrotoluene	0.423	0.499	-18.0	98	0.00
49		Fluorene	1.247	1.315	-5.5	90	0.01
50		Diethylphthalate	1.172	1.326	-13.1	95	0.00
51		4-Chlorophenyl-phenylether	0.503	0.527	-4.8	88	0.00
52	S	2,4,6-Tribromophenol	0.198	0.197	0.6	87	0.00
53		4-Nitroaniline	0.019	0.010#	50.7	97	0.00
54	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
55		4,6-Dinitro-2-methylphenol	0.165	0.180	-9.0	116	0.01
56	C	N-Nitrosodiphenylamine	0.412	0.541	-31.1#	107	0.00
57		1,2-Diphenylhydrazine	0.051	0.029	42.6	47#	0.00
58		4-Bromophenyl-phenylether	0.219	0.225	-2.7	88	0.01
59		Hexachlorobenzene	0.272	0.301	-10.6	95	0.00
60	CM	Pentachlorophenol	0.189	0.178	5.8	90	0.00
61		Phenanthrene	1.094	1.193	-9.0	93	0.00
62		Anthracene	1.048	1.181	-12.7	94	0.00
63		Di-n-butylphthalate	1.749	2.095	-19.8	100	0.00
64	C	Fluoranthene	1.250	1.387	-11.0	94	0.01
65	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
66	M	Pyrene	1.537	1.639	-6.6	92	0.00
67	S	Terphenyl-d14	1.162	1.246	-7.3	93	0.01
68		Butylbenzylphthalate	0.910	1.122	-23.2	113	0.00
69		Benzo[a]anthracene	1.332	1.375	-3.2	89	0.00
70		3,3'-Dichlorobenzidine	0.069	0.095	-36.4	107	0.07
71		Chrysene	1.076	1.125	-4.5	87	0.00
72		bis(2-Ethylhexyl)phthalate	1.283	1.490	-16.1	105	0.00
73	I	Perylene-d12	1.000	1.000	0.0	88	0.00
74	C	Di-n-octylphthalate	2.249	2.687	-19.5	104	0.00
75		Benzo[b]fluoranthene	1.260	1.391	-10.4	91	0.00
76		Benzo[k]fluoranthene	0.916	1.141	-24.6	84	0.00
77	C	Benzo[a]pyrene	1.108	1.203	-8.6	88	0.00
78		Indeno[1,2,3-cd]pyrene	1.174	1.072	8.6	84	0.00
79		Dibenz[a,h]anthracene	0.925	0.987	-6.7	83	0.01

(#) = Out of Range
S8021.D LBNAICC2.M Fri Jun 07 19:06:17 1996 BNA2

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm
Sample : 20 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
80	Benzo[g,h,i]perylene	1.019	1.031	-1.2	83	0.00

006162

(#) = Out of Range SPCC's out = 0 CCC's out = 1
S8021.D LBNAICC2.M Fri Jun 07 19:06:18 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 7 18:57 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	437191	20.00	ng/uL	0.00
18) Naphthalene-d8	10.72	136	1679364	20.00	ng/uL	0.00
33) Acenaphthene-d10	16.04	164	1111222	20.00	ng/uL	0.00
54) Phenanthrene-d10	20.47	188	1609319	20.00	ng/uL	0.00
65) Chrysene-d12	28.62	240	1378139	20.00	ng/uL	0.00
73) Perylene-d12	32.68	264	1381854	20.00	ng/uL	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.22	112	611527	21.69	ng/uL	
4) Phenol-d5	6.75	99	895097	22.86	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.60	152	546454	22.49	ng/uL	
19) Nitrobenzene-d5	8.80	82	758135	22.08	ng/uL	
37) 2-Fluorobiphenyl	14.19	172	1517327	21.14	ng/uL	
52) 2,4,6-Tribromophenol	18.52	330	219028	19.88	ng/uL	
67) Terphenyl-d14	25.63	244	1717263	21.45	ng/uL	
Target Compounds						Qva
3) Aniline	6.72	93	795263	22.50	ng/uL	99
5) Phenol	6.78	94	885641	22.80	ng/uL	98
6) bis(2-Chloroethyl)ether	6.72	93	795263	22.50	ng/uL	99
7) 2-Chlorophenol	6.71	128	644231	21.73	ng/uL	96
8) 1,3-Dichlorobenzene	6.98	146	722963	22.90	ng/uL	99
9) 1,4-Dichlorobenzene	7.15	146	732392	22.53	ng/uL	98
11) 1,2-Dichlorobenzene	7.64	146	693176	22.77	ng/uL	99
12) Benzyl alcohol	7.81	108	452562	23.24	ng/uL	98
13) 2-Methylphenol	8.34	108	604233	22.75	ng/uL	98
14) 2,2'-oxybis(1-Chloropropan	8.20	45	895291	23.38	ng/uL	98
15) Hexachloroethane	8.44	117	346326	22.88	ng/uL	96
16) 3+4-Methyphenols	8.80	108	594324	23.15	ng/uL	100
17) N-Nitroso-di-n-propylamine	8.63	70	501082	23.78	ng/uL	98
20) Nitrobenzene	8.84	77	747616	22.07	ng/uL	96
21) Isophorone	9.57	82	1485400	21.91	ng/uL	99
22) 2-Nitrophenol	9.77	139	334848	21.47	ng/uLm	99
23) 2,4-Dimethylphenol	10.25	107	564618	20.76	ng/uL	99
24) bis(2-Chloroethoxy)methane	10.44	93	1039543	22.41	ng/uL	100
25) 2,4-Dichlorophenol	10.56	162	559277	21.35	ng/uL	98
26) Benzoic Acid	10.99	105	338586	24.55	ng/uL	99
27) 1,2,4-Trichlorobenzene	10.66	180	615530	21.15	ng/uL	99
28) Naphthalene	10.77	128	1744522	20.90	ng/uL	99
29) 4-Chloroaniline	11.26	127	423834	19.07	ng/uL	96
30) Hexachlorobutadiene	11.45	225	293393	20.72	ng/uL	
31) 4-Chloro-3-methylphenol	12.99	107	582278	21.51	ng/uL	
32) 2-Methylnaphthalene	12.87	142	1336376	21.41	ng/uL	99
34) Hexachlorocyclopentadiene	13.61	237	294071	23.51	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 7 18:57 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35)	2,4,6-Trichlorophenol	13.98	196	392360	20.62	ng/uL	98
36)	2,4,5-Trichlorophenol	14.11	196	431531	21.40	ng/uL	97
38)	2-Chloronaphthalene	14.31	162	1217943	21.85	ng/uL	100
39)	2-Nitroaniline	14.96	65	404571	20.61	ng/uL	96
40)	Dimethylphthalate	15.73	163	1529347	22.09	ng/uL	98
41)	Acenaphthylene	15.55	152	2153779	21.93	ng/uL	99
42)	2,6-Dinitrotoluene	15.88	165	396137	22.48	ng/uL	98
43)	3-Nitroaniline	16.32	138	75671	11.73	ng/uL	88
44)	Acenaphthene	16.13	153	1168994	21.66	ng/uL	100
45)	2,4-Dinitrophenol	16.56	184	214307	19.11	ng/uL	95
46)	Dibenzofuran	16.63	168	1756777	20.52	ng/uL	98
47)	4-Nitrophenol	17.18	109	107831	15.37	ng/uL	94
48)	2,4-Dinitrotoluene	17.03	165	554992	23.61	ng/uL	98
49)	Fluorene	17.69	166	1460903	21.09	ng/uL	99
50)	Diethylphthalate	17.94	149	1473297	22.62	ng/uL	99
51)	4-Chlorophenyl-phenylether	17.86	204	586049	20.96	ng/uL	95
53)	4-Nitroaniline	18.16	138	10664	9.86	ng/uL	93
55)	4,6-Dinitro-2-methylphenol	18.23	198	289885	21.80	ng/uL	91
56)	N-Nitrosodiphenylamine	18.32	169	869924	26.22	ng/uL	99
58)	4-Bromophenyl-phenylether	19.32	248	361752	20.54	ng/uL	94
59)	Hexachlorobenzene	19.60	284	483803	22.11	ng/uL	98
60)	Pentachlorophenol	20.28	266	286906	18.84	ng/uL	98
61)	Phenanthrene	20.54	178	1919304	21.80	ng/uL	100
62)	Anthracene	20.68	178	1900795	22.54	ng/uL	99
63)	Di-n-butylphthalate	22.96	149	3371489	23.95	ng/uL	100
64)	Fluoranthene	24.18	202	2232714	22.19	ng/uL	96
66)	Pyrene	24.80	202	2258130	21.32	ng/uL	99
68)	Butylbenzylphthalate	27.45	149	1545719	24.64	ng/uL	96
69)	Benzo[a]anthracene	28.56	228	1894375	20.64	ng/uL	99
70)	3,3'-Dichlorobenzidine	28.89	252	130279	27.29	ng/uL	98
71)	Chrysene	28.70	228	1550831	20.91	ng/uL	99
72)	bis(2-Ethylhexyl)phthalate	29.44	149	2053534	23.22	ng/uL	99
74)	Di-n-octylphthalate	31.23	149	3713591	23.90	ng/uL	100
75)	Benzo[b]fluoranthene	31.69	252	1921981	22.08	ng/uL	97
76)	Benzo[k]fluoranthene	31.76	252	1577295	24.92	ng/uL	96
77)	Benzo[a]pyrene	32.52	252	1662632	21.71	ng/uL	95
78)	Indeno[1,2,3-cd]pyrene	35.24	276	1482016	18.27	ng/uL	93
79)	Dibenz[a,h]anthracene	35.33	278	1363798	21.34	ng/uL	94
80)	Benzo[g,h,i]perylene	35.79	276	1425183	20.24	ng/uL	99

