375050

STL Envirotech
a division of Severn Trent Laboratories, Inc.

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
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June 7, 2000

PMK Group
629 Springfield Road
Kenilworth, NJ 07033

Attention: Mr. Bill Call

Re: Job No. Z784 - Schaeffer Salts

Dear Mr. Call:

Enclosed are the results you requested for the following sample(s) received at our laboratory on May 01, 2000:

Lab No.	Client ID	Analysis Required
201478	SW-1	Priority Pollutants +40, Chloride

If you have any questions please contact your Project Manager, Brian Reddy, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

Envirotech
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TABLE OF CONTENTS

	Section	Page
Analytical Results Summary	1	1
General Information	2	
Chain of Custody		10
Laboratory Chronicles		11
Methodology Review		16
Data Reporting Qualifiers		19
Non-Conformance Summary		20
GC/MS Forms and Data (Volatiles)	3	
Results Summary and Chromatograms		22
Tuning Results Summary		26
Method Blank Results Summary		34
Calibration Summary		41
Surrogate Compound Recovery Summary		50
Spike Recovery Summary		51
Internal Standard Area Summary		53
GC/MS Forms and Data (Semivolatiles)	4	
Results Summary and Chromatograms		54
Tuning Results Summary		62
Method Blank Results Summary		78
Calibration Summary		86
Surrogate Compound Recovery Summary		101
Spike Recovery Summary		102
Internal Standard Area Summary		104

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TABLE OF CONTENTS

	Section	Page
GC Forms and Data	5	
Method 608 (Pesticides/PCBs)		
Results Summary		108
QA Summary		109
Analtical Sequence		115
Raw Data		116
Metals Forms and Data	6	
Analytical Results Summary		184
Blank Results Summary		185
Calibration Summary		187
ICP Interference Check Results Summary		190
Spike Sample Recovery Summary		191
Sample and MS Duplicate Results Summary		194
Laboratory Control Sample Results Summary		196
Serial Dilution Summary		197
Analysis Run Log		198
General Chemistry Forms	7	
Analytical Results Summary		203
QA Results Summary		204

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15859.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.7
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15859.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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.			

TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Phenol	ND	1.4
2-Chlorophenol	ND	2.7
2-Nitrophenol	ND	2.4
2,4-Dimethylphenol	ND	1.8
2,4-Dichlorophenol	ND	1.8
4-Chloro-3-methylphenol	ND	2.7
2,4,6-Trichlorophenol	ND	0.9
2,4-Dinitrophenol	ND	1.6
4-Nitrophenol	ND	1.4
4,6-Dinitro-2-methylphenol	ND	1.8
Pentachlorophenol	ND	2.4

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.7
bis(2-Chloroethyl)ether	ND	1.6
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8
bis(2-chloroisopropyl)ether	ND	1.5
N-Nitroso-di-n-propylamine	ND	1.2
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.2
Isophorone	ND	1.2
bis(2-Chloroethoxy)methane	ND	1.3
1,2,4-Trichlorobenzene	ND	0.8
Naphthalene	ND	1.1
Hexachlorobutadiene	ND	0.8
Hexachlorocyclopentadiene	ND	1.3
2-Chloronaphthalene	ND	1.1
Dimethylphthalate	ND	0.7
Acenaphthylene	ND	0.7
2,6-Dinitrotoluene	ND	1.0
Acenaphthene	ND	0.8
2,4-Dinitrotoluene	ND	0.8
Diethylphthalate	ND	0.6
4-Chlorophenyl-phenylether	ND	0.8
Fluorene	ND	1.0
N-Nitrosodiphenylamine	ND	0.8
4-Bromophenyl-phenylether	ND	1.8
Hexachlorobenzene	ND	0.8
Phenanthrene	ND	0.7
Anthracene	ND	0.4
Di-n-butylphthalate	ND	0.7
Fluoranthene	ND	0.7
Pyrene	ND	0.8
Benzidine	ND	19
Butylbenzylphthalate	ND	1.0

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	6.8
Benzo(a)anthracene	ND	0.6
Chrysene	ND	0.9
bis(2-Ethylhexyl)phthalate	ND	2.8
Di-n-octylphthalate	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.9
Benzo(a)pyrene	ND	0.4
Indeno(1,2,3-cd)pyrene	ND	0.7
Dibenz(a,h)anthracene	ND	0.4
Benzo(g,h,i)perylene	ND	0.6

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown	22.12	12	
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.			

TOTAL ESTIMATED CONCENTRATION 12

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample ID: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/02/00
Date Analyzed: 05/04/00
GC Column: DB-608
Instrument ID: PESTGC2.i

Matrix: WATER
Sample Volume: 980 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: yr042450.d

ORGANOCHLORINE PESTICIDES/PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aldrin	ND	0.01
alpha-BHC	ND	0.02
beta-BHC	ND	0.01
delta-BHC	ND	0.01
gamma-BHC (Lindane)	ND	0.02
Chlordane	ND	0.20
4,4'-DDD	ND	0.01
4,4'-DDE	ND	0.01
4,4'-DDT	ND	0.01
Dieldrin	ND	0.01
Endosulfan I	ND	0.01
Endosulfan II	ND	0.01
Endosulfan sulfate	ND	0.01
Endrin	ND	0.01
Endrin aldehyde	ND	0.01
Heptachlor	ND	0.01
Heptachlor epoxide	ND	0.01
Toxaphene	ND	0.40
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.40
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

Client ID: **SW-1**
Site: **Schaeffer Salts**

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	80.5	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	9.5	1.1	P
Copper	11.9	2.7	P
Lead	5.3	2.1	P
Mercury	ND	0.10	CV
Nickel	1.5	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	13.4	5.2	P

M Column - Method Code (See Section 2 of Report)

Site: Schaeffer Salts

Lab Job No: Z784

Date Sampled: 5/1/00
Date Received: 5/1/00
Matrix: WATER

Date Analyzed: 5/2/00
QA Batch: 1432

CHLORIDE

STL-Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
201478	SW-1	100	1550

Quantitation Limit for Chloride is 5.0 mg/l for an undiluted sample.

STL - Envirotech
777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): William P. Call	Samplers Name (Printed): Brad Smyth	Site/Project Identification: Schueffer Salts
Company: PMR group	P.O. #: 0500051	State (Location of site): NJ: ☒ NY: ☐ Other:
		Regulatory Program:
Address: 629 Springfield Road	Analysis Turnaround Time: Standard ☒	
City: Kenilworth State: NJ	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: (908) 686-0044 Fax: (908) 686-0715		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 2784

Sample Identification	Date	Time	Matrix	No. of Cont.	PP+40	Chlorides										Sample Numbers
SW-1	5-1-00	1040	water	7	X	X										201478

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other Ice, 7 = Other _____
Soil:
Water: 2/4/6

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	PMR group	5-1-00, 14:00	1) [signature] 5-1-00 1600	STL EK
2) [signature]	STL EK	5-1-00 1640	2) [signature]	STL-ENVIROTECH HOWARD SCHULZE
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

10

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Envirotech

777 New Durham Road, Edison, New Jersey
08817

Job No: Z784 **Site:** Schaeffer Salts

Client: PMK Group

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
201478	5/1/2000	5/1/2000			5.7.00	BRMR	2255

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Envirotech

777 New Durham Road, Edison, New Jersey
08817

Job No: Z784 **Site:** Schaeffer Salts

Client: PMK Group

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
201478	5/1/2000	5/1/2000	5-3-00	OF	6/5/00	WB	5413

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Envirotech

777 New Durham Road, Edison, New Jersey
08817

Job No: Z784 **Site:** Schaeffer Salts

Client: PMK Group

PESTGC

608

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
201478	5/1/2000	5/01/2000	5/2/00	ATV	5-4-00	RM	6529

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Envirotech

777 New Durham Road, Edison, New Jersey
08817

Job No: Z784 **Site:** Schaeffer Salts

Client: PMK Group **Date Sampled:** 5/1/2000

Sample No.: 201478 **Date Received:** 5/1/2000

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	5/2/00	MP	5/2/00	MP	9551
ANTIMONY	5/2/00	SS	5/4/00	OS	9551
ARSENIC					
LEAD					
SELENIUM					
THALLIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM					
COPPER					
NICKEL					
SILVER					
ZINC					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Envirotech

777 New Durham Road, Edison, New Jersey
08817

Job No: Z784 **Site:** Schaeffer Salts

Client: PMK Group

WET CHEM

CHLORIDE

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
WATER							
201478	5/1/2000	5/01/2000			5/2/00	BS	1432

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

NON-CONFORMANCE SUMMARY

STL Envirotech Job Number: 2784

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:
(MS/BS: QA BATCH 6529): % recovery of Heptachlor is outside of QC limits in the matrix spike, Blank spike + Matrix spike Duplicate. Endrin ketone recovery also exceeds QC limits in MSD

See continuation page if checked ( )

Page 1 of ___

Non-conformance Summary, Page 2 of 2
STL Envirotech Job Number: 2784

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: [signature] Date: 6-14-00

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15859.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.7
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3
Xylene (Total)	ND	0.3

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15859.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15859.d
Report Date: 08-May-2000 11:12

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/05-03-00/07may00.b/v15859.d
Lab Smp Id: 201478 Client Smp ID: SW-1
Inj Date : 07-MAY-2000 18:23
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : 201478
Misc Info : Z784;2255;MR
Comment :
Method : /chem/VOAMS7.i/624/05-03-00/07may00.b/624_00.m
Meth Date : 08-May-2000 08:38 riaz Quant Type: ISTD
Cal Date : 03-MAY-2000 14:00 Cal File: v15675.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.40
Processing Host: hpd2

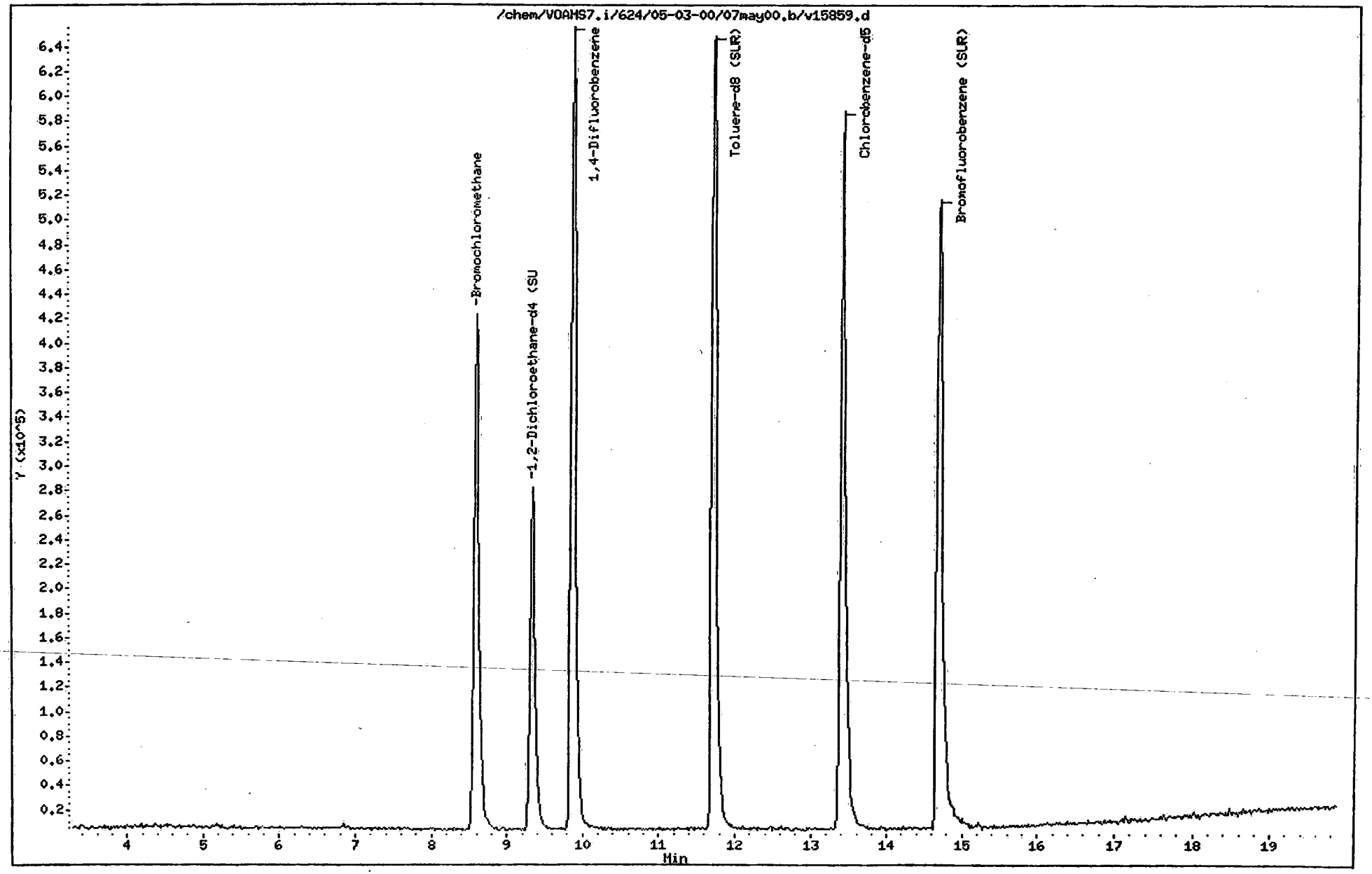
Concentration Formula: Amt * DF * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.585	8.585	(1.000)	303432	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.327	9.327	(0.946)	78175	29.7728	30
* 19 1,4-Difluorobenzene	114	9.861	9.861	(1.000)	1239062	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.701	11.701	(0.873)	993830	28.2895	28
* 32 Chlorobenzene-d5	117	13.408	13.393	(1.000)	930399	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	14.684	14.669	(1.095)	480853	26.9304	27

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15859.d
Date : 07-MAY-2000 18:23
Client ID: SW-1
Sample Info: 201478
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAMS7.i
Operator: VOAMS 6
Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V15669 BFB Injection Date: 05/03/00

Instrument ID: VOAMS7 BFB Injection Time: 1019

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	97.6
175	5.0 - 9.0% of mass 174	7.8 (8.0)1
176	95.0 - 101.0% of mass 174	94.8 (97.2)1
177	5.0 - 9.0% of mass 176	6.1 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	VSTD020	V15671	05/03/00	1151
02	VSTD200	VSTD200	V15672	05/03/00	1239
03	VSTD050	VSTD050	V15673	05/03/00	1306
04	VSTD010	VSTD010	V15674	05/03/00	1333
05	VSTD005	VSTD005	V15675	05/03/00	1400
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07					
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17					
18					
19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAMS7.i/624/05-03-00/03may00.b/v15669.d

Date : 03-MAY-2000 10:19

Client ID: VBFB124 50ng

Instrument: VOAMS7.i

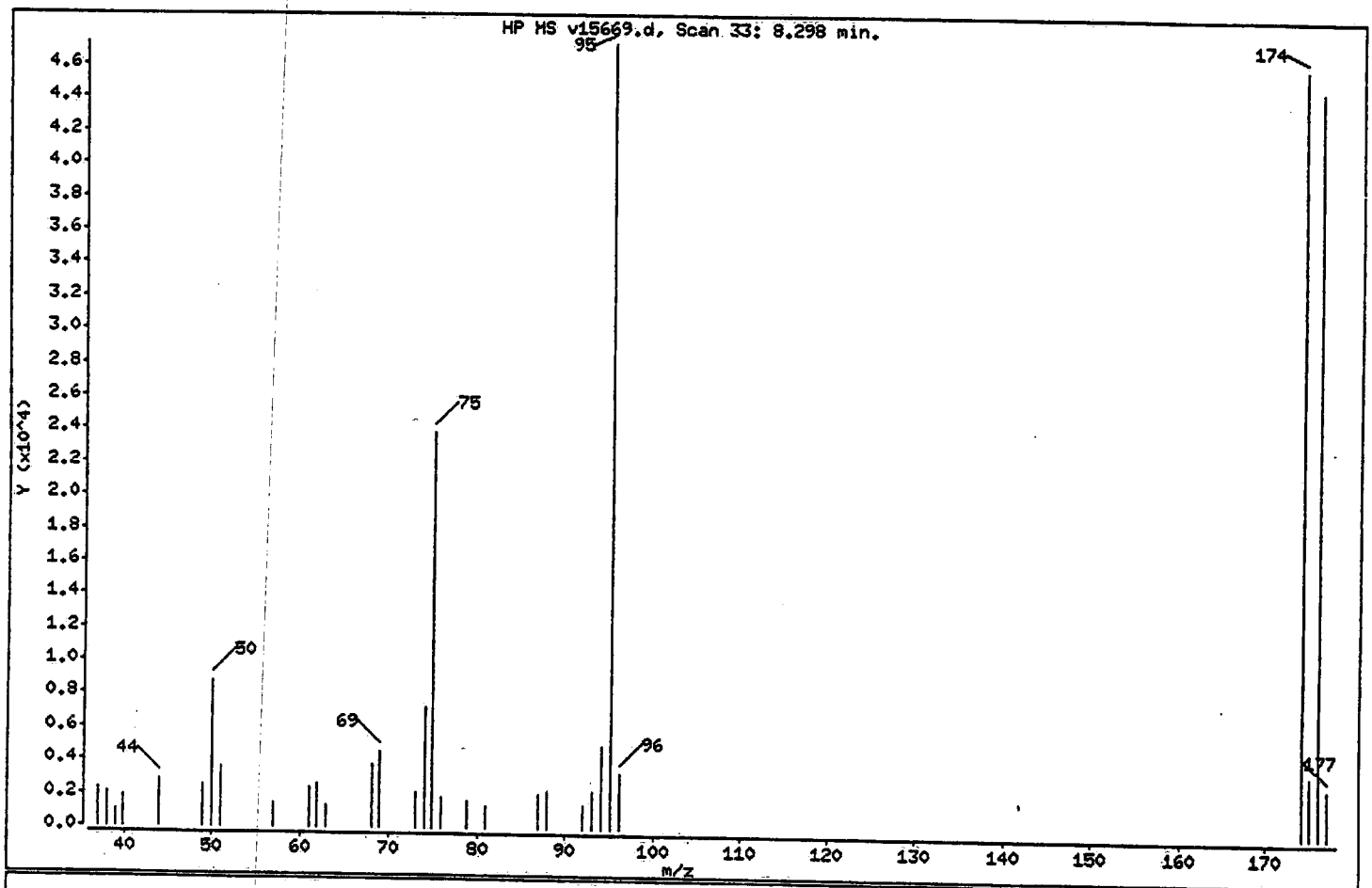
Sample Info: VBFB124 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ICN ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.53
75	30.00 - 60.00% of mass 95	50.34
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	97.57
175	5.00 - 9.00% of mass 174	7.78 (7.98)
176	95.00 - 101.00% of mass 174	94.83 (97.19)
177	5.00 - 9.00% of mass 176	6.13 (6.46)

Data File: /chem/VOAMS7.i/624/05-03-00/03may00.b/v15669.d

Date : 03-MAY-2000 10:19

Client ID: VBFB124 50ng

Sample Info: VBFB124 50ng

Instrument: VOAMS7.i

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

Data File: v15669.d

Spectrum: HP MS v15669.d, Scan 33: 8.298 min.

Location of Maximum: 95.05

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.95	2282	57.05	1421	75.00	23816	94.05	5030
38.05	2092	61.00	2428	76.00	1799	95.05	47312
38.95	1000	62.00	2570	78.90	1597	96.05	3321
39.95	1901	63.00	1352	80.90	1303	174.00	46160
43.95	2849	68.00	3771	86.95	2074	174.95	3682
48.95	2545	69.00	4538	87.95	2311	175.95	44864
50.05	8767	73.10	2188	92.05	1468	176.95	2898
51.05	3605	74.00	7322	92.95	2330		

Data File: /chem/VOAMS7.i/624/05-03-00/03may00.b/v15669.d

Date : 03-MAY-2000 10:19

Client ID: VBFB124 50ng

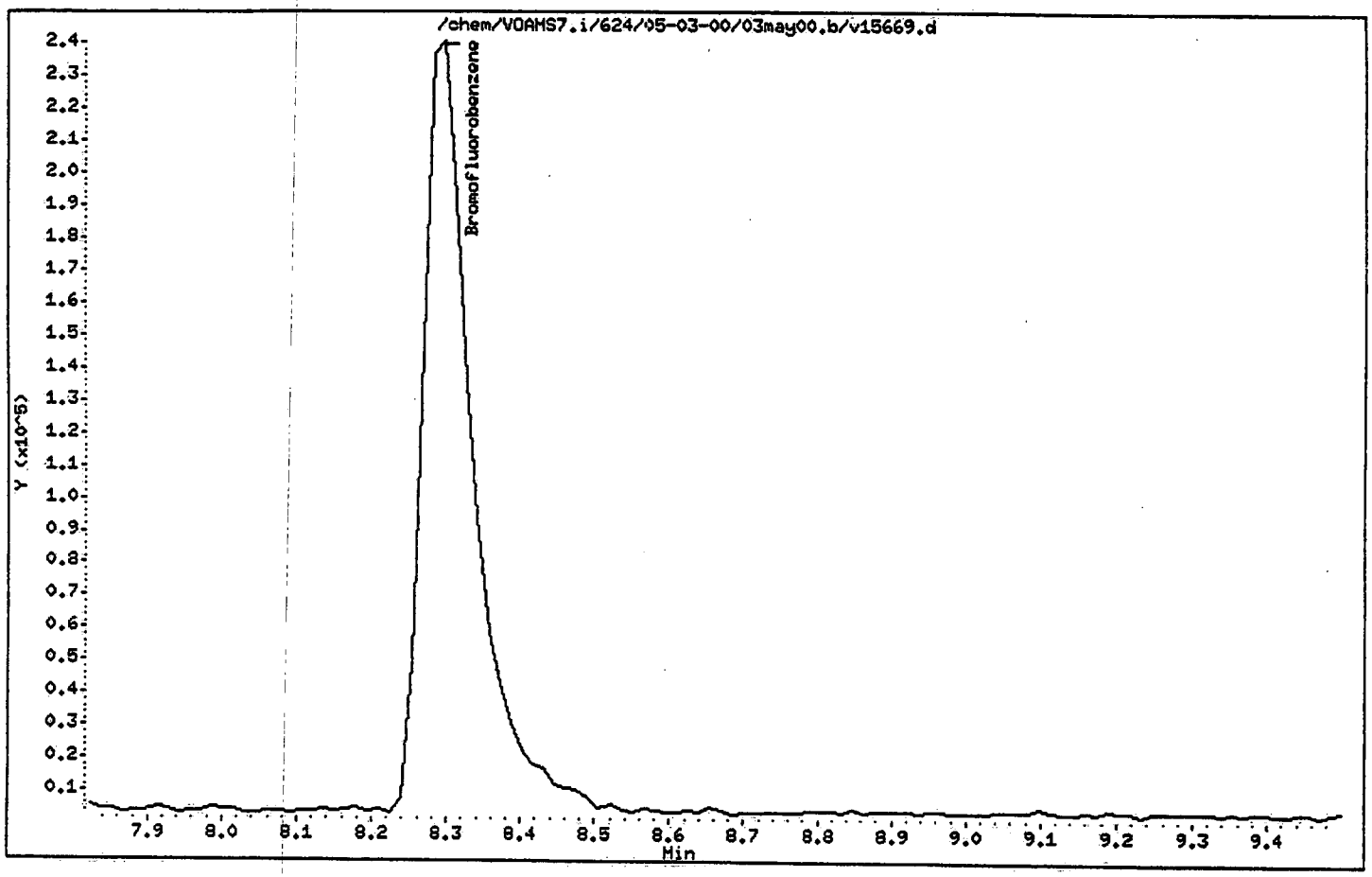
Instrument: VOAMS7.i

Sample Info: VBFB124 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: V15846 BFB Injection Date: 05/07/00

Instrument ID: VOAMS7 BFB Injection Time: 1101

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	93.3
175	5.0 - 9.0% of mass 174	6.8 (7.3)1
176	95.0 - 101.0% of mass 174	92.9 (99.6)1
177	5.0 - 9.0% of mass 176	5.7 (6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD128	VSTD128	V15848	05/07/00	1204
02	VV128A	VV128A	V15851	05/07/00	1429
03	SW-1	201478	V15859	05/07/00	1823
04					
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19					
20					
21					
22					

page 1 of 1

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15846.d

Date : 07-MAY-2000 11:01

Client ID:

Sample Info: VBFB128 50ng

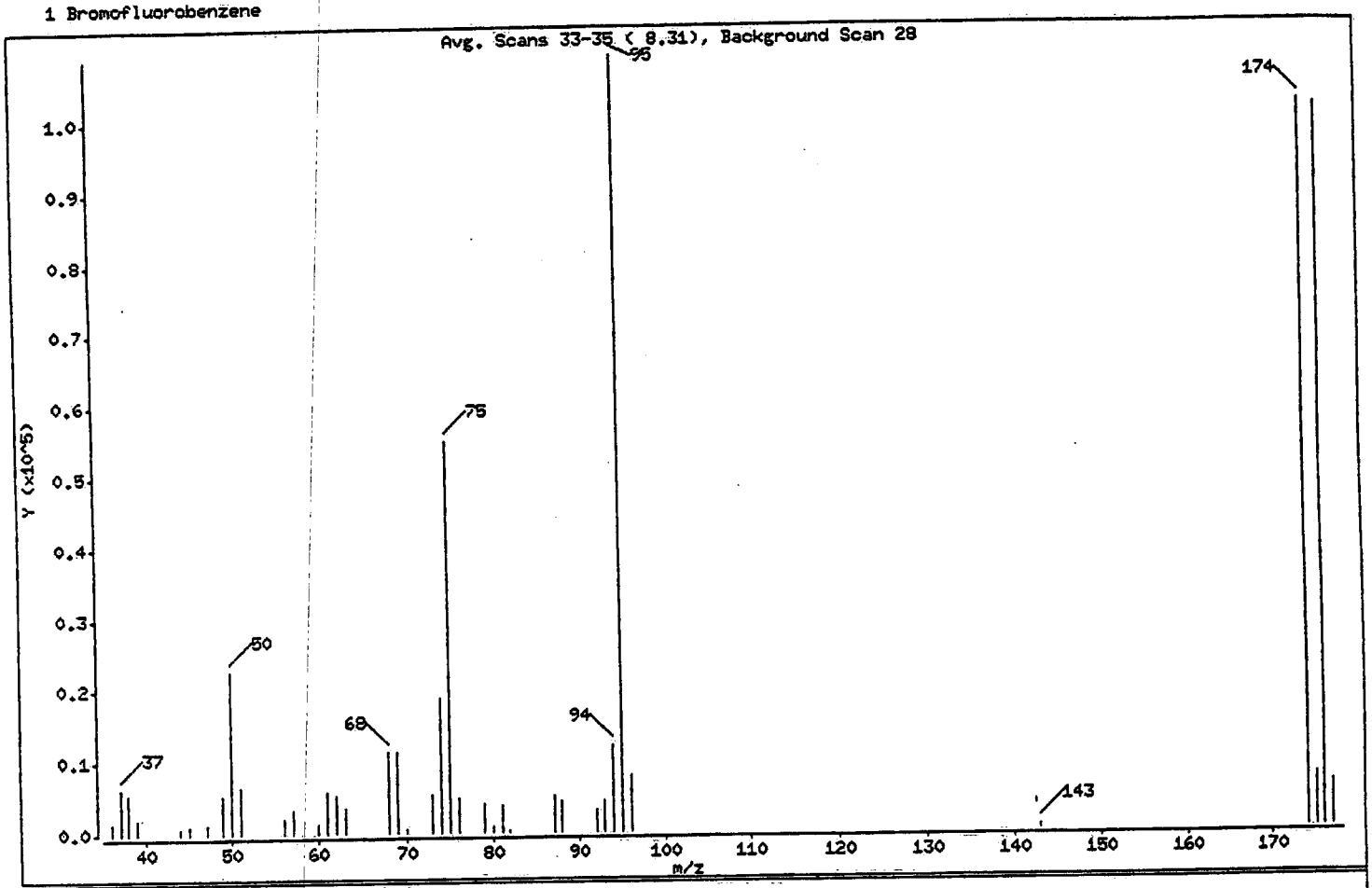
Instrument: VOAMS7.i

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.74
75	30.00 - 60.00% of mass 95	50.57
96	5.00 - 9.00% of mass 95	7.13
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	93.33
175	5.00 - 9.00% of mass 174	6.77 (7.25)
176	95.00 - 101.00% of mass 174	92.94 (99.58)
177	5.00 - 9.00% of mass 176	5.69 (6.13)

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15846.d

Date : 07-MAY-2000 11:01

Client ID:

Instrument: VOAMS7.i

Sample Info: VBFB128 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53

Data File: v15846.d

Spectrum: Avg. Scans 33-35 (8.31), Background Scan 28

Location of Maximum: 95.00

Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1454	56.00	2020	74.00	18824	93.00	4189
37.00	6353	57.00	3272	75.00	55160	94.00	11955
38.00	5607	60.00	1189	76.00	4736	95.00	109072
39.00	2100	61.00	5703	79.00	3928	96.00	7777
44.00	735	62.00	5336	80.00	845	143.00	440
45.00	999	63.00	3566	81.00	3819	174.00	101792
47.00	1291	68.00	11427	82.00	349	175.00	7382
49.00	5219	69.00	11288	87.00	4998	176.00	101368
50.00	22624	70.00	428	88.00	4342	177.00	6210
51.00	6443	73.00	5161	92.00	3038		

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15846.d

Date : 07-MAY-2000 11:01

Client ID:

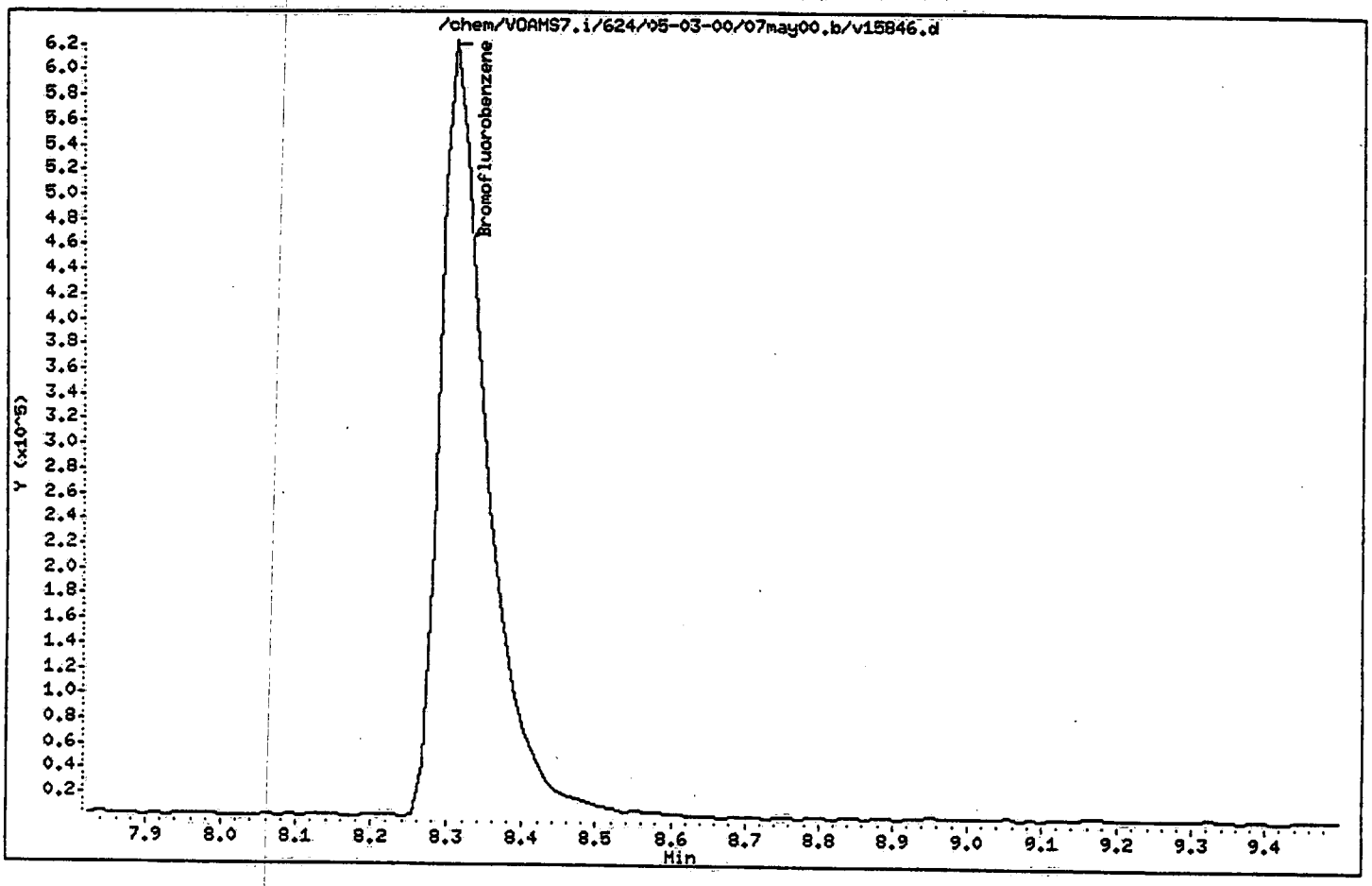
Instrument: VOAMS7.i

Sample Info: VBFB128 50ng

Operator: VOAMS 4

Column phase: DB-624

Column diameter: 0.53



LAB SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VV128A

Matrix: WATER

Date Analyzed: 05/07/00

Level: LOW

Time Analyzed: 1429

Lab File ID: V15851

Heated Purge (Y/N) N

Instrument ID: VOAMS7

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	SW-1	201478	V15859	1823
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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30				

COMMENTS:

page 1 of 1

Client ID: VV128A
Site:

Lab Sample No: VV128A
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15851.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Chloromethane	ND	0.5
Bromomethane	ND	0.3
Vinyl Chloride	ND	0.7
Chloroethane	ND	0.4
Methylene Chloride	ND	0.8
Acetone	ND	1.3
Carbon Disulfide	ND	0.7
Trichlorofluoromethane	ND	0.3
1,1-Dichloroethene	ND	0.4
1,1-Dichloroethane	ND	0.4
trans-1,2-Dichloroethene	ND	0.4
cis-1,2-Dichloroethene	ND	0.4
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	1.1
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.4
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.1
Trichloroethene	ND	0.4
Dibromochloromethane	ND	0.2
1,1,2-Trichloroethane	ND	0.3
Benzene	ND	0.3
trans-1,3-Dichloropropene	ND	0.3
2-Chloroethyl Vinyl Ether	ND	0.5
Bromoform	ND	0.1
4-Methyl-2-Pentanone	ND	0.6
2-Hexanone	ND	0.6
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.3
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.3

Client ID: VV128A
Site:

Lab Sample No: VV128A
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15851.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Styrene	ND	0.2
Xylene (Total)	ND	0.3
Ethyl Ether	ND	0.5
Acrolein	ND	9.1
Freon TF	ND	0.3
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	17
Acrylonitrile	ND	11
MTBE	ND	0.2
Hexane	ND	1.0
DIPE	ND	0.2
Ethyl Acetate	ND	0.8
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	0.3
Isobutanol	ND	500
Isopropyl Acetate	ND	0.9
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	0.9
Butyl Acetate	ND	1.0
1,2-Dibromoethane	ND	0.1
1,3-Dichlorobenzene	ND	0.3
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.3
Naphthalene	ND	0.7
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.2
1,4-Dioxane	ND	380
n-Pentane	ND	0.7
5-Methyl-2-Hexanone	ND	5.0
Isopropylbenzene	ND	0.2

Client ID: VV128A
Site:

Lab Sample No: VV128A
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15851.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
1,2,4-Trimethylbenzene	ND	1.0
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	0.7
Methyl Methacrylate	ND	0.4
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	5.3
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	1.0
Isoprene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.090
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0
n-Butylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
tert-Butylbenzene	ND	1.0
p-Isopropyltoluene	ND	1.0
n-Propylbenzene	ND	1.0
m+p-Ethyltoluene	ND	1.0
o-Ethyltoluene	ND	1.0
Methyl Acetate	ND	0.4
Methyl cyclohexane	ND	0.3
1,2-Dibromo-3-chloropropane	ND	1.0
Cyclohexene	ND	1.0
1,2-Dichlorotrifluoroethane	ND	1.0
n-Propanol	ND	250
3-Methyl-1-Pentyn-3-ol	ND	250
Propylene Oxide	ND	50

Client ID: VV128A
Site:

Lab Sample No: VV128A
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Analyzed: 05/07/00
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v15851.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/VOAMS7.i/624/05-03-00/07may00.b/v15851.d
Report Date: 07-May-2000 15:01

STL Envirotech

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS7.i/624/05-03-00/07may00.b/v15851.d
Lab Smp Id: VV128A
Inj Date : 07-MAY-2000 14:29
Operator : VOAMS 6 Inst ID: VOAMS7.i
Smp Info : VV128A
Misc Info :
Comment :
Method : /chem/VOAMS7.i/624/05-03-00/07may00.b/624_00.m
Meth Date : 07-May-2000 12:28 riaz Quant Type: ISTD
Cal Date : 03-MAY-2000 14:00 Cal File: v15675.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.40
Processing Host: hpd2

Concentration Formula: Amt * DF * 5/Vo

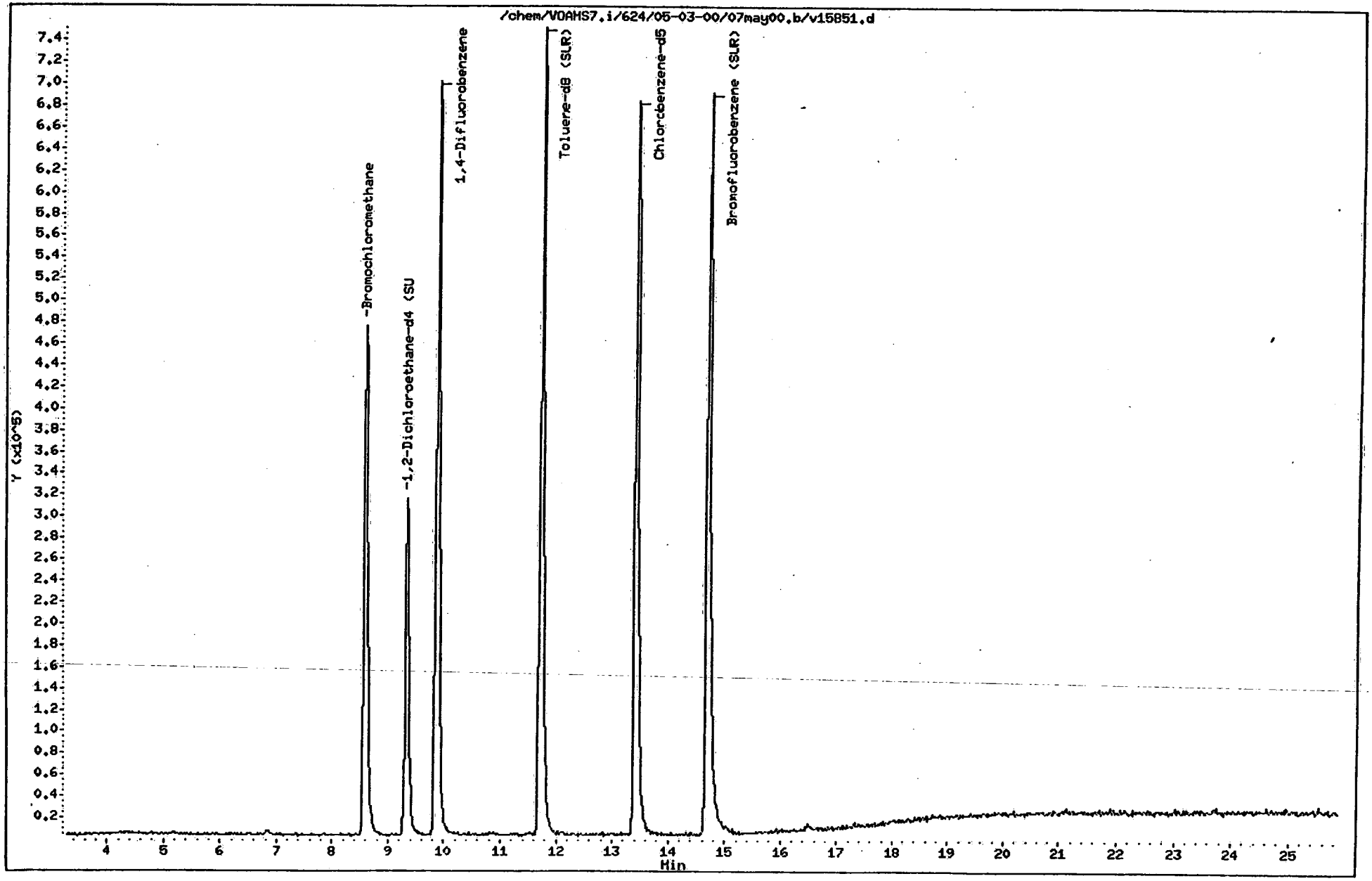
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.571	8.585	(1.000)	335190	30.0000	
$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.313	9.327	(0.944)	92966	31.8548	32
* 19 1,4-Difluorobenzene	114	9.862	9.861	(1.000)	1377193	30.0000	
$ 37 Toluene-d8 (SUR)	98	11.702	11.701	(0.873)	1116021	27.4242	27
* 32 Chlorobenzene-d5	117	13.409	13.393	(1.000)	1077759	30.0000	
$ 41 Bromofluorobenzene (SUR)	174	14.670	14.669	(1.094)	610679	29.5251	30

Data File: /chem/VOAHS7.i/624/05-03-00/07may00.b/v15851.d
Date : 07-MAY-2000 14:29
Client ID:
Sample Info: VV128A
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS7.i

Operator: VOAHS 6
Column diameter: 0.53



40

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

LAB FILE ID: RRF5: V15675 RRF10: V15674 RRF20: V15671
RRF50: V15673 RRF200: V15672

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Chloromethane	0.507	0.506	0.458	0.490	0.430
Bromomethane	0.964	1.047	0.916	0.946	0.870
Vinyl Chloride	0.619	0.669	0.605	0.668	0.578
Chloroethane	0.500	0.563	0.539	0.553	0.484
Methylene Chloride	1.106	1.088	1.054	1.092	0.963
Acetone	0.145	0.225	0.187	0.194	0.138
Carbon Disulfide	2.048	2.306	2.228	2.361	2.238
Trichlorofluoromethane	1.635	1.992	1.815	1.989	1.831
1,1-Dichloroethene	1.012	0.997	0.960	1.006	0.920
1,1-Dichloroethane	2.274	2.193	2.238	2.303	2.109
trans-1,2-Dichloroethene	1.279	1.371	1.352	1.363	1.271
cis-1,2-Dichloroethene	1.563	1.532	1.581	1.614	1.520
Chloroform	3.084	2.984	3.067	3.132	2.928
1,2-Dichloroethane	0.476	0.445	0.466	0.471	0.444
2-Butanone	0.170	0.126	0.119	0.105	0.079
1,1,1-Trichloroethane	2.402	2.340	2.417	2.459	2.279
Carbon Tetrachloride	2.409	2.368	2.465	2.546	2.314
Bromodichloromethane	0.698	0.674	0.716	0.754	0.724
1,2-Dichloropropane	0.350	0.340	0.354	0.368	0.341
cis-1,3-Dichloropropene	0.495	0.517	0.558	0.588	0.556
Trichloroethene	0.443	0.426	0.447	0.463	0.428
Dibromochloromethane	0.701	0.776	0.814	0.928	0.934
1,1,2-Trichloroethane	0.355	0.404	0.414	0.447	0.441
Benzene	0.904	0.837	0.849	0.891	0.827
trans-1,3-Dichloropropene	0.516	0.581	0.628	0.701	0.726
2-Chloroethyl Vinyl Ether	0.194	0.220	0.229	0.251	0.231
Bromoform	0.413	0.481	0.557	0.616	0.613
4-Methyl-2-Pentanone	0.166	0.208	0.206	0.237	0.212
2-Hexanone	0.096	0.118	0.154	0.183	0.181
Tetrachloroethene	0.722	0.798	0.823	0.864	0.865
1,1,2,2-Tetrachloroethane	0.523	0.555	0.617	0.666	0.617
Toluene	1.362	1.475	1.468	1.578	1.542
Chlorobenzene	0.982	1.066	1.120	1.186	1.151
Ethylbenzene	0.451	0.473	0.488	0.533	0.484
Styrene	0.804	0.863	0.940	1.038	0.947
Xylene (Total)	0.591	0.618	0.623	0.682	0.619
Ethyl Ether	0.668	0.698	0.709	0.751	0.670
Acrolein	0.063	0.066	0.067	0.075	0.066
Freon TF	1.919	2.224	2.124	2.191	1.945

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

LAB FILE ID: RRF5: V15675 RRF10: V15674 RRF20: V15671
RRF50: V15673 RRF200: V15672

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Isopropanol					
Acetonitrile	0.003	0.002	0.004	0.004	0.004
TBA	0.041	0.058	0.065	0.046	0.041
Acrylonitrile	0.126	0.133	0.133	0.145	0.134
MTBE	2.756	2.940	2.809	2.986	2.639
Hexane					
DIPE	4.049	4.411	4.182	4.419	3.926
Ethyl Acetate	1.205	1.184	1.167	1.202	0.992
Vinyl Acetate	3.080	3.387	3.406	3.724	3.316
Tetrahydrofuran					
Cyclohexane	1.519	1.665	1.525	1.658	1.432
Isobutanol					
Isopropyl Acetate	0.486	0.524	0.553	0.585	0.536
n-Heptane					
n-Butanol					
Propyl Acetate	0.371	0.390	0.380	0.434	0.371
Butyl Acetate	0.397	0.531	0.573	0.675	0.688
1,2-Dibromoethane	0.596	0.648	0.683	0.765	0.741
1,3-Dichlorobenzene	0.602	0.706	0.749	0.784	0.781
1,4-Dichlorobenzene	0.933	0.932	1.110	1.160	0.998
1,2-Dichlorobenzene	0.661	0.738	0.833	0.828	0.770
Naphthalene	0.866	1.216	1.142	1.090	0.798
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.163	1.248	1.163	1.309	1.110
1,4-Dioxane	0.002	0.001	0.001	0.001	0.001
n-Pentane	0.172	0.200	0.200	0.196	0.182
5-Methyl-2-Hexanone					
Isopropylbenzene	1.495	1.652	1.759	1.864	1.603
1,2,4-Trimethylbenzene	1.061	1.143	1.237	1.314	1.145
Cyclohexanone					
1,2,4-Trichlorobenzene	0.542	0.644	0.719	0.664	0.552
Methyl Methacrylate	0.068	0.081	0.085	0.094	0.093
Allyl Alcohol					
Epichlorohydrin	0.016	0.017	0.018	0.021	0.018
Allyl Chloride					
Benzyl Chloride	0.425	0.517	0.534	0.674	0.721
Isoprene	0.788	0.921	0.819	0.879	0.783
1,1,1,2-Tetrachloroethane					

