United States Army
Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 290
Main Post

NJDEP UST Registration No. 081533-64
NJDEP Closure Approval No. C-93-3179

May 2000

VOLUME 3 OF 3

MW Anal. Bldg 290 001
12/18/95

EMSL ANALYTICAL, INC.

Asbestos - Lead - Environmental - Materials

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ANALYTICAL DATA REPORT
FOR
E-SYSTEMS
P.O. Box 360
Fort Monmouth, NJ 07703

PROJECT : **Bldg. 290, MW Sampling**

EMSL Project: # 95129581

Field Sample No. & Location	Laboratory Sample ID	Matrix	Date & Time of Collection	Date Received
2006.1, MW1-2933761	**95-58311**	**Aqueous**	**12/18/95 @ 1232**	**12/18/95**
2002.2, TB	**95-58312**	**Aqueous**	**12/18/95 @ 0700**	**12/18/95**
2002.3, FB	**95-58313**	**Aqueous**	**12/18/95 @ 1450**	**12/18/95**

Laboratory Name	EMSL ANALYTICAL, INC.
Certification No.	NJDEP No. 04653 PADER No. 68-367 NY-ELAP No. 10896
Supervisor/Manager Signature	Paul Laraia
Printed Name	Paul V. Laraia
Date	2-7-96

EMSL

TABLE OF CONTENTS

TABLE OF CONTENTS, cont.

EMSL

SAMPLE DATA SUMMARY PACKAGE

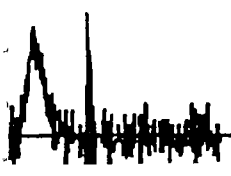
Date of Report: 02/05/96
Project Number: 95129581
Lab ID: 95-0058311
Date Collected: 12/18/95 12:32
Collected By: Client
Date Received: 12/18/95 16:00

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth NJ 07703

Client Project: MW Sampling Bldg 290

Client Designation: MW1-2933761

	Conc.	Unit
LIMITED		
Total Cyanide	<0.010	mg/l
METALS		
Ag-CLP	<0.050	mg/l
Aluminum-CLP	2.2	mg/l
Arsenic-CLP	<0.0010	mg/l
Barium-CLP	0.055	mg/l
Beryllium-CLP	<0.0050	mg/l
Calcium-CLP	4.1	mg/l
Cadmium-CLP	<0.010	mg/l
Cobalt-CLP	<0.050	mg/l
Chromium-CLP	<0.050	mg/l
Copper-CLP	0.060	mg/l
Iron-CLP	6.4	mg/l
Mercury, CLP	<0.00020	mg/l
Potassium-CLP	5.0	mg/l
Magnesium-CLP	4.5	mg/l
Manganese-CLP	0.023	mg/l
Sodium-CLP	9.2	mg/l
Nickel-CLP	<0.050	mg/l
Lead-CLP	<0.0020	mg/l
Antimony-CLP	<0.0050	mg/l
Selenium-CLP	<0.0050	mg/l
Thallium-CLP	<0.0020	mg/l
Vanadium-CLP	<0.050	mg/l
Zinc-CLP	0.18	mg/l
ORGANIC		
Pesticides		
Pesticides and PCBs by 608	see attached	ug/l
Semi-Volatiles		
TCL BNA's with Library Search	see attached	ug/l
Volatiles		
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2006.1 MW-1 - 293761 006

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.1	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	1.1	
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2006.1 007

IIIW1-2933761

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL# Job. 1 NW1-293376 008

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Column Bleed	19.61	3	J
2.	Column Bleed	23.00	5	J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 009

2006.1
9558311B
MW1-293376(

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9478.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

2006.1
9558311B
MW1-2933761

010

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9478.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	n-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-08	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2006.1
9558311B
MW1-2932261

011

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9478.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2606.1
MW1-293761

Lab Name: EMSL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 95-58311

Sample wt/vol: 1000 (g/mL) ml Lab File ID: d:jr22d30

% Moisture: na decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) sepf Date Extracted: 12/21/95

Concentrated Extract Volume: 10 (ml) Date Analyzed: 01/24/96

Injection Volume: 1 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

EMSL

Date of Report: 02/05/96
Project Number: 95129581
Lab ID: 95-0058312
Date Collected: 12/18/95 07:00
Collected By: Client
Date Received: 12/18/95 16:00

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth NJ 07703

Client Project: MW Sampling Bldg 290

Client Designation: Trip Blank

	Conc.	Unit
ORGANIC		
Volatiles		
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 9002.2 TB

014

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.4	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 9002.2 TB

015

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL# 2002.2 TB 016

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: _____ NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 3 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 109-99-9	Furan, tetrahydro-	10.61	2	J
2.	Column Bleed	19.62	2	J
3.	Column Bleed	23.00	1	J
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EMSL

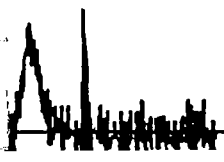
Date of Report: 02/05/96
Project Number: 95129581
Lab ID: 95-0058313
Date Collected: 12/18/95 14:50
Collected By: Client
Date Received: 12/18/95 16:00

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth NJ 07703

Client Project: MW Sampling Bldg 290

Client Designation: Field Blank

	Conc.	Unit
LIMITED		
Total Cyanide	<0.010	mg/l
METALS		
Ag-CLP	<0.050	mg/l
Aluminum-CLP	<0.20	mg/l
Arsenic-CLP	<0.0010	mg/l
Barium-CLP	<0.020	mg/l
Beryllium-CLP	<0.0050	mg/l
Calcium-CLP	<0.40	mg/l
Cadmium-CLP	<0.010	mg/l
Cobalt-CLP	<0.050	mg/l
Chromium-CLP	<0.050	mg/l
Copper-CLP	<0.050	mg/l
Iron-CLP	<0.10	mg/l
Mercury, CLP	<0.00020	mg/l
Potassium-CLP	<3.0	mg/l
Magnesium-CLP	<0.20	mg/l
Manganese-CLP	<0.020	mg/l
Sodium-CLP	<0.40	mg/l
Nickel-CLP	<0.050	mg/l
Lead-CLP	<0.0020	mg/l
Antimony-CLP	<0.010	mg/l
Selenium-CLP	<0.0050	mg/l
Thallium-CLP	<0.0020	mg/l
Vanadium-CLP	<0.050	mg/l
Zinc-CLP	0.065	mg/l
ORGANIC		
Pesticides		
Pesticides and PCBs by 608	see attached	ug/l
Semi-Volatiles		
TCL BNA's with Library Search	see attached	ug/l
Volatiles		
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2002.3 FB

018

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.4	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2002.3 FB

019

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

FMETL# 2002.3 FB 020

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 109-99-9	Furan, tetrahydro-	10.60	2	J
2.	Column Bleed	19.61	1	J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

20023
9558313B
FB

021

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

2002.3
9558313B
T-B

022

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	n-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-08	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
2cc2.3
9558313B
FB

023

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown Hydrocarbon	27.84	6	J
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024

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 2002.3 FB

Lab Name: EMSL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 95-58313

Sample wt/vol: 1000 (g/mL) ml Lab File ID: d:jr22d31

% Moisture: na decanted: (Y/N) N Date Received:

Extraction: (SepF/Cont/Sonc) sepf Date Extracted: 12/21/95

Concentrated Extract Volume: 10 (ml) Date Analyzed: 01/24/96

Injection Volume: 1 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

EMSL

LABORATORY DELIVERABLES

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables shall be included in the data submission. All deviations from the accepted methodology and procedures, or performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The proposed "Technical Requirements for Site Remediation" rules, which appeared in the May 4, 1992 New Jersey Register, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits be included in one section of the data package and in the main body of the report.

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name, address & date of report.	X
2.	Table of Contents	X
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	X
4.	Summary Table cross-referencing field ID #'s vs. Lab ID #'s.	X
5.	Document bound, paginated and legible.	X
6.	Chain of Custody	X
7.	Methodology Summary	X
8.	Laboratory Chronicle and Holding Time Check.	X
9.	Results submitted on a dry weight basis (if applicable).	X
10	Method Detection Limits.	X
11	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	X
12	Non-Conformance Summary	X

Paul Tomaris

Laboratory Manager or Environmental Consultant's Signature

2-26-96

Date

EMSL

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

A. Checklist which must be attached to the Summary

The following information must be reported in the Closure Plan Implementation Summary for all laboratory analyses performed in the compliance with the site assessment requirements:

Page #		
1	1.	Name and address of the facility.
1	2.	Name of the laboratory performing the sample analysis.
1	3.	NJDEP certification number assigned to the laboratory pursuant to N.J.A.C. 7:18.
1	4.	Laboratory sample identification number.
1	5.	Customer sample identification number corresponding to the laboratory sample identification.
1	6.	Sample Location (also on the site diagram).
1	7.	Matrix of the sample analyzed (i.e., water or sediments; including soil, sediment, and sludges). All sediment results must be reported on a dry weight basis.
32-34	8.	The reference for the method used (e.g., EPA Method 625, 40 CFR Part 136).
1	9.	The signature of the person completing the report form.
1	10.	The dates the laboratory report form was prepared, as well as the dates the sample were collected, submitted and analyzed.
35	11.	A list of all parameters (constituents and conditions) for which the analyses were performed.
4-24	12.	Sample results and corresponding units for each parameter.

CHAIN OF CUSTODY

EMSL ANALYTICAL INC

3 Cooper Street
Westmont, New Jersey 08108
609-858-9573
609-858-4571 (Fax)

Chain of Custody / Analysis Request Form

EMSL Project # 95129581
PO # IJO#95-0091/SAI

Custody and Sample Information - Print ALL information. Put N/A in blanks not applicable. Press firmly.

1. Report to:	2. Bill to:	Project:
US ARMY FT.MONMOUTH Charles Appleby SELFM-PW-EV Env.Lab.Cert#13461		Bldg 290 MW SAMPLING Tel #: 908-532-6224 FAX #:

3. Sampled by (Signature)	4. # of Samples in Shipment	5. Date of Sample Shipment	6. Date Results Needed
Baxter/Palilonis			

Indicate Analysis Requested: VOA 524.2 + Lib (Xylene); TPHC +30 + TAL

Item No.	Sample Number	Station Location / Sample ID	COMP	GRAB	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO_3	H_2SO_4	ICE	NONE	OTHER	Sampling: Date	Time	Number of Containers	VOA 524.2 + Lib (Xylene)	TPHC +30 + TAL								Laboratory Number
1	2006.1	MW1-2933761		X												12/18	1232		X	X								58311
2	2002.2	TB		X												↓	700		X									12
3	2002.3	FB		X												↓	1450		X	X								13
4																												
5																												
6																												
7																												
8																												
9																												

Released by (Signature)	Date/Time Released	Delivery Method	Received by (Signature)	Company/Agency Affiliation	Date/Time Received	Condition Noted
S. Hubbard	12/18/95 / 1600		[signature]	EMSL	12-18-95 / 1600	
	/				/	
	/				/	

Please indicate turnaround time: **standard** (circled) 10D 5D 72HR 48HR 24HR (Must call for quick turn)

Comments: Page 1 of 1
* A drawing depicting sample location on reverse side.

Please indicate reporting requirements:
1) Results only 2) Results & QC 3) Reduced Deliverables

0027-A

INTERNAL CHAIN OF CUSTODY(ORGANICS)

MPLE No(S).	ANALYSIS	DATE ANALYZED	NAME (PRINT)	NAME (SIGNATURE)
59189-96	602+MTBE	12/28/95	S. VanEtten	SV
[illegible]	TELEMARK	[illegible]	[illegible]	
[illegible]	"	[illegible]	[illegible]	
58920	"	1-4-96	S. VanEtten	SV
59346	BNA625+	1-3-96	S. VanEtten	SV
96 00201	GASOLINE	01/04/96	M. CIAMPI	
9658432	VOA +LS +TICs	01/09/96	M. CIAMPI	
9658920	BTEX 8240	01/04/96	M. CIAMPI	
9558823	VOA +QC	~~knee 01/04~~ 12/29/95	M. CIAMPI	
9555831-59346	5242	12/29/95/1/4/96	S. Kessler	
96-275	PAH	1-10-96	S. VanEtten	SV
59202/4	BNA625	1-10-96	S. VanEtten	SV
59223	BNA625	1-10-96	S. VanEtten	SV
96-271+4	TCLP BNA	1-11-96	S. VanEtten	SV
96-465	" "	1-11-96	S. VanEtten	SV
95 58731, 32, 54	TCL VOA +TIC/AC TICs + SCOTT	12/29/95 - 01/05/96	M. CIAMPI	
9559334-339	VOA +LS +TICs	01/04/96	M. CIAMPI	
9558873-882	VOA +LS	12/26 - 12/28/95	M. CIAMPI	
9559168, 70	VOA	12/29/95 - 01/04/96	M. CIAMPI	
9559771-774	VOA +LS +TICs	01/09/96	M. CIAMPI	
96 00271, 274	TCLP	01/11/96	M. CIAMPI	
483-507	BTEX/MTBE	1/11-12/96	S. VanEtten	SV

028

INTERNAL CHAIN OF CUSTODY(ORGANICS)

SAMPLE No(S).	ANALYSIS	DATE ANALYZED	NAME (PRINT)	NAME (SIGNATURE)
9556580	VOA 8240	12/20/95	M. CIAMPI	[signature]
56178	BNA625	12/21/95	S. VanEtten	[signature]
56570-85	8021/8240	12/18, 12/19, 12/20	S. Kossler	[signature]
9556805-807	VOA + CS	12/15 - 12/26	M. CIAMPI	[signature]
9556784	VOA + CS	12/14 - 12/26	M. CIAMPI	[signature]
9556785-88	VOA + NAPH + CS	12/14 - 12/26	M. CIAMPI	[signature]
9558182	TCLP	12/22 - 12/26	M. CIAMPI	[signature]
9558375	TCLP	12/22 - 12/26	M. CIAMPI	[signature]
9557701	TCLP	12/22 - 12/26	M. CIAMPI	[signature]
9557087-99	TCLP	12/21 - 12/26	M. CIAMPI	[signature]
9558050-51	BTEX 8240	12/22 - 12/26	M. CIAMPI	[signature]
9558378-83	BTEX	12/22 - 12/26	M. CIAMPI	[signature]
9558366	BENZENE + QC	12/22 - 12/26	M. CIAMPI	[signature]
9557838	BENZENE + QC	12/22 - 12/26	M. CIAMPI	[signature]
9556789-96	VOA + CS	12/14 - ~~12/26~~ 12/27	M. CIAMPI	[signature]
9557835	VOA + AC/AC + 2CEVE + DCBS	12/26/95	M. CIAMPI	[signature]
9557836	VOA + AC/AC + 2CEVE + DCBS	12/26/95	M. CIAMPI	[signature]
9557564	VOA + AC/AC + 2CEVE + DCBS	12/20 - 12/26/95	M. CIAMPI	[signature]
9558188-91, 95-96	BNA625 +	12/26/95	S. VanEtten	[signature]
58311 + 13	TCLBNA +	"	S. VanEtten	[signature]
58314-7	BN625 +	"	S. VanEtten	[signature]
9556808-812	VOA + MTBE + TBA + CS	12/14 - 12/28/95	M. CIAMPI	[signature]

029

EMSL ANALYTICAL, INC.

INTERNAL CHAIN OF CUSTODY

EMSL LAB ID NO. 55311 to 55313 PROJECT NO. GS129581

SAMPLE/CONTAINERS

PARAMETERS B/N, Pest/PCB

DATE	TIME	ANALYSIS	NAME (PRINT)	SIGNATURE
12/23/95		B/N extraction	Charles Bartolone	Charles Bartolone
12/21/95		Pest/PCB ext	DaJuan Corbin	
12/18/95		T. Cyanide	Parvitharsingh	
12/27-12/28		Metals prep	Dominic Terenzi	

INTERNAL CUSTODY

EMSL

Project #: 95129581

Lab ID #'s: 58311-13

Analyst

	Name (please print)	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides /PCBs	Paul Laraia	Paul Laraia	1/24/96
4. Herbicides			
5. PCB's			
6. Metals:			
Flame			
Furnace	John Billings	John Billings	1/3, 1/10-1/11, 1/15, 1/24, 1/29/96
ICP	John A Lewis	John A Lewis	1/3/96
7. Volatiles:			
GC			
GC/MS			
8. TOC			
9. TOX			
10. Phenols (Total)			
11. Cyanide (Total)			
12. TPH -IR			
13. Mercury	John Lewis	John Lewis	12/27/95
14. Other			
15. Other			
16. Other			

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

IJO#95-0091
BLDG.#: 290 MW#: 2 NJDEPE WELL ID # 29[redacted]33761
LABORATORY: EMSL Analytical Services, NJDEP CERT # 04653
SAMPLING CONTRACTOR: EMSL Analytical Services Inc.
SAMPLERS NAMES: Tom Baxter, Susan Palilonis 0946

DATE: 11-28-95
WEATHER CONDITIONS: Breezy, Cool

ELEVATION OF CASING SURVEY MARK: ____.____FT
TOTAL DEPTH FROM TOP OF SURVEYORS MARK: 11.17 FT
DEPTH FROM SURVEYORS MARK TO SCREEN: ____.____FT
LENGTH OF SCREENED SECTION: ____.____FT
DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 3.06 FT
ELEVATION OF GW PRIOR TO PURGING: ____.____FT
THICKNESS OF LNAPL PRIOR TO PURGING: 0.0 FT

PID/Hnu READING IMMEDIATELY AFTER CAP REMOVAL: 4 PPM None Detc.
DEPTH OF WELL: ____.____FT HEIGHT OF WATER: ____.____FT
GAL OF H2O TO BE EVACUATED (EST) 16 GAL
(8.11 X 0.65 X 3 = 15.81)
PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) Pump
PURGE RATE (0.5 GPM) : 2 GPM

PURGE START TIME: 1008
pH: 4.49 s.u. TEMP: 17.5 Deg.C
Dissolved Oxygen: 2.4 PPM Specific Conductivity: 192 us/cm

PURGE END TIME: 1017
pH: 4.23 s.u. TEMP: 18.6 Deg.C
Dissolved Oxygen: 1.1 PPM Specific Conductivity: 186 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 3.56 FT 1021
SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSPM 1992) TEFLON (R) BAILER
TOTAL VOLUME PURGED : 16 GAL.
pH: 4.26 s.u. TEMP: 18.7 Deg.C
Dissolved Oxygen: 1.7 PPM Specific Conductivity: 186 us/cm

COMMENTS: water Filled inside casing

METHODOLOGY SUMMARY

METHODOLOGY SUMMARY

EPA Method 524.2 - Aqueous

This is a purge and trap gas chromatograph/mass spectrometer (GC/MS) method. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer.

An HP5890/5970 GC/MS was used with a capiullary column (DB-624 0.53 mn ID).

Method detection limits are as stated.

Semivolatiles by GC/MS - Aqueous

EPA Method 625 - This is a gas chromatograph/mass spectrometer (GC/MS) method applicable to the determination of a number of organic compounds that are partitioned in an organic solvent and amenable to gas chromatography. Reference is Federal Register, Vol. 40, No. 136, July, 1988.

An HP5890/5970B GC/MS is used with a DB-5 fused silica capillary column.

If tentatively identified compounds are requested, a computer program analyzes the non-priority pollutant/HSL/TCL compounds with standard mass spectra found in the latest version of the NIH/NBS/EPA mass spectral library.

Method detection limits are as stated.

Pesticides/PCB's - Aqueous

EPA Method 608 - This method covers the determination of pesticides and polychlorinated biphenyls (PCB's) in samples by extraction/concentration with organic solvents and subsequent qualification/quantification by Gas Chromatography. The gas chromatograph utilizes an electron capture detector (ECD) which is applicable for the determination of the compounds listed for this method in the U.S.E.P.A. Manual entitled "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater".

Metals - Aqueous (Total)

This is a procedure used to determine metals concentrations in aqueous matrices. It involves an acidic digestion under oxidizing conditions of approximately 100 milliliters of sample. Nitric and hydrochloric acids as well as hydrogen peroxide are employed in the digestion. The digested sample is filtered and diluted to 100 milliliters. The analysis is performed by ICP, furnace atomic absorption or flame atomic absorption. Reference methods are SW-846 3rd Edition, September 1986, Revised July 1992, EPA Methods for the Chemical Analysis of Water and Wastes, Revised, March 1983 and Methods for the Determination of Metals in Environmental Samples EPA/600/4-91/010 June 1991.

METHODOLOGY SUMMARY

Mercury, Solid/Aqueous

SW 846 Method 7471, a cold-vapor atomic absorption method, is based on the absorption of radiation at the 253.7-nm wavelength by mercury vapor. The mercury is reduced to the elemental state and aerated from solution in a closed system. The mercury vapor passes through a cell positioned in the light path of an atomic absorption spectrophotometer. Absorbance (peak height) is measured as a function of mercury concentration.

Total Cyanide

An aliquot of sample is acidified under analysis conditions liberating cyanide as HCN. A distillation follows leaving behind interferences and scrubbing the distilled HCN in sodium hydroxide solution. An aliquot of the NaOH solution is analyzed colorimetrically for cyanide ion. Reference method is EPA Method 335.2.

EMSL

LABORATORY CHRONICLE

Lab ID: **95-58311 to 95-58313** Client: **E. Systems**

	I DATE	II	Hold Time
Date Sampled	**12/18/95**		
Receipt/Refrigeration	**12/18/95**		
Extractions			
1. Semivolatile Organics	**12/23/95**		**7 days**
2. Pest/PCB	**12/21/95**		**7 days**
3. Metals Prep.	**12/27-28/96**		
Analyses			
1. Volatile Organics	**12/29/95**		**14 days**
2. Semivolatile Organics	**12/26/95**		**40 days**
3. Pest/PCB	**1/24/96**		**40 days**
4. Metals	**1/3-29/96**		**6 months**
5. Mercury	**12/27/95**		**28 days**
6. Total Cyanide	**12/28/95**		**14 days**

QC Supervisor
Review & Approval

(Signature) Paul Travis for
(Printed Name) Peter B. Panton

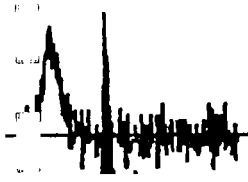
(Date) 2-23-96

NOTE: If fractions are re-extracted and re-analyzed because the initial endeavors failed to meet the required Quality Control Criteria, the dates of re-extraction and/or re-analysis will be entered in Column II Additionally.

EMSL

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

		No	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)		X
2.	GC/MS Tune Specifications		
	a. BFB Meet Criteria		X
	b. DFTPP Meet Criteria		X
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series.		X
4,	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of. sample analysis for 600 series and 12 hours for 8000 series.		X
5.	GC/MS Calibration - Initial Requirements		
	a. Calibration Check Compounds		X
	b. System Performance Check Compounds		X
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		X
	a. VOA Fraction **Methylene Chloride 0.90 ppb.**		
	b. B/N Fraction **46360 MS/MSD: Di-n-butylphthalate 5 ppb.**		
	c. Acid Fraction		
7.	Surrogate Recoveries Meet Criteria		X
	If not met, list those compounds and their recoveries which fall outside the acceptable range:		
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
	If not met, were the calculations checked and the results qualified as "estimated"?		
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		X
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
9.	Internal Standard Area/Retention Time Shift Meet Criteria **58311 - 58317 IS #6 outside QC limits.**	X	



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GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT, cont.

		No	Yes
10.	Extraction Holding Time Met		X

If not met, list number of days exceeded for each sample:

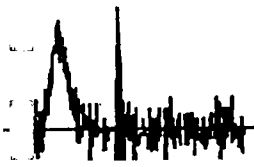
		No	Yes
11.	Analysis Holding Time Met		X

If not met, list number of days exceeded for each sample:

12. Definitions:
U=Not Detected. J=Detected, but below report detection limit.
B=Compound found in blank. E=Estimated concentration. NA=Not Applicable

Additional Comments:

Laboratory Manager Paul Tarara Date: 2-21-96



EMSL

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

		No	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)		X
2.	Standards Summary Submitted		X
3.	Calibration-Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis.		X
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:	X	
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
	d. Pesticides/PCB's		
	e. Other		
5.	Surrogate Recoveries Meet Criteria (If Applicable)	X	
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
	d. Pesticides/PCB's **MS/MSD and associated blank had TCX recovery outside QC limits on both columns, DCB recovery was within limits.**		
	e. Other		
	If not Met, were the calculations checked and the results qualified (if applicable)		
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (if applicable)		X
	(if not met, list those compounds and their recoveries which fall outside the acceptable range)		
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
	d. Pesticides/PCB's		
	e. Other		
7.	Retention Time Shift Meet Criteria (if applicable)		X

EMSL

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT, cont.

		No	Yes
8.	Extraction Holding Time Met		X
	If not met, list number of days exceeded for each sample:		
	_____		
	_____		
9.	Analysis Holding Time Met		X
	If not met, list number of days exceeded for each sample:		
	_____		
	_____		

10. Definitions:
U=Not Detected. J=Detected, but below report detection limit. B=Compound found in blank. E=Estimated concentration. NA=Not Applicable

Additional Comments: _____

_____

_____

Laboratory Manager: Paul Lewis Date: 2-21-96

EMSL

METALS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMA

		No	Yes
1.	Calibration Summary Meet Criteria		X
2.	ICP Interference Check Sample Results Summary Submitted (if applicable) Meet Criteria		X
3.	Serial Dilution Summary Submitted (if applicable) / Meet Criteria		X
4.	Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria		X
5.	Blank Contamination - If yes, list compounds and concentrations in each blank.	X	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (if not met, list those compounds and their recoveries which fall outside the acceptable range) **Thallium 21% recovery.**	X	
7.	Extraction Holding Time Met		X
	If not met, list number of days exceeded for each sample:		
8.	Analysis Holding Time Met		X
	If not met, list number of days exceeded for each sample:		

9. Definitions: U=Not Detected. J=Detected, but below report detection limit. B=Compound found in blank, E=Estimated concentration. NA=Not Applicable

Additional Comments: _____

Laboratory Manager: Paul Tarasy Date: 2-21-96

GC/MS VOLATILE ORGANIC DATA PACKAGE

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID: C0610.D BFB Injection Date: 12/18/95

Instrument ID: 5972-INSTRUMENT 1 BFB Injection Time: 1640

GC Column DB-62 ID: 0.53 (mm) Heated Purge: (Y / N) _____

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	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.6
175	5.0 - 9.0% of mass 174	4.7 (7.4)1
176	95.0 - 101.0% of mass 174	62.9 (98.9)1
177	5.0 - 9.0% of mass 176	4.2 (6.7)2

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

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

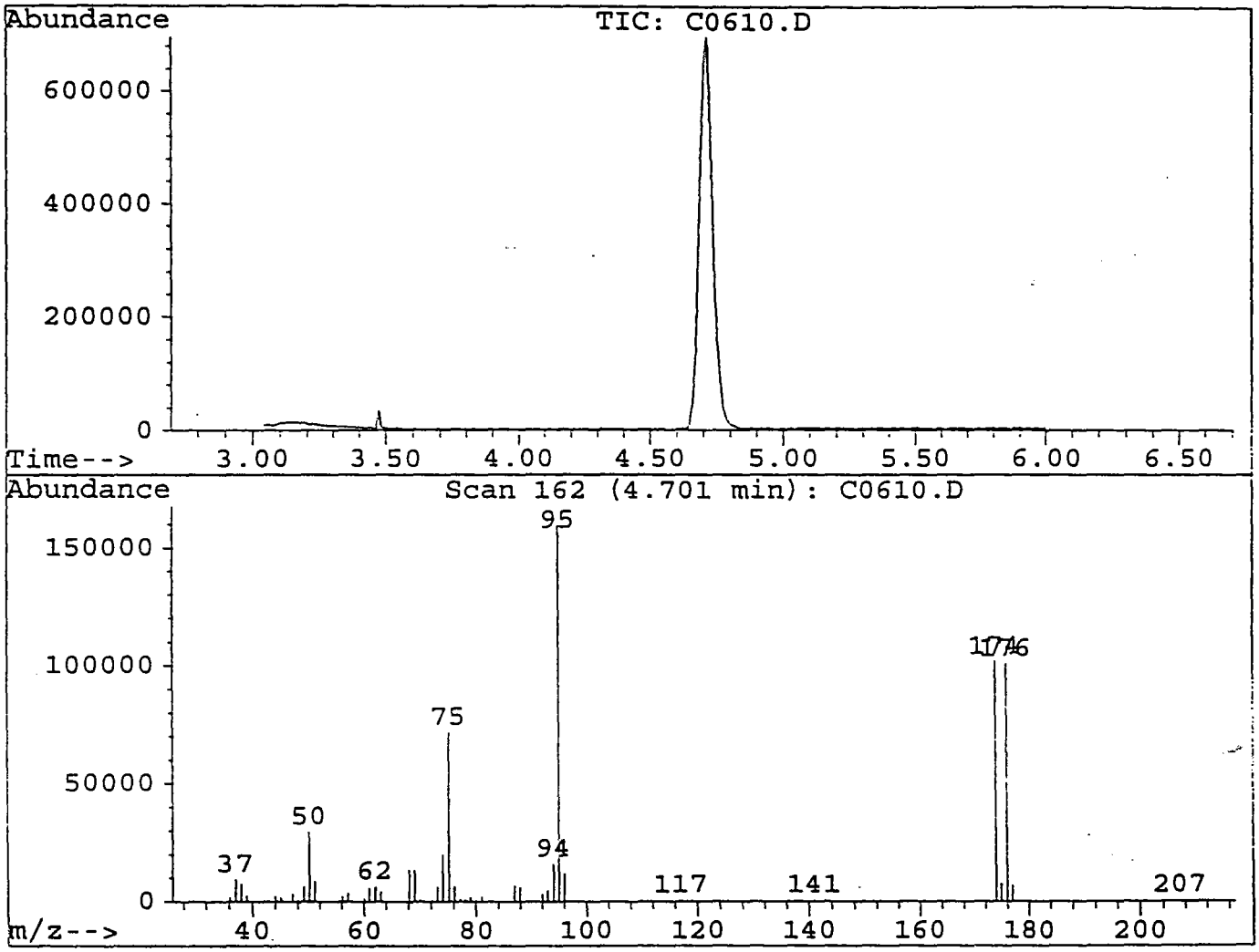
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		0.5 PPB STANDARD	C0611.D	12/18/95	1653
02		10 PPB STANDARD	C0612.D	12/18/95	1727
03		20 PPB STANDARD	C0613.D	12/18/95	1801
04		30 PPB STANDARD	C0614.D	12/18/95	1836
05		40 PPB STANDARD	C0615.D	12/18/95	1910
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

CLPBFB

Data File : D:\HPCHEM\1\DATA\C0610.D
Acq On : 18 Dec 95 4:40 pm
Sample : BFB TUNE
Misc : 50 NG INJECTION

Vial: 1
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics



Peak Apex is scan: 162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	29648	PASS
75	95	30	80	44.8	71608	PASS
95	95	100	100	100.0	159872	PASS
96	95	5	9	7.3	11653	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	63.6	101680	PASS
175	174	5	9	7.4	7494	PASS
176	174	95	101	98.9	100576	PASS
177	176	5	9	6.7	6725	PASS

C0610.D VOA524.M Tue Dec 19 13:51:42 1995 VOA

Scan 162 (4.701 min): C0610.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1951	51.05	8686	72.05	774	87.00	6910
37.10	9477	55.05	543	73.05	6276	87.95	5903
38.10	7601	56.10	2264	74.05	20048	90.95	540
39.10	2622	57.10	3783	75.05	71608	92.05	3239
40.00	562	60.10	1637	76.05	6530	93.05	4789
44.00	2493	61.00	5859	77.10	1173	94.05	15988
45.00	1687	62.00	6282	78.00	918	95.05	159872
47.05	3137	63.00	4298	79.00	1963	96.05	11653
48.05	1090	68.05	13513	80.00	687	116.95	676
49.05	6503	69.05	13174	81.00	2275	118.90	565
50.05	29648	70.05	980	82.00	509	140.90	664

Scan 162 (4.701 min): C0610.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.90	660						
173.95	101680						
174.95	7494						
175.95	100576						
176.95	6725						
207.00	554						

Response Factor Report 5972 - In

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Initial Calibration

Calibration Files
0.5 =C0611.D 10 =C0612.D 20 =C0613.D
30 =C0614.D 40 =C0615.D

		Compound	0.5	10	20	30	40	Avg	%RSD
1)		Fluorobenzene	----------ISTD----------						
2)	M	Dichlorodifluorometha	0.188	0.216	0.206	0.209	0.206	0.205	5.14
3)	M	Chloromethane	0.200	0.212	0.202	0.199	0.195	0.202	3.20
4)	M	Vinyl chloride	0.192	0.229	0.219	0.216	0.215	0.214	6.39
5)	M	Bromomethane	0.132	0.119	0.119	0.119	0.117	0.121	5.05
6)	M	Chloroethane	0.132	0.148	0.137	0.126	0.108	0.130	11.36
7)	M	Trichlorofluoromethan	0.355	0.395	0.385	0.374	0.373	0.376	3.98
8)	M	1,1-Dichloroethene	0.215	0.244	0.238	0.238	0.238	0.234	4.85
9)	M	Methylene chloride		0.252	0.217	0.209	0.201	0.220	10.33
10)	M	trans-1,2-Dichloroeth	0.242	0.275	0.274	0.272	0.273	0.267	5.30
11)		Hexane						0.000#	-1.00
12)	M	1,1-Dichloroethane	0.463	0.514	0.505	0.504	0.500	0.497	3.94
13)	M	2,2-Dichloropropane	0.385	0.424	0.414	0.407	0.403	0.407	3.60
14)	M	cis-1,2-Dichloroethen	0.233	0.261	0.256	0.260	0.259	0.254	4.70
15)		2-Butanone						0.000#	-1.00
16)	M	Bromochloromethane	0.092	0.099	0.099	0.102	0.101	0.098	3.88
17)	M	Chloroform	0.416	0.446	0.443	0.445	0.443	0.439	2.92
18)	M	1,1,1-Trichloroethane	0.417	0.459	0.452	0.453	0.452	0.447	3.75
19)	M	Carbon tetrachloride	0.347	0.420	0.418	0.417	0.419	0.404	7.88
20)	M	1,1-Dichloropropene	0.379	0.432	0.425	0.421	0.420	0.416	5.07
21)	M	Benzene	0.858	0.870	0.854	0.855	0.846	0.857	1.00
22)	M	1,2-Dichloroethane	0.148	0.167	0.164	0.168	0.165	0.163	5.22
23)	M	Trichloroethene	0.319	0.358	0.356	0.355	0.354	0.348	4.74
24)	M	1,2-Dichloropropane	0.265	0.293	0.291	0.291	0.284	0.285	4.02
25)	M	Dibromomethane	0.102	0.115	0.114	0.117	0.115	0.113	5.20
26)	M	Bromodichloromethane	0.296	0.350	0.349	0.356	0.352	0.341	7.39
27)	M	cis-1,3-Dichloroprope	0.275	0.321	0.323	0.326	0.319	0.313	6.85
28)	M	Toluene	0.643	0.626	0.619	0.619	0.613	0.624	1.84
29)	M	trans-1,3-Dichloropro	0.176	0.213	0.214	0.217	0.211	0.206	8.35
30)	M	1,1,2-Trichloroethane	0.095	0.112	0.113	0.115	0.113	0.110	7.81
31)	M	Tetrachloroethene	0.384	0.419	0.414	0.415	0.416	0.410	3.50
32)	M	1,3-Dichloropropane	0.201	0.216	0.216	0.221	0.213	0.213	3.54
33)	M	Dibromochloromethane	0.185	0.218	0.220	0.228	0.225	0.215	7.98
34)	M	1,2-Dibromoethane	0.136	0.158	0.161	0.164	0.161	0.156	7.38
35)	M	Chlorobenzene	0.610	0.678	0.670	0.677	0.662	0.660	4.33
36)	M	1,1,1,2-Tetrachloroet	0.235	0.270	0.271	0.275	0.272	0.265	6.34
37)	M	Ethylbenzene	1.163	1.285	1.258	1.256	1.241	1.241	3.71
38)	M	Xylene (para & meta)	0.447	0.496	0.479	0.476	0.468	0.473	3.77
39)	M	Xylene (Ortho)	0.400	0.438	0.429	0.431	0.424	0.424	3.45
40)	M	Styrene	0.545	0.654	0.645	0.650	0.637	0.626	7.34
41)	M	Bromoform		0.115	0.119	0.123	0.121	0.119	3.09
42)	M	Isopropylbenzene	1.121	1.253	1.227	1.229	1.217	1.210	4.23
43)	S	4-Bromofluorobenzene	0.478	0.470	0.471	0.472	0.467	0.472	0.90

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Initial Calibration

Calibration Files
0.5 =C0611.D 10 =C0612.D 20 =C0613.D
30 =C0614.D 40 =C0615.D

		Compound	0.5	10	20	30	40	Avg	%RSD
44)	M	Bromobenzene	0.248	0.284	0.281	0.287	0.282	0.276	5.82
45)	M	1,1,2,2-Tetrachloroet	0.124	0.145	0.145	0.148	0.144	0.141	6.83
46)	M	1,2,3-Trichloropropan	0.138	0.131	0.138	0.132	0.136	0.135	2.43
47)	M	n-Propylbenzene	1.571	1.739	1.693	1.687	1.669	1.672	3.70
48)	M	2-Chlorotoluene	0.913	1.006	0.985	0.977	0.953	0.967	3.67
49)	M	4-Chlorotoluene	0.963	1.084	1.051	1.048	1.029	1.035	4.32
50)	M	1,3,5-Trimethylbenzen	0.944	1.065	1.037	1.039	1.028	1.023	4.51
51)	M	tert-Butylbenzene	0.997	1.086	1.192	1.068	1.045	1.078	6.70
52)	M	1,2,4-Trimethylbenzen	0.917	1.036	1.011	1.011	0.992	0.993	4.60
53)	M	sec-Butylbenzene	1.506	1.697	1.648	1.638	1.615	1.621	4.35
54)	M	1,3-Dichlorobenzene	0.515	0.574	0.562	0.563	0.552	0.553	4.14
55)	M	4-Isopropyltoluene	1.161	1.354	1.304	1.297	1.272	1.277	5.60
56)	M	1,4-Dichlorobenzene	0.502	0.555	0.544	0.544	0.532	0.536	3.80
57)	S	1,2-Dichlorobenzene-d	0.281	0.280	0.278	0.280	0.268	0.278	1.91
58)	M	1,2-Dichlorobenzene	0.400	0.433	0.425	0.429	0.417	0.421	3.04
59)	M	n-Butylbenzene	1.197	1.397	1.349	1.340	1.317	1.320	5.65
60)	M	1,2-Dibromo-3-chlorop		0.026	0.026	0.028	0.027	0.027	3.34
61)	M	1,2,4-Trichlorobenzen	0.307	0.351	0.347	0.355	0.346	0.341	5.76
62)	M	Hexachlorobutadiene	0.278	0.329	0.323	0.329	0.322	0.316	6.81
63)	M	Naphthalene	0.339	0.336	0.339	0.345	0.332	0.338	1.40
64)	M	1,2,3-Trichlorobenzen	0.216	0.257	0.254	0.262	0.250	0.248	7.38
65)		Methyl-tert butyl eth		0.266	0.264	0.271	0.263	0.266	1.38
66)		tert-Butyl Alcohol		0.004	0.004	0.004	0.004	0.004	5.17

(#) = Out of Range

Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0611.D
Acq On : 18 Dec 95 4:53 pm
Sample : 0.5 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:50 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Mon Dec 18 17:39:51 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.07	96	1410703	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.31	95	674726	4.43	ug/L		88.60%
57) 1,2-Dichlorobenzene-d4	22.11	152	396261	4.15	ug/L		82.99%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.44	85	26510	0.35	ug/L		94
3) Chloromethane	3.84	50	28198	0.49	ug/L		95
4) Vinyl chloride	4.05	62	27080	0.42	ug/L		85
5) Bromomethane	4.79	94	18626	0.42	ug/L	#	80
6) Chloroethane	5.00	64	18626	0.52	ug/L		99
7) Trichlorofluoromethane	5.56	101	50085	0.45	ug/L		88
8) 1,1-Dichloroethene	6.67	96	30283	0.45	ug/L		94
9) Methylene chloride	7.68	84	308737	4.62	ug/L		98
10) trans-1,2-Dichloroethene	8.23	96	34130	0.45	ug/L		97
12) 1,1-Dichloroethane	9.01	63	65371	0.46	ug/L		95
13) 2,2-Dichloropropane	10.06	77	54250	0.45	ug/L		98
14) cis-1,2-Dichloroethene	10.07	96	32804	0.44	ug/L		96
16) Bromochloromethane	10.51	128	12987	0.40	ug/L		95
17) Chloroform	10.65	83	58675	0.44	ug/L		89
18) 1,1,1-Trichloroethane	10.95	97	58842	0.46	ug/L		94
19) Carbon tetrachloride	11.24	117	48969	0.40	ug/L		96
20) 1,1-Dichloropropene	11.24	75	53433	0.45	ug/L		96
21) Benzene	11.60	78	121095	0.49	ug/L		97
22) 1,2-Dichloroethane	11.63	62	20829	0.38	ug/L		96
23) Trichloroethene	12.69	95	45011	0.44	ug/L		90
24) 1,2-Dichloropropane	13.07	63	37391	0.44	ug/L		87
25) Dibromomethane	13.28	93	14440	0.39	ug/L	#	83
26) Bromodichloromethane	13.55	83	41730	0.38	ug/L		99
27) cis-1,3-Dichloropropene	14.29	75	38735	0.39	ug/L		98
28) Toluene	14.87	92	90694	0.52	ug/L		99
29) trans-1,3-Dichloropropene	15.23	75	24799	0.36	ug/L		89
30) 1,1,2-Trichloroethane	15.54	83	13334	0.36	ug/L		93
31) Tetrachloroethene	15.82	166	54196	0.44	ug/L		96
32) 1,3-Dichloropropane	15.84	76	28304	0.41	ug/L		99
33) Dibromochloromethane	16.24	129	26111	0.36	ug/L		96
34) 1,2-Dibromoethane	16.45	107	19123	0.36	ug/L	m	95
35) Chlorobenzene	17.29	112	86019	0.43	ug/L		96
36) 1,1,1,2-Tetrachloroethane	17.44	131	33132	0.40	ug/L		92
37) Ethylbenzene	17.48	91	164092	0.46	ug/L	m	65
38) Xylene (para & meta)	17.67	106	126091	0.94	ug/L		93
39) Xylene (Ortho)	18.38	106	56402	0.46	ug/L		92
40) Styrene	18.41	104	76878	0.41	ug/L		97

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0611.D
Acq On : 18 Dec 95 4:53 pm
Sample : 0.5 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:50 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Mon Dec 18 17:39:51 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
41)	Bromoform	18.75	173	12260	0.31	ug/L	97
42)	Isopropylbenzene	19.03	105	158171	0.46	ug/L	95
44)	Bromobenzene	19.60	156	34990	0.39	ug/L	97
45)	1,1,2,2-Tetrachloroethane	19.56	83	17548	0.39	ug/L	93
46)	1,2,3-Trichloropropane	19.64	75	19419	0.42	ug/L m	24
47)	n-Propylbenzene	19.78	91	221664	0.47	ug/L	98
48)	2-Chlorotoluene	19.94	91	128781	0.47	ug/L m	98
49)	4-Chlorotoluene	20.13	91	135904	0.44	ug/L	99
50)	1,3,5-Trimethylbenzene	20.09	105	133193	0.45	ug/L	96
51)	tert-Butylbenzene	20.68	119	140621	0.42	ug/L m	99
52)	1,2,4-Trimethylbenzene	20.77	105	129296	0.43	ug/L	99
53)	sec-Butylbenzene	21.08	105	212499	0.47	ug/L	98
54)	1,3-Dichlorobenzene	21.30	146	72600	0.41	ug/L m	98
55)	4-Isopropyltoluene	21.34	119	163775	0.45	ug/L	97
56)	1,4-Dichlorobenzene	21.46	146	70849	0.41	ug/L	99
58)	1,2-Dichlorobenzene	22.14	146	56487	0.41	ug/L	99
59)	n-Butylbenzene	22.10	91	168895	0.46	ug/L	99
60)	1,2-Dibromo-3-chloropropan	23.57	75	2913	0.31	ug/L	90
61)	1,2,4-Trichlorobenzene	25.12	180	43246	0.38	ug/L	94
62)	Hexachlorobutadiene	25.44	225	39266	0.40	ug/L	100
63)	Naphthalene	25.58	128	47805	0.44	ug/L	100
64)	1,2,3-Trichlorobenzene	26.07	180	30509	0.37	ug/L	93
65)	Methyl-tert butyl ether	8.28	73	49934	0.58	ug/L	95

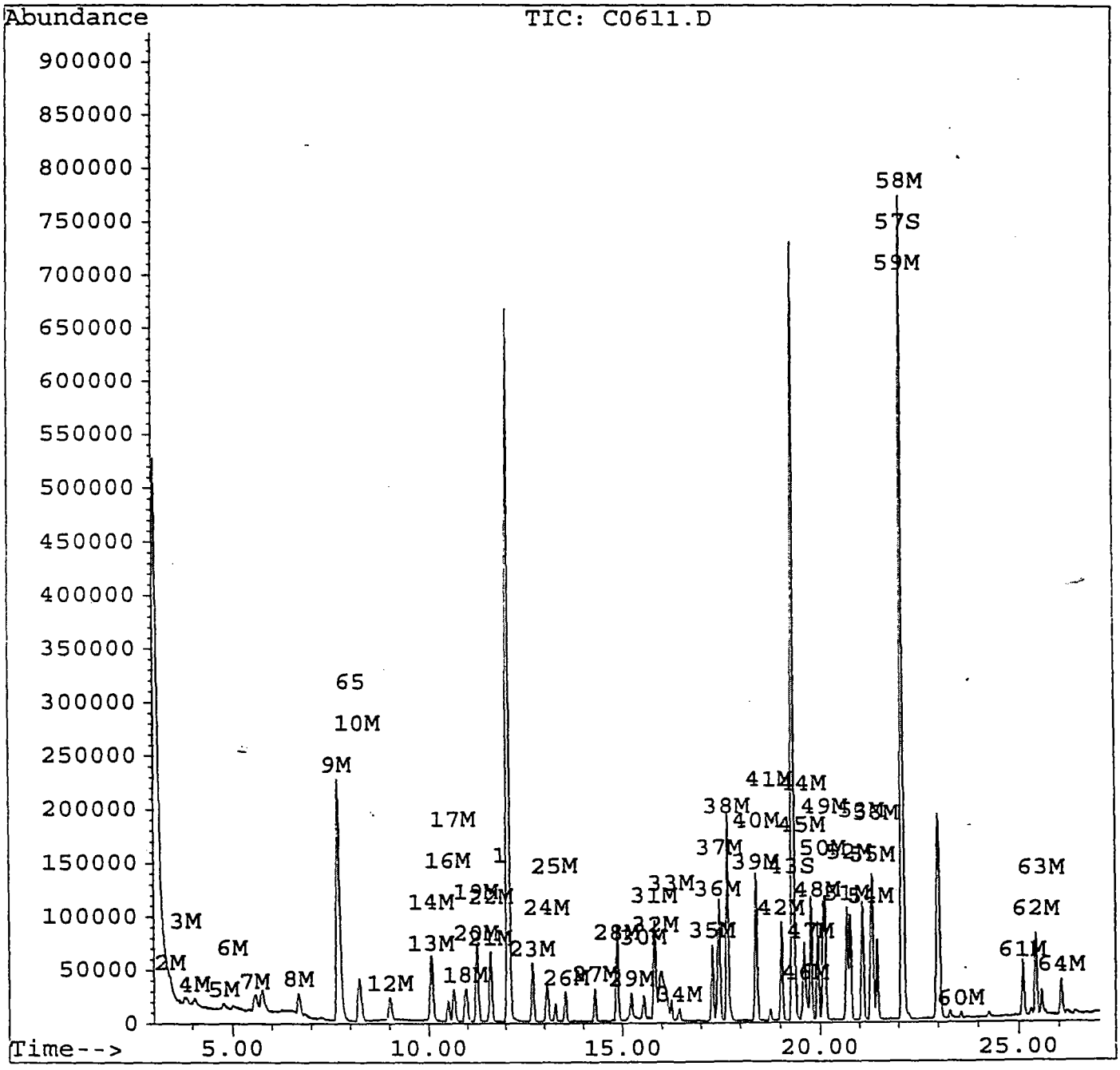
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0611.D
Acq On : 18 Dec 95 4:53 pm
Sample : 0.5 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:50 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Mon Dec 18 17:39:51 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0612.d
Acq On : 18 Dec 95 5:27 pm
Sample : 10 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:55 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.07	96	1438450	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	676254	4.35	ug/L	87.09%
57) 1,2-Dichlorobenzene-d4	22.12	152	403346	4.14	ug/L	82.84%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	622804	8.00	ug/L	99
3) Chloromethane	3.85	50	610433	10.32	ug/L	99
4) Vinyl chloride	4.07	62	659628	10.02	ug/L	99
5) Bromomethane	4.74	94	343472	7.51	ug/L	99
6) Chloroethane	4.99	64	425615	11.64	ug/L	100
7) Trichlorofluoromethane	5.58	101	1136662	10.00	ug/L	98
8) 1,1-Dichloroethene	6.68	96	702241	10.31	ug/L	99
9) Methylene chloride	7.69	84	725538	10.66	ug/L	97
10) trans-1,2-Dichloroethene	8.23	96	792522	10.19	ug/L	100
12) 1,1-Dichloroethane	9.02	63	1478477	10.12	ug/L	98
13) 2,2-Dichloropropane	10.07	77	1220112	9.99	ug/L	99
14) cis-1,2-Dichloroethene	10.08	96	749877	9.81	ug/L	96
16) Bromochloromethane	10.51	128	284264	8.58	ug/L	96
17) Chloroform	10.65	83	1283724	9.51	ug/L	99
18) 1,1,1-Trichloroethane	10.96	97	1320582	10.11	ug/L	99
19) Carbon tetrachloride	11.26	117	1207310	9.77	ug/L	99
20) 1,1-Dichloropropene	11.25	75	1242676	10.20	ug/L	99
21) Benzene	11.60	78	2501575	10.00	ug/L	100
22) 1,2-Dichloroethane	11.63	62	481648	8.59	ug/L	97
23) Trichloroethene	12.70	95	1031083	9.94	ug/L	97
24) 1,2-Dichloropropane	13.07	63	842803	9.70	ug/L	99
25) Dibromomethane	13.28	93	330109	8.66	ug/L	96
26) Bromodichloromethane	13.55	83	1008179	8.96	ug/L	99
27) cis-1,3-Dichloropropene	14.29	75	923180	9.11	ug/L	99
28) Toluene	14.87	92	1799577	10.20	ug/L	99
29) trans-1,3-Dichloropropene	15.23	75	613382	8.77	ug/L	100
30) 1,1,2-Trichloroethane	15.55	83	323232	8.60	ug/L	99
31) Tetrachloroethene	15.82	166	1204667	9.62	ug/L	97
32) 1,3-Dichloropropane	15.84	76	620713	8.73	ug/L	99
33) Dibromochloromethane	16.24	129	626620	8.38	ug/L	100
34) 1,2-Dibromoethane	16.44	107	453960	8.29	ug/L	98
35) Chlorobenzene	17.29	112	1951331	9.59	ug/L	99
36) 1,1,1,2-Tetrachloroethane	17.43	131	777407	9.20	ug/L	99
37) Ethylbenzene	17.48	91	3696407	10.19	ug/L	100
38) Xylene (para & meta)	17.68	106	2853533	20.79	ug/L	94
39) Xylene (Ortho)	18.38	106	1260630	10.01	ug/L	100
40) Styrene	18.40	104	1882088	9.74	ug/L	99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0612.d
Acq On : 18 Dec 95 5:27 pm
Sample : 10 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:55 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	329927	8.05	ug/L		98
42)	Isopropylbenzene	19.03	105	3605914	10.29	ug/L	m	0
44)	Bromobenzene	19.60	156	817692	9.00	ug/L		96
45)	1,1,2,2-Tetrachloroethane	19.56	83	417968	9.09	ug/L		99
46)	1,2,3-Trichloropropane	19.64	75	377473	7.99	ug/L	m	99
47)	n-Propylbenzene	19.78	91	5001751	10.45	ug/L		100
48)	2-Chlorotoluene	19.95	91	2893424	10.34	ug/L	m	99
49)	4-Chlorotoluene	20.14	91	3118209	10.00	ug/L		99
50)	1,3,5-Trimethylbenzene	20.09	105	3065048	10.08	ug/L		98
51)	tert-Butylbenzene	20.68	119	3125169	9.15	ug/L	m	99
52)	1,2,4-Trimethylbenzene	20.78	105	2979989	9.81	ug/L		99
53)	sec-Butylbenzene	21.08	105	4881376	10.53	ug/L		100
54)	1,3-Dichlorobenzene	21.30	146	1650878	9.18	ug/L		100
55)	4-Isopropyltoluene	21.34	119	3894952	10.45	ug/L		99
56)	1,4-Dichlorobenzene	21.47	146	1597802	9.07	ug/L		99
58)	1,2-Dichlorobenzene	22.15	146	1244718	8.76	ug/L		96
59)	n-Butylbenzene	22.09	91	4019796	10.62	ug/L		98
60)	1,2-Dibromo-3-chloropropan	23.57	75	74841	7.70	ug/L		97
61)	1,2,4-Trichlorobenzene	25.12	180	1009467	8.77	ug/L		99
62)	Hexachlorobutadiene	25.44	225	947757	9.47	ug/L		99
63)	Naphthalene	25.58	128	966149	8.68	ug/L		100
64)	1,2,3-Trichlorobenzene	26.06	180	739730	8.82	ug/L		99
65)	Methyl-tert butyl ether	8.27	73	764807	8.69	ug/L		99
66)	tert-Butyl Alcohol	8.03	59	22206	17.13	ug/L	m	100

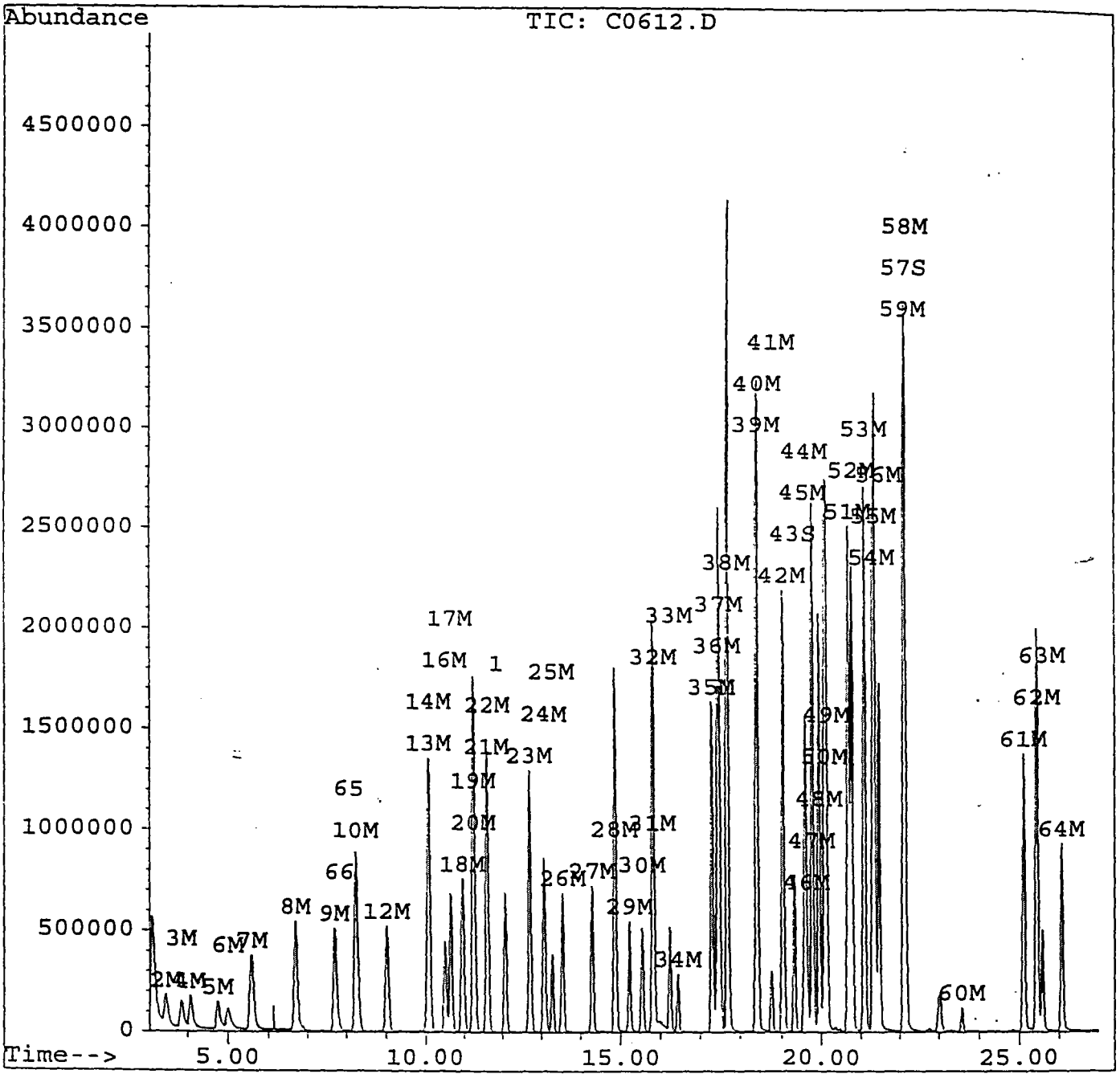
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0612.d
Acq On : 18 Dec 95 5:27 pm
Sample : 10 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:55 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0613.d
Acq On : 18 Dec 95 6:01 pm
Sample : 20 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:59 1995

Vial: 4053
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.08	96	1407214	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	662993	4.36	ug/L	87.28%
57) 1,2-Dichlorobenzene-d4	22.12	152	390880	4.10	ug/L	82.06%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.45	85	1157405	15.20	ug/L	100
3) Chloromethane	3.85	50	1135619	19.62	ug/L	99
4) Vinyl chloride	4.07	62	1232853	19.15	ug/L	100
5) Bromomethane	4.73	94	668805	14.96	ug/L	96
6) Chloroethane	4.97	64	770953	21.55	ug/L	99
7) Trichlorofluoromethane	5.56	101	2167619	19.49	ug/L	99
8) 1,1-Dichloroethene	6.68	96	1337170	20.07	ug/L	99
9) Methylene chloride	7.69	84	1220128	18.32	ug/L	95
10) trans-1,2-Dichloroethene	8.23	96	1540653	20.24	ug/L	97
12) 1,1-Dichloroethane	9.01	63	2840312	19.87	ug/L	99
13) 2,2-Dichloropropane	10.08	77	2329892	19.51	ug/L	100
14) cis-1,2-Dichloroethene	10.09	96	1442121	19.28	ug/L	100
16) Bromochloromethane	10.51	128	555971	17.15	ug/L	96
17) Chloroform	10.65	83	2494279	18.89	ug/L	100
18) 1,1,1-Trichloroethane	10.96	97	2543034	19.89	ug/L	99
19) Carbon tetrachloride	11.26	117	2351013	19.45	ug/L	99
20) 1,1-Dichloropropene	11.25	75	2393919	20.08	ug/L	99
21) Benzene	11.60	78	4808098	19.64	ug/L	99
22) 1,2-Dichloroethane	11.63	62	925848	16.88	ug/L	98
23) Trichloroethene	12.70	95	2002780	19.73	ug/L	99
24) 1,2-Dichloropropane	13.08	63	1635263	19.24	ug/L	99
25) Dibromomethane	13.28	93	641361	17.21	ug/L	96
26) Bromodichloromethane	13.55	83	1966352	17.87	ug/L	100
27) cis-1,3-Dichloropropene	14.29	75	1817611	18.33	ug/L	98
28) Toluene	14.87	92	3486596	20.19	ug/L	100
29) trans-1,3-Dichloropropene	15.23	75	1205130	17.61	ug/L	99
30) 1,1,2-Trichloroethane	15.55	83	637883	17.36	ug/L	98
31) Tetrachloroethene	15.82	166	2329861	19.02	ug/L	97
32) 1,3-Dichloropropane	15.84	76	1217712	17.50	ug/L	100
33) Dibromochloromethane	16.24	129	1240668	16.96	ug/L	100
34) 1,2-Dibromoethane	16.45	107	903843	16.87	ug/L	99
35) Chlorobenzene	17.29	112	3773745	18.96	ug/L	100
36) 1,1,1,2-Tetrachloroethane	17.44	131	1525321	18.44	ug/L	99
37) Ethylbenzene	17.48	91	7083623	19.96	ug/L	100
38) Xylene (para & meta)	17.68	106	5388703	40.14	ug/L	96
39) Xylene (Ortho)	18.39	106	2413775	19.59	ug/L	98
40) Styrene	18.41	104	3633015	19.21	ug/L	99

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

Data File : d:\hpchem\1\data\c0613.d
Acq On : 18 Dec 95 6:01 pm
Sample : 20 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:59 1995

Vial: 4
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	668039	16.66	ug/L		100
42)	Isopropylbenzene	19.04	105	6904404	20.13	ug/L	m	0
44)	Bromobenzene	19.60	156	1579998	17.78	ug/L		98
45)	1,1,2,2-Tetrachloroethane	19.56	83	813627	18.08	ug/L		99
46)	1,2,3-Trichloropropane	19.64	75	778215	16.84	ug/L	m	1
47)	n-Propylbenzene	19.78	91	9531856	20.36	ug/L		100
48)	2-Chlorotoluene	19.94	91	5543384	20.25	ug/L	m	99
49)	4-Chlorotoluene	20.14	91	5917632	19.40	ug/L		100
50)	1,3,5-Trimethylbenzene	20.09	105	5839813	19.63	ug/L		98
51)	tert-Butylbenzene	20.68	119	6709069	20.08	ug/L		99
52)	1,2,4-Trimethylbenzene	20.78	105	5692640	19.15	ug/L		99
53)	sec-Butylbenzene	21.09	105	9273631	20.44	ug/L		99
54)	1,3-Dichlorobenzene	21.30	146	3164433	17.99	ug/L		98
55)	4-Isopropyltoluene	21.34	119	7337427	20.12	ug/L		99
56)	1,4-Dichlorobenzene	21.47	146	3059938	17.75	ug/L		99
58)	1,2-Dichlorobenzene	22.15	146	2392863	17.21	ug/L		97
59)	n-Butylbenzene	22.10	91	7591468	20.51	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.57	75	145800	15.34	ug/L		97
61)	1,2,4-Trichlorobenzene	25.12	180	1950474	17.31	ug/L		99
62)	Hexachlorobutadiene	25.44	225	1819360	18.59	ug/L		99
63)	Naphthalene	25.58	128	1910502	17.55	ug/L		100
64)	1,2,3-Trichlorobenzene	26.07	180	1430512	17.43	ug/L		98
65)	Methyl-tert butyl ether	8.27	73	1486618	17.26	ug/L		100
66)	tert-Butyl Alcohol	8.04	59	44313	34.94	ug/L	m	100

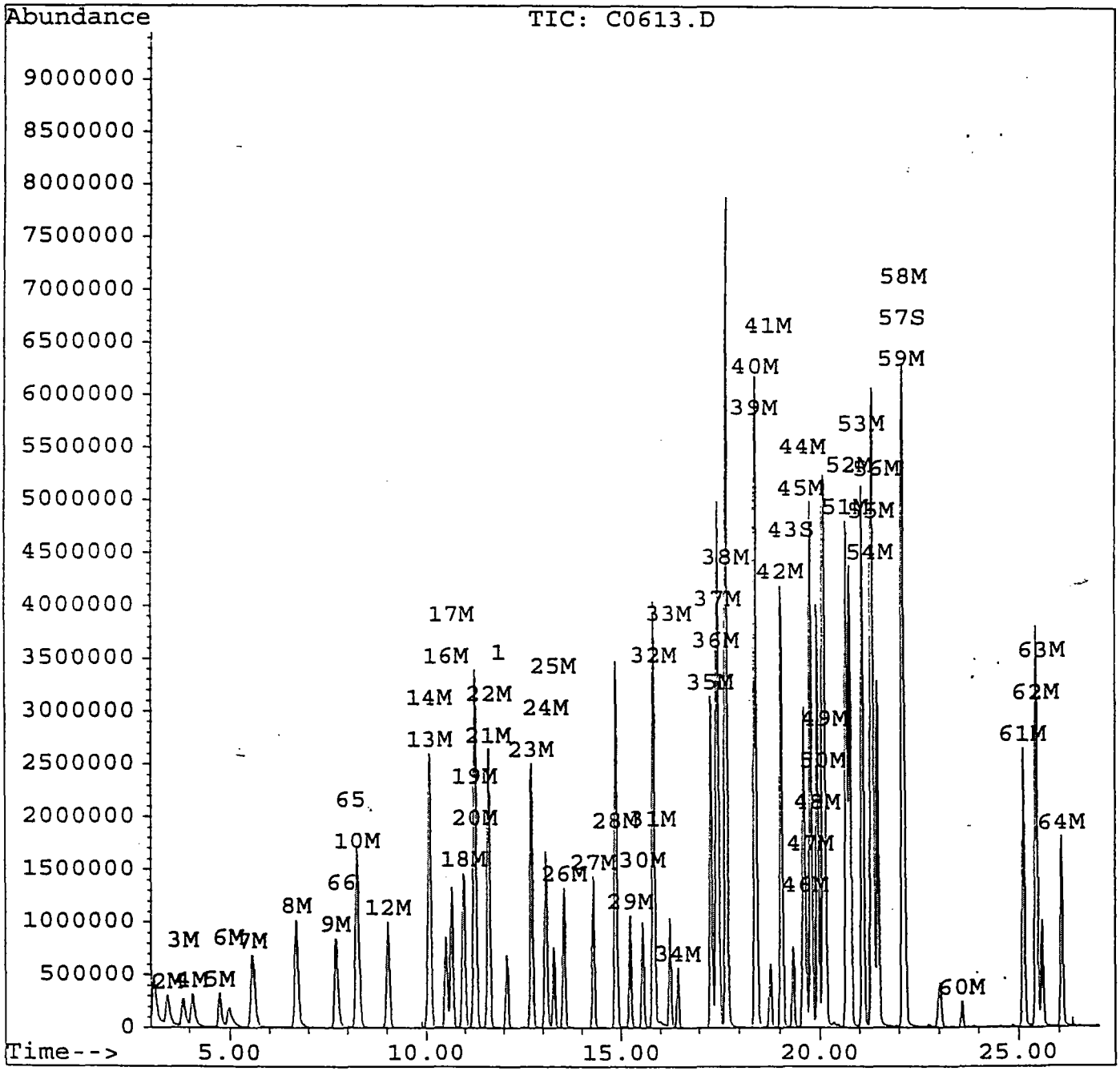
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0613.d
Acq On : 18 Dec 95 6:01 pm
Sample : 20 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 12:59 1995

Vial: 4
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration



Quantitation Report

056

Data File : d:\hpchem\1\data\c0614.d
Acq On : 18 Dec 95 6:36 pm
Sample : 30 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:03 1995

Vial: 5
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.08	96	1332396	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	629223	4.37	ug/L	87.48%
57) 1,2-Dichlorobenzene-d4	22.12	152	373341	4.14	ug/L	82.78%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	1674231	23.22	ug/L	99
3) Chloromethane	3.84	50	1589959	29.01	ug/L	99
4) Vinyl chloride	4.07	62	1728649	28.36	ug/L	98
5) Bromomethane	4.73	94	948463	22.40	ug/L	98
6) Chloroethane	4.95	64	1004742	29.66	ug/L	99
7) Trichlorofluoromethane	5.55	101	2993479	28.43	ug/L	99
8) 1,1-Dichloroethene	6.68	96	1901722	30.15	ug/L	98
9) Methylene chloride	7.69	84	1669396	26.47	ug/L	99
10) trans-1,2-Dichloroethene	8.23	96	2174013	30.17	ug/L	98
12) 1,1-Dichloroethane	9.02	63	4028967	29.77	ug/L	99
13) 2,2-Dichloropropane	10.07	77	3257364	28.80	ug/L	99
14) cis-1,2-Dichloroethene	10.08	96	2077736	29.34	ug/L	98
16) Bromochloromethane	10.52	128	812023	26.45	ug/L	98
17) Chloroform	10.66	83	3559313	28.47	ug/L	99
18) 1,1,1-Trichloroethane	10.97	97	3620306	29.91	ug/L	99
19) Carbon tetrachloride	11.26	117	3331686	29.12	ug/L	99
20) 1,1-Dichloropropene	11.26	75	3369064	29.84	ug/L	99
21) Benzene	11.61	78	6834627	29.48	ug/L	100
22) 1,2-Dichloroethane	11.63	62	1346517	25.93	ug/L	98
23) Trichloroethene	12.71	95	2836186	29.51	ug/L	99
24) 1,2-Dichloropropane	13.08	63	2324715	28.89	ug/L	100
25) Dibromomethane	13.29	93	934117	26.47	ug/L	97
26) Bromodichloromethane	13.55	83	2842039	27.28	ug/L	99
27) cis-1,3-Dichloropropene	14.30	75	2604057	27.73	ug/L	99
28) Toluene	14.88	92	4950191	30.28	ug/L	98
29) trans-1,3-Dichloropropene	15.23	75	1737974	26.82	ug/L	99
30) 1,1,2-Trichloroethane	15.55	83	922443	26.51	ug/L	99
31) Tetrachloroethene	15.83	166	3320481	28.62	ug/L	98
32) 1,3-Dichloropropane	15.84	76	1763212	26.76	ug/L	99
33) Dibromochloromethane	16.25	129	1818986	26.26	ug/L	99
34) 1,2-Dibromoethane	16.44	107	1309782	25.83	ug/L	98
35) Chlorobenzene	17.30	112	5411175	28.71	ug/L	100
36) 1,1,1,2-Tetrachloroethane	17.43	131	2199322	28.09	ug/L	99
37) Ethylbenzene	17.49	91	10037171	29.87	ug/L	100
38) Xylene (para & meta)	17.69	106	7617139	59.92	ug/L	95
39) Xylene (Ortho)	18.39	106	3446421	29.54	ug/L	97
40) Styrene	18.41	104	5197567	29.03	ug/L	99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0614.d
Acq On : 18 Dec 95 6:36 pm
Sample : 30 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:03 1995

Vial: 5
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	984215	25.92	ug/L		98
42)	Isopropylbenzene	19.04	105	9827464	30.26	ug/L	m	0
44)	Bromobenzene	19.61	156	2296884	27.30	ug/L		100
45)	1,1,2,2-Tetrachloroethane	19.57	83	1187143	27.86	ug/L		100
46)	1,2,3-Trichloropropane	19.65	75	1054548	24.10	ug/L	m	1
47)	n-Propylbenzene	19.78	91	13486064	30.42	ug/L		100
48)	2-Chlorotoluene	19.95	91	7806544	30.12	ug/L	m	100
49)	4-Chlorotoluene	20.15	91	8376804	29.01	ug/L		99
50)	1,3,5-Trimethylbenzene	20.09	105	8309199	29.50	ug/L		99
51)	tert-Butylbenzene	20.69	119	8540352	26.99	ug/L	m	99
52)	1,2,4-Trimethylbenzene	20.77	105	8085353	28.72	ug/L		100
53)	sec-Butylbenzene	21.09	105	13095526	30.48	ug/L		100
54)	1,3-Dichlorobenzene	21.31	146	4501828	27.04	ug/L		99
55)	4-Isopropyltoluene	21.35	119	10368606	30.03	ug/L		100
56)	1,4-Dichlorobenzene	21.47	146	4349999	26.65	ug/L		99
58)	1,2-Dichlorobenzene	22.16	146	3428548	26.04	ug/L		98
59)	n-Butylbenzene	22.10	91	10709424	30.55	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.58	75	222530	24.72	ug/L		100
61)	1,2,4-Trichlorobenzene	25.12	180	2838531	26.61	ug/L		99
62)	Hexachlorobutadiene	25.45	225	2630469	28.39	ug/L	m	81
63)	Naphthalene	25.59	128	2755342	26.74	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.07	180	2097630	26.99	ug/L		100
65)	Methyl-tert butyl ether	8.27	73	2169381	26.60	ug/L		100
66)	tert-Butyl Alcohol	8.06	59	69142	57.57	ug/L	m	100

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

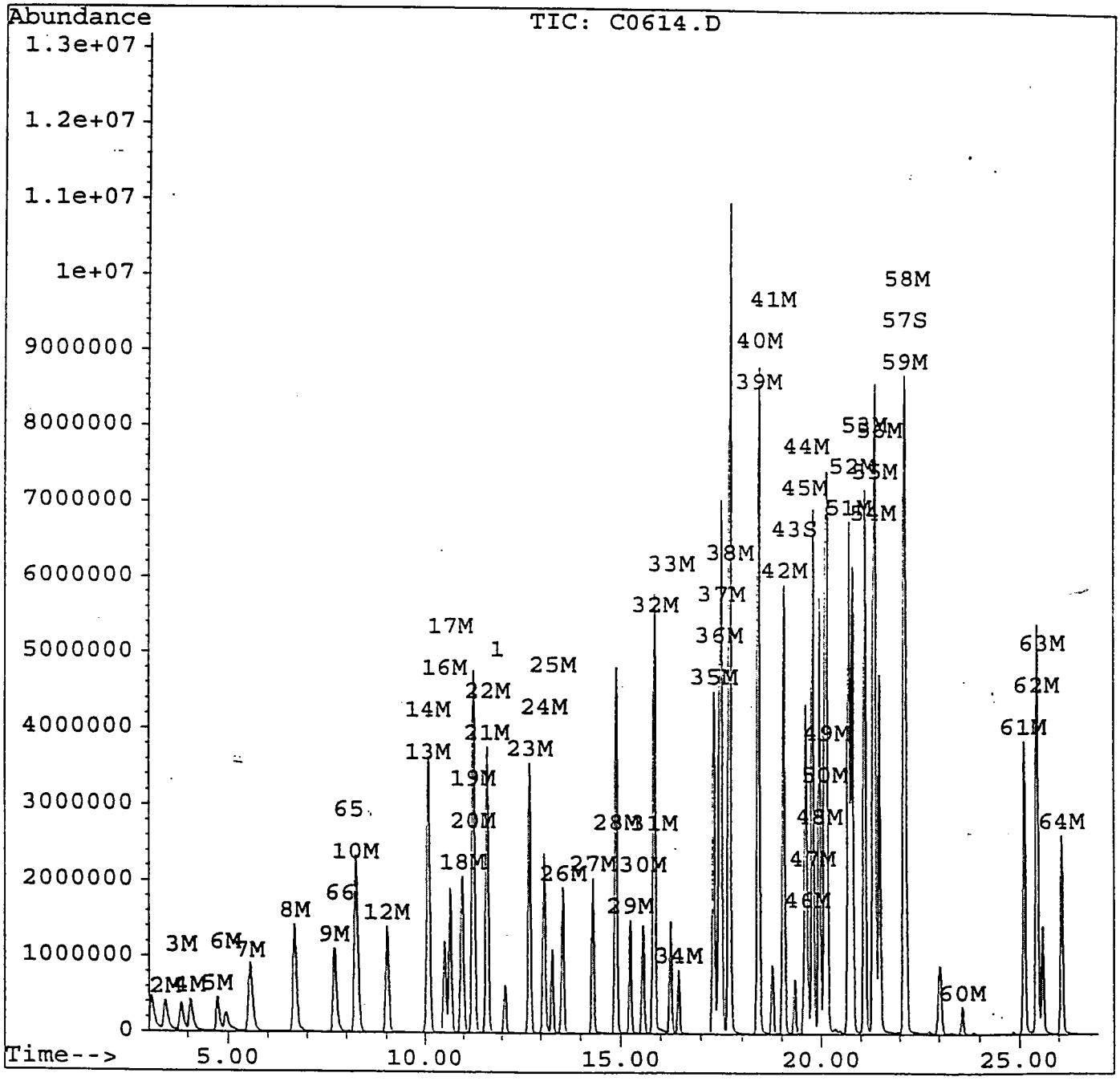
Quantitation Report

058

Data File : d:\hpchem\1\data\c0614.d
Acq On : 18 Dec 95 6:36 pm
Sample : 30 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:03 1995

Vial: 5
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0615.d
Acq On : 18 Dec 95 7:10 pm
Sample : 40 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:31 1995

Vial: 6
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.08	96	1328775	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.33	95	620145	4.32	ug/L		86.46%
57) 1,2-Dichlorobenzene-d4	22.13	152	356451	3.96	ug/L		79.25%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.45	85	2193367	30.50	ug/L		99
3) Chloromethane	3.85	50	2072353	37.92	ug/L		99
4) Vinyl chloride	4.07	62	2286904	37.62	ug/L		99
5) Bromomethane	4.73	94	1244374	29.47	ug/L	m	84
6) Chloroethane	4.93	64	1148775	34.01	ug/L		99
7) Trichlorofluoromethane	5.54	101	3961033	37.72	ug/L		99
8) 1,1-Dichloroethene	6.67	96	2527689	40.18	ug/L		98
9) Methylene chloride	7.69	84	2133222	33.92	ug/L		98
10) trans-1,2-Dichloroethene	8.23	96	2898883	40.34	ug/L		98
12) 1,1-Dichloroethane	9.02	63	5317393	39.39	ug/L		99
13) 2,2-Dichloropropane	10.07	77	4286098	38.00	ug/L		99
14) cis-1,2-Dichloroethene	10.09	96	2752262	38.97	ug/L		98
16) Bromochloromethane	10.52	128	1075806	35.14	ug/L		96
17) Chloroform	10.66	83	4712224	37.79	ug/L		100
18) 1,1,1-Trichloroethane	10.97	97	4809583	39.84	ug/L		99
19) Carbon tetrachloride	11.27	117	4454103	39.03	ug/L		99
20) 1,1-Dichloropropene	11.26	75	4466516	39.67	ug/L		99
21) Benzene	11.61	78	8993183	38.90	ug/L		100
22) 1,2-Dichloroethane	11.64	62	1749723	33.79	ug/L		96
23) Trichloroethene	12.71	95	3767691	39.30	ug/L		99
24) 1,2-Dichloropropane	13.08	63	3024057	37.68	ug/L		99
25) Dibromomethane	13.29	93	1227344	34.87	ug/L		95
26) Bromodichloromethane	13.56	83	3743643	36.03	ug/L		98
27) cis-1,3-Dichloropropene	14.30	75	3392954	36.23	ug/L		99
28) Toluene	14.88	92	6516098	39.96	ug/L		100
29) trans-1,3-Dichloropropene	15.24	75	2247586	34.77	ug/L		99
30) 1,1,2-Trichloroethane	15.56	83	1201692	34.63	ug/L		98
31) Tetrachloroethene	15.83	166	4420107	38.21	ug/L		98
32) 1,3-Dichloropropane	15.85	76	2266167	34.49	ug/L		100
33) Dibromochloromethane	16.25	129	2386589	34.55	ug/L		99
34) 1,2-Dibromoethane	16.45	107	1712137	33.85	ug/L		99
35) Chlorobenzene	17.30	112	7040420	37.46	ug/L	m	0
36) 1,1,1,2-Tetrachloroethane	17.44	131	2894177	37.06	ug/L		99
37) Ethylbenzene	17.49	91	13196176	39.38	ug/L		99
38) Xylene (para & meta)	17.69	106	9951484	78.50	ug/L		96
39) Xylene (Ortho)	18.39	106	4510500	38.76	ug/L		96
40) Styrene	18.41	104	6772604	37.92	ug/L		100

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

Quantitation Report

Data File : d:\hpchem\1\data\c0615.d
Acq On : 18 Dec 95 7:10 pm
Sample : 40 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:31 1995

Vial: 6
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	1291562	34.11	ug/L		99
42)	Isopropylbenzene	19.04	105	12938843	39.95	ug/L		97
44)	Bromobenzene	19.61	156	2999030	35.74	ug/L		100
45)	1,1,2,2-Tetrachloroethane	19.57	83	1533825	36.09	ug/L		99
46)	1,2,3-Trichloropropane	19.65	75	1448800	33.20	ug/L	m	1
47)	n-Propylbenzene	19.79	91	17739162	40.12	ug/L		99
48)	2-Chlorotoluene	19.96	91	10134696	39.21	ug/L	m	100
49)	4-Chlorotoluene	20.15	91	10939409	37.99	ug/L		100
50)	1,3,5-Trimethylbenzene	20.10	105	10924965	38.89	ug/L		99
51)	tert-Butylbenzene	20.69	119	11106671	35.20	ug/L	m	100
52)	1,2,4-Trimethylbenzene	20.79	105	10547838	37.57	ug/L		99
53)	sec-Butylbenzene	21.09	105	17163941	40.06	ug/L		99
54)	1,3-Dichlorobenzene	21.31	146	5867148	35.33	ug/L		99
55)	4-Isopropyltoluene	21.35	119	13520952	39.26	ug/L		99
56)	1,4-Dichlorobenzene	21.48	146	5658632	34.77	ug/L		100
58)	1,2-Dichlorobenzene	22.16	146	4429755	33.73	ug/L		97
59)	n-Butylbenzene	22.11	91	14000701	40.05	ug/L		100
60)	1,2-Dibromo-3-chloropropan	23.58	75	283978	31.64	ug/L		98
61)	1,2,4-Trichlorobenzene	25.13	180	3682422	34.62	ug/L		99
62)	Hexachlorobutadiene	25.45	225	3421695	37.03	ug/L	m	83
63)	Naphthalene	25.59	128	3527603	34.33	ug/L		100
64)	1,2,3-Trichlorobenzene	26.07	180	2654417	34.24	ug/L		100
65)	Methyl-tert butyl ether	8.28	73	2797003	34.39	ug/L		98
66)	tert-Butyl Alcohol	8.08	59	84092	70.21	ug/L	m	100

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

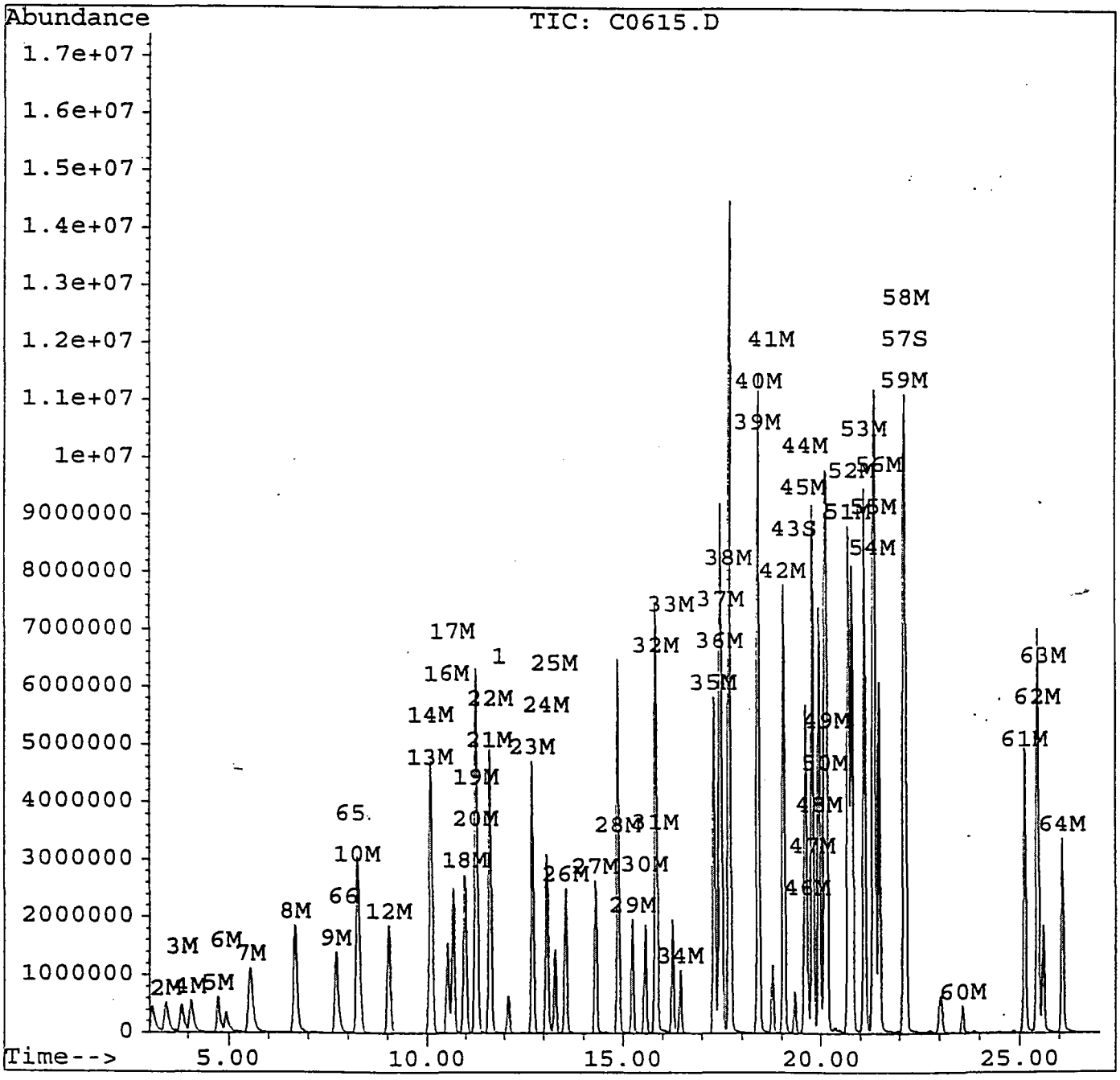
Quantitation Report

061

Data File : d:\hpchem\1\data\c0615.d
Acq On : 18 Dec 95 7:10 pm
Sample : 40 PPB STANDARD
Misc : 25 ML 524.2 INITIAL CALIBRATION
Quant Time: Dec 19 13:31 1995

Vial: 6
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 19 13:49:27 1995
Response via : Multiple Level Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

062

Lab Name : EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: C0695.D BFB Injection Date: 12/26/95

Instrument ID: 5972-INSTRUMENT 1 BFB Injection Time: 1653

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge: (Y/N) _____

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.1
75	30.0 - 66.0% of mass 95	42.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	64.9
175	4.0 - 9.0% of mass 174	4.7 (7.2)1
176	93.0 - 101.0% of mass 174	63.9 (98.5)1
177	5.0 - 9.0% of mass 176	4.0 (6.3)2

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

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

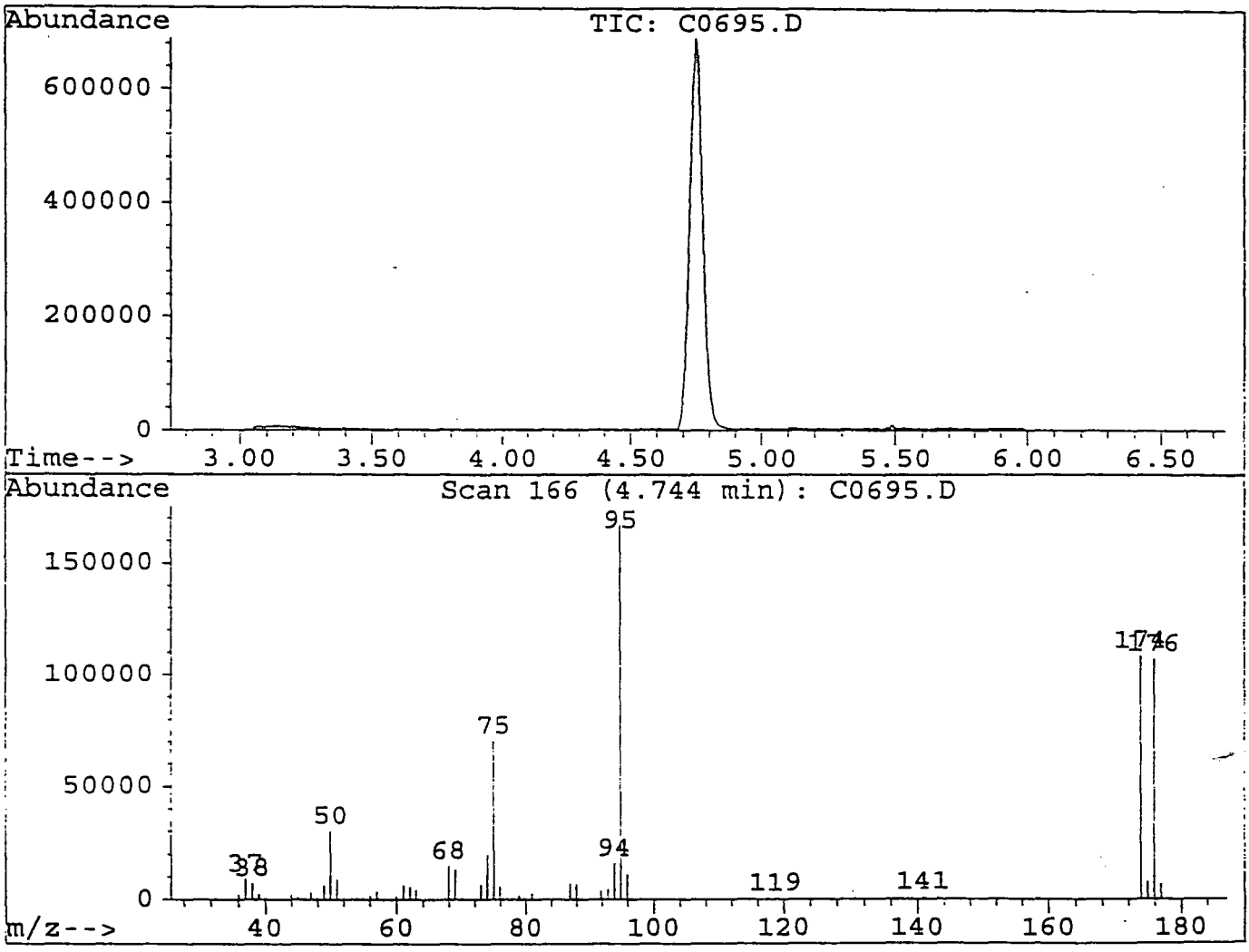
	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	10 STND	C0696.D	12/26/95	1706
02	VBLK01	M. BLANK	C0697.D	12/26/95	1741
03	9557856V	9557856V	C0698.D	12/26/95	1815
04	9557857V	9557857V	C0699.D	12/26/95	1850
05	9558188V	9558188V	C0700.D	12/26/95	1924
06	9558189V	9558189V	C0701.D	12/26/95	1958
07	9558190V	9558190V	C0702.D	12/26/95	2032
08	9558191V	9558191V	C0703.D	12/26/95	2107
09	9558192V	9558192V	C0704.D	12/26/95	2141
10	9558196V	9558196V	C0705.D	12/26/95	2215
11	9558197V	9558197V	C0706.D	12/26/95	2250
12	9558195V	9558195V	C0707.D	12/26/95	2324
13	9557856MS	57856MS	C0708.D	12/26/95	2358
14	9557856MSD	57856MSD	C0709.D	12/27/95	0032
15	10 QCS	10 QCS	C0710.D	12/27/95	0107
16	1 STND	1 STND	C0711.D	12/27/95	0141
17					
18					
19					
20					
21					
22					

CLPBFB

Data File : D:\HPCHEM\1\DATA\C0695.D
Acq On : 26 Dec 95 4:53 pm
Sample : BFB TUNE
Misc : 25 NG INJECTION

Vial: 1
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics



Peak Apex is scan: 166

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	30208	PASS
75	95	30	80	42.1	70408	PASS
95	95	100	100	100.0	167168	PASS
96	95	5	9	6.8	11321	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	64.9	108464	PASS
175	174	5	9	7.2	7852	PASS
176	174	95	101	98.5	106816	PASS
177	176	5	9	6.3	6723	PASS

Scan 166 (4.744 min): C0695.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	2075	51.05	8964	72.05	879	87.00	6983
37.10	9106	55.05	634	73.05	6510	88.05	6954
38.10	7359	56.10	1741	74.05	20264	91.05	593
39.10	2709	57.10	3765	75.05	70408	91.95	3884
40.00	840	60.00	1615	76.05	6088	93.05	4447
44.00	2129	61.10	6353	77.00	1019	94.05	15855
45.00	1351	62.10	5874	78.00	686	95.05	167168
47.05	3168	63.00	4585	79.00	1970	96.05	11321
48.05	964	68.05	14864	79.90	859	118.80	530
49.05	6323	69.05	13479	81.00	2637	140.90	1017
50.05	30208	70.05	981	82.00	642	143.00	873

Scan 166 (4.744 min): C0695.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.95	108464						
174.95	7852						
175.95	106816						
176.95	6723						

7A

VOLATILE CONTINUING CALIBRATION CHECK

065

Lab Name: EMSL ANALYTICAL Contract:

Project No. Site: Location: Group:

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/26/95 Time: 1706

Lab File ID: C0696.D Init. Calib. Date(s): 12/18/95

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

GC Column: DB-624 X 7 ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.205	0.176		14.1	30.0
Chloromethane	0.202	0.173		14.4	30.0
Vinyl chloride	0.214	0.205		4.2	30.0
Bromomethane	0.121	0.132		-9.1	30.0
Chloroethane	0.130	0.137		-5.4	30.0
Trichlorofluoromethane	0.376	0.368		2.1	30.0
1,1-Dichloroethene	0.234	0.234		0.0	30.0
Methylene chloride	0.220	0.238		-8.2	30.0
trans-1,2-Dichloroethene	0.267	0.270		-1.1	30.0
1,1-Dichloroethane	0.497	0.500		-0.6	30.0
2,2-Dichloropropane	0.407	0.412		-1.2	30.0
cis-1,2-Dichloroethene	0.254	0.258		-1.6	30.0
Bromochloromethane	0.098	0.101		-3.1	30.0
Chloroform	0.439	0.439		0.0	30.0
1,1,1-Trichloroethane	0.447	0.444		0.7	30.0
Carbon tetrachloride	0.404	0.411		-1.7	30.0
1,1-Dichloropropene	0.416	0.422		-1.4	30.0
Benzene	0.857	0.869		-1.4	30.0
1,2-Dichloroethane	0.163	0.167		-2.5	30.0
Trichloroethene	0.348	0.355		-2.0	30.0
1,2-Dichloropropane	0.285	0.289		-1.4	30.0
Dibromomethane	0.113	0.118		-4.4	30.0
Bromodichloromethane	0.341	0.351		-2.9	30.0
cis-1,3-Dichloropropene	0.313	0.323		-3.2	30.0
Toluene	0.624	0.619		0.8	30.0
trans-1,3-Dichloropropene	0.206	0.213		-3.4	30.0
1,1,2-Trichloroethane	0.110	0.115		-4.5	30.0
Tetrachloroethene	0.410	0.419		-2.2	30.0
1,3-Dichloropropane	0.213	0.218		-2.3	30.0
Dibromochloromethane	0.215	0.226		-5.1	30.0
1,2-Dibromoethane	0.000	0.000			30.0
Chlorobenzene	0.660	0.682		-3.3	30.0
1,1,1,2-Tetrachloroethane	0.265	0.274		-3.4	30.0
Ethylbenzene	1.241	1.268		-2.2	30.0
Xylene (para & meta)	0.473	0.484		-2.3	30.0
Xylene (Ortho)	0.424	0.436		-2.8	30.0

VOLATILE CONTINUING CALIBRATION CHECK

066

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/26/95 Time: 1706

Lab File ID: C0696.D Init. Calib. Date(s): 12/18/95 _____

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

GC Column: DB-624 X 7 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Styrene	0.626	0.654		-4.5	30.0
Bromoform	0.119	0.120		-0.8	30.0
Isopropylbenzene	1.210	1.237		-2.2	30.0
Bromobenzene	0.276	0.286		-3.6	30.0
1,1,2,2-Tetrachloroethane	0.141	0.147		-4.3	30.0
1,2,3-Trichloropropane	0.135	0.133		1.5	30.0
n-Propylbenzene	1.672	1.715		-2.6	30.0
2-Chlorotoluene	0.967	0.981		-1.4	30.0
4-Chlorotoluene	1.035	1.077		-4.1	30.0
1,3,5-Trimethylbenzene	1.023	1.058		-3.4	30.0
tert-Butylbenzene	1.078	1.204		-11.7	30.0
1,2,4-Trimethylbenzene	0.993	1.033		-4.0	30.0
sec-Butylbenzene	1.621	1.682		-3.8	30.0
1,3-Dichlorobenzene	0.553	0.578		-4.5	30.0
4-Isopropyltoluene	1.277	1.334		-4.5	30.0
1,4-Dichlorobenzene	0.536	0.558		-4.1	30.0
1,2-Dichlorobenzene	0.421	0.442		-5.0	30.0
n-Butylbenzene	1.320	1.378		-4.4	30.0
1,2-Dibromo-3-chloropropane	0.027	0.027		0.0	30.0
1,2,4-Trichlorobenzene	0.341	0.351		-2.9	30.0
Hexachlorobutadiene	0.316	0.324		-2.5	30.0
Naphthalene	0.338	0.311		8.0	30.0
1,2,3-Trichlorobenzene	0.248	0.258		-4.0	30.0
4-Bromofluorobenzene	0.472	0.486		-3.0	30.0
1,2-Dichlorobenzene-d4	0.278	0.290		-4.3	30.0

Evaluate Continuing Calibration Report

067

Data File : D:\HPCHEM\1\DATA\C0696.D
Acq On : 26 Dec 95 5:06 pm
Sample : 10 PPB CHK STANDARD
Misc :

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Fluorobenzene	1.000	1.000	0.0	98	0.00
2	M	Dichlorodifluoromethane	0.205	0.176	14.3	79	0.00
3	M	Chloromethane	0.202	0.173	14.0	80	0.00
4	M	Vinyl chloride	0.214	0.205	4.6	87	0.00
5	M	Bromomethane	0.121	0.132	-9.2	108	0.00
6	M	Chloroethane	0.130	0.137	-5.5	91	0.00
7	M	Trichlorofluoromethane	0.376	0.368	2.3	91	0.00
8	M	1,1-Dichloroethene	0.234	0.234	0.1	94	0.00
9	M	Methylene chloride	0.220	0.238	-8.3	92	0.00
10	M	trans-1,2-Dichloroethene	0.267	0.270	-1.1	96	0.00
11		Hexane	0.000	0.000#	0.0	0#	-8.89#
12	M	1,1-Dichloroethane	0.497	0.500	-0.5	95	0.00
13	M	2,2-Dichloropropane	0.407	0.412	-1.2	95	0.00
14	M	cis-1,2-Dichloroethene	0.254	0.258	-1.6	96	0.00
15		2-Butanone	0.000	0.000#	0.0	0#	-11.21#
16	M	Bromochloromethane	0.098	0.101	-2.7	100	0.00
17	M	Chloroform	0.439	0.439	-0.1	96	0.00
18	M	1,1,1-Trichloroethane	0.447	0.444	0.7	94	0.00
19	M	Carbon tetrachloride	0.404	0.411	-1.7	95	0.00
20	M	1,1-Dichloropropene	0.416	0.422	-1.7	95	0.00
21	M	Benzene	0.857	0.869	-1.5	98	0.00
22	M	1,2-Dichloroethane	0.163	0.167	-3.0	98	0.00
23	M	Trichloroethene	0.348	0.355	-1.9	97	0.00
24	M	1,2-Dichloropropane	0.285	0.289	-1.5	96	0.00
25	M	Dibromomethane	0.113	0.118	-4.5	100	0.00
26	M	Bromodichloromethane	0.341	0.351	-3.1	98	0.00
27	M	cis-1,3-Dichloropropene	0.313	0.323	-3.2	98	0.00
28	M	Toluene	0.624	0.619	0.8	97	0.00
29	M	trans-1,3-Dichloropropene	0.206	0.213	-3.3	98	0.00
30	M	1,1,2-Trichloroethane	0.110	0.115	-4.7	100	0.00
31	M	Tetrachloroethene	0.410	0.419	-2.4	98	0.00
32	M	1,3-Dichloropropane	0.213	0.218	-2.4	99	0.00
33	M	Dibromochloromethane	0.215	0.226	-4.9	101	0.00
34	M	1,2-Dibromoethane	0.156	0.162	-3.8	100	0.00
35	M	Chlorobenzene	0.660	0.682	-3.5	98	0.00
36	M	1,1,1,2-Tetrachloroethane	0.265	0.274	-3.4	99	0.00
37	M	Ethylbenzene	1.241	1.268	-2.2	96	0.00
38	M	Xylene (para & meta)	0.473	0.484	-2.4	95	0.00
39	M	Xylene (Ortho)	0.424	0.436	-2.8	97	0.00
40	M	Styrene	0.626	0.654	-4.4	97	0.00
41	M	Bromoform	0.119	0.120	-0.5	102	0.00
42	M	Isopropylbenzene	1.210	1.237	-2.2	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\C0696.D
Acq On : 26 Dec 95 5:06 pm
Sample : 10 PPB CHK STANDARD
Misc :

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
3	S	4-Bromofluorobenzene	0.472	0.486	-3.0	101	0.00
4	M	Bromobenzene	0.276	0.286	-3.6	98	0.00
45	M	1,1,2,2-Tetrachloroethane	0.141	0.147	-3.8	99	0.00
46	M	1,2,3-Trichloropropane	0.135	0.133	1.4	99	0.00
7	M	n-Propylbenzene	1.672	1.715	-2.6	96	0.00
8	M	2-Chlorotoluene	0.967	0.981	-1.5	95	0.00
49	M	4-Chlorotoluene	1.035	1.077	-4.0	97	0.00
0	M	1,3,5-Trimethylbenzene	1.023	1.058	-3.4	97	0.00
1	M	tert-Butylbenzene	1.078	1.204	-11.7	108	0.00
52	M	1,2,4-Trimethylbenzene	0.993	1.033	-3.9	97	0.00
3	M	sec-Butylbenzene	1.621	1.682	-3.8	97	0.00
4	M	1,3-Dichlorobenzene	0.553	0.578	-4.6	98	0.00
55	M	4-Isopropyltoluene	1.277	1.334	-4.4	96	0.00
56	M	1,4-Dichlorobenzene	0.536	0.558	-4.2	98	0.00
7	S	1,2-Dichlorobenzene-d4	0.278	0.290	-4.4	101	0.00
8	M	1,2-Dichlorobenzene	0.421	0.442	-5.2	100	0.00
59	M	n-Butylbenzene	1.320	1.378	-4.4	96	0.00
0	M	1,2-Dibromo-3-chloropropane	0.027	0.027	-2.4	102	0.00
1	M	1,2,4-Trichlorobenzene	0.341	0.351	-2.9	98	0.00
62	M	Hexachlorobutadiene	0.316	0.324	-2.4	96	0.00
3	M	Naphthalene	0.338	0.311	8.1	90	0.00
4	M	1,2,3-Trichlorobenzene	0.248	0.258	-3.9	98	0.00
65		Methyl-tert butyl ether	0.266	0.266	-0.0	98	0.00
66		tert-Butyl Alcohol	0.004	0.004	-6.8	108	0.00

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

Quantitation Report

069

Data File : d:\hpchem\1\data\c0696.d
Acq On : 26 Dec 95 5:06 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 26 17:39 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.14	96	1403167	5.00	ug/L	0.06
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.38	95	681508	5.15	ug/L	102.97%
57) 1,2-Dichlorobenzene-d4	22.17	152	406430	5.22	ug/L	104.38%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.48	85	493270	8.57	ug/L	100
3) Chloromethane	3.88	50	486572	8.60	ug/L	99
4) Vinyl chloride	4.11	62	574012	9.54	ug/L	99
5) Bromomethane	4.80	94	371292	10.92	ug/L	98
6) Chloroethane	5.04	64	385254	10.55	ug/L	99
7) Trichlorofluoromethane	5.63	101	1032052	9.77	ug/L	98
8) 1,1-Dichloroethene	6.75	96	657202	9.99	ug/L	98
9) Methylene chloride	7.76	84	667534	10.83	ug/L	98
10) trans-1,2-Dichloroethene	8.28	96	757969	10.11	ug/L	99
12) 1,1-Dichloroethane	9.09	63	1402366	10.05	ug/L	100
13) 2,2-Dichloropropane	10.13	77	1155122	10.12	ug/L	99
14) cis-1,2-Dichloroethene	10.14	96	723498	10.16	ug/L	98
16) Bromochloromethane	10.57	128	283928	10.27	ug/L	97
17) Chloroform	10.71	83	1231987	10.01	ug/L	99
18) 1,1,1-Trichloroethane	11.02	97	1244672	9.93	ug/L	100
19) Carbon tetrachloride	11.32	117	1152683	10.17	ug/L	99
20) 1,1-Dichloropropene	11.31	75	1185490	10.17	ug/L	99
21) Benzene	11.66	78	2439835	10.15	ug/L	99
22) 1,2-Dichloroethane	11.69	62	469768	10.30	ug/L	97
23) Trichloroethene	12.77	95	996628	10.19	ug/L	99
24) 1,2-Dichloropropane	13.14	63	811439	10.15	ug/L	99
25) Dibromomethane	13.34	93	330426	10.45	ug/L	94
26) Bromodichloromethane	13.60	83	985527	10.31	ug/L	98
27) cis-1,3-Dichloropropene	14.35	75	905453	10.32	ug/L	99
28) Toluene	14.93	92	1737580	9.92	ug/L	100
29) trans-1,3-Dichloropropene	15.29	75	598212	10.33	ug/L	100
30) 1,1,2-Trichloroethane	15.61	83	322323	10.47	ug/L	97
31) Tetrachloroethene	15.88	166	1177161	10.24	ug/L	98
32) 1,3-Dichloropropane	15.90	76	613056	10.24	ug/L	99
33) Dibromochloromethane	16.30	129	632972	10.49	ug/L	99
34) 1,2-Dibromoethane	16.50	107	453900	10.38	ug/L	98
35) Chlorobenzene	17.35	112	1915273	10.35	ug/L	98
36) 1,1,1,2-Tetrachloroethane	17.49	131	767856	10.34	ug/L	98
37) Ethylbenzene	17.53	91	3559197	10.22	ug/L	99
38) Xylene (para & meta)	17.74	106	2718543	20.47	ug/L	95
39) Xylene (Ortho)	18.45	106	1224575	10.28	ug/L	96
40) Styrene	18.47	104	1834733	10.44	ug/L	98

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

Quantitation Report

Data File : d:\hpchem\1\data\c0696.d
Acq On : 26 Dec 95 5:06 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 26 17:39 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.81	173	336954	10.05	ug/L		97
42)	Isopropylbenzene	19.10	105	3470125	10.22	ug/L	m	0
44)	Bromobenzene	19.66	156	803870	10.36	ug/L		100
45)	1,1,2,2-Tetrachloroethane	19.61	83	411922	10.38	ug/L		100
46)	1,2,3-Trichloropropane	19.71	75	373657	9.86	ug/L	m	1
47)	n-Propylbenzene	19.83	91	4813508	10.26	ug/L	m	81
48)	2-Chlorotoluene	20.00	91	2752454	10.15	ug/L	m	99
49)	4-Chlorotoluene	20.19	91	3021831	10.40	ug/L		100
50)	1,3,5-Trimethylbenzene	20.15	105	2968321	10.34	ug/L		99
51)	tert-Butylbenzene	20.74	119	3378863	11.17	ug/L		99
52)	1,2,4-Trimethylbenzene	20.83	105	2897883	10.39	ug/L		100
53)	sec-Butylbenzene	21.14	105	4719391	10.38	ug/L		98
54)	1,3-Dichlorobenzene	21.36	146	1623019	10.46	ug/L		99
55)	4-Isopropyltoluene	21.40	119	3743600	10.44	ug/L		99
56)	1,4-Dichlorobenzene	21.52	146	1566399	10.42	ug/L		99
58)	1,2-Dichlorobenzene	22.20	146	1241775	10.52	ug/L	m	0
59)	n-Butylbenzene	22.15	91	3866192	10.44	ug/L		98
60)	1,2-Dibromo-3-chloropropan	23.62	75	76499	10.24	ug/L		99
61)	1,2,4-Trichlorobenzene	25.17	180	984670	10.29	ug/L		99
62)	Hexachlorobutadiene	25.49	225	909531	10.24	ug/L		100
63)	Naphthalene	25.63	128	872343	9.19	ug/L		100
64)	1,2,3-Trichlorobenzene	26.13	180	722817	10.39	ug/L		99
65)	Methyl-tert butyl ether	8.32	73	746983	10.00	ug/L		99
66)	tert-Butyl Alcohol	8.09	59	24090	21.36	ug/L	m	100

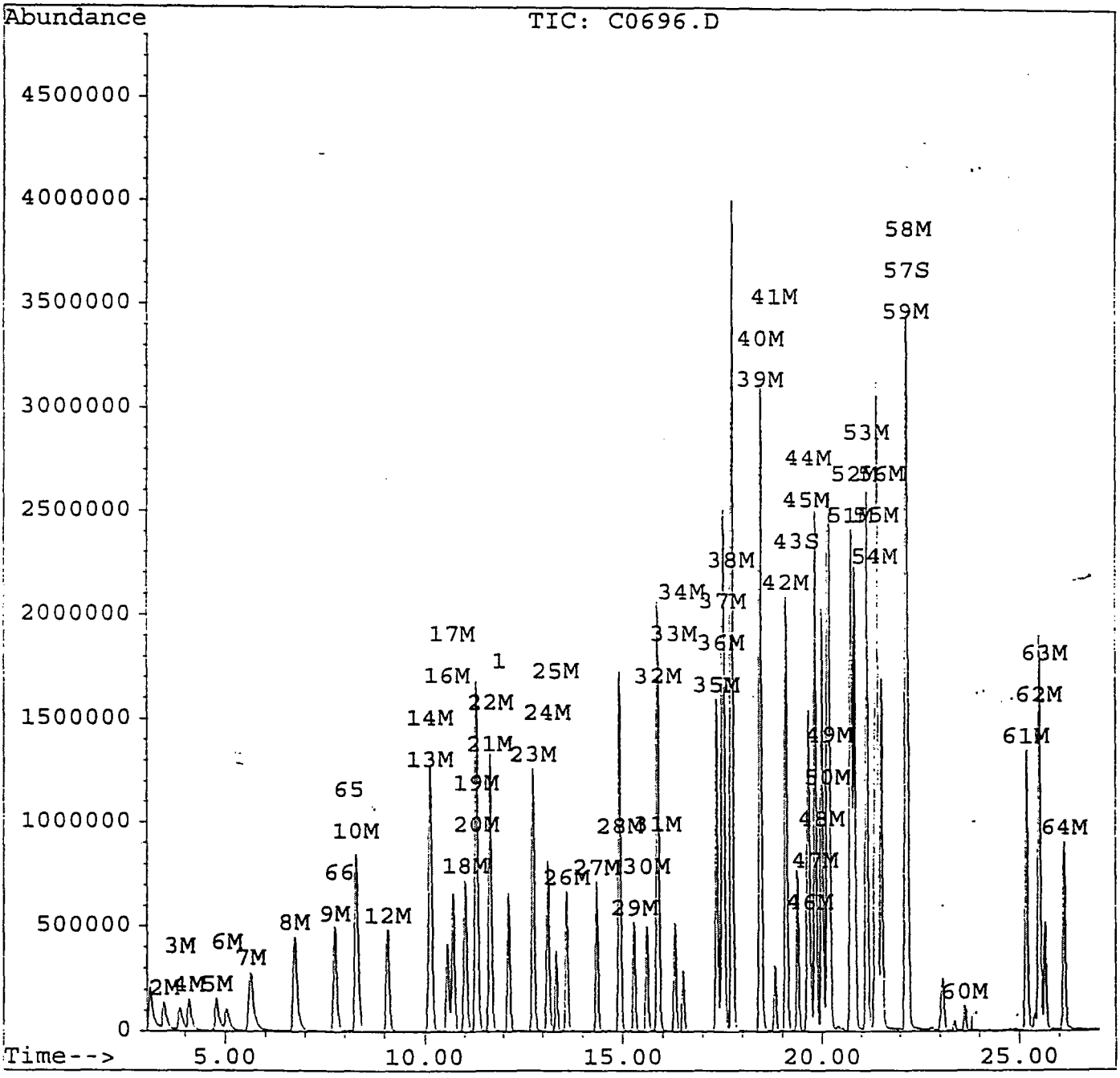
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0696.d
Acq On : 26 Dec 95 5:06 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 26 17:39 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



Quantitation Report

072

Data File : d:\hpchem\1\data\c0710.d
Acq On : 27 Dec 95 1:07 am
Sample : 10 QCS
Misc : 25 ML
Quant Time: Dec 27 14:32 1995

Vial: 16
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.13	96	1346351	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.37	95	630557	4.96	ug/L	99.29%
57) 1,2-Dichlorobenzene-d4	22.17	152	376006	5.03	ug/L	100.64%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.47	85	697975	12.63	ug/L	99
3) Chloromethane	3.89	50	474412	8.74	ug/L	100
4) Vinyl chloride	4.11	62	613036	10.62	ug/L	99
5) Bromomethane	4.79	94	409447	12.55	ug/L	97
6) Chloroethane	5.04	64	371470	10.60	ug/L	100
7) Trichlorofluoromethane	5.64	101	1142891	11.27	ug/L	100
8) 1,1-Dichloroethene	6.75	96	733451	11.62	ug/L	94
9) Methylene chloride	7.75	84	658917	11.14	ug/L	97
10) trans-1,2-Dichloroethene	8.29	96	792597	11.02	ug/L	98
12) 1,1-Dichloroethane	9.08	63	1445364	10.80	ug/L	99
13) 2,2-Dichloropropane	10.13	77	1000156	9.13	ug/L	99
14) cis-1,2-Dichloroethene	10.15	96	742214	10.87	ug/L	97
16) Bromochloromethane	10.57	128	283743	10.70	ug/L	98
17) Chloroform	10.71	83	1242003	10.51	ug/L	100
18) 1,1,1-Trichloroethane	11.02	97	1267712	10.54	ug/L	99
19) Carbon tetrachloride	11.32	117	1188851	10.93	ug/L	99
20) 1,1-Dichloropropene	11.31	75	1273460	11.38	ug/L	98
21) Benzene	11.67	78	2324175	10.08	ug/L	98
22) 1,2-Dichloroethane	11.69	62	470311	10.75	ug/L	100
23) Trichloroethene	12.76	95	1016714	10.83	ug/L	99
24) 1,2-Dichloropropane	13.14	63	804755	10.50	ug/L	99
25) Dibromomethane	13.34	93	315172	10.39	ug/L	98
26) Bromodichloromethane	13.61	83	978994	10.67	ug/L	98
27) cis-1,3-Dichloropropene	14.35	75	927183	11.01	ug/L	100
28) Toluene	14.93	92	1638728	9.75	ug/L	99
29) trans-1,3-Dichloropropene	15.29	75	587053	10.56	ug/L	100
30) 1,1,2-Trichloroethane	15.60	83	317654	10.75	ug/L	97
31) Tetrachloroethene	15.88	166	1181411	10.71	ug/L	99
32) 1,3-Dichloropropane	15.90	76	606123	10.55	ug/L	99
33) Dibromochloromethane	16.30	129	609925	10.53	ug/L	95
34) 1,2-Dibromoethane	16.51	107	439984	10.49	ug/L	99
35) Chlorobenzene	17.35	112	1845640	10.39	ug/L	98
36) 1,1,1,2-Tetrachloroethane	17.49	131	764607	10.73	ug/L	96
37) Ethylbenzene	17.53	91	3377097	10.11	ug/L	99
38) Xylene (para & meta)	17.73	106	2607690	20.47	ug/L	98
39) Xylene (Ortho)	18.44	106	1183670	10.36	ug/L	99
40) Styrene	18.47	104	1756129	10.41	ug/L	100

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

Quantitation Report

073

Data File : d:\hpchem\1\data\c0710.d
Acq On : 27 Dec 95 1:07 am
Sample : 10 QCS
Misc : 25 ML
Quant Time: Dec 27 14:32 1995

Vial: 16
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.81	173	321494	9.99	ug/L		98
42)	Isopropylbenzene	19.09	105	3659960	11.24	ug/L	m	0
44)	Bromobenzene	19.66	156	757636	10.18	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.62	83	399660	10.50	ug/L		100
46)	1,2,3-Trichloropropane	19.70	75	384258	10.57	ug/L	#	2
47)	n-Propylbenzene	19.84	91	4658830	10.35	ug/L		94
48)	2-Chlorotoluene	20.00	91	2514798	9.66	ug/L		93
49)	4-Chlorotoluene	20.20	91	2843147	10.20	ug/L		98
50)	1,3,5-Trimethylbenzene	20.15	105	2780359	10.10	ug/L		100
51)	tert-Butylbenzene	20.74	119	3290800	11.34	ug/L		98
52)	1,2,4-Trimethylbenzene	20.83	105	2655809	9.93	ug/L		100
53)	sec-Butylbenzene	21.15	105	4617600	10.58	ug/L		99
54)	1,3-Dichlorobenzene	21.36	146	1566352	10.52	ug/L		99
55)	4-Isopropyltoluene	21.40	119	3609010	10.49	ug/L		99
56)	1,4-Dichlorobenzene	21.52	146	1516321	10.52	ug/L		98
58)	1,2-Dichlorobenzene	22.21	146	1196636	10.56	ug/L		97
59)	n-Butylbenzene	22.16	91	3604256	10.14	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.63	75	72502	10.12	ug/L		99
61)	1,2,4-Trichlorobenzene	25.17	180	917640	9.99	ug/L		99
62)	Hexachlorobutadiene	25.50	225	893852	10.49	ug/L		100
63)	Naphthalene	25.64	128	906990	9.96	ug/L		100
64)	1,2,3-Trichlorobenzene	26.13	180	678490	10.16	ug/L		98

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

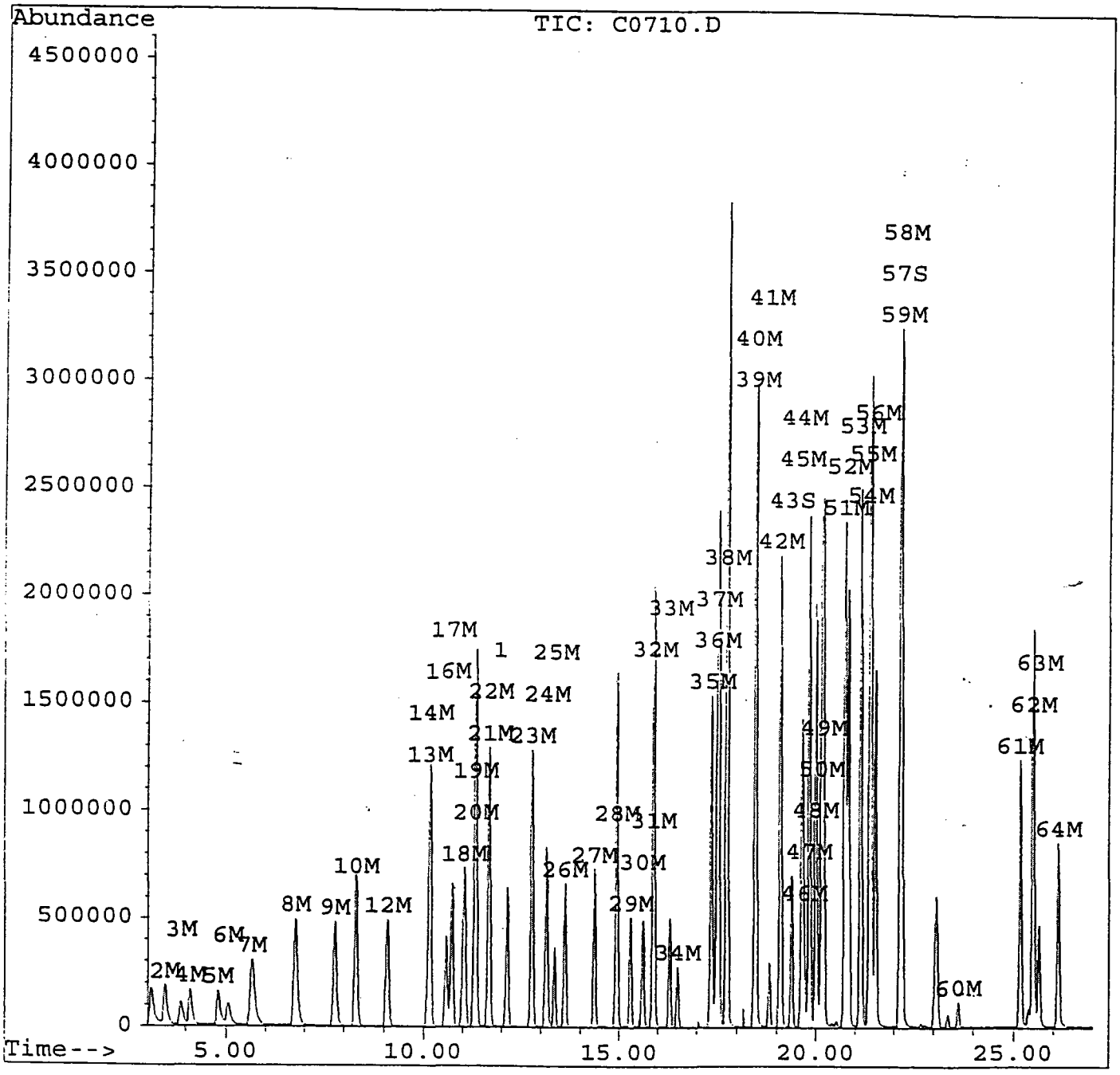
Quantitation Report

074

Data File : d:\hpchem\1\data\c0710.d
Acq On : 27 Dec 95 1:07 am
Sample : 10 QCS
Misc : 25 ML
Quant Time: Dec 27 14:32 1995