000164

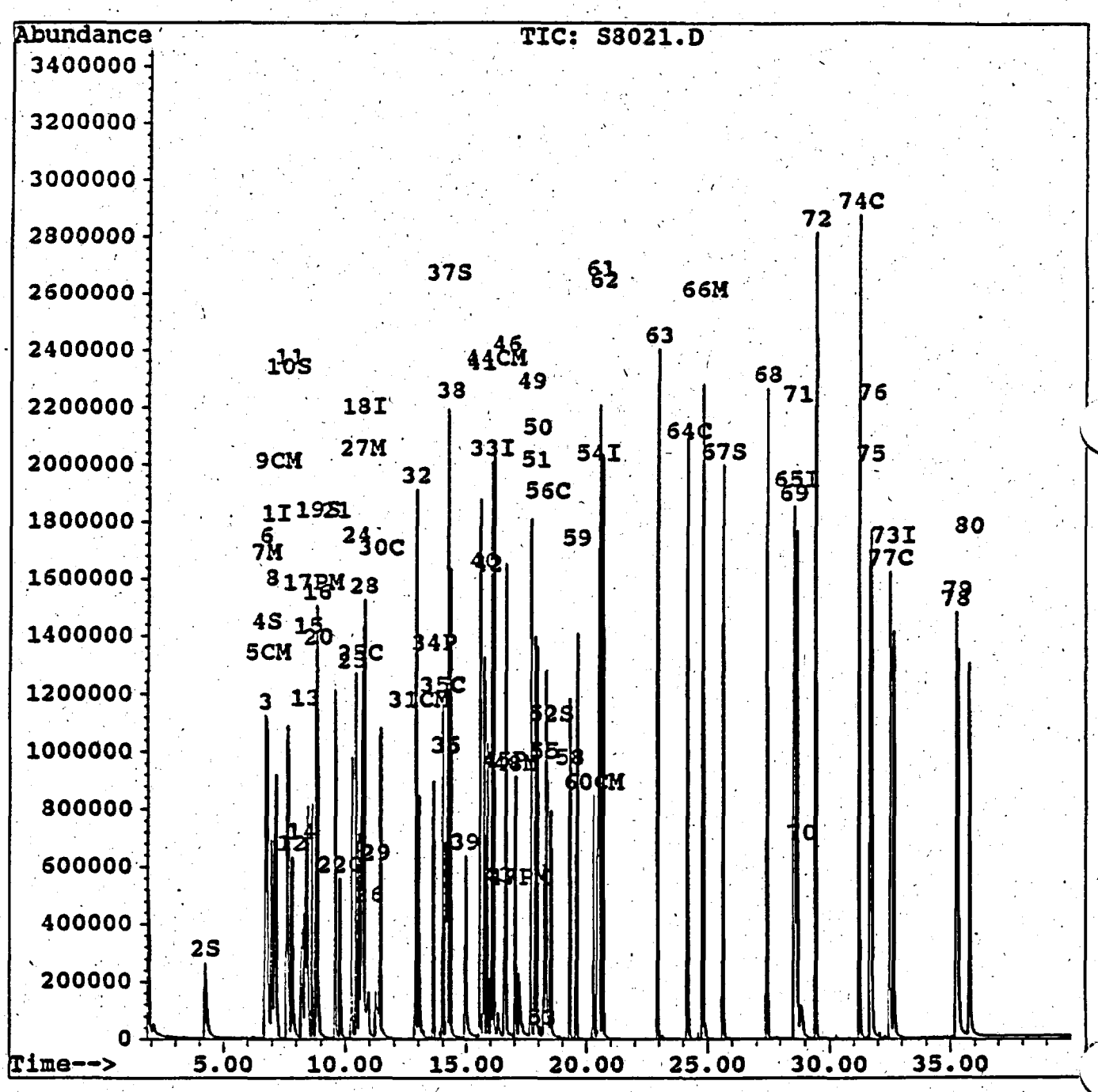
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8021.D
Acq Time : 7 Jun 96 5:39 pm
Sample : 20 PPM BNA CCC
Misc :
Quant Time: Jun 7 18:57 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8022.D
Acq Time : 7 Jun 96 6:31 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 7 19:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	390981	20.00	ng/uL	0.00
18) Naphthalene-d8	10.74	136	1456622	20.00	ng/uL	0.02
33) Acenaphthene-d10	16.05	164	1011400	20.00	ng/uL	0.01
54) Phenanthrene-d10	20.49	188	1503494	20.00	ng/uL	0.02
65) Chrysene-d12	28.65	240	1038218	20.00	ng/uL	0.03
73) Perylene-d12	32.70	264	1195607	20.00	ng/uL	0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	2341210	92.85	ng/uL	
4) Phenol-d5	6.78	99	2759548	78.80	ng/uL	
10) 1,2-Dichlorobenzene-d4	7.61	152	1735332	79.86	ng/uL	
19) Nitrobenzene-d5	8.82	82	2346514	78.79	ng/uL	
37) 2-Fluorobiphenyl	14.23	172	4501761	68.90	ng/uL	
52) 2,4,6-Tribromophenol	18.55	330	793494	79.12	ng/uL	
67) Terphenyl-d14	25.66	244	5329967	88.38	ng/uL	
Target Compounds						Qvalue
5) Phenol	6.81	94	2599211	74.81	ng/uL	98
6) bis(2-Chloroethyl)ether	6.74	93	2519103	79.69	ng/uL	96
7) 2-Chlorophenol	6.71	128	2229239	84.07	ng/uL	99
8) 1,3-Dichlorobenzene	6.98	146	2282302	80.82	ng/uL	100
9) 1,4-Dichlorobenzene	7.16	146	2222798	76.47	ng/uL	99
11) 1,2-Dichlorobenzene	7.64	146	2014254	74.00	ng/uL	100
12) Benzyl alcohol	7.84	108	1637480	94.03	ng/uL	98
13) 2-Methylphenol	8.36	108	1705889	71.81	ng/uL	99
14) 2,2'-oxybis(1-Chloropropan	8.22	45	2974500	86.85	ng/uL	98
15) Hexachloroethane	8.45	117	1106577	81.73	ng/uL	96
16) 3+4-Methyphenols	8.85	108	1863841	81.18	ng/uL	99
17) N-Nitroso-di-n-propylamine	8.71	70	1627843	86.40	ng/uL	99
20) Nitrobenzene	8.89	77	2083244	70.89	ng/uL	97
21) Isophorone	9.62	82	5225288	88.87	ng/uL	99
22) 2-Nitrophenol	9.79	139	1340307	99.06	ng/uL	97
23) 2,4-Dimethylphenol	10.30	107	1919287	81.37	ng/uL	100
24) bis(2-Chloroethoxy)methane	10.48	93	3258921	81.00	ng/uL	98
25) 2,4-Dichlorophenol	10.59	162	1782329	78.43	ng/uL	97
26) Benzoic Acid	11.32	105	1742086	145.63	ng/uL	97
27) 1,2,4-Trichlorobenzene	10.67	180	1800120	71.31	ng/uL	99
28) Naphthalene	10.80	128	5275577	72.86	ng/uL	99
29) 4-Chloroaniline	11.37	127	622605	32.30	ng/uL	99
30) Hexachlorobutadiene	11.46	225	985086	80.20	ng/uL	99
31) 4-Chloro-3-methylphenol	13.00	107	1896983	80.80	ng/uL	93
32) 2-Methylnaphthalene	12.89	142	4264558	78.75	ng/uL	99
34) Hexachlorocyclopentadiene	13.62	237	1130582	99.31	ng/uL	99
35) 2,4,6-Trichlorophenol	14.01	196	1461348	84.36	ng/uL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8022.D
Acq Time : 7 Jun 96 6:31 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 7 19:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	2,4,5-Trichlorophenol	14.12	196	1438484	78.36	ng/uL	97
38)	2-Chloronaphthalene	14.35	162	3429705	67.61	ng/uL	99
39)	2-Nitroaniline	15.00	65	1443949	80.81	ng/uL	92
40)	Dimethylphthalate	15.79	163	4692126	74.45	ng/uL	99
41)	Acenaphthylene	15.58	152	6661107	74.53	ng/uL	100
42)	2,6-Dinitrotoluene	15.95	165	1317451	82.16	ng/uL	93
43)	3-Nitroaniline	16.36	138	185331	31.57	ng/uL	90
44)	Acenaphthene	16.17	153	3598625	73.28	ng/uL	100
45)	2,4-Dinitrophenol	16.60	184	1089311	106.74	ng/uL	95
46)	Dibenzofuran	16.68	168	5598362	71.84	ng/uL	98
47)	4-Nitrophenol	17.21	109	514487	80.58	ng/uL	90
48)	2,4-Dinitrotoluene	17.09	165	1904433	89.00	ng/uL	92
49)	Fluorene	17.72	166	4884216	77.48	ng/uL	98
50)	Diethylphthalate	17.98	149	4369531	73.71	ng/uL	99
51)	4-Chlorophenyl-phenylether	17.89	204	1891908	74.34	ng/uL	99
53)	4-Nitroaniline	18.24	138	67738	68.82	ng/uL	
55)	4,6-Dinitro-2-methylphenol	18.31	198	1223061	98.44	ng/uL	
56)	N-Nitrosodiphenylamine	18.37	169	2096557	67.63	ng/uL	99
58)	4-Bromophenyl-phenylether	19.33	248	1270389	77.22	ng/uL	99
59)	Hexachlorobenzene	19.63	284	1604234	78.48	ng/uL	98
60)	Pentachlorophenol	20.33	266	1169754	82.22	ng/uL	99
61)	Phenanthrene	20.60	178	5808440	70.62	ng/uL	100
62)	Anthracene	20.73	178	5264414	66.82	ng/uL	99
63)	Di-n-butylphthalate	22.98	149	10287223	78.23	ng/uL	98
64)	Fluoranthene	24.22	202	6632335	70.56	ng/uL	99
66)	Pyrene	24.86	202	6804117	85.27	ng/uL	97
68)	Butylbenzylphthalate	27.50	149	4908482	103.87	ng/uL	93
69)	Benzo[a]anthracene	28.61	228	6182174	89.39	ng/uL	99
70)	3,3'-Dichlorobenzidine	28.83	252	315376	87.69	ng/uL	98
71)	Chrysene	28.76	228	4343472	77.73	ng/uL	100
72)	bis(2-Ethylhexyl)phthalate	29.47	149	6114743	91.78	ng/uL	99
74)	Di-n-octylphthalate	31.28	149	11176369	83.12	ng/uL	100
75)	Benzo[b]fluoranthene	31.78	252	6586363	87.45	ng/uLm	99
76)	Benzo[k]fluoranthene	31.86	252	4414853	80.63	ng/uLm	97
77)	Benzo[a]pyrene	32.58	252	5557290	83.89	ng/uL	95
78)	Indeno[1,2,3-cd]pyrene	35.28	276	6536845	93.16	ng/uL	95
79)	Dibenz[a,h]anthracene	35.40	278	4334020	78.38	ng/uL	96
80)	Benzo[g,h,i]perylene	35.89	276	4943468	81.15	ng/uL	99

00167

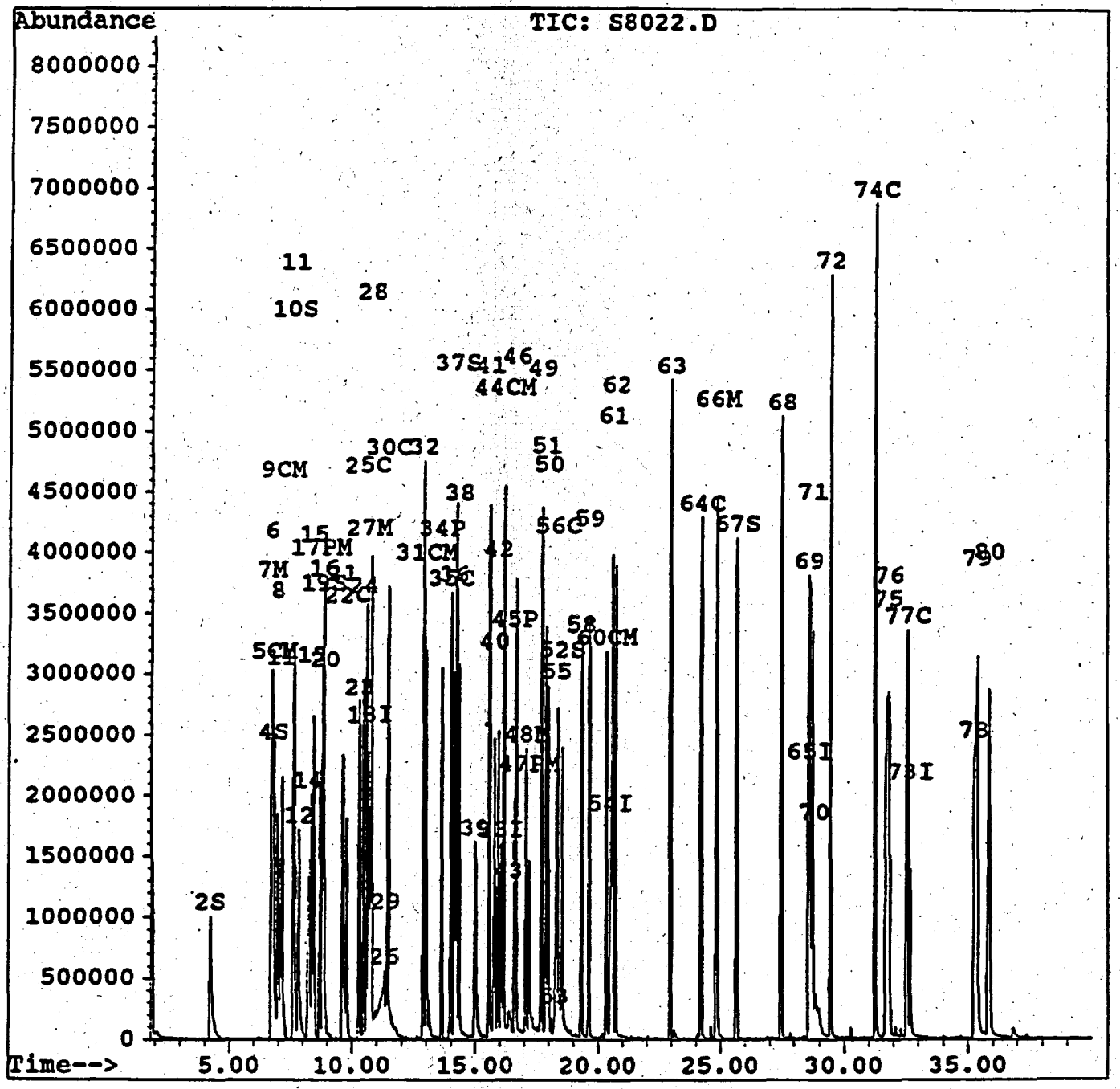
(#) = qualifier out of range (m) = manual integration
S8022.D LBNAICC2.M Fri Jun 07 19:52:34 1996 BNA2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8022.D
Acq Time : 7 Jun 96 6:31 pm
Sample : 80 PPM BNA CCC
Misc :
Quant Time: Jun 7 19:51 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 06 23:07:31 1996
Response via : Multiple Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :
Quant Time: Jun 7 23:47 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	439631	20.00	ng/uL	0.12
21) Naphthalene-d8	10.72	136	1609497	20.00	ng/uL	0.12
36) Acenaphthene-d10	16.04	164	1052803	20.00	ng/uL	0.13
57) Phenanthrene-d10	20.49	188	1542430	20.00	ng/uL	0.15
69) Chrysene-d12	28.63	240	1317036	20.00	ng/uL	0.16
78) Perylene-d12	32.69	264	1457774	20.00	ng/uL	0.16
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol	4.22	112	879086	25.39	ng/uL	
6) 2-Chlorophenol-d4	6.66	132	958324	27.69	ng/uL	
7) Phenol-d5	6.77	99	1159294	28.71	ng/uL	
13) 1,2-Dichlorobenzene-d4	7.60	152	629113	25.82	ng/uL	
22) Nitrobenzene-d5	8.80	82	889741	27.73	ng/uL	
40) 2-Fluorobiphenyl	14.19	172	1792951	29.46	ng/uL	
55) 2,4,6-Tribromophenol	18.53	330	338993	28.32	ng/uL	
72) Terphenyl-d14	25.63	244	1888146	23.30	ng/uL	
Target Compounds						Qvalue
2) Pyridine	1.97	79	821804	29.60	ng/uL	99
3) N-nitroso-dimethylamine	1.97	42	310717	30.89	ng/uL	97
5) Aniline	6.49	93	1402431	24.26	ng/uL	98
8) Phenol	6.80	94	1120208	28.58	ng/uL	99
9) bis(2-Chloroethyl)ether	6.74	93	1076266	31.16	ng/uL	100
10) 2-Chlorophenol	6.71	128	868472	27.71	ng/uL	97
11) 1,3-Dichlorobenzene	6.99	146	879849	24.90	ng/uL	99
12) 1,4-Dichlorobenzene	7.15	146	933842	26.58	ng/uL	100
14) 1,2-Dichlorobenzene	7.64	146	869938	26.13	ng/uL	99
15) Benzyl alcohol	7.80	108	612260	25.26	ng/uL	99
16) 2-Methylphenol	8.34	108	976512	26.48	ng/uL	98
17) 2,2'-oxybis(1-Chloropropan	8.22	45	1222950	25.41	ng/uL	99
18) Hexachloroethane	8.44	117	452513	25.68	ng/uL	97
19) 3+4-Methyphenols	8.81	108	977095	26.91	ng/uL	98
20) N-Nitroso-di-n-propylamine	8.65	70	613907	25.50	ng/uL	97
23) Nitrobenzene	8.86	77	702075	21.58	ng/uLm	98
24) Isophorone	9.58	82	2113288	24.17	ng/uL	98
25) 2-Nitrophenol	9.77	139	549494	25.81	ng/uL	99
26) 2,4-Dimethylphenol	10.26	107	866342	25.25	ng/uL	97
27) bis(2-Chloroethoxy)methane	10.46	93	1558039	27.27	ng/uL	99
28) 2,4-Dichlorophenol	10.56	162	769661	25.52	ng/uL	98
29) Benzoic Acid	11.17	105	611297	25.77	ng/uLm	96
30) 1,2,4-Trichlorobenzene	10.66	180	799647	27.15	ng/uL	
31) Naphthalene	10.78	128	2135511	26.51	ng/uL	
32) 4-Chloroaniline	11.23	127	951390	24.49	ng/uL	99
33) Hexachlorobutadiene	11.44	225	417819	27.71	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :
Quant Time: Jun 7 23:47 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34)	4-Chloro-3-methylphenol	12.97	107	880264	28.27	ng/uL	97
35)	2-Methylnaphthalene	12.87	142	1686828	25.91	ng/uL	98
37)	Hexachlorocyclopentadiene	13.61	237	488557	29.67	ng/uL	100
38)	2,4,6-Trichlorophenol	13.98	196	598762	27.77	ng/uL	96
39)	2,4,5-Trichlorophenol	14.10	196	696955	28.37	ng/uL	98
41)	2-Chloronaphthalene	14.31	162	1668952	28.98	ng/uL	99
42)	2-Nitroaniline	14.96	65	562448	26.38	ng/uL	96
43)	Dimethylphthalate	15.74	163	2054415	27.78	ng/uL	99
44)	Acenaphthylene	15.55	152	2792664	26.86	ng/uL	99
45)	2,6-Dinitrotoluene	15.89	165	545628	27.17	ng/uL	96
46)	3-Nitroaniline	16.29	138	336316	21.78	ng/uLm	96
47)	Acenaphthene	16.14	153	1451463	28.09	ng/uL	99
48)	2,4-Dinitrophenol	16.57	184	304121	31.62	ng/uL	92
49)	Dibenzofuran	16.65	168	2360026	27.44	ng/uL	100
50)	4-Nitrophenol	17.17	109	176332	25.06	ng/uL	95
51)	2,4-Dinitrotoluene	17.05	165	754708	25.82	ng/uL	89
52)	Fluorene	17.69	166	1888588	26.89	ng/uL	100
53)	Diethylphthalate	17.95	149	1978510	28.79	ng/uL	99
54)	4-Chlorophenyl-phenylether	17.86	204	792741	27.73	ng/uL	98
56)	4-Nitroaniline	18.19	138	476476	27.48	ng/uLm	93
58)	4,6-Dinitro-2-methylphenol	18.26	198	340216	30.70	ng/uLm	92
59)	N-Nitrosodiphenylamine	18.32	169	807292	29.15	ng/uL	99
60)	1,2-Diphenylhydrazine	18.31	77	2260986	30.48	ng/uL	98
61)	4-Bromophenyl-phenylether	19.32	248	522111	26.86	ng/uL	94
62)	Hexachlorobenzene	19.60	284	659076	26.62	ng/uL	98
63)	Pentachlorophenol	20.29	266	556960	25.75	ng/uL	99
64)	Phenanthrene	20.56	178	2255553	26.06	ng/uL	100
65)	Anthracene	20.69	178	2325739	26.78	ng/uL	100
66)	Carbazole	21.36	167	1185021	18.12	ng/uL	99
67)	Di-n-butylphthalate	22.96	149	4396578	27.62	ng/uL	99
68)	Fluoranthene	24.19	202	2644673	27.05	ng/uL	98
70)	Benzidine	24.91	184	379030	14.35	ng/uL	97
71)	Pyrene	24.81	202	2760145	23.89	ng/uL	98
73)	Butylbenzylphthalate	27.46	149	2180926	24.11	ng/uL	99
74)	Benzo[a]anthracene	28.57	228	2545602	24.41	ng/uL	100
75)	3,3'-Dichlorobenzidine	28.81	252	330198	22.02	ng/uL	96
76)	Chrysene	28.71	228	1883863	26.40	ng/uL	99
77)	bis(2-Ethylhexyl)phthalate	29.45	149	2815703	25.02	ng/uL	99
79)	Di-n-octylphthalate	31.24	149	5478793	24.44	ng/uL	100
80)	Benzo[b]fluoranthene	31.71	252	2471527	24.71	ng/uL	98
81)	Benzo[k]fluoranthene	31.79	252	2017992	27.04	ng/uL	97
82)	Benzo[a]pyrene	32.54	252	2403996	24.91	ng/uL	99
83)	Indeno[1,2,3-cd]pyrene	35.26	276	2800081	31.25	ng/uL	98
84)	Dibenz[a,h]anthracene	35.35	278	1987227	30.51	ng/uL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :
Quant Time: Jun 7 23:47 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) Benzo[g,h,i]perylene	35.83	276	2234773	30.73	ng/uL	99