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

LAB FILE ID: RRF5: V15675 RRF10: V15674 RRF20: V15671
RRF50: V15673 RRF200: V15672

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Camphene (total)	0.383	0.388	0.390	0.415	0.337
Camphor	0.037	0.048	0.028	0.044	0.029
1,3,5-Trimethylbenzene	1.109	1.231	1.283	1.386	1.156
1,2,3-Trichlorobenzene					
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
p-Isopropyltoluene					
n-Propylbenzene					
m+p-Ethyltoluene					
o-Ethyltoluene					
Methyl Acetate	0.573	0.568	0.685	0.757	0.618
Methyl cyclohexane	0.431	0.484	0.472	0.493	0.444
1,2-Dibromo-3-chloropropane	0.079	0.104	0.121	0.109	0.109
Cyclohexene					
1,2-Dichlorotrifluoroethane					
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
1,2-Dichloroethane-d4 (SUR)	0.064	0.064	0.063	0.065	0.062
Toluene-d8 (SUR)	1.006	1.123	1.107	1.186	1.242
Bromofluorobenzene (SUR)	0.513	0.567	0.590	0.616	0.592

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Chloromethane	AVRG	0.47848152	7.0*
Bromomethane	AVRG	0.94865184	6.9*
Vinyl Chloride	AVRG	0.62778299	6.4*
Chloroethane	AVRG	0.52779141	6.5*
Methylene Chloride	AVRG	1.06066560	5.4*
Acetone	AVRG	0.17775643	20.3*
Carbon Disulfide	AVRG	2.23639682	5.3*
Trichlorofluoromethane	AVRG	1.85253714	8.0*
1,1-Dichloroethene	AVRG	0.97904349	4.0*
1,1-Dichloroethane	AVRG	2.22352217	3.4*
trans-1,2-Dichloroethene	AVRG	1.32710165	3.6*
cis-1,2-Dichloroethene	AVRG	1.56198329	2.4*
Chloroform	AVRG	3.03896096	2.7*
1,2-Dichloroethane	AVRG	0.46043192	3.3*
2-Butanone	AVRG	0.11981143	27.9*
1,1,1-Trichloroethane	AVRG	2.37934522	3.0*
Carbon Tetrachloride	AVRG	2.42064158	3.7*
Bromodichloromethane	AVRG	0.71333682	4.2*
1,2-Dichloropropane	AVRG	0.35044483	3.3*
cis-1,3-Dichloropropene	AVRG	0.54295096	6.8*
Trichloroethene	AVRG	0.44140046	3.4*
Dibromochloromethane	AVRG	0.83072595	12.1*
1,1,2-Trichloroethane	AVRG	0.41234278	8.9*
Benzene	AVRG	0.86156932	4.0*
trans-1,3-Dichloropropene	AVRG	0.63045106	13.6*
2-Chloroethyl Vinyl Ether	AVRG	0.22490571	9.1*
Bromoform	AVRG	0.53612459	16.4*
4-Methyl-2-Pentanone	AVRG	0.20617943	12.3*
2-Hexanone	AVRG	0.14645231	26.6*
Tetrachloroethene	AVRG	0.81420181	7.2*
1,1,2,2-Tetrachloroethane	AVRG	0.59576300	9.5*
Toluene	AVRG	1.48496281	5.6*
Chlorobenzene	AVRG	1.10093836	7.2*
Ethylbenzene	AVRG	0.48582516	6.2*
Styrene	AVRG	0.91839993	9.7*
Xylene (Total)	AVRG	0.62674225	5.4*
Ethyl Ether	AVRG	0.69927287	4.9*
Acrolein	AVRG	0.06735950	6.7*
Freon TF	AVRG	2.08054113	6.8*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.00351092	24.2*
TBA	AVRG	0.05026757	21.2*
Acrylonitrile	AVRG	0.13437696	5.0*
MTBE	AVRG	2.82590885	5.0*
Hexane	AVRG		
DIPE	AVRG	4.19742250	5.2*
Ethyl Acetate	AVRG	1.15009603	7.8*
Vinyl Acetate	AVRG	3.38250912	6.8*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	1.56007508	6.4*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.53676204	6.8*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.38919208	6.8*
Butyl Acetate	AVRG	0.57297331	20.7*
1,2-Dibromoethane	AVRG	0.68658518	10.0*
1,3-Dichlorobenzene	AVRG	0.72426234	10.4*
1,4-Dichlorobenzene	AVRG	1.02646334	10.1*
1,2-Dichlorobenzene	AVRG	0.76606309	9.3*
Naphthalene	AVRG	1.02234604	17.7*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	1.19847060	6.6**
1,4-Dioxane	AVRG	0.00127462	20.2*
n-Pentane	AVRG	0.18999437	6.7**
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG	1.67450868	8.5*
1,2,4-Trimethylbenzene	AVRG	1.17992771	8.2**
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.62441741	12.1**
Methyl Methacrylate	AVRG	0.08412798	12.3*
Allyl Alcohol	AVRG		
Epichlorohydrin	AVRG	0.01817249	10.9**
Allyl Chloride	AVRG		
Benzyl Chloride	AVRG	0.57413927	21.1**
Isoprene	AVRG	0.83808167	7.2**
1,1,1,2-Tetrachloroethane	AVRG		

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Calibration Time(s): 1151 1400

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Camphene (total)	AVRG	0.38264740	7.4*
Camphor	AVRG	0.03736408	23.7*
1,3,5-Trimethylbenzene	AVRG	1.23308762	8.8**
1,2,3-Trichlorobenzene	AVRG		
n-Butylbenzene	AVRG		
sec-Butylbenzene	AVRG		
tert-Butylbenzene	AVRG		
p-Isopropyltoluene	AVRG		
n-Propylbenzene	AVRG		
m+p-Ethyltoluene	AVRG		
o-Ethyltoluene	AVRG		
Methyl Acetate	AVRG	0.64020278	12.6*
Methyl cyclohexane	AVRG	0.46496429	5.6*
1,2-Dibromo-3-chloropropane	AVRG	0.10435520	15.1**
Cyclohexene	AVRG		
1,2-Dichlorotrifluoroethane	AVRG		
n-Propanol	AVRG		
3-Methyl-1-Pentyn-3-ol	AVRG		
Propylene Oxide	AVRG		
1,2-Dichloroethane-d4 (SUR)	AVRG	0.06357350	1.9*
Toluene-d8 (SUR)	AVRG	1.13276218	7.8*
Bromofluorobenzene (SUR)	AVRG	0.57573305	6.8*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 05/07/00 Time: 1204

Lab File ID: V15848 Init. Calib. Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Init. Calib. Times: 1151 1400

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Chloromethane	0.478	0.367		23.2	104
Bromomethane	0.949	0.820		13.6	86.0
Vinyl Chloride	0.628	0.515		18.0	96.0
Chloroethane	0.528	0.454		14.0	62.0
Methylene Chloride	1.061	0.964		9.1	39.5
Acetone	0.178	0.132		25.8	
Carbon Disulfide	2.236	1.868		16.4	
Trichlorofluoromethane	1.852	1.842		0.5	52.0
1,1-Dichloroethene	0.979	0.848		13.4	49.5
1,1-Dichloroethane	2.223	2.025		8.9	27.5
trans-1,2-Dichloroethene	1.327	1.230		7.3	30.5
cis-1,2-Dichloroethene	1.562	1.434		8.2	
Chloroform	3.039	2.908		4.3	32.5
1,2-Dichloroethane	0.460	0.442		3.9	32.0
2-Butanone	0.120	0.096		20.0	
1,1,1-Trichloroethane	2.379	2.318		2.6	25.0
Carbon Tetrachloride	2.420	2.333		3.6	27.0
Bromodichloromethane	0.713	0.686		3.8	34.5
1,2-Dichloropropane	0.351	0.321		8.5	66.0
cis-1,3-Dichloropropene	0.543	0.506		6.8	76.0
Trichloroethene	0.441	0.405		8.2	33.5
Dibromochloromethane	0.831	0.804		3.2	32.5
1,1,2-Trichloroethane	0.412	0.382		7.3	29.0
Benzene	0.862	0.788		8.6	36.0
trans-1,3-Dichloropropene	0.630	0.574		8.9	50.0
2-Chloroethyl Vinyl Ether	0.225	0.206		8.4	124
Bromoform	0.536	0.532		0.7	29.0
4-Methyl-2-Pentanone	0.206	0.200		2.9	
2-Hexanone	0.146	0.131		10.3	
Tetrachloroethene	0.814	0.801		1.6	26.5
1,1,2,2-Tetrachloroethane	0.596	0.562		5.7	39.5
Toluene	1.485	1.356		8.7	25.5
Chlorobenzene	1.101	1.037		5.8	34.0
Ethylbenzene	0.486	0.462		4.9	41.0
Styrene	0.918	0.865		5.8	
Xylene (Total)	0.627	0.597		4.8	
Ethyl Ether	0.699	0.630		9.9	

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 05/07/00 Time: 1204

Lab File ID: V15848 Init. Calib. Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Init. Calib. Times: 1151 1400

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Acrolein	0.067	0.058		13.4	
Freon TF	2.081	1.964		5.6	
Isopropanol					
Acetonitrile	0.003	0.002		33.3	
TBA	0.050	0.043		14.0	
Acrylonitrile	0.134	0.118		11.9	
MTBE	2.826	2.556		9.6	
Hexane					
DIPE	4.197	3.745		10.8	
Ethyl Acetate	1.150	1.025		10.9	
Vinyl Acetate	3.383	2.905		14.1	
Tetrahydrofuran					
Cyclohexane	1.560	1.358		12.9	
Isobutanol					
Isopropyl Acetate	0.537	0.477		11.2	
n-Heptane					
n-Butanol					
Propyl Acetate	0.389	0.358		8.0	
Butyl Acetate	0.573	0.522		8.9	
1,2-Dibromoethane	0.687	0.642		6.6	
1,3-Dichlorobenzene	0.724	0.701		3.2	27.0
1,4-Dichlorobenzene	1.027	0.926		9.8	37.0
1,2-Dichlorobenzene	0.766	0.677		11.6	37.0
Naphthalene	1.022	0.564		44.8	
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.199	0.960	0.01	19.9	40.0
1,4-Dioxane	0.001	0.001		0.0	
n-Pentane	0.190	0.169	0.01	11.0	
5-Methyl-2-Hexanone			0.01		50.0
Isopropylbenzene	1.675	1.643		1.9	
1,2,4-Trimethylbenzene	1.180	1.125	0.01	4.7	50.0
Cyclohexanone			0.0001		50.0
1,2,4-Trichlorobenzene	0.624	0.453	0.01	27.4	50.0
Methyl Methacrylate	0.084	0.083		1.2	
Allyl Alcohol					40.0
Epichlorohydrin	0.018	0.016	0.01	11.1	40.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS7 Calibration Date: 05/07/00 Time: 1204

Lab File ID: V15848 Init. Calib. Date(s): 05/03/00 05/03/00

Heated Purge: (Y/N) N Init. Calib. Times: 1151 1400

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Allyl Chloride			0.01		40.0
Benzyl Chloride	0.574	0.515	0.01	10.3	40.0
Isoprene	0.838	0.752	0.01	10.3	40.0
1,1,1,2-Tetrachloroethane			0.01		50.0
Camphene (total)	0.383	0.350		8.6	
Camphor	0.037	0.026		29.7	
1,3,5-Trimethylbenzene	1.233	1.222	0.01	0.9	50.0
1,2,3-Trichlorobenzene					50.0
n-Butylbenzene					50.0
sec-Butylbenzene					50.0
tert-Butylbenzene					50.0
p-Isopropyltoluene					50.0
n-Propylbenzene					50.0
m+p-Ethyltoluene					50.0
o-Ethyltoluene					50.0
Methyl Acetate	0.640	0.671		-4.8	
Methyl cyclohexane	0.465	0.432		7.1	
1,2-Dibromo-3-chloropropane	0.104	0.078	0.01	25.0	
Cyclohexene					
1,2-Dichlorotrifluoroethane					
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
1,2-Dichloroethane-d4 (SUR)	0.064	0.065		-1.4	
Toluene-d8 (SUR)	1.133	1.105		2.5	
Bromofluorobenzene (SUR)	0.576	0.650		-12.8	

page 3 of 3

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 624

Matrix: WATER Level: LOW Lab Job No: Z784

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
01	VV128A	107	90	100		0
02	201478	99	94	90		0
03						
04						
05						
06						
07						
08						
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25						
26						
27						
28						
29						
30						

		QC LIMITS
S1	= 1,2-Dichloroethane-d4	(83-117)
S2	= Toluene-d8	(78-120)
S3	= Bromofluorobenzene	(70-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 201652

MS Sample from Lab Job No: Z806

QA Batch: 2255

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	45	38	0-273
Bromomethane	70	65	0-242
Vinyl Chloride	50	48	0-251
Chloroethane	75	70	14-230
Methylene Chloride	72	85	0-221
Trichlorofluoromethane	90	80	17-181
1,1-Dichloroethene	84	80	0-234
1,1-Dichloroethane	110	95	59-155
trans-1,2-Dichloroethene	92	85	54-156
Chloroform	82	100	51-138
1,2-Dichloroethane	108	100	49-155
1,1,1-Trichloroethane	100	95	52-162
Carbon Tetrachloride	100	95	70-140
Bromodichloromethane	108	100	35-155
1,2-Dichloropropane	105	95	0-210
cis-1,3-Dichloropropene	100	100	0-227
Trichloroethene	75	95	71-157
Dibromochloromethane	105	105	53-149
1,1,2-Trichloroethane	108	105	52-150
Benzene	90	95	37-151
trans-1,3-Dichloropropene	102	105	17-183
2-Chloroethyl Vinyl Ether	0	95	0-305
Bromoform	115	110	45-169
Tetrachloroethene	103	100	64-148
1,1,2,2-Tetrachloroethane	110	100	46-157
Toluene	100	95	47-150
Chlorobenzene	104	100	37-160
Ethylbenzene	102	100	37-162
1,3-Dichlorobenzene	105	100	59-156
1,4-Dichlorobenzene	105	100	18-190

* Values outside of QC limits

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 201652

MS Sample from Lab Job No: Z806

QA Batch: 2255

Compound	MS % REC.	BS % REC.	LIMITS
1,2-Dichlorobenzene	118	100	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): V15848 Date Analyzed: 05/07/00

Instrument ID: VOAMS7 Time Analyzed: 1204

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	347804	8.60	1421103	9.88	1005710	13.41
	UPPER LIMIT	695608	9.10	2842206	10.38	2011420	13.91
	LOWER LIMIT	173902	8.10	710552	9.38	502855	12.91
	LABORATORY SAMPLE NO.						
01	VV128A	335190	8.57	1377193	9.86	1077759	13.41
02	201478	303432	8.58	1239062	9.86	930399	13.41
03							
04							
05							
06							
07							
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19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Phenol	ND	1.4
2-Chlorophenol	ND	2.7
2-Nitrophenol	ND	2.4
2,4-Dimethylphenol	ND	1.8
2,4-Dichlorophenol	ND	1.8
4-Chloro-3-methylphenol	ND	2.7
2,4,6-Trichlorophenol	ND	0.9
2,4-Dinitrophenol	ND	1.6
4-Nitrophenol	ND	1.4
4,6-Dinitro-2-methylphenol	ND	1.8
Pentachlorophenol	ND	2.4

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
N-Nitrosodimethylamine	ND	0.7
bis(2-Chloroethyl)ether	ND	1.6
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8
bis(2-chloroisopropyl)ether	ND	1.5
N-Nitroso-di-n-propylamine	ND	1.2
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.2
Isophorone	ND	1.2
bis(2-Chloroethoxy)methane	ND	1.3
1,2,4-Trichlorobenzene	ND	0.8
Naphthalene	ND	1.1
Hexachlorobutadiene	ND	0.8
Hexachlorocyclopentadiene	ND	1.3
2-Chloronaphthalene	ND	1.1
Dimethylphthalate	ND	0.7
Acenaphthylene	ND	0.7
2,6-Dinitrotoluene	ND	1.0
Acenaphthene	ND	0.8
2,4-Dinitrotoluene	ND	0.8
Diethylphthalate	ND	0.6
4-Chlorophenyl-phenylether	ND	0.8
Fluorene	ND	1.0
N-Nitrosodiphenylamine	ND	0.8
4-Bromophenyl-phenylether	ND	1.8
Hexachlorobenzene	ND	0.8
Phenanthrene	ND	0.7
Anthracene	ND	0.4
Di-n-butylphthalate	ND	0.7
Fluoranthene	ND	0.7
Pyrene	ND	0.8
Benzidine	ND	19
Butylbenzylphthalate	ND	1.0

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
3,3'-Dichlorobenzidine	ND	6.8
Benzo(a)anthracene	ND	0.6
Chrysene	ND	0.9
bis(2-Ethylhexyl)phthalate	ND	2.8
Di-n-octylphthalate	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.9
Benzo(a)pyrene	ND	0.4
Indeno(1,2,3-cd)pyrene	ND	0.7
Dibenz(a,h)anthracene	ND	0.4
Benzo(g,h,i)perylene	ND	0.6

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample No: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/03/00
Date Analyzed: 06/05/00
GC Column: DB-5
Instrument ID: BNAMS6.i
Lab File ID: m2199.d

Matrix: WATER
Level: LOW
Sample Volume: 700 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown	22.12	12	
2.			
3.			
4.			
5.			
6.			
7.			
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9.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION 12

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2199.d
Report Date: 06-Jun-2000 12:31

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2199.d
Lab Smp Id: 201478 Client Smp ID: SW-1
Inj Date : 05-JUN-2000 22:20
Operator : BNAMS 1 Inst ID: BNAMS6.i
Smp Info : 201478;700;2;1
Misc Info : Z784;PPBNA+25;5413;141;
Comment :
Method : /chem/BNAMS6.i/625/06-04-00/05jun00.b/BNA625b.m
Meth Date : 05-Jun-2000 14:42 wahied Quant Type: ISTD
Cal Date : 04-JUN-2000 13:43 Cal File: m2158.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPBNAb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	700.00000	Volume of sample extracted (mL)

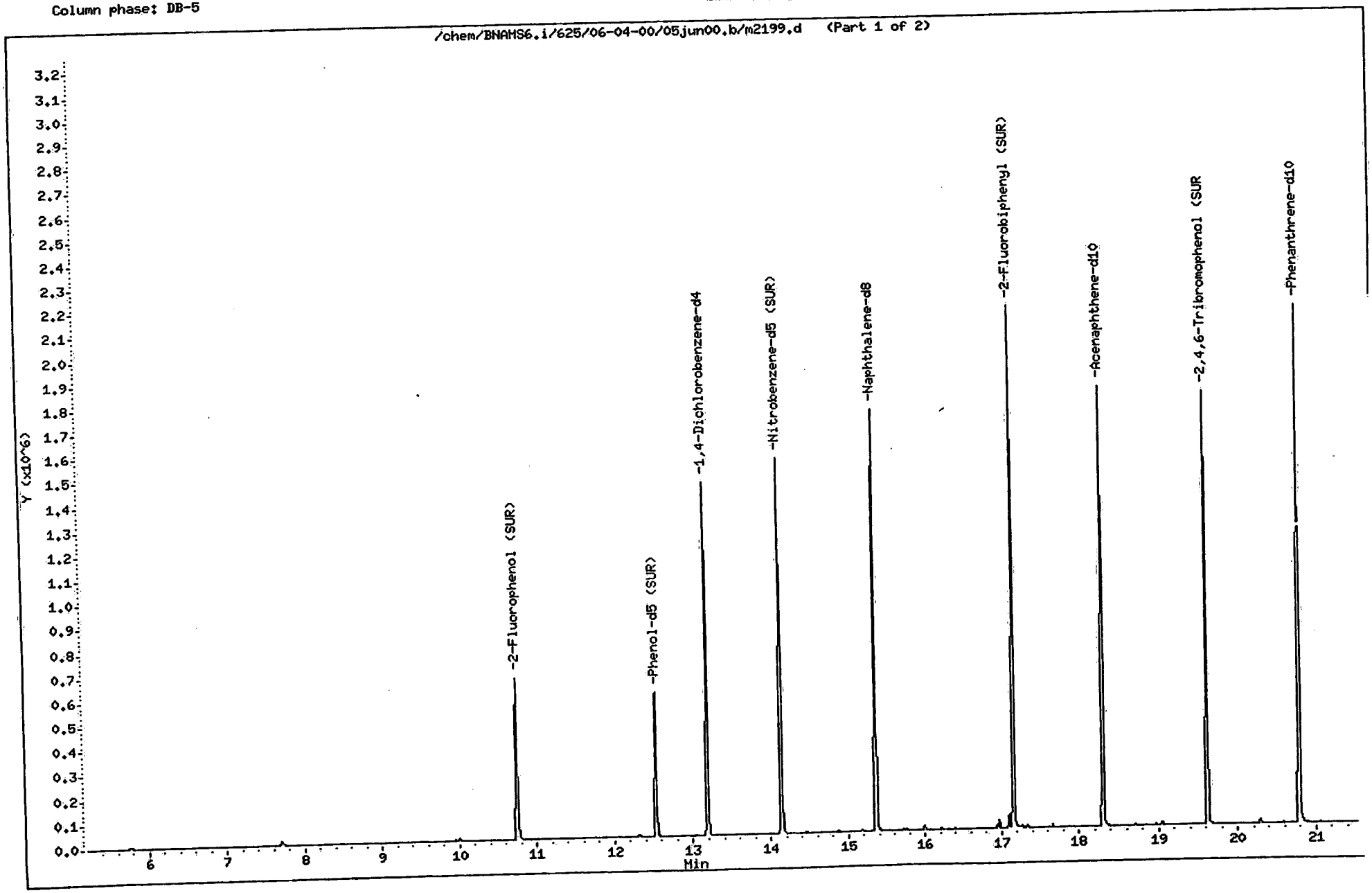
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 16 2-Fluorophenol (SUR)	112	10.744	10.753	(0.815)	234687	28.5647	82
$ 17 Phenol-d5 (SUR)	99	12.533	12.555	(0.950)	228435	19.6362	56
* 79 1,4-Dichlorobenzene-d4	152	13.188	13.193	(1.000)	232395	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	14.138	14.153	(0.920)	759973	46.8411	130
* 80 Naphthalene-d8	136	15.364	15.372	(1.000)	785277	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	17.166	17.169	(0.937)	713964	40.6814	120
* 82 Acenaphthene-d10	164	18.314	18.316	(1.000)	512735	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.618	19.630	(1.071)	206001	47.5937	140
* 83 Phenanthrene-d10	188	20.791	20.803	(1.000)	1085041	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	23.426	23.429	(0.927)	1375006	49.7415	140
* 81 Chrysene-d12	240	25.269	25.286	(1.000)	1186680	40.0000	
* 84 Perylene-d12	264	29.059	29.089	(1.000)	1051666	40.0000	

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2199.d
Date : 05-JUN-2000 22:20
Client ID: SW-1
Sample Info: 201478;700;2;1
Purge Volume: 700.0
Column phase: DB-5

Instrument: BNAMS6.i

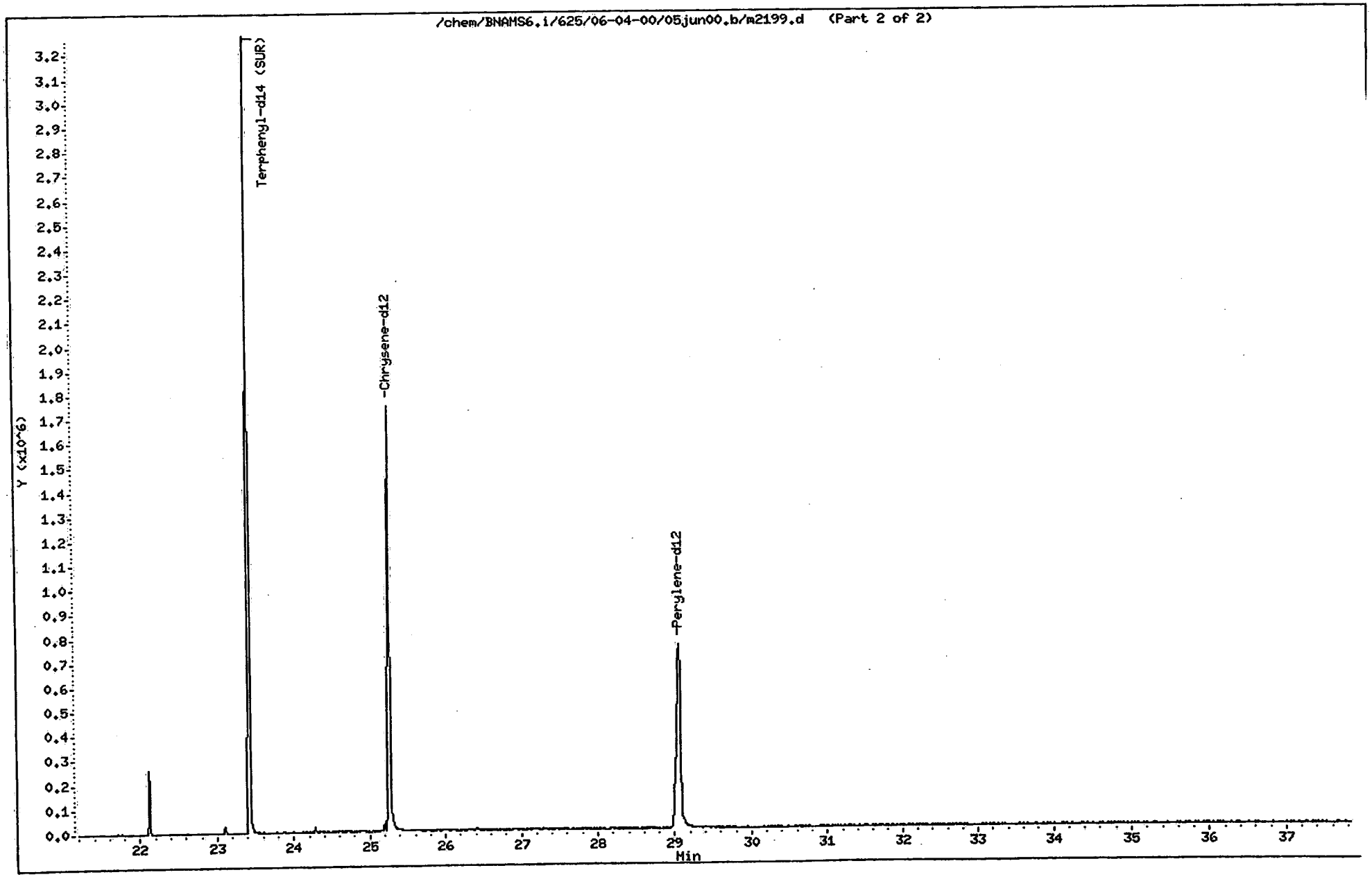
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2199.d
Date : 05-JUN-2000 22:20
Client ID: SW-1
Sample Info: 201478;700;2;1
Purge Volume: 700.0
Column phase: DB-5

Instrument: BNAMS6.i

Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2199.d

Date : 05-JUN-2000 22:20

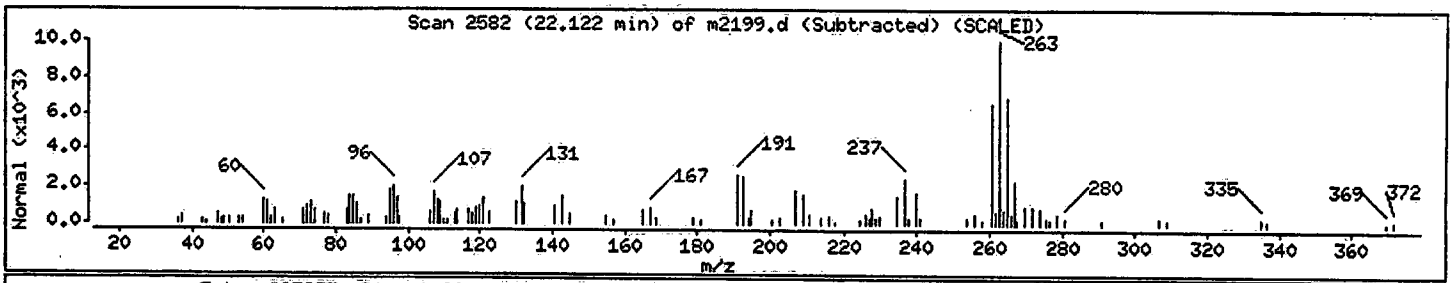
Client ID: SW-1 Instrument: BNAMS6.i

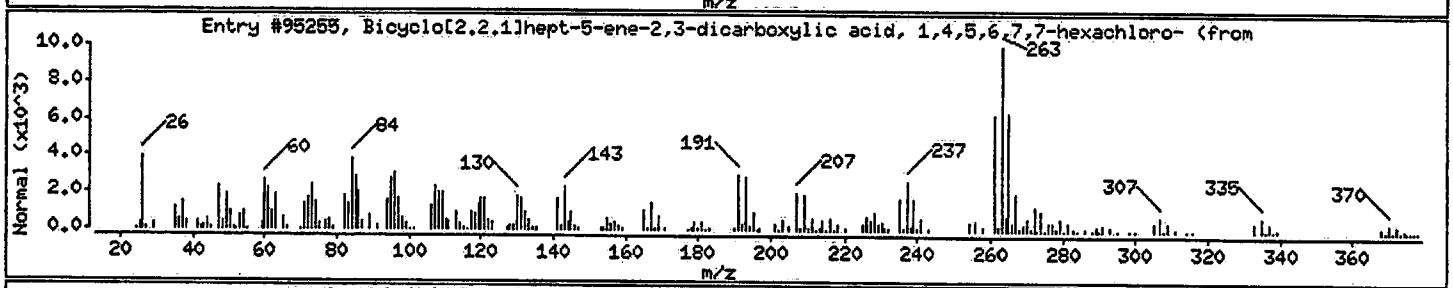
Sample Info: 201478;700;2;1

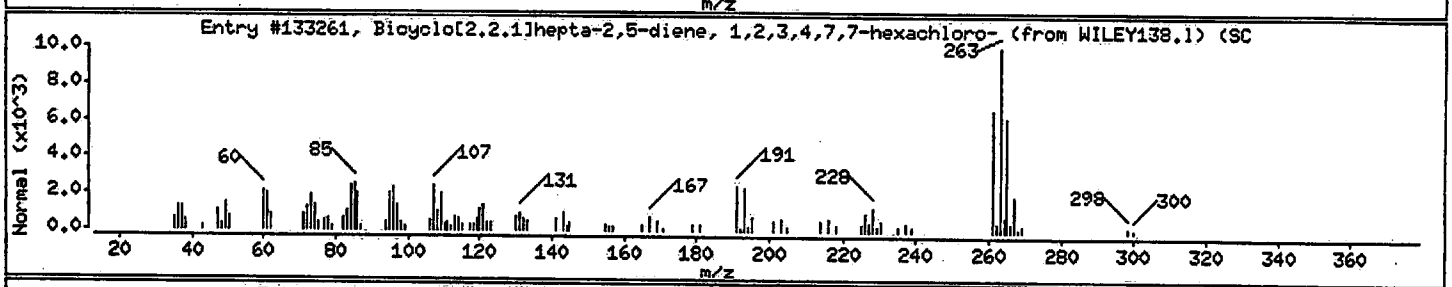
Purge Volume: 700.0 Operator: BNAMS 1

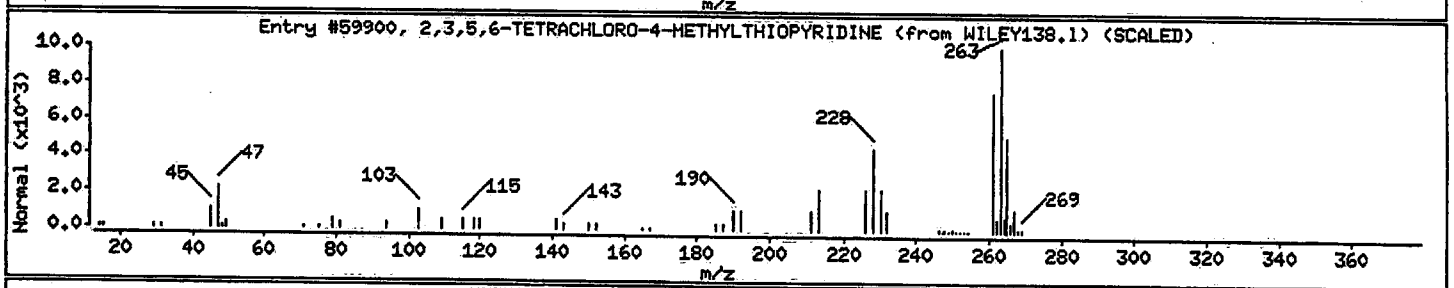
Column phase: DB-5 Column diameter: 0.53

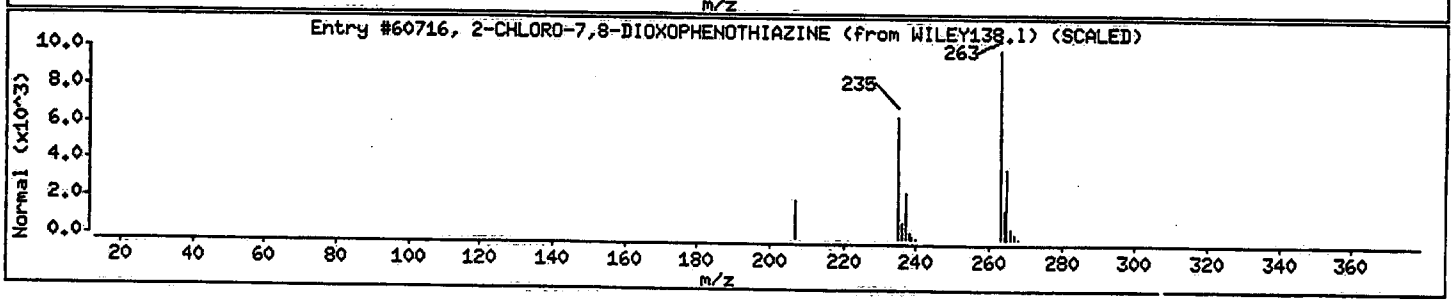
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	115-28-6	WILEY138.1	95255	78	C9H4Cl6O4	386
Bicyclo[2.2.1]hepta-2,5-diene, 1,2,3,4,7	3389-71-7	WILEY138.1	133261	74	C7H2Cl6	296
2,3,5,6-TETRACHLORO-4-METHYLTHIOPYRIDINE	0-00-0	WILEY138.1	59900	49	C6H3Cl4NS	261
2-CHLORO-7,8-DIOXOPHENOTHIAZINE	52174-39-7	WILEY138.1	60716	32	C12H6ClNO2S	263











SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: T1188

DFTPP Injection Date: 05/04/00

Instrument ID: BNAMS3

DFTPP Injection Time: 0815

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.7
68	Less than 2.0% of mass 69	0.5 (0.7)1
69	Mass 69 relative abundance	71.3
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.0% of mass 198	4.82
441	0.0 - 100.0% of mass 443	8.4 (87.5)2
442	40.0 - 110.0% of mass 198	49.9
443	17.0 - 23.0% of mass 442	9.6 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TSTD050	TSTD050	T1190	05/04/00	0928
02	TSTD120	TSTD120	T1191	05/04/00	1020
03	TSTD080	TSTD080	T1192	05/04/00	1111
04	TSTD010	TSTD010	T1194	05/04/00	1249
05	TSTD020	TSTD020	T1195	05/04/00	1355
06	WB124	WB124	T1200	05/04/00	1859
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

page 1 of 1

Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1188.d

Date : 04-MAY-2000 08:15

Client ID:

Instrument: BNAMS3.i

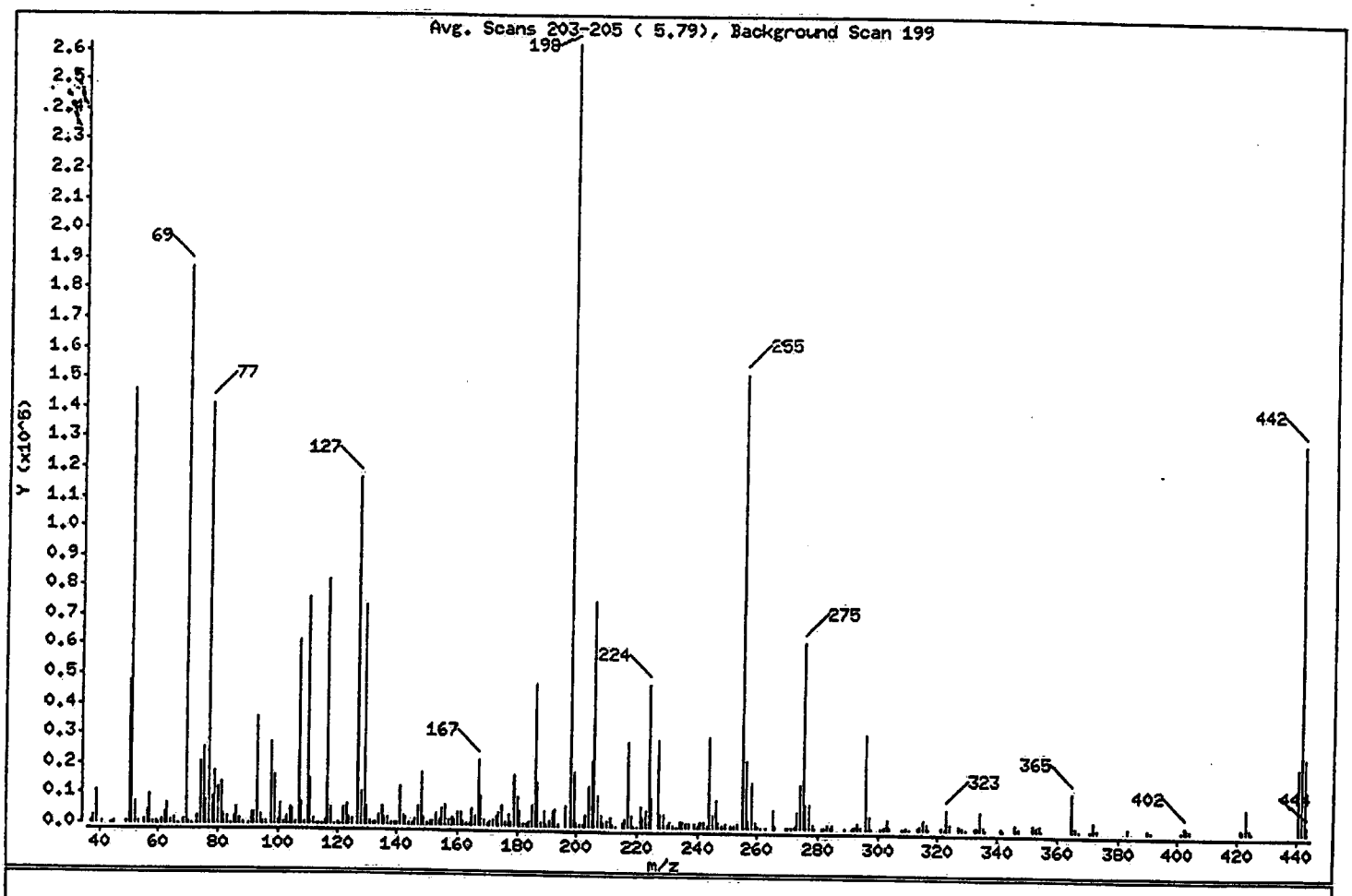
Sample Info: TDFT125

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	55.69
68	Less than 2.00% of mass 69	0.52 (0.73)
69	Mass 69 relative abundance	71.32
70	Less than 2.00% of mass 69	0.26 (0.36)
127	40.00 - 60.00% of mass 198	44.33
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	23.68
365	Greater than 1.00% of mass 198	4.82
441	0.01 - 100.00% of mass 443	8.37 (87.62)
442	40.00 - 110.00% of mass 198	49.85
443	17.00 - 23.00% of mass 442	9.56 (19.18)

Data File: /chem/BNAHS3.i/625/05-04-00/04may00.b/t1188.d

Date : 04-MAY-2000 08:15

Client ID:

Sample Info: TDFT125

Instrument: BNAHS3.i

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: t1188.d

Spectrum: Avg. Scans 203-205 (5.79), Background Scan 199

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	844	120.00	755	193.00	5367	276.00	7848
38.00	2240	121.00	194	194.00	781	277.00	7820
39.00	11141	122.00	5178	196.00	6808	278.00	1223
41.00	451	123.00	6607	198.00	262208	279.00	198
44.00	117	124.00	2685	199.00	17992	281.00	264
45.00	320	125.00	1647	200.00	1437	282.00	188
49.00	495	127.00	116248	201.00	611	283.00	998
50.00	47328	128.00	10923	202.00	668	284.00	647
51.00	146048	129.00	73288	203.00	3574	285.00	1207
52.00	7105	130.00	6025	204.00	13104	289.00	118
53.00	309	131.00	1460	205.00	21776	291.00	301
55.00	1491	132.00	569	206.00	75152	292.00	320
56.00	4271	133.00	363	207.00	10028	293.00	1648
57.00	9442	134.00	2838	208.00	3816	294.00	355
58.00	384	135.00	5913	209.00	1197	296.00	31136
59.00	456	136.00	2299	210.00	1528	297.00	4416
60.00	120	137.00	2677	211.00	3067	298.00	277
61.00	1383	138.00	337	212.00	785	301.00	210
62.00	3502	139.00	693	213.00	182	302.00	357
63.00	6475	140.00	821	215.00	1043	303.00	3228
64.00	1068	141.00	12559	216.00	2452	304.00	668
65.00	2083	142.00	3183	217.00	28376	308.00	162
66.00	298	143.00	2398	218.00	3357	309.00	375
68.00	1361	144.00	634	219.00	215	310.00	269
69.00	187008	145.00	446	220.00	291	313.00	343
70.00	679	146.00	1720	221.00	6517	314.00	1214
71.00	147	147.00	6116	222.00	3198	315.00	2962
73.00	2140	148.00	17520	223.00	5200	316.00	1670
74.00	20432	149.00	2558	224.00	47400	317.00	102
75.00	25456	150.00	389	225.00	9932	321.00	805
76.00	7780	151.00	1152	227.00	28776	322.00	152
77.00	141056	152.00	1175	228.00	4445	323.00	6836
78.00	9150	153.00	3382	229.00	4327	324.00	1517
79.00	17312	154.00	1971	230.00	472	327.00	1369
80.00	11936	155.00	5322	231.00	1512	328.00	425

Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1188.d

Date : 04-MAY-2000 08:15

Client ID:

Instrument: BNAMS3.i

Sample Info: TDFT125

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: t1188.d

Spectrum: Avg. Scans 203-205 (5.79), Background Scan 199

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	13928	156.00	6538	232.00	360	329.00	117
82.00	2781	157.00	1519	233.00	192	332.00	462
83.00	2356	158.00	2426	234.00	1540	333.00	749
84.00	269	159.00	1521	235.00	1541	334.00	5816
85.00	2576	160.00	3991	236.00	1431	335.00	1265
86.00	5173	161.00	4050	237.00	1236	336.00	111
87.00	1608	162.00	1033	239.00	1051	341.00	636
88.00	528	163.00	826	240.00	574	342.00	117
90.00	185	164.00	612	241.00	1573	346.00	1692
91.00	3665	165.00	5356	242.00	1986	347.00	359
92.00	3840	166.00	3205	243.00	460	352.00	1925
93.00	35344	167.00	21808	244.00	30088	353.00	1294
94.00	2762	168.00	9870	245.00	3971	354.00	2046
95.00	488	169.00	1557	246.00	8796	355.00	150
96.00	875	170.00	753	247.00	1612	365.00	12639
98.00	27232	171.00	932	248.00	653	366.00	1330
99.00	16382	172.00	1853	249.00	1189	367.00	120
100.00	1316	173.00	2963	251.00	330	371.00	199
101.00	6898	174.00	4475	252.00	584	372.00	3045
102.00	380	175.00	6902	253.00	1043	373.00	635
103.00	2655	176.00	1293	255.00	151808	383.00	990
104.00	5586	177.00	3324	256.00	22496	390.00	403
105.00	5021	178.00	1232	257.00	2304	391.00	274
106.00	548	179.00	16600	258.00	15319	401.00	114
107.00	61184	180.00	9833	259.00	2016	402.00	1729
108.00	7254	181.00	4652	260.00	398	403.00	1089
109.00	473	182.00	543	261.00	213	404.00	772
110.00	75912	183.00	412	263.00	110	421.00	1100
111.00	14930	184.00	1336	265.00	6227	422.00	731
112.00	1712	185.00	6393	266.00	594	423.00	7863
113.00	260	186.00	47544	269.00	111	424.00	1488
114.00	156	187.00	14486	270.00	136	425.00	121
115.00	178	188.00	1094	271.00	292	441.00	21944
116.00	1212	189.00	4539	272.00	555	442.00	130728
117.00	81832	190.00	811	273.00	5237	443.00	25072

Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1188.d

Date : 04-MAY-2000 08:15

Client ID:

Instrument: BNAMS3.i

Sample Info: TDFT125

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: t1188.d

Spectrum: Avg. Scans 203-205 (5.79), Background Scan 199

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	5659	191.00	1591	274.00	14706	444.00	2217
119.00	88	192.00	4797	275.00	62088		

Data File: /chem/BNAHS3.i/625/05-04-00/04may00.b/t1188.d

Date : 04-MAY-2000 08:15

Client ID:

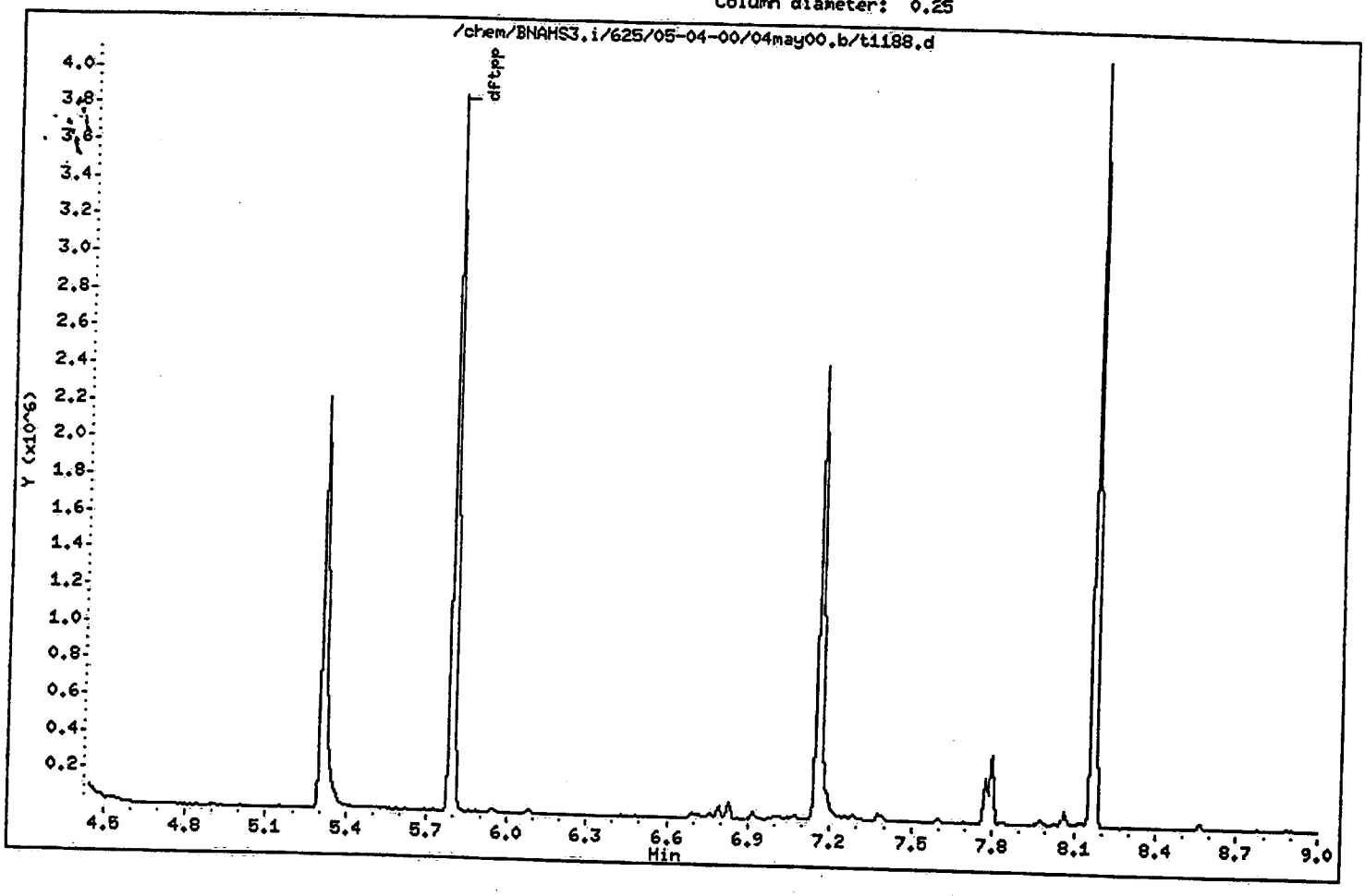
Instrument: BNAHS3.i

Sample Info: TDFT125

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: M2153 DFTPP Injection Date: 06/04/00

Instrument ID: BNAMS6 DFTPP Injection Time: 1009

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	77.5
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% 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 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.7
365	Greater than 1.0% of mass 198	3.21
441	0.0 - 100.0% of mass 443	7.4 (80.3)2
442	40.0 - 110.0% of mass 198	49.0
443	17.0 - 23.0% of mass 442	9.2 (18.8)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MSTD050	MSTD050	M2154	06/04/00	1034
02	MSTD120	MSTD120	M2155	06/04/00	1121
03	MSTD010	MSTD010	M2156	06/04/00	1208
04	MSTD080	MSTD080	M2157	06/04/00	1255
05	MSTD020	MSTD020	M2158	06/04/00	1343
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS6.i/625/06-04-00/04jun00.b/m2153.d

Date : 04-JUN-2000 10:09

Client ID:

Instrument: BNAMS6.i

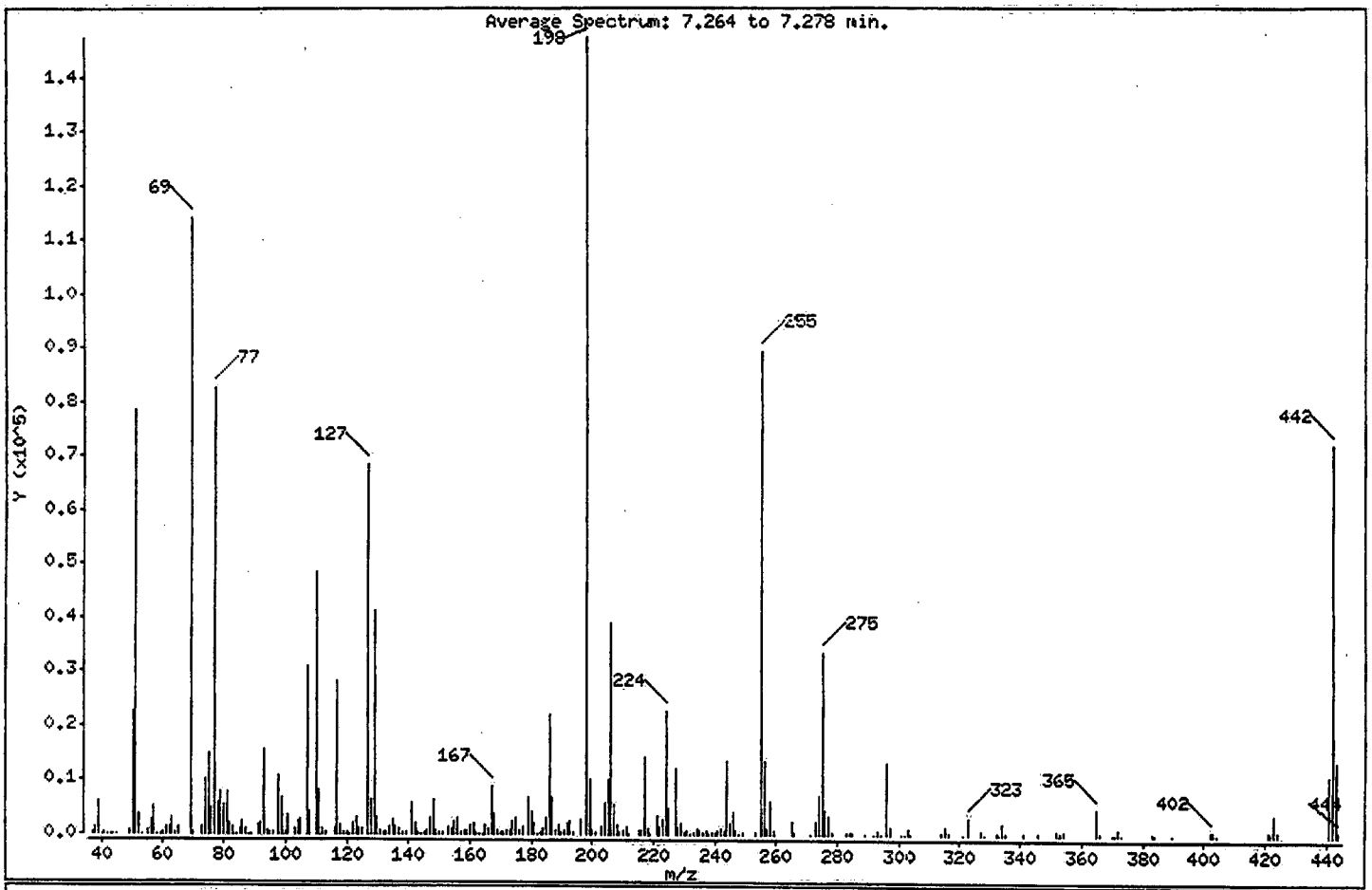
Sample Info: MDFT156

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.42
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	77.45
70	Less than 2.00% of mass 69	0.14 (0.18)
127	40.00 - 60.00% of mass 198	46.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	22.73
365	Greater than 1.00% of mass 198	3.21
441	0.01 - 100.00% of mass 443	7.41 (80.27)
442	40.00 - 110.00% of mass 198	49.02
443	17.00 - 23.00% of mass 442	9.23 (18.84)

Data File: /chem/BNAMS6.i/625/06-04-00/04jun00.b/m2153.d

Date : 04-JUN-2000 10:09

Client ID: Instrument: BNAMS6.i

Sample Info: MDFT156

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: m2153.d
Spectrum: Average Spectrum: 7.264 to 7.278 min.
Location of Maximum: 198.00
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	429	116.00	972	183.00	235	257.00	921
38.00	1446	117.00	28192	184.00	866	258.00	6254
39.00	6271	118.00	1695	185.00	3191	259.00	660
40.00	128	119.00	288	186.00	22128	265.00	2456
41.00	198	120.00	187	187.00	6884	266.00	243
42.00	101	121.00	75	188.00	804	271.00	70
43.00	118	122.00	2082	189.00	1665	273.00	2294
44.00	154	123.00	3038	190.00	251	274.00	7131
45.00	125	124.00	1064	191.00	827	275.00	33528
49.00	581	125.00	1109	192.00	2188	276.00	4288
50.00	22736	127.00	68616	193.00	2260	277.00	3331
51.00	78792	128.00	6605	194.00	403	278.00	288
52.00	3630	129.00	41512	196.00	2757	283.00	285
53.00	67	130.00	3121	198.00	147456	284.00	221
55.00	754	131.00	636	199.00	10154	285.00	373
56.00	2726	132.00	247	200.00	578	289.00	66
57.00	5085	133.00	293	201.00	182	292.00	104
58.00	91	134.00	1238	203.00	1453	293.00	663
59.00	112	135.00	2719	204.00	5739	294.00	73
60.00	368	136.00	1293	205.00	10194	296.00	13198
61.00	1256	137.00	1063	206.00	38864	297.00	1488
62.00	1403	138.00	366	207.00	5271	301.00	73
63.00	3057	139.00	189	208.00	1580	302.00	69
64.00	417	141.00	5686	209.00	463	303.00	1149
65.00	1215	142.00	1927	210.00	815	304.00	92
69.00	114232	143.00	445	211.00	1341	314.00	220
70.00	205	144.00	74	212.00	109	315.00	1255
73.00	1432	145.00	228	215.00	677	316.00	356
74.00	10202	146.00	768	216.00	794	321.00	140
75.00	14865	147.00	2895	217.00	14277	323.00	3170
76.00	4828	148.00	6464	218.00	1095	327.00	548
77.00	82712	149.00	812	219.00	77	328.00	98
78.00	5865	150.00	189	221.00	3255	332.00	173
79.00	7958	151.00	507	222.00	1314	333.00	152
80.00	5523	153.00	1387	223.00	2583	334.00	1914

Data File: /chem/BNAMS6.i/625/06-04-00/04jun00.b/m2153.d

Date : 04-JUN-2000 10:09

Client ID: Instrument: BNAMS6.i

Sample Info: MDFT156

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: m2153.d
Spectrum: Average Spectrum: 7.264 to 7.278 min.
Location of Maximum: 198.00
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7645	154.00	1159	224.00	22600	335.00	258
82.00	1902	155.00	2320	225.00	4786	341.00	325
83.00	1334	156.00	3136	227.00	12096	346.00	486
84.00	133	157.00	272	228.00	1518	352.00	775
85.00	1128	158.00	625	229.00	2087	353.00	458
86.00	2284	159.00	695	230.00	305	354.00	723
87.00	956	160.00	1563	231.00	574	365.00	4737
88.00	96	161.00	1936	232.00	98	366.00	188
89.00	68	162.00	369	233.00	374	370.00	90
91.00	1831	163.00	72	234.00	898	371.00	93
92.00	2142	164.00	97	235.00	613	372.00	1084
93.00	15471	165.00	1652	236.00	432	373.00	114
94.00	836	166.00	1034	237.00	786	383.00	320
95.00	179	167.00	8676	238.00	102	384.00	95
96.00	241	168.00	3803	239.00	455	390.00	86
98.00	10876	169.00	527	240.00	399	402.00	538
99.00	6866	170.00	212	241.00	581	403.00	538
100.00	390	171.00	242	242.00	1140	404.00	82
101.00	3407	172.00	823	243.00	545	421.00	687
103.00	1184	173.00	846	244.00	13566	422.00	442
104.00	2212	174.00	2447	245.00	1928	423.00	3876
105.00	2717	175.00	3019	246.00	4082	424.00	560
107.00	30904	176.00	659	247.00	642	441.00	10932
108.00	4128	177.00	1243	248.00	73	442.00	72296
110.00	48424	179.00	6663	249.00	242	443.00	13619
111.00	8257	180.00	4210	253.00	411	444.00	650
112.00	942	181.00	2036	255.00	89336		
113.00	248	182.00	167	256.00	13606		

Data File: /chem/BNAMS6.i/625/06-04-00/04jun00.b/m2153.d

Date : 04-JUN-2000 10:09

Client ID:

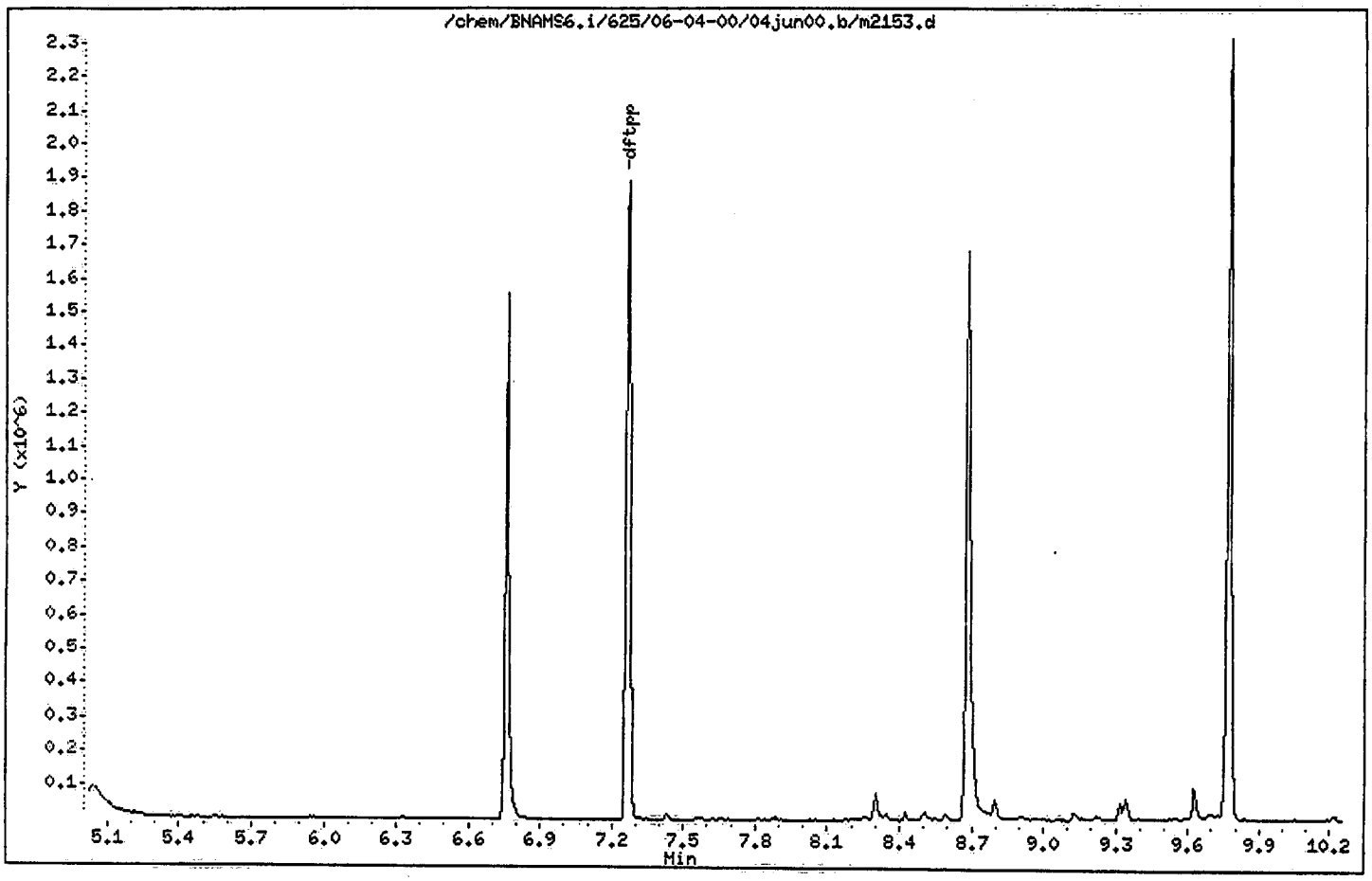
Instrument: BNAMS6.i

Sample Info: MDFT156

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: M2183

DFTPP Injection Date: 06/05/00

Instrument ID: BNAMS6

DFTPP Injection Time: 0942

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	74.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% 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 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.0% of mass 198	3.47
441	0.0 - 100.0% of mass 443	7.7 (83.8)2
442	40.0 - 110.0% of mass 198	47.5
443	17.0 - 23.0% of mass 442	9.2 (19.3)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	MSTD157	MSTD157	M2184	06/05/00	1013
02	SW-1	201478	M2199	06/05/00	2220
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2183.d

Date : 05-JUN-2000 09:42

Client ID:

Instrument: BNAMS6.i

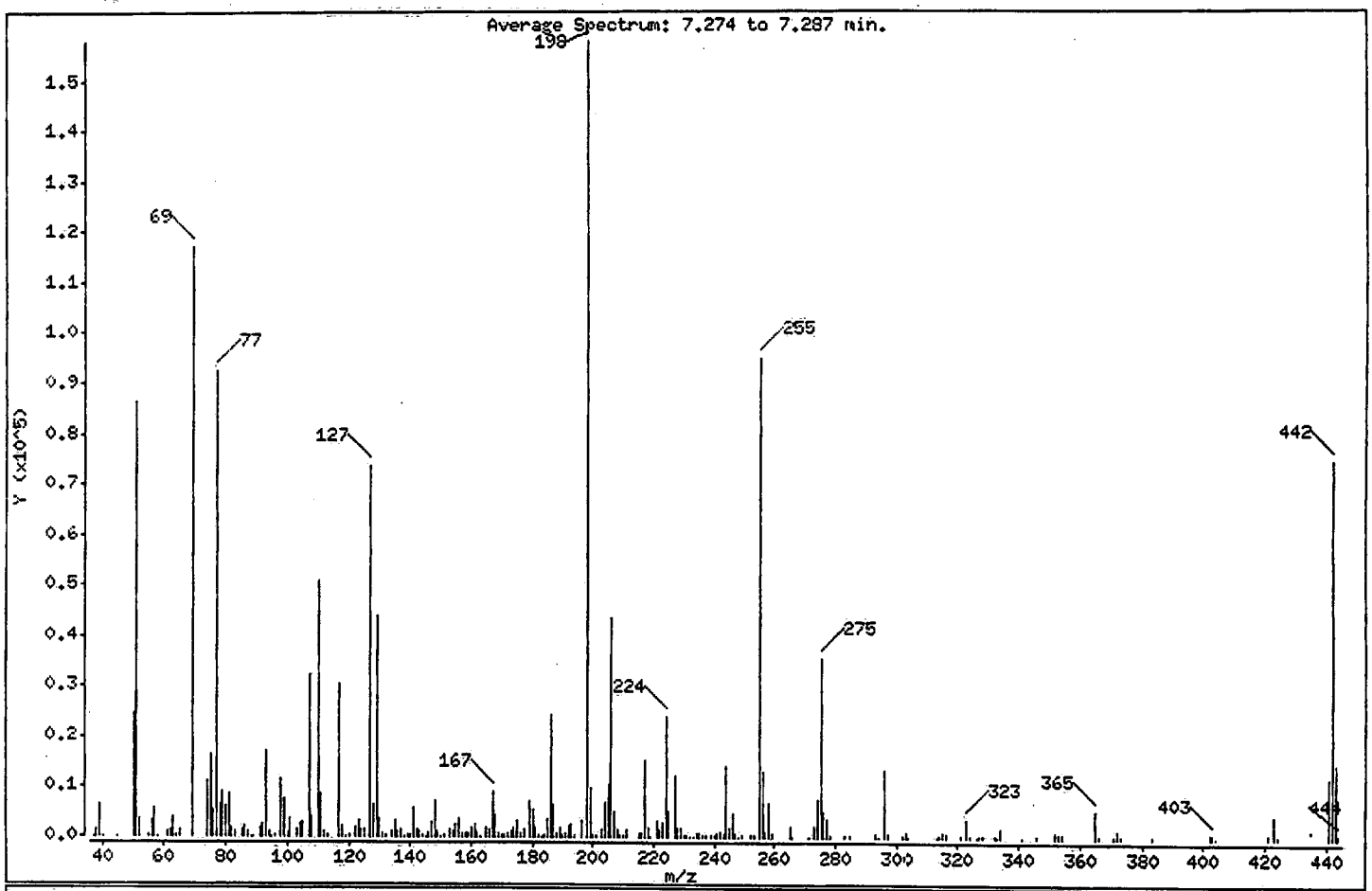
Sample Info: MDFT157

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.76
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	74.31
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.55
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 30.00% of mass 198	22.54
365	Greater than 1.00% of mass 198	3.47
441	0.01 - 100.00% of mass 443	7.67 (83.77)
442	40.00 - 110.00% of mass 198	47.45
443	17.00 - 23.00% of mass 442	9.16 (19.30)

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2183.d

Date : 05-JUN-2000 09:42

Client ID: Instrument: BNAMS6.i

Sample Info: MDFT157

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: m2183.d

Spectrum: Average Spectrum: 7.274 to 7.287 min.

Location of Maximum: 198.00

Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	92	124.00	1546	187.00	6619	257.00	1178
38.00	1279	125.00	1293	188.00	732	258.00	6919
39.00	6669	127.00	73480	189.00	1637	259.00	851
40.00	158	128.00	6689	190.00	329	265.00	2152
45.00	87	129.00	44016	191.00	698	266.00	96
50.00	24624	130.00	3464	192.00	2140	271.00	160
51.00	86448	131.00	568	193.00	2410	273.00	2300
52.00	3758	132.00	276	194.00	418	274.00	7459
55.00	363	134.00	933	196.00	3218	275.00	35576
56.00	3315	135.00	3121	198.00	157824	276.00	5015
57.00	5809	136.00	1110	199.00	9778	277.00	3619
58.00	134	137.00	1351	200.00	439	278.00	342
61.00	996	138.00	91	201.00	238	283.00	205
62.00	1466	139.00	339	203.00	1466	285.00	268
63.00	3826	140.00	330	204.00	6846	293.00	631
64.00	486	141.00	5730	205.00	10491	294.00	145
65.00	1448	142.00	1439	206.00	43504	296.00	13251
69.00	117304	143.00	968	207.00	5213	297.00	882
74.00	11281	144.00	242	208.00	1518	302.00	290
75.00	16432	145.00	114	209.00	481	303.00	1257
76.00	5584	146.00	799	210.00	459	304.00	147
77.00	92512	147.00	2833	211.00	1551	313.00	83
78.00	6660	148.00	7096	215.00	546	314.00	333
79.00	8940	149.00	1037	216.00	642	315.00	1207
80.00	6066	150.00	123	217.00	15077	316.00	556
81.00	8814	151.00	508	218.00	1710	321.00	307
82.00	1904	153.00	1462	219.00	163	323.00	3760
83.00	1218	154.00	1219	221.00	3272	324.00	510
85.00	1467	155.00	2644	222.00	1467	326.00	167
86.00	2119	156.00	3514	223.00	2945	327.00	449
87.00	1241	157.00	610	224.00	23896	328.00	231
88.00	177	158.00	866	225.00	5014	332.00	268
89.00	81	159.00	591	227.00	12416	333.00	166
91.00	1937	160.00	1741	228.00	1709	334.00	1923
92.00	2599	161.00	2360	229.00	1931	341.00	173

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2183.d

Date : 05-JUN-2000 09:42

Client ID: Instrument: BNAMS6.i

Sample Info: MDFT157

Operator: BNA2

Column phase: DB-5 Column diameter: 0.25

Data File: m2183.d

Spectrum: Average Spectrum: 7.274 to 7.287 min.

Location of Maximum: 198.00

Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	16904	162.00	583	230.00	206	346.00	446
94.00	1150	163.00	109	231.00	459	352.00	924
95.00	139	165.00	1795	232.00	68	353.00	698
96.00	299	166.00	1529	233.00	103	354.00	769
98.00	11514	167.00	8949	234.00	640	365.00	5481
99.00	7495	168.00	4273	235.00	674	366.00	344
100.00	906	169.00	560	236.00	421	371.00	190
101.00	3758	170.00	249	237.00	464	372.00	1568
103.00	1314	171.00	455	239.00	380	373.00	275
104.00	2681	172.00	834	240.00	413	383.00	282
105.00	2843	173.00	1052	241.00	610	402.00	585
107.00	32272	174.00	1752	242.00	953	403.00	665
108.00	4040	175.00	3121	243.00	888	404.00	78
110.00	50944	176.00	807	244.00	14236	421.00	636
111.00	8760	177.00	1556	245.00	1900	423.00	4185
112.00	1122	179.00	7174	246.00	4712	424.00	479
113.00	288	180.00	5286	247.00	744	441.00	12110
117.00	30432	181.00	1813	248.00	80	442.00	74912
118.00	2062	182.00	292	249.00	238	443.00	14456
119.00	175	183.00	92	252.00	190	444.00	855
120.00	282	184.00	485	253.00	438		
122.00	1919	185.00	3646	255.00	94928		
123.00	3254	186.00	24128	256.00	12883		

Data File: /chem/BNAMS6.i/625/06-04-00/05jun00.b/m2183.d

Date : 05-JUN-2000 09:42

Client ID:

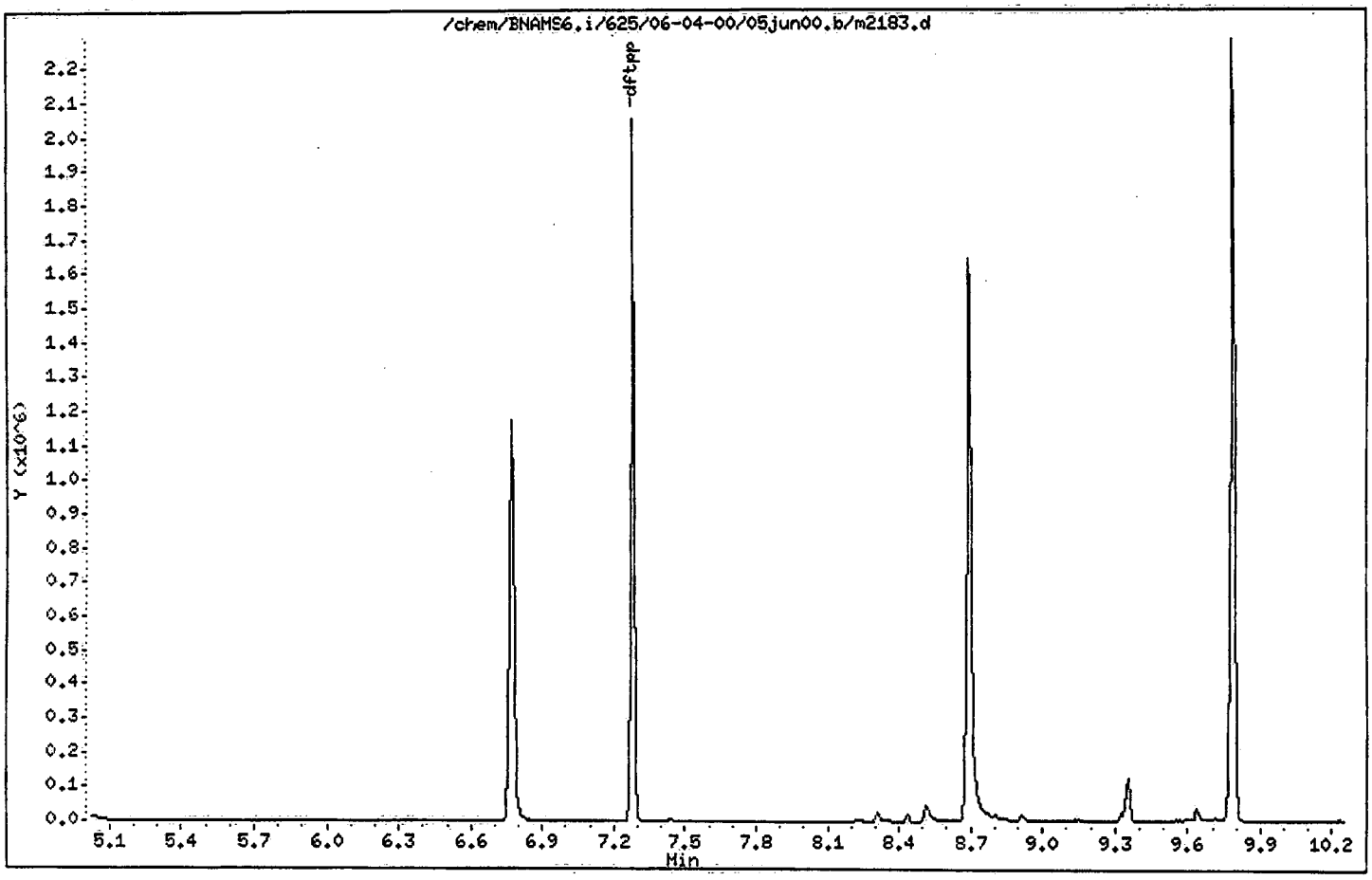
Instrument: BNAMS6.i

Sample Info: MDFT157

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



LAB SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

WB124

Matrix: WATER

Date Analyzed: 05/04/00

Level: LOW

Time Analyzed: 1859

Instrument ID: BNAMS3

Lab File ID: T1200

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

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	SW-1	201478	M2199	06/05/00
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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30				

COMMENTS:

Client ID: **WB124**
Site:

Lab Sample No: **WB124**
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Extracted: 05/03/00
Date Analyzed: 05/04/00
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t1200.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Phenol	ND	1.0
2-Chlorophenol	ND	1.9
2-Methylphenol	ND	2.0
4-Methylphenol	ND	1.9
2-Nitrophenol	ND	1.7
2,4-Dimethylphenol	ND	1.3
2,4-Dichlorophenol	ND	1.3
4-Chloro-3-methylphenol	ND	1.9
2,4,6-Trichlorophenol	ND	0.6
2,4,5-Trichlorophenol	ND	0.6
2,4-Dinitrophenol	ND	1.1
4-Nitrophenol	ND	1.0
4,6-Dinitro-2-methylphenol	ND	1.3
Pentachlorophenol	ND	1.6
Benzoic Acid	ND	2.8
N-Nitrosodimethylamine	ND	0.5
bis(2-Chloroethyl)ether	ND	1.1
1,3-Dichlorobenzene	ND	0.6
1,4-Dichlorobenzene	ND	0.6
1,2-Dichlorobenzene	ND	0.6
bis(2-chloroisopropyl)ether	ND	1.1
N-Nitroso-di-n-propylamine	ND	0.8
Hexachloroethane	ND	0.7
Nitrobenzene	ND	0.8
Isophorone	ND	0.9
bis(2-Chloroethoxy)methane	ND	0.9
1,2,4-Trichlorobenzene	ND	0.6
Naphthalene	ND	0.8
4-Chloroaniline	ND	0.8
Hexachlorobutadiene	ND	0.6
2-Methylnaphthalene	ND	0.6
Hexachlorocyclopentadiene	ND	0.9
2-Chloronaphthalene	ND	0.8
2-Nitroaniline	ND	0.7

Client ID: **WB124**
Site:

Lab Sample No: **WB124**
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Extracted: 05/03/00
Date Analyzed: 05/04/00
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t1200.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.5
2,6-Dinitrotoluene	ND	0.7
3-Nitroaniline	ND	0.4
Acenaphthene	ND	0.6
Dibenzofuran	ND	0.4
2,4-Dinitrotoluene	ND	0.6
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.5
Fluorene	ND	0.7
4-Nitroaniline	ND	0.6
N-Nitrosodiphenylamine	ND	0.6
4-Bromophenyl-phenylether	ND	1.2
Hexachlorobenzene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.3
Carbazole	ND	0.6
Di-n-butylphthalate	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.6
Benzidine	ND	13
Butylbenzylphthalate	ND	0.7
3,3'-Dichlorobenzidine	ND	4.7
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.6
bis(2-Ethylhexyl)phthalate	ND	2.0
Di-n-octylphthalate	ND	0.3
Benzo(b)fluoranthene	ND	0.4
Benzo(k)fluoranthene	ND	0.6
Benzo(a)pyrene	ND	0.2
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.3
Benzo(g,h,i)perylene	ND	0.4
Pyridine	ND	0.6

Client ID: **WB124**
Site:

Lab Sample No: **WB124**
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Extracted: 05/03/00
Date Analyzed: 05/04/00
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t1200.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection Limit Units: ug/l
Aniline	ND	1.0
Benzyl Alcohol	ND	0.8
1,2-Diphenylhydrazine	ND	0.5
Diphenyl	ND	0.7
Diphenyl Ether	ND	10
Acetophenone	ND	1.0
N,N-Dimethylaniline	ND	0.7
1,4-Dioxane	ND	0.6
2,3,7,8-TCDD (screen)	ND	1.0
Benzaldehyde	ND	1.8
Caprolactum	ND	0.2
Atrazine	ND	1.0

Client ID: **WB124**
Site:

Lab Sample No: **WB124**
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Extracted: 05/03/00
Date Analyzed: 05/04/00
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t1200.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
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.			

TOTAL ESTIMATED CONCENTRATION 0.0

Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1200.d
Report Date: 05-May-2000 11:36

STL Envirotech

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS3.i/625/05-04-00/04may00.b/t1200.d
Lab Smp Id: WB124 Client Smp ID: BNA
Inj Date : 04-MAY-2000 18:59
Operator : BNAMS 1 Inst ID: BNAMS3.i
Smp Info : WB124;1000;2;1;;
Misc Info : ;BNA;;;
Comment :
Method : /chem/BNAMS3.i/625/05-04-00/04may00.b/BNA625b.m
Meth Date : 05-May-2000 11:11 lily Quant Type: ISTD
Cal Date : 04-MAY-2000 13:55 Cal File: t1195.d
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)

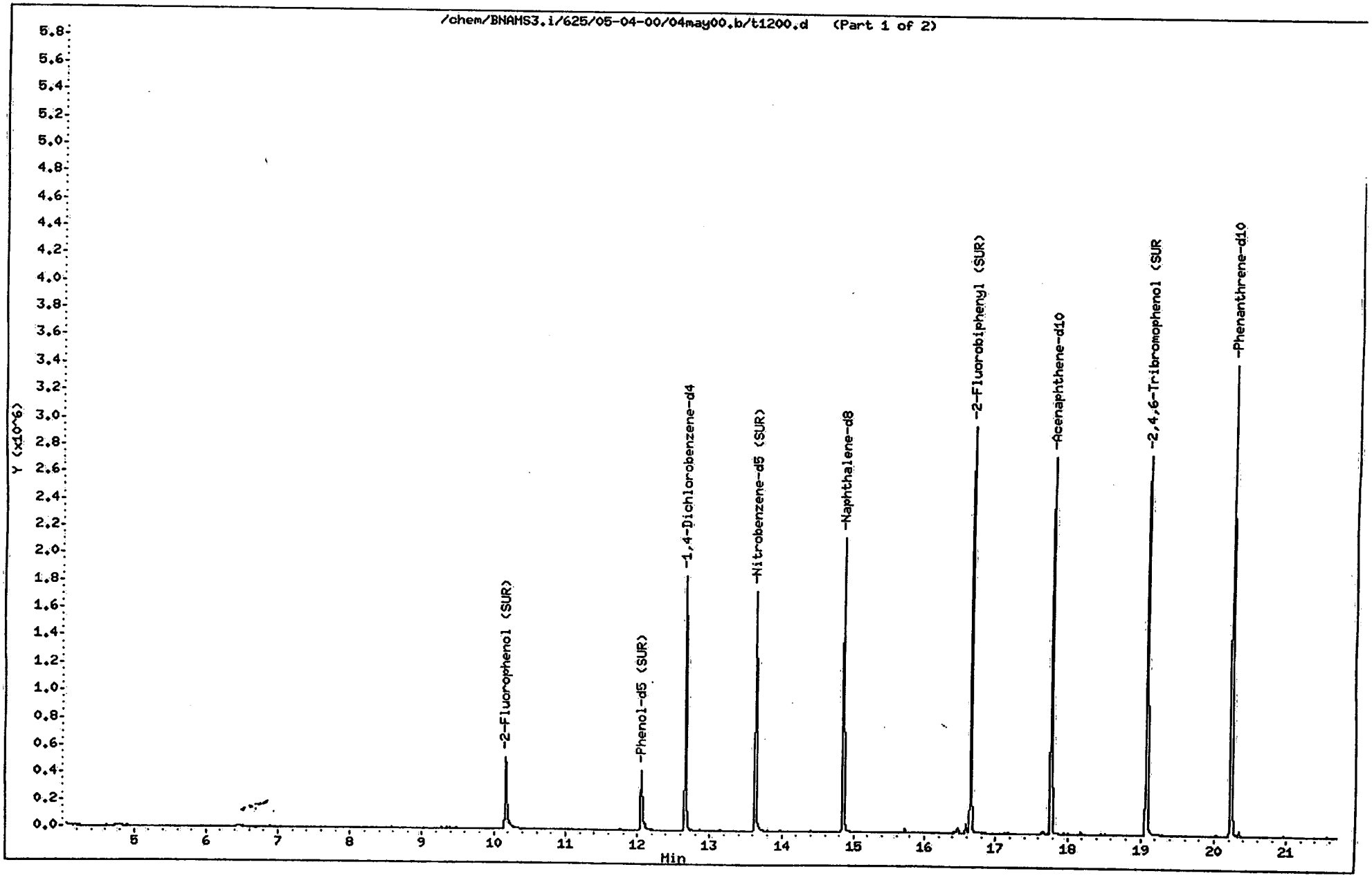
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 16 2-Fluorophenol (SUR)	112	10.162	10.164	(0.803)	126734	22.1053	44
$ 17 Phenol-d5 (SUR)	99	12.055	12.051	(0.952)	113879	11.9934	24
* 79 1,4-Dichlorobenzene-d4	152	12.660	12.658	(1.000)	201119	40.0000	
$ 76 Nitrobenzene-d5 (SUR)	82	13.640	13.634	(0.918)	755432	42.8998	86
* 80 Naphthalene-d8	136	14.856	14.855	(1.000)	716118	40.0000	
$ 77 2-Fluorobiphenyl (SUR)	172	16.650	16.651	(0.937)	824096	35.9724	72
* 82 Acenaphthene-d10	164	17.775	17.781	(1.000)	628585	40.0000	
$ 18 2,4,6-Tribromophenol (SUR)	330	19.077	19.079	(1.073)	321726	48.9614	98
* 83 Phenanthrene-d10	188	20.235	20.236	(1.000)	1623317	40.0000	
$ 78 Terphenyl-d14 (SUR)	244	22.845	22.841	(0.929)	2389014	52.5839	100
* 81 Chrysene-d12	240	24.597	24.604	(1.000)	1881219	40.0000	
* 84 Perylene-d12	264	27.753	27.761	(1.000)	1509666	40.0000	

Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1200.d
Date : 04-MAY-2000 18:59
Client ID: BNA
Sample Info: WB124;1000;2;1;;
Purge Volume: 1000.0
Column phase: DB-5

Instrument: BNAMS3.i

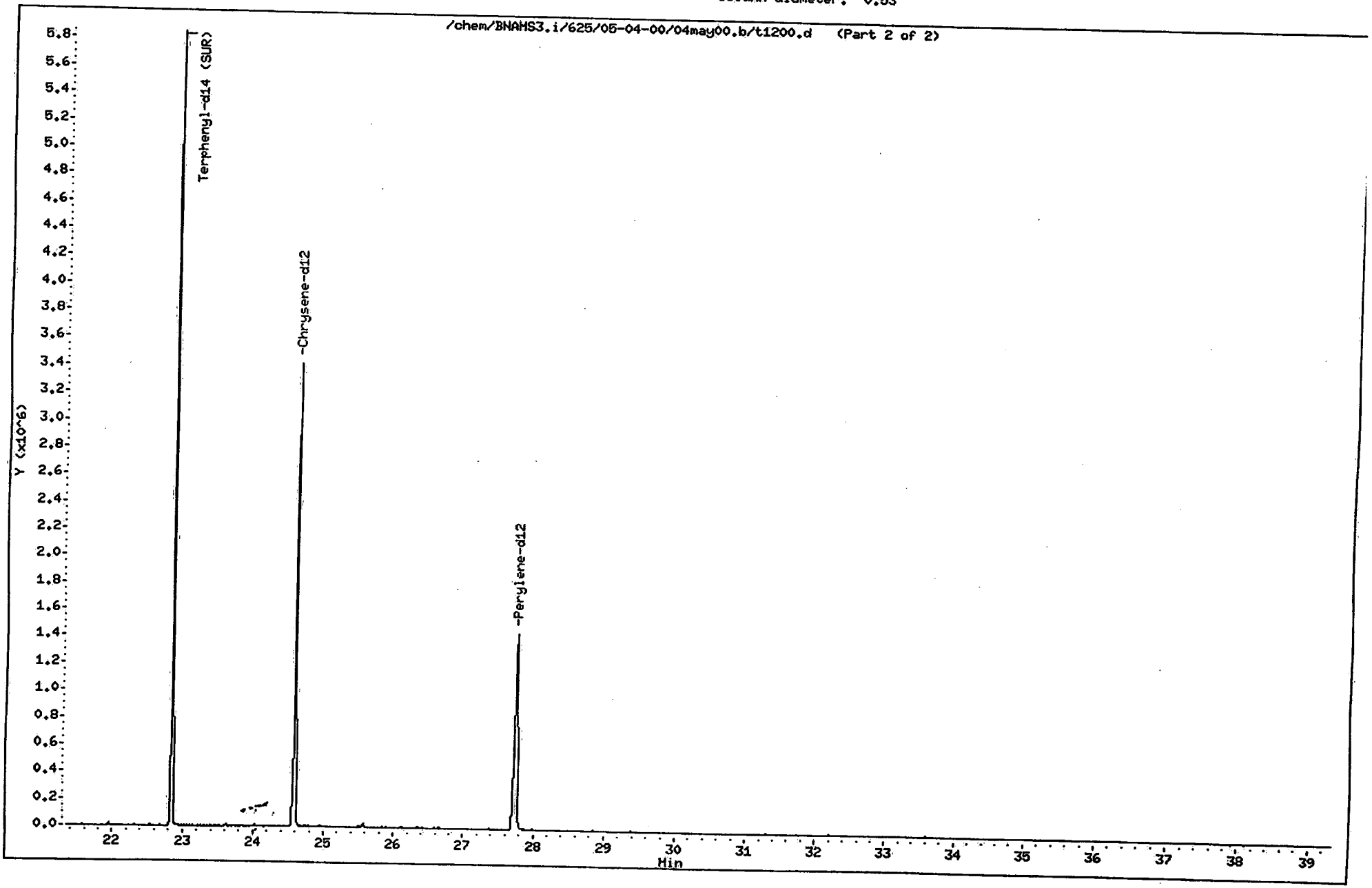
Operator: BNAMS 1
Column diameter: 0.53



Data File: /chem/BNAMS3.i/625/05-04-00/04may00.b/t1200.d
Date : 04-MAY-2000 18:59
Client ID: BNA
Sample Info: WB124;1000;2;1;;
Purge Volume: 1000.0
Column phase: DB-5

Instrument: BNAMS3.i

Operator: BNAMS 1
Column diameter: 0.53



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 625

Instrument ID: BNAMS3 Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

LAB FILE ID: RRF10: T1194 RRF20: T1195 RRF50: T1190
RRF80: T1192 RRF120: T1191

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Phenol	1.741	1.890	2.077	2.325	2.464
2-Chlorophenol	0.917	0.932	1.039	1.159	1.238
2-Methylphenol	1.183	1.175	1.436	1.615	1.773
4-Methylphenol	1.200	1.216	1.716	2.194	2.414
2-Nitrophenol	0.181	0.203	0.217	0.233	0.242
2,4-Dimethylphenol	0.281	0.314	0.343	0.380	0.412
2,4-Dichlorophenol	0.339	0.363	0.424	0.484	0.515
4-Chloro-3-methylphenol	0.529	0.563	0.608	0.576	0.580
2,4,6-Trichlorophenol	0.456	0.470	0.552	0.604	0.599
2,4,5-Trichlorophenol	0.413	0.471	0.552	0.611	0.620
2,4-Dinitrophenol	0.093	0.152	0.211	0.228	0.238
4-Nitrophenol	0.425	0.526	0.561	0.562	0.526
4,6-Dinitro-2-methylphenol	0.104	0.129	0.135	0.146	0.158
Pentachlorophenol	0.105	0.133	0.159	0.173	0.177
Benzoic Acid	0.058	0.120	0.088	0.060	0.108
N-Nitrosodimethylamine	0.618	0.599	0.798	0.845	0.899
bis(2-Chloroethyl)ether	1.405	1.449	1.492	1.536	1.622
1,3-Dichlorobenzene	1.282	1.266	1.423	1.546	1.650
1,4-Dichlorobenzene	1.176	1.264	1.358	1.550	1.702
1,2-Dichlorobenzene	1.122	1.172	1.340	1.686	2.048
bis(2-chloroisopropyl)ether	2.288	2.448	2.405	2.548	2.620
N-Nitroso-di-n-propylamine	1.959	1.921	1.972	2.017	1.900
Hexachloroethane	0.991	1.008	1.040	1.055	1.066
Nitrobenzene	1.253	1.337	1.303	1.309	1.291
Isophorone	1.485	1.523	1.504	1.493	1.423
bis(2-Chloroethoxy)methane	0.610	0.600	0.642	0.706	0.720
1,2,4-Trichlorobenzene	0.480	0.528	0.540	0.567	0.591
Naphthalene	0.854	0.896	1.078	1.271	1.468
4-Chloroaniline	0.335	0.332	0.401	0.436	0.485
Hexachlorobutadiene	0.561	0.553	0.539	0.540	0.521
2-Methylnaphthalene	0.702	0.699	0.859	0.977	1.105
Hexachlorocyclopentadiene	0.137	0.237	0.314	0.322	0.356
2-Chloronaphthalene	0.900	0.935	1.100	1.247	1.379
2-Nitroaniline	0.683	0.688	0.691	0.720	0.685
Dimethylphthalate	1.505	1.591	1.745	1.821	1.847
Acenaphthylene	1.265	1.290	1.602	1.795	1.948
2,6-Dinitrotoluene	0.278	0.295	0.348	0.397	0.395
3-Nitroaniline	0.184	0.212	0.262	0.275	0.286
Acenaphthene	0.807	0.858	1.097	1.290	1.428

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS3 Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