Vial: 16
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



Quantitation Report

075

Data File : d:\hpchem\1\data\c0711.d
Acq On : 27 Dec 95 1:41 am
Sample : 1 STND
Misc : 25 ML
Quant Time: Dec 27 2:09 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.14	96	1286016	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.38	95	615296	5.07	ug/L		101.43%
57) 1,2-Dichlorobenzene-d4	22.17	152	375132	5.26	ug/L		105.12%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.48	85	58817	1.11	ug/L		96
3) Chloromethane	3.87	50	47430	0.92	ug/L		96
4) Vinyl chloride	4.11	62	55981	1.02	ug/L		95
5) Bromomethane	4.81	94	42701	1.37	ug/L		91
6) Chloroethane	5.07	64	38809	1.16	ug/L		95
7) Trichlorofluoromethane	5.64	101	100026	1.03	ug/L		95
8) 1,1-Dichloroethene	6.76	96	63986	1.06	ug/L	#	87
9) Methylene chloride	7.75	84	177797	3.15	ug/L		99
10) trans-1,2-Dichloroethene	8.28	96	71755	1.04	ug/L		96
12) 1,1-Dichloroethane	9.08	63	136476	1.07	ug/L		94
13) 2,2-Dichloropropane	10.14	77	94898	0.91	ug/L		100
14) cis-1,2-Dichloroethene	10.14	96	73425	1.13	ug/L		93
16) Bromochloromethane	10.57	128	28778	1.14	ug/L		91
17) Chloroform	10.72	83	123482	1.09	ug/L		98
18) 1,1,1-Trichloroethane	11.03	97	119544	1.04	ug/L		98
19) Carbon tetrachloride	11.32	117	110881	1.07	ug/L		99
20) 1,1-Dichloropropene	11.31	75	115092	1.08	ug/L		98
21) Benzene	11.66	78	246277	1.12	ug/L		100
22) 1,2-Dichloroethane	11.69	62	46307	1.11	ug/L		91
23) Trichloroethene	12.77	95	98588	1.10	ug/L		98
24) 1,2-Dichloropropane	13.14	63	81397	1.11	ug/L		98
25) Dibromomethane	13.34	93	32772	1.13	ug/L		93
26) Bromodichloromethane	13.61	83	96933	1.11	ug/L		94
27) cis-1,3-Dichloropropene	14.35	75	86538	1.08	ug/L		98
28) Toluene	14.92	92	176365	1.10	ug/L		96
29) trans-1,3-Dichloropropene	15.29	75	58753	1.11	ug/L		94
30) 1,1,2-Trichloroethane	15.61	83	32109	1.14	ug/L		98
31) Tetrachloroethene	15.88	166	114827	1.09	ug/L		96
32) 1,3-Dichloropropane	15.90	76	62646	1.14	ug/L		96
33) Dibromochloromethane	16.30	129	59804	1.08	ug/L		94
34) 1,2-Dibromoethane	16.50	107	44592	1.11	ug/L		91
35) Chlorobenzene	17.36	112	191225	1.13	ug/L		98
36) 1,1,1,2-Tetrachloroethane	17.49	131	76472	1.12	ug/L		94
37) Ethylbenzene	17.53	91	352270	1.10	ug/L		100
38) Xylene (para & meta)	17.74	106	270164	2.22	ug/L		100
39) Xylene (Ortho)	18.44	106	124211	1.14	ug/L		91
40) Styrene	18.46	104	176351	1.09	ug/L		96

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

Quantitation Report

Data File : d:\hpchem\1\data\c0711.d
Acq On : 27 Dec 95 1:41 am
Sample : 1 STND
Misc : 25 ML
Quant Time: Dec 27 2:09 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.82	173	30664	1.00	ug/L		98
42)	Isopropylbenzene	19.10	105	345163	1.11	ug/L		99
44)	Bromobenzene	19.66	156	82706	1.16	ug/L		96
45)	1,1,2,2-Tetrachloroethane	19.62	83	41214	1.13	ug/L		98
46)	1,2,3-Trichloropropane	19.71	75	43515	1.25	ug/L	#	1
47)	n-Propylbenzene	19.83	91	477540	1.11	ug/L		93
48)	2-Chlorotoluene	20.00	91	283866	1.14	ug/L		92
49)	4-Chlorotoluene	20.19	91	313563	1.18	ug/L		99
50)	1,3,5-Trimethylbenzene	20.15	105	296756	1.13	ug/L		99
51)	tert-Butylbenzene	20.75	119	342119	1.23	ug/L		97
52)	1,2,4-Trimethylbenzene	20.83	105	309306	1.21	ug/L		97
53)	sec-Butylbenzene	21.14	105	469641	1.13	ug/L		98
54)	1,3-Dichlorobenzene	21.36	146	167641	1.18	ug/L		99
55)	4-Isopropyltoluene	21.40	119	374661	1.14	ug/L		99
56)	1,4-Dichlorobenzene	21.52	146	159716	1.16	ug/L		97
58)	1,2-Dichlorobenzene	22.20	146	130322	1.20	ug/L		96
59)	n-Butylbenzene	22.16	91	394240	1.16	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.63	75	7870	1.15	ug/L		84
61)	1,2,4-Trichlorobenzene	25.18	180	102936	1.17	ug/L		97
62)	Hexachlorobutadiene	25.50	225	89378	1.10	ug/L		99
63)	Naphthalene	25.64	128	122191	1.41	ug/L		100
64)	1,2,3-Trichlorobenzene	26.14	180	77999	1.22	ug/L		92
65)	Methyl-tert butyl ether	8.32	73	75918	1.11	ug/L		98

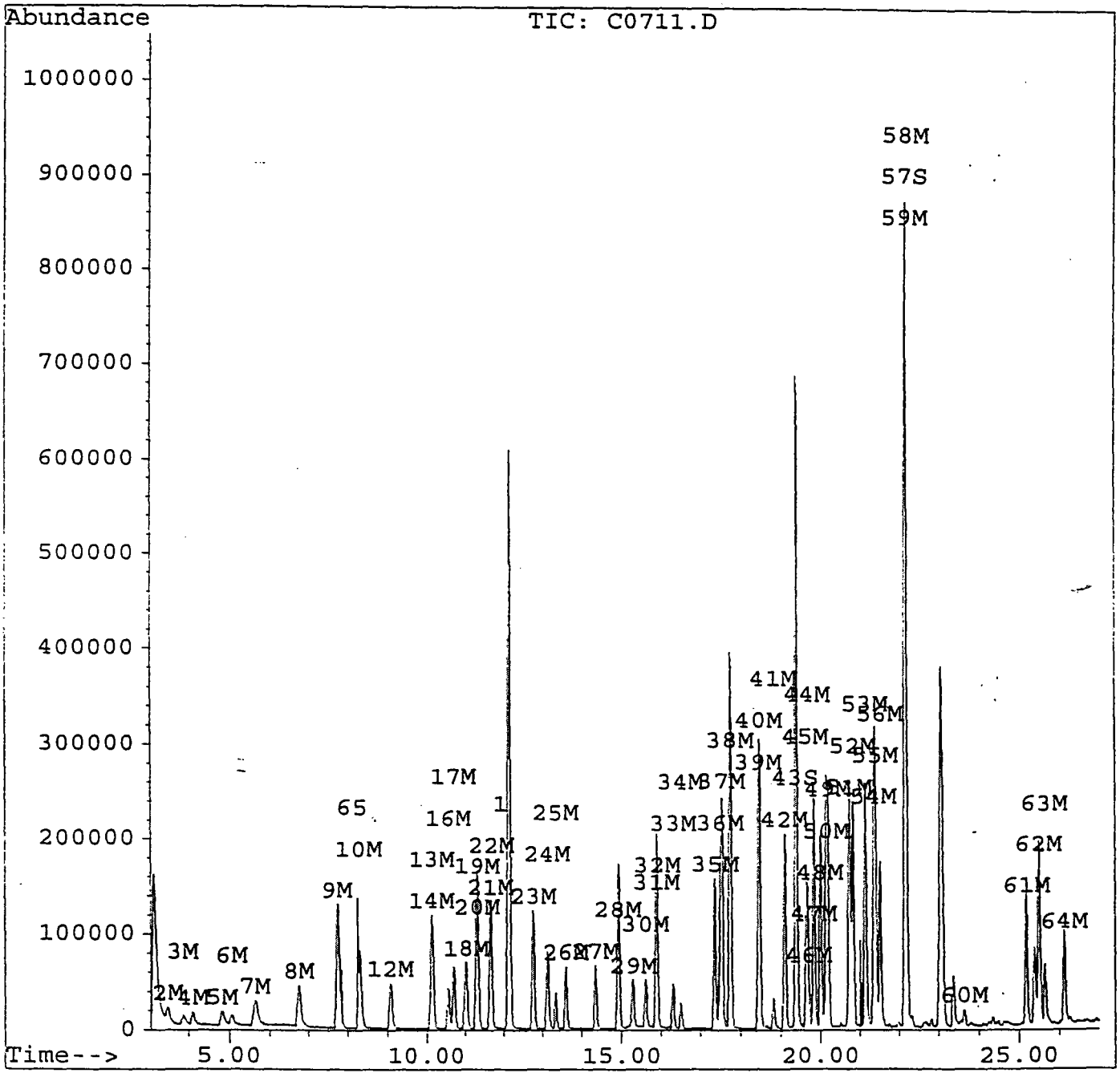
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0711.d
Acq On : 27 Dec 95 1:41 am
Sample : 1 STND
Misc : 25 ML
Quant Time: Dec 27 2:09 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: C0776.D BFB Injection Date: 12/29/95

Instrument ID: 5972-INSTRUMENT 1 BFB Injection Time: 0733

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge: (Y/N) _____

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	43.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	63.4
175	4.0 - 9.0% of mass 174	4.5 (7.1)1
176	93.0 - 101.0% of mass 174	61.9 (97.7)1
177	5.0 - 9.0% of mass 176	4.2 (6.7)2

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

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

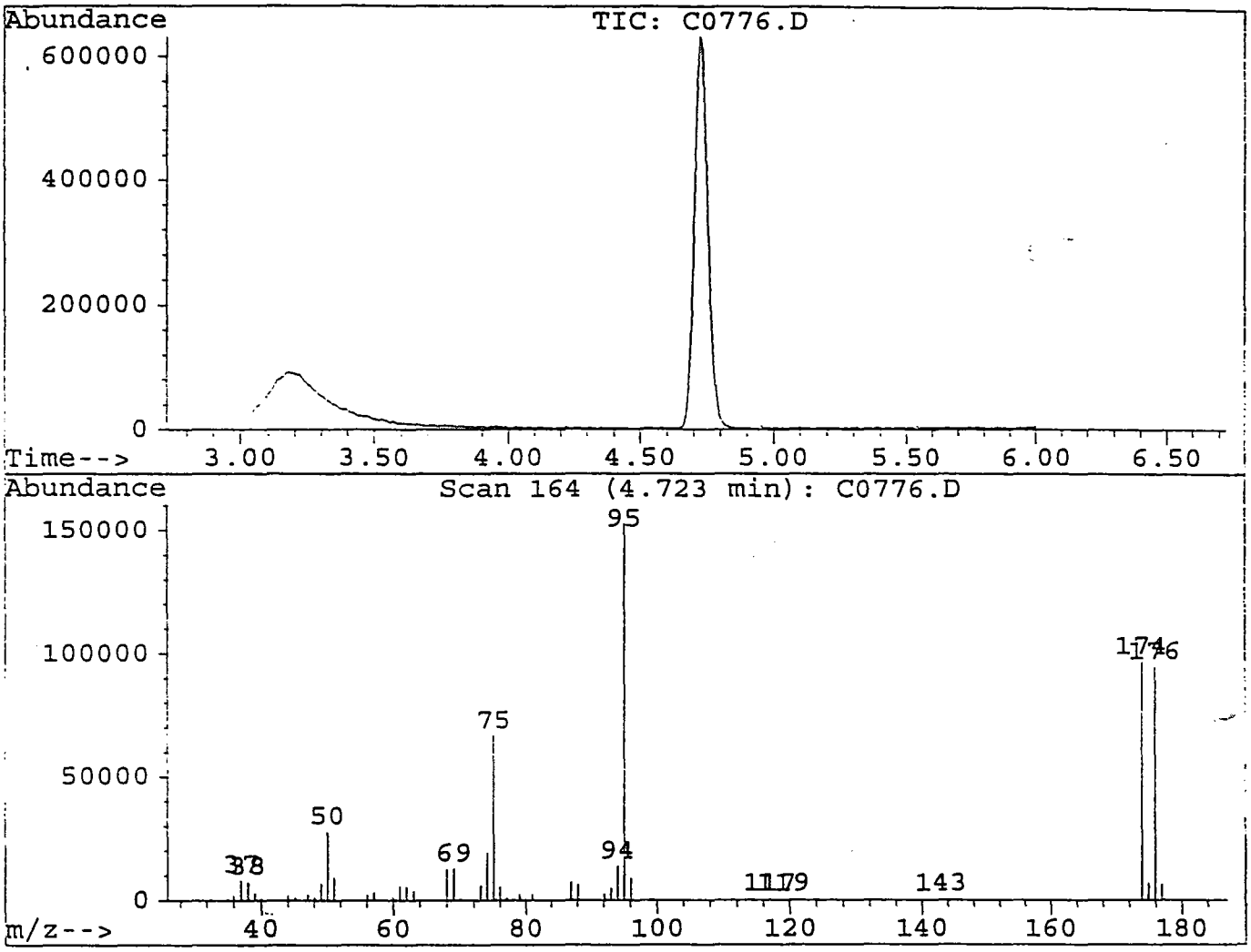
	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	10 STND	C0777.D	12/29/95	0746
02	VBLK01	M. BLANK	C0778.D	12/29/95	0821
03	9558500V	9558500V	C0779.D	12/29/95	0856
04	9558501V	9558501V	C0780.D	12/29/95	0931
05	9558191V	9558191V	C0781.D	12/29/95	1005
06	9558192V	9558192V	C0782.D	12/29/95	1040
07	9558312V	9558312V	C0783.D	12/29/95	1114
08	9558313V	9558313V	C0784.D	12/29/95	1149
09	9558311V	9558311V	C0785.D	12/29/95	1223
10	9558314V	9558314V	C0786.D	12/29/95	1257
11	9558315V	9558315V	C0787.D	12/29/95	1332
12	9558316V	9558316V	C0788.D	12/29/95	1406
13	9558317V	9558317V	C0789.D	12/29/96	1440
14	9559346V	9559346V	C0790.D	12/29/95	1514
15	9558196V	9558196V	C0791.D	12/29/95	1549
16	1 STND	1 STND	C0792.D	12/29/95	1623
17					
18					
19					
20					
21					
22					

CLPBFB

Data File : D:\HPCHEM\1\DATA\C0776.D
Acq On : 29 Dec 95 7:33 am
Sample : BFB TUNE
Misc : 25 NG INJECTION

Vial: 1
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics



Peak Apex is scan: 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	27864	PASS
75	95	30	80	43.6	66584	PASS
95	95	100	100	100.0	152832	PASS
96	95	5	9	6.0	9121	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	63.4	96824	PASS
175	174	5	9	7.1	6856	PASS
176	174	95	101	97.7	94624	PASS
177	176	5	9	6.7	6361	PASS

Scan 164 (4.723 min): C0776.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2026	51.05	9257	71.95	757	88.05	6414
37.10	8219	52.05	587	73.05	5943	91.15	512
38.10	7476	56.10	2305	74.05	19512	92.05	2739
39.10	3027	57.10	3201	75.05	66584	93.05	4872
40.00	1005	60.00	1430	76.05	5474	94.05	13820
44.00	2200	61.00	5803	77.00	1174	95.05	152832
45.10	1467	62.00	5570	78.00	797	96.05	9121
47.05	2516	63.10	4215	79.00	2387	116.95	556
48.05	1132	68.05	12727	80.00	663	119.00	543
49.05	6670	69.05	12898	81.00	2496	141.00	547
50.05	27864	70.05	1269	87.00	7325	143.00	608

Scan 164 (4.723 min): C0776.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.95	96824						
174.95	6856						
175.95	94624						
176.95	6361						

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/29/95 Time: 0746

Lab File ID: C0777.D Init. Calib. Date(s): 12/18/96 _____

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

GC Column: DB-624 X 7 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.205	0.150		26.8	30.0
Chloromethane	0.202	0.168		16.8	30.0
Vinyl chloride	0.214	0.201		6.1	30.0
Bromomethane	0.121	0.127		-5.0	30.0
Chloroethane	0.130	0.136		-4.6	30.0
Trichlorofluoromethane	0.376	0.380		-1.1	30.0
1,1-Dichloroethene	0.234	0.233		0.4	30.0
Methylene chloride	0.220	0.275		-25.0	30.0
trans-1,2-Dichloroethene	0.267	0.269		-0.7	30.0
1,1-Dichloroethane	0.497	0.512		-3.0	30.0
2,2-Dichloropropane	0.407	0.434		-6.6	30.0
cis-1,2-Dichloroethene	0.254	0.264		-3.9	30.0
Bromochloromethane	0.098	0.102		-4.1	30.0
Chloroform	0.439	0.457		-4.1	30.0
1,1,1-Trichloroethane	0.447	0.463		-3.6	30.0
Carbon tetrachloride	0.404	0.426		-5.4	30.0
1,1-Dichloropropene	0.416	0.431		-3.6	30.0
Benzene	0.857	0.883		-3.0	30.0
1,2-Dichloroethane	0.163	0.179		-9.8	30.0
Trichloroethene	0.348	0.363		-4.3	30.0
1,2-Dichloropropane	0.285	0.303		-6.3	30.0
Dibromomethane	0.113	0.122		-8.0	30.0
Bromodichloromethane	0.341	0.370		-8.5	30.0
cis-1,3-Dichloropropene	0.313	0.335		-7.0	30.0
Toluene	0.624	0.638		-2.2	30.0
trans-1,3-Dichloropropene	0.206	0.225		-9.2	30.0
1,1,2-Trichloroethane	0.110	0.119		-8.2	30.0
Tetrachloroethene	0.410	0.420		-2.4	30.0
1,3-Dichloropropane	0.213	0.230		-8.0	30.0
Dibromochloromethane	0.215	0.233		-8.4	30.0
1,2-Dibromoethane	0.000	0.000			30.0
Chlorobenzene	0.660	0.697		-5.6	30.0
1,1,1,2-Tetrachloroethane	0.265	0.283		-6.8	30.0
Ethylbenzene	1.241	1.290		-3.9	30.0
Xylene (para & meta)	0.473	0.495		-4.7	30.0
Xylene (Ortho)	0.424	0.449		-5.9	30.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/29/95 Time: 0746

Lab File ID: C0777.D Init. Calib. Date(s): 12/18/96 _____

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

GC Column: DB-624 X 7 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Styrene	0.626	0.669		-6.9	30.0
Bromoform	0.119	0.123		-3.4	30.0
Isopropylbenzene	1.210	1.280		-5.8	30.0
Bromobenzene	0.276	0.292		-5.8	30.0
1,1,2,2-Tetrachloroethane	0.141	0.154		-9.2	30.0
1,2,3-Trichloropropane	0.135	0.152		-12.6	30.0
n-Propylbenzene	1.672	1.756		-5.0	30.0
2-Chlorotoluene	0.967	0.936		3.2	30.0
4-Chlorotoluene	1.035	1.115		-7.7	30.0
1,3,5-Trimethylbenzene	1.023	1.085		-6.1	30.0
tert-Butylbenzene	1.078	1.223		-13.5	30.0
1,2,4-Trimethylbenzene	0.993	1.051		-5.8	30.0
sec-Butylbenzene	1.621	1.722		-6.2	30.0
1,3-Dichlorobenzene	0.553	0.591		-6.9	30.0
4-Isopropyltoluene	1.277	1.368		-7.1	30.0
1,4-Dichlorobenzene	0.536	0.593		-10.6	30.0
1,2-Dichlorobenzene	0.421	0.454		-7.8	30.0
n-Butylbenzene	1.320	1.405		-6.4	30.0
1,2-Dibromo-3-chloropropane	0.027	0.029		-7.4	30.0
1,2,4-Trichlorobenzene	0.341	0.363		-6.5	30.0
Hexachlorobutadiene	0.316	0.328		-3.8	30.0
Naphthalene	0.338	0.357		-5.6	30.0
1,2,3-Trichlorobenzene	0.248	0.269		-8.5	30.0
4-Bromofluorobenzene	0.472	0.491		-4.0	30.0
1,2-Dichlorobenzene-d4	0.278	0.290		-4.3	30.0

Evaluate Continuing Calibration Report

083

Data File : D:\HPCHEM\1\DATA\C0777.D
Acq On : 29 Dec 95 7:46 am
Sample : 10 PPB CHK STANDARD
Misc : 25 ML

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		Fluorobenzene	1.000	1.000	0.0	98	-0.08
2	M	Dichlorodifluoromethane	0.205	0.150	27.0	67	-0.06
3	M	Chloromethane	0.202	0.168	16.9	77	-0.06
4	M	Vinyl chloride	0.214	0.201	6.4	85	-0.06
5	M	Bromomethane	0.121	0.127	-5.0	104	-0.07
6	M	Chloroethane	0.130	0.136	-4.8	90	-0.08
7	M	Trichlorofluoromethane	0.376	0.380	-0.9	94	-0.07
8	M	1,1-Dichloroethene	0.234	0.233	0.7	93	-0.08
9	M	Methylene chloride	0.220	0.275	-25.3	106	-0.09
10	M	trans-1,2-Dichloroethene	0.267	0.269	-0.9	95	-0.08
11		Hexane	0.000	0.000#	0.0	0#	-0.17
12	M	1,1-Dichloroethane	0.497	0.512	-2.9	97	-0.09
13	M	2,2-Dichloropropane	0.407	0.434	-6.6	100	-0.08
14	M	cis-1,2-Dichloroethene	0.254	0.264	-4.0	99	-0.08
15		2-Butanone	0.000	0.000#	0.0	0#	-11.21#
16	M	Bromochloromethane	0.098	0.102	-3.5	101	-0.08
17	M	Chloroform	0.439	0.457	-4.1	100	-0.08
18	M	1,1,1-Trichloroethane	0.447	0.463	-3.5	98	-0.08
19	M	Carbon tetrachloride	0.404	0.426	-5.4	99	-0.09
20	M	1,1-Dichloropropene	0.416	0.431	-3.8	97	-0.08
21	M	Benzene	0.857	0.883	-3.1	99	-0.08
22	M	1,2-Dichloroethane	0.163	0.179	-10.0	104	-0.08
23	M	Trichloroethene	0.348	0.363	-4.2	99	-0.08
24	M	1,2-Dichloropropane	0.285	0.303	-6.4	101	-0.08
25	M	Dibromomethane	0.113	0.122	-8.3	104	-0.08
26	M	Bromodichloromethane	0.341	0.370	-8.5	103	-0.07
27	M	cis-1,3-Dichloropropene	0.313	0.335	-7.2	102	-0.07
28	M	Toluene	0.624	0.638	-2.2	99	-0.08
29	M	trans-1,3-Dichloropropene	0.206	0.225	-9.0	103	-0.08
30	M	1,1,2-Trichloroethane	0.110	0.119	-8.7	104	-0.08
31	M	Tetrachloroethene	0.410	0.420	-2.6	98	-0.07
32	M	1,3-Dichloropropane	0.213	0.230	-7.8	104	-0.08
33	M	Dibromochloromethane	0.215	0.233	-8.6	105	-0.08
34	M	1,2-Dibromoethane	0.156	0.169	-8.2	104	-0.07
35	M	Chlorobenzene	0.660	0.697	-5.7	100	-0.07
36	M	1,1,1,2-Tetrachloroethane	0.265	0.283	-6.9	102	-0.07
37	M	Ethylbenzene	1.241	1.290	-4.0	98	-0.07
38	M	Xylene (para & meta)	0.473	0.495	-4.5	97	-0.07
39	M	Xylene (Ortho)	0.424	0.449	-5.8	100	-0.07
40	M	Styrene	0.626	0.669	-6.8	100	-0.07
41	M	Bromoform	0.119	0.123	-2.6	104	-0.07
42	M	Isopropylbenzene	1.210	1.280	-5.8	100	-0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\C0777.D
Acq On : 29 Dec 95 7:46 am
Sample : 10 PPB CHK STANDARD
Misc : 25 ML

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
43	S	4-Bromofluorobenzene	0.472	0.491	-4.1	102	-0.07
44	M	Bromobenzene	0.276	0.292	-5.7	100	-0.07
45	M	1,1,2,2-Tetrachloroethane	0.141	0.154	-9.2	104	-0.06
46	M	1,2,3-Trichloropropane	0.135	0.152	-12.4	113	-0.07
47	M	n-Propylbenzene	1.672	1.756	-5.0	99	-0.06
48	M	2-Chlorotoluene	0.967	0.936	3.2	91	-0.07
49	M	4-Chlorotoluene	1.035	1.115	-7.7	100	-0.06
50	M	1,3,5-Trimethylbenzene	1.023	1.085	-6.1	99	-0.07
51	M	tert-Butylbenzene	1.078	1.223	-13.5	110	-0.06
52	M	1,2,4-Trimethylbenzene	0.993	1.051	-5.8	99	-0.06
53	M	sec-Butylbenzene	1.621	1.722	-6.3	99	-0.06
54	M	1,3-Dichlorobenzene	0.553	0.591	-6.8	100	-0.06
55	M	4-Isopropyltoluene	1.277	1.368	-7.1	99	-0.06
56	M	1,4-Dichlorobenzene	0.536	0.593	-10.7	104	-0.23
57	S	1,2-Dichlorobenzene-d4	0.278	0.290	-4.6	101	-0.07
58	M	1,2-Dichlorobenzene	0.421	0.454	-7.9	102	-0.06
59	M	n-Butylbenzene	1.320	1.405	-6.4	98	-0.06
60	M	1,2-Dibromo-3-chloropropane	0.027	0.029	-7.4	107	-0.06
61	M	1,2,4-Trichlorobenzene	0.341	0.363	-6.4	101	-0.06
62	M	Hexachlorobutadiene	0.316	0.328	-3.7	97	-0.06
63	M	Naphthalene	0.338	0.357	-5.7	104	-0.06
64	M	1,2,3-Trichlorobenzene	0.248	0.269	-8.6	102	-0.07
65		Methyl-tert butyl ether	0.266	0.277	-4.0	102	-0.08
66		tert-Butyl Alcohol	0.004	0.005	-12.7	115	-0.08

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0777.D
Acq On : 29 Dec 95 7:46 am
Sample : 10 PPB CHK STANDARD
Misc : 25 ML
Quant Time: Dec 31 8:26 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.05	96	1403737	5.00	ug/L	-0.08
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.30	95	689126	5.20	ug/L	104.07%
57) 1,2-Dichlorobenzene-d4	22.10	152	407547	5.23	ug/L	104.62%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.41	85	420323	7.30	ug/L m	97
3) Chloromethane	3.81	50	470415	8.31	ug/L	96
4) Vinyl chloride	4.04	62	563448	9.36	ug/L	97
5) Bromomethane	4.72	94	357192	10.50	ug/L	97
6) Chloroethane	4.96	64	382958	10.48	ug/L	99
7) Trichlorofluoromethane	5.56	101	1065960	10.09	ug/L	98
8) 1,1-Dichloroethene	6.66	96	653428	9.93	ug/L	97
9) Methylene chloride	7.66	84	772588	12.53	ug/L	91
10) trans-1,2-Dichloroethene	8.20	96	756408	10.09	ug/L	98
12) 1,1-Dichloroethane	8.99	63	1436112	10.29	ug/L	98
13) 2,2-Dichloropropane	10.04	77	1217287	10.66	ug/L	99
14) cis-1,2-Dichloroethene	10.05	96	740911	10.40	ug/L	99
16) Bromochloromethane	10.49	128	286299	10.35	ug/L	94
17) Chloroform	10.63	83	1282270	10.41	ug/L	98
18) 1,1,1-Trichloroethane	10.94	97	1298457	10.35	ug/L	99
19) Carbon tetrachloride	11.23	117	1195063	10.54	ug/L	97
20) 1,1-Dichloropropene	11.23	75	1211035	10.38	ug/L	99
21) Benzene	11.58	78	2478794	10.31	ug/L	100
22) 1,2-Dichloroethane	11.61	62	501697	11.00	ug/L	99
23) Trichloroethene	12.68	95	1019469	10.42	ug/L	98
24) 1,2-Dichloropropane	13.05	63	850519	10.64	ug/L	99
25) Dibromomethane	13.26	93	342666	10.83	ug/L	99
26) Bromodichloromethane	13.53	83	1037841	10.85	ug/L	99
27) cis-1,3-Dichloropropene	14.28	75	940934	10.72	ug/L	99
28) Toluene	14.85	92	1789813	10.22	ug/L	100
29) trans-1,3-Dichloropropene	15.21	75	631839	10.90	ug/L	98
30) 1,1,2-Trichloroethane	15.53	83	334915	10.87	ug/L	96
31) Tetrachloroethene	15.81	166	1179355	10.26	ug/L	99
32) 1,3-Dichloropropane	15.82	76	645267	10.78	ug/L	97
33) Dibromochloromethane	16.22	129	655503	10.86	ug/L	99
34) 1,2-Dibromoethane	16.42	107	473135	10.82	ug/L	99
35) Chlorobenzene	17.28	112	1957735	10.57	ug/L	99
36) 1,1,1,2-Tetrachloroethane	17.41	131	794514	10.69	ug/L	97
37) Ethylbenzene	17.46	91	3622160	10.40	ug/L	98
38) Xylene (para & meta)	17.66	106	2777346	20.91	ug/L	98
39) Xylene (Ortho)	18.37	106	1260897	10.58	ug/L	99
40) Styrene	18.39	104	1877436	10.68	ug/L	98

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

Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0777.D
Acq On : 29 Dec 95 7:46 am
Sample : 10 PPB CHK STANDARD
Misc : 25 ML
Quant Time: Dec 31 8:26 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.73	173	344258	10.26	ug/L		98
42)	Isopropylbenzene	19.02	105	3592947	10.58	ug/L	m	0
44)	Bromobenzene	19.59	156	820454	10.57	ug/L		96
45)	1,1,2,2-Tetrachloroethane	19.55	83	433507	10.92	ug/L		100
46)	1,2,3-Trichloropropane	19.63	75	426033	11.24	ug/L	#	1
47)	n-Propylbenzene	19.77	91	4928524	10.50	ug/L		94
48)	2-Chlorotoluene	19.93	91	2627469	9.68	ug/L		91
49)	4-Chlorotoluene	20.13	91	3129531	10.77	ug/L	m	98
50)	1,3,5-Trimethylbenzene	20.07	105	3046871	10.61	ug/L		99
51)	tert-Butylbenzene	20.67	119	3433009	11.35	ug/L		99
52)	1,2,4-Trimethylbenzene	20.77	105	2949983	10.58	ug/L		99
53)	sec-Butylbenzene	21.07	105	4835697	10.63	ug/L		99
54)	1,3-Dichlorobenzene	21.29	146	1657965	10.68	ug/L		99
55)	4-Isopropyltoluene	21.33	119	3840282	10.71	ug/L		99
56)	1,4-Dichlorobenzene	21.29	146	1664041	11.07	ug/L		98
58)	1,2-Dichlorobenzene	22.14	146	1274288	10.79	ug/L	m	0
59)	n-Butylbenzene	22.08	91	3944214	10.64	ug/L		100
60)	1,2-Dibromo-3-chloropropan	23.56	75	80247	10.74	ug/L		98
61)	1,2,4-Trichlorobenzene	25.11	180	1019076	10.64	ug/L		98
62)	Hexachlorobutadiene	25.43	225	921032	10.37	ug/L		99
63)	Naphthalene	25.57	128	1003114	10.57	ug/L		100
64)	1,2,3-Trichlorobenzene	26.05	180	755755	10.86	ug/L	m	0
65)	Methyl-tert butyl ether	8.24	73	776819	10.40	ug/L		99
66)	tert-Butyl Alcohol	8.00	59	25434	22.54	ug/L		100

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

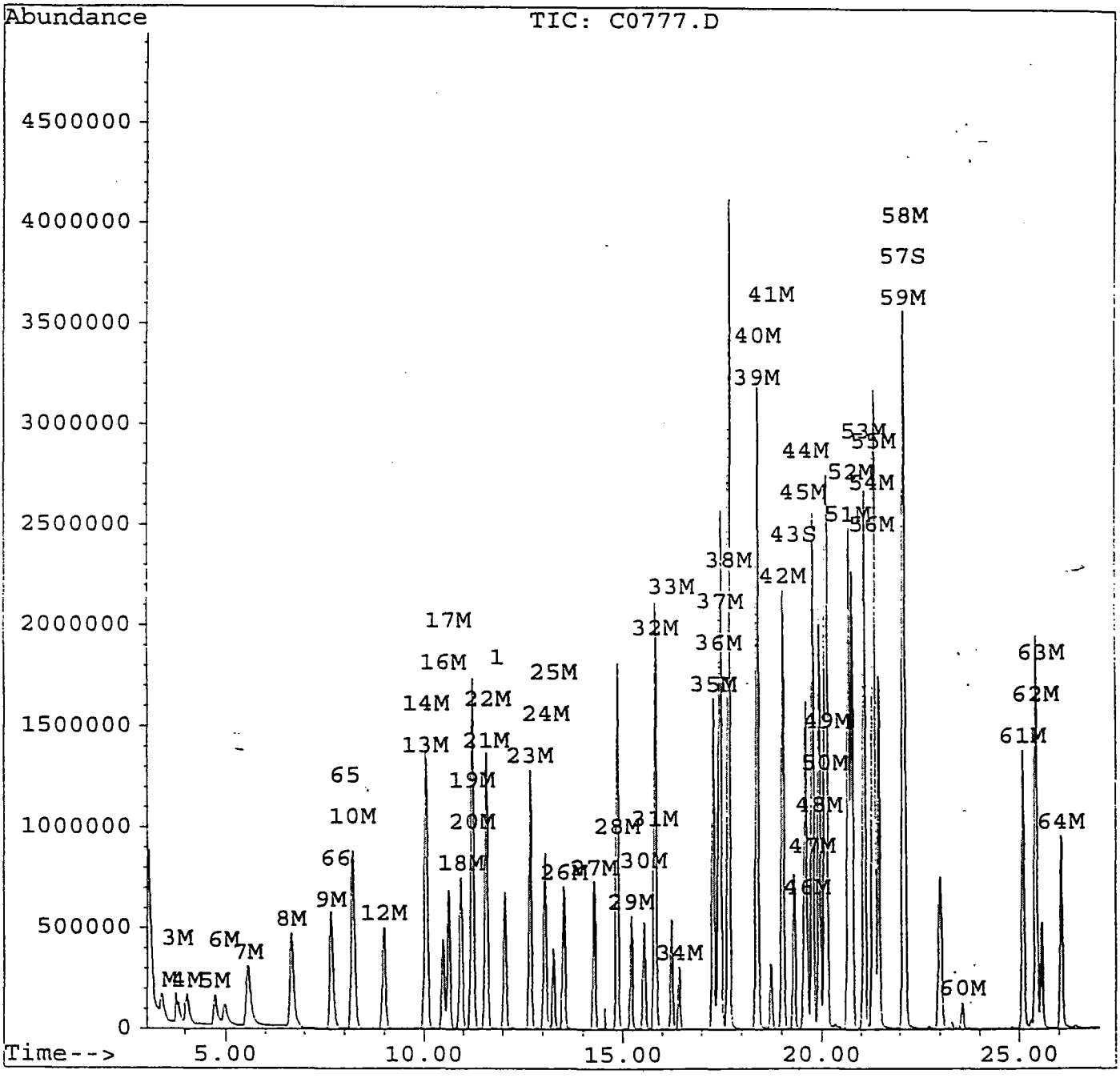
Quantitation Report

087

Data File : D:\HPCHEM\1\DATA\C0777.D
Acq On : 29 Dec 95 7:46 am
Sample : 10 PPB CHK STANDARD
Misc : 25 ML
Quant Time: Dec 31 8:26 1995

Vial: 2
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0792.d
Acq On : 29 Dec 95 4:23 pm
Sample : 1 PPB QCS
Misc : 25 ML
Quant Time: Dec 31 8:51 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.06	96	1245852	5.00	ug/L	-0.07
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.31	95	608759	5.18	ug/L	103.59%
57) 1,2-Dichlorobenzene-d4	22.11	152	367326	5.31	ug/L	106.25%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.42	85	73513	1.44	ug/L	96
3) Chloromethane	3.82	50	45628	0.91	ug/L	96
4) Vinyl chloride	4.04	62	60363	1.13	ug/L	99
5) Bromomethane	4.74	94	39672	1.31	ug/L	92
6) Chloroethane	4.99	64	36277	1.12	ug/L	95
7) Trichlorofluoromethane	5.56	101	110248	1.18	ug/L	100
8) 1,1-Dichloroethene	6.67	96	69402	1.19	ug/L	92
9) Methylene chloride	7.67	84	265494	4.85	ug/L	97
10) trans-1,2-Dichloroethene	8.21	96	78322	1.18	ug/L	99
12) 1,1-Dichloroethane	8.99	63	141759	1.14	ug/L	96
13) 2,2-Dichloropropane	10.05	77	96082	0.95	ug/L	93
14) cis-1,2-Dichloroethene	10.06	96	74213	1.17	ug/L	91
16) Bromochloromethane	10.48	128	26621	1.08	ug/L	95
17) Chloroform	10.64	83	126263	1.15	ug/L	98
18) 1,1,1-Trichloroethane	10.95	97	123661	1.11	ug/L	99
19) Carbon tetrachloride	11.25	117	114843	1.14	ug/L	93
20) 1,1-Dichloropropene	11.24	75	124205	1.20	ug/L	98
21) Benzene	11.59	78	234798	1.10	ug/L	100
22) 1,2-Dichloroethane	11.62	62	47810	1.18	ug/L	96
23) Trichloroethene	12.69	95	101687	1.17	ug/L	98
24) 1,2-Dichloropropane	13.06	63	85312	1.20	ug/L	98
25) Dibromomethane	13.27	93	33705	1.20	ug/L	97
26) Bromodichloromethane	13.53	83	104647	1.23	ug/L	99
27) cis-1,3-Dichloropropene	14.28	75	98548	1.26	ug/L	96
28) Toluene	14.86	92	194990	1.25	ug/L	99
29) trans-1,3-Dichloropropene	15.22	75	63438	1.23	ug/L	97
30) 1,1,2-Trichloroethane	15.53	83	35546	1.30	ug/L	93
31) Tetrachloroethene	15.81	166	121492	1.19	ug/L	93
32) 1,3-Dichloropropane	15.83	76	67532	1.27	ug/L	97
33) Dibromochloromethane	16.23	129	68315	1.27	ug/L	99
34) 1,2-Dibromoethane	16.43	107	48371	1.25	ug/L	97
35) Chlorobenzene	17.28	112	197486	1.20	ug/L	100
36) 1,1,1,2-Tetrachloroethane	17.43	131	86621	1.31	ug/L	98
37) Ethylbenzene	17.47	91	359249	1.16	ug/L	100
38) Xylene (para & meta)	17.67	106	278071	2.36	ug/L	98
39) Xylene (Ortho)	18.37	106	127821	1.21	ug/L	97
40) Styrene	18.40	104	186037	1.19	ug/L	94

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

Quantitation Report

Data File : d:\hpchem\1\data\c0792.d
Acq On : 29 Dec 95 4:23 pm
Sample : 1 PPB QCS
Misc : 25 ML
Quant Time: Dec 31 8:51 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	35649	1.20	ug/L		98
42)	Isopropylbenzene	19.02	105	394176	1.31	ug/L		98
44)	Bromobenzene	19.59	156	84542	1.23	ug/L		98
45)	1,1,2,2-Tetrachloroethane	19.55	83	48726	1.38	ug/L		97
46)	1,2,3-Trichloropropane	19.64	75	48400	1.44	ug/L	#	1
47)	n-Propylbenzene	19.77	91	505226	1.21	ug/L		93
48)	2-Chlorotoluene	19.94	91	303009	1.26	ug/L		91
49)	4-Chlorotoluene	20.13	91	324807	1.26	ug/L	m	99
50)	1,3,5-Trimethylbenzene	20.09	105	305207	1.20	ug/L		99
51)	tert-Butylbenzene	20.68	119	365194	1.36	ug/L		100
52)	1,2,4-Trimethylbenzene	20.77	105	307969	1.24	ug/L		97
53)	sec-Butylbenzene	21.08	105	511494	1.27	ug/L		98
54)	1,3-Dichlorobenzene	21.30	146	181354	1.32	ug/L		97
55)	4-Isopropyltoluene	21.34	119	392196	1.23	ug/L		97
56)	1,4-Dichlorobenzene	21.46	146	176198	1.32	ug/L		96
58)	1,2-Dichlorobenzene	22.15	146	142686	1.36	ug/L	m	0
59)	n-Butylbenzene	22.09	91	390177	1.19	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.57	75	8536	1.29	ug/L		92
61)	1,2,4-Trichlorobenzene	25.11	180	99855	1.17	ug/L		95
62)	Hexachlorobutadiene	25.43	225	92085	1.17	ug/L		99
63)	Naphthalene	25.57	128	106006	1.26	ug/L		100
64)	1,2,3-Trichlorobenzene	26.07	180	74405	1.20	ug/L		99

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

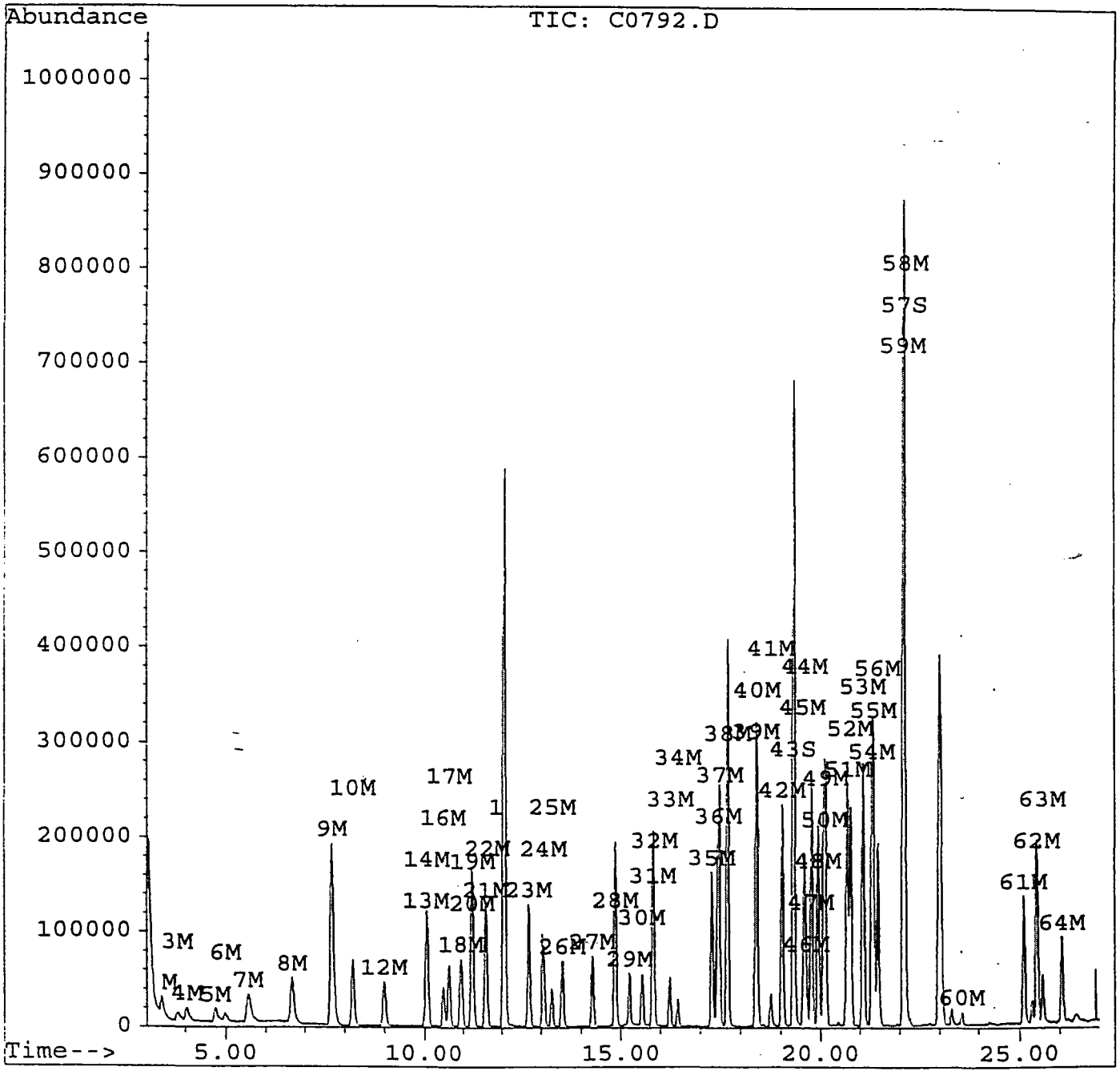
090

Quantitation Report

Data File : d:\hpchem\1\data\c0792.d
Acq On : 29 Dec 95 4:23 pm
Sample : 1 PPB QCS
Misc : 25 ML
Quant Time: Dec 31 8:51 1995

Vial: 17
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

091

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): C0696.D Date Analyzed: 12/26/95

Instrument ID: 5972-INSTRUMENT 1 Time Analyzed: 1706

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge (Y/N) N

		IS1 (FBZ) AREA #	RT #	AREA #	RT #	AREA #	RT #
	8 HOUR STD	1403167	12.14				
	UPPER LIMIT	1824117	12.64				
	LOWER LIMIT	982217	11.64				
	SAMPLE NO.						
01	VBLK01	1394456	12.14				
02	9557856V	1410488	12.13				
03	9557857V	1389985	12.14				
04	9558188V	1331918	12.13				
05	9558189V	1315325	12.14				
06	9558190V	1269155	12.13				
07	9558191V	1252384	12.14				
08	9558192V	1346572	12.13				
09	9558196V	1326650	12.14				
10	9558197V	1334639	12.15				
11	9558195V	1398582	12.14				
12	9557856MS	1289903	12.14				
13	9557856MSD	1165721	12.12				
14	10 QCS	1346351	12.13				
15	1 STND	1286016	12.14				
16							
17							
18							
19							
20							
21							
22							

IS1 (FBZ) = Fluorobenzene

AREA UPPER LIMIT = +30% of internal standard area
AREA LOWER LIMIT = -30% 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.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

092

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): C0777.D Date Analyzed: 12/29/95

Instrument ID: 5972-INSTRUMENT 1 Time Analyzed: 0746

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge (Y/N) ___

		IS1 (FBZ) AREA #	RT #	AREA #	RT #	AREA #	RT #
	8 HOUR STD	1403737	12.05				
	UPPER LIMIT	1824858	12.55				
	LOWER LIMIT	982616	11.55				
	SAMPLE NO.						
01	VBLK01	1420918	12.06				
02	9558500V	1402153	12.07				
03	9558501V	1394848	12.08				
04	9558191V	1320567	12.08				
05	9558192V	1349002	12.08				
06	9558312V	1322876	12.07				
07	9558313V	1334653	12.07				
08	9558311V	1342950	12.07				
09	9558314V	1339570	12.06				
10	9558315V	1257455	12.07				
11	9558316V	1340207	12.06				
12	9558317V	1252968	12.07				
13	9559346V	1142560	12.06				
14	9558196V	1293768	12.05				
15	1 STND	1245852	12.06				
16							
17							
18							
19							
20							
21							
22							

IS1 (FBZ) = Fluorobenzene

AREA UPPER LIMIT = +30% of internal standard area
AREA LOWER LIMIT = -30% 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.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2096.1 093

MW1-293361

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.1	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	1.1	
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2006.1

MW1-293376

094

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL# 2006.1 mw1-2733761

095

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: 2

Matrix: (soil/water) WATER Lab Sample ID: 9558311V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0785.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Column Bleed	19.61	3	J
2.	Column Bleed	23.00	5	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : d:\hpchem\1\data\c0785.d
Acq On : 29 Dec 95 12:23 pm
Sample : 9558311 BLDG.290 MW-2
Misc : 25 ML
Quant Time: Dec 31 8:37 1995

Vial: 10 096
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.07	96	1342950	5.00	ug/L	-0.07
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.31	95	657127	5.19	ug/L	103.73%
57) 1,2-Dichlorobenzene-d4	22.11	152	384641	5.16	ug/L	103.21%
Target Compounds						Qvalue
9) Methylene chloride	7.67	84	62339	1.06	ug/L #	84
14) cis-1,2-Dichloroethene	10.08	96	71561	1.05	ug/L	88

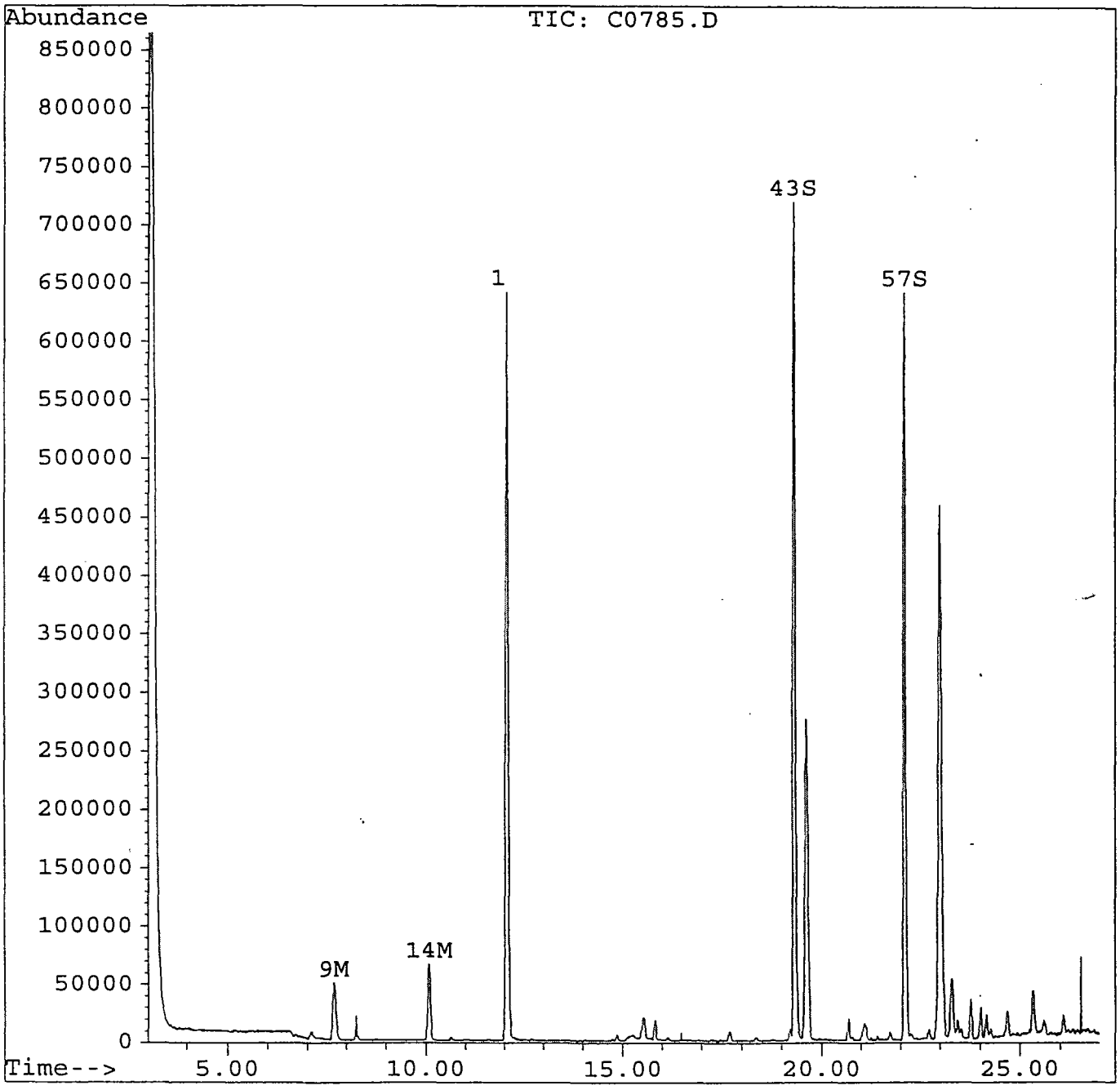
(#) = qualifier out of range (m) = manual integration

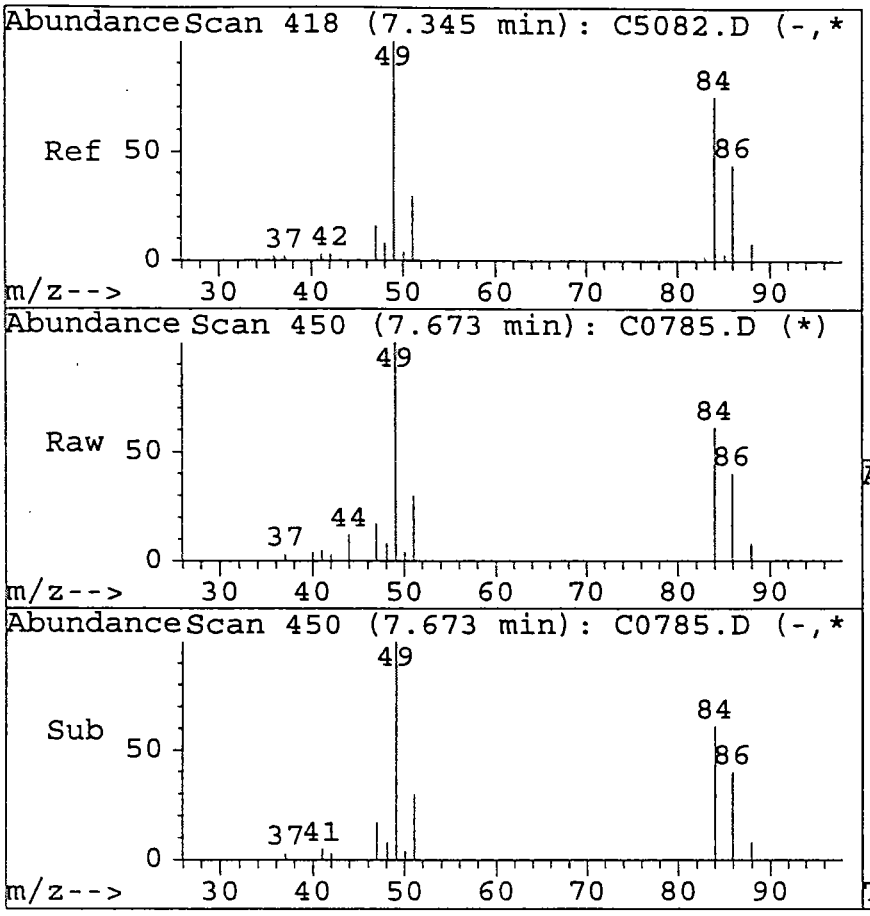
Quantitation Report

Data File : d:\hpchem\1\data\c0785.d
Acq On : 29 Dec 95 12:23 pm
Sample : 9558311 BLDG.290 MW-2
Misc : 25 ML
Quant Time: Dec 31 8:37 1995

Vial: 10
Operator: SRK 097
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



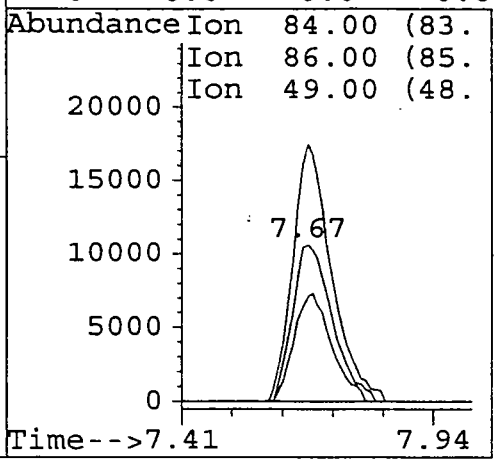


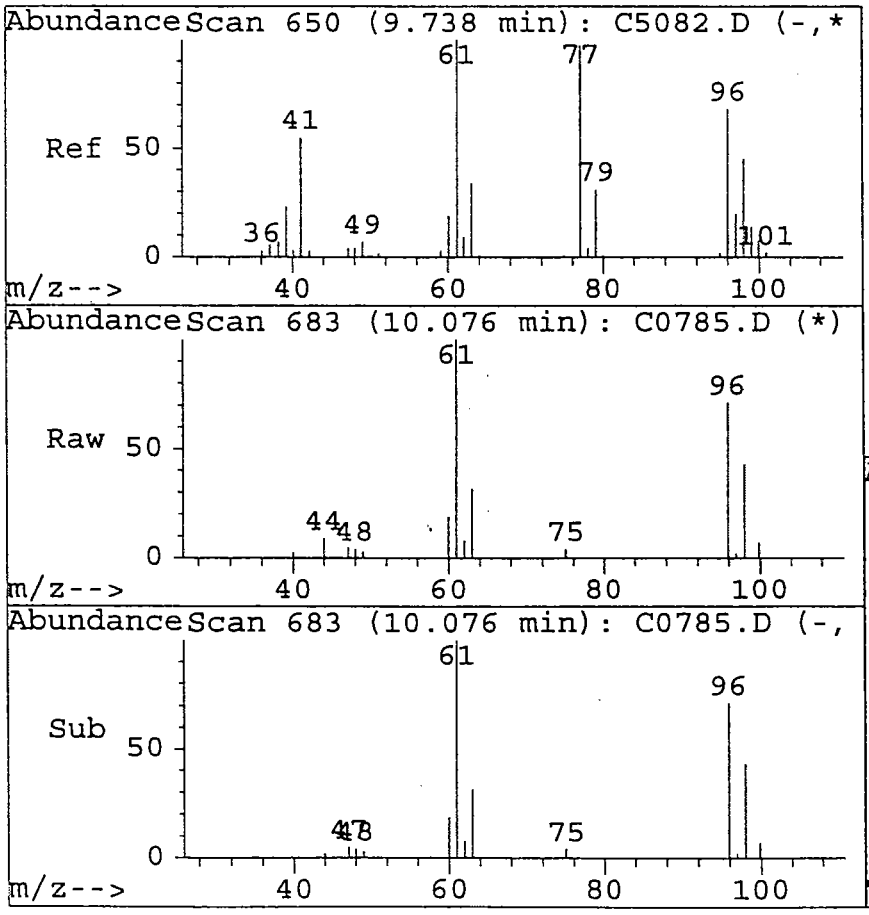
#9
Methylene chloride
Concen: 1.06 ug/L
RT: 7.67 min Scan# 450
Delta R.T. -0.08 min
Lab File: c0785.d
Acq: 29 Dec 95 12:23 pm

098

Tgt Ion:84 Resp: 62339

Ion	Ratio	Lower	Upper
84	100		
86	66.5	41.4	81.4
49	164.6	120.0	160.0#
0	0.0	0.0	0.0

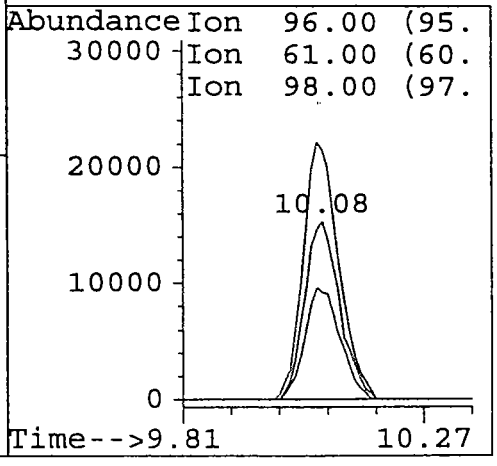




#14
cis-1,2-Dichloroethene
Concen: 1.05 ug/L
RT: 10.08 min Scan# 683
Delta R.T. -0.06 min
Lab File: c0785.d
Acq: 29 Dec 95 12:23 pm

Tgt Ion:96 Resp: 71561

Ion	Ratio	Lower	Upper
96	100		
61	140.1	139.7	179.7
98	60.0	44.9	84.9
0	0.0	0.0	0.0



Library Search Compound Report

099

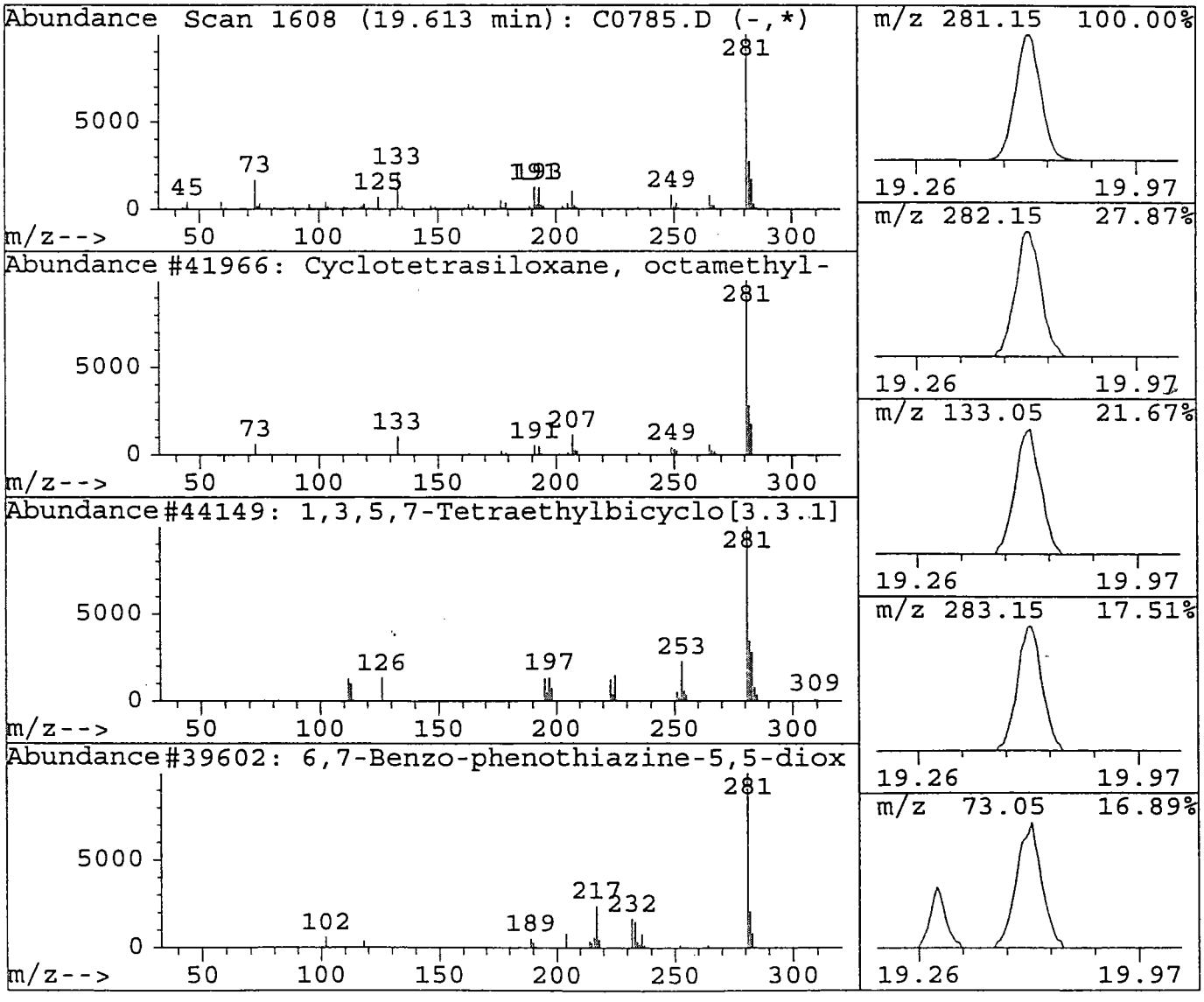
Data File : d:\hpchem\1\data\c0785.d
Acq On : 29 Dec 95 12:23 pm
Sample : 9558311 BLDG.290 MW-2
Misc : 25 ML

Vial: 10
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.61	2.70 ug/L	1531587	Fluorobenzene	12.07

Hit# of 16	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	41966	000556-67-2	72
2	1,3,5,7-Tetraethylbicyclo[3.3.1]tet	44149	073420-21-0	4
3	6,7-Benzo-phenothiazine-5,5-dioxide	39602	000000-00-0	9
4	Benzene, 1-phenyl-4-(2-cyano-2-phen	39643	027869-56-3	47
5	3,6-Bis(N-dimethylamino)-9-ethylcar	39624	057103-04-5	9



Library Search Compound Report

100

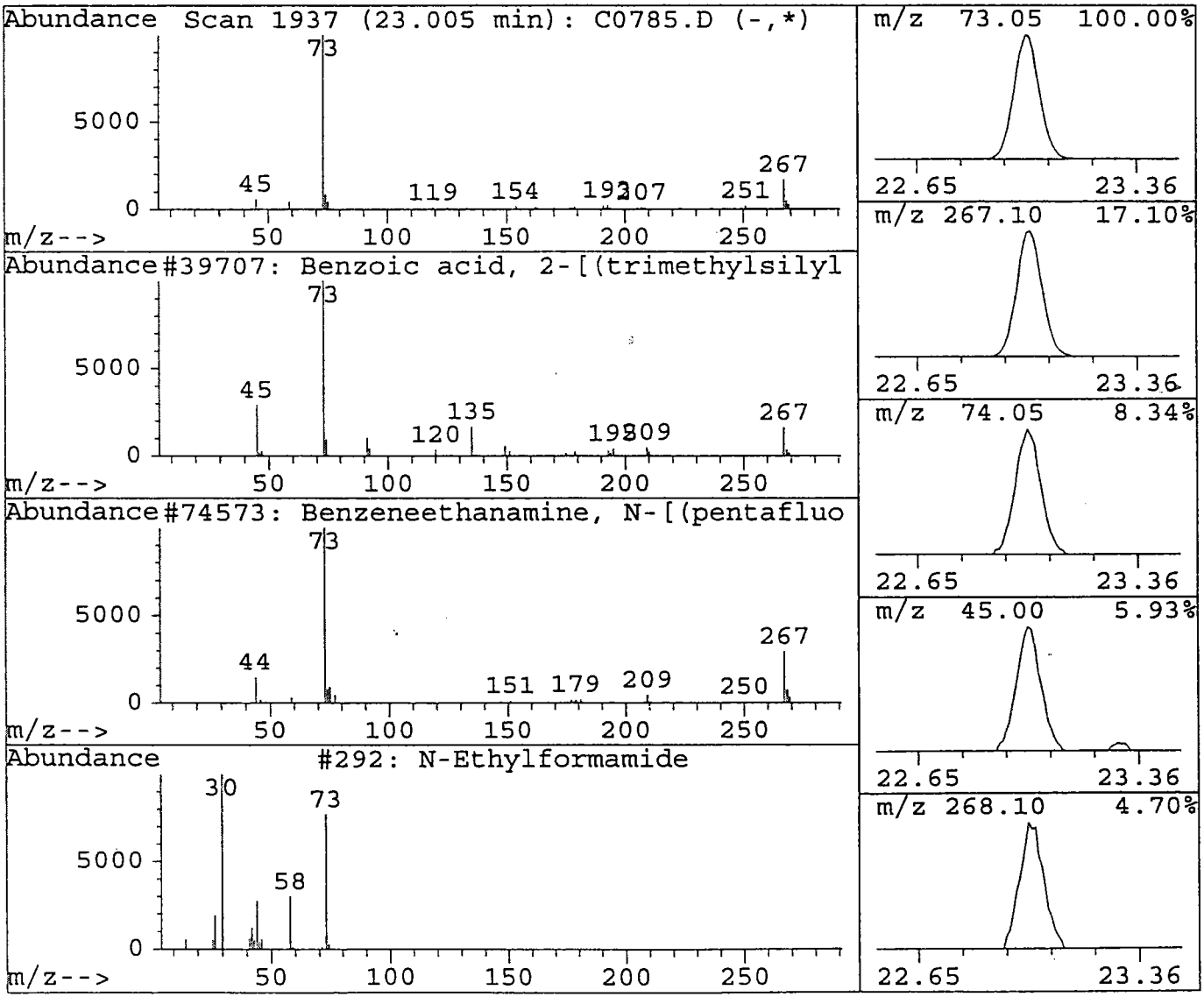
Data File : d:\hpchem\1\data\c0785.d
Acq On : 29 Dec 95 12:23 pm
Sample : 9558311 BLDG.290 MW-2
Misc : 25 ML

Vial: 10
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
23.00	4.74 ug/L	2681907	Fluorobenzene	12.07

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl)ox	39707	003789-85-3	4
2	Benzeneethanamine, N-[(pentafluorop	74573	055429-85-1	28
3	N-Ethylformamide	292	000627-45-2	3
4	Silane, 9H-fluoren-9-yltrimethyl-	31629	007385-10-6	9
5	Benzeneacetic acid, trimethylsilyl	70091	002078-18-4	5



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 101

2003.2
TB

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.4	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2002.2 TB

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL# 2012.2 TB

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: _____ NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9558312V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0783.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 3 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 109-99-9	Furan, tetrahydro-	10.61	2	J
2.	Column Bleed	19.62	2	J
3.	Column Bleed	23.00	1	J
4.				
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Quantitation Report

Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML
Quant Time: Dec 31 8:35 1995

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.07	96	1322876	5.00	ug/L	-0.06
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	643966	5.16	ug/L	103.20%
57) 1,2-Dichlorobenzene-d4	22.11	152	380637	5.18	ug/L	103.69%
Target Compounds						Qvalue
9) Methylene chloride	7.67	84	81198	1.40	ug/L	95

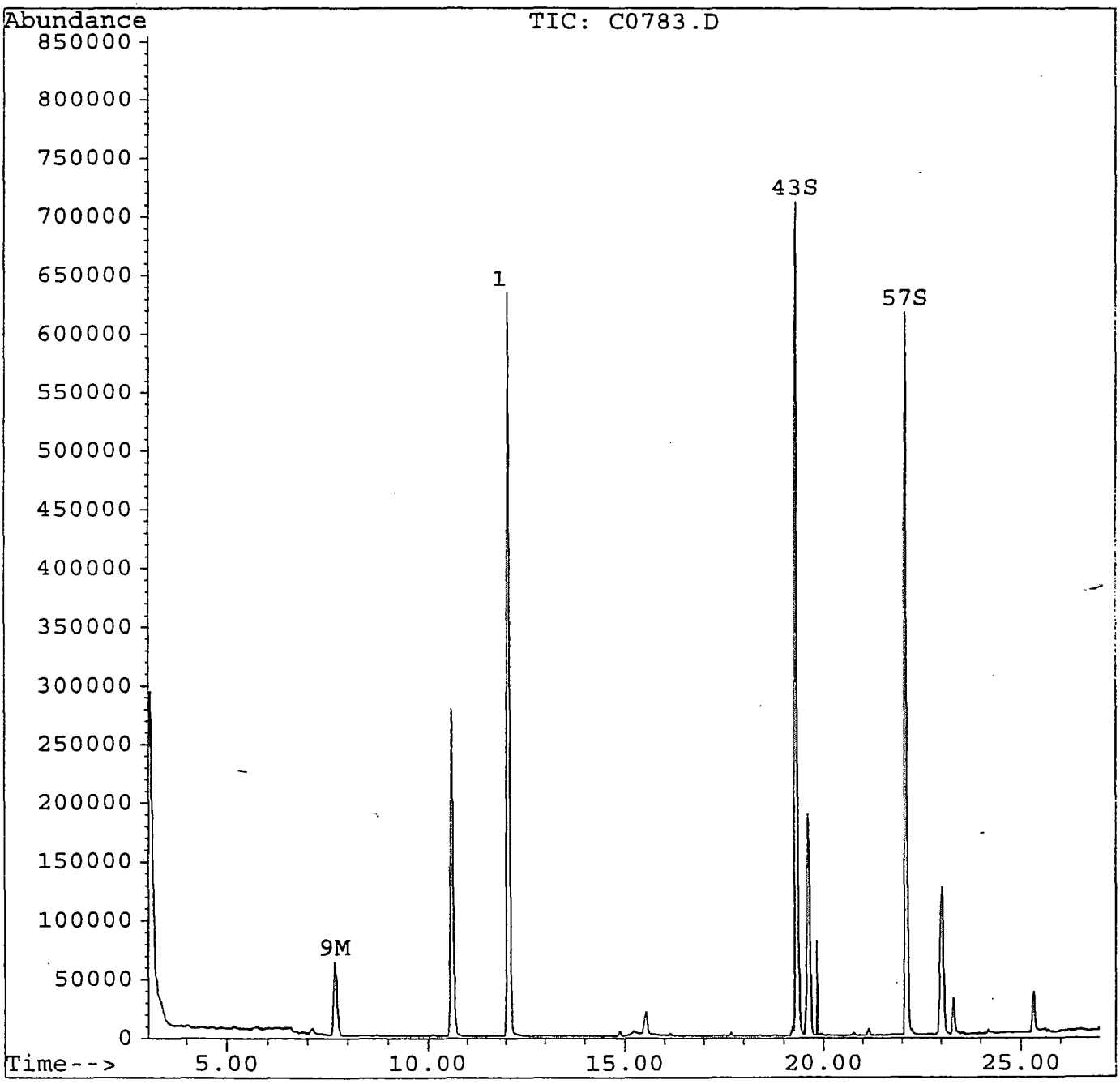
(#) = qualifier out of range (m) = manual integration

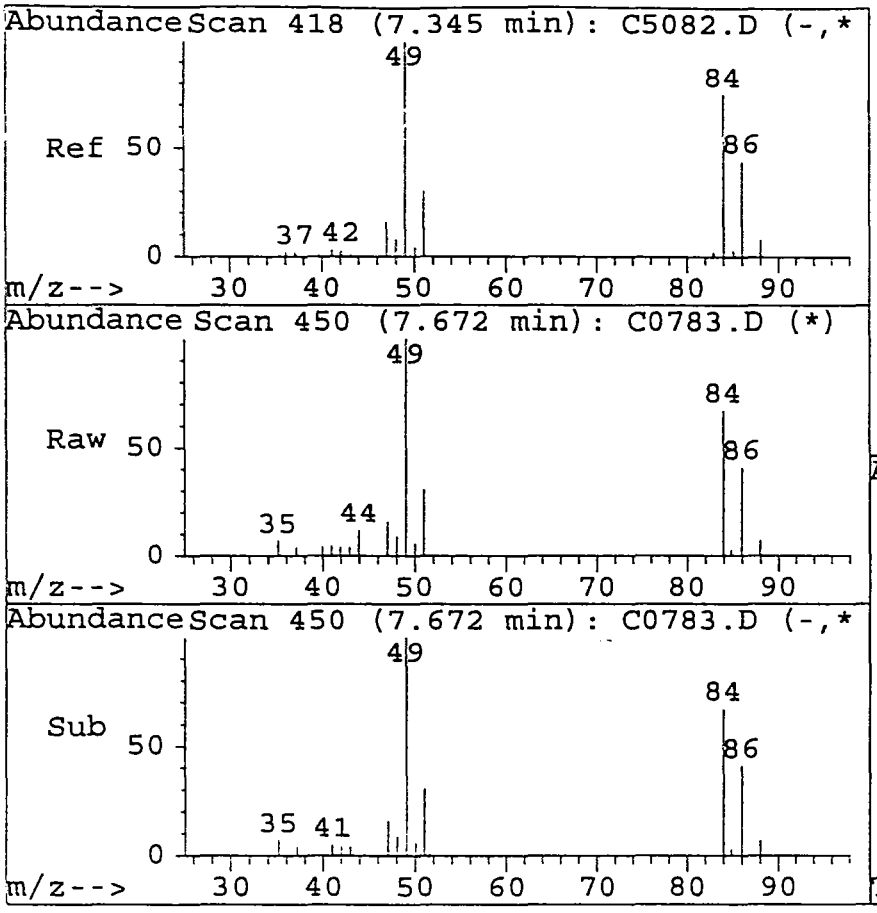
Quantitation Report

Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML
Quant Time: Dec 31 8:35 1995

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration





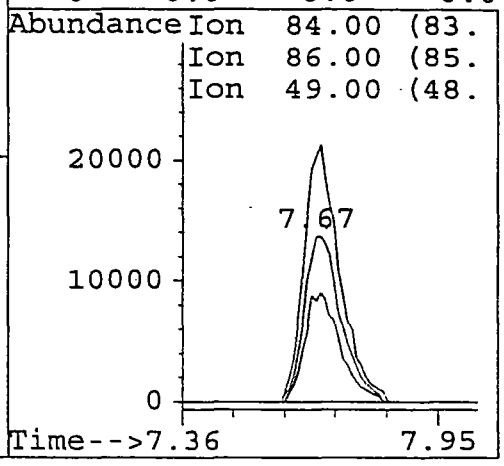
#9
Methylene chloride

106

Concen: 1.40 ug/L
RT: 7.67 min Scan# 450
Delta R.T. -0.08 min
Lab File: c0783.d
Acq: 29 Dec 95 11:14 am

Tgt Ion:84 Resp: 81198

Ion	Ratio	Lower	Upper
84	100		
86	60.9	41.4	81.4
49	148.7	120.0	160.0
0	0.0	0.0	0.0



Library Search Compound Report

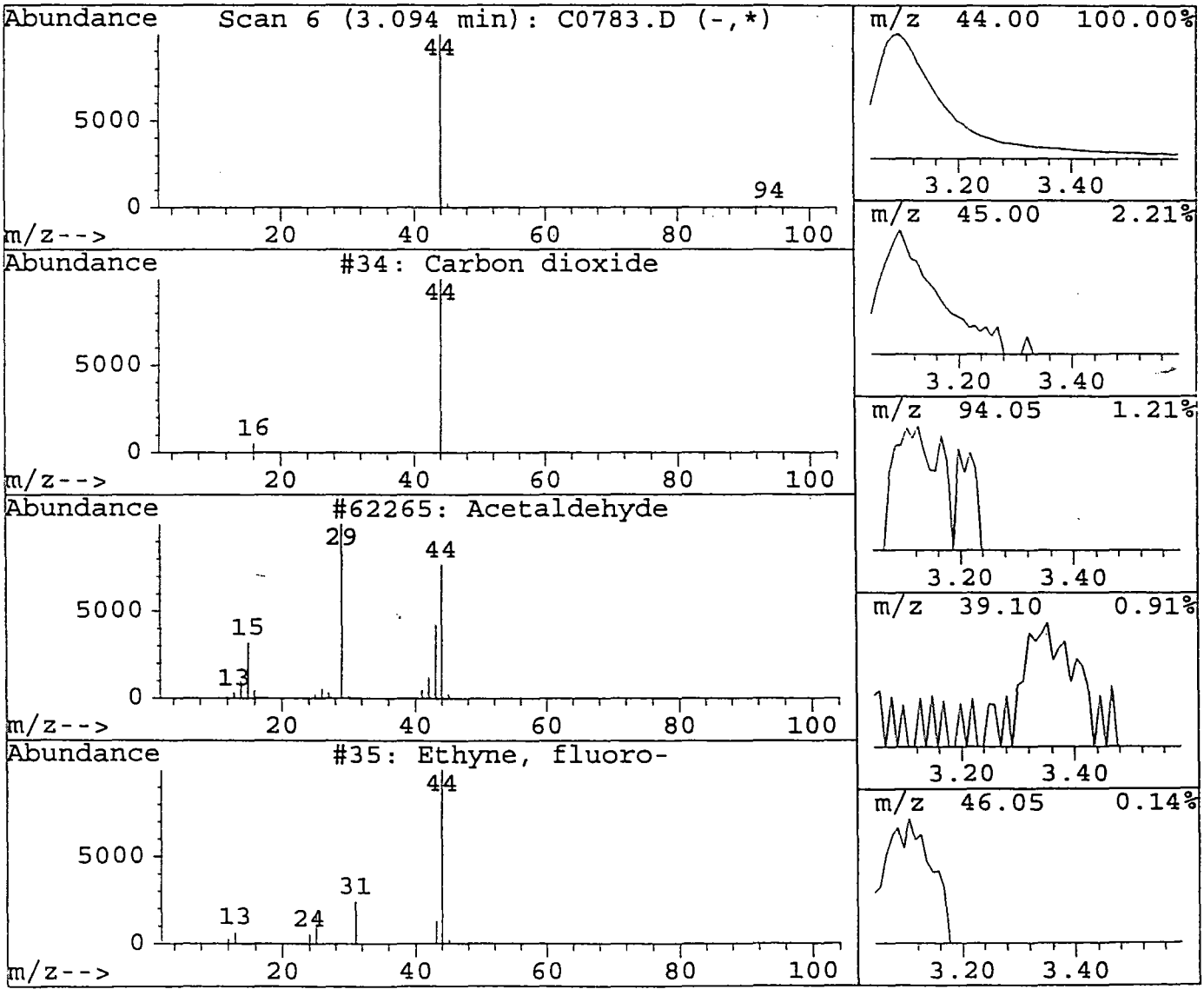
Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.09	3.38 ug/L	1890229	Fluorobenzene	12.07

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	34	000124-38-9	3
2	Acetaldehyde	62265	000075-07-0	3
3	Ethyne, fluoro-	35	002713-09-9	3
4	Ethylene oxide	37	000075-21-8	3
5	Propane	62269	000074-98-6	2



Library Search Compound Report

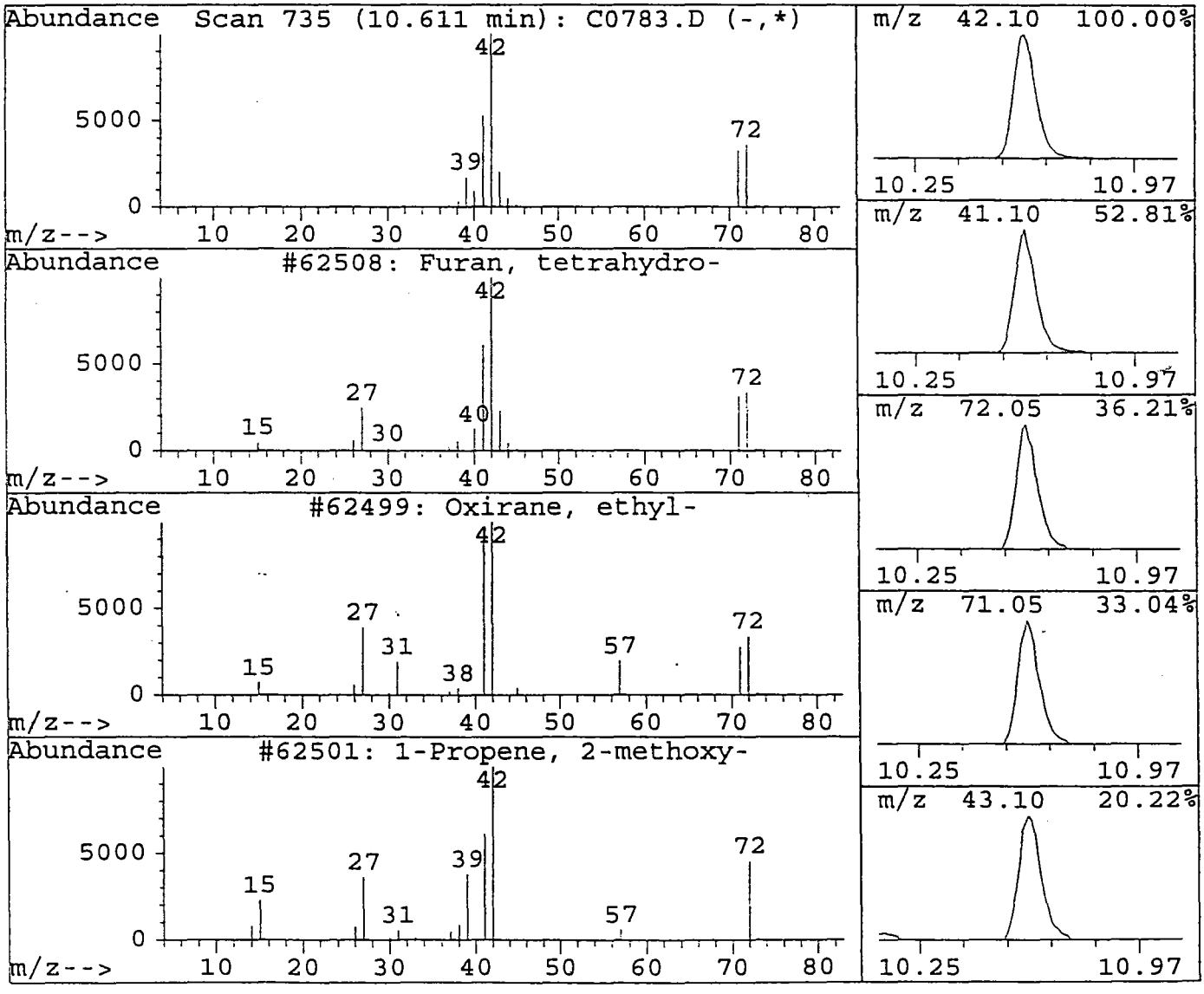
Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
10.61	2.48 ug/L	1383277	Fluorobenzene	12.07

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-	62508	000109-99-9	90
2	Oxirane, ethyl-	62499	000106-88-7	40
3	1-Propene, 2-methoxy-	62501	000116-11-0	38
4	Azetidine, 1-methyl-	246	004923-79-9	4
5	Oxirane, 2,2-dimethyl-	62511	000558-30-5	9



Library Search Compound Report

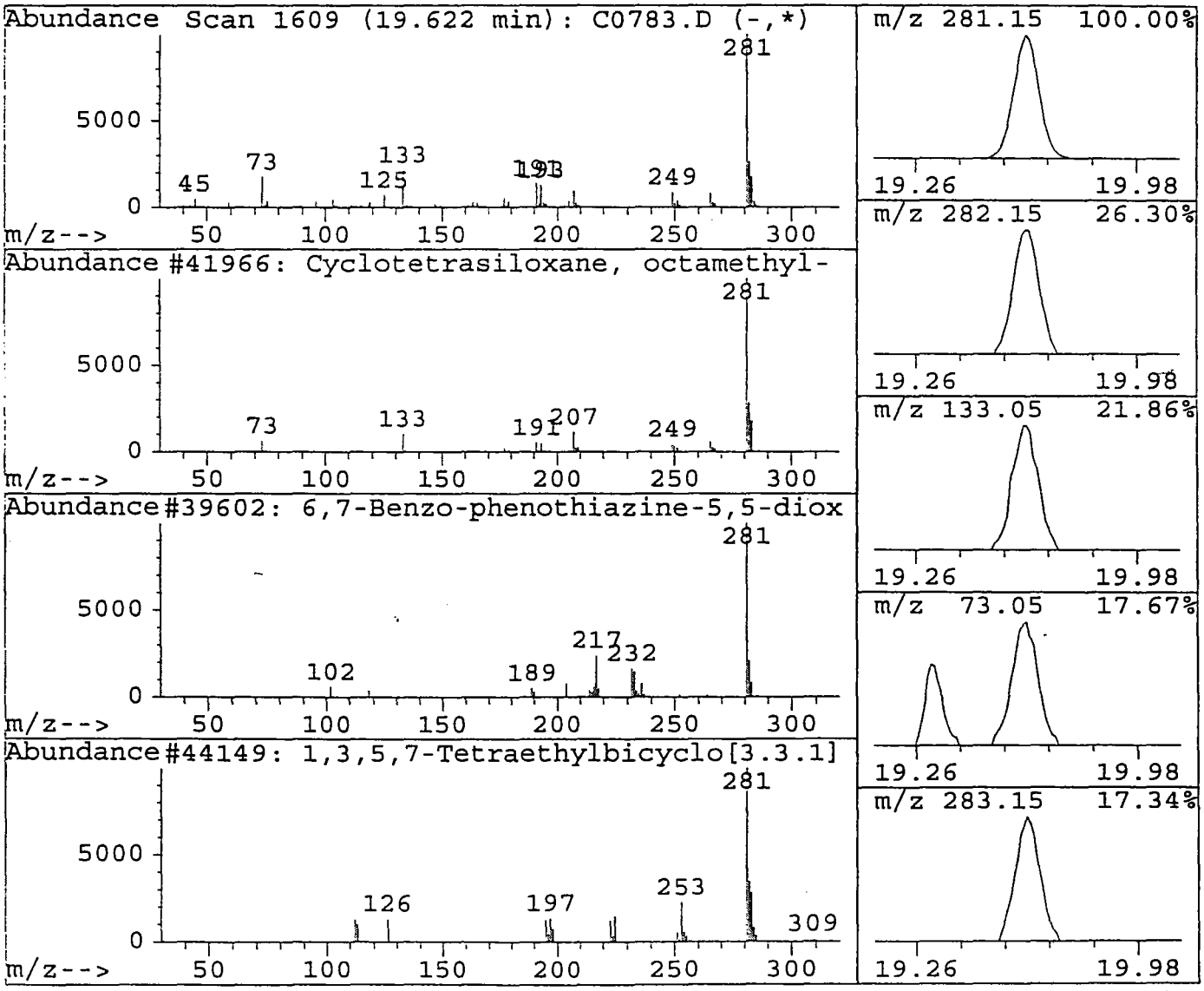
Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.62	1.62 ug/L	902532	Fluorobenzene	12.07

Hit# of 17	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	41966	000556-67-2	72
2	6,7-Benzo-phenothiazine-5,5-dioxide	39602	000000-00-0	9
3	1,3,5,7-Tetraethylbicyclo[3.3.1]tet	44149	073420-21-0	9
4	4-(1-Benzimidazyl)-7-nitro-2,1,3-ox	39560	091485-32-4	9
5	Benzene, 1-phenyl-4-(2-cyano-2-phen	39643	027869-56-3	47



Library Search Compound Report

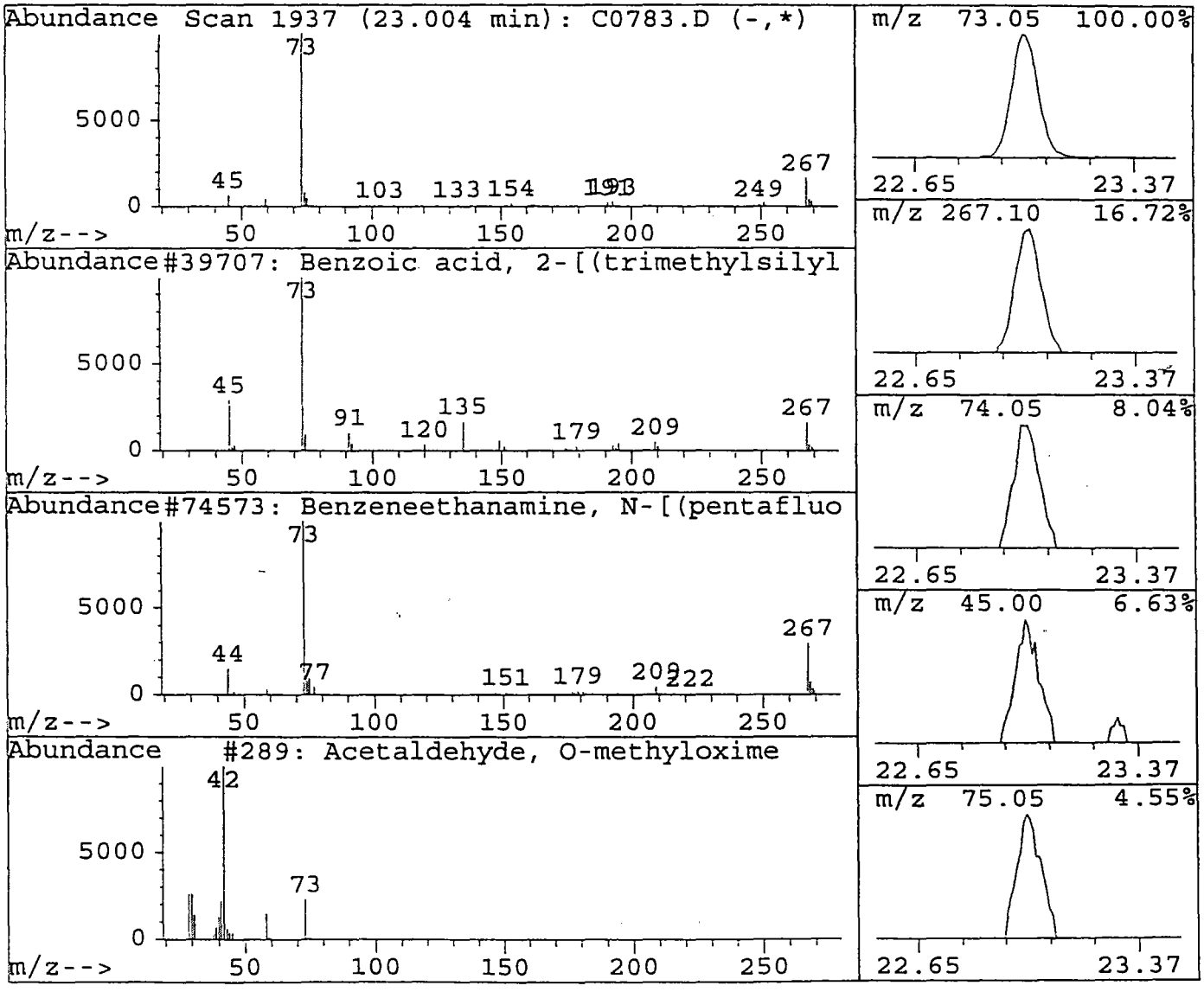
Data File : d:\hpchem\1\data\c0783.d
Acq On : 29 Dec 95 11:14 am
Sample : 9558312 TB
Misc : 25 ML

Vial: 8
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
23.00	1.10 ug/L	615108	Fluorobenzene	12.07

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl)ox	39707	003789-85-3	36
2	Benzeneethanamine, N-[(pentafluorop	74573	055429-85-1	9
3	Acetaldehyde, O-methyloxime	289	033581-43-0	4
4	Trimethylsilyl ether of glycerol	43898	006787-10-6	2
5	N-Ethylformamide	292	000627-45-2	3



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2002.3 FB 111

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	1.4	B
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromomethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 2002.3 FB 112

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No.: FT. MONMOUTH NJ Bldg#: 290 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FMETL# 113

2002.3
f13

Lab Name: EMSL ANALYTICAL Contract: U.S. ARMY

Project No. FT. MONMOUTH NJ Bldg#: _____ NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9558313V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0784.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 109-99-9	Furan, tetrahydro-	10.60	2	J
2.	Column Bleed	19.61	1	J
3.				
4.				
5.				
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Quantitation Report

Data File : d:\hpchem\1\data\c0784.d
Acq On : 29 Dec 95 11:49 am
Sample : 9558313 FB
Misc : 25 ML
Quant Time: Dec 31 8:36 1995

Vial: 9
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.07	96	1334653	5.00	ug/L	-0.07
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.31	95	648486	5.15	ug/L	103.01%
57) 1,2-Dichlorobenzene-d4	22.11	152	383609	5.18	ug/L	103.57%
Target Compounds						Qvalue
9) Methylene chloride	7.67	84	84415	1.44	ug/L	98

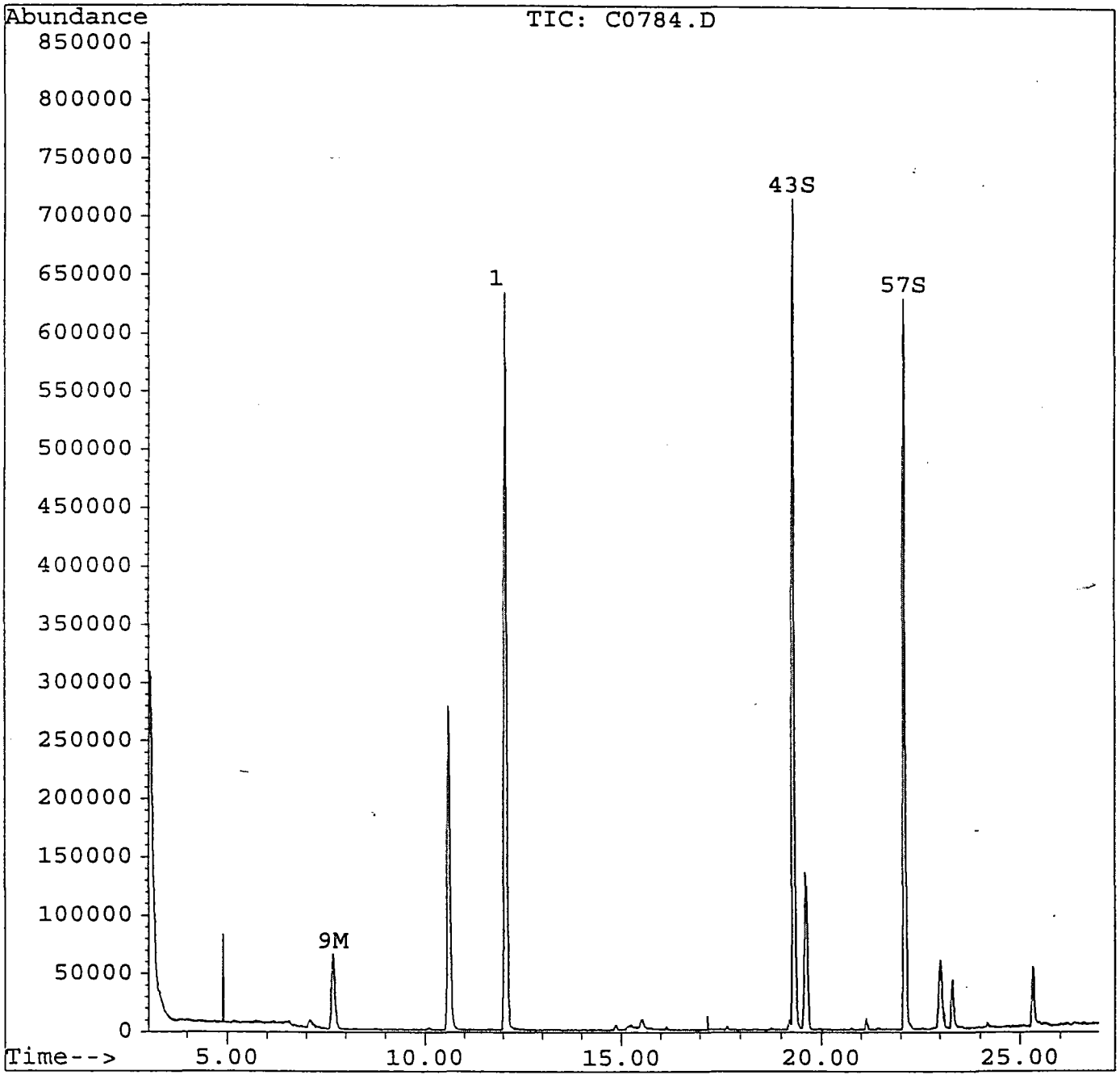
(#) = qualifier out of range (m) = manual integration

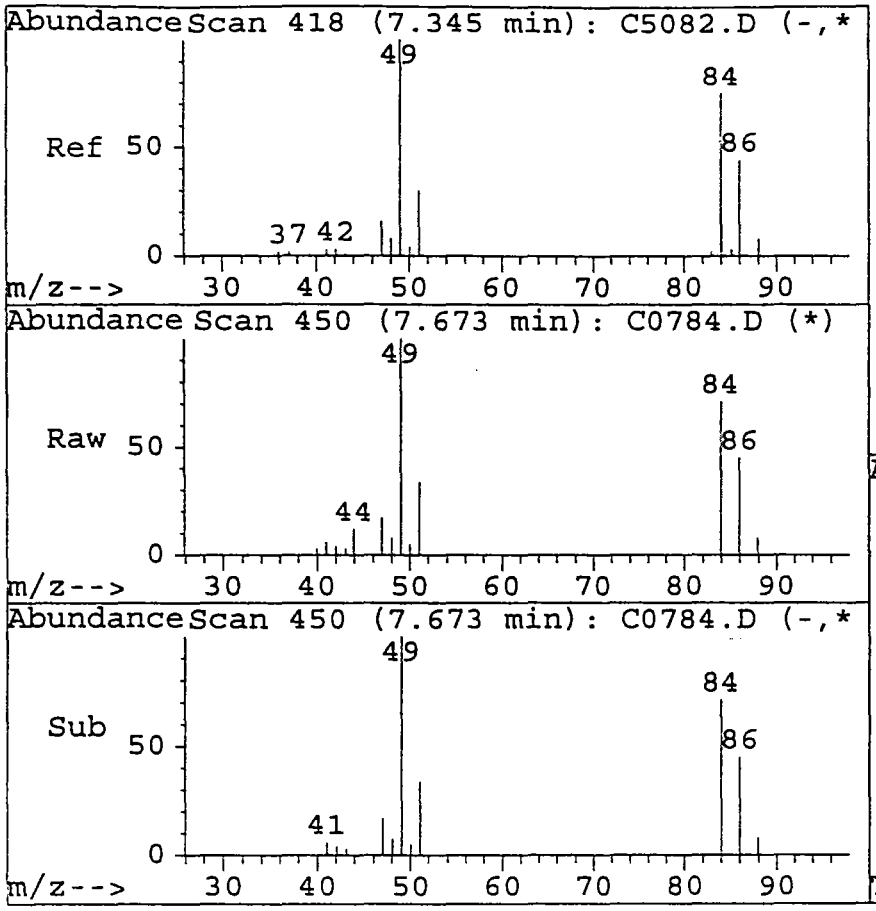
Quantitation Report

Data File : d:\hpchem\1\data\c0784.d
Acq On : 29 Dec 95 11:49 am
Sample : 9558313 FB
Misc : 25 ML
Quant Time: Dec 31 8:36 1995

Vial: 9 115
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

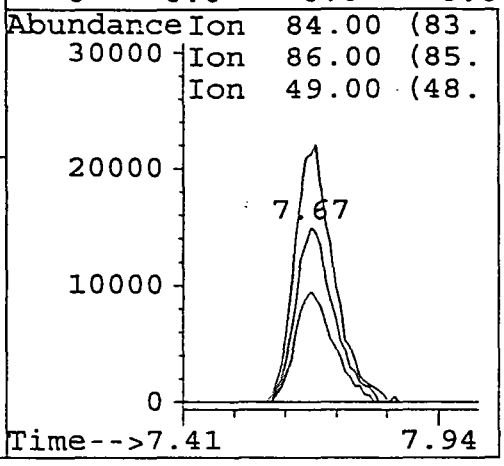




#9
Methylene chloride
Concen: 1.44 ug/L
RT: 7.67 min Scan# 450
Delta R.T. -0.08 min
Lab File: c0784.d
Acq: 29 Dec 95 11:49 am

Tgt Ion:84 Resp: 84415

Ion	Ratio	Lower	Upper
84	100		
86	63.4	41.4	81.4
49	141.8	120.0	160.0
0	0.0	0.0	0.0



Library Search Compound Report

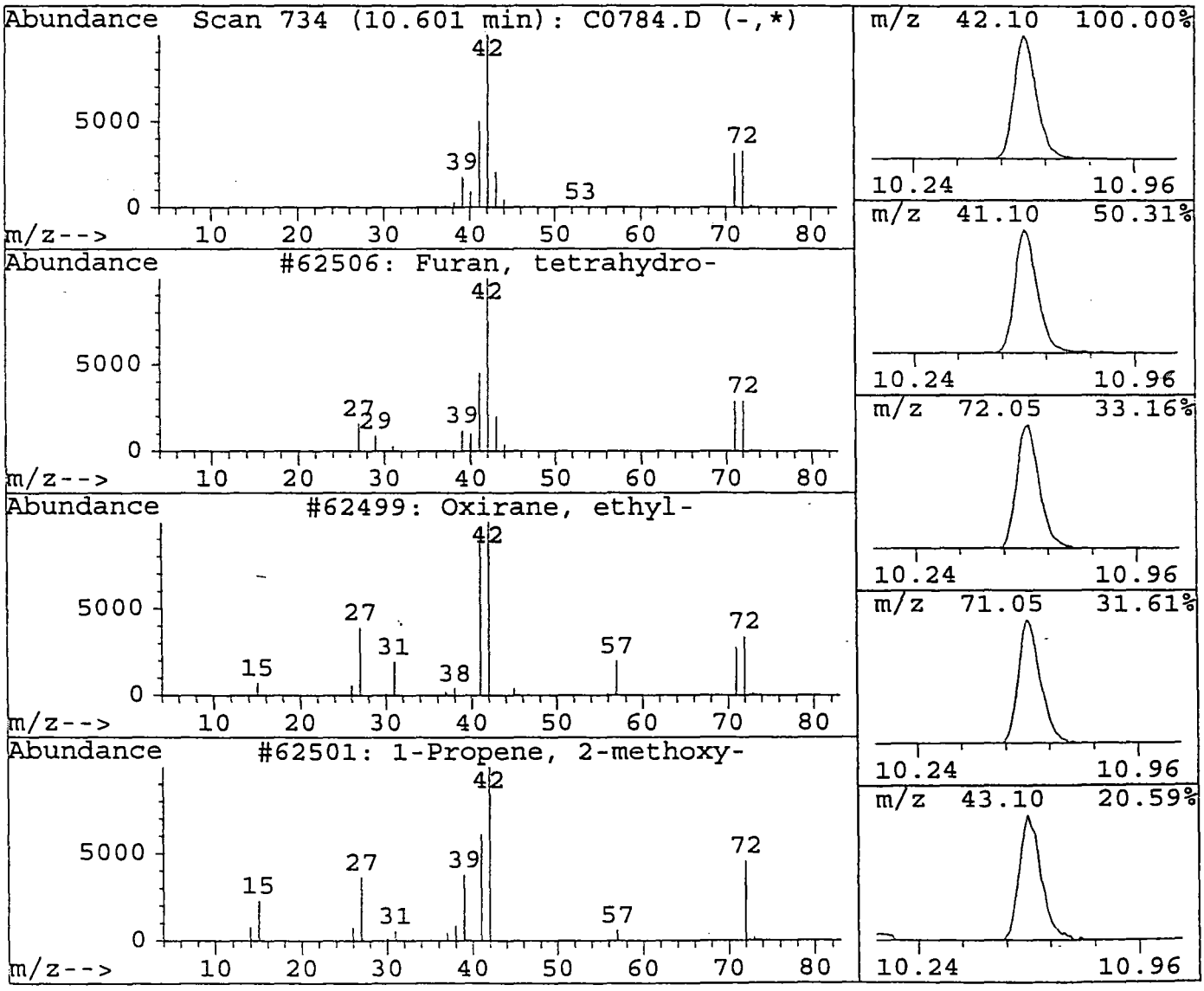
Data File : d:\hpchem\1\data\c0784.d
Acq On : 29 Dec 95 11:49 am
Sample : 9558313 FB
Misc : 25 ML

Vial: 9
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
10.60	2.48 ug/L	1398893	Fluorobenzene	12.07

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-	62506	000109-99-9	90
2	Oxirane, ethyl-	62499	000106-88-7	40
3	1-Propene, 2-methoxy-	62501	000116-11-0	38
4	Oxirane, 2,2-dimethyl-	62511	000558-30-5	43
5	Formaldehyde, dimethylhydrazone	257	002035-89-4	4



Library Search Compound Report

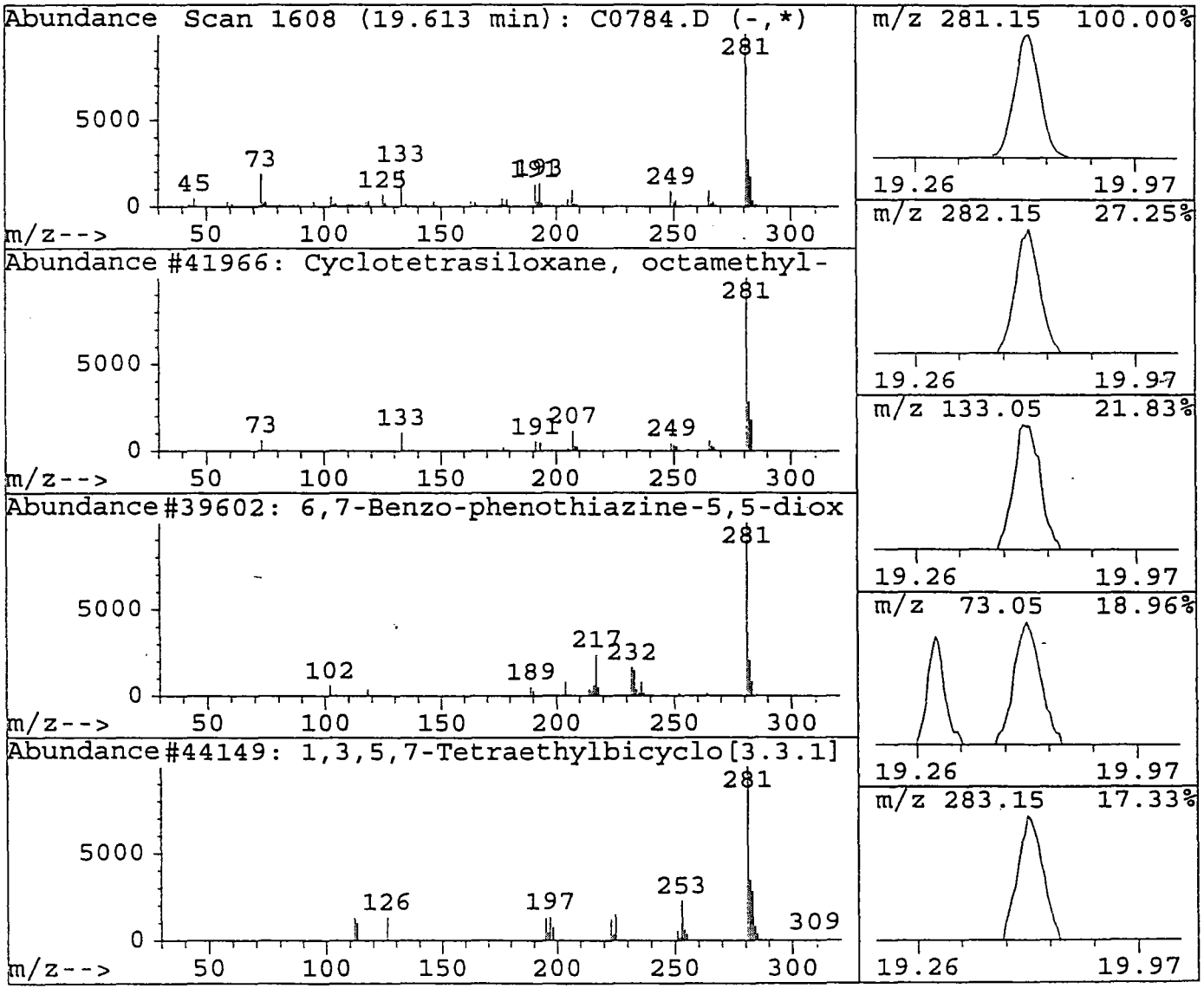
Data File : d:\hpchem\1\data\c0784.d
Acq On : 29 Dec 95 11:49 am
Sample : 9558313 FB
Misc : 25 ML

Vial: 9
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.61	1.05 ug/L	594136	Fluorobenzene	12.07

Hit# of 18	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	41966	000556-67-2	10
2	6,7-Benzo-phenothiazine-5,5-dioxide	39602	000000-00-0	9
3	1,3,5,7-Tetraethylbicyclo[3.3.1]tet	44149	073420-21-0	4
4	4-(1-Benzimidazyl)-7-nitro-2,1,3-ox	39560	091485-32-4	5
5	Benzene, 1-phenyl-4-(2-cyano-2-phen	39643	027869-56-3	47



2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

	SAMPLE NO.	SMC1 (BFB) #	SMC2 (DCB) #	#	OTHER #	TOT OUT
01	VBLK01	104	105			
02	9557856V	103	105			
03	9557857V	102	104			
04	9558188V	108	107			
05	9558189V	103	105			
06	9558190V	105	107			
07	9558191V	100	103			
08	9558192V	100	102			
09	9558196V	101	105			
10	9558197V	102	105			
11	9558195V	103	105			
12	9557856MS	102	105			
13	9557856MSD	102	104			
14	10 QCS	99	101			
15	1 STND	101	105			
16						
17						
18						
19						
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	QC LIMITS
SMC1 (BFB) = 4-Bromofluorobenzene	(80-120)
SMC2 (DCB) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

120

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

	SAMPLE NO.	SMC1 (BFB) #	SMC2 (DCB) #	#	OTHER #	TOT OUT
01	VBLK01	102	104			
02	9558500V	104	106			
03	9558501V	104	104			
04	9558191V	105	108			
05	9558192V	103	105			
06	9558312V	103	104			
07	9558313V	103	104			
08	9558311V	104	103			
09	9558314V	111	103			
10	9558315V	106	107			
11	9558316V	101	104			
12	9558317V	112	110			
13	9559346V	118	107			
14	9558196V	102	105			
15	1 STND	104	106			
16						
17						
18						
19						
20						
21						
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23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (BFB) = 4-Bromofluorobenzene (80-120)

SMC2 (DCB) = 1,2-Dichlorobenzene-d4 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO. 121

VBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: C0697.D Lab Sample ID: M. BLANK

Date Analyzed: 12/26/95 Time Analyzed: 1741

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-INSTRU

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	9557856V	9557856V	C0698.D	1815
02	9557857V	9557857V	C0699.D	1850
03	9558188V	9558188V	C0700.D	1924
04	9558189V	9558189V	C0701.D	1958
05	9558190V	9558190V	C0702.D	2032
06	9558191V	9558191V	C0703.D	2107
07	9558192V	9558192V	C0704.D	2141
08	9558196V	9558196V	C0705.D	2215
09	9558197V	9558197V	C0706.D	2250
10	9558195V	9558195V	C0707.D	2324
11	9557856MS	57856MS	C0708.D	2358
12	9557856MSD	57856MSD	C0709.D	0032
13	10 QCS	10 QCS	C0710.D	0107
14	1 STND	1 STND	C0711.D	0141
15				
16				
17				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0697.D

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. NA Date Analyzed: 12/26/95

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	.50	U
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromoethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 123

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0697.D

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. NA Date Analyzed: 12/26/95

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. 124

VBLK01

Lab Name: EMSL ANALYTICAL Contract:

Project No. Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0697.D

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. NA Date Analyzed: 12/26/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	NONE FOUND			
2.				
3.				
4.				
5.				
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Quantitation Report

Data File : d:\hpchem\1\data\c0697.d
Acq On : 26 Dec 95 5:41 pm
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 27 13:36 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.14	96	1394456	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.37	95	683004	5.19	ug/L	103.84%
57) 1,2-Dichlorobenzene-d4	22.17	152	407809	5.27	ug/L	105.39%
Target Compounds						Qvalue

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

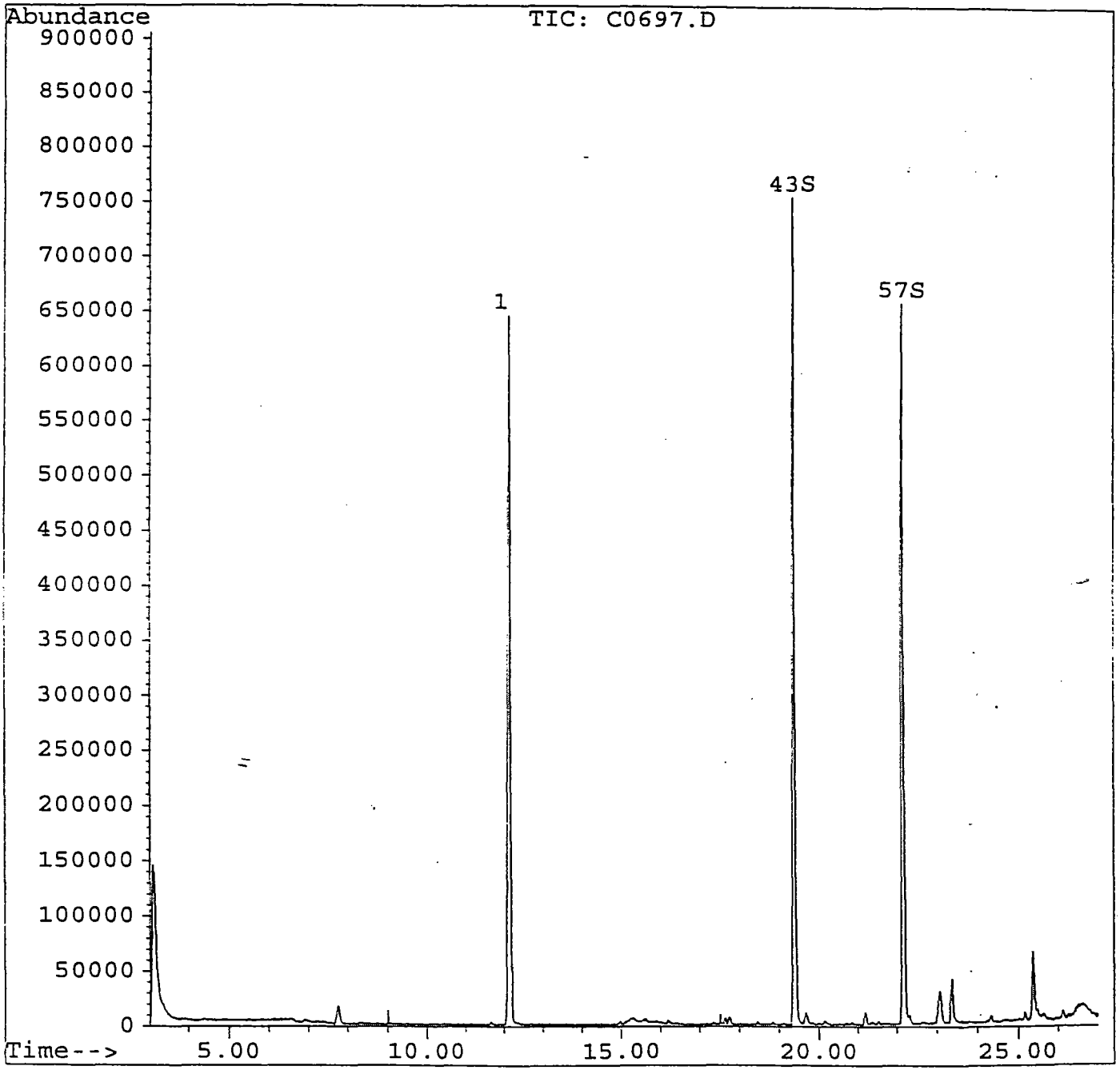
Quantitation Report

126

Data File : d:\hpchem\1\data\c0697.d
Acq On : 26 Dec 95 5:41 pm
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 27 13:36 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



Library Search Compound Report

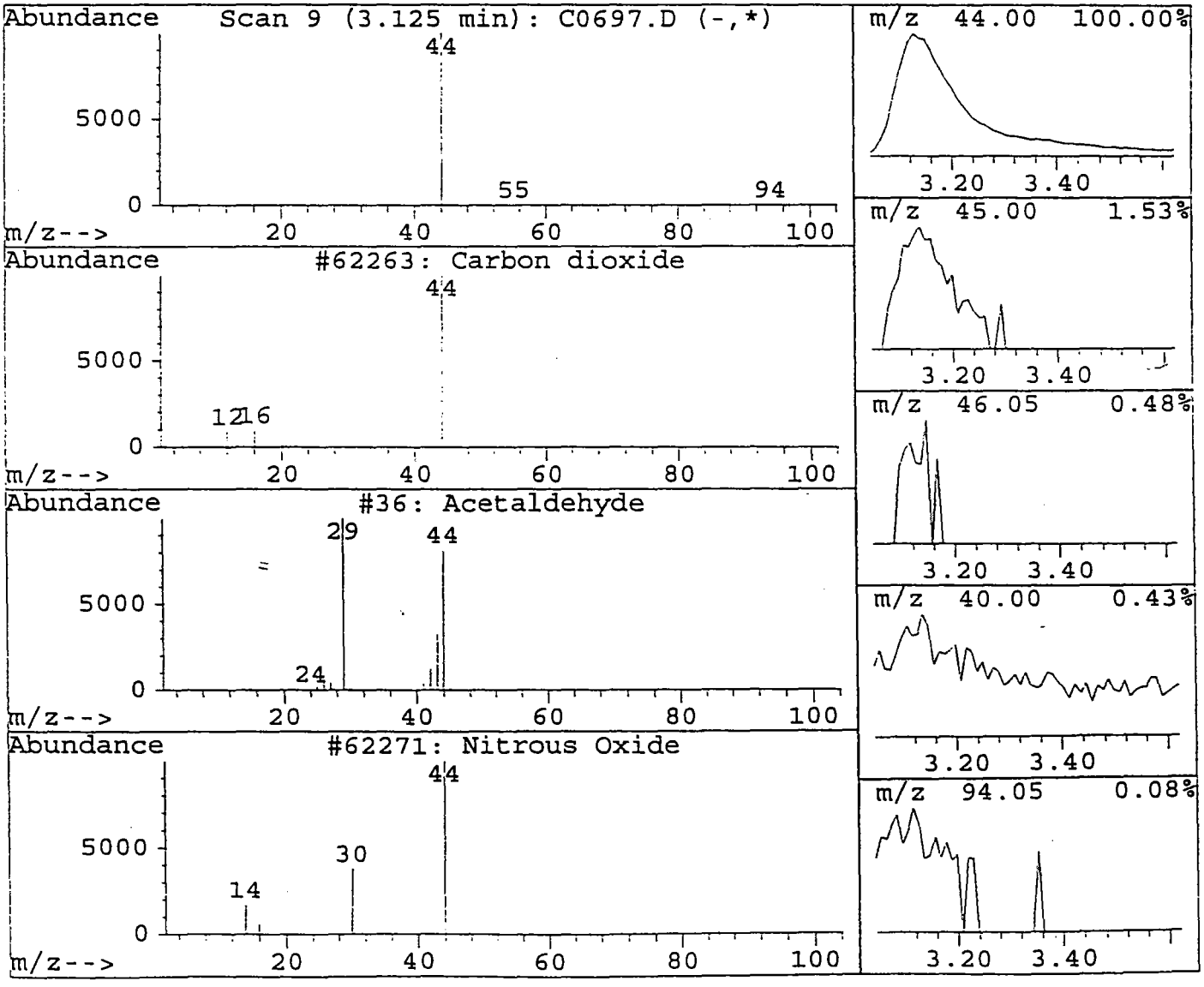
Data File : d:\hpchem\1\data\c0697.d
Acq On : 26 Dec 95 5:41 pm
Sample : METHOD BLANK
Misc : 25 ML

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.13	1.49 ug/L	861401	Fluorobenzene	12.14