00171

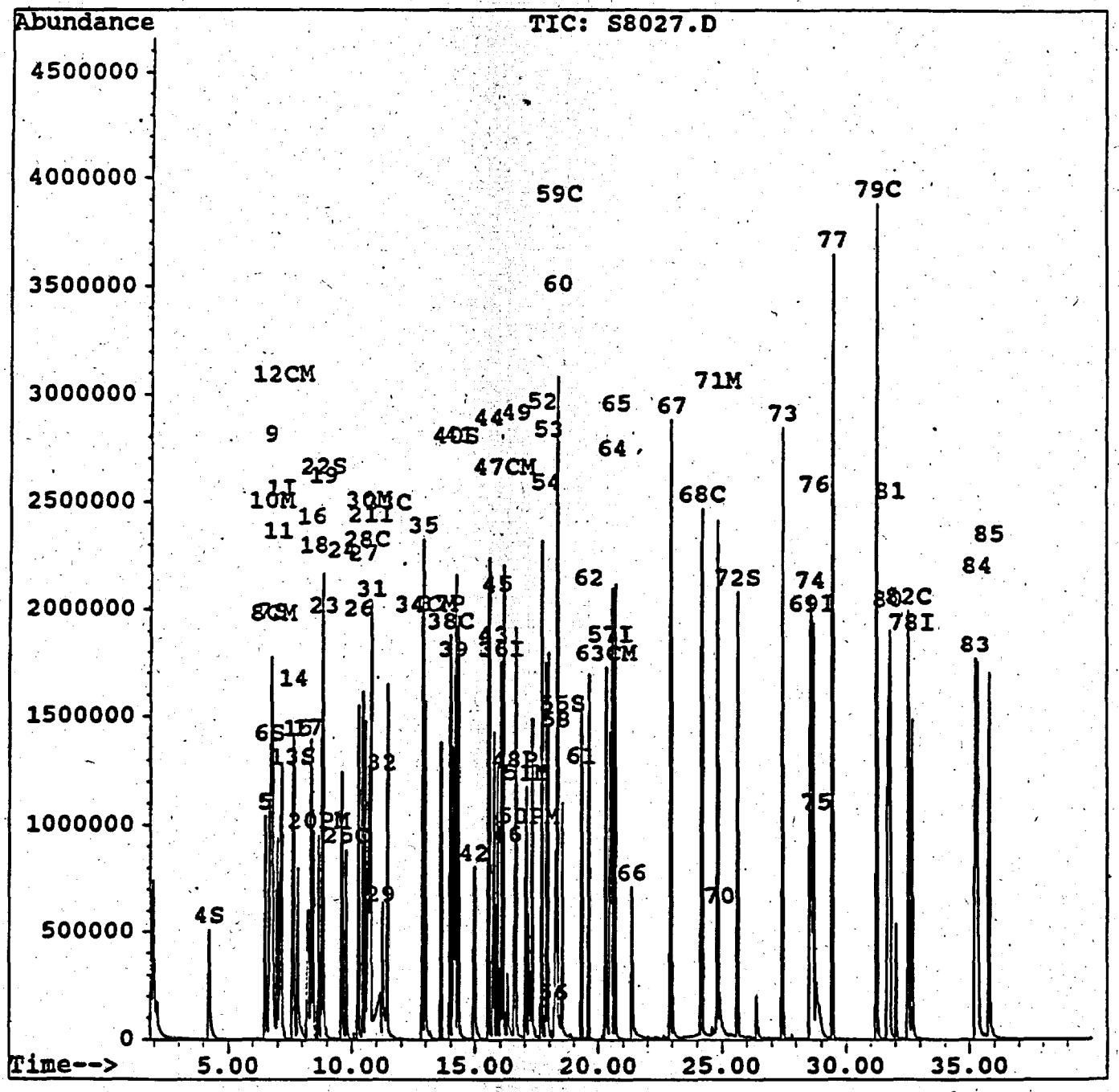
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :
Quant Time: Jun 7 23:47 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration



00,172

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.12
2		Pyridine	1.263	1.495	-18.4	88	0.09
3		N-nitroso-dimethylamine	0.458	0.565	-23.6	96	0.06
4	S	2-Fluorophenol	1.575	1.600	-1.6	83	0.12
5		Aniline	2.630	2.552	3.0	79	0.10
6	S	2-Chlorophenol-d4	1.574	1.744	-10.8	85	0.10
7	S	Phenol-d5	1.837	2.110	-14.8	86	0.10
8	CM	Phenol	1.783	2.038	-14.3	88	0.10
9		bis(2-Chloroethyl)ether	1.572	1.958	-24.6	88	0.10
10	M	2-Chlorophenol	1.426	1.580	-10.9	86	0.12
11		1,3-Dichlorobenzene	1.607	1.601	0.4	81	0.12
12	CM	1,4-Dichlorobenzene	1.598	1.699	-6.3	86	0.12
13	S	1,2-Dichlorobenzene-d4	1.108	1.145	-3.3	82	0.10
14		1,2-Dichlorobenzene	1.515	1.583	-4.5	81	0.12
15		Benzyl alcohol	1.103	1.114	-1.1	86	0.10
16		2-Methylphenol	1.678	1.777	-5.9	83	0.10
17		2,2'-oxybis(1-Chloropropane	2.190	2.225	-1.6	81	0.12
18		Hexachloroethane	0.802	0.823	-2.7	79	0.12
19		3+4-Methyphenols	1.652	1.778	-7.7	84	0.10
20	PM	N-Nitroso-di-n-propylamine	1.095	1.117	-2.0	85	0.10
21	I	Naphthalene-d8	1.000	1.000	0.0	82	0.12
22	S	Nitrobenzene-d5	0.399	0.442	-10.9	88	0.12
23		Nitrobenzene	0.404	0.349	13.7	75	0.12
24		Isophorone	1.087	1.050	3.3	82	0.10
25	C	2-Nitrophenol	0.265	0.273	-3.2	84	0.12
26		2,4-Dimethylphenol	0.426	0.431	-1.0	81	0.10
27		bis(2-Chloroethoxy)methane	0.710	0.774	-9.1	90	0.10
28	C	2,4-Dichlorophenol	0.375	0.383	-2.1	81	0.12
29		Benzoic Acid	0.295	0.304	-3.1	88	0.13
30	M	1,2,4-Trichlorobenzene	0.366	0.397	-8.6	81	0.12
31		Naphthalene	1.001	1.061	-6.1	84	0.12
32		4-Chloroaniline	0.483	0.473	2.0	84	0.12
33	C	Hexachlorobutadiene	0.187	0.208	-10.8	85	0.12
34	CM	4-Chloro-3-methylphenol	0.387	0.438	-13.1	87	0.12
35		2-Methylnaphthalene	0.809	0.838	-3.6	87	0.13
36	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.13
37	P	Hexachlorocyclopentadiene	0.313	0.371	-18.7	91	0.13
38	C	2,4,6-Trichlorophenol	0.410	0.455	-11.1	87	0.12
39		2,4,5-Trichlorophenol	0.467	0.530	-13.5	82	0.13
40	S	2-Fluorobiphenyl	1.156	1.362	-17.8	85	0.12

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		2-Chloronaphthalene	1.094	1.268	-15.9	85	0.12
42		2-Nitroaniline	0.405	0.427	-5.5	85	0.13
43		Dimethylphthalate	1.405	1.561	-11.1	85	0.12
44		Acenaphthylene	1.975	2.122	-7.5	81	0.13
45		2,6-Dinitrotoluene	0.381	0.415	-8.7	82	0.12
46		3-Nitroaniline	0.293	0.256	12.9	89	0.13
47	CM	Acenaphthene	0.982	1.103	-12.3	84	0.13
48	P	2,4-Dinitrophenol	0.183	0.231	-26.5	116	0.15
49		Dibenzofuran	1.634	1.793	-9.8	82	0.13
50	PM	4-Nitrophenol	0.134	0.134	-0.2	81	0.13
51	M	2,4-Dinitrotoluene	0.555	0.573	-3.3	82	0.12
52		Fluorene	1.334	1.435	-7.6	79	0.13
53		Diethylphthalate	1.306	1.503	-15.2	86	0.12
		4-Chlorophenyl-phenylether	0.543	0.602	-10.9	84	0.13
	S	2,4,6-Tribromophenol	0.227	0.258	-13.3	86	0.13
56		4-Nitroaniline	0.329	0.362	-9.9	94	0.15
57	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.15
58		4,6-Dinitro-2-methylphenol	0.144	0.176	-22.8	90	0.13
59	C	N-Nitrosodiphenylamine	0.359	0.419	-16.6	86	0.13
60		1,2-Diphenylhydrazine	0.962	1.173	-21.9	88	0.13
61		4-Bromophenyl-phenylether	0.252	0.271	-7.5	83	0.15
62		Hexachlorobenzene	0.321	0.342	-6.5	82	0.13
63	CM	Pentachlorophenol	0.280	0.289	-3.0	80	0.13
64		Phenanthrene	1.122	1.170	-4.2	78	0.15
65		Anthracene	1.126	1.206	-7.1	78	0.15
66		Carbazole	0.848	0.615	27.5	70	0.15
67		Di-n-butylphthalate	2.064	2.280	-10.5	85	0.13
68	C	Fluoranthene	1.268	1.372	-8.2	82	0.16
69	I	Chrysene-d12	1.000	1.000	0.0	87	0.16
70		Benzidine	0.401	0.230	42.6	78	0.16
71	M	Pyrene	1.754	1.677	4.4	86	0.15
72	S	Terphenyl-d14	1.231	1.147	6.8	83	0.15
73		Butylbenzylphthalate	1.374	1.325	3.6	87	0.15
74		Benzo[a]anthracene	1.584	1.546	2.4	87	0.16
75		3,3'-Dichlorobenzidine	0.228	0.201	11.9	77	0.19
76		Chrysene	1.084	1.144	-5.6	85	0.15
		bis(2-Ethylhexyl)phthalate	1.709	1.710	-0.1	88	0.15
78	I	Perylene-d12	1.000	1.000	0.0	91	0.16
79	C	Di-n-octylphthalate	3.075	3.007	2.2	91	0.15