LAB FILE ID: RRF10: T1194 RRF20: T1195 RRF50: T1190
RRF80: T1192 RRF120: T1191

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.414	1.475	1.808	2.209	2.462
2,4-Dinitrotoluene	0.387	0.447	0.541	0.642	0.726
Diethylphthalate	1.772	1.893	2.085	2.235	2.258
4-Chlorophenyl-phenylether	0.855	0.914	1.098	1.207	1.216
Fluorene	1.195	1.293	1.643	2.000	2.179
4-Nitroaniline	0.192	0.180	0.227	0.213	0.231
N-Nitrosodiphenylamine	0.320	0.327	0.372	0.433	0.478
4-Bromophenyl-phenylether	0.224	0.230	0.233	0.256	0.259
Hexachlorobenzene	0.268	0.278	0.284	0.302	0.316
Phenanthrene	0.721	0.784	0.929	1.064	1.190
Anthracene	0.771	0.795	0.930	1.068	1.167
Carbazole	0.609	0.650	0.699	0.710	0.768
Di-n-butylphthalate	1.178	1.247	1.346	1.522	1.578
Fluoranthene	1.204	1.305	1.371	1.438	1.497
Pyrene	1.136	1.143	1.204	1.166	1.165
Benzidine	0.273	0.238	0.175	0.078	0.039
Butylbenzylphthalate	0.549	0.575	0.615	0.616	0.618
3,3'-Dichlorobenzidine	0.386	0.428	0.399	0.330	0.251
Benzo(a)anthracene	1.088	1.109	1.179	1.193	1.179
Chrysene	0.926	0.974	1.036	1.029	1.032
bis(2-Ethylhexyl)phthalate	0.767	0.803	0.950	1.096	1.116
Di-n-octylphthalate	1.527	1.514	1.755	1.934	2.086
Benzo(b)fluoranthene	1.152	1.209	1.332	1.406	1.619
Benzo(k)fluoranthene	1.155	1.176	1.257	1.314	1.174
Benzo(a)pyrene	1.064	1.092	1.192	1.213	1.284
Indeno(1,2,3-cd)pyrene	0.996	1.007	1.153	1.253	1.277
Dibenz(a,h)anthracene	0.965	1.001	1.123	1.212	1.361
Benzo(g,h,i)perylene	1.078	1.094	1.164	1.194	1.255
Pyridine	0.939	0.807	1.070	1.100	1.151
Aniline	1.703	1.988	2.101	2.182	2.353
Benzyl Alcohol	0.838	0.898	1.053	1.261	1.376
1,2-Diphenylhydrazine	1.032	0.987	0.961	1.005	1.007
Diphenyl	1.090	1.130	1.427	1.709	1.950
Diphenyl Ether	0.697	0.711	0.880	1.000	1.108
Acetophenone	2.450	2.508	2.918	3.130	3.204
N,N-Dimethylaniline	1.723	1.772	2.172	2.508	2.709
1,4-Dioxane	0.356	0.375	0.448	0.451	0.452
2,3,7,8-TCDD (screen)			0.161		
Benzaldehyde	1.678	0.958	1.155	0.944	0.352

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS3

Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

LAB FILE ID: RRF10: T1194 RRF20: T1195 RRF50: T1190
RRF80: T1192 RRF120: T1191

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Caprolactum	0.150	0.156	0.174	0.141	0.152
Atrazine	0.252	0.245	0.214	0.170	0.185
2-Fluorophenol (SUR)	0.912	1.001	1.156	1.269	1.363
Phenol-d5 (SUR)	1.447	1.618	1.849	2.141	2.387
2,4,6-Tribromophenol (SUR)	0.376	0.383	0.441	0.444	0.446
Nitrobenzene-d5 (SUR)	0.963	0.995	0.988	0.992	0.980
2-Fluorobiphenyl (SUR)	1.193	1.229	1.448	1.647	1.772
Terphenyl-d14 (SUR)	0.984	0.985	0.998	0.955	0.908

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS3 Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	2.09940062	14.2*
2-Chlorophenol	AVRG	1.05713088	13.3*
2-Methylphenol	AVRG	1.43639210	18.3*
4-Methylphenol	AVRG	1.74790282	31.7*
2-Nitrophenol	AVRG	0.21516355	11.2*
2,4-Dimethylphenol	AVRG	0.34578975	14.9*
2,4-Dichlorophenol	AVRG	0.42500416	17.8*
4-Chloro-3-methylphenol	AVRG	0.57136183	5.0*
2,4,6-Trichlorophenol	AVRG	0.53624511	13.1*
2,4,5-Trichlorophenol	AVRG	0.53313063	16.8*
2,4-Dinitrophenol	AVRG	0.18435945	33.1**
4-Nitrophenol	AVRG	0.52014277	10.8**
4,6-Dinitro-2-methylphenol	AVRG	0.13447338	15.1*
Pentachlorophenol	AVRG	0.14943444	20.2*
Benzoic Acid	AVRG	0.08706036	32.1*
N-Nitrosodimethylamine	AVRG	0.75181248	18.1**
bis(2-Chloroethyl)ether	AVRG	1.50093112	5.5*
1,3-Dichlorobenzene	AVRG	1.43367266	11.6*
1,4-Dichlorobenzene	AVRG	1.40991386	15.2*
1,2-Dichlorobenzene	AVRG	1.47370543	26.4*
bis(2-chloroisopropyl)ether	AVRG	2.46176396	5.2*
N-Nitroso-di-n-propylamine	AVRG	1.95404371	2.3**
Hexachloroethane	AVRG	1.03201268	3.1*
Nitrobenzene	AVRG	1.29879339	2.4*
Isophorone	AVRG	1.48543141	2.6*
bis(2-Chloroethoxy)methane	AVRG	0.65568279	8.4*
1,2,4-Trichlorobenzene	AVRG	0.54126492	7.8*
Naphthalene	AVRG	1.11348183	23.2*
4-Chloroaniline	AVRG	0.39820138	16.5*
Hexachlorobutadiene	AVRG	0.54283328	2.8*
2-Methylnaphthalene	AVRG	0.86844443	20.3*
Hexachlorocyclopentadiene	AVRG	0.27350010	32.1**
2-Chloronaphthalene	AVRG	1.11242861	18.3*
2-Nitroaniline	AVRG	0.69363124	2.2*
Dimethylphthalate	AVRG	1.70191220	8.7*
Acenaphthylene	AVRG	1.58002434	19.1*
2,6-Dinitrotoluene	AVRG	0.34262771	16.1*
3-Nitroaniline	AVRG	0.24382493	17.9*
Acenaphthene	AVRG	1.09598887	24.5*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS3 Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.87365248	24.4*
2,4-Dinitrotoluene	AVRG	0.54856826	25.2*
Diethylphthalate	AVRG	2.04880216	10.4*
4-Chlorophenyl-phenylether	AVRG	1.05803027	15.7*
Fluorene	AVRG	1.66182887	25.8*
4-Nitroaniline	AVRG	0.20872693	10.5*
N-Nitrosodiphenylamine	AVRG	0.38610993	17.7*
4-Bromophenyl-phenylether	AVRG	0.24066605	6.6*
Hexachlorobenzene	AVRG	0.28956099	6.5*
Phenanthrene	AVRG	0.93763536	20.7*
Anthracene	AVRG	0.94637243	18.1*
Carbazole	AVRG	0.68718452	8.8*
Di-n-butylphthalate	AVRG	1.37410541	12.5*
Fluoranthene	AVRG	1.36306638	8.4*
Pyrene	AVRG	1.16287611	2.3*
Benzidine	AVRG	0.16072354	62.7*
Butylbenzylphthalate	AVRG	0.59453224	5.2*
3,3'-Dichlorobenzidine	AVRG	0.35873087	19.5*
Benzo(a)anthracene	AVRG	1.14974625	4.1*
Chrysene	AVRG	0.99956543	4.8*
bis(2-Ethylhexyl)phthalate	AVRG	0.94630262	17.0*
Di-n-octylphthalate	AVRG	1.76324759	14.2*
Benzo(b)fluoranthene	AVRG	1.34355126	13.6*
Benzo(k)fluoranthene	AVRG	1.21519289	5.6*
Benzo(a)pyrene	AVRG	1.16906375	7.7*
Indeno(1,2,3-cd)pyrene	AVRG	1.13718415	11.6*
Dibenz(a,h)anthracene	AVRG	1.13242852	14.2*
Benzo(g,h,i)perylene	AVRG	1.15715513	6.3*
Pyridine	AVRG	1.01374879	13.8*
Aniline	AVRG	2.06530766	11.7*
Benzyl Alcohol	AVRG	1.08546609	21.2*
1,2-Diphenylhydrazine	AVRG	0.99836731	2.7*
Diphenyl	AVRG	1.46119873	25.3**
Diphenyl Ether	AVRG	0.87928042	20.4**
Acetophenone	AVRG	2.84195656	12.2**
N,N-Dimethylaniline	AVRG	2.17701419	20.0**
1,4-Dioxane	AVRG	0.41620065	11.3**
2,3,7,8-TCDD (screen)	AVRG	0.16094996	0.0*
Benzaldehyde	AVRG	1.01737777	46.8*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS3

Calibration Date(s): 05/04/00 05/04/00

Calibration Time(s): 0928 1355

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactum	AVRG	0.15454884	8.0*
Atrazine	AVRG	0.21323776	16.9*
2-Fluorophenol (SUR)	AVRG	1.14026048	16.3*
Phenol-d5 (SUR)	AVRG	1.88845908	20.2*
2,4,6-Tribromophenol (SUR)	AVRG	0.41814618	8.4*
Nitrobenzene-d5 (SUR)	AVRG	0.98359307	1.3*
2-Fluorobiphenyl (SUR)	AVRG	1.45782332	17.4*
Terphenyl-d14 (SUR)	AVRG	0.96602035	3.7*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 625

Instrument ID: BNAMS6 Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

LAB FILE ID: RRF10: M2156 RRF20: M2158 RRF50: M2154
RRF80: M2157 RRF120: M2155

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Phenol	2.217	2.191	1.991	1.764	1.815
2-Chlorophenol	1.454	1.423	1.263	1.161	1.115
2-Methylphenol	1.540	1.523	1.382	1.258	1.227
4-Methylphenol	1.550	1.452	1.232	1.295	1.486
2-Nitrophenol	0.290	0.284	0.257	0.235	0.210
2,4-Dimethylphenol	0.398	0.374	0.330	0.307	0.286
2,4-Dichlorophenol	0.397	0.397	0.348	0.343	0.355
4-Chloro-3-methylphenol	0.634	0.610	0.569	0.556	0.516
2,4,6-Trichlorophenol	0.515	0.513	0.480	0.462	0.480
2,4,5-Trichlorophenol	0.558	0.566	0.523	0.499	0.493
2,4-Dinitrophenol	0.214	0.270	0.274	0.252	0.257
4-Nitrophenol	0.580	0.579	0.640	0.550	0.581
4,6-Dinitro-2-methylphenol	0.169	0.178	0.171	0.167	0.160
Pentachlorophenol	0.157	0.177	0.177	0.185	0.194
Benzoic Acid	0.190	0.251	0.280	0.276	0.231
N-Nitrosodimethylamine	0.994	1.083	1.235	1.094	1.037
bis(2-Chloroethyl)ether	1.799	1.738	1.668	1.498	1.425
1,3-Dichlorobenzene	1.603	1.530	1.346	1.218	1.236
1,4-Dichlorobenzene	1.578	1.510	1.348	1.250	1.257
1,2-Dichlorobenzene	1.503	1.473	1.314	1.214	1.152
bis(2-chloroisopropyl)ether	2.505	2.415	2.337	1.974	1.820
N-Nitroso-di-n-propylamine	1.689	1.601	1.524	1.480	1.545
Hexachloroethane	0.829	0.832	0.813	0.750	0.737
Nitrobenzene	1.079	1.066	1.068	1.028	1.033
Isophorone	1.442	1.390	1.416	1.307	1.329
bis(2-Chloroethoxy)methane	0.674	0.631	0.590	0.542	0.530
1,2,4-Trichlorobenzene	0.450	0.412	0.383	0.370	0.376
Naphthalene	1.266	1.137	1.012	0.999	1.070
4-Chloroaniline	0.501	0.480	0.439	0.388	0.370
Hexachlorobutadiene	0.363	0.371	0.346	0.343	0.342
2-Methylnaphthalene	0.850	0.774	0.700	0.704	0.768
Hexachlorocyclopentadiene	0.395	0.346	0.544	0.430	0.476
2-Chloronaphthalene	1.286	1.196	1.116	1.062	1.112
2-Nitroaniline	0.798	0.783	0.782	0.659	0.630
Dimethylphthalate	1.885	1.831	1.687	1.550	1.562
Acenaphthylene	1.978	1.840	1.735	1.592	1.700
2,6-Dinitrotoluene	0.430	0.419	0.396	0.356	0.341
3-Nitroaniline	0.411	0.420	0.437	0.359	0.344
Acenaphthene	1.248	1.155	1.094	1.090	1.207

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS6

Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

LAB FILE ID: RRF10: M2156 RRF20: M2158 RRF50: M2154
RRF80: M2157 RRF120: M2155

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.735	1.640	1.504	1.416	1.517
2,4-Dinitrotoluene	0.588	0.592	0.572	0.499	0.492
Diethylphthalate	2.176	2.088	2.017	1.853	1.911
4-Chlorophenyl-phenylether	0.837	0.783	0.782	0.780	0.880
Fluorene	1.405	1.281	1.246	1.280	1.500
4-Nitroaniline	0.413	0.407	0.418	0.345	0.332
N-Nitrosodiphenylamine	0.510	0.465	0.435	0.424	0.454
4-Bromophenyl-phenylether	0.239	0.235	0.228	0.231	0.245
Hexachlorobenzene	0.301	0.300	0.301	0.307	0.323
Phenanthrene	1.048	0.946	0.950	0.967	1.072
Anthracene	1.124	0.971	0.979	0.980	1.102
Carbazole	0.975	0.862	0.798	0.697	0.729
Di-n-butylphthalate	1.737	1.629	1.604	1.588	1.749
Fluoranthene	1.269	1.192	1.184	1.177	1.304
Pyrene	1.219	1.086	1.061	1.069	1.135
Benzidine	0.390	0.277	0.355	0.178	0.123
Butylbenzylphthalate	0.842	0.755	0.722	0.694	0.713
3,3'-Dichlorobenzidine	0.428	0.415	0.449	0.403	0.366
Benzo(a)anthracene	1.049	0.966	0.996	1.003	1.058
Chrysene	1.032	0.949	0.990	0.966	1.026
bis(2-Ethylhexyl)phthalate	1.128	0.956	1.024	1.047	1.185
Di-n-octylphthalate	2.072	1.910	1.881	1.867	1.989
Benzo(b)fluoranthene	1.150	1.142	1.176	1.271	1.384
Benzo(k)fluoranthene	1.262	1.199	1.260	1.316	1.185
Benzo(a)pyrene	1.095	1.141	1.161	1.184	1.197
Indeno(1,2,3-cd)pyrene	0.902	0.964	1.124	1.150	1.252
Dibenz(a,h)anthracene	1.016	0.997	1.080	1.086	1.116
Benzo(g,h,i)perylene	1.054	1.121	1.228	1.238	1.229
Pyridine	1.654	1.706	1.835	1.589	1.725
Aniline	2.243	2.316	2.333	1.861	1.838
Benzyl Alcohol	1.089	1.059	1.048	0.938	0.935
1,2-Diphenylhydrazine	1.328	1.212	1.223	1.114	1.144
Diphenyl	1.575	1.475	1.298	1.334	1.551
Diphenyl Ether	0.933	0.890	0.813	0.772	0.827
Acetophenone	2.848	2.546	2.275	2.332	2.568
N,N-Dimethylaniline	2.015	1.752	1.644	1.592	1.710
1,4-Dioxane					
2,3,7,8-TCDD (screen)			0.075		
Benzaldehyde	1.700	1.787	1.268	0.846	0.621

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS6 Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

LAB FILE ID: RRF10: M2156 RRF20: M2158 RRF50: M2154
RRF80: M2157 RRF120: M2155

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Caprolactum	0.201	0.210	0.212	0.210	0.196
Atrazine	0.253	0.225	0.224	0.175	0.180
2-Fluorophenol (SUR)	1.443	1.495	1.480	1.370	1.282
Phenol-d5 (SUR)	2.236	2.154	1.982	1.850	1.789
2,4,6-Tribromophenol (SUR)	0.309	0.339	0.328	0.349	0.363
Nitrobenzene-d5 (SUR)	0.877	0.891	0.822	0.790	0.752
2-Fluorobiphenyl (SUR)	1.518	1.428	1.240	1.258	1.402
Terphenyl-d14 (SUR)	0.950	0.883	0.872	0.957	0.997

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS6

Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Phenol	AVRG	1.99565735	10.4*
2-Chlorophenol	AVRG	1.28312830	11.8*
2-Methylphenol	AVRG	1.38593322	10.4*
4-Methylphenol	AVRG	1.40286868	9.6*
2-Nitrophenol	AVRG	0.25510793	13.2*
2,4-Dimethylphenol	AVRG	0.33911809	13.7*
2,4-Dichlorophenol	AVRG	0.36816317	7.2*
4-Chloro-3-methylphenol	AVRG	0.57698447	8.0*
2,4,6-Trichlorophenol	AVRG	0.48991761	4.8*
2,4,5-Trichlorophenol	AVRG	0.52752665	6.3*
2,4-Dinitrophenol	AVRG	0.25346615	9.5**
4-Nitrophenol	AVRG	0.58620961	5.6**
4,6-Dinitro-2-methylphenol	AVRG	0.16893028	3.8*
Pentachlorophenol	AVRG	0.17800242	7.7*
Benzoic Acid	AVRG	0.24571942	15.1*
N-Nitrosodimethylamine	AVRG	1.08855557	8.4**
bis(2-Chloroethyl)ether	AVRG	1.62584185	9.8*
1,3-Dichlorobenzene	AVRG	1.38652048	12.5*
1,4-Dichlorobenzene	AVRG	1.38862888	10.7*
1,2-Dichlorobenzene	AVRG	1.33121334	11.6*
bis(2-chloroisopropyl)ether	AVRG	2.21013171	13.4*
N-Nitroso-di-n-propylamine	AVRG	1.56770209	5.1**
Hexachloroethane	AVRG	0.79219536	5.7*
Nitrobenzene	AVRG	1.05482530	2.1*
Isophorone	AVRG	1.37677739	4.2*
bis(2-Chloroethoxy)methane	AVRG	0.59346432	10.2*
1,2,4-Trichlorobenzene	AVRG	0.39810671	8.4*
Naphthalene	AVRG	1.09673595	10.0*
4-Chloroaniline	AVRG	0.43576084	13.0*
Hexachlorobutadiene	AVRG	0.35306405	3.7*
2-Methylnaphthalene	AVRG	0.75936719	8.1*
Hexachlorocyclopentadiene	AVRG	0.43795982	17.4**
2-Chloronaphthalene	AVRG	1.15453887	7.6*
2-Nitroaniline	AVRG	0.73028531	10.9*
Dimethylphthalate	AVRG	1.70322021	9.0*
Acenaphthylene	AVRG	1.76907896	8.3*
2,6-Dinitrotoluene	AVRG	0.38861750	10.0*
3-Nitroaniline	AVRG	0.39411508	10.2*
Acenaphthene	AVRG	1.15856573	6.0*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS6

Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.56234602	8.0*
2,4-Dinitrotoluene	AVRG	0.54846509	8.9*
Diethylphthalate	AVRG	2.00885228	6.5*
4-Chlorophenyl-phenylether	AVRG	0.81243219	5.5*
Fluorene	AVRG	1.34237840	8.0*
4-Nitroaniline	AVRG	0.38318187	10.8*
N-Nitrosodiphenylamine	AVRG	0.45760332	7.3*
4-Bromophenyl-phenylether	AVRG	0.23578904	2.9*
Hexachlorobenzene	AVRG	0.30645948	3.2*
Phenanthrene	AVRG	0.99651341	5.9*
Anthracene	AVRG	1.03142193	7.3*
Carbazole	AVRG	0.81207784	13.7*
Di-n-butylphthalate	AVRG	1.66135300	4.6*
Fluoranthene	AVRG	1.22526105	4.7*
Pyrene	AVRG	1.11399668	5.9*
Benzidine	AVRG	0.26465268	42.8*
Butylbenzylphthalate	AVRG	0.74508111	7.8*
3,3'-Dichlorobenzidine	AVRG	0.41236196	7.5*
Benzo(a)anthracene	AVRG	1.01433582	3.8*
Chrysene	AVRG	0.99244069	3.6*
bis(2-Ethylhexyl)phthalate	AVRG	1.06792010	8.4*
Di-n-octylphthalate	AVRG	1.94395605	4.4*
Benzo(b)fluoranthene	AVRG	1.22469976	8.4*
Benzo(k)fluoranthene	AVRG	1.24436630	4.2*
Benzo(a)pyrene	AVRG	1.15554746	3.5*
Indeno(1,2,3-cd)pyrene	AVRG	1.07823493	13.2*
Dibenz(a,h)anthracene	AVRG	1.05900400	4.7*
Benzo(g,h,i)perylene	AVRG	1.17392521	7.0*
Pyridine	AVRG	1.70183847	5.4*
Aniline	AVRG	2.11843720	11.7*
Benzyl Alcohol	AVRG	1.01400968	7.1*
1,2-Diphenylhydrazine	AVRG	1.20425821	6.8*
Diphenyl	AVRG	1.44668570	8.7**
Diphenyl Ether	AVRG	0.84720700	7.5**
Acetophenone	AVRG	2.51372596	9.0**
N,N-Dimethylaniline	AVRG	1.74270638	9.4**
1,4-Dioxane	AVRG		
2,3,7,8-TCDD (screen)	AVRG	0.07549552	0.0*
Benzaldehyde	AVRG	1.24456333	41.2*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS6

Calibration Date(s): 06/04/00 06/04/00

Calibration Time(s): 1034 1343

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Caprolactum	AVRG	0.20584288	3.3*
Atrazine	AVRG	0.21120360	15.8*
2-Fluorophenol (SUR)	AVRG	1.41414226	6.2*
Phenol-d5 (SUR)	AVRG	2.00234511	9.6*
2,4,6-Tribromophenol (SUR)	AVRG	0.33766542	6.1*
Nitrobenzene-d5 (SUR)	AVRG	0.82643386	7.1*
2-Fluorobiphenyl (SUR)	AVRG	1.36913997	8.6*
Terphenyl-d14 (SUR)	AVRG	0.93177667	5.7*

* Compound with required maximum % RSD value.
** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 625

Instrument ID: BNAMS6 Calibration Date: 06/05/00 Time: 1013

Lab File ID: M2184 Init. Calib. Date(s): 06/04/00 06/04/00

Init. Calib. Times: 1034 1343

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.996	2.005		-0.4	20.0
2-Chlorophenol	1.283	1.245		3.0	20.0
2-Methylphenol	1.386	1.398		-0.9	
4-Methylphenol	1.403	1.271		9.4	
2-Nitrophenol	0.255	0.247		3.1	20.0
2,4-Dimethylphenol	0.339	0.339		0.0	20.0
2,4-Dichlorophenol	0.368	0.350		4.9	20.0
4-Chloro-3-methylphenol	0.577	0.574		0.5	20.0
2,4,6-Trichlorophenol	0.490	0.468		4.5	20.0
2,4,5-Trichlorophenol	0.528	0.521		1.3	
2,4-Dinitrophenol	0.253	0.258	0.05	-2.0	20.0
4-Nitrophenol	0.586	0.598	0.05	-2.0	20.0
4,6-Dinitro-2-methylphenol	0.169	0.175		-3.6	20.0
Pentachlorophenol	0.178	0.183		-2.8	20.0
Benzoic Acid	0.246	0.264		-7.3	
N-Nitrosodimethylamine	1.089	1.291	0.01	-18.5	20.0
bis(2-Chloroethyl)ether	1.626	1.698		-4.4	20.0
1,3-Dichlorobenzene	1.387	1.344		3.1	20.0
1,4-Dichlorobenzene	1.389	1.348		3.0	20.0
1,2-Dichlorobenzene	1.331	1.280		3.8	20.0
bis(2-chloroisopropyl)ether	2.210	2.429		-9.9	20.0
N-Nitroso-di-n-propylamine	1.568	1.582	0.5	-0.9	20.0
Hexachloroethane	0.792	0.792		0.0	20.0
Nitrobenzene	1.055	1.044		1.0	20.0
Isophorone	1.377	1.442		-4.7	20.0
bis(2-Chloroethoxy)methane	0.593	0.586		1.2	20.0
1,2,4-Trichlorobenzene	0.398	0.368		7.5	20.0
Naphthalene	1.097	1.009		8.0	20.0
4-Chloroaniline	0.436	0.434		0.4	
Hexachlorobutadiene	0.353	0.337		4.5	20.0
2-Methylnaphthalene	0.759	0.689		9.2	
Hexachlorocyclopentadiene	0.438	0.484	0.05	-10.5	20.0
2-Chloronaphthalene	1.154	1.098		4.8	20.0
2-Nitroaniline	0.730	0.746		-2.2	
Dimethylphthalate	1.703	1.652		3.0	20.0
Acenaphthylene	1.769	1.728		2.3	20.0
2,6-Dinitrotoluene	0.388	0.394		-1.5	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS6 Calibration Date: 06/05/00 Time: 1013

Lab File ID: M2184 Init. Calib. Date(s): 06/04/00 06/04/00

Init. Calib. Times: 1034 1343

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.394	0.418		-6.1	
Acenaphthene	1.159	1.075		7.2	20.0
Dibenzofuran	1.562	1.450		7.2	
2,4-Dinitrotoluene	0.549	0.563		-2.6	20.0
Diethylphthalate	2.009	1.911		4.9	20.0
4-Chlorophenyl-phenylether	0.812	0.749		7.8	20.0
Fluorene	1.342	1.226		8.6	20.0
4-Nitroaniline	0.383	0.417		-8.9	
N-Nitrosodiphenylamine	0.458	0.455		0.6	20.0
4-Bromophenyl-phenylether	0.236	0.236		0.0	20.0
Hexachlorobenzene	0.306	0.292		4.6	20.0
Phenanthrene	0.997	0.956		4.1	20.0
Anthracene	1.031	0.969		6.0	20.0
Carbazole	0.812	0.805		0.9	
Di-n-butylphthalate	1.661	1.597		3.8	20.0
Fluoranthene	1.225	1.144		6.6	20.0
Pyrene	1.114	1.076		3.4	20.0
Benzidine	0.265	0.285		-7.5	
Butylbenzylphthalate	0.745	0.715		4.0	20.0
3,3'-Dichlorobenzidine	0.412	0.435		-5.6	20.0
Benzo(a)anthracene	1.014	0.998		1.6	20.0
Chrysene	0.993	0.975		1.8	20.0
bis(2-Ethylhexyl)phthalate	1.068	1.039		2.7	20.0
Di-n-octylphthalate	1.944	2.008		-3.3	20.0
Benzo(b)fluoranthene	1.225	1.250		-2.0	20.0
Benzo(k)fluoranthene	1.244	1.327		-6.7	20.0
Benzo(a)pyrene	1.156	1.213		-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.078	1.051		2.5	20.0
Dibenz(a,h)anthracene	1.059	1.034		2.4	20.0
Benzo(g,h,i)perylene	1.174	1.162		1.0	20.0
Pyridine	1.702	1.919		-12.7	
Aniline	2.118	2.356		-11.2	
Benzyl Alcohol	1.014	1.069		-5.4	
1,2-Diphenylhydrazine	1.204	1.259		-4.6	
Diphenyl	1.447	1.273	0.001	12.0	20.0
Diphenyl Ether	0.847	0.802	0.001	5.3	20.0
Acetophenone	2.514	2.307	0.001	8.2	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS6 Calibration Date: 06/05/00 Time: 1013

Lab File ID: M2184 Init. Calib. Date(s): 06/04/00 06/04/00

Init. Calib. Times: 1034 1343

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N,N-Dimethylaniline	1.743	1.668	0.001	4.3	20.0
1,4-Dioxane			0.01		20.0
2,3,7,8-TCDD (screen)	0.075	0.073		2.7	20.0
Benzaldehyde	1.244	1.138		8.5	20.0
Caprolactum	0.206	0.228		-10.7	20.0
Atrazine	0.211	0.215		-1.9	20.0
2-Fluorophenol (SUR)	1.414	1.446		-2.3	
Phenol-d5 (SUR)	2.002	2.046		-2.2	
2,4,6-Tribromophenol (SUR)	0.338	0.311		8.0	20.0
Nitrobenzene-d5 (SUR)	0.826	0.809		2.0	
2-Fluorobiphenyl (SUR)	1.369	1.206		11.9	
Terphenyl-d14 (SUR)	0.932	0.875		6.1	

SEMI-VOLATILE SURROGATE RECOVERY
METHOD 625

Matrix: WATER Level: LOW Lab Job No: Z784

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	WB124	44	24	98	86	72	105	0
02	201478	57	39	95	94	81	99	0
03								
04								
05								
06								
07								
08								
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12								
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26								
27								
28								
29								
30								

		QC LIMITS
S1	= 2-Fluorophenol	(4- 80)
S2	= Phenol-d5	(10- 53)
S3	= 2,4,6-Tribromophenol	(47-136)
S4	= Nitrobenzene-d5	(59-117)
S5	= 2-Fluorobiphenyl	(44-120)
S6	= Terphenyl-d14	(56-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 201827

MS Sample from Lab Job No: Z837

QA Batch: 5413

Compound	MS % REC.	BS % REC.	LIMITS
Phenol	31	31	5-112
2-Chlorophenol	72	66	23-134
2-Nitrophenol	81	76	29-182
2,4-Dimethylphenol	69	69	32-119
2,4-Dichlorophenol	82	80	39-135
4-Chloro-3-methylphenol	98	95	22-147
2,4,6-Trichlorophenol	93	91	37-144
2,4-Dinitrophenol	71	42	0-191
4-Nitrophenol	37	34	0-132
4,6-Dinitro-2-methylphenol	80	78	0-181
Pentachlorophenol	80	70	14-176
bis(2-Chloroethyl)ether	79	76	12-158
1,3-Dichlorobenzene	59	48	0-172
1,4-Dichlorobenzene	60	50	20-124
1,2-Dichlorobenzene	60	52	32-129
bis(2-chloroisopropyl)ether	82	77	36-166
N-Nitroso-di-n-propylamine	97	93	0-230
Hexachloroethane	60	50	40-113
Nitrobenzene	91	84	35-180
Isophorone	74	71	21-196
bis(2-Chloroethoxy)methane	85	82	33-184
1,2,4-Trichlorobenzene	71	58	44-142
Naphthalene	77	67	21-133
Hexachlorobutadiene	65	54	24-116
2-Chloronaphthalene	85	74	60-118
Dimethylphthalate	95	92	0-112
Acenaphthylene	86	80	33-145
2,6-Dinitrotoluene	96	90	50-158
Acenaphthene	89	83	47-145
2,4-Dinitrotoluene	87	86	39-139

* Values outside of QC limits

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 201827

MS Sample from Lab Job No: Z837

QA Batch: 5413

Compound	MS % REC.	BS % REC.	LIMITS
Diethylphthalate	97	96	0-114
4-Chlorophenyl-phenylether	96	91	25-158
Fluorene	94	87	59-121
4-Bromophenyl-phenylether	97	95	53-127
Hexachlorobenzene	100	98	0-152
Phenanthrene	92	92	54-120
Anthracene	88	91	27-133
Di-n-butylphthalate	98	98	1-118
Fluoranthene	93	93	26-137
Pyrene	88	91	52-115
Butylbenzylphthalate	90	91	0-152
3,3'-Dichlorobenzidine	58	89	0-262
Benzo(a)anthracene	94	94	33-143
Chrysene	93	92	17-168
bis(2-Ethylhexyl)phthalate	98	98	8-158
Di-n-octylphthalate	96	92	4-146
Benzo(b)fluoranthene	95	89	24-159
Benzo(k)fluoranthene	100	98	11-162
Benzo(a)pyrene	90	89	17-163
Indeno(1,2,3-cd)pyrene	87	84	0-171
Dibenz(a,h)anthracene	86	83	0-227
Benzo(g,h,i)perylene	85	81	0-219

* Values outside of QC limits

Spike Recovery: 0 out of 104 outside limits

COMMENTS:

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): T1190 Date Analyzed: 05/04/00

Instrument ID: BNAMS3 Time Analyzed: 0928

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(CRY) AREA #	RT #
	12 HOUR STD	242082	12.66	797859	14.86	1992172	24.61
	UPPER LIMIT	484164	13.16	1595718	15.36	3984344	25.11
	LOWER LIMIT	121041	12.16	398930	14.36	996086	24.11
	LABORATORY SAMPLE NO.						
01	WB124	201119	12.66	716118	14.86	1881219	24.60
02							
03							
04							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 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 File ID (Standard): T1190 Date Analyzed: 05/04/00

Instrument ID: BNAMS3 Time Analyzed: 0928

		IS4(ANT) AREA #	RT #	IS5(PHN) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	693160	17.78	1892631	20.24	1578816	27.77
	UPPER LIMIT	1386320	18.28	3785262	20.74	3157632	28.27
	LOWER LIMIT	346580	17.28	946316	19.74	789408	27.27
	LABORATORY SAMPLE NO.						
01	WB124	628585	17.78	1623317	20.23	1509666	27.75
02							
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21							
22							

IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 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 File ID (Standard): M2184 Date Analyzed: 06/05/00

Instrument ID: BNAMS6 Time Analyzed: 1013

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(CRY) AREA #	RT #
	12 HOUR STD	275744	13.19	932282	15.37	1308301	25.29
	UPPER LIMIT	551488	13.69	1864564	15.87	2616602	25.79
	LOWER LIMIT	137872	12.69	466141	14.87	654150	24.79
	LABORATORY SAMPLE NO.						
01	201478	232395	13.19	785277	15.36	1186680	25.27
02							
03							
04							
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18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (CRY) = Chrysene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 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 File ID (Standard): M2184 Date Analyzed: 06/05/00

Instrument ID: BNAMS6 Time Analyzed: 1013

		IS4(ANT) AREA #	RT #	IS5(PHN) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	609864	18.32	1202747	20.80	1159093	29.09
	UPPER LIMIT	1219728	18.82	2405494	21.30	2318186	29.59
	LOWER LIMIT	304932	17.82	601374	20.30	579546	28.59
	LABORATORY SAMPLE NO.						
01	201478	512735	18.31	1085041	20.79	1051666	29.06
02							
03							
04							
05							
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19							
20							
21							
22							

IS4 (ANT) = Acenaphthene-d10
IS5 (PHN) = Phenanthrene-d10
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Client ID: **SW-1**
Site: Schaeffer Salts

Lab Sample ID: **201478**
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00
Date Extracted: 05/02/00
Date Analyzed: 05/04/00
GC Column: DB-608
Instrument ID: PESTGC2.i

Matrix: WATER
Sample Volume: 980 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: yr042450.d

ORGANOCHLORINE PESTICIDES/PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aldrin	ND	0.01
alpha-BHC	ND	0.02
beta-BHC	ND	0.01
delta-BHC	ND	0.01
gamma-BHC (Lindane)	ND	0.02
Chlordane	ND	0.20
4,4'-DDD	ND	0.01
4,4'-DDE	ND	0.01
4,4'-DDT	ND	0.01
Dieldrin	ND	0.01
Endosulfan I	ND	0.01
Endosulfan II	ND	0.01
Endosulfan sulfate	ND	0.01
Endrin	ND	0.01
Endrin aldehyde	ND	0.01
Heptachlor	ND	0.01
Heptachlor epoxide	ND	0.01
Toxaphene	ND	0.40
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.40
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

GC ORGANICS SURROGATE RECOVERY

Matrix: WATER Level: LOW Lab Job No: Z784

	LABORATORY SAMPLE NO.	TCX %REC #	DCB %REC #	TOT OUT
01	WP123	101	112	0
02	201478	103	114	0
03				
04				
05				
06				
07				
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09				
10				
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28				
29				
30				

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(28-115)
S2 (DCB)	= Decachlorobiphenyl	(18-152)

Column to be used to flag recovery values
* Values outside of advisory QC limits
D Surrogate diluted out
R Surrogate removed during H2SO4 cleanup procedure
** Not detected due to coeluting interference

GC ORGANICS MATRIX SPIKE/BLANK SPIKE RECOVERY SUMMARY
METHOD 608

Matrix: WATER

Level: LOW

Matrix Spike - Lab Sample No.: 201683

MS Sample from Lab Job No: Z812

QA Batch: 6529

Compound	MS % REC.	BS % REC.	LIMITS
Aldrin	100	90	42-122
alpha-BHC	100	100	37-134
beta-BHC	125	120	17-147
delta-BHC	105	100	19-140
gamma-BHC (Lindane)	115	115	32-127
4,4'-DDD	115	100	31-141
4,4'-DDE	120	105	30-145
4,4'-DDT	125	110	25-160
Dieldrin	114	105	36-146
Endosulfan I	130	115	45-153
Endosulfan II	110	100	0-202
Endosulfan sulfate	115	100	26-144
Endrin	115	100	30-147
Endrin aldehyde	130	120	10-150
Endrin ketone	120	105	61-124
Heptachlor	120 *	115 *	34-111
Heptachlor epoxide	130	115	37-142
Methoxychlor	115	100	50-158

* Values outside of QC limits

Spike Recovery: 2 out of 36 outside limits

COMMENTS:

GC MATRIX SPIKE DUPLICATE RECOVERY

Matrix:WATER

Level:LOW

Matrix Spike - Lab Sample No.:201683

MS Sample from Lab Job No:Z812

QA Batch:6529

Compound	SPIKE ADDED	SAMPLE CONCENTRATION	MSD CONCENTRATION	MSD % REC #	QC. LIMITS REC.
Aldrin	2.0	0.00	2.0	100	42-122
alpha-BHC	2.0	0.00	2.1	105	37-134
beta-BHC	2.0	0.00	2.7	135	17-147
delta-BHC	2.0	0.00	2.3	115	19-140
gamma-BHC (Lindane)	2.0	0.00	2.4	120	32-127
4,4'-DDD	2.0	0.00	2.5	125	31-141
4,4'-DDE	2.0	0.00	2.5	125	30-145
4,4'-DDT	2.0	0.00	2.6	130	25-160
Dieldrin	2.0	0.00	2.5	125	36-146
Endosulfan I	2.0	0.00	2.7	135	45-153
Endosulfan II	2.0	0.00	2.3	115	0-202
Endosulfan sulfate	2.0	0.00	2.4	120	26-144
Endrin	2.0	0.00	2.4	120	30-147
Endrin aldehyde	2.0	0.00	2.7	135	10-150
Endrin ketone	2.0	0.00	2.5	125*	61-124
Heptachlor	2.0	0.00	2.5	125*	34-111
Heptachlor epoxide	2.0	0.00	2.7	135	37-142
Methoxychlor	2.0	0.00	2.4	120	50-158

Column to be used to flag recovery values with an asterik
* Values outside of QC limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS:

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

WP123

Matrix: WATER

Level: LOW

Instrument ID: PESTGC2

Date Analyzed: 05/03/00

Time Analyzed: 1800

Lab File ID: YR042437

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

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SW-1	201478	yr042450.d	05/04/00
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

Client ID: **WP123**
Site:

Lab Sample ID: **WP123**
Lab Job No: Z784

Date Sampled: _____
Date Received: _____
Date Extracted: 05/02/00
Date Analyzed: 05/03/00
GC Column: DB-608
Instrument ID: PESTGC2.i

Matrix: WATER
Sample Volume: 1000 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: yr042437.d

ORGANOCHLORINE PESTICIDES/PCBs - GC/ECD
METHOD 608

Parameter	Analytical Results Units: ug/l	Method Detection Limit Units: ug/l
Aldrin	ND	0.01
alpha-BHC	ND	0.02
beta-BHC	ND	0.01
delta-BHC	ND	0.01
gamma-BHC (Lindane)	ND	0.02
Chlordane	ND	0.20
4,4'-DDD	ND	0.01
4,4'-DDE	ND	0.01
4,4'-DDT	ND	0.01
Dieldrin	ND	0.01
Endosulfan I	ND	0.01
Endosulfan II	ND	0.01
Endosulfan sulfate	ND	0.01
Endrin	ND	0.01
Endrin aldehyde	ND	0.01
Endrin ketone	ND	0.01
Heptachlor	ND	0.01
Heptachlor epoxide	ND	0.01
Methoxychlor	ND	0.03
Toxaphene	ND	0.40
Aroclor-1016	ND	0.30
Aroclor-1221	ND	0.30
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.30
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.40
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b, as of 05/23/2000 12:48)

Instrument ID: PESTGC2.i Column ID: DB-608 Primary Column

Dates of Analysis: 05/03/00 to 05/04/00

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 25.523

Lab Sample ID	Data File	Injection Time	RT	DLT RT
WP123	yr042437.d	03-MAY-2000 18:00	25.520	0.003
201478	yr042450.d	04-MAY-2000 01:04	25.517	0.007

D = Surrogate diluted out.