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	62263	000124-38-9	4
2	Acetaldehyde	36	000075-07-0	3
3	Nitrous Oxide	62271	010024-97-2	3
4	Ethyne, fluoro-	35	002713-09-9	2
5	Cyclopropane, 1,1-dibromo-2-chloro-	33732	024071-57-6	2



4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK01

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Lab File ID: C0778.D Lab Sample ID: M. BLANK

Date Analyzed: 12/29/95 Time Analyzed: 0821

GC Column: DB-624 X 75M ID: 0.53 (mm) Heated Purge: (Y/N)

Instrument ID: 5972-INSTRU

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	9558500V	9558500V	C0779.D	0856
02	9558501V	9558501V	C0780.D	0931
03	9558191V	9558191V	C0781.D	1005
04	9558192V	9558192V	C0782.D	1040
05	9558312V	9558312V	C0783.D	1114
06	9558313V	9558313V	C0784.D	1149
07	9558311V	9558311V	C0785.D	1223
08	9558314V	9558314V	C0786.D	1257
09	9558315V	9558315V	C0787.D	1332
10	9558316V	9558316V	C0788.D	1406
11	9558317V	9558317V	C0789.D	1440
12	9559346V	9559346V	C0790.D	1514
13	9558196V	9558196V	C0791.D	1549
14	1 STND	1 STND	C0792.D	1623
15				
16				
17				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0778.D

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	.50	U
74-87-3	Chloromethane	.50	U
75-01-4	Vinyl chloride	.50	U
74-83-9	Bromomethane	.50	U
75-00-3	Chloroethane	.50	U
75-69-4	Trichlorofluoromethane	.50	U
75-35-4	1,1-Dichloroethene	.50	U
75-09-2	Methylene chloride	.90	
156-60-65	trans-1,2-Dichloroethene	.50	U
75-34-3	1,1-Dichloroethane	.50	U
594-20-7	2,2-Dichloropropane	.50	U
156-59-2	cis-1,2-Dichloroethene	.50	U
74-97-1	Bromochloromethane	.50	U
67-66-3	Chloroform	.50	U
71-55-6	1,1,1-Trichloroethane	.50	U
56-23-1	Carbon tetrachloride	.50	U
563-58-6	1,1-Dichloropropene	.50	U
71-43-2	Benzene	.50	U
107-06-2	1,2-Dichloroethane	.50	U
79-01-6	Trichloroethene	.50	U
78-87-1	1,2-Dichloropropane	.50	U
74-95-3	Dibromomethane	.50	U
75-27-4	Bromodichloromethane	.50	U
10061-01-1	cis-1,3-Dichloropropene	.50	U
108-88-3	Toluene	.50	U
10061-02-6	trans-1,3-Dichloropropene	.50	U
79-00-1	1,1,2-Trichloroethane	.50	U
127-18-4	Tetrachloroethene	.50	U
142-28-9	1,3-Dichloropropane	.50	U
124-48-1	Dibromochloromethane	.50	U
106-93-4	1,2-Dibromoethane	.50	U
108-90-7	Chlorobenzene	.50	U
630-20-6	1,1,1,2-Tetrachloroethane	.50	U

SAMPLE NO. 130

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0778.D

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. NA Date Analyzed: 12/29/96

GC Column: DB-624 x 75m ID: 0.53 (mm) Dilution Factor: 1.0

Concentration Units:
(ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
100-41-4	Ethylbenzene	.50	U
1330-29-7	Xylene (total)	.50	U
100-42-1	Styrene	.50	U
75-25-2	Bromoform	.50	U
98-82-8	Isopropylbenzene	.50	U
108-86-1	Bromobenzene	.50	U
79-34-1	1,1,2,2-Tetrachloroethane	.50	U
96-18-4	1,2,3-Trichloropropane	.50	U
103-65-1	n-Propylbenzene	.50	U
95-49-8	2-Chlorotoluene	.50	U
106-43-4	4-Chlorotoluene	.50	U
108-67-8	1,3,5-Trimethylbenzene	.50	U
98-06-6	tert-Butylbenzene	.50	U
95-63-6	1,2,4-Trimethylbenzene	.50	U
135-98-8	sec-Butylbenzene	.50	U
541-73-1	1,3-Dichlorobenzene	.50	U
99-87-6	4-Isopropyltoluene	.50	U
106-46-7	1,4-Dichlorobenzene	.50	U
95-50-1	1,2-Dichlorobenzene	.50	U
104-51-8	n-Butylbenzene	.50	U
96-12-8	1,2-Dibromo-3-chloropropane	.50	U
120-82-1	1,2,4-Trichlorobenzene	.50	U
87-68-3	Hexachlorobutadiene	.50	U
91-20-3	Naphthalene	.50	U
87-61-6	1,2,3-Trichlorobenzene	.50	U
1634-04-4	Methy-tertiary butyl ether	.50	U
75-65-0	tertiary-Butyl alcohol	2.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. 131

VBLK01

Lab Name: EMSL ANALYTICAL Contract:

Project No. Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: M. BLANK

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0778.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. NA Date Analyzed: 12/29/95

GC Column: DB-624 X 75M ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

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

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	NONE FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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Quantitation Report

Data File : d:\hpchem\1\data\c0778.d
Acq On : 29 Dec 95 8:21 am
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 31 8:27 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.06	96	1420918	5.00	ug/L	-0.07
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.31	95	683281	5.10	ug/L	101.94%
57) 1,2-Dichlorobenzene-d4	22.11	152	408458	5.18	ug/L	103.59%
Target Compounds						Qvalue
9) Methylene chloride	7.67	84	58341	0.93	ug/L	99

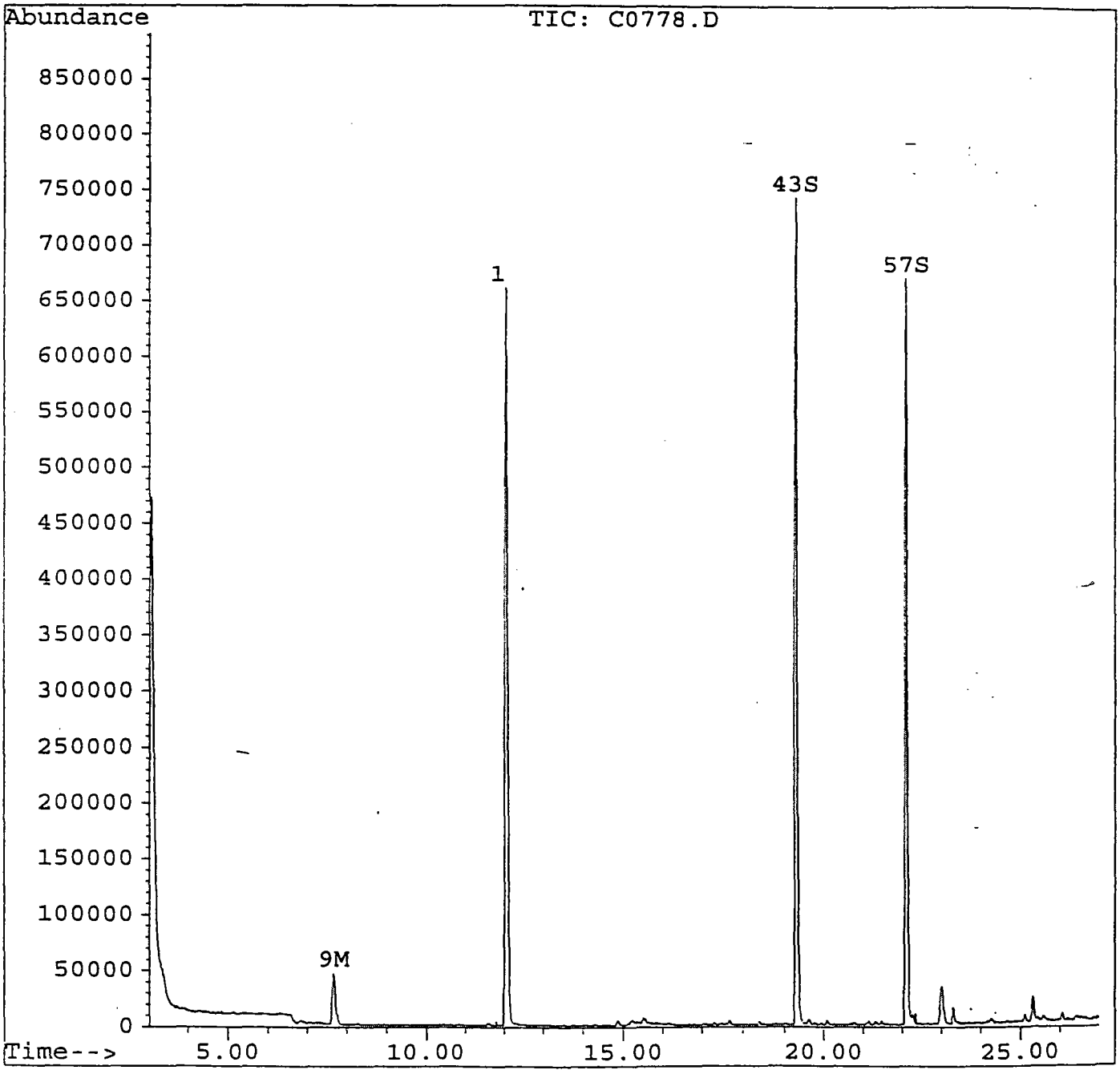
(#) = qualifier out of range (m) = manual integration

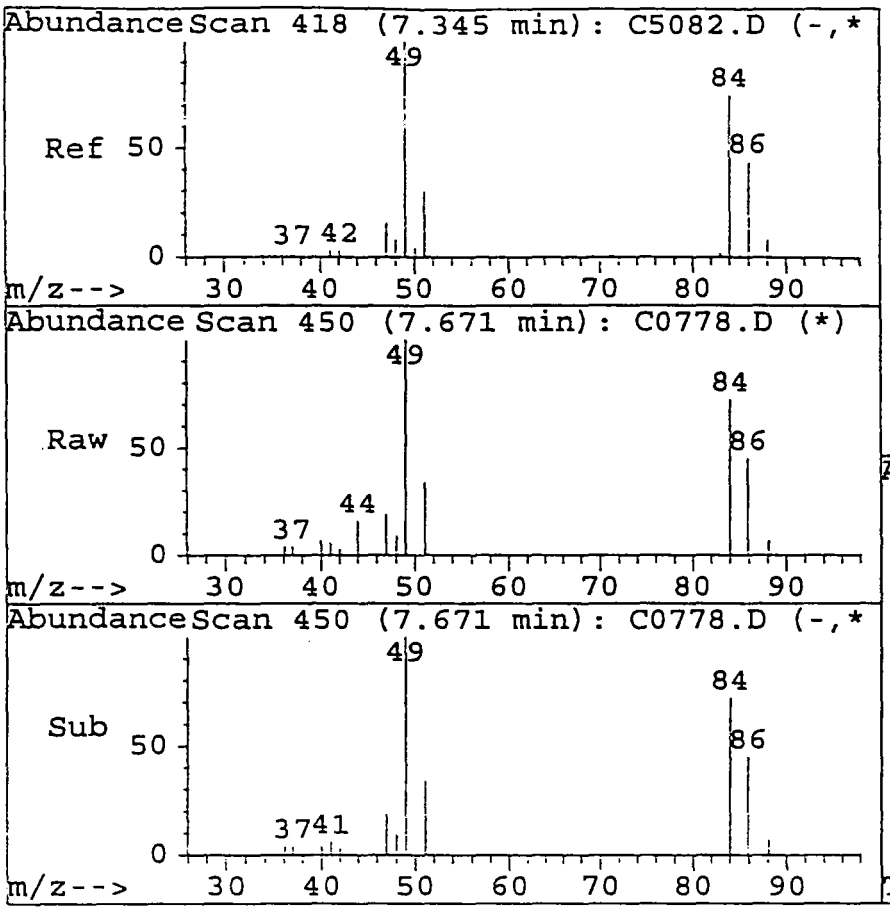
Quantitation Report

Data File : d:\hpchem\1\data\c0778.d
Acq On : 29 Dec 95 8:21 am
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 31 8:27 1995

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

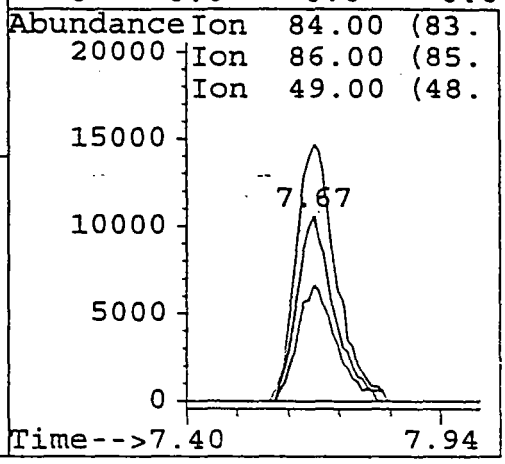




#9
Methylene chloride
Concen: 0.93 ug/L
RT: 7.67 min Scan# 450
Delta R.T. -0.08 min
Lab File: c0778.d
Acq: 29 Dec 95 8:21 am

Tgt Ion:84 Resp: 58341

Ion	Ratio	Lower	Upper
84	100		
86	62.6	41.4	81.4
49	138.4	120.0	160.0
0	0.0	0.0	0.0



Library Search Compound Report

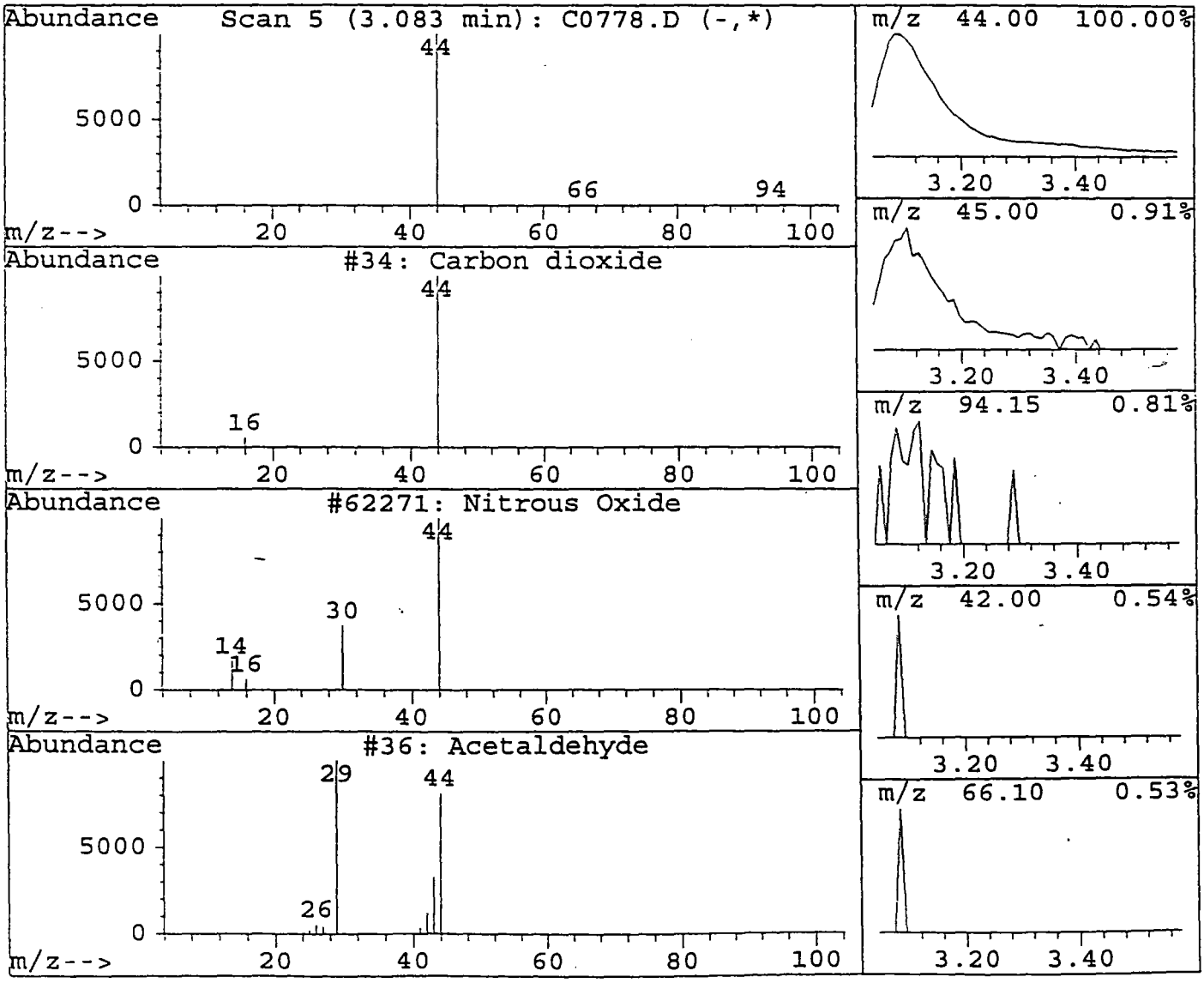
Data File : d:\hpchem\1\data\c0778.d
Acq On : 29 Dec 95 8:21 am
Sample : METHOD BLANK
Misc : 25 ML

Vial: 3
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
3.08	4.26 ug/L	2533529	Fluorobenzene	12.06

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	34	000124-38-9	4
2	Nitrous Oxide	62271	010024-97-2	3
3	Acetaldehyde	36	000075-07-0	2
4	Carbamic acid, monoammonium salt	391	001111-78-0	2
5	Cyclopropane, 1,1-dibromo-2-chloro-	33732	024071-57-6	2



Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Initial Calibration

Non-Spiked Sample: C0698.D

	Spike Sample	Spike Duplicate Sample
File ID :	C0708.D	C0709.D
Sample :	9557856 MS	9557856 MSD
Acq Time:	26 Dec 95 11:58 pm	27 Dec 95 12:32 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Dichlorodifluorometh	0.0	10	9	8	85	82	3	25	80-120
Chloromethane	0.0	10	8	8	84	84	0	25	80-120
Vinyl chloride	0.0	10	10	9	95	92	3	25	80-120
Bromomethane	0.0	10	11	12	111	119	7	25	80-120
Chloroethane	0.0	10	11	11	108	105	3	25	80-120
Trichlorofluorometha	0.0	10	10	10	97	97	0	25	80-120
1,1-Dichloroethene	0.0	10	10	10	99	98	1	25	80-120
Methylene chloride	0.6	10	9	9	86	85	2	25	80-120
trans-1,2-Dichloroet	0.0	10	10	10	101	101	0	25	80-120
1,1-Dichloroethane	0.0	10	10	10	102	101	1	25	80-120
2,2-Dichloropropane	0.0	10	9	9	90	89	2	25	80-120
cis-1,2-Dichloroethe	0.0	10	10	10	104	104	0	25	80-120
Bromochloromethane	0.0	10	10	10	104	104	0	25	80-120
Chloroform	0.0	10	10	10	102	102	0	25	80-120
1,1,1-Trichloroethan	0.0	10	10	10	100	99	1	25	80-120
Carbon tetrachloride	0.0	10	10	10	101	101	0	25	80-120
1,1-Dichloropropene	0.0	10	10	10	100	98	3	25	80-120
Benzene	0.0	10	10	10	102	102	0	25	80-120
1,2-Dichloroethane	0.0	10	11	11	107	105	1	25	80-120
Trichloroethene	0.0	10	10	10	102	102	1	25	80-120
1,2-Dichloropropane	0.0	10	10	10	104	104	1	25	80-120
Dibromomethane	0.0	10	10	10	104	102	2	25	80-120
Bromodichloromethane	0.0	10	10	10	104	103	1	25	80-120
cis-1,3-Dichloroprop	0.0	10	10	10	103	101	2	25	80-120
Toluene	0.0	10	10	10	99	98	1	25	80-120
trans-1,3-Dichloropr	0.0	10	10	10	103	100	3	25	80-120
1,1,2-Trichloroethan	0.0	10	11	10	106	103	3	25	80-120
Tetrachloroethene	0.0	10	10	10	102	102	1	25	80-120
1,3-Dichloropropane	0.0	10	11	10	106	103	3	25	80-120
Dibromochloromethane	0.0	10	11	10	106	104	2	25	80-120
1,2-Dibromoethane	0.0	10	11	10	107	104	3	25	80-120
Chlorobenzene	0.0	10	10	11	105	106	1	25	80-120
1,1,1,2-Tetrachloroe	0.0	10	11	11	114	106	7	25	80-120
Ethylbenzene	0.0	10	10	10	100	99	1	25	80-120
Xylene (para & meta)	0.0	20	20	18	99	92	7	25	80-120
Xylene (Ortho)	0.0	10	10	9	101	93	7	25	80-120
Styrene	0.0	10	10	8	98	83	16	25	80-120
Bromoform	0.0	10	10	10	100	98	2	25	80-120
Isopropylbenzene	0.0	10	10	10	101	101	1	25	80-120
Bromobenzene	0.0	10	11	11	106	107	0	25	80-120
1,1,2,2-Tetrachloroe	0.0	10	11	10	106	104	2	25	80-120
1,2,3-Trichloropropa	0.0	10	11	11	108	106	1	25	80-120

-Chlorotoluene	0.0	10	9	10	94	97	2	25	80-120
-Chlorotoluene	0.0	10	10	10	103	102	1	25	80-120
1,3,5-Trimethylbenze	0.0	10	10	8	96	84	13	25	80-120
ert-Butylbenzene	0.0	10	11	11	111	110	1	25	80-120
,2,4-Trimethylbenze	0.0	10	10	8	97	80	19	25	80-120
sec-Butylbenzene	0.0	10	10	10	102	101	0	25	80-120
1,3-Dichlorobenzene	0.0	10	11	11	105	106	1	25	80-120
-Isopropyltoluene	0.0	10	10	10	101	96	5	25	80-120
1,4-Dichlorobenzene	0.0	10	10	11	104	109	4	25	80-120
1,2-Dichlorobenzene	0.0	10	11	11	107	106	0	25	80-120
-Butylbenzene	0.0	10	10	10	102	100	1	25	80-120
,2-Dibromo-3-chloro	0.0	10	10	10	101	99	2	25	80-120
1,2,4-Trichlorobenze	0.0	10	10	10	103	104	1	25	80-120
Hexachlorobutadiene	0.0	10	10	10	100	100	0	25	80-120
Naphthalene	0.9	10	12	12	108	107	1	25	80-120
1,2,3-Trichlorobenze	0.0	10	10	11	105	105	1	25	80-120

VOA524.M -- Thu Dec 28 09:02:38 1995 VOA

Quantitation Report

Data File : d:\hpchem\1\data\c0708.d
Acq On : 26 Dec 95 11:58 pm
Sample : 9557856 MS
Misc : 25 ML
Quant Time: Dec 27 14:28 1995

Vial: 14
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.14	96	1289903	5.00	ug/L	0.00
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.38	95	621347	5.11	ug/L	102.12%
57) 1,2-Dichlorobenzene-d4	22.17	152	377524	5.27	ug/L	105.47%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.48	85	454768	8.59	ug/L	100
3) Chloromethane	3.89	50	436370	8.39	ug/L	97
4) Vinyl chloride	4.11	62	526351	9.52	ug/L	100
5) Bromomethane	4.79	94	346632	11.09	ug/L	96
6) Chloroethane	5.04	64	364082	10.84	ug/L	99
7) Trichlorofluoromethane	5.64	101	943265	9.71	ug/L	99
8) 1,1-Dichloroethene	6.76	96	598365	9.90	ug/L	95
9) Methylene chloride	7.76	84	524096	9.25	ug/L	95
10) trans-1,2-Dichloroethene	8.29	96	696270	10.10	ug/L	98
12) 1,1-Dichloroethane	9.08	63	1302738	10.16	ug/L	99
13) 2,2-Dichloropropane	10.14	77	951129	9.07	ug/L	98
14) cis-1,2-Dichloroethene	10.15	96	680168	10.39	ug/L	98
16) Bromochloromethane	10.57	128	263775	10.38	ug/L	97
17) Chloroform	10.71	83	1152833	10.18	ug/L	100
18) 1,1,1-Trichloroethane	11.02	97	1152279	10.00	ug/L	99
19) Carbon tetrachloride	11.32	117	1056508	10.14	ug/L	99
20) 1,1-Dichloropropene	11.31	75	1072549	10.01	ug/L	99
21) Benzene	11.66	78	2267277	10.26	ug/L	99
22) 1,2-Dichloroethane	11.69	62	446648	10.65	ug/L	100
23) Trichloroethene	12.77	95	914222	10.17	ug/L	99
24) 1,2-Dichloropropane	13.14	63	766848	10.44	ug/L	99
25) Dibromomethane	13.34	93	303491	10.44	ug/L	98
26) Bromodichloromethane	13.60	83	915060	10.41	ug/L	97
27) cis-1,3-Dichloropropene	14.35	75	831476	10.31	ug/L	100
28) Toluene	14.93	92	1595567	9.91	ug/L	99
29) trans-1,3-Dichloropropene	15.29	75	550786	10.34	ug/L	100
30) 1,1,2-Trichloroethane	15.61	83	301325	10.64	ug/L	97
31) Tetrachloroethene	15.88	166	1074633	10.17	ug/L	98
32) 1,3-Dichloropropane	15.90	76	583576	10.61	ug/L	100
33) Dibromochloromethane	16.30	129	590105	10.64	ug/L	97
34) 1,2-Dibromoethane	16.51	107	431194	10.73	ug/L	99
35) Chlorobenzene	17.35	112	1781113	10.47	ug/L	99
36) 1,1,1,2-Tetrachloroethane	17.50	131	778509	11.40	ug/L	97
37) Ethylbenzene	17.54	91	3222686	10.07	ug/L	100
38) Xylene (para & meta)	17.74	106	2410170	19.74	ug/L	98
39) Xylene (Ortho)	18.45	106	1102810	10.07	ug/L	97
40) Styrene	18.47	104	1585439	9.81	ug/L	100

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

Quantitation Report

Data File : d:\hpchem\1\data\c0708.d
Acq On : 26 Dec 95 11:58 pm
Sample : 9557856 MS
Misc : 25 ML
Quant Time: Dec 27 14:28 1995

Vial: 14
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.81	173	308571	10.01	ug/L		98
42)	Isopropylbenzene	19.10	105	3153419	10.11	ug/L	m	0
44)	Bromobenzene	19.66	156	757517	10.62	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.62	83	387323	10.62	ug/L		98
46)	1,2,3-Trichloropropane	19.69	75	380382	10.92	ug/L	#	39
47)	n-Propylbenzene	19.83	91	4308873	9.99	ug/L		93
48)	2-Chlorotoluene	20.00	91	2358529	9.46	ug/L		92
49)	4-Chlorotoluene	20.19	91	2755759	10.32	ug/L		99
50)	1,3,5-Trimethylbenzene	20.15	105	2528574	9.58	ug/L		99
51)	tert-Butylbenzene	20.75	119	3090275	11.12	ug/L		99
52)	1,2,4-Trimethylbenzene	20.83	105	2499382	9.75	ug/L		99
53)	sec-Butylbenzene	21.14	105	4256632	10.18	ug/L		99
54)	1,3-Dichlorobenzene	21.37	146	1498472	10.50	ug/L		98
55)	4-Isopropyltoluene	21.41	119	3342037	10.14	ug/L		99
56)	1,4-Dichlorobenzene	21.52	146	1441758	10.44	ug/L		99
58)	1,2-Dichlorobenzene	22.21	146	1156268	10.65	ug/L		97
59)	n-Butylbenzene	22.15	91	3476871	10.21	ug/L		100
60)	1,2-Dibromo-3-chloropropan	23.62	75	69586	10.13	ug/L		96
61)	1,2,4-Trichlorobenzene	25.17	180	908930	10.33	ug/L		100
62)	Hexachlorobutadiene	25.49	225	816995	10.01	ug/L		96
63)	Naphthalene	25.64	128	1023095	11.73	ug/L		100
64)	1,2,3-Trichlorobenzene	26.13	180	669440	10.47	ug/L		99
65)	Methyl-tert butyl ether	8.33	73	703704	10.25	ug/L		96
66)	tert-Butyl Alcohol	8.09	59	24056	23.20	ug/L		100

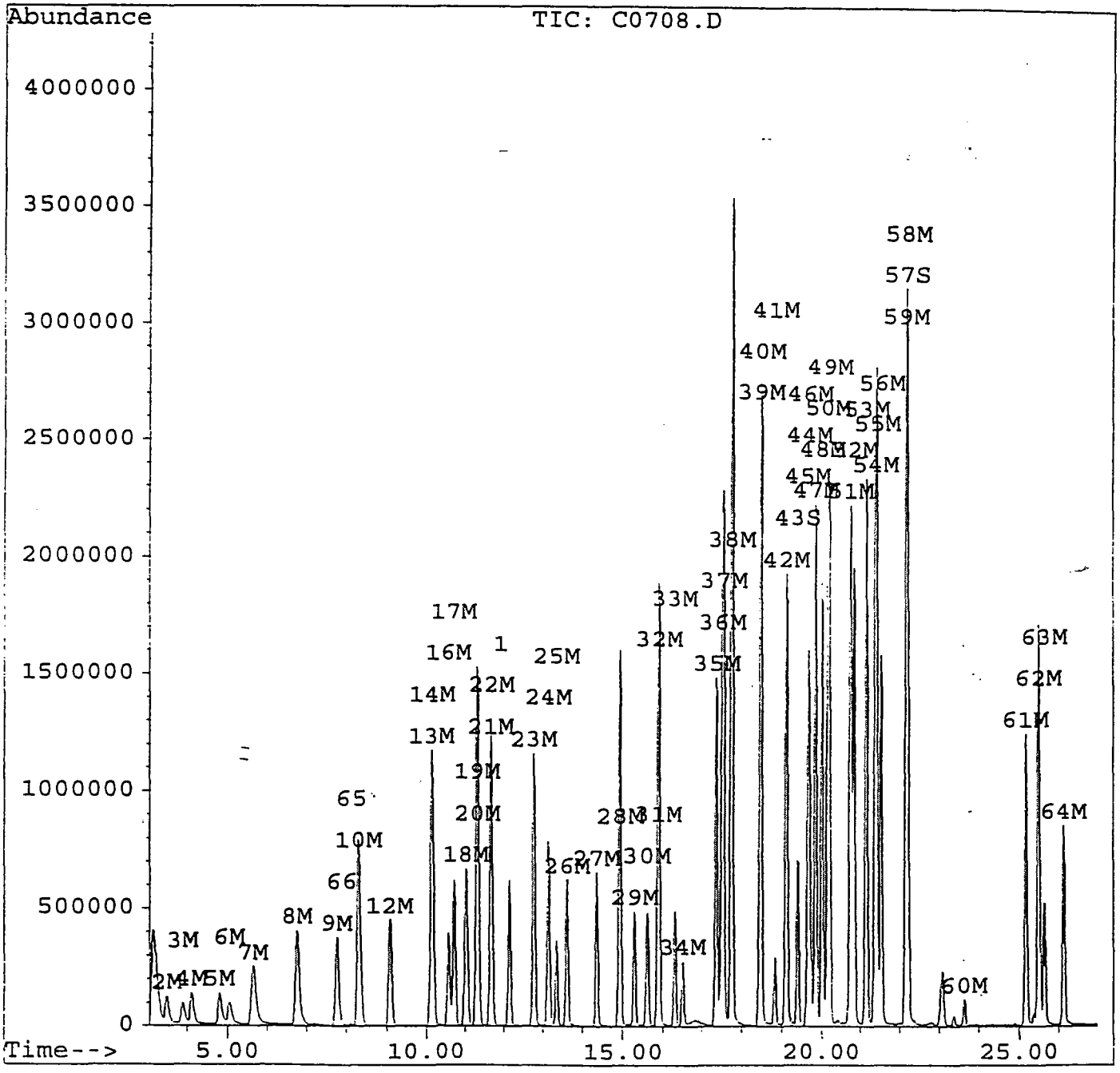
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0708.d
Acq On : 26 Dec 95 11:58 pm
Sample : 9557856 MS
Misc : 25 ML
Quant Time: Dec 27 14:28 1995

Vial: 14 **140**
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



Quantitation Report

141

Data File : d:\hpchem\1\data\c0709.d
Acq On : 27 Dec 95 12:32 am
Sample : 9557856 MSD
Misc : 25 ML
Quant Time: Dec 27 14:31 1995

Vial: 15
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.12	96	1165721	5.00	ug/L	-0.01
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.37	95	558836	5.08	ug/L	101.63%
57) 1,2-Dichlorobenzene-d4	22.17	152	336903	5.21	ug/L	104.15%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.43	85	398790	8.34	ug/L	99
3) Chloromethane	3.82	50	393812	8.38	ug/L	100
4) Vinyl chloride	4.06	62	461378	9.23	ug/L	99
5) Bromomethane	4.75	94	335508	11.87	ug/L	98
6) Chloroethane	5.00	64	318893	10.51	ug/L	99
7) Trichlorofluoromethane	5.59	101	849039	9.67	ug/L	98
8) 1,1-Dichloroethene	6.71	96	536093	9.81	ug/L	98
9) Methylene chloride	7.72	84	464154	9.07	ug/L	96
10) trans-1,2-Dichloroethene	8.27	96	628599	10.09	ug/L	98
12) 1,1-Dichloroethane	9.06	63	1169142	10.09	ug/L	98
13) 2,2-Dichloropropane	10.11	77	846833	8.93	ug/L	97
14) cis-1,2-Dichloroethene	10.13	96	615188	10.40	ug/L	95
16) Bromochloromethane	10.56	128	238044	10.37	ug/L	99
17) Chloroform	10.70	83	1038510	10.15	ug/L	100
18) 1,1,1-Trichloroethane	11.01	97	1034493	9.93	ug/L	99
19) Carbon tetrachloride	11.30	117	952154	10.11	ug/L	98
20) 1,1-Dichloropropene	11.30	75	944871	9.75	ug/L	100
21) Benzene	11.66	78	2041839	10.22	ug/L	98
22) 1,2-Dichloroethane	11.68	62	397980	10.50	ug/L	99
23) Trichloroethene	12.75	95	831010	10.23	ug/L	99
24) 1,2-Dichloropropane	13.12	63	688416	10.37	ug/L	100
25) Dibromomethane	13.33	93	269038	10.24	ug/L	96
26) Bromodichloromethane	13.60	83	820724	10.33	ug/L	100
27) cis-1,3-Dichloropropene	14.35	75	734963	10.08	ug/L	100
28) Toluene	14.92	92	1426913	9.81	ug/L	99
29) trans-1,3-Dichloropropene	15.28	75	483118	10.04	ug/L	100
30) 1,1,2-Trichloroethane	15.60	83	264644	10.34	ug/L	99
31) Tetrachloroethene	15.88	166	976963	10.23	ug/L	99
32) 1,3-Dichloropropane	15.89	76	513145	10.32	ug/L	99
33) Dibromochloromethane	16.30	129	521342	10.40	ug/L	97
34) 1,2-Dibromoethane	16.50	107	379373	10.45	ug/L	99
35) Chlorobenzene	17.35	112	1625906	10.57	ug/L	99
36) 1,1,1,2-Tetrachloroethane	17.49	131	653312	10.59	ug/L	99
37) Ethylbenzene	17.53	91	2874005	9.94	ug/L	99
38) Xylene (para & meta)	17.73	106	2025997	18.36	ug/L	99
39) Xylene (Ortho)	18.44	106	925083	9.35	ug/L	100
40) Styrene	18.46	104	1221539	8.36	ug/L m	98

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

Quantitation Report

Data File : d:\hpchem\1\data\c0709.d
Acq On : 27 Dec 95 12:32 am
Sample : 9557856 MSD
Misc : 25 ML
Quant Time: Dec 27 14:31 1995

Vial: 15
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.81	173	272756	9.79	ug/L		99
42)	Isopropylbenzene	19.09	105	2834796	10.05	ug/L	m	0
44)	Bromobenzene	19.66	156	687913	10.67	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.62	83	341913	10.37	ug/L		99
46)	1,2,3-Trichloropropane	19.69	75	339785	10.79	ug/L	#	55
47)	n-Propylbenzene	19.84	91	3875450	9.94	ug/L		94
48)	2-Chlorotoluene	20.00	91	2181447	9.68	ug/L		90
49)	4-Chlorotoluene	20.20	91	2471632	10.24	ug/L		100
50)	1,3,5-Trimethylbenzene	20.15	105	2001607	8.39	ug/L	m	98
51)	tert-Butylbenzene	20.74	119	2766504	11.01	ug/L		98
52)	1,2,4-Trimethylbenzene	20.83	105	1874573	8.09	ug/L		98
53)	sec-Butylbenzene	21.15	105	3846072	10.18	ug/L		99
54)	1,3-Dichlorobenzene	21.36	146	1366502	10.60	ug/L		98
55)	4-Isopropyltoluene	21.40	119	2875318	9.65	ug/L		100
56)	1,4-Dichlorobenzene	21.52	146	1357652	10.87	ug/L		99
58)	1,2-Dichlorobenzene	22.21	146	1041982	10.62	ug/L		97
59)	n-Butylbenzene	22.16	91	3101072	10.08	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.62	75	61392	9.89	ug/L		88
61)	1,2,4-Trichlorobenzene	25.17	180	828685	10.42	ug/L		100
62)	Hexachlorobutadiene	25.50	225	739015	10.02	ug/L		99
63)	Naphthalene	25.64	128	914925	11.61	ug/L		100
64)	1,2,3-Trichlorobenzene	26.13	180	608513	10.53	ug/L		99
65)	Methyl-tert butyl ether	8.31	73	615540	9.92	ug/L		100
66)	tert-Butyl Alcohol	8.07	59	20790	22.19	ug/L		100

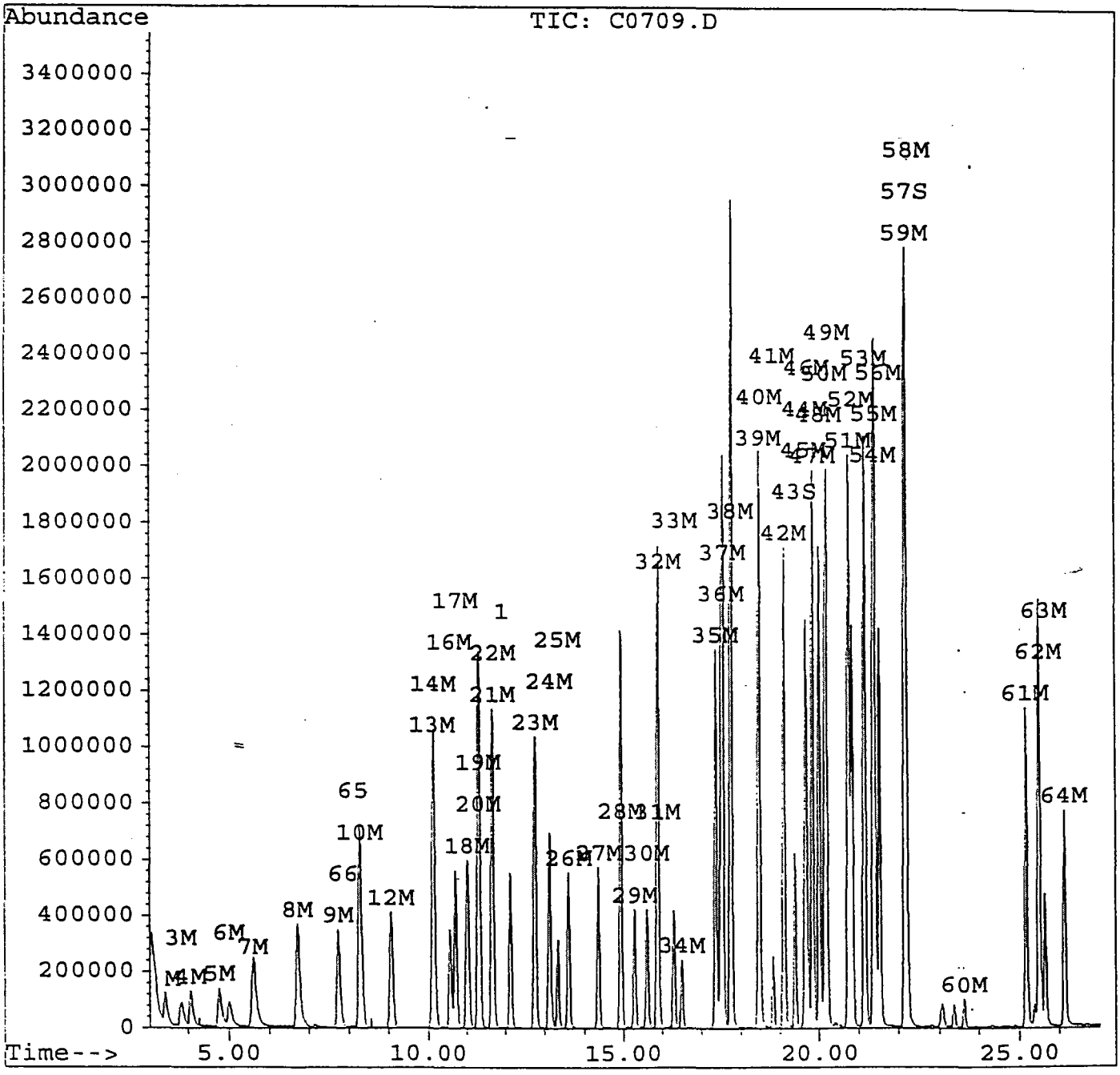
(#) = qualifier out of range (m) = manual integration

Quantitation Report

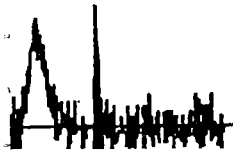
Data File : d:\hpchem\1\data\c0709.d
Acq On : 27 Dec 95 12:32 am
Sample : 9557856 MSD
Misc : 25 ML
Quant Time: Dec 27 14:31 1995

Vial: 15
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Dec 26 17:40:31 1995
Response via : Multiple Level Calibration



GC/MS SEMIVOLATILE DATA PACKAGE



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Nam EMSL Analytical Contract: _____

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

Lab File ID: B8951.D DFTPP Injection Date: 10/22/95

Instrument ID: ABNA DFTPP Injection Time: 1620

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		
51	30.0 - 80.0% of mass 198	58.1		
68	Less than 2.0% of mass 69	0.0	0.0	)1
69	Mass 69 relative abundance	82.8		
70	Less than 2.0% of mass 69	0.2	0.3	)1
127	25.0 - 75.0% of mass 198	44.6		
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	6.7		
275	10.0 - 30.0% of mass 198	20.2		
365	Greater than 0.75% of mass 198	2.5		
441	Present, but less than mass 443	10.3		
442	40.0 - 110.0% of mass 198	72.0		
443	15.0 - 24.0% of mass 442	13.9	19.2	)2

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

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

	EPA SAMPLE N	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
#		20 STANDARD	B8952.D	10/22/95	1658
#		50 STANDARD	B8953.D	10/22/95	1749
#		80 STANDARD	B8954.D	10/22/95	1842
#		120 STANDARD	B8955.D	10/22/95	1933
#		160 STANDARD	B8956.D	10/22/95	2024
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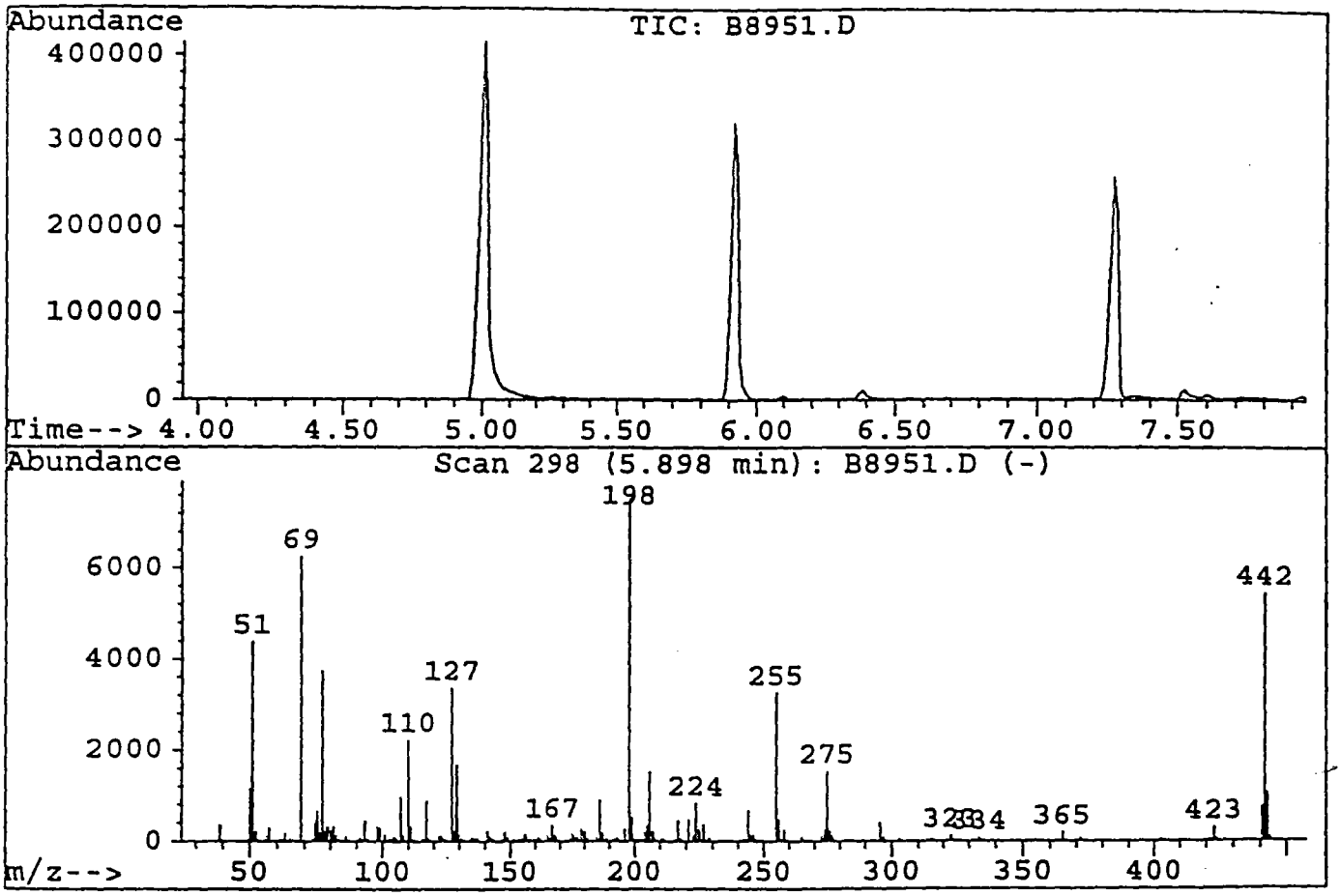
Data File : C:\HPCHEM\1\DATA2\B8951.D
Acq On : 22 Oct 95 4:20 pm
Sample : DFTPP ..... Converted from RTE d
Misc :

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration



Peak Apex is scan: 303

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.1	4393	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	82.8	6258	PASS
70	69	0	2	0.3	17	PASS
127	198	40	60	44.6	3367	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	7557	PASS
199	198	5	9	6.7	509	PASS
275	198	10	30	20.2	1529	PASS
365	198	1	100	2.5	192	PASS
441	443	0	100	74.6	781	PASS
442	198	40	100	72.0	5439	PASS
443	442	17	23	19.2	1047	PASS

Scan 293 (5.893 min): B8951.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.10	48	53.20	32	66.25	16	81.05	330
39.10	377	55.15	21	69.05	6258	82.05	125
40.05	27	56.05	141	70.00	17	83.10	43
41.10	10	57.15	307	73.05	24	85.15	33
44.05	7	58.05	32	74.10	427	86.05	107
46.60	11	59.95	22	75.05	682	87.05	21
47.80	16	61.05	55	76.05	197	91.15	87
49.10	37	61.95	44	77.05	3745	92.00	60
50.10	1180	63.05	185	78.10	240	93.00	454
51.10	4393	64.15	16	79.05	321	94.00	50
52.15	214	65.10	64	80.15	246	97.10	3

Scan 298 (5.898 min): B8951.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
98.00	325	110.00	2222	122.95	109	137.05	74
99.00	281	111.00	317	124.10	52	140.95	229
100.10	5	112.00	46	125.05	31	141.95	94
100.95	139	113.10	20	127.00	3367	142.95	55
102.10	18	115.90	71	128.00	243	145.95	27
102.90	73	117.00	896	129.00	1693	147.00	82
104.00	105	117.90	36	129.90	141	148.00	203
105.00	92	118.10	58	130.95	51	148.95	66
105.90	39	119.00	20	134.00	53	151.05	39
107.00	988	120.00	31	134.95	101	151.85	31
108.00	125	122.00	109	136.05	69	152.05	32

Scan 298 (5.898 min): B8951.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.95	60	165.05	106	176.90	82	187.90	28
154.05	51	166.05	68	177.80	28	188.85	72
154.95	105	166.90	354	178.10	24	191.10	44
156.05	158	167.95	121	178.90	282	192.00	61
156.85	36	169.10	30	180.00	203	193.00	102
157.95	40	170.10	16	181.00	77	194.00	21
158.95	24	171.90	35	183.10	15	195.10	31
159.25	25	173.00	24	183.90	27	195.95	283
159.95	67	173.95	67	184.90	108	197.90	7557
160.95	104	175.00	148	186.00	914	198.90	509
161.75	45	175.90	65	186.95	185	200.00	46

Scan 298 (5.898 min): B8951.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.60	61	215.95	46	231.05	30	246.80	43
202.90	37	216.80	458	233.85	24	248.80	25
203.95	217	217.95	63	234.85	34	254.85	3269
204.95	357	220.95	493	236.95	39	255.90	462
205.95	1535	222.90	129	238.85	14	256.90	41
206.95	222	223.90	845	240.80	39	257.90	257
207.85	61	224.95	251	242.00	53	258.90	35
210.00	28	226.05	23	243.00	42	264.80	100
210.65	74	226.90	375	243.90	676	265.60	2
211.15	58	227.85	48	244.90	125	271.10	17
214.95	32	228.85	86	245.90	118	272.90	118

Scan 298 (5.898 min): B8951.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.95	258	303.05	54	340.80	21	382.75	22
274.90	1529	314.00	18	351.85	43	389.90	20
275.90	208	314.80	56	352.85	33	401.90	34
276.80	117	315.80	36	353.85	41	402.80	36
277.65	28	321.00	19	354.65	19	420.80	38
284.25	14	322.85	124	364.75	192	421.80	40
284.55	12	323.80	30	365.65	20	422.75	303
285.05	41	326.80	31	370.75	21	423.85	52
292.75	37	332.00	18	371.85	86	440.80	781
295.80	403	333.80	79	372.75	20	441.85	5439
296.85	79	334.90	23	372.95	20	442.85	1047

Scan 298 (5.898 min): B8951.D

Modified:subtracted

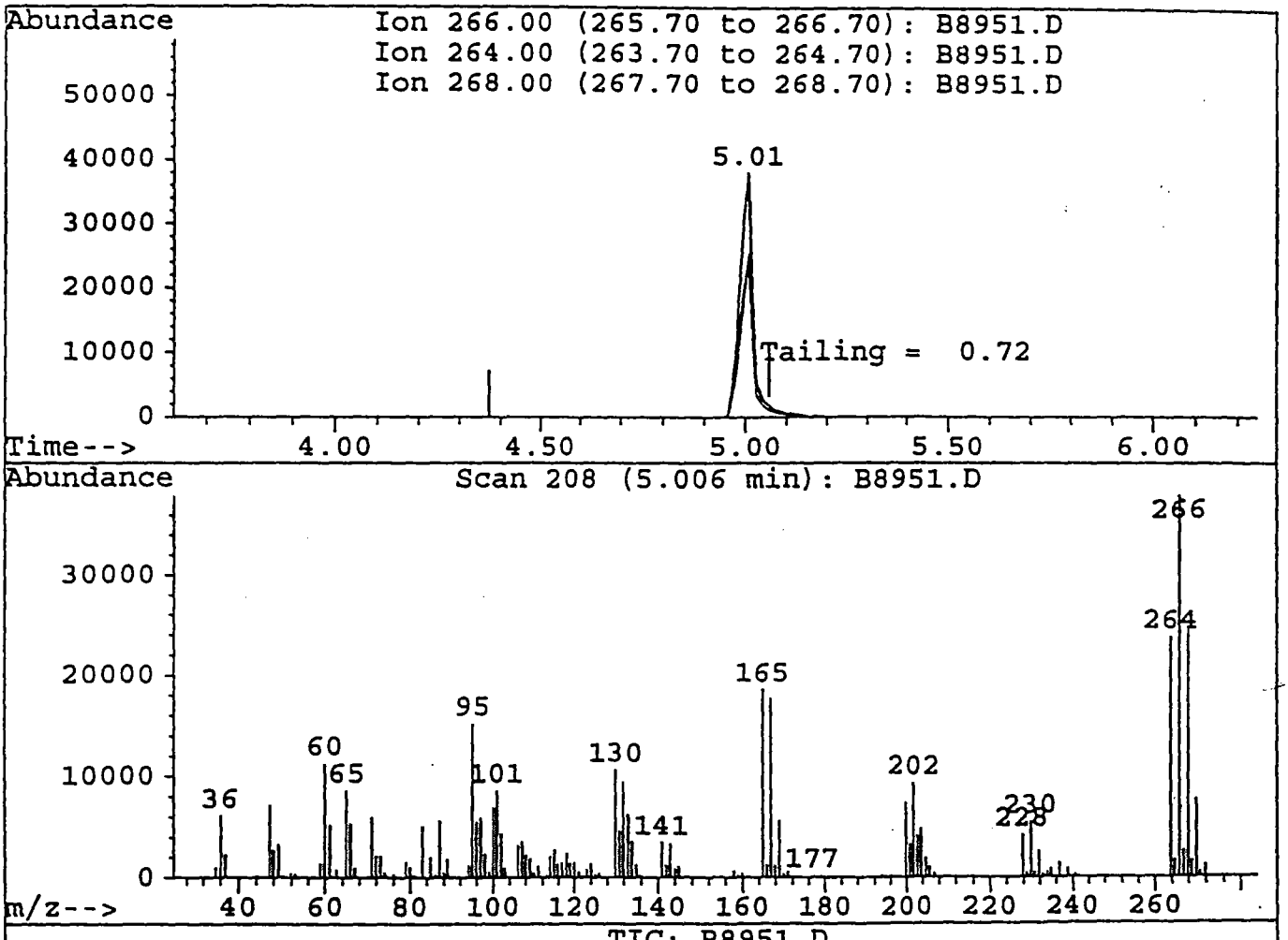
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.85	86						

Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B8951.D
Acq On : 22 Oct 95 4:20 pm
Sample : DFTPP ..... Converted from RTE d
Misc :
Quant Time: Oct 23 14:06 1995

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



(1) Pentachlorophenol (CM)

5.01min 266.46ug/mL

response 88011

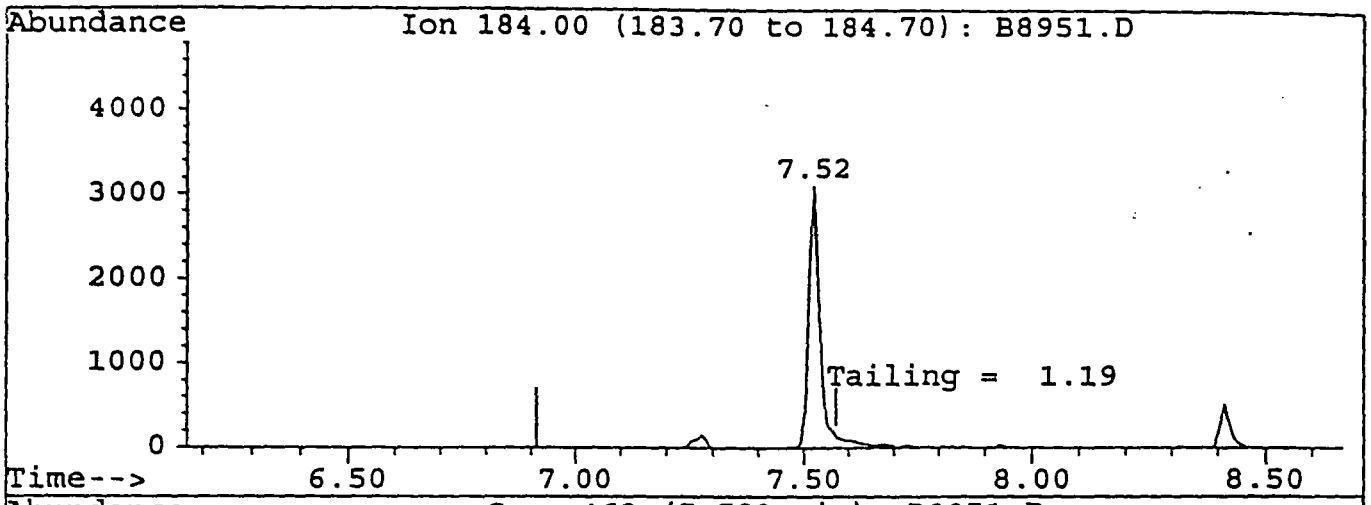
Ion	Exp%	Act%
266.00	100	100
264.00	64.30	67.02
268.00	64.70	64.58
0.00	0.00	0.00

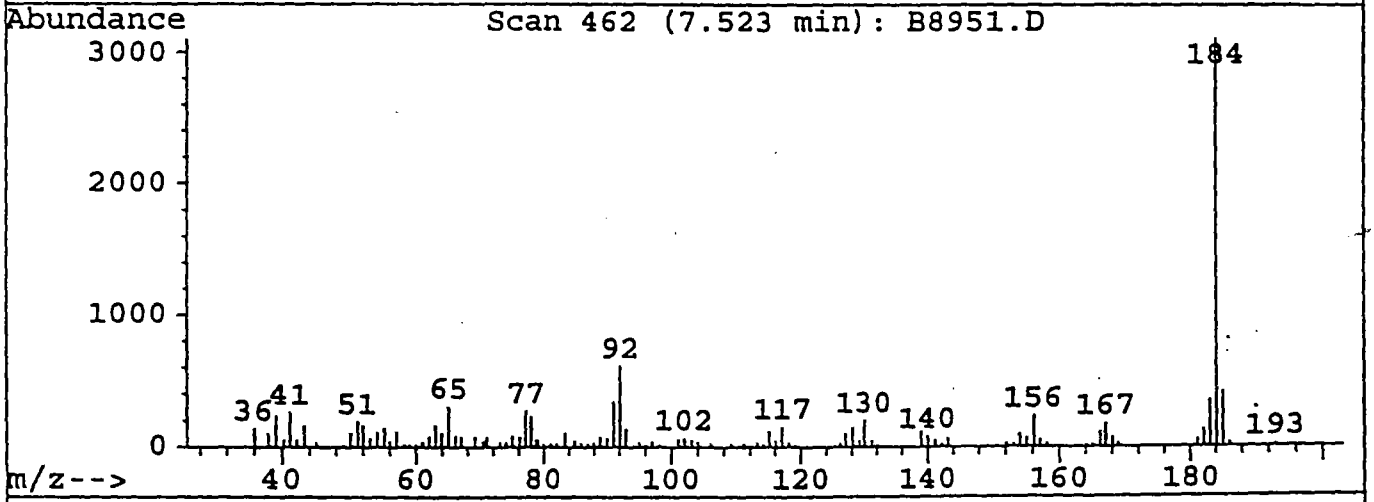
Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B8951.D
Acq On : 22 Oct 95 4:20 pm
Sample : DFTPP ..... Converted from RTE d
Misc :
Quant Time: Oct 23 14:06 1995

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration





TIC: B8951.D

(2) Benzidine
7.52min 18.09ug/ml
response 5556

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:15:01 1995
Response via : Initial Calibration

Calibration Files
160 =B8956.D 120 =B8955.D 80 =B8954.D
50 =B8953.D 20 =B8952.D

		Compound	160	120	80	50	20	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
2)	S	2-Fluorophenol	1.298	1.281	1.315	1.267	1.215	1.275	2.98
3)	S	Phenol-d5	2.193	2.110	2.121	2.008	1.912	2.069	5.30
4)	M	N-nitrosodimethylamin	0.949	0.938	0.778	0.886		0.887	8.80
5)		Pyridine	0.977	0.898	0.594	0.908	0.596	0.795	23.24
6)	CM	Phenol	2.058	1.866	1.941	1.876	1.963	1.941	4.00
7)	MT	bis(2-Chloroethyl)eth	2.339	2.271	2.478	2.298	2.478	2.373	4.17
8)	M	2-Chlorophenol	1.340	1.326	1.370	1.335	1.293	1.333	2.08
9)	MT	1,3-Dichlorobenzene	1.333	1.349	1.417	1.396	1.341	1.367	2.72
10)	CM	1,4-Dichlorobenzene	1.341	1.339	1.435	1.444	1.359	1.383	3.74
11)	M	1,2-Dichlorobenzene	1.327	1.309	1.391	1.387	1.322	1.347	2.88
12)	T	2-Methylphenol	1.282	1.266	1.246	1.281	1.320	1.279	2.15
13)	M	bis(2-chloroisopropyl	3.117	2.080	2.102	1.860	2.012	2.234	22.50
14)	T	4-Methylphenol	1.346	1.396	1.393	1.481	1.395	1.402	3.48
15)	PM	N-Nitroso-Di-n-propyl	1.635	1.504	1.491	1.495	1.515	1.528	3.97
16)	M	Hexachloroethane	0.866	0.842	0.908	0.877	0.847	0.868	3.04
17)	I	Naphthalene-d8	----------ISTD----------						
18)	S	Nitrobenzene-d5	0.536	0.548	0.540	0.529	0.557	0.542	2.00
19)	M	Nitrobenzene	0.665	0.462	0.486	0.489	0.494	0.519	15.90
20)	M	Isophorone	1.023	1.026	1.061	1.021	1.376	1.101	13.99
21)	MC	2-Nitrophenol	0.233	0.242	0.253	0.246	0.223	0.239	4.94
22)	M	2,4-Dimethylphenol	0.406	0.400	0.396	0.376	0.355	0.387	5.48
23)	M	bis(2-Chloroethoxy)me	0.594	0.586	0.623	0.583	0.629	0.603	3.57
24)	MC	2,4-Dichlorophenol	0.301	0.295	0.305	0.294	0.281	0.295	3.20
25)	M	1,2,4-Trichlorobenzen	0.299	0.303	0.314	0.309	0.297	0.304	2.24
26)	M	Naphthalene	0.999	1.022	0.994	1.016	0.985	1.003	1.53
27)	T	4-Chloroaniline	0.476	0.462	0.491	0.449	0.476	0.470	3.41
28)	MC	Hexachlorobutadiene	0.155	0.162	0.164	0.161	0.155	0.160	2.53
29)	MC	4-Chloro-3-methylphen	0.402	0.386	0.385	0.392	0.376	0.388	2.50
30)	M	2-Chloronaphthalene	0.643	0.619	0.649	0.634	0.627	0.634	1.88
31)	T	2-Methylnaphthalene	0.823	0.860	0.870	0.905	0.890	0.870	3.60
32)	I	Acenaphthene-d10	----------ISTD----------						
33)	P	Hexachlorocyclopentad	0.305	0.321	0.324	0.243	0.254	0.289	13.21
34)	MC	2,4,6-Trichlorophenol	0.491	0.481	0.415	0.404	0.339	0.426	14.61
35)	T	2,4,5-Trichlorophenol	0.271	0.293	0.373	0.403	0.396	0.347	17.62
36)	S	2-Fluorobiphenyl	1.238	1.248	1.189	1.241	1.184	1.220	2.53
37)	T	2-Nitroaniline	0.841	0.736	0.817	0.751	0.769	0.783	5.72
38)	M	Dimethylphthalate	1.333	1.293	1.362	1.377	1.474	1.368	4.92
39)	M	Acenaphthylene	1.777	1.826	1.858	1.846	1.697	1.801	3.66
40)	M	2,6-Dinitrotoluene	0.243	0.258	0.320	0.377	0.339	0.308	18.23
41)	T	3-Nitroaniline	0.298	0.316	0.358	0.366	0.372	0.342	9.62

) = Out of Range

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:15:01 1995
Response via : Initial Calibration

Calibration Files
160 =B8956.D 120 =B8955.D 80 =B8954.D
50 =B8953.D 20 =B8952.D

		Compound	160	120	80	50	20	Avg	%RSD
42)	CM	Acenaphthene	0.987	1.017	1.050	1.041	1.005	1.020	2.52
43)	MP	2,4-Dinitrophenol	0.242	0.217	0.207	0.173		0.210	13.59
44)	PM	4-Nitrophenol	0.243	0.224	0.225	0.220		0.228	4.42
45)	T	Dibenzofuran	1.535	1.581	1.527	1.568	1.461	1.534	3.05
46)	M	2,4-Dinitrotoluene	0.350	0.503	0.509	0.467	0.434	0.452	14.36
47)	M	Diethylphthalate	1.464	1.545	1.538	1.580	1.653	1.556	4.40
48)	M	Fluorene	1.177	1.197	1.128	1.203	1.132	1.167	3.03
49)	M	4-Chlorophenyl-phenyl	0.476	0.512	0.504	0.514	0.538	0.509	4.32
50)		Phenanthrene-d10	----------ISTD----------						
51)	T	4-Nitroaniline	0.201	0.219	0.237	0.246	0.248	0.230	8.80
52)	MC	4,6-Dinitro-2-methylp	0.143	0.147	0.146	0.157		0.148	4.25
53)	T	n-Nitrosodiphenylamin	0.502	0.521	0.559	0.565	0.566	0.543	5.37
54)	S	2,4,6-Tribromophenol	0.137	0.130	0.130	0.122	0.114	0.127	6.88
55)		1,2-Diphenylhydrazine	1.727	1.765	1.839	1.876	1.714	1.784	3.97
56)	M	4-Bromophenyl-phenyle	0.170	0.189	0.192	0.186	0.198	0.187	5.57
57)	M	Hexachlorobenzene	0.234	0.240	0.250	0.239	0.223	0.237	4.16
58)	CM	Pentachlorophenol	0.176	0.169	0.159	0.146		0.163	7.89
59)	M	Phenanthrene	1.052	1.101	1.091	1.128	1.062	1.087	2.81
60)	M	Anthracene	1.028	1.059	1.084	1.099	1.067	1.068	2.50
61)		Carbazole	1.073	1.102	1.155	1.045	0.948	1.065	7.19
62)	M	Di-n-butylphthalate	1.934	2.050	1.972	2.064	2.036	2.011	2.76
63)	MC	Fluoranthene	1.064	1.116	1.124	1.122	1.034	1.092	3.74
64)	I	Chrysene-d12	----------ISTD----------						
65)		Benzidine	0.292	0.287	0.271	0.235	0.282	0.274	8.41
66)	M	Pyrene	1.738	1.691	1.628	1.557	1.388	1.600	8.56
67)	S	Terphenyl-d14	1.136	1.078	0.983	0.913	0.857	0.994	11.56
68)	M	Butylbenzylphthalate	1.325	1.272	1.223	1.223	1.183	1.245	4.39
69)	M	Benzo[a]anthracene	1.452	1.523	1.454	1.486	1.231	1.429	8.01
70)	M	3,3'-Dichlorobenzidin	0.363	0.382	0.412	0.399	0.375	0.386	5.04
71)	M	Chrysene	0.772	0.885	0.894	0.868	0.865	0.857	5.70
72)	M	bis(2-Ethylhexyl)phth	1.753	1.891	1.767	1.774	1.738	1.785	3.42
73)	I	Perylene-d12	----------ISTD----------						
74)	MC	Di-n-octylphthalate	5.446	5.792	5.574	5.955		5.692	3.97
75)	M	Benzo[b]fluoranthene	1.854	2.099	1.614	2.424	1.772	1.952	16.21
76)	m	Benzo[k]fluoranthene	1.092	1.112	1.104	1.200	1.303	1.162	7.73
77)	mc	Benzo[a]pyrene	1.053	1.059	1.082	1.079	1.132	1.081	2.85
78)	m	Indeno[1,2,3-cd]pyren	0.593	0.636	0.621	0.586	0.371	0.561	19.33
79)	m	Dibenz[a,h]anthracene	0.600	0.602	0.587	0.572	0.382	0.549	17.12
80)	M	Benzo[g,h,i]perylene	0.552	0.576	0.573	0.534	0.312	0.510	21.93
81)		1-Methyl naphthalene						0.000#	-1.00
82)		7,12-Dimethylbenz(a)a						0.000#	-1.00

#) = Out of Range

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:15:01 1995
Response via : Initial Calibration

Calibration Files
160 =B8956.D 120 =B8955.D 80 =B8954.D
50 =B8953.D 20 =B8952.D

	Compound	160	120	80	50	20	Avg	%RSD
83)	Quinoline						0.000#	-1.00
84)	Thiophenol						0.000#	-1.00
85)	4-Methyl chrysene						0.000#	-1.00
86)	Dibenz(a,j)acridine						0.000#	-1.00
87)	Indene						0.000#	-1.00
88)	Benzyl alcohol						0.000#	-1.00
89)	Benzoic acid						0.000#	-1.00

= Out of Range

Quantitation Report

Data File : c:\hpchem\1\data2\b8952.d
Acq On : 22 Oct 95 4:58 pm
Sample : 20 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:45 1995

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.69	152	29442	40.00	ug/mL	-0.33
17) Naphthalene-d8	12.41	136	115955	40.00	ug/mL	-0.35
32) Acenaphthene-d10	17.73	164	69183	40.00	ug/mL	-0.35
50) Phenanthrene-d10	22.20	188	103757	40.00	ug/ml	-0.38
64) Chrysene-d12	30.29	240	75851	40.00	ug/mL	-0.40
73) Perylene-d12	34.27	264	29259	40.00	ug/mL	-0.43
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.11	112	44724	46.49	ug/mL	46.49%
3) Phenol-d5	8.08	99	70383	45.87	ug/mL	45.87%
18) Nitrobenzene-d5	10.37	82	80764	52.70	ug/mL	52.70%
36) 2-Fluorobiphenyl	15.88	172	102384	48.24	ug/mL	48.24%
54) 2,4,6-Tribromophenol	20.14	330	14825	53.50	ug/mL	53.50%
67) Terphenyl-d14	27.36	244	81257	33.34	ug/mL	33.34%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.14	74	15448	25.20	ug/ml	100
6) Phenol	8.11	94	28900	20.59	ug/mL	100
7) bis(2-Chloroethyl)ether	12.10	93	36472	22.04	ug/mL	94
8) 2-Chlorophenol	8.09	128	19030	19.10	ug/mL#	81
9) 1,3-Dichlorobenzene	8.48	146	19737	19.33	ug/mL	96
10) 1,4-Dichlorobenzene	8.73	146	20003	19.12	ug/mL	96
11) 1,2-Dichlorobenzene	9.12	146	19457	19.34	ug/mL	97
12) 2-Methylphenol	9.81	108	19438	21.22	ug/mLm	100
13) bis(2-chloroisopropyl)ethe	9.79	45	29616	23.05	ug/mL#	40
14) 4-Methylphenol	10.31	108	20537	20.05	ug/mL	100
15) N-Nitroso-Di-n-propylamine	10.18	70	22300	21.23	ug/mL	94
16) Hexachloroethane	10.08	117	12474	20.33	ug/mL#	63
19) Nitrobenzene	10.43	77	28618	20.36	ug/mL	93
20) Isophorone	10.37	82	79753	25.72	ug/mL#	67
21) 2-Nitrophenol	11.37	139	12913	20.42	ug/mL#	86
22) 2,4-Dimethylphenol	11.83	107	20567	18.72	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.10	93	36472	21.56	ug/mL#	100
24) 2,4-Dichlorophenol	12.16	162	16269	19.83	ug/mL#	93
25) 1,2,4-Trichlorobenzene	12.32	180	17221	20.08	ug/mL	95
26) Naphthalene	12.47	128	57119	19.89	ug/mL	100
27) 4-Chloroaniline	12.84	127	27603	20.47	ug/mL	99
28) Hexachlorobutadiene	12.99	225	9013	20.60	ug/mL	95
29) 4-Chloro-3-methylphenol	14.57	107	21812	20.86	ug/mL	96
30) 2-Chloronaphthalene	16.05	162	36338	21.53	ug/ml#	100
31) 2-Methylnaphthalene	14.61	142	51624	30.41	ug/mL	95
33) Hexachlorocyclopentadiene	15.13	237	8772	19.27	ug/mL#	90
34) 2,4,6-Trichlorophenol	15.59	196	11710	15.31	ug/mL	96
35) 2,4,5-Trichlorophenol	15.69	196	13699	21.15	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b8952.d Vial: 2
Acq On : 22 Oct 95 4:58 pm Operator: SCOTTV
Sample : 20 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 25 9:45 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.83	65	26617	23.54	ug/mL	72
38)	Dimethylphthalate	17.31	163	50983	22.95	ug/mL#	13
39)	Acenaphthylene	17.25	152	58691	19.03	ug/mL	98
40)	2,6-Dinitrotoluene	17.40	165	11726	19.95	ug/mL#	87
41)	3-Nitroaniline	19.68	138	12871	24.57	ug/mL#	87
42)	Acenaphthene	17.81	153	34778	18.65	ug/mL	99
43)	2,4-Dinitrophenol	18.15	184	4144	18.76	ug/mL#	66
44)	4-Nitrophenol	18.65	109	6336	21.77	ug/mL#	57
45)	Dibenzofuran	18.37	168	50539	19.77	ug/mL#	88
46)	2,4-Dinitrotoluene	18.56	165	15019	23.85	ug/mL#	1
47)	Diethylphthalate	19.54	149	57169	23.32	ug/mL	95
48)	Fluorene	19.39	166	39160	19.64	ug/mL	99
49)	4-Chlorophenyl-phenylether	19.60	204	18593	20.88	ug/mL	90
51)	4-Nitroaniline	19.68	138	12871	21.96	ug/mL	87
52)	4,6-Dinitro-2-methylphenol	19.77	198	6716	20.84	ug/mL	100
53)	n-Nitrosodiphenylamine	20.02	169	29360	21.36	ug/mL	95
55)	1,2-Diphenylhydrazine (as	20.08	77	88943	17.28	ug/ml	100
56)	4-Bromophenyl-phenylether	21.06	248	10252	18.11	ug/mL#	76
57)	Hexachlorobenzene	21.01	284	11578	18.19	ug/mL#	52
58)	Pentachlorophenol	21.74	266	5478	14.77	ug/mL	99
59)	Phenanthrene	22.28	178	55118	18.45	ug/mL	100
60)	Anthracene	22.41	178	55350	19.28	ug/mLm	100
61)	Carbazole	23.07	167	49203	17.84	ug/ml	97
62)	Di-n-butylphthalate	24.61	149	105600	19.26	ug/mL	99
63)	Fluoranthene	25.88	202	53632	19.37	ug/mL#	58
65)	Benzidine	26.57	184	10709	16.44	ug/ml	100
66)	Pyrene	26.50	202	52626	12.69	ug/mL#	75
68)	Butylbenzylphthalate	29.14	149	44863	17.91	ug/mL#	9
69)	Benzo[a]anthracene	30.26	228	46690	19.16	ug/mL	100
70)	3,3'-Dichlorobenzidine	30.43	252	14204	27.28	ug/mL#	88
71)	Chrysene	30.35	228	32814	17.31	ug/mLm	100
72)	bis(2-Ethylhexyl)phthalate	31.12	149	65904	18.81	ug/mL#	35
74)	Di-n-octylphthalate	33.03	149	94455	16.40	ug/mL#	100
75)	Benzo[b]fluoranthene	33.30	252	25924	16.54	ug/mL#	85
76)	Benzo[k]fluoranthene	33.38	252	19069	16.16	ug/mLm	85
77)	Benzo[a]pyrene	34.11	252	16555	19.26	ug/mLm	85
78)	Indeno[1,2,3-cd]pyrene	36.79	276	5424	14.32	ug/mL#	23
79)	Dibenz[a,h]anthracene	36.91	278	5588	18.32	ug/mL#	74
80)	Benzo[g,h,i]perylene	37.31	276	4565	14.10	ug/mLm	59

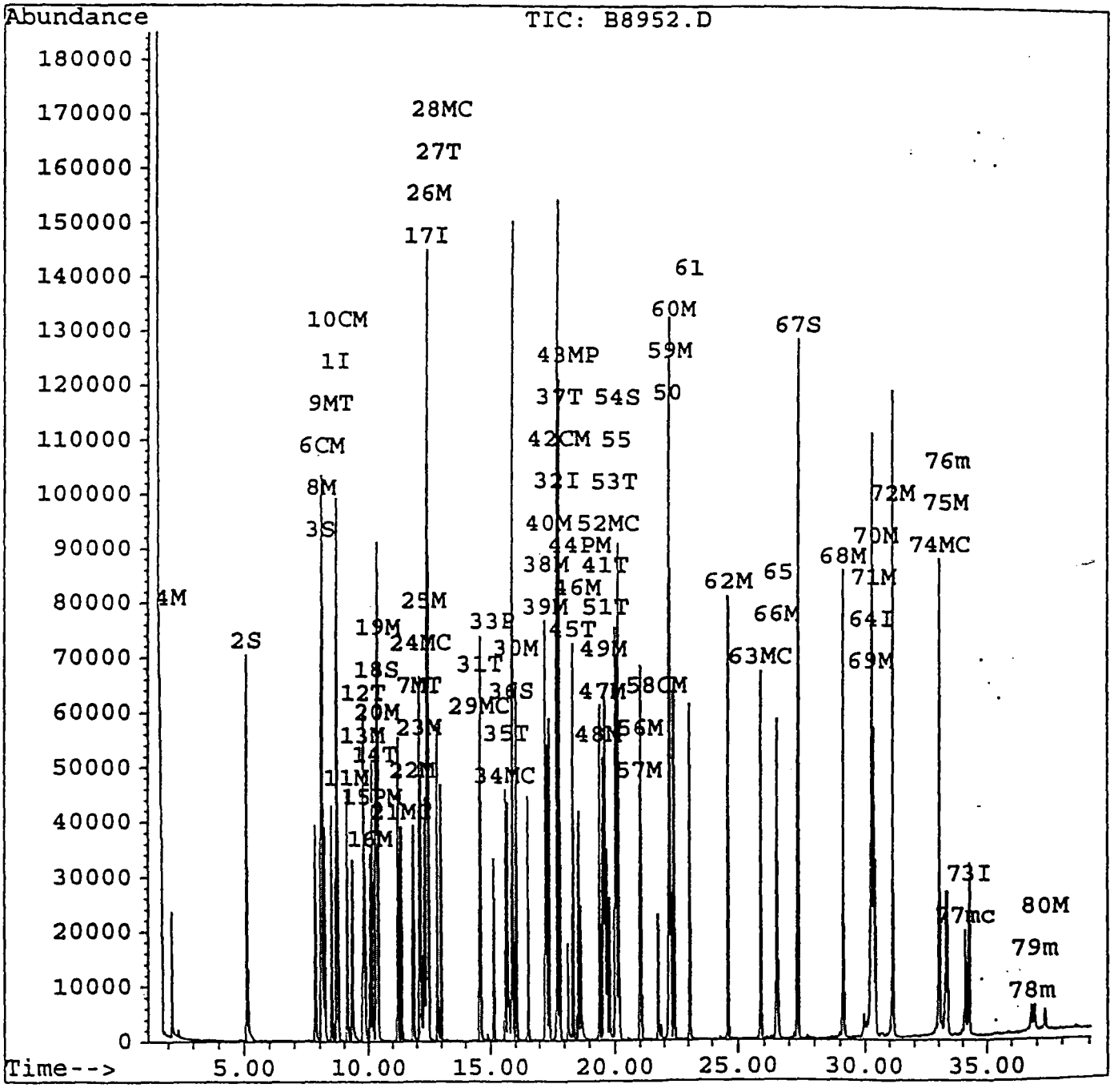
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b8952.d
Acq On : 22 Oct 95 4:58 pm
Sample : 20 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:45 1995

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b8953.d
Acq On : 22 Oct 95 5:49 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:46 1995

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.69	152	30029	40.00	ug/mL	-0.33
17) Naphthalene-d8	12.43	136	118447	40.00	ug/mL	-0.33
32) Acenaphthene-d10	17.73	164	66652	40.00	ug/mL	-0.35
50) Phenanthrene-d10	22.23	188	99018	40.00	ug/ml	-0.35
64) Chrysene-d12	30.29	240	71387	40.00	ug/mL	-0.41
73) Perylene-d12	34.24	264	29156	40.00	ug/mL	-0.45
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.11	112	47542	48.46	ug/mL	48.46%
3) Phenol-d5	8.09	99	75366	48.16	ug/mL	48.16%
18) Nitrobenzene-d5	10.39	82	78309	50.02	ug/mL	50.02%
36) 2-Fluorobiphenyl	15.90	172	103420	50.58	ug/mL	50.58%
54) 2,4,6-Tribromophenol	20.17	330	15101	57.11	ug/mL	57.11%
67) Terphenyl-d14	27.36	244	81512	35.53	ug/mL	35.53%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.14	74	33256	53.18	ug/ml	100
6) Phenol	8.13	94	70425	49.19	ug/mL	100
7) bis(2-Chloroethyl)ether	12.12	93	86266	51.11	ug/mL	97
8) 2-Chlorophenol	8.11	128	50107	49.31	ug/mL#	79
9) 1,3-Dichlorobenzene	8.48	146	52404	50.32	ug/mL	98
10) 1,4-Dichlorobenzene	8.75	146	54194	50.78	ug/mL	97
11) 1,2-Dichlorobenzene	9.14	146	52073	50.76	ug/mL	96
12) 2-Methylphenol	9.83	108	48095	51.48	ug/mLm	99
13) bis(2-chloroisopropyl)ethe	9.77	45	69800	53.26	ug/mL	98
14) 4-Methylphenol	10.35	108	55590	53.22	ug/mL	99
15) N-Nitroso-Di-n-propylamine	10.22	70	56128	52.39	ug/mL#	95
16) Hexachloroethane	10.08	117	32913	52.60	ug/mL#	72
19) Nitrobenzene	10.45	77	72432	50.46	ug/mL	88
20) Isophorone	11.28	82	151156	47.73	ug/mL	94
21) 2-Nitrophenol	11.39	139	36365	56.30	ug/mL#	87
22) 2,4-Dimethylphenol	11.87	107	55686	49.62	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.12	93	86266	49.92	ug/mL#	100
24) 2,4-Dichlorophenol	12.18	162	43494	51.90	ug/mL	93
25) 1,2,4-Trichlorobenzene	12.32	180	45688	52.14	ug/mL	95
26) Naphthalene	12.49	128	150500	51.30	ug/mL	98
27) 4-Chloroaniline	12.86	127	66405	48.20	ug/mL	99
28) Hexachlorobutadiene	12.99	225	23776	53.19	ug/mL	97
29) 4-Chloro-3-methylphenol	14.57	107	58006	54.32	ug/mL	87
30) 2-Chloronaphthalene	16.06	162	93821	54.43	ug/ml#	100
31) 2-Methylnaphthalene	14.63	142	133962	77.26	ug/mL	96
33) Hexachlorocyclopentadiene	15.13	237	20265	46.21	ug/mL	98
34) 2,4,6-Trichlorophenol	15.61	196	33685	45.73	ug/mL	96
35) 2,4,5-Trichlorophenol	15.69	196	33610	53.87	ug/mL	96

(#) = qualifier out of range (m)

Quantitation Report

Data File : c:\hpchem\1\data2\b8953.d Vial: 3
Acq On : 22 Oct 95 5:49 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 25 9:46 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.85	65	62561	57.42	ug/mL	88
38)	Dimethylphthalate	17.35	163	114727	53.61	ug/mL#	12
39)	Acenaphthylene	17.27	152	153827	51.77	ug/mL	98
40)	2,6-Dinitrotoluene	17.43	165	31425	55.50	ug/mL#	99
41)	3-Nitroaniline	19.74	138	30489	60.41	ug/mL#	88
42)	Acenaphthene	17.83	153	86706	48.26	ug/mL	98
43)	2,4-Dinitrophenol	18.18	184	14425	67.78	ug/mL#	82
44)	4-Nitrophenol	18.66	109	18330	65.38	ug/mL#	60
45)	Dibenzofuran	18.39	168	130635	53.03	ug/mL#	88
46)	2,4-Dinitrotoluene	18.60	165	38874	64.08	ug/mL#	1
47)	Diethylphthalate	19.57	149	131625	55.73	ug/mL	94
48)	Fluorene	19.41	166	100228	52.18	ug/mL	98
49)	4-Chlorophenyl-phenylether	19.62	204	42840	49.93	ug/mL#	83
51)	4-Nitroaniline	19.74	138	30489	54.51	ug/mL	88
52)	4,6-Dinitro-2-methylphenol	19.82	198	19462	63.27	ug/mL	100
53)	n-Nitrosodiphenylamine	20.05	169	69895	53.29	ug/mL	94
55)	1,2-Diphenylhydrazine (as	20.09	77	232246	47.27	ug/ml	100
56)	4-Bromophenyl-phenylether	21.07	248	23079	42.71	ug/mL#	91
57)	Hexachlorobenzene	21.03	284	29529	48.61	ug/mL#	45
58)	Pentachlorophenol	21.77	266	18120	51.19	ug/mL	99
59)	Phenanthrene	22.29	178	139586	48.95	ug/mL	99
60)	Anthracene	22.44	178	136009	49.65	ug/mLm	99
61)	Carbazole	23.10	167	129337	49.15	ug/ml	97
62)	Di-n-butylphthalate	24.64	149	255450	48.81	ug/mL#	97
63)	Fluoranthene	26.53	202	138921	52.58	ug/mL#	56
65)	Benzidine	22.23	184	20957	34.19	ug/mlm	100
66)	Pyrene	26.53	202	138921	35.60	ug/mL#	69
68)	Butylbenzylphthalate	29.15	149	109116	46.28	ug/mL#	9
69)	Benzo[a]anthracene	30.27	228	132632	57.82	ug/mL	99
70)	3,3'-Dichlorobenzidine	30.42	252	35599	72.64	ug/mL#	92
71)	Chrysene	30.36	228	77428	43.39	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	31.14	149	158269	47.99	ug/mL#	37
74)	Di-n-octylphthalate	33.04	149	217022	37.81	ug/mL#	100
75)	Benzo[b]fluoranthene	33.31	252	88341	56.55	ug/mLm	86
76)	Benzo[k]fluoranthene	33.39	252	43746	37.21	ug/mLm	86
77)	Benzo[a]pyrene	34.09	252	39340	45.93	ug/mLm	86
78)	Indeno[1,2,3-cd]pyrene	36.76	276	21346	56.57	ug/mL#	25
79)	Dibenz[a,h]anthracene	36.88	278	20854	68.60	ug/mL#	76
80)	Benzo[g,h,i]perylene	37.30	276	19464	60.33	ug/mLm	60

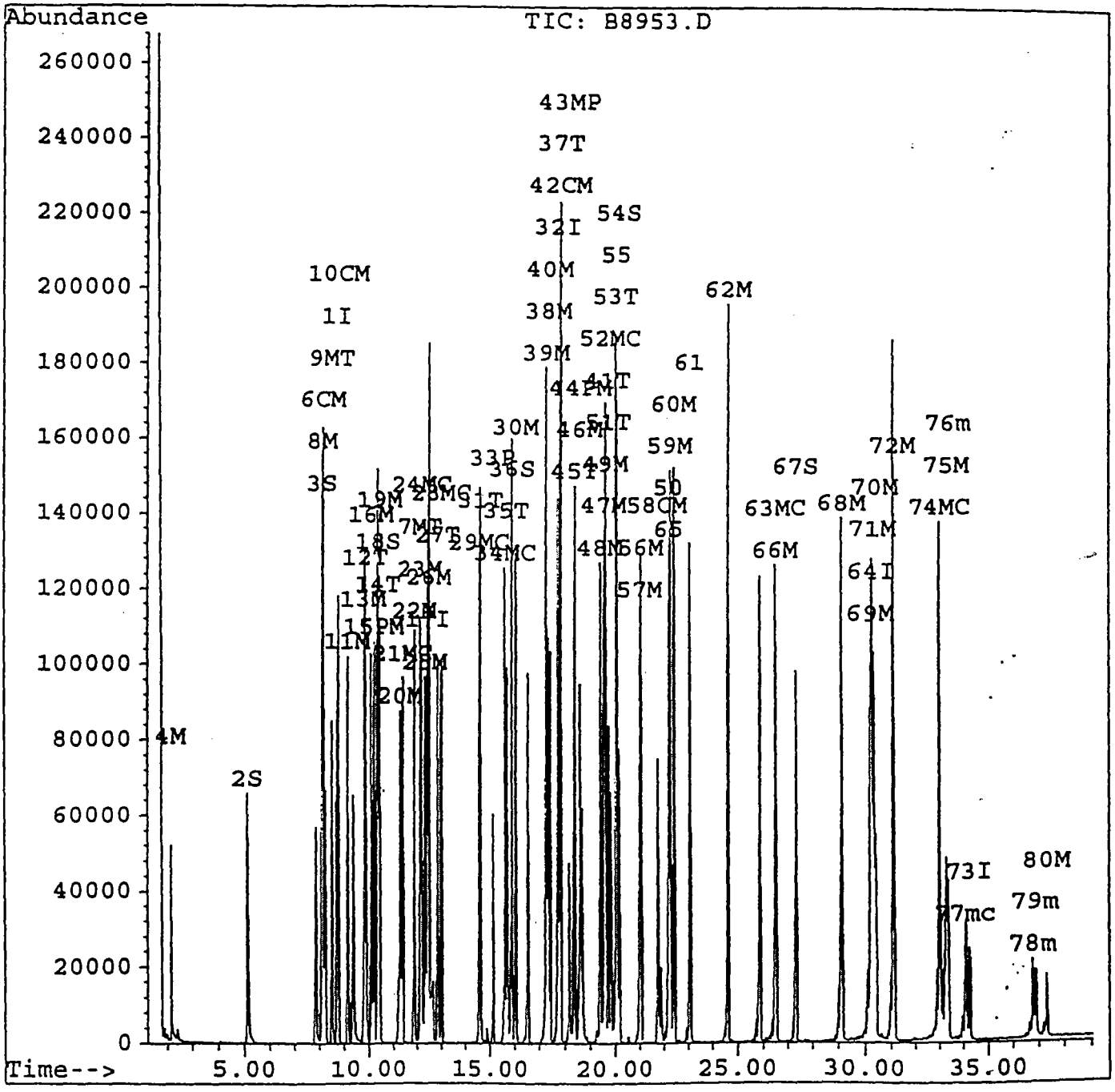
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b8953.d
Acq On : 22 Oct 95 5:49 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:46 1995

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b8954.d
Acq On : 22 Oct 95 6:42 pm
Sample : 80 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:48 1995

Vial: 4
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.69	152	27758	40.00	ug/mL	-0.33
17) Naphthalene-d8	12.43	136	110409	40.00	ug/mL	-0.33
32) Acenaphthene-d10	17.74	164	64239	40.00	ug/mL	-0.34
50) Phenanthrene-d10	22.23	188	96790	40.00	ug/ml	-0.34
64) Chrysene-d12	30.31	240	65927	40.00	ug/mL	-0.38
73) Perylene-d12	34.25	264	27421	40.00	ug/mL	-0.45
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.11	112	45615	50.30	ug/mL	50.30%
3) Phenol-d5	8.11	99	73604	50.88	ug/mL	50.88%
18) Nitrobenzene-d5	10.41	82	74558	51.09	ug/mL	51.09%
36) 2-Fluorobiphenyl	15.90	172	95476	48.45	ug/mL	48.45%
54) 2,4,6-Tribromophenol	20.19	330	15745	60.91	ug/mL	60.91%
67) Terphenyl-d14	27.36	244	80989	38.23	ug/mL	38.23%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.14	74	43170	74.69	ug/ml	100
6) Phenol	8.15	94	107752	81.42	ug/mL	100
7) bis(2-Chloroethyl)ether	12.14	93	137545	88.16	ug/mL	93
8) 2-Chlorophenol	8.11	128	76031	80.94	ug/mL#	84
9) 1,3-Dichlorobenzene	8.50	146	78669	81.71	ug/mL	97
10) 1,4-Dichlorobenzene	8.75	146	79665	80.76	ug/mL	97
11) 1,2-Dichlorobenzene	9.14	146	77232	81.44	ug/mL	97
12) 2-Methylphenol	9.85	108	69148	80.08	ug/mLm	99
13) bis(2-chloroisopropyl)ethe	9.81	45	116703	96.34	ug/mL#	59
14) 4-Methylphenol	10.37	108	77308	80.07	ug/mL	99
15) N-Nitroso-Di-n-propylamine	10.24	70	82768	83.57	ug/mL	93
16) Hexachloroethane	10.08	117	50425	87.18	ug/mL#	78
19) Nitrobenzene	10.47	77	107228	80.13	ug/mL	91
20) Isophorone	11.31	82	234237	79.35	ug/mL	95
21) 2-Nitrophenol	11.39	139	55945	92.92	ug/mL#	92
22) 2,4-Dimethylphenol	11.89	107	87491	83.64	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.14	93	137545	85.38	ug/mL#	100
24) 2,4-Dichlorophenol	12.20	162	67435	86.32	ug/mL	93
25) 1,2,4-Trichlorobenzene	12.34	180	69245	84.78	ug/mL	94
26) Naphthalene	12.49	128	219568	80.29	ug/mL	100
27) 4-Chloroaniline	12.88	127	108351	84.37	ug/mL	100
28) Hexachlorobutadiene	13.01	225	36309	87.14	ug/mL	100
29) 4-Chloro-3-methylphenol	14.59	107	85056	85.45	ug/mL#	77
30) 2-Chloronaphthalene	16.08	162	143223	89.13	ug/ml#	100
31) 2-Methylnaphthalene	14.63	142	192207	118.92	ug/mL	96
33) Hexachlorocyclopentadiene	15.15	237	41659	98.56	ug/mL	98
34) 2,4,6-Trichlorophenol	15.63	196	53315	75.09	ug/mL	96
35) 2,4,5-Trichlorophenol	15.71	196	47946	79.73	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b8954.d
Acq On : 22 Oct 95 6:42 pm
Sample : 80 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:48 1995

Vial: 4
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.87	65	104963	99.96	ug/mL	87
38)	Dimethylphthalate	17.37	163	175032	84.87	ug/mL#	12
39)	Acenaphthylene	17.29	152	238659	83.33	ug/mL	97
40)	2,6-Dinitrotoluene	17.47	165	41143	75.39	ug/mL#	91
41)	3-Nitroaniline	19.76	138	45967	94.49	ug/mL	87
42)	Acenaphthene	17.85	153	134868	77.88	ug/mL	99
43)	2,4-Dinitrophenol	18.20	184	26551	129.44	ug/mL#	84
44)	4-Nitrophenol	18.70	109	28923	107.04	ug/mL#	53
45)	Dibenzofuran	18.39	168	196167	82.63	ug/mL	93
46)	2,4-Dinitrotoluene	18.62	165	65450	111.94	ug/mL#	1
47)	Diethylphthalate	19.59	149	197611	86.81	ug/mL	95
48)	Fluorene	19.43	166	144915	78.28	ug/mL	100
49)	4-Chlorophenyl-phenylether	19.63	204	64693	78.23	ug/mL#	85
51)	4-Nitroaniline	19.76	138	45967	84.07	ug/mL	87
52)	4,6-Dinitro-2-methylphenol	19.86	198	28218	93.85	ug/mL	100
53)	n-Nitrosodiphenylamine	20.07	169	108144	84.35	ug/mL	95
55)	1,2-Diphenylhydrazine (as	20.11	77	356011	74.13	ug/ml	100
56)	4-Bromophenyl-phenylether	21.08	248	37114	70.27	ug/mL	95
57)	Hexachlorobenzene	21.06	284	48488	81.66	ug/mL#	37
58)	Pentachlorophenol	21.77	266	30727	88.81	ug/mL	99
59)	Phenanthrene	22.31	178	211278	75.80	ug/mL	99
60)	Anthracene	22.47	178	209890	78.38	ug/mLm	99
61)	Carbazole	23.12	167	223505	86.89	ug/ml	97
62)	Di-n-butylphthalate	24.64	149	381823	74.63	ug/mL	98
63)	Fluoranthene	25.91	202	217602	84.25	ug/mL#	58
65)	Benzidine	26.59	184	35718	63.11	ug/ml	100
66)	Pyrene	26.53	202	214611	59.55	ug/mL#	71
68)	Butylbenzylphthalate	29.15	149	161233	74.04	ug/mL#	11
69)	Benzo[a]anthracene	30.27	228	191680	90.48	ug/mL	98
70)	3,3'-Dichlorobenzidine	30.41	252	54288	119.95	ug/mL#	91
71)	Chrysene	30.37	228	117879	71.53	ug/mLm	98
72)	bis(2-Ethylhexyl)phthalate	31.12	149	232983	76.50	ug/mL#	36
74)	Di-n-octylphthalate	33.03	149	305687	56.63	ug/mL#	100
75)	Benzo[b]fluoranthene	33.32	252	88515	60.24	ug/mL#	85
76)	Benzo[k]fluoranthene	33.38	252	60541	54.76	ug/mLm	85
77)	Benzo[a]pyrene	34.09	252	59358	73.68	ug/mLm	85
78)	Indeno[1,2,3-cd]pyrene	36.77	276	34042	95.92	ug/mL#	27
79)	Dibenz[a,h]anthracene	36.89	278	32174	112.54	ug/mL#	73
80)	Benzo[g,h,i]perylene	37.31	276	31449	103.65	ug/mLm	61

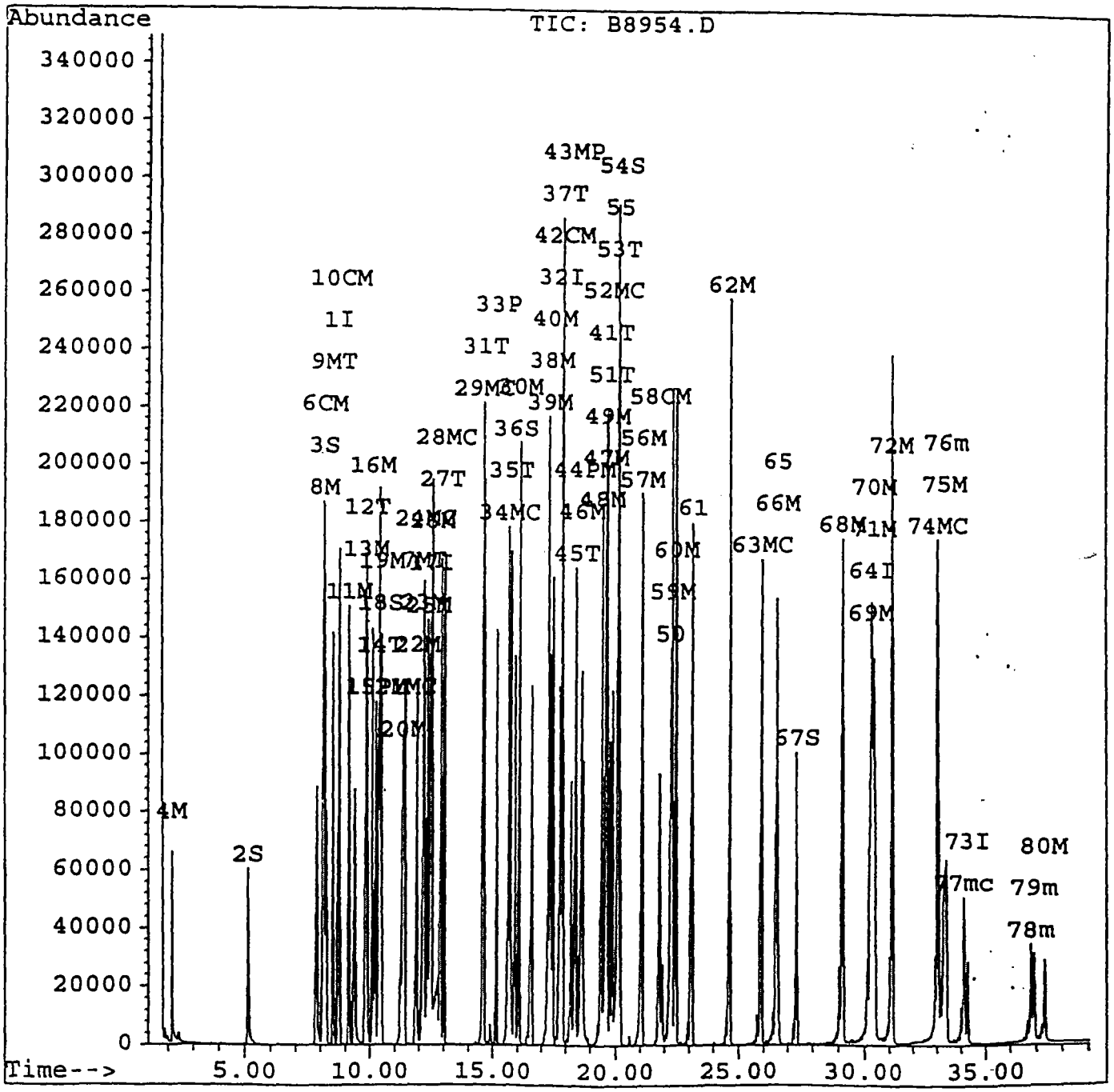
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b8954.d
Acq On : 22 Oct 95 6:42 pm
Sample : 80 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 9:48 1995

Vial: 4
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b8955.d
Acq On : 22 Oct 95 7:33 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 10:18 1995

Vial: 5
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.70	152	27461	40.00	ug/mL	-0.32
17) Naphthalene-d8	12.44	136	106422	40.00	ug/mL	-0.32
32) Acenaphthene-d10	17.75	164	62579	40.00	ug/mL	-0.33
50) Phenanthrene-d10	22.23	188	90364	40.00	ug/ml	-0.35
64) Chrysene-d12	30.31	240	57405	40.00	ug/mL	-0.39
73) Perylene-d12	34.25	264	23394	40.00	ug/mL	-0.45
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.12	112	43975	49.01	ug/mL	49.01%
3) Phenol-d5	8.14	99	72439	50.61	ug/mL	50.61%
18) Nitrobenzene-d5	10.42	82	72866	51.80	ug/mL	51.80%
36) 2-Fluorobiphenyl	15.91	172	97613	50.85	ug/mL	50.85%
54) 2,4,6-Tribromophenol	20.20	330	14666	60.77	ug/mL	60.77%
67) Terphenyl-d14	27.36	244	77377	41.94	ug/mL	41.94%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.15	74	77244	135.08	ug/ml	100
6) Phenol	8.18	94	153731	117.41	ug/mL	100
7) bis(2-Chloroethyl)ether	12.17	93	187081	121.20	ug/mL	88
8) 2-Chlorophenol	8.14	128	109258	117.57	ug/mL#	81
9) 1,3-Dichlorobenzene	8.51	146	111126	116.67	ug/mL	98
10) 1,4-Dichlorobenzene	8.76	146	110282	113.00	ug/mL	96
11) 1,2-Dichlorobenzene	9.14	146	107878	114.99	ug/mL	96
12) 2-Methylphenol	9.88	108	104312	122.10	ug/mLm	98
13) bis(2-chloroisopropyl)ethe	9.80	45	171386	143.01	ug/mL#	85
14) 4-Methylphenol	10.40	108	115007	120.40	ug/mL	98
15) N-Nitroso-Di-n-propylamine	10.28	70	123864	126.42	ug/mL	94
16) Hexachloroethane	10.09	117	69400	121.28	ug/mL#	76
19) Nitrobenzene	10.49	77	147477	114.34	ug/mL	99
20) Isophorone	11.36	82	327700	115.17	ug/mLm	95
21) 2-Nitrophenol	11.42	139	77152	132.95	ug/mL#	94
22) 2,4-Dimethylphenol	11.92	107	127738	126.70	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.17	93	187081	120.48	ug/mL#	100
24) 2,4-Dichlorophenol	12.23	162	94341	125.29	ug/mL#	92
25) 1,2,4-Trichlorobenzene	12.35	180	96836	123.00	ug/mL	94
26) Naphthalene	12.52	128	326255	123.77	ug/mL	98
27) 4-Chloroaniline	12.89	127	147346	119.03	ug/mL	100
28) Hexachlorobutadiene	13.02	225	51692	128.71	ug/mL	99
29) 4-Chloro-3-methylphenol	14.60	107	123083	128.28	ug/mL#	60
30) 2-Chloronaphthalene	16.09	162	197694	127.64	ug/ml#	100
31) 2-Methylnaphthalene	14.64	142	274545	176.23	ug/mL	96
33) Hexachlorocyclopentadiene	15.16	237	60194	146.19	ug/mL#	96
34) 2,4,6-Trichlorophenol	15.64	196	90332	130.60	ug/mL	97
35) 2,4,5-Trichlorophenol	15.72	196	54995	93.88	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b8955.d
Acq On : 22 Oct 95 7:33 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 10:18 1995

Vial: 5
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.90	65	138140	135.05	ug/mL	88
38)	Dimethylphthalate	17.40	163	242759	120.83	ug/mL#	12
39)	Acenaphthylene	17.30	152	342901	122.91	ug/mL	97
40)	2,6-Dinitrotoluene	17.48	165	48493	91.22	ug/mL#	96
41)	3-Nitroaniline	19.78	138	59286	125.11	ug/mL	88
42)	Acenaphthene	17.86	153	190884	113.15	ug/mL	98
43)	2,4-Dinitrophenol	18.23	184	40770	204.04	ug/mL#	89
44)	4-Nitrophenol	18.71	109	42019	159.64	ug/mL#	54
45)	Dibenzofuran	18.42	168	296801	128.34	ug/mL	89
46)	2,4-Dinitrotoluene	18.66	165	94345	165.64	ug/mL#	1
47)	Diethylphthalate	19.62	149	290137	130.83	ug/mL#	92
48)	Fluorene	19.45	166	224635	124.55	ug/mL	98
49)	4-Chlorophenyl-phenylether	19.64	204	96095	119.28	ug/mL#	87
51)	4-Nitroaniline	19.78	138	59286	116.15	ug/mL	88
52)	4,6-Dinitro-2-methylphenol	19.89	198	39986	142.45	ug/mL	100
53)	n-Nitrosodiphenylamine	20.09	169	141300	118.05	ug/mL	94
55)	1,2-Diphenylhydrazine (as	20.12	77	478381	106.69	ug/ml	100
56)	4-Bromophenyl-phenylether	21.09	248	51369	104.17	ug/mL#	91
57)	Hexachlorobenzene	21.07	284	65026	117.30	ug/mL#	42
58)	Pentachlorophenol	21.78	266	45899	142.10	ug/mL	100
59)	Phenanthrene	22.33	178	298581	114.74	ug/mL	99
60)	Anthracene	22.48	178	287179	114.86	ug/mLm	99
61)	Carbazole	23.12	167	298791	124.42	ug/ml	96
62)	Di-n-butylphthalate	24.66	149	555739	116.35	ug/mL#	97
63)	Fluoranthene	25.91	202	302618	125.50	ug/mL#	71
65)	Benzidine	26.59	184	49499	100.44	ug/ml	100
66)	Pyrene	26.55	202	291218	92.80	ug/mL#	69
68)	Butylbenzylphthalate	29.15	149	219105	115.56	ug/mL#	13
69)	Benzo[a]anthracene	30.29	228	262300	142.20	ug/mL	99
70)	3,3'-Dichlorobenzidine	30.43	252	65850	167.10	ug/mL#	92
71)	Chrysene	30.35	228	152357	106.18	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	31.14	149	325654	122.80	ug/mL#	38
74)	Di-n-octylphthalate	33.03	149	406461	88.26	ug/mL#	100
75)	Benzo[b]fluoranthene	33.30	252	147288	117.50	ug/mL#	84
76)	Benzo[k]fluoranthene	33.38	252	78044	82.74	ug/mLm	84
77)	Benzo[a]pyrene	34.11	252	74349	108.18	ug/mLm	83
78)	Indeno[1,2,3-cd]pyrene	36.77	276	44660	147.50	ug/mL#	47
79)	Dibenz[a,h]anthracene	36.89	278	42251	173.22	ug/mL#	78
80)	Benzo[g,h,i]perylene	37.31	276	40459	156.30	ug/mLm	71

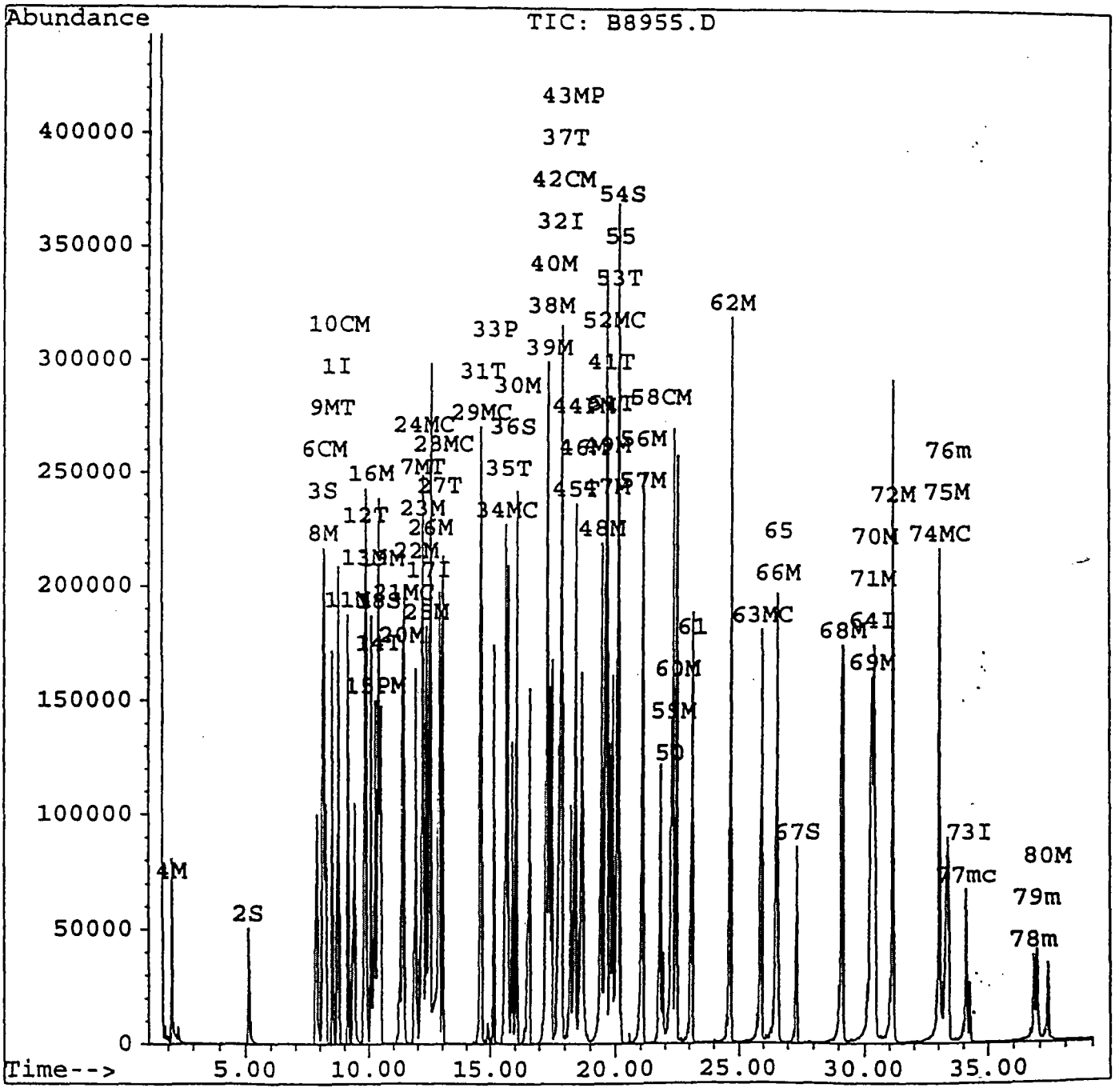
(#) = qualifier out of range (m)

Quantitation Report

Data File : c:\hpchem\1\data2\b8955.d
Acq On : 22 Oct 95 7:33 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Oct 25 10:18 1995

Vial: 5
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b8956.d
Acq On : 22 Oct 95 8:24 pm
Sample : 160 STD....
Misc :
Quant Time: Oct 25 10:17 1995

Converted from RTE d

Vial: 6
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.72	152	27386	40.00	ug/mL	-0.31
17) Naphthalene-d8	12.46	136	107758	40.00	ug/mL	-0.30
32) Acenaphthene-d10	17.76	164	64001	40.00	ug/mL	-0.32
50) Phenanthrene-d10	22.24	188	95140	40.00	ug/ml	-0.33
64) Chrysene-d12	30.32	240	58225	40.00	ug/mL	-0.37
73) Perylene-d12	34.24	264	21063	40.00	ug/mL	-0.45
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.13	112	44445	49.67	ug/mL	49.67%
3) Phenol-d5	8.16	99	75083	52.60	ug/mL	52.60%
18) Nitrobenzene-d5	10.43	82	72264	50.74	ug/mL	50.74%
36) 2-Fluorobiphenyl	15.91	172	99060	50.46	ug/mL	50.46%
54) 2,4,6-Tribromophenol	20.22	330	16295	64.13	ug/mL	64.13%
67) Terphenyl-d14	27.35	244	82703	44.20	ug/mL	44.20%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.17	74	103908	182.21	ug/ml	100
6) Phenol	8.21	94	225479	172.68	ug/mL	100
7) bis(2-Chloroethyl)ether	12.19	93	256181	166.42	ug/mL#	85
8) 2-Chlorophenol	8.16	128	146818	158.42	ug/mL#	83
9) 1,3-Dichlorobenzene	8.52	146	146004	153.71	ug/mL	97
10) 1,4-Dichlorobenzene	8.77	146	146889	150.93	ug/mL	96
11) 1,2-Dichlorobenzene	9.16	146	145353	155.36	ug/mL	97
12) 2-Methylphenol	9.89	108	140431	164.83	ug/mLm	98
13) bis(2-chloroisopropyl)ethe	9.91	45	341496	285.74	ug/mL#	1
14) 4-Methylphenol	10.43	108	147459	154.79	ug/mL	98
15) N-Nitroso-Di-n-propylamine	10.34	70	179120	183.32	ug/mL#	95
16) Hexachloroethane	10.10	117	94889	166.27	ug/mL#	68
19) Nitrobenzene	10.51	77	286692	219.52	ug/mL	90
20) Isophorone	11.42	82	441137	153.12	ug/mLm	92
21) 2-Nitrophenol	11.44	139	100411	170.88	ug/mL#	93
22) 2,4-Dimethylphenol	11.96	107	175209	171.62	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.19	93	256181	162.94	ug/mL#	100
24) 2,4-Dichlorophenol	12.27	162	129942	170.43	ug/mL#	91
25) 1,2,4-Trichlorobenzene	12.36	180	128880	161.68	ug/mL	94
26) Naphthalene	12.54	128	430569	161.32	ug/mL	98
27) 4-Chloroaniline	12.90	127	204994	163.55	ug/mL	100
28) Hexachlorobutadiene	13.02	225	66955	164.65	ug/mL	98
29) 4-Chloro-3-methylphenol	14.64	107	173471	178.55	ug/mL#	24
30) 2-Chloronaphthalene	16.10	162	277170	176.73	ug/ml#	100
31) 2-Methylnaphthalene	14.64	142	354781	224.91	ug/mL#	68
33) Hexachlorocyclopentadiene	15.16	237	78011	185.25	ug/mL	98
34) 2,4,6-Trichlorophenol	15.66	196	125669	177.65	ug/mL	96
35) 2,4,5-Trichlorophenol	15.74	196	69360	115.77	ug/mL	95

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

Quantitation Report

Data File : c:\hpchem\1\data2\b8956.d
Acq On : 22 Oct 95 8:24 pm
Sample : 160 STD....
Misc :
Quant Time: Oct 25 10:17 1995

Converted from RTE d

Vial: 6
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.94	65	215417	205.92	ug/mL	88
38)	Dimethylphthalate	17.44	163	341294	166.10	ug/mL#	12
39)	Acenaphthylene	17.32	152	455035	159.47	ug/mL	97
40)	2,6-Dinitrotoluene	17.51	165	62227	114.45	ug/mL#	92
41)	3-Nitroaniline	19.87	138	76342	157.52	ug/mL	90
42)	Acenaphthene	17.88	153	252605	146.41	ug/mL	98
43)	2,4-Dinitrophenol	18.29	184	61925	303.03	ug/mL#	73
44)	4-Nitrophenol	18.77	109	62124	230.78	ug/mL#	58
45)	Dibenzofuran	18.44	168	392936	166.13	ug/mL#	88
46)	2,4-Dinitrotoluene	18.71	165	89489	153.63	ug/mL#	1
47)	Diethylphthalate	19.66	149	374865	165.28	ug/mL	94
48)	Fluorene	19.46	166	301296	163.35	ug/mL	99
49)	4-Chlorophenyl-phenylether	19.68	204	121982	148.05	ug/mL#	70
51)	4-Nitroaniline	19.87	138	76342	142.05	ug/mL	90
52)	4,6-Dinitro-2-methylphenol	19.93	198	54285	183.68	ug/mL	100
53)	n-Nitrosodiphenylamine	20.10	169	191063	151.61	ug/mL	95
55)	1,2-Diphenylhydrazine (as	20.14	77	657253	139.22	ug/ml	100
56)	4-Bromophenyl-phenylether	21.10	248	64647	124.52	ug/mL#	84
57)	Hexachlorobenzene	21.09	284	89180	152.80	ug/mL#	34
58)	Pentachlorophenol	21.82	266	66850	196.57	ug/mL	98
59)	Phenanthrene	22.34	178	400329	146.12	ug/mL	99
60)	Anthracene	22.50	178	391392	148.69	ug/mLm	99
61)	Carbazole	23.13	167	408325	161.50	ug/ml	95
62)	Di-n-butylphthalate	24.65	149	736070	146.37	ug/mL#	98
63)	Fluoranthene	26.52	202	405072	159.56	ug/mL#	56
65)	Benzidine	26.60	184	67999	136.03	ug/ml	100
66)	Pyrene	26.52	202	404840	127.19	ug/mL#	69
68)	Butylbenzylphthalate	29.15	149	308513	160.42	ug/mL#	9
69)	Benzo[a]anthracene	30.30	228	338083	180.70	ug/mL	99
70)	3,3'-Dichlorobenzidine	30.44	252	84475	211.34	ug/mL#	93
71)	Chrysene	30.38	228	179795	123.54	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	31.13	149	408318	151.80	ug/mL#	37
74)	Di-n-octylphthalate	33.02	149	458843	110.66	ug/mL#	100
75)	Benzo[b]fluoranthene	33.31	252	156175	138.38	ug/mL#	83
76)	Benzo[k]fluoranthene	33.39	252	91964	108.29	ug/mLm	83
77)	Benzo[a]pyrene	34.10	252	88750	143.42	ug/mLm	83
78)	Indeno[1,2,3-cd]pyrene	36.78	276	49957	183.25	ug/mL#	44
79)	Dibenz[a,h]anthracene	36.90	278	50575	230.29	ug/mL#	79
80)	Benzo[g,h,i]perylene	37.32	276	46503	199.53	ug/mLm	69

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

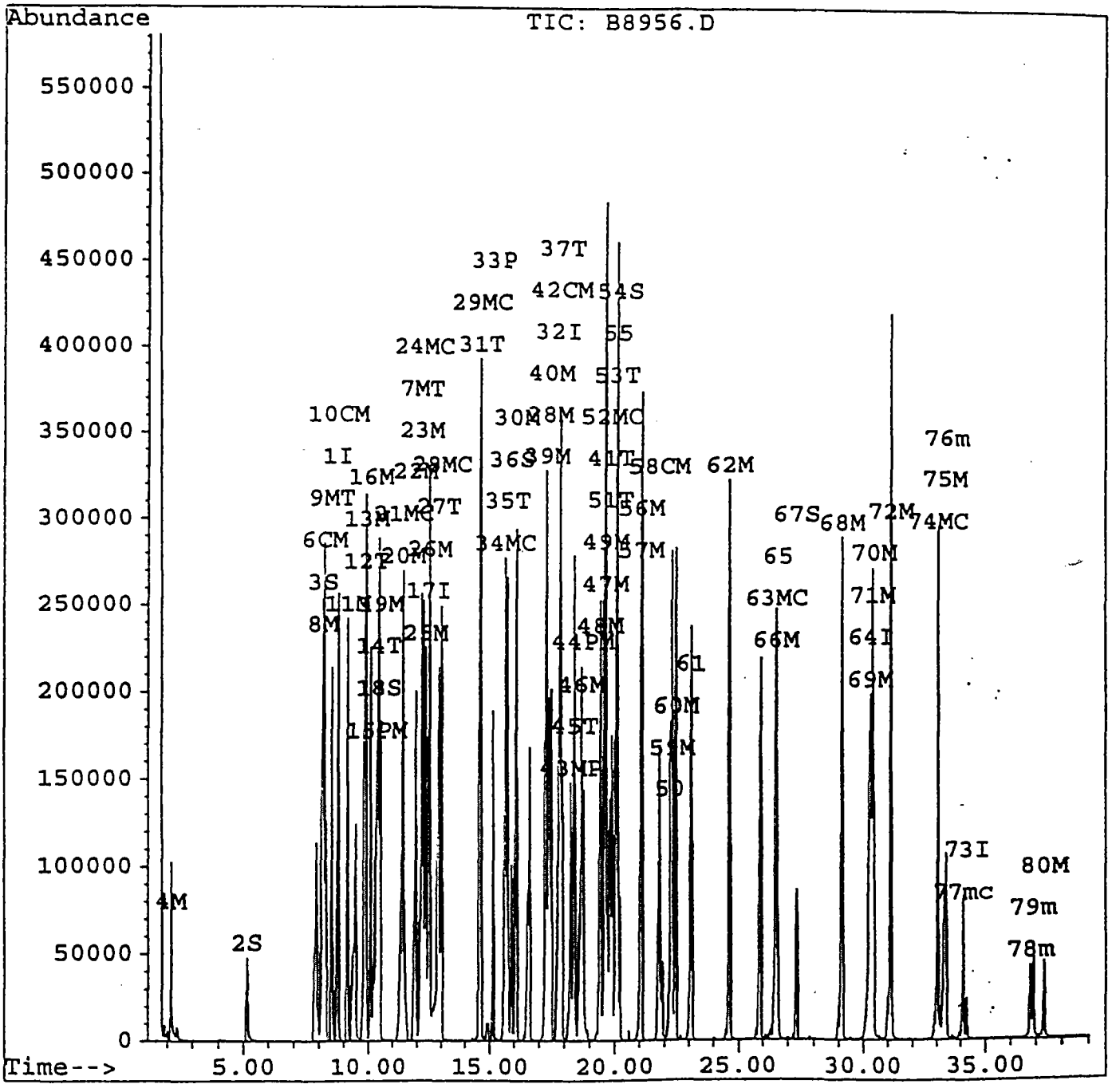
Quantitation Report

Data File : c:\hpchem\1\data2\b8956.d
Acq On : 22 Oct 95 8:24 pm
Sample : 160 STD....
Misc :
Quant Time: Oct 25 10:17 1995