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8027.D
Acq Time : 7 Jun 96 10:51 pm
Sample : 25 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration
Last Update : Fri Jun 07 23:40:23 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
80		Benzo[b]fluoranthene	1.372	1.356	1.2	92	0.16
81		Benzo[k]fluoranthene	1.024	1.107	-8.2	109	0.16
82	C	Benzo[a]pyrene	1.324	1.319	0.4	94	0.18
83		Indeno[1,2,3-cd]pyrene	1.229	1.537	-25.0	112	0.19
84		Dibenz[a,h]anthracene	0.894	1.091	-22.0	113	0.19
85		Benzo[g,h,i]perylene	0.998	1.226	-22.9	112	0.21

006175

(#) = Out of Range SPCC's out = 0 CCC's out = 0
S8027.D BNAICC2.M Fri Jun 07 23:49:33 1996 BNA2

R320755

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8022.D
Acq Time : 7 Jun 96 6:31 pm
Sample : 80 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2	S	2-Fluorophenol	1.445	1.497	-3.6	110	-0.01
3		Aniline	1.608	1.611	-0.2	104	0.02
4	S	Phenol-d5	1.783	1.765	1.1	102	0.03
5	CM	Phenol	1.702	1.662	2.4	101	0.03
6		bis(2-Chloroethyl)ether	1.609	1.611	-0.1	104	0.02
7	M	2-Chlorophenol	1.409	1.425	-1.1	105	0.00
8		1,3-Dichlorobenzene	1.436	1.459	-1.7	107	0.00
9	CM	1,4-Dichlorobenzene	1.483	1.421	4.1	103	0.02
10		1,2-Dichlorobenzene-d4	N/A	1.000	69.0	37#	-28.17#
11		1,2-Dichlorobenzene	1.317	1.288	2.2	106	0.02
12		Benzyl alcohol	1.010	1.047	-3.6	110	0.03
13		2-Methylphenol	1.268	1.091	14.0	115	0.02
		2,2'-oxybis(1-Chloropropane	1.855	1.902	-2.5	110	0.02
		Hexachloroethane	0.692	0.708	-2.3	109	0.00
16		3+4-Methyphenols	1.174	1.192	-1.5	106	0.05
17	PM	N-Nitroso-di-n-propylamine	1.021	1.041	-2.0	109	0.08
18	I	Naphthalene-d8	1.000	1.000	0.0	107	0.02
19	S	Nitrobenzene-d5	0.407	0.403	1.0	107	0.02
20		Nitrobenzene	0.380	0.358	5.9	104	0.05
21		Isophorone	0.889	0.897	-0.9	113	0.05
22	C	2-Nitrophenol	0.221	0.230	-4.2	109	0.02
23		2,4-Dimethylphenol	0.345	0.329	4.6	104	0.05
24		bis(2-Chloroethoxy)methane	0.576	0.559	2.8	104	0.03
25	C	2,4-Dichlorophenol	0.326	0.306	6.2	106	0.03
26		Benzoic Acid	0.215	0.299	-38.8	153#	0.35
27	M	1,2,4-Trichlorobenzene	0.337	0.309	8.3	102	0.00
28		Naphthalene	0.950	0.905	4.7	104	0.03
29		4-Chloroaniline	0.240	0.107	55.4	40#	0.11
30	C	Hexachlorobutadiene	0.173	0.169	2.4	104	0.00
31	CM	4-Chloro-3-methylphenol	0.333	0.326	2.4	108	0.00
32		2-Methylnaphthalene	0.755	0.732	3.0	106	0.02
33	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.01
34	P	Hexachlorocyclopentadiene	0.268	0.279	-4.1	110	0.00
35	C	2,4,6-Trichlorophenol	0.355	0.361	-1.7	111	0.02
36		2,4,5-Trichlorophenol	0.363	0.356	2.0	110	0.00
	S	2-Fluorobiphenyl	1.147	1.113	3.0	103	0.04
		2-Chloronaphthalene	0.907	0.848	6.6	100	0.04
39		2-Nitroaniline	0.353	0.357	-1.0	109	0.06
40		Dimethylphthalate	1.236	1.160	6.1	103	0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S8022.D
Acq Time : 7 Jun 96 6:31 pm
Sample : 80 PPM BNA CCC
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC3.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 15:49:53 1996
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 150%

		Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41		Acenaphthylene	1.727	1.647	4.7	105	0.04
42		2,6-Dinitrotoluene	0.331	0.326	1.5	103	0.07
43		3-Nitroaniline	0.116	0.046	60.5	50	0.06
44	CM	Acenaphthene	0.921	0.890	3.5	106	0.04
45	P	2,4-Dinitrophenol	0.202	0.269	-33.4	143	0.04
46		Dibenzofuran	1.439	1.384	3.8	108	0.04
47	PM	4-Nitrophenol	0.126	0.127	-0.7	109	0.04
48	M	2,4-Dinitrotoluene	0.472	0.471	0.3	108	0.06
49		Fluorene	1.190	1.207	-1.4	108	0.04
50		Diethylphthalate	1.113	1.080	2.9	105	0.05
51		4-Chlorophenyl-phenylether	0.482	0.468	2.9	105	0.03
52	S	2,4,6-Tribromophenol	0.198	0.196	1.1	107	0.03
53		4-Nitroaniline	0.019	0.017	14.0	134	0.08
54	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.02
55		4,6-Dinitro-2-methylphenol	0.165	0.203	-23.0	130	0.09
56	C	N-Nitrosodiphenylamine	0.366	0.349	4.8	109	0.05
57		1,2-Diphenylhydrazine	0.043	0.037	13.5	99	0.08
58		4-Bromophenyl-phenylether	0.223	0.211	5.5	103	0.03
59		Hexachlorobenzene	0.272	0.267	1.8	108	0.03
60	CM	Pentachlorophenol	0.189	0.195	-2.8	110	0.05
61		Phenanthrene	1.029	0.966	6.1	105	0.05
62		Anthracene	0.936	0.875	6.5	104	0.05
63		Di-n-butylphthalate	1.729	1.711	1.1	108	0.02
64	C	Fluoranthene	1.189	1.103	7.3	102	0.06
65	I	Chrysene-d12	1.000	1.000	0.0	103	0.03
66	M	Pyrene	1.622	1.638	-1.0	107	0.06
67	S	Terphenyl-d14	1.241	1.283	-3.4	110	0.04
68		Butylbenzylphthalate	1.044	1.182	-13.2	118	0.04
69		Benzo[a]anthracene	1.464	1.489	-1.7	109	0.05
70		3,3'-Dichlorobenzidine	0.082	0.076	7.1	102	0.02
71		Chrysene	1.052	1.046	0.6	105	0.06
72		bis(2-Ethylhexyl)phthalate	1.392	1.472	-5.8	111	0.03
73	I	Perylene-d12	1.000	1.000	0.0	107	0.02
74	C	Di-n-octylphthalate	2.319	2.337	-0.8	110	0.05
75		Benzo[b]fluoranthene	1.582	1.377	12.9	105	0.10
76		Benzo[k]fluoranthene	1.330	0.923	30.6	129	0.10
77	C	Benzo[a]pyrene	1.181	1.162	1.6	110	0.07
78		Indeno[1,2,3-cd]pyrene	1.068	1.367	-28.0	108	0.04
79		Dibenz[a,h]anthracene	0.962	0.906	5.8	105	0.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0

(d)

Semivolatiles Data

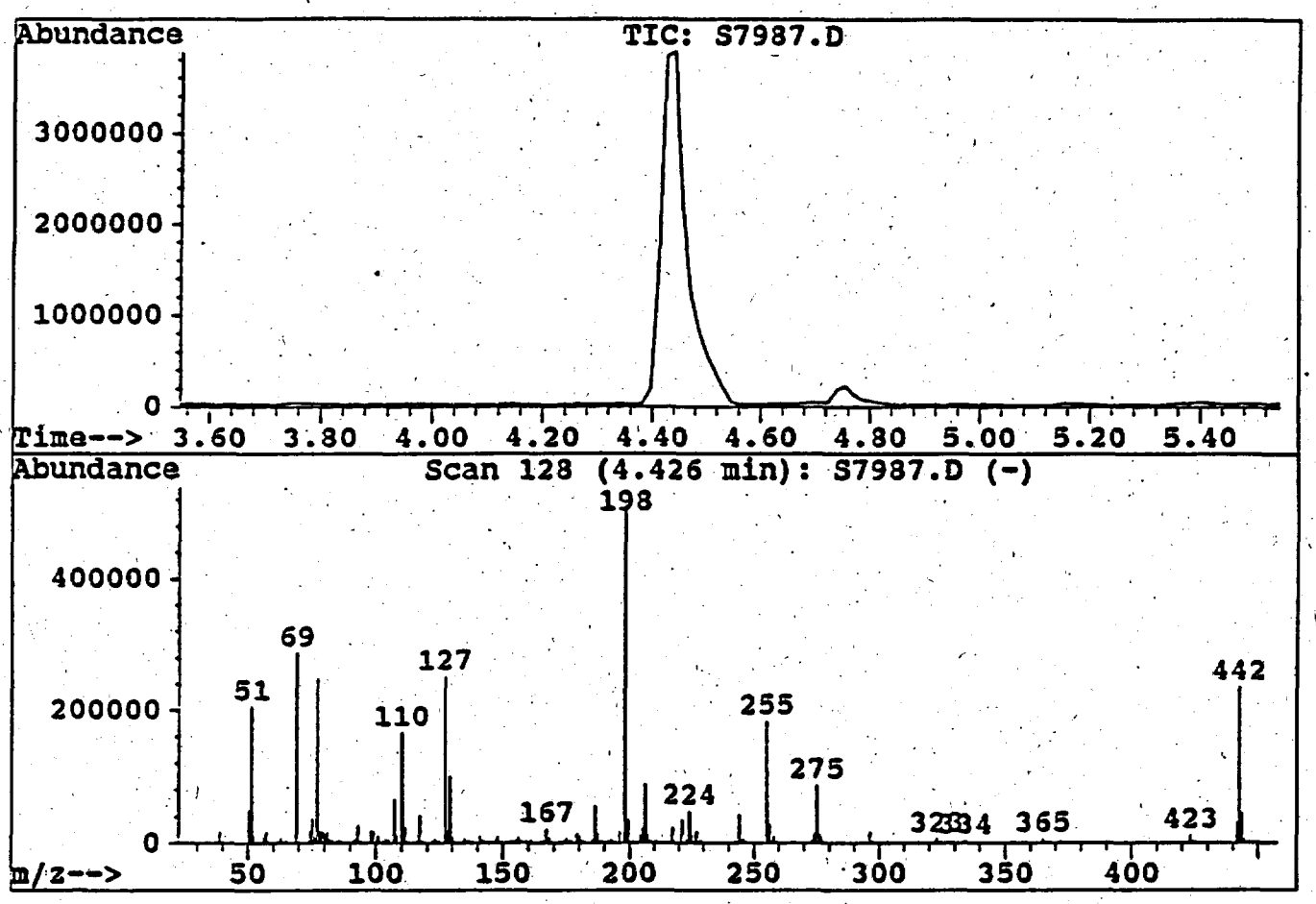
QC Data

DFTPP

Data File : C:\HPCHEM\1\DATA\S7987.D
Acq Time : 4 Jun 96 5:28 pm
Sample : 50 NG DFTPP
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNAICC2.M
Title : CLP BNA Calibration