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC2.i Column ID: DB-608 Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
1	1016/1260-500a		yr042164.d	CALIB_2	04/25/00	0119
2	1016/1260-1000a		yr042165.d	CALIB_3	04/25/00	0152
3	1016/1260-1500a		yr042166.d	CALIB_4	04/25/00	0224
4	1016/1260-2500a		yr042167.d	CALIB_5	04/25/00	0257
5	1016/1260-200a		yr042181.d	CALIB_1	04/25/00	1045
6	PEST MIX-10c		yr042363.d	CALIB_1	05/01/00	2256
7	PEST MIX-50c		yr042364.d	CALIB_2	05/01/00	2329
8	PEST MIX-100c		yr042365.d	CALIB_3	05/02/00	0001
9	PEST MIX-250c		yr042366.d	CALIB_4	05/02/00	0034
10	PEST MIX-500c		yr042367.d	CALIB_5	05/02/00	0106
11	END/DDTb		yr042423.d	END/DDT	05/03/00	0857
12	PEST MIX-100b		yr042424.d	CCALIB_3	05/03/00	0929
13	1016/1260-1000b		yr042425.d	CCALIB_3	05/03/00	1002
14	WP123		yr042437.d	BLANK	05/03/00	1800
15	201478	SW-1	yr042450.d	SAMPLE	05/04/00	0104

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC2.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042181.d
/chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042164.d
/chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042165.d
/chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042166.d
/chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042167.d

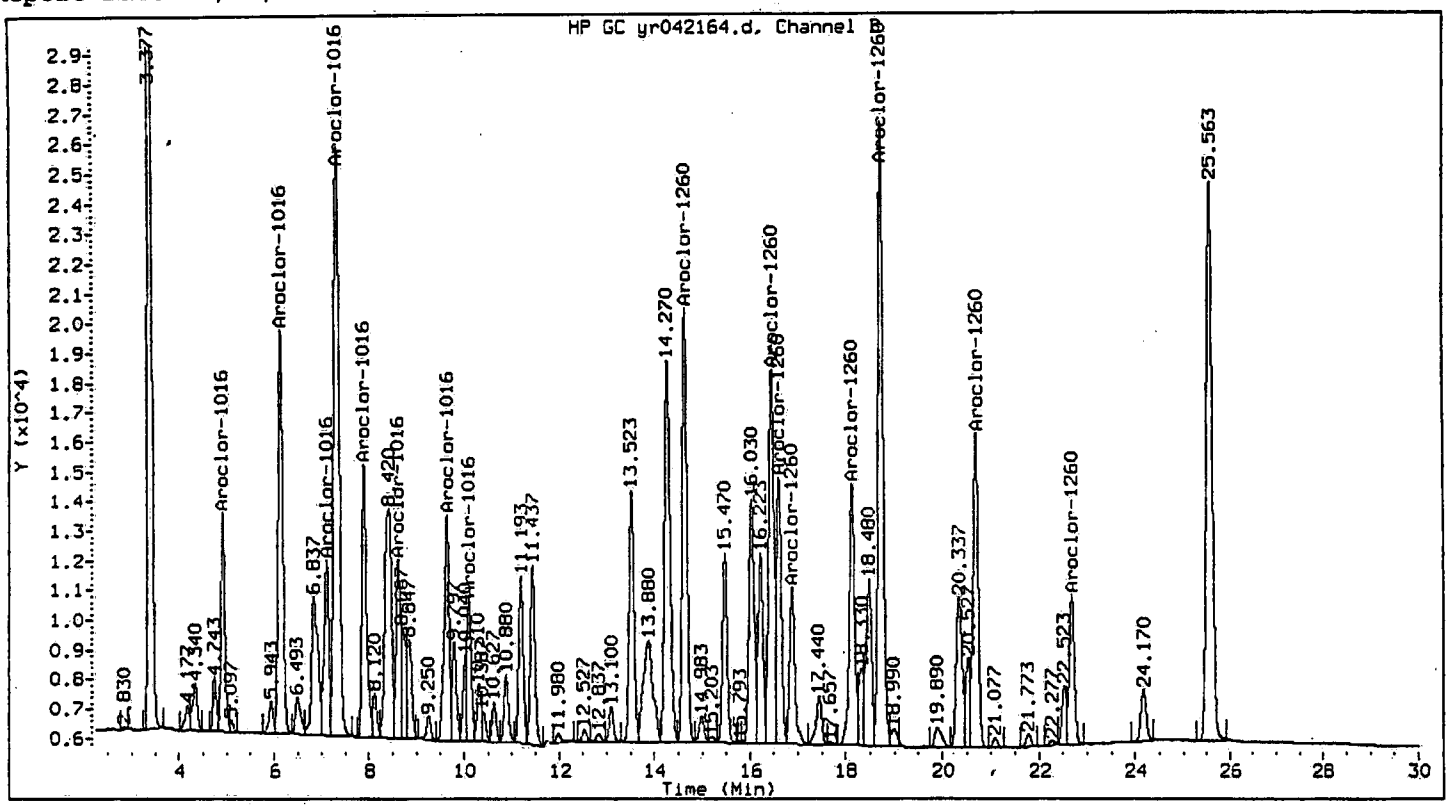
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aroclor-1016	1	--------	--------	--------	--------	--------					+
	2	--------	--------	--------	--------	--------					+
	3	79.21	82.18	83.08	73.54	69.45		77.49		7.53780	
	4	315.80	317.56	315.73	280.99	264.45		298.91		8.23685	
	5	120.67	124.55	124.24	111.24	104.25		116.99		7.63071	
	6	78.63	78.79	76.84	69.28	64.87		73.68		8.52042	
	7	114.89	116.60	117.45	104.20	96.89		110.01		8.23843	
	8	59.33	64.53	65.06	57.85	57.07		60.77		6.20318	
Aroclor-1260	1	--------	--------	--------	--------	--------					+
	2	187.00	196.16	196.32	176.38	171.23		185.42		6.14798	
	3	121.08	124.38	123.14	111.29	107.71		117.52		6.39912	
	4	72.72	79.03	82.27	73.30	71.92		75.85		6.00746	
	5	128.69	135.37	136.65	121.95	119.82		128.49		5.92556	
	6	288.39	301.31	306.20	275.73	272.58		288.84		5.17349	
	7	143.50	152.74	156.30	142.30	140.68		147.10		4.73061	
	8	65.88	71.42	74.54	67.63	67.58		69.41		5.06195	

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042164.d Page 1
Report Date 05/01/2000 22:34



Method : /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/Yr608.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 25-APR-2000 01:19
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

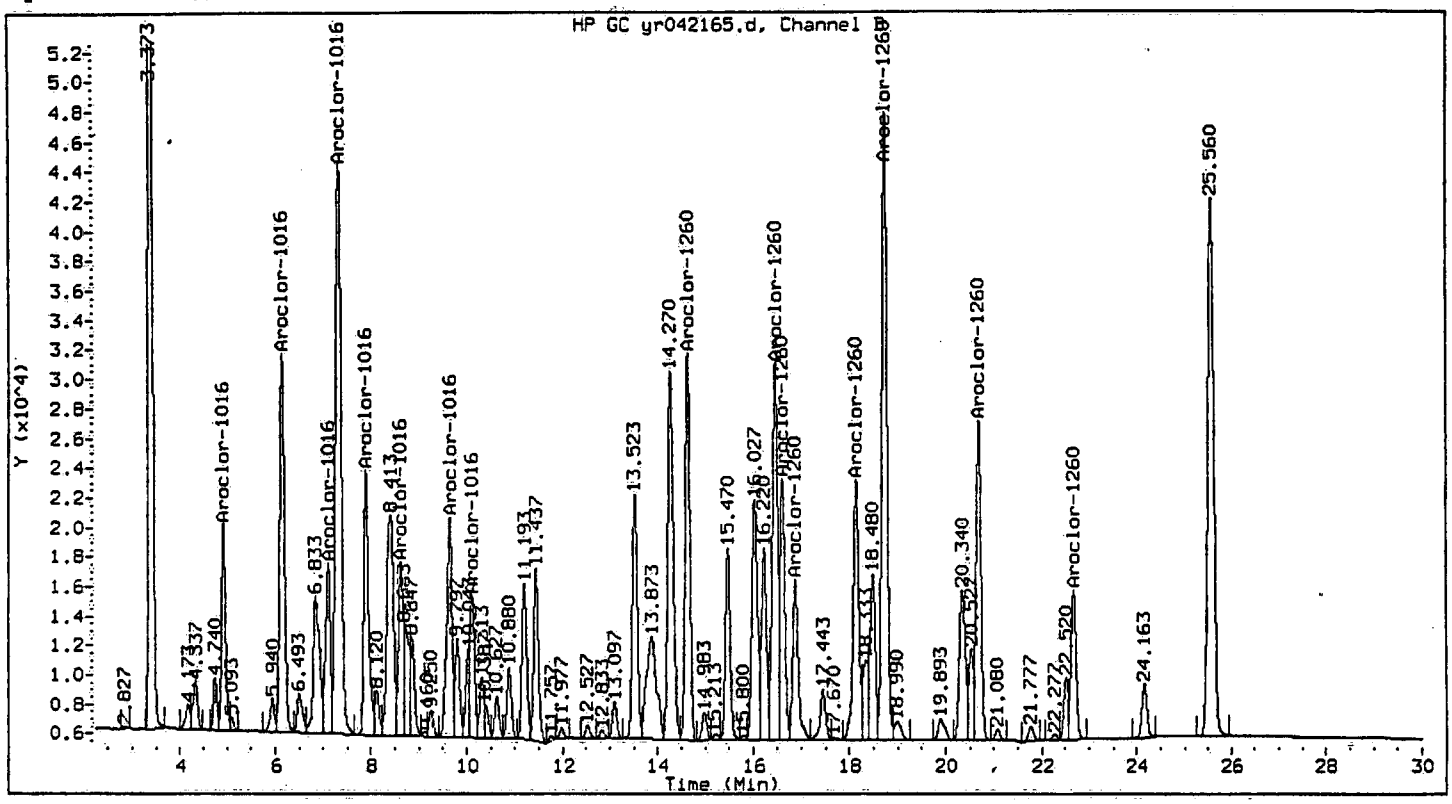
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	------	4.917	------	------	------	------ (*)
(2)		------	6.143	------	------	------	------ (*)
(3)		7.103	7.103	0.000	41092	530.269	530.269
(4)		7.327	7.323	0.004	158781	531.208	531.208
(5)		7.890	7.890	0.000	62275	532.316	532.316
(6)		8.617	8.613	0.004	39396	534.677	534.677
(7)		9.643	9.640	0.003	58298	529.955	529.955
(8)		10.110	10.110	0.000	32263	530.942	530.942
Average of peak concentrations:							530.00
Aroclor-1260	(M)	------	14.630	------	------	------	------ (*)
(2)		16.450	16.450	0.000	98081	528.968	528.968
(3)		16.600	16.600	0.000	62190	529.184	529.184
(4)		16.873	16.873	0.000	39513	520.968	520.968
(5)		18.130	18.130	0.000	67683	526.745	526.745
(6)		18.720	18.723	0.003	150654	521.575	521.575

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.683	20.680	0.003	76370	519.159	519.159
(8)	22.683	22.683	0.000	35711	514.490	514.490
Average of peak concentrations:						520.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042165.d Page 1
Report Date 05/01/2000 22:34



Method : /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/Yr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 25-APR-2000 01:52
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

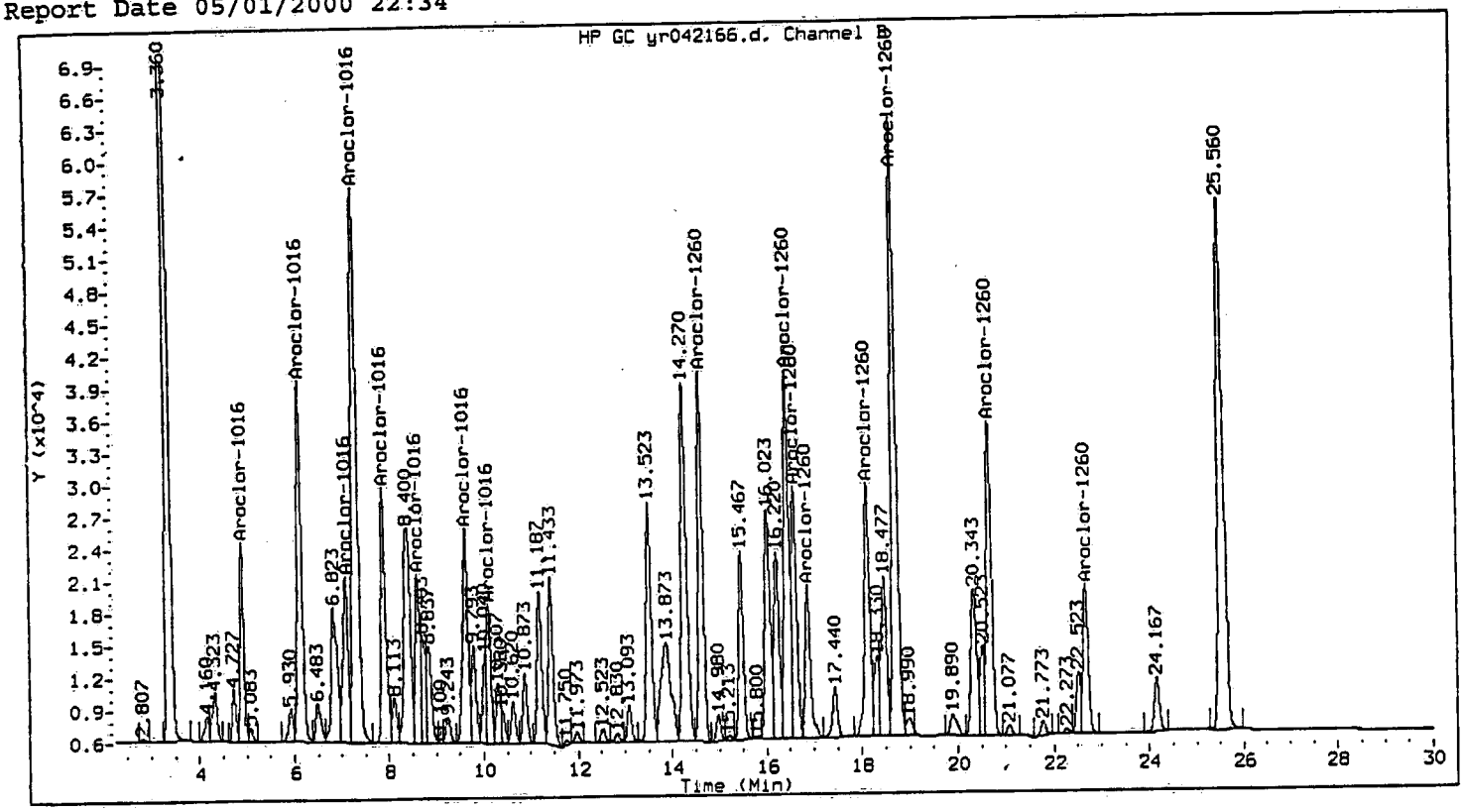
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	------	4.917	------	------	------	------ (*)
(2)		------	6.143	------	------	------	------ (*)
(3)		7.103	7.103	0.000	83084	1072.140	1072.140
(4)		7.323	7.323	0.000	315727	1056.277	1056.277
(5)		7.890	7.890	0.000	124238	1061.966	1061.966
(6)		8.613	8.613	0.000	76844	1042.912	1042.912
(7)		9.640	9.640	0.000	117450	1067.675	1067.675
(8)		10.110	10.110	0.000	65062	1070.691	1070.691
Average of peak concentrations:							1100.00
Aroclor-1260		------	14.630	------	------	------	------ (*)
(2)		16.450	16.450	0.000	196325	1058.816	1058.816
(3)		16.600	16.600	0.000	123136	1047.786	1047.786
(4)		16.873	16.873	0.000	82269	1084.681	1084.681
(5)		18.130	18.130	0.000	136645	1063.440	1063.440
(6)		18.723	18.723	0.000	306203	1060.098	1060.098

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.680	20.680	0.000	156301	1062.525	1062.525
(8)	22.683	22.683	0.000	74544	1073.951	1073.951
Average of peak concentrations:						1100.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042166.d Page 1
Report Date 05/01/2000 22:34



Method : /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/Yr608.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 25-APR-2000 02:24
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

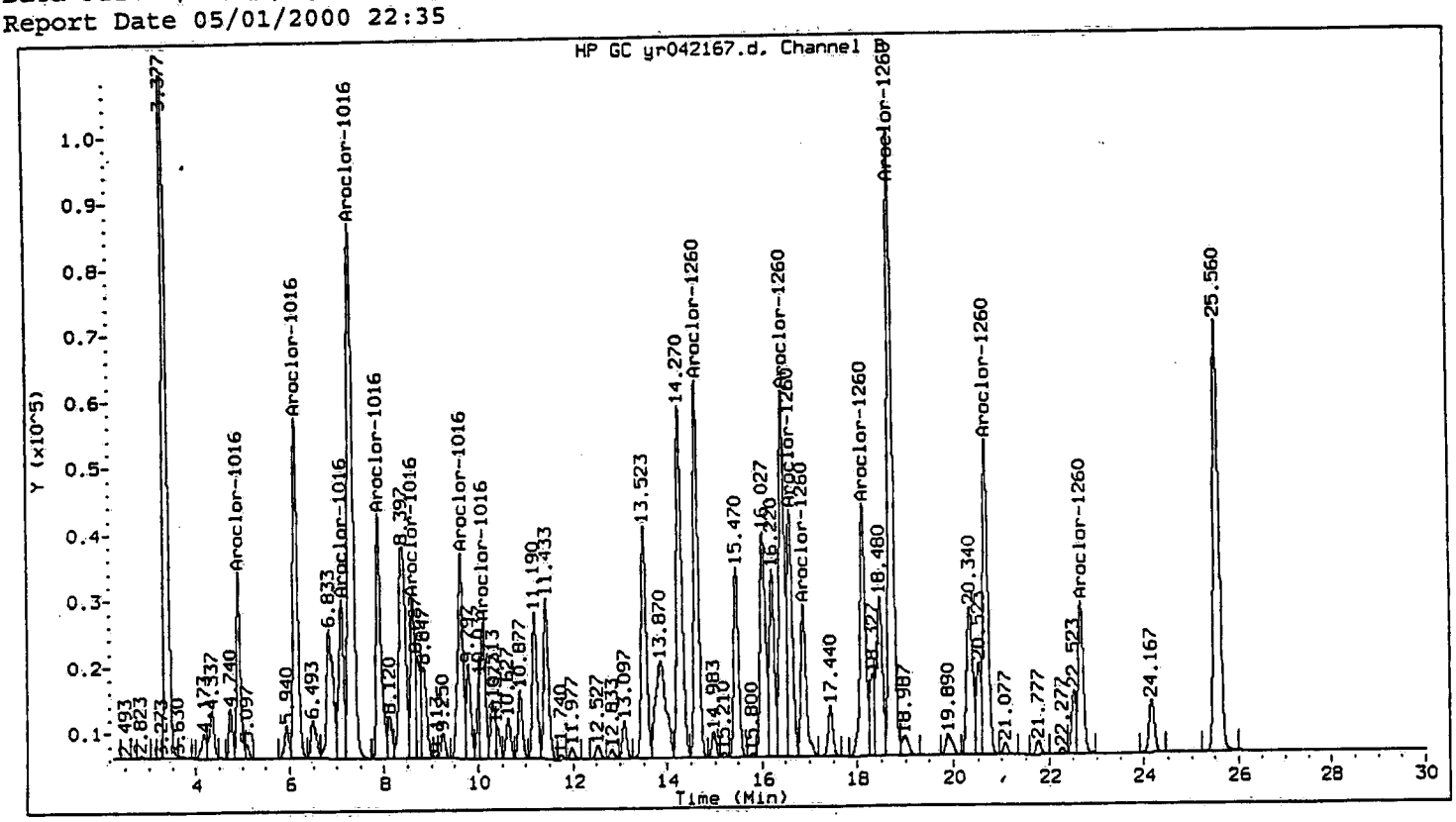
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	------	4.917	------	------	------	------ (*)
(2)		------	6.143	------	------	------	------ (*)
(3)		7.093	7.103	0.010	110305	1423.410	1423.410
(4)		7.317	7.323	0.007	421487	1410.101	1410.101
(5)		7.883	7.890	0.007	166853	1426.230	1426.230
(6)		8.610	8.613	0.003	103920	1410.372	1410.372
(7)		9.633	9.640	0.007	156304	1420.867	1420.867
(8)		10.107	10.110	0.003	86782	1428.126	1428.126
Average of peak concentrations:							1400.00
Aroclor-1260	(M)	------	14.630	------	------	------	------ (*)
(2)		16.450	16.450	0.000	264572	1426.879	1426.879
(3)		16.600	16.600	0.000	166939	1420.512	1420.512
(4)		16.870	16.873	0.003	109947	1449.597	1449.597
(5)		18.130	18.130	0.000	182918	1423.562	1423.562
(6)		18.720	18.723	0.003	413598	1431.906	1431.906

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.677	20.680	0.003	213453	1451.040	1451.040
(8)	22.680	22.683	0.003	101449	1461.572	1461.572
Average of peak concentrations:						1400.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042167.d Page 1
Report Date 05/01/2000 22:35



Method : /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/Yr608.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 25-APR-2000 02:57
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

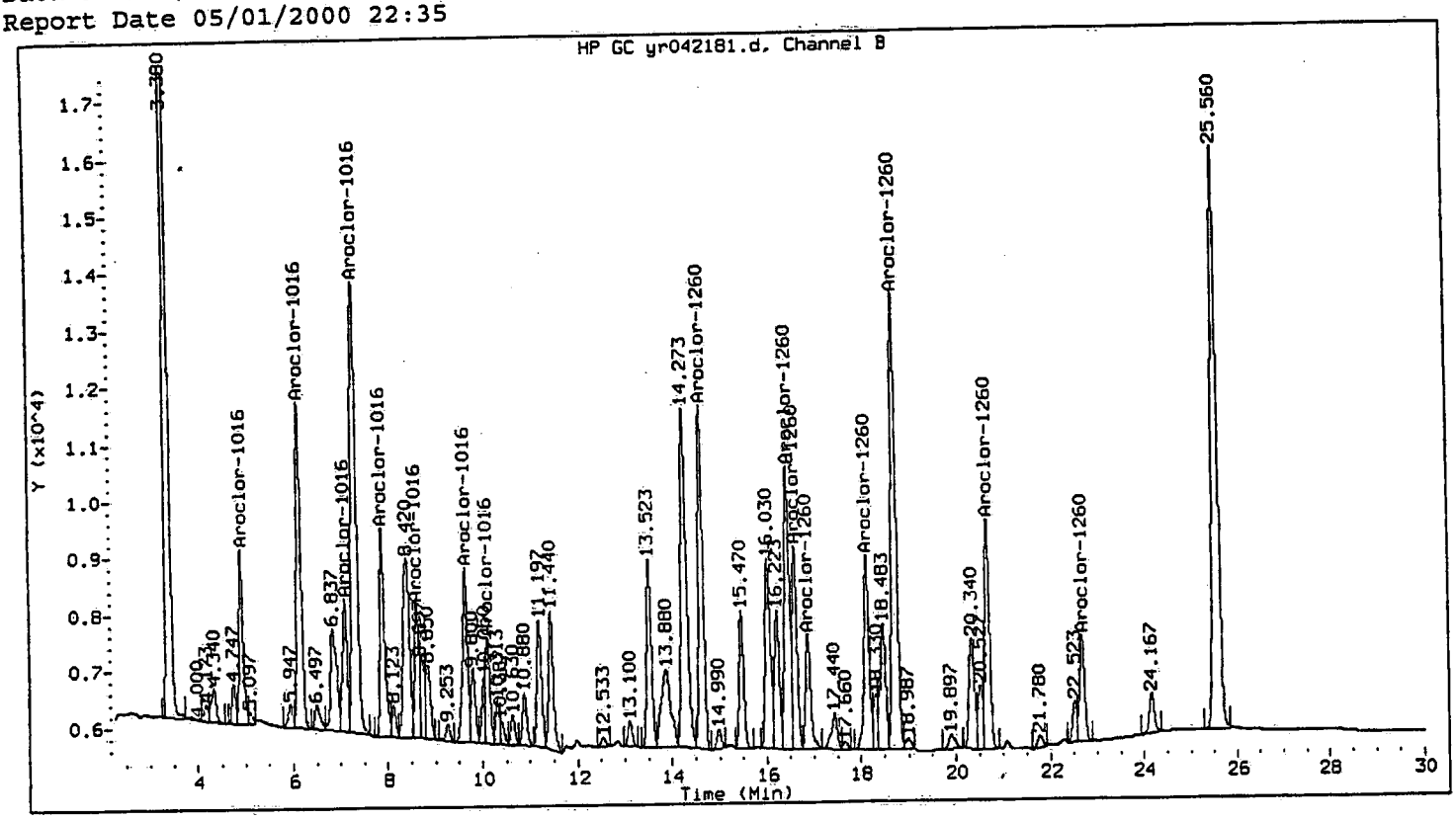
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	------	4.917	------	------	------	------ (*)
(2)		------	6.143	------	------	------	------ (*)
(3)		7.103	7.103	0.000	173636	2240.648	2240.648
(4)		7.323	7.323	0.000	661121	2211.806	2211.806
(5)		7.890	7.890	0.000	260617	2227.710	2227.710
(6)		8.613	8.613	0.000	162170	2200.921	2200.921
(7)		9.640	9.640	0.000	242217	2201.854	2201.854
(8)		10.110	10.110	0.000	142665	2347.755	2347.755
Average of peak concentrations:							2200.00
Aroclor-1260		------	14.630	------	------	------	------ (*)
(2)		16.450	16.450	0.000	428080	2308.707	2308.707
(3)		16.600	16.600	0.000	269284	2291.383	2291.383
(4)		16.870	16.873	0.003	179800	2370.583	2370.583
(5)		18.127	18.130	0.003	299541	2331.181	2331.181
(6)		18.720	18.723	0.003	681459	2359.261	2359.261

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.680	20.680	0.000	351692	2390.776	2390.776
(8)	22.680	22.683	0.003	168946	2433.984	2433.984
Average of peak concentrations:						2400.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042181.d Page 1
Report Date 05/01/2000 22:35



Method : /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/Yr608.m
Sample Info : 1016/1260-200a
Lab ID : 1016/1260-200a
Inj Date : 25-APR-2000 10:45
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Aroclor-1016	(M)	------	4.917	------	------	------	------ (*)
(2)		------	6.143	------	------	------	------ (*)
(3)		7.107	7.103	0.003	15842	204.431	204.431
(4)		7.327	7.323	0.003	63160	211.305	211.305
(5)		7.893	7.890	0.003	24135	206.305	206.305
(6)		8.617	8.613	0.003	15726	213.431	213.431
(7)		9.643	9.640	0.003	22979	208.894	208.894
(8)		10.113	10.110	0.003	11865	195.265	195.265
Average of peak concentrations:							210.00
Aroclor-1260	(M)	------	14.630	------	------	------	------ (*)
(2)		16.450	16.450	0.000	37400	201.704	201.704
(3)		16.603	16.600	0.003	24216	206.063	206.063
(4)		16.873	16.873	0.000	14544	191.757	191.757
(5)		18.133	18.130	0.003	25739	200.318	200.318
(6)		18.720	18.723	0.003	57679	199.691	199.691

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.680	20.680	0.000	28700	195.104	195.104
(8)	22.680	22.683	0.003	13176	189.828	189.828
Average of peak concentrations:						200.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC2.i Column ID: DB-1701 Confirmatory Column

Calibration Files:

/chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042181.d
/chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042164.d
/chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042165.d
/chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042166.d
/chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042167.d

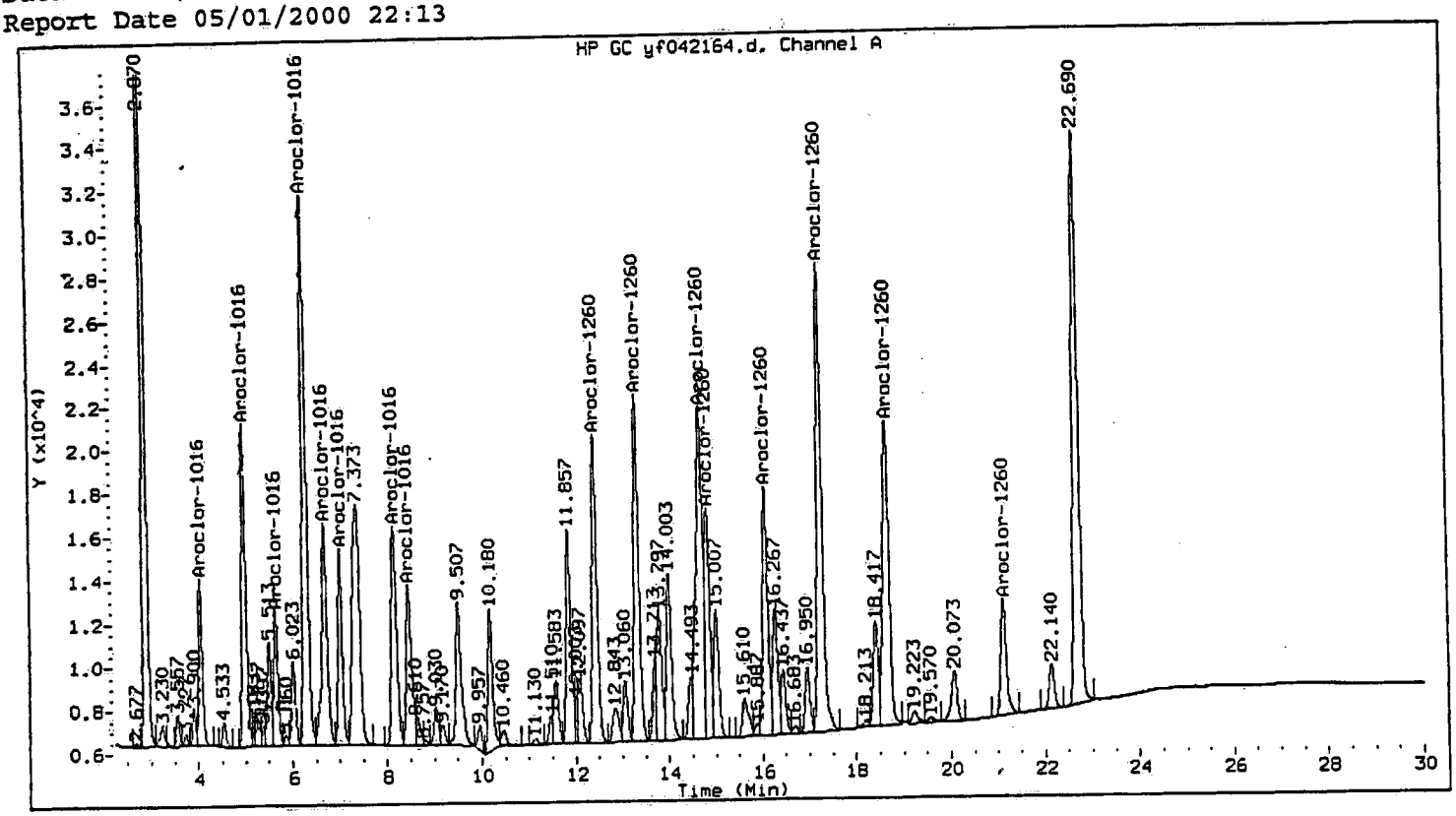
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2
Aroclor-1016	1	90.70	86.33	85.35	79.35	73.68		83.08		7.98718
	2	--------	--------	--------	--------	--------				
	3	74.89	74.57	75.06	71.48	66.98		72.60		4.77199
	4	330.15	329.00	326.24	304.35	287.65		315.48		5.95519
	5	157.44	160.23	159.34	148.78	139.93		153.14		5.66072
	6	102.32	109.88	112.60	106.81	102.87		106.90		4.14626
	7	154.38	156.68	155.31	144.12	136.75		149.45		5.80130
	8	108.94	114.84	118.70	109.17	103.31		110.99		5.34435
Aroclor-1260	1	202.77	206.20	201.41	185.91	178.17		194.89		6.24608
	2	231.94	240.29	233.68	217.04	209.05		226.40		5.69703
	3	283.64	310.05	312.14	291.25	286.30		296.68		4.53821
	4	146.74	145.16	145.51	140.43	133.31		142.23		3.89111
	5	164.48	173.97	174.42	164.75	158.78		167.28		4.03481
	6	322.87	346.74	355.14	339.91	333.55		339.64		3.63286
	7	233.69	258.14	269.04	263.58	254.34		255.76		5.28931
	8	77.58	85.19	89.16	86.73	86.02		84.94		5.14586

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042164.d Page 1
Report Date 05/01/2000 22:13



Method : /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/Yf608.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 25-APR-2000 01:19
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

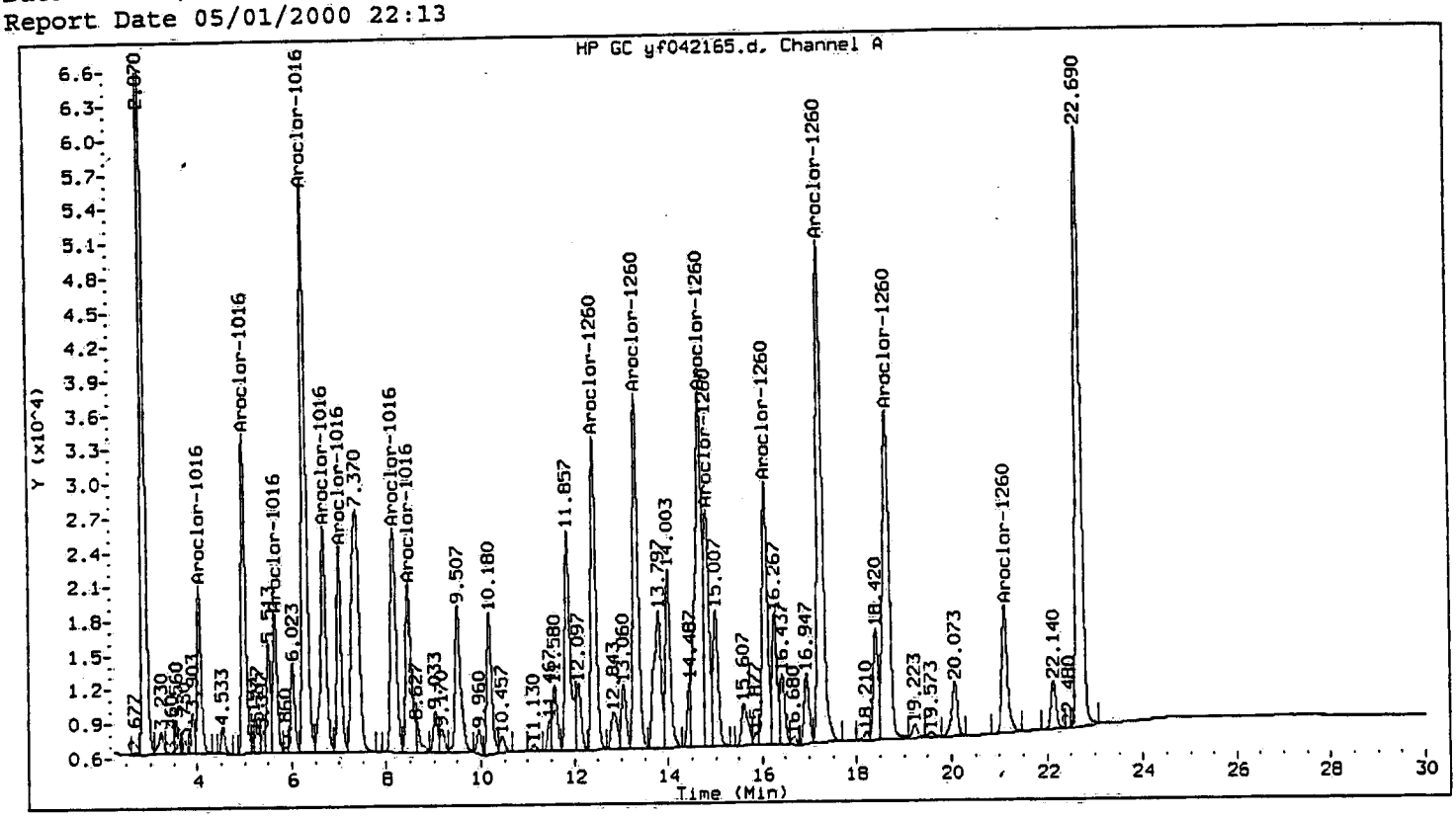
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aroclor-1016	(M)	4.043	4.043	0.000	43166	549.300	549.300
(2)		------	4.980	------	------	------	------ (*)
(3)		5.650	5.650	0.000	37284	516.067	516.067
(4)		6.283	6.283	0.000	164499	521.749	521.749
(5)		6.683	6.683	0.000	80113	525.890	525.890
(6)		7.010	7.010	0.000	54941	517.614	517.614
(7)		8.150	8.150	0.000	78338	525.218	525.218
(8)		8.460	8.463	0.003	57418	468.560	468.560
Average of peak concentrations:							520.00
Aroclor-1260	(M)	12.420	12.420	0.000	103101	529.143	529.143
(2)		13.323	13.323	0.000	120147	531.870	531.870
(3)		14.683	14.683	0.000	155024	488.709	488.709
(4)		14.823	14.823	0.000	72581	516.075	516.075
(5)		16.067	16.067	0.000	86985	517.324	517.324
(6)		17.240	17.243	0.003	173371	506.381	506.381

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
(7)	18.647	18.650	0.003	129068	494.876	494.876
(8)	21.113	21.113	0.000	42593	467.737	467.737
Average of peak concentrations:						510.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042165.d Page 1
Report Date 05/01/2000 22:13



Method : /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/Yf608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 25-APR-2000 01:52
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

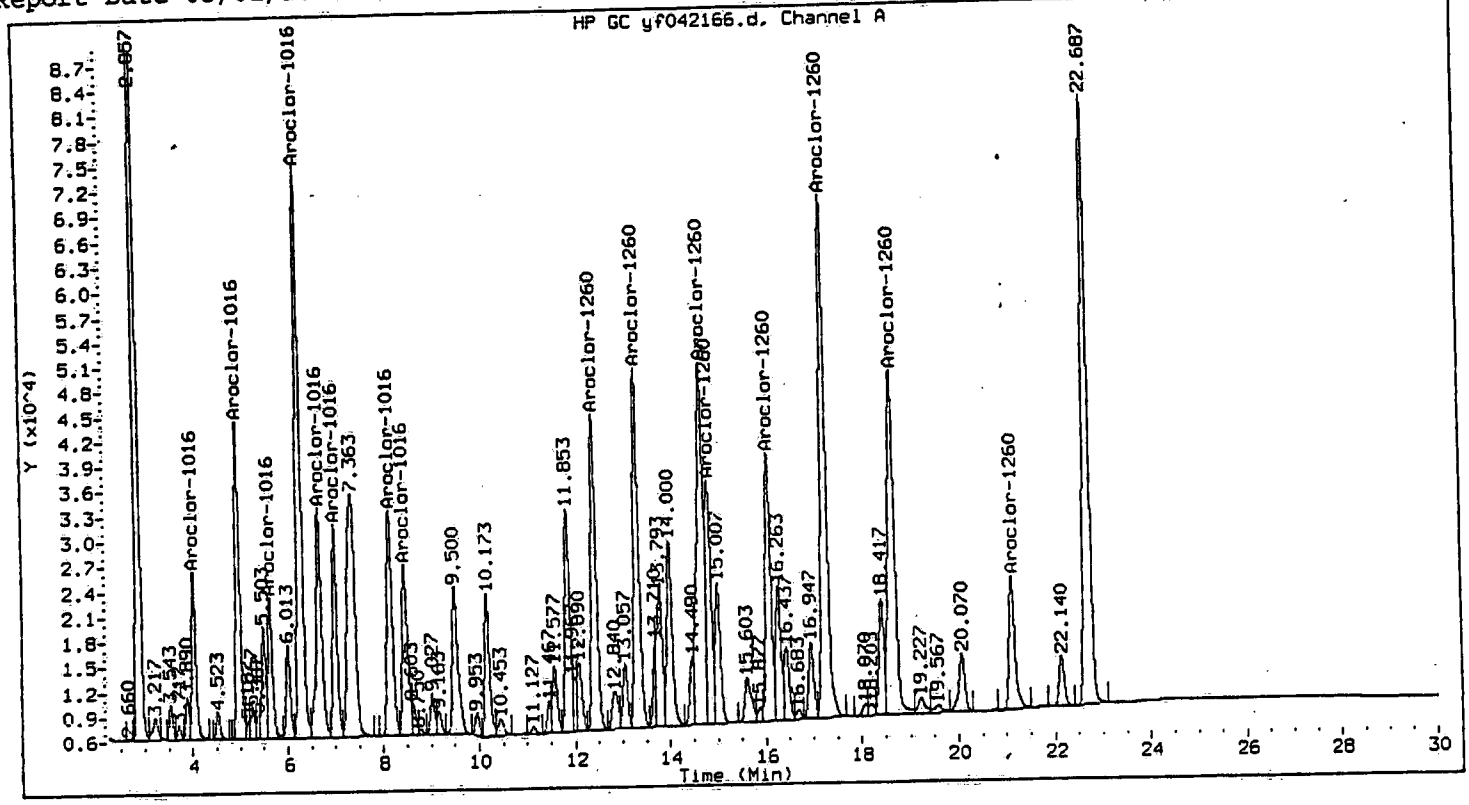
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aroclor-1016	(M)	4.043	4.043	0.000	85352	1078.261	1078.261
(2)		------	4.980	------	------	------	------ (*)
(3)		5.650	5.650	0.000	75065	1039.762	1039.762
(4)		6.283	6.283	0.000	326241	1035.152	1035.152
(5)		6.683	6.683	0.000	159341	1046.211	1046.211
(6)		7.010	7.010	0.000	112599	1060.545	1060.545
(7)		8.150	8.150	0.000	155314	1042.283	1042.283
(8)		8.463	8.463	0.000	118701	994.568	994.568
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	12.420	12.420	0.000	201408	1033.680	1033.680
(2)		13.323	13.323	0.000	233684	1034.481	1034.481
(3)		14.683	14.683	0.000	312143	1000.895	1000.895
(4)		14.823	14.823	0.000	145514	1034.651	1034.651
(5)		16.067	16.067	0.000	174422	1037.339	1037.339
(6)		17.243	17.243	0.000	355136	1037.841	1037.841

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
(7)	18.650	18.650	0.000	269040	1033.645	1033.645
(8)	21.113	21.113	0.000	89160	989.354	989.354
Average of peak concentrations:						1000.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042166.d Page 1
Report Date 05/01/2000 22:13



Method : /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/Yf608.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 25-APR-2000 02:24
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

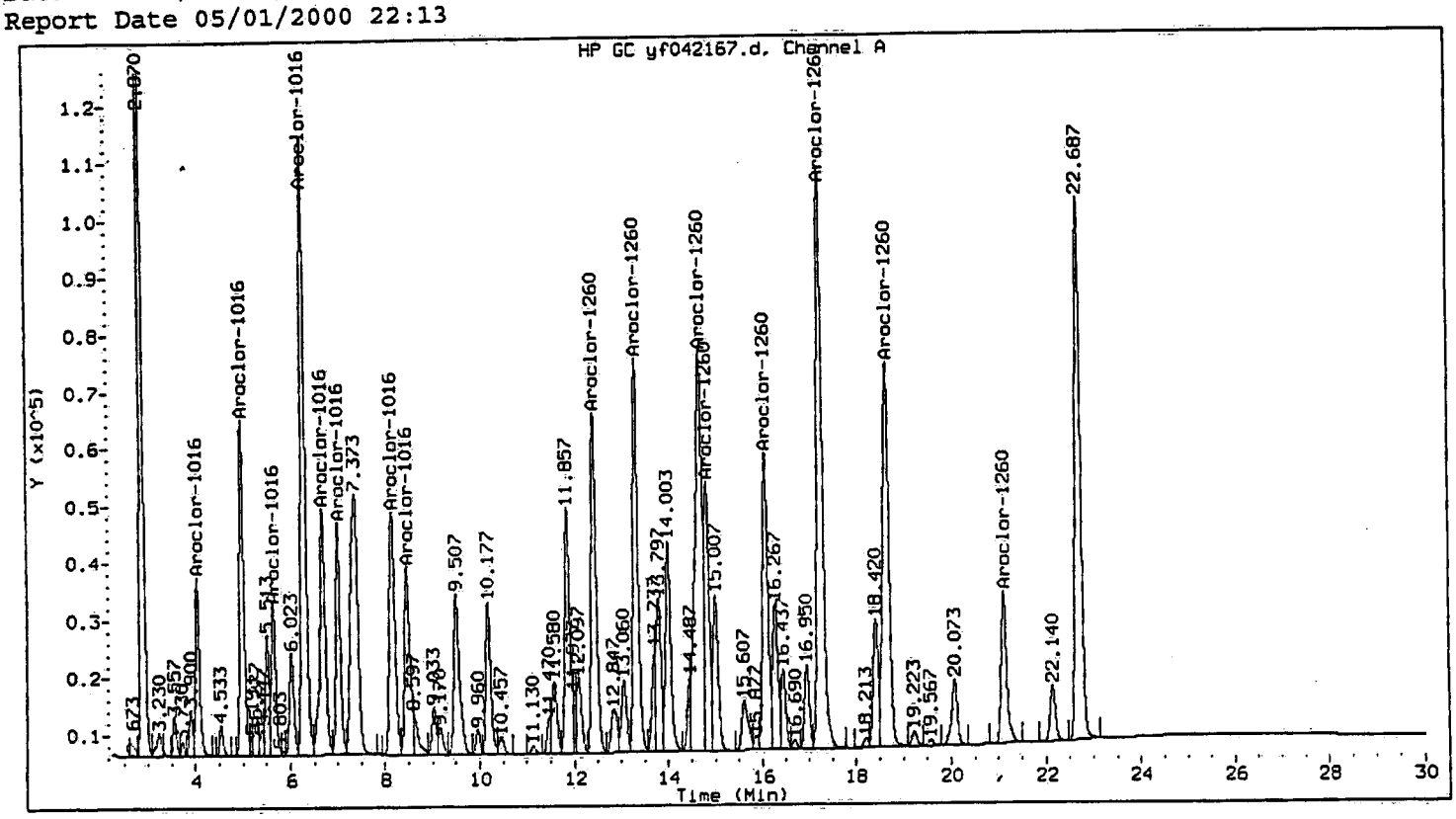
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aroclor-1016	(M)	4.030	4.043	0.013	119024	1485.074	1485.074
(2)		------	4.980	------	------	------	------ (*)
(3)		5.640	5.650	0.010	107223	1483.410	1483.410
(4)		6.273	6.283	0.010	456528	1448.212	1448.212
(5)		6.673	6.683	0.010	223165	1464.130	1464.130
(6)		7.000	7.010	0.010	160211	1507.439	1507.439
(7)		8.143	8.150	0.007	216182	1451.927	1451.927
(8)		8.457	8.463	0.006	163750	1412.708	1412.708
Average of peak concentrations:							1500.00
Aroclor-1260	(M)	12.417	12.420	0.003	278864	1430.880	1430.880
(2)		13.320	13.323	0.003	325565	1440.418	1440.418
(3)		14.683	14.683	0.000	436874	1424.612	1424.612
(4)		14.820	14.823	0.003	210638	1491.878	1491.878
(5)		16.067	16.067	0.000	247125	1467.971	1467.971
(6)		17.243	17.243	0.000	509858	1492.278	1492.278

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
(7)	18.647	18.650	0.003	395369	1523.621	1523.621
(8)	21.113	21.113	0.000	130098	1458.081	1458.081
Average of peak concentrations:						1500.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042167.d Page 1
Report Date 05/01/2000 22:13



Method : /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/Yf608.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 25-APR-2000 02:57
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aroclor-1016	(M)	4.043	4.043	0.000	184201	2269.590	2269.590
(2)		------	4.980	------	------	------	------ (*)
(3)		5.650	5.650	0.000	167450	2325.307	2325.307
(4)		6.283	6.283	0.000	719135	2281.375	2281.375
(5)		6.683	6.683	0.000	349837	2295.313	2295.313
(6)		7.010	7.010	0.000	257181	2419.479	2419.479
(7)		8.150	8.150	0.000	341863	2296.031	2296.031
(8)		8.463	8.463	0.000	258278	2300.694	2300.694
Average of peak concentrations:							2300.00
Aroclor-1260	(M)	12.417	12.420	0.003	445426	2285.502	2285.502
(2)		13.323	13.323	0.000	522622	2311.935	2311.935
(3)		14.687	14.683	0.004	715749	2372.034	2372.034
(4)		14.820	14.823	0.003	333273	2353.227	2353.227
(5)		16.067	16.067	0.000	396955	2356.325	2356.325
(6)		17.243	17.243	0.000	833872	2441.196	2441.196

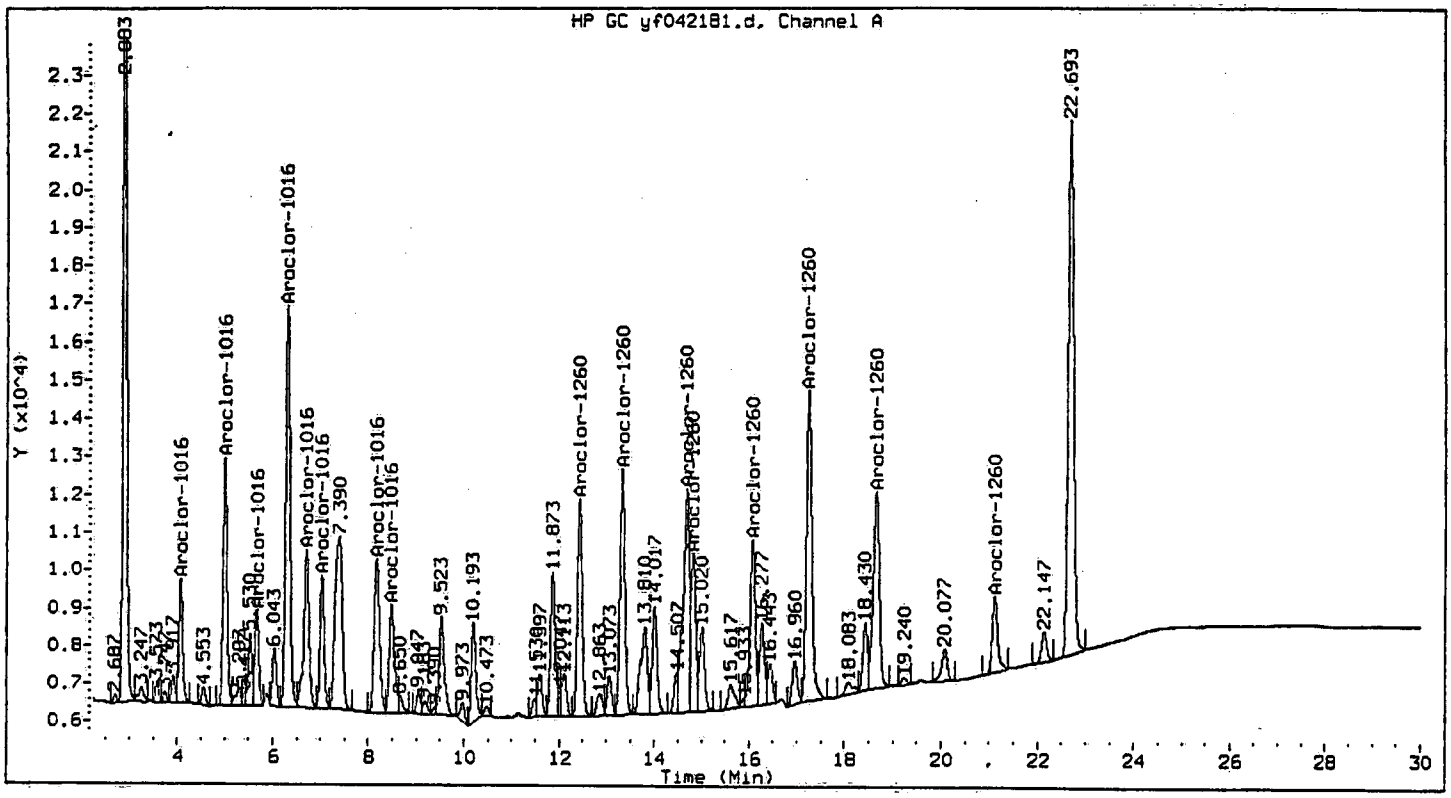
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
(7)	18.650	18.650	0.000	635861	2451.250	2451.250
(8)	21.117	21.113	0.004	215043	2420.183	2420.183

Average of peak concentrations: 2400.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042181.d Page 1
Report Date 05/01/2000 22:13