Converted from RTE d

Vial: 6
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Thu Sep 21 12:47:27 1995
Response via : Multiple Level Calibration



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Nam EMSL Analytical Contract: _____

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

Lab File ID: B9453.D DFTPP Injection Date: 12/21/95

Instrument ID: ABNA DFTPP Injection Time: 1040

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		
51	30.0 - 80.0% of mass 198	41.0		
68	Less than 2.0% of mass 69	0.0	0.0	)1
69	Mass 69 relative abundance	60.5		
70	Less than 2.0% of mass 69	0.9	1.5	)1
127	25.0 - 75.0% of mass 198	41.5		
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	6.0		
275	10.0 - 30.0% of mass 198	19.0		
365	Greater than 0.75% of mass 198	2.6		
441	Present, but less than mass 443	105.0		
442	40.0 - 110.0% of mass 198	64.0		
443	15.0 - 24.0% of mass 442	11.5	17.9	)2

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

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

	EPA SAMPLE N	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
#		20 STANDARD	B9454	12/21/95	1127
#		50 STANDARD	B9455	12/21/95	1218
#		80 STANDARD	B9456	12/21/95	1310
#		120 STANDARD	B9457	12/21/95	1402
#		160 STANDARD	B9458	12/21/95	1454
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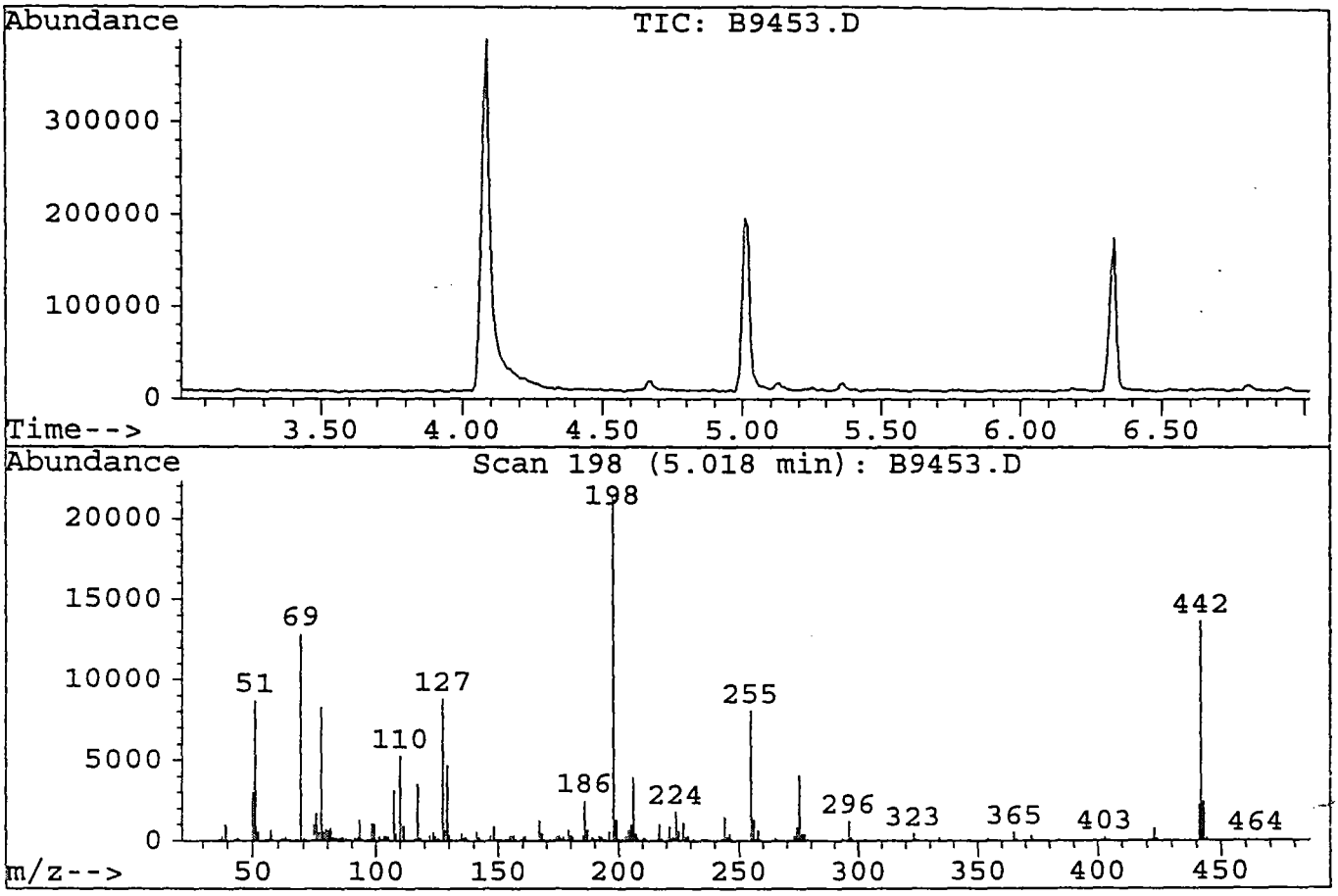
DFTPP

Data File : C:\HPCHEM\1\DATA2\B9453.D
Acq On : 21 Dec 95 10:40 am
Sample : DFTPP..... Converted from RTE d
Misc :

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration



Peak Apex is scan: 198

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	8742	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	60.5	12879	PASS
70	69	0	2	1.5	189	PASS
127	198	40	60	41.5	8838	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	21304	PASS
199	198	5	9	6.0	1278	PASS
275	198	10	30	19.0	4048	PASS
365	198	1	100	2.6	547	PASS
441	443	0	100	92.1	2247	PASS
442	198	40	100	64.0	13633	PASS
443	442	17	23	17.9	2441	PASS

Scan 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	62	49.95	3032	61.25	138	67.55	178
36.80	144	50.95	8742	61.45	122	68.95	12879
37.90	298	51.95	554	61.75	90	70.05	189
39.10	1022	53.65	49	62.05	77	72.15	18
40.60	12	54.15	21	62.85	289	72.85	127
42.10	38	54.95	139	63.85	80	74.05	1066
42.80	117	55.15	151	64.65	83	75.05	1774
43.95	188	55.85	375	65.15	81	76.05	565
47.15	52	56.95	679	66.45	101	77.05	8292
47.85	62	58.95	50	66.65	108	78.05	598
48.65	90	60.85	110	67.05	63	79.05	744

Scan 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.05	680	87.65	42	97.05	165	108.05	435
80.95	831	88.65	74	98.05	1101	109.95	5269
81.95	222	89.35	48	99.05	1040	111.05	935
82.35	95	91.05	253	99.95	102	111.95	82
82.55	93	92.05	219	101.05	281	112.65	60
83.05	208	92.95	1301	101.75	51	113.15	93
83.35	200	93.75	134	101.95	53	113.95	81
84.05	109	94.65	39	102.95	284	114.85	134
84.85	224	95.25	84	103.95	315	115.95	188
85.95	232	96.05	104	104.95	219	116.95	3544
87.05	173	96.65	120	107.05	3186	118.05	184

Scan 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.85	53	130.00	375	140.90	569	154.10	117
119.75	86	130.90	103	142.00	234	155.00	331
121.95	340	132.40	81	142.90	95	156.10	365
123.05	517	132.90	45	145.30	28	157.00	115
123.95	265	134.10	139	145.90	113	158.70	82
125.05	141	135.00	427	146.80	317	159.00	127
125.25	160	135.90	202	147.90	901	160.00	240
125.55	113	136.80	214	148.90	127	161.00	281
127.05	8838	137.70	36	150.00	68	161.70	30
127.95	709	139.50	56	151.00	118	162.80	47
129.05	4726	140.10	102	153.00	161	163.00	44

Scan 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
163.80	31	173.90	257	183.50	41	193.90	116
165.10	141	175.00	326	183.80	36	194.60	70
167.00	1310	176.00	154	185.00	346	196.10	579
168.00	493	176.90	292	186.00	2523	198.00	21304
168.70	76	178.00	70	187.00	724	199.00	1278
169.10	87	179.00	679	188.00	66	200.10	160
170.00	67	180.00	342	188.90	233	200.80	62
170.50	30	180.80	219	189.90	116	201.50	157
171.00	79	182.20	40	191.10	67	202.90	302
171.80	148	182.90	32	191.90	297	204.00	704
173.00	146	183.30	42	193.00	254	205.10	1039

Scan 198 (5.018 min): B9453.D
D TPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.00	3967	216.85	1060	229.95	60	239.85	20
207.10	429	217.85	161	230.95	129	240.15	30
207.90	206	220.95	883	231.25	90	240.95	85
208.90	35	222.05	188	233.55	48	242.05	88
210.40	181	222.95	247	234.05	78	242.75	150
210.90	175	223.95	1827	234.95	133	243.05	137
213.30	77	224.95	607	235.95	84	243.95	1490
214.00	11	225.85	93	236.75	104	244.95	274
214.60	101	226.95	1141	237.95	24	245.95	464
214.90	51	227.85	275	238.25	16	246.95	113
216.10	152	228.95	303	239.15	53	248.85	74

S an 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.85	69	260.75	23	274.95	4048	285.45	31
251.25	40	261.05	17	275.95	436	285.65	32
251.55	45	263.05	58	276.95	432	286.65	12
251.85	84	264.95	190	278.15	73	289.75	24
252.95	71	265.85	43	279.25	29	292.35	27
254.95	8092	267.65	37	280.15	34	293.15	153
255.95	1298	267.85	35	281.65	25	295.95	1227
256.95	174	269.65	37	282.75	54	296.85	184
257.95	677	271.95	89	282.95	52	298.25	22
258.75	70	272.95	341	283.95	32	298.55	23
258.95	76	273.95	849	285.05	67	300.45	52

Scan 198 (5.018 min): B9453.D
D TPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.75	42	311.80	50	321.80	57	334.90	58
301.05	35	312.70	49	322.10	50	335.70	31
302.05	91	314.00	58	323.00	465	336.90	16
302.70	116	314.60	95	323.80	96	340.30	23
303.10	132	314.90	117	324.10	75	342.00	26
303.70	48	315.80	55	327.90	72	343.20	13
305.50	41	318.20	71	330.90	19	343.80	26
308.00	76	318.60	33	331.20	19	345.90	111
308.60	40	318.90	27	332.00	75	350.80	37
309.80	43	319.60	36	333.10	74	352.00	103
311.50	30	320.90	64	333.90	248	353.10	107

Scan 198 (5.018 min): B9453.D
DFTPP..... Converted from RTE data file >B9453::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.10	160	371.00	60	389.65	29	404.15	89
355.00	32	372.10	302	389.85	31	410.75	31
356.00	30	372.70	53	390.75	18	412.95	23
357.20	46	372.90	68	393.65	37	414.95	33
359.00	32	374.10	33	393.95	34	416.35	42
363.80	20	374.50	19	394.95	12	416.75	27
364.90	547	379.00	91	396.35	39	420.95	87
366.00	111	381.70	28	400.35	16	421.85	94
369.90	32	383.00	105	401.05	47	422.05	94
370.10	36	383.70	18	401.85	126	422.95	792
370.50	30	384.00	25	402.95	226	423.85	170

Scan 198 (5.018 min): B9453.D
D TPP..... Converted from RTE data file >B9453::D5

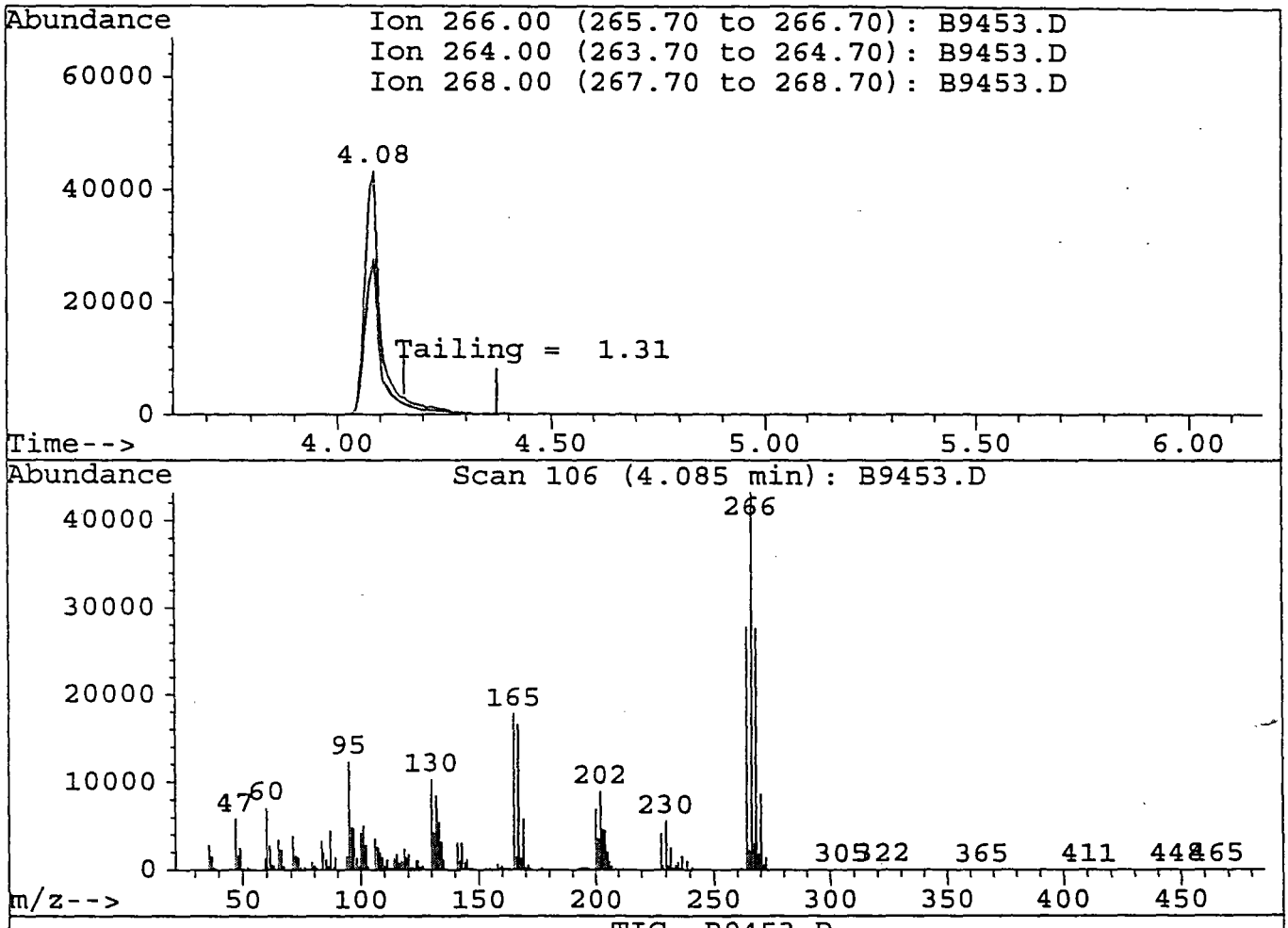
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
426.85	17	453.35	40				
435.05	42	459.15	23				
436.45	46	460.65	52				
437.35	29	464.35	85				
440.95	2247	468.05	39				
441.95	13633	470.25	26				
442.95	2441	472.05	20				
444.15	185						
449.05	27						
450.45	16						
451.05	12						

Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9453.D
Acq On : 21 Dec 95 10:40 am
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Dec 21 11:09 1995

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:21:54 1995
Response via : Multiple Level Calibration



TIC: B9453.D

(1) Pentachlorophenol (CM)

5.12min 1.14ug/mL

response 376

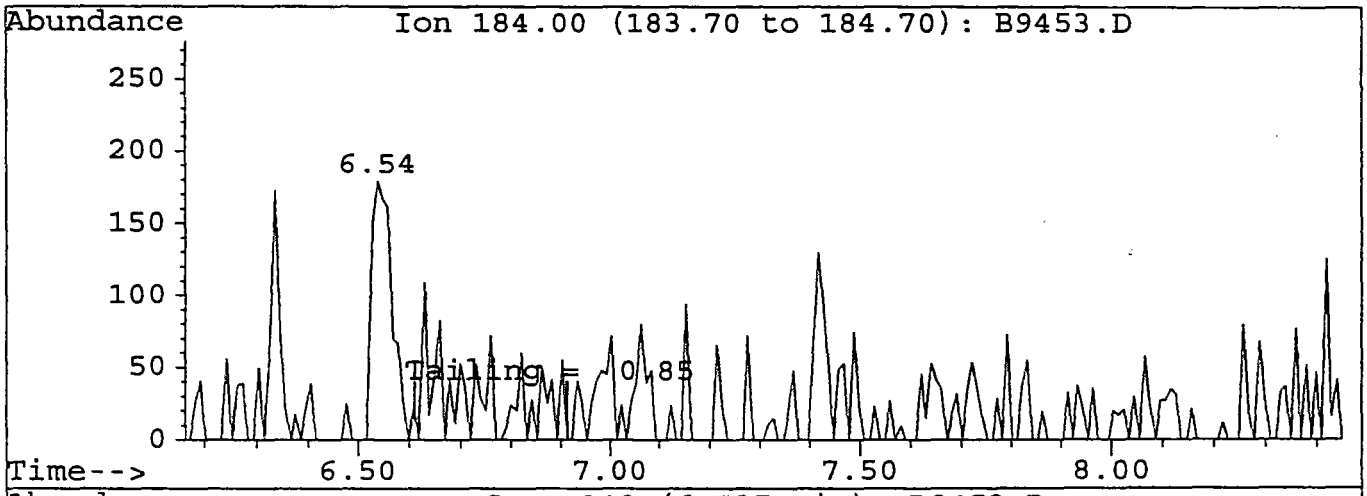
Ion	Exp%	Act%
266.00	100	100
264.00	64.30	33.51#
268.00	64.70	25.26#
0.00	0.00	0.00

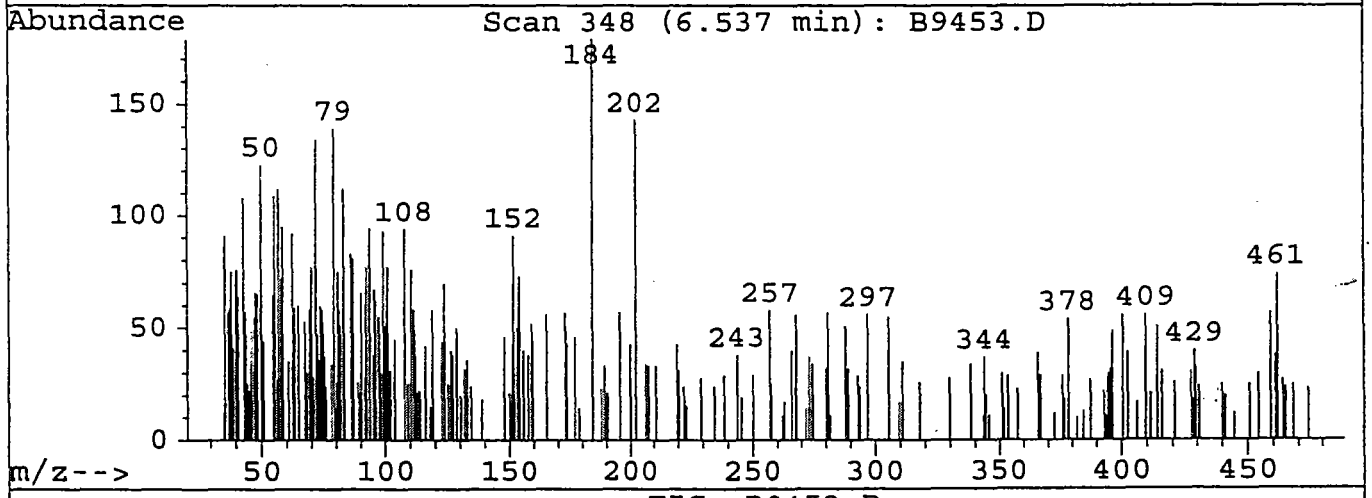
Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9453.D
Acq On : 21 Dec 95 10:40 am
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Dec 21 11:09 1995

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:21:54 1995
Response via : Multiple Level Calibration





TIC: B9453.D

(2) Benzidine
7.42min 0.67ug/ml
response 205

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:04:15 1995
Response via : Initial Calibration

Calibration Files
160 =B9458.D 120 =B9457.D 80 =B9456.D
50 =B9455.D 20 =B9454.D

		Compound	160	120	80	50	20	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
2)	S	2-Fluorophenol	1.228	1.184	1.154	1.079	0.994	1.128	8.21
3)	S	Phenol-d5	2.072	1.805	1.745	1.612	1.425	1.732	13.84
4)	M	N-nitrosodimethylamin	0.863	0.840	0.578	0.697	0.631	0.722	17.42
5)		Pyridine		3.013				3.013	0.00
6)	CM	Phenol	1.609	1.727	1.640	1.575	1.310	1.572	9.98
7)	MT	bis(2-Chloroethyl)eth	1.872	1.941	1.803	1.860	1.547	1.805	8.43
8)	M	2-Chlorophenol	1.300	1.350	1.289	1.318	1.202	1.292	4.28
9)	MT	1,3-Dichlorobenzene	1.365	1.409	1.336	1.361	1.301	1.354	2.94
10)	CM	1,4-Dichlorobenzene	1.360	1.457	1.372	1.415	1.375	1.396	2.87
11)	M	1,2-Dichlorobenzene	1.322	1.404	1.352	1.379	1.323	1.356	2.62
12)	T	2-Methylphenol	1.129	1.192	1.189	1.154	0.951	1.123	8.89
13)	M	bis(2-chloroisopropyl	1.954	1.967	1.222	1.242	1.456	1.568	23.57
14)	T	4-Methylphenol	1.290	1.306	1.304	1.244	1.106	1.250	6.75
15)	PM	N-Nitroso-Di-n-propyl	1.125	1.113	0.984	1.048	0.818	1.018	12.29
16)	M	Hexachloroethane	0.850	0.895	0.888	0.896	0.803	0.866	4.67
17)	I	Naphthalene-d8	----------ISTD----------						
18)	S	Nitrobenzene-d5	0.413	0.407	0.396	0.366	0.323	0.381	9.80
19)	M	Nitrobenzene	0.505	0.488	0.480	0.459	0.393	0.465	9.35
20)	M	Isophorone	0.739	0.723	0.702	0.689	0.603	0.691	7.61
21)	MC	2-Nitrophenol	0.212	0.213	0.207	0.213	0.182	0.205	6.47
22)	M	2,4-Dimethylphenol	0.371	0.362	0.360	0.356	0.323	0.355	5.20
23)	M	bis(2-Chloroethoxy)me	0.449	0.449	0.416	0.427	0.367	0.421	8.01
24)	MC	2,4-Dichlorophenol	0.259	0.267	0.272	0.289	0.258	0.269	4.63
25)	M	1,2,4-Trichlorobenzen	0.281	0.288	0.291	0.303	0.319	0.296	5.00
26)	M	Naphthalene	0.940	0.867	0.903	0.944	0.874	0.906	3.96
27)	T	4-Chloroaniline	0.426	0.447	0.436	0.406	0.378	0.419	6.49
28)	MC	Hexachlorobutadiene	0.173	0.186	0.175	0.193	0.199	0.185	6.05
29)	MC	4-Chloro-3-methylphen	0.344	0.345	0.334	0.339	0.289	0.330	7.10
30)	M	2-Chloronaphthalene	0.648	0.636	0.586	0.643	0.647	0.632	4.11
31)	T	2-Methylnaphthalene	0.661	0.595	0.602	0.601	0.587	0.609	4.82
32)	I	Acenaphthene-d10	----------ISTD----------						
33)	P	Hexachlorocyclopentad	0.346	0.354	0.344	0.348	0.283	0.335	8.73
34)	MC	2,4,6-Trichlorophenol	0.429	0.371	0.357	0.362	0.358	0.375	8.06
35)	T	2,4,5-Trichlorophenol	0.295	0.347	0.371	0.362	0.308	0.337	9.96
36)	S	2-Fluorobiphenyl	1.221	1.177	1.206	1.205	1.227	1.207	1.60
37)	T	2-Nitroaniline	0.424	0.435	0.481	0.378	0.274	0.399	19.68
38)	M	Dimethylphthalate	1.045	1.180	1.271	1.324	1.353	1.235	10.11
39)	M	Acenaphthylene	1.716	1.723	1.667	1.724	1.614	1.689	2.83
40)	M	2,6-Dinitrotoluene	0.270	0.290	0.308	0.315	0.279	0.292	6.48
41)	T	3-Nitroaniline	0.161	0.220	0.291	0.222	0.170	0.213	24.31

(#) = Out of Range

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:04:15 1995
Response via : Initial Calibration

Calibration Files
160 =B9458.D 120 =B9457.D 80 =B9456.D
50 =B9455.D 20 =B9454.D

		Compound	160	120	80	50	20	Avg	%RSD
42)	CM	Acenaphthene	1.079	1.071	1.018	1.069	1.026	1.053	2.71
43)	MP	2,4-Dinitrophenol	0.145	0.164	0.148	0.099		0.139	19.97
44)	PM	4-Nitrophenol	0.188	0.255	0.246	0.177		0.216	18.37
45)	T	Dibenzofuran	1.245	1.299	1.506	1.464	1.412	1.385	7.96
46)	M	2,4-Dinitrotoluene	0.330	0.391	0.424	0.329	0.281	0.351	16.06
47)	M	Diethylphthalate	1.135	1.322	1.391	1.397	1.423	1.334	8.78
48)	M	Fluorene	0.932	1.076	1.070	1.099	1.098	1.055	6.62
49)	M	4-Chlorophenyl-phenyl	0.413	0.466	0.482	0.506	0.515	0.476	8.46
50)		Phenanthrene-d10	----------ISTD----------						
51)	T	4-Nitroaniline	0.125	0.141	0.177	0.181	0.134	0.152	16.67
52)	MC	4,6-Dinitro-2-methylp	0.107	0.151	0.146	0.116	0.088	0.122	21.65
53)	T	n-Nitrosodiphenylamin	0.453	0.426	0.406	0.540	0.533	0.472	13.03
54)	S	2,4,6-Tribromophenol	0.243	0.231	0.221	0.250	0.238	0.237	4.72
55)		1,2-Diphenylhydrazine	1.271	1.193	1.107	1.356	1.180	1.221	7.79
56)	M	4-Bromophenyl-phenyle	0.236	0.223	0.220	0.278	0.254	0.242	9.95
57)	M	Hexachlorobenzene	0.352	0.339	0.320	0.366	0.294	0.334	8.32
58)	CM	Pentachlorophenol	0.207	0.207	0.183	0.146		0.186	15.51
59)	M	Phenanthrene	1.071	1.035	1.013	1.045	0.977	1.028	3.42
60)	M	Anthracene	1.067	1.012	1.026	1.052	0.943	1.020	4.69
61)		Carbazole	0.975	1.004	0.959	0.823	0.563	0.865	21.12
62)	M	Di-n-butylphthalate	1.840	1.863	1.901	1.738	1.445	1.757	10.52
63)	MC	Fluoranthene	1.176	1.195	1.252	1.065	0.850	1.108	14.37
64)	I	Chrysene-d12	----------ISTD----------						
65)		Benzidine	0.015	0.010	0.009	0.011		0.011#	22.14
66)	M	Pyrene	1.369	1.312	1.259	1.189	0.974	1.221	12.54
67)	S	Terphenyl-d14	1.083	1.022	0.997	0.890	0.809	0.960	11.40
68)	M	Butylbenzylphthalate	0.888	0.877	0.834	0.818	0.684	0.820	9.95
69)	M	Benzo[a]anthracene	1.350	1.271	1.156	1.092	0.964	1.167	12.95
70)	M	3,3'-Dichlorobenzidin	0.394	0.506	0.385	0.375	0.368	0.406	14.09
71)	M	Chrysene	0.724	0.830	0.895	0.958	0.975	0.876	11.71
72)	M	bis(2-Ethylhexyl)phth	1.266	1.226	1.169	1.140	1.004	1.161	8.63
73)	I	Perylene-d12	----------ISTD----------						
74)	MC	Di-n-octylphthalate	3.247	3.396	3.061	2.567		3.068	11.75
75)	M	Benzo[b]fluoranthene	1.411	1.440	1.591	1.328	1.036	1.361	15.07
76)	m	Benzo[k]fluoranthene	1.350	0.971	1.142	1.177	1.138	1.156	11.68
77)	mc	Benzo[a]pyrene	1.067	1.059	1.152	1.008	0.917	1.041	8.30
78)	m	Indeno[1,2,3-cd]pyren	0.513	0.520	0.606	0.513	0.537	0.538	7.33
79)	m	Dibenz[a,h]anthracene	0.545	0.524	0.616	0.530	0.501	0.543	8.04
80)	M	Benzo[g,h,i]perylene	0.433	0.511	0.614	0.445	0.471	0.495	14.80

(#) = Out of Range

Quantitation Report

Data File : c:\hpchem\1\data2\b9454.d Vial: 2
Acq On : 21 Dec 95 11:27 am Operator: SCOTTV
Sample : 20 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.28	152	7662	40.00	ug/mL	-0.56
17) Naphthalene-d8	11.01	136	32322	40.00	ug/mL	-0.56
32) Acenaphthene-d10	16.25	164	19863	40.00	ug/mL	-0.58
50) Phenanthrene-d10	20.64	188	25176	40.00	ug/ml	-0.61
64) Chrysene-d12	28.61	240	22480	40.00	ug/mL	-0.63
73) Perylene-d12	32.56	264	20050	40.00	ug/mL	-0.60
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.54	112	9517	43.63	ug/mL	43.63%
3) Phenol-d5	6.82	99	13651	37.58	ug/mL	37.58%
18) Nitrobenzene-d5	9.01	82	13036	33.75	ug/mL	33.75%
36) 2-Fluorobiphenyl	14.50	172	30473	57.71	ug/mL	57.71%
54) 2,4,6-Tribromophenol	18.66	330	7498	67.67	ug/mL	67.67%
67) Terphenyl-d14	25.78	244	22736	36.68	ug/mL	36.68%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.43	74	2412	14.76	ug/ml	100
6) Phenol	6.85	94	5020	15.89	ug/mL	100
7) bis(2-Chloroethyl)ether	10.80	93	5927	14.35	ug/mL	89
8) 2-Chlorophenol	6.72	128	4605	18.47	ug/mL#	89
9) 1,3-Dichlorobenzene	7.05	146	4983	19.23	ug/mL#	94
10) 1,4-Dichlorobenzene	7.32	146	5266	20.08	ug/mL	98
11) 1,2-Dichlorobenzene	7.70	146	5069	19.48	ug/mL	98
12) 2-Methylphenol	8.57	108	3642	15.61	ug/mLm	89
13) bis(2-chloroisopropyl)ethe	8.53	45	5577	12.97	ug/mLm	95
14) 4-Methylphenol	9.09	108	4236	16.93	ug/mL	89
15) N-Nitroso-Di-n-propylamine	8.84	70	3134	11.62	ug/mL#	87
16) Hexachloroethane	8.67	117	3075	19.39	ug/mL#	76
19) Nitrobenzene	9.05	77	6355	14.06	ug/mL#	62
20) Isophorone	9.88	82	9752	15.67	ug/mL	99
21) 2-Nitrophenol	9.99	139	2943	16.91	ug/mL#	79
22) 2,4-Dimethylphenol	10.59	107	5223	17.01	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.80	93	5927	14.19	ug/mL#	100
24) 2,4-Dichlorophenol	10.86	162	4169	18.64	ug/mL	94
25) 1,2,4-Trichlorobenzene	10.94	180	5150	20.39	ug/mL	92
26) Naphthalene	11.07	128	14124	18.24	ug/mL	98
27) 4-Chloroaniline	11.50	127	6115	16.97	ug/mL	97
28) Hexachlorobutadiene	11.63	225	3208	21.16	ug/mL	97
29) 4-Chloro-3-methylphenol	13.32	107	4666	14.54	ug/mL	95
30) 2-Chloronaphthalene	14.61	162	10449	18.67	ug/ml#	100
31) 2-Methylnaphthalene	13.19	142	9490	13.99	ug/mL	99
33) Hexachlorocyclopentadiene	13.73	237	2810	21.10	ug/mL	93
34) 2,4,6-Trichlorophenol	14.23	196	3554	20.37	ug/mL	88
35) 2,4,5-Trichlorophenol	14.38	196	3056	17.26	ug/mL	92

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9454.d Vial: 2
Acq On : 21 Dec 95 11:27 am Operator: SCOTTV
Sample : 20 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.42	65	2724	8.44	ug/mL	91
38)	Dimethylphthalate	15.94	163	13442	19.82	ug/mL#	12
39)	Acenaphthylene	15.79	152	16031	20.09	ug/mL	97
40)	2,6-Dinitrotoluene	16.00	165	2773	16.62	ug/mL#	87
41)	3-Nitroaniline	18.23	138	1691	10.46	ug/mL	87
42)	Acenaphthene	16.33	153	10185	20.10	ug/mL	96
43)	2,4-Dinitrophenol	10.94	184	777	8.57	ug/mLm	91
44)	4-Nitrophenol	17.48	109	787	6.76	ug/mLm	76
45)	Dibenzofuran	16.89	168	14025	19.72	ug/mL#	86
46)	2,4-Dinitrotoluene	17.16	165	2795	12.19	ug/mL#	1
47)	Diethylphthalate	18.14	149	14134	19.00	ug/mL#	93
48)	Fluorene	17.91	166	10906	19.53	ug/mL	98
49)	4-Chlorophenyl-phenylether	18.14	204	5114	19.37	ug/mL#	88
51)	4-Nitroaniline	18.23	138	1691	15.00	ug/mL	87
52)	4,6-Dinitro-2-methylphenol	18.33	198	1110	13.48	ug/mL	100
53)	n-Nitrosodiphenylamine	18.56	169	6704	25.12	ug/mL	96
55)	1,2-Diphenylhydrazine (as	18.60	77	14848	19.77	ug/ml	100
56)	4-Bromophenyl-phenylether	19.56	248	3203	24.35	ug/mL	93
57)	Hexachlorobenzene	19.47	284	3706	20.06	ug/mL	96
58)	Pentachlorophenol	20.26	266	1247	10.87	ug/mL	91
59)	Phenanthrene	20.70	178	12303	19.77	ug/mL	93
60)	Anthracene	20.85	178	11874	18.90	ug/mLm	93
61)	Carbazole	21.56	167	7085	11.83	ug/ml	97
62)	Di-n-butylphthalate	23.16	149	18189	15.79	ug/mL	99
63)	Fluoranthene	24.26	202	10702	15.57	ug/mLm	98
65)	Benzidine	20.31	184	79	1.21	ug/mlm	100
66)	Pyrene	24.86	202	10946	13.15	ug/mL	94
68)	Butylbenzylphthalate	27.61	149	7686	12.60	ug/mL#	28
69)	Benzo[a]anthracene	28.59	228	10834	15.38	ug/mL	99
70)	3,3'-Dichlorobenzidine	28.82	252	4132	18.98	ug/mL	96
71)	Chrysene	28.67	228	10955	21.54	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	29.63	149	11290	13.50	ug/mL#	28
74)	Di-n-octylphthalate	31.52	149	18880	8.88	ug/mL#	100
75)	Benzo[b]fluoranthene	31.59	252	10387	12.77	ug/mLm	96
76)	Benzo[k]fluoranthene	31.69	252	11411	18.67	ug/mL	96
77)	Benzo[a]pyrene	32.40	252	9191	17.76	ug/mLm	96
78)	Indeno[1,2,3-cd]pyrene	35.04	276	5380	14.75	ug/mL	90
79)	Dibenz[a,h]anthracene	35.19	278	5024	14.06	ug/mL	97
80)	Benzo[g,h,i]perylene	35.58	276	4721	12.99	ug/mLm	90

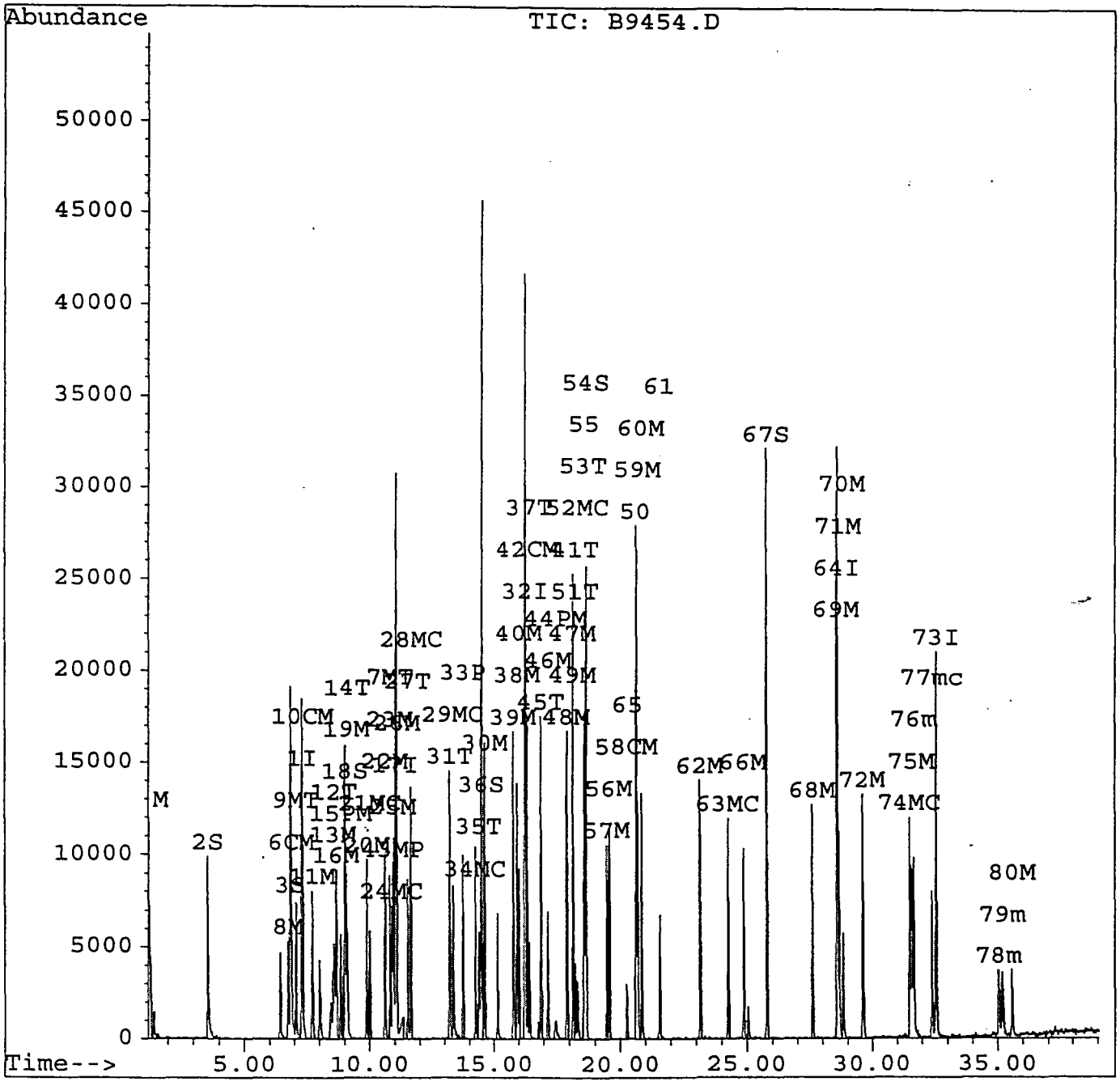
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9454.d
Acq On : 21 Dec 95 11:27 am
Sample : 20 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 12:00 1995

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9455.d Vial: 3
Acq On : 21 Dec 95 12:18 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 11:51 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.28	152	8004	40.00	ug/mL	-0.56
17) Naphthalene-d8	11.04	136	34892	40.00	ug/mL	-0.54
32) Acenaphthene-d10	16.26	164	20965	40.00	ug/mL	-0.58
50) Phenanthrene-d10	20.65	188	25751	40.00	ug/ml	-0.60
64) Chrysene-d12	28.62	240	23396	40.00	ug/mL	-0.63
73) Perylene-d12	32.55	264	16072	40.00	ug/mL	-0.61
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.55	112	10796	47.38	ug/mL	47.38%
3) Phenol-d5	6.84	99	16130	42.51	ug/mL	42.51%
18) Nitrobenzene-d5	9.01	82	15954	38.26	ug/mL	38.26%
36) 2-Fluorobiphenyl	14.50	172	31574	56.65	ug/mL	56.65%
54) 2,4,6-Tribromophenol	18.66	330	8050	71.03	ug/mL	71.03%
67) Terphenyl-d14	25.79	244	26040	40.36	ug/mL	40.36%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.43	74	6976	40.87	ug/mlm	100
6) Phenol	6.88	94	15753	47.74	ug/mL	100
7) bis(2-Chloroethyl)ether	10.82	93	18609	43.12	ug/mL	89
8) 2-Chlorophenol	6.72	128	13188	50.62	ug/mL	90
9) 1,3-Dichlorobenzene	7.07	146	13616	50.29	ug/mL	99
10) 1,4-Dichlorobenzene	7.34	146	14161	51.68	ug/mL	97
11) 1,2-Dichlorobenzene	7.72	146	13798	50.75	ug/mL	98
12) 2-Methylphenol	8.59	108	11542	47.35	ug/mLm	97
13) bis(2-chloroisopropyl)ethe	8.47	45	12427	27.66	ug/mL#	93
14) 4-Methylphenol	9.11	108	12447	47.61	ug/mL	97
15) N-Nitroso-Di-n-propylamine	8.88	70	10482	37.21	ug/mL	88
16) Hexachloroethane	8.67	117	8967	54.11	ug/mL#	77
19) Nitrobenzene	9.07	77	20011	41.02	ug/mL#	77
20) Isophorone	9.92	82	30040	44.71	ug/mL	97
21) 2-Nitrophenol	10.02	139	9284	49.41	ug/mL#	80
22) 2,4-Dimethylphenol	10.61	107	15516	46.80	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.82	93	18609	41.28	ug/mL#	100
24) 2,4-Dichlorophenol	10.88	162	12585	52.13	ug/mL	95
25) 1,2,4-Trichlorobenzene	10.94	180	13201	48.41	ug/mL	94
26) Naphthalene	11.09	128	41172	49.27	ug/mL	100
27) 4-Chloroaniline	11.52	127	17713	45.52	ug/mL	94
28) Hexachlorobutadiene	11.63	225	8430	51.52	ug/mL	95
29) 4-Chloro-3-methylphenol	13.33	107	14771	42.63	ug/mL	92
30) 2-Chloronaphthalene	14.62	162	28046	46.42	ug/ml#	100
31) 2-Methylnaphthalene	13.21	142	26210	35.80	ug/mL	99
33) Hexachlorocyclopentadiene	13.73	237	9109	64.81	ug/mL	99
34) 2,4,6-Trichlorophenol	14.25	196	9481	51.47	ug/mL	99
35) 2,4,5-Trichlorophenol	14.37	196	9487	50.77	ug/mL	98

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9455.d
Acq On : 21 Dec 95 12:18 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 11:51 1995

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.45	65	9916	29.09	ug/mL	92
38)	Dimethylphthalate	15.97	163	34709	48.48	ug/mL#	12
39)	Acenaphthylene	15.79	152	45172	53.64	ug/mL	99
40)	2,6-Dinitrotoluene	16.04	165	8250	46.84	ug/mL#	99
41)	3-Nitroaniline	18.30	138	5812	34.06	ug/mL#	77
42)	Acenaphthene	16.35	153	28015	52.38	ug/mL	96
43)	2,4-Dinitrophenol	16.78	184	2600	27.17	ug/mLm	71
44)	4-Nitrophenol	17.43	109	4634	37.73	ug/mLm	78
45)	Dibenzofuran	16.91	168	38364	51.10	ug/mL#	84
46)	2,4-Dinitrotoluene	17.18	165	8614	35.59	ug/mL#	1
47)	Diethylphthalate	18.16	149	36616	46.63	ug/mL	95
48)	Fluorene	17.91	166	28788	48.84	ug/mL	94
49)	4-Chlorophenyl-phenylether	18.16	204	13265	47.61	ug/mL#	73
51)	4-Nitroaniline	18.30	138	5812	50.41	ug/mL	77
52)	4,6-Dinitro-2-methylphenol	18.35	198	3739	44.38	ug/mL	100
53)	n-Nitrosodiphenylamine	18.59	169	17383	63.67	ug/mL	99
55)	1,2-Diphenylhydrazine (as	18.61	77	43654	56.83	ug/ml	100
56)	4-Bromophenyl-phenylether	19.57	248	8944	66.47	ug/mL	93
57)	Hexachlorobenzene	19.49	284	11769	62.27	ug/mL#	78
58)	Pentachlorophenol	20.26	266	4704	40.08	ug/mL	97
59)	Phenanthrene	20.72	178	33635	52.84	ug/mL	99
60)	Anthracene	20.88	178	33856	52.67	ug/mLm	99
61)	Carbazole	21.57	167	26489	43.23	ug/ml	94
62)	Di-n-butylphthalate	23.17	149	55929	47.47	ug/mL#	98
63)	Fluoranthene	24.27	202	34277	48.75	ug/mLm	83
65)	Benzidine	20.32	184	317	4.67	ug/mlm	100
66)	Pyrene	24.88	202	34777	40.14	ug/mL	95
68)	Butylbenzylphthalate	27.62	149	23933	37.69	ug/mL#	25
69)	Benzo[a]anthracene	28.60	228	31934	43.56	ug/mL	97
70)	3,3'-Dichlorobenzidine	28.83	252	10964	48.40	ug/mL	97
71)	Chrysene	28.69	228	28025	52.95	ug/mLm	97
72)	bis(2-Ethylhexyl)phthalate	29.62	149	33349	38.30	ug/mL#	19
74)	Di-n-octylphthalate	31.51	149	51581	30.27	ug/mL#	100
75)	Benzo[b]fluoranthene	31.60	252	26682	40.92	ug/mL	99
76)	Benzo[k]fluoranthene	31.68	252	23647	48.26	ug/mLm	99
77)	Benzo[a]pyrene	32.39	252	20248	48.82	ug/mLm	99
78)	Indeno[1,2,3-cd]pyrene	35.05	276	10316	35.28	ug/mL	96
79)	Dibenz[a,h]anthracene	35.18	278	10651	37.19	ug/mL	95
80)	Benzo[g,h,i]perylene	35.57	276	8932	30.66	ug/mLm	97

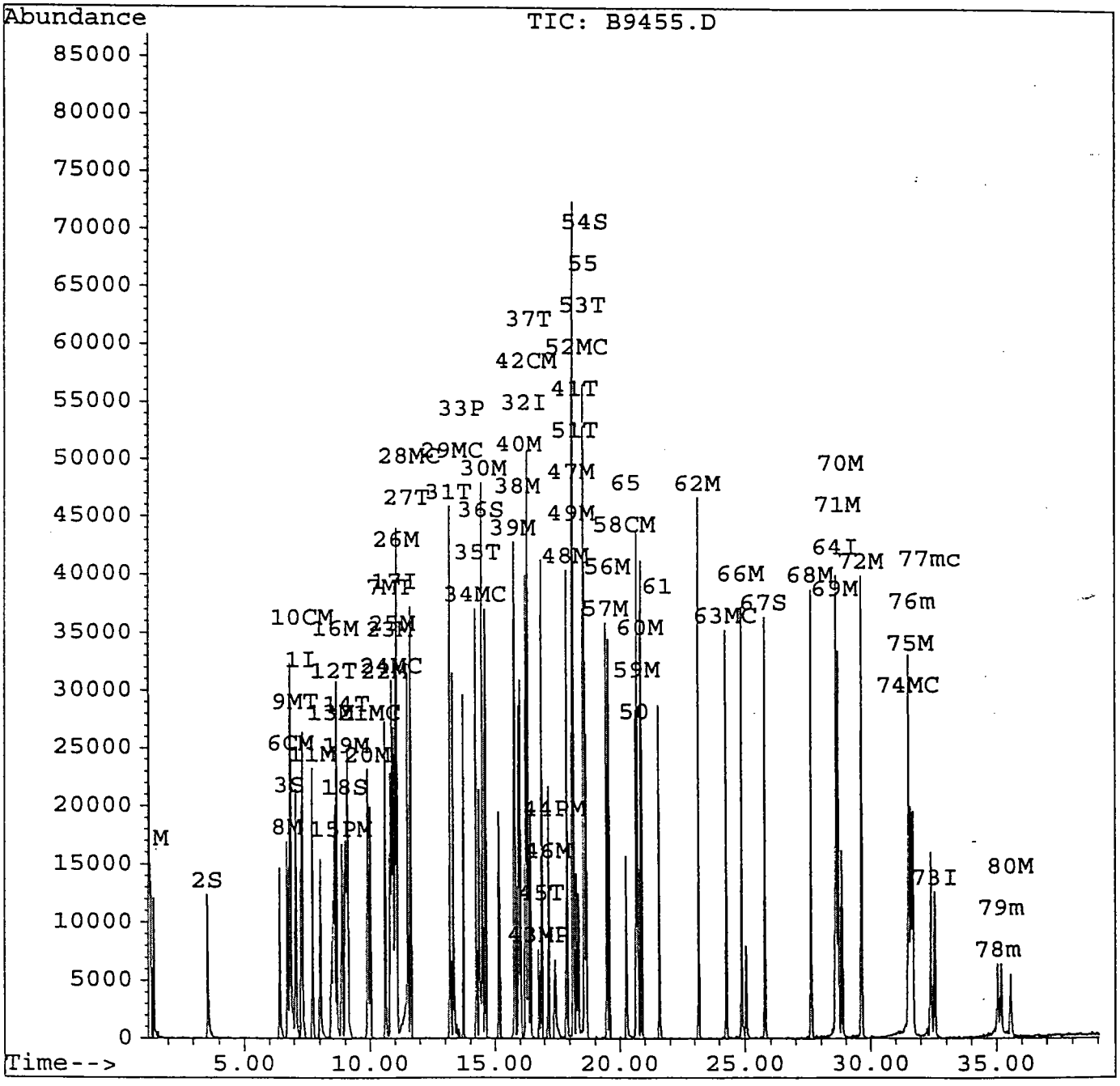
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9455.d
Acq On : 21 Dec 95 12:18 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 11:51 1995

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9456.d Vial: 4
Acq On : 21 Dec 95 1:10 pm Operator: SCOTTV
Sample : 80 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.28	152	8895	40.00	ug/mL	-0.55
17) Naphthalene-d8	11.04	136	38554	40.00	ug/mL	-0.53
32) Acenaphthene-d10	16.28	164	23163	40.00	ug/mL	-0.55
50) Phenanthrene-d10	20.68	188	38104	40.00	ug/ml	-0.57
64) Chrysene-d12	28.65	240	38515	40.00	ug/mL	-0.59
73) Perylene-d12	32.54	264	22559	40.00	ug/mL	-0.61
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.57	112	12835	50.68	ug/mL	50.68%
3) Phenol-d5	6.86	99	19407	46.02	ug/mL	46.02%
18) Nitrobenzene-d5	9.04	82	19101	41.46	ug/mL	41.46%
36) 2-Fluorobiphenyl	14.51	172	34911	56.70	ug/mL	56.70%
54) 2,4,6-Tribromophenol	18.69	330	10517	62.72	ug/mL	62.72%
67) Terphenyl-d14	25.80	244	48017	45.21	ug/mL	45.21%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.43	74	10289	54.25	ug/ml	100
6) Phenol	6.90	94	29184	79.59	ug/mL	100
7) bis(2-Chloroethyl)ether	10.85	93	32076	66.88	ug/mL	94
8) 2-Chlorophenol	6.73	128	22932	79.21	ug/mL	94
9) 1,3-Dichlorobenzene	7.07	146	23775	79.02	ug/mL	92
10) 1,4-Dichlorobenzene	7.34	146	24405	80.15	ug/mL	97
11) 1,2-Dichlorobenzene	7.73	146	24045	79.58	ug/mL	98
12) 2-Methylphenol	8.61	108	21155	78.09	ug/mLm	99
13) bis(2-chloroisopropyl)ethe	8.50	45	21748	43.55	ug/mL	98
14) 4-Methylphenol	9.13	108	23194	79.83	ug/mL	99
15) N-Nitroso-Di-n-propylamine	8.92	70	17507	55.93	ug/mL	94
16) Hexachloroethane	8.67	117	15793	85.76	ug/mL#	80
19) Nitrobenzene	9.10	77	37043	68.72	ug/mL#	82
20) Isophorone	9.96	82	54123	72.91	ug/mL	96
21) 2-Nitrophenol	10.04	139	15978	76.96	ug/mL#	84
22) 2,4-Dimethylphenol	10.65	107	27775	75.81	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.85	93	32076	64.40	ug/mL#	100
24) 2,4-Dichlorophenol	10.91	162	20955	78.56	ug/mL	99
25) 1,2,4-Trichlorobenzene	10.96	180	22417	74.40	ug/mL	95
26) Naphthalene	11.10	128	69662	75.44	ug/mL	100
27) 4-Chloroaniline	11.54	127	33624	78.21	ug/mL	99
28) Hexachlorobutadiene	11.64	225	13513	74.73	ug/mL	99
29) 4-Chloro-3-methylphenol	13.33	107	25746	67.24	ug/mL	98
30) 2-Chloronaphthalene	14.64	162	45214	67.73	ug/ml#	100
31) 2-Methylnaphthalene	13.22	142	46386	57.34	ug/mL	96
33) Hexachlorocyclopentadiene	13.74	237	15949	102.71	ug/mL	99
34) 2,4,6-Trichlorophenol	14.26	196	16557	81.36	ug/mL	97
35) 2,4,5-Trichlorophenol	14.35	196	17168	83.15	ug/mL	93

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9456.d Vial: 4
Acq On : 21 Dec 95 1:10 pm Operator: SCOTTV
Sample : 80 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.47	65	22280	59.17	ug/mL	85
38)	Dimethylphthalate	16.01	163	58869	74.42	ug/mL#	12
39)	Acenaphthylene	15.82	152	77218	82.99	ug/mL	99
40)	2,6-Dinitrotoluene	16.07	165	14251	73.23	ug/mL#	100
41)	3-Nitroaniline	18.36	138	13461	71.40	ug/mL#	83
42)	Acenaphthene	16.38	153	47163	79.81	ug/mL	97
43)	2,4-Dinitrophenol	16.80	184	6858	64.88	ug/mL	89
44)	4-Nitrophenol	17.42	109	11409	84.07	ug/mL#	78
45)	Dibenzofuran	16.92	168	69770	84.11	ug/mL	89
46)	2,4-Dinitrotoluene	17.21	165	19651	73.48	ug/mL#	1
47)	Diethylphthalate	18.19	149	64429	74.26	ug/mL	95
48)	Fluorene	17.94	166	49570	76.12	ug/mL	96
49)	4-Chlorophenyl-phenylether	18.17	204	22315	72.49	ug/mL#	81
51)	4-Nitroaniline	18.36	138	13461	78.91	ug/mL	83
52)	4,6-Dinitro-2-methylphenol	18.42	198	11092	88.97	ug/mL	100
53)	n-Nitrosodiphenylamine	18.61	169	30957	76.63	ug/mL	97
55)	1,2-Diphenylhydrazine (as	18.63	77	84354	74.22	ug/ml	100
56)	4-Bromophenyl-phenylether	19.60	248	16761	84.18	ug/mL#	83
57)	Hexachlorobenzene	19.52	284	24393	87.22	ug/mL#	67
58)	Pentachlorophenol	20.29	266	13970	80.43	ug/mL	97
59)	Phenanthrene	20.75	178	77201	81.97	ug/mLm	99
60)	Anthracene	20.91	178	78172	82.19	ug/mL	99
61)	Carbazole	21.60	167	73111	80.63	ug/ml	95
62)	Di-n-butylphthalate	23.18	149	144908	83.12	ug/mL	99
63)	Fluoranthene	24.30	202	95434	91.73	ug/mLm	81
65)	Benzidine	20.33	184	688	6.15	ug/mlm	100
66)	Pyrene	24.91	202	97013	68.01	ug/mL#	90
68)	Butylbenzylphthalate	27.63	149	64270	61.48	ug/mL#	23
69)	Benzo[a]anthracene	28.61	228	89034	73.77	ug/mL	100
70)	3,3'-Dichlorobenzidine	28.84	252	29641	79.48	ug/mL#	93
71)	Chrysene	28.71	228	68904	79.08	ug/mLm	100
72)	bis(2-Ethylhexyl)phthalate	29.63	149	90066	62.84	ug/mL#	28
74)	Di-n-octylphthalate	31.52	149	138120	57.74	ug/mL#	100
75)	Benzo[b]fluoranthene	31.62	252	71800	78.45	ug/mL	99
76)	Benzo[k]fluoranthene	31.69	252	51514	74.90	ug/mLm	99
77)	Benzo[a]pyrene	32.41	252	51963	89.25	ug/mLm	99
78)	Indeno[1,2,3-cd]pyrene	35.04	276	27346	66.62	ug/mL	99
79)	Dibenz[a,h]anthracene	35.18	278	27796	69.14	ug/mL	95
80)	Benzo[g,h,i]perylene	35.56	276	27708	67.77	ug/mLm	99

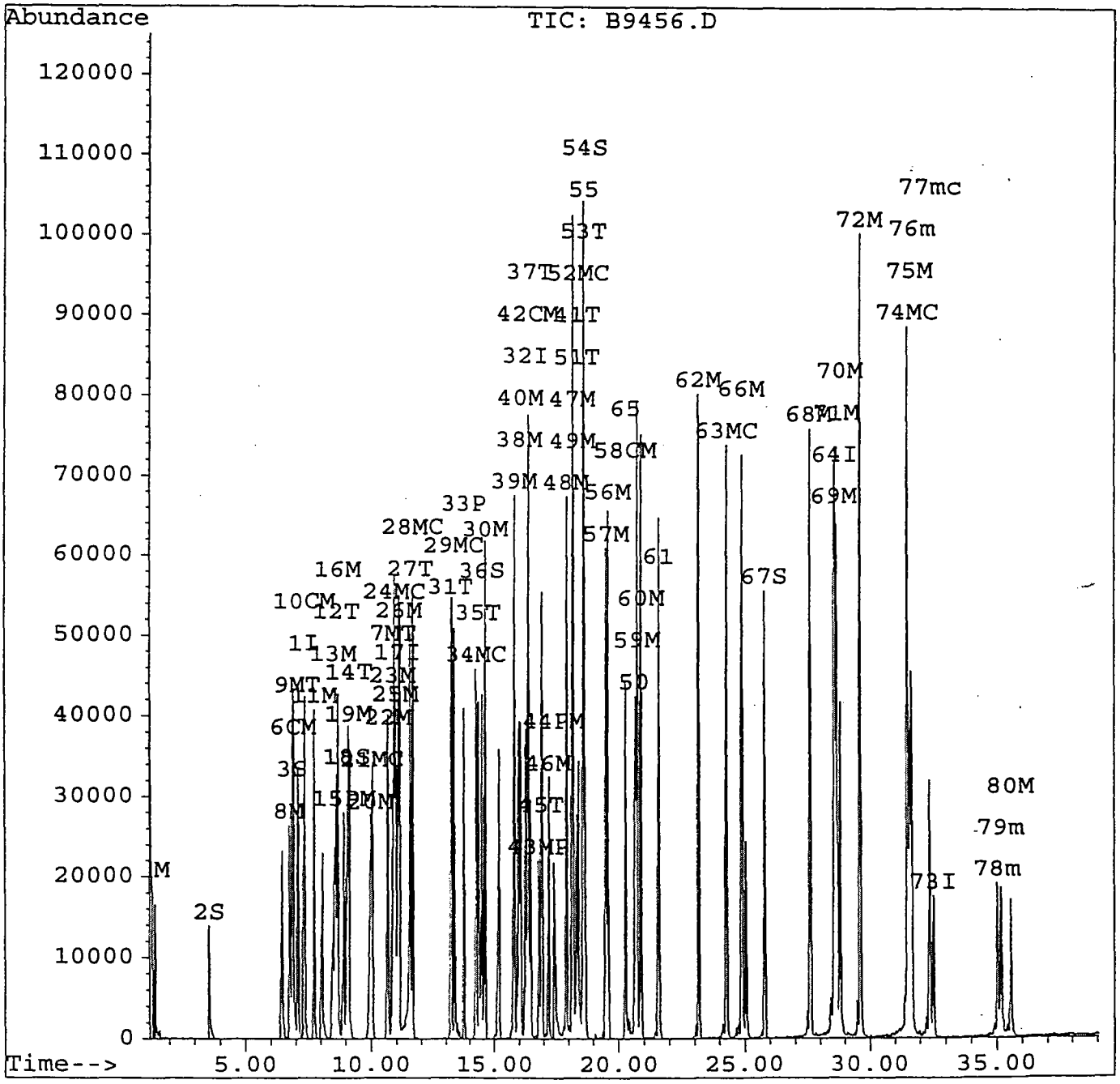
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9456.d
Acq On : 21 Dec 95 1:10 pm
Sample : 80 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 12:00 1995

Vial: 4
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9457.d Vial: 5
Acq On : 21 Dec 95 2:02 pm Operator: SCOTTV
Sample : 120 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	8190	40.00	ug/mL	-0.54
17) Naphthalene-d8	11.06	136	35391	40.00	ug/mL	-0.51
32) Acenaphthene-d10	16.28	164	22200	40.00	ug/mL	-0.55
50) Phenanthrene-d10	20.68	188	34602	40.00	ug/ml	-0.57
64) Chrysene-d12	28.66	240	32600	40.00	ug/mL	-0.59
73) Perylene-d12	32.53	264	18735	40.00	ug/mL	-0.62
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.57	112	12125	52.00	ug/mL	52.00%
3) Phenol-d5	6.88	99	18477	47.59	ug/mL	47.59%
18) Nitrobenzene-d5	9.06	82	17988	42.53	ug/mL	42.53%
36) 2-Fluorobiphenyl	14.53	172	32672	55.36	ug/mL	55.36%
54) 2,4,6-Tribromophenol	18.69	330	10000	65.67	ug/mL	65.67%
67) Terphenyl-d14	25.79	244	41637	46.32	ug/mL	46.32%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.45	74	20634	118.15	ug/mlm	100
6) Phenol	6.92	94	42436	125.69	ug/mL	100
7) bis(2-Chloroethyl)ether	10.87	93	47690	108.00	ug/mL	96
8) 2-Chlorophenol	6.74	128	33167	124.42	ug/mL	96
9) 1,3-Dichlorobenzene	7.09	146	34619	124.97	ug/mL	100
10) 1,4-Dichlorobenzene	7.36	146	35798	127.68	ug/mL	97
11) 1,2-Dichlorobenzene	7.75	146	34486	123.96	ug/mL	96
12) 2-Methylphenol	8.63	108	29290	117.42	ug/mLm	99
13) bis(2-chloroisopropyl)ethe	8.50	45	48332	105.12	ug/mL#	94
14) 4-Methylphenol	9.17	108	32087	119.94	ug/mL	99
15) N-Nitroso-Di-n-propylamine	8.96	70	27347	94.88	ug/mL	93
16) Hexachloroethane	8.69	117	22000	129.75	ug/mL#	70
19) Nitrobenzene	9.11	77	51833	104.75	ug/mL	92
20) Isophorone	10.02	82	76712	112.57	ug/mL	99
21) 2-Nitrophenol	10.06	139	22639	118.78	ug/mL#	88
22) 2,4-Dimethylphenol	10.67	107	38451	114.33	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.87	93	47690	104.30	ug/mL#	100
24) 2,4-Dichlorophenol	10.93	162	28385	115.92	ug/mL	96
25) 1,2,4-Trichlorobenzene	10.96	180	30567	110.51	ug/mL	94
26) Naphthalene	11.12	128	92013	108.55	ug/mL	100
27) 4-Chloroaniline	11.56	127	47491	120.34	ug/mL	99
28) Hexachlorobutadiene	11.64	225	19723	118.83	ug/mL	98
29) 4-Chloro-3-methylphenol	13.35	107	36615	104.18	ug/mL	96
30) 2-Chloronaphthalene	14.64	162	67502	110.15	ug/ml#	100
31) 2-Methylnaphthalene	13.24	142	63165	85.06	ug/mL	97
33) Hexachlorocyclopentadiene	13.76	237	23556	158.28	ug/mL	99
34) 2,4,6-Trichlorophenol	14.28	196	24740	126.84	ug/mL	99
35) 2,4,5-Trichlorophenol	14.37	196	23132	116.90	ug/mL	94

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9457.d Vial: 5
Acq On : 21 Dec 95 2:02 pm Operator: SCOTTV
Sample : 120 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:00 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.49	65	28959	80.24	ug/mL	93
38)	Dimethylphthalate	16.03	163	78566	103.63	ug/mL#	12
39)	Acenaphthylene	15.82	152	114738	128.66	ug/mL	99
40)	2,6-Dinitrotoluene	16.09	165	19290	103.42	ug/mL#	97
41)	3-Nitroaniline	18.37	138	14668	81.18	ug/mL#	85
42)	Acenaphthene	16.38	153	71340	125.96	ug/mL	99
43)	2,4-Dinitrophenol	16.82	184	10898	107.57	ug/mL	94
44)	4-Nitrophenol	17.44	109	16951	130.32	ug/mL	85
45)	Dibenzofuran	16.94	168	86490	108.79	ug/mL#	83
46)	2,4-Dinitrotoluene	17.23	165	26014	101.49	ug/mL#	1
47)	Diethylphthalate	18.21	149	88020	105.86	ug/mL#	93
48)	Fluorene	17.96	166	71673	114.84	ug/mL	97
49)	4-Chlorophenyl-phenylether	18.19	204	31028	105.16	ug/mL#	69
51)	4-Nitroaniline	18.37	138	14668	94.69	ug/mL	85
52)	4,6-Dinitro-2-methylphenol	18.42	198	15657	138.30	ug/mL	100
53)	n-Nitrosodiphenylamine	18.62	169	44226	120.55	ug/mL	94
55)	1,2-Diphenylhydrazine (as	18.66	77	123892	120.03	ug/ml	100
56)	4-Bromophenyl-phenylether	19.60	248	23142	128.00	ug/mL#	85
57)	Hexachlorobenzene	19.52	284	35191	138.57	ug/mL#	83
58)	Pentachlorophenol	20.29	266	21519	136.44	ug/mL	97
59)	Phenanthrene	20.76	178	107392	125.56	ug/mL	99
60)	Anthracene	20.91	178	105043	121.62	ug/mLm	99
61)	Carbazole	21.61	167	104225	126.58	ug/ml	96
62)	Di-n-butylphthalate	23.18	149	193398	122.17	ug/mL#	99
63)	Fluoranthene	24.30	202	123997	131.25	ug/mLm	77
65)	Benzidine	20.33	184	1007	10.64	ug/mlm	100
66)	Pyrene	24.92	202	128320	106.28	ug/mL#	88
68)	Butylbenzylphthalate	27.62	149	85757	96.92	ug/mL#	27
69)	Benzo[a]anthracene	28.62	228	124306	121.68	ug/mL	100
70)	3,3'-Dichlorobenzidine	28.83	252	49504	156.82	ug/mL#	95
71)	Chrysene	28.71	228	81173	110.06	ug/mLm	100
72)	bis(2-Ethylhexyl)phthalate	29.62	149	119876	98.81	ug/mL#	23
74)	Di-n-octylphthalate	31.51	149	190845	96.07	ug/mL#	100
75)	Benzo[b]fluoranthene	31.63	252	80942	106.49	ug/mLm	97
76)	Benzo[k]fluoranthene	31.70	252	54593	95.58	ug/mLm	97
77)	Benzo[a]pyrene	32.40	252	59541	123.14	ug/mLm	97
78)	Indeno[1,2,3-cd]pyrene	35.03	276	29204	85.67	ug/mL	99
79)	Dibenz[a,h]anthracene	35.17	278	29443	88.19	ug/mL#	91
80)	Benzo[g,h,i]perylene	35.56	276	28700	84.52	ug/mLm	99

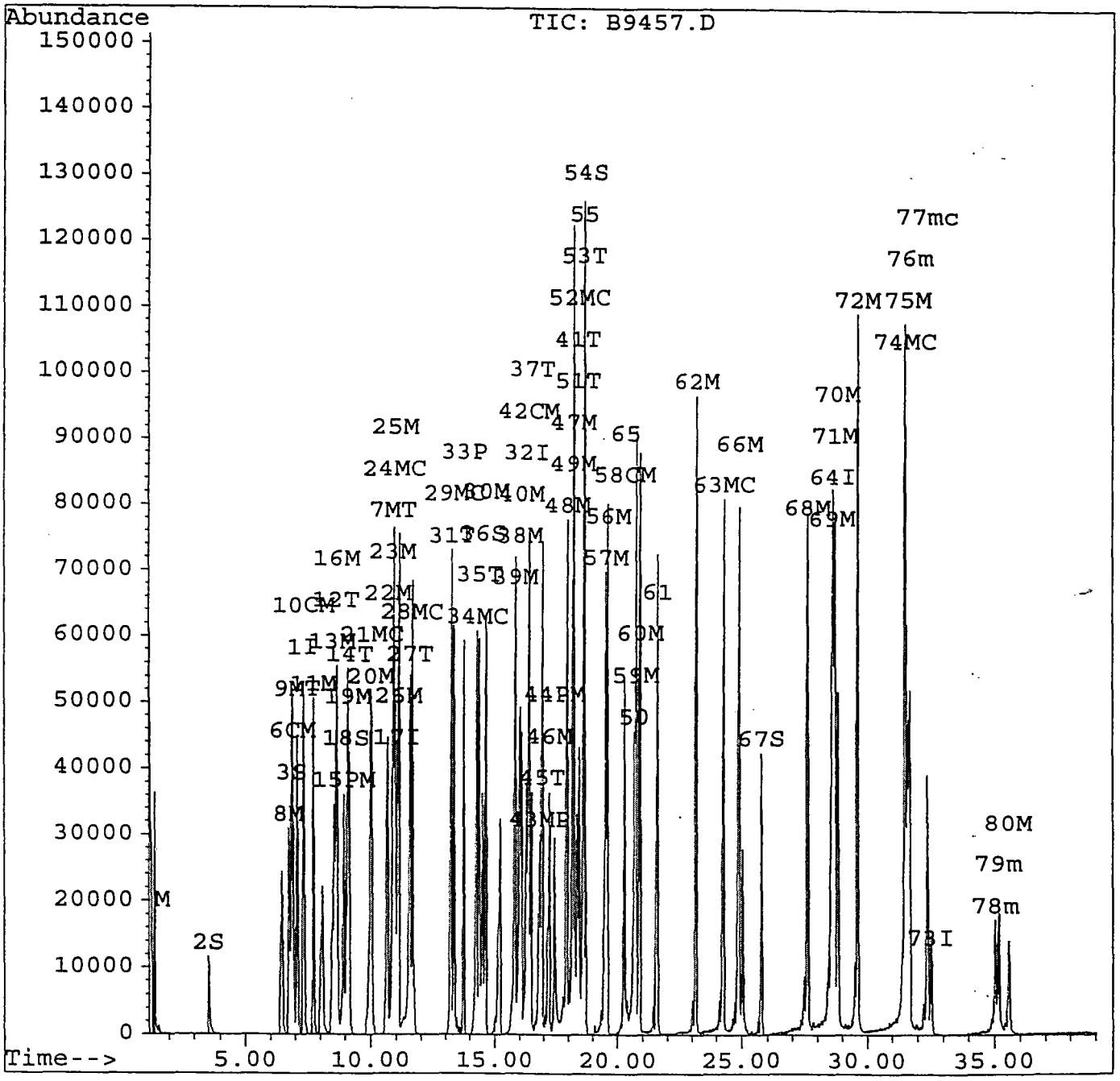
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9457.d
Acq On : 21 Dec 95 2:02 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 12:00 1995

Vial: 5
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9458.d Vial: 6
Acq On : 21 Dec 95 2:54 pm Operator: SCOTTV
Sample : 160 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:02 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	8269	40.00	ug/mL	-0.54
17) Naphthalene-d8	11.06	136	34499	40.00	ug/mL	-0.51
32) Acenaphthene-d10	16.29	164	21782	40.00	ug/mL	-0.55
50) Phenanthrene-d10	20.67	188	27930	40.00	ug/ml	-0.58
64) Chrysene-d12	28.65	240	23706	40.00	ug/mL	-0.59
73) Perylene-d12	32.54	264	14423	40.00	ug/mL	-0.61
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.57	112	12694	53.92	ug/mL	53.92%
3) Phenol-d5	6.88	99	21421	54.64	ug/mL	54.64%
18) Nitrobenzene-d5	9.06	82	17829	43.25	ug/mL	43.25%
36) 2-Fluorobiphenyl	14.53	172	33244	57.41	ug/mL	57.41%
54) 2,4,6-Tribromophenol	18.70	330	8467	68.88	ug/mL	68.88%
67) Terphenyl-d14	25.79	244	32094	49.10	ug/mL	49.10%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.45	74	28534	161.82	ug/mlm	100
6) Phenol	6.92	94	53208	156.09	ug/mL	100
7) bis(2-Chloroethyl)ether	10.89	93	61925	138.90	ug/mL	87
8) 2-Chlorophenol	6.76	128	42995	159.75	ug/mL	97
9) 1,3-Dichlorobenzene	7.09	146	45149	161.42	ug/mL	99
10) 1,4-Dichlorobenzene	7.36	146	44987	158.92	ug/mL	97
11) 1,2-Dichlorobenzene	7.75	146	43720	155.65	ug/mL	97
12) 2-Methylphenol	8.65	108	37342	148.27	ug/mLm	94
13) bis(2-chloroisopropyl)ethe	8.50	45	64623	139.21	ug/mL#	93
14) 4-Methylphenol	9.19	108	42669	157.98	ug/mL	94
15) N-Nitroso-Di-n-propylamine	8.98	70	37226	127.93	ug/mL	99
16) Hexachloroethane	8.69	117	28100	164.14	ug/mL#	78
19) Nitrobenzene	9.13	77	69678	144.45	ug/mL	98
20) Isophorone	10.06	82	101950	153.48	ug/mLm	97
21) 2-Nitrophenol	10.06	139	29260	157.49	ug/mL	91
22) 2,4-Dimethylphenol	10.68	107	51255	156.35	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.89	93	61925	138.93	ug/mL#	100
24) 2,4-Dichlorophenol	10.93	162	35697	149.55	ug/mL	97
25) 1,2,4-Trichlorobenzene	10.98	180	38777	143.82	ug/mL	93
26) Naphthalene	11.14	128	129660	156.92	ug/mL	99
27) 4-Chloroaniline	11.56	127	58737	152.68	ug/mL	99
28) Hexachlorobutadiene	11.66	225	23811	147.16	ug/mL	98
29) 4-Chloro-3-methylphenol	13.35	107	47402	138.36	ug/mL	96
30) 2-Chloronaphthalene	14.67	162	89457	149.75	ug/ml#	100
31) 2-Methylnaphthalene	13.24	142	91151	125.92	ug/mL	95
33) Hexachlorocyclopentadiene	13.76	237	30132	206.35	ug/mL	98
34) 2,4,6-Trichlorophenol	14.28	196	37340	195.12	ug/mL	97
35) 2,4,5-Trichlorophenol	14.38	196	25693	132.34	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9458.d Vial: 6
Acq On : 21 Dec 95 2:54 pm Operator: SCOTTV
Sample : 160 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 26 12:02 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.52	65	36969	104.40	ug/mL	87
38)	Dimethylphthalate	16.03	163	91077	122.44	ug/mL#	11
39)	Acenaphthylene	15.84	152	149482	170.84	ug/mL	100
40)	2,6-Dinitrotoluene	16.11	165	23495	128.39	ug/mL#	93
41)	3-Nitroaniline	18.37	138	14010	79.02	ug/mL	90
42)	Acenaphthene	16.40	153	94052	169.25	ug/mL	96
43)	2,4-Dinitrophenol	16.83	184	12676	127.52	ug/mL	86
44)	4-Nitrophenol	17.44	109	16337	128.01	ug/mL#	81
45)	Dibenzofuran	16.94	168	108498	139.09	ug/mL#	87
46)	2,4-Dinitrotoluene	17.25	165	28746	114.30	ug/mL#	1
47)	Diethylphthalate	18.22	149	98897	121.22	ug/mL#	92
48)	Fluorene	17.96	166	81212	132.62	ug/mL	95
49)	4-Chlorophenyl-phenylether	18.20	204	36009	124.38	ug/mL#	70
51)	4-Nitroaniline	18.37	138	14010	112.04	ug/mL	90
52)	4,6-Dinitro-2-methylphenol	18.45	198	12005	131.37	ug/mL	100
53)	n-Nitrosodiphenylamine	18.62	169	50591	170.84	ug/mL	98
55)	1,2-Diphenylhydrazine (as	18.66	77	141967	170.40	ug/ml	100
56)	4-Bromophenyl-phenylether	19.61	248	26396	180.87	ug/mL#	89
57)	Hexachlorobenzene	19.53	284	39275	191.60	ug/mL#	87
58)	Pentachlorophenol	20.30	266	23142	181.78	ug/mL	95
59)	Phenanthrene	20.76	178	119616	173.26	ug/mL	99
60)	Anthracene	20.92	178	119156	170.92	ug/mLm	99
61)	Carbazole	21.61	167	108930	163.89	ug/ml	95
62)	Di-n-butylphthalate	23.19	149	205554	160.87	ug/mL#	98
63)	Fluoranthene	24.31	202	131389	172.29	ug/mLm	82
65)	Benzidine	20.34	184	1395	20.27	ug/mlm	100
66)	Pyrene	24.91	202	129819	147.87	ug/mL	92
68)	Butylbenzylphthalate	27.63	149	84223	130.90	ug/mL#	25
69)	Benzo[a]anthracene	28.63	228	128013	172.33	ug/mL	99
70)	3,3'-Dichlorobenzidine	28.84	252	37391	162.89	ug/mL#	95
71)	Chrysene	28.73	228	68647	128.00	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	29.63	149	120019	136.04	ug/mL#	25
74)	Di-n-octylphthalate	31.52	149	187341	122.50	ug/mL#	100
75)	Benzo[b]fluoranthene	31.64	252	81381	139.08	ug/mLm	97
76)	Benzo[k]fluoranthene	31.64	252	77913	177.18	ug/mLm	97
77)	Benzo[a]pyrene	32.41	252	61572	165.42	ug/mLm	97
78)	Indeno[1,2,3-cd]pyrene	35.05	276	29591	112.76	ug/mL	98
79)	Dibenz[a,h]anthracene	35.18	278	31456	122.38	ug/mL#	92
80)	Benzo[g,h,i]perylene	35.57	276	24967	95.51	ug/mLm	99

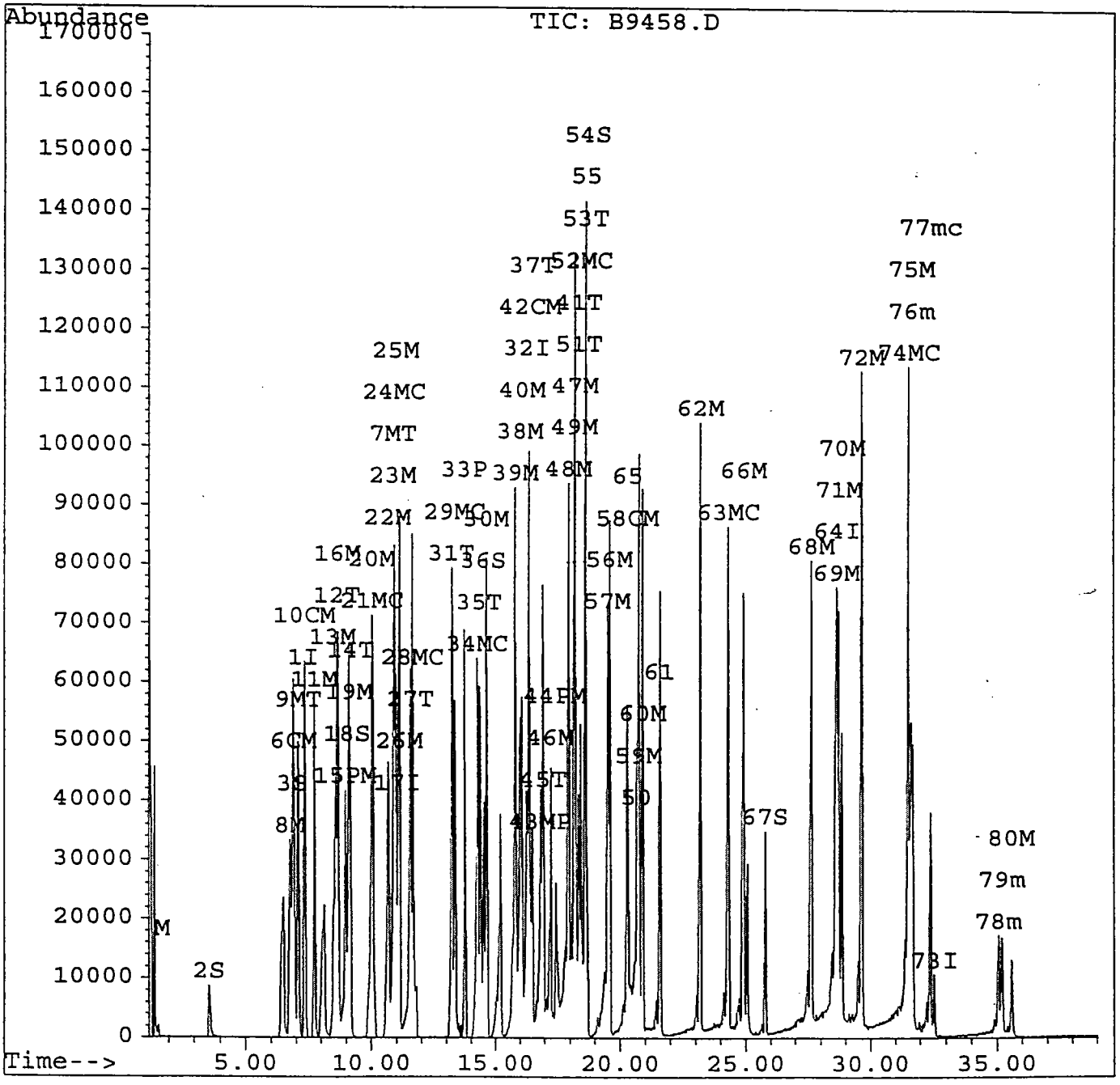
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9458.d
Acq On : 21 Dec 95 2:54 pm
Sample : 160 STD..... Converted from RTE d
Misc :
Quant Time: Dec 26 12:02 1995

Vial: 6
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: B9005.D DFTPP Injection Date: 10/27/95

Instrument ID: ABNA DFTPP Injection Time: 1121

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	58.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	76.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	46.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	19.3
365	Greater than 0.75% of mass 198	2.3
441	Present, but less than mass 443	10.1
442	40.0 - 110.0% of mass 198	62.3
443	15.0 - 24.0% of mass 442	11.8 (19.0)2

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

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

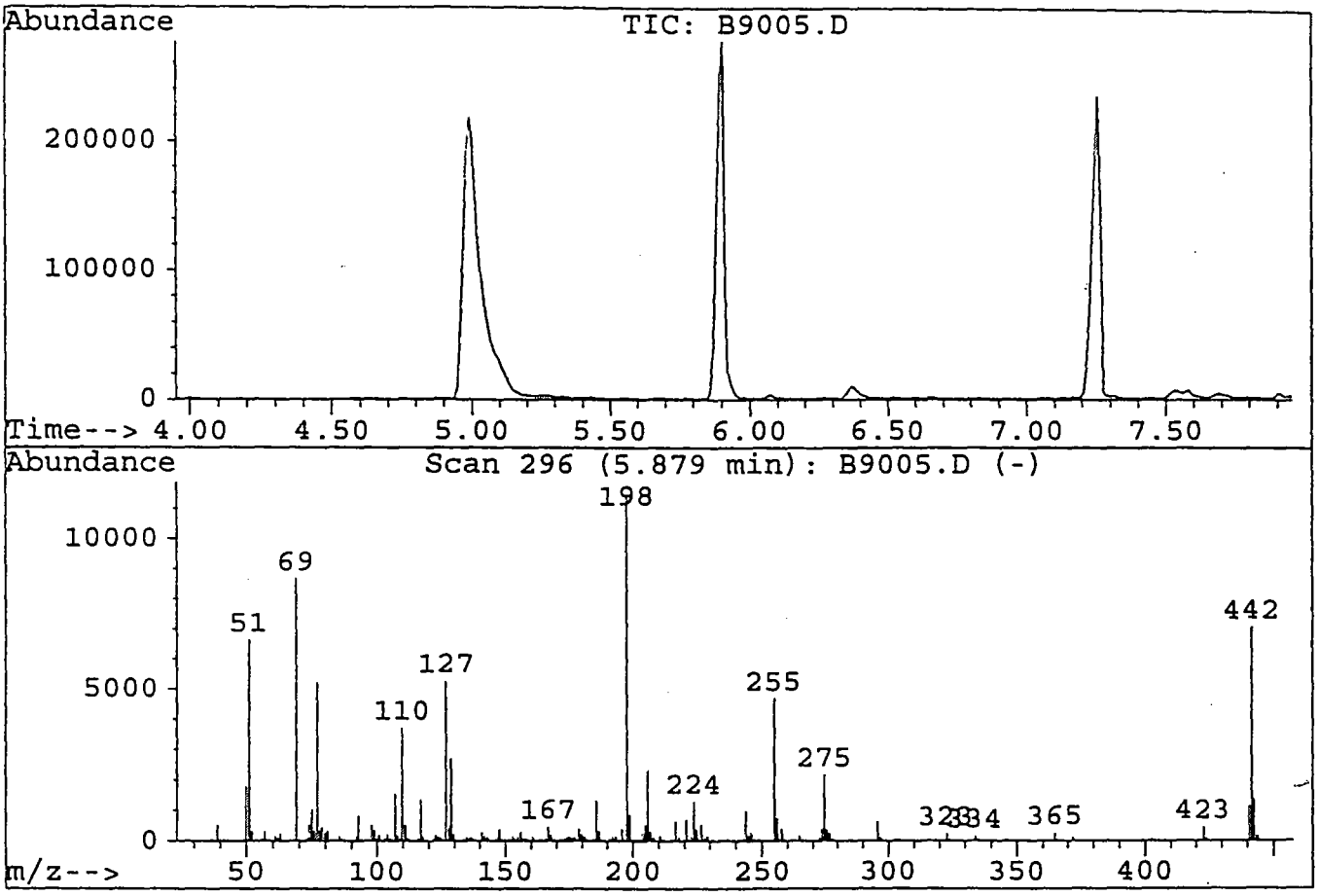
	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 STD	B9008.D	10/27/95	1329
02	SBLK01	BLANK1	B9009.D	10/27/95	1421
03	9547000B	9547000B	B9010.D	10/27/95	1512
04	46360MS	46360MS	B9011.D	10/27/95	1604
05	46360MSD	46360MSD	B9012.D	10/27/95	1656
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DFTPP

Data File : C:\HPCHEM\1\DATA2\B9005.D
Acq On : 27 Oct 95 11:21 am
Sample : DFTPP.....
Misc :

Vial: 1
Operator: SCOTTV
Converted from RTE d Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration



Peak Apex is scan: 303

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.5	6640	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	76.5	8681	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	46.5	5278	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	11354	PASS
199	198	5	9	7.5	851	PASS
275	198	10	30	19.3	2186	PASS
365	198	1	100	2.3	262	PASS
441	443	0	100	85.7	1150	PASS
442	198	40	100	62.3	7070	PASS
443	442	17	23	19.0	1342	PASS

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	76	61.05	162	78.05	357	92.95	836
39.10	538	62.05	105	78.95	456	94.05	60
40.10	11	63.05	251	80.05	272	96.00	4
49.15	60	64.05	21	81.05	337	98.00	514
50.10	1802	65.05	39	82.05	22	99.00	334
51.10	6640	69.05	8681	83.95	27	100.00	61
52.10	309	73.25	96	84.15	30	100.90	173
56.05	84	74.05	568	85.95	152	102.10	23
57.05	325	74.95	1043	87.05	60	103.00	131
57.95	40	75.95	325	88.15	24	104.00	213
58.95	33	77.05	5224	92.15	139	105.00	77

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
106.10	45	119.20	28	131.95	21	145.95	60
107.00	1558	120.10	23	133.85	94	147.05	123
108.00	176	122.10	159	135.05	173	147.95	389
109.10	71	123.10	219	135.95	85	148.85	58
109.95	3714	124.00	134	136.95	116	150.05	34
111.00	519	125.00	94	137.75	36	151.25	56
112.00	87	127.00	5278	140.05	29	151.95	43
113.10	31	128.00	424	140.95	285	152.95	140
116.00	131	128.95	2715	141.95	153	153.95	69
117.00	1370	129.85	217	143.05	97	154.95	138
117.90	140	131.10	50	145.05	19	156.05	290

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.15	71	169.10	53	178.80	398	189.90	28
157.95	86	170.20	25	179.85	215	190.90	62
158.95	48	170.90	34	180.90	122	191.90	140
159.95	73	171.90	78	181.90	29	193.00	137
160.85	143	173.00	95	182.80	17	195.00	27
161.95	53	174.00	147	184.00	47	195.90	402
164.05	17	175.00	154	184.80	122	197.90	11354
164.90	13	176.00	98	185.85	1327	198.80	851
165.95	79	177.10	135	186.90	319	200.00	72
166.90	470	177.80	31	187.90	49	201.40	85
167.90	186	178.10	37	188.80	46	203.00	60

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.80	274	220.95	681	234.95	47	246.90	54
204.95	542	222.85	148	235.95	43	247.60	10
205.95	2320	223.85	1298	236.95	67	248.90	64
206.85	289	224.95	385	239.05	37	253.40	16
207.95	112	225.95	47	239.90	19	254.90	4690
208.95	41	226.95	533	240.90	49	255.80	735
210.75	167	227.95	107	241.80	74	256.90	64
214.85	42	228.85	163	242.90	80	257.90	400
215.95	68	229.95	32	243.90	1011	258.90	49
216.75	644	230.85	57	244.80	168	264.90	163
217.95	101	233.85	55	245.90	273	271.80	20

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.90	141	302.85	75	331.70	25	365.85	41
273.80	394	303.95	33	332.90	24	370.85	31
274.90	2186	313.80	44	333.90	159	371.85	130
275.90	356	314.90	72	334.90	33	382.55	16
276.85	235	315.90	45	340.70	20	382.95	24
277.75	37	320.70	24	345.80	64	389.70	22
282.95	18	321.80	17	351.95	54	401.90	58
284.95	37	322.90	232	352.95	51	402.80	67
293.05	43	323.90	53	353.85	74	403.70	21
295.85	649	326.70	36	354.85	17	420.90	47
296.85	108	327.90	29	364.85	262	422.90	447

Scan 296 (5.879 min): B9005.D

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.85	81						
440.85	1150						
441.85	7070						
442.75	1342						
443.75	155						

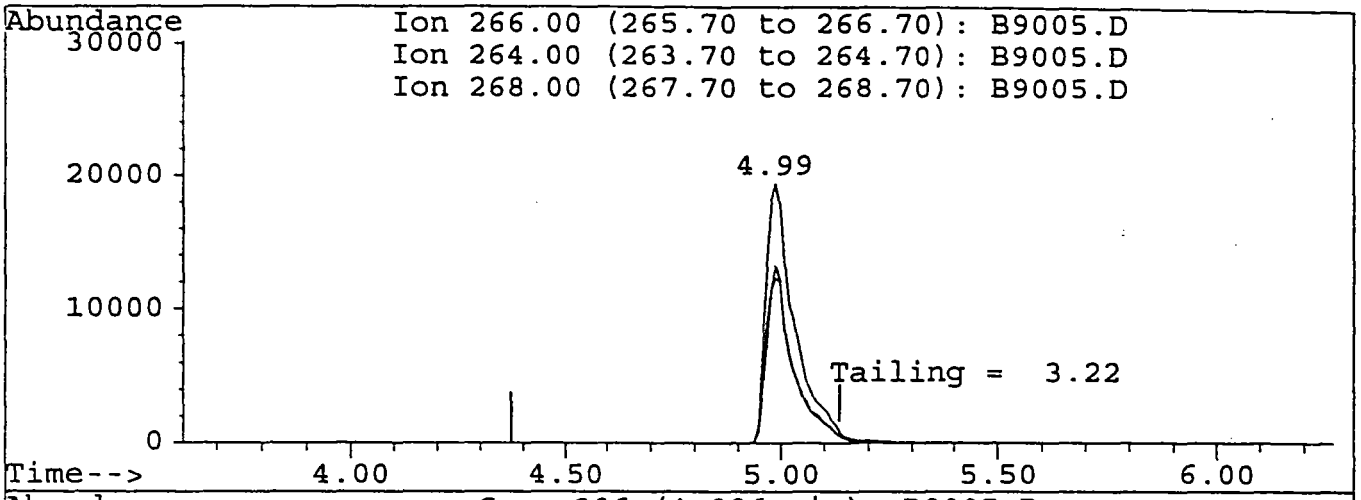
Quantitation Report

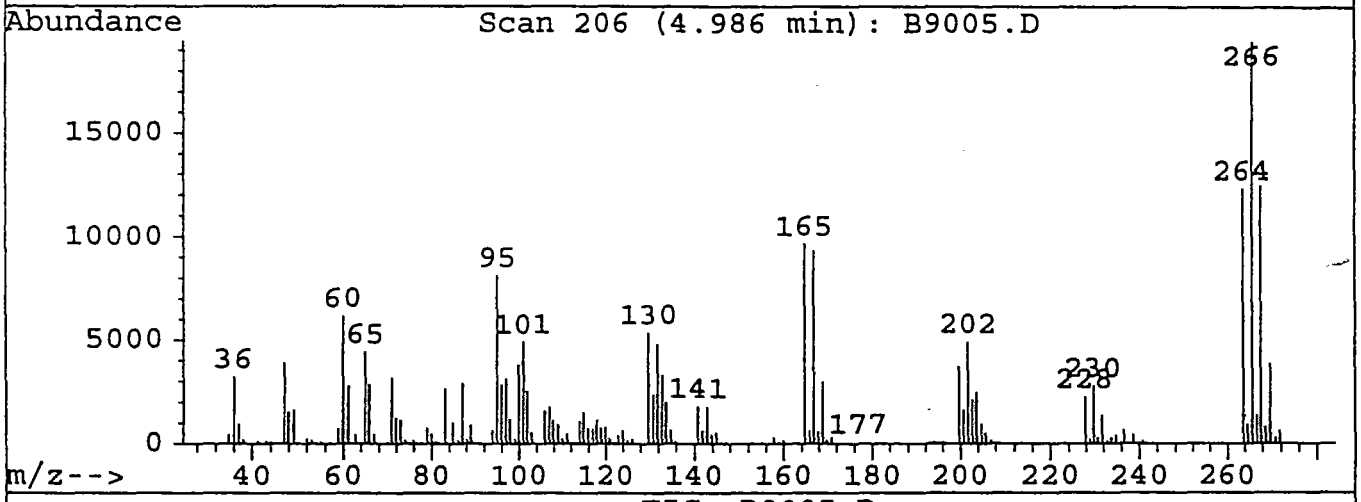
Data File : C:\HPCHEM\1\DATA2\B9005.D
Acq On : 27 Oct 95 11:21 am
Sample : DFTPP.....
Misc :
Quant Time: Oct 27 12:32 1995

Converted from RTE d

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration





TIC: B9005.D

(1) Pentachlorophenol (CM)

4.99min 272.64ug/mL

response 90052

Ion	Exp%	Act%
266.00	100	100
264.00	64.30	63.35
268.00	64.70	68.27
0.00	0.00	0.00

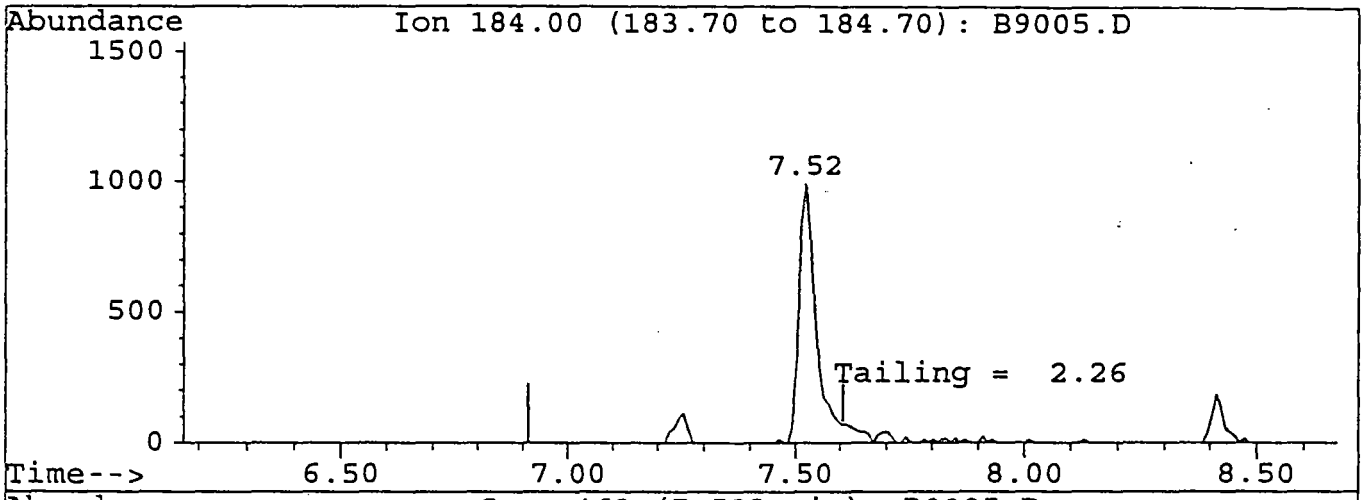
Quantitation Report

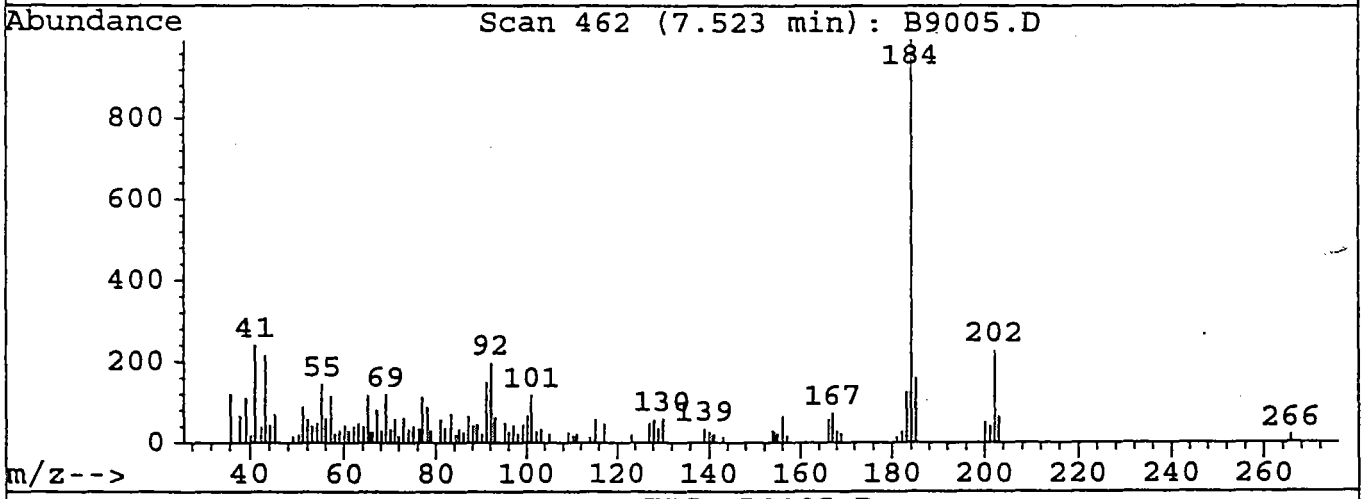
Data File : C:\HPCHEM\1\DATA2\B9005.D
Acq On : 27 Oct 95 11:21 am
Sample : DFTPP.....
Misc :
Quant Time: Oct 27 12:32 1995

Converted from RTE d

Vial: 1
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration





TIC: B9005.D

(2) Benzidine
7.52min 9.14ug/ml
response 2809

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1329

Lab File ID: B9008.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1329 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N-nitrosodimethylamine	0.887	0.841		5.2	
bis(2-Chloroethyl)ether	2.373	2.336		1.6	
1,3-Dichlorobenzene	1.367	1.410		-3.1	
1,4-Dichlorobenzene	1.383	1.419		-2.6	30.0
1,2-Dichlorobenzene	1.347	1.385		-2.8	
bis(2-chloroisopropyl)ether	2.234	1.940		13.2	
N-Nitroso-Di-n-propylamine	1.528	1.444	0.050	5.5	
Hexachloroethane	0.868	0.883		-1.7	
Nitrobenzene	0.519	0.516		0.6	
Isophorone	1.101	1.024		7.0	
bis(2-Chloroethoxy)methane	0.603	0.598		0.8	
1,2,4-Trichlorobenzene	0.304	0.309		-1.6	
Naphthalene	1.003	0.942		6.1	
Hexachlorobutadiene	0.160	0.160		0.0	30.0
Hexachlorocyclopentadiene	0.289	0.246	0.050	14.9	
2-Chloronaphthalene	0.634	0.647		-2.1	
Dimethylphthalate	1.368	1.400		-2.3	
Acenaphthylene	1.801	1.833		-1.8	
2,6-Dinitrotoluene	0.308	0.351		-14.0	
Acenaphthene	1.020	1.150		-12.7	30.0
2,4-Dinitrotoluene	0.452	0.459		-1.5	
Diethylphthalate	1.556	1.602		-3.0	
Fluorene	1.167	1.206		-3.3	
4-Chlorophenyl-phenylether	0.509	0.505		0.8	
n-Nitrosodiphenylamine	0.543	0.578		-6.4	
1,2-Diphenylhydrazine(as azo)	0.000	0.000			
4-Bromophenyl-phenylether	0.187	0.199		-6.4	
Hexachlorobenzene	0.237	0.247		-4.2	
Phenanthrene	1.087	1.152		-6.0	
Anthracene	1.068	1.135		-6.3	
Di-n-butylphthalate	2.011	1.728		14.1	
Fluoranthene	1.092	0.939		14.0	30.0
Benzidine	0.274	0.276		-0.7	
Pyrene	1.600	1.832		-14.5	
Butylbenzylphthalate	1.245	1.293		-3.9	
Benzo[a]anthracene	1.429	1.239		13.3	
3,3'-Dichlorobenzidine	0.386	0.330		14.5	

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

200

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1329

Lab File ID: B9008.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1329 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chrysene	0.857	1.008		-17.6	
bis(2-Ethylhexyl)phthalate	1.785	1.714		4.0	
Di-n-octylphthalate	5.692	5.727		-0.6	30.0
Benzo[b]fluoranthene	1.952	1.846		5.4	
Benzo[k]fluoranthene	1.162	1.246		-7.2	
Benzo[a]pyrene	1.081	1.178		-9.0	30.0
Indeno[1,2,3-cd]pyrene	0.561	0.585		-4.3	
Dibenz[a,h]anthracene	0.549	0.494		10.0	
Benzo[g,h,i]perylene	0.510	0.437		14.3	
Nitrobenzene-d5	0.542	0.524		3.3	
2-Fluorobiphenyl	1.220	1.209		0.9	
Terphenyl-d14	0.994	1.151		-15.8	

All other compounds must meet a minimum RRF of 0.010.