Peak Apex is scan: 136

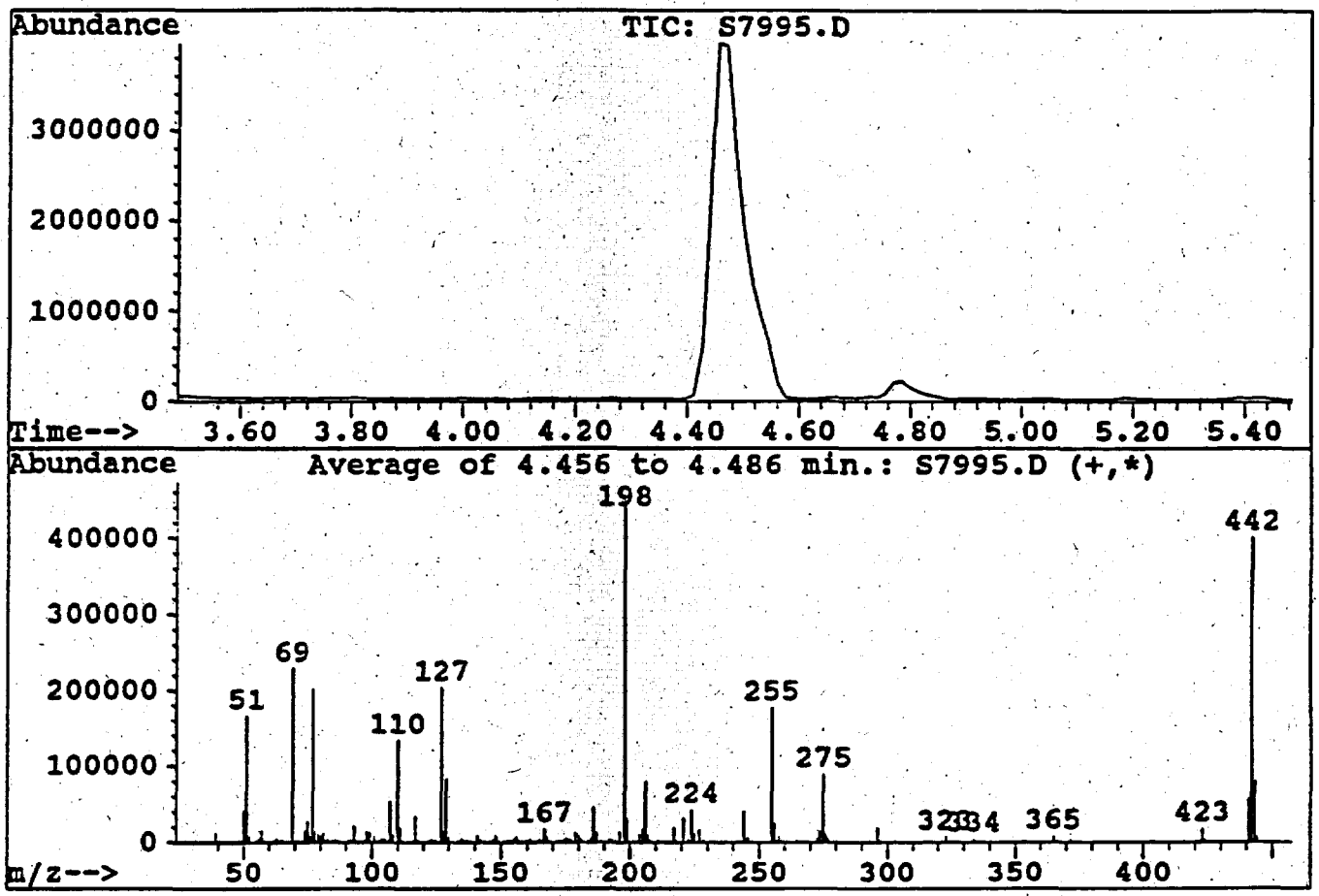
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.0	205670	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	55.8	286916	PASS
70	69	0	2	0.6	1801	PASS
127	198	40	60	48.7	250750	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	514611	PASS
199	198	5	9	6.8	35136	PASS
275	198	10	30	16.8	86256	PASS
365	198	1	100	1.2	6012	PASS
441	443	0	100	71.1	31816	PASS
442	198	40	100	45.7	234972	PASS
443	442	17	23	19.0	44729	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA\S7995.D
Acq Time : 5 Jun 96 4:00 pm
Sample : 50 NG DFTPP
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration



Peak Apex is scan: 132

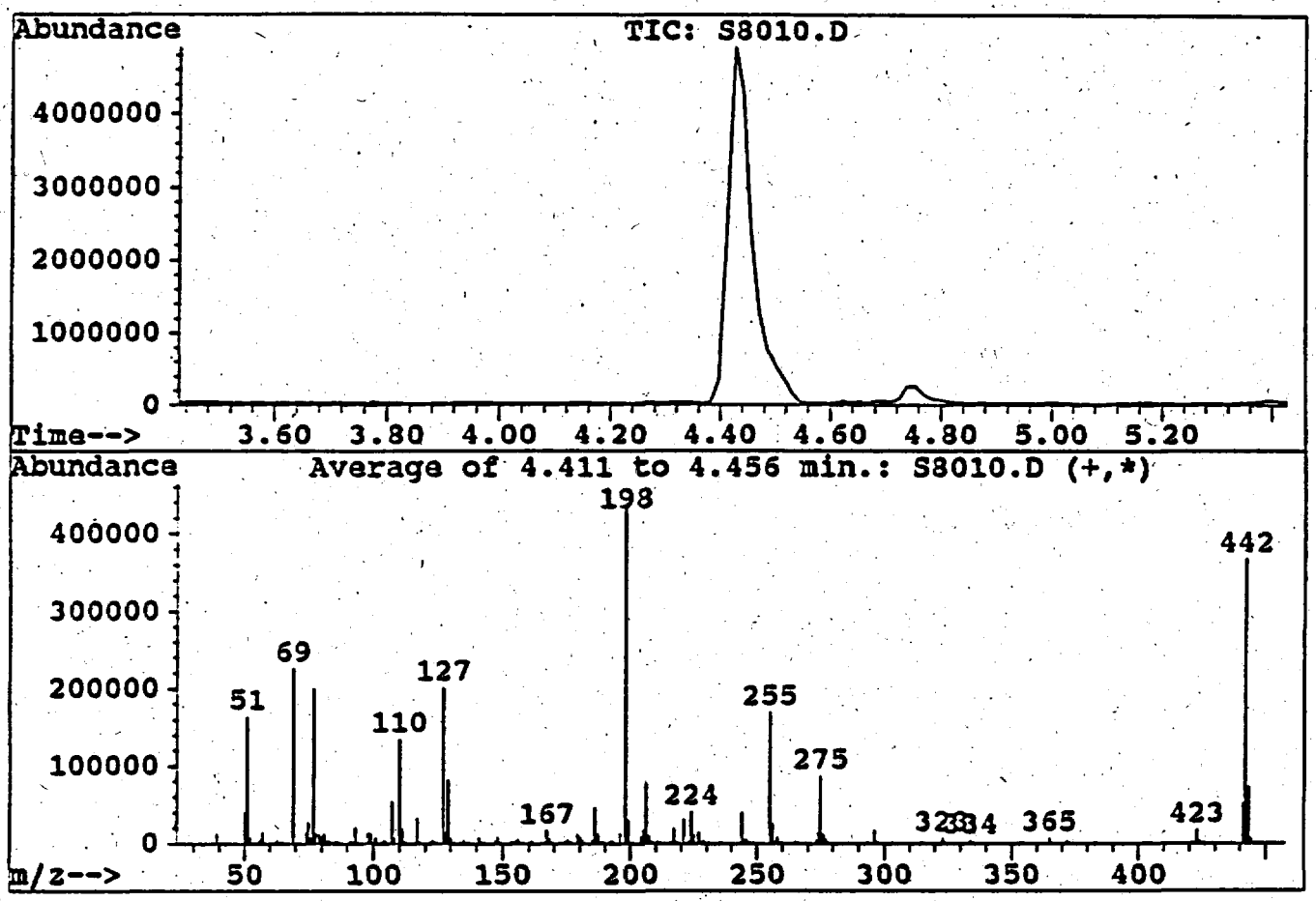
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.9	166712	PASS
68	69	0	2	0.5	1252	PASS
69	198	0	100	50.6	229035	PASS
70	69	0	2	0.6	1426	PASS
127	198	40	60	45.1	203925	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	452203	PASS
199	198	5	9	6.6	29848	PASS
275	198	10	30	19.7	89165	PASS
365	198	1	100	1.7	7775	PASS
441	443	0	100	71.3	56699	PASS
442	198	40	100	88.7	401152	PASS
443	442	17	23	19.8	79549	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA\S8010.D
Acq Time : 6 Jun 96 3:47 am
Sample : 50 ng DFTPP
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration



Peak Apex is scan: 128

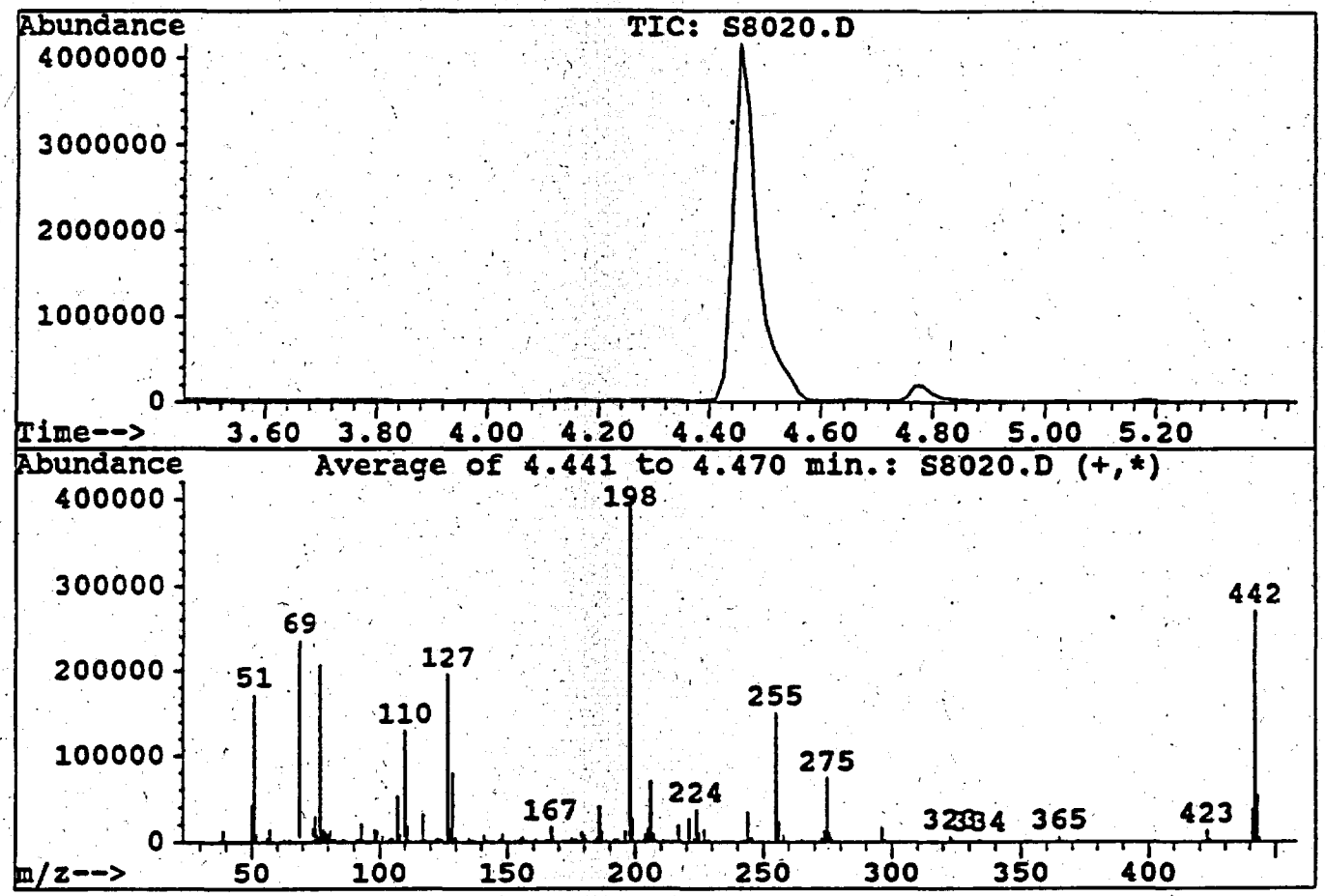
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.1	164158	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	51.2	226312	PASS
70	69	0	2	0.6	1386	PASS
127	198	40	60	45.6	201640	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	442288	PASS
199	198	5	9	6.8	30204	PASS
275	198	10	30	19.7	87076	PASS
365	198	1	100	1.6	6982	PASS
441	443	0	100	72.3	52107	PASS
442	198	40	100	83.1	367540	PASS
443	442	17	23	19.6	72029	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA\S8020.D
Acq Time : 7 Jun 96 5:19 pm
Sample : 50 NG DFTPP
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LBNAICC2.M
Title : CLP BNA Calibration



Peak Apex is scan: 130

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.2	172928	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	59.2	237205	PASS
70	69	0	2	0.3	827	PASS
127	198	40	60	49.1	196736	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	400448	PASS
199	198	5	9	6.7	26633	PASS
275	198	10	30	18.5	73915	PASS
365	198	1	100	1.4	5736	PASS
441	443	0	100	71.4	37794	PASS
442	198	40	100	67.8	271381	PASS
443	442	17	23	19.5	52957	PASS

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SBLK01

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: SBLK01

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S7998.D

Level: (low/med) _____ Date Received: _____

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLK01

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S7998.D

Level: (low/med) Date Received:

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK01

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLK01

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: S7998.D

Level: (low/med) Date Received:

% Moisture: 100 decanted: (Y/N) N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