Method : /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/Yf608.m
Sample Info : 1016/1260-200a
Lab ID : 1016/1260-200a
Inj Date : 25-APR-2000 10:45
Operator : RCM
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aroclor-1016	(M)	4.063	4.043	0.020	18141	218.348	218.348
(2)		------	4.980	------	------	------	------ (*)
(3)		5.670	5.650	0.020	14977	206.311	206.311
(4)		6.303	6.283	0.020	66030	209.303	209.303
(5)		6.700	6.683	0.017	31489	205.618	205.618
(6)		7.027	7.010	0.017	20464	191.442	191.442
(7)		8.167	8.150	0.017	30875	206.597	206.597
(8)		8.480	8.463	0.017	21788	196.306	196.306
Average of peak concentrations:							200.00
Aroclor-1260	(M)	12.433	12.420	0.013	40554	208.088	208.088
(2)		13.337	13.323	0.014	46389	204.898	204.898
(3)		14.697	14.683	0.014	56728	191.215	191.215
(4)		14.837	14.823	0.014	29347	206.338	206.338
(5)		16.077	16.067	0.010	32896	196.655	196.655
(6)		17.250	17.243	0.007	64574	190.126	190.126

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
(7)	18.653	18.650	0.003	46739	182.748	182.748
(8)	21.120	21.113	0.007	15516	182.685	182.685
Average of peak concentrations:						200.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.
M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC2.i Column ID: DB-608 Primary Column

Calibration Files:

/chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042363.d
/chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042364.d
/chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042365.d
/chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042366.d
/chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042367.d

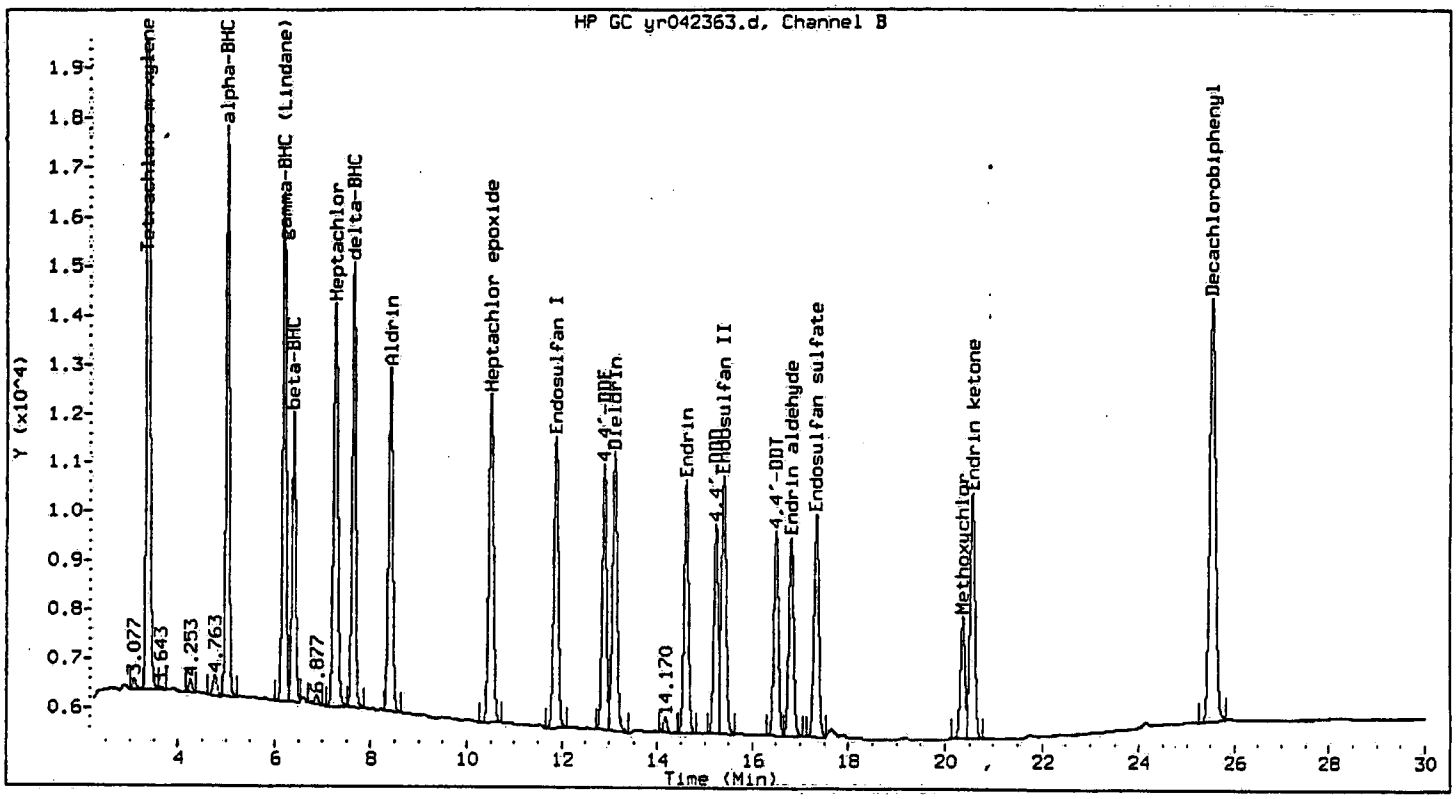
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2	
Aldrin	4272.70	4576.44	4096.06	4045.90	3569.77		4112.17		8.93643	
alpha-BHC	5327.80	6024.38	5426.36	5281.02	4627.97		5337.51		9.30381	
beta-BHC	3051.00	2833.22	2475.81	2298.36	2000.63	-0.55397	0.00036	1.4463e-10	0.99987	*
delta-BHC	4521.40	5188.00	4697.43	4585.05	4084.21		4615.22		8.57522	
gamma-BHC (Lindane)	5120.80	5554.06	4950.84	4770.25	4160.59	1.11894	0.00017	3.1753e-11	0.99978	*
4,4'-DDD	2675.10	2938.80	2689.13	2701.24	2444.78		2689.81		6.50288	
4,4'-DDE	3349.80	3708.28	3374.40	3441.49	3082.63		3391.32		6.59815	
4,4'-DDT	2694.50	2989.80	2737.21	2837.38	2577.34		2767.25		5.61887	
Dieldrin	3842.80	4032.68	3656.00	3692.78	3315.89		3708.03		7.13868	
Endosulfan I	3927.50	3972.46	3517.89	3435.66	3034.13	0.66059	0.00025	5.3085e-11	0.99976	*
Endosulfan II	3597.90	3626.52	3220.81	3200.45	2855.17		3300.17		9.69427	
Endosulfan sulfate	3082.60	3054.92	2739.00	2739.68	2465.38		2816.32		9.10206	
Endrin	3368.10	3630.12	3301.15	3315.85	3020.87		3327.22		6.51721	
Endrin aldehyde	2781.10	2728.26	2413.05	2353.24	2081.31	0.43859	0.00036	1.1137e-10	0.99977	*
Endrin ketone	3366.40	3621.50	3252.71	3245.70	2895.22		3276.31		7.98835	
Heptachlor	5036.10	4975.58	4387.77	4223.77	3692.65	0.50237	0.00020	3.9416e-11	0.99978	*
Heptachlor epoxide	4324.20	4347.78	3829.20	3729.38	3289.11	0.53459	0.00023	4.5838e-11	0.99976	*
Methoxychlor	1658.10	1714.92	1505.68	1493.16	1348.74		1544.12		9.40780	
Tetrachloro-m-xylene	3845.56	4274.72	4085.79	4046.92	3846.22		4019.84		4.49444	
Decachlorobiphenyl	2975.80	3233.84	3043.48	3002.17	2863.28		3023.71		4.46913	

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042363.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/Yr608.m
Sample Info : PEST MIX-10c
Lab ID : PEST MIX-10c
Inj Date : 01-MAY-2000 22:56
Operator : RCM mm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

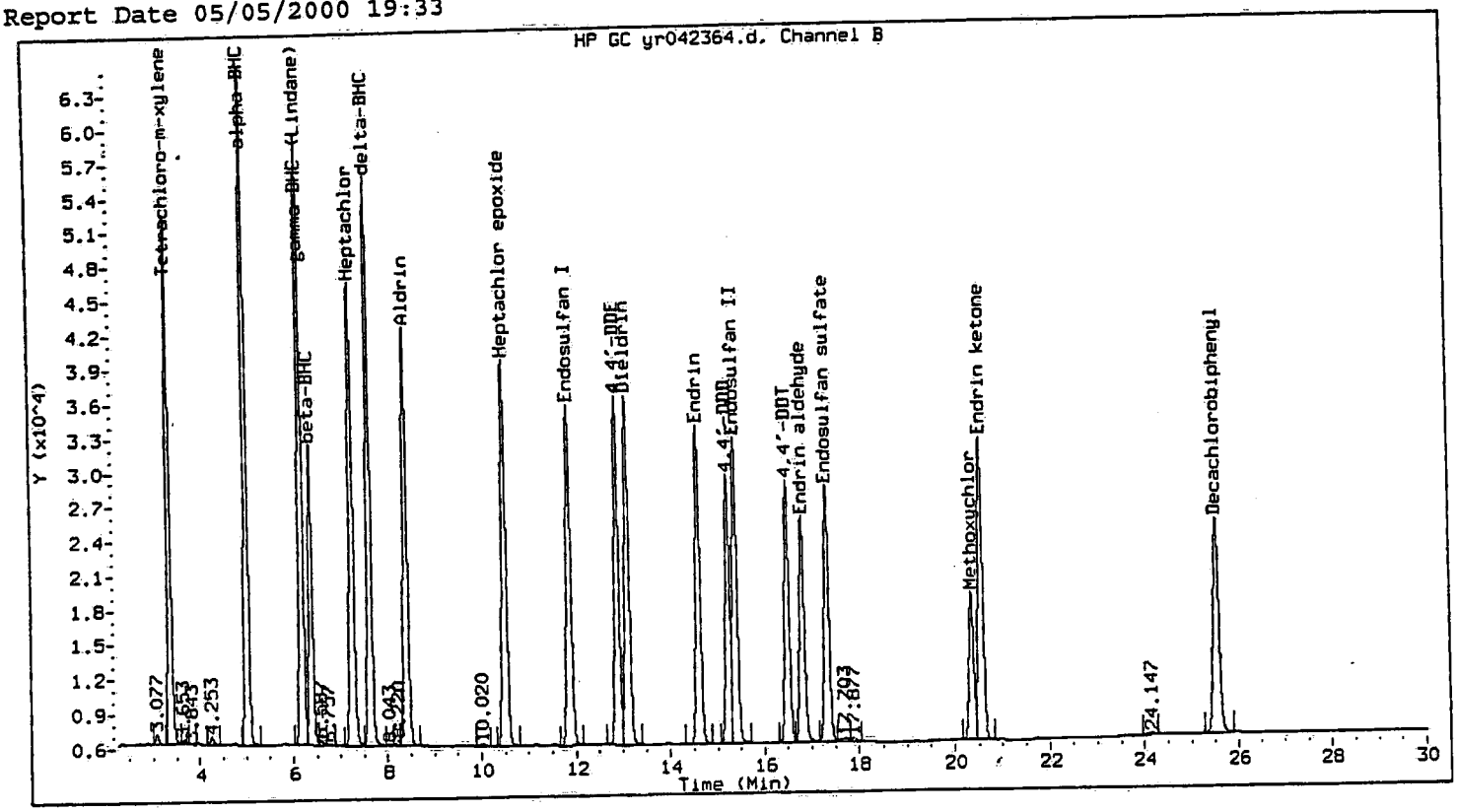
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin		8.403	8.403	0.000	42727	10.390	10.390
alpha-BHC		5.017	5.020	0.003	53278	9.982	9.982
beta-BHC		6.390	6.390	0.000	30510	10.425	10.425
delta-BHC		7.633	7.637	0.003	45214	9.797	9.797
gamma-BHC (Lindane)		6.190	6.190	0.000	51208	10.082	10.082
4,4'-DDD		15.233	15.237	0.003	26751	9.945	9.945
4,4'-DDE		12.893	12.897	0.003	33498	9.878	9.878
4,4'-DDT		16.490	16.493	0.003	26945	9.737	9.737
Dieldrin	(M)	13.113	13.117	0.003	38428	10.363	10.363

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I		11.870	11.873	0.003	39275	10.489	10.489
Endosulfan II		15.390	15.390	0.000	35979	10.902	10.902
Endosulfan sulfate		17.330	17.333	0.003	30826	10.946	10.946
Endrin		14.607	14.610	0.003	33681	10.123	10.123
Endrin aldehyde		16.803	16.803	0.000	27811	10.634	10.634
Endrin ketone		20.553	20.553	0.000	33664	10.275	10.275
Heptachlor		7.257	7.257	0.000	50361	10.543	10.543
Heptachlor epoxide		10.500	10.503	0.003	43242	10.476	10.476
Methoxychlor		20.357	20.357	0.000	16581	10.738	10.738
Tetrachloro-m-xylene	(M)	3.357	3.357	0.000	96139	23.916	23.916
Decachlorobiphenyl		25.530	25.530	0.000	74395	24.604	24.604

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042364.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/Yr608.m
Sample Info : PEST MIX-50c
Lab ID : PEST MIX-50c
Inj Date : 01-MAY-2000 23:29
Operator : RCM mim 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

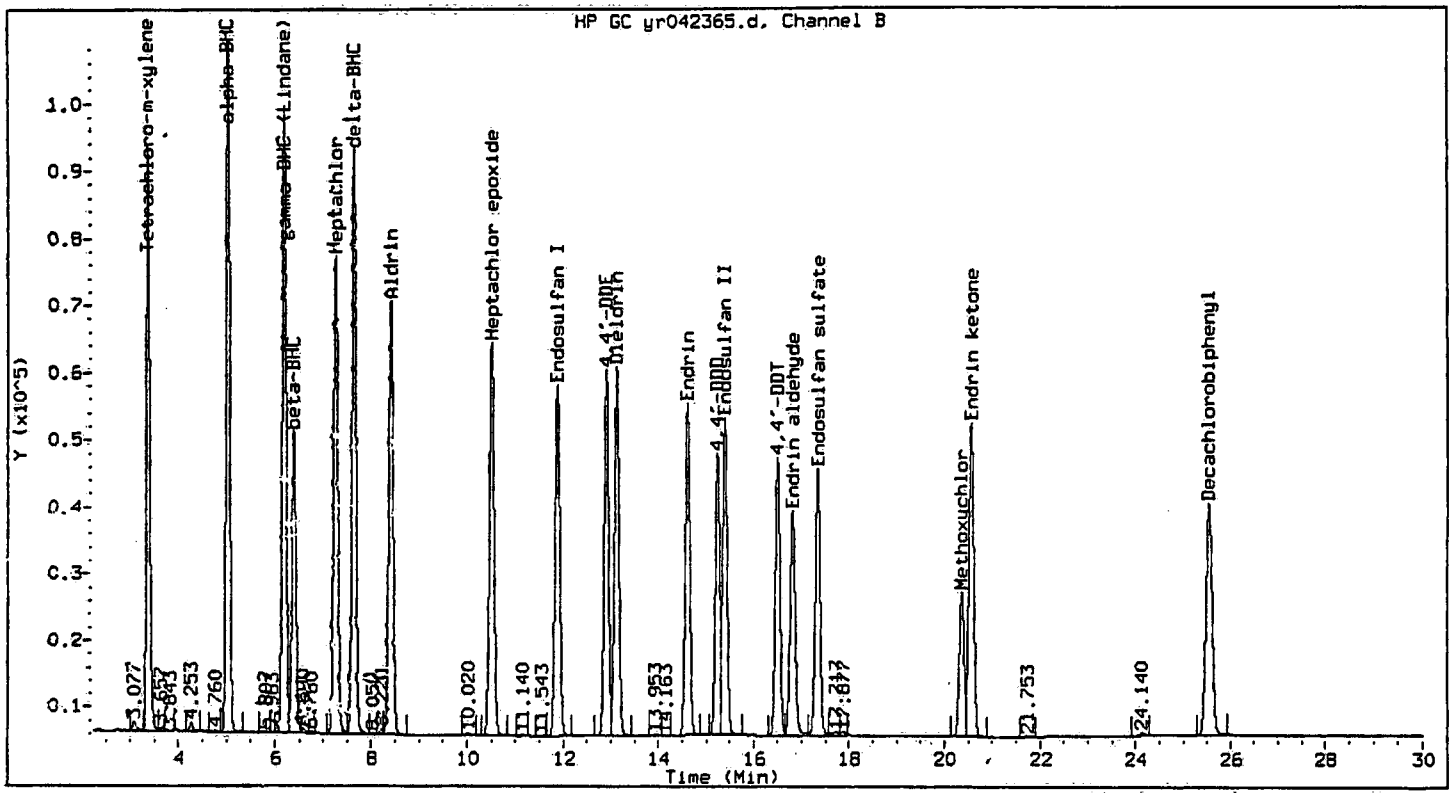
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin		8.403	8.403	0.000	228822	55.645	55.645
alpha-BHC		5.020	5.020	0.000	301219	56.434	56.434
beta-BHC	(M)	6.390	6.390	0.000	141661	52.698	52.698
delta-BHC	(M)	7.637	7.637	0.000	259400	56.205	56.205
gamma-BHC (Lindane)		6.193	6.190	0.003	277703	51.722	51.722
4,4'-DDD		15.233	15.237	0.003	146940	54.628	54.628
4,4'-DDE		12.897	12.897	0.000	185414	54.673	54.673
4,4'-DDT		16.490	16.493	0.003	149490	54.021	54.021
Dieldrin		13.113	13.117	0.003	201634	54.378	54.378

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I		11.873	11.873	0.000	198623	52.045	52.045
Endosulfan II		15.387	15.390	0.003	181326	54.944	54.944
Endosulfan sulfate	(M)	17.330	17.333	0.003	152746	54.236	54.236
Endrin		14.607	14.610	0.003	181506	54.552	54.552
Endrin aldehyde	(M)	16.803	16.803	0.000	136413	52.099	52.099
Endrin ketone		20.553	20.553	0.000	181075	55.268	55.268
Heptachlor		7.257	7.257	0.000	248779	52.049	52.049
Heptachlor epoxide		10.500	10.503	0.003	217389	52.248	52.248
Methoxychlor		20.357	20.357	0.000	85746	55.531	55.531
Tetrachloro-m-xylene	(M)	3.357	3.357	0.000	213736	53.170	53.170
Decachlorobiphenyl		25.530	25.530	0.000	161692	53.475	53.475

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042365.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/Yr608.m
Sample Info : PEST MIX-100c
Lab ID : PEST MIX-100c
Inj Date : 02-MAY-2000 00:01
Operator : RCM min. 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

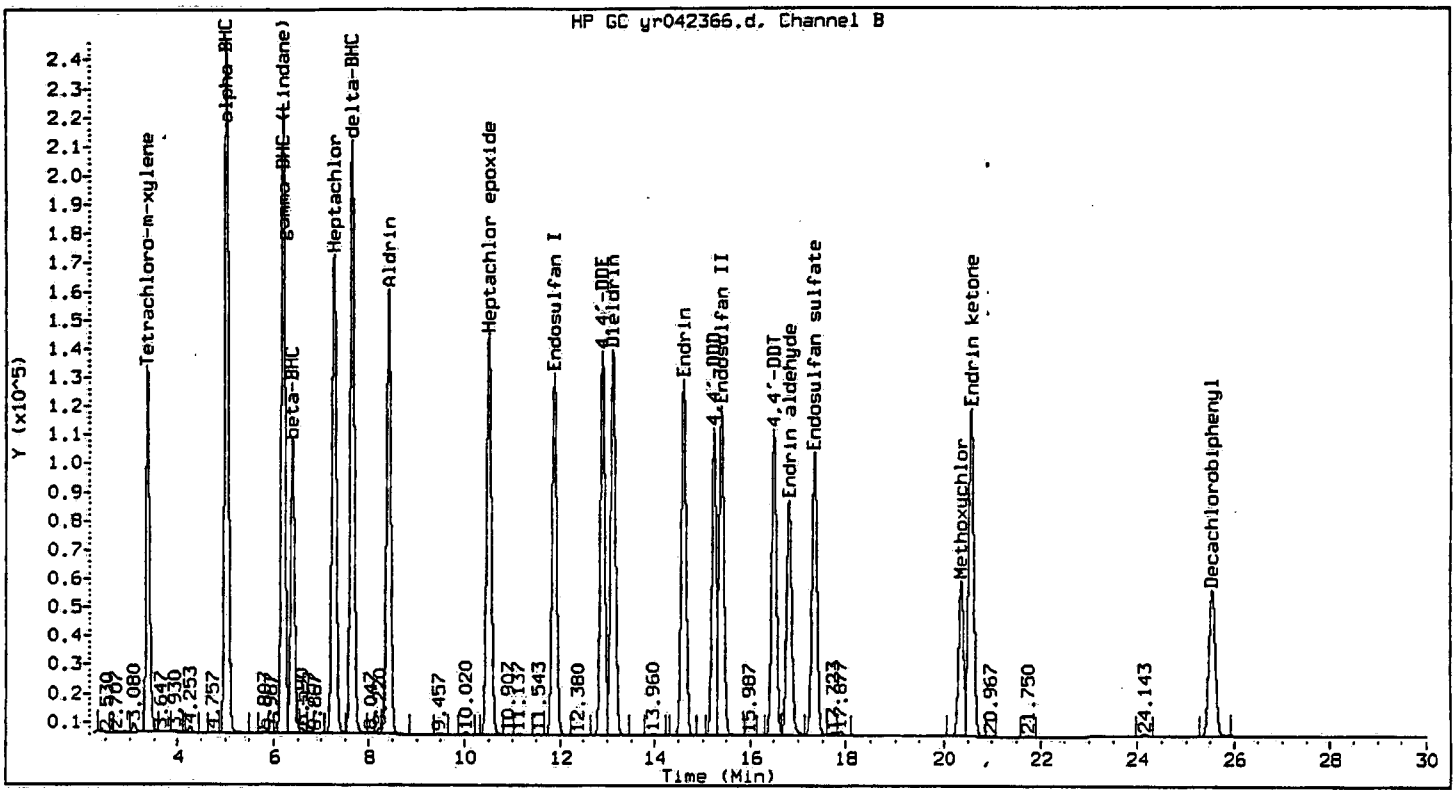
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin		8.403	8.403	0.000	409606	99.608	99.608
alpha-BHC		5.020	5.020	0.000	542636	101.665	101.665
beta-BHC	(M)	6.390	6.390	0.000	247581	96.308	96.308
delta-BHC	(M)	7.637	7.637	0.000	469743	101.781	101.781
gamma-BHC (Lindane)	(M)	6.190	6.190	0.000	495084	94.750	94.750
4,4'-DDD		15.237	15.237	0.000	268913	99.975	99.975
4,4'-DDE		12.897	12.897	0.000	337440	99.501	99.501
4,4'-DDT		16.493	16.493	0.000	273721	98.915	98.915
Dieldrin		13.117	13.117	0.000	365600	98.597	98.597

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	11.873	11.873	0.000	351789	94.529	94.529
Endosulfan II	15.390	15.390	0.000	322081	97.595	97.595
Endosulfan sulfate	17.333	17.333	0.000	273900	97.255	97.255
Endrin	14.610	14.610	0.000	330115	99.217	99.217
Endrin aldehyde	16.803	16.803	0.000	241305	94.641	94.641
Endrin ketone	20.553	20.553	0.000	325271	99.280	99.280
Heptachlor	7.257	7.257	0.000	438777	94.702	94.702
Heptachlor epoxide	10.503	10.503	0.000	382920	94.531	94.531
Methoxychlor	20.357	20.357	0.000	150568	97.511	97.511
Tetrachloro-m-xylene	3.357	3.357	0.000	408579	101.641	101.641
Decachlorobiphenyl	25.530	25.530	0.000	304348	100.654	100.654

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042366.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/Yr608.m
Sample Info : PEST MIX-250c
Lab ID : PEST MIX-250c
Inj Date : 02-MAY-2000 00:34
Operator : RCM
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

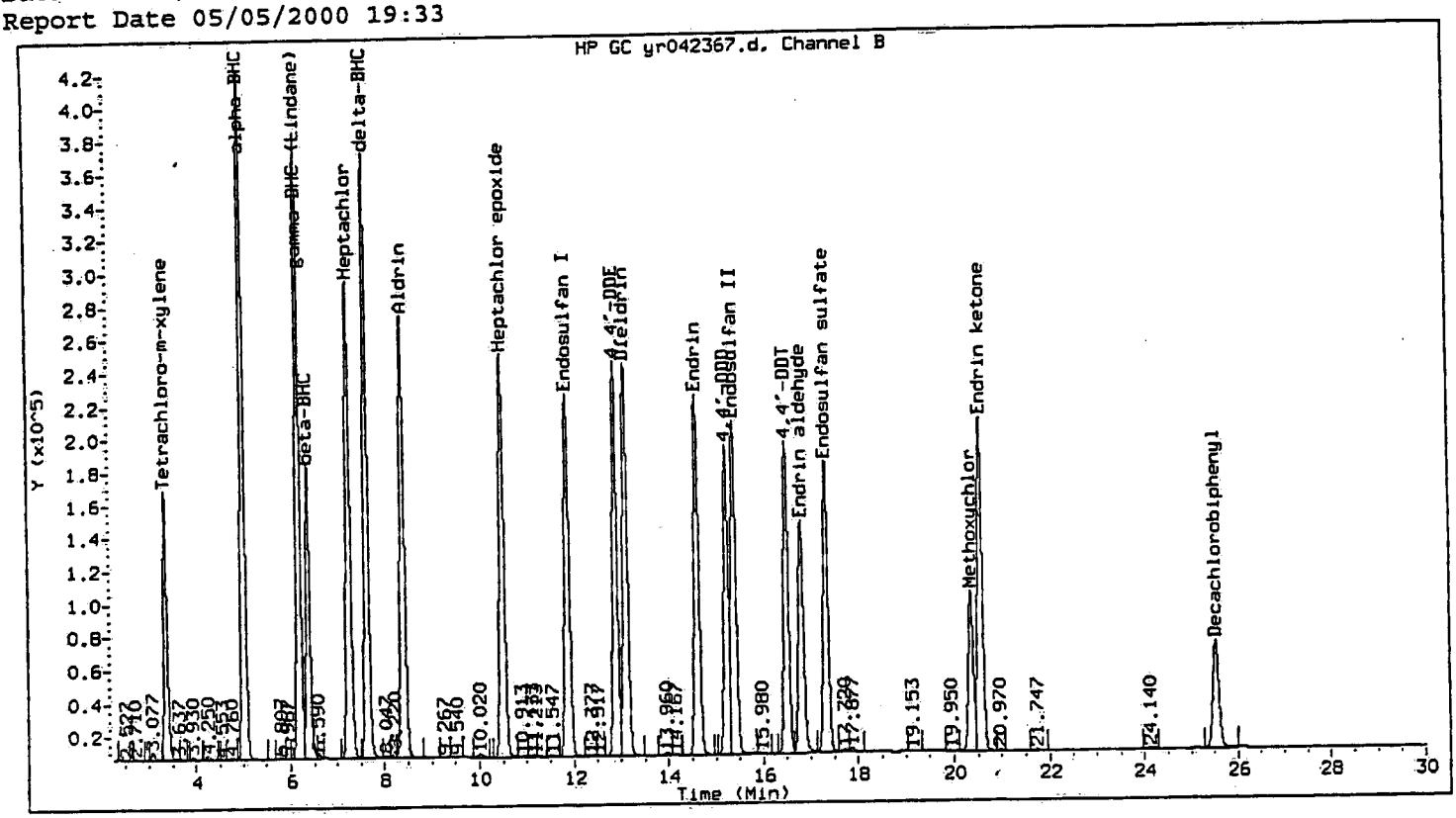
Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin		8.403	8.403	0.000	1011474	245.971	245.971
alpha-BHC		5.020	5.020	0.000	1320255	247.354	247.354
beta-BHC	(M)	6.387	6.390	0.003	574590	251.420	251.420
delta-BHC		7.633	7.637	0.003	1146262	248.366	248.366
gamma-BHC (Lindane)	(M)	6.190	6.190	0.000	1192563	253.070	253.070
4,4'-DDD		15.233	15.237	0.003	675311	251.063	251.063
4,4'-DDE		12.897	12.897	0.000	860373	253.699	253.699
4,4'-DDT		16.493	16.493	0.000	709345	256.336	256.336
Dieldrin		13.117	13.117	0.000	923196	248.972	248.972

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I		11.873	11.873	0.000	858916	252.970	252.970
Endosulfan II		15.390	15.390	0.000	800113	242.446	242.446
Endosulfan sulfate		17.330	17.333	0.003	684921	243.197	243.197
Endrin		14.610	14.610	0.000	828962	249.146	249.146
Endrin aldehyde		16.803	16.803	0.000	588309	252.844	252.844
Endrin ketone	(M)	20.553	20.553	0.000	811426	247.665	247.665
Heptachlor		7.257	7.257	0.000	1055942	252.886	252.886
Heptachlor epoxide	(M)	10.503	10.503	0.000	932344	252.879	252.879
Methoxychlor		20.357	20.357	0.000	373289	241.749	241.749
Tetrachloro-m-xylene	(M)	3.357	3.357	0.000	607038	151.010	151.010
Decachlorobiphenyl		25.530	25.530	0.000	450325	148.931	148.931

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042367.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/Yr608.m
Sample Info : PEST MIX-500c
Lab ID : PEST MIX-500c
Inj Date : 02-MAY-2000 01:06
Operator : RCM mm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
Aldrin		8.403	8.403	0.000	1784883	434.049	434.049
alpha-BHC		5.017	5.020	0.003	2313987	433.533	433.533
beta-BHC	(M)	6.387	6.390	0.003	1000316	499.703	499.703
delta-BHC		7.633	7.637	0.003	2042105	442.472	442.472
gamma-BHC (Lindane)	(M)	6.190	6.190	0.000	2080293	499.258	499.258
4,4'-DDD		15.233	15.237	0.003	1222392	454.453	454.453
4,4'-DDE		12.897	12.897	0.000	1541314	454.488	454.488
4,4'-DDT		16.490	16.493	0.003	1288672	465.687	465.687
Dieldrin		13.113	13.117	0.003	1657945	447.123	447.123

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I		11.870	11.873	0.003	1517067	499.307	499.307
Endosulfan II		15.390	15.390	0.000	1427585	432.579	432.579
Endosulfan sulfate		17.330	17.333	0.003	1232689	437.695	437.695
Endrin		14.610	14.610	0.000	1510433	453.963	453.963
Endrin aldehyde		16.803	16.803	0.000	1040653	499.343	499.343
Endrin ketone	(M)	20.553	20.553	0.000	1447610	441.842	441.842
Heptachlor		7.257	7.257	0.000	1846326	499.318	499.318
Heptachlor epoxide		10.500	10.503	0.003	1644555	499.332	499.332
Methoxychlor		20.357	20.357	0.000	674372	436.735	436.735
Tetrachloro-m-xylene	(M)	3.357	3.357	0.000	769243	191.362	191.362
Decachlorobiphenyl		25.530	25.530	0.000	572655	189.388	189.388

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC2.i Column ID: DB-1701 Confirmatory Column

Calibration Files:

/chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042363.d
/chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042364.d
/chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042365.d
/chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042366.d
/chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042367.d

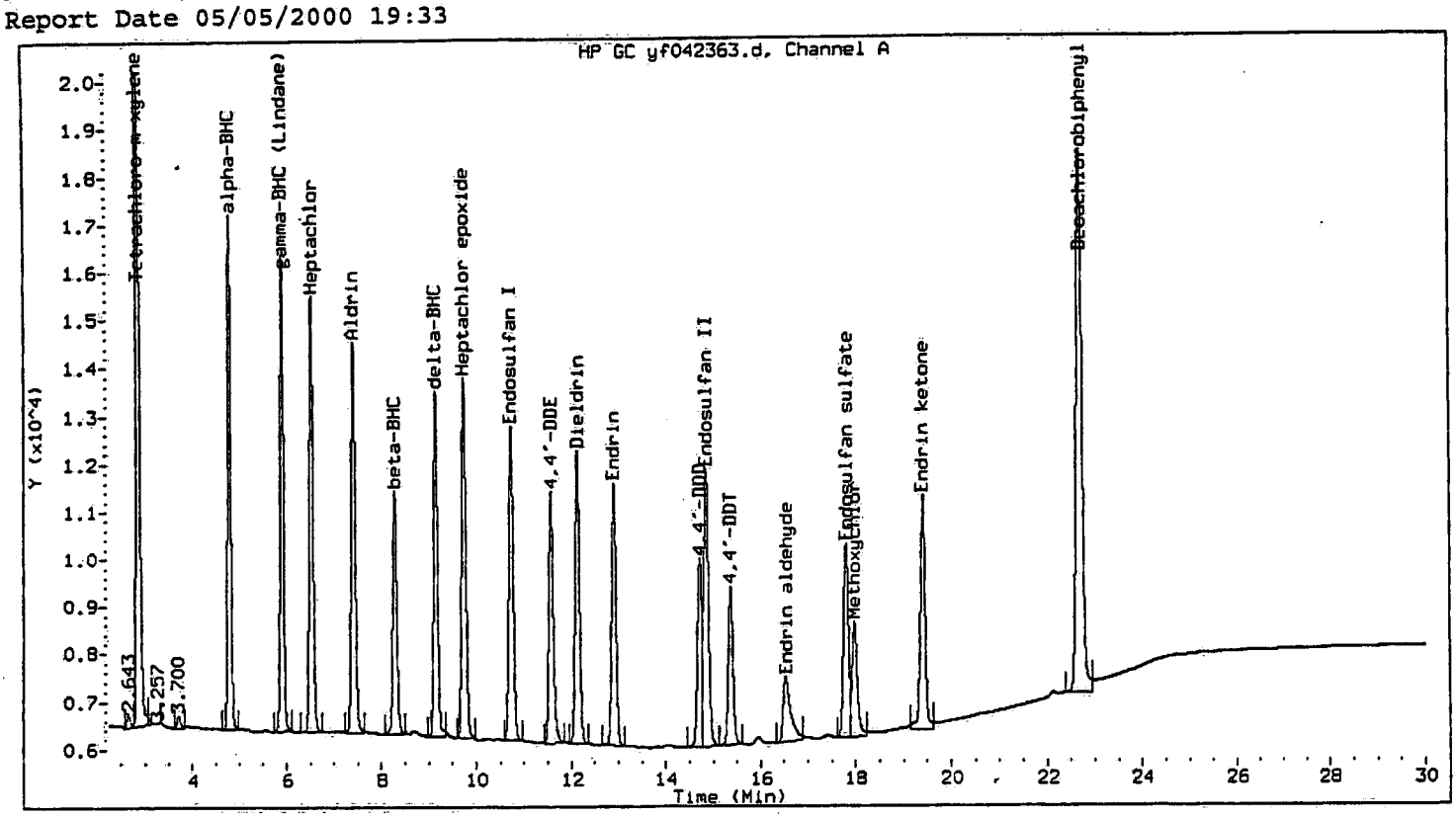
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients a0	a1	a2	%RSD or R^2
Aldrin	4438.50	5001.78	4571.12	4470.97	4014.83		4499.44		7.83300
alpha-BHC	4654.40	5683.50	5279.94	5237.26	4759.03		5122.83		8.18875
beta-BHC	2832.90	2821.32	2524.19	2366.46	2130.46	-0.76035	0.00037	9.7088e-11	0.99993 *
delta-BHC	3775.40	4609.64	4356.32	4426.05	4083.89		4250.26		7.66444
gamma-BHC (Lindane)	4699.60	5459.82	5029.72	4905.46	4433.89		4905.70		7.81225
4,4'-DDD	2407.00	2829.70	2654.41	2744.46	2554.25		2637.96		6.24982
4,4'-DDE	3407.50	3958.80	3733.24	3852.66	3558.93		3702.23		5.99159
4,4'-DDT	2193.60	2725.06	2680.77	2877.19	2750.02		2645.33		9.93692
Dieldrin	3830.40	4344.74	4022.47	4110.87	3779.80		4017.66		5.66675
Endosulfan I	4073.60	4348.24	3923.90	3868.86	3502.64		3943.45		7.82685
Endosulfan II	4019.50	4208.80	3870.09	3813.85	3452.87		3873.02		7.23690
Endosulfan sulfate	2698.00	2833.26	2641.52	2714.32	2549.33		2687.29		3.87084
Endrin	3429.40	3829.62	3585.12	3665.66	3392.40		3580.44		4.98736
Endrin aldehyde	1582.20	1639.10	1479.59	1461.76	1375.97		1507.72		6.88239
Endrin ketone	3238.70	3629.94	3361.42	3377.16	3106.53		3342.75		5.80542
Heptachlor	4848.80	4987.74	4504.49	4353.55	3909.05		4520.73		9.43745
Heptachlor epoxide	4487.90	4742.36	4268.53	4144.53	3738.41		4276.35		8.81763
Methoxychlor	1756.40	1758.52	1640.21	1631.26	1520.00		1661.28		6.00507
Tetrachloro-m-xylene	3682.20	4108.44	4016.63	3947.35	3863.11		3923.54		4.13564
Decachlorobiphenyl	3541.20	3815.18	3690.48	3600.38	3513.57		3632.16		3.37882

Comments:

* = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.

Data File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042363.d Page 1
Report Date 05/05/2000 19:33



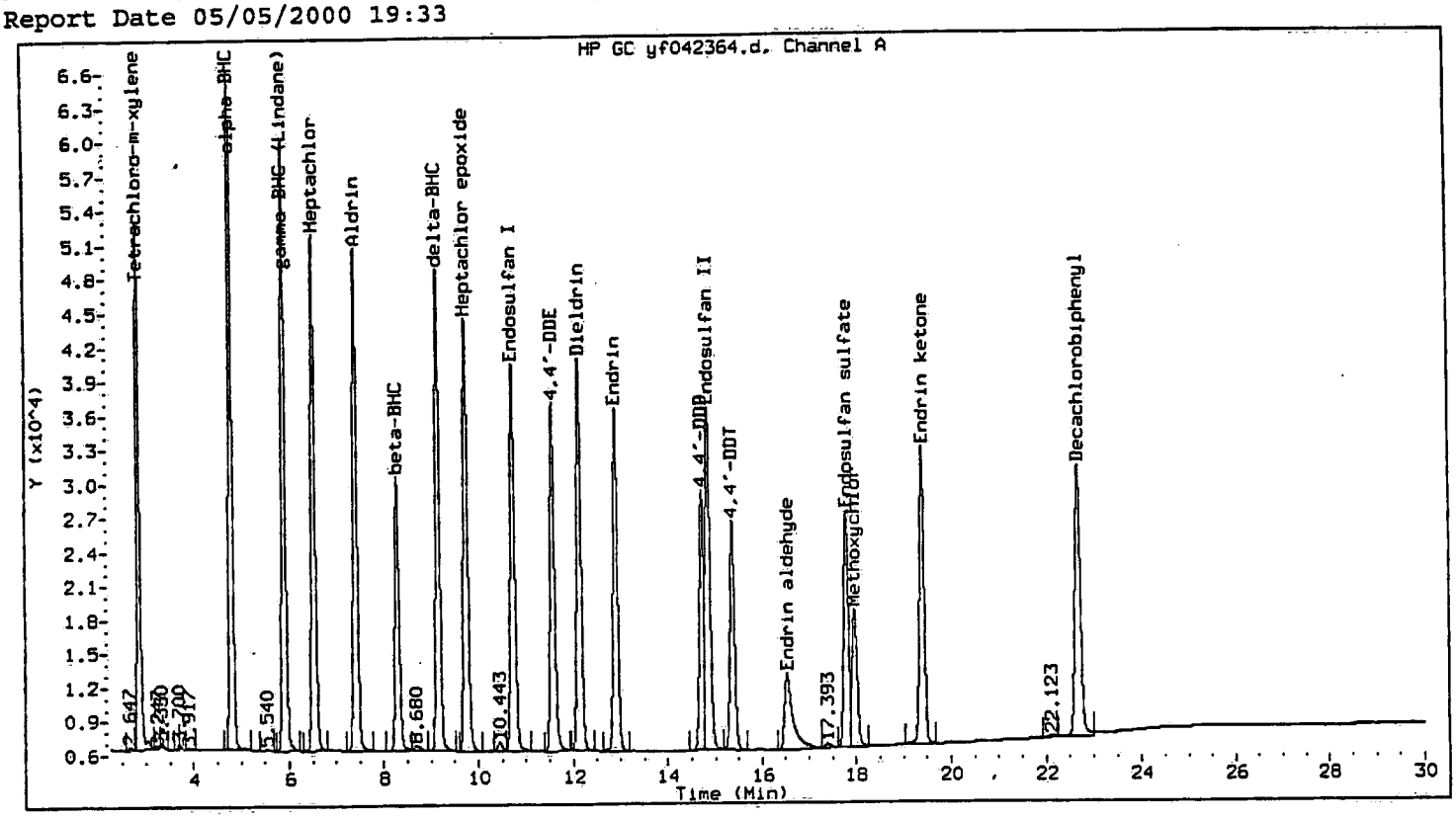
Method : /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/Yf608.m
Sample Info : PEST MIX-10c
Lab ID : PEST MIX-10c
Inj Date : 01-MAY-2000 22:56
Operator : RCM mjm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin	7.410	7.413	0.003	44747	9.929	9.929
alpha-BHC	4.797	4.797	0.000	46544	9.086	9.086
beta-BHC	8.287	8.287	0.000	28608	9.772	9.772
delta-BHC	9.150	9.153	0.003	38153	8.960	8.960
gamma-BHC (Lindane)	5.903	5.907	0.003	46996	9.580	9.580
4,4'-DDD	14.717	14.720	0.003	24070	9.125	9.125
4,4'-DDE	11.570	11.573	0.003	33768	9.136	9.136
4,4'-DDT	15.370	15.373	0.003	21936	8.293	8.293
Dieldrin	12.133	12.133	0.000	38219	9.517	9.517

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I	10.733	10.733	0.000	40736	10.330	10.330
Endosulfan II	14.850	14.850	0.000	40195	10.378	10.378
Endosulfan sulfate	17.793	17.793	0.000	27178	10.099	10.099
Endrin	12.903	12.907	0.003	34399	9.602	9.602
Endrin aldehyde	16.530	16.530	0.000	14994	10.055	10.055
Endrin ketone	19.393	19.397	0.003	34820	10.267	10.267
Heptachlor	6.530	6.530	0.000	48488	10.726	10.726
Heptachlor epoxide	9.740	9.743	0.003	44879	10.495	10.495
Methoxychlor	17.970	17.967	0.003	18555	11.038	11.038
Tetrachloro-m-xylene	2.840	2.840	0.000	92684	23.592	23.592
Decachlorobiphenyl	22.670	22.670	0.000	92226	25.187	25.187

Data File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042364.d Page 1
Report Date 05/05/2000 19:33



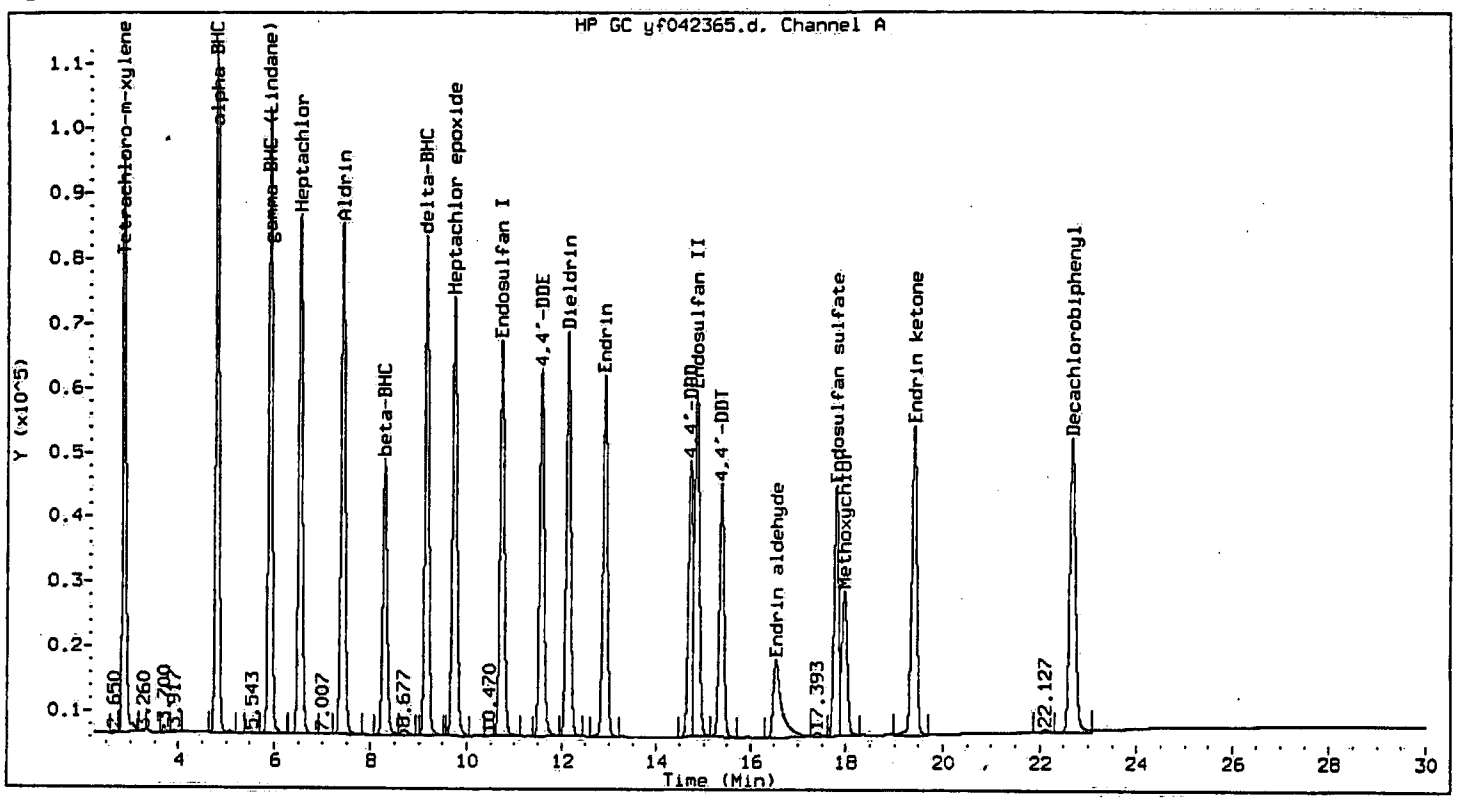
Method : /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/Yf608.m
Sample Info : PEST MIX-50c
Lab ID : PEST MIX-50c
Inj Date : 01-MAY-2000 23:29
Operator : RCM mjm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin	7.413	7.413	0.000	250089	55.493	55.493
alpha-BHC	4.797	4.797	0.000	284837	55.573	55.573
beta-BHC	8.287	8.287	0.000	141066	52.876	52.876
delta-BHC	9.153	9.153	0.000	230482	54.126	54.126
gamma-BHC (Lindane)	5.907	5.907	0.000	272991	55.648	55.648
4,4'-DDD	14.720	14.720	0.000	139508	53.044	53.044
4,4'-DDE	11.573	11.573	0.000	197600	53.482	53.482
4,4'-DDT	15.373	15.373	0.000	135092	51.158	51.158
Dieldrin	12.133	12.133	0.000	216534	53.956	53.956