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9008.D Vial: 2
Acq On : 27 Oct 95 1:29 pm Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	-0.10
2	S	2-Fluorophenol	1.275	1.248	2.1	88	-0.08
3	S	Phenol-d5	2.069	2.002	3.2	89	-0.04
4	M	N-nitrosodimethylamine	0.887	0.841	5.2	84	-0.06
5		Pyridine	0.795	0.000#	100.0#	0#	-1.55#
6	CM	Phenol	1.941	2.100	-8.2	100	-0.04
7	MT	bis(2-Chloroethyl)ether	2.373	2.336	1.6	90	-0.08
8	M	2-Chlorophenol	1.333	1.349	-1.2	90	-0.08
9	MT	1,3-Dichlorobenzene	1.367	1.410	-3.1	90	-0.08
10	CM	1,4-Dichlorobenzene	1.383	1.419	-2.6	87	-0.10
11	M	1,2-Dichlorobenzene	1.347	1.385	-2.8	89	-0.10
12	T	2-Methylphenol	1.279	1.273	0.5	88	-0.06
13	M	bis(2-chloroisopropyl)ether	2.234	1.940	13.2	93	-0.06
14	T	4-Methylphenol	1.402	1.302	7.1	78	-0.06
15	PM	N-Nitroso-Di-n-propylamine	1.528	1.444	5.5	86	-0.08
16	M	Hexachloroethane	0.868	0.883	-1.7	90	-0.10
17	I	Naphthalene-d8	1.000	1.000	0.0	88	-0.10
18	S	Nitrobenzene-d5	0.542	0.524	3.4	87	-0.08
19	M	Nitrobenzene	0.519	0.516	0.6	93	-0.08
20	M	Isophorone	1.101	1.024	7.0	88	-0.10
21	MC	2-Nitrophenol	0.239	0.227	5.2	81	-0.10
22	M	2,4-Dimethylphenol	0.387	0.378	2.2	89	-0.06
23	M	bis(2-Chloroethoxy)methane	0.603	0.598	0.8	90	-0.08
24	MC	2,4-Dichlorophenol	0.295	0.282	4.4	85	-0.06
25	M	1,2,4-Trichlorobenzene	0.304	0.309	-1.6	88	-0.10
26	M	Naphthalene	1.003	0.942	6.1	82	-0.10
27	T	4-Chloroaniline	0.470	0.439	6.7	86	-0.08
28	MC	Hexachlorobutadiene	0.160	0.160	-0.5	88	-0.08
29	MC	4-Chloro-3-methylphenol	0.388	0.356	8.4	80	-0.04
30	M	2-Chloronaphthalene	0.634	0.647	-2.0	90	-0.08
31	T	2-Methylnaphthalene	0.870	0.829	4.7	81	-0.10
32	I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.10
33	P	Hexachlorocyclopentadiene	0.289	0.246	15.1	88	-0.08
34	MC	2,4,6-Trichlorophenol	0.426	0.387	9.2	83	-0.08
35	T	2,4,5-Trichlorophenol	0.347	0.413	-18.9	89	-0.06
36	S	2-Fluorobiphenyl	1.220	1.209	0.9	84	-0.10
37	T	2-Nitroaniline	0.783	0.773	1.3	89	-0.06
38	M	Dimethylphthalate	1.368	1.400	-2.3	88	-0.08
39	M	Acenaphthylene	1.801	1.833	-1.8	86	-0.10
40	M	2,6-Dinitrotoluene	0.308	0.351	-14.1	81	-0.08

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9008.D Vial: 2
Acq On : 27 Oct 95 1:29 pm Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	T	3-Nitroaniline	0.342	0.354	-3.5	84	-0.06
42	CM	Acenaphthene	1.020	1.150	-12.8	96	-0.10
43	MP	2,4-Dinitrophenol	0.210	0.227	-8.3	114	-0.08
44	PM	4-Nitrophenol	0.228	0.222	2.4	88	0.00
45	T	Dibenzofuran	1.534	1.481	3.5	82	-0.10
46	M	2,4-Dinitrotoluene	0.452	0.459	-1.4	85	-0.08
47	M	Diethylphthalate	1.556	1.602	-2.9	88	-0.08
48	M	Fluorene	1.167	1.206	-3.3	87	-0.08
49	M	4-Chlorophenyl-phenylether	0.509	0.505	0.8	85	-0.10
50		Phenanthrene-d10	1.000	1.000	0.0	80	-0.10
51	T	4-Nitroaniline	0.230	0.259	-12.3	84	-0.06
52	MC	4,6-Dinitro-2-methylphenol	0.148	0.147	1.1	74	-0.08
53	T	n-Nitrosodiphenylamine	0.543	0.578	-6.6	82	-0.08
54	S	2,4,6-Tribromophenol	0.127	0.123	2.6	81	-0.08
55		1,2-Diphenylhydrazine (as a	1.784	1.999	-12.0	85	-0.08
56	M	4-Bromophenyl-phenylether	0.187	0.199	-6.3	85	-0.10
57	M	Hexachlorobenzene	0.237	0.247	-4.3	83	-0.10
58	CM	Pentachlorophenol	0.163	0.130	19.7	71	-0.10
59	M	Phenanthrene	1.087	1.152	-6.0	82	-0.09
60	M	Anthracene	1.068	1.135	-6.3	82	-0.09
61		Carbazole	1.065	0.890	16.4	68	-0.09
62	M	Di-n-butylphthalate	2.011	1.728	14.1	67	-0.11
63	MC	Fluoranthene	1.092	0.939	14.1	67	-0.74#
64	I	Chrysene-d12	1.000	1.000	0.0	36#	-0.11
65		Benzidine	0.274	0.276	-0.9	42#	-0.10
66	M	Pyrene	1.600	1.832	-14.5	42#	-0.11
67	S	Terphenyl-d14	0.994	1.151	-15.8	45#	-0.11
68	M	Butylbenzylphthalate	1.245	1.293	-3.9	38#	-0.11
69	M	Benzo[a]anthracene	1.429	1.239	13.3	30#	-0.13
70	M	3,3'-Dichlorobenzidine	0.386	0.330	14.4	30#	-0.09
71	M	Chrysene	0.857	1.008	-17.6	42#	-0.11
72	M	bis(2-Ethylhexyl)phthalate	1.785	1.714	3.9	35#	-0.11
73	I	Perylene-d12	1.000	1.000	0.0	34#	-0.09
74	MC	Di-n-octylphthalate	5.692	5.727	-0.6	33#	-0.11
75	M	Benzo[b]fluoranthene	1.952	1.846	5.5	26#	-0.11
76	m	Benzo[k]fluoranthene	1.162	1.246	-7.2	36#	-0.11
77	mc	Benzo[a]pyrene	1.081	1.178	-8.9	37#	-0.09
78	m	Indeno[1,2,3-cd]pyrene	0.561	0.585	-4.3	34#	-0.09
79	m	Dibenz[a,h]anthracene	0.549	0.494	9.9	30#	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9008.D Vial: 2
Acq On : 27 Oct 95 1:29 pm Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
80	M	Benzo[g,h,i]perylene	0.510	0.437	14.3	28#	-0.09
81		1-Methyl naphthalene	0.000	0.000#	0.0	0#	-14.07#
82		7,12-Dimethylbenz(a)anthrac	0.000	0.000#	0.0	0#	-36.48#
83		Quinoline	0.000	0.000#	0.0	85	-0.08
84		Thiophenol	0.000	0.000#	0.0	0#	-5.86#
85		4-Methyl chrysene	0.000	0.000#	0.0	0#	-31.87#
86		Dibenz(a,j)acridine	0.000	0.000#	0.0	29#	-0.09
87		Indene	0.000	0.000#	0.0	0#	-9.67#
88		Benzyl alcohol	0.000	0.000#	0.0	91	-0.10
89		Benzoic acid	0.000	0.000#	0.0	90	-0.06

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

Quantitation Report

204

Data File : c:\hpchem\1\data2\b9008.d
Acq On : 27 Oct 95 1:29 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Oct 30 14:27 1995

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.59	152	26722	40.00	ug/mL	-0.10
17) Naphthalene-d8	12.33	136	104351	40.00	ug/mL	-0.10
32) Acenaphthene-d10	17.63	164	57774	40.00	ug/mL	-0.10
50) Phenanthrene-d10	22.12	188	79042	40.00	ug/ml	-0.10
64) Chrysene-d12	30.18	240	25699	40.00	ug/mL	-0.11
73) Perylene-d12	34.15	264	9983	40.00	ug/mL	-0.09
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.03	112	41696	48.95	ug/mL	48.95%
3) Phenol-d5	8.05	99	66887	48.39	ug/mL	48.39%
18) Nitrobenzene-d5	10.31	82	68307	48.30	ug/mL	48.30%
36) 2-Fluorobiphenyl	15.80	172	87328	49.56	ug/mL	49.56%
54) 2,4,6-Tribromophenol	20.08	330	12186	48.69	ug/mL	48.69%
67) Terphenyl-d14	27.25	244	36967	57.91	ug/mL	57.91%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.08	74	28093	47.39	ug/ml	100
6) Phenol	8.09	94	70156	54.11	ug/mL	100
7) bis(2-Chloroethyl)ether	12.04	93	78019	49.22	ug/mL	99
8) 2-Chlorophenol	8.03	128	45049	50.60	ug/mL#	80
9) 1,3-Dichlorobenzene	8.40	146	47089	51.56	ug/mL	96
10) 1,4-Dichlorobenzene	8.65	146	47410	51.30	ug/mL	97
11) 1,2-Dichlorobenzene	9.04	146	46258	51.39	ug/mL	96
12) 2-Methylphenol	9.77	108	42525	49.77	ug/mLm	100
13) bis(2-chloroisopropyl)ethe	9.71	45	64814	43.42	ug/mL	99
14) 4-Methylphenol	10.29	108	43505	46.44	ug/mL	100
15) N-Nitroso-Di-n-propylamine	10.13	70	48217	47.24	ug/mL	93
16) Hexachloroethane	9.98	117	29491	50.85	ug/mL#	74
19) Nitrobenzene	10.37	77	67275	49.68	ug/mLm	91
20) Isophorone	11.17	82	133559	46.48	ug/mL	94
21) 2-Nitrophenol	11.29	139	29599	47.42	ug/mL#	90
22) 2,4-Dimethylphenol	11.81	107	49328	48.89	ug/mL#	100
23) bis(2-Chloroethoxy)methane	12.04	93	78019	49.60	ug/mL#	100
24) 2,4-Dichlorophenol	12.12	162	36829	47.80	ug/mL	96
25) 1,2,4-Trichlorobenzene	12.22	180	40319	50.79	ug/mL	94
26) Naphthalene	12.39	128	122894	46.95	ug/mL	100
27) 4-Chloroaniline	12.78	127	57235	46.63	ug/mL	99
28) Hexachlorobutadiene	12.91	225	20908	50.23	ug/mL	99
29) 4-Chloro-3-methylphenol	14.53	107	46386	45.80	ug/mL#	1
30) 2-Chloronaphthalene	15.97	162	84381	51.00	ug/ml#	100
31) 2-Methylnaphthalene	14.53	142	108166	47.67	ug/mL#	71
33) Hexachlorocyclopentadiene	15.05	237	17734	42.44	ug/mL#	96
34) 2,4,6-Trichlorophenol	15.53	196	27935	45.40	ug/mL	96
35) 2,4,5-Trichlorophenol	15.63	196	29810	59.43	ug/mL	95

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9008.d Vial: 2
Acq On : 27 Oct 95 1:29 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 30 14:27 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.79	65	55820	49.36	ug/mL	86
38)	Dimethylphthalate	17.27	163	101087	51.16	ug/mL#	12
39)	Acenaphthylene	17.17	152	132357	50.88	ug/mL	98
40)	2,6-Dinitrotoluene	17.34	165	25335	57.03	ug/mLm	99
41)	3-Nitroaniline	19.68	138	25550	51.73	ug/mL	89
42)	Acenaphthene	17.73	153	83055	56.38	ug/mL	98
43)	2,4-Dinitrophenol	18.10	184	16396	54.13	ug/mLm	83
44)	4-Nitrophenol	18.65	109	16063	48.80	ug/mLm	55
45)	Dibenzofuran	18.29	168	106926	48.25	ug/mL	94
46)	2,4-Dinitrotoluene	18.52	165	33124	50.69	ug/mL#	1
47)	Diethylphthalate	19.48	149	115678	51.47	ug/mL#	93
48)	Fluorene	19.33	166	87065	51.64	ug/mL	98
49)	4-Chlorophenyl-phenylether	19.52	204	36435	49.59	ug/mL#	85
51)	4-Nitroaniline	19.68	138	25550	56.16	ug/mL	89
52)	4,6-Dinitro-2-methylphenol	19.73	198	14484	49.43	ug/mL	100
53)	n-Nitrosodiphenylamine	19.97	169	57135	53.30	ug/mL	95
55)	1,2-Diphenylhydrazine (as	20.00	77	197478	56.01	ug/ml	100
56)	4-Bromophenyl-phenylether	20.97	248	19642	53.15	ug/mL	91
57)	Hexachlorobenzene	20.93	284	24441	52.13	ug/mL#	50
58)	Pentachlorophenol	21.66	266	12892	40.14	ug/mLm	97
59)	Phenanthrene	22.20	178	113864	53.01	ug/mL	99
60)	Anthracene	22.36	178	112150	53.16	ug/mLm	99
61)	Carbazole	23.01	167	87921	41.79	ug/ml	96
62)	Di-n-butylphthalate	24.53	149	170725	42.96	ug/mL	99
63)	Fluoranthene	25.78	202	92729	42.97	ug/mLm	70
65)	Benzidine	22.12	184	8865	50.45	ug/mlm	100
66)	Pyrene	26.42	202	58853	57.24	ug/mLm	60
68)	Butylbenzylphthalate	29.04	149	41544	51.93	ug/mL#	12
69)	Benzo[a]anthracene	30.14	228	39805	43.35	ug/mL	99
70)	3,3'-Dichlorobenzidine	30.33	252	10615	42.80	ug/mL#	90
71)	Chrysene	30.25	228	32370	58.81	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	31.03	149	55067	48.03	ug/mL#	34
74)	Di-n-octylphthalate	32.93	149	71466	50.31	ug/mL#	100
75)	Benzo[b]fluoranthene	33.20	252	23032	47.27	ug/mL#	80
76)	Benzo[k]fluoranthene	33.28	252	15551	53.61	ug/mLm	80
77)	Benzo[a]pyrene	34.00	252	14699	54.47	ug/mLm	80
78)	Indeno[1,2,3-cd]pyrene	36.67	276	7304	52.14	ug/mLm	32
79)	Dibenz[a,h]anthracene	36.79	278	6166	45.03	ug/mL#	83
80)	Benzo[g,h,i]perylene	37.21	276	5449	42.84	ug/mL#	63

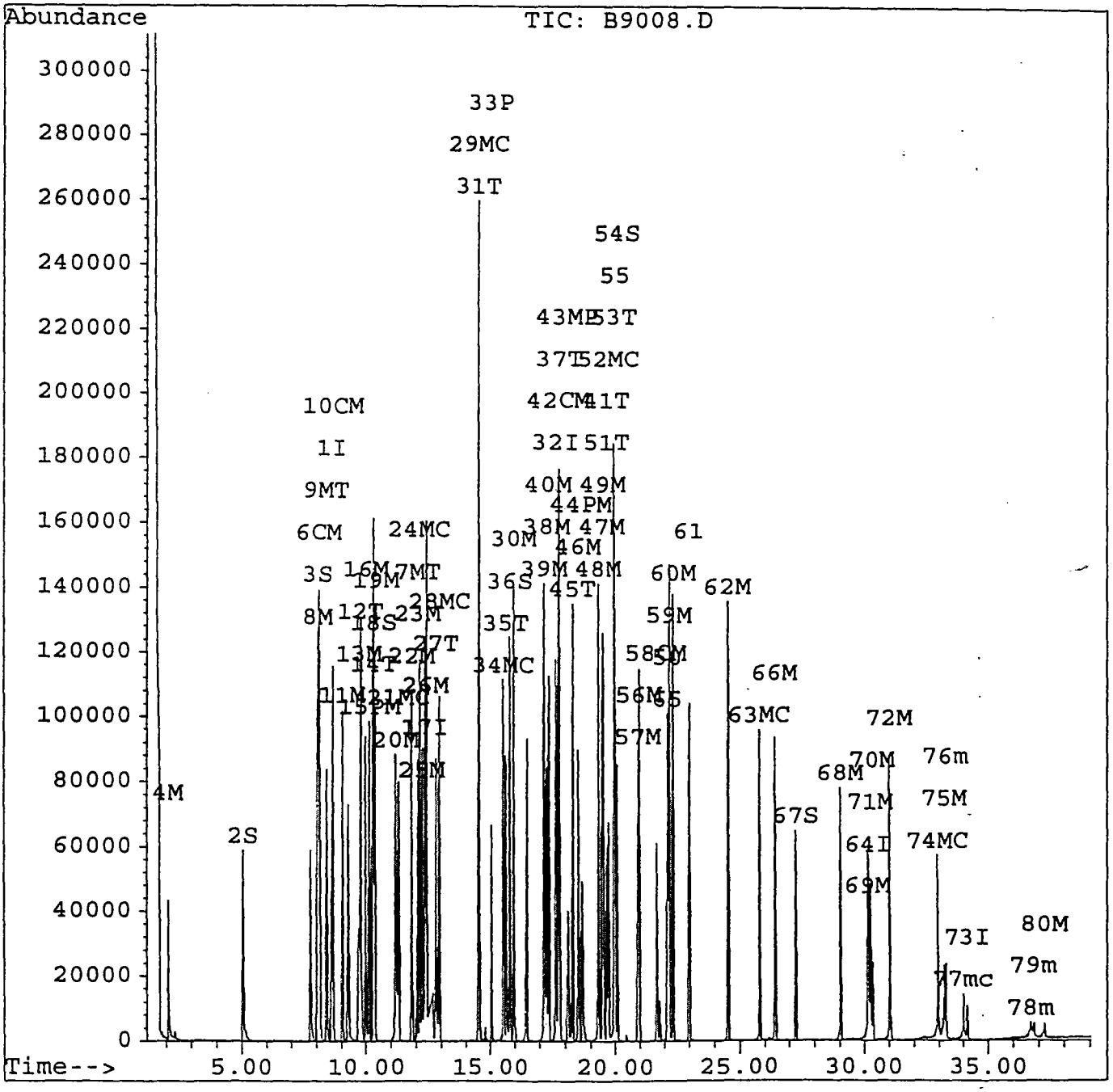
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9008.d
Acq On : 27 Oct 95 1:29 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Oct 30 14:27 1995

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: B9468.D DFTPP Injection Date: 12/26/95

Instrument ID: ABNA DFTPP Injection Time: 1104

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	54.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	42.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	18.4
365	Greater than 0.75% of mass 198	2.9
441	Present, but less than mass 443	9.5
442	40.0 - 110.0% of mass 198	52.8
443	15.0 - 24.0% of mass 442	10.8 (20.4)2

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

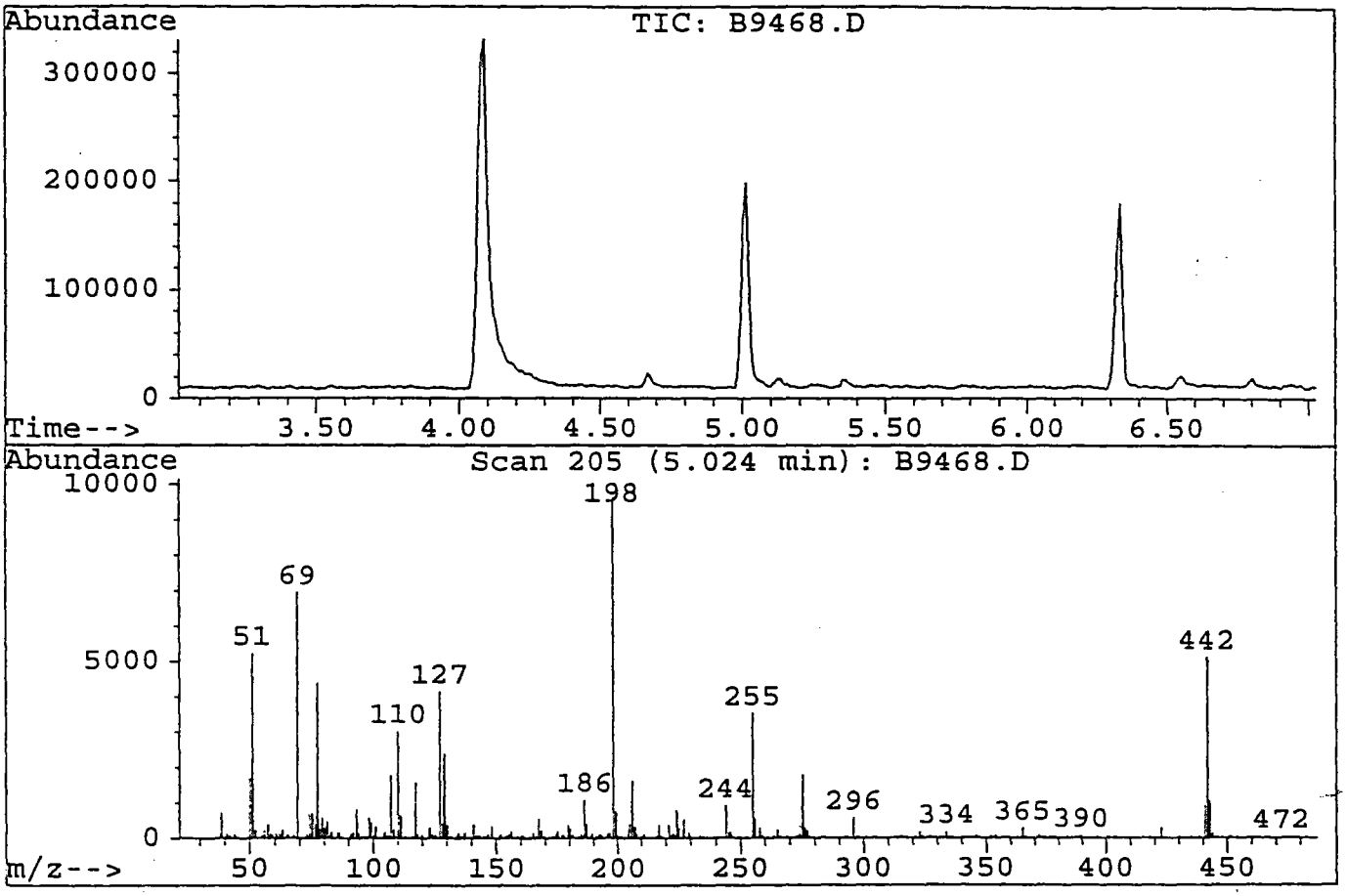
This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 STD	B9469.D	12/26/95	1125
02	SBLK01	BLANK1	B9470.D	12/26/95	1236
03	9558188B	9558188B	B9471.D	12/26/95	1328
04	9558189B	9558189B	B9472.D	12/26/95	1420
05	9558190B	9558190B	B9473.D	12/26/95	1513
06	9558191B	9558191B	B9474.D	12/26/95	1605
07	9558195B	9558195B	B9475.D	12/26/95	1656
08	9558196B	9558196B	B9476.D	12/26/95	1749
09	SBLK02	BLANK2	B9477.D	12/26/95	1840
10	9558311B	9558311B	B9478.D	12/26/95	1932
11	9558313B	9558313B	B9479.D	12/26/95	2023
12	9558314B	9558314B	B9480.D	12/26/95	2115
13	9558315B	9558315B	B9481.D	12/26/95	2206
14	9558316B	9558316B	B9482.D	12/26/95	2257
15	9558317B	9558317B	B9483.D	12/26/95	2348
16					
17					
18					
19					
20					
21					
22					

Data File : C:\HPCHEM\1\DATA2\B9468.D
Acq On : 26 Dec 95 11:04 am
Sample : DFTPP.....
Misc :

Vial: 1
Operator: SCOTTV
Converted from RTE d Inst : ABNA
BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration



Peak Apex is scan: 205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.0	5234	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	71.7	6954	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	42.8	4153	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	9693	PASS
199	198	5	9	7.8	753	PASS
275	198	10	30	18.4	1788	PASS
365	198	1	100	2.9	284	PASS
441	443	0	100	88.4	923	PASS
442	198	40	100	52.8	5118	PASS
443	442	17	23	20.4	1044	PASS

Scan 205 (5.024 min): B9468.D
D TPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	47	51.05	5234	61.85	145	72.95	150
38.10	137	52.15	219	62.95	258	74.05	694
38.90	706	54.35	69	64.75	91	74.95	713
40.00	58	55.05	96	65.05	112	76.15	395
40.80	137	55.85	243	66.75	61	77.05	4390
41.80	72	56.95	401	67.05	65	78.05	260
42.50	37	58.15	122	67.25	59	79.05	568
44.05	129	58.75	60	67.65	93	79.95	283
44.75	28	58.95	64	68.95	6954	81.05	463
48.95	151	60.15	148	70.75	40	82.15	86
49.95	1732	60.85	77	72.05	89	83.05	176

an 205 (5.024 min): B9468.D
)FTPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.15	163	95.45	44	105.85	85	117.85	104
85.95	177	96.05	40	107.05	1802	119.85	89
86.65	38	97.05	78	108.05	248	122.15	174
87.15	38	97.95	577	108.95	47	122.85	306
89.05	21	98.95	424	110.05	3036	123.95	109
89.95	38	100.05	76	110.95	644	124.45	43
90.45	100	100.85	317	112.85	48	125.25	93
91.05	163	102.05	40	114.35	24	126.95	4153
91.85	193	102.45	21	115.85	79	128.05	410
92.95	842	103.85	137	116.05	81	129.05	2392
94.05	134	104.85	208	116.95	1606	129.95	359

can 205 (5.024 min): B9468.D
F PP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.10	58	142.90	98	151.30	107	164.00	81
131.90	59	143.60	31	151.50	106	165.00	154
133.90	111	144.60	20	151.80	64	165.70	30
134.90	161	145.00	68	154.00	92	167.00	545
135.80	82	145.70	61	155.00	129	168.00	209
136.30	39	146.00	79	156.10	200	169.30	58
137.00	167	146.20	81	158.10	53	171.80	80
138.70	21	146.90	149	158.90	49	172.80	70
139.60	14	148.00	338	159.80	76	173.30	66
140.90	391	148.70	43	160.70	111	174.00	146
141.80	88	150.30	17	163.30	43	174.90	216

n 205 (5.024 min): B9468.D
FTPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.80	96	186.90	403	199.00	753	209.00	61
177.10	66	188.20	73	199.90	76	210.30	40
177.40	48	189.00	137	200.50	22	210.80	100
179.00	373	191.10	89	201.30	72	211.10	108
179.80	266	192.00	104	201.70	32	213.70	42
181.00	95	192.70	132	203.00	47	216.10	86
182.50	27	193.20	77	204.10	271	216.95	378
183.20	20	195.10	59	205.00	416	217.85	56
183.80	56	195.90	148	206.00	1641	219.75	18
184.80	134	196.40	140	207.00	321	220.95	368
186.00	1089	198.00	9693	207.90	112	221.75	100

Scan 205 (5.024 min): B9468.D
DEFPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
222.65	119	235.15	45	242.85	29	252.25	20
222.95	127	236.25	31	244.05	933	252.65	45
224.05	792	236.75	32	244.95	168	253.25	35
224.95	279	239.05	70	245.95	152	254.95	3537
226.95	536	239.95	37	246.55	55	255.95	537
228.95	143	240.25	35	247.95	35	257.15	54
230.05	28	240.85	52	248.95	57	257.95	283
233.55	96	241.35	23	249.85	34	258.95	69
234.25	23	241.65	40	250.65	17	260.85	33
234.55	33	241.85	45	251.65	46	262.75	15
234.85	38	242.55	28	251.95	33	263.35	60

Scan 205 (5.024 min): B9468.D
FTPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.85	106	276.05	261	290.45	15	306.20	22
264.95	251	277.05	207	291.75	26	309.40	13
265.95	60	277.95	57	292.35	77	310.10	29
266.85	51	278.95	25	293.15	30	312.90	53
267.65	47	279.25	20	294.05	26	315.00	68
268.65	41	281.85	27	296.05	582	315.90	54
268.95	37	282.65	47	300.55	29	317.80	23
272.05	50	283.15	37	301.05	24	321.00	51
273.05	90	283.35	40	303.90	45	323.10	180
274.05	335	283.75	39	304.90	25	324.00	62
275.05	1788	290.15	34	305.20	45	327.00	55

Scan 205 (5.024 min): B9468.D
FTPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
327.20	55	350.60	23	367.10	23	388.65	55
329.20	13	351.90	71	368.10	39	389.65	76
331.70	19	353.40	56	369.80	17	395.95	26
333.90	180	354.00	84	371.90	93	396.25	29
335.50	34	357.80	26	373.20	47	396.65	44
336.90	35	359.70	21	376.70	67	399.95	24
340.20	20	360.70	27	377.90	31	400.35	12
341.00	13	362.80	45	378.90	52	400.65	18
342.40	31	364.40	39	383.80	59	401.45	23
345.10	34	365.00	284	385.10	34	403.75	32
346.00	80	366.00	31	387.40	35	407.15	32

Scan 205 (5.024 min): B9468.D
FTPP..... Converted from RTE data file >B9468::D5

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
407.65	16	422.95	277	445.45	41	469.45	19
407.85	21	425.15	11	448.15	36	472.25	42
408.45	43	428.75	18	450.35	13		
409.25	10	430.25	28	450.95	33		
410.15	17	434.95	47	451.55	72		
412.45	30	437.35	20	453.95	34		
415.15	38	438.75	49	454.55	17		
418.05	33	441.05	923	454.85	19		
419.95	25	441.95	5118	457.55	10		
420.15	23	443.05	1044	460.55	37		
421.85	38	443.95	130	465.95	33		

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
N-nitrosodimethylamine	0.722	0.640		11.4	
bis(2-Chloroethyl)ether	1.805	1.717		4.9	
1,3-Dichlorobenzene	1.354	1.414		-4.4	
1,4-Dichlorobenzene	1.396	1.400		-0.3	30.0
1,2-Dichlorobenzene	1.356	1.356		0.0	
bis(2-chloroisopropyl)ether	1.568	1.668		-6.4	
N-Nitroso-Di-n-propylamine	1.018	0.877	0.050	13.9	
Hexachloroethane	0.866	0.842		2.8	
Nitrobenzene	0.465	0.462		0.6	
Isophorone	0.691	0.667		3.5	
bis(2-Chloroethoxy)methane	0.421	0.424		-0.7	
1,2,4-Trichlorobenzene	0.296	0.315		-6.4	
Naphthalene	0.906	0.903		0.3	
Hexachlorobutadiene	0.185	0.200		-8.1	30.0
Hexachlorocyclopentadiene	0.335	0.303	0.050	9.6	
2-Chloronaphthalene	0.632	0.670		-6.0	
Dimethylphthalate	1.235	1.292		-4.6	
Acenaphthylene	1.689	1.698		-0.5	
2,6-Dinitrotoluene	0.292	0.323		-10.6	
Acenaphthene	1.053	1.117		-6.1	30.0
2,4-Dinitrotoluene	0.351	0.322		8.3	
Diethylphthalate	1.334	1.547		-16.0	
Fluorene	1.055	1.259		-19.3	
4-Chlorophenyl-phenylether	0.476	0.547		-14.9	
n-Nitrosodiphenylamine	0.472	0.485		-2.8	
1,2-Diphenylhydrazine(as azo)	0.000	0.000			
4-Bromophenyl-phenylether	0.242	0.268		-10.7	
Hexachlorobenzene	0.334	0.357		-6.9	
Phenanthrene	1.028	1.106		-7.6	
Anthracene	1.020	1.117		-9.5	
Di-n-butylphthalate	1.757	1.960		-11.6	
Fluoranthene	1.108	1.305		-17.8	30.0
Benzidine	0.011	0.012		-9.1	
Pyrene	1.221	1.291		-5.7	
Butylbenzylphthalate	0.820	0.858		-4.6	
Benzo[a]anthracene	1.167	1.222		-4.7	
3,3'-Dichlorobenzidine	0.406	0.393		3.2	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chrysene	0.876	0.899		-2.6	
bis(2-Ethylhexyl)phthalate	1.161	1.250		-7.7	
Di-n-octylphthalate	3.068	3.082		-0.5	30.0
Benzo[b]fluoranthene	1.361	1.588		-16.7	
Benzo[k]fluoranthene	1.156	1.098		5.0	
Benzo[a]pyrene	1.041	1.163		-11.7	30.0
Indeno[1,2,3-cd]pyrene	0.538	0.572		-6.3	
Dibenz[a,h]anthracene	0.543	0.586		-7.9	
Benzo[g,h,i]perylene	0.495	0.531		-7.3	
Nitrobenzene-d5	0.381	0.366		3.9	
2-Fluorobiphenyl	1.207	1.129		6.5	
Terphenyl-d14	0.960	1.009		-5.1	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.572	1.543		1.8	30.0
bis(2-Chloroethyl)ether	1.805	1.717		4.9	
2-Chlorophenol	1.292	1.276		1.2	
1,3-Dichlorobenzene	1.354	1.414		-4.4	
1,4-Dichlorobenzene	1.396	1.400		-0.3	.30.0
1,2-Dichlorobenzene	1.356	1.356		0.0	
2-Methylphenol	1.123	1.198		-6.7	
bis(2-chloroisopropyl)ether	1.568	1.668		-6.4	
4-Methylphenol	1.250	1.198		4.2	
N-Nitroso-Di-n-propylamine	1.018	0.877	0.050	13.9	
Hexachloroethane	0.866	0.842		2.8	
Nitrobenzene	0.465	0.462		0.6	
Isophorone	0.691	0.667		3.5	
2-Nitrophenol	0.205	0.235		-14.6	30.0
2,4-Dimethylphenol	0.355	0.353		0.6	
bis(2-Chloroethoxy)methane	0.421	0.424		-0.7	
2,4-Dichlorophenol	0.269	0.285		-5.9	30.0
1,2,4-Trichlorobenzene	0.296	0.315		-6.4	
Naphthalene	0.906	0.903		0.3	
4-Chloroaniline	0.419	0.431		-2.9	
Hexachlorobutadiene	0.185	0.200		-8.1	30.0
4-Chloro-3-methylphenol	0.330	0.334		-1.2	30.0
2-Methylnaphthalene	0.609	0.617		-1.3	
Hexachlorocyclopentadiene	0.335	0.303	0.050	9.6	
2,4,6-Trichlorophenol	0.375	0.357		4.8	30.0
2,4,5-Trichlorophenol	0.337	0.382		-13.4	
2-Chloronaphthalene	0.632	0.670		-6.0	
2-Nitroaniline	0.399	0.439		-10.0	
Dimethylphthalate	1.235	1.292		-4.6	
Acenaphthylene	1.689	1.698		-0.5	
2,6-Dinitrotoluene	0.292	0.323		-10.6	
3-Nitroaniline	0.213	0.254		-19.2	
Acenaphthene	1.053	1.117		-6.1	30.0
2,4-Dinitrophenol	0.139	0.119	0.050	14.4	
4-Nitrophenol	0.216	0.215	0.050	0.5	
Dibenzofuran	1.385	1.409		-1.7	
2,4-Dinitrotoluene	0.351	0.322		8.3	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.334	1.547		-16.0	
Fluorene	1.055	1.259		-19.3	
4-Chlorophenyl-phenylether	0.476	0.547		-14.9	
4-Nitroaniline	0.152	0.143		5.9	
4,6-Dinitro-2-methylphenol	0.122	0.119		2.5	30.0
n-Nitrosodiphenylamine	0.472	0.485		-2.8	
4-Bromophenyl-phenylether	0.242	0.268		-10.7	
Hexachlorobenzene	0.334	0.357		-6.9	
Pentachlorophenol	0.186	0.202		-8.6	30.0
Phenanthrene	1.028	1.106		-7.6	
Anthracene	1.020	1.117		-9.5	
Carbazole	0.865	0.994		-14.9	
Di-n-butylphthalate	1.757	1.960		-11.6	
Fluoranthene	1.108	1.305		-17.8	30.0
Pyrene	1.221	1.291		-5.7	
Butylbenzylphthalate	0.820	0.858		-4.6	
Benzo[a]anthracene	1.167	1.222		-4.7	
3,3'-Dichlorobenzidine	0.406	0.393		3.2	
Chrysene	0.876	0.899		-2.6	
bis(2-Ethylhexyl)phthalate	1.161	1.250		-7.7	
Di-n-octylphthalate	3.068	3.082		-0.5	30.0
Benzo[b]fluoranthene	1.361	1.588		-16.7	
Benzo[k]fluoranthene	1.156	1.098		5.0	
Benzo[a]pyrene	1.041	1.163		-11.7	30.0
Indeno[1,2,3-cd]pyrene	0.538	0.572		-6.3	
Dibenz[a,h]anthracene	0.543	0.586		-7.9	
Benzo[g,h,i]perylene	0.495	0.531		-7.3	
2-Fluorophenol	1.128	1.078		4.4	
Phenol-d5	1.732	1.585		8.5	
Nitrobenzene-d5	0.381	0.366		3.9	
2-Fluorobiphenyl	1.207	1.129		6.5	
2,4,6-Tribromophenol	0.237	0.248		-4.6	
Terphenyl-d14	0.960	1.009		-5.1	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
N-nitrosodimethylamine	0.722	0.640		11.4	
Phenol	1.572	1.543		1.8	30.0
bis(2-Chloroethyl)ether	1.805	1.717		4.9	
2-Chlorophenol	1.292	1.276		1.2	
1,3-Dichlorobenzene	1.354	1.414		-4.4	
1,4-Dichlorobenzene	1.396	1.400		-0.3	30.0
1,2-Dichlorobenzene	1.356	1.356		0.0	
bis(2-chloroisopropyl)ether	1.568	1.668		-6.4	
N-Nitroso-Di-n-propylamine	1.018	0.877	0.050	13.9	
Hexachloroethane	0.866	0.842		2.8	
Nitrobenzene	0.465	0.462		0.6	
Isophorone	0.691	0.667		3.5	
2-Nitrophenol	0.205	0.235		-14.6	30.0
2,4-Dimethylphenol	0.355	0.353		0.6	
bis(2-Chloroethoxy)methane	0.421	0.424		-0.7	
2,4-Dichlorophenol	0.269	0.285		-5.9	30.0
1,2,4-Trichlorobenzene	0.296	0.315		-6.4	
Naphthalene	0.906	0.903		0.3	
Hexachlorobutadiene	0.185	0.200		-8.1	30.0
4-Chloro-3-methylphenol	0.330	0.334		-1.2	30.0
Hexachlorocyclopentadiene	0.335	0.303	0.050	9.6	
2,4,6-Trichlorophenol	0.375	0.357		4.8	30.0
2-Chloronaphthalene	0.632	0.670		-6.0	
Dimethylphthalate	1.235	1.292		-4.6	
Acenaphthylene	1.689	1.698		-0.5	
2,6-Dinitrotoluene	0.292	0.323		-10.6	
Acenaphthene	1.053	1.117		-6.1	30.0
2,4-Dinitrophenol	0.139	0.119	0.050	14.4	
4-Nitrophenol	0.216	0.215	0.050	0.5	
2,4-Dinitrotoluene	0.351	0.322		8.3	
Diethylphthalate	1.334	1.547		-16.0	
Fluorene	1.055	1.259		-19.3	
4-Chlorophenyl-phenylether	0.476	0.547		-14.9	
4,6-Dinitro-2-methylphenol	0.122	0.119		2.5	30.0
n-Nitrosodiphenylamine	0.472	0.485		-2.8	
1,2-Diphenylhydrazine(as azo)	0.000	0.000			
4-Bromophenyl-phenylether	0.242	0.268		-10.7	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: EMSL ANALYTICAL Contract: _____

Project No. _____ Site: _____ Location: _____ Group: _____

Instrument ID: ABNA Calibration Date: #### Time: 1125

Lab File ID: B9469.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1125 0000

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Hexachlorobenzene	0.334	0.357		-6.9	
Pentachlorophenol	0.186	0.202		-8.6	30.0
Phenanthrene	1.028	1.106		-7.6	
Anthracene	1.020	1.117		-9.5	
Di-n-butylphthalate	1.757	1.960		-11.6	
Fluoranthene	1.108	1.305		-17.8	30.0
Benzidine	0.011	0.012		-9.1	
Pyrene	1.221	1.291		-5.7	
Butylbenzylphthalate	0.820	0.858		-4.6	
Benzo[a]anthracene	1.167	1.222		-4.7	
3,3'-Dichlorobenzidine	0.406	0.393		3.2	
Chrysene	0.876	0.899		-2.6	
bis(2-Ethylhexyl)phthalate	1.161	1.250		-7.7	
Di-n-octylphthalate	3.068	3.082		-0.5	30.0
Benzo[b]fluoranthene	1.361	1.588		-16.7	
Benzo[k]fluoranthene	1.156	1.098		5.0	
Benzo[a]pyrene	1.041	1.163		-11.7	30.0
Indeno[1,2,3-cd]pyrene	0.538	0.572		-6.3	
Dibenz[a,h]anthracene	0.543	0.586		-7.9	
Benzo[g,h,i]perylene	0.495	0.531		-7.3	
2-Fluorophenol	1.128	1.078		4.4	
Phenol-d5	1.732	1.585		8.5	
Nitrobenzene-d5	0.381	0.366		3.9	
2-Fluorobiphenyl	1.207	1.129		6.5	
2,4,6-Tribromophenol	0.237	0.248		-4.6	
Terphenyl-d14	0.960	1.009		-5.1	

All other compounds must meet a minimum RRF of 0.010.

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9469.D Vial: 2
Acq On : 26 Dec 95 11:25 am Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	-0.01
	S	2-Fluorophenol	1.128	1.078	4.4	97	0.00
3	S	Phenol-d5	1.732	1.585	8.5	95	-0.01
	M	N-nitrosodimethylamine	0.722	0.640	11.4	89	0.00
		Pyridine	3.013	0.000#	100.0#	0#	-1.49#
6	CM	Phenol	1.572	1.543	1.8	95	-0.01
7	MT	bis(2-Chloroethyl)ether	1.805	1.717	4.9	90	0.00
	M	2-Chlorophenol	1.292	1.276	1.2	94	-0.01
9	MT	1,3-Dichlorobenzene	1.354	1.414	-4.4	101	-0.01
10	CM	1,4-Dichlorobenzene	1.396	1.400	-0.3	96	-0.01
1	M	1,2-Dichlorobenzene	1.356	1.356	0.0	95	-0.01
1	T	2-Methylphenol	1.123	1.198	-6.7	101	0.52#
13	M	bis(2-chloroisopropyl)ether	1.568	1.668	-6.4	130	0.06
1	T	4-Methylphenol	1.250	1.198	4.2	93	0.00
1	PM	N-Nitroso-Di-n-propylamine	1.018	0.877	13.9	81	0.00
16	M	Hexachloroethane	0.866	0.842	2.8	91	-0.02
1	I	Naphthalene-d8	1.000	1.000	0.0	90	-0.02
1	S	Nitrobenzene-d5	0.381	0.366	3.8	90	0.00
19	M	Nitrobenzene	0.465	0.462	0.8	91	0.00
2	M	Isophorone	0.691	0.667	3.4	87	-0.01
2	MC	2-Nitrophenol	0.205	0.235	-14.3	99	0.00
22	M	2,4-Dimethylphenol	0.355	0.353	0.3	90	0.00
2	M	bis(2-Chloroethoxy)methane	0.421	0.424	-0.7	90	0.00
2	MC	2,4-Dichlorophenol	0.269	0.285	-6.0	89	-0.02
25	M	1,2,4-Trichlorobenzene	0.296	0.315	-6.5	94	0.00
26	M	Naphthalene	0.906	0.903	0.3	86	-0.02
2	T	4-Chloroaniline	0.419	0.431	-3.0	96	-0.02
28	MC	Hexachlorobutadiene	0.185	0.200	-8.1	93	-0.02
29	MC	4-Chloro-3-methylphenol	0.330	0.334	-1.1	89	-0.02
3	M	2-Chloronaphthalene	0.632	0.670	-6.0	94	0.00
3	T	2-Methylnaphthalene	0.609	0.617	-1.3	93	-0.02
3	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
3	P	Hexachlorocyclopentadiene	0.335	0.303	9.4	85	-0.02
34	MC	2,4,6-Trichlorophenol	0.375	0.357	5.0	96	-0.02
35	T	2,4,5-Trichlorophenol	0.337	0.382	-13.6	103	-0.02
3	S	2-Fluorobiphenyl	1.207	1.129	6.4	92	-0.02
37	T	2-Nitroaniline	0.399	0.439	-10.1	113	0.00
38	M	Dimethylphthalate	1.235	1.292	-4.7	95	0.00
3	M	Acenaphthylene	1.689	1.698	-0.5	96	0.00
4	M	2,6-Dinitrotoluene	0.292	0.323	-10.5	100	-0.02

#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9469.D Vial: 2
Acq On : 26 Dec 95 11:25 am Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	3-Nitroaniline	0.213	0.254	-19.4	112	0.00
1	CM	Acenaphthene	1.053	1.117	-6.2	102	0.00
13	MP	2,4-Dinitrophenol	0.139	0.119	14.1	118	-0.02
1	PM	4-Nitrophenol	0.216	0.215	0.7	118	-0.02
1	T	Dibenzofuran	1.385	1.409	-1.7	94	-0.02
16	M	2,4-Dinitrotoluene	0.351	0.322	8.3	96	0.00
17	M	Diethylphthalate	1.334	1.547	-16.0	108	-0.02
1	M	Fluorene	1.055	1.259	-19.3	112	0.00
19	M	4-Chlorophenyl-phenylether	0.476	0.547	-14.8	106	-0.02
		Phenanthrene-d10	1.000	1.000	0.0	137	0.00
	T	4-Nitroaniline	0.152	0.143	5.7	109	0.00
52	MC	4,6-Dinitro-2-methylphenol	0.122	0.119	1.9	141	0.00
	T	n-Nitrosodiphenylamine	0.472	0.485	-2.9	123	0.00
	S	2,4,6-Tribromophenol	0.237	0.248	-4.6	136	0.00
55		1,2-Diphenylhydrazine (as a	1.221	1.051	13.9	106	0.00
56	M	4-Bromophenyl-phenylether	0.242	0.268	-10.4	132	0.00
	M	Hexachlorobenzene	0.334	0.357	-6.7	134	-0.01
	CM	Pentachlorophenol	0.186	0.202	-8.7	190#	0.00
59	M	Phenanthrene	1.028	1.106	-7.6	145	0.00
	M	Anthracene	1.020	1.117	-9.6	146	-0.01
		Carbazole	0.865	0.994	-15.0	166#	0.00
62	M	Di-n-butylphthalate	1.757	1.960	-11.6	155#	-0.01
	MC	Fluoranthene	1.108	1.305	-17.8	168#	0.00
64	I	Chrysene-d12	1.000	1.000	0.0	151#	0.00
65		Benzidine	0.011	0.012#	-9.2	170#	-0.34
	M	Pyrene	1.221	1.291	-5.7	163#	0.00
	S	Terphenyl-d14	0.960	1.009	-5.0	171#	-0.01
68	M	Butylbenzylphthalate	0.820	0.858	-4.5	158#	-0.01
	M	Benzo[a]anthracene	1.167	1.222	-4.8	168#	-0.01
	M	3,3'-Dichlorobenzidine	0.406	0.393	3.0	158#	-0.01
71	M	Chrysene	0.876	0.899	-2.6	141	0.00
	M	bis(2-Ethylhexyl)phthalate	1.161	1.250	-7.6	165#	0.00
73	I	Perylene-d12	1.000	1.000	0.0	110	-0.01
74	MC	Di-n-octylphthalate	3.068	3.082	-0.5	132	0.00
	M	Benzo[b]fluoranthene	1.361	1.588	-16.7	132	0.00
76	m	Benzo[k]fluoranthene	1.156	1.098	5.0	103	0.00
77	mc	Benzo[a]pyrene	1.041	1.163	-11.8	127	0.00
	m	Indeno[1,2,3-cd]pyrene	0.538	0.572	-6.4	123	-0.01
	m	Dibenz[a,h]anthracene	0.543	0.586	-7.9	122	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9469.D Vial: 2
Acq On : 26 Dec 95 11:25 am Operator: SCOTTV SUP
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
) M	Benzo[g,h,i]perylene	0.495	0.531	-7.4	131	-0.01

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9469.d
Acq On : 26 Dec 95 11:25 am
Sample : 50 STD.....
Misc :
Quant Time: Dec 27 9:58 1995

Converted from RTE d

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.27	152	7771	40.00	ug/mL	-0.01
17) Naphthalene-d8	11.02	136	31449	40.00	ug/mL	-0.02
32) Acenaphthene-d10	16.26	164	20468	40.00	ug/mL	0.00
50) Phenanthrene-d10	20.65	188	35324	40.00	ug/ml	0.00
64) Chrysene-d12	28.62	240	35218	40.00	ug/mL	0.00
73) Perylene-d12	32.53	264	17686	40.00	ug/mL	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.55	112	10470	47.78	ug/mL	47.78%
3) Phenol-d5	6.82	99	15400	45.77	ug/mL	45.77%
18) Nitrobenzene-d5	9.02	82	14407	48.10	ug/mL	48.10%
36) 2-Fluorobiphenyl	14.49	172	28898	46.78	ug/mL	46.78%
54) 2,4,6-Tribromophenol	18.67	330	10931	52.32	ug/mL	52.32%
67) Terphenyl-d14	25.77	244	44400	52.51	ug/mL	52.51%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.43	74	6215	44.32	ug/ml	100
6) Phenol	6.86	94	14993	49.09	ug/mL	100
7) bis(2-Chloroethyl)ether	10.83	93	16677	47.57	ug/mL	95
8) 2-Chlorophenol	6.71	128	12395	49.39	ug/mL#	88
9) 1,3-Dichlorobenzene	7.05	146	13739	52.21	ug/mL	98
10) 1,4-Dichlorobenzene	7.32	146	13595	50.14	ug/mL	98
11) 1,2-Dichlorobenzene	7.71	146	13168	49.99	ug/mL	94
12) 2-Methylphenol	9.11	108	11634	53.33	ug/mL	93
13) bis(2-chloroisopropyl)ethe	8.54	45	16205	53.19	ug/mLm	97
14) 4-Methylphenol	9.11	108	11634	47.91	ug/mL	93
15) N-Nitroso-Di-n-propylamine	8.88	70	8516	43.07	ug/mL	95
16) Hexachloroethane	8.65	117	8177	48.58	ug/mL	85
19) Nitrobenzene	9.08	77	18146	49.62	ug/mL#	86
20) Isophorone	9.90	82	26231	48.28	ug/mL	99
21) 2-Nitrophenol	10.02	139	9235	57.16	ug/mL#	81
22) 2,4-Dimethylphenol	10.62	107	13895	49.85	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.83	93	16677	50.33	ug/mL#	100
24) 2,4-Dichlorophenol	10.87	162	11201	52.99	ug/mL	95
25) 1,2,4-Trichlorobenzene	10.94	180	12401	53.25	ug/mL	98
26) Naphthalene	11.08	128	35495	49.86	ug/mL	99
27) 4-Chloroaniline	11.50	127	16961	51.52	ug/mL	100
28) Hexachlorobutadiene	11.62	225	7862	54.03	ug/mL	97
29) 4-Chloro-3-methylphenol	13.31	107	13111	50.54	ug/mL	96
30) 2-Chloronaphthalene	14.62	162	26337	53.00	ug/ml#	100
31) 2-Methylnaphthalene	13.20	142	24264	50.67	ug/mL	96
33) Hexachlorocyclopentadiene	13.72	237	7760	45.29	ug/mL	90
34) 2,4,6-Trichlorophenol	14.24	196	9125	47.50	ug/mL	97
35) 2,4,5-Trichlorophenol	14.35	196	9780	56.80	ug/mL	91

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9469.d Vial: 2
Acq On : 26 Dec 95 11:25 am Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 27 9:58 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.45	65	11227	55.05	ug/mL	97
38)	Dimethylphthalate	15.97	163	33061	52.33	ug/mL#	13
39)	Acenaphthylene	15.80	152	43437	50.27	ug/mL	100
40)	2,6-Dinitrotoluene	16.03	165	8264	55.27	ug/mL#	89
41)	3-Nitroaniline	18.30	138	6499	59.70	ug/mLm	94
42)	Acenaphthene	16.36	153	28589	53.08	ug/mL	97
43)	2,4-Dinitrophenol	16.76	184	3056	42.94	ug/mL	88
44)	4-Nitrophenol	17.41	109	5493	49.63	ug/mL	86
45)	Dibenzofuran	16.89	168	36044	50.85	ug/mL#	86
46)	2,4-Dinitrotoluene	17.18	165	8238	45.87	ug/mLm	1
47)	Diethylphthalate	18.15	149	39585	58.01	ug/mL	94
48)	Fluorene	17.92	166	32203	59.65	ug/mL	97
49)	4-Chlorophenyl-phenylether	18.15	204	13995	57.41	ug/mL#	78
51)	4-Nitroaniline	18.30	138	6314	47.15	ug/mLm	94
52)	4,6-Dinitro-2-methylphenol	18.36	198	5268	49.04	ug/mL	100
53)	n-Nitrosodiphenylamine	18.59	169	21420	51.44	ug/mL	98
55)	1,2-Diphenylhydrazine (as	18.61	77	46423	43.04	ug/ml	100
56)	4-Bromophenyl-phenylether	19.57	248	11816	55.22	ug/mL#	90
57)	Hexachlorobenzene	19.48	284	15744	53.36	ug/mL	95
58)	Pentachlorophenol	20.27	266	8927	54.36	ug/mL	95
59)	Phenanthrene	20.73	178	48833	53.79	ug/mL	99
60)	Anthracene	20.86	178	49342	54.79	ug/mLm	99
61)	Carbazole	21.58	167	43897	57.48	ug/ml	96
62)	Di-n-butylphthalate	23.15	149	86560	55.78	ug/mL#	98
63)	Fluoranthene	24.27	202	57609	58.90	ug/mLm	81
65)	Benzidine	20.30	184	538	54.58	ug/mlm	100
66)	Pyrene	24.89	202	56817	52.86	ug/mL#	91
68)	Butylbenzylphthalate	27.60	149	37751	52.27	ug/mL#	31
69)	Benzo[a]anthracene	28.58	228	53808	52.39	ug/mL	99
70)	3,3'-Dichlorobenzidine	28.82	252	17310	48.48	ug/mL	97
71)	Chrysene	28.70	228	39564	51.28	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	29.62	149	55020	53.82	ug/mL#	24
74)	Di-n-octylphthalate	31.51	149	68136	50.23	ug/mLm	100
75)	Benzo[b]fluoranthene	31.61	252	35111	58.34	ug/mLm	96
76)	Benzo[k]fluoranthene	31.69	252	24269	47.49	ug/mLm	96
77)	Benzo[a]pyrene	32.40	252	25718	55.90	ug/mLm	96
78)	Indeno[1,2,3-cd]pyrene	35.04	276	12648	53.19	ug/mL	97
79)	Dibenz[a,h]anthracene	35.17	278	12959	53.95	ug/mL#	93
80)	Benzo[g,h,i]perylene	35.56	276	11744	53.70	ug/mLm	96

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

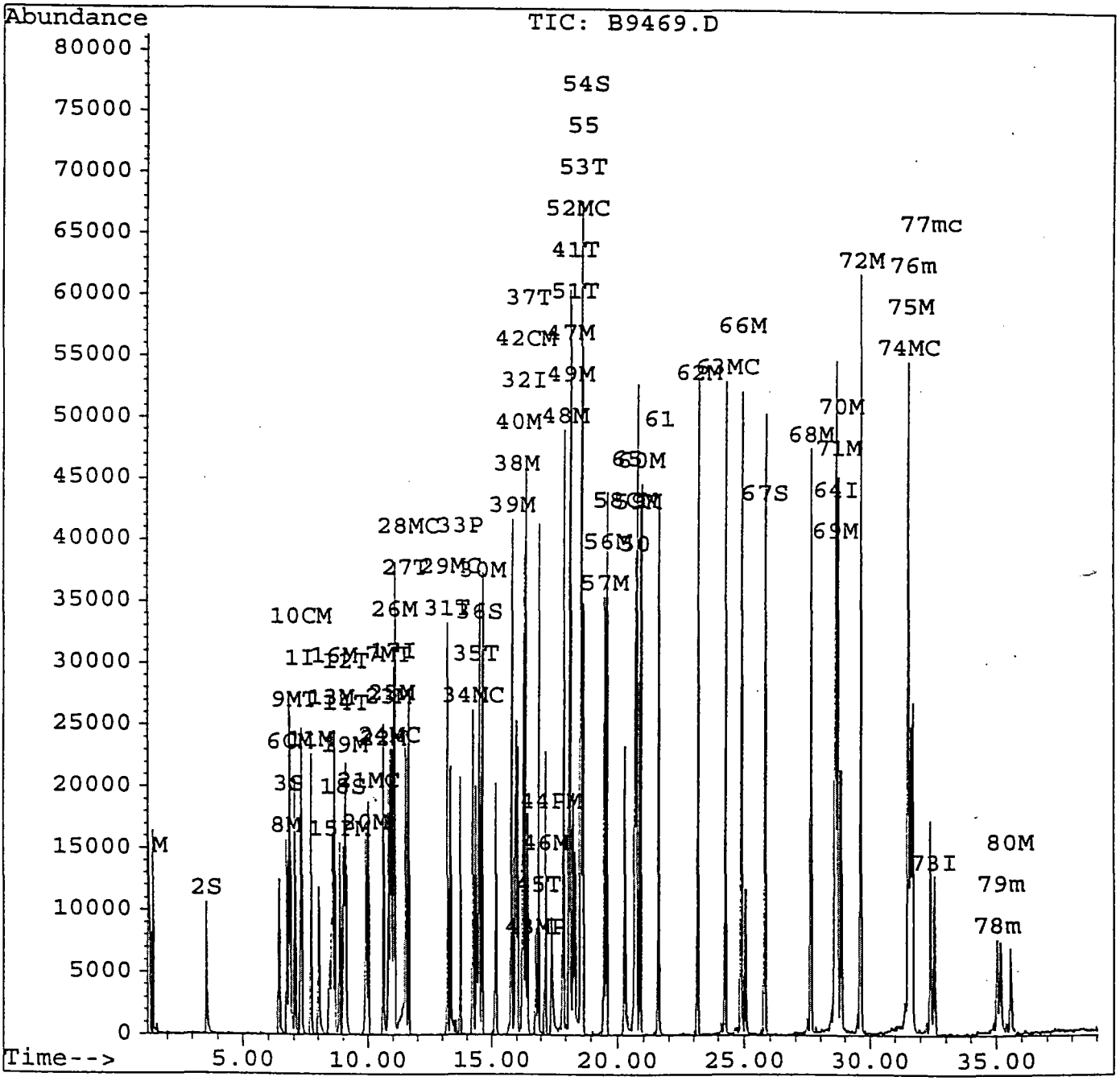
Quantitation Report

Data File : c:\hpchem\1\data2\b9469.d
Acq On : 26 Dec 95 11:25 am
Sample : 50 STD.....
Misc :
Quant Time: Dec 27 9:58 1995

Converted from RTE d

Vial: 2
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): B9008.D Date Analyzed: 10/27/95

Instrument ID: ABNA Time Analyzed: 1329

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	26722	8.59	104351	12.33	57774	17.63
	UPPER LIMIT	53444	9.09	208702	12.83	115548	18.13
	LOWER LIMIT	13361	8.09	52176	11.83	28887	17.13
	SAMPLE NO.						
01	SBLK01	22496	8.59	83610	12.31	47426	17.62
02	9547000B	24097	8.60	94497	12.32	54817	17.61
03	46360MS	24328	8.60	97435	12.32	56181	17.64
04	46360MSD	25002	8.60	97241	12.34	55587	17.64
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): B9008.D Date Analyzed: 10/27/95

Instrument ID: ABNA Time Analyzed: 1329

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	79042	22.12	25699	30.18	9983	34.15
	UPPER LIMIT	158084	22.62	51398	30.68	19966	34.65
	LOWER LIMIT	39521	21.62	12850	29.68	4992	33.65
	SAMPLE NO.						
01	SBLK01	61940	22.09	43279	30.18	19502	34.16
02	9547000B	77921	22.11	44563	30.17	16352	34.16
03	46360MS	74786	22.13	35528	30.18	16536	34.14
04	46360MSD	77102	22.13	28509	30.19	10719	34.15
05							
06							
07							
08							
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11							
12							
13							
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15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): B9469.D Date Analyzed: 12/26/95

Instrument ID: ABNA Time Analyzed: 1125

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7771	7.27	31449	11.02	20468	16.26
	UPPER LIMIT	15542	7.77	62898	11.52	40936	16.76
	LOWER LIMIT	3886	6.77	15725	10.52	10234	15.76
	SAMPLE NO.						
01	SBLK01	7458	7.26	29914	11.00	18755	16.23
02	9558188B	8924	7.26	36767	11.00	23340	16.24
03	9558189B	7941	7.26	31079	11.00	20400	16.24
04	9558190B	7796	7.26	31276	11.00	20007	16.23
05	9558191B	7989	7.26	31787	10.99	19890	16.23
06	9558195B	8219	7.26	31514	11.00	22858	16.23
07	9558196B	7150	7.26	27915	11.00	17186	16.23
08	SBLK02	8386	7.26	32580	11.00	22116	16.23
09	9558311B	9544	7.26	38966	11.00	24933	16.23
10	9558313B	7690	7.26	30820	11.00	19267	16.23
11	9558314B	8550	7.26	35386	11.00	22395	16.23
12	9558315B	8213	7.26	32583	11.00	20978	16.23
13	9558316B	7706	7.26	32060	11.00	21124	16.23
14	9558317B	8821	7.27	38250	11.00	25653	16.24
15							
16							
17							
18							
19							
20							
21							
22							

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

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): B9469.D Date Analyzed: 12/26/95

Instrument ID: ABNA Time Analyzed: 1125

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	35324		20.65		35218		28.62		17686		32.53	
	UPPER LIMIT	70648		21.15		70436		29.12		35372		33.03	
	LOWER LIMIT	17662		20.15		17609		28.12		8843		32.03	
	SAMPLE NO.												
01	SBLK01	35414		20.64		45521		28.61		31190		32.56	
02	9558188B	40695		20.65		46341		28.60		31872		32.55	
03	9558189B	35349		20.65		39375		28.60		25346		32.54	
04	9558190B	35474		20.64		42253		28.59		27158		32.54	
05	9558191B	32983		20.64		49439		28.61		36893	*	32.55	
06	9558195B	38128		20.64		44965		28.59		30511		32.54	
07	9558196B	31872		20.62		44817		28.59		34345		32.56	
08	SBLK02	39178		20.64		48266		28.59		36878	*	32.56	
09	9558311B	41078		20.64		60115		28.61		41191	*	32.54	
10	9558313B	37750		20.64		48903		28.59		37763	*	32.56	
11	9558314B	39827		20.62		50880		28.59		44639	*	32.54	
12	9558315B	38289		20.64		53562		28.59		40526	*	32.54	
13	9558316B	38478		20.64		50164		28.59		37293	*	32.54	
14	9558317B	43586		20.63		53856		28.61		40386	*	32.55	
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 227

9558311B

MW1-253761

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9478.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 228

9558311B
THWI-293376

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9478.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	n-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-08	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. 229

9558311B
MCM -293376

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: 9558311B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9478.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
2.				
3.				
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Quantitation Report

Data File : c:\hpchem\1\data2\b9478.d Vial: 11
Acq On : 26 Dec 95 7:32 pm Operator: SCOTTV
Sample : 58311..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 27 10:59 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	9544	40.00	ug/mL	-0.02
17) Naphthalene-d8	11.00	136	38966	40.00	ug/mL	-0.04
32) Acenaphthene-d10	16.23	164	24933	40.00	ug/mL	-0.02
50) Phenanthrene-d10	20.64	188	41078	40.00	ug/ml	0.00
64) Chrysene-d12	28.61	240	60115	40.00	ug/mL	0.00
73) Perylene-d12	32.54	264	41191	40.00	ug/mL	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	3.55	112	11407	42.39	ug/mL	42.39%
3) Phenol-d5	6.80	99	12367	29.93	ug/mL	29.93%
18) Nitrobenzene-d5	8.99	82	22931	61.79	ug/mL	61.79%
36) 2-Fluorobiphenyl	14.48	172	41280	54.86	ug/mL	54.86%
54) 2,4,6-Tribromophenol	18.64	330	20092	82.70	ug/mL	82.70%
67) Terphenyl-d14	25.80	244	97210	67.35	ug/mL	67.35%
Target Compounds						**Qvalue**

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

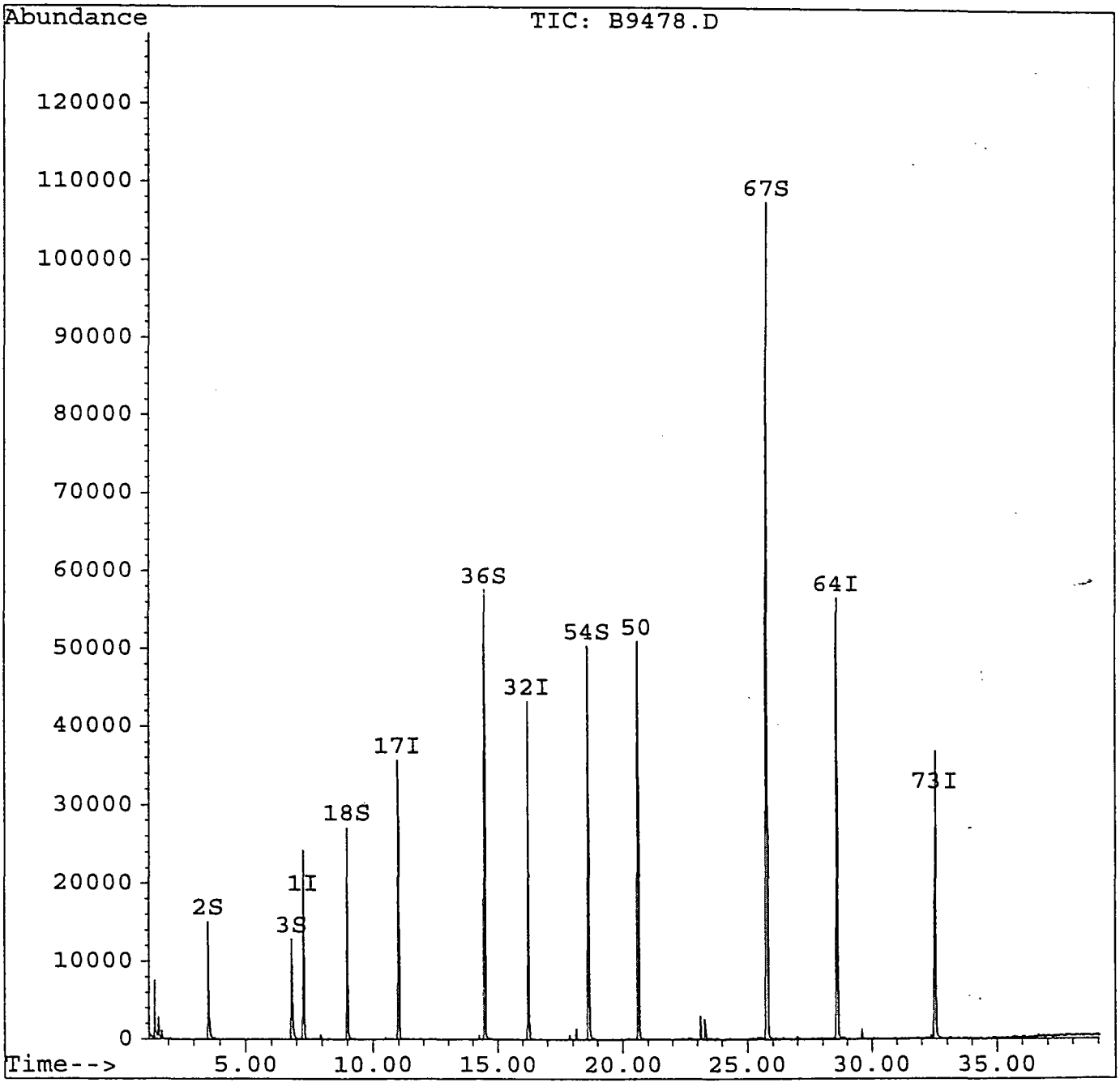
Quantitation Report

Data File : c:\hpchem\1\data2\b9478.d
Acq On : 26 Dec 95 7:32 pm
Sample : 58311.....
Misc :
Quant Time: Dec 27 10:59 1995

Converted from RTE d

Vial: 11
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 9558313B Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 9558313B Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	n-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-08	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. 234

9558313B
Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9558313B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9479.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown Hydrocarbon	27.84	6	J
2.				
3.				
4.				
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Quantitation Report

Data File : c:\hpchem\1\data2\b9479.d
Acq On : 26 Dec 95 8:23 pm
Sample : 58313.....
Misc :
Quant Time: Dec 27 11:00 1995

Converted from RTE d

Vial: 12
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	7690	40.00	ug/mL	-0.02
17) Naphthalene-d8	11.00	136	30820	40.00	ug/mL	-0.04
32) Acenaphthene-d10	16.23	164	19267	40.00	ug/mL	-0.02
50) Phenanthrene-d10	20.64	188	37750	40.00	ug/ml	0.00
64) Chrysene-d12	28.59	240	48903	40.00	ug/mL	-0.03
73) Perylene-d12	32.56	264	37763	40.00	ug/mL	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	3.55	112	8809	40.62	ug/mL	40.62%
3) Phenol-d5	6.80	99	8566	25.72	ug/mL	25.72%
18) Nitrobenzene-d5	8.99	82	16404	55.88	ug/mL	55.88%
36) 2-Fluorobiphenyl	14.48	172	31019	53.34	ug/mL	53.34%
54) 2,4,6-Tribromophenol	18.64	330	15518	69.50	ug/mL	69.50%
67) Terphenyl-d14	25.80	244	85905	73.17	ug/mL	73.17%
Target Compounds						**Qvalue**

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

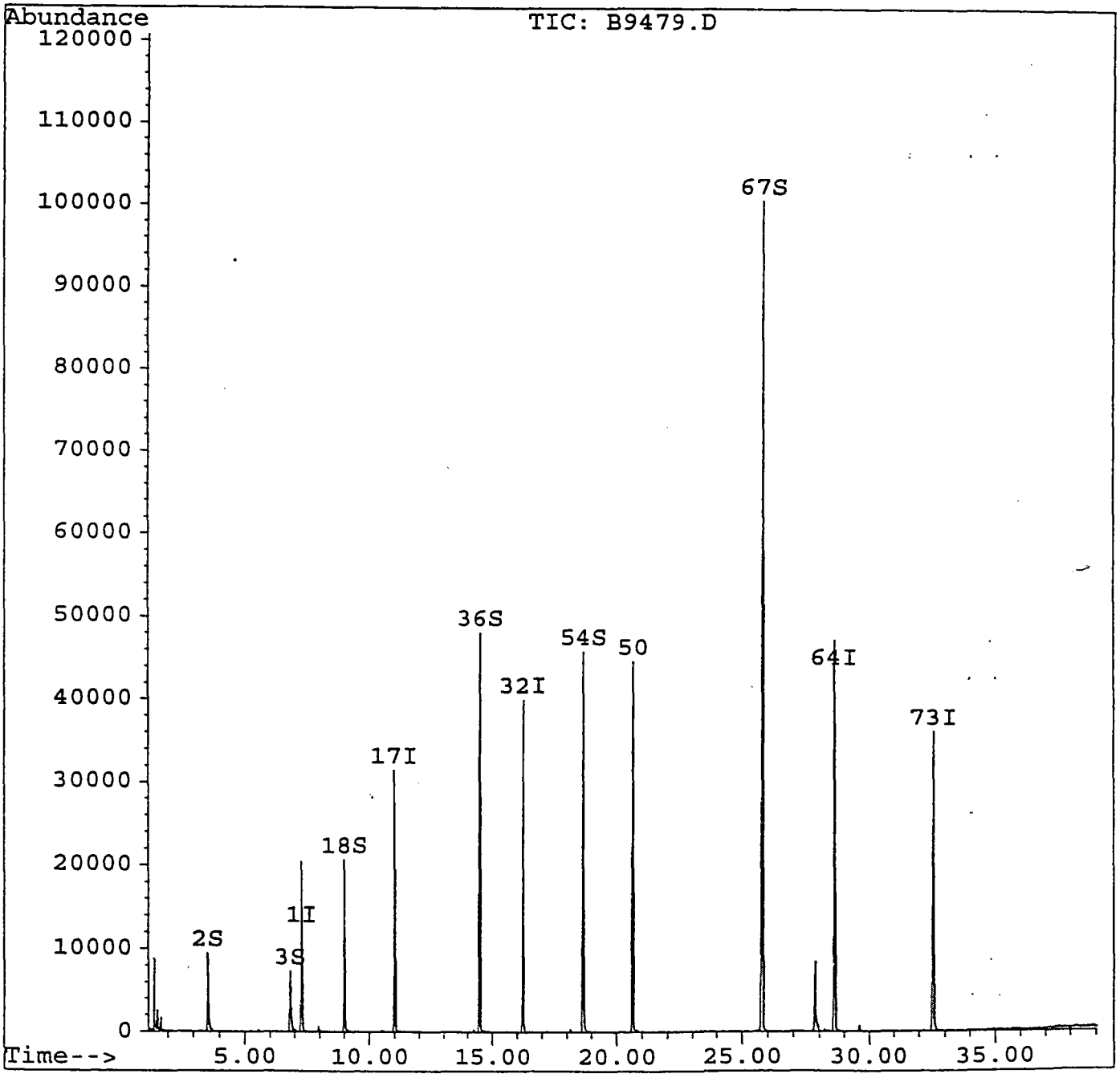
Quantitation Report

Data File : c:\hpchem\1\data2\b9479.d
Acq On : 26 Dec 95 8:23 pm
Sample : 58313.....
Misc :
Quant Time: Dec 27 11:00 1995

Converted from RTE d

Vial: 12
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Library Search Compound Report

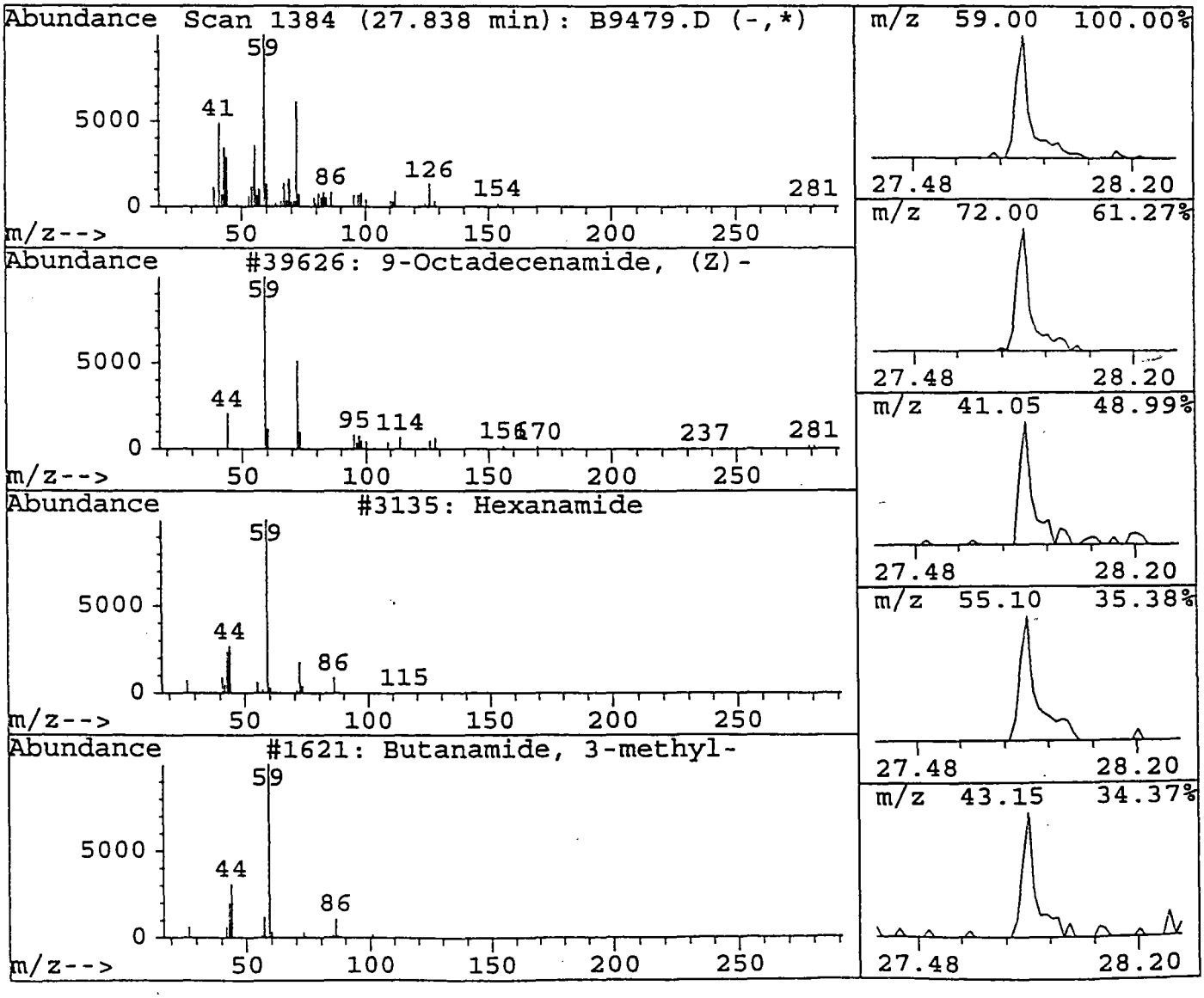
Data File : c:\hpchem\1\data2\b9479.d
Acq On : 26 Dec 95 8:23 pm
Sample : 58313.....
Misc :

Vial: 12
Operator: SCOTTV
Converted from RTE d Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.84	6.33 ug/mL	22455	Chrysene-d12	28.59

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9-Octadecenamide, (Z)-	39626	000301-02-0	72
2	Hexanamide	3135	000628-02-4	38
3	Butanamide, 3-methyl-	1621	000541-46-8	37
4	Cyclooctanemethanol, .alpha.,.alpha	15325	016624-06-9	35
5	2-Propanone, 1-cyclopentyl-	4580	001122-98-1	32



2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

	SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	#	#	#	#	#	TOT OUT
01	SBLK01	41	37	65						
02	9547000B	56	49	91						
03	46360MS	54	58	110						
04	46360MSD	51	56	121						
05										
06										
07										
08										
09										
10										
11										
12										
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30										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(22-101)
S2 (FBP) = 2-Fluorobiphenyl	(20-94)
S3 (TPH) = Terphenyl-d14	(35-127)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

	SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	#	#	TOT OUT
01	SBLK01	43	28	59	58	71	72			
02	9558188B	26	18	33	35	64	59			
03	9558189B	28	20	51	52	73	83			
04	9558190B	29	21	61	56	62	77			
05	9558191B	36	24	52	48	63	64			
06	9558195B	38	27	64	57	66	74			
07	9558196B	40	27	63	60	59	70			
08	SBLK02	45	29	64	58	67	73			
09	9558311B	42	30	62	55	83	67			
10	9558313B	41	26	56	53	70	73			
11	9558314B			64	56		68			
12	9558315B			74	59		75			
13	9558316B			68	53		76			
14	9558317B			46	37		61			
15										
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	QC LIMITS
S1 (2FP) = 2-Fluorophenol	(4-106)
S2 (PHL) = Phenol-d5	(5-87)
S3 (NBZ) = Nitrobenzene-d5	(22-101)
S4 (FBP) = 2-Fluorobiphenyl	(20-94)
S5 (TBP) = 2,4,6-Tribromophenol	(17-126)
S6 (TPH) = Terphenyl-d14	(35-127)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: B9009.D Lab Sample ID: BLANK1

Instrument ID: ABNA Date Extracted: 10/18/95

Matrix: (soil/water) WATER Date Analyzed: 10/27/95

Level: (low/med) _____ Time Analyzed: 1421

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	9547000B	9547000B	B9010.D	10/27/95
02	46360MS	46360MS	B9011.D	10/27/95
03	46360MSD	46360MSD	B9012.D	10/27/95
04				
05				
06				
07				
08				
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 241

SBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK1

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9009.D

Level: (low/med) _____ Date Received: 10/13/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 10/18/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-nitrosodimethylamine	2	U
111-44-4	bis(2-Chloroethyl)ether	1	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	2	U
108-60-1	bis(2-chloroisopropyl)ether	5	U
621-64-7	N-Nitroso-Di-n-propylamine	2	U
67-72-1	Hexachloroethane	1	U
98-95-3	Nitrobenzene	2	U
78-59-1	Isophorone	1	U
111-91-1	bis(2-Chloroethoxy)methane	3	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
77-47-4	Hexachlorocyclopentadiene	12	U
91-58-7	2-Chloronaphthalene	1	U
131-11-3	Dimethylphthalate	1	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
83-32-9	Acenaphthene	3	U
121-14-2	2,4-Dinitrotoluene	3	U
84-66-2	Diethylphthalate	1	U
86-73-7	Fluorene	3	U
7005-72-3	4-Chlorophenyl-phenylether	3	U
86-30-6	n-Nitrosodiphenylamine	6	U
122-66-7	1,2-Diphenylhydrazine(as azo)	6	U
101-55-3	4-Bromophenyl-phenylether	2	U
118-74-1	Hexachlorobenzene	2	U
85-01-08	Phenanthrene	2	U
120-12-7	Anthracene	2	U
84-74-2	Di-n-butylphthalate	5	
206-44-0	Fluoranthene	1	U
92-87-5	Benzidine	1	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 242

SBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK1

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9009.D

Level: (low/med) _____ Date Received: 10/13/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 10/18/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
129-00-0	Pyrene	2	U
85-68-7	Butylbenzylphthalate	9	U
56-55-3	Benzo[a]anthracene	2	U
91-94-1	3,3'-Dichlorobenzidine	15	U
218-01-9	Chrysene	2	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	U
117-84-0	Di-n-octylphthalate	2	U
205-99-2	Benzo[b]fluoranthene	1	U
207-08-9	Benzo[k]fluoranthene	2	U
50-32-8	Benzo[a]pyrene	2	U
193-39-5	Indeno[1,2,3-cd]pyrene	2	U
53-70-3	Dibenz[a,h]anthracene	3	U
191-24-2	Benzo[g,h,i]perylene	2	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SBLK01

243

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: BLANK1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9009.D

Level: (low/med) Date Received: 10/13/95

% Moisture: decanted: (Y/N) N Date Extracted: 10/18/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/27/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1.	Unknown	6.94	2	J
2.				
3.				
4.				
5.				
6.				
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30.				

Quantitation Report

Data File : c:\hpchem\1\data2\b9009.d Vial: 3
Acq On : 27 Oct 95 2:21 pm Operator: SCOTTV
Sample : BLANK..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 31 15:20 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.59	152	22496	40.00	ug/mL	-0.10
17) Naphthalene-d8	12.31	136	83610	40.00	ug/mL	-0.12
32) Acenaphthene-d10	17.62	164	47426	40.00	ug/mL	-0.11
50) Phenanthrene-d10	22.09	188	61940	40.00	ug/ml	-0.14
64) Chrysene-d12	30.18	240	43279	40.00	ug/mL	-0.11
73) Perylene-d12	34.16	264	19502	40.00	ug/mL	-0.08
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.01	112	31567	44.02	ug/mL	44.02%
3) Phenol-d5	8.01	99	53072	45.61	ug/mL	45.61%
18) Nitrobenzene-d5	10.27	82	46833	41.33	ug/mL	41.33%
36) 2-Fluorobiphenyl	15.77	172	53376	36.90	ug/mL	36.90%
54) 2,4,6-Tribromophenol	20.03	330	7869	40.12	ug/mL	40.12%
67) Terphenyl-d14	27.27	244	69697	64.83	ug/mL	64.83%
Target Compounds						Qvalue
62) Di-n-butylphthalate	24.52	149	16902	5.43	ug/mL#	98

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

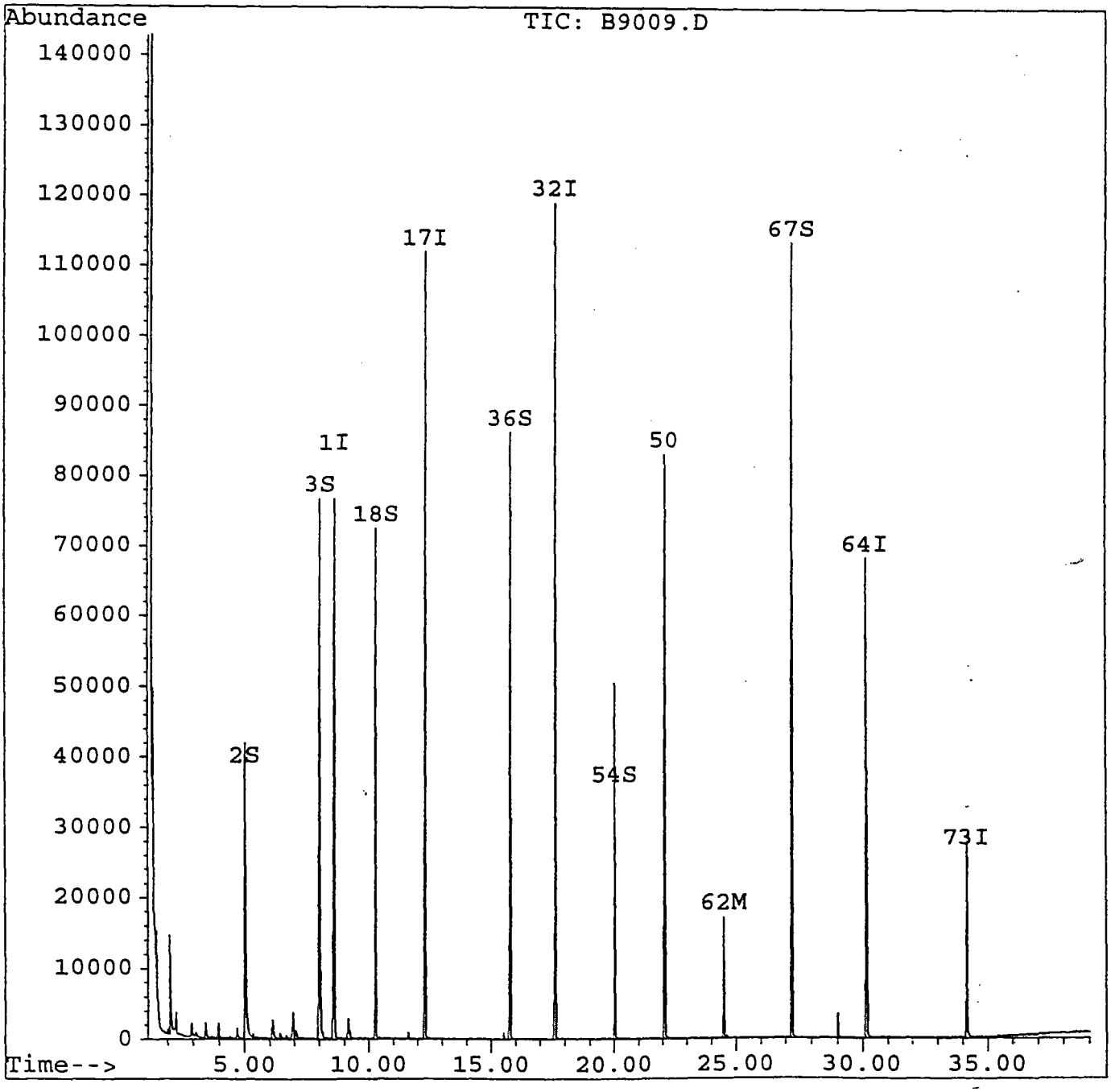
Quantitation Report

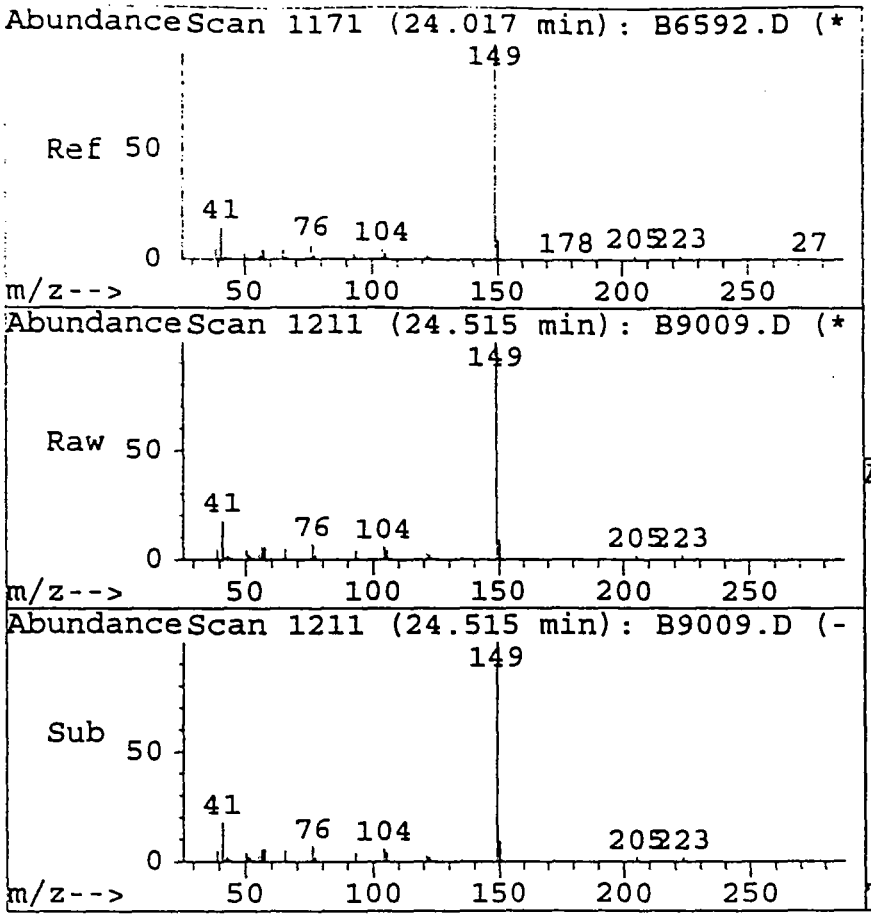
Data File : c:\hpchem\1\data2\b9009.d
Acq On : 27 Oct 95 2:21 pm
Sample : BLANK.....
Misc :
Quant Time: Oct 31 15:20 1995

Converted from RTE d

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

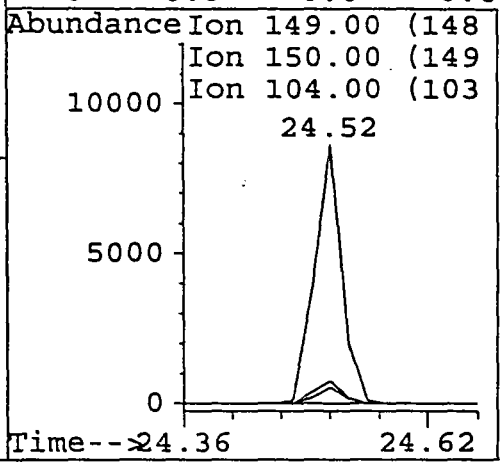




#62
Di-n-butylphthalate
Concen: 5.43 ug/mL
RT: 24.52 min Scan# 1211
Delta R.T. -0.12 min
Lab File: b9009.d
Acq: 27 Oct 95 2:21 pm

Tgt Ion:149 Resp: 16902

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	6.4	3.7	5.5#
0	0.0	0.0	0.0



Library Search Compound Report

Data File : c:\hpchem\1\data2\b9009.d
Acq On : 27 Oct 95 2:21 pm
Sample : BLANK.....
Misc :

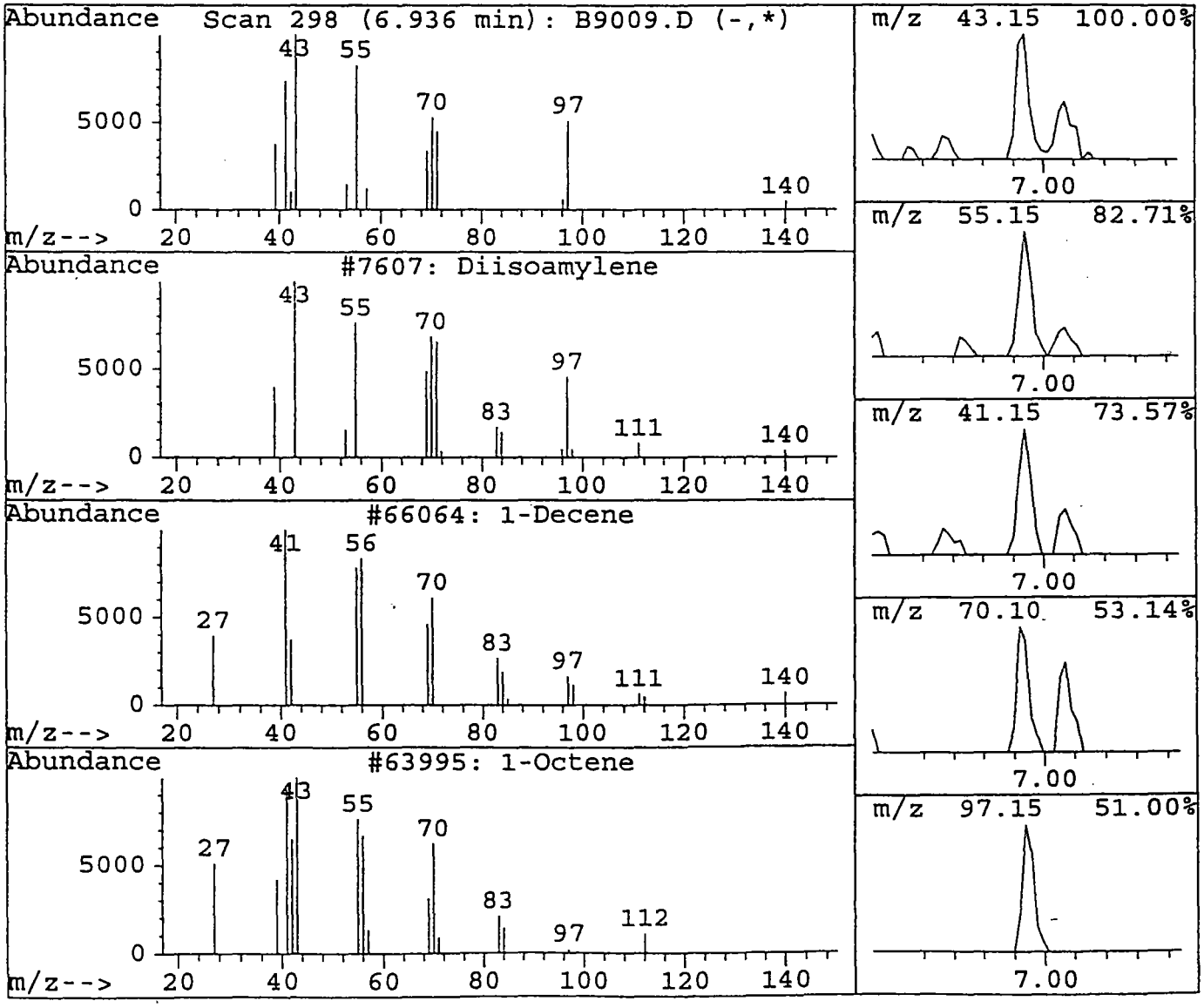
Converted from RTE d

Vial: 3
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
6.94	2.46 ug/ml	10825	1,4-Dichlorobenzene-d4	8.59

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Diisoamylene	7607	054063-09-1	64
2	1-Decene	66064	000872-05-9	35
3	1-Octene	63995	000111-66-0	35
4	Heptane, 4-methyl-	3096	000589-53-7	25
5	Cyclopentane, 1,2-dimethyl-, cis-	1367	001192-18-3	25



4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO. SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: B9477.D Lab Sample ID: BLANK2

Instrument ID: ABNA Date Extracted: 12/23/95

Matrix: (soil/water) WATER Date Analyzed: 12/26/95

Level: (low/med) _____ Time Analyzed: 1840

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	9558311B	9558311B	B9478.D	12/26/95
02	9558313B	9558313B	B9479.D	12/26/95
03	9558314B	9558314B	B9480.D	12/26/95
04	9558315B	9558315B	B9481.D	12/26/95
05	9558316B	9558316B	B9482.D	12/26/95
06	9558317B	9558317B	B9483.D	12/26/95
07				
08				
09				
10				
11				
12				
13				
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 249

SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK2

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9477.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-nitrosodimethylamine	2	U
111-44-4	bis(2-Chloroethyl)ether	1	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	2	U
108-60-1	bis(2-chloroisopropyl)ether	5	U
621-64-7	N-Nitroso-Di-n-propylamine	2	U
67-72-1	Hexachloroethane	1	U
98-95-3	Nitrobenzene	2	U
78-59-1	Isophorone	1	U
111-91-1	bis(2-Chloroethoxy)methane	3	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
87-68-3	Hexachlorobutadiene	2	U
77-47-4	Hexachlorocyclopentadiene	12	U
91-58-7	2-Chloronaphthalene	1	U
131-11-3	Dimethylphthalate	1	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	2	U
83-32-9	Acenaphthene	3	U
121-14-2	2,4-Dinitrotoluene	3	U
84-66-2	Diethylphthalate	1	U
86-73-7	Fluorene	3	U
7005-72-3	4-Chlorophenyl-phenylether	3	U
86-30-6	n-Nitrosodiphenylamine	6	U
122-66-7	1,2-Diphenylhydrazine(as azo)	6	U
101-55-3	4-Bromophenyl-phenylether	2	U
118-74-1	Hexachlorobenzene	2	U
85-01-08	Phenanthrene	2	U
120-12-7	Anthracene	2	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	1	U
92-87-5	Benzidine	1	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 250

SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK2

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9477.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
129-00-0	Pyrene	2	U
85-68-7	Butylbenzylphthalate	9	U
56-55-3	Benzo[a]anthracene	2	U
91-94-1	3,3'-Dichlorobenzidine	15	U
218-01-9	Chrysene	2	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	U
117-84-0	Di-n-octylphthalate	2	U
205-99-2	Benzo[b]fluoranthene	1	U
207-08-9	Benzo[k]fluoranthene	2	U
50-32-8	Benzo[a]pyrene	2	U
193-39-5	Indeno[1,2,3-cd]pyrene	2	U
53-70-3	Dibenz[a,h]anthracene	3	U
191-24-2	Benzo[g,h,i]perylene	2	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK2

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9477.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 252

SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK2

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9477.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	n-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-08	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo[a]anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

1F

SAMPLE NO. 253

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK02

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: BLANK2

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9477.D

Level: (low/med) _____ Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/23/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/26/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

CAS Number	Compound Name	RT	Est. Conc	Q
1.	NONE FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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27.				
28.				
29.				
30.				

Quantitation Report

Data File : c:\hpchem\1\data2\b9477.d Vial: 10
Acq On : 26 Dec 95 6:40 pm Operator: SCOTTV
Sample : BLANK..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 27 10:58 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	8386	40.00	ug/mL	-0.02
17) Naphthalene-d8	11.00	136	32580	40.00	ug/mL	-0.04
32) Acenaphthene-d10	16.23	164	22116	40.00	ug/mL	-0.02
50) Phenanthrene-d10	20.64	188	39178	40.00	ug/ml	0.00
64) Chrysene-d12	28.59	240	48266	40.00	ug/mL	-0.03
73) Perylene-d12	32.56	264	36878	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.53	112	10529	44.53	ug/mL	44.53%
3) Phenol-d5	6.78	99	10502	28.92	ug/mL	28.92%
18) Nitrobenzene-d5	9.00	82	19835	63.92	ug/mL	63.92%
36) 2-Fluorobiphenyl	14.48	172	38587	57.81	ug/mL	57.81%
54) 2,4,6-Tribromophenol	18.64	330	15568	67.19	ug/mL	67.19%
67) Terphenyl-d14	25.80	244	85054	73.40	ug/mL	73.40%
Target Compounds						Qvalue

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

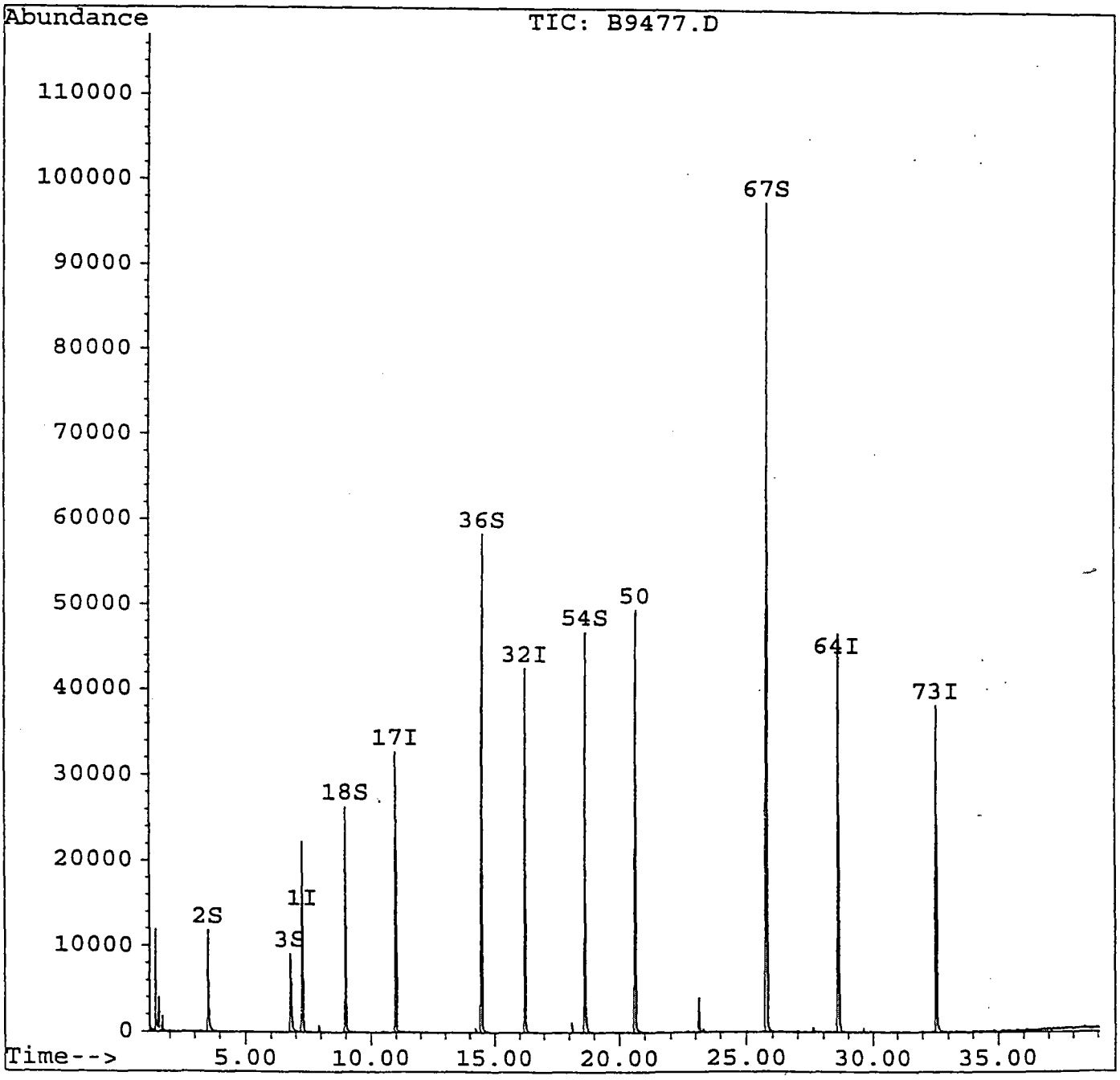
Quantitation Report

Data File : c:\hpchem\1\data2\b9477.d
Acq On : 26 Dec 95 6:40 pm
Sample : BLANK.....
Misc :
Quant Time: Dec 27 10:58 1995

Converted from RTE d

Vial: 10
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Tue Dec 26 12:09:14 1995
Response via : Multiple Level Calibration



Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:21:54 1995
Response via : Initial Calibration

Non-Spiked Sample: B8997.D

	Spike Sample	Spike Duplicate Sample
File ID :	B9011.D	B9012.D
Sample :	46360MS.....	Converted from RTE data file >B9011::D5

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
N-nitrosodimethylami	0.3	100	42	50	41	49	18	100	1-300
Phenol	0.6	100	59	59	59	59	0	23	5-112
bis(2-Chloroethyl)et	0.0	100	57	51	57	51	11	55	12-158
2-Chlorophenol	0.0	100	57	53	57	53	8	29	23-134
1,3-Dichlorobenzene	0.0	100	45	43	45	43	3	42	1-172
1,4-Dichlorobenzene	0.0	100	47	45	47	45	5	32	20-124
1,2-Dichlorobenzene	0.0	100	47	45	47	45	5	31	32-129
bis(2-chloroisopropy	0.0	100	77	72	77	72	7	46	36-166
N-Nitroso-Di-n-propy	0.0	100	51	47	51	47	9	55	1-230
Hexachloroethane	0.0	100	44	41	44	41	7	25	40-113
Nitrobenzene	0.2	100	50	48	50	47	5	39	35-180
Isophorone	0.0	100	48	45	48	45	7	63	21-196
2-Nitrophenol	0.0	100	54	50	54	50	8	35	29-182
2,4-Dimethylphenol	0.0	100	75	84	75	84	11	26	32-119
bis(2-Chloroethoxy)m	0.0	100	56	51	56	51	8	35	33-184
2,4-Dichlorophenol	0.0	100	72	77	72	77	7	26	39-135
1,2,4-Trichlorobenze	0.0	100	49	46	49	46	7	28	44-142
Naphthalene	0.3	100	52	48	51	48	7	30	21-133
Hexachlorobutadiene	0.0	100	52	48	52	48	6	26	24-116
4-Chloro-3-methylphe	0.0	100	74	83	74	83	11	37	22-147
2-Chloronaphthalene	0.0	100	63	61	63	61	3	13	60-118
2,4,6-Trichloropheno	0.0	100	65	73	65	73	12	32	37-144
Dimethylphthalate	0.0	100	11	11	11	11	3	23	1-112
Acenaphthylene	0.0	100	62	63	62	63	2	40	33-145
2,6-Dinitrotoluene	0.0	100	96	99	96	99	3	30	50-158
Acenaphthene	0.0	100	73	74	73	74	1	28	47-145
2,4-Dinitrophenol	0.0	100	54	60	54	60	10	50	1-191
4-Nitrophenol	0.0	100	50	52	50	52	3	47	1-132
2,4-Dinitrotoluene	0.0	100	83	83	83	83	0	22	39-139
Diethylphthalate	0.0	100	20	20	20	20	1	27	1-114
Fluorene	0.0	100	80	83	80	83	4	21	59-121
4-Chlorophenyl-pheny	0.0	100	78	81	78	81	3	33	25-158
4,6-Dinitro-2-methyl	0.1	100	85	87	85	87	2	93	1-181
4-Bromophenyl-phenyl	0.0	100	93	89	93	89	4	23	53-127
Hexachlorobenzene	0.0	100	88	88	88	88	0	25	1-152
Pentachlorophenol	0.0	100	77	81	77	81	5	49	14-176
Phenanthrene	0.1	100	86	94	86	94	9	21	54-120
Anthracene	0.1	100	74	79	74	79	7	32	52-115
Di-n-butylphthalate	20.6	100	53	59	33	38	14	17	1-118
Fluoranthene	0.1	100	75	75	75	75	0	33	26-137
Pyrene	0.2	100	102	101	102	100	2	25	52-115
Butylbenzylphthalate	0.0	100	62	65	62	65	5	23	1-152
Benzo[a]anthracene	0.2	100	84	88	83	88	5	28	33-143

Chrysene	0.3	100	86	92	85	92	8	48	17-168
bis(2-Ethylhexyl)pht	0.0	100	89	101	89	101	12	41	8-158
Di-n-octylphthalate	0.2	100	74	87	74	86	16	31	4-146
Benzo[b]fluoranthene	0.0	100	71	89	71	89	23	39	24-159
Benzo[k]fluoranthene	0.0	100	71	77	71	77	7	32	11-162
Benzo[a]pyrene	0.0	100	83	88	83	88	7	39	17-163
Indeno[1,2,3-cd]pyre	0.0	100	81	94	81	94	15	45	1-171
Dibenz[a,h]anthracen	0.0	100	70	86	70	86	20	70	1-227
Benzo[g,h,i]perylene	0.0	100	72	86	72	86	17	59	1-219

Quantitation Report

Data File : c:\hpchem\1\data2\b9011.d Vial: 5
Acq On : 27 Oct 95 4:04 pm Operator: SCOTTV
Sample : 46360MS..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 31 15:39 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.60	152	24328	40.00	ug/mL	-0.09
17) Naphthalene-d8	12.32	136	97435	40.00	ug/mL	-0.11
32) Acenaphthene-d10	17.64	164	56181	40.00	ug/mL	-0.09
50) Phenanthrene-d10	22.13	188	74786	40.00	ug/ml	-0.10
64) Chrysene-d12	30.18	240	35528	40.00	ug/mL	-0.10
73) Perylene-d12	34.14	264	16536	40.00	ug/mL	-0.10
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.07	112	40915	52.76	ug/mL	52.76%
3) Phenol-d5	8.10	99	81492	64.76	ug/mL	64.76%
18) Nitrobenzene-d5	10.29	82	71765	54.35	ug/mL	54.35%
36) 2-Fluorobiphenyl	15.81	172	99873	58.28	ug/mL	58.28%
54) 2,4,6-Tribromophenol	20.10	330	20403	86.16	ug/mL	86.16%
67) Terphenyl-d14	27.26	244	97283	110.24	ug/mL	110.24%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.10	74	22456	41.61	ug/ml	100
6) Phenol	8.12	94	70099	59.38	ug/mL	100
7) bis(2-Chloroethyl)ether	12.03	93	82048	56.86	ug/mL	100
8) 2-Chlorophenol	8.06	128	46342	57.17	ug/mL#	83
9) 1,3-Dichlorobenzene	8.39	146	37275	44.83	ug/mL	99
10) 1,4-Dichlorobenzene	8.66	146	39314	46.72	ug/mL	97
11) 1,2-Dichlorobenzene	9.04	146	38547	47.04	ug/mL#	96
12) 2-Methylphenol	9.29	108	5196	6.68	ug/mL	53
13) bis(2-chloroisopropyl)ethe	9.72	45	104911	77.20	ug/mL	98
15) N-Nitroso-Di-n-propylamine	10.12	70	47254	50.85	ug/mL	98
16) Hexachloroethane	9.99	117	23206	43.95	ug/mL#	67
19) Nitrobenzene	10.35	77	62972	49.80	ug/mL#	86
20) Isophorone	11.18	82	128772	48.00	ug/mL#	93
21) 2-Nitrophenol	11.30	139	31651	54.31	ug/mL#	92
22) 2,4-Dimethylphenol	14.60	107	70299	74.63	ug/mLm	100
23) bis(2-Chloroethoxy)methane	12.03	93	82048	55.86	ug/mL#	100
24) 2,4-Dichlorophenol	12.18	162	51706	71.87	ug/mL#	90
25) 1,2,4-Trichlorobenzene	12.22	180	36372	49.07	ug/mL	95
26) Naphthalene	12.40	128	126554	51.78	ug/mL	98
27) 4-Chloroaniline	12.40	127	15664	13.67	ug/mL#	13
28) Hexachlorobutadiene	12.90	225	20087	51.69	ug/mL	98
29) 4-Chloro-3-methylphenol	14.60	107	70394	74.44	ug/mL	90
30) 2-Chloronaphthalene	15.97	162	96889	62.71	ug/mlm	100
31) 2-Methylnaphthalene	14.60	142	50713	23.94	ug/mL#	16
34) 2,4,6-Trichlorophenol	15.56	196	38970	65.14	ug/mL	97
35) 2,4,5-Trichlorophenol	15.56	196	38970	79.89	ug/mL	97
37) 2-Nitroaniline	18.53	65	4756	4.33	ug/mL#	38
38) Dimethylphthalate	17.26	163	21170	11.02	ug/mL#	13

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9011.d Vial: 5
Acq On : 27 Oct 95 4:04 pm Operator: SCOTTV
Sample : 46360MS..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 31 15:39 1995

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Acenaphthylene	17.18	152	156148	61.73	ug/mL	97
40)	2,6-Dinitrotoluene	17.35	165	41277	95.56	ug/mL#	79
41)	3-Nitroaniline	19.34	138	1557	3.24	ug/mL#	19
42)	Acenaphthene	17.74	153	105172	73.42	ug/mL	98
43)	2,4-Dinitrophenol	18.11	184	15991	54.29	ug/mL#	85
44)	4-Nitrophenol	18.86	109	16078	50.23	ug/mL#	61
46)	2,4-Dinitrotoluene	18.53	165	52578	82.74	ug/mL#	1
47)	Diethylphthalate	19.46	149	43228	19.78	ug/mL	97
48)	Fluorene	19.34	166	131556	80.24	ug/mL	98
49)	4-Chlorophenyl-phenylether	19.54	204	55916	78.26	ug/mL#	84
51)	4-Nitroaniline	19.34	138	1557	3.62	ug/mL#	19
52)	4,6-Dinitro-2-methylphenol	19.73	198	23619	85.19	ug/mL	100
53)	n-Nitrosodiphenylamine	19.94	169	71016	70.01	ug/mL	96
55)	1,2-Diphenylhydrazine (as	19.54	77	69196	20.74	ug/ml	100
56)	4-Bromophenyl-phenylether	20.99	248	32480	92.88	ug/mL#	88
57)	Hexachlorobenzene	20.95	284	38892	87.66	ug/mL#	39
58)	Pentachlorophenol	21.70	266	23340	76.81	ug/mL	99
59)	Phenanthrene	22.20	178	174965	86.09	ug/mL	99
60)	Anthracene	22.36	178	148000	74.15	ug/mLm	99
62)	Di-n-butylphthalate	24.54	149	201030	53.46	ug/mL	99
63)	Fluoranthene	25.81	202	152814	74.83	ug/mL#	53
65)	Benzidine	22.13	184	11493	47.31	ug/ml	100
66)	Pyrene	26.43	202	145327	102.25	ug/mL#	70
68)	Butylbenzylphthalate	29.04	149	68443	61.89	ug/mL#	15
69)	Benzo[a]anthracene	30.17	228	106111	83.59	ug/mL	99
70)	3,3'-Dichlorobenzidine	30.32	252	3672	10.71	ug/mL#	93
71)	Chrysene	30.26	228	65164	85.64	ug/mLm	99
72)	bis(2-Ethylhexyl)phthalate	31.04	149	141688	89.39	ug/mL#	37
74)	Di-n-octylphthalate	32.95	149	174136	74.01	ug/mL#	100
75)	Benzo[b]fluoranthene	33.20	252	56999	70.62	ug/mL#	89
76)	Benzo[k]fluoranthene	33.28	252	34292	71.37	ug/mLm	89
77)	Benzo[a]pyrene	34.01	252	36949	82.66	ug/mLm	89
78)	Indeno[1,2,3-cd]pyrene	36.69	276	18775	80.91	ug/mL#	25
79)	Dibenz[a,h]anthracene	36.81	278	15952	70.33	ug/mL#	75
80)	Benzo[g,h,i]perylene	37.21	276	15258	72.43	ug/mLm	60

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

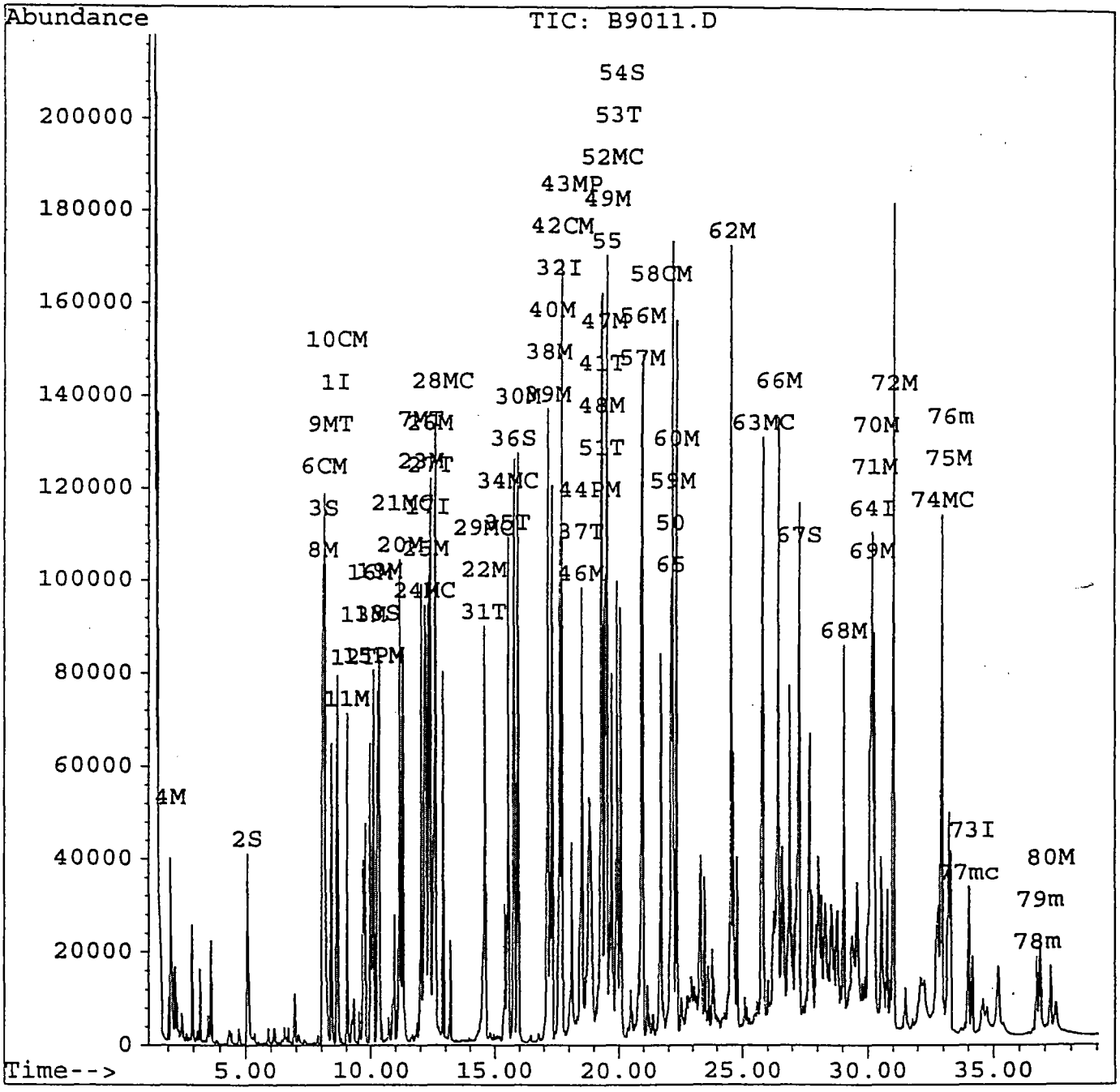
Quantitation Report

Data File : c:\hpchem\1\data2\b9011.d
Acq On : 27 Oct 95 4:04 pm
Sample : 46360MS.....
Misc :
Quant Time: Oct 31 15:39 1995

Converted from RTE d

Vial: 5
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9012.d
Acq On : 27 Oct 95 4:56 pm
Sample : 46360MSD.....
Misc :
Quant Time: Oct 31 15:38 1995

Vial: 6
Operator: SCOTTV
Converted from RTE d Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.60	152	25002	40.00	ug/mL	-0.09
17) Naphthalene-d8	12.34	136	97241	40.00	ug/mL	-0.09
32) Acenaphthene-d10	17.64	164	55587	40.00	ug/mL	-0.09
50) Phenanthrene-d10	22.13	188	77102	40.00	ug/ml	-0.10
64) Chrysene-d12	30.19	240	28509	40.00	ug/mL	-0.10
73) Perylene-d12	34.15	264	10719	40.00	ug/mL	-0.09
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	5.07	112	41071	51.53	ug/mL	51.53%
3) Phenol-d5	8.10	99	86409	66.82	ug/mL	66.82%
18) Nitrobenzene-d5	10.29	82	67083	50.90	ug/mL	50.90%
36) 2-Fluorobiphenyl	15.81	172	95217	56.16	ug/mL	56.16%
54) 2,4,6-Tribromophenol	20.10	330	21999	90.11	ug/mL	90.11%
67) Terphenyl-d14	27.29	244	85795	121.15	ug/mL	121.15%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	2.10	74	27505	49.59	ug/ml	100
6) Phenol	8.13	94	71763	59.15	ug/mL	100
7) bis(2-Chloroethyl)ether	12.03	93	75257	50.75	ug/mL	97
8) 2-Chlorophenol	8.06	128	44078	52.91	ug/mL#	84
9) 1,3-Dichlorobenzene	8.39	146	37044	43.35	ug/mL	96
10) 1,4-Dichlorobenzene	8.66	146	38620	44.66	ug/mL	97
11) 1,2-Dichlorobenzene	9.04	146	37641	44.70	ug/mL	97
12) 2-Methylphenol	9.29	108	5280	6.60	ug/mL	56
13) bis(2-chloroisopropyl)ethe	9.72	45	100159	71.72	ug/mL	100
15) N-Nitroso-Di-n-propylamine	10.12	70	44456	46.55	ug/mL#	97
16) Hexachloroethane	9.99	117	22213	40.93	ug/mL#	69
19) Nitrobenzene	10.35	77	59971	47.52	ug/mL	88
20) Isophorone	11.18	82	119927	44.79	ug/mL#	92
21) 2-Nitrophenol	11.30	139	29087	50.01	ug/mL#	93
22) 2,4-Dimethylphenol	14.61	107	78542	83.54	ug/mLm	100
23) bis(2-Chloroethoxy)methane	12.03	93	75257	51.34	ug/mL#	100
24) 2,4-Dichlorophenol	12.18	162	55427	77.20	ug/mL#	92
25) 1,2,4-Trichlorobenzene	12.22	180	33976	45.93	ug/mL	94
26) Naphthalene	12.40	128	117900	48.34	ug/mL	99
27) 4-Chloroaniline	12.40	127	14859	12.99	ug/mL#	9
28) Hexachlorobutadiene	12.90	225	18787	48.44	ug/mL	98
29) 4-Chloro-3-methylphenol	14.61	107	78226	82.88	ug/mL	88
30) 2-Chloronaphthalene	15.96	162	94046	60.99	ug/mlm	100
31) 2-Methylnaphthalene	14.61	142	56412	26.68	ug/mL#	16
34) 2,4,6-Trichlorophenol	15.58	196	43455	73.41	ug/mL	96
35) 2,4,5-Trichlorophenol	15.58	196	43455	90.04	ug/mL	96
37) 2-Nitroaniline	18.53	65	5027	4.62	ug/mL#	36
38) Dimethylphthalate	17.26	163	21488	11.30	ug/mL#	14

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9012.d
Acq On : 27 Oct 95 4:56 pm
Sample : 46360MSD.....
Misc :
Quant Time: Oct 31 15:38 1995

Vial: 6
Operator: SCOTTV
Converted from RTE d Inst : ABNA
BT Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Acenaphthylene	17.18	152	157682	63.01	ug/mL	98
40)	2,6-Dinitrotoluene	17.35	165	42117	98.54	ug/mL#	93
41)	3-Nitroaniline	19.34	138	1555	3.27	ug/mL#	19
42)	Acenaphthene	17.74	153	104941	74.04	ug/mL	98
43)	2,4-Dinitrophenol	18.13	184	17570	60.29	ug/mL#	82
44)	4-Nitrophenol	18.96	109	16471	52.01	ug/mL#	60
46)	2,4-Dinitrotoluene	18.53	165	52140	82.92	ug/mL#	1
47)	Diethylphthalate	19.48	149	43087	19.93	ug/mL#	93
48)	Fluorene	19.34	166	134877	83.15	ug/mL	99
49)	4-Chlorophenyl-phenylether	19.54	204	56911	80.50	ug/mL#	86
51)	4-Nitroaniline	19.34	138	1555	3.50	ug/mL#	19
52)	4,6-Dinitro-2-methylphenol	19.73	198	24840	86.90	ug/mL	100
53)	n-Nitrosodiphenylamine	19.96	169	73730	70.51	ug/mL	94
55)	1,2-Diphenylhydrazine (as	19.54	77	71856	20.89	ug/ml	100
56)	4-Bromophenyl-phenylether	20.99	248	32240	89.43	ug/mL#	90
57)	Hexachlorobenzene	20.95	284	40163	87.81	ug/mL#	46
58)	Pentachlorophenol	21.72	266	25232	80.54	ug/mL	99
59)	Phenanthrene	22.20	178	196854	93.95	ug/mL	99
60)	Anthracene	22.36	178	162894	79.16	ug/mLm	99
62)	Di-n-butylphthalate	24.56	149	227050	58.57	ug/mLm	98
63)	Fluoranthene	25.82	202	157448	74.79	ug/mL#	68
65)	Benzidine	22.13	184	12053	61.83	ug/ml	100
66)	Pyrene	26.44	202	114720	100.58	ug/mLm	73
68)	Butylbenzylphthalate	29.07	149	57991	65.35	ug/mLm	1
69)	Benzo[a]anthracene	30.17	228	89943	88.30	ug/mL	98
70)	3,3'-Dichlorobenzidine	30.33	252	3072	11.16	ug/mL#	89
71)	Chrysene	30.27	228	56444	92.44	ug/mLm	98
72)	bis(2-Ethylhexyl)phthalate	31.04	149	127927	100.58	ug/mL#	36
74)	Di-n-octylphthalate	32.93	149	132028	86.56	ug/mL#	100
75)	Benzo[b]fluoranthene	33.20	252	46610	89.08	ug/mL#	86
76)	Benzo[k]fluoranthene	33.28	252	23877	76.66	ug/mLm	86
77)	Benzo[a]pyrene	34.02	252	25611	88.39	ug/mLm	86
78)	Indeno[1,2,3-cd]pyrene	36.70	276	14190	94.34	ug/mL#	28
79)	Dibenz[a,h]anthracene	36.81	278	12632	85.92	ug/mL#	72
80)	Benzo[g,h,i]perylene	37.22	276	11729	85.89	ug/mLm	61

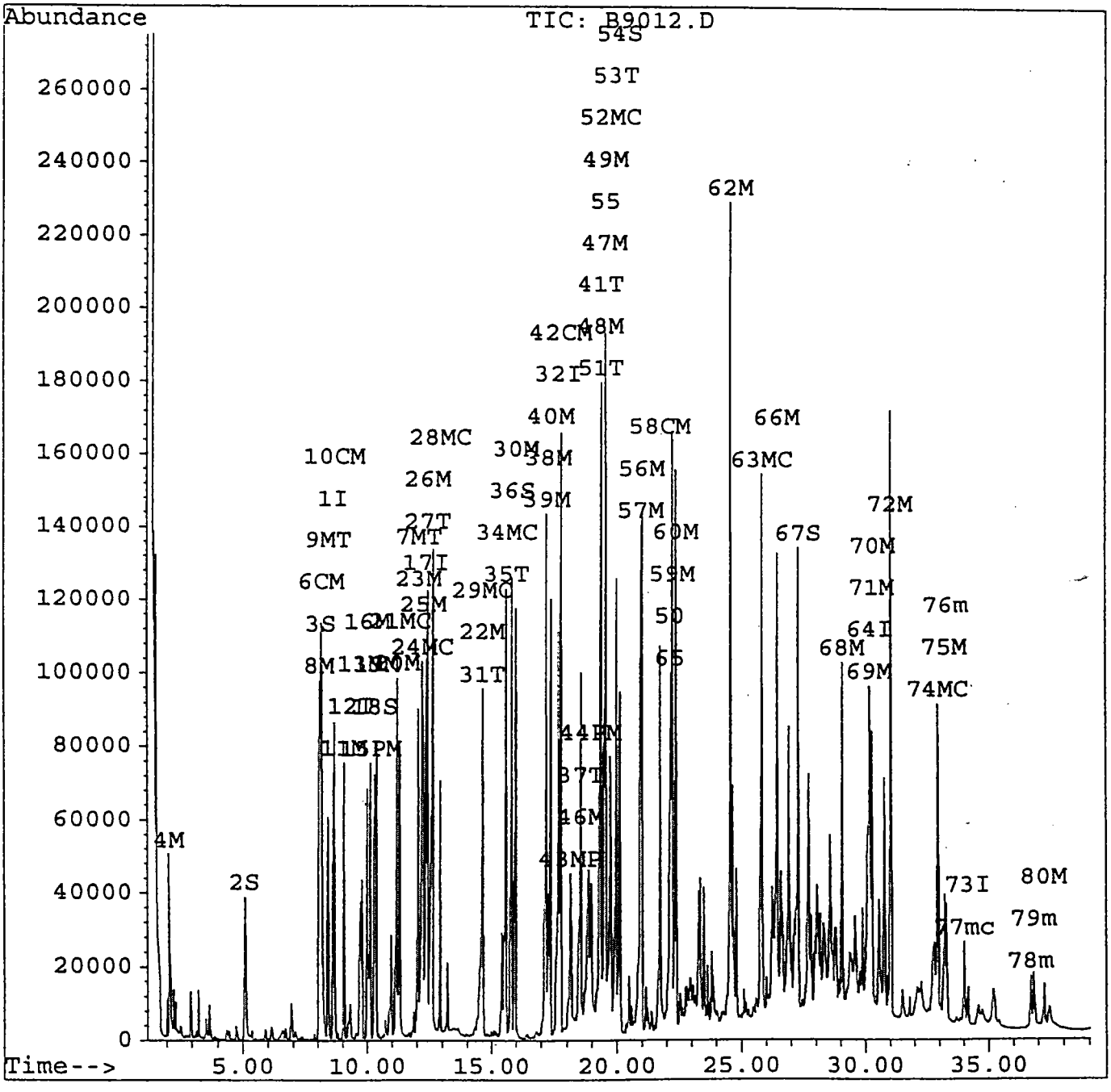
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9012.d
Acq On : 27 Oct 95 4:56 pm
Sample : 46360MSD.....
Misc :
Quant Time: Oct 31 15:38 1995

Vial: 6
Operator: SCOTTV
Inst : ABNA
BT Multiplr: 1.00
Converted from RTE d

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration



PESTICIDE/PCB DATA PACKAGE

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: EMSL Contract: _____

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

Instrument ID: EPC Level(x low): low 5ug/L mid 20ug/L high 80ug/L

GC Column: DB-5 ID: .0.32 (mm) Date(s) Analyzed: 1-22-96 1-23-96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	5.144	5.144	5.144	5.14	5.07	5.21
beta-BHC	5.912	5.912	5.912	5.91	5.84	5.98
delta-BHC	6.763	6.747	6.747	6.75	6.68	6.82
gamma-BHC (Lindane)	6.012	6.012	6.012	6.01	5.94	6.08
Heptachlor	8.099	8.099	8.099	8.10	8.03	8.17
Aldrin	9.152	9.152	9.152	9.15	9.08	9.22
Heptachlor epoxide	10.471	10.471	10.471	10.47	10.40	10.54
Endosulfan I	11.623	11.623	11.606	11.62	11.55	11.68
Dieldrin	12.492	12.492	12.492	12.49	12.42	12.56
4,4'-DDE	12.659	12.659	12.659	12.66	12.59	12.73
Endrin	13.160	13.160	13.196	13.17	13.10	13.24
Endosulfan II	13.510	13.510	13.516	13.51	13.44	13.58
4,4'-DDD	14.061	14.061	14.045	14.06	13.99	14.13
Endosulfan sulfate	14.980	14.980	14.980	14.98	14.91	15.05
4,4'-DDT	15.297	15.280	15.280	15.29	15.22	15.36
Methoxychlor	17.368	17.368	17.357	17.36	17.29	17.43
Endrin ketone	16.433	16.433	16.433	16.43	16.36	16.50
Endrin aldehyde	14.178	14.162	14.162	14.17	14.10	14.24
alpha-Chlordane	11.773	11.757	11.757	11.76	11.69	11.83
gamma-Chlordane	11.256	11.256	11.256	11.26	11.19	11.33
Tetrachloro-m-xylene	4.192	4.192	4.192	4.19	4.12	4.26
Decachlorobiphenyl	22.846	22.846	22.846	22.85	22.78	22.92

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ± 0.07 minutes for all other compounds, except ± 0.10 minutes for Decachlorobiphenyl.