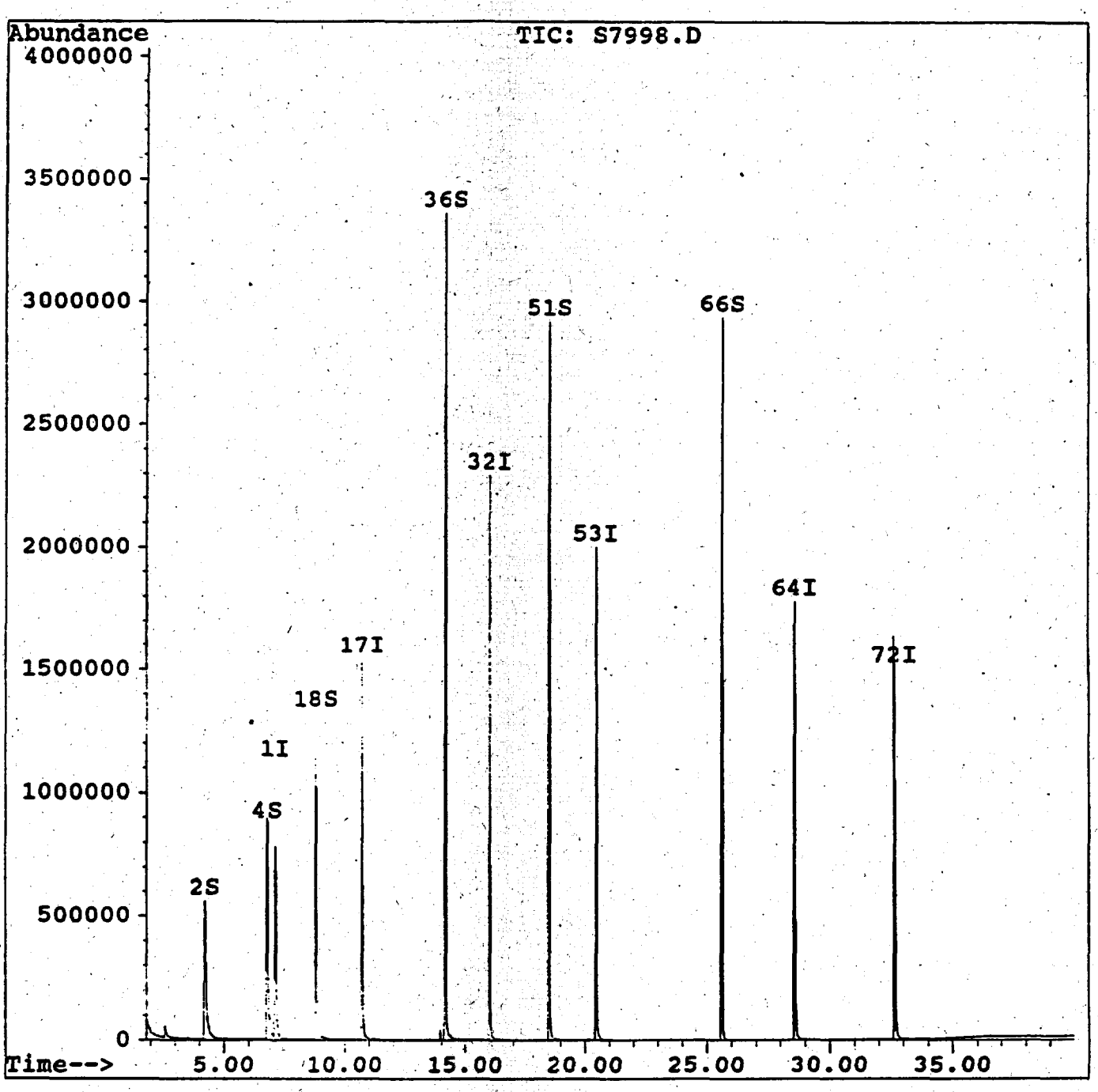
CAS Number	Compound Name	RT	Est. Conc	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7998.D
Acq Time : 5 Jun 96 5:59 pm
Sample : BLANK-QB60
Misc :
Quant Time: Jun 10 12:56 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration



AR320766

000186

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S7998.D
Acq Time : 5 Jun 96 5:59 pm
Sample : BLANK-QB60
Misc :
Quant Time: Jun 10 12:56 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Mon Jun 10 12:39:59 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	492463	20.00	ng/uL	-0.02
17) Naphthalene-d8	10.70	136	1985794	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1255333	20.00	ng/uL	-0.02
53) Phenanthrene-d10	20.46	188	1748524	20.00	ng/uL	0.00
64) Chrysene-d12	28.60	240	1671120	20.00	ng/uL	-0.03
72) Perylene-d12	32.66	264	1628258	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	1061322	31.85	ng/uL	
4) Phenol-d5	6.75	99	1560845	32.56	ng/uL	
18) Nitrobenzene-d5	8.78	82	1294299	29.30	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2703877	31.60	ng/uL	
51) 2,4,6-Tribromophenol	18.52	330	1107805	85.07	ng/uL	
66) Terphenyl-d14	25.62	244	2567296	24.64	ng/uL	
Target Compounds						Qva

AR320767

001187

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\S7998.D
Acq Time : 5 Jun 96 5:59 pm
Sample : BLANK-QB60
Misc :

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Library : NBS54K.L

No Library Search Compounds Detected

AR320768

000188

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09MS

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5967MS

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8001.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	52	
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	54	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	40	
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	40	
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	56	
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	37	
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	37	

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09MS

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5967MS

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8001.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	39	
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	52	
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	45	
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	33	
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

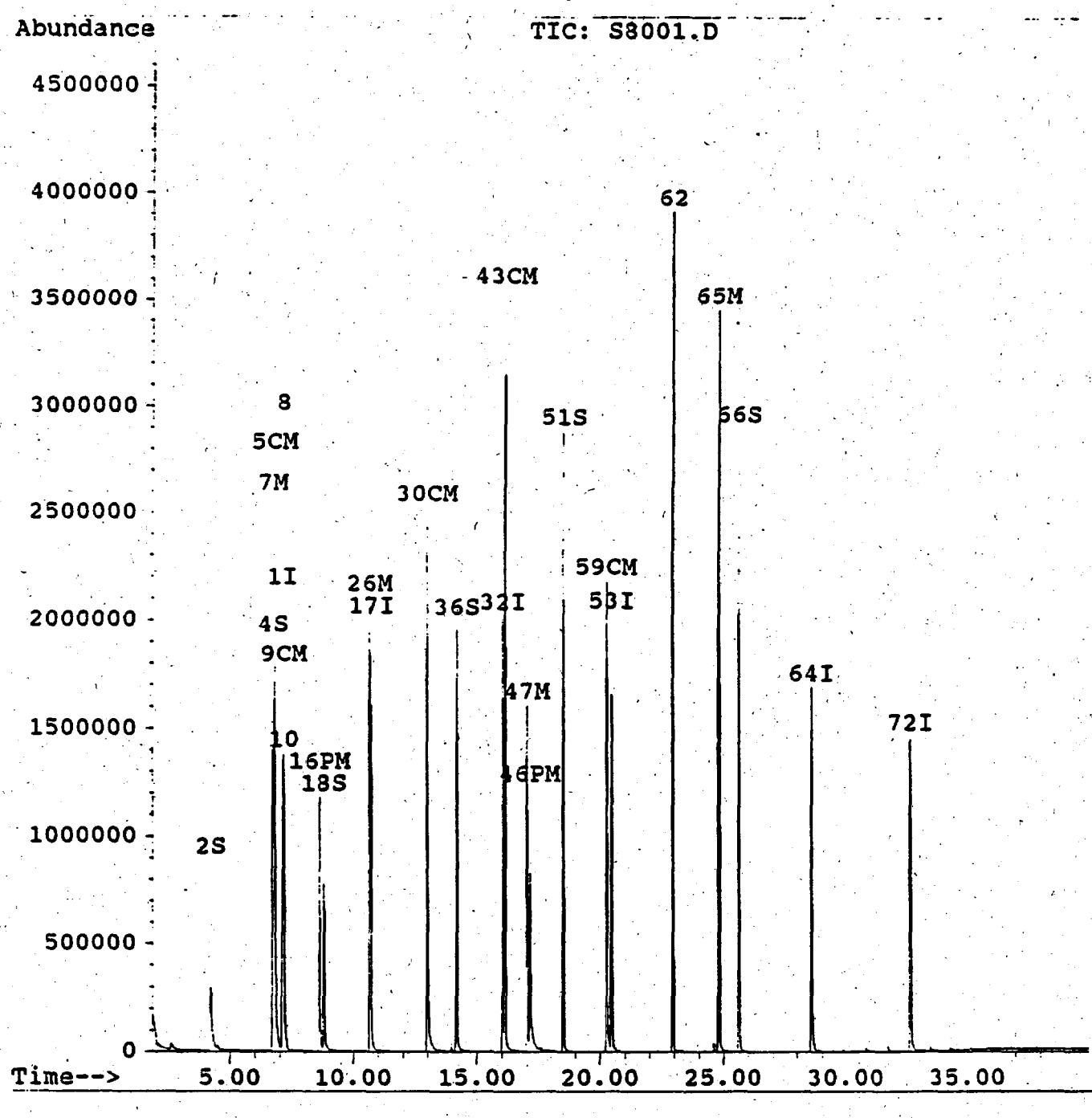
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8001.D
Acq Time : 5 Jun 96 8:29 pm
Sample : 5967-MS-QB60
Misc :
Quant Time: Jun 12 15:38 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 12 15:37:52 1996
Response via : Single Level Calibration



AR320771

000191

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8001.D
Acq Time : 5 Jun 96 8:29 pm
Sample : 5967-MS-QB60
Misc :
Quant Time: Jun 12 15:38 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 12 15:37:52 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	424330	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1721726	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1168427	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.47	188	1512603	20.00	ng/uL	0.00
64) Chrysene-d12	28.59	240	1545804	20.00	ng/uL	-0.03
72) Perylene-d12	32.66	264	1523617	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	689191	24.00	ng/uL	
4) Phenol-d5	6.74	99	1039925	25.18	ng/uL	
18) Nitrobenzene-d5	8.78	82	789987	20.63	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	1833215	23.02	ng/uL	
51) 2,4,6-Tribromophenol	18.52	330	964736	79.59	ng/uL	
66) Terphenyl-d14	25.62	244	2187781	22.70	ng/uL	
Target Compounds						Qvalue
5) Phenol	6.77	94	1966526	47.25	ng/uL	97
7) 2-Chlorophenol	6.69	128	1563035	51.55	ng/uL	98
8) 1,3-Dichlorobenzene	7.14	146	1234887	36.54	ng/uL	96
9) 1,4-Dichlorobenzene	7.14	146	1234887	35.43	ng/uL	98
10) 1,2-Dichlorobenzene	7.14	146	1234887	37.03	ng/uL	99
16) N-Nitroso-di-n-propylamine	8.60	70	819677	35.57	ng/uL	96
26) 1,2,4-Trichlorobenzene	10.64	180	1191074	39.17	ng/uL	99
30) 4-Chloro-3-methylphenol	12.97	107	1558366	52.25	ng/uL	92
43) Acenaphthene	16.13	153	2104948	36.06	ng/uL	99
46) 4-Nitrophenol	17.14	109	271347	42.26	ng/uL	92
47) 2,4-Dinitrotoluene	17.02	165	952853	33.09	ng/uL	91
59) Pentachlorophenol	20.26	266	749755	56.76	ng/uL	99
62) Di-n-butylphthalate	22.95	149	5916090	37.49	ng/uL	99
65) Pyrene	24.80	202	3912379	32.27	ng/uL	99

AR320772

000192

(#) = qualifier out of range (m) = manual integration

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09MSD

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5968SD

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8002.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	54	
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	57	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	40	
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	43	
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	55	
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	38	
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	38	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RW-09MSD

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: O5968SD

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8002.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/5/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	40	
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	56	
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	45	
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	33	
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

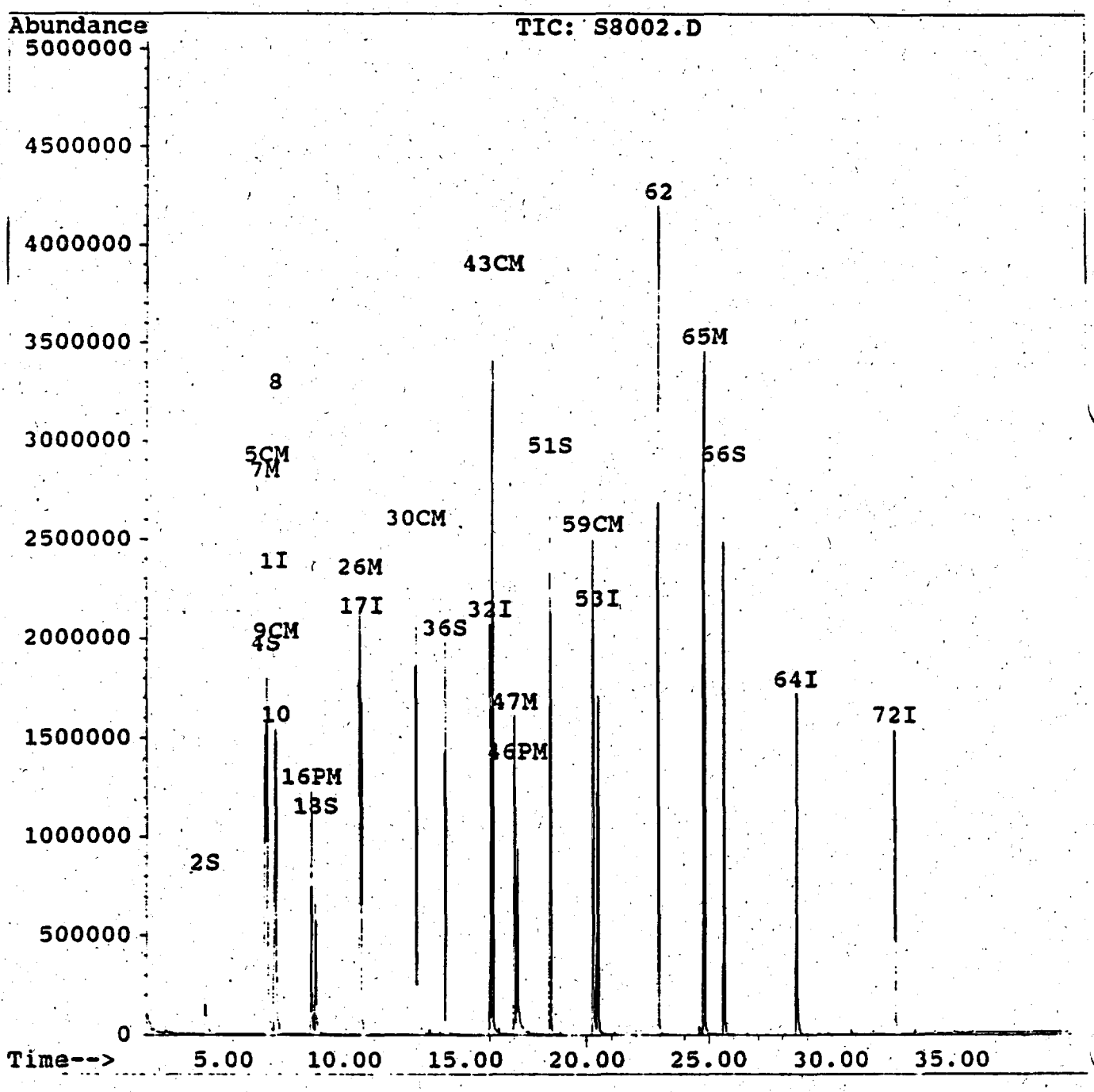
(1) - Cannot be separated from Diphenylamine

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8002.D
Acq Time : 5 Jun 96 9:19 pm
Sample : 5968-MSD-QB60
Misc :
Quant Time: Jun 12 15:39 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 12 15:37:52 1996
Response via : Single Level Calibration



AR320775

00195

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8002.D
Acq Time : 5 Jun 96 9:19 pm
Sample : 5968-MSD-QB60
Misc :
Quant Time: Jun 12 15:39 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Wed Jun 12 15:37:52 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	449890	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.70	136	1792619	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1199195	20.00	ng/uL	-0.01
53) Phenanthrene-d10	20.47	188	1594678	20.00	ng/uL	0.00
64) Chrysene-d12	28.59	240	1616315	20.00	ng/uL	-0.03
72) Perylene-d12	32.66	264	1619440	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	386433	12.69	ng/uL	
4) Phenol-d5	6.74	99	754443	17.23	ng/uL	
18) Nitrobenzene-d5	8.78	82	652950	16.38	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	1815363	22.21	ng/uL	
51) 2,4,6-Tribromophenol	18.52	330	992511	79.78	ng/uL	
66) Terphenyl-d14	25.63	244	2242509	22.25	ng/uL	
Target Compounds						Qvalue
5) Phenol	6.77	94	2155030	48.84	ng/uL	97
7) 2-Chlorophenol	6.69	128	1729533	53.80	ng/uL	97
8) 1,3-Dichlorobenzene	7.14	146	1382729	38.59	ng/uL	96
9) 1,4-Dichlorobenzene	7.14	146	1382729	37.42	ng/uL	98
10) 1,2-Dichlorobenzene	7.14	146	1382729	39.11	ng/uL	99
16) N-Nitroso-di-n-propylamine	8.60	70	861009	35.24	ng/uL	95
26) 1,2,4-Trichlorobenzene	10.64	180	1324255	41.83	ng/uL	100
30) 4-Chloro-3-methylphenol	12.97	107	1580890	50.91	ng/uL	92
43) Acenaphthene	16.13	153	2192373	36.59	ng/uL	100
46) 4-Nitrophenol	17.14	109	290970	44.16	ng/uL	98
47) 2,4-Dinitrotoluene	17.02	165	1021787	34.57	ng/uL	93
59) Pentachlorophenol	20.26	266	842800	60.52	ng/uL	99
62) Di-n-butylphthalate	22.95	149	6298864	37.87	ng/uL	99
65) Pyrene	24.82	202	4073978	32.14	ng/uL	96

AR320776

000196

(#) = qualifier out of range (m) = manual integration

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: LCS

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: S8024.D

Level: (low/med) Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	26	
111-44-4	bis(2-Chloroethyl)ether	19	
95-57-8	2-Chlorophenol	26	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	14	
67-72-1	Hexachloroethane	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	14	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	17	
65-85-0	Benzoic Acid	20	U
91-20-3	Naphthalene	17	
106-47-8	4-Chloroaniline	9.4	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	27	
95-95-4	2,4,5-Trichlorophenol	25	
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U

IC

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

LCS

Lab Name: CHEMTECH Contract: ROY F. WESTON

Lab Code: 1821CLP Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: LCS

Sample wt.vol: 1000.0 (g/mL ML Lab File ID: S8024.D

Level: (low/med) _____ Date Received: 6/1/96

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/4/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/7/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	18	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine	12	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	19	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo[a]anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	17	
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

(1) - Cannot be separated from Diphenylamine

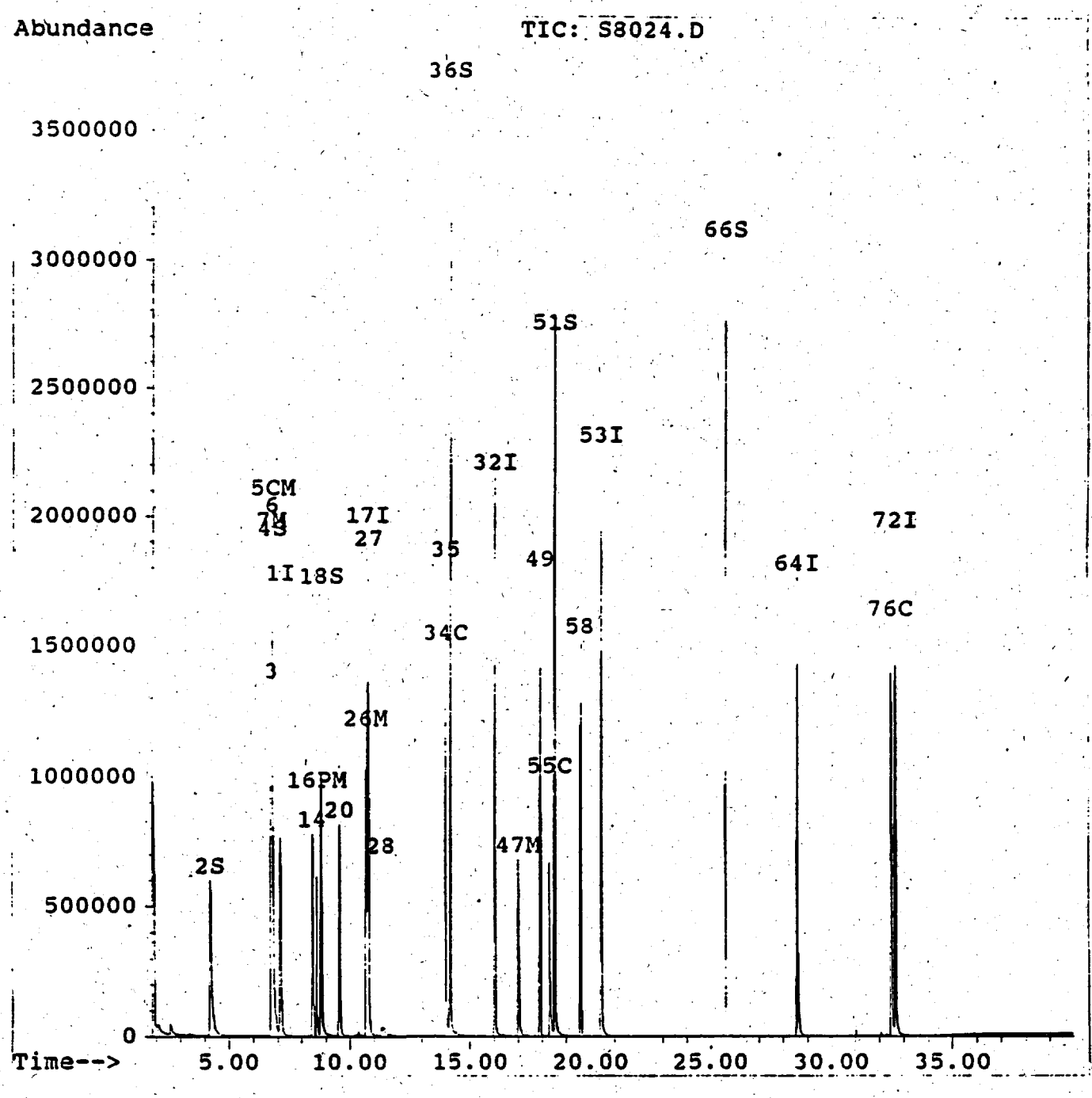
00:198

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8024.D
Acq Time : 7 Jun 96 8:15 pm
Sample : LCS
Misc :
Quant Time: Jun 14 10:45 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 17:07:45 1996
Response via : Single Level Calibration



AR320779

00199

Quantitation Report

Data File : C:\HPCHEM\1\DATA\S8024.D
Acq Time : 7 Jun 96 8:15 pm
Sample : LCS
Misc :
Quant Time: Jun 14 10:45 1996

Operator:
Inst : BNA-GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ABNAICC2.M
Title : CLP BNA Calibration
Last Update : Thu Jun 13 17:07:45 1996
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	480005	20.00	ng/uL	-0.01
17) Naphthalene-d8	10.71	136	1842077	20.00	ng/uL	-0.02
32) Acenaphthene-d10	16.03	164	1230474	20.00	ng/uL	0.00
53) Phenanthrene-d10	20.46	188	1823107	20.00	ng/uL	-0.01
64) Chrysene-d12	28.59	240	1685925	20.00	ng/uL	-0.03
72) Perylene-d12	32.66	264	1547327	20.00	ng/uL	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.21	112	1136892	33.87	ng/uL	
4) Phenol-d5	6.75	99	1510886	30.75	ng/uL	
18) Nitrobenzene-d5	8.78	82	1222766	29.41	ng/uL	
36) 2-Fluorobiphenyl	14.18	172	2528360	30.10	ng/uL	
51) 2,4,6-Tribromophenol	18.53	330	1042027	85.93	ng/uL	
66) Terphenyl-d14	25.63	244	2592856	24.68	ng/uL	
Target Compounds						Qvalue
3) Aniline	6.71	93	815466	18.68	ng/uL	94
5) Phenol	6.77	94	1281125	26.35	ng/uL	98
6) bis(2-Chloroethyl)ether	6.71	93	815466	18.68	ng/uL	95
7) 2-Chlorophenol	6.69	128	920301	26.02	ng/uL	99
14) Hexachloroethane	8.43	117	241906	12.72	ng/uLm	93
16) N-Nitroso-di-n-propylamine	8.60	70	377401	13.72	ng/uL	98
20) Isophorone	9.55	82	1151562	14.14	ng/uL	99
26) 1,2,4-Trichlorobenzene	10.65	180	586057	17.36	ng/uLm	99
27) Naphthalene	10.76	128	1608922	16.82	ng/uL	99
28) 4-Chloroaniline	11.28	127	218144	9.38	ng/uLm	95
34) 2,4,6-Trichlorophenol	13.97	196	589826	27.15	ng/uL	99
35) 2,4,5-Trichlorophenol	13.97	196	589826	24.69	ng/uL	93
47) 2,4-Dinitrotoluene	17.01	165	443023	14.42	ng/uL	86
49) Diethylphthalate	17.92	149	1493172	18.31	ng/uL	99
55) N-Nitrosodiphenylamine	18.31	169	575713	11.68	ng/uL	99
58) Hexachlorobenzene	19.58	284	529622	19.33	ng/uL	97
76) Benzo[a]pyrene	32.49	252	1537207	16.51	ng/uL	94

AR320780

00:200

(#) = qualifier out of range (m) = manual integration

E.

MISCELLANEOUS DATA

CHEMTECH

Extraction Logpage For: Semi-Volatile

BNA Water Low level LiQ-LiQ CLP

Batch #: 980060

Sq. #	Sample #	Prep. Qt	Wt./Vol. (g./mL)	Date	pH	Final Vol.(mL)	Ver. Sur.	Ver. Spk.	Comment
1	5966	1821	1000	06/06					
2	5969								
3	5970								
4	5971								
5	5972								
6	5973								
7	5974								
8	5975								
9	5976								
10	5977								
11	5978								
12	5979								
13									
14									
15									
16									
17									
18									
19									
20									
MS	5967	1821	500	06/06					
MSD	5968	"	"						

* BLK, BLK SPIKE Extracted per day of Extraction Batch

Logbook Page No.: 000060

CHEMTECH

Extraction Logpage For: Semi-Volatile

Matrix: Water Method #: 8270/3510A Batch #: 980060

Cleanup Method: — By: — Liq-Liq CLP Date: 06/06/96

Setup by: CT Date: 06/04/96

Concentration by: CT Date: 06/05/96

QC	mL. Spike	Std. Ref. #: From logbook
Blank Spike		X-00
Matrix Spike		
Matrix Spike Duplicate		
Surrogate		X-00

Solvent/Chemical Used	Lot #:	Co
Dichlro Methane	36045	Anachemia
Acetone		
Hexane		
Sodium Sulfite	35207536	Fm Science
Ether		

Daily QC

Sq. #	Sample #	Prep. Qt	Wt./Vol. (g./mL)	Date	pH	Final Vol.(mL)	Ver. Sur.	Ver. Spk.	Balance Check
1	BLK1	1821	1000	06/06					
2	BLK SPK1	"	"	"					
3	BLK2								
4	BLK SPK2								
5	BLK3								
6	BLKSPK3								

Logbook Page No.: 000060

Daily Analysis Runlog For GC/MS #: BNA 2

CHEMTECH
CONSULTING GROUP, INC.

Start Date: 6/7/96 End Date: 6/8/96 Analyst QM Review By: _____

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	S0027	QC Check Std.	
CCC 25	B035137	Initial Calibration Stds.	
Internal Stds.	S0032		

SR. #:	Sample ID	Batch #:	Data File Name	Dil. Fact.	Method #:	Comment
1	50 NG DFTPP		S8020			OK
2	20 PPM BNA CC		S8021			OK
3	80 " " "		S8022			OK
4	Blank		S8023			OK
5	LCS		S8024			OK
6	5869	QB60	S8025			OK
7	5878	QB60	S8026			OK
8	75 PPM BNA CC		S8027			OK
9	5803-1/5D		S8028			OK
10	5804-1/20D		S8029			OK
11						
12						
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Logbook Page: 000079

Daily Analysis Runlog For GC/MS #: BNA 2

CHEMTECH
CONSULTING GROUP, INC.

Start Date: 6/6/96 End Date: 6/7/96 Analyst CM Review By: _____

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	S 6027	QC Check Std.	
CCC 25	B00788 35 38	Initial Calibration Stds.	
Internal Stds.	Sw032		

SR. #:	Sample ID	Batch #:	Data File Name	Dil. Fact.	Method #:	Comment
1	50 NB DFTPP		S 8010			OK
2	20 PPM BNA CCC		S 8011			OK
3	80 " " "		S 8012			OK
4	5976	QB760	S 8013			OK
5	5977	QB660	S 8014			OK
6	5979	QB660	S 8016			OK
7	5803	QB554	S 8017			NB GOOD
8	5804	QB554	S 8018			NB GOOD
9	5810	QB554	S 8019			NB GOOD
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Logbook Page: 000078

Daily Analysis Runlog For GC/MS #: BNA 2

CHEMTECH
ULTING GROUP, INC.

Start Date: 6/1/96 End Date: 6/6/96 Analyst CVJ Review By: _____

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	Sw27	QC Check Std.	
CCC 25 (4)	Blank B0135 B [illegible] B0137	Initial Calibration Stds.	
Internal Stds.	Sw32 Sw02		

SR. #:	Sample ID	Batch #:	Data File Name	Dil. Fact.	Method #:	Comment
1	50 NG DFTPP		S7995			OK
2	20 PPM BNA CCC		S7996			OK
3	80 " " "		S7997			OK
4	BLANK	QB360	S7998			OK
5	BLANK SPIKE	QB360	S7999			OK
6	5966	QB60	S8000			OK
7	5967	QB360	S8001			OK
8	5968	QB360	S8002			OK
9	5970	QB360	S8004			OK
10	5971	QB360	S8005			OK
11	5972	QB360	S8006			OK
12	5973	QB360	S8007			OK
13	5974	QB360	S8008			OK
14	5975	QB360	S8009			OK
15						
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Daily Analysis Runlog For GC/MS #: BNA 2

CHEMTECH
CONSULTING GROUP, INC.

Start Date: 6/4/96 End Date: 6/5/96 Analyst SM Review By: _____

STD. NAME	STD REF. #:	STD NAME	STD REF. #:
DFTPP	50027	QC Check Std.	
CCC 25	~~50026~~	Initial Calibration Stds.	BO034, 35, 36, 32, 38, 39, 40
Internal Stds.	50032 ~~50031~~		

SR. #:	Sample ID	Batch #:	Data File Name	Dil. Fact.	Method #:	Comment
1	GPC Blank		S7486			
2	50 NG DFTPP		S7487			OK
3	5 PPM BNA CCC		S7488			OK
4	10 PPM BNA ICC		S7489			OK
5	20 PPM BNA ICC		S7490			OK
6	50 PPM BNA ICC		S7491			OK
7	80 PPM BNA ICC		S7492			OK
8	100 PPM BNA ICC		S7493			OK
9	120 PPM BNA ICC		S7494			OK
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Logbook Page: 000076

001206

AR320786

F.

EPA SHIPPING / RECEIVING DOCUMENTS

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 19107

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
2461	05/96-18

SAMPLERS: (Signature) Colleen Duffy / [redacted]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	SEMI VOA	TAL METALS	CN			REMARKS
RW04	5/31/96	1745		X	[redacted]	3-40ml	X						Preserved w/HCl, TAG # T3-23116-118
RW04	5/31/96	1747		X		2-1L Amber		X					T3-23119-120
RW04	5/31/96	1750		X		1-1L poly			X				Preserved w/HNO3 pH<2, T3-23121
RW04	5/31/96	1750		X		1-1L poly				X			Preserved w/NaOH pH>12, T3-23122

RW04208

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Colleen Duffy	5/31/96 1740	FED EX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		B Morris	6/1/96 0930		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

AR320788

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 1

AR320789

PROJ. NO.	PROJECT NAME
2461	05/96-18

SAMPLERS: (Signature)
Colleen Duffy / [redacted]

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	Semi VOA	TAL Metals	CN			REMARKS
													TAG #
RW400	5/31/96	1452		X	[redacted]	2-1L Amber		X					T3-23256 23256-25
RW400	5/31/96	1455		X		1-1L Poly			X				Preserved w/HNO3 pH<2, T3-23259
RW400	5/31/96	1455		X		1-1L Poly				X			Preserved w/NaOH pH>12, T3-23260
RW29	5/31/96	1550		X		3-40ml	X						Preserved w/HCl, T3-23258, 261-262
RW29	5/31/96	1552		X		2-1L Amber		X					T3-23263-264
RW29	5/31/96	1555		X		1-1L Poly			X				Preserved w/HNO3 pH<2, T3-23265
RW29	5/31/96	1555		X		1-1L Poly				X			Preserved w/NaOH pH>12, T3-23266
RW66	5/31/96	1625		X		3-40ml	X						Preserved w/HCl, T3-23134-136
RW66	5/31/96	1627		X		2-1L Amber		X					T3-23137-138
RW66	5/31/96	1630		X		1-1L Poly			X				Preserved w/HNO3 pH<2, T3-23139
RW66	5/31/96	1630		X		1-1L Poly				X			Preserved w/NaOH pH>12, T3-23141
RW27	5/31/96	1705		X		3-40ml	X						Preserved w/HCl, T3-23142-144
RW27	5/31/96	1707		X		2-1L Amber		X					T3-23145-146
RW27	5/31/96	1710		X		1-1L Poly			X				Preserved w/HNO3 pH<2, T3-23147
RW27	5/31/96	1710		X		1-1L Poly				X			Preserved w/NaOH pH>12, T3-23148

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Colleen Duffy	5/31/96 1340	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		BMORRIS	6/1/96 1030		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Fil...

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania

CHAIN OF CUSTODY RECORD

AR320790

PROJ. NO.	PROJECT NAME
2461	05/96 - 1B

SAMPLERS: (Signature) Colleen Duffy / Jim Weaver

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	SEMI VOA	TAL Metals	CN			REMARKS
													TAGS
RW11	5/31/96	1200		X	[redacted]	1-1L Poly				X			Preserved w/NaOH pH >12, T3-23228
FB	5/31/96	1145		X	FIELD BLANK	3-40ml	X						Preserved w/HCl, T3-23229-231
FB	5/31/96	1147		X	FIELD BLANK	2-1L Amber		X					T3-23232-233
FB	5/31/96	1150		X	FIELD BLANK	1-1L Poly			X				Preserved w/HNO3 pH <2, T3-23234
FB	5/31/96	1150		X	FIELD BLANK	1-1L Poly				X			Preserved w/NaOH pH >12, T3-23235
TB	5/31/96	0615		X	TRIP BLANK	3-40ml	X						Preserved w/HCl T3-23236-238
RW57	5/31/96	1240		X	[redacted]	3-40ml	X						Preserved w/HCl, T3-23239-241
RW57	5/31/96	1242		X	[redacted]	2-1L Amber		X					T3-23245 FD 242-243
RW57	5/31/96	1245		X	[redacted]	1-1L Poly			X				Preserved w/HNO3 pH <2, T3-23244
RW57	5/31/96	1245		X	[redacted]	1-1L Poly				X			Preserved w/NaOH pH >12, T3-23245
RW28	5/31/96	1410		X	[redacted]	3-40ml	X						Preserved w/HCl, T3-23246, 248-249
RW28	5/31/96	1412		X	[redacted]	2-1L Amber		X					FD T3-23247, 250
RW28	5/31/96	1415		X	[redacted]	1-1L Poly			X				Preserved w/HNO3 pH <2, T3-23251
RW28	5/31/96	1415		X	[redacted]	1-1L Poly				X			Preserved w/NaOH pH >12, T3-23252
RW400	5/31/96	1450		X	[redacted]	3-40ml	X						Preserved w/HCl, T3-23253-255

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Colleen Duffy	5/31/96 1940	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		B. Marrow	6/1/96 1030		

CO1210

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 1

AR320791

PROJ. NO.	PROJECT NAME
2461	05/96 - 18

SAMPLERS: (Signature) Colleen Duffy / [redacted]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	Semi-VOA	TAL Metals	CN			REMARKS
													TAG #
RW-09	5/31/96	1020		X	[redacted]	3-40ml	X						PRESERVED w/ HCl, T3-23201-202, 205
RW-09	5/31/96	1022		X		2-1L AMBER		X					T3-23203-204
RW-09	5/31/96	1025		X		1-1L POLY			X				PRESERVED w/ HNO_3 pH<2, T3-23206
RW-09	5/31/96	1025		X		1-1L POLY				X			PRESERVED w/ NaOH pH>12, T3-23207
RW-13	5/31/96	1100		X		3-40ml	X						PRESERVED w/ HCl, T3-23216
RW-13	5/31/96	1102		X		2-1L AMBER		X					PRESERVED w/ HCl, T3-23208-209
RW13	5/31/96	1105		X		1-1L POLY			X				T3-23210-211
RW13	5/31/96	1105		X		1-1L POLY				X			PRESERVED w/ HNO_3 pH<2, T3-23212
RW300	5/31/96	1400		X		3-40ml	X						PRESERVED w/ NaOH pH>12, T3-23213
RW300	5/31/96	1402		X		2-1L AMBER		X					PRESERVED w/ HCl, T3-23214-215, 217
RW300	5/31/96	1405		X		1-1L POLY			X				T3-23219, 221
RW300	5/31/96	1405		X		1-1L POLY				X			PRESERVED w/ HNO_3 pH<2, T3-23220
RW11	5/31/96	1155		X		3-40ml	X						PRESERVED w/ NaOH pH>12, T3-23218
RW11	5/31/96	1157		X		2-1L AMBER		X					PRESERVED w/ HCl, T3-23222-224
RW11	5/31/96	1200		X		1-1L POLY			X				T3-23225-226
													PRESERVED w/ HNO_3 pH<2, T3-23227

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Colleen Duffy	5/31/96 1940	FEX EX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		B-Marrone	1146 1030		

U04211

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY Bm pH Verified by Bm
CLIENT : ROY F. WESTON SAMPLE BATCH NUMBER : 105
PROJECT NAME : 1821CLP CLIENT NO. : 964
SAMPLES DELIVERED : 06/01/96 AT 1030 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 06/03/96 TIME 12:12

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
ANALYSES REQUESTED				
5966	RW-09	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN-				
MATRIX: WW SAMPLER: COLLEEN DUFFY				LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab		COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18		
		TEMP: 4.0 C		
RESULTS PROMISED NO LATER THAN : 06/08/96				
5967	RW-09 MS	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN-				
MATRIX: WW SAMPLER: COLLEEN DUFFY				LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab		COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18		
		TEMP: 4.0 C		
RESULTS PROMISED NO LATER THAN : 06/08/96				
5968	RW-09 MSD	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN-				
MATRIX: WW SAMPLER: COLLEEN DUFFY				LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab		COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18		
		TEMP: 4.0 C		
RESULTS PROMISED NO LATER THAN : 06/08/96				
5969	RW-13	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN-				
MATRIX: WW SAMPLER: COLLEEN DUFFY				LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab		COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18		
		TEMP: 4.0 C		
RESULTS PROMISED NO LATER THAN : 06/08/96				
5970	RW-300	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN-				
MATRIX: WW SAMPLER: COLLEEN DUFFY				LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab		COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18		
		TEMP: 4.0 C		
RESULTS PROMISED NO LATER THAN : 06/08/96				

U011212

7 DAYS Verbal
14 DAYS HARD Copy

AR320792

4Bm

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY BM pH Verified by BM
CLIENT : ROY F. WESTON SAMPLE BATCH NUMBER : 1057
PROJECT NAME : 1821CLP CLIENT NO. : 964
SAMPLES DELIVERED : 06/01/96 AT 1030 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 06/03/96 TIME 12:12

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5971	RW-11	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU

VOA_W ,BNA_W ,TAL ,TCN- ,
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 06/08/96

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5972	RW-57	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU

VOA_W ,BNA_W ,TAL ,TCN- ,
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 06/08/96

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5973	RW-28	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU

VOA_W ,BNA_W ,TAL ,TCN- ,
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 06/08/96

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5974	RW-40S	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU

VOA_W ,BNA_W ,TAL ,TCN- ,
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 06/08/96

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5975	RW-29	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU

VOA_W ,BNA_W ,TAL ,TCN- ,
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 06/08/96

ANALYSES REQUESTED

U01213

4 BM

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY BM pH Verified by BM
CLIENT : ROY F. WESTON SAMPLE BATCH NUMBER : 105
PROJECT NAME : 1821CLP CLIENT NO. : 964
SAMPLES DELIVERED : 06/01/96 AT 1030 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 06/03/96 TIME 12:12

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
ANALYSES REQUESTED				
5976	RW-66	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN- ,				
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461				
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18				
TEMP: 4.0 C				
RESULTS PROMISED NO LATER THAN : 06/08/96				
5977	RW-27	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN- ,				
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461				
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18				
TEMP: 4.0 C				
RESULTS PROMISED NO LATER THAN : 06/08/96				
5978	RW-04	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN- ,				
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461				
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18				
TEMP: 4.0 C				
RESULTS PROMISED NO LATER THAN : 06/08/96				
5979	FB	05/31/96		8GCU,8GCU,8GCU,3GCU,3GCU,3PNU,3PBU
VOA_W ,BNA_W ,TAL ,TCN- ,				
MATRIX: WW SAMPLER: COLLEEN DUFFY LOCATION: PRJ#: 2461				
TYPE SAMPLE: Grab COMMENT: PROJECT#: 2461 PROJECT NAME: 05/96-18				
TEMP: 4.0 C				
RESULTS PROMISED NO LATER THAN : 06/08/96				
5980	TB	05/31/96		8GCU,8GCU,8GCU
VOA_W ,				
MATRIX: WW SAMPLER: LOCATION: PRJ#: 2461				
TYPE SAMPLE: Grab COMMENT:				
RESULTS PROMISED NO LATER THAN : 06/08/96				

UN1,211

AR320794

4BM

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY BM pH Verified by BM
CLIENT : ROY F. WESTON SAMPLE BATCH NUMBER : 1057
PROJECT NAME : 1821CLP CLIENT NO. : 964
SAMPLES DELIVERED : 06/01/96 AT 1030 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 06/03/96 TIME 12:12

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
5981	LCSW	05/31/96	2GCU	

ANALYSES REQUESTED

TAL

MATRIX: WW SAMPLER: LOCATION: PRJ#: 2461

TYPE SAMPLE: Grab COMMENT:

RESULTS PROMISED NO LATER THAN : 06/08/96

401215

AR320795

BM