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I	10.733	10.733	0.000	217412	55.132	55.132
Endosulfan II	14.850	14.850	0.000	207491	53.737	53.737
Endosulfan sulfate	17.793	17.793	0.000	141457	52.578	52.578
Endrin	12.907	12.907	0.000	192006	53.564	53.564
Endrin aldehyde	16.530	16.530	0.000	81955	54.961	54.961
Endrin ketone	19.397	19.397	0.000	183822	54.054	54.054
Heptachlor	6.530	6.530	0.000	249387	55.165	55.165
Heptachlor epoxide	9.743	9.743	0.000	237118	55.449	55.449
Methoxychlor	17.967	17.967	0.000	88911	52.765	52.765
Tetrachloro-m-xylene	2.837	2.840	0.003	209129	53.033	53.033
Decachlorobiphenyl	22.673	22.670	0.003	196228	53.271	53.271

Data File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042365.d Page 1
Report Date 05/05/2000 19:33



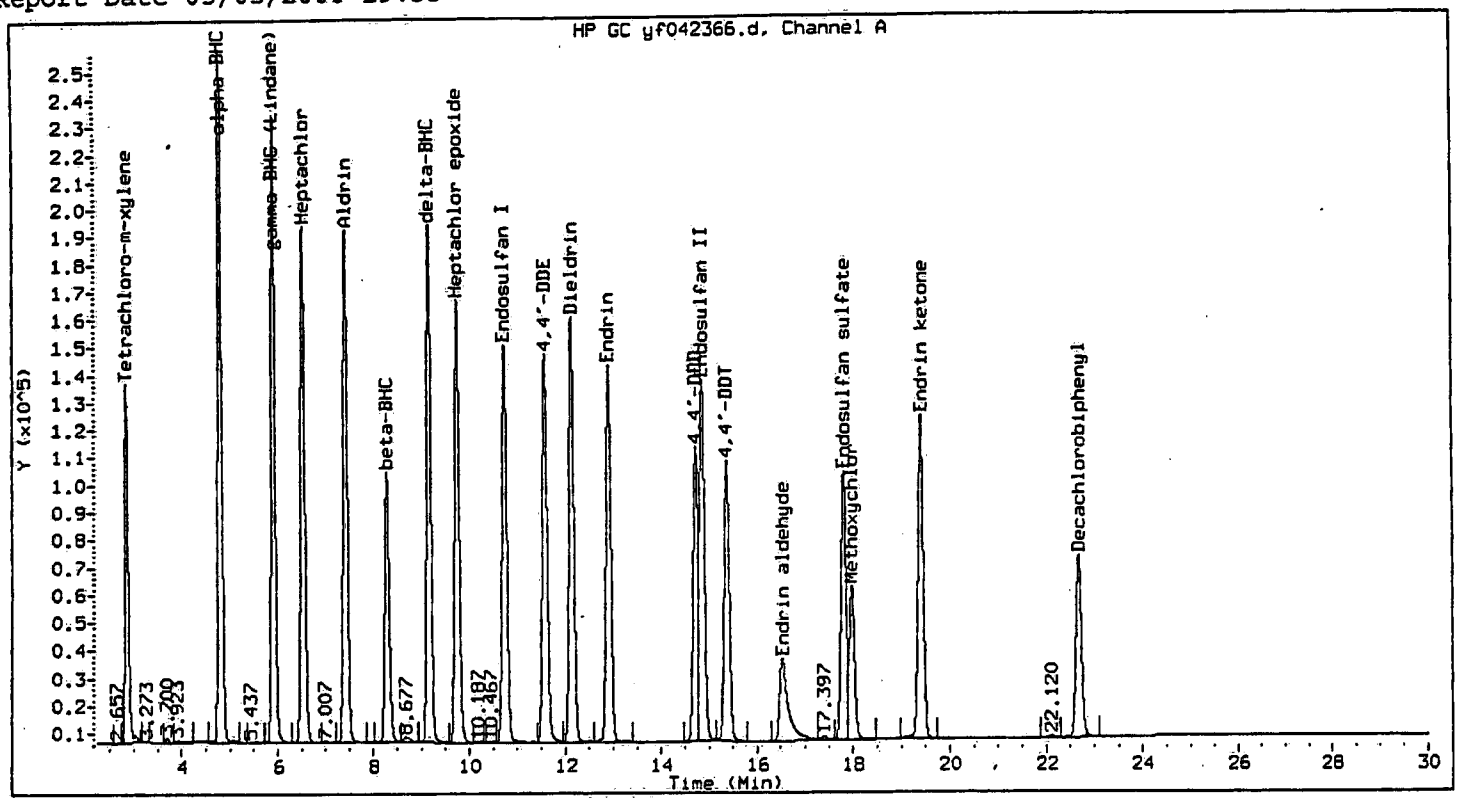
Method : /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/Yf608.m
Sample Info : PEST MIX-100c
Lab ID : PEST MIX-100c
Inj Date : 02-MAY-2000 00:01
Operator : RCM mjm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin	7.413	7.413	0.000	457112	101.430	101.430
alpha-BHC	4.797	4.797	0.000	530403	103.387	103.387
beta-BHC	8.287	8.287	0.000	252419	97.974	97.974
delta-BHC	9.153	9.153	0.000	435632	102.303	102.303
gamma-BHC (Lindane)	5.907	5.907	0.000	502972	102.528	102.528
4,4'-DDD	14.720	14.720	0.000	261408	99.698	99.698
4,4'-DDE	11.573	11.573	0.000	373324	101.042	101.042
4,4'-DDT	15.373	15.373	0.000	265164	100.637	100.637
Dieldrin	12.133	12.133	0.000	402559	100.295	100.295

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Endosulfan I	10.733	10.733	0.000	392390	99.504	99.504
Endosulfan II	14.850	14.850	0.000	381076	98.997	98.997
Endosulfan sulfate	17.793	17.793	0.000	263510	97.991	97.991
Endrin	12.907	12.907	0.000	359597	100.255	100.255
Endrin aldehyde	16.530	16.530	0.000	147774	99.125	99.125
Endrin ketone	19.397	19.397	0.000	341408	100.083	100.083
Heptachlor	6.530	6.530	0.000	451084	99.753	99.753
Heptachlor epoxide	9.743	9.743	0.000	426853	99.817	99.817
Methoxychlor	17.967	17.967	0.000	164702	97.665	97.665
Tetrachloro-m-xylene	2.840	2.840	0.000	407899	103.112	103.112
Decachlorobiphenyl	22.670	22.670	0.000	374517	101.371	101.371

Data File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042366.d Page 1
Report Date 05/05/2000 19:33



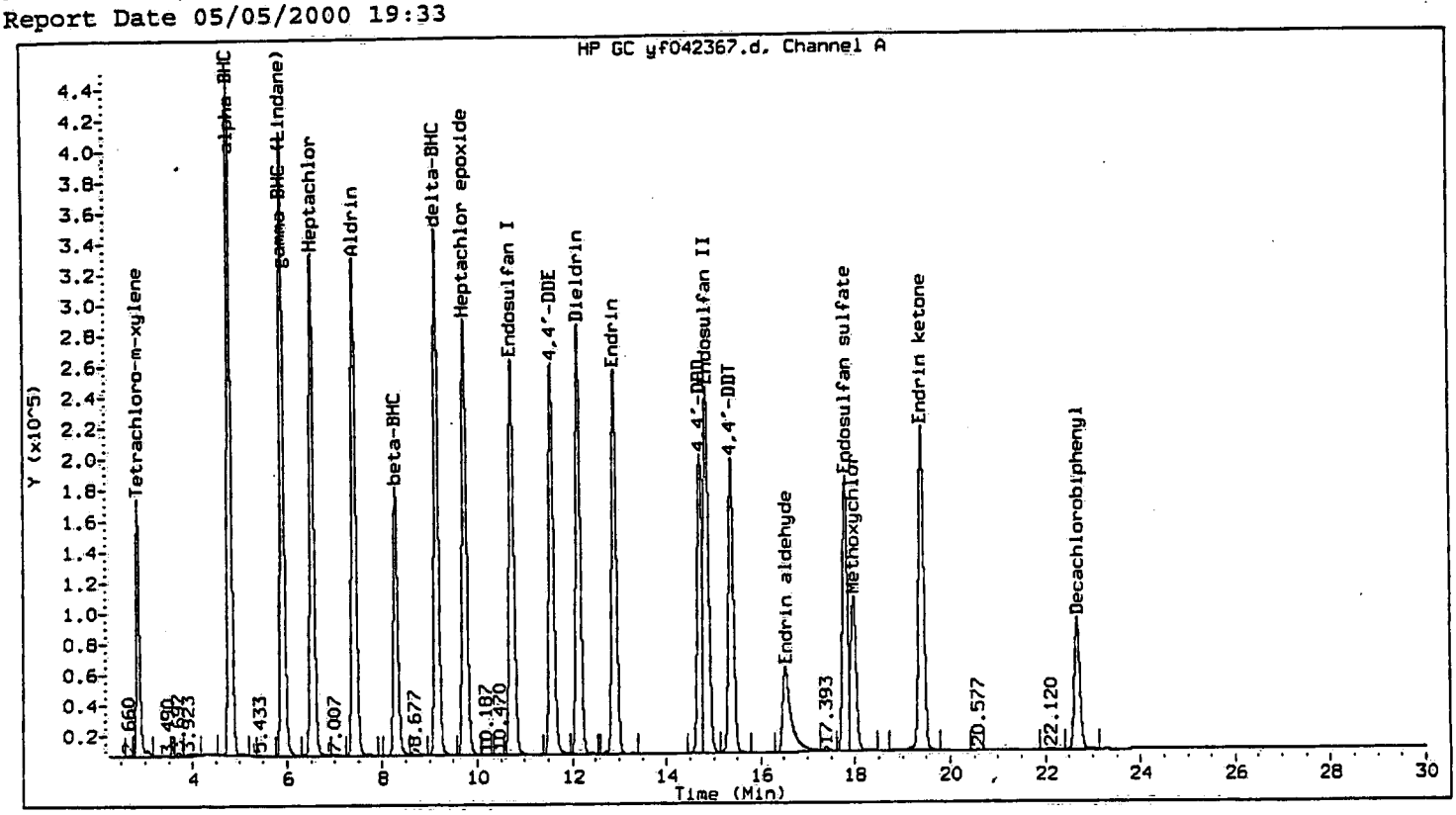
Method : /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/Yf608.m
Sample Info : PEST MIX-250c
Lab ID : PEST MIX-250c
Inj Date : 02-MAY-2000 00:34
Operator : RCM
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin	7.413	7.413	0.000	1118073	248.078	248.078
alpha-BHC	4.797	4.797	0.000	1321460	257.093	257.093
beta-BHC	8.287	8.287	0.000	593153	250.428	250.428
delta-BHC	9.153	9.153	0.000	1107496	260.035	260.035
gamma-BHC (Lindane)	5.907	5.907	0.000	1226366	249.988	249.988
4,4'-DDD	14.720	14.720	0.000	675995	258.616	258.616
4,4'-DDE	11.577	11.573	0.003	961574	260.346	260.346
4,4'-DDT	15.373	15.373	0.000	713861	271.378	271.378
Dieldrin	12.137	12.133	0.003	1028783	256.259	256.259

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	10.733	10.733	0.000	969313	245.699	245.699
Endosulfan II	14.853	14.850	0.003	939971	244.876	244.876
Endosulfan sulfate	17.797	17.793	0.003	678211	252.232	252.232
Endrin	12.907	12.907	0.000	920854	256.480	256.480
Endrin aldehyde	16.533	16.530	0.003	368117	246.573	246.573
Endrin ketone	19.397	19.397	0.000	854773	249.961	249.961
Heptachlor	6.530	6.530	0.000	1088387	240.687	240.687
Heptachlor epoxide	9.743	9.743	0.000	1036132	242.294	242.294
Methoxychlor	17.970	17.967	0.003	413614	244.592	244.592
Tetrachloro-m-xylene	2.840	2.840	0.000	605122	152.300	152.300
Decachlorobiphenyl	22.673	22.670	0.003	543362	146.896	146.896

Data File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042367.d Page 1
Report Date 05/05/2000 19:33



Method : /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/Yf608.m
Sample Info : PEST MIX-500c
Lab ID : PEST MIX-500c
Inj Date : 02-MAY-2000 01:06
Operator : RCM mm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Aldrin	7.413	7.413	0.000	2008575	445.616	445.616
alpha-BHC	4.797	4.797	0.000	2405986	467.128	467.128
beta-BHC	8.283	8.287	0.003	1067838	499.979	499.979
delta-BHC	9.153	9.153	0.000	2043463	479.728	479.728
gamma-BHC (Lindane)	5.903	5.907	0.003	2216947	451.913	451.913
4,4'-DDD	14.717	14.720	0.003	1259487	483.147	483.147
4,4'-DDE	11.573	11.573	0.000	1777263	481.308	481.308
4,4'-DDT	15.373	15.373	0.000	1367600	520.486	520.486
Dieldrin	12.133	12.133	0.000	1891637	471.106	471.106

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I	10.733	10.733	0.000	1754682	444.621	444.621
Endosulfan II	14.850	14.850	0.000	1704188	444.996	444.996
Endosulfan sulfate	17.797	17.793	0.003	1275216	474.223	474.223
Endrin	12.907	12.907	0.000	1704415	474.286	474.286
Endrin aldehyde	16.530	16.530	0.000	696236	465.325	465.325
Endrin ketone	19.393	19.397	0.003	1578116	460.150	460.150
Heptachlor	6.530	6.530	0.000	1954512	432.224	432.224
Heptachlor epoxide	9.743	9.743	0.000	1869206	437.104	437.104
Methoxychlor	17.970	17.967	0.003	771394	454.940	454.940
Tetrachloro-m-xylene	2.837	2.840	0.003	800780	200.125	200.125
Decachlorobiphenyl	22.673	22.670	0.003	704518	190.372	190.372

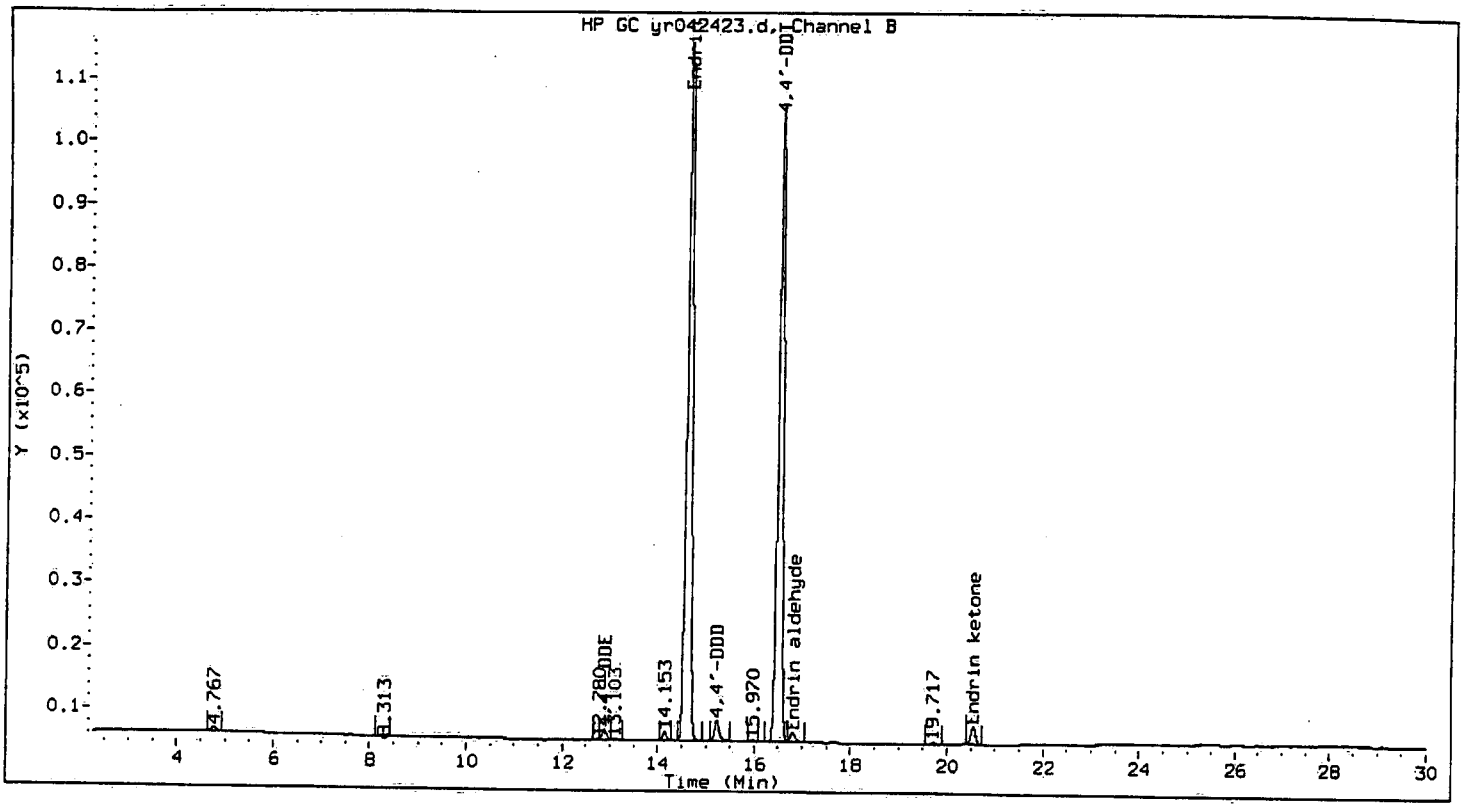
Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : END/DDTb
Lab ID : END/DDTb
Inj Date : 03-MAY-2000 08:57
Operator : RCM
Cpnd Sublist: END_DDT

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER

Endrin/DDT Breakdown Report

Compounds	Breakdown
DDT	4.70%
Endrin	3.58%

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042423.d Page 1
Report Date 05/05/2000 22:42



Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : END/DDTb
Lab ID : END/DDTb
Inj Date : 03-MAY-2000 08:57
Operator : RCM mjm 05/05/00
Cpnd Sublist: END_DDT

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: END/DDT

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
4,4'-DDD	(M)	15.233	15.230	0.003	22238	8.267	0.041
4,4'-DDE	(M)	12.890	12.890	0.000	11315	3.336	0.017
4,4'-DDT		16.487	16.487	0.000	680075	245.759	1.229
Endrin	(M)	14.603	14.603	0.000	826720	248.472	1.242
Endrin aldehyde		16.803	16.797	0.007	11240	4.539	0.023
Endrin ketone	(M)	20.547	20.547	0.000	19432	5.931	0.030

COMMENTS:

M - Compound response manually integrated.

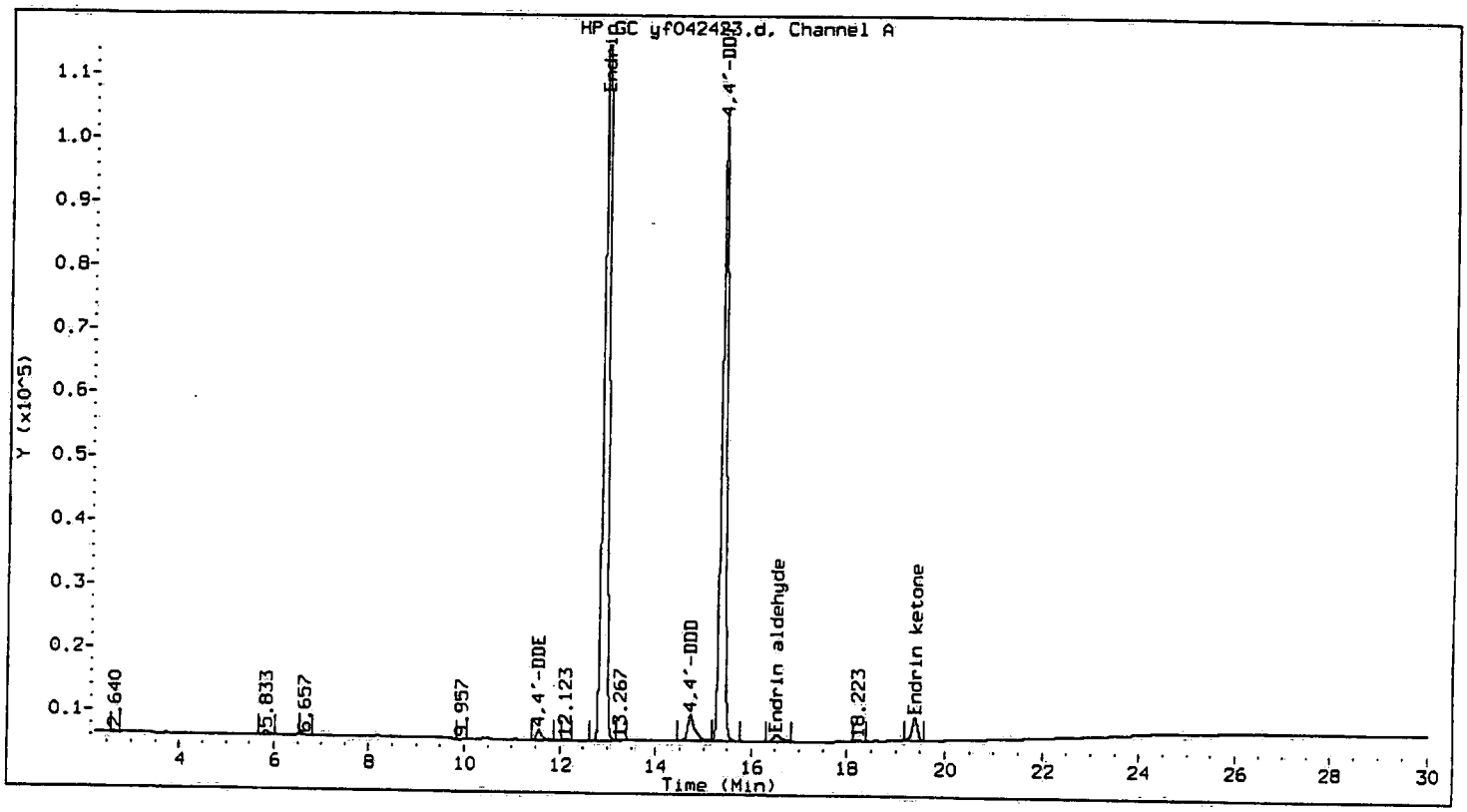
Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : END/DDTb
Lab ID : END/DDTb
Inj Date : 03-MAY-2000 08:57
Operator : RCM
Cpnd Sublist: END_DDT

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER

Endrin/DDT Breakdown Report

Compounds	Breakdown
DDT	7.62%
Endrin	4.03%

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042423.d Page 1
Report Date 05/05/2000 22:43



Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : END/DDTb
Lab ID : END/DDTb
Inj Date : 03-MAY-2000 08:57
Operator : RCM mjm 05/05/00
Cpnd Sublist: END_DDT

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: END/DDT

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
4,4'-DDD	(M)	14.723	14.713	0.010	45031	17.070	0.085
4,4'-DDE	(M)	11.570	11.567	0.003	11300	3.052	0.015
4,4'-DDT	(M)	15.367	15.363	0.003	682733	258.090	1.290
Endrin	(M)	12.900	12.900	0.000	904516	252.627	1.263
Endrin aldehyde		16.527	16.520	0.007	11395	7.558	0.038
Endrin ketone	(M)	19.383	19.387	0.003	26570	7.949	0.040

COMMENTS:

M - Compound response manually integrated.

SINGLE COMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042424.d
Method: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m

Sample Information: PEST MIX-100b
Injection Date: 03-MAY-2000 09:29

Compound	Exp Conc	Actual Conc	Percent Diff.
Aldrin	100	101.75	1.75
alpha-BHC	100	104.60	4.60
beta-BHC	100	99.93	0.07
delta-BHC	100	106.05	6.05
gamma-BHC (Lindane)	100	97.86	2.14
4,4'-DDD	100	104.18	4.18
4,4'-DDE	100	103.20	3.20
4,4'-DDT	100	103.76	3.76
Dieldrin	100	101.89	1.89
Endosulfan I	100	98.59	1.41
Endosulfan II	100	101.03	1.03
Endosulfan sulfate	100	99.68	0.32
Endrin	100	102.38	2.38
Endrin aldehyde	100	100.28	0.28
Endrin ketone	100	104.82	4.82
Heptachlor	100	99.84	0.16
Heptachlor epoxide	100	98.30	1.70
Methoxychlor	100	103.98	3.98
Tetrachloro-m-xylene	100	104.13	4.13
Decachlorobiphenyl	100	104.71	4.71

GC ORGANICS RETENTION TIME CHECK

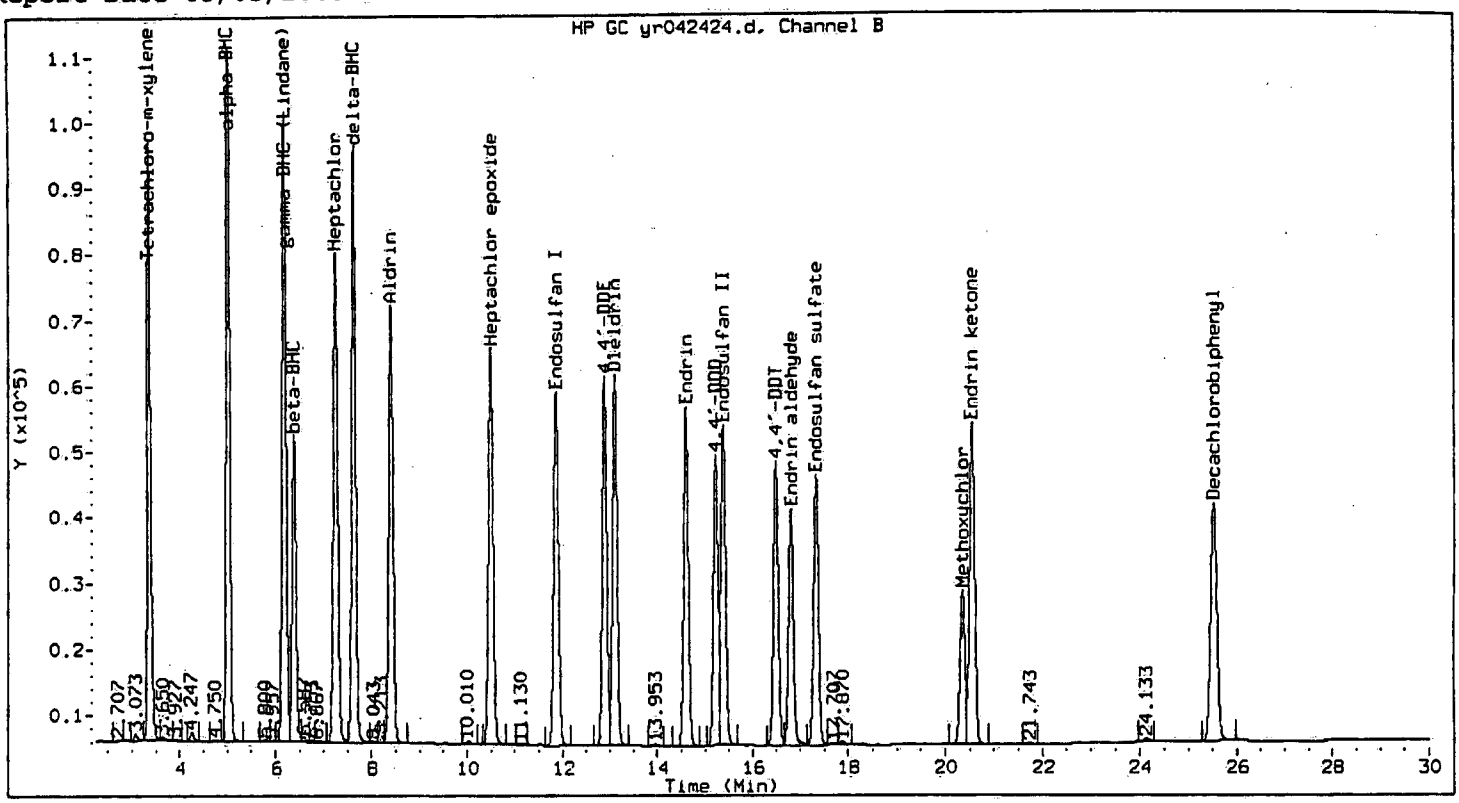
Instrument ID: PESTGC2.i

Midpoint Calibration File: /chem1/PESTGC2.i/608/rear/May00/05-01-00/01may00c.b/yr042365.d
Injection Date: 02-MAY-2000 00:01

Continuing Calibration File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042424.d
Injection Date: 03-MAY-2000 09:29

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aldrin	8.403	(8.353 - 8.453)	8.397	
alpha-BHC	5.020	(4.970 - 5.070)	5.013	
beta-BHC	6.390	(6.340 - 6.440)	6.383	
delta-BHC	7.637	(7.587 - 7.687)	7.630	
gamma-BHC (Lindane)	6.190	(6.140 - 6.240)	6.187	
4,4'-DDD	15.237	(15.167 - 15.307)	15.230	
4,4'-DDE	12.897	(12.827 - 12.967)	12.890	
4,4'-DDT	16.493	(16.423 - 16.563)	16.487	
Dieldrin	13.117	(13.047 - 13.187)	13.110	
Endosulfan I	11.873	(11.803 - 11.943)	11.867	
Endosulfan II	15.390	(15.320 - 15.460)	15.383	
Endosulfan sulfate	17.333	(17.263 - 17.403)	17.323	
Endrin	14.610	(14.540 - 14.680)	14.603	
Endrin aldehyde	16.803	(16.733 - 16.873)	16.797	
Endrin ketone	20.553	(20.483 - 20.623)	20.547	
Heptachlor	7.257	(7.207 - 7.307)	7.250	
Heptachlor epoxide	10.503	(10.433 - 10.573)	10.497	
Methoxychlor	20.357	(20.287 - 20.427)	20.350	
Tetrachloro-m-xylene	3.357	(3.307 - 3.407)	3.353	
Decachlorobiphenyl	25.530	(25.430 - 25.630)	25.523	

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042424.d Page 1
Report Date 05/05/2000 22:42



Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : PEST MIX-100b
Lab ID : PEST MIX-100b
Inj Date : 03-MAY-2000 09:29
Operator : RCM mjm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		8.397	8.397	0.000	418412	101.750	101.750
alpha-BHC		5.013	5.013	0.000	558287	104.597	104.597
beta-BHC	(M)	6.383	6.383	0.000	256034	99.928	99.928
delta-BHC	(M)	7.630	7.630	0.000	489436	106.048	106.048
gamma-BHC (Lindane)	(M)	6.187	6.187	0.000	510218	97.857	97.857
4,4'-DDD		15.230	15.230	0.000	280218	104.178	104.178
4,4'-DDE		12.890	12.890	0.000	349991	103.202	103.202
4,4'-DDT		16.487	16.487	0.000	287116	103.755	103.755
Dieldrin		13.110	13.110	0.000	377818	101.892	101.892

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		11.867	11.867	0.000	365987	98.594	98.594
Endosulfan II		15.383	15.383	0.000	333416	101.030	101.030
Endosulfan sulfate		17.323	17.323	0.000	280724	99.678	99.678
Endrin		14.603	14.603	0.000	340650	102.383	102.383
Endrin aldehyde		16.797	16.797	0.000	254769	100.280	100.280
Endrin ketone		20.547	20.547	0.000	343421	104.820	104.820
Heptachlor		7.250	7.250	0.000	460859	99.844	99.844
Heptachlor epoxide		10.497	10.497	0.000	397224	98.302	98.302
Methoxychlor		20.350	20.350	0.000	160561	103.982	103.982
Tetrachloro-m-xylene	(M)	3.353	3.353	0.000	418583	104.129	104.129
Decachlorobiphenyl	(M)	25.523	25.523	0.000	316609	104.709	104.709

COMMENTS:

M - Compound response manually integrated.

SINGLE COMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042424.d
Method: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m

Sample Information: PEST MIX-100b
Injection Date: 03-MAY-2000 09:29

Compound	Exp Conc	Actual Conc	Percent Diff.
Aldrin	100	108.73	8.73
alpha-BHC	100	109.99	9.99
beta-BHC	100	104.43	4.43
delta-BHC	100	111.15	11.15
gamma-BHC (Lindane)	100	109.27	9.27
4,4'-DDD	100	109.65	9.65
4,4'-DDE	100	108.87	8.87
4,4'-DDT	100	107.35	7.35
Dieldrin	100	107.86	7.86
Endosulfan I	100	106.84	6.84
Endosulfan II	100	104.85	4.85
Endosulfan sulfate	100	106.55	6.55
Endrin	100	107.59	7.59
Endrin aldehyde	100	104.21	4.21
Endrin ketone	100	108.28	8.28
Heptachlor	100	108.08	8.08
Heptachlor epoxide	100	106.96	6.96
Methoxychlor	100	108.02	8.02
Tetrachloro-m-xylene	100	109.52	9.52
Decachlorobiphenyl	100	109.17	9.17

GC ORGANICS RETENTION TIME CHECK

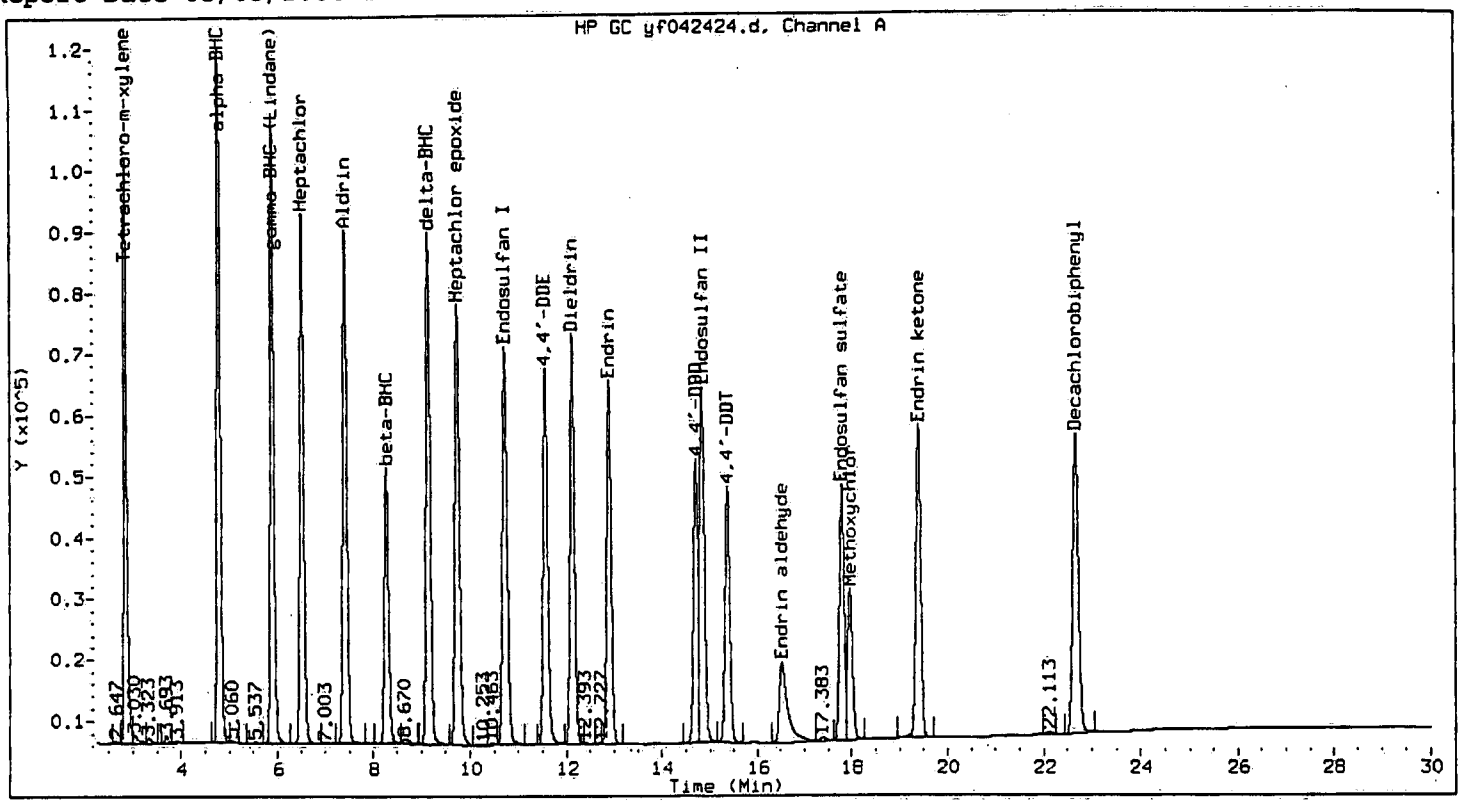
Instrument ID: PESTGC2.i

Midpoint Calibration File: /chem1/PESTGC2.i/608/front/May00/05-01-00/01may00c.b/yf042365.d
Injection Date: 02-MAY-2000 00:01

Continuing Calibration File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042424.d
Injection Date: 03-MAY-2000 09:29

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aldrin	7.413	(7.363 - 7.463)	7.410	
alpha-BHC	4.797	(4.747 - 4.847)	4.793	
beta-BHC	8.287	(8.237 - 8.337)	8.280	
delta-BHC	9.153	(9.103 - 9.203)	9.147	
gamma-BHC (Lindane)	5.907	(5.857 - 5.957)	5.900	
4,4'-DDD	14.720	(14.650 - 14.790)	14.713	
4,4'-DDE	11.573	(11.503 - 11.643)	11.567	
4,4'-DDT	15.373	(15.303 - 15.443)	15.363	
Dieldrin	12.133	(12.063 - 12.203)	12.127	
Endosulfan I	10.733	(10.663 - 10.803)	10.727	
Endosulfan II	14.850	(14.780 - 14.920)	14.843	
Endosulfan sulfate	17.793	(17.723 - 17.863)	17.783	
Endrin	12.907	(12.837 - 12.977)	12.900	
Endrin aldehyde	16.530	(16.460 - 16.600)	16.520	
Endrin ketone	19.397	(19.327 - 19.467)	19.387	
Heptachlor	6.530	(6.480 - 6.580)	6.523	
Heptachlor epoxide	9.743	(9.673 - 9.813)	9.737	
Methoxychlor	17.967	(17.897 - 18.037)	17.960	
Tetrachloro-m-xylene	2.840	(2.790 - 2.890)	2.837	
Decachlorobiphenyl	22.670	(22.570 - 22.770)	22.667	

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042424.d Page 1
Report Date 05/05/2000 22:43



Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : PEST MIX-100b
Lab ID : PEST MIX-100b
Inj Date : 03-MAY-2000 09:29
Operator : RCM mm 05/05/00
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin		7.410	7.410	0.000	489206	108.726	108.726
alpha-BHC	(M)	4.793	4.793	0.000	563476	109.993	109.993
beta-BHC		8.280	8.280	0.000	267869	104.430	104.430
delta-BHC		9.147	9.147	0.000	472412	111.149	111.149
gamma-BHC (Lindane)		5.900	5.900	0.000	536056	109.272	109.272
4,4'-DDD		14.713	14.713	0.000	289258	109.652	109.652
4,4'-DDE		11.567	11.567	0.000	403059	108.869	108.869
4,4'-DDT		15.363	15.363	0.000	283987	107.354	107.354
Dieldrin	(M)	12.127	12.127	0.000	433361	107.864	107.864

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
Endosulfan I		10.727	10.727	0.000	421325	106.842	106.842
Endosulfan II		14.843	14.843	0.000	406088	104.850	104.850
Endosulfan sulfate		17.783	17.783	0.000	286332	106.551	106.551
Endrin	(M)	12.900	12.900	0.000	385213	107.588	107.588
Endrin aldehyde		16.520	16.520	0.000	157120	104.210	104.210
Endrin ketone	(M)	19.387	19.387	0.000	361947	108.278	108.278
Heptachlor		6.523	6.523	0.000	488593	108.078	108.078
Heptachlor epoxide		9.737	9.737	0.000	457414	106.964	106.964
Methoxychlor		17.960	17.960	0.000	179454	108.022	108.022
Tetrachloro-m-xylene	(M)	2.837	2.837	0.000	429717	109.523	109.523
Decachlorobiphenyl	(M)	22.667	22.667	0.000	396506	109.165	109.165

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042425.d
Method: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m

Sample Information: 1016/1260-1000b
Injection Date: 03-MAY-2000 10:02

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.	
Aroclor-1016	1	4.893	1000	0.00	100.00*	
Aroclor-1016	2	6.117	1000	0.00	100.00*	mim 05/05/00
Aroclor-1016	3	7.073	1000	1103.92	10.39	
Aroclor-1016	4	7.297	1000	1098.66	9.87	
Aroclor-1016	5	7.860	1000	1102.37	10.24	
Aroclor-1016	6	8.587	1000	1107.35	10.74	
Aroclor-1016	7	9.610	1000	1088.79	8.88	
Aroclor-1016	8	10.080	1000	1090.91	9.09	

Aroclor-1260	1	14.603	1000	0.00	100.00*	mim 05/05/00
Aroclor-1260	2	16.417	1000	1121.48	12.15	
Aroclor-1260	3	16.570	1000	1139.21	13.92	
Aroclor-1260	4	16.840	1000	1090.56	9.06	
Aroclor-1260	5	18.097	1000	1139.75	13.97	
Aroclor-1260	6	18.687	1000	1133.30	13.33	
Aroclor-1260	7	20.647	1000	1142.66	14.27	
Aroclor-1260	8	22.650	1000	1152.00	15.20<-	mim 05/05/00

* Multicomponent peak not used in calibration.

GC ORGANICS RETENTION TIME CHECK

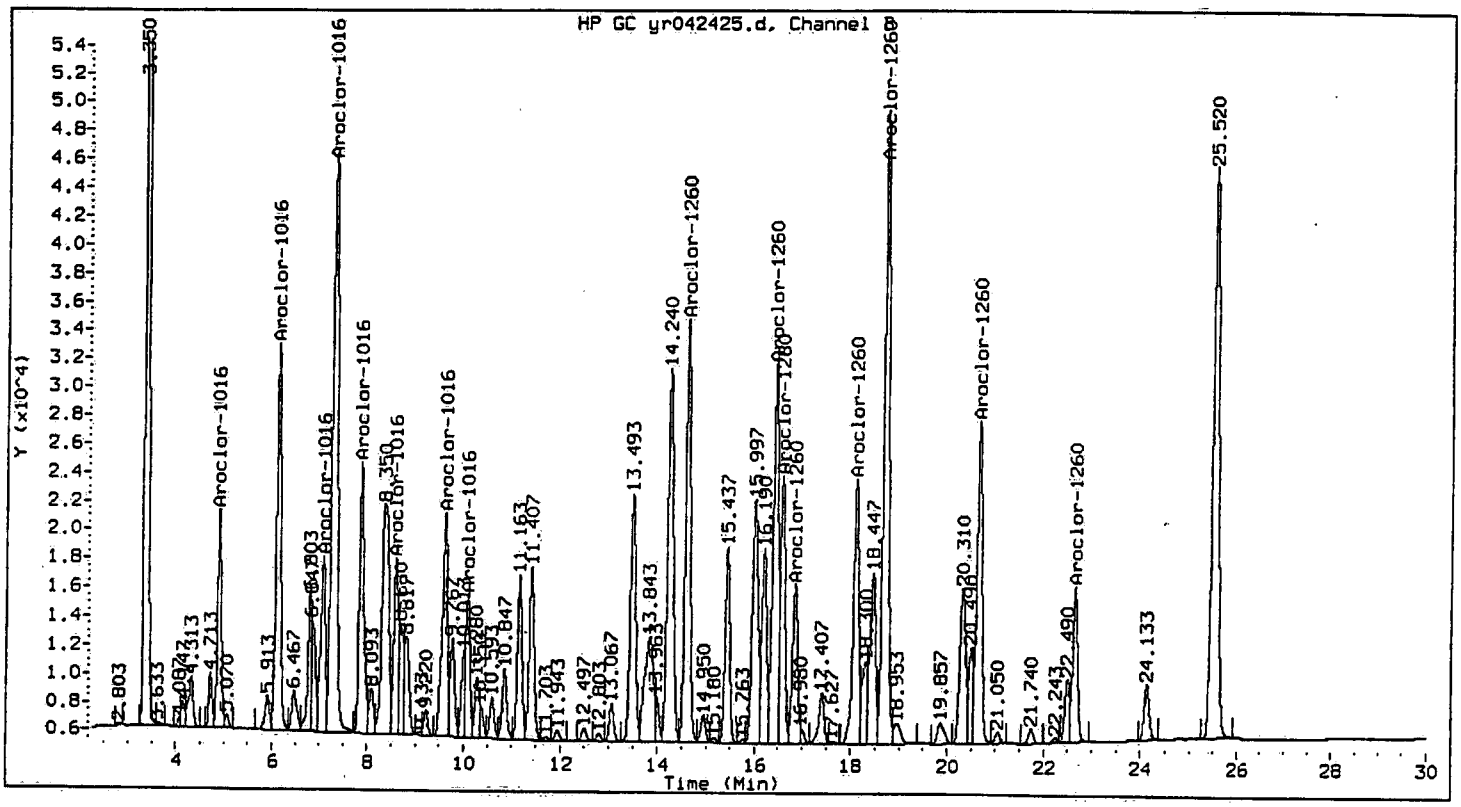
Instrument ID: PESTGC2.i

Midpoint Calibration File: /chem1/PESTGC2.i/608/rear/Apr00/04-24-00/24apr00a.b/yr042165.d
Injection Date: 25-APR-2000 01:52

Continuing Calibration File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042425.d
Injection Date: 03-MAY-2000 10:02

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.917	(4.847 - 4.987)	4.893	
	6.143	(6.073 - 6.213)	6.117	
	7.103	(7.033 - 7.173)	7.073	
	7.323	(7.253 - 7.393)	7.297	
	7.890	(7.820 - 7.960)	7.860	
	8.613	(8.543 - 8.683)	8.587	
	9.640	(9.570 - 9.710)	9.610	
	10.110	(10.040 - 10.180)	10.080	
Aroclor-1260	14.630	(14.560 - 14.700)	14.603	
	16.450	(16.380 - 16.520)	16.417	
	16.600	(16.530 - 16.670)	16.570	
	16.873	(16.803 - 16.943)	16.840	
	18.130	(18.060 - 18.200)	18.097	
	18.723	(18.653 - 18.793)	18.687	
	20.680	(20.610 - 20.750)	20.647	
	22.683	(22.613 - 22.753)	22.650	

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042425.d Page 1
Report Date 05/05/2000 22:42



Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 03-MAY-2000 10:02
Operator : RCM MJM 05/05/00
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
Aroclor-1016	(M)	------	4.893	------	------	------	------	(*)
(2)		------	6.117	------	------	------	------	(*)
(3)		7.073	7.073	0.000	85547	1103.920	1103.920	
(4)		7.297	7.297	0.000	328397	1098.664	1098.664	
(5)		7.860	7.860	0.000	128965	1102.368	1102.368	
(6)		8.587	8.587	0.000	81593	1107.355	1107.355	
(7)		9.610	9.610	0.000	119774	1088.794	1088.794	
(8)		10.080	10.080	0.000	66291	1090.909	1090.909	
Average of peak concentrations:							1100.00	
Aroclor-1260	(M)	------	14.603	------	------	------	------	(*)
(2)		16.417	16.417	0.000	207945	1121.481	1121.481	
(3)		16.570	16.570	0.000	133880	1139.206	1139.206	
(4)		16.840	16.840	0.000	82715	1090.556	1090.556	
(5)		18.097	18.097	0.000	146450	1139.746	1139.746	
(6)		18.687	18.687	0.000	327347	1133.299	1133.299	

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	20.647	20.647	0.000	168090	1142.661	1142.661
(8)	22.650	22.650	0.000	79962	1152.001	1152.001

Average of peak concentrations: 1100.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042425.d
Method: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m

Sample Information: 1016/1260-1000b
Injection Date: 03-MAY-2000 10:02

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	4.010	1000	989.68	1.03
Aroclor-1016	2	4.947	1000	0.00	100.00*
Aroclor-1016	3	5.617	1000	1020.63	2.06
Aroclor-1016	4	6.250	1000	999.87	0.01
Aroclor-1016	5	6.650	1000	913.63	8.64
Aroclor-1016	6	6.977	1000	1029.26	2.93
Aroclor-1016	7	8.120	1000	1007.62	0.76
Aroclor-1016	8	8.430	1000	1045.18	4.52
Aroclor-1260	1	12.390	1000	998.02	0.20
Aroclor-1260	2	13.297	1000	995.54	0.45
Aroclor-1260	3	14.657	1000	1014.64	1.46
Aroclor-1260	4	14.797	1000	989.42	1.06
Aroclor-1260	5	16.040	1000	1013.49	1.35
Aroclor-1260	6	17.213	1000	1004.01	0.40
Aroclor-1260	7	18.620	1000	1010.74	1.07
Aroclor-1260	8	21.087	1000	1022.85	2.29

05/05/00

* Multicomponent peak not used in calibration.