* A 5pt curve was analyzed + is attached.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMSL Contract: _____

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

GC Column: DB-5 ID: .32 (mm) Init. Calib. Date(s): 1-22-96 1/23/96

EPA Sample No.(PIBLK): _____ Date Analyzed: _____

LAB Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No.(INDA): _____ Date Analyzed: _____

LAB Sample ID (INDA): _____ Time Analyzed: _____

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
alpha-BHC	5.14	5.09	5.19	38068			
gamma-BHC (Lindane)	6.01	5.96	6.06	40360			
Heptachlor	8.10	8.05	8.15	48073			
Endosulfan I	11.62	11.55	12.95	46992			
Dieldrin	12.49	12.42	12.63	85031			
Endrin	13.16	13.09	13.23	72614			
4,4'-DDD	14.06	13.99	14.13	53909			
4,4'-DDT	15.30	15.23	15.37	47996			
Methoxychlor	17.37	17.30	17.44	161494			
Tetrachloro-m-xylene	4.19	4.12	4.26	47172			
Decachlorobiphenyl	22.85	22.75	22.95	145017			

EPA Sample no. (INDB): _____ Date Analyzed: _____

LAB Sample ID: (INDB): _____ Time Analyzed: _____

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
beta-BHC	5.91	5.86	5.96	27226			
delta-BHC	6.76	6.71	6.81	29743			
Aldrin	9.15	9.10	9.20	45819			
Heptachlor epoxide	10.47	10.40	11.80	50680			
4,4'-DDE	12.66	12.59	12.73	68844			
Endosulfan II	13.51	13.44	13.58	93516			
Endosulfan sulfate	14.98	14.91	15.05	88596			
Endrin ketone	16.43	16.36	16.50	91882			
Endrin aldehyde	14.18	14.11	14.25	79273			
alpha-Chlordane	11.77	11.70	11.84	52757			
gamma-Chlorodane	11.26	11.19	11.33	54303			
Tetrachloro-m-xylene	4.19	4.12	4.26	49095			
Decachlorobiphenyl	22.86	22.76	22.96	150638			

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 09:32:45 Version 5.1.5 **********

* Sample Name: INDA 5-50 UG/L Data File: D:JR22D2 *
* Date: 01-22-1996 20:42:29 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 2 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

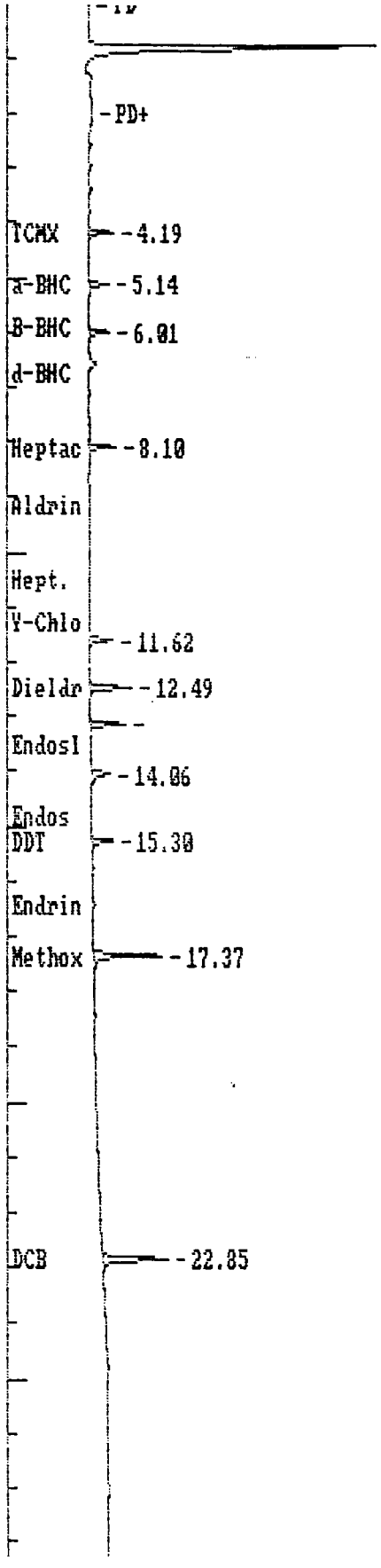
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	4.9937	6.3950%	12527	2850	4.4	1	0	0	3.9865E-04
2	5.144	a-BHC	3.4119	4.3693%	9395	2285	4.1	1	0	0	3.6317E-04
3	6.012	Y-BHC	3.3657	4.3102%	9810	2386	4.1	1	0	0	3.4310E-04
4	8.099	Heptachlor	3.9657	5.0786%	12960	3182	4.1	1	0	0	3.0600E-04
5	11.623	Endosulfan I	4.2568	5.4513%	12490	2774	4.5	1	0	0	3.4080E-04
6	12.492	Dieldrin	6.8624	8.7881%	21669	4986	4.3	1	0	0	3.1669E-04
7	13.160	Endrin	6.2005	7.9405%	18536	4264	4.3	1	0	0	3.3450E-04
8	14.061	4'4-DDD	6.2812	8.0438%	11344	2172	5.2	1	0	0	5.5372E-04
9	15.297	DDT	5.2719	6.7513%	12009	2422	5.0	1	0	-.0183	4.3899E-04
10	17.368	Methoxychlor	24.6959	31.6260%	40234	8114	5.0	1	0	0	6.1380E-04
11	22.846	DCB	8.7815	11.2458%	39025	7729	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 78.0872

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D2.PTS Printed on 02-16-1996 at 09:32:50
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 09:33:05 Version 5.1.5 **********

* Sample Name: INDB 5-10 UG/L Data File: D:JR22D3 *

* Date: 01-22-1996 21:16:35 Method: M:APES-H 01-24-1996 09:29:21 # 377 *

* Interface: 1 Cycle#: 3 Operator JJK Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 1000 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

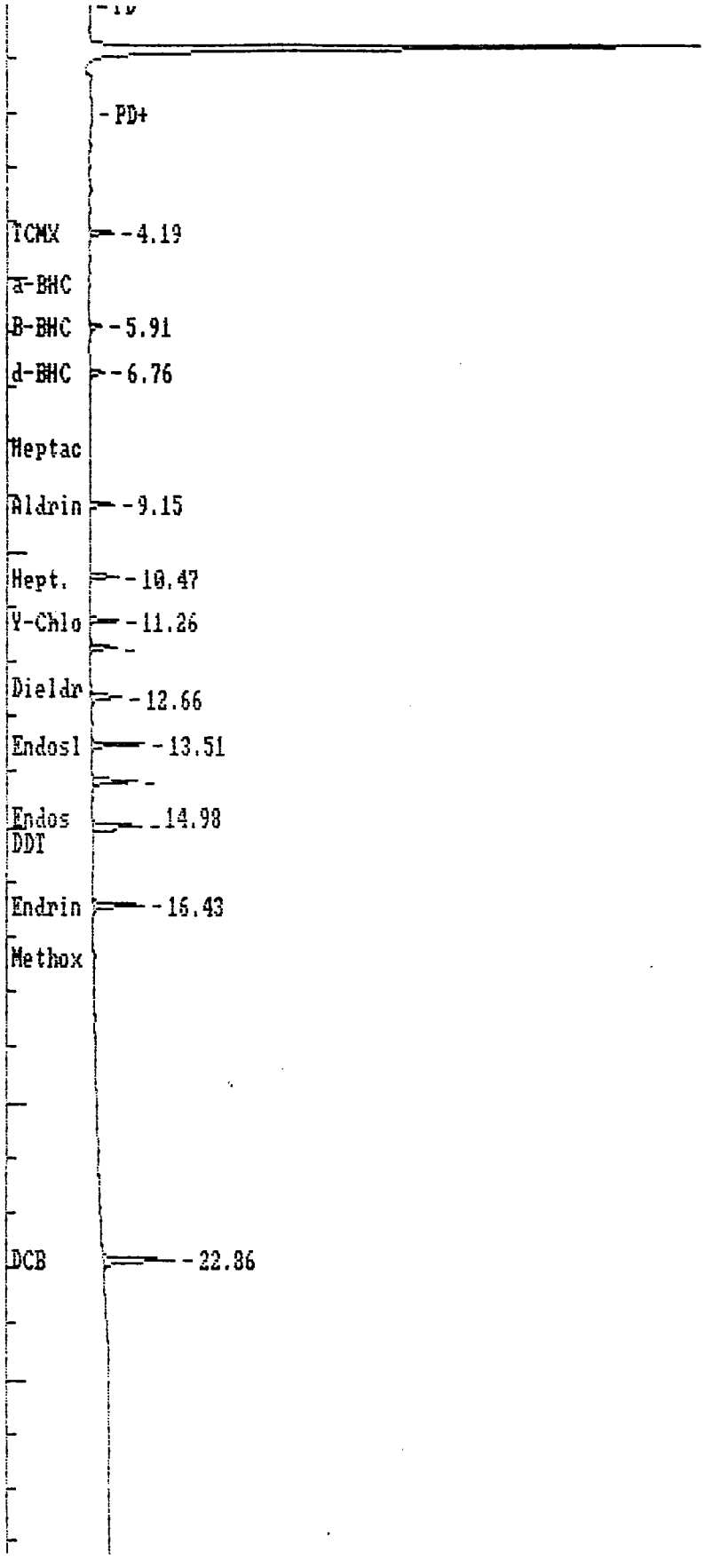
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	5.0251	5.4261%	12605	2829	4.5	1	0	0	3.9865E-04
2	5.912	B-BHC	4.6889	5.0631%	7272	1493	4.9	1	0	0	6.4478E-04
3	6.763	d-BHC	4.3028	4.6463%	8509	1683	5.1	1	0	0	5.0568E-04
4	9.152	Aldrin	4.5781	4.9435%	12488	2962	4.2	1	0	0	3.6660E-04
5	10.471	Hept. epox.	5.1118	5.5198%	14235	3357	4.2	1	0	0	3.5909E-04
6	11.256	Y-Chlordane	4.7994	5.1825%	14717	3405	4.3	1	0	0	3.2611E-04
7	11.773	a-Chlordane	4.5664	4.9309%	14112	3200	4.4	1	0	0	3.2358E-04
8	12.659	4,4-DDE	6.2240	6.7208%	17709	3697	4.8	1	0	-.0110	3.5145E-04
9	13.510	Endoslf II	10.6810	11.5335%	29129	6398	4.6	1	0	0	3.6668E-04
10	14.173	Endrin ald	11.2154	12.1105%	25460	5342	4.8	1	0	0	4.4051E-04
11	14.980	Endos sulf	12.4926	13.4897%	28975	5917	4.9	1	0	0	4.3115E-04
12	16.433	Endrin ket.	9.2237	9.9599%	28705	6134	4.7	1	0	0	3.2132E-04
13	22.862	DCB	9.6995	10.4736%	43104	8574	5.0	1	0	0	2.2502E-04

TOTAL AMOUNT = 92.6086

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D3.PTS Printed on 02-16-1996 at 09:33:09
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 09:33:48 Version 5.1.5 **********

* Sample Name: INDA 10-100 UG/L Data File: D:JR22D4 *
* Date: 01-22-1996 21:50:38 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 4 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

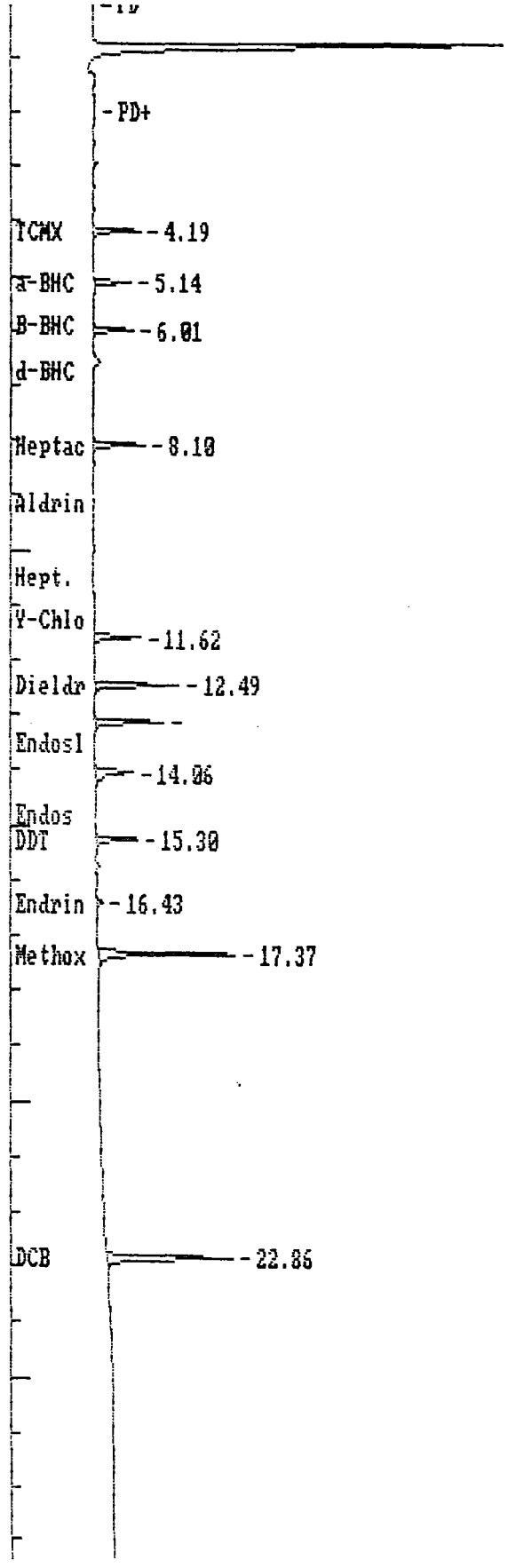
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	9.7170	6.2270%	24375	5567	4.4	1	0	0	3.9865E-04
2	5.144	a-BHC	6.6291	4.2482%	18253	4469	4.1	1	0	0	3.6317E-04
3	6.012	Y-BHC	6.6283	4.2477%	19319	4693	4.1	1	0	0	3.4310E-04
4	8.099	Heptachlor	7.5594	4.8444%	24704	6096	4.1	1	0	0	3.0600E-04
5	11.623	Endosulfan I	8.1779	5.2407%	23996	5518	4.3	1	0	0	3.4080E-04
6	12.492	Dieldrin	13.2767	8.5083%	41924	9976	4.2	1	0	0	3.1669E-04
7	13.160	Endrin	11.9988	7.6893%	35871	8280	4.3	1	0	0	3.3450E-04
8	14.061	4'4-DDD	14.6685	9.4002%	26491	4487	5.9	1	0	0	5.5372E-04
9	15.297	DDT	10.3880	6.6571%	23663	4850	4.9	1	0	-.0183	4.3899E-04
10	16.433	Endrin ket.	1.0921	0.6999%	3399	692	4.9	1	0	0	3.2132E-04
11	17.368	Methoxychlor	49.0940	31.4615%	79984	16231	4.9	1	0	0	6.1380E-04
12	22.862	DCB	16.8152	10.7759%	74726	14878	5.0	1	0	0	2.2502E-04

TOTAL AMOUNT = 156.0450

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D4.PTS Printed on 02-16-1996 at 09:33:57
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 09:35:01 Version 5.1.5 **********

* Sample Name: IND8 10-20 UG/L Data File: D:JR22D5 *

* Date: 01-22-1996 22:24:45 Method: M:APES-H 01-24-1996 09:29:21 # 377 *

* Interface: 1 Cycle#: 5 Operator JJK Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 1000 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

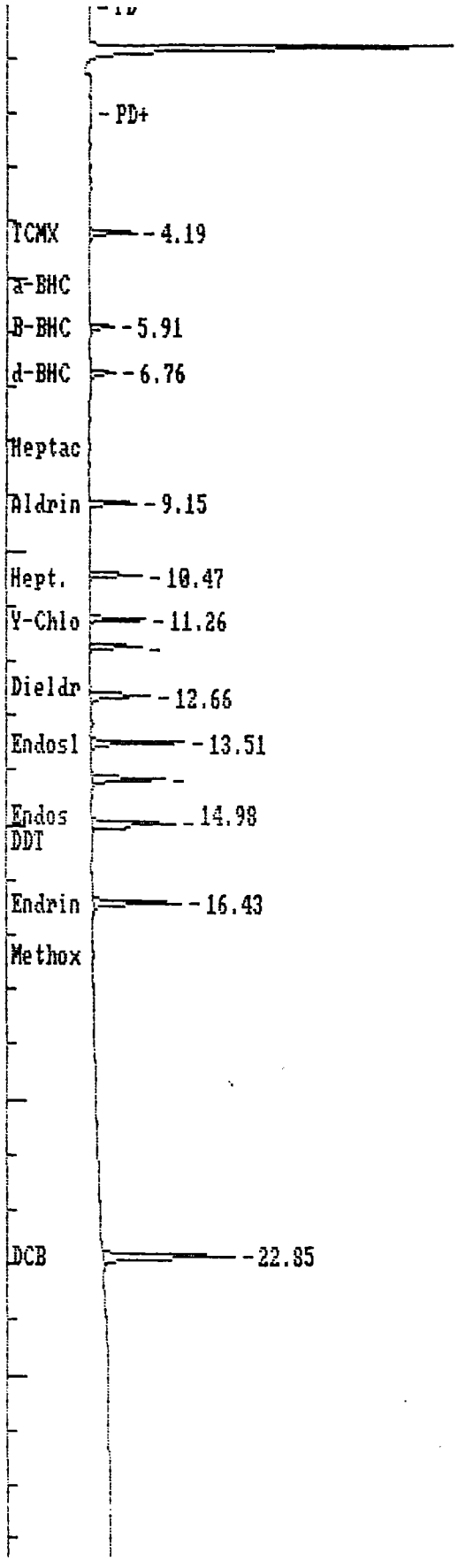
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	9.7613	5.9515%	24496	5563	4.4	1	0	0	3.9865E-04
2	5.912	B-BHC	8.9410	5.4513%	13867	2812	4.9	1	0	0	6.4478E-04
3	6.763	d-BHC	7.5634	4.6114%	14957	2990	5.0	1	0	0	5.0568E-04
4	9.152	Aldrin	8.4876	5.1749%	23152	5616	4.1	1	0	0	3.6660E-04
5	10.471	Hept. epox.	9.3323	5.6899%	25989	6274	4.1	1	0	0	3.5909E-04
6	11.256	Y-Chlordane	8.9256	5.4419%	27370	6523	4.2	1	0	0	3.2611E-04
7	11.773	a-Chlordane	8.5969	5.2415%	26563	6145	4.3	1	0	0	3.2358E-04
8	12.659	4,4-ODE	11.8740	7.2396%	33785	7132	4.7	1	0	-.0110	3.5145E-04
9	13.510	Endoslf II	18.0131	10.9826%	49125	11069	4.4	1	0	0	3.6668E-04
10	14.178	Endrin ald	18.6595	11.3767%	42359	8757	4.8	1	0	0	4.4051E-04
11	14.980	Endos sulf	20.6698	12.6024%	47941	9913	4.8	1	0	0	4.3115E-04
12	16.433	Endrin ket.	15.5587	9.4862%	48421	10534	4.6	1	0	0	3.2132E-04
13	22.846	DCB	17.6319	10.7502%	78355	15702	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 164.0150

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D5.PTS Printed on 02-16-1996 at 09:35:11
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 09:36:16 Version 5.1.5 **********

* Sample Name: INDA 20-200 UG/L Data File: D:JR22D6 *
* Date: 01-22-1996 22:58:49 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 6 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

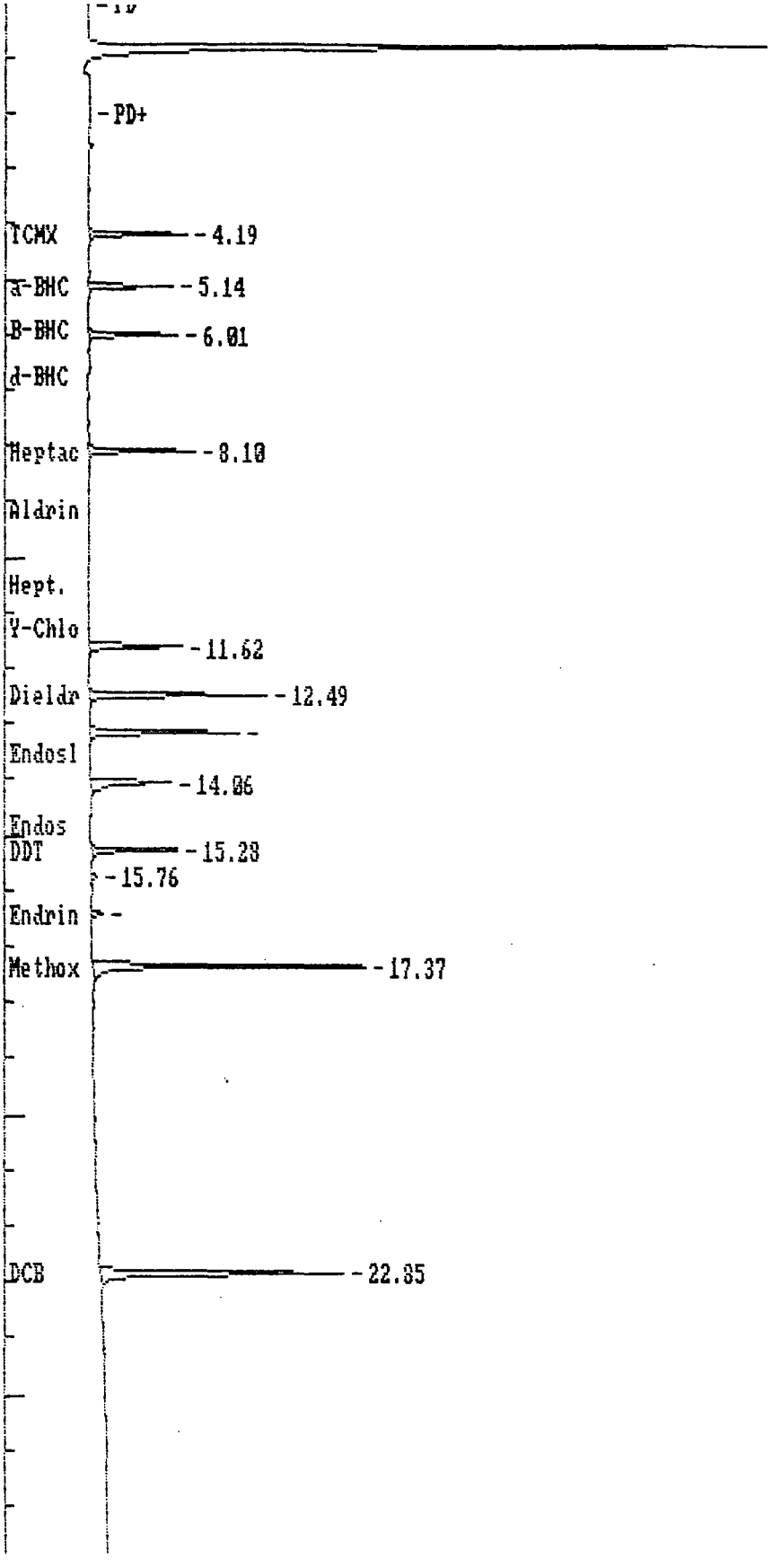
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	18.8050	6.0029%	47172	11472	4.1	1	0	0	3.9865E-04
2	5.144	a-BHC	13.8253	4.4132%	38068	9894	3.8	1	0	0	3.6317E-04
3	6.012	Y-BHC	13.8475	4.4203%	40360	10460	3.9	1	0	0	3.4310E-04
4	8.099	Heptachlor	14.7103	4.6957%	48073	12381	3.9	1	0	0	3.0600E-04
5	11.623	Endosulfan I	16.0150	5.1122%	46992	10901	4.3	1	0	0	3.4080E-04
6	12.492	Dieldrin	26.9284	8.5959%	85031	20904	4.1	1	0	0	3.1663E-04
7	13.160	Endrin	24.2895	7.7535%	72614	17552	4.1	1	0	0	3.3450E-04
8	14.061	4'4-DDD	29.8503	9.5286%	53909	9589	5.6	1	0	0	5.5372E-04
9	15.280	DDT	21.0699	6.7258%	47996	10199	4.7	1	0	-.1274	4.3899E-04
10	15.765		0.0000	0.0000%	3651	770	4.7	1			1.0000E-09
11	16.433	Endrin ket.	2.1694	0.6925%	6751	1371	4.9	1	0	0	3.2132E-04
12	17.368	Methoxychlor	99.1281	31.6429%	161499	32198	5.0	1	0	0	6.1380E-04
13	22.846	DCB	32.6324	10.4167%	145017	28885	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 313.2712

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D6.PTS Printed on 02-16-1996 at 09:36:24
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 13:15:38 Version 5.1.5 **********

* Sample Name: INDB 20-40 UG/L Data File: D:JR22D7 *
* Date: 01-22-1996 23:32:56 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 7 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

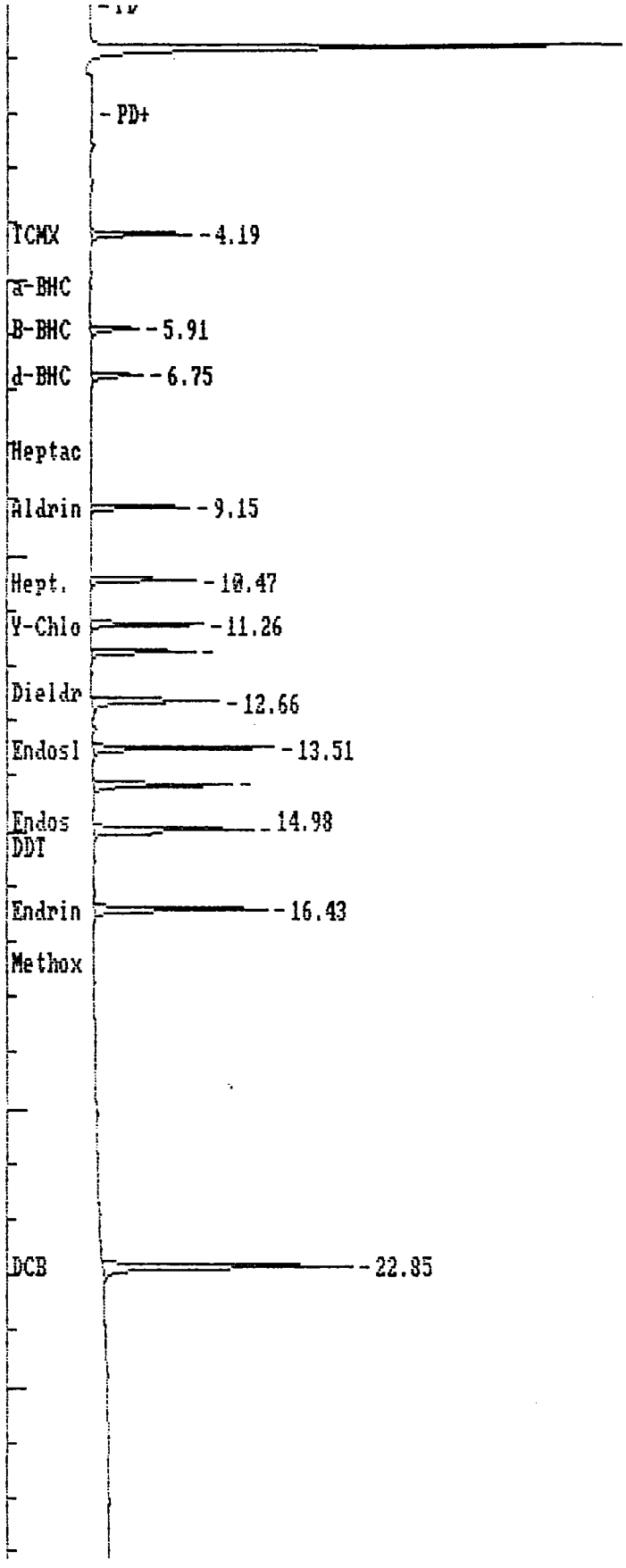
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192	TCMX	19.5718	6.1746%	49095	11920	4.1	1	0	0	3.9865E-04
2	5.912	B-BHC	17.5550	5.5384%	27226	5765	4.7	1	0	0	6.4478E-04
3	6.747	d-BHC	15.0406	4.7451%	29743	6218	4.8	1	0	-.1952	5.0568E-04
4	9.152	Aldrin	16.7974	5.2994%	45819	11744	3.9	1	0	0	3.6660E-04
5	10.471	Hept. epox.	18.1987	5.7415%	50680	12595	4.0	1	0	0	3.5909E-04
6	11.256	Y-Chlordane	17.7087	5.5869%	54303	13329	4.1	1	0	0	3.2611E-04
7	11.757	a-Chlordane	17.0712	5.3857%	52757	12406	4.3	1	0	-.1121	3.2358E-04
8	12.659	4,4-DDE	24.1956	7.6334%	68844	15192	4.5	1	0	-.0110	3.5145E-04
9	13.510	Endoslf II	34.2904	10.8182%	93516	21665	4.3	1	0	0	3.6668E-04
10	14.162	Endrin ald	34.9209	11.0171%	79273	16630	4.8	1	0	-.1156	4.4051E-04
11	14.980	Endos sulf	38.1984	12.0511%	88596	19031	4.7	1	0	0	4.3115E-04
12	16.433	Endrin ket.	29.5240	9.3145%	91882	20718	4.4	1	0	0	3.2132E-04
13	22.846	DCB	33.8971	10.6941%	150638	29837	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 316.9698

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D7.PTS Printed on 02-16-1996 at 13:15:42
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 13:15:57 Version 5.1.5 **********

* Sample Name: INDA 40-400 UG/L Data File: D:JR22D8 *
* Date: 01-23-1996 00:06:58 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 8 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

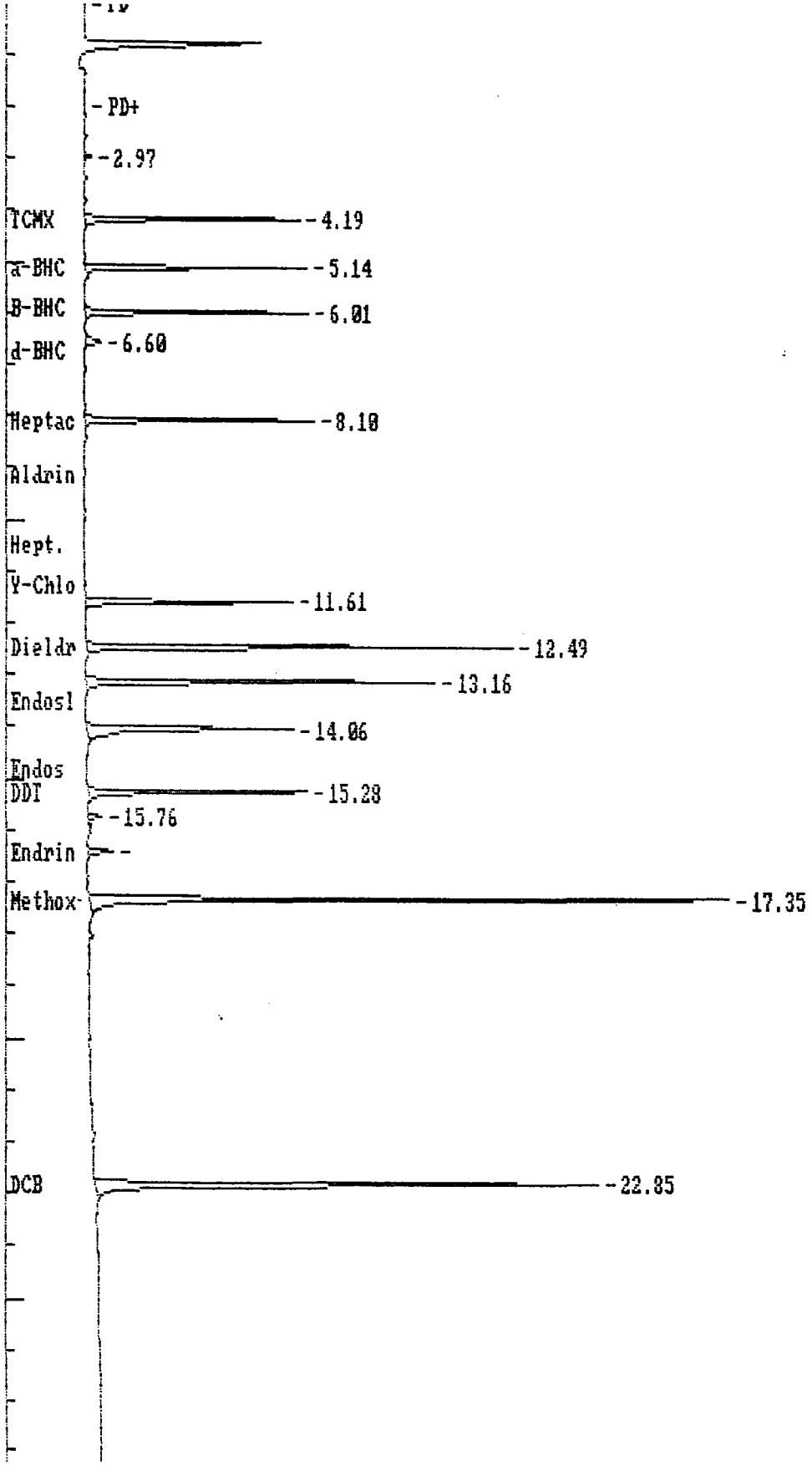
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.0000%	3986	856	4.7	1			1.0000E-09
2	4.192	TCMX	43.4380	5.9019%	108962	27022	4.0	1	0	0	3.9865E-04
3	5.144	a-BHC	34.8782	4.7389%	96039	27862	3.4	1	0	0	3.6317E-04
4	6.012	Y-BHC	34.4403	4.6794%	100378	28053	3.6	1	0	0	3.4310E-04
5	6.596		0.0000	0.0000%	13249	1895	7.0	1			1.0000E-09
6	8.099	Heptachlor	32.6024	4.4297%	106544	28996	3.7	1	0	0	3.0600E-04
7	11.606	Endosulfan I	36.1800	4.9157%	106161	26110	4.1	1	0	-.1161	3.4080E-04
8	12.492	Dieldrin	65.1639	8.8538%	205767	53797	3.8	1	0	0	3.1669E-04
9	13.160	Endrin	57.0782	7.7552%	170637	44122	3.9	1	0	0	3.3459E-04
10	14.061	4'4-DDD	72.3513	9.8303%	130664	26015	5.0	1	0	0	5.5372E-04
11	15.280	DDT	51.9850	7.0632%	118418	27632	4.3	1	0	-.1274	4.3999E-04
12	15.765		0.0000	0.0000%	8130	1767	4.6	1			1.0000E-09
13	16.433	Endrin ket.	5.0531	0.6866%	15726	3246	4.8	1	0	0	3.2132E-04
14	17.351	Methoxychlor	232.3393	31.5677%	378526	80715	4.7	1	0	-.1076	6.1380E-04
15	22.846	DCB	70.4932	9.5778%	313269	63305	4.9	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 736.0028

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D8.PTS Printed on 02-16-1996 at 13:16:02
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 13:17:04 Version 5.1.5 **********

* Sample Name: INDB 40-80 UG/L Data File: D:JR22D9 *
* Date: 01-23-1996 00:41:04 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 9 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

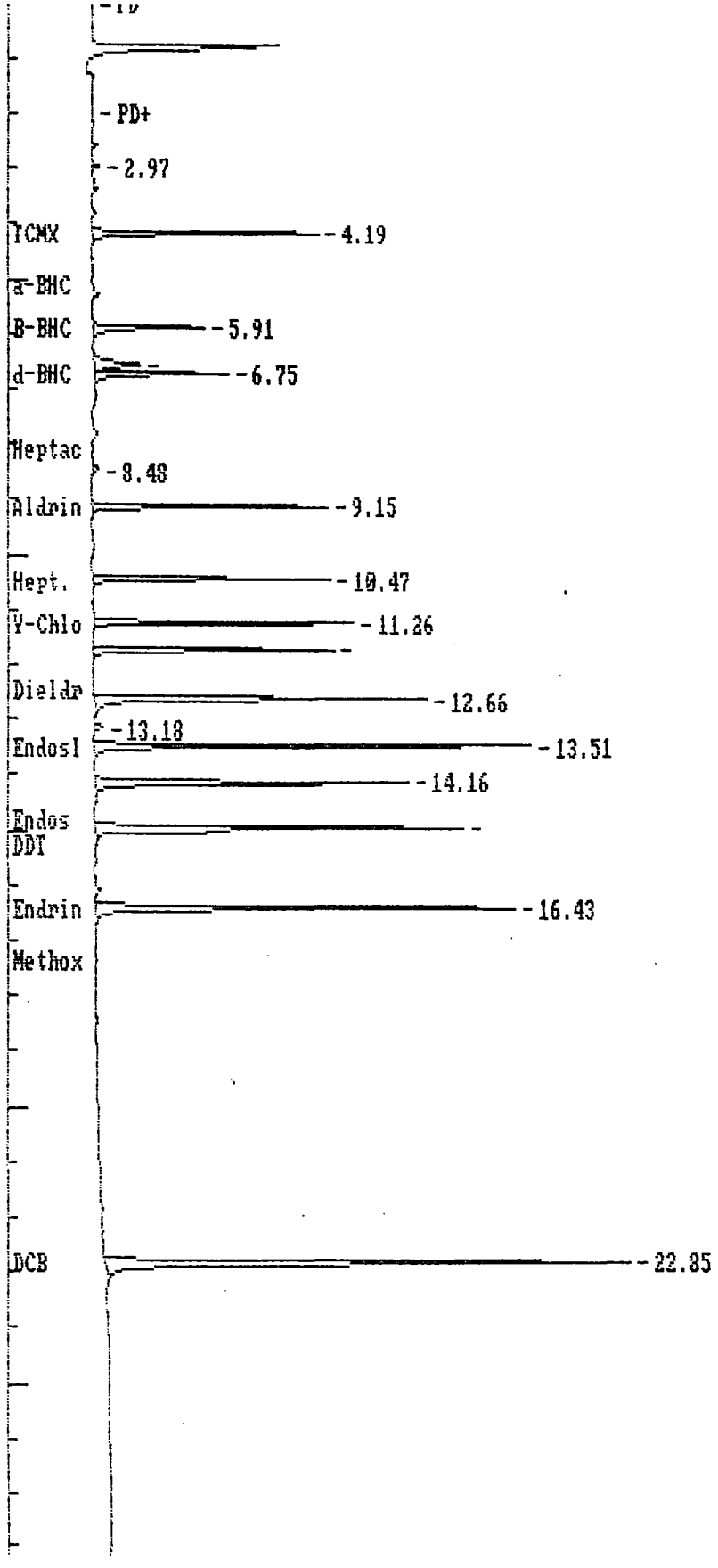
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.0000%	4634	948	4.9	1			1.0000E-09
2	4.192	TCMX	43.1868	6.1398%	108332	26648	4.1	1	0	0	3.9865E-04
3	5.912	B-BHC	39.3024	5.5876%	60955	13109	4.6	1	0	0	6.4478E-04
4	6.596		0.0000	0.0000%	39850	5474	7.3	2			1.0000E-09
5	6.747	d-BHC	34.9257	4.9654%	69067	15857	4.4	2	0	-.1952	5.0568E-04
6	8.484		0.0000	0.0000%	3879	724	5.4	1			1.0000E-09
7	9.152	Aldrin	37.6263	5.3493%	102636	28006	3.7	1	0	0	3.6660E-04
8	10.471	Hept. epox.	38.9679	5.5400%	108519	28131	3.9	1	0	0	3.5909E-04
9	11.256	Y-Chlordane	38.8928	5.5294%	119264	30846	3.9	1	0	0	3.2611E-04
10	11.757	a-Chlordane	37.4615	5.3259%	115772	28573	4.1	1	0	-.1121	3.2358E-04
11	12.659	4,4-DDE	57.9287	8.2357%	164826	39648	4.2	1	0	-.0110	3.5145E-04
12	13.176	Endrin	1.6837	0.2394%	5034	1065	4.7	1	0	.1238	3.3450E-04
13	13.510	Endoslf II	76.5760	10.8867%	208837	51974	4.0	1	0	0	3.6668E-04
14	14.162	Endrin ald	74.7050	10.6207%	169586	37301	4.5	1	0	-.1156	4.4051E-04
15	14.980	Endos sulf	84.2003	11.9707%	195291	43833	4.5	1	0	0	4.3115E-04
16	16.433	Endrin ket.	68.4535	9.7320%	213036	49809	4.3	1	0	0	3.2132E-04
17	22.846	DCB	69.4774	9.8775%	308755	62265	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 703.3879

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Data File = D:JR22D9.PTS Printed on 02-16-1996 at 13:17:24
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 13:18:29 Version 5.1.5 **********

* Sample Name: INDA 80-800 UG/L Data File: D:JR22D10 *
* Date: 01-23-1996 01:15:08 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 10 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	0.0000%	5931	1314	4.5	1			1.0000E-09
2	4.192	TCMX	84.4286	5.8074%	211786	52976	4.0	1	0	0	3.9865E-04
3	5.144	a-BHC	82.5316	5.6769%	227255	68826	3.3	1	0	0	3.6317E-04
4	6.012	Y-BHC	77.2573	5.3141%	225171	64929	3.5	1	0	0	3.4310E-04
5	8.099	Heptachlor	64.6811	4.4490%	211376	58463	3.6	1	0	0	3.0600E-04
6	11.606	Endosulfan I	72.5717	4.9918%	212943	53768	4.0	1	0	-.1161	3.4080E-04
7	12.492	Dieldrin	135.3935	9.3130%	427529	112441	3.8	1	0	0	3.1669E-04
8	13.160	Endrin	113.9660	7.8391%	340704	89981	3.8	1	0	0	3.3450E-04
9	14.045	4'4-DDD	157.0619	10.8034%	283648	57935	4.9	1	0	-.1088	5.5372E-04
10	15.280	DDT	107.7767	7.4134%	245508	61667	4.0	1	0	-.1274	4.3899E-04
11	15.765		0.0000	0.0000%	15105	3346	4.5	1			1.0000E-09
12	16.433	Endrin ket.	10.3163	0.7096%	32106	6749	4.8	1	0	0	3.2132E-04
13	17.351	Methoxychlor	420.7736	28.9426%	685521	149587	4.6	1	0	-.1076	6.1380E-04
14	18.069		0.0000	0.0000%	5238	1097	4.8	1			1.0000E-09
15	21.910		0.0000	0.0000%	3125	631	5.0	1			1.0000E-09
16	22.846	DCB	127.0602	8.7398%	564651	114472	4.9	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 1453.8186

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

***** EXTERNAL STANDARD TABLE *****

********** 02-16-1996 13:20:12 Version 5.1.5 **********

* Sample Name: INDB 80-160 UG/L Data File: D:JR22D11 *
* Date: 01-23-1996 01:49:16 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 11 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	0.0000%	5497	1251	4.4	1			1.0000E-09
2	3.257		0.0000	0.0000%	3889	827	4.7	1			1.0000E-09
3	4.192	TCMX	85.0585	6.0077%	213366	54980	3.9	1	0	0	3.9865E-04
4	5.912	B-BHC	75.6580	5.3437%	117339	27226	4.3	1	0	0	6.4478E-04
5	6.596		0.0000	0.0000%	9157	1445	6.3	2			1.0000E-09
6	6.747	d-BHC	78.9570	5.5767%	156140	41300	3.8	2	0	-.1952	5.0568E-04
7	9.152	Aldrin	81.0983	5.7280%	221218	63130	3.5	1	0	0	3.6660E-04
8	10.471	Hept. epox.	77.9153	5.5032%	216983	57461	3.8	1	0	0	3.5909E-04
9	11.256	Y-Chlordane	78.9110	5.5735%	241979	64213	3.8	1	0	0	3.2611E-04
10	11.757	a-Chlordane	76.5412	5.4061%	236545	61645	3.8	1	0	-.1121	3.2358E-04
11	12.659	4,4-DDE	128.8890	9.1034%	366731	91719	4.0	1	0	-.0110	3.5145E-04
12	13.176	Endrin	2.9686	0.2097%	8875	1899	4.7	1	0	.1238	3.3450E-04
13	13.510	Endoslf II	153.9246	10.8717%	419781	104127	4.0	1	0	0	3.6668E-04
14	14.162	Endrin ald	146.0218	10.3135%	331482	75548	4.4	1	0	-.1156	4.4051E-04
15	14.980	Endos sulf	166.0193	11.7259%	385059	88287	4.4	1	0	0	4.3115E-04
16	16.132		0.0000	0.0000%	8223	1093	7.5	1			1.0000E-09
17	16.433	Endrin ket.	137.2302	9.6926%	427077	99333	4.3	1	0	0	3.2132E-04
18	22.846	DCB	126.6365	8.9443%	562768	112025	5.0	1	0	-.0192	2.2502E-04

TOTAL AMOUNT = 1415.8303

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-5

DATE(S) OF ANALYSIS FROM: 1/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: 12:57 TO: _____
DATE OF ANALYSIS 1/23/96
TIME OF ANALYSIS 10:20
EPA SAMPLE NO. (STANDARD) [redacted]

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	11.26	11.19	11.33	294077	11.26	312776	N	6
a-chlordane	11.76	11.69	11.83	250122	11.77	269350	N	8

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890 SII GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 1/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: 12:57 TO: _____
DATE OF ANALYSIS 1/23/96
TIME OF ANALYSIS 10:20
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	12.14	12.07	12.21	244757	12.16	269841	N	10
a-chlordane	12.41	12.34	12.48	201824	12.41	226175	N	12

9

Lab Name: EMSL Analytical Contract:

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

Instrument ID: HP5890/II GC Column ID: DB-5

DATE(S) OF ANALYSIS FROM: 1/23/96 TO:
TIME(S) OF ANALYSIS FROM: TO:
DATE OF ANALYSIS
TIME OF ANALYSIS
EPA SAMPLE NO. (STANDARD)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
toxaphene	16.33	16.26	16.40	220241				

9

Lab Name: EMSL Analytical Contract:

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

Instrument ID: HP5890 SII GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 1/23/96 TO:
TIME(S) OF ANALYSIS FROM: 3:31 TO:
DATE OF ANALYSIS
TIME OF ANALYSIS
EPA SAMPLE NO. (STANDARD)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
toxaphene	16.77	16.70	16.84	241838				

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMSL Contract: _____

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

GC Column: DB-5 ID: .32 (mm) Init. Calib. Date(s): 1-22-96 1/23/96

EPA Sample No.(PIBLK): _____ Date Analyzed: 1/23/96

LAB Sample ID (PIBLK): Pest Mix A 20ug/L Time Analyzed: 16:56

EPA Sample No.(INDA): _____ Date Analyzed: _____

LAB Sample ID (INDA): Pest Mix Time Analyzed: _____

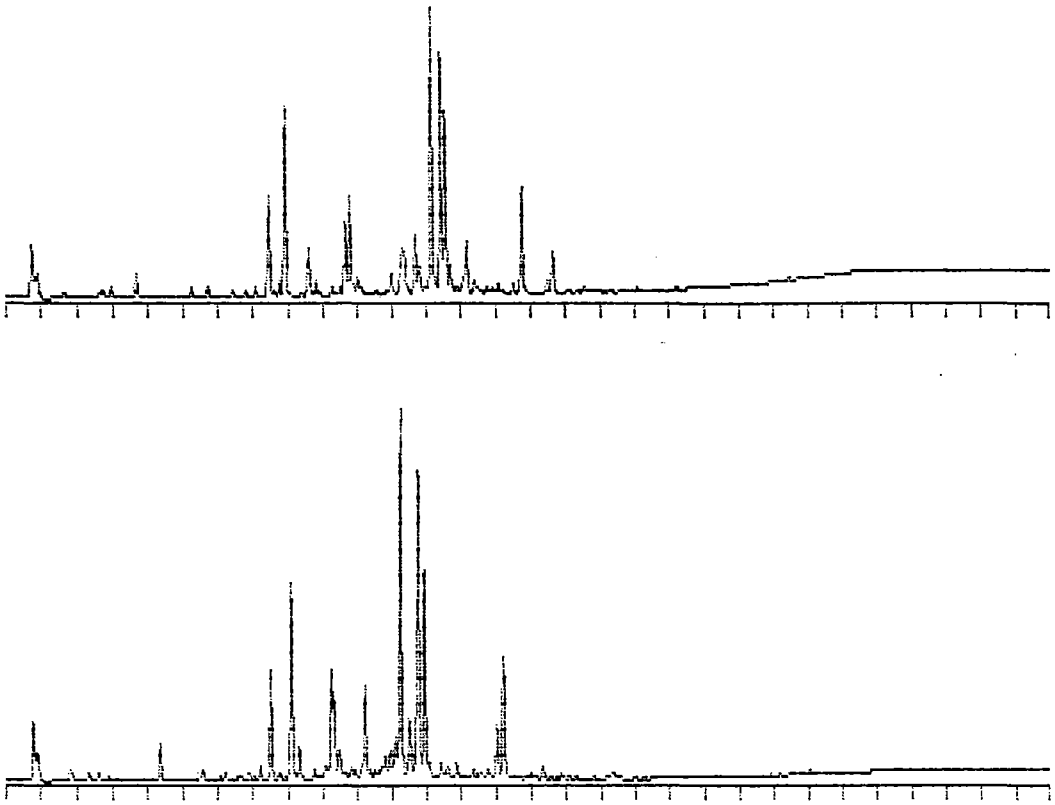
INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
alpha-BHC	5.14	5.09	5.19	38068	40880	5.14	7
gamma-BHC (Lindane)	6.01	5.96	6.06	40360	44451	6.01	10
Heptachlor	8.10	8.05	8.15	48073	47610	8.10	1
Endosulfan I	11.62	11.55	12.95	46992	50013	11.61	6
Dieldrin	12.49	12.42	12.63	85031	94423	12.49	11
Endrin	13.16	13.09	13.23	72614	79556	13.16	10
4,4'-DDD	14.06	13.99	14.13	53909	78976	14.06	46
4,4'-DDT	15.30	15.23	15.37	47996	44718	15.28	7
Methoxychlor	17.37	17.30	17.44	161499	163768	17.35	1
Tetrachloro-m-xylene	4.19	4.12	4.26	47172	49138	4.19	4
Decachlorobiphenyl	22.85	22.75	22.95	145017	155656	22.85	7

EPA Sample no. (INDB): _____ Date Analyzed: 1/23/96

LAB Sample ID: (INDB): Pest Mix B 20ug/L Time Analyzed: 17:30

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
beta-BHC	5.91	5.86	5.96	27726	31244	5.91	15
delta-BHC	6.76	6.71	6.81	29743	34225	6.76	15
Aldrin	9.15	9.10	9.20	45819	49608	9.15	8
Heptachlor epoxide	10.47	10.40	11.80	50680	55863	10.47	10
4,4'-DDE	12.66	12.59	12.73	68844	83659	12.66	22
Endosulfan II	13.51	13.44	13.58	93516	102771	13.51	10
Endosulfan sulfate	14.98	14.91	15.05	88596	96863	14.98	10
Endrin ketone	16.43	16.36	16.50	91882	97080	16.43	6
Endrin aldehyde	14.18	14.11	14.25	79273	90000	14.16	14
alpha-Chlordane	11.77	11.70	11.84	52757	56776	11.77	8
gamma-Chlorodane	11.26	11.19	11.33	54303	58784	11.26	8
Tetrachloro-m-xylene	4.19	4.12	4.26	49095	57646	4.19	4
Decachlorobiphenyl	22.86	22.76	22.96	150638	164132	22.85	9

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
CHLORDANE Processed: 01-23-1996 03:27:58, segment 26, cycle 13
RAW DATA SAVED IN FILE D:JR22D13.PTS Second Channel Stored in D:KR22D13.PTS

EXTERNAL STANDARD TABLE

********** 01-23-1996 03:28:47 Version 5.1.5 **********

* Sample Name: CHLORDANE 1PPM Data File: D:JR22D13 *
* Date: 01-23-1996 02:57:22 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 13 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m, .35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

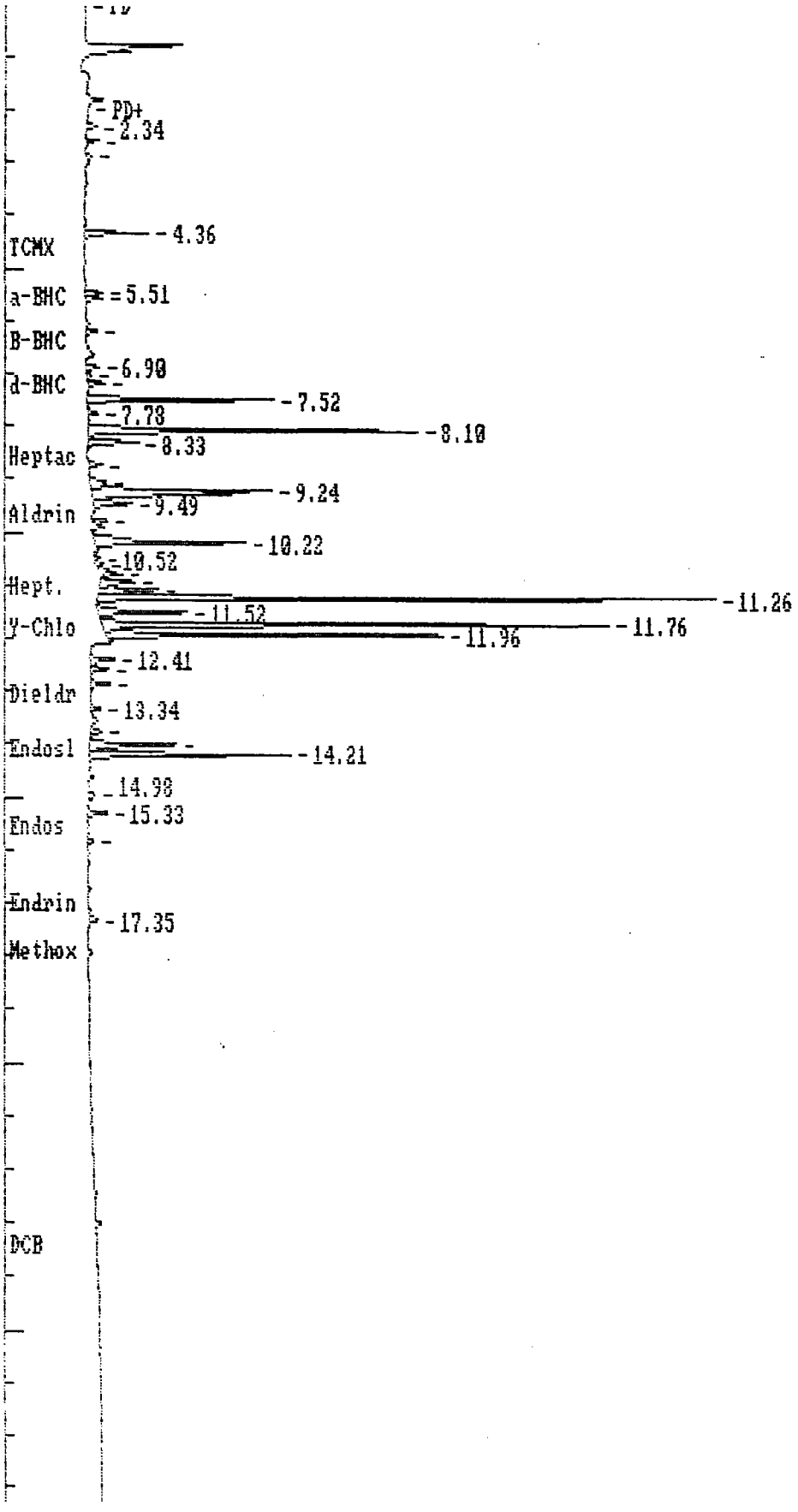
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.338		0.0000	0.0000%	6215	1345	4.6	1			1.0000E-09
2	2.605		0.0000	0.0000%	7239	1605	4.5	1			1.0000E-09
3	2.906		0.0000	0.0000%	2982	760	3.9	1			1.0000E-09

6	5.594	a-BHC	3.3799	1.6356%	9307	2185	4.3	2	0	.6024	3.6317E-04
7	6.229		0.0000	0.0000%	5828	1345	4.3	1			1.0000E-09
8	6.397		0.0000	0.0000%	7277	1688	4.3	1			1.0000E-09
9	7.064		0.0000	0.0000%	2600	660	3.9	1			1.0000E-09
10	7.214	d-BHC	4.6307	2.2409%	9157	2262	4.0	1	0	0	5.0563E-04
11	7.515		0.0001	0.0000%	86396	22904	3.8	1			1.0000E-09
12	7.782		0.0000	0.0000%	6508	1354	4.8	1			1.0000E-09
13	8.099		0.0002	0.0001%	161666	40550	4.0	2			1.0000E-09
14	8.333		0.0000	0.0000%	28521	6370	4.5	2			1.0000E-09
15	8.751	Heptachlor	2.1917	1.0606%	7162	1757	4.1	1	0	1.990	3.0600E-04
16	9.085		0.0000	0.0000%	16277	2049	7.9	2			1.0000E-09
17	9.235		0.0002	0.0001%	154665	22136	7.0	2			1.0000E-09
18	9.486	Aldrin	8.9306	4.3218%	24361	4762	5.1	2	0	-1.703	3.6660E-04
19	9.820		0.0000	0.0000%	6045	1619	3.7	1			1.0000E-09
20	10.220		0.0001	0.0000%	83967	18527	4.5	1			1.0000E-09
21	10.521		0.0000	0.0000%	2465	712	3.5	1			1.0000E-09
22	10.621		0.0000	0.0000%	2516	789	3.2	1			1.0000E-09
23	10.822		0.0000	0.0000%	8365	2407	3.5	1			1.0000E-09
24	10.972	Hept. epox.	7.8312	3.7897%	21808	4381	5.0	2	0	-.1647	3.5909E-04
25	11.105		0.0000	0.0000%	35683	7432	4.8	2			1.0000E-09
26	11.256		0.0003	0.0001%	294077	76083	3.9	2			1.0000E-09
27	11.523		0.0000	0.0000%	49024	11092	4.4	2			1.0000E-09
28	11.757	Y-Chlordane	83.5230	40.4190%	256122	62214	4.1	2	0	-.2816	3.2611E-04
29	11.957	Endosulfan I	55.1001	26.6644%	161677	41385	3.9	2	0	-1.505	3.4080E-04
30	12.408	a-Chlordane	5.0625	2.4499%	15645	3038	5.1	2	0	.9609	3.2358E-04
31	12.625		0.0000	0.0000%	12084	2260	5.3	2			1.0000E-09
32	12.876	Dieldrin	3.3292	1.6111%	10512	2392	4.4	1	0	-1.153	3.1669E-04
33	13.343	4,4-DDE	1.8287	0.8850%	5203	1224	4.3	1	0	1.238	3.5145E-04
34	13.777	Endrin	2.9136	1.4100%	8710	1416	6.2	1	0	.4850	3.3450E-04
35	14.028	Endoslf II	19.6052	9.4875%	53467	10778	5.0	2	0	-.2275	3.6668E-04
36	14.212		0.0001	0.0001%	103485	24684	4.2	2			1.0000E-09
37	14.980	Endrin ald	1.8283	0.8847%	4150	816	5.1	1	0	1.696	4.4051E-04
38	15.331	Endos sulf	4.8705	2.3570%	11297	2423	4.7	1	0	-1.283	4.3115E-04
39	15.865	DDT	1.6165	0.7823%	3682	716	5.1	1	0	.3161	4.3899E-04
40	17.351		0.0000	0.0000%	6484	1050	6.2	1			1.0000E-09

TOTAL AMOUNT = 206.6429

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D13.ATB
Data File = D:JR22D13.PTS Printed on 01-23-1996 at 03:29:08
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 03:29:25 Version 5.1.5 **********

* Sample Name: CHLORDANE 1PPM Data File: D:KR22013 *
* Date: 01-23-1996 02:57:22 Method: M:8PES-H 11-17-1995 16:01:54 # 369 *
* Interface: 1 Cycle#: 13 Operator JJK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 500 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.622		0.0000	0.0000%	1526	468	3.3	1			1.0000E-09
2	2.973		0.0000	0.0000%	9364	2067	4.5	1			1.0000E-09
3	3.674		0.0000	0.0000%	18929	4588	4.1	1			1.0000E-09
4	5.261		0.0000	0.0000%	9329	2205	4.2	1			1.0000E-09
5	5.745		0.0000	0.0000%	9597	2161	4.4	1			1.0000E-09
6	6.429		0.0000	0.0000%	6199	1387	4.5	1			1.0000E-09
7	6.814		0.0000	0.0000%	6616	1406	4.7	1			1.0000E-09
8	7.097		0.0000	0.0000%	7275	1880	3.9	1			1.0000E-09
9	7.448		0.0001	0.0000%	85811	21262	4.0	3			1.0000E-09
10	7.598		0.0000	0.0000%	4359	988	4.4	4			1.0000E-09
11	7.766		0.0000	0.0000%	11899	3011	4.0	2			1.0000E-09
12	7.916	Y-BHC	56.2562	22.5413%	150383	39474	3.8	2	0	.5819	3.7409E-04
13	8.584	Heptachlor	16.1282	6.4624%	43183	9756	4.4	2	0	1.824	3.7349E-04
14	8.818		0.0000	0.0000%	13603	2964	4.6	2			1.0000E-09
15	9.268	Aldrin	2.6676	1.0689%	6302	1526	4.1	1	0	.3084	4.2332E-04
16	9.502		0.0000	0.0000%	8145	1778	4.6	2			1.0000E-09
17	9.636		0.0001	0.0000%	60028	14872	4.0	2			1.0000E-09
18	9.769		0.0001	0.0000%	98514	20381	4.8	2			1.0000E-09
19	10.003		0.0000	0.0000%	28343	3766	7.5	2			1.0000E-09
20	10.554	B-BHC	4.3409	1.9397%	7457	946	7.9	1	0	-.1475	6.4913E-04
21	10.872		0.0000	0.0000%	7481	1228	6.1	2			1.0000E-09
22	11.022		0.0000	0.0000%	21913	4322	5.1	2			1.0000E-09
23	11.306	d-BHC	43.3838	17.3834%	85104	9435	9.0	1	0	.9455	5.0977E-04
24	11.690	Hept. epox.	21.2043	8.4964%	52424	12066	4.3	2	0	.6024	4.0447E-04
25	11.807		0.0000	0.0000%	23751	4774	5.0	2			1.0000E-09
26	12.141		0.0002	0.0001%	244757	59558	4.1	2			1.0000E-09
27	12.408	Endosulf I	76.7491	30.7526%	201824	50318	4.0	2	0	0	3.8023E-04
28	12.542		0.0002	0.0001%	153082	38309	4.3	2			1.0000E-09
29	12.709	Y-Chlordane	9.3147	3.7323%	24719	5681	4.4	3	0	-.1673	3.7693E-04
30	12.926	a-Chlordane	2.4677	0.9888%	6534	1179	5.6	4	0	-.3407	3.7769E-04
31	13.176		0.0001	0.0000%	58483	10476	5.6	2			1.0000E-09
32	13.410	4,4 ODE	3.1572	1.2651%	7250	1822	4.0	1	0	.2999	4.3543E-04
33	13.777	Dieldrin	1.7662	0.7077%	4584	942	4.9	1	0	.7127	3.8528E-04
34	13.928		0.0000	0.0000%	1924	560	3.4	1			1.0000E-09
35	14.095		0.0000	0.0000%	3792	1041	3.6	1			1.0000E-09
[illegible]									0	1.279	4.0892E-04

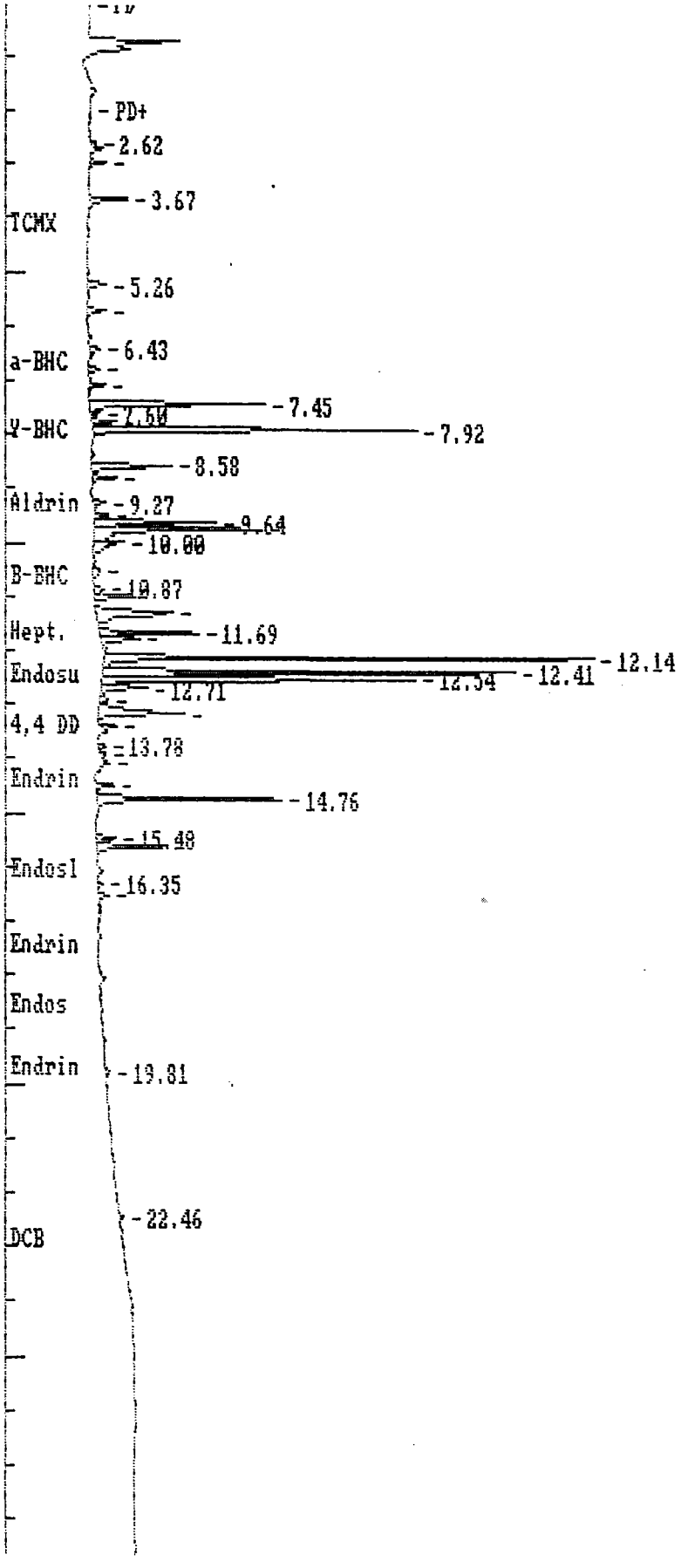
39	15.631		0.0000	0.0000%	40455	8508	4.8	2		1.0000E-09
40	16.349	4'4-DDD	1.4811	0.5935%	2356	571	4.1	1	0	1.769	6.2874E-04
41	16.550	4,4 DDT	3.9326	1.5757%	6440	1252	5.1	1	0	0	5.1066E-04
42	19.806	Endrin ket	1.1264	0.4513%	2742	491	5.6	1	0	.8462	4.1071E-04
43	22.461	DCB	0.8741	0.3502%	2861	556	5.1	1	0	-1.743	3.0554E-04

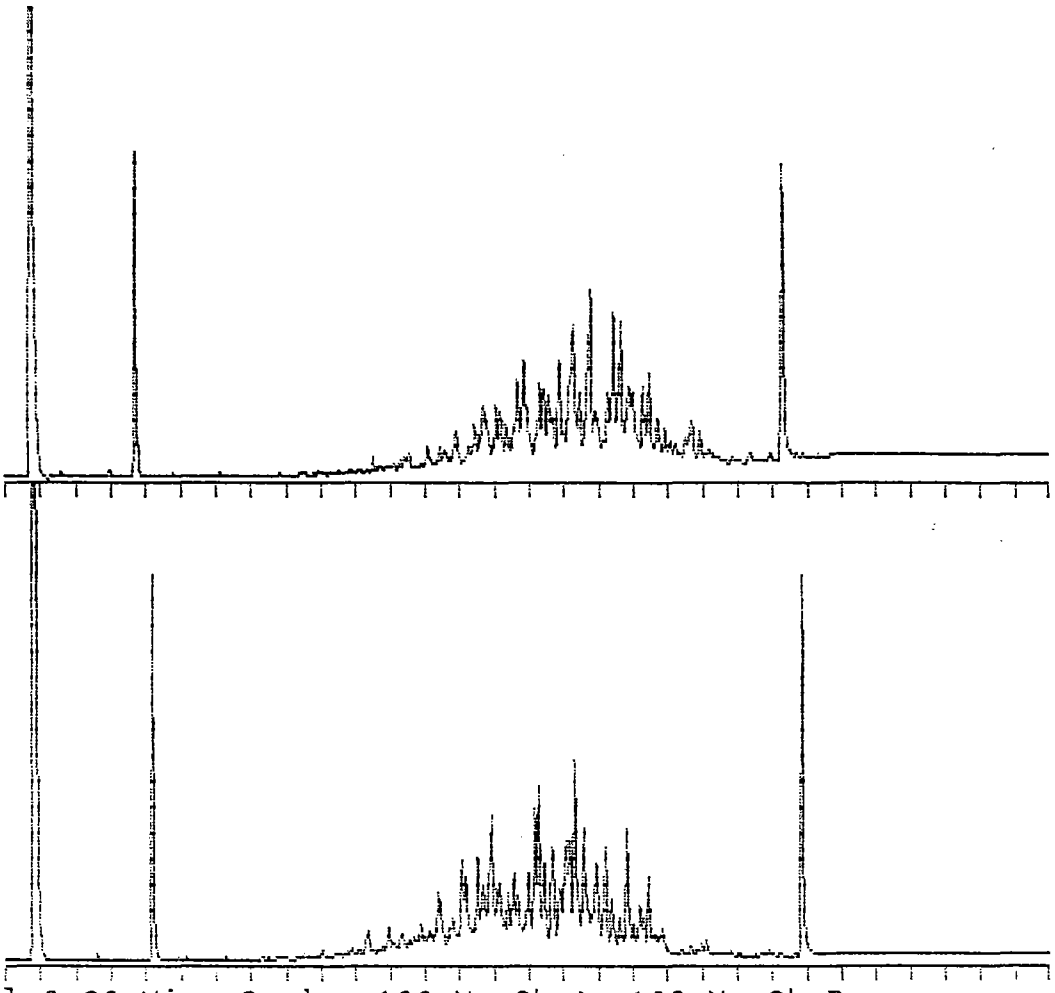
TOTAL AMOUNT = 249.5699

292

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:KR22D13.ATB
Data File = D:KR22D13.PTS Printed on 01-23-1996 at 03:30:18
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
TOXAPHENE Processed: 01-23-1996 04:02:01, segment 27, cycle 14
RAW DATA SAVED IN FILE D:JR22D14.PTS Second Channel Stored in D:KR22D14.PTS

EXTERNAL STANDARD TABLE

01-23-1996 04:02:50 Version 5.1.5

Sample Name: TOXAPHENE 2.5 PPM Data File: D:JR22D14
Date: 01-23-1996 03:31:25 Method: M:APES-H 11-17-1995 15:56:16 # 376
Interface: 1 Cycle#: 14 Operator JJK Channel#: 0 Vial#: N.A.
Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000

Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m, .35mm
Solvent Description: 1.0u df
Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min
Detector 0: Detector 1: ECD
Misc. Information:

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

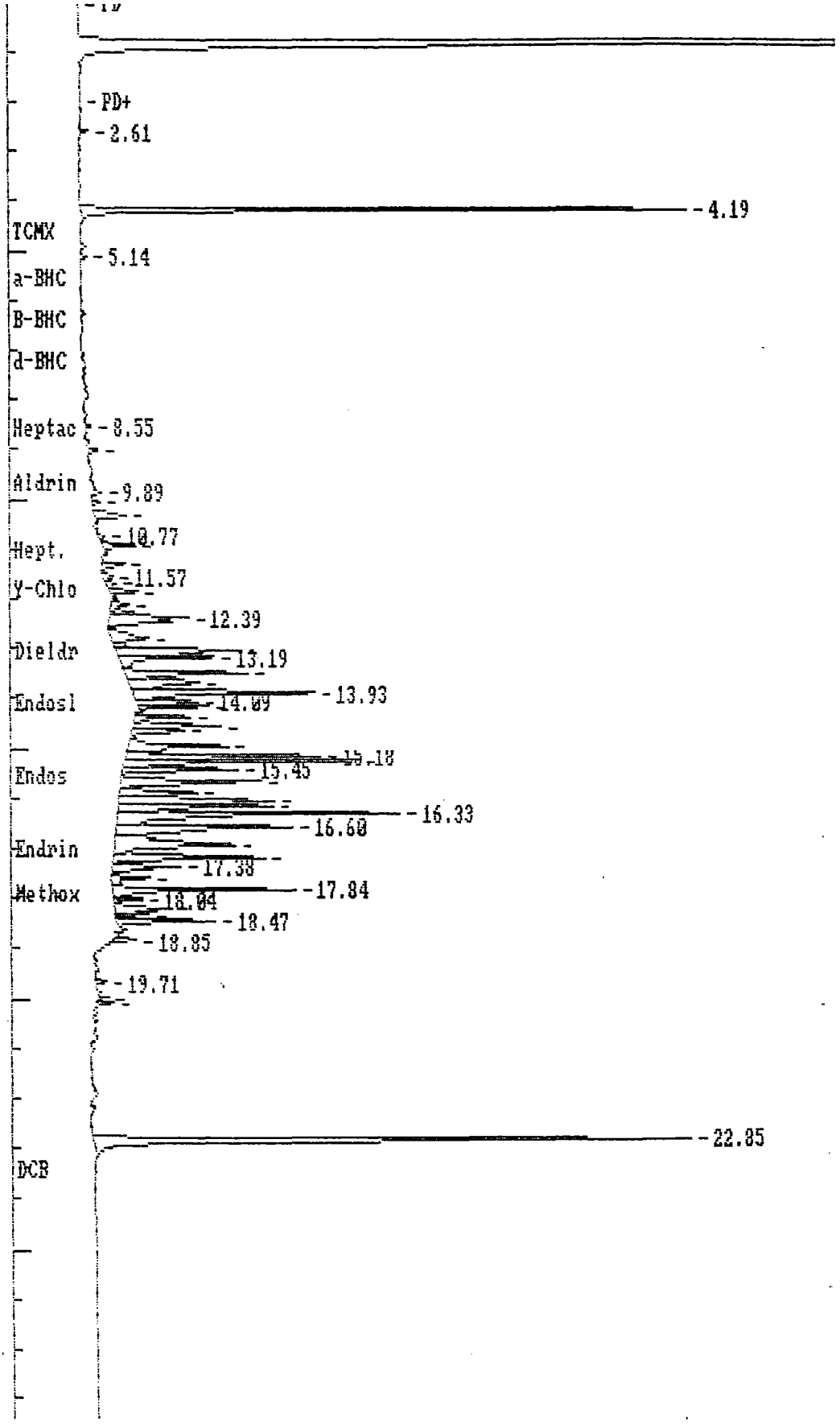
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	0.0000%	5132	1208	4.2 1			1.0000E-09
2	4.192		0.0003	0.0001%	310146	79589	3.9 1			1.0000E-09

6	9.886		0.0000	0.0000%	4907	1226	3.9	1		1.0000E-09
7	10.087		0.0000	0.0000%	4194	1010	4.2	1		1.0000E-09
8	10.354		0.0000	0.0000%	26804	4124	6.5	1		1.0000E-09
9	10.771		0.0000	0.0000%	3688	832	4.4	1		1.0000E-09
10	10.972	Hept. epox.	6.8950	2.0582%	19201	4243	4.5	1	0	-.1647	3.5909E-04
11	11.323		0.0000	0.0000%	20045	3125	6.4	1			1.0000E-09
12	11.573		0.0000	0.0000%	7650	1358	5.6	2			1.0000E-09
13	11.707	Y-Chlordane	2.2994	0.6864%	7051	1344	5.2	2	0	-.7065	3.2611E-04
14	11.890		0.0000	0.0000%	19098	3597	5.3	2			1.0000E-09
15	12.141	Endosulfan I	5.5121	1.6454%	16174	2434	6.6	2	0	0	3.4080E-04
16	12.291	a-Chlordane	4.1144	1.2282%	12715	3373	3.8	2	0	0	3.2358E-04
17	12.391		0.0001	0.0000%	87204	10452	8.3	2			1.0000E-09
18	12.826		0.0000	0.0000%	40481	4955	8.2	2			1.0000E-09
19	13.076	Dieldrin	28.3627	8.4666%	89560	16241	5.5	2	0	.3846	3.1669E-04
20	13.193	4,4-DDE	24.5634	7.3325%	69891	12516	5.6	2	0	0	3.5143E-04
21	13.527		0.0001	0.0000%	77691	16094	4.8	2			1.0000E-09
22	13.711	Endrin	24.3234	7.2606%	72715	9249	7.9	2	0	0	3.3453E-04
23	13.928		0.0002	0.0000%	151756	23927	6.3	2			1.0000E-09
24	14.095	Endoslf II	12.4337	3.7116%	33909	8001	4.2	2	0	.2475	3.6663E-04
25	14.178		0.0000	0.0000%	37500	9165	4.1	2			1.0000E-09
26	14.412		0.0000	0.0000%	27221	7327	3.7	2			1.0000E-09
27	14.579	4'4-DDD	30.7594	9.1821%	55550	11496	4.8	2	0	0	5.5372E-04
28	14.679	Endrin ald	14.8077	4.4203%	33615	6854	4.9	2	0	-.3441	4.4051E-04
29	14.980		0.0001	0.0000%	69591	13069	5.3	2			1.0000E-09
30	15.180		0.0001	0.0000%	110185	25711	4.3	2			1.0000E-09
31	15.280		0.0001	0.0000%	145368	30808	4.7	2			1.0000E-09
32	15.447	Endos sulf	31.4689	9.3938%	72988	15143	4.8	2	0	-.5312	4.3115E-04
33	15.681		0.0001	0.0000%	119327	18466	6.5	2			1.0000E-09
34	15.915	DDT	28.2096	8.4209%	64259	10231	6.3	2	0	.6329	4.3899E-04
35	16.082		0.0001	0.0000%	137777	20433	6.7	2			1.0000E-09
36	16.182		0.0001	0.0000%	96774	20302	4.8	2			1.0000E-09
37	16.333		0.0002	0.0001%	220241	37202	5.9	2			1.0000E-09
38	16.600		0.0002	0.0000%	159794	23240	6.9	2			1.0000E-09
39	16.950	Endrin ket.	49.1715	14.6783%	153028	15885	9.6	2	0	-.2911	3.2132E-04
40	17.218		0.0001	0.0000%	113965	20020	5.9	2			1.0000E-09
41	17.385		0.0001	0.0000%	52656	9071	5.8	2			1.0000E-09
42	17.618		0.0000	0.0000%	27061	5167	5.2	2			1.0000E-09
43	17.836	Methoxychlor	70.3297	21.1435%	115395	24091	4.8	2	0	-.1869	6.1380E-04
44	18.036		0.0000	0.0000%	15485	3826	4.0	2			1.0000E-09
45	18.220		0.0000	0.0000%	41246	7444	5.5	2			1.0000E-09
46	18.337		0.0000	0.0000%	17935	4588	3.9	2			1.0000E-09
47	18.470		0.0001	0.0000%	51895	12906	4.0	1			1.0000E-09
48	18.854		0.0000	0.0000%	15666	3193	4.9	1			1.0000E-09
49	19.706		0.0000	0.0000%	6672	1427	4.7	1			1.0000E-09
50	20.007		0.0000	0.0000%	5809	1521	3.8	2			1.0000E-09
51	20.123		0.0000	0.0000%	10950	2418	4.5	2			1.0000E-09
52	22.846		0.0004	0.0001%	390454	78404	5.0	1			1.0000E-09

TOTAL AMOUNT = 334.9947

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:JR22D14.ATB
Data File = D:JR22D14.PTS Printed on 01-23-1996 at 04:03:11
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 04:03:46 Version 5.1.5 **********

* Sample Name: TOXAPHENE 2.5 PPM Data File: D:KR22D14 *
* Date: 01-23-1996 03:31:25 Method: M:BPES-H 11-17-1995 16:01:54 # 369 *
* Interface: 1 Cycle#: 14 Operator JJK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 500 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

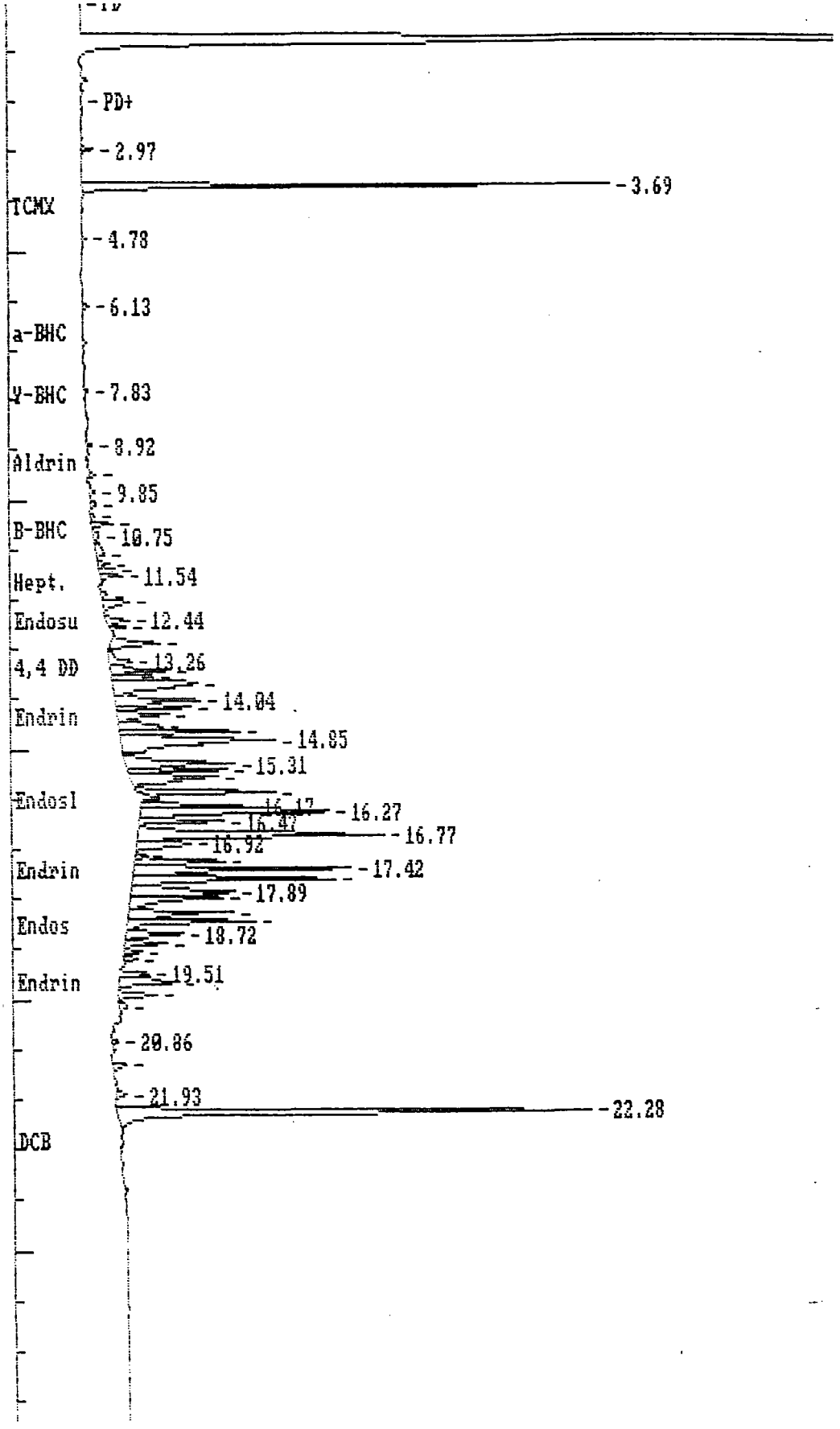
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.0000%	6943	1600	4.3	1			1.0000E-09
2	3.691		0.0003	0.0001%	291715	69649	4.2	1			1.0000E-09
3	4.776		0.0000	0.0000%	2453	617	4.0	1			1.0000E-09
4	6.129		0.0000	0.0000%	3612	854	4.2	1			1.0000E-09
5	7.832	Y-BHC	0.8839	0.2349%	2363	526	4.5	1	0	-.4790	3.7409E-04
6	8.918		0.0000	0.0000%	3359	756	4.4	1			1.0000E-09
7	9.519		0.0000	0.0000%	3781	1006	3.8	1			1.0000E-09
8	9.853		0.0000	0.0000%	3274	696	4.7	1			1.0000E-09
9	10.120		0.0000	0.0000%	5431	807	6.7	1			1.0000E-09
10	10.337		0.0000	0.0000%	3296	682	4.8	2			1.0000E-09
11	10.504	B-BHC	8.7089	2.3146%	13415	2943	4.6	2	0	-.6215	6.4918E-04
12	10.755		0.0000	0.0000%	7695	859	9.0	2			1.0000E-09
13	11.122	d-BHC	7.9733	2.1191%	15641	1180	13.3	2	0	-.6946	5.0977E-04
14	11.306		0.0000	0.0000%	7327	1545	5.1	2			1.0000E-09
15	11.423		0.0000	0.0000%	9748	2089	4.7	2			1.0000E-09
16	11.540	Hept. epox.	6.2904	1.6718%	15552	2936	5.3	2	0	-.6910	4.0447E-04
17	11.924		0.0000	0.0000%	4540	847	5.4	1			1.0000E-09
18	12.074		0.0000	0.0000%	25367	3578	7.1	1			1.0000E-09
19	12.441	Endosulf I	5.6933	1.5131%	14971	2975	5.0	2	0	.1731	3.8029E-04
20	12.558		0.0000	0.0000%	10402	2111	4.9	2			1.0000E-09
21	12.892	a-Chlordane	17.4467	4.6368%	46194	6522	7.1	1	0	-.5983	3.7769E-04
22	13.260		0.0000	0.0000%	22256	2951	7.5	2			1.0000E-09
23	13.443	4,4 DDE	18.5534	4.9309%	42604	7728	5.5	2	0	.5497	4.3548E-04
24	13.577		0.0000	0.0000%	25346	5440	4.7	2			1.0000E-09
25	13.711	Dieldrin	46.6321	12.3934%	121035	11035	11.0	2	0	.2243	3.8528E-04
26	14.045		0.0001	0.0000%	63018	11074	5.7	2			1.0000E-09
27	14.176		0.0001	0.0000%	53745	9752	5.5	2			1.0000E-09
28	14.329	Endrin	18.2042	4.8381%	44518	6779	6.6	2	0	0	4.0892E-04
29	14.562		0.0000	0.0000%	33747	5721	5.9	2			1.0000E-09
30	14.663		0.0001	0.0000%	78836	15671	5.0	2			1.0000E-09
31	14.846		0.0002	0.0000%	177319	20156	8.8	2			1.0000E-09
32	15.314		0.0001	0.0000%	83449	14108	5.9	2			1.0000E-09
33	15.431		0.0001	0.0000%	68356	12806	5.3	2			1.0000E-09
34	15.581		0.0001	0.0000%	86728	11273	7.7	2			1.0000E-09
35	15.882		0.0001	0.0000%	81815	16954	4.8	1			1.0000E-09
36	16.166	4'4-DDD	32.1536	8.5455%	51140	13164	3.9	2	0	.6262	6.2874E-04

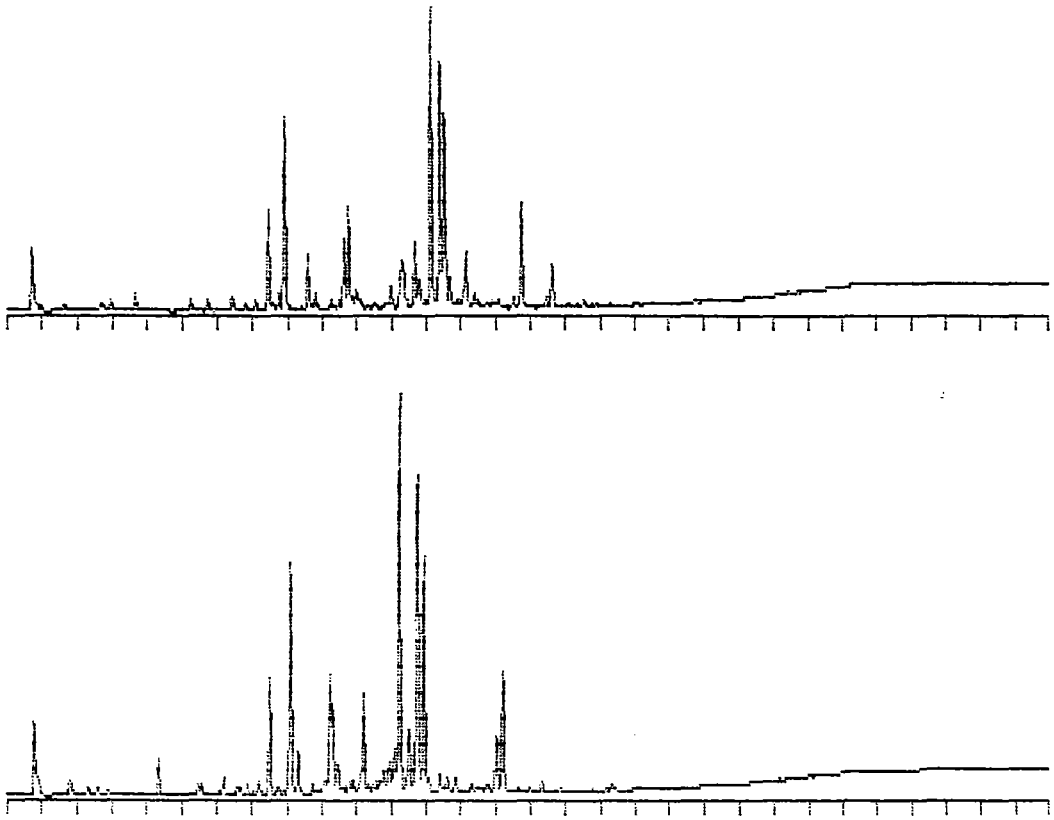
39	16.767		0.0002	0.0001%	241338	32507	7.4	2		1.0000E-09
40	16.917		0.0001	0.0000%	57955	7067	8.2	2		1.0000E-09
41	17.134		0.0000	0.0000%	6310	1456	4.3	2		1.0000E-09
42	17.268		0.0001	0.0000%	63960	11803	5.4	2		1.0000E-09
43	17.418	Endrin ald	94.0849	25.0049%	160522	28678	5.6	2	0	.1040	5.8612E-04
44	17.635		0.0002	0.0000%	165352	26705	6.2	2			1.0000E-09
45	17.886		0.0001	0.0000%	107815	13510	8.0	2			1.0000E-09
46	18.003		0.0001	0.0000%	84039	12153	6.9	2			1.0000E-09
47	18.286		0.0001	0.0000%	80712	13700	5.9	2			1.0000E-09
48	18.470	Endos sulf	42.8966	11.4006%	84302	16719	5.0	2	0	-.1610	5.0885E-04
49	18.721		0.0001	0.0000%	50034	7446	6.7	2			1.0000E-09
50	18.904	Methoxychl	22.5627	5.9965%	26415	5583	4.7	2	0	.2885	8.5415E-04
51	19.071		0.0000	0.0000%	9816	2409	4.1	2			1.0000E-09
52	19.222		0.0000	0.0000%	8693	1782	4.9	1			1.0000E-09
53	19.506		0.0000	0.0000%	20442	4034	5.1	2			1.0000E-09
54	19.706	Endrin ket	26.1553	6.9513%	63682	7803	8.2	2	0	.3360	4.1071E-04
55	19.940		0.0000	0.0000%	27885	5198	5.4	2			1.0000E-09
56	20.190		0.0000	0.0000%	9258	1115	8.3	2			1.0000E-09
57	20.858		0.0000	0.0000%	5212	890	5.9	1			1.0000E-09
58	21.343		0.0000	0.0000%	12248	1860	6.6	1			1.0000E-09
59	21.927		0.0000	0.0000%	7746	1445	5.4	1			1.0000E-09
60	22.278		0.0004	0.0001%	357538	62520	5.7	1			1.0000E-09

TOTAL AMOUNT = 376.2651

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:KR22D14.ATB
Data File = D:KR22D14.PTS Printed on 01-23-1996 at 04:04:49
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
CHLORDANE Processed: 01-23-1996 10:51:12, segment 10, cycle 26
RAW DATA SAVED IN FILE D:JR22D26.PTS Second Channel Stored in D:KR22D26.PTS

EXTERNAL STANDARD TABLE

********** 01-23-1996 10:52:01 Version 5.1.5 **********

* Sample Name: CHLORDANE 1PPM Data File: D:JR22D26 *
* Date: 01-23-1996 10:20:35 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 26 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

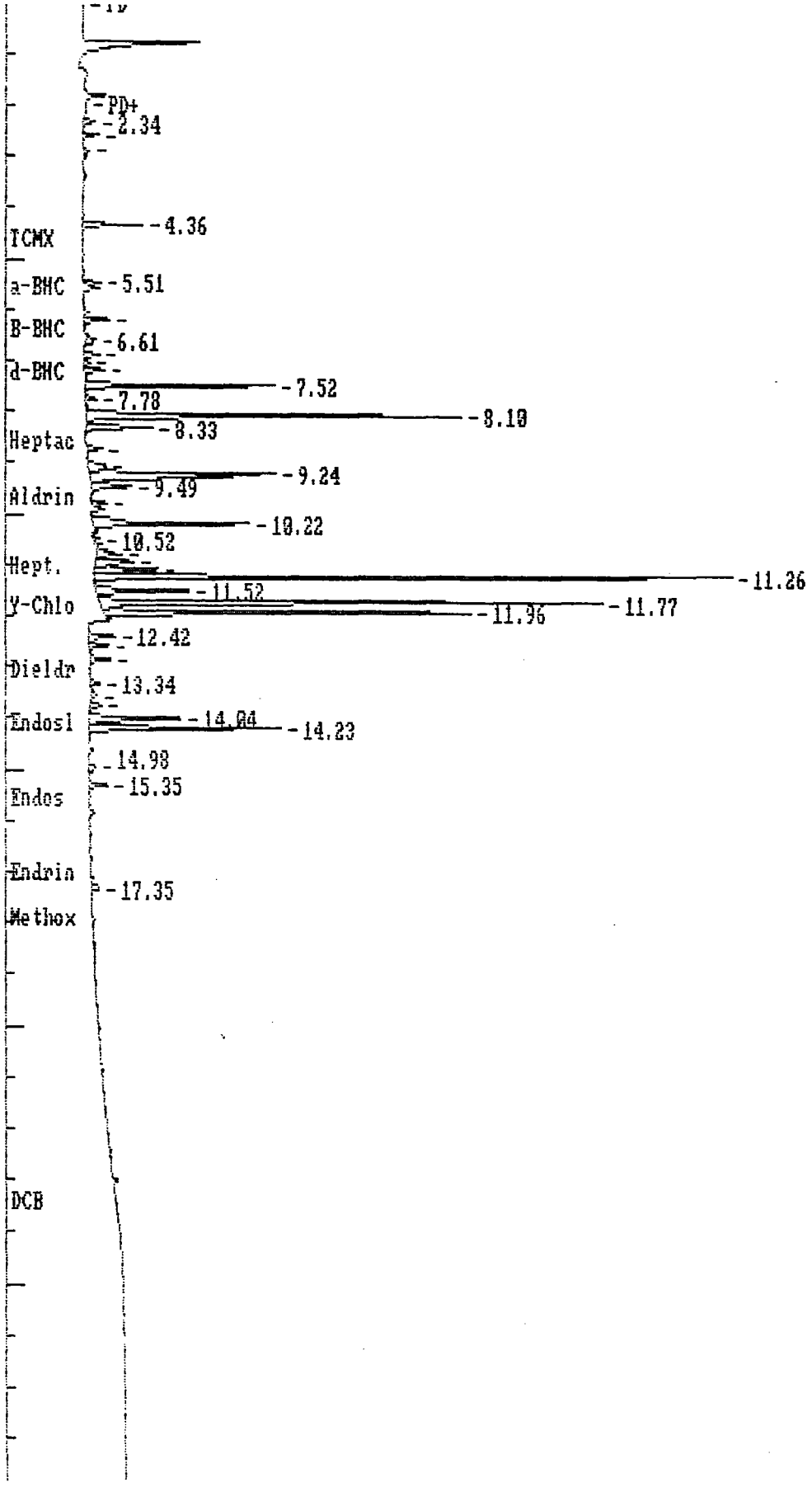
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.338		0.0000	0.0000%	6766	1526	4.4	1			1.0000E-09
2	2.605		0.0000	0.0000%	9163	2071	4.4	1			1.0000E-09
3	2.906		0.0000	0.0000%	3264	837	3.9	1			1.0000E-09

6	6.229		0.0000	[illegible]	12934	3208	4.0 1			1.0000E-09
7	6.613		0.0000	0.0000%	8501	1253	6.8 1			1.0000E-09
8	6.914		0.0000	0.0000%	8249	1980	4.2 1			1.0000E-09
9	7.064		0.0000	0.0000%	3252	760	4.3 2		301	1.0000E-09
10	7.214	d-BHC	6.0942	2.7679%	12051	2650	4.5 2	0	0	5.0563E-04
11	7.515		0.0001	0.0000%	88756	24204	3.7 2			1.0000E-09
12	7.782		0.0000	0.0000%	7141	1442	5.0 2			1.0000E-09
13	8.099		0.0002	0.0001%	186207	48190	3.9 2			1.0000E-09
14	8.333		0.0000	0.0000%	36218	8593	4.2 2			1.0000E-09
15	8.751	Heptachlor	2.4468	1.1113%	7996	1939	4.1 1	0	1.990	3.0600E-04
16	9.085		0.0000	0.0000%	17514	2259	7.8 2			1.0000E-09
17	9.235		0.0002	0.0001%	162035	23869	6.8 2			1.0000E-09
18	9.486	Aldrin	9.5029	4.3160%	25922	5184	5.0 2	0	-1.703	3.6660E-04
19	9.820		0.0000	0.0000%	6560	1832	3.6 1			1.0000E-09
20	10.220		0.0001	0.0000%	89872	20035	4.5 1			1.0000E-09
21	10.521		0.0000	0.0000%	3216	946	3.4 1			1.0000E-09
22	10.822		0.0000	0.0000%	20060	3495	5.7 2			1.0000E-09
23	10.972	Hept. epox.	10.6442	4.8344%	29642	5186	5.7 2	0	-.1647	3.5909E-04
24	11.105		0.0000	0.0000%	38750	8249	4.7 2			1.0000E-09
25	11.256		0.0003	0.0001%	312776	82036	3.8 2			1.0000E-09
26	11.523		0.0001	0.0000%	54253	12010	4.5 2			1.0000E-09
27	11.773	Y-Chlordane	87.8369	39.8938%	269350	64460	4.2 2	0	-.1399	3.2611E-04
28	11.957	Endosulfan I	59.5434	27.0434%	174715	47143	3.7 2	0	-1.505	3.4080E-04
29	12.425	a-Chlordane	5.5324	2.5127%	17098	3440	5.0 2	0	1.096	3.2358E-04
30	12.625		0.0000	0.0000%	13572	2514	5.4 2			1.0000E-09
31	12.892	Dieldrin	3.8136	1.7321%	12042	2655	4.5 1	0	-1.025	3.1669E-04
32	13.343	4,4-DDE	1.9210	0.8725%	5466	1257	4.3 1	0	1.238	3.5145E-04
33	13.594		0.0000	0.0000%	3215	723	4.4 1			1.0000E-09
34	13.794	Endrin	3.1350	1.4239%	9372	1557	6.0 1	0	.6068	3.3450E-04
35	14.045	Endoslf II	20.9830	9.5301%	57225	11725	4.9 2	0	-.1088	3.6668E-04
36	14.228		0.0001	0.0000%	103317	24628	4.2 2			1.0000E-09
37	14.980	Endrin ald	1.8375	0.8346%	4171	821	5.1 1	0	1.696	4.4051E-04
38	15.347	Endos sulf	4.6913	2.1307%	10881	2376	4.6 1	0	-1.176	4.3115E-04
39	17.351		0.0000	0.0000%	5663	853	6.6 1			1.0000E-09

TOTAL AMOUNT = 220.1767

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D26.ATB
Data File = D:JR22D26.PTS Printed on 01-23-1996 at 10:52:21
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 10:52:38 Version 5.1.5 **********

* Sample Name: CHLORDANE 1PPM Data File: D:KR22D26 *

* Date: 01-23-1996 10:20:35 Method: M:BPES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 26 Operator JJK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

****

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

****

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.639		0.0000	0.0000%	2938	718	4.1	2			1.0000E-09
2	2.722		0.0000	0.0000%	7712	1623	4.8	2			1.0000E-09
3	2.973		0.0000	0.0000%	10264	2351	4.4	2			1.0000E-09
4	3.674		0.0000	0.0000%	12664	3366	3.8	1			1.0000E-09
5	5.261		0.0000	0.0000%	9317	2299	4.1	1			1.0000E-09
6	5.745		0.0000	0.0000%	9990	2377	4.2	1			1.0000E-09
7	6.429		0.0000	0.0000%	12701	2964	4.3	1			1.0000E-09
8	6.814		0.0000	0.0000%	6663	1428	4.7	1			1.0000E-09
9	7.097		0.0000	0.0000%	7180	1815	4.0	1			1.0000E-09
10	7.443		0.0001	0.0000%	87475	21223	4.1	3			1.0000E-09
11	7.598		0.0000	0.0000%	6176	1439	4.3	4			1.0000E-09
12	7.766		0.0000	0.0000%	12261	3210	3.8	2			1.0000E-09
13	7.916	Y-BHC	57.1351	22.8980%	152733	40638	3.8	2	0	.5819	3.7409E-04
14	8.600		0.0001	0.0000%	50780	11371	4.5	2			1.0000E-09
15	8.818		0.0000	0.0000%	13586	2951	4.6	2			1.0000E-09
16	9.268	Aldrin	2.7282	1.0934%	6445	1566	4.1	1	0	.3084	4.2332E-04
17	9.502		0.0000	0.0000%	6376	1642	3.9	1			1.0000E-09
18	9.653		0.0001	0.0000%	54006	13700	3.9	2			1.0000E-09
19	9.769		0.0001	0.0000%	75770	19908	3.8	2			1.0000E-09
20	10.020		0.0000	0.0000%	19301	2780	6.9	1			1.0000E-09
21	10.554	B-BHC	2.3560	0.9442%	3629	657	5.5	1	0	-.1475	6.4913E-04
22	10.872		0.0000	0.0000%	6969	1245	5.6	2			1.0000E-09
23	11.022		0.0000	0.0000%	22883	4705	4.9	2			1.0000E-09
24	11.323	d-BHC	45.2678	18.1420%	88800	10070	8.8	2	0	1.094	5.0977E-04
25	11.690	Hept. epox.	24.1938	9.6962%	59815	13573	4.4	2	0	.6024	4.0447E-04
26	11.824		0.0000	0.0000%	30831	5523	5.6	2			1.0000E-09
27	11.991		0.0000	0.0000%	9024	1535	5.9	2			1.0000E-09
28	12.158		0.0003	0.0001%	269841	63151	4.3	2			1.0000E-09
29	12.408	Endosulf I	86.0093	34.4700%	226175	51301	4.4	2	0	0	3.8029E-04
30	12.542		0.0002	0.0001%	171122	41185	4.2	2			1.0000E-09
31	12.709	Y-Chlordane	10.4191	4.1757%	27650	6540	4.2	2	0	-.1673	3.7683E-04
32	12.926	a-Chlordane	3.1502	1.2625%	8341	1432	5.8	2	0	-.3407	3.7768E-04
33	13.176		0.0001	0.0000%	63426	11383	5.6	2			1.0000E-09
34	13.410	4,4 DDE	3.8737	1.5525%	8995	2260	3.9	1	0	.2999	4.3548E-04
35	13.777	Dieldrin	1.8083	0.7247%	4693	1002	4.7	1	0	.7127	3.8528E-04
36	13.928		0.0000	0.0000%	2407	735	3.3	1			1.0000E-09

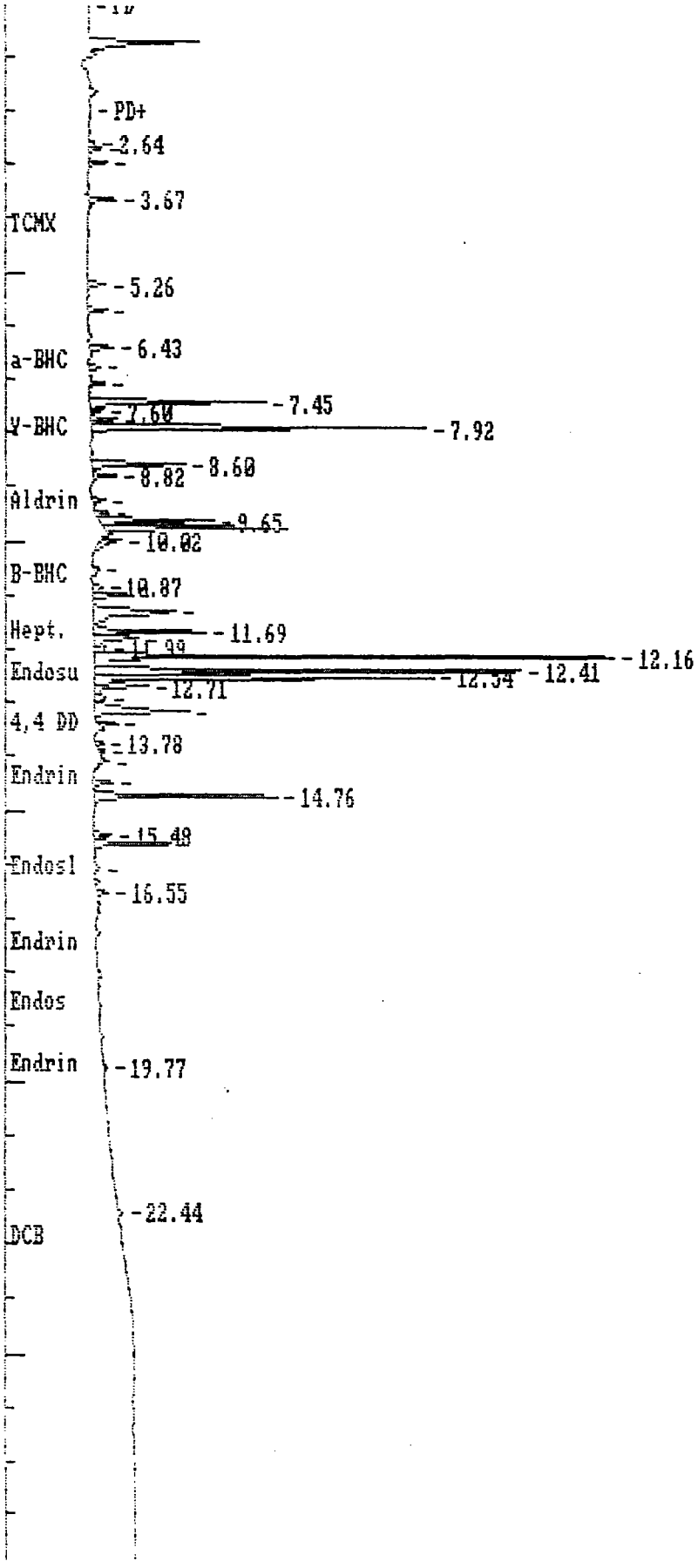
39	14.783	0.0001	0.0000%	7432	21936	4.4	2			1.0000E-09
40	15.481	0.0000	0.0000%	10343	2197	4.7	2			1.0000E-09
41	15.631	0.0000	0.0000%	41917	9308	4.5	2			1.0000E-09
42	16.099 4'4-DDD	2.2170	0.8885%	3526	616	5.7	1	0	.2103	6.2874E-04
43	16.550 4,4 DDT	4.0470	1.6219%	6627	1401	4.7	1	0	0	6.1066E-04
44	19.773 Endrin ket	0.9280	0.3719%	2260	472	4.8	1	0	.6761	4.1071E-04
45	22.445 DCB	0.8611	0.3451%	2818	592	4.8	1	0	-1.816	3.0554E-04

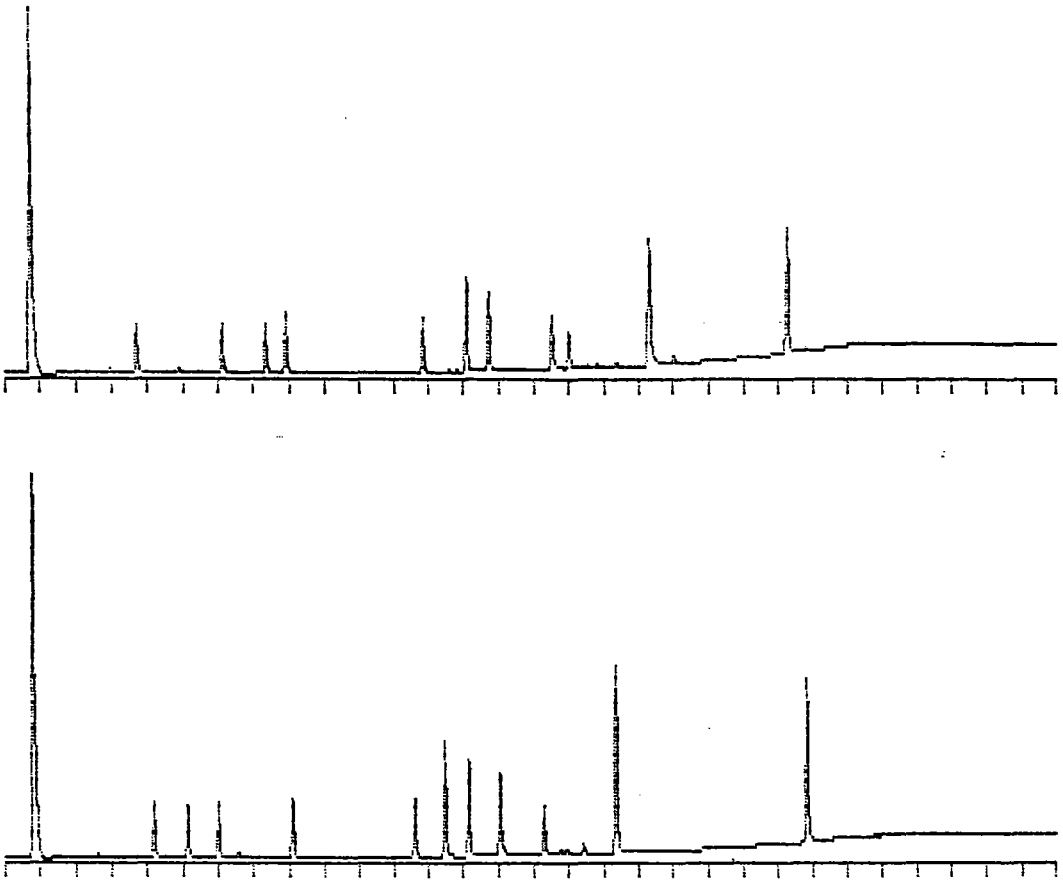
304

TOTAL AMOUNT = 249.5196

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:KR22D26.ATB
Data File = D:KR22D26.PTS Printed on 01-23-1996 at 10:53:33
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
Processed: 01-23-1996 17:27:28, segment 20, cycle 36
RAW DATA SAVED IN FILE D:JR22D36.PTS Second Channel Stored in D:KR22D36.PTS

***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 17:28:17 Version 5.1.5 **********
* Sample Name: test mix A 20 Data File: D:JR22D36 *
* Date: 01-23-1996 16:56:48 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 36 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m, .35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192		0.0000	0.0000%	49138	11542	4.3	1			1.0000E-09
2	5.144		0.0000	0.0000%	40860	10533	3.9	1			1.0000E-09
3	6.012		0.0000	0.0000%	44151	11281	3.9	1			1.0000E-09

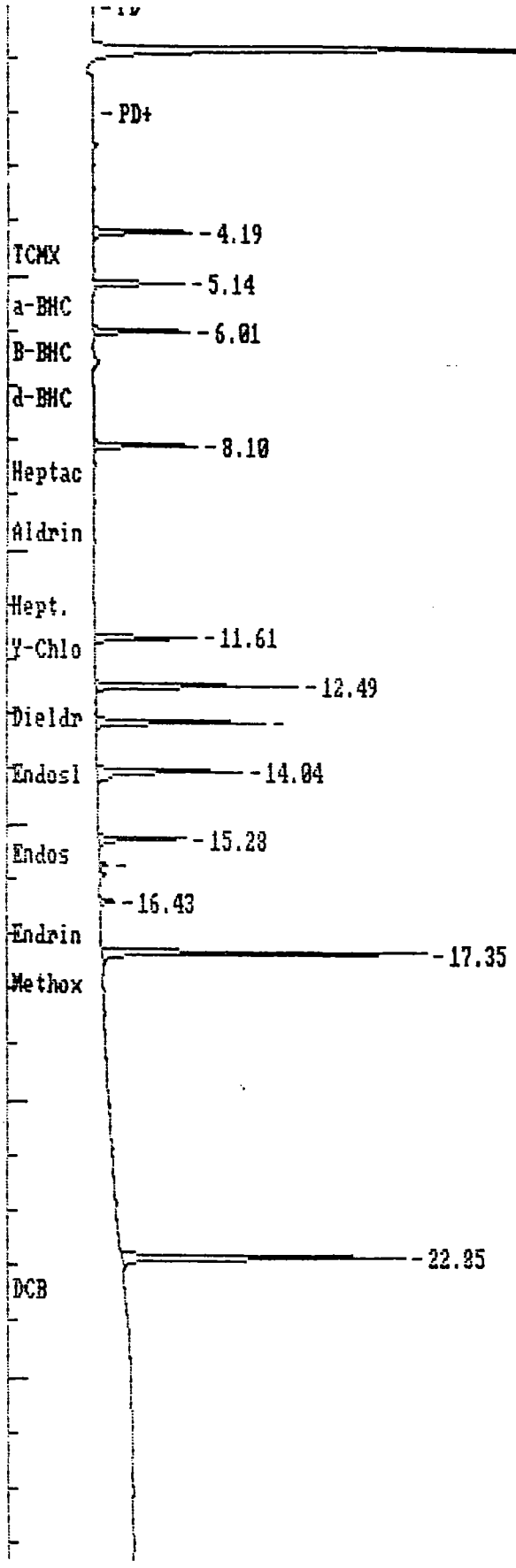
7	13.160 4,4-DDE	27.9602	26.5264%	79556	19796	4.0 1	0	-.1547	3.5145E-04
8	14.045 Endosif II	28.9583	27.4738%	78976	16887	4.7 1	0	-.1098	3.5663E-04
9	15.280	0.0000	0.0000%	44718	10127	4.4 1			1.0000E-09
10	15.765 DDT	1.6227	1.5395%	3696	859	4.3 1	0	-.3174	4.3899E-04
11	16.433	0.0000	0.0000%	7612	1650	4.6 1			1.0000E-09
12	17.351	0.0002	0.0002%	163768	38404	4.3 1			1.0000E-09
13	22.846	0.0002	0.0001%	155656	33640	4.6 1			1.0000E-09

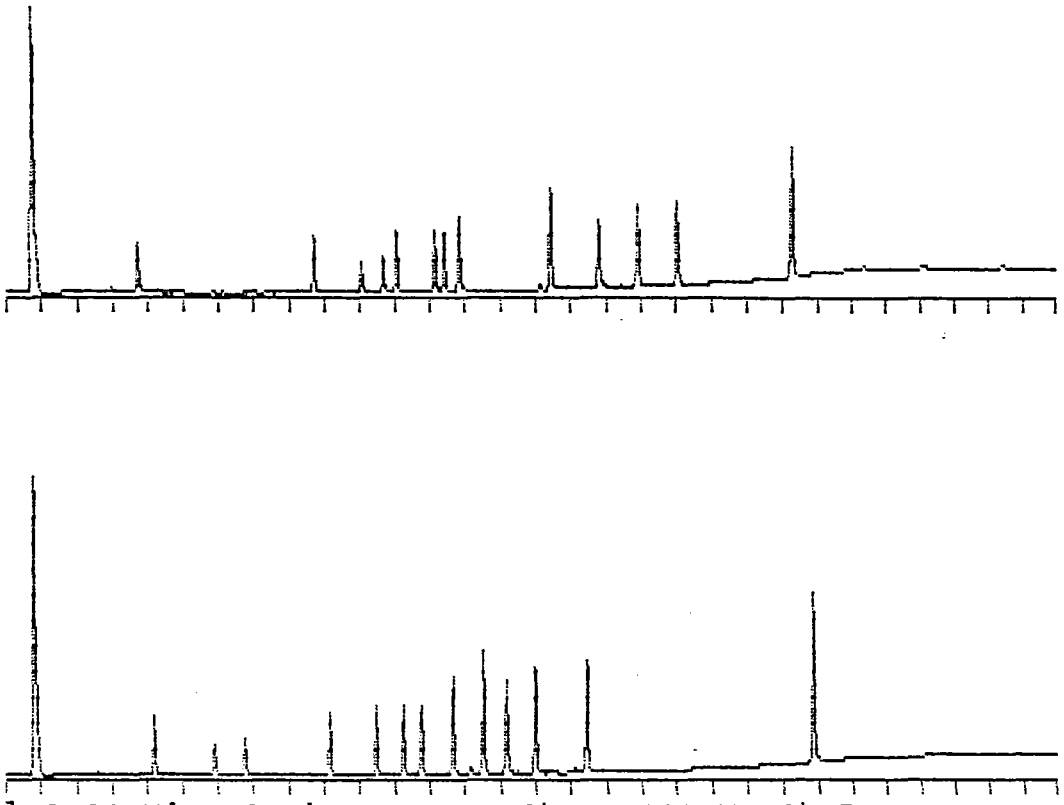
307

TOTAL AMOUNT = 105.4053

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D36.ATB
Data File = D:JR22D36.PTS Printed on 01-23-1996 at 17:28:35
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
Processed: 01-23-1996 18:01:35, segment 21, cycle 37
RAW DATA SAVED IN FILE D:JR22D37.PTS Second Channel Stored in D:KR22D37.PTS

***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 18:02:25 Version 5.1.5 **********

* Sample Name: Pest Mix B 20 Data File: D:JR22D37 *
* Date: 01-23-1996 17:30:55 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 37 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.192		0.0001	0.0000%	51646	12097	4.3	1			1.0000E-09
2	5.912		0.0000	0.0000%	31244	4571	4.8	1			1.0000E-09

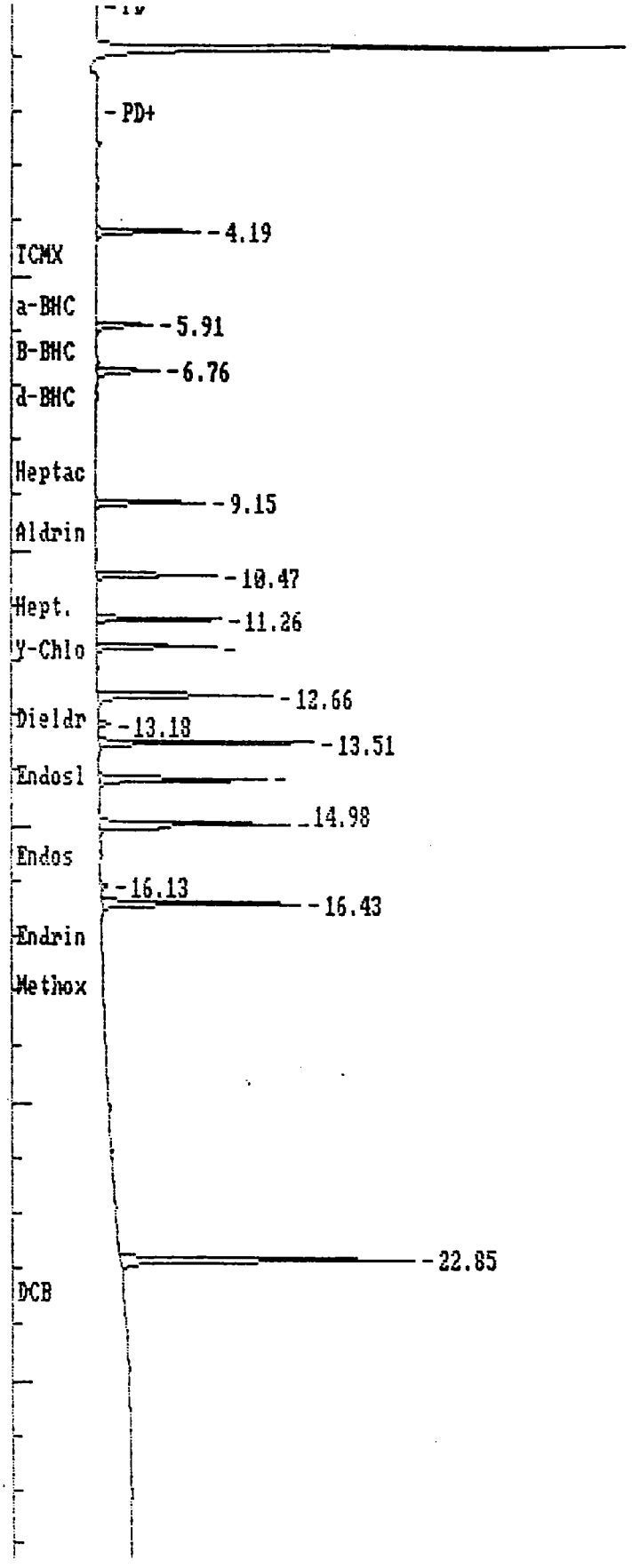
6	11.256		0.0001	0.0000%	58784	14407	4.1	1		1.0000E-09
7	11.773	Y-Chlordane	18.5151	14.1297%	56776	13958	4.1	1	0	-.1399	3.2611E-04
8	12.659		0.0001	0.0001%	83659	20272	4.1	1		1.0000E-09
9	13.176	4,4-DDE	2.4739	1.8879%	7039	1418	5.0	1	0	0	3.5145E-04
10	13.510	Endrin	34.3771	26.2346%	102771	25119	4.1	1	0	-1.463	3.3450E-04
11	14.162	Endoslf II	33.0011	25.1845%	90000	19581	4.6	1	0	.7226	3.6668E-04
12	14.980	Endrin ald	42.6695	32.5629%	96863	22156	4.4	1	0	1.696	4.4051E-04
13	16.132		0.0000	0.0000%	4269	748	5.7	1			1.0000E-09
14	16.433		0.0001	0.0001%	97080	23226	4.2	1			1.0000E-09
15	22.846		0.0002	0.0001%	164132	34726	4.7	1			1.0000E-09

310 0

TOTAL AMOUNT = 131.0374

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D37.ATB
Data File = D:JR22D37.PTS Printed on 01-23-1996 at 18:02:43
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



Lab Name: Enseo Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: DB-5

DATE(S) OF ANALYSIS FROM: 1/10/96 TO: _____
TIME(S) OF ANALYSIS FROM: 20:52 TO: _____
DATE OF ANALYSIS 1/22/96
TIME OF ANALYSIS 11:03
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.07	8.00	8.14	130948	8.05	198004		51
Aroclor 1221								
Aroclor 1232								
Aroclor 1242								
Aroclor 1248								
Aroclor 1254								
Aroclor 1260	18.15	8.08	8.22	264193	18.12	245305	N	6

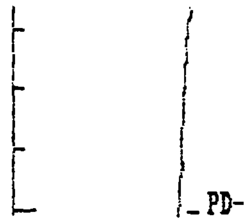
Lab Name: Ensr Analytical Contract: _____

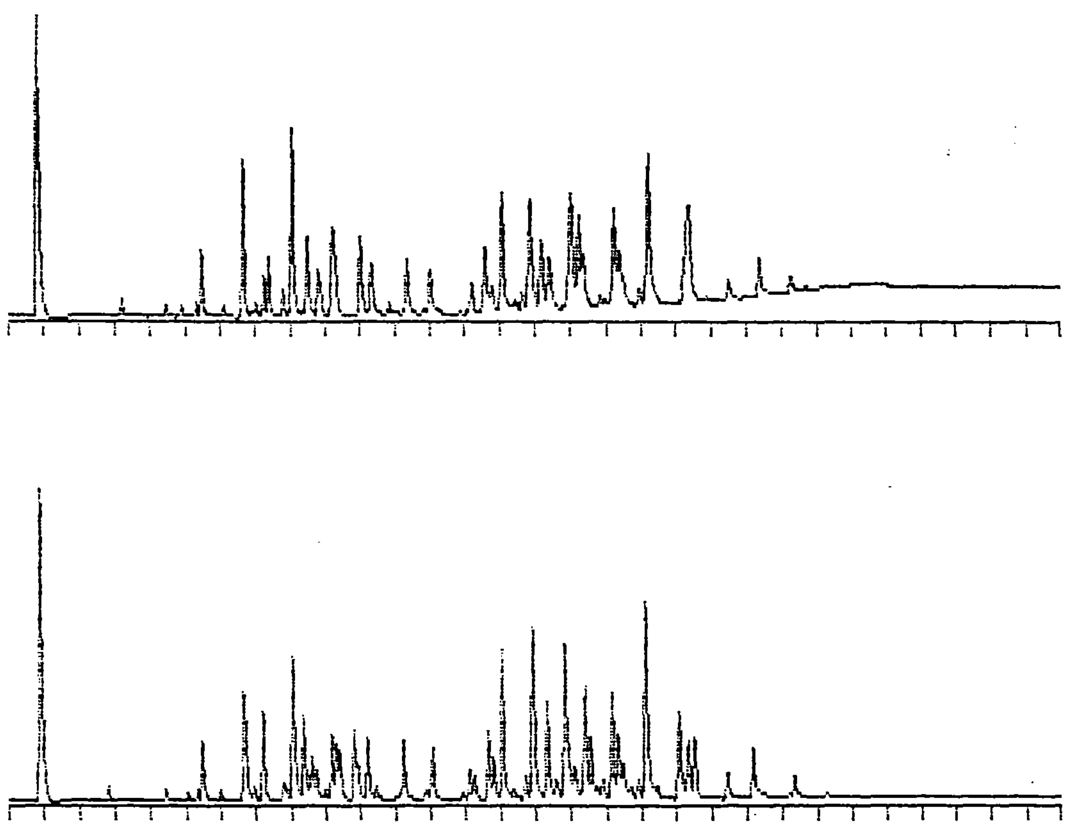
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5890/5II GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 1/10/96 TO: _____
TIME(S) OF ANALYSIS FROM: 2055 TO: _____
DATE OF ANALYSIS 1/22/96
TIME OF ANALYSIS 11:03
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.05	7.98	8.12	148692	8.03	208240	N	40
Aroclor 1221								
Aroclor 1232								
Aroclor 1242								
Aroclor 1248								
Aroclor 1254								
Aroclor 1260	18.21	18.14	18.28	245530	18.19	248596	N	12





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
PCB 1660 1 Processed: 01-22-1996 11:34:06, segment 2, cycle 2
RAW DATA SAVED IN FILE D:JA22D2.PTS Second Channel Stored in D:KA22D2.PTS

***** EXTERNAL STANDARD TABLE *****

******************* 01-22-1996 11:34:53 Version 5.1.5 *******************
* Sample Name: PCB 1660 1PPM   Data File: D:JA22D2 *
* Date: 01-22-1996 11:03:35 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1   Cycle#: 2   Operator PVL Channel#: 0   Vial#: N.A. *
* Starting Peak Width: 10   Threshold: 10 Area Threshold: 1000   *
****
* Instrument Type: Perkin-Elmer 8500   Column Type: RTx-5 30m,.35mm   *
*   Solvent Description: 1.0u df   *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min   *
*   Detector 0:   Detector 1: ECD   *
* Misc. Information: *
****
Starting Delay: 0.00   Ending retention time: 30.00
Area reject: 1000   One sample per   1.002 sec.
Amount injected: 1.00   Dilution factor: 1.00
Sample Weight: 1.00000

1	2.822		0.0000	0.0000%	9227	2606	3.5	1		1.0000E-09
2	4.442		0.0000	0.0000%	9300	2291	4.1	1		1.0000E-09
3	5.060		0.0000	0.0000%	8807	1828	4.8	1		1.0000E-09
4	5.327		0.0000	0.0000%	10722	2447	4.4	2		1.0000E-09
5	5.478	a-BHC	20.4987	6.0332%	56444	11812	4.8	2	0	-1.499	3.6317E-04
6	6.012		0.0000	0.0000%	9364	2225	4.2	1		1.0000E-09
7	6.647		0.0001	0.0000%	144840	22272	6.5	2		1.0000E-09
8	6.964		0.0000	0.0000%	13688	2899	4.7	2		1.0000E-09
9	7.198	d-BHC	41.0867	12.0926%	81250	18085	4.5	2	0	-.1705	5.0568E-04
10	7.782		0.0000	0.0000%	25472	3361	7.6	2			1.0000E-09
11	8.049		0.0002	0.0001%	198004	29823	6.6	2			1.0000E-09
12	8.367		0.0001	0.0000%	91356	17293	5.3	2			1.0000E-09
13	8.600	Heptachlor	15.6468	4.6052%	51133	8533	6.0	2	0	.2389	3.0600E-04
14	8.734		0.0000	0.0000%	28155	5594	5.0	2			1.0000E-09
15	8.985		0.0000	0.0000%	8231	1850	4.4	2			1.0000E-09
16	9.168		0.0001	0.0000%	60164	13391	4.5	2			1.0000E-09
17	9.302		0.0001	0.0000%	54910	11485	4.8	2			1.0000E-09
18	9.402		0.0001	0.0000%	52477	9823	5.3	2			1.0000E-09
19	9.820	Aldrin	14.6838	4.3218%	40054	10280	3.9	1	0	1.757	3.6660E-04
20	10.204		0.0001	0.0000%	69568	12249	5.7	2			1.0000E-09
21	10.471		0.0000	0.0000%	12655	2445	5.2	2			1.0000E-09
22	11.256		0.0001	0.0000%	62204	11690	5.3	1			1.0000E-09
23	11.857	Y-Chlordane	3.8270	1.1264%	11735	1667	7.0	2	0	.5682	3.2611E-04
24	12.041	Endosulfan I	20.6977	6.0918%	60732	10854	5.6	2	0	-.8179	3.4080E-04
25	12.926		0.0000	0.0000%	8705	1631	5.3	2			1.0000E-09
26	13.109	4,4-DDE	10.6502	3.1346%	30303	6193	4.9	2	0	-.5349	3.5145E-04
27	13.260		0.0000	0.0000%	27806	4528	6.1	2			1.0000E-09
28	13.661	Endrin	22.6498	6.6664%	67712	14023	4.8	2	0	-.3675	3.3450E-04
29	13.811		0.0000	0.0000%	45698	8472	5.4	2			1.0000E-09
30	14.061	Endoslf II	59.5299	17.5210%	162349	30124	5.4	2	0	0	3.6668E-04
31	14.395		0.0000	0.0000%	6226	1430	4.4	2			1.0000E-09
32	14.729	Endrin ald	10.1420	2.9850%	23023	4485	5.1	2	0	0	4.4051E-04
33	14.930		0.0002	0.0001%	224952	35340	6.4	2			1.0000E-09
34	15.347		0.0001	0.0000%	103340	19328	5.3	2			1.0000E-09
35	15.598	Endos sulf	8.4259	2.4802%	19545	3193	6.1	2	0	.4365	4.3115E-04
36	15.932	DDT	94.8035	27.9026%	215956	31156	6.9	3	0	.1049	4.3899E-04
37	16.115		0.0000	0.0000%	23403	4624	5.1	4			1.0000E-09
38	16.399		0.0001	0.0000%	107557	21789	4.9	2			1.0000E-09
39	16.566		0.0001	0.0000%	51681	11187	4.6	2			1.0000E-09
40	16.900	Endrin ket.	4.6441	1.3669%	14453	3068	4.7	1	0	-.5858	3.2132E-04
41	17.168		0.0001	0.0000%	113783	21868	5.2	2			1.0000E-09
42	17.335		0.0001	0.0000%	67243	12659	5.3	2			1.0000E-09
43	17.485		0.0000	0.0000%	47469	6980	6.8	2			1.0000E-09
44	17.702		0.0000	0.0000%	13690	2263	6.0	2			1.0000E-09
45	17.919	Methoxychlor	12.4735	3.6712%	20322	3522	5.8	2	0	.2803	6.1330E-04
46	18.119		0.0002	0.0001%	245305	40132	6.1	3			1.0000E-09
47	18.453		0.0000	0.0000%	8675	1672	5.2	4			1.0000E-09
48	19.068		0.0001	0.0000%	120568	17797	6.8	2			1.0000E-09
49	19.355		0.0001	0.0000%	61632	11609	5.3	2			1.0000E-09
50	19.522		0.0001	0.0000%	69214	12182	5.7	2			1.0000E-09
51	20.474		0.0000	0.0000%	28425	4912	5.8	1			1.0000E-09
52	21.175		0.0001	0.0000%	51791	9788	5.3	1			1.0000E-09
53	22.345		0.0000	0.0000%	18878	3738	5.0	1			1.0000E-09

315

681503

TOTAL AMOUNT = 339.7629

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:JA22D2.ATB
Data File = D:JA22D2.PTS Printed on 01-22-1996 at 11:35:14
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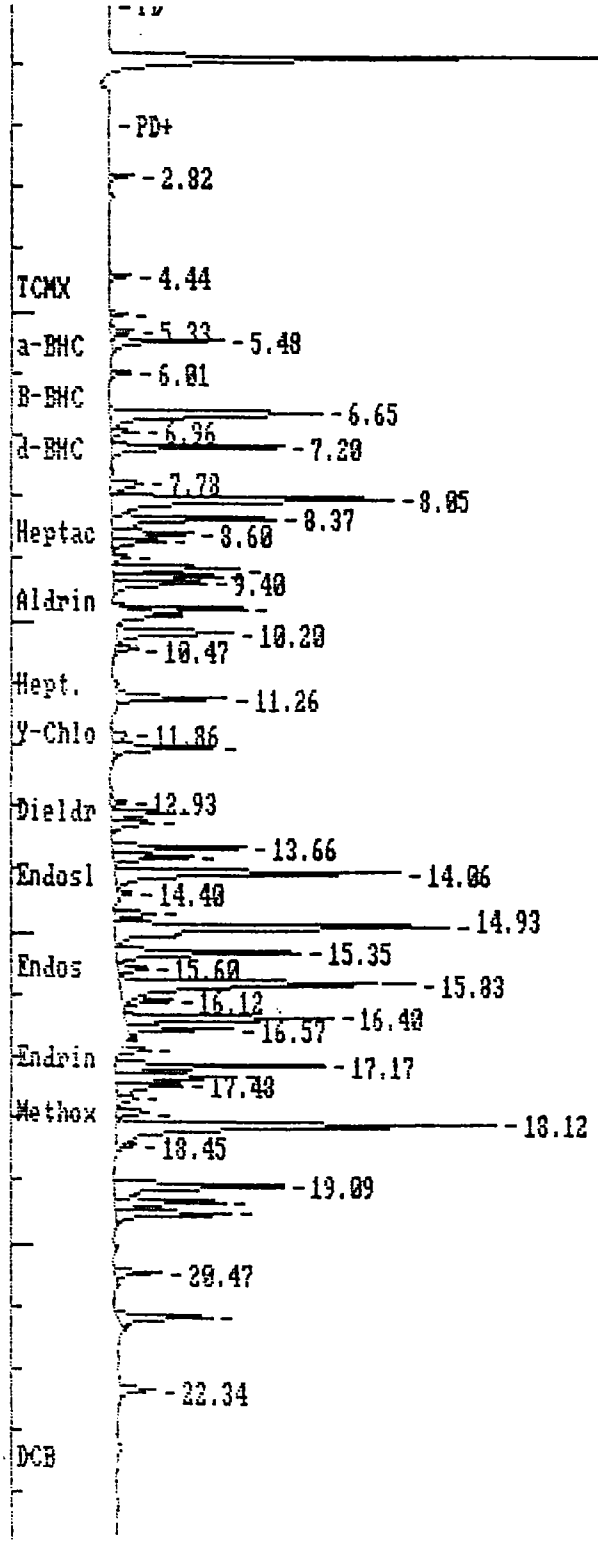
Full Range: 100 millivolts



PD-

***** EXTERNAL STANDARD TABLE *****

********** 01-22-1996 11:35:49 Version 5.1.5 **********

* Sample Name: PCB 1660 1PPM Data File: D:KA22D2 *

* Date: 01-22-1996 11:03:35 Method: M:BPES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 2 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

****

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

****

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

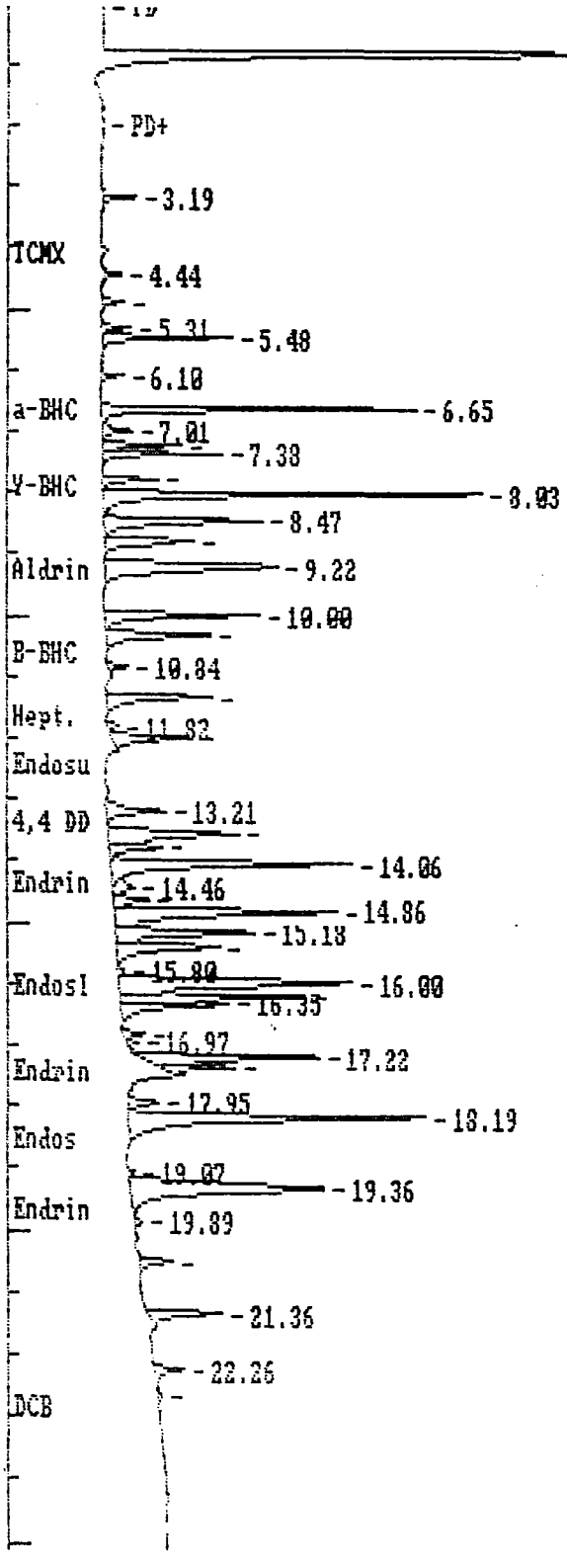
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.190		0.0000	0.0000%	12785	3445	3.7	1			1.0000E-09
2	4.442		0.0000	0.0000%	6963	1814	3.8	1			1.0000E-09
3	4.893		0.0000	0.0000%	9561	2366	4.0	1			1.0000E-09
4	5.311		0.0000	0.0000%	12199	3088	3.9	2			1.0000E-09
5	5.473		0.0001	0.0000%	59257	13582	4.4	2			1.0000E-09
6	6.095		0.0000	0.0000%	9431	2303	4.1	1			1.0000E-09
7	6.647	a-BHC	54.5066	9.4081%	140171	33028	4.2	2	0	.5537	3.8885E-04
8	7.014		0.0000	0.0000%	19131	3119	6.1	2			1.0000E-09
9	7.248		0.0000	0.0000%	35676	8301	4.3	2			1.0000E-09
10	7.381		0.0001	0.0000%	53698	12499	4.3	2			1.0000E-09
11	7.799	Y-BHC	11.4409	1.9747%	30584	5807	5.3	2	0	-.9034	3.7409E-04
12	8.033		0.0002	0.0000%	208240	39912	5.2	2			1.0000E-09
13	8.467	Heptachlor	38.3170	6.6137%	102592	16604	6.2	2	0	.4377	3.7349E-04
14	8.801		0.0001	0.0000%	68756	9474	7.3	2			1.0000E-09
15	9.218	Aldrin	74.4233	12.8458%	175809	18037	9.7	1	0	-.2337	4.2333E-04
16	10.003		0.0001	0.0000%	107994	16271	6.6	2			1.0000E-09
17	10.321		0.0001	0.0000%	76613	10938	7.0	2			1.0000E-09
18	10.838		0.0000	0.0000%	10255	2072	4.9	1			1.0000E-09
19	11.356	d-BHC	36.4288	6.2878%	71461	11172	6.4	1	0	1.392	5.0977E-04
20	11.824	Hept. epox.	2.1837	0.3769%	5399	1100	4.9	1	0	1.752	4.0447E-04
21	12.007		0.0001	0.0000%	54196	8406	6.4	1			1.0000E-09
22	13.210	4,4 DDE	18.1370	3.1305%	41648	6206	6.7	2	0	-1.198	4.3548E-04
23	13.577	Dieldrin	42.3446	7.3952%	111204	13719	8.1	2	0	-.7522	3.8528E-04
24	13.794		0.0000	0.0000%	35306	5564	6.3	2			1.0000E-09
25	14.061		0.0002	0.0000%	171351	25307	6.8	3			1.0000E-09
26	14.462	Endrin	7.8732	1.3590%	19254	2215	8.7	4	0	.9295	4.0892E-04
27	14.663		0.0000	0.0000%	24866	3795	6.6	2			1.0000E-09
28	14.863		0.0002	0.0000%	177006	23309	7.6	2			1.0000E-09
29	15.180		0.0001	0.0000%	100177	14617	6.9	2			1.0000E-09

33	16.232		0.0001	0.0000%	112178	19484	5.8	2		1.0000E-09
34	16.349	4,4 DDT	48.9531	8.4495%	80164	11316	7.1	2	0	-1.308	6.1066E-04
35	16.834		0.0000	0.0000%	11770	2290	5.1	2		1.0000E-09
36	16.967		0.0000	0.0000%	5536	1285	4.3	2		1.0000E-09
37	17.218		0.0001	0.0000%	110666	17923	6.2	2		1.0000E-09
38	17.368	Endrin ald	18.9742	3.2750%	32373	7099	4.6	2	0	-.1839	5.8612E-04
39	17.953		0.0000	0.0000%	22743	3327	6.8	2		1.0000E-09
40	18.186	Endos sulf	126.4972	21.8340%	248596	31336	7.9	2	0	-1.695	5.0885E-04
41	19.071	Methoxychl	2.8313	0.4887%	3315	636	5.2	2	0	1.174	8.5415E-04
42	19.355		0.0002	0.0000%	241919	20337	11.9	2		1.0000E-09
43	19.890	Endrin ket	1.8952	0.3271%	4614	863	5.3	2	0	1.271	4.1071E-04
44	20.524		0.0000	0.0000%	20029	3471	5.8	1		1.0000E-09
45	21.359		0.0000	0.0000%	45092	7739	5.8	1		1.0000E-09
46	22.261		0.0000	0.0000%	16333	3049	5.4	1		1.0000E-09
47	22.695	DCB	0.6754	0.1166%	2210	448	4.9	1	0	-.7204	3.0554E-04

TOTAL AMOUNT = 579.3590

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:KA22D2.ATB
Data File = D:KA22D2.PTS Printed on 01-22-1996 at 11:36:44
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMSL Contract: _____

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

GC Column: DB-5 ID: .32 (mm) Init. Calib. Date(s): 1-22-96 1/23/96

EPA Sample No.(PIBLK): _____ Date Analyzed: _____

LAB Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No.(INDA): Pest Mix A 20 g/L Date Analyzed: 2/2/96

LAB Sample ID (INDA): _____ Time Analyzed: 11:37

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
alpha-BHC	5.14	5.09	5.19	38068	37573	5.14	2
gamma-BHC (Lindane)	6.01	5.96	6.06	40360	41007	6.01	2
Heptachlor	8.10	8.05	8.15	48073	50671	8.10	5
Endosulfan I	11.62	11.55	12.95	46992	48733	11.62	4
Dieldrin	12.49	12.42	12.63	85031	89310	12.49	5
Endrin	13.16	13.09	13.23	72614	77874	13.18	7
4,4'-DDD	14.06	13.99	14.13	53909	63395	14.06	18
4,4'-DDT	15.30	15.23	15.37	47996	58231	15.30	21
Methoxychlor	17.37	17.30	17.44	161499	199366	17.35	23
Tetrachloro-m-xylene	4.19	4.12	4.26	47172	46147	4.19	2
Decachlorobiphenyl	22.85	22.75	22.95	145017	141723	22.86	2

EPA Sample no. (INDB): _____ Date Analyzed: 2/2/96

LAB Sample ID: (INDB): Pest Mix B 20 g/L Time Analyzed: 12:14

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
beta-BHC	5.91	5.86	5.96	27226	29057	5.90	7
delta-BHC	6.76	6.71	6.81	29743	32224	6.75	8
Aldrin	9.15	9.10	9.20	45819	46404	9.15	1
Heptachlor epoxide	10.47	10.40	11.80	50680	54518	10.47	8
4,4'-DDE	12.66	12.59	12.73	68844	83258	12.66	21
Endosulfan II	13.51	13.44	13.58	93516	101004	13.51	8
Endosulfan sulfate	14.98	14.91	15.05	88596	94235	14.90	6
Endrin ketone	16.43	16.36	16.50	91882	105843	16.43	15
Endrin aldehyde	14.18	14.11	14.25	79273	81913	14.18	3
alpha-Chlordane	11.77	11.70	11.84	52757	55072	11.77	4
gamma-Chlorodane	11.26	11.19	11.33	54303	57232	11.26	6
Tetrachloro-m-xylene	4.19	4.12	4.26	49095	48943	4.18	0
Decachlorobiphenyl	22.86	22.76	22.96	150638	148000	22.86	2

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: EMSL Contract: _____

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

GC Column: DB-1701 ID: .32 (mm) Init. Calib. Date(s): 1-22-96 1/23/96

EPA Sample No.(PIBLK): _____ Date Analyzed: _____

LAB Sample ID (PIBLK): _____ Time Analyzed: _____

EPA Sample No.(INDA): Pest Mix A 20ug/L Date Analyzed: 2/2/96

LAB Sample ID (INDA): _____ Time Analyzed: 11:37

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
alpha-BHC	6.13	6.08	6.18	38510	35517	6.13	8
gamma-BHC (Lindane)	7.36	7.31	7.41	39827	37103	7.31	7
Heptachlor	7.92	7.87	7.97	53655	44576	7.92	17
Endosulfan I	11.86	11.79	11.93	45872	45185	11.86	2
Dieldrin	13.09	13.02	13.16	83730	82045	13.09	2
Endrin	13.73	13.66	13.80	68523	67705	13.74	1
4,4'-DDD	15.56	15.49	15.63	52321	49925	15.57	5
4,4'-DDT	16.03	15.96	16.10	45631	48427	16.02	6
Methoxychlor	18.37	18.30	18.44	161809	166150	18.30	3
Tetrachloro-m-xylene	3.71	3.66	3.76	45137	43045	3.69	5
Decachlorobiphenyl	22.28	22.18	22.38	126807	122905	22.28	3

EPA Sample no. (INDB): _____ Date Analyzed: 2/2/96

LAB Sample ID: (INDB): Pest Mix B 20ug/L Time Analyzed: 12:14

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB FACTOR	CALIB FACTOR	RT	%D
beta-BHC	10.05	10.00	10.10	24862	26571	10.04	7
delta-BHC	10.67	10.62	10.77	28737	30256	10.67	5
Aldrin	8.70	8.65	8.75	44353	43051	8.70	3
Heptachlor epoxide	11.06	10.99	11.13	50299	51023	11.07	1
4,4'-DDE	12.84	12.77	12.91	65918	72876	12.84	11
Endosulfan II	15.45	15.38	15.52	86329	88373	15.45	2
Endosulfan sulfate	17.92	17.85	17.99	77637	78162	17.90	1
Endrin ketone	19.05	18.98	19.12	81669	84990	19.04	4
Endrin aldehyde	16.82	16.75	16.89	66510	58707	16.80	12
alpha-Chlordane	12.40	12.33	12.47	50580	51719	12.42	2
gamma-Chlorodane	12.14	12.07	12.21	53687	55440	12.16	3
Tetrachloro-m-xylene	3.71	3.66	3.76	46985	46531	3.69	1
Decachlorobiphenyl	22.29	22.19	22.39	130702	129184	22.28	1

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

9

Lab Name: EMSL Analytical Contract:

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

Instrument ID: HP5890/II GC Column ID: DB-5

	DATE(S) OF ANALYSIS	FROM: 1/23/96 TO:		DATE OF ANALYSIS	2/2/96				
	TIME(S) OF ANALYSIS	FROM: 12:57 TO:		TIME OF ANALYSIS	12:48				
				EPA SAMPLE NO. (STANDARD)					
COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	11.26	11.19	11.33	294077	11.26	300135	N	2
a-chlordane	11.76	11.69	11.83	258122	11.77	271115	N	6

9

Lab Name: EMSL Analytical Contract:

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

Instrument ID: HP5890 SII GC Column ID: DB-1701

	DATE(S) OF ANALYSIS	FROM: 1/23/96 TO:		DATE OF ANALYSIS	2/2/96				
	TIME(S) OF ANALYSIS	FROM: 12:57 TO:		TIME OF ANALYSIS	12:48				
				EPA SAMPLE NO. (STANDARD)					
COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	12.14	12.07	12.21	244757	12.16	249442	N	2
a-chlordane	12.41	12.34	12.48	201824	12.42	204396	N	1

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-5

DATE(S) OF ANALYSIS FROM: 1/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: [illegible] TO: _____
DATE OF ANALYSIS 2/2/96
TIME OF ANALYSIS 13:22
EPA SAMPLE NO. (STANDARD) [redacted]

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Toxaphene	16.33	16.26	16.40	220241	16.35	257780	N	17

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890 SII GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 1/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: 3:31 TO: _____
DATE OF ANALYSIS 2/2/96
TIME OF ANALYSIS 13:22
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Toxaphene	16.77	16.70	16.84	241838	16.77	248982	N	3

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-5

DATE(S) OF ANALYSIS FROM: 11/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: 2:57 TO: _____
DATE OF ANALYSIS 2/2/96
TIME OF ANALYSIS 20:11
EPA SAMPLE NO. (STANDARD) [redacted]

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	11.26	11.19	11.33	294077	11.26	313878	N	7
a-chlordane	11.76	11.69	11.83	256122	11.77	283977	N	11

9

Lab Name: EMSL Analytical Contract: _____

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

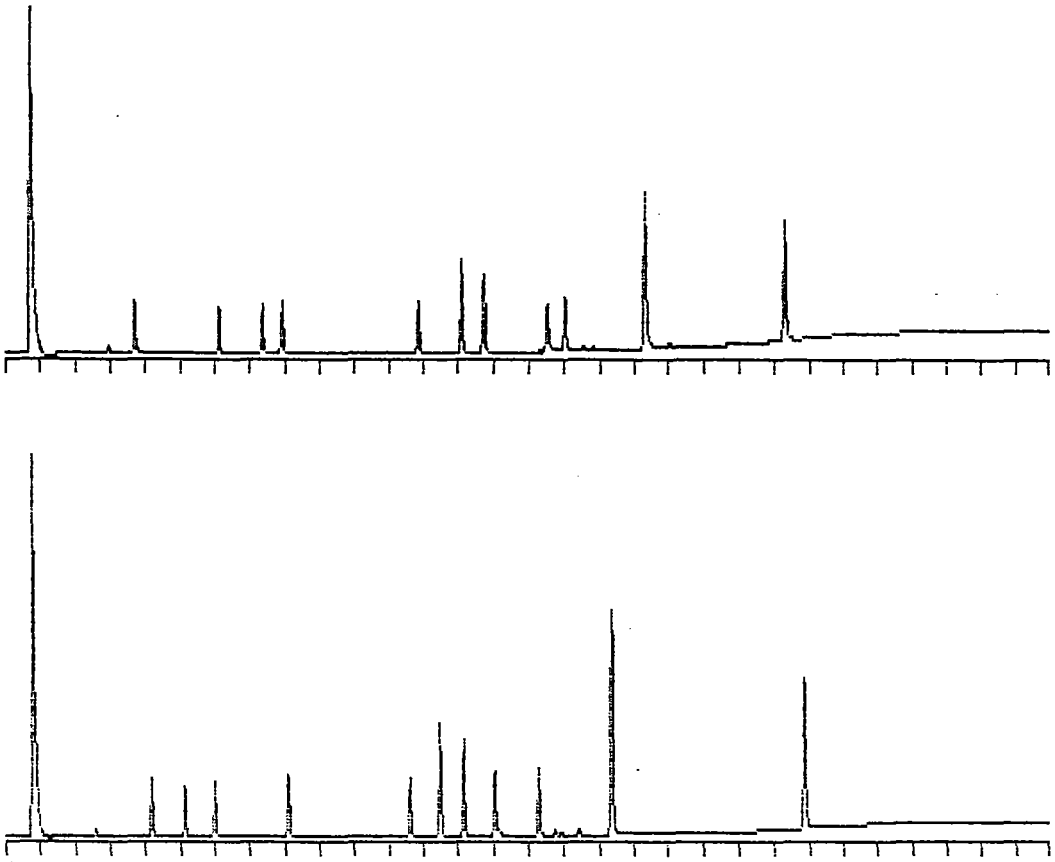
Instrument ID: HP5890 SII GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 11/23/96 TO: _____
TIME(S) OF ANALYSIS FROM: 12:57 TO: _____
DATE OF ANALYSIS 2/2/96
TIME OF ANALYSIS 20:11
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	12.14	12.07	12.21	244757	12.14	259390	N	6
a-chlordane	12.41	12.34	12.48	201824	12.41	214153	N	6

PD-

SEQUENCE RECORDED IN D:FB02D.SEQ



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
Processed: 02-02-1996 12:08:04, segment 13, cycle 13
RAW DATA SAVED IN FILE D:FB01D13.PTS Second Channel Stored in D:GB01D13.PTS

***** EXTERNAL STANDARD TABLE *****

******************** 02-02-1996 12:08:56 Version 5.1.5 ********************

* Sample Name: Test mix A 20 Data File: D:FB01D13 *

* Date: 02-02-1996 11:37:38 Method: M:APES-H 01-24-1996 09:29:21 # 377 *

* Interface: 1 Cycle#: 13 Operator PVL Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 1000 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT RI	REF PEAK	% DELTA RET TIME	% DELTA AREA

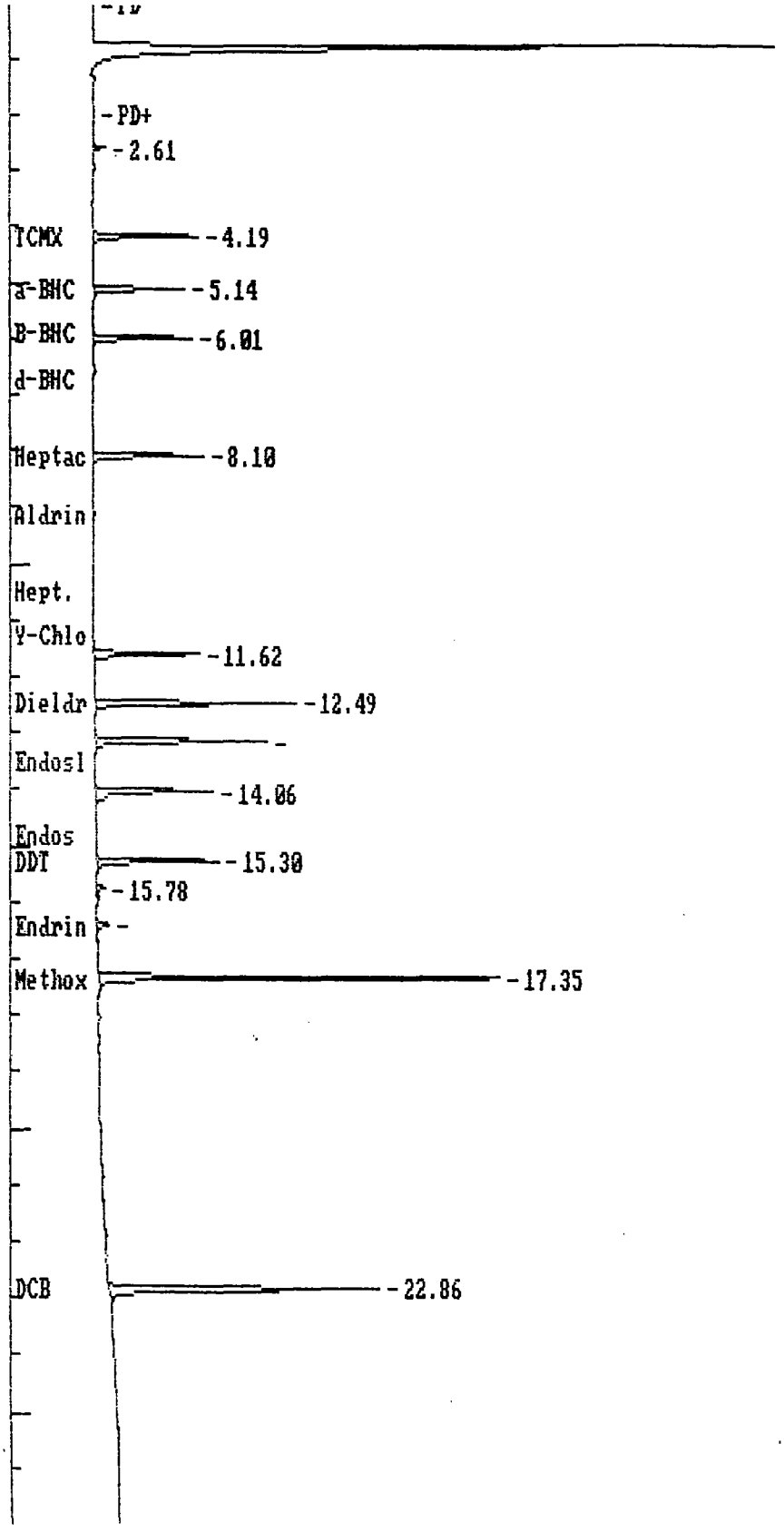
2	4.192	TCMX	18.3966	5.2632%	46147	12030	3.8	1	0	0	3.9865E-04
3	5.144	a-BHC	13.6235	3.8976%	37513	10512	3.6	1	0	0	3.6317E-04
4	6.012	Y-BHC	14.0696	4.0253%	41007	11349	3.6	1	0	0	3.4310E-04
5	8.099	Heptachlor	15.5054	4.4361%	50671	12725	4.0	1	0	0	3.0600E-04
6	11.623	Endosulfan I	16.6085	4.7516%	48733	12110	4.0	1	0	0	3.4080E-04
7	12.492	Dieldrin	28.2834	8.0918%	89310	23138	3.9	1	0	0	3.1669E-04
8	13.176	Endrin	26.0491	7.4526%	77874	19803	3.9	1	0	.1238	3.3450E-04
9	14.061	4'4-DDD	35.1031	10.0429%	63395	13503	4.7	1	0	0	5.5372E-04
10	15.297	DDT	25.5632	7.3136%	58231	13944	4.2	1	0	-.0183	4.3899E-04
11	15.781		0.0000	0.0000%	3988	907	4.4	1			1.0000E-09
12	16.433	Endrin ket.	2.0667	0.5913%	6432	1393	4.6	1	0	0	3.2132E-04
13	17.351	Methoxychlor	122.3710	35.0100%	199366	46595	4.3	1	0	-.1076	6.1380E-04
14	22.862	DCB	31.8911	9.1240%	141723	31257	4.5	1	0	0	2.2502E-04

326

TOTAL AMOUNT = 349.5312

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:FB01D13.ATB
Data File = D:FB01D13.PTS Printed on 02-02-1996 at 12:09:15
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



-PD-

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 12:09:32 Version 5.1.5 **********

* Sample Name: Pest Mix A 20 Data File: D:GB01D13 *

* Date: 02-02-1996 11:37:38 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 13 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

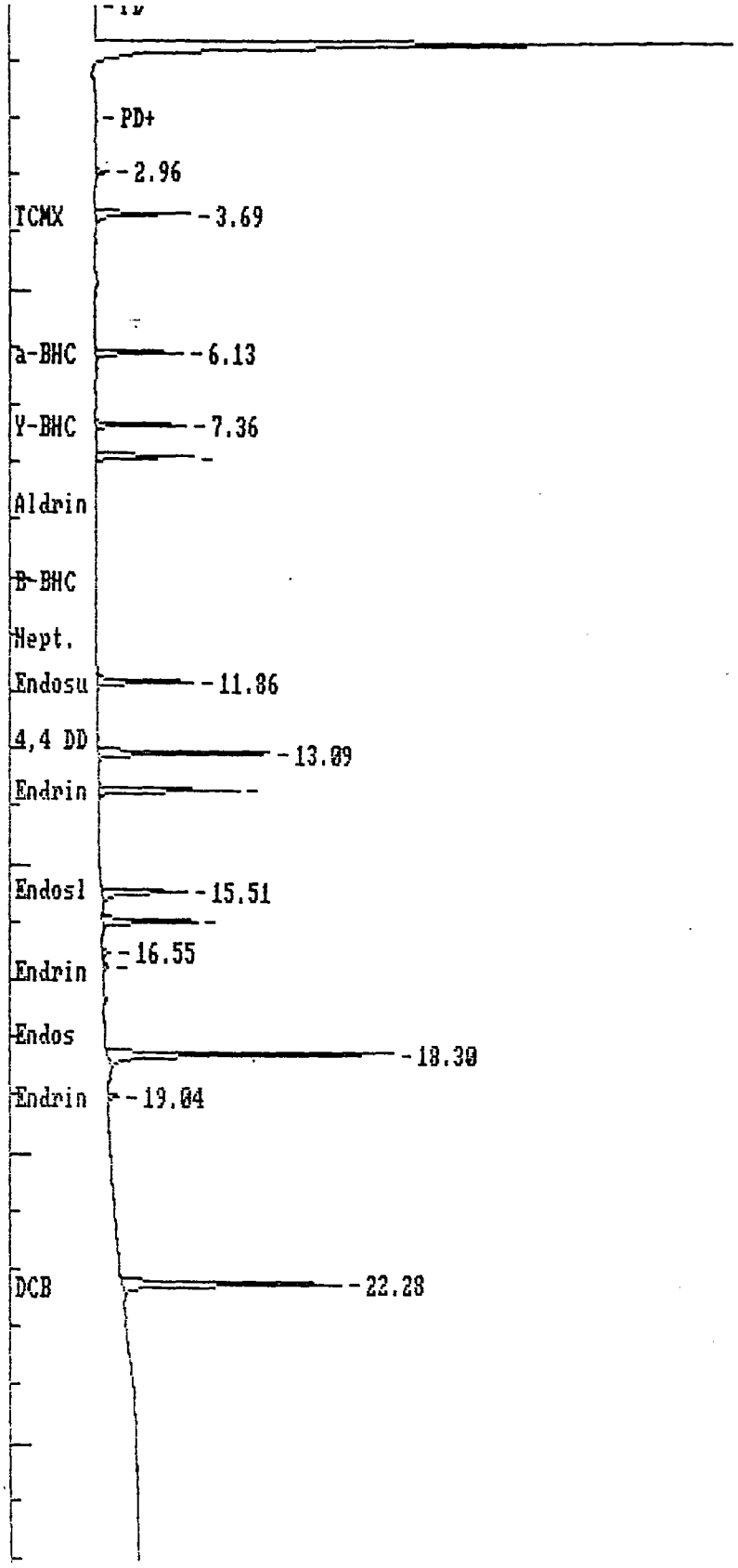
Sample Weight: 1.00000

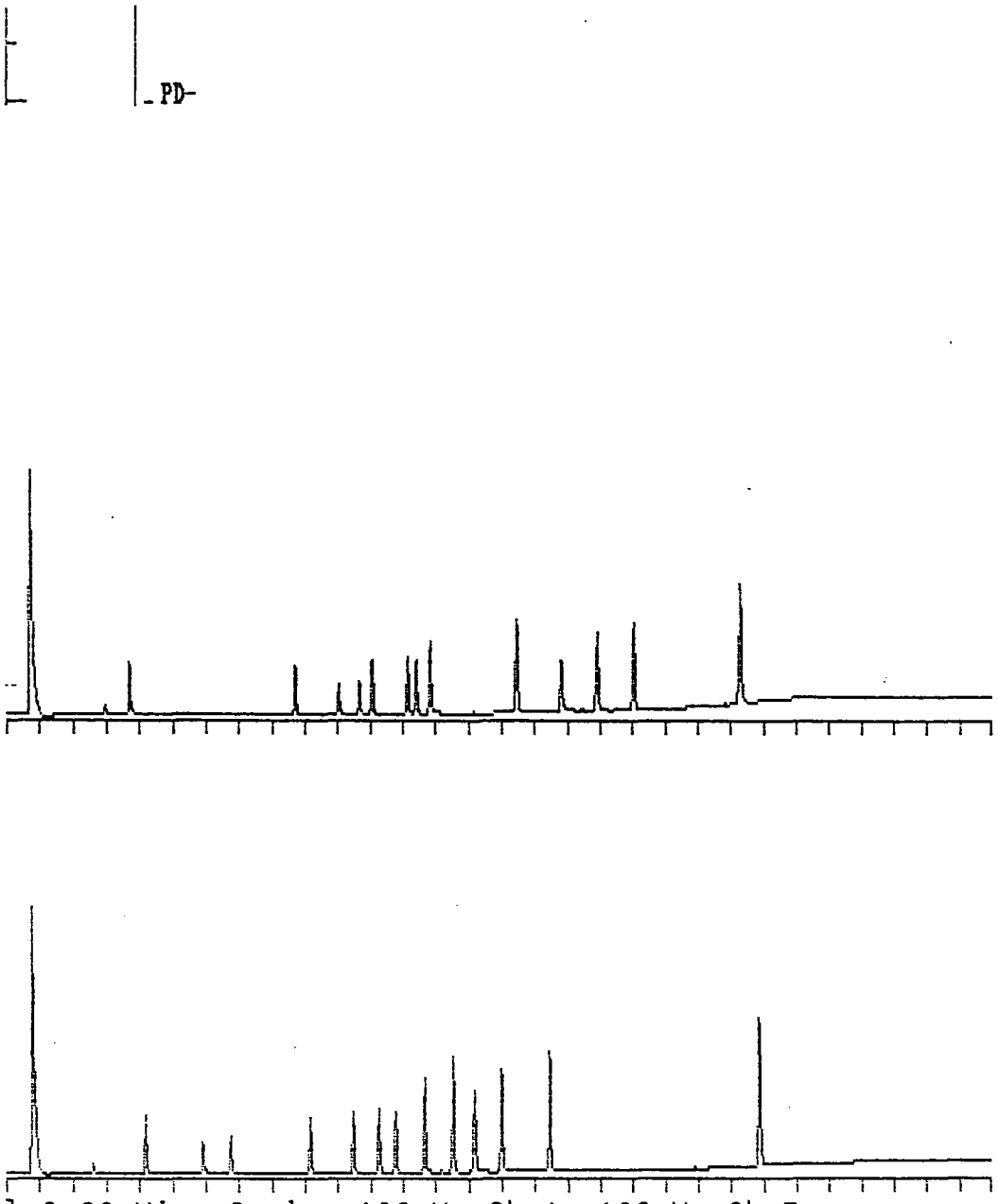
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.956		0.0000	0.0000%	6212	1478	4.2	1			1.0000E-09
2	3.691	TCMX	18.8243	4.9053%	43045	10773	4.0	1	0	-.5202	4.3731E-04
3	6.129	a-BHC	13.8111	3.5989%	35517	9903	3.6	1	0	0	3.8886E-04
4	7.365	Y-BHC	13.8797	3.6168%	37103	10198	3.6	1	0	0	3.7409E-04
5	7.916	Heptachlor	16.6261	4.3325%	44516	11106	4.0	1	0	0	3.7349E-04
6	11.857	Endosulf I	17.1827	4.4775%	45185	10897	4.1	1	0	0	3.8028E-04
7	13.093	Dieldrin	31.6101	8.2370%	82045	19437	4.2	1	0	.0213	3.8528E-04
8	13.744	Endrin	27.6858	7.2144%	67705	15933	4.2	1	0	.1245	4.0892E-04
9	15.514	4'4-DDD	31.3900	8.1797%	49925	9628	5.2	1	0	-.2937	6.2874E-04
10	16.015	4,4 DDT	29.5723	7.7060%	48427	10667	4.5	1	0	-.1041	6.1066E-04
11	16.550		0.0000	0.0000%	3667	857	4.3	1			1.0000E-09
12	16.817	Endrin ald	1.5017	0.3913%	2562	553	4.6	1	0	0	5.8612E-04
13	18.303	Methoxychl	141.9177	36.9813%	166150	32702	5.1	1	0	-.3636	8.5415E-04
14	19.038	Endrin ket	2.2009	0.5735%	5359	1174	4.6	1	0	0	4.1071E-04
15	22.278	DCB	37.5529	9.7856%	122905	25015	4.9	1	0	0	3.0554E-04

TOTAL AMOUNT = 383.7553

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:GB01D13.ATB
Data File = D:GB01D13.PTS Printed on 02-02-1996 at 12:09:50
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
PEST MIX B Processed: 02-02-1996 12:45:07, segment 1, cycle 5
RAW DATA SAVED IN FILE D:FB02D5.PTS Second Channel Stored in D:GB02D5.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 12:45:59 Version 5.1.5 **********

* Sample Name: PEST MIX B 20 Data File: D:FB02D5 *
* Date: 02-02-1996 12:14:34 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 5 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

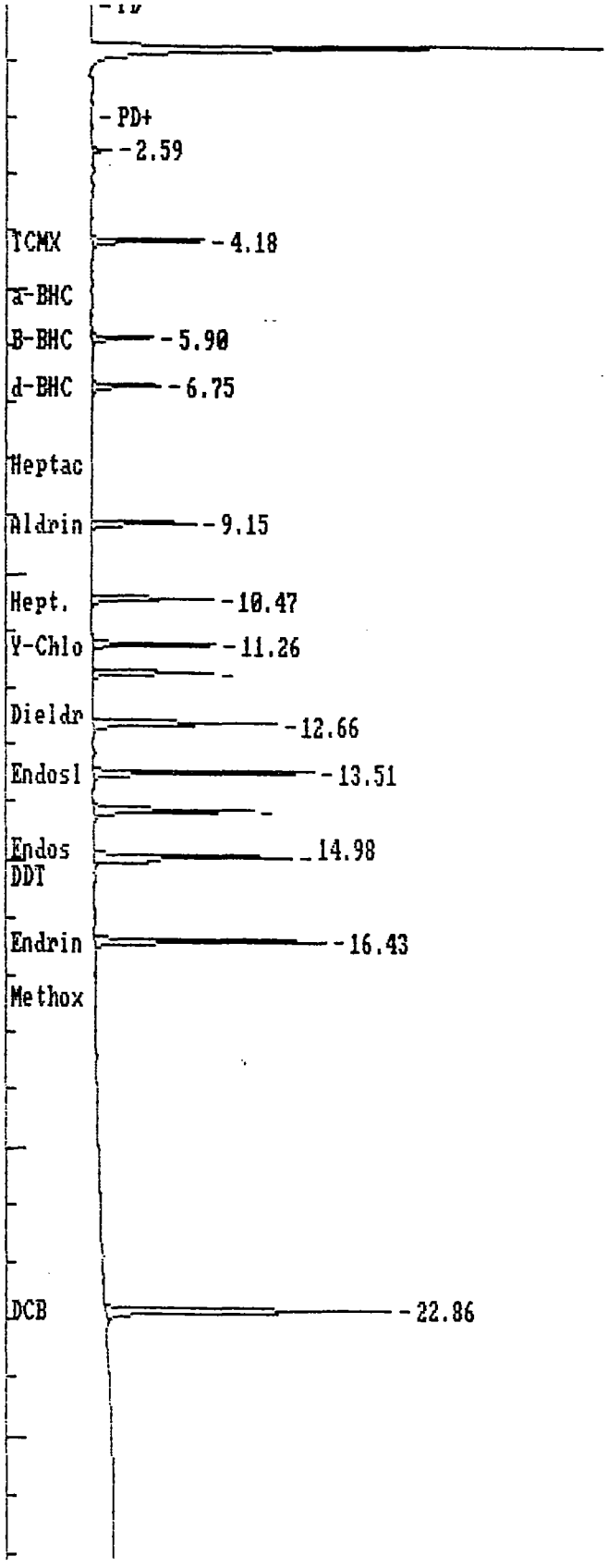
3	5.895	B-BHC	18.7357	5.5441%	29057	6943	4.2	1	0	-.2521	6.4478E-04
4	6.747	d-BHC	16.2950	4.8219%	32224	7748	4.2	1	0	-.1952	5.0568E-04
5	9.152	Aldrin	17.0117	5.0340%	46404	11798	3.9	1	0	0	3.6660E-04
6	10.471	Hept. epox.	19.5768	5.7930%	54518	13679	4.0	1	0	0	3.5909E-04
7	11.256	Y-Chlordane	18.6638	5.5228%	57232	13837	4.1	1	0	0	3.2611E-04
8	11.773	a-Chlordane	17.8201	5.2732%	55072	13601	4.0	1	0	0	3.2358E-04
9	12.659	4,4-DDE	29.2614	8.6588%	83258	20745	4.0	1	0	-.0110	3.5145E-04
10	13.510	Endoslf II	37.0358	10.9594%	101004	24955	4.0	1	0	0	3.6668E-04
11	14.178	Endrin ald	36.0837	10.6776%	81913	17969	4.6	1	0	0	4.4051E-04
12	14.980	Endos sulf	40.6296	12.0228%	94235	22333	4.2	1	0	0	4.3115E-04
13	16.433	Endrin ket.	34.0100	10.0640%	105843	26154	4.0	1	0	0	3.2132E-04
14	22.862	DCB	33.3036	9.8549%	148000	32588	4.5	1	0	0	2.2502E-04

331

TOTAL AMOUNT = 337.9383

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:FB02D5.ATB
Data File = D:FB02D5.PTS Printed on 02-02-1996 at 12:46:18
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 12:46:35 Version 5.1.5 **********

* Sample Name: PEST MIX B 20 Data File: D:GB02D5 *

* Date: 02-02-1996 12:14:34 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 5 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

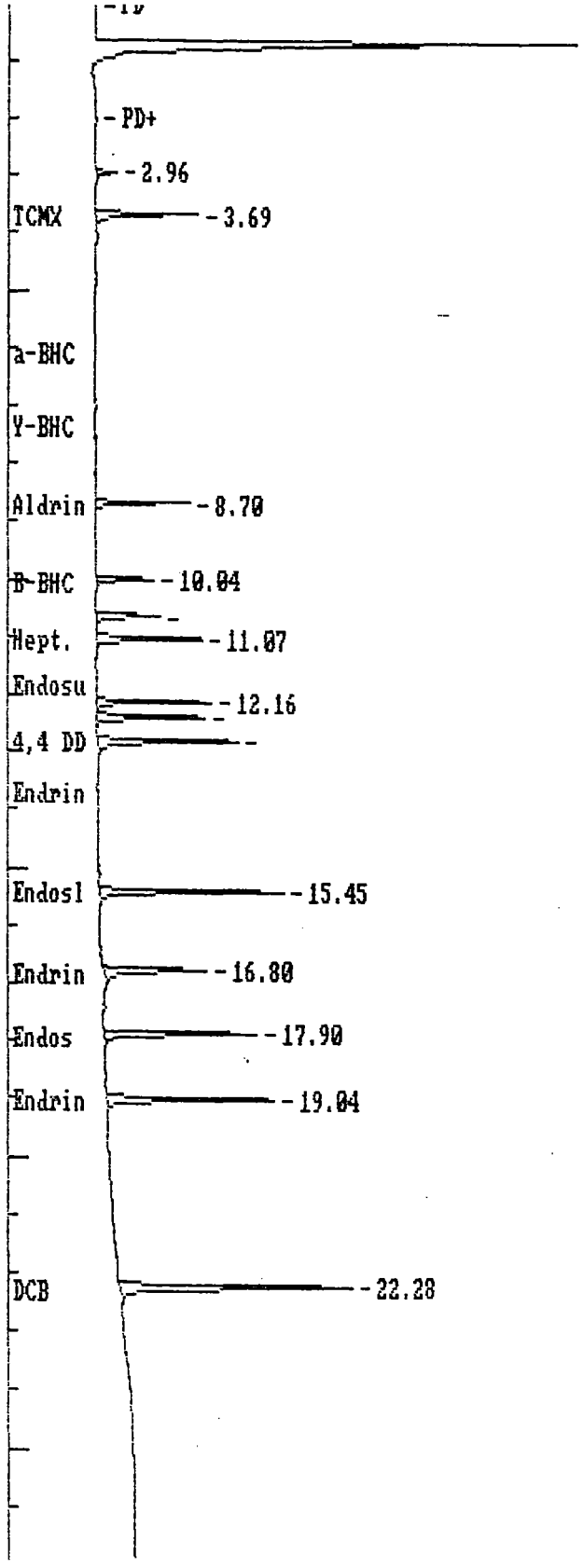
Sample Weight: 1.00000

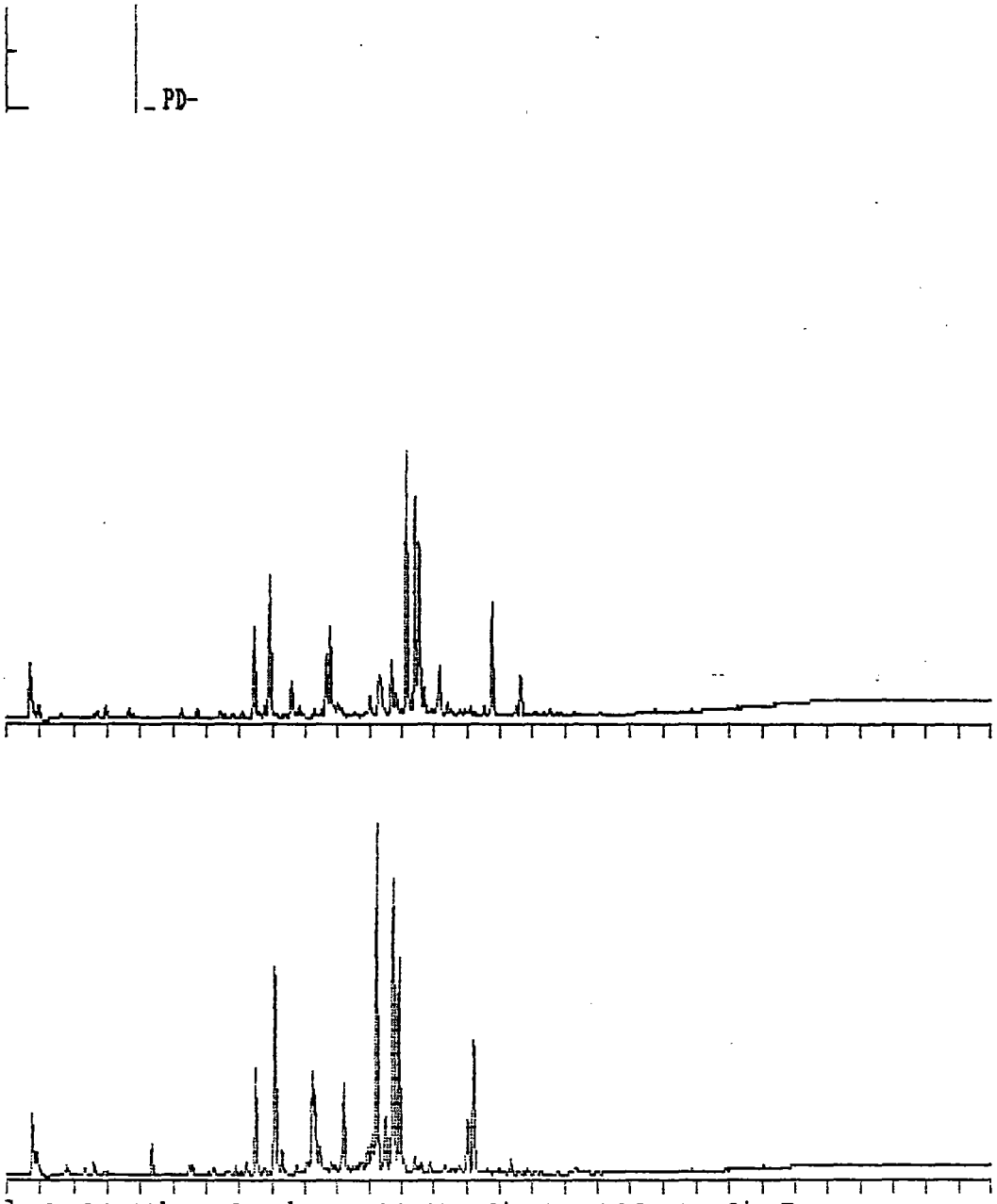
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.956		0.0000	0.0000%	9847	2306	4.3	1			1.0000E-09
2	3.691	TCMX	20.3486	5.7999%	46531	11516	4.0	1	0	-.5202	4.3731E-04
3	8.701	Aldrin	18.2243	5.1944%	43051	10639	4.0	1	0	0	4.2332E-04
4	10.037	B-BHC	17.2494	4.9165%	26571	6508	4.1	1	0	-.1323	6.4918E-04
5	10.671	d-BHC	15.4239	4.3962%	30256	7211	4.2	1	0	0	5.0977E-04
6	11.072	Hept. epox.	20.6374	5.8822%	51023	11842	4.3	1	0	.1094	4.0447E-04
7	12.158	Y-Chlordane	20.8914	5.9546%	55440	12991	4.3	2	0	.1449	3.7683E-04
8	12.425	a-Chlordane	19.5332	5.5675%	51719	12195	4.2	2	0	.1999	3.7768E-04
9	12.842	4,4 DDE	31.7366	9.0458%	72876	15785	4.6	1	0	0	4.3548E-04
10	15.447	EndoslfII	38.2388	10.8991%	88373	20728	4.3	1	0	0	4.3270E-04
11	16.800	Endrin ald	34.4093	9.8076%	58707	11666	5.0	1	0	-.1177	5.8612E-04
12	17.902	Endos sulf	39.7724	11.3362%	78162	17239	4.5	1	0	0	5.0885E-04
13	19.038	Endrin ket	34.9065	9.9493%	84990	18916	4.5	1	0	0	4.1071E-04
14	22.278	DCB	39.4715	11.2505%	129184	26326	4.9	1	0	0	3.0554E-04

TOTAL AMOUNT = 350.8432

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:GB02D5.ATB
Data File = D:GB02D5.PTS Printed on 02-02-1996 at 12:46:54
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts





[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
CHLORDANE Processed: 02-02-1996 13:19:14, segment 2, cycle 6
RAW DATA SAVED IN FILE D:FB02D6.PTS Second Channel Stored in D:GB02D6.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 13:20:06 Version 5.1.5 **********
* Sample Name: CHLORDANE 1PPM Data File: D:FB02D6 *
* Date: 02-02-1996 12:48:41 Method: M:APES-H 01-24-1996 09:29:21 # .377 *
* Interface: 1 Cycle#: 6 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

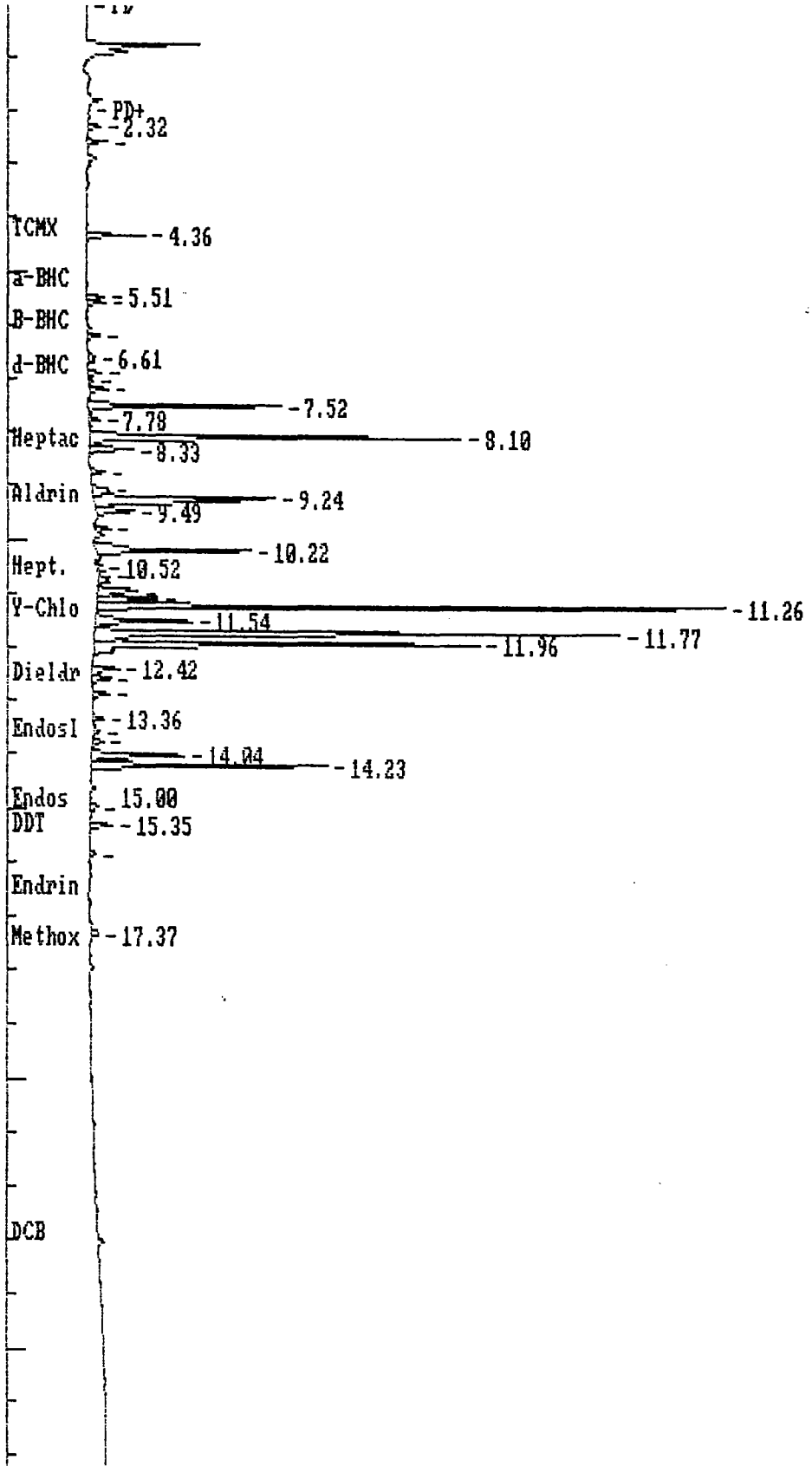
3	4.359		0.0000	0.0000%	26383	7140	3.7	1			1.0000E-09
4	5.511		0.0000	0.0000%	8338	2204	3.8	2			1.0000E-09
5	5.594		0.0000	0.0000%	9219	2287	4.0	2			1.0000E-09
6	6.212		0.0000	0.0000%	6657	1539	4.3	1			1.0000E-09
7	6.613		0.0000	0.0000%	7105	907	7.8	1			1.0000E-09
8	6.914		0.0000	0.0000%	7162	1757	4.1	1			1.0000E-09
9	7.064		0.0000	0.0000%	2413	610	4.0	1			1.0000E-09
10	7.214		0.0000	0.0000%	9491	2348	4.0	1			1.0000E-09
11	7.515		0.0001	0.0000%	88367	23594	3.7	2			1.0000E-09
12	7.782		0.0000	0.0000%	6594	1346	4.9	2			1.0000E-09
13	8.099	Heptachlor	54.5257	14.6856%	178188	45337	3.9	2	0	0	3.0600E-04
14	8.333		0.0000	0.0000%	24783	5420	4.6	2			1.0000E-09
15	8.767		0.0000	0.0000%	7619	1777	4.3	1			1.0000E-09
16	9.085	Aldrin	6.0321	1.6247%	16454	2112	7.8	2	0	-.7125	3.6660E-04
17	9.235		0.0002	0.0000%	154877	22265	7.0	2			1.0000E-09
18	9.486		0.0000	0.0000%	24314	4669	5.2	2			1.0000E-09
19	9.820		0.0000	0.0000%	6409	1775	3.6	1			1.0000E-09
20	10.220		0.0001	0.0000%	85587	18931	4.5	1			1.0000E-09
21	10.521	Hept. epox.	1.0082	0.2715%	2808	799	3.5	1	0	.4871	3.5909E-04
22	10.721		0.0000	0.0000%	11174	1459	7.7	2			1.0000E-09
23	10.989		0.0000	0.0000%	28718	5000	5.7	2			1.0000E-09
24	11.105		0.0000	0.0000%	36706	7457	4.9	2			1.0000E-09
25	11.256	Y-Chlordane	97.8761	26.3613%	300135	76357	3.9	2	0	0	3.2611E-04
26	11.540	Endosulfan I	18.6988	5.0362%	54867	11911	4.6	2	0	-.6910	3.4080E-04
27	11.773	a-Chlordane	87.7272	23.6279%	271115	64009	4.2	2	0	0	3.2358E-04
28	11.957		0.0002	0.0001%	198566	47088	4.2	2			1.0000E-09
29	12.425	Dieldrin	4.6982	1.2654%	14835	3317	4.5	2	0	-.5220	3.1669E-04
30	12.625	4,4-DDE	4.4887	1.2090%	12772	2276	5.6	2	0	-.2748	3.5145E-04
31	12.892		0.0000	0.0000%	8339	2054	4.1	1			1.0000E-09
32	13.360	Endrin	1.8465	0.4973%	5520	1325	4.2	1	0	1.519	3.3450E-04
33	13.594	Endoslf II	1.2683	0.3416%	3459	772	4.5	1	0	.6202	3.6668E-04
34	13.794		0.0000	0.0000%	8734	1434	6.1	1			1.0000E-09
35	14.045	4'4-DDD	30.6559	8.2567%	55364	11436	4.8	2	0	-.1088	5.5372E-04
36	14.228	Endrin ald	50.8185	13.6871%	115362	28987	4.0	2	0	.3554	4.4051E-04
37	14.997	Endos sulf	1.9069	0.5136%	4423	897	4.9	1	0	.1108	4.3115E-04
38	15.347	DDT	5.5446	1.4933%	12630	2873	4.4	1	0	.3091	4.3899E-04
39	15.882		0.0000	0.0000%	3781	809	4.7	1			1.0000E-09
40	17.368	Methoxychlor	4.1905	1.1286%	6827	963	7.1	1	0	0	6.1380E-04

TOTAL AMOUNT = 371.2871

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

336

Areas, times, and heights stored in: D:FB02D6.ATB
Data File = D:FB02D6.PTS Printed on 02-02-1996 at 13:20:28
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 13:20:46 Version 5.1.5 **********

* Sample Name: CHLORDANE 1PPM Data File: D:GB02D6 *

* Date: 02-02-1996 12:48:41 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 6 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

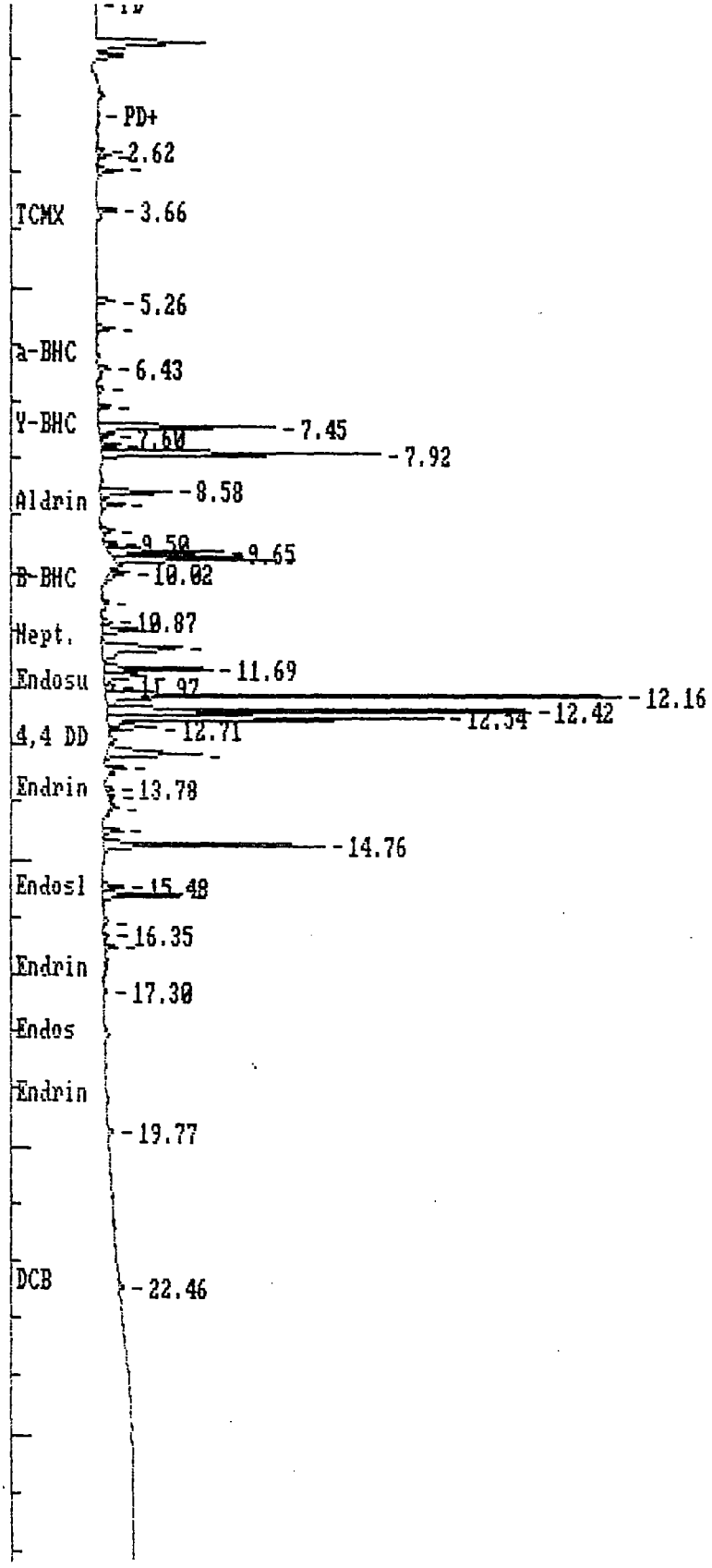
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.622		0.0000	0.0000%	2630	769	3.4	2			1.0000E-09
2	2.705		0.0000	0.0000%	6710	1550	4.3	2			1.0000E-09
3	2.956		0.0000	0.0000%	12247	2818	4.3	1			1.0000E-09
4	3.657	TCMX	3.3478	0.9090%	7655	2076	3.7	1	0	-1.420	4.3731E-04
5	5.261		0.0000	0.0000%	8776	2139	4.1	1			1.0000E-09
6	5.728		0.0000	0.0000%	8679	2052	4.2	1			1.0000E-09
7	6.429		0.0000	0.0000%	6433	1458	4.4	1			1.0000E-09
8	6.814		0.0000	0.0000%	4163	866	4.8	1			1.0000E-09
9	7.097		0.0000	0.0000%	5612	1420	4.0	1			1.0000E-09
10	7.448	Y-BHC	31.0749	8.4378%	83069	20190	4.1	3	0	1.198	3.7409E-04
11	7.598		0.0000	0.0000%	5527	1293	4.3	4			1.0000E-09
12	7.766		0.0000	0.0000%	8726	2275	3.8	2			1.0000E-09
13	7.916	Heptachlor	45.7519	12.4230%	122499	31913	3.8	2	0	0	3.7349E-04
14	8.584	Aldrin	15.8921	4.3152%	37542	8136	4.6	2	0	-1.335	4.2332E-04
15	8.818		0.0000	0.0000%	12284	2670	4.6	2			1.0000E-09
16	9.268		0.0000	0.0000%	5528	1363	4.1	1			1.0000E-09
17	9.502		0.0000	0.0000%	6154	1564	3.9	1			1.0000E-09
18	9.653		0.0001	0.0000%	50857	12939	3.9	2			1.0000E-09
19	9.769		0.0001	0.0000%	71001	18371	3.9	2			1.0000E-09
20	10.020	B-BHC	9.9439	2.7001%	15318	2432	6.3	1	0	-.2985	6.4918E-04
21	10.538	d-BHC	1.4915	0.4050%	2926	550	5.3	1	0	-1.239	5.0977E-04
22	10.872		0.0000	0.0000%	5329	1146	4.6	2			1.0000E-09
23	11.022	Hept. epox.	9.3692	2.5440%	23164	4432	5.2	2	0	-.3435	4.0447E-04
24	11.306		0.0001	0.0000%	82134	9273	8.9	2			1.0000E-09
25	11.690		0.0001	0.0000%	53878	12359	4.4	2			1.0000E-09
26	11.824	Endosulf I	9.9166	2.6927%	26077	4857	5.4	2	0	-.3069	3.8028E-04
27	11.974		0.0000	0.0000%	6389	1136	5.6	2			1.0000E-09
28	12.158	Y-Chlordane	93.9965	25.5228%	249442	58959	4.2	2	0	.1449	3.7683E-04
29	12.425	a-Chlordane	77.1968	20.9612%	204396	48435	4.2	2	0	.1999	3.7768E-04
30	12.542		0.0002	0.0000%	158693	38343	4.1	2			1.0000E-09
31	12.709	4,4 DDE	9.2425	2.5096%	21224	5596	3.8	2	0	-1.022	4.3548E-04
32	13.176	Dieldrin	21.5169	5.8425%	55848	10900	5.1	1	0	.6592	3.8528E-04
33	13.410		0.0000	0.0000%	8414	2203	3.8	1			1.0000E-09
34	13.777	Endrin									

36	14.111	0.0000	0.0000%	4107	1190	3.5	1			1.0000E-09
37	14.512	0.0000	0.0000%	10717	2364	4.5	2			1.0000E-09
38	14.763	0.0001	0.0000%	106367	25139	4.2	2			1.0000E-09
39	15.481 EndoslfII	5.2980	1.4386%	12244	2493	4.9	2	0	.2000	4.3270E-04
40	15.631 4'4-DDD	25.2404	6.8535%	40144	9038	4.4	2	0	.4575	6.2874E-04
41	16.099 4,4 DDT	2.1912	0.5950%	3588	617	5.8	1	0	.4166	6.1066E-04
42	16.349	0.0000	0.0000%	2801	687	4.1	2			1.0000E-09
43	16.533 Endrin ald	4.1046	1.1145%	7003	1434	4.9	2	0	-1.706	5.8612E-04
44	17.301	0.0000	0.0000%	2231	486	4.6	1			1.0000E-09
45	19.773	0.0000	0.0000%	2973	617	4.8	1			1.0000E-09
46	22.461 OC8	0.8848	0.2402%	2896	589	4.9	1	0	.7693	3.0554E-04

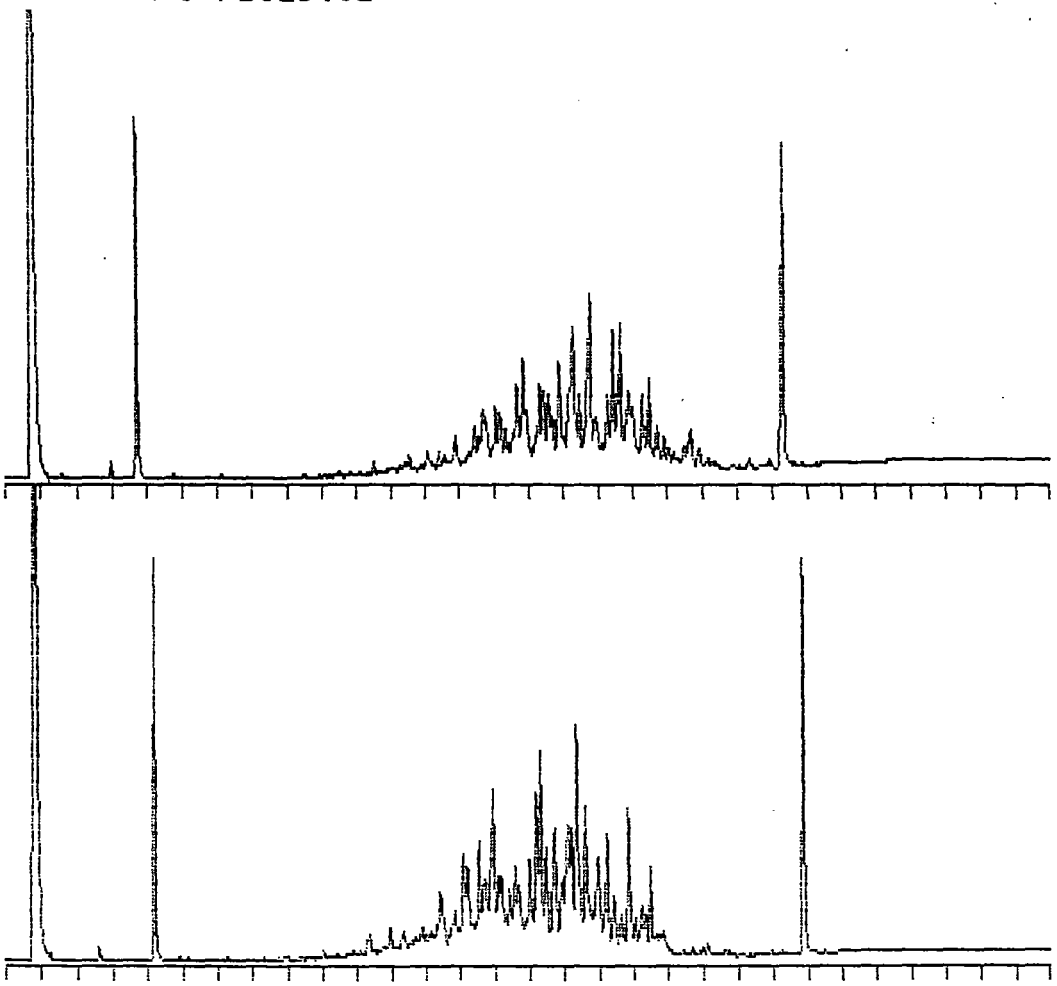
TOTAL AMOUNT = 368.2839

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:GB02D6.ATB
Data File = D:GB02D6.PTS Printed on 02-02-1996 at 13:21:39
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



SEQUENCE RECORDED IN D:FB02D.SEQ



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
TOX 2.5 PP Processed: 02-02-1996 13:53:17, segment 3, cycle 7
RAW DATA SAVED IN FILE D:FB02D7.PTS Second Channel Stored in D:GB02D7.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 13:54:09 Version 5.1.5 **********
* Sample Name: TOX 2.5 PPM Data File: D:FB02D7 *
* Date: 02-02-1996 13:22:42 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 7 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

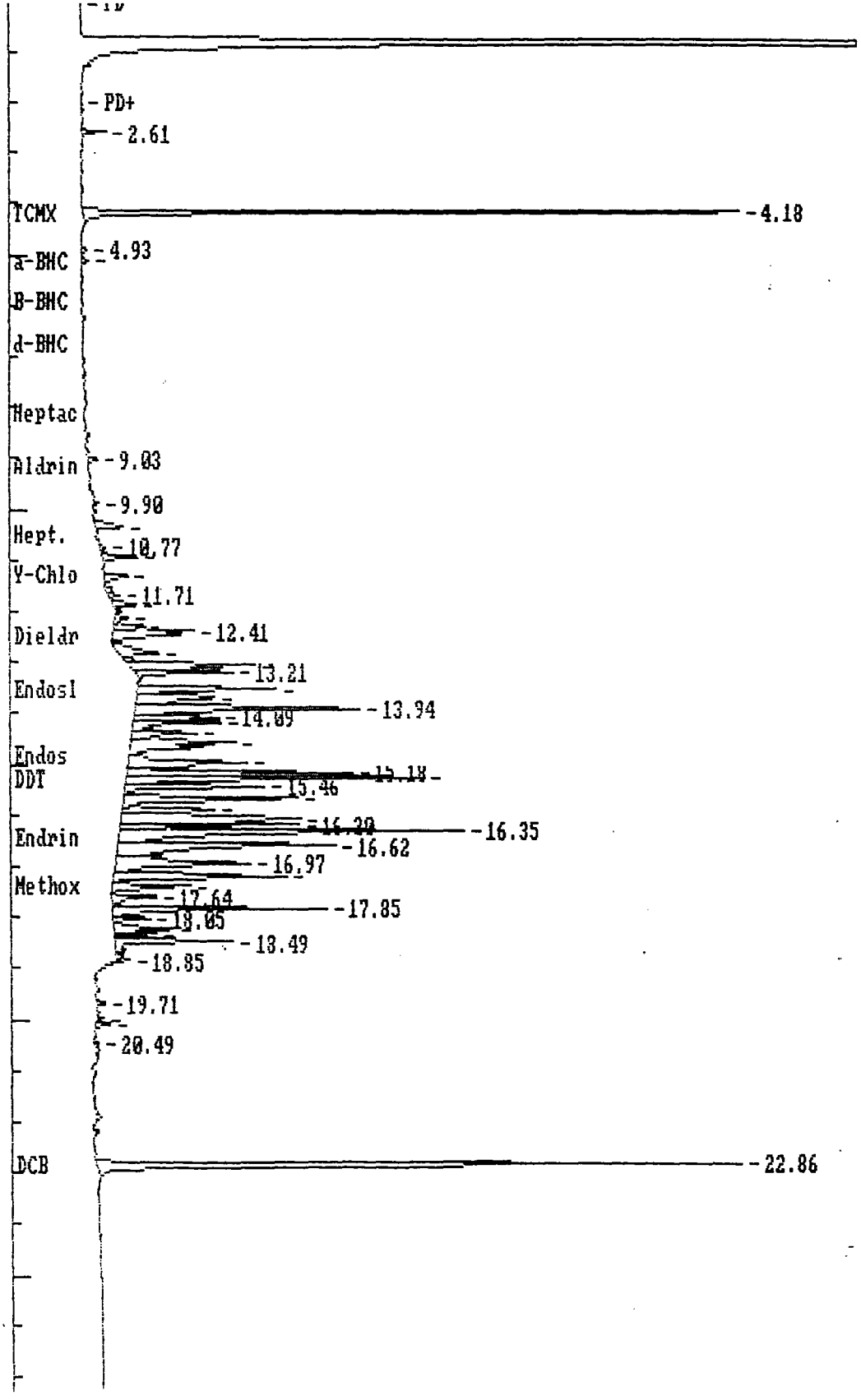
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

2	4.175	TCMX	121.9316	19.8594%	305861	84185	3.6	1	0		-.3579	3.9865E-04
3	4.926		0.0000	0.0000%	3106	742	4.2	2				1.0000E-09
4	5.144	a-BHC	1.2762	0.2079%	3514	891	3.9	2	0		0	3.6317E-04
5	9.035	Aldrin	1.9941	0.3248%	5439	1211	4.5	1	0	342	-1.260	3.6660E-04
6	9.903		0.0000	0.0000%	2903	823	3.5	1				1.0000E-09
7	10.371	Hept. epox.	8.2245	1.3396%	22904	3557	6.4	1	0		-.9484	3.5909E-04
8	10.771		0.0000	0.0000%	3531	780	4.5	2				1.0000E-09
9	10.972		0.0000	0.0000%	21426	4526	4.7	2				1.0000E-09
10	11.339	Y-Chlordane	6.5362	1.0646%	20043	3075	6.5	1	0		.7042	3.2611E-04
11	11.707	a-Chlordane	3.4224	0.5574%	10577	1385	7.6	2	0		-.5378	3.2358E-04
12	11.890		0.0000	0.0000%	15236	2864	5.3	2				1.0000E-09
13	12.141		0.0000	0.0000%	11596	1849	6.3	2				1.0000E-09
14	12.308		0.0000	0.0000%	15458	3779	4.1	2				1.0000E-09
15	12.408	Dieldrin	27.1912	4.4287%	85861	10432	8.2	2	0		-.6557	3.1669E-04
16	12.842	4,4-DDE	14.4161	2.3480%	41018	4973	8.2	2	0		1.439	3.5145E-04
17	13.076		0.0001	0.0000%	87641	15936	5.5	2				1.0000E-09
18	13.210	Endrin	17.3388	2.8240%	51835	12344	4.2	2	0		.3776	3.3450E-04
19	13.544	Endoslf II	28.5874	4.6561%	77963	17920	4.4	2	0		.2494	3.6668E-04
20	13.711		0.0001	0.0000%	82573	10166	8.1	2				1.0000E-09
21	13.945		0.0002	0.0000%	191054	29069	6.6	2				1.0000E-09
22	14.095	4'4-DDD	27.3670	4.4574%	49424	11032	4.5	2	0		.2475	5.5372E-04
23	14.195	Endrin ald	27.9174	4.5470%	63375	11373	5.6	2	0		.1198	4.4051E-04
24	14.412		0.0000	0.0000%	35968	8455	4.3	2				1.0000E-09
25	14.596		0.0001	0.0000%	128206	13515	9.5	2				1.0000E-09
26	14.980	Endos sulf	40.7792	6.6419%	94582	15277	6.2	2	0		0	4.3115E-04
27	15.180		0.0001	0.0000%	125957	29206	4.3	2				1.0000E-09
28	15.297	DDT	82.8560	13.4950%	188740	38514	4.9	2	0		-.0183	4.3899E-04
29	15.464		0.0001	0.0000%	84529	17958	4.7	2				1.0000E-09
30	15.698		0.0001	0.0000%	142079	22471	6.3	2				1.0000E-09
31	15.932		0.0001	0.0000%	72130	11955	6.0	2				1.0000E-09
32	16.099		0.0002	0.0000%	173207	23230	7.5	2				1.0000E-09
33	16.199		0.0001	0.0000%	106722	23109	4.6	2				1.0000E-09
34	16.349	Endrin ket.	82.8308	13.4909%	257780	44447	5.8	2	0		-.4911	3.2132E-04
35	16.616		0.0002	0.0000%	192820	28126	6.9	2				1.0000E-09
36	16.967		0.0002	0.0000%	157665	17406	9.1	2				1.0000E-09
37	17.234		0.0001	0.0000%	131702	22290	5.9	2				1.0000E-09
38	17.401	Methoxychlor	35.9876	5.8614%	58631	10097	5.8	2	0		.1807	6.1380E-04
39	17.635		0.0000	0.0000%	30483	5792	5.3	2				1.0000E-09
40	17.852		0.0001	0.0000%	130473	27654	4.7	2				1.0000E-09
41	18.053		0.0000	0.0000%	20024	4811	4.2	2				1.0000E-09
42	18.236		0.0000	0.0000%	44298	7759	5.7	2				1.0000E-09
43	18.353		0.0000	0.0000%	19992	5487	3.6	2				1.0000E-09
44	18.487		0.0001	0.0000%	65377	15264	4.3	2				1.0000E-09
45	18.854		0.0000	0.0000%	8477	1821	4.7	1				1.0000E-09
46	19.706		0.0000	0.0000%	5354	1129	4.7	1				1.0000E-09
47	20.007		0.0000	0.0000%	3536	901	3.9	2				1.0000E-09
48	20.123		0.0000	0.0000%	9044	1875	4.8	2				1.0000E-09
49	20.491		0.0000	0.0000%	1978	456	4.3	1				1.0000E-09
50	22.862	DCB	85.3149	13.8955%	379137	82598	4.6	1	0		0	2.2502E-04

TOTAL AMOUNT = 613.9734

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:FB02D7.ATB
Data File = D:FB02D7.PTS Printed on 02-02-1996 at 13:54:30
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 13:55:09 Version 5.1.5 **********

* Sample Name: TOX 2.5 PPM Data File: D:GB02D7 *

* Date: 02-02-1996 13:22:42 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 7 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

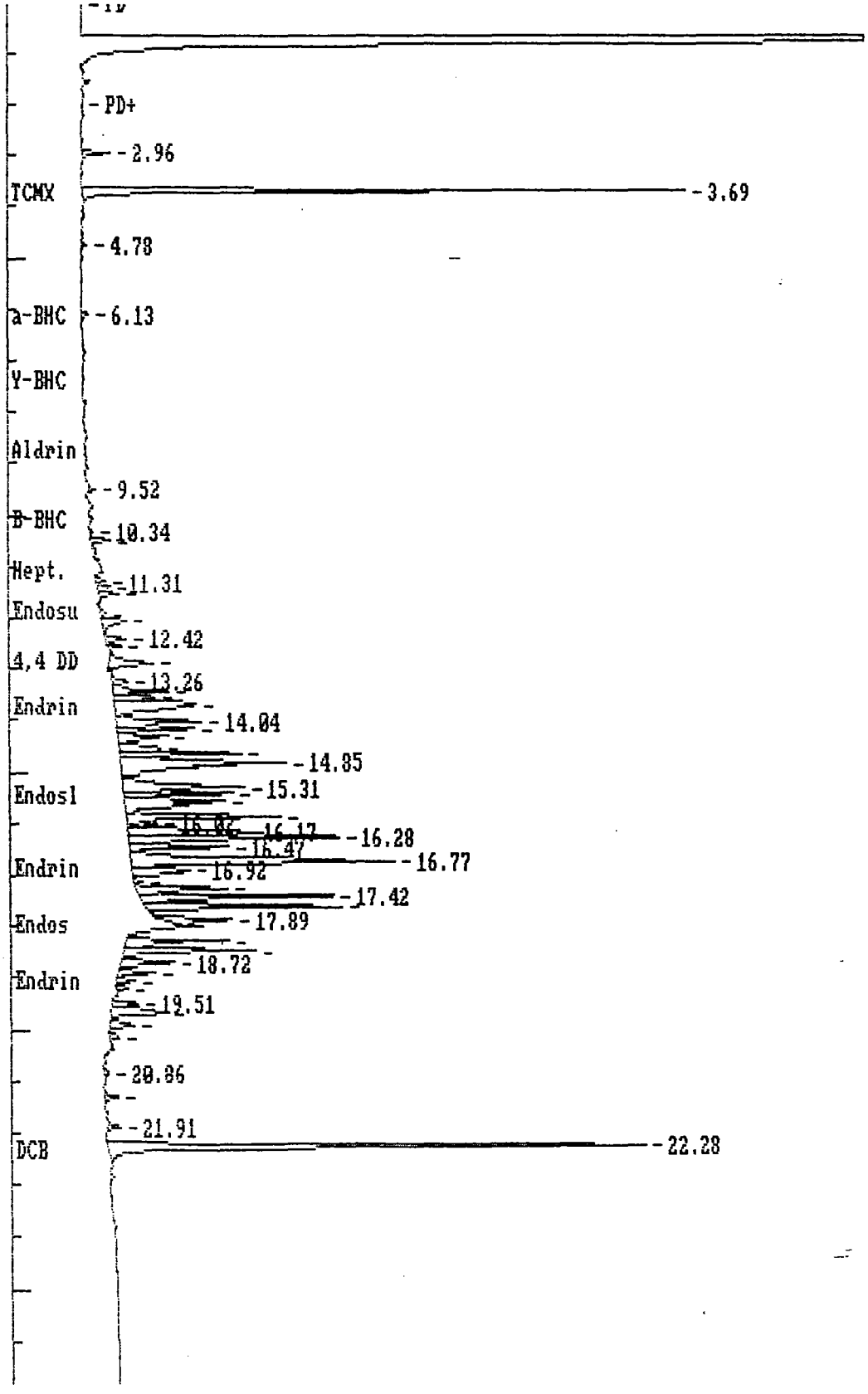
Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

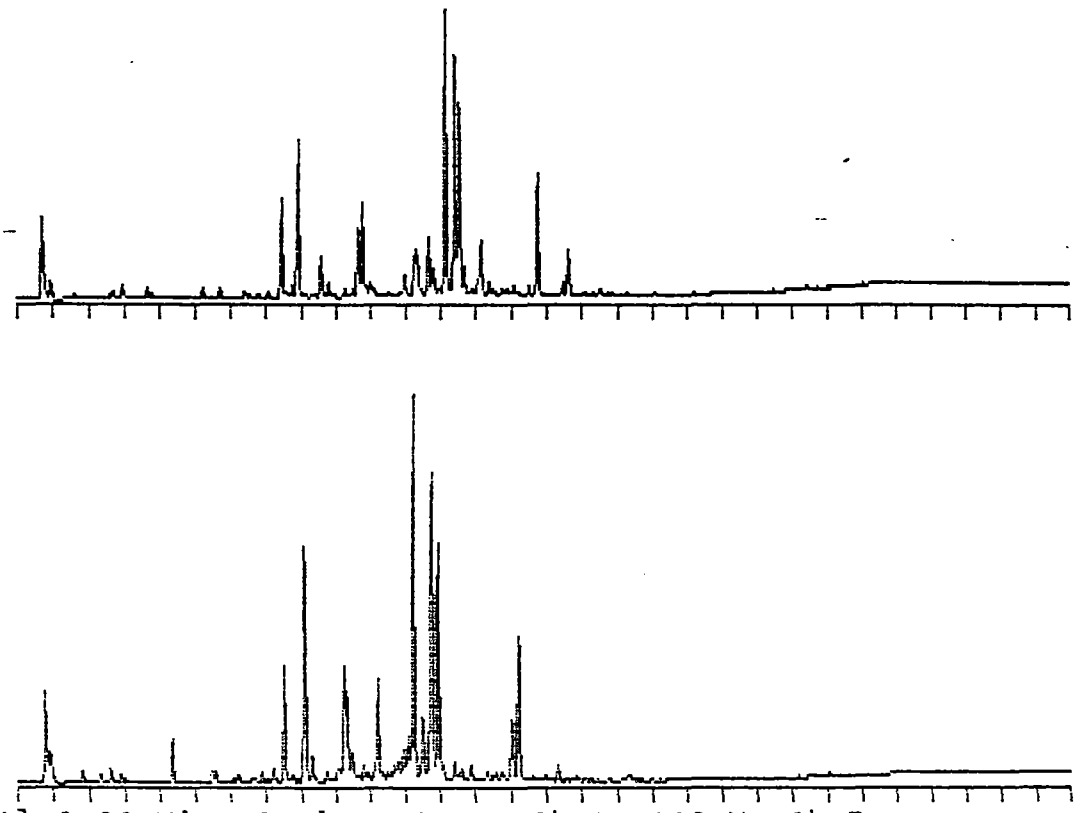
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.956		0.0000	0.0000%	15051	3479	4.3	1			1.0000E-09
2	3.691	TCMX	122.8005	18.8776%	280807	76181	3.7	1	0	-.5202	4.3731E-04
3	4.776		0.0000	0.0000%	2677	667	4.0	1			1.0000E-09
4	6.129	a-BHC	1.3427	0.2064%	3453	883	3.9	1	0	0	3.8886E-04
5	9.519		0.0000	0.0000%	3616	962	3.8	1			1.0000E-09
6	10.337		0.0000	0.0000%	2432	522	4.7	2			1.0000E-09
7	10.521	d-BHC	5.6064	0.8619%	10998	2572	4.3	2	0	-1.396	5.0977E-04
8	11.306		0.0000	0.0000%	5943	1192	5.0	2			1.0000E-09
9	11.423		0.0000	0.0000%	9272	1600	5.8	2			1.0000E-09
10	11.556		0.0000	0.0000%	10485	2565	4.1	2			1.0000E-09
11	11.924	Endosulf I	1.2283	0.1888%	3230	625	5.2	2	0	.5379	3.8028E-04
12	12.074	Y-Chlordane	9.5031	1.4609%	25219	3093	8.2	2	0	-.5428	3.7683E-04
13	12.425	a-Chlordane	4.6122	0.7090%	12212	2726	4.5	2	0	.1999	3.7768E-04
14	12.575		0.0000	0.0000%	8721	1736	5.0	2			1.0000E-09
15	12.909	4,4 DDE	16.8302	2.5872%	38647	5633	6.9	1	0	.5381	4.3548E-04
16	13.260	Dieldrin	4.4669	0.6867%	11594	2038	5.7	2	0	1.297	3.8528E-04
17	13.460		0.0000	0.0000%	37504	7083	5.3	2			1.0000E-09
18	13.577		0.0000	0.0000%	23597	5339	4.4	2			1.0000E-09
19	13.711	Endrin	47.0052	7.2259%	114950	10392	11.1	2	0	-.1187	4.0892E-04
20	14.045		0.0001	0.0000%	58629	10904	5.4	2			1.0000E-09
21	14.178		0.0001	0.0000%	53355	9949	5.4	2			1.0000E-09
22	14.329		0.0000	0.0000%	41886	6450	6.5	2			1.0000E-09
23	14.562		0.0000	0.0000%	31649	5346	5.9	2			1.0000E-09
24	14.663		0.0001	0.0000%	74808	15320	4.9	2			1.0000E-09
25	14.846		0.0002	0.0000%	169372	20802	8.1	2			1.0000E-09
26	15.314		0.0001	0.0000%	87759	15298	5.7	2			1.0000E-09
27	15.431	EndoslfII	31.2258	4.8002%	72166	13776	5.2	2	0	-.1242	4.3270E-04
28	15.581	4'4-DDD	65.7075	10.1009%	104506	12707	8.2	2	0	.1356	6.2874E-04
29	15.882		0.0001	0.0000%	111107	19409	5.7	3			1.0000E-09
30	16.015	4,4 DDT	9.4792	1.4572%	15523	2984	5.2	4	0	-.1041	6.1066E-04
31	16.166		0.0001	0.0000%	71464	14072	5.1	2			1.0000E-09
32	16.282		0.0002	0.0000%	187556	26511	7.1	2			1.0000E-09
33	16.466		0.0001	0.0000%	52728	12483	4.2	2			1.0000E-09
34	16.767	Endrin ald	145.9326	22.4326%	249992	22225	7.5	2			

Areas, times, and heights stored in: D:GB02D7.ATB
Data File = D:GB02D7.PTS Printed on 02-02-1996 at 13:56:04
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
CHLORD 1PP Processed: 02-02-1996 20:41:44, segment 15, cycle 19
RAW DATA SAVED IN FILE D:FB02D19.PTS Second Channel Stored in D:GB02D19.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 20:42:37 Version 5.1.5 **********

* Sample Name: CHLORD 1PPM Data File: D:FB02D19 *
* Date: 02-02-1996 20:11:09 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 19 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

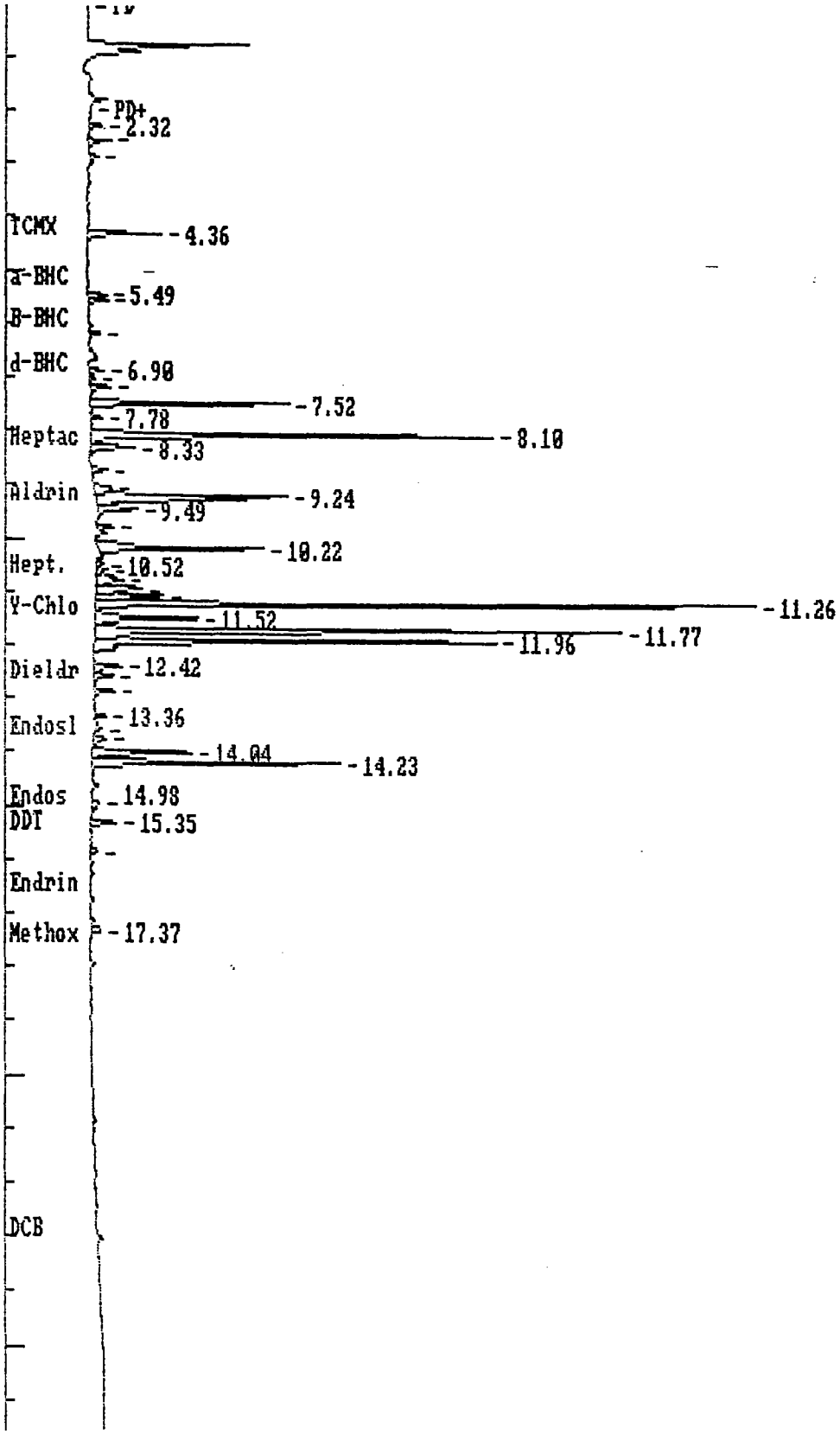
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED	AREA/	REF	% DELTA

2	2.389		0.0000	0.0000%	12391	2752	4.5 1			1.0000E-09
3	2.889		0.0000	0.0000%	4056	1073	3.8 1			1.0000E-09
4	4.359		0.0000	0.0000%	33633	8856	3.8 1			1.0000E-09
5	5.494		0.0000	0.0000%	8684	2258	3.8 2			1.0000E-09
6	5.594		0.0000	0.0000%	9328	2368	3.9 2			1.0000E-09
7	6.212		0.0000	0.0000%	5985	1380	4.3 1			1.0000E-09
8	6.897		0.0000	0.0000%	7740	1863	4.2 1			1.0000E-09
9	7.064		0.0000	0.0000%	2655	681	3.9 1			1.0000E-09
10	7.214		0.0000	0.0000%	10392	2567	4.0 1			1.0000E-09
11	7.515		0.0001	0.0000%	90718	23989	3.8 2			1.0000E-09
12	7.782		0.0000	0.0000%	6617	1395	4.7 2			1.0000E-09
13	8.099	Heptachlor	58.2827	14.8411%	190466	48655	3.9 2	0	0	3.0600E-04
14	8.333		0.0000	0.0000%	25418	5451	4.7 2			1.0000E-09
15	8.751		0.0000	0.0000%	8030	1912	4.2 1			1.0000E-09
16	9.085	Aldrin	6.4460	1.6414%	17583	2207	8.0 2	0	-.7125	3.6660E-04
17	9.235		0.0002	0.0000%	160068	23165	6.9 2			1.0000E-09
18	9.486		0.0000	0.0000%	25031	4831	5.2 2			1.0000E-09
19	9.820		0.0000	0.0000%	6734	1866	3.6 1			1.0000E-09
20	10.220		0.0001	0.0000%	88889	19932	4.5 1			1.0000E-09
21	10.521	Hept. epox.	1.4376	0.3661%	4004	974	4.1 2	0	.4871	3.5909E-04
22	10.621		0.0000	0.0000%	5684	1405	4.0 2			1.0000E-09
23	10.822		0.0000	0.0000%	26010	3351	7.8 2			1.0000E-09
24	10.989		0.0000	0.0000%	34722	5651	6.1 2			1.0000E-09
25	11.105		0.0000	0.0000%	41218	8268	5.0 2			1.0000E-09
26	11.256	Y-Chlordane	102.3578	26.0644%	313878	79733	3.9 2	0	0	3.2611E-04
27	11.523	Endosulfan I	20.9328	5.3303%	61422	12372	5.0 2	0	-.8347	3.4080E-04
28	11.773	a-Chlordane	91.8890	23.3986%	283977	63606	4.5 2	0	0	3.2358E-04
29	11.957		0.0002	0.0001%	208257	48652	4.3 2			1.0000E-09
30	12.425	Dieldrin	4.9568	1.2622%	15652	3456	4.5 2	0	-.5220	3.1669E-04
31	12.625	4,4-DDE	4.7657	1.2135%	13560	2368	5.7 2	0	-.2748	3.5145E-04
32	12.892		0.0000	0.0000%	10140	2438	4.2 1			1.0000E-09
33	13.360	Endrin	1.9869	0.5059%	5940	1378	4.3 1	0	1.519	3.3450E-04
34	13.594	Endoslf II	1.3234	0.3370%	3609	837	4.3 1	0	.6202	3.6668E-04
35	13.777		0.0000	0.0000%	9781	1613	6.1 1			1.0000E-09
36	14.045	4'4-DDD	32.2699	8.2172%	58278	11959	4.9 2	0	-.1088	5.5372E-04
37	14.228	Endrin ald	53.4241	13.6039%	121277	29974	4.0 2	0	.3554	4.4051E-04
38	14.980	Endos sulf	2.0763	0.5287%	4816	951	5.1 1	0	0	4.3115E-04
39	15.347	DDT	5.9383	1.5121%	13527	3131	4.3 1	0	.3091	4.3899E-04
40	15.882		0.0000	0.0000%	4282	850	5.0 1			1.0000E-09
41	17.368	Methoxychlor	4.6229	1.1772%	7532	1066	7.1 1	0	0	6.1380E-04

TOTAL AMOUNT = 392.7110

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:FB02D19.ATB
Data File = D:FB02D19.PTS Printed on 02-02-1996 at 20:42:59
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 20:43:18 Version 5.1.5 **********

* Sample Name: CHLORD 1PPM Data File: D:GB02D19 *

* Date: 02-02-1996 20:11:09 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 19 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: - *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

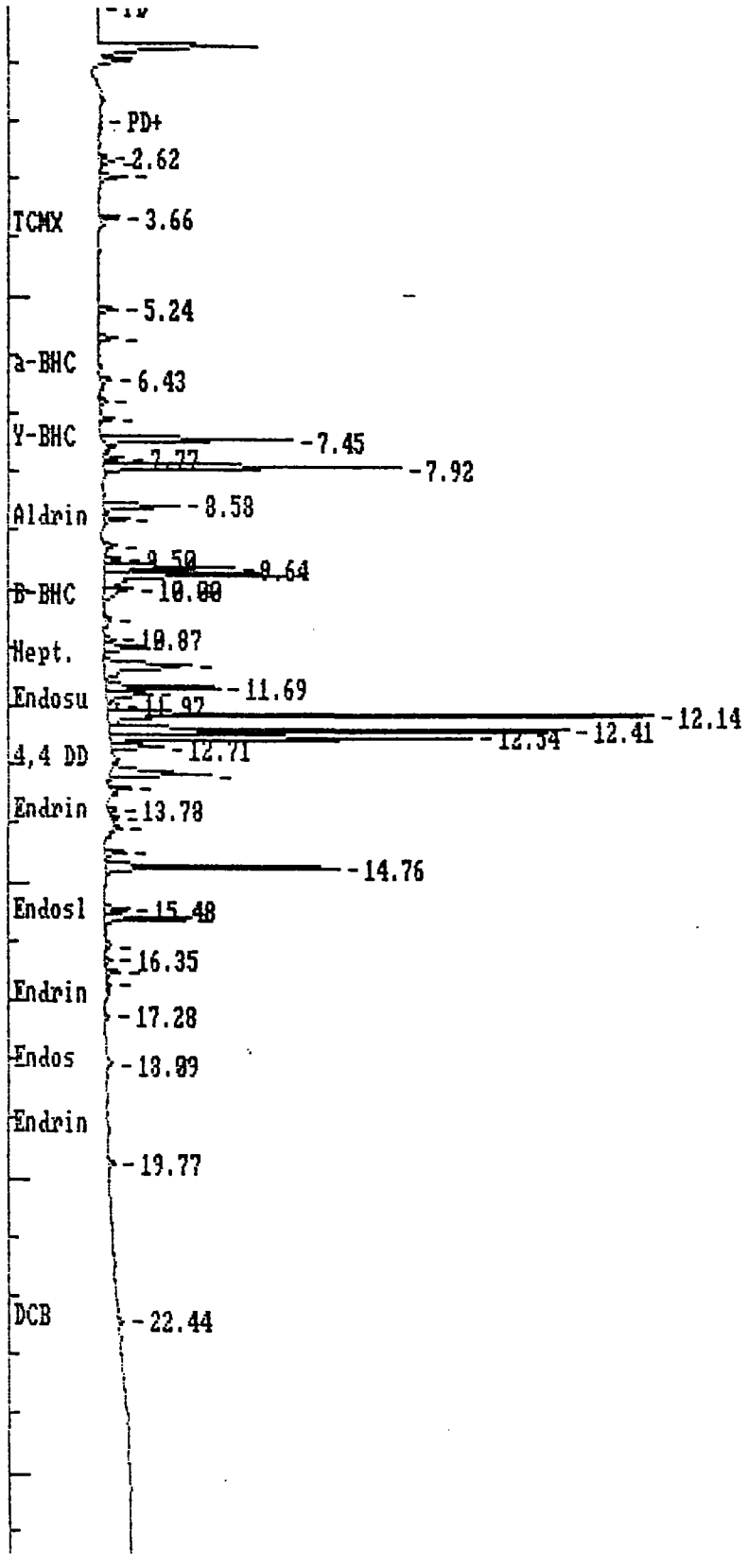
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.622		0.0000	0.0000%	2644	744	3.6	2			1.0000E-09
2	2.705		0.0000	0.0000%	6527	1565	4.2	2			1.0000E-09
3	2.956		0.0000	0.0000%	13007	2990	4.3	1			1.0000E-09
4	3.657	TCMX	3.2785	0.8524%	7497	2127	3.5	1	0	-1.420	4.3731E-04
5	5.244		0.0000	0.0000%	9032	2163	4.2	1			1.0000E-09
6	5.728		0.0000	0.0000%	8877	2166	4.1	1			1.0000E-09
7	6.429		0.0000	0.0000%	5718	1241	4.6	1			1.0000E-09
8	6.814		0.0000	0.0000%	4273	873	4.9	1			1.0000E-09
9	7.097		0.0000	0.0000%	5752	1474	3.9	1			1.0000E-09
10	7.448	Y-BHC	29.3264	7.6249%	78395	20657	3.8	1	0	1.198	3.7409E-04
11	7.766		0.0000	0.0000%	8394	2215	3.8	1			1.0000E-09
12	7.916	Heptachlor	47.1176	12.2506%	126156	32872	3.8	1	0	0	3.7349E-04
13	8.584	Aldrin	16.2183	4.2168%	38312	8408	4.6	2	0	-1.335	4.2332E-04
14	8.818		0.0000	0.0000%	12630	2786	4.5	2			1.0000E-09
15	9.268		0.0000	0.0000%	5775	1430	4.0	1			1.0000E-09
16	9.502		0.0000	0.0000%	7834	1748	4.5	2			1.0000E-09
17	9.636		0.0001	0.0000%	58985	14268	4.1	2			1.0000E-09
18	9.769		0.0001	0.0000%	98347	20226	4.9	2			1.0000E-09
19	10.003	B-BHC	16.4358	4.2733%	25318	3263	7.8	2	0	-.4646	6.4918E-04
20	10.538	d-BHC	1.6228	0.4219%	3183	585	5.4	1	0	-1.239	5.0977E-04
21	10.872		0.0000	0.0000%	5529	1161	4.8	2			1.0000E-09
22	11.022	Hept. epox.	9.6382	2.5059%	23829	4514	5.3	2	0	-.3435	4.0447E-04
23	11.306		0.0001	0.0000%	84957	9763	8.7	2			1.0000E-09
24	11.690		0.0001	0.0000%	56185	12503	4.5	2			1.0000E-09
25	11.807	Endosulf I	10.2173	2.6565%	26868	5067	5.3	2	0	-.4477	3.8028E-04
26	11.974		0.0000	0.0000%	6673	1198	5.6	2			1.0000E-09
27	12.141	Y-Chlordane	97.7450	25.4137%	259390	60568	4.3	2	0	0	3.7683E-04
28	12.408	a-Chlordane	80.8820	21.0293%	214153	50926	4.2	2	0	0	3.7768E-04
29	12.542		0.0002	0.0000%	163144	40136	4.1	2			1.0000E-09
30	12.709	4,4 DDE	10.0834	2.6217%	23154	5762	4.0	2	0	-1.022	4.3548E-04
31	13.176	Dieldrin	22.4955	5.8488%	58388	11352	5.1	1	0	.6592	3.8528E-04
32	13.410		0.0000	0.0000%	9021	2308	3.9	1			1.0000E-09

36	14.512		-0.0000	0.0000%	11222	2505	4.5 2			1.0000E-09
37	14.763		0.0001	0.0000%	111349	25824	4.3 2			1.0000E-09
38	15.481	EndoslfII	5.4706	1.4224%	12643	2695	4.7 2	0	.2000	4.3270E-04
39	15.631	4'4-DDD	26.5860	6.9124%	42285	9634	4.4 2	0	350 .4575	6.2874E-04
40	16.099	4,4 DDT	2.2704	0.5903%	3718	647	5.8 1	0	.4166	6.1066E-04
41	16.349		0.0000	0.0000%	3357	778	4.3 2			1.0000E-09
42	16.533		0.0000	0.0000%	9513	1675	5.7 2			1.0000E-09
43	16.767	Endrin ald	1.2264	0.3189%	2092	512	4.1 2	0	-.3162	5.8612E-04
44	17.284		0.0000	0.0000%	2425	517	4.7 1			1.0000E-09
45	18.086	Endos sulf	1.1941	0.3105%	2347	557	4.2 1	0	.9269	5.0885E-04
46	19.773		0.0000	0.0000%	3109	673	4.6 1			1.0000E-09
47	22.445	DCB	0.9105	0.2367%	2980	634	4.7 1	0	.6944	3.0554E-04

TOTAL AMOUNT = 384.6148

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:GB02D19.ATB
Data File = D:GB02D19.PTS Printed on 02-02-1996 at 20:44:12
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



1D

EPA SAMPLE NO. 352

PESTICIDE ORGANICS ANALYSIS DATA SHEET

2006.1
MW1-293376I

Lab Name: EMSL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 95-58311

Sample wt/vol: 1000 (g/mL) ml Lab File ID: d:jr22d30

% Moisture: na decanted: (Y/N) N Date Received:

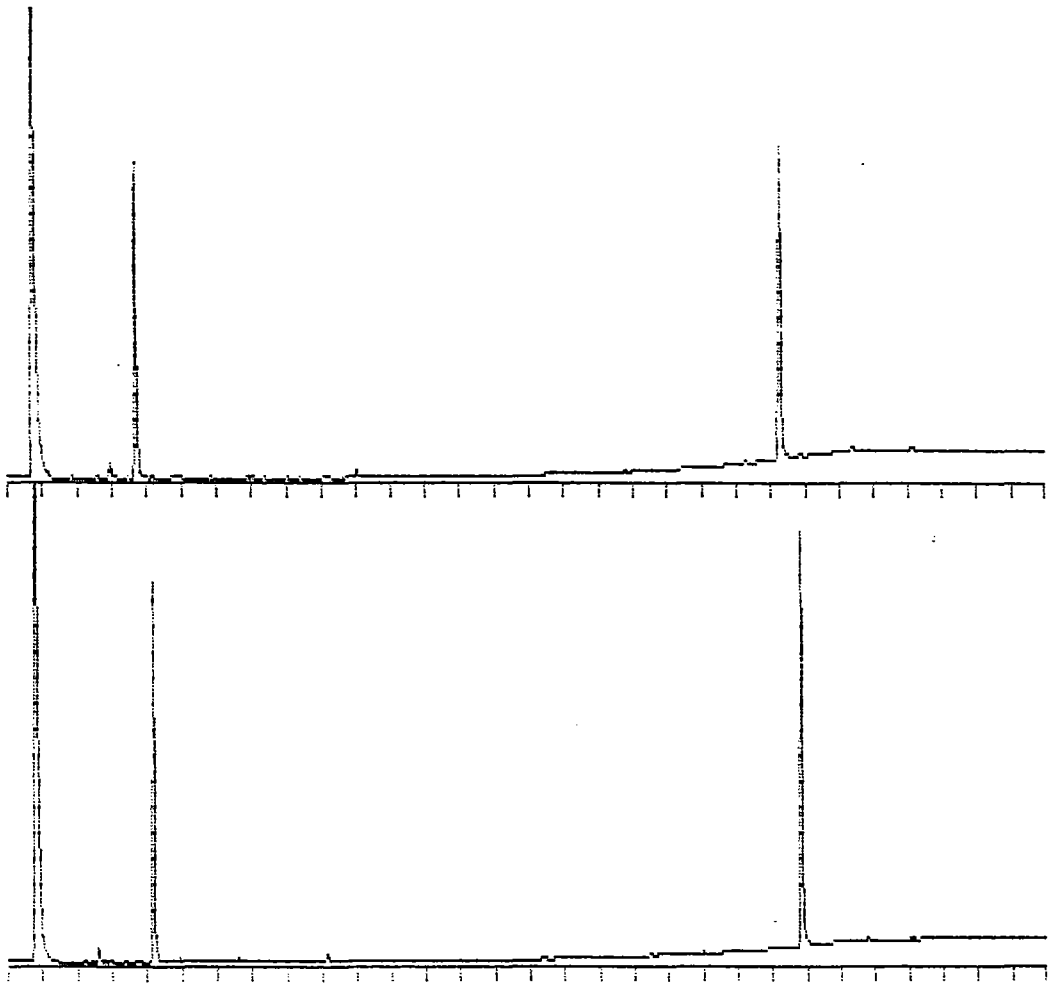
Extraction: (SepF/Cont/Sonc) sepf Date Extracted: 12/21/95

Concentrated Extract Volume: 10 (ml) Date Analyzed: 01/24/96

Injection Volume: 1 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
95-58311 P Processed: 01-23-1996 13:07:26, segment 14, cycle 30
RAW DATA SAVED IN FILE D:JR22D30.PTS Second Channel Stored in D:KR22D30.PTS

***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 13:08:15 Version 5.1.5 **********
* Sample Name: 95-58311 PP Data File: D:JR22D30 *
* Date: 01-23-1996 12:36:46 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 30 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

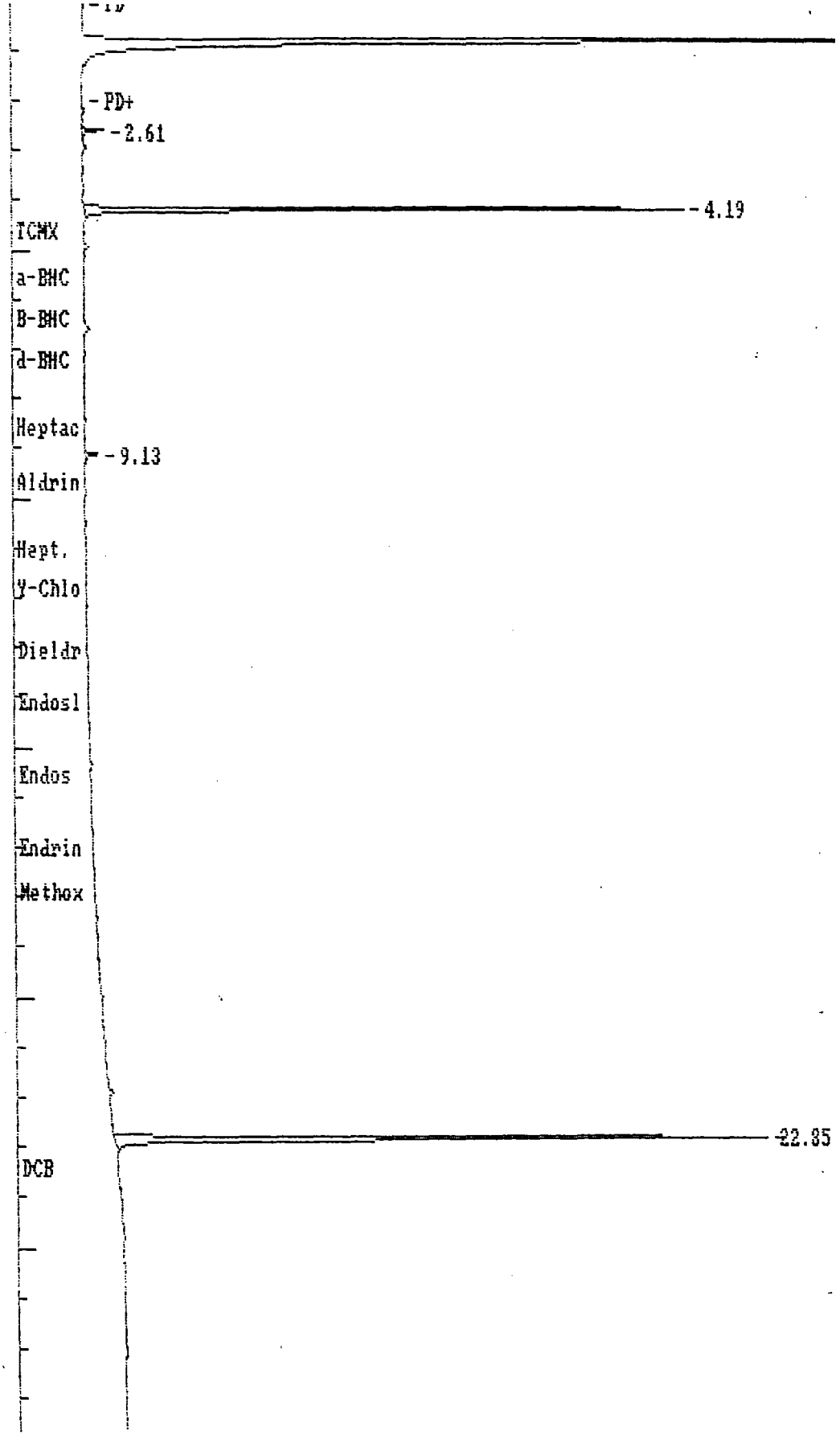
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	1.8030%	12831	2877	4.5	1			1.0000E-09
2	4.192		0.0003	42.3351%	301271	78949	3.8	1			1.0000E-09
3	9.125		0.0000								

TOTAL AMOUNT = 0.0007

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D30.AT8
Data File = D:JR22D30.PTS Printed on 01-23-1996 at 13:08:32
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 13:08:46 Version 5.1.5 **********

* Sample Name: 95-58311 PP Data File: D:KR22D30 *

* Date: 01-23-1996 12:36:46 Method: M:8PES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 30 Operator JJK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

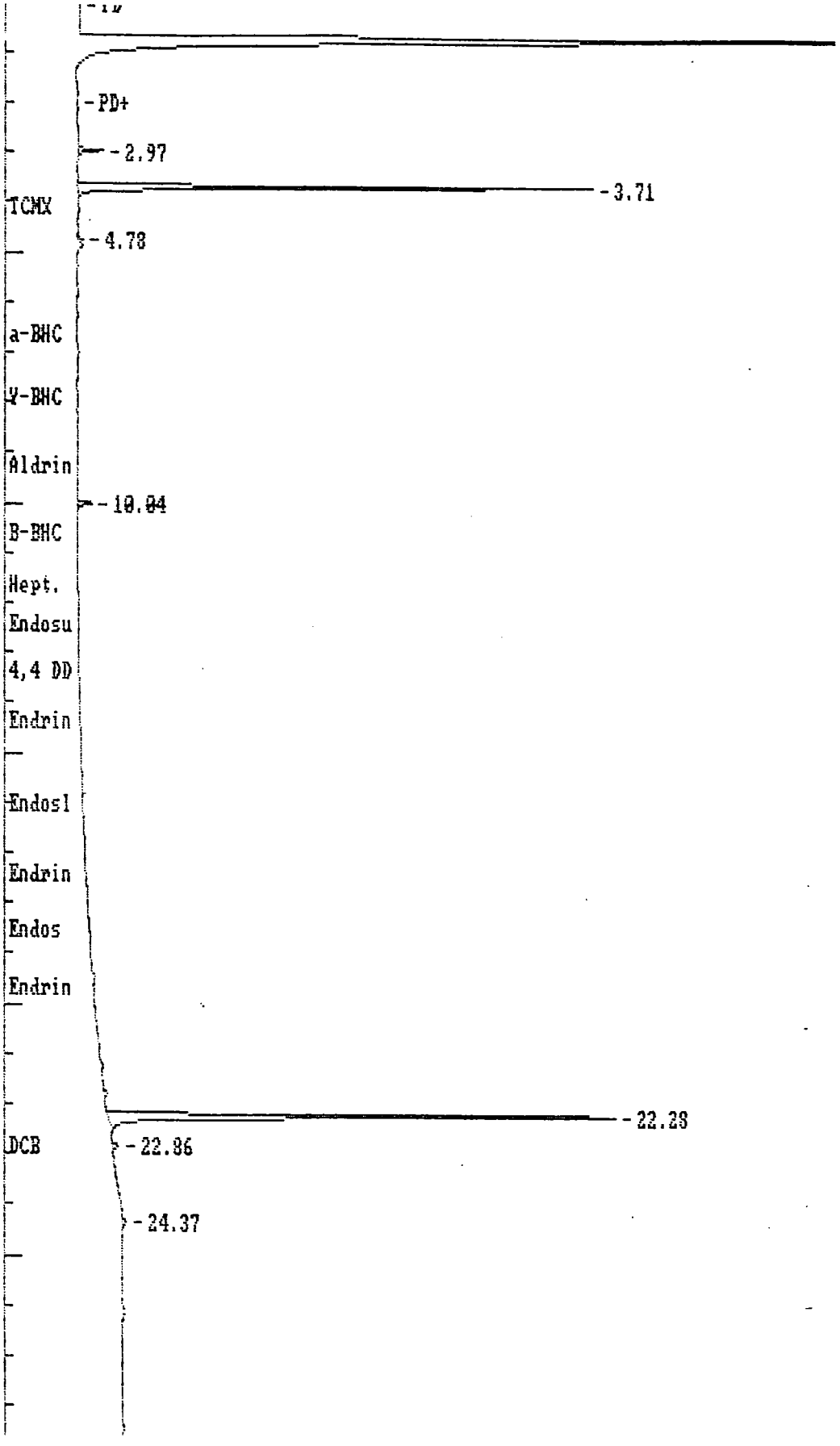
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.0011%	14167	3257	4.3	1			1.0000E-09
2	3.707		0.0003	0.0210%	279278	67190	4.2	1			1.0000E-09
3	4.776		0.0000	0.0002%	2076	549	3.8	1			1.0000E-09
4	10.037		0.0000	0.0007%	9330	1809	5.2	1			1.0000E-09
5	22.278		0.0003	0.0251%	332852	66167	5.0	1			1.0000E-09
6	22.862	DCB	1.3269	99.9517%	4343	750	5.8	1	0	0	3.0554E-04
7	24.365		0.0000	0.0002%	3106	476	6.5	1			1.0000E-09

TOTAL AMOUNT = 1.3275

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:KR22D30.ATB
Data File = D:KR22D30.PTS Printed on 01-23-1996 at 13:09:04
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 2002.3 FB

Lab Name: EMSL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: 95-58313

Sample wt/vol: 1000 (g/mL) ml Lab File ID: d:jr22d31

% Moisture: na decanted: (Y/N) N Date Received:

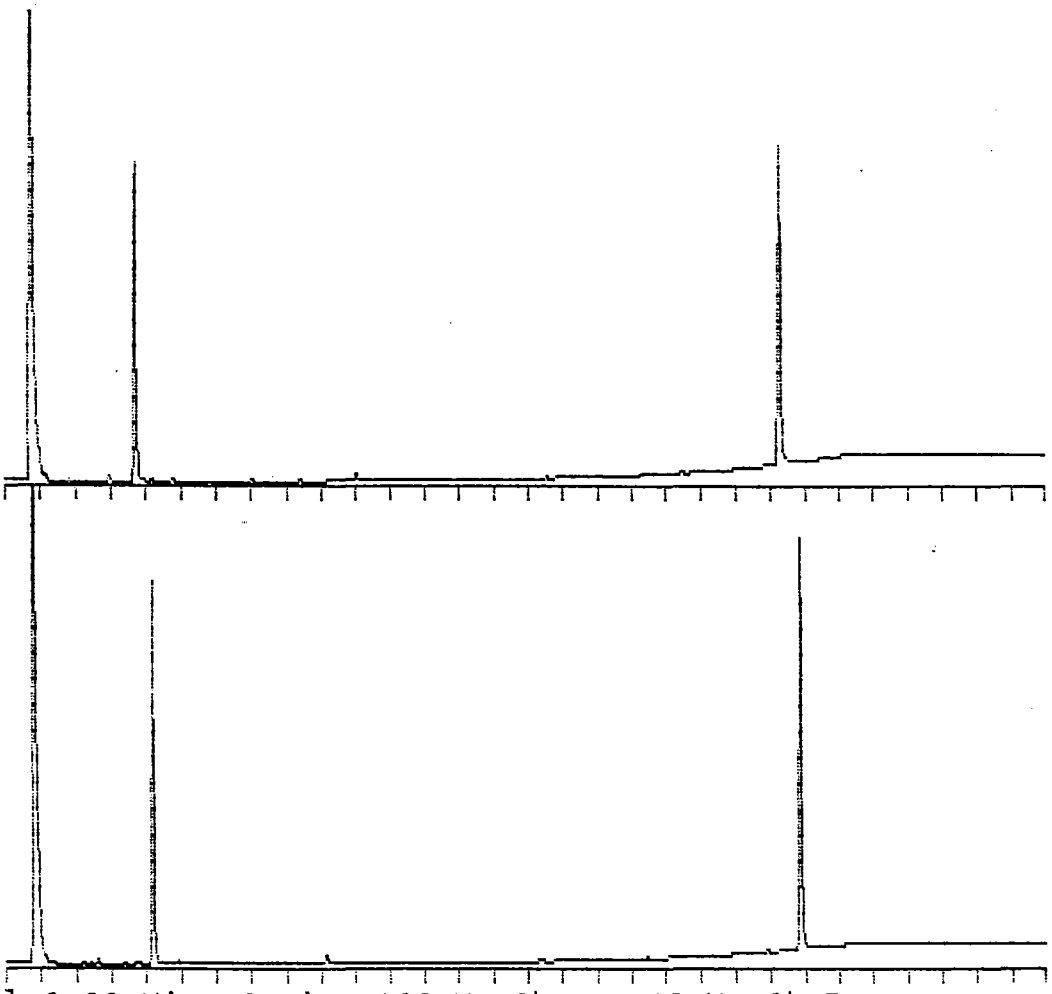
Extraction: (SepF/Cont/Sonc) sepf Date Extracted: 12/21/95

Concentrated Extract Volume: 10 (ml) Date Analyzed: 01/24/96

Injection Volume: 1 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
95-58313 P Processed: 01-23-1996 13:41:32, segment 15, cycle 31
RAW DATA SAVED IN FILE D:JR22D31.PTS Second Channel Stored in D:KR22D31.PTS

***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 13:42:21 Version 5.1.5 **********
* Sample Name: 95-58313 PP Data File: D:JR22D31 *
* Date: 01-23-1996 13:10:52 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 31 Operator JJK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m, .35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

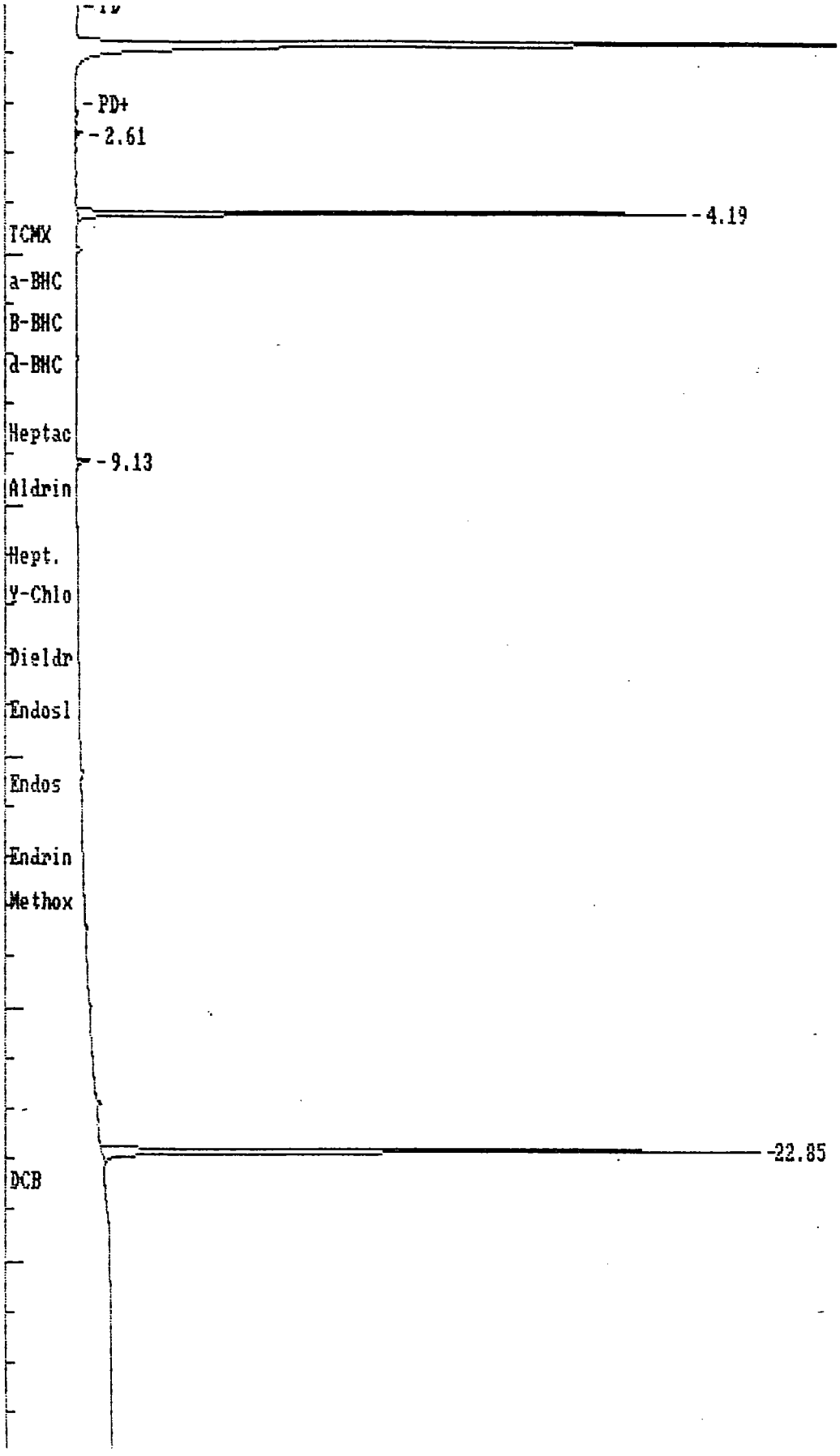
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	0.5011%	3559	817	4.4	1			1.0000E-09
2	4.192		0.0003	42.7206%	303437	79335	3.8	1			1.0000E-09
3	9.135		0.0000	1.0962%	7715	1628	4.7	1			1.0000E-09

TOTAL AMOUNT = 0.0007

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:JR22D31.ATB
Data File = D:JR22D31.PTS Printed on 01-23-1996 at 13:42:37
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 13:42:51 Version 5.1.5 **********

* Sample Name: 95-58313 PP Data File: D:KR22D31 *

* Date: 01-23-1996 13:10:52 Method: M:BPES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 31 Operator JJK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

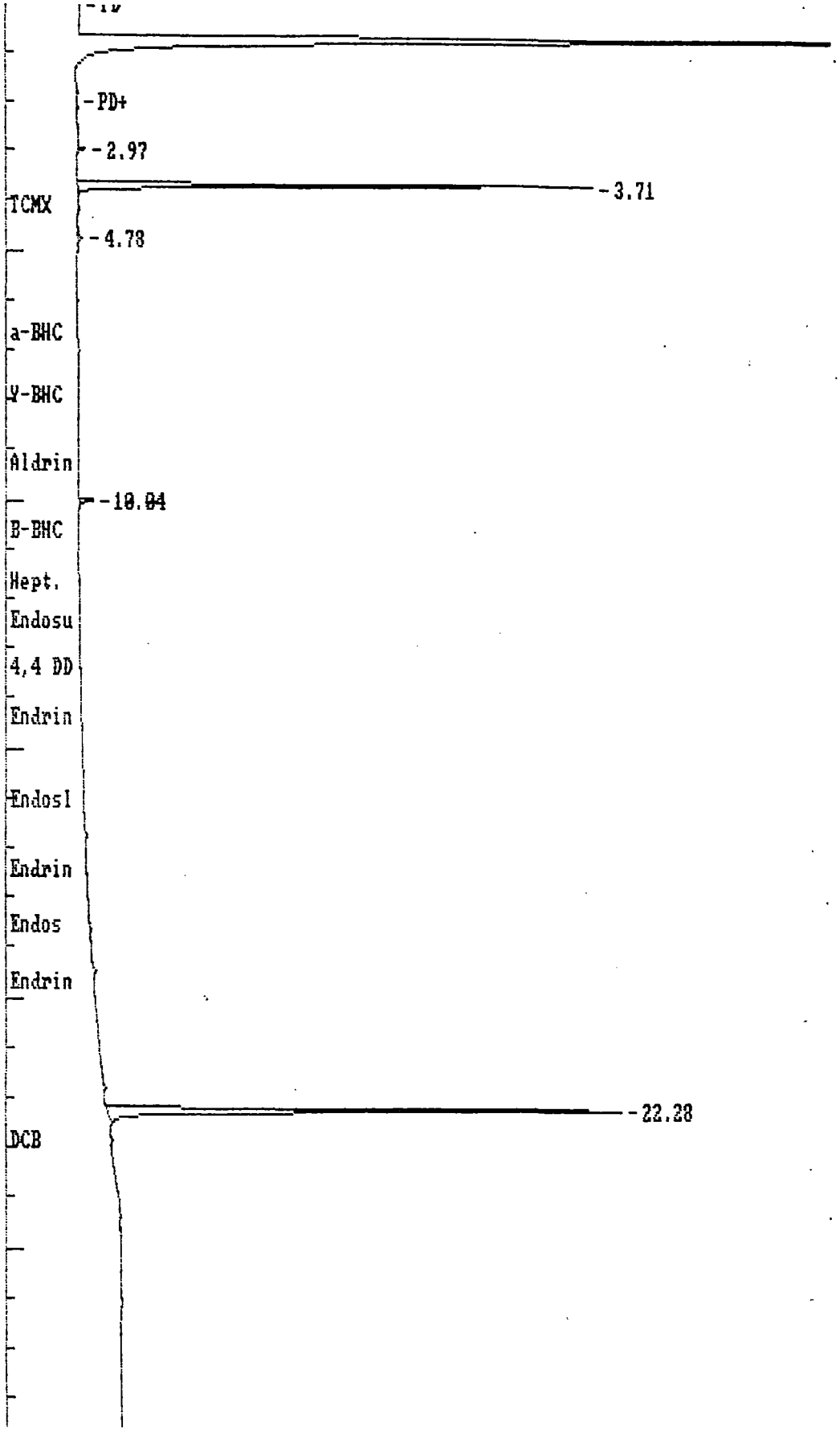
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.6486%	4120	952	4.3	1			1.0000E-09
2	3.707		0.0003	44.1632%	280542	67428	4.2	1			1.0000E-09
3	4.776		0.0000	0.4324%	2746	657	4.2	1			1.0000E-09
4	10.037		0.0000	1.4715%	9348	1827	5.1	1			1.0000E-09
5	22.278		0.0003	53.2844%	338484	67245	5.0	1			1.0000E-09

TOTAL AMOUNT = 0.0006

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:KR22D31.ATB
Data File = D:KR22D31.PTS Printed on 01-23-1996 at 13:43:08
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: EMSL ANALYTICAL Contract:

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

GC Column(1): DB-5 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53

	LAB SAMPLE ID.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)
01	mb12/21	128		124		104		103			
02	95-58311	128		124		107		106			
03	95-58313	129		124		109		106			
04	96-2188 MS	350 ~~250~~		390 ~~560~~		~~134~~ 64		~~130~~ 64		not 2/14/96	
05	96-2188 MSD	350		390		71		70			
06	MB 96-2	220		560		131		130			
07											
08											
09											
10											
11											
12											
13											
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27											
28											
29											
30											

ADVISORY QC LIMITS

TXC = Tetrachloro-m-xylene (60-150)
DCB = Decachlorobiphenyl (60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits

4A
METHOD BLANK SUMMARY

EPA SAMPLE NO. 363

Lab Name: EMSL Analytical Contract:

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

Lab File ID: D:JR22D29 Lab Sample ID: MB-12/21/95

Instrument ID: Date Analyzed: 1/24/96

Matrix: (soil/water) Time Analyzed:

Level: (low/med) low

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		95-58311	D:JR22D30	1/24/96
02		95-58313	D:JR22D31	1/24/96
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 364

Lab Name: EMSL Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: mb 12/21

Sample wt/vol: 1000 (g/mL) ml Lab File ID: d:jr22d9

% Moisture: na decanted: (Y/N) N Date Received:

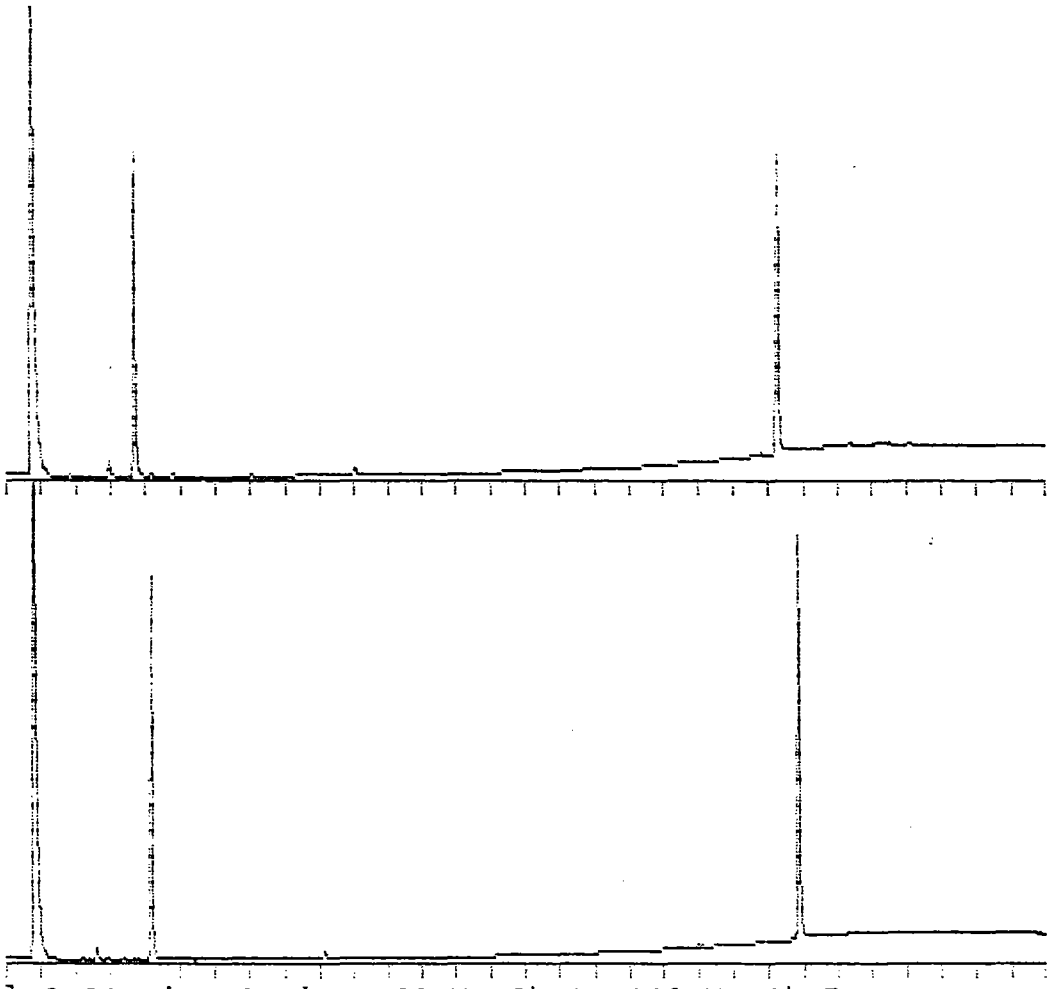
Extraction: (SepF/Cont/Sonc) sepf Date Extracted: 12/21/95

Concentrated Extract Volume: 10 (ml) Date Analyzed: 01/24/96

Injection Volume: 1 (uL) Dilution Factor: 1

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
MS 12/21 P Processed: 01-23-1996 12:33:24, segment 13, cycle 29
RAW DATA SAVED IN FILE D:JR22D29.PTS Second Channel Stored in D:KR22D29.PTS

***** EXTERNAL STANDARD TABLE *****

******************** 01-23-1996 12:34:13 Version 5.1.5 ********************

* Sample Name: MB 12/21 PP Data File: D:JR22D29 *

* Date: 01-23-1996 12:02:44 Method: M:APES-H 11-17-1995 15:56:16 # 376 *

* Interface: 1 Cycle#: 29 Operator JJK Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 1000 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

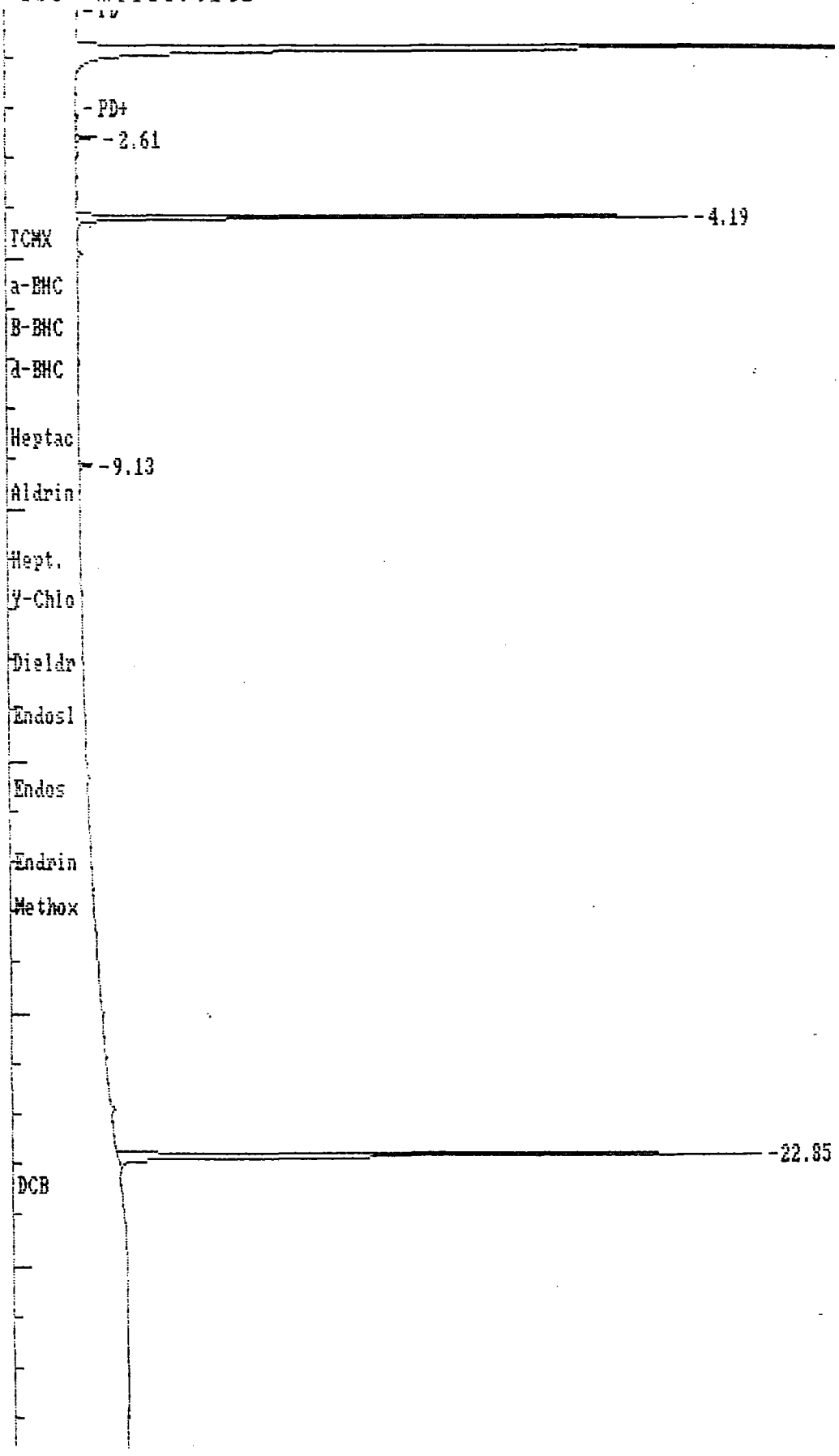
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.605		0.0000	1.7418%	12206	2748	4.4	1			1.0000E-09
2	4.192		0.0003	43.0463%	301666	79556	3.8	1			1.0000E-09
3	9.135		0.0000	1.0648%	7462	1615	4.6	1			1.0000E-09

TOTAL AMOUNT = 0.0007

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:JR22D29.AT8
Data File = D:JR22D29.PTS Printed on 01-23-1996 at 12:34:30
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 01-23-1996 12:34:45 Version 5.1.5 **********

* Sample Name: MB 12/21 PP Data File: D:KR22D29 *

* Date: 01-23-1996 12:02:44 Method: M:8PES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 29 Operator JJK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

****

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 120 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

****

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

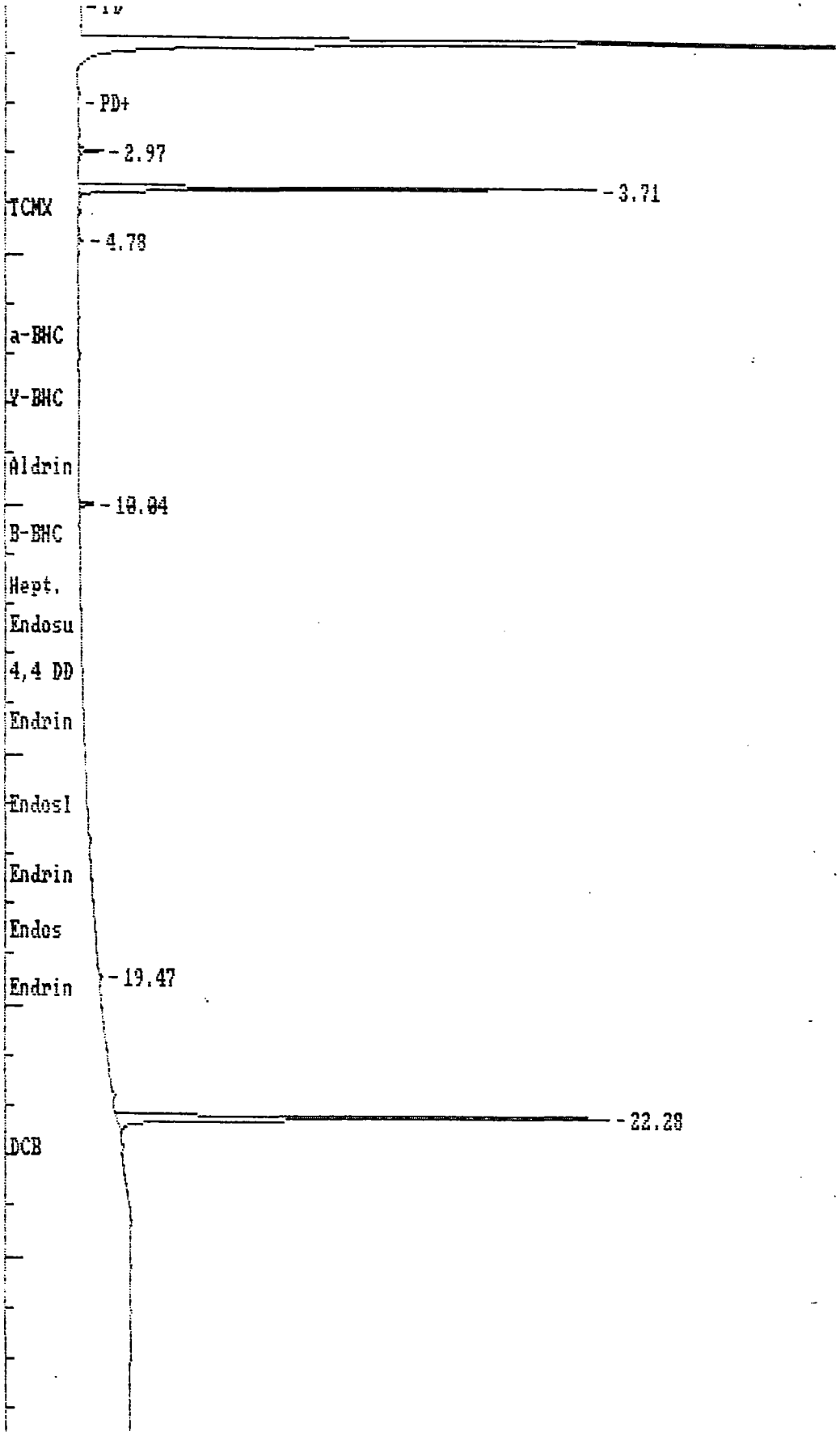
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.973		0.0000	0.0015%	13563	3106	4.4	1			1.0000E-09
2	3.707		0.0003	0.0320%	279773	68154	4.1	1			1.0000E-09
3	4.776		0.0000	0.0003%	2760	670	4.1	1			1.0000E-09
4	10.037		0.0000	0.0011%	9244	1813	5.1	1			1.0000E-09
5	19.472	Endrin ket	0.8745	99.9278%	2129	381	5.6	1	0	-.8543	4.1071E-04
6	22.278		0.0003	0.0373%	326758	64790	5.0	1			1.0000E-09

TOTAL AMOUNT = 0.8751

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:KR22D29.ATB
Data File = D:KR22D29.PTS Printed on 01-23-1996 at 12:35:02
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



4A
METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: EMSL Analytical Contract:

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

Lab File ID: D:FB02D15 Lab Sample ID: MB 96-2

Instrument ID: EPC Date Analyzed: 2/2/96

Matrix: (soil/water) Water Time Analyzed: 17:55

Level: (low/med) low

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		96-2188 MS	D:FB02D11	2/2/96
02		96-2188 MSD	D:FB02D12	2/2/96
03		96-2188	D:FB02D9	2/2/96
04				
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COMMENTS:

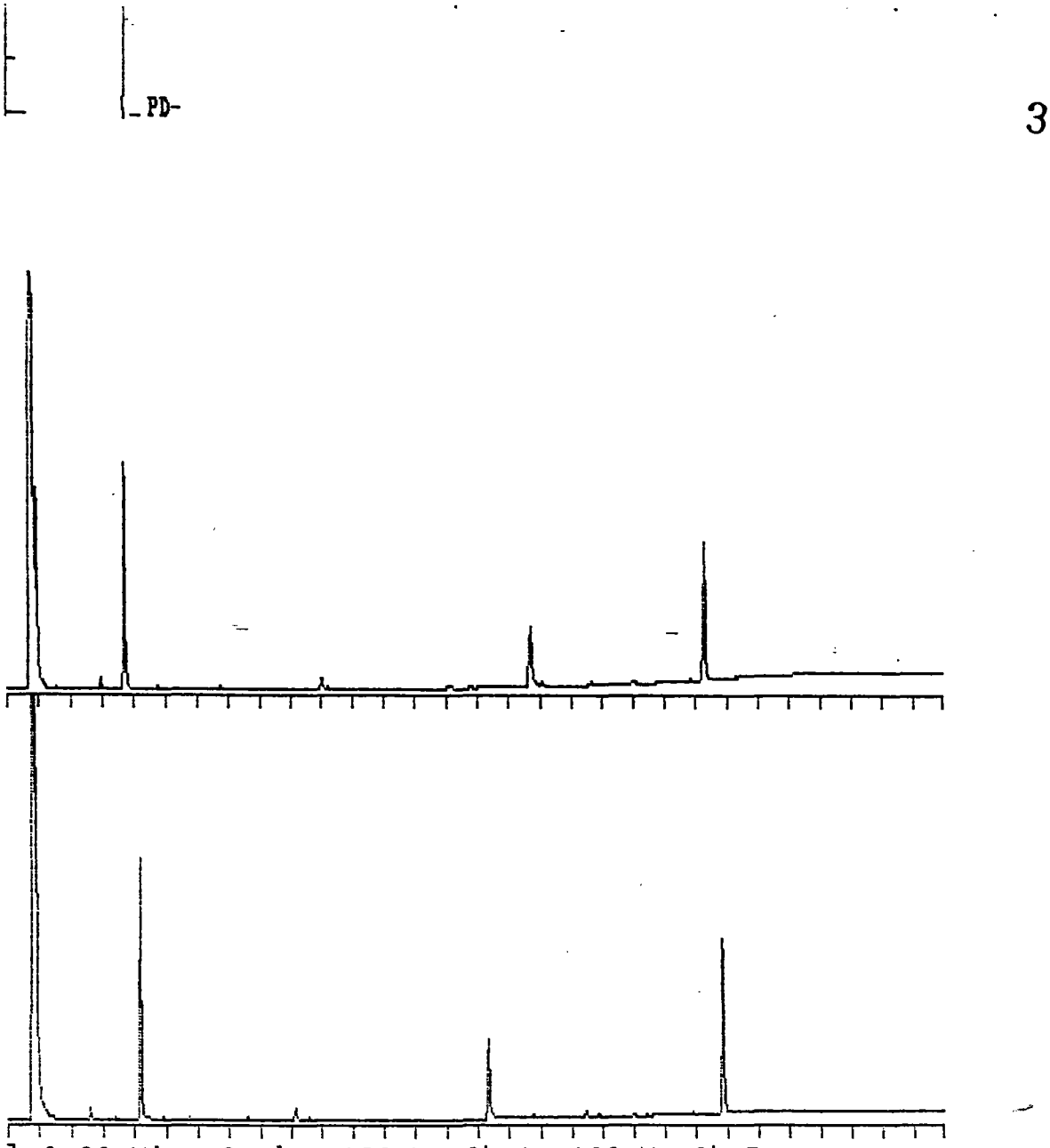
1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name:	EMSL	Contract:	
Lab Code:	Case No.:	SAS No.:	SDG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	mb 96-2
Sample wt/vol:	1000 (g/mL) ml	Lab File ID:	d:fb02d15
% Moisture:	na decanted: (Y/N) N	Date Received:	
Extraction: (SepF/Cont/Sonc)	sepf	Date Extracted:	01/23/96
Concentrated Extract Volume:	10 (ml)	Date Analyzed:	02/02/96
Injection Volume:	1 (uL)	Dilution Factor:	1
GPC Cleanup: (Y/N)	N pH:	Sulfur Cleanup: (Y/N)	Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
319-84-6	alpha-BHC	0.02	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.02	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.02	U
1024-57-3	Heptachlor epoxide	0.02	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.04	U
50-29-3	4,4'-DDT	0.04	U
72-43-5	Methoxychlor	0.08	U
53494-70-5	Endrin ketone	0.04	U
7421-36-3	Endrin aldehyde	0.04	U
57-74-9	Chlordane	0.08	U
8001-35-2	Toxaphene	1	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	1	U
53469-21-9	Aroclor-1242	1	U
12672-29-6	Aroclor-1248	1	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
BLK 96-2 P Processed: 02-02-1996 18:25:42, segment 11, cycle 15
RAW DATA SAVED IN FILE D:FB02D15.PTS Second Channel Stored in D:GB02D15.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 18:26:34 Version 5.1.5 **********
* Sample Name: BLK 96-2 PP Data File: D:FB02D15 *
* Date: 02-02-1996 17:55:08 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 15 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

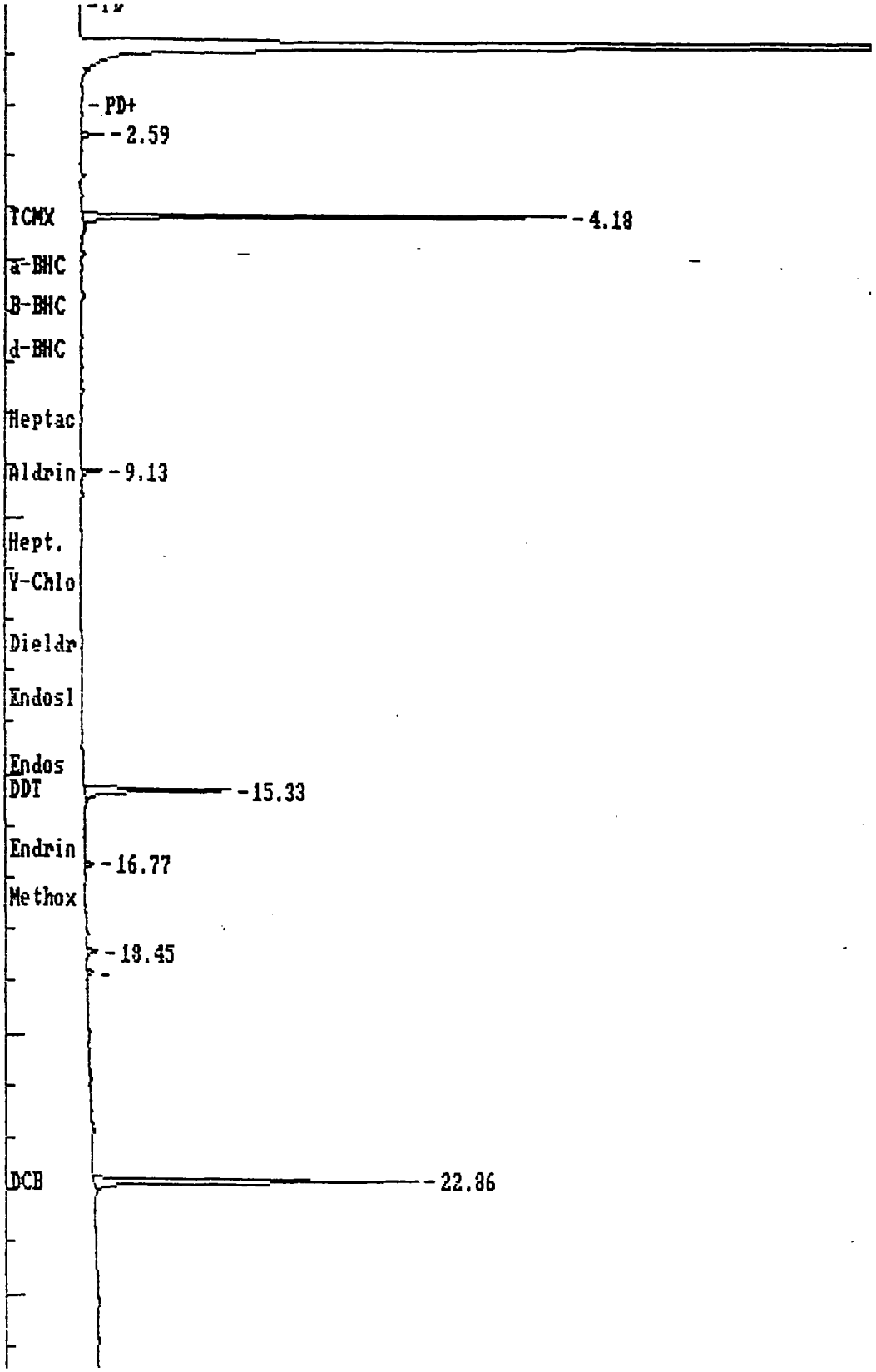
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

2	4.175	TCMX	85.3228	49.4314%	214029	60953	3.5	1	0	-.3579	3.9865E-04
3	9.135	Aldrin	4.2658	2.4714%	11636	2548	4.6	1	0	-.1650	3.6660E-04
4	15.331	DDT	41.1558	23.8434%	93750	18274	5.1	1	0	.1999	4.3899E-04
5	16.767		0.0000	0.0000%	4542	1031	4.4	1			1.0000E-09
6	18.453		0.0000	0.0000%	7554	1404	5.4	1			1.0000E-09
7	18.854		0.0000	0.0000%	3489	744	4.7	1			1.0000E-09
8	22.862	DCB	41.8640	24.2538%	186042	40902	4.5	1	0	0	2.2502E-04

TOTAL AMOUNT = 172.6085

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:FB02D15.ATB
Data File = D:FB02D15.PTS Printed on 02-02-1996 at 18:26:52
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 18:27:08 Version 5.1.5 **********

* Sample Name: BLK 96-2 PP Data File: D:GB02D15 *

* Date: 02-02-1996 17:55:08 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 15 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: - - *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

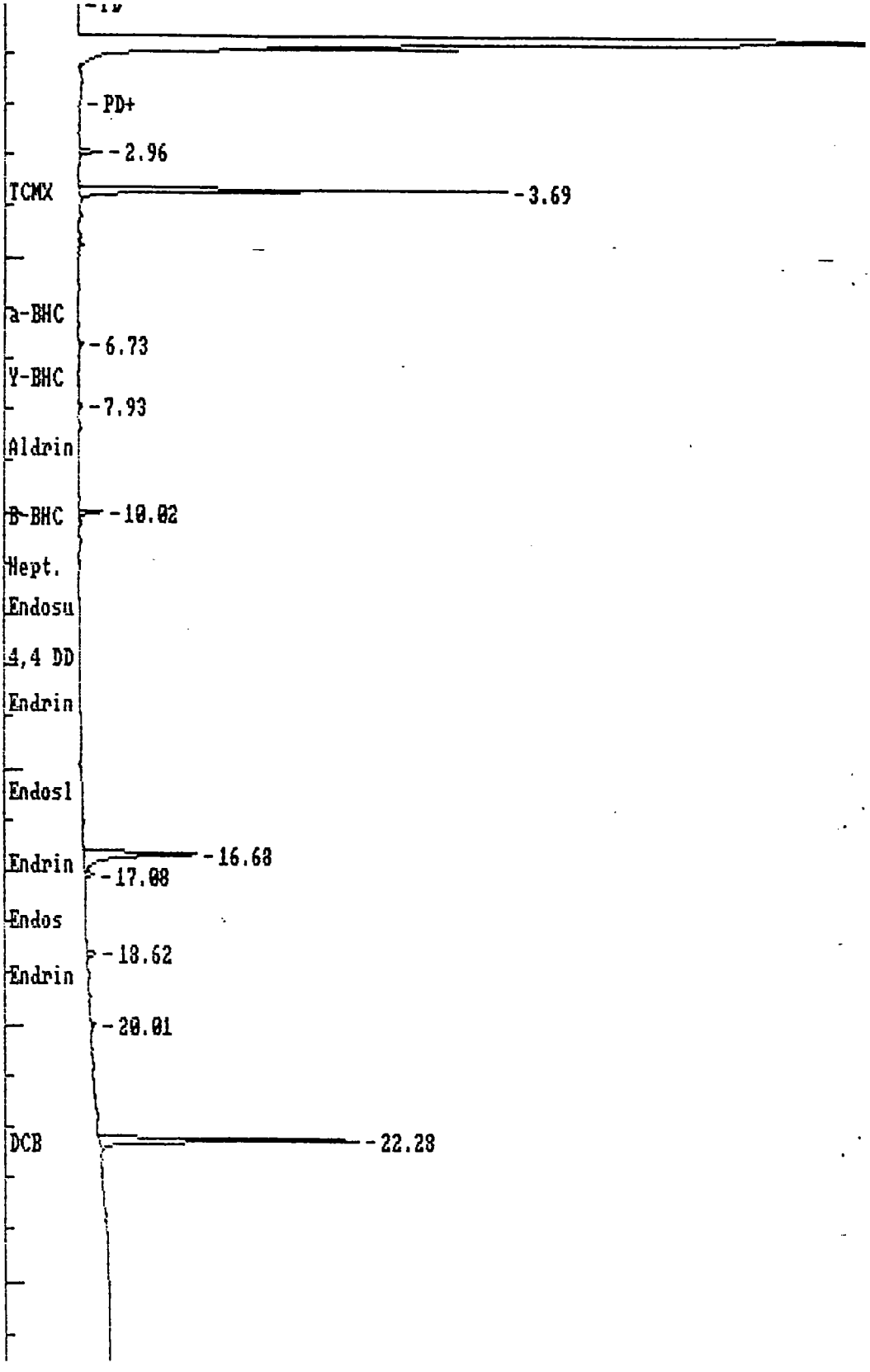
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.956		0.0000	0.0000%	11122	2838	3.9	1			1.0000E-09
2	3.691	TCMX	86.6710	41.2962%	198190	53606	3.7	1	0	-.5202	4.3731E-04
3	6.730		0.0000	0.0000%	2351	461	5.1	1			1.0000E-09
4	7.932	Heptachlor	0.8304	0.3957%	2223	400	5.6	1	0	.2084	3.7349E-04
5	10.020	B-BHC	9.0660	4.3197%	13965	2902	4.8	1	0	-.2985	6.4918E-04
6	16.683	Endrin ald	59.1780	28.1966%	100966	14073	7.2	2	0	-.8127	5.8612E-04
7	17.084		0.0000	0.0000%	5319	1047	5.1	2			1.0000E-09
8	18.621	Methoxychl	5.3564	2.5522%	6271	1062	5.9	1	0	1.363	8.5415E-04
9	20.007		0.0000	0.0000%	2530	517	4.9	1			1.0000E-09
10	22.278	OCB	48.7746	23.2397%	159632	32681	4.9	1	0	0	3.0554E-04

TOTAL AMOUNT = 209.8765

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:GB02D15.ATB
Data File = D:GB02D15.PTS Printed on 02-02-1996 at 18:27:26
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: EMSL Contract:

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

Matrix Spike - EPA Sample No.: 96-2188

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC	#	QC. LIMITS REC.
gamma-BHC(Lindane)	0.05	U	0.06	120		56-123
Heptachlor	0.05	U	0.04	80		40-131
Aldrin	0.05	U	0.05	100		40-120
Dieldrin	0.05	U	0.05	100		52-126
Endrin	0.05	U	0.05	100		56-121
4,4'-DDT	0.05	U	0.04	80		38-127

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.05	0.057	114		10		15	56-123
Heptachlor	0.05	0.042	80		0		20	40-131
Aldrin	0.05	0.051	102		2		22	40-120
Dieldrin	0.05	0.053	106		6		18	52-126
Endrin	0.05	0.056	112		11		21	56-121
4,4'-DDT	0.05	0.047	94		11		27	38-127

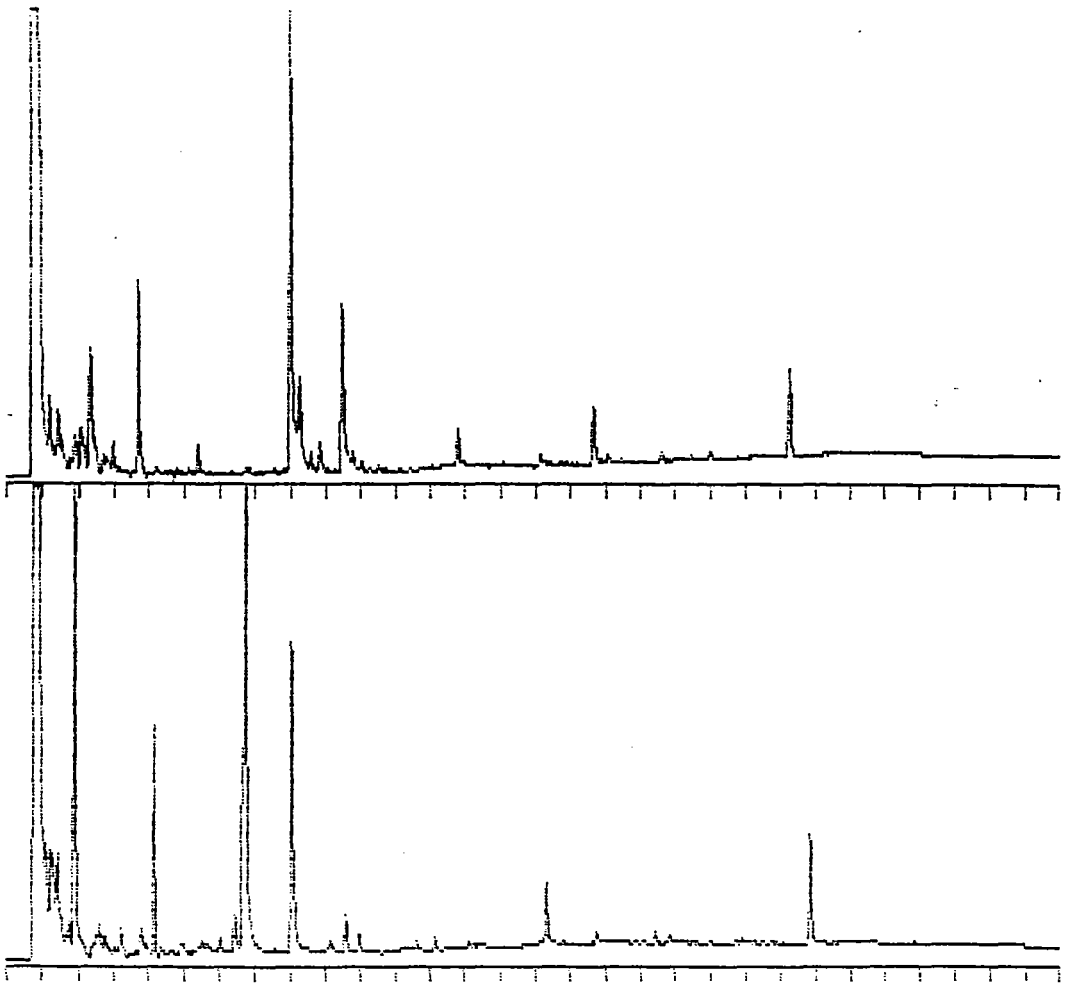
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
96-2188 PP Processed: 02-02-1996 15:01:17, segment 5, cycle 9
RAW DATA SAVED IN FILE D:FB02D9.PTS Second Channel Stored in D:GB02D9.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 15:02:09 Version 5.1.5 **********
* Sample Name: 96-2188 PP Data File: D:FB02D9 *
* Date: 02-02-1996 14:30:43 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 9 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *
****
* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *
****

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

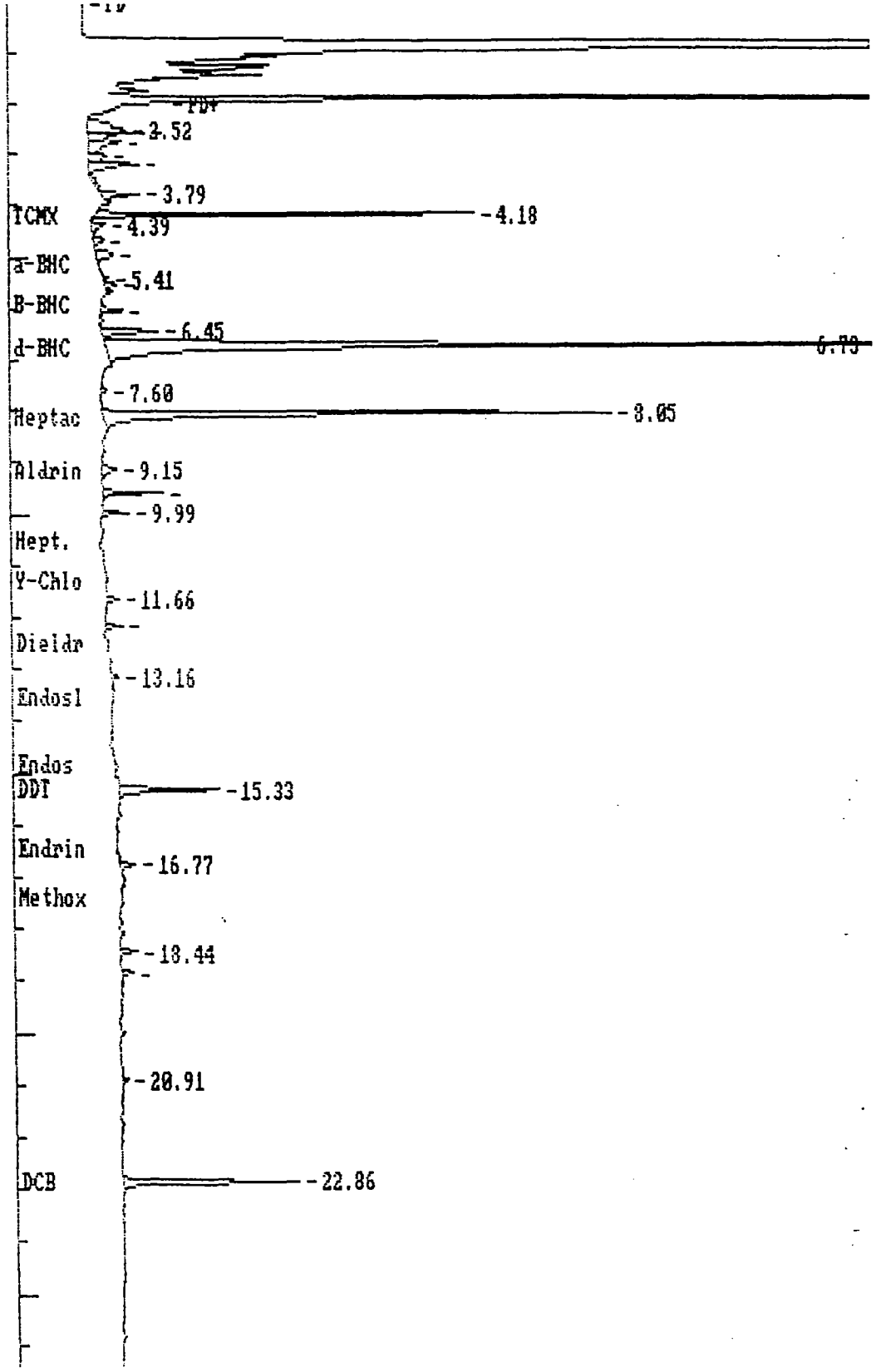
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED	AREA/	REF	% DELTA

2	2.389		0.0000	0.0000%	36483	7182	5.1	2		1.0000E-09
3	2.772		0.0000	0.0000%	36409	4127	8.8	2		1.0000E-09
4	3.039		0.0000	0.0000%	17838	2222	8.0	2		1.0000E-09
5	3.206		0.0000	0.0000%	36657	6300	5.8	2		1.0000E-09
6	3.791		0.0000	0.0000%	26340	4773	5.5	1		1.0000E-09
7	4.175	TCMX	58.1225	10.5968%	145798	47843	3.0	1	0	-.3579	3.9888E-04
8	4.392		0.0000	0.0000%	12444	1715	7.3	2			1.0000E-09
9	4.693		0.0000	0.0000%	8805	1196	7.4	2			1.0000E-09
10	4.943		0.0000	0.0000%	18307	2153	8.5	1			1.0000E-09
11	5.411		0.0000	0.0000%	2725	751	3.6	2			1.0000E-09
12	5.544		0.0000	0.0000%	6906	1444	4.8	2			1.0000E-09
13	6.045	Y-BHC	4.7412	0.8644%	13819	2775	5.0	1	0	.5890	3.4312E-04
14	6.446		0.0000	0.0000%	39162	7143	5.5	2			1.0000E-09
15	6.730	d-BHC	334.7525	61.0317%	661984	108765	6.1	2	0	-.4423	5.0568E-04
16	7.598		0.0000	0.0000%	3405	768	4.4	1			1.0000E-09
17	8.049	Heptachlor	92.3845	16.8434%	301910	64348	4.7	1	0	-.6246	3.0600E-04
18	9.152	Aldrin	5.8928	1.0744%	16074	1689	8.5	1	0	0	3.6660E-04
19	9.586		0.0000	0.0000%	32585	7660	4.3	1			1.0000E-09
20	9.987		0.0000	0.0000%	13892	3511	4.0	1			1.0000E-09
21	11.657	Endosulfan I	2.5212	0.4597%	7398	1532	4.8	1	0	.3149	3.4080E-04
22	12.174		0.0000	0.0000%	10765	2262	4.8	1			1.0000E-09
23	13.160	Endrin	1.2230	0.2230%	3656	886	4.1	1	0	0	3.3450E-04
24	15.331	DDT	26.0299	4.7457%	59294	12590	4.7	1	0	.1999	4.3899E-04
25	16.767		0.0000	0.0000%	9398	1950	4.8	1			1.0000E-09
26	18.437		0.0000	0.0000%	9848	2136	4.6	1			1.0000E-09
27	18.854		0.0000	0.0000%	7787	1514	5.1	1			1.0000E-09
28	20.908		0.0000	0.0000%	3793	688	5.5	1			1.0000E-09
29	22.862	DCB	22.8216	4.1608%	101418	22265	4.6	1	0	0	2.2502E-04

TOTAL AMOUNT = 548.4895

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:FB0209.ATB
Data File = D:FB0209.PTS Printed on 02-02-1996 at 15:02:30
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 15:02:49 Version 5.1.5 **********

* Sample Name: 96-2188 PP Data File: D:GB02D9 *

* Date: 02-02-1996 14:30:43 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 9 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

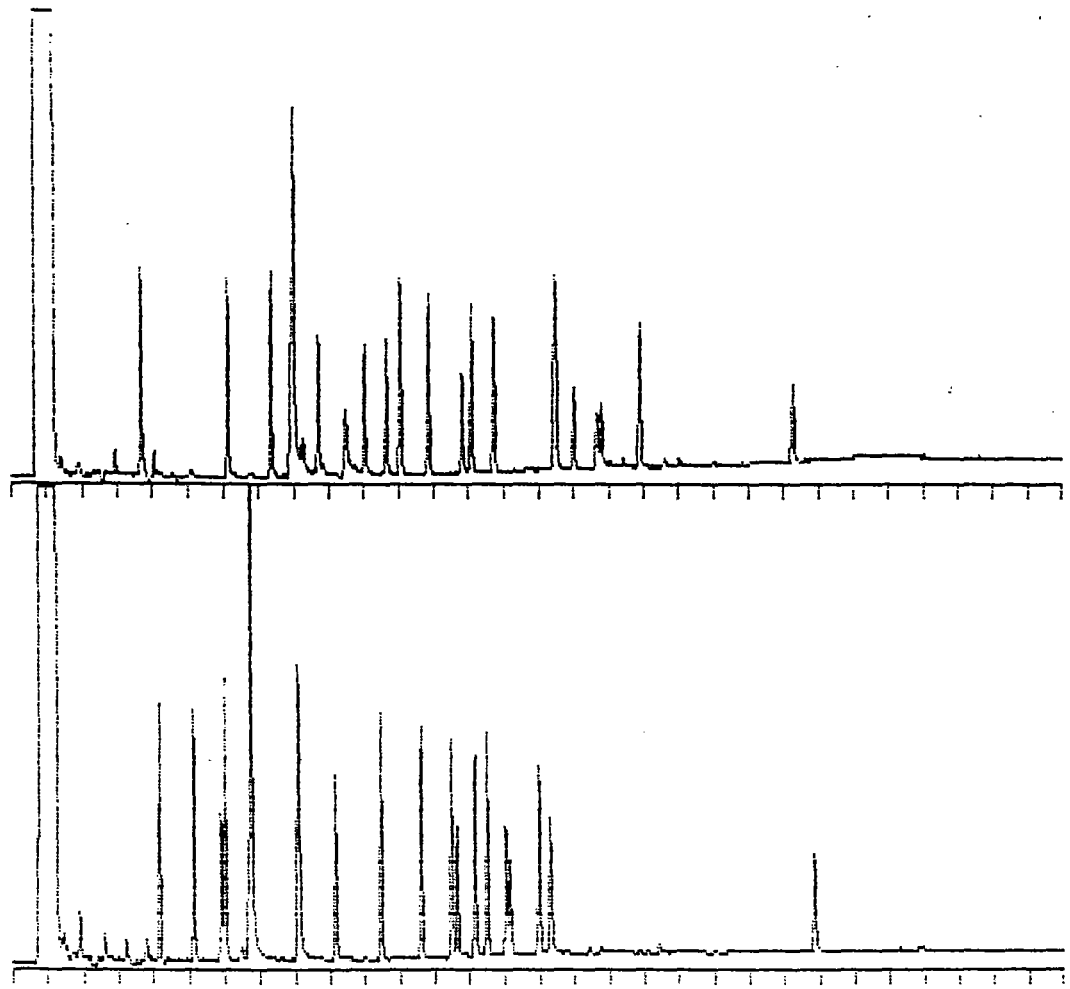
Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.054		0.0001	0.0000%	58544	8399	7.0	2			1.0000E-09
2	2.305		0.0002	0.0000%	177824	25405	7.0	2			1.0000E-09
3	2.672		0.0000	0.0000%	15771	3760	4.2	2			1.0000E-09
4	2.772		0.0000	0.0000%	19466	3018	6.4	2			1.0000E-09
5	2.956		0.0000	0.0000%	23478	6181	3.8	2			1.0000E-09
6	3.691	TCMX	79.8449	20.7688%	182580	41720	4.4	1	0	-.5202	4.3731E-04
7	4.025		0.0000	0.0000%	5760	731	7.9	2			1.0000E-09
8	4.208		0.0000	0.0000%	12640	1894	6.7	2			1.0000E-09
9	4.776		0.0000	0.0000%	9583	2380	4.0	1			1.0000E-09
10	5.144		0.0000	0.0000%	2727	790	3.5	1			1.0000E-09
11	5.394		0.0000	0.0000%	24438	5526	4.4	1			1.0000E-09
12	6.313		0.0000	0.0000%	2746	745	3.7	1			1.0000E-09
13	6.713		0.0000	0.0000%	7639	1503	5.1	2			1.0000E-09
14	6.830		0.0000	0.0000%	6044	1394	4.3	2			1.0000E-09
15	7.532		0.0000	0.0000%	5758	1323	4.4	1			1.0000E-09
16	7.816		0.0000	0.0000%	5172	1186	4.4	2			1.0000E-09
17	7.983	Heptachlor	197.9376	51.4863%	529971	102876	5.2	3	0	.8413	3.7349E-04
18	8.250		0.0001	0.0000%	125567	17647	7.1	4			1.0000E-09
19	8.584	Aldrin	9.2644	2.4098%	21885	3882	5.6	2	0	-1.335	4.2332E-04
20	8.834		0.0000	0.0000%	30797	5990	5.1	2			1.0000E-09
21	9.051		0.0000	0.0000%	2432	555	4.4	2			1.0000E-09
22	9.452		0.0002	0.0001%	235996	35399	6.7	3			1.0000E-09
23	9.769		0.0000	0.0000%	13302	2998	4.4	4			1.0000E-09
24	10.020	B-BHC	4.0993	1.0663%	6315	1476	4.3	1	0	-.2985	6.4918E-04
25	10.521	d-BHC	2.9601	0.7699%	5807	1206	4.8	1	0	-1.396	5.0977E-04
26	11.740	Endosulf I	0.8794	0.2288%	2313	417	5.5	1	0	-1.010	3.8028E-04
27	12.809	4,4 DDE	14.5023	3.7722%	33301	7648	4.4	1	0	-.2422	4.3548E-04
28	14.061		0.0000	0.0000%	2185	476	4.6	1			1.0000E-09
29	15.147	EndoslfII	4.0347	1.0495%	9325	1610	5.8	1	0	-1.961	4.3270E-04
30	16.667	Endrin ald	33.9624	8.8341%	57945	11538	5.0	1	0	-.9120	5.8612E-04
31	17.084		0.0000	0.0000%	8122	1687	4.8	1			1.0000E-09



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
96-2188MS Processed: 02-02-1996 16:09:24, segment 7, cycle 11
RAW DATA SAVED IN FILE D:FB02D11.PTS Second Channel Stored in D:GB02D11.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 16:10:16 Version 5.1.5 **********

* Sample Name: 96-2188MS PP Data File: D:FB02D11 *
* Date: 02-02-1996 15:38:49 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 11 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

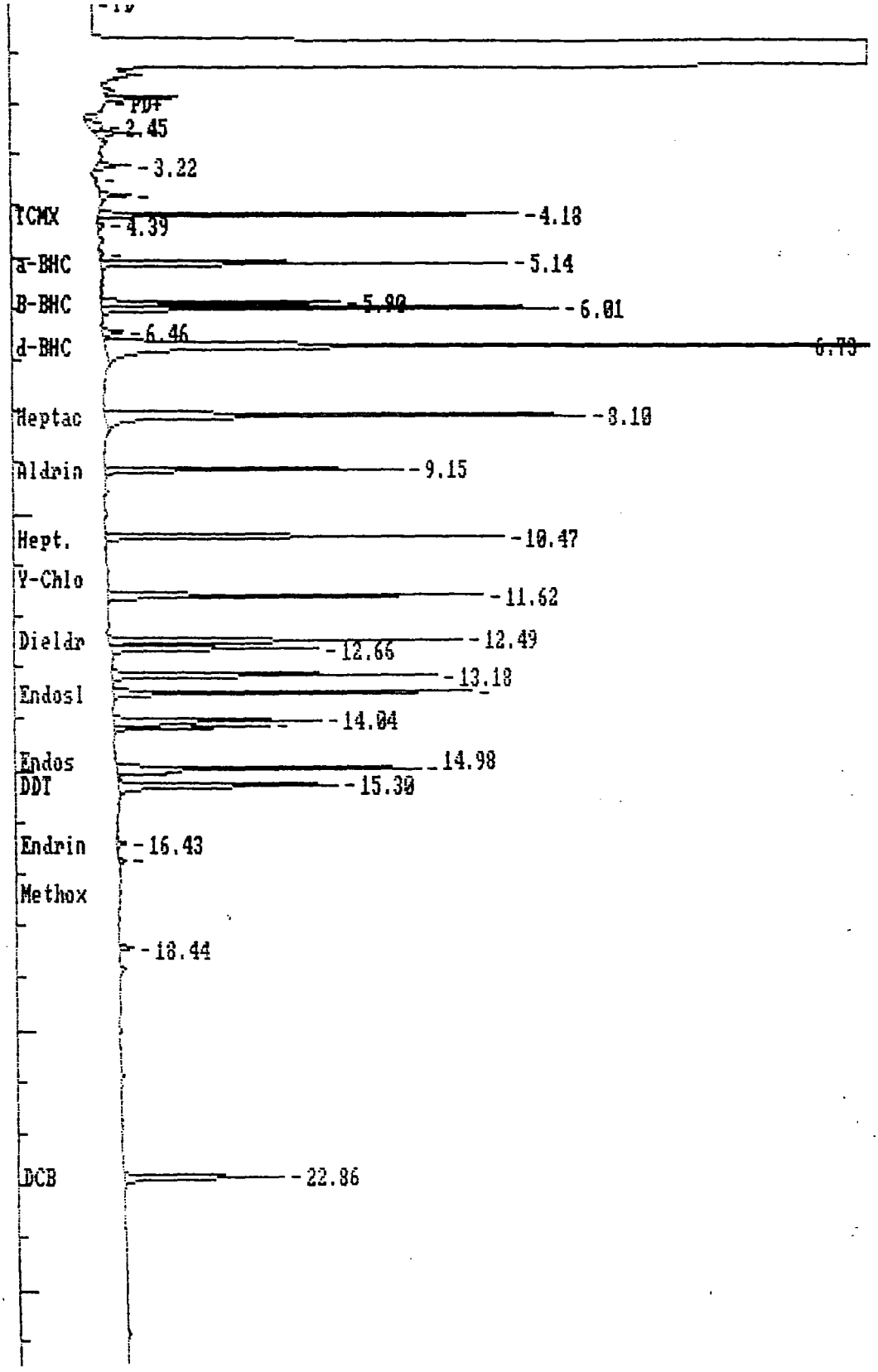
PEAK RET PEAK CONCENTRATION in NORMALIZED AREA/ RF

2	2.587		0.0000	0.0000%	24173	5601	4.3 2			1.0000E-09
3	3.223		0.0000	0.0000%	20492	4569	4.5 1			1.0000E-09
4	3.524		0.0000	0.0000%	3062	406	7.5 1			1.0000E-09
5	3.808		0.0000	0.0000%	19172	3970	4.8 1			1.0000E-09
6	4.175	TCMX	65.0124	5.0238%	163081	53223	3.1 1	0	-.3579	3.9865E-04
7	4.392		0.0000	0.0000%	4993	828	6.0 1			1.0000E-09
8	4.943		0.0000	0.0000%	2981	598	5.0 1			1.0000E-09
9	5.144	a-BHC	59.9301	4.6310%	165020	51658	3.2 1	0	0	3.6317E-04
10	5.995	B-BHC	72.0431	5.5671%	111733	30427	3.7 2	0	-.2521	6.4479E-04
11	6.012	Y-BHC	66.7969	5.1617%	194684	58054	3.4 2	0	0	3.4310E-04
12	6.463		0.0000	0.0000%	16557	2704	6.1 2			1.0000E-09
13	6.730	d-BHC	303.9102	23.4844%	600992	120442	5.0 2	0	-.4423	5.0568E-04
14	8.099	Heptachlor	93.4869	7.2241%	305512	60953	5.0 1	0	0	3.0600E-04
15	9.152	Aldrin	51.0780	3.9470%	139329	37839	3.7 1	0	0	3.6660E-04
16	10.471	Hept. epox.	66.1380	5.1108%	184183	50602	3.6 1	0	0	3.5909E-04
17	11.623	Endosulfan I	61.1080	4.7221%	179306	47550	3.8 1	0	0	3.4080E-04
18	12.492	Dieldrin	51.9119	4.0114%	163921	44887	3.7 2	0	0	3.1669E-04
19	12.659	4,4-DDE	35.6711	2.7564%	101496	26397	3.8 2	0	-.0110	3.5145E-04
20	13.176	Endrin	54.3205	4.1976%	162393	41296	3.9 2	0	.1238	3.3450E-04
21	13.510	Endoslf II	64.0996	4.9532%	174811	45527	3.8 2	0	0	3.6668E-04
22	14.045	4'4-DDD	60.1257	4.6462%	108585	26301	4.1 2	0	-.1088	5.5372E-04
23	14.162	Endrin ald	35.4368	2.7383%	80444	19599	4.1 2	0	-.1156	4.4051E-04
24	14.980	Endos sulf	66.1175	5.1092%	153350	38495	4.0 2	0	0	4.3115E-04
25	15.297	DDT	64.6486	4.9957%	147265	27770	5.3 2	0	-.0183	4.3899E-04
26	16.433	Endrin ket.	1.6816	0.1299%	5233	1232	4.2 1	0	0	3.2132E-04
27	16.767		0.0000	0.0000%	4145	862	4.8 1			1.0000E-09
28	18.437		0.0000	0.0000%	8881	1814	4.9 1			1.0000E-09
29	22.862	DCB	20.5788	1.5902%	91452	20043	4.6 1	0	0	2.2502E-04

TOTAL AMOUNT = 1294.0958

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:FB02D11.ATB
Data File = D:FB02D11.PTS Printed on 02-02-1996 at 16:10:37
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 16:11:24 Version 5.1.5 **********

* Sample Name: 96-2188MS PP Data File: D:GB02D11 *

* Date: 02-02-1996 15:38:49 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *

* Interface: 1 Cycle#: 11 Operator PVL Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *

* Solvent Description: 1.0u df *

* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *

* Detector 0: Detector 1: ECD *

* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00

Area reject: 500 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

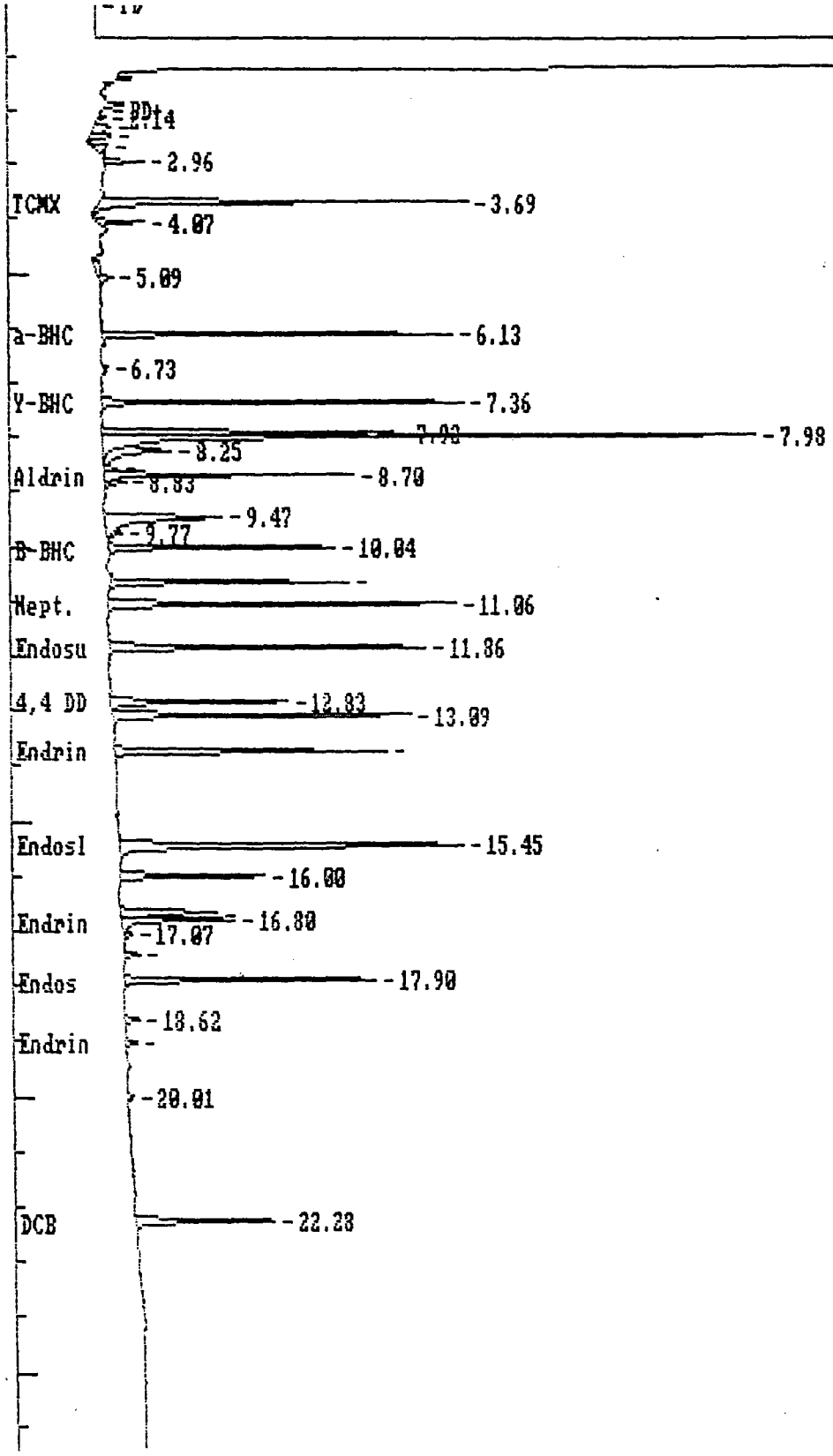
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.138		0.0000	0.0000%	4144	969	4.3	2			1.0000E-09
2	2.321		0.0000	0.0000%	13443	2113	6.4	2			1.0000E-09
3	2.488		0.0000	0.0000%	17278	2646	6.5	2			1.0000E-09
4	2.672		0.0000	0.0000%	10128	1811	5.6	1			1.0000E-09
5	2.956		0.0000	0.0000%	18116	4910	3.7	1			1.0000E-09
6	3.691	TCMX	73.5670	7.7652%	168225	44085	3.8	1	0	-.5202	4.3731E-04
7	4.075		0.0000	0.0000%	21201	5437	3.9	1			1.0000E-09
8	5.093		0.0000	0.0000%	21650	1722	12.6	1			1.0000E-09
9	6.129	a-BHC	52.9115	5.5850%	136069	41999	3.2	1	0	0	3.8886E-04
10	6.730		0.0000	0.0000%	2736	665	4.1	1			1.0000E-09
11	7.365	Y-BHC	55.8952	5.8999%	149418	43352	3.4	1	0	0	3.7409E-04
12	7.916	Heptachlor	40.0570	4.2281%	107251	34760	3.1	2	0	0	3.7349E-04
13	7.983		0.0004	0.0000%	389608	78315	5.0	3			1.0000E-09
14	8.250		0.0001	0.0000%	59164	7291	8.1	4			1.0000E-09
15	8.584		0.0000	0.0000%	7412	1606	4.6	4			1.0000E-09
16	8.701	Aldrin	48.1439	5.0817%	113730	29830	3.8	3	0	0	4.2332E-04
17	8.834		0.0000	0.0000%	11920	2290	5.2	4			1.0000E-09
18	9.469		0.0001	0.0000%	110606	13837	8.0	3			1.0000E-09
19	9.769		0.0000	0.0000%	7403	1339	5.5	4			1.0000E-09
20	10.037	B-BHC	68.2299	7.2019%	105102	26914	3.9	2	0	-.1323	6.4918E-04
21	10.655	d-BHC	50.4297	5.3230%	98925	28504	3.5	1	0	-.1443	5.0977E-04
22	11.055	Hept. epox.	65.6954	6.9343%	162422	41627	3.9	1	0	0	4.0447E-04
23	11.857	Endosulf I	57.7110	6.0916%	151760	37808	4.0	1	0	0	3.8028E-04
24	12.826	4,4 DDE	39.8489	4.2062%	91505	21070	4.3	2	0	-.1121	4.3543E-04
25	13.093	Dieldrin	54.4662	5.7491%	141368	35636	4.0	2	0	.0213	3.8528E-04
26	13.727	Endrin	54.6707	5.7706%	133695	32486	4.1	1	0	0	4.0892E-04
27	15.447	EndoslfII	104.5394	11.0344%	241600	41037	5.9	1	0	0	4.3270E-04
28	15.999	4,4 DDT	43.4289	4.5840%	71118	17075	4.2	1	0	-.2083	6.1066E-04
29	16.667		0.0001	0.0000%	57506	11344	5.1	2			1.0000E-09
30	16.800	Endrin ald	39.5419	4.1738%	67464	13362	5.0	3	0	-.1177	5.8612E-04
31	17.067		0.0000	0.0000%	4881	889	5.5	4			1.0000E-09
32	17.435		0.0000	0.0000%	8128	1912	4.2	4			1.0000E-09

36	20.007	0.0000	0.0000%	4045	624	6.5	1			1.0000E-09
37	22.278 DCB	23.9774	2.5309%	78474	16381	4.8	1	0	0	3.0554E-04

TOTAL AMOUNT = 947.3923

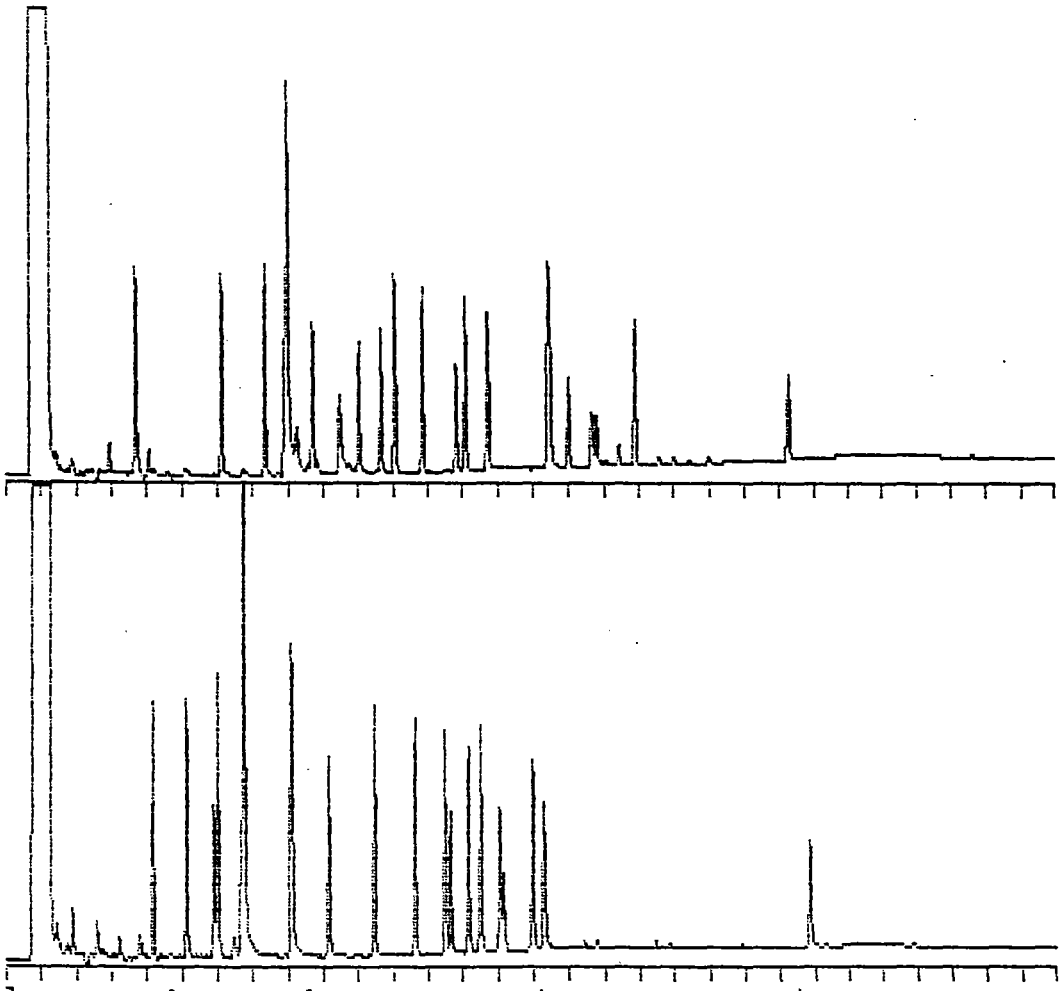
GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:GB02D11.AT8
Data File = D:GB02D11.PTS Printed on 02-02-1998 at 16:11:47
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-

SEQUENCE RECORDED IN D:FB02D.SEQ



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
96-2188MSD Processed: 02-02-1996 16:43:26, segment 8, cycle 12
RAW DATA SAVED IN FILE D:FB02D12.PTS Second Channel Stored in D:GB02D12.PTS

***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 16:44:18 Version 5.1.5 **********

* Sample Name: 96-2188MSD PP Data File: D:FB02D12 *
* Date: 02-02-1996 16:12:51 Method: M:APES-H 01-24-1996 09:29:21 # 377 *
* Interface: 1 Cycle#: 12 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000 *

****

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

****

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

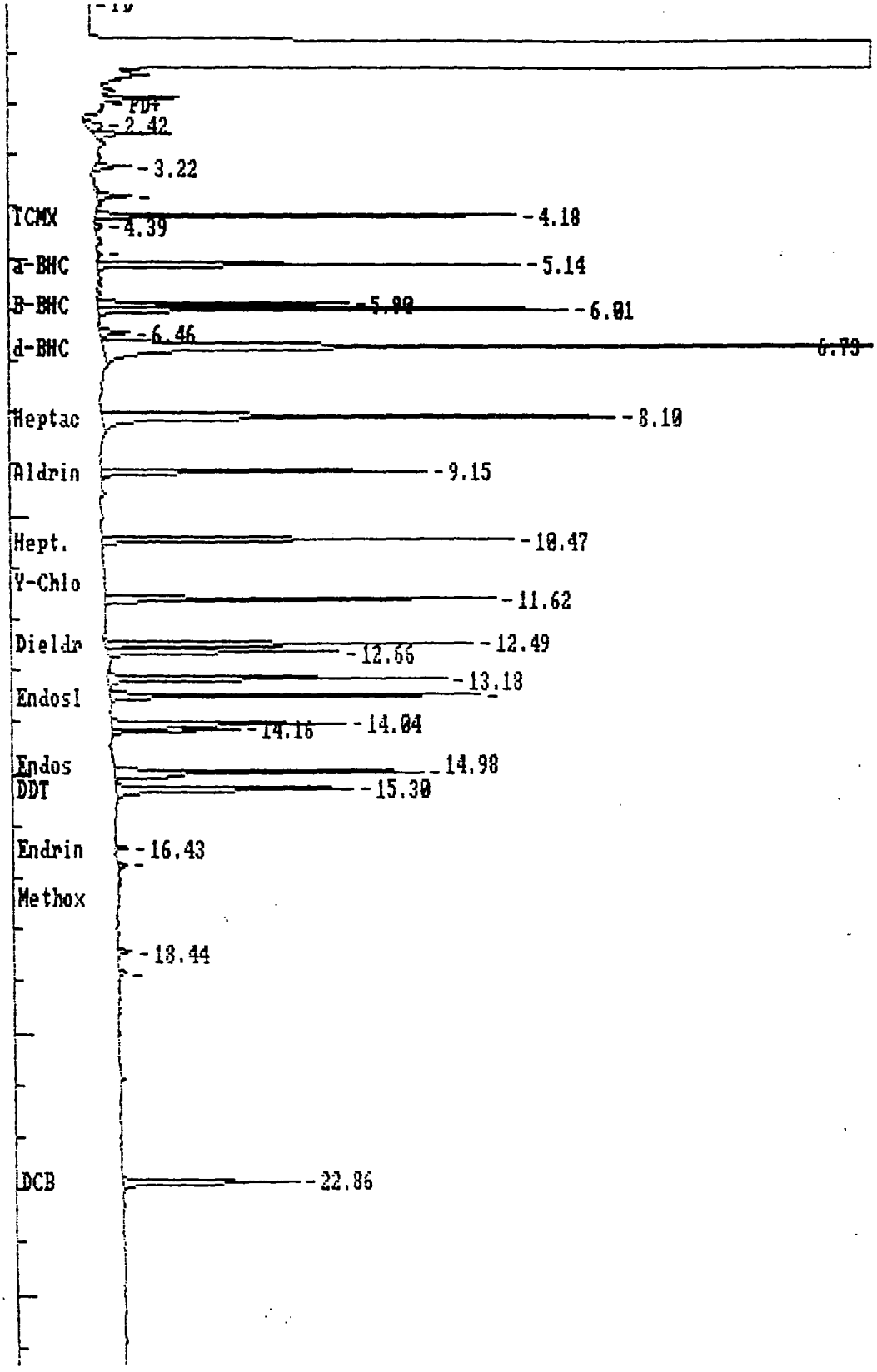
1	2.422		0.0000	0.0000%	14392	1770	8.1 2			1.0000E-09
2	2.589		0.0000	0.0000%	29487	7247	4.1 2			1.0000E-09
3	3.223		0.0000	0.0000%	20081	4630	4.3 1			1.0000E-09
4	3.808		0.0000	0.0000%	24487	4414	5.5 1			1.0000E-09
5	4.175	TCMX	64.5381	4.7651%	161891	53108	3.0 1	0	-.3579	3.9865E-04
6	4.392		0.0000	0.0000%	5926	903	6.6 1			1.0000E-09
7	4.926		0.0000	0.0000%	2993	625	4.8 1			1.0000E-09
8	5.144	a-BHC	60.6697	4.4795%	167057	53340	3.1 1	0	0	3.6317E-04
9	5.895	B-BHC	74.1340	5.4736%	114976	31679	3.6 2	0	-.2521	6.4478E-04
10	6.012	Y-BHC	67.7701	5.0037%	197520	59287	3.3 2	0	0	3.4310E-04
11	6.463		0.0000	0.0000%	21974	3730	5.9 2			1.0000E-09
12	6.730	d-BHC	323.8012	23.9075%	640327	128384	5.0 2	0	-.4423	5.0568E-04
13	8.099	Heptachlor	103.0575	7.6091%	336789	64695	5.2 1	0	0	3.0600E-04
14	9.152	Aldrin	54.5148	4.0250%	148704	41045	3.6 1	0	0	3.6660E-04
15	10.471	Hept. epox.	67.7259	5.0005%	188604	51850	3.6 1	0	0	3.5909E-04
16	11.623	Endosulfan I	63.4103	4.6818%	186061	49201	3.8 1	0	0	3.4080E-04
17	12.492	Dieldrin	53.9521	3.9835%	170364	46437	3.7 2	0	0	3.1669E-04
18	12.659	4,4-DDE	38.6902	2.8567%	110086	29084	3.8 2	0	-.0110	3.5145E-04
19	13.176	Endrin	55.7360	4.1152%	166624	42743	3.9 2	0	.1238	3.3450E-04
20	13.510	Endoslf II	65.8675	4.8633%	179633	46745	3.8 2	0	0	3.6668E-04
21	14.045	4'4-DDD	69.6071	5.1394%	125708	29560	4.3 2	0	-.1088	5.5372E-04
22	14.162	Endrin ald	29.5886	2.1846%	67169	15947	4.2 2	0	-.1156	4.4051E-04
23	14.980	Endos sulf	67.8539	5.0099%	157378	39008	4.0 2	0	0	4.3115E-04
24	15.297	DDT	68.8117	5.0806%	156748	30012	5.2 2	0	-.0183	4.3899E-04
25	16.433	Endrin ket.	2.1327	0.1575%	6637	1558	4.3 1	0	0	3.2132E-04
26	16.767		0.0000	0.0000%	5351	1102	4.9 1			1.0000E-09
27	18.437		0.0000	0.0000%	8170	1715	4.8 1			1.0000E-09
28	18.854		0.0000	0.0000%	4240	859	4.9 1			1.0000E-09
29	22.862	DCB	22.5289	1.6634%	100118	22127	4.5 1	0	0	2.2502E-04

387

TOTAL AMOUNT = 1354.3904

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:FB02D12.ATB
Data File = D:FB02D12.PTS Printed on 02-02-1996 at 16:44:39
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



***** EXTERNAL STANDARD TABLE *****

********** 02-02-1996 16:45:27 Version 5.1.5 **********

* Sample Name: 96-2188MSD PP Data File: D:GB02D12 *
* Date: 02-02-1996 16:12:51 Method: M:BPES-H 01-24-1996 10:39:06 # 370 *
* Interface: 1 Cycle#: 12 Operator PVL Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 500 *

* Instrument Type: Perkin-Elmer 8500 Column Type: RTx-5 30m,.35mm *
* Solvent Description: 1.0u df *
* Conditions: 180 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information: *

Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 500 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.138		0.0000	0.0000%	4194	1029	4.1	2			1.0000E-09
2	2.321		0.0000	0.0000%	13615	2171	6.3	2			1.0000E-09
3	2.488		0.0000	0.0000%	18096	2775	6.5	2			1.0000E-09
4	2.672		0.0000	0.0000%	10120	1977	5.1	1			1.0000E-09
5	2.956		0.0000	0.0000%	23752	6507	3.7	1			1.0000E-09
6	3.691	TCMX	73.1950	7.5373%	167374	44186	3.8	1	0	-.5202	4.3731E-04
7	4.075		0.0000	0.0000%	27061	6051	4.5	2			1.0000E-09
8	4.208		0.0000	0.0000%	9338	1348	6.9	2			1.0000E-09
9	4.776		0.0000	0.0000%	2854	799	3.6	1			1.0000E-09
10	5.093		0.0000	0.0000%	8117	1489	5.5	1			1.0000E-09
11	6.129	a-BHC	53.2629	5.4848%	136972	42653	3.2	1	0	0	3.8886E-04
12	6.730		0.0000	0.0000%	3275	783	4.2	1			1.0000E-09
13	7.365	Y-BHC	56.9177	5.8611%	152152	44928	3.4	1	0	0	3.7409E-04
14	7.916	Heptachlor	42.0105	4.3260%	112482	36395	3.1	2	0	0	3.7349E-04
15	7.983		0.0004	0.0000%	417989	83150	5.0	3			1.0000E-09
16	8.250		0.0001	0.0000%	69472	8793	7.9	4			1.0000E-09
17	8.584		0.0000	0.0000%	10423	2174	4.8	2			1.0000E-09
18	8.701	Aldrin	51.0996	5.2620%	120712	32206	3.7	3	0	0	4.2332E-04
19	8.834		0.0000	0.0000%	14121	2840	5.0	4			1.0000E-09
20	9.469		0.0001	0.0000%	126774	16325	7.8	3			1.0000E-09
21	9.769		0.0000	0.0000%	9028	1551	5.8	4			1.0000E-09
22	10.037	B-BHC	70.0934	7.2179%	107972	27582	3.9	2	0	-.1323	6.4918E-04
23	10.655	d-BHC	52.0744	5.3624%	102152	29907	3.4	1	0	-.1443	5.0977E-04
24	11.055	Hept. epox.	67.2409	6.9242%	166243	42029	4.0	1	0	0	4.0447E-04
25	11.857	Endosulf I	59.1016	6.0860%	155417	38947	4.0	1	0	0	3.8028E-04
26	12.826	4,4 DDE	42.9605	4.4239%	98650	22850	4.3	2	0	-.1121	4.3548E-04
27	13.093	Dieldrin	56.1385	5.7809%	145709	36574	4.0	2	0	.0213	3.8529E-04
28	13.727	Endrin	55.6809	5.7338%	136166	33420	4.1	1	0	0	4.0892E-04
29	15.447	EndoslfII	109.4677	11.2725%	252990	43028	5.9	1	0	0	4.3270E-04
30	15.999	4,4 DDT	47.3847	4.8795%	77596	18843	4.1	1	0	-.2083	6.1066E-04
31	16.667		0.0001	0.0000%	58537	11768	5.0	2			1.0000E-09
32	16.800	Endrin ald	32.0893	3.3044%	54749	10936	5.0	2	0	-.1177	5.8612E-04

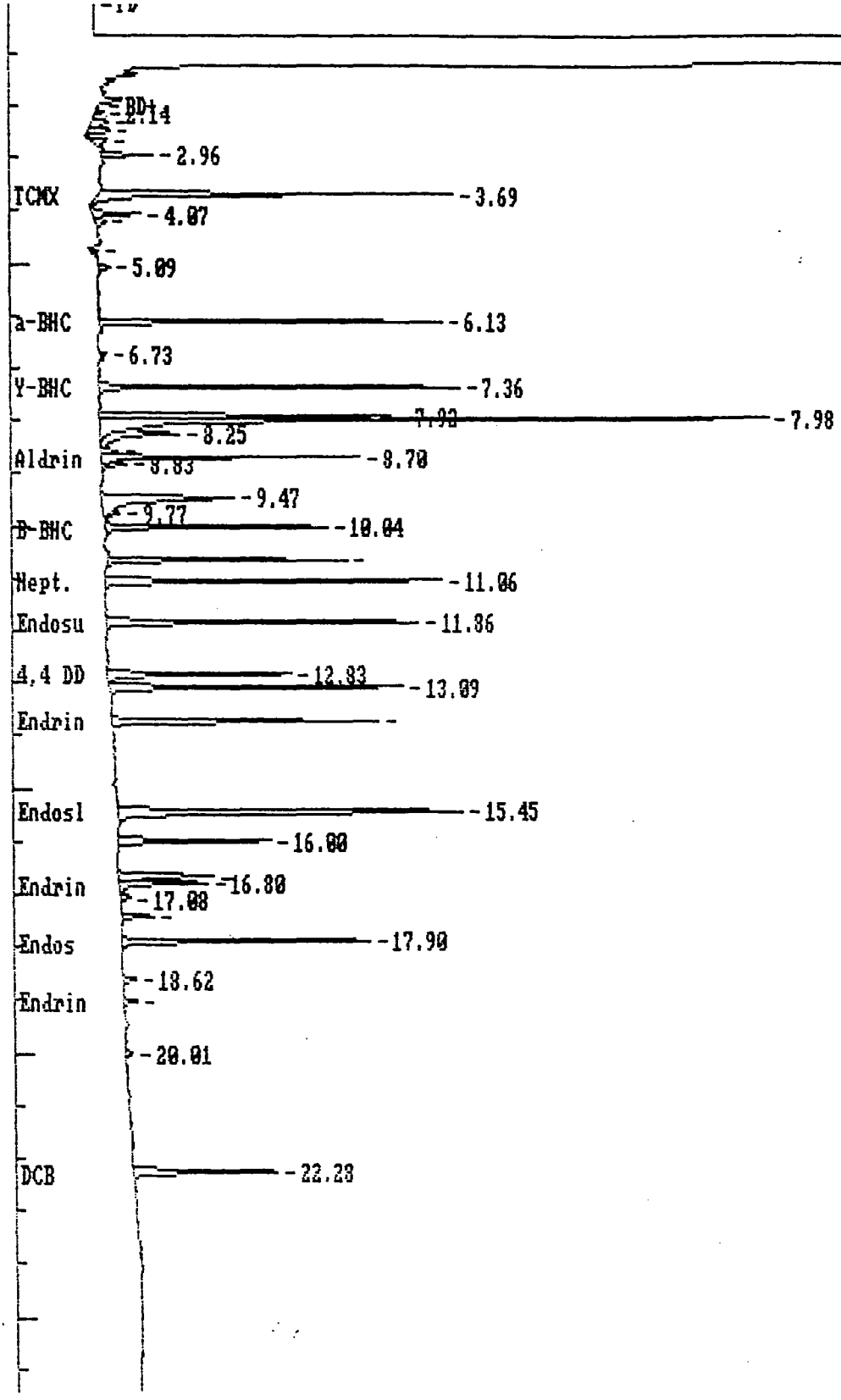
36	18.621	Methoxychl	7.5530	0.7778%	8843	1638	5.4	1	0	1.363	8.5415E-04
37	19.021	Endrin ket	3.2396	0.3336%	7888	1672	4.7	1	0	-.1506	4.1071E-04
38	20.007		0.0000	0.0000%	5178	864	6.0	1			1.0000E-09
39	22.278	DCB	26.1264	2.6904%	85508	17735	4.8	1	0	0	3.0554E-04

TOTAL AMOUNT = 971.1062

390

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:GB02D12.ATB
Data File = D:GB02D12.PTS Printed on 02-02-1996 at 16:45:50
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



EMSL

METALS DATA PACKAGE

EMSL

COVER PAGE - METALS ANALYSES DATA PACKAGE

Lab Name: **EMSL ANALYTICAL, INC.** Contract: _____

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

SOW No.: _____

Client Sample ID	Lab Sample ID
MW1-2933761	**95-58311**
Field Blank	**95-58313**

Were ICP interelement corrections applied? Yes/No **YES**

Were ICP background corrections applies? Yes/No **YES**

If yes - were raw data generated before application of background correction? Yes/No **NO**

Comments: **ICP was used**

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Paul Laraia Name: Paul V. Laraia

Date: 2-21-96 Title: Laboratory Manager

EMSL

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Ag-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.050	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank

The following results are for Aluminum-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	2.2	mg/l	MW1-2933761
95 0058313	<0.20	mg/l	Field Blank

The following results are for Arsenic-CLP

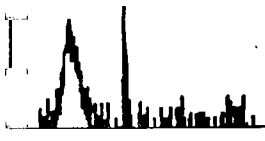
Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0010	mg/l	MW1-2933761
95 0058313	<0.0010	mg/l	Field Blank

The following results are for Barium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	0.055	mg/l	MW1-2933761
95 0058313	<0.020	mg/l	Field Blank

The following results are for Beryllium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0050	mg/l	MW1-2933761
95 0058313	<0.0050	mg/l	Field Blank



EMSL

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Calcium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	4.1	mg/l	MW1-2933761
95 0058313	<0.40	mg/l	Field Blank

The following results are for Cadmium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.010	mg/l	MW1-2933761
95 0058313	<0.010	mg/l	Field Blank

The following results are for Cobalt-CLP

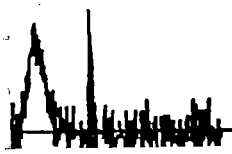
Lab #	Conc.	Unit	Client Designation
95 0058311	<0.050	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank

The following results are for Chromium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.050	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank

The following results are for Copper-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	0.060	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank



Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Iron-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	6.4	mg/l	MW1-2933761
95 0058313	<0.10	mg/l	Field Blank

The following results are for Mercury, CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.00020	mg/l	MW1-2933761
95 0058313	<0.00020	mg/l	Field Blank

The following results are for Potassium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	5.0	mg/l	MW1-2933761
95 0058313	<3.0	mg/l	Field Blank

The following results are for Magnesium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	4.5	mg/l	MW1-2933761
95 0058313	<0.20	mg/l	Field Blank

The following results are for Manganese-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	0.023	mg/l	MW1-2933761
95 0058313	<0.020	mg/l	Field Blank

Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Sodium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	9.2	mg/l	MW1-2933761
95 0058313	<0.40	mg/l	Field Blank

The following results are for Nickel-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.050	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank

The following results are for Lead-CLP

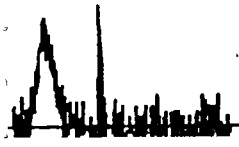
Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0020	mg/l	MW1-2933761
95 0058313	<0.0020	mg/l	Field Blank

The following results are for Antimony-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0050	mg/l	MW1-2933761
95 0058313	<0.010	mg/l	Field Blank

The following results are for Selenium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0050	mg/l	MW1-2933761
95 0058313	<0.0050	mg/l	Field Blank



Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Thallium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.0020	mg/l	MW1-2933761
95 0058313	<0.0020	mg/l	Field Blank

The following results are for Vanadium-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.050	mg/l	MW1-2933761
95 0058313	<0.050	mg/l	Field Blank

The following results are for Zinc-CLP

Lab #	Conc.	Unit	Client Designation
95 0058311	0.18	mg/l	MW1-2933761
95 0058313	0.065	mg/l	Field Blank

EMSL

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: **EMSL Analytical** Contract: _____

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

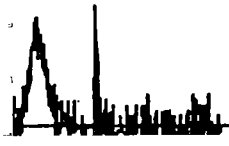
Initial Calibration Source: **Inorganic Ventures**

Continuing Calibration Source: **SPEX**

Concentration Units: **mg/l**

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	
Aluminum	**2.00**	**1.89**	**94.5**	**2.00**	**1.95**	**97.5**			**P**
Antimony	**0.020**	**0.0197**	**98**	**0.020**	**0.0191**	**95**			**F**
Antimony	**0.020**	**0.0190**	**95**	**0.020**	**0.0204**	**102**			**F**
Arsenic	**0.04**	**0.03731**	**93**	**0.04**	**0.03686**	**92**			**F**
Barium	**2.00**	**2.00**	**100**	**2.00**	**1.88**	**94**			**P**
Beryllium	**2.00**	**1.94**	**97**	**2.00**	**1.97**	**98.5**			**P**
Cadmium	**2.00**	**2.00**	**100**	**2.00**	**1.99**	**99.5**			**P**
Calcium	**2.00**	**2.02**	**101**	**2.00**	**2.01**	**100.5**			**P**
Chromium	**2.00**	**2.00**	**100**	**2.00**	**2.04**	**102**			**P**
Cobalt	**2.00**	**2.01**	**100.5**	**2.00**	**1.92**	**96**			**P**
Copper	**2.00**	**2.02**	**101**	**2.00**	**1.90**	**95**			**P**
Iron	**2.00**	**1.97**	**98.5**	**2.00**	**2.01**	**100.5**			**P**
Lead	**0.02**	**0.01996**	**99.8**	**0.02**	**0.02013**	**101**			**F**
Magnesium	**2.00**	**2.04**	**102**	**2.00**	**1.91**	**95.5**			**P**
Manganese	**2.00**	**1.97**	**98.5**	**2.00**	**1.93**	**96.5**			**P**
Mercury	**0.0025**	**0.00276**	**90**	**0.0025**	**0.00264**	**106**			**CV**
Nickel	**2.00**	**2.01**	**100.5**	**2.00**	**1.98**	**99**			**P**
Potassium	**2.00**	**2.10**	**105**	**2.00**	**2.02**	**101**			**P**
Selenium	**2.02**	**0.0186**	**93**	**0.02**	**0.0193**	**96**			**F**
Selenium	**0.020**	**0.0208**	**104**	**0.020**	**0.0201**	**100.5**			**F**
Silver	**2.00**	**1.88**	**94**	**2.00**	**1.87**	**93.5**			**P**
Sodium	**2.00**	**1.84**	**92**	**2.00**	**1.95**	**97.5**			**P**
Thallium	**0.040**	**0.0377**	**94**	**0.040**	**0.042**	**105**			**F**
Vanadium	**2.00**	**1.99**	**99.5**	**2.00**	**1.98**	**99**			**P**
Zinc	**2.00**	**2.01**	**100.5**	**2.00**	**2.04**	**102**			**P**
Cyanide									

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



EMSL

BLANKS

Lab Name: **EMSL ANALYTICAL** Contract: _____

Lab Code: _____ Case No.: _____ AS No.: _____ SDG No.: _____

Preparation Blank Matrix (soil/water): **Water**

Preparation Blank Concentration Units (mg/l or mg/kg): **mg/l**

	Inital Calibration Blank		Continuing Calibration Blank (ug/l)						Preparation Blank		
Analyte	(ug/l)	C	1	C	2	C	3	C		C	M
Aluminum	**35**		**220**						**<0.200**		**P**
Antimony	**1.5**		**2.5**						**<0.005**		**F**
Antimony	**1.1**		**1**						**<0.005**		**F**
Arsenic	**0.63**		**0.09**						**<0.005**		**F**
Barium	**34**		**5**						**<0.020**		**P**
Beryllium	**32**		**5**						**<0.005**		**P**
Cadmium	**35**		**3**						**<0.010**		**P**
Calcium	**37**		**10**						**<0.400**		**P**
Chromium	**35**		**6**						**<0.050**		**P**
Cobalt	**34**		**6**						**<0.050**		**P**
Copper	**40**		**7**						**<0.050**		**P**
Iron	**30**		**8**						**<0.100**		**P**
Lead	**1.5**		**0.52**						**<0.0025**		**P**
Magnesium	**50**		**25**						**<0.100**		**P**
Manganese	**30**		**5**						**<0.020**		**P**
Mercury	**0.1**		**0.015**						**<0.001**		**CV**
Nickel	**35**		**6**						**<0.050**		**P**
Potassium	**110**		**755**						**<3.00**		**P**
Selenium	**0.6**		**0.6**						**<0.005**		**F**
Selenium	**0.5**		**0.5**						**<0.005**		**F**
Silver	**68**		**58**						**<0.05**		**P**
Sodium	**100**		**113**						**<0.400**		**P**
Thallium	**0.19**		**0.68**						**<0.005**		**F**
Vanadium	**35**		**5**						**<0.050**		**P**
Zinc	**40**		**9**						**<0.020**		**P**
Cyanide											

EMSL

SPIKE SAMPLE RECOVERY

Lab Name: **EMSL Analytical** Contract: _____ Lab Sample No.: **95-58311, 95-58313, 95-57859**

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

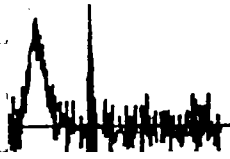
Matrix (soil/water): **Water** Level (low/med) : **Low**

% Solids for Sample: _____

Concentration Units (mg/l or mg/kg dry weight): **mg/l**

	Control Limit	Spiked Sample		Sample Result		Spike Added			
Analyte	%R	Result (SSR)	C	(SR)	C	(SA)	%R	Q	M
Aluminum	**75-125**	**4.43**		**2.19**		**2.00**	**112**		**P**
Antimony	**75-125**	**0.0345**		**0.005**		**0.025**	**118**		**F**
Antimony	**75-125**	**0.0221**		**0.0003**		**0.02**	**109**		**F**
Arsenic	**75-125**	**0.03439**		**0.001**		**0.04**	**83**		**F**
Barium	**75-125**	**1.97**		**0.055**		**2.0**	**96**		**P**
Beryllium	**75-125**	**1.94**		**0.0**		**2.0**	**97**		**P**
Cadmium	**75-125**	**1.96**		**0.004**		**2.0**	**98**		**P**
Calcium	**75-125**	**5.96**		**4.07**		**2.0**	**95**		**P**
Chromium	**75-125**	**1.98**		**0.035**		**2.0**	**97**		**P**
Cobalt	**75-125**	**1.98**		**0.005**		**2.0**	**99**		**P**
Copper	**75-125**	**2.04**		**0.06**		**2.0**	**99**		**P**
Iron	**75-125**	**8.14**		**6.04**		**2.0**	**105**		**P**
Lead	**75-125**	**0.02066**		**0.00095**		**0.02**	**99**		**F**
Magnesium	**75-125**	**6.81**		**4.51**		**2.0**	**115**		**P**
Manganese	**75-125**	**1.9**		**0.023**		**2.0**	**94**		**P**
Mercury	**75-125**	**0.0058**		**0.00396**		**0.002**	**92**		**CV**
Nickel	**75-125**	**1.96**		**0.018**		**2.0**	**97**		**P**
Potassium	**75-125**	**7.04**		**4.9**		**2.0**	**107**		**P**
Selenium	**75-125**	**0.0094**		**0.0001**		**0.01**	**93**		**F**
Selenium	**75-125**	**0.0114**		**0.0005**		**0.01**	**109**		**F**
Silver	**75-125**	**2.05**		**0.005**		**2.0**	**102**		**P**
Sodium	**75-125**	**11.6**		**9.21**		**2.0**	**120**		**P**
***Thallium**	**75-125**	**0.0124**		**0.002**		**0.05**	**21**		**F**
Vanadium	**75-125**	**1.93**		**0.007**		**2.0**	**96**		**P**
Zinc	**75-125**	**2.12**		**0.18**		**2.0**	**97**		**P**
Cyanide									

Comments: _____



EMSL

DUPLICATES

Lab Name: **EMSL ANALYTICAL** Contract: _____ Lab Sample No.: **95-58311, 95-58313, 95-57859**

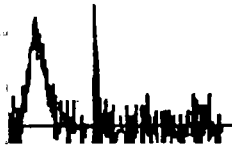
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): **Water** :Level (low/med.): **Low**

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration units (mg/l or mg/kg dry weight): **mg/l**

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	**+/-20%**	**2.19**		**1.92**		**13**		**P**
Antimony	**+/-20%**	**0.005**		**0.005**		**0.0**		**F**
Antimony	**+/-20%**	**0.01**		**0.01**		**0.0**		**F**
Arsenic	**+/-20%**	**0.001**		**0.001**		**0.0**		**F**
Barium	**+/-20%**	**0.055**		**0.057**		**4**		**P**
Beryllium	**+/-20%**	**0.005**		**0.005**		**0.0**		**P**
Cadmium	**+/-20%**	**0.004**		**0.004**		**0.0**		**P**
Calcium	**+/-20%**	**4.07**		**3.99**		**2.0**		**P**
Chromium	**+/-20%**	**0.035**		**0.035**		**0.0**		**P**
Cobalt	**+/-20%**	**0.005**		**0.005**		**0.0**		**P**
Copper	**+/-20%**	**0.06**		**0.062**		**3**		**P**
Iron	**+/-20%**	**6.04**		**5.99**		**0.8**		**P**
Lead	**+/-20%**	**0.002**		**0.002**		**0.0**		**F**
Magnesium	**+/-20%**	**4.51**		**4.44**		**2.0**		**P**
Manganese	**+/-20%**	**0.023**		**0.023**		**0.0**		**P**
Mercury	**+/-20%**	**0.002**		**0.002**		**0.0**		**CV**
Nickel	**+/-20%**	**0.018**		**0.018**		**0.0**		**P**
Potassium	**+/-20%**	**4.9**		**4.7**		**4**		**P**
Selenium	**+/-20%**	**0.005**		**0.005**		**0.0**		**F**
Selenium	**+/-20%**	**0.005**		**0.005**		**0.0**		**F**
Silver	**+/-20%**	**0.005**		**0.005**		**0.0**		**P**
Sodium	**+/-20%**	**9.21**		**9.26**		**0.5**		**P**
Thallium	**+/-20%**	**0.002**		**0.002**		**0.0**		**F**
Vanadium	**+/-20%**	**0.007**		**0.007**		**0.0**		**P**
Zinc	**+/-20%**	**0.18**		**0.189**		**5**		**P**
Cyanide								



LABORATORY CONTROL SAMPLE

Lab Name: **EMSL Analytical** Contract: _____

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

Solid LCS Source: _____

Aqueous LCS Source: **Inorganic Ventures**

Analyte	Aqueous (mg/l) True	Found	% R	Solid (mg/kg) True	Found	C	Limits	% R
Aluminum	**2.00**	**1.90**	**95**				**80-120%**	
Antimony	**0.025**	**0.030**	**120**				**80-120%**	
Antimony	**0.05**	**0.0463**	**93**				**80-120%**	
Arsenic	**0.040**	**0.03626**	**91**				**80-120%**	
Barium	**2.00**	**1.89**	**94**				**80-120%**	
Beryllium	**2.00**	**1.91**	**95**				**80-120%**	
Cadmium	**2.00**	**1.91**	**95**				**80-120%**	
Calcium	**2.00**	**1.92**	**96**				**80-120%**	
Chromium	**2.00**	**1.90**	**95**				**80-120%**	
Cobalt	**2.00**	**1.91**	**95**				**80-120%**	
Copper	**2.00**	**1.98**	**99**				**80-120%**	
Iron	**2.00**	**1.90**	**95**				**80-120%**	
Lead	**0.020**	**0.02021**	**101**				**80-120%**	
Magnesium	**2.00**	**1.87**	**93**				**80-120%**	
Manganese	**2.00**	**1.84**	**92**				**80-120%**	
Mercury	**0.004**	**0.00384**	**96**				**80-120%**	
Nickel	**2.00**	**1.91**	**95**				**80-120%**	
Potassium	**2.00**	**2.19**	**109**				**80-120%**	
Selenium	**0.01**	**0.0103**	**103**				**80-120%**	
Selenium	**0.010**	**0.0110**	**110**				**80-120%**	
Silver	**2.00**	**2.09**	**104**				**80-120%**	
Sodium	**2.00**	**1.96**	**98**				**80-120%**	
Thallium	**0.05**	**0.04870**	**98**				**80-120%**	
Vanadium	**2.00**	**1.89**	**94**				**80-120%**	
Zinc	**2.00**	**2.02**	**101**				**80-120%**	
Cyanide								

Form IX

Q. C. Report No. _____

ICP SERIAL DILUTIONS

LAB NAME EMSL CASE NO. _____

Sample No. _____

DATE 2/96 Lab Sample ID No. 95-58311-13

Units: ug/L

Matrix 9446305

Compound	Initial Sample Concentration(I)	Serial Dilution[1] Result(S)	% Difference[2]
Metals:			
1. Aluminum			
2. Antimony			
3. Arsenic			
4. Barium			
5. Beryllium			
6. Cadmium			
7. Calcium			
8. Chromium			
9. Cobalt	NO Serial dilutions		
10. Copper			
11. Iron	performed NR		
12. Lead			
13. Magnesium			
14. Manganese			
15. Nickel			
16. Potassium			
17. Selenium			
18. Silver			
19. Sodium			
20. Thallium			
21. Vanadium			
22. Zinc			
Other:			

[1] Diluted sample concentration corrected for 1:4 dilution (see Exhibit D)

[2] Percent Difference = $\frac{|I - S|}{I} \times 100$

NR - Not Required, initial sample concentration less than 10 times IDL

NA - Not Applicable, analyte not determined by ICP

Revision 0
Date September 1986

Form IV

Q. C. Report No. _____

ICP INTERFERENCE CHECK SAMPLE

LAB NAME EMSL

CASE NO. _____

DATE 2/96

Check Sample I.D. 95 583II-13

Check Sample Source _____

Units: ug/L

99HES005

Compound	Control Limits[1] Mean	Control Limits[1] Std. Dev.	True[2]	Initial Observed	%R	Final Observed	%R
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium			0.300	0.323	108	0.292	97
5. Beryllium			0.100	0.103	103	0.090	90
6. Cadmium			0.300	0.336	112	0.302	101
7. Calcium							
8. Chromium			0.300	0.315	105	0.298	99
9. Cobalt			0.300	0.326	109	0.301	100
10. Copper			0.300	0.288	96	0.282	94
11. Iron							
12. Lead							
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel			0.300	0.316	105	0.297	99
17. Potassium							
18. Selenium							
19. Silver			0.300	0.307	102	0.284	95
20. Sodium							
21. Thallium							
22. Vanadium			0.300	0.323	108	0.290	97
23. Zinc			0.300	0.286	95	0.263	88
Other: _____							

[1] Mean value based on n = _____.

[2] True value of EPA ICP Interference Check Sample or contractor standard.

Revision 0
Date September 1986

GENERAL CHEMISTRY ANALYSIS DATA PACKAGE

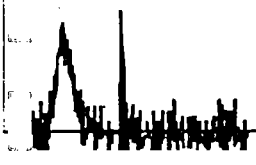
Attention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth, NJ 07703

Project #: 95129581
Date Received: 12/18/95 16:00

Customer Project No. MW Sampling Bldg 290

The following results are for Total Cyanide

Lab #	Conc.	Unit	Client Designation
95 0058311	<0.010	mg/l	MW1-2933761
95 0058313	<0.010	mg/l	Field Blank



EMSL

BLANKS

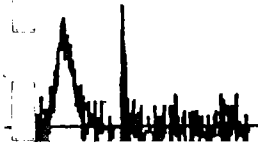
Lab Name: **EMSL Analytical** Contract: _____

Lab Code: _____ Case No.: _____ AS No.: _____ SDG No.: _____

Preparation Blank Matrix (Soil/Water): **Water**

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

Analyte	Initial Calib. Blank (ug/l)	C	Continuing Calibration Blank (ug/l) 1	C	2	C	3	C	Preparation Blank	C	M
T. Cyanide									**<0.01**		



SPIKE SAMPLE RECOVERY

Lab Name: **EMSL Analytical** Contract: _____ Lab Sample No.: **95-58378**

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

Matrix (soil/water): **Water** Level (low/med) : _____

% Solids for Sample: _____

Concentration Units (mg/l or mg/kg dry weight): **mg/l**

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
T. Cyanide	**75-125**	**0.149**		**0**		**0.180**	**83**		

Comments: _____

DUPLICATES

Lab Name: **EMSL ANALYTICAL** Contract: _____ Lab Sample No.: **95-58378**

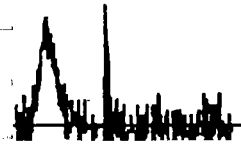
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): **Water** :Level (low/med.): _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration units (mg/l or mg/kg dry weight): **mg/l**

Analyte	Control Limit	Sample(S)	C	Duplicate(D)	C	RPD	Q	M
T. Cyanide	**+/-20%**	**0.01**		**0.01**		**NC**		



LABORATORY CONTROL SAMPLE

Lab Name: **EMSL Analytical** Contract: _____

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

Solid LCS Source: _____

Aqueous LCS Source: **Various**

Analyte	Aqueous (mg/l)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
T. Cyanide	**0.180**	**0.156**	**87**				**75-125**	

New Jersey Department of Environmental Protection
Division of Water Resources
Bureau of Underground Storage Tanks
CN-029, Trenton, New Jersey 08625

LABORATORY AUTHENTICATION STATEMENT

I certify under penalty of law, where applicable, this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18, 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR Part 136, and/or SW 846. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Paul Tarsa

Laboratory Manager (as defined in N.J.A.C. 7:18)

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (908)532-6224 FAX: (908)532-3484
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

ANALYTICAL DATA REPORT
FOR
Directorate of Public Works
Fort Monmouth, NJ 07703

PROJECT : DERA Long Term Monitoring

SAMPLE LOCATION AND IDENTIFICATION

SITE: Bldg. 290

LABORATORY ID #	MONITOR WELL #	NJDEP WELL ID #	SAMPLE DATE
2694.03	MW-1	2930961	06/13/97

NJDEP Laboratory Certification # 13461

Report Date: 7 October, 97

Daniel Wright
Laboratory Director

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: J Fallon
Phone #: x 6223
( )DERA ( )OMA ( )Other:
Project No:
Location: Bldg 290
Samplers Name / Company : Ray Pogwist FTMS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TCL VOA + 15	TAL Metals	TCL BNA + 25	TCL Pest/PCB					Remarks / Preservation Method
2694 1	Trip Blank	6/13/97	0800	AQ	2	X								All Samples kept @ 4°C
2	Field Blank		1045		5	X	X	X	X					(VOA - HCl) (Metals - HNO_3)
3	Bldg 290 MW#1		1125		9	X	X	X	X					# 29-30961 * Add'l IT 10MA QC to Pest/PCB & BNA
														NOTE: MW#2 had Been Paved over
														No Access to well
														Reported to ~~P. Wiltshire~~ C. Appleby

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	6/13/97 1315	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified
Turnaround time: (X)Standard 4 wks, ( )Rush ____ Days, ( )ASAP Verbal ____ Hrs.

Remarks:

print legibly

Custody.xls6/4/97

U.S. ARMY FORT MOMOUTH
MONITORING WELL SAMPLING DATASHEET

BLDG 290
MW# 1
NJDEP ID# 2930961
NJDEP CERT# 13461
SAMPLING CONTRATOR TVS
SAMPLER RAY POGWIST

DATE 6/13/97 WEATHER OVERCAST HUMID 80'S

ELEVATION OF CASING SURVEY MARK 13.90
DTW 7.60
DEPTH OF WELL 13.9
HEIGHT OF WATER 6.3
6.3 X 0.65 X 3 = 12.285
GAL OF H2O TO BE EVACUATED 12.3 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu 0 PPM

PURGE START TIME 10:35
pH 6.32 TEMP 66.3 DEG F
DISSOLVED O2 2.3 PPM SPECIFIC CONDUCTIVITY 526 us/cm

PURGE END TIME 11:15
pH 6.35 TEMP 63.4 DEG F
DISSOLVED O2 2.0 PPM SPECIFIC CONDUCTIVITY 481 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.90 FT
sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 12.3 GAL

pH 6.36 TEMP 63.3 DEG F
DISSOLVED O2 1.9 PPM SPECIFIC CONDUCTIVITY 476 us/cm

COMMENTS: NOTE WELL# 2 FOR BLGD# 290 WAS PAVED OVER

Organic Data Qualifiers

Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

Qualifiers are:

J	Estimated Value
N	Presumptive evidence of a compound
E	Concentration exceeds calibration range
D	Diluted sample
A	TIC is a suspected aldol condensation product

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	**V00947**	Sample Name	**Daily Blank**
Date	**19-Jun-97**	Field ID	**Daily Blank**
Analyst	**Skelton**	Dilution Factor	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00948.d**
Operator **Skelton**
Date Acquired **06/19/97 12:26**

Sample Name **2694.01**
Field ID **Trip Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00949.d**
Operator **Skelton**
Date Acquired **06/19/97 13:16**

Sample Name **2694.02**
Field ID **Field Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **v00955.d**
Operator **Skelton**
Date Acquired **06/19/97 18:35**

Sample Name **2694.03**
Field ID **Bldg 290 MW1**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Daily Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Daily Blank

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00947.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: not dec. Date Analyzed: 06/19/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Trip Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2694.01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00948.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: not dec. Date Analyzed: 06/19/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **Field Blank**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2694.02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00949.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: not dec. Date Analyzed: 06/19/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 032357-83-8	Ether, hexyl pentyl	36.96	5	JN

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID: **MW1**

Lab Name: FMETL Project

NJDEP # 13461 Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2694.03

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V00955.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: not dec. Date Analyzed: 06/19/97

GC Column: RTX-502 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 4

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	13.89	52	JN
2. 000091-20-3	Naphthalene	31.03	18	JN