GC ORGANICS RETENTION TIME CHECK

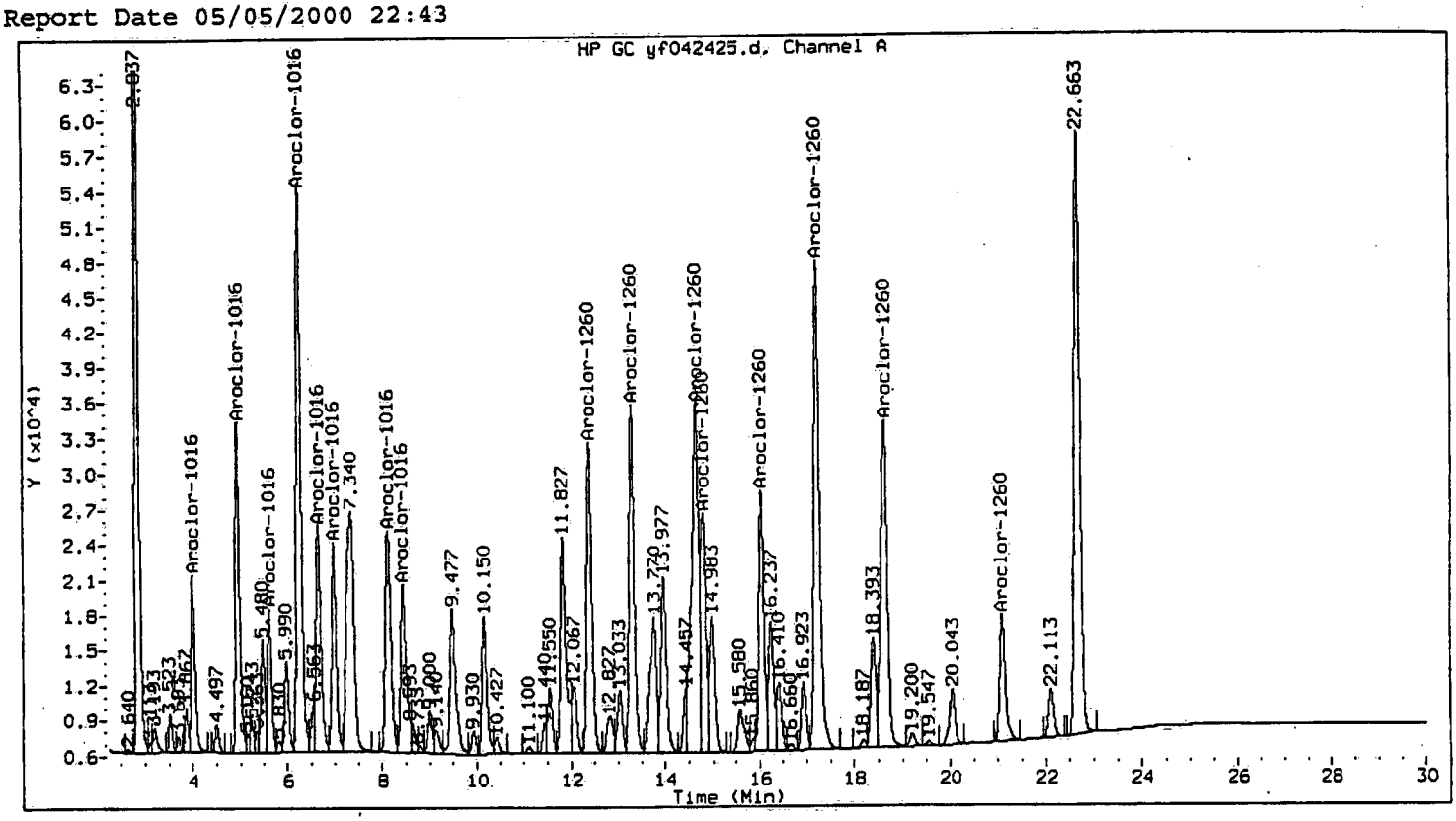
Instrument ID: PESTGC2.i

Midpoint Calibration File: /chem1/PESTGC2.i/608/front/Apr00/04-24-00/24apr00a.b/yf042165.d
Injection Date: 25-APR-2000 01:52

Continuing Calibration File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042425.d
Injection Date: 03-MAY-2000 10:02

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	4.043	(3.973 - 4.113)	4.010	
	4.980	(4.910 - 5.050)	4.947	
	5.650	(5.580 - 5.720)	5.617	
	6.283	(6.213 - 6.353)	6.250	
	6.683	(6.613 - 6.753)	6.650	
	7.010	(6.940 - 7.080)	6.977	
	8.150	(8.080 - 8.220)	8.120	
	8.463	(8.393 - 8.533)	8.430	
Aroclor-1260	12.420	(12.350 - 12.490)	12.390	
	13.323	(13.253 - 13.393)	13.297	
	14.683	(14.613 - 14.753)	14.657	
	14.823	(14.753 - 14.893)	14.797	
	16.067	(15.997 - 16.137)	16.040	
	17.243	(17.173 - 17.313)	17.213	
	18.650	(18.580 - 18.720)	18.620	
	21.113	(21.043 - 21.183)	21.087	

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042425.d Page 1
Report Date 05/05/2000 22:43



Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 03-MAY-2000 10:02
Operator : RCM mlm 05/05/00
Cpnd Sublist: AR16600

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	4.010	4.010	0.000	82226	989.676	989.676
(2)		------	4.947	------	------	------	------ (*)
(3)		5.617	5.617	0.000	74094	1020.635	1020.635
(4)		6.250	6.250	0.000	315437	999.867	999.867
(5)		6.650	6.650	0.000	139917	913.626	913.626
(6)		6.977	6.977	0.000	110024	1029.261	1029.261
(7)		8.120	8.120	0.000	150585	1007.619	1007.619
(8)		8.430	8.430	0.000	116006	1045.184	1045.184
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	12.390	12.390	0.000	194506	998.020	998.020
(2)		13.297	13.297	0.000	225394	995.543	995.543
(3)		14.657	14.657	0.000	301020	1014.642	1014.642
(4)		14.797	14.797	0.000	140725	989.425	989.425
(5)		16.040	16.040	0.000	169537	1013.488	1013.488
(6)		17.213	17.213	0.000	341003	1004.012	1004.012

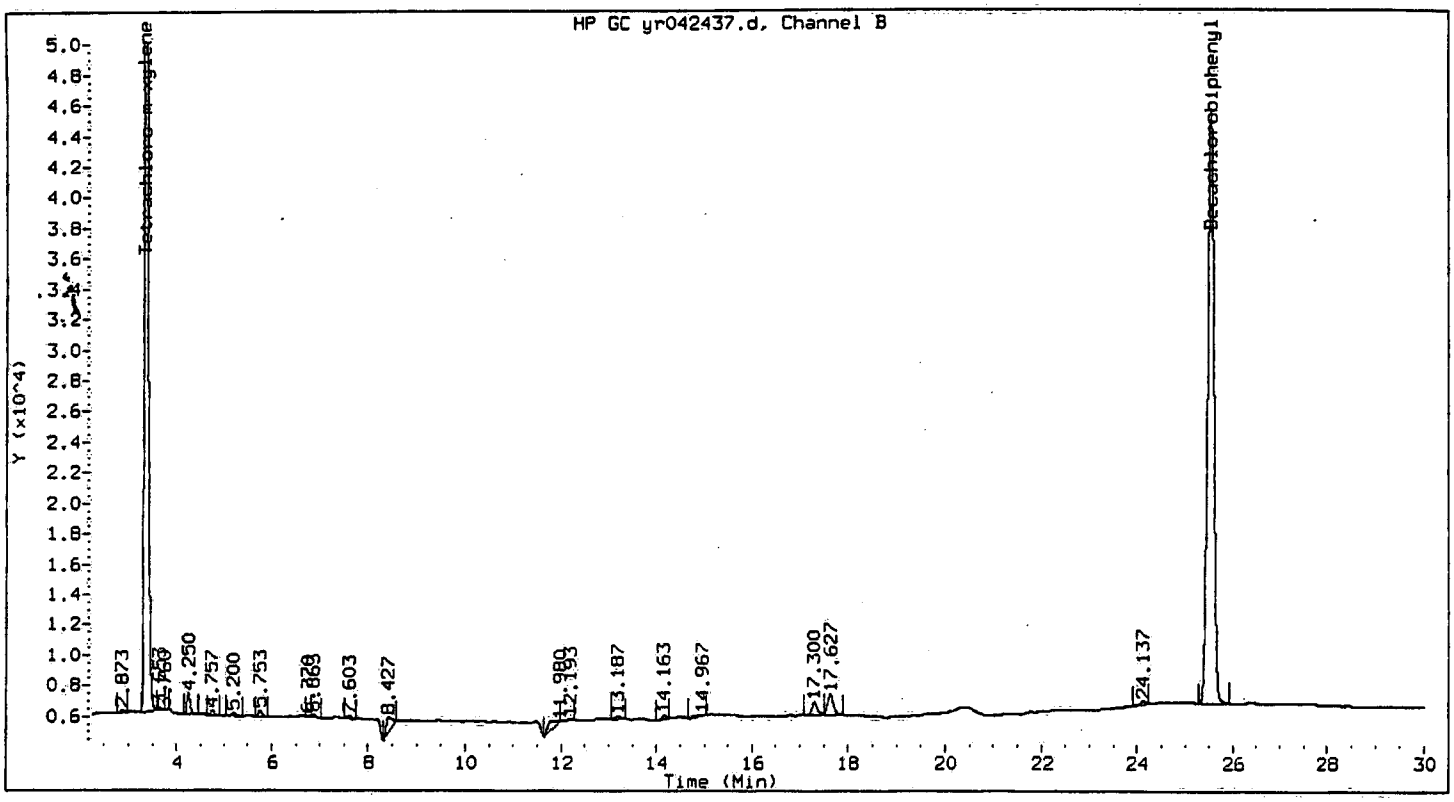
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
(7)	18.620	18.620	0.000	258505	1010.737	1010.737
(8)	21.087	21.087	0.000	86876	1022.852	1022.852
Average of peak concentrations:						1000.00

COMMENTS:

* - Mutlicomponent peak not used in quantitation of compound.

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042437.d Page 1
Report Date 05/05/2000 22:47



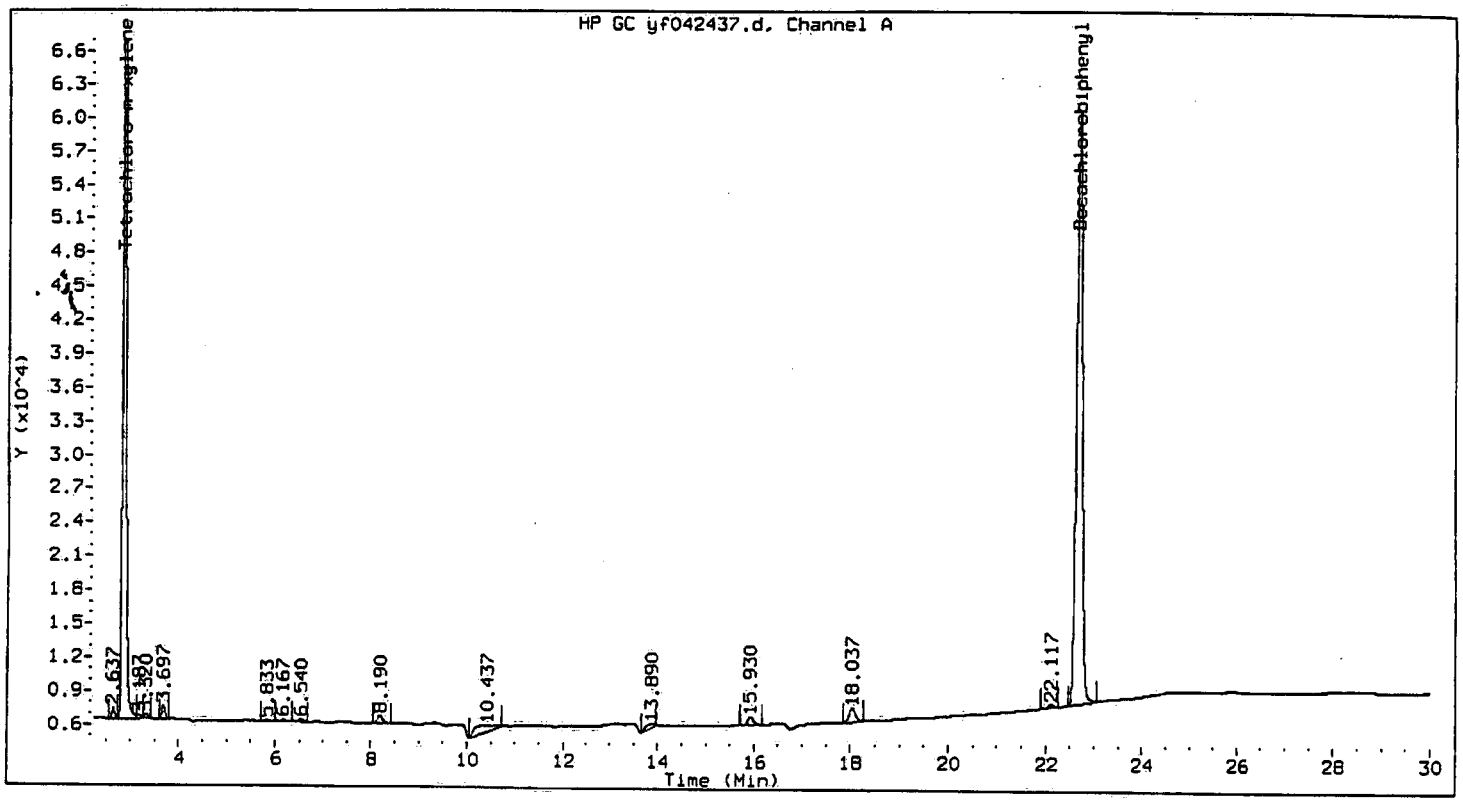
Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : WP123;1000;5;;
Lab ID : WP123 Inst ID : PESTGC2.i
Inj Date : 03-MAY-2000 18:00 Dil Factor : 1
Operator : RCM mm 05/05/00 Sample Matrix : WATER
Cpnd Sublist: TCLpestpcb+ Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	3.353	3.353	0.000	405242	100.810	0.504
Decachlorobiphenyl		25.520	25.523	0.003	339194	112.178	0.561

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042437.d Page 1
Report Date 05/05/2000 22:48



Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : WP123;1000;5;;
Lab ID : WP123
Inj Date : 03-MAY-2000 18:00
Operator : RCM mm 05/05/00
Cpnd Sublist: TCLpestpcb+

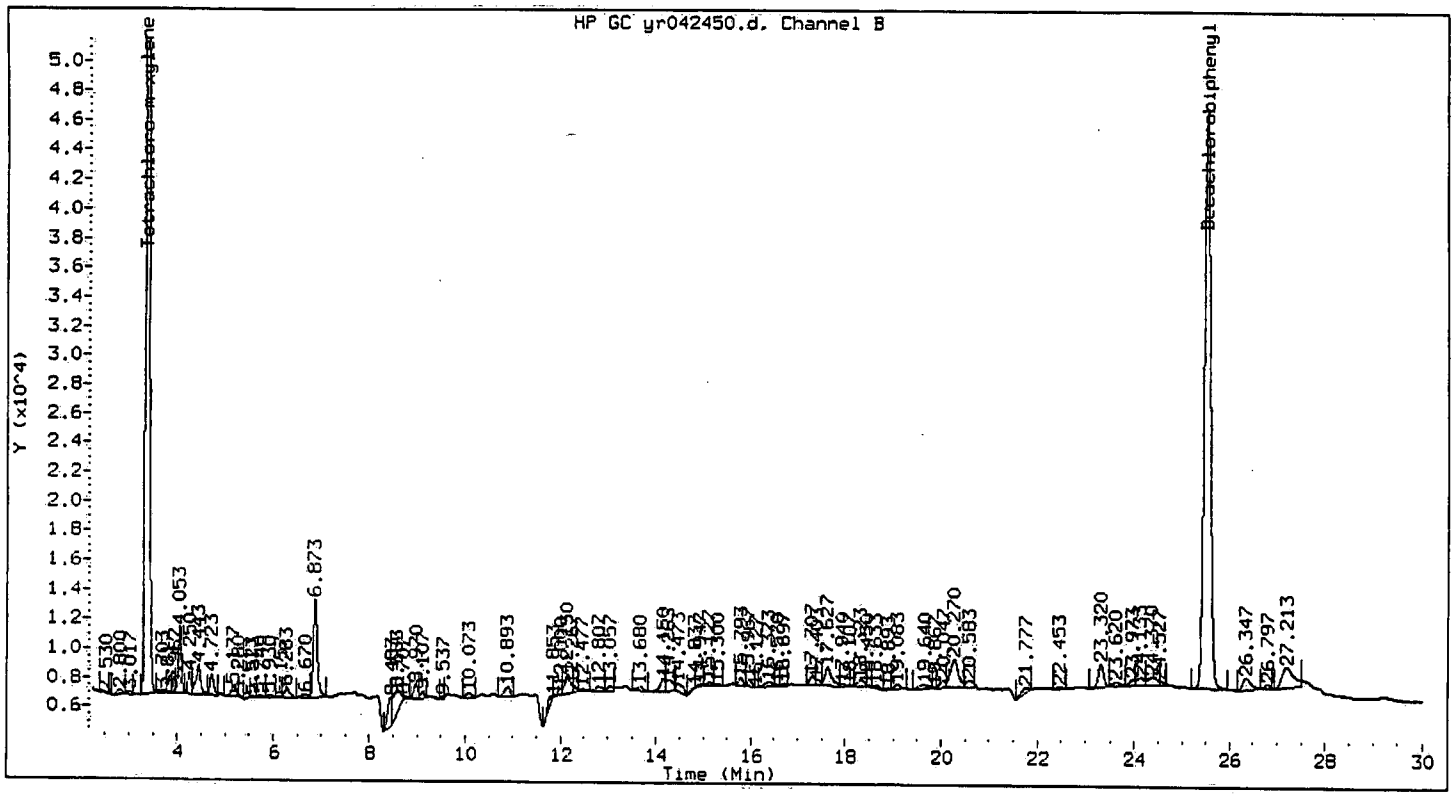
Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	2.837	2.837	0.000	422956	107.800	0.539
Decachlorobiphenyl	(M)	22.663	22.667	0.003	428424	117.953	0.590

COMMENTS:

M - Compound response manually integrated.

Data File: /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/yr042450.d Page 1
Report Date 05/05/2000 22:47

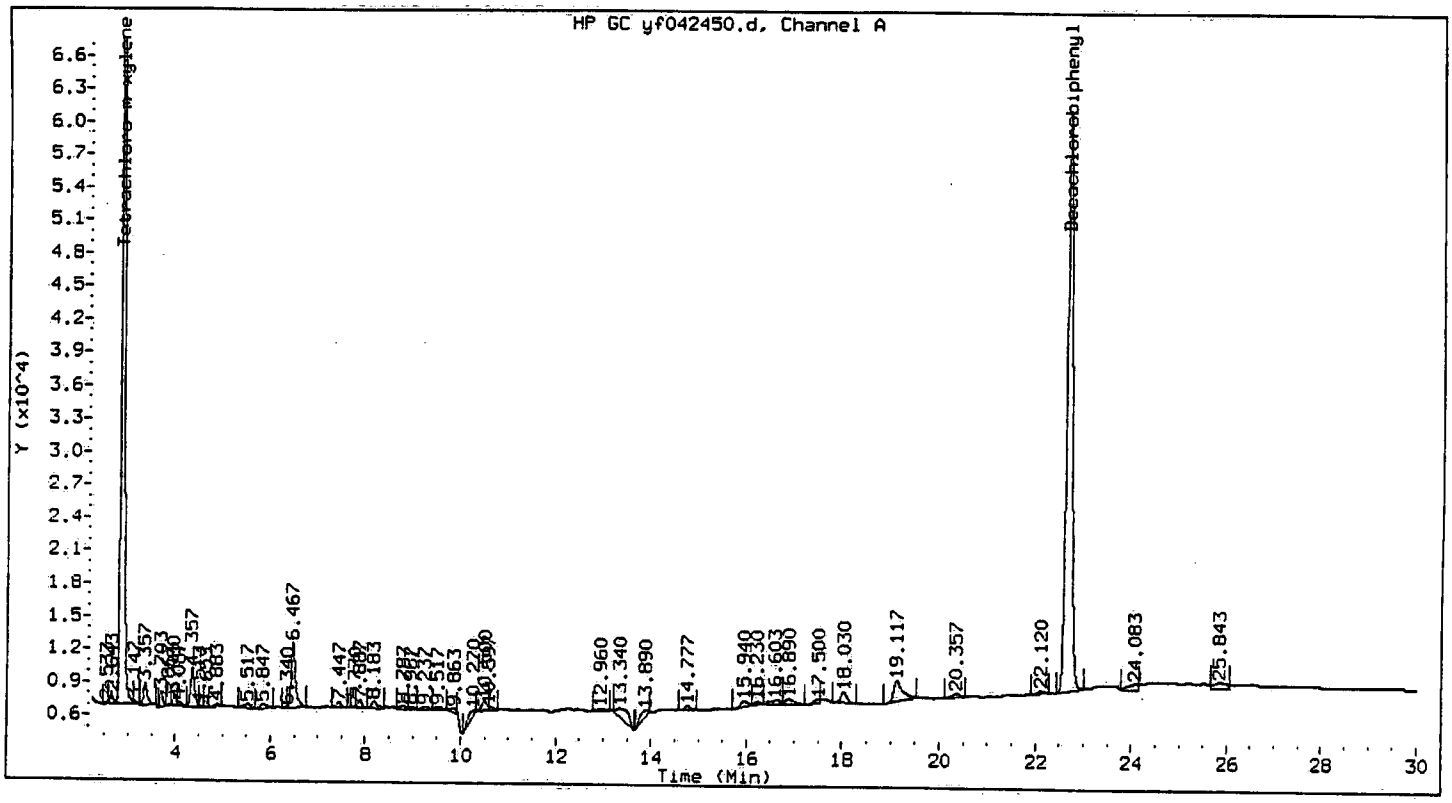


Method : /chem1/PESTGC2.i/608/rear/May00/05-02-00/02may00b.b/Yr608.m
Sample Info : 201478;980;5;;
Lab ID : 201478
Inj Date : 04-MAY-2000 01:04
Operator : RCM
Cpnd Sublist: PPpestpcb+

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Tetrachloro-m-xylene	3.350	3.353	0.003	414322	103.069	0.526
Decachlorobiphenyl	25.517	25.523	0.007	346515	114.599	0.585

Data File: /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/yf042450.d Page 1
Report Date 05/05/2000 22:48



Method : /chem1/PESTGC2.i/608/front/May00/05-02-00/02may00b.b/Yf608.m
Sample Info : 201478;980;5;;
Lab ID : 201478
Inj Date : 04-MAY-2000 01:04
Operator : RCM mm 05/05/00
Cpnd Sublist: PPpestpcb+

Inst ID : PESTGC2.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (none)	FINAL (ug/L)
Tetrachloro-m-xylene	(M)	2.840	2.837	0.003	425342	108.408	0.553
Decachlorobiphenyl	(M)	22.663	22.667	0.003	425044	117.022	0.597

COMMENTS:

M - Compound response manually integrated.

Client ID: SW-1
Site: Schaeffer Salts

Lab Sample No: 201478
Lab Job No: Z784

Date Sampled: 05/01/00
Date Received: 05/01/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	M
Antimony	ND	4.5	P
Arsenic	80.5	3.6	P
Beryllium	ND	0.20	P
Cadmium	ND	0.40	P
Chromium	9.5	1.1	P
Copper	11.9	2.7	P
Lead	5.3	2.1	P
Mercury	ND	0.10	CV
Nickel	1.5	1.4	P
Selenium	ND	4.5	P
Silver	ND	1.1	P
Thallium	ND	4.1	P
Zinc	13.4	5.2	P

M Column - Method Code (See Section 2 of Report)

BLANKS

Lab Name: STL_ENVIROTECH

Lab Code: 12543_ Lab Job No.: _Z784 Batch No.: 9551__

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	58.6	U	58.6	U	58.6	U	58.6	U	58.620	U	P
Antimony	4.5	U	4.5	U	4.5	U	4.5	U	4.540	U	P
Arsenic	3.6	U	3.6	U	3.6	U	3.6	U	3.550	U	P
Barium											NR
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	-0.422	B	P
Calcium											NR
Chromium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Cobalt											NR
Copper	2.7	U	2.7	U	2.7	U	2.7	U	2.700	U	P
Iron	37.1	U	37.1	U	37.1	U	37.1	U	37.090	U	P
Lead	2.1	U	2.1	U	2.1	U	2.1	U	2.070	U	P
Magnesium											NR
Manganese											NR
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.4	U	1.4	U	1.4	U	1.4	U	1.390	U	P
Potassium											NR
Selenium	4.5	U	4.5	U	4.5	U	4.5	U	4.530	U	P
Silver	1.1	U	1.1	U	1.1	U	1.1	U	1.120	U	P
Sodium											NR
Thallium	4.1	U	4.1	U	4.1	U	4.1	U	4.140	U	P
Vanadium											NR
Zinc	5.2	U	5.2	U	5.2	U	5.2	U	5.180	U	P
Boron	5.0	U	5.0	U	5.0	U	5.0	U	5.594	B	P

BLANKS

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: _Z784 _____ Batch No.: 9551__

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			58.6	U							P
Antimony			4.5	U							P
Arsenic			3.6	U							P
Barium											NR
Beryllium			0.2	U							P
Cadmium			0.4	U							P
Calcium											NR
Chromium			1.1	U							P
Cobalt											NR
Copper			2.7	U							P
Iron			37.1	U							P
Lead			2.1	U							P
Magnesium											NR
Manganese											NR
Mercury			0.1	U	0.1	U					CV
Nickel			1.4	U							P
Potassium											NR
Selenium			4.5	U							P
Silver			1.1	U							P
Sodium											NR
Thallium			4.1	U							P
Vanadium											NR
Zinc			5.2	U							P
Boron			5.0	U							P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	250000.0	250383.4	100.2	250000.0	248106.0	99.2	246825.4	98.7	P
Antimony	1000.0	996.67	99.7	1000.0	997.66	99.8	991.70	99.2	P
Arsenic	5000.0	4921.56	98.4	5000.0	5009.26	100.2	4968.41	99.4	P
Barium									NR
Beryllium	1000.0	983.50	98.4	1000.0	994.43	99.4	989.39	98.9	P
Cadmium	2500.0	2453.02	98.1	2500.0	2505.39	100.2	2493.22	99.7	P
Calcium									NR
Chromium	5000.0	4926.33	98.5	5000.0	4980.01	99.6	4962.54	99.3	P
Cobalt									NR
Copper	12500.0	12497.26	100.0	12500.0	12491.21	99.9	12390.12	99.1	P
Iron	100000.0	97864.92	97.9	100000.0	97598.61	97.6	97170.08	97.2	P
Lead	10000.0	9803.90	98.0	10000.0	9950.79	99.5	9903.12	99.0	P
Magnesium									NR
Manganese									NR
Mercury	5.0	5.06	101.2	5.0	4.84	96.8	4.97	99.4	CV
Nickel	2500.0	2462.10	98.5	2500.0	2489.80	99.6	2481.99	99.3	P
Potassium									NR
Selenium	5000.0	4963.06	99.3	5000.0	5020.51	100.4	4985.65	99.7	P
Silver	1250.0	1246.01	99.7	1250.0	1246.06	99.7	1239.79	99.2	P
Sodium									NR
Thallium	5000.0	4900.51	98.0	5000.0	4949.36	99.0	4925.24	98.5	P
Vanadium									NR
Zinc	2500.0	2491.75	99.7	2500.0	2517.51	100.7	2502.24	100.1	P
Boron	1000.0	1023.63	102.4	1000.0	1027.44	102.7	1020.49	102.0	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				250000.0	249103.0	99.6	250055.9	100.0	P
Antimony				1000.0	994.54	99.5	1003.20	100.3	P
Arsenic				5000.0	4950.94	99.0	5028.99	100.6	P
Barium									NR
Beryllium				1000.0	987.57	98.8	1002.61	100.3	P
Cadmium				2500.0	2487.34	99.5	2537.96	101.5	P
Calcium									NR
Chromium				5000.0	4973.74	99.5	5029.50	100.6	P
Cobalt									NR
Copper				12500.0	12414.99	99.3	12533.06	100.3	P
Iron				100000.0	97913.48	97.9	97520.84	97.5	P
Lead				10000.0	9900.97	99.0	10035.62	100.4	P
Magnesium									NR
Manganese									NR
Mercury				5.0	4.96	99.2	4.93	98.6	CV
Nickel				2500.0	2484.50	99.4	2522.92	100.9	P
Potassium									NR
Selenium				5000.0	4987.15	99.7	5051.74	101.0	P
Silver				1250.0	1244.88	99.6	1248.66	99.9	P
Sodium									NR
Thallium				5000.0	4935.58	98.7	5011.27	100.2	P
Vanadium									NR
Zinc				2500.0	2501.18	100.0	2536.19	101.4	P
Boron				1000.0	1022.05	102.2	1033.46	103.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_ENVIROTECH_____ _____

Lab Code: 12543_ Lab Job No.: Z784 _____ Batch No.: 9551__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel				5.0	4.98	99.6			CV
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Boron									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	492879	500774.5	100.2	484575	501925.9	100.4
Antimony		100		93.7	93.7		92.2	92.2
Arsenic		100		100.6	100.6		97.9	97.9
Barium		100		104.6	104.6		104.4	104.4
Beryllium		100		95.8	95.8		96.3	96.3
Cadmium		100		93.1	93.1		95.1	95.1
Calcium	500000	500000	467681	469605.8	93.9	475024	478687.6	95.7
Chromium		100		97.6	97.6		98.9	98.9
Cobalt		100		92.7	92.7		93.6	93.6
Copper		100		101.1	101.1		99.3	99.3
Iron	200000	200000	191112	191063.5	95.5	189825	193671.5	96.8
Lead		100		88.6	88.6		89.9	89.9
Magnesium	500000	500000	499895	502025.3	100.4	507948	512225.2	102.4
Manganese		100		97.8	97.8		98.6	98.6
Mercury								
Nickel		100		95.9	95.9		96.3	96.3
Potassium		10000		11124.2	111.2		11250.4	112.5
Selenium		1000		97.3	9.7		95.2	9.5
Silver		100		102.6	102.6		102.1	102.1
Sodium		10000		10249.4	102.5		10467.4	104.7
Thallium		100		93.5	93.5		94.2	94.2
Vanadium		100		103.6	103.6		104.0	104.0
Zinc		100		94.6	94.6		94.6	94.6

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

BSW050200

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	1951.2540		58.6200	U	2000.00	97.6		P
Antimony	80-120	478.3090		4.5400	U	500.00	95.7		P
Arsenic	80-120	1940.7230		3.5500	U	2000.00	97.0		P
Barium									NR
Beryllium	80-120	50.6440		0.2000	U	50.00	101.3		P
Cadmium	80-120	49.4420		0.3700	U	50.00	98.9		P
Calcium									NR
Chromium	80-120	201.5460		1.1000	U	200.00	100.8		P
Cobalt									NR
Copper	80-120	247.2460		2.7000	U	250.00	98.9		P
Iron	80-120	962.5800		37.0900	U	1000.00	96.3		P
Lead	80-120	486.2950		2.0700	U	500.00	97.3		P
Magnesium									NR
Manganese									NR
Mercury	80-120	1.0200		0.1000	U	1.00	102.0		CV
Nickel	80-120	501.7200		1.3900	U	500.00	100.3		P
Potassium									NR
Selenium	80-120	1912.2200		4.5300	U	2000.00	95.6		P
Silver	80-120	48.3780		1.1200	U	50.00	96.8		P
Sodium									NR
Thallium	80-120	1985.9410		4.1400	U	2000.00	99.3		P
Vanadium									NR
Zinc	80-120	499.1510		5.1800	U	500.00	99.8		P
Boron	80-120	506.7650		5.5940	B	500.00	100.2		P

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

200969MS

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	2103.3360		141.8120	B	2000.00	98.1		P
Antimony	80-120	495.2140		4.5400	U	500.00	99.0		P
Arsenic	80-120	1999.0380		3.8170	B	2000.00	99.8		P
Barium									NR
Beryllium	80-120	51.4620		0.2000	U	50.00	102.9		P
Cadmium	80-120	49.1820		0.3700	U	50.00	98.4		P
Calcium									NR
Chromium	80-120	204.3720		1.1000	U	200.00	102.2		P
Cobalt									NR
Copper	80-120	260.5000		2.7000	U	250.00	104.2		P
Iron		7553.9560		6790.3120		1000.00	76.4		P
Lead	80-120	488.4440		2.0700	U	500.00	97.7		P
Magnesium									NR
Manganese									NR
Mercury	80-120	1.0600		0.1000	U	1.00	106.0		CV
Nickel	80-120	505.8820		3.5230	B	500.00	100.5		P
Potassium									NR
Selenium	80-120	1949.1810		4.5300	U	2000.00	97.5		P
Silver	80-120	49.9030		1.1200	U	50.00	99.8		P
Sodium									NR
Thallium	80-120	1986.8940		4.1400	U	2000.00	99.3		P
Vanadium									NR
Zinc	80-120	513.7700		10.5010	B	500.00	100.7		P
Boron	80-120	1071.5130		568.0510		500.00	100.7		P

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

200969MSD

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	80-120	2085.9390		141.8120	B	2000.00	97.2		P
Antimony	80-120	487.6930		4.5400	U	500.00	97.5		P
Arsenic	80-120	1966.4580		3.8170	B	2000.00	98.1		P
Barium									NR
Beryllium	80-120	50.7250		0.2000	U	50.00	101.4		P
Cadmium	80-120	47.9940		0.3700	U	50.00	96.0		P
Calcium									NR
Chromium	80-120	201.8260		1.1000	U	200.00	100.9		P
Cobalt									NR
Copper	80-120	256.8580		2.7000	U	250.00	102.7		P
Iron		7557.0250		6790.3120		1000.00	76.7		P
Lead	80-120	479.4800		2.0700	U	500.00	95.9		P
Magnesium									NR
Manganese									NR
Mercury	80-120	1.0500		0.1000	U	1.00	105.0		CV
Nickel	80-120	500.2720		3.5230	B	500.00	99.3		P
Potassium									NR
Selenium	80-120	1915.7480		4.5300	U	2000.00	95.8		P
Silver	80-120	49.6800		1.1200	U	50.00	99.4		P
Sodium									NR
Thallium	80-120	1965.7440		4.1400	U	2000.00	98.3		P
Vanadium									NR
Zinc	80-120	509.3480		10.5010	B	500.00	99.8		P
Boron	80-120	1060.8370		568.0510		500.00	98.6		P

Comments:

LAB SAMPLE NO.

DUPLICATES

200969D

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		141.8120	B	90.9640	B	43.7		P
Antimony		4.5400	U	4.5400	U			P
Arsenic	4.0	3.8170	B	5.9950		44.4		P
Barium								NR
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.3700	U	0.3700	U			P
Calcium								NR
Chromium		1.1000	U	1.1000	U			P
Cobalt								NR
Copper		2.7000	U	2.7000	U			P
Iron		6790.3120		6632.2620		2.4		P
Lead		2.0700	U	2.0700	U			P
Magnesium								NR
Manganese								NR
Mercury		0.1000	U	0.1000	U			CV
Nickel		3.5230	B	3.3850	B	4.0		P
Potassium								NR
Selenium		4.5300	U	4.5300	U			P
Silver		1.1200	U	1.1200	U			P
Sodium								NR
Thallium		4.1400	U	4.1400	U			P
Vanadium								NR
Zinc		10.5010	B	7.8260	B	29.2		P
Boron		568.0510		559.4080		1.5		P

DUPLICATES

LAB SAMPLE NO.

200969MS/MS

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784

Batch No.: 9551

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2103.3360		2085.9390		0.8		P
Antimony		495.2140		487.6930		1.5		P
Arsenic		1999.0380		1966.4580		1.6		P
Barium								NR
Beryllium		51.4620		50.7250		1.4		P
Cadmium		49.1820		47.9940		2.4		P
Calcium								NR
Chromium		204.3720		201.8260		1.3		P
Cobalt								NR
Copper		260.5000		256.8580		1.4		P
Iron		7553.9560		7557.0250		0.0		P
Lead		488.4440		479.4800		1.9		P
Magnesium								NR
Manganese								NR
Mercury		1.0600		1.0500		0.9		CV
Nickel		505.8820		500.2720		1.1		P
Potassium								NR
Selenium		1949.1810		1915.7480		1.7		P
Silver	10.0	49.9030		49.6800		0.4		P
Sodium								NR
Thallium		1986.8940		1965.7440		1.1		P
Vanadium								NR
Zinc		513.7700		509.3480		0.9		P
Boron		1071.5130		1060.8370		1.0		P

LABORATORY CONTROL SAMPLE

Lab Name: STL_ENVIROTECH

Lab Code: 12543_ Lab Job No.: __Z784 Batch No.: 9551__

Solid LCS Source:

Aqueous LCS Source: INORG VENT__

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	1000.0	952.99	95.3						
Antimony	1000.0	888.87	88.9						
Arsenic	1000.0	913.33	91.3						
Barium									
Beryllium	1000.0	907.48	90.7						
Cadmium	1000.0	943.22	94.3						
Calcium									
Chromium	1000.0	935.12	93.5						
Cobalt									
Copper	1000.0	925.08	92.5						
Iron	1000.0	912.70	91.3						
Lead	1000.0	922.51	92.3						
Magnesium									
Manganese									
Mercury	5.0	5.07	101.4						
Nickel	1000.0	945.52	94.6						
Potassium									
Selenium	1000.0	905.41	90.5						
Silver	1000.0	936.33	93.6						
Sodium									
Thallium	1000.0	934.35	93.4						
Vanadium									
Zinc	1000.0	930.41	93.0						
Boron	1000.0	985.96	98.6						

LAB SAMPLE NO.

ICP SERIAL DILUTION

200969L

Lab Name: STL_ENVIROTECH

Lab Code: 12543 Lab Job No.: Z784 Batch No.: 9551

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	141.81	B	293.10	U	100.0		P
Antimony	4.54	U	22.70	U			P
Arsenic	3.82	B	17.75	U	100.0		P
Barium							NR
Beryllium	0.20	U	1.00	U			P
Cadmium	0.37	U	1.85	U			P
Calcium							NR
Chromium	1.10	U	5.50	U			P
Cobalt							NR
Copper	2.70	U	13.50	U			P
Iron	6790.31		6664.82		1.8		P
Lead	2.07	U	10.35	U			P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel	3.52	B	6.95	U	100.0		P
Potassium							NR
Selenium	4.53	U	22.65	U			P
Silver	1.12	U	5.60	U			P
Sodium							NR
Thallium	4.14	U	20.70	U			P
Vanadium							NR
Zinc	10.50	B	25.90	U	100.0		P

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:9551__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 05/04/00 End Date: 05/04/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
D1-BLANK	1.00	0447		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
STD2	1.00	0452		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD3	1.00	0458		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
STD4	1.00	0503		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	0511																									
ICV/CCV	1.00	0516		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
ICB/CCB	1.00	0522		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
ICSA	1.00	0527		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
ICSAB	1.00	0533		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
ZZZZZZ	1.00	0538																									
ZZZZZZ	1.00	0544		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
SW050200	1.00	0549		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
BW050200	1.00	0555		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
LCSW	1.00	0600		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
200969D	1.00	0606		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
200969	1.00	0611		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
200969L	1.00	0616		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
CCV	1.00	0622		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
CCB	1.00	0627		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
200969MS	1.00	0633		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
00969MSD	1.00	0638		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
ZZZZZZ	1.00	0644																									
200553	1.00	0649		_	_	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	_	X	_	_	_	X	_
200561	1.00	0655		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
200652	1.00	0700		X	_	X	_	_	X	_	X	_	X	X	X	_	_	_	X	_	_	X	_	_	_	X	X
200867	1.00	0706		_	_	X	_	_	X	_	X	_	X	_	X	_	_	_	X	_	_	X	_	_	_	X	_
200868	1.00	0711		_	_	X	_	_	X	_	X	_	X	_	X	_	_	_	X	_	_	X	_	_	_	X	_
200970	1.00	0717		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
200973	1.00	0722		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	X	X	_	X	_	X	_
CCV	1.00	0728		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
CCB	1.00	0733		X	X	X	_	X	X	_	X	_	X	X	X	_	_	_	X	_	X	X	_	X	_	X	X
200975	1.00	0738		_	X	X	_	X	X	_	X	_	X	_	X	_	_	_	X	_	_	X	_	X	_	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:9551__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 05/04/00 End Date: 05/04/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
200976	1.00	0744		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
200977	1.00	0749		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
200978	1.00	0755		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
201349	1.00	0800		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
201478	1.00	0806		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
201448	1.00	0811		-	X						X																
201449	1.00	0817		-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201450	1.00	0822		-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201451	1.00	0828		-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	0833		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
CCB	1.00	0839		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
200974	2.00	0844		-	X	X	-	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	-	X	-
ZZZZZZ	1.00	0850		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	3.00	0917		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200553	2.00	0929		-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	-	-	-
ZZZZZZ	3.00	0934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200975	3.00	0940		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
200652	5.00	0950		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICSA	1.00	1000		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
ICSAB	1.00	1006		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
CCV	1.00	1011		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
CCB	1.00	1017		X	X	X	-	X	X	-	X	-	X	X	X	-	-	-	X	-	X	X	-	X	-	X	X
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:9551__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
STD1	1.00	1219		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
STD2	1.00	1222		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
STD3	1.00	1224		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
STD4	1.00	1227		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
STD5	1.00	1230		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
STD6	1.00	1233		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICV/ACCV	1.00	1236		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICB/CCB	1.00	1238		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
BW050200	1.00	1241		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
SW050200	1.00	1244		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSW	1.00	1247		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200969	1.00	1249		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200969D	1.00	1252		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200969MS	1.00	1255		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
00969MSD	1.00	1257		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200553	1.00	1300		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200561	1.00	1303		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200652	1.00	1306		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV	1.00	1308		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1311		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200867	1.00	1314		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200868	1.00	1317		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200970	1.00	1319		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200973	1.00	1322		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200974	1.00	1325		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200975	1.00	1327		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200976	1.00	1330		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200977	1.00	1333		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
200978	1.00	1336		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
201349	1.00	1338		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV	1.00	1341		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1344		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:9551__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
201478	1.00	1347		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1349		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1352		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1355		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1357		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1400		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1403		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1406		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1408		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1411		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1414		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1417		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1419		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1422		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1425		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1428		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1430		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1433		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1436		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1439		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1441		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1444		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1447		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB	1.00	1450		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1452		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1455		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1458		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1501		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1503		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1506		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1509		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1511		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–

ANALYSIS RUN LOG

Lab Name: STL_ENVIROTECH_____ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:9551__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 05/02/00 End Date: 05/02/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	B
CCB	1.00	1514																X									

Site: Schaeffer Salts

Lab Job No: Z784

Date Sampled: 5/1/00
Date Received: 5/1/00
Matrix: WATER

Date Analyzed: 5/2/00
QA Batch: 1432

CHLORIDE

STL-Envirotech Sample #	Client ID	Dilution Factor	Analytical Result Units: mg/l
201478	SW-1	100	1550

Quantitation Limit for Chloride is 5.0 mg/l for an undiluted sample.

CHLORIDE

Matrix: WATER

Lab Sample No.: Z730

QA Batch No.: 1432

Lab Job No.: 200980

Laboratory Blank	
Blank Conc Units: mg/l	Quant Limit Units: mg/l
ND	5.0

Matrix Spike				
Spike Added Units: mg/l	Sample Conc Units: mg/l	MS Conc Units: mg/l	MS % Rec	QC Limits Rec
25		27	108.0	92.7-108

Matrix Spike Duplicate					
Spike Added Units: mg/l	MSD Conc Units: mg/l	MSD % Rec	% RPD	QC LIMITS RPD	REC
25	27	108	0.0	5.0	92.7-108

Laboratory Control Sample				
Vendor	Lot #	True Value Units: mg/l	Acceptable Range: mg/l	Measured Value: mg/l
ERA	73001	73.0	67.9-78.1	74.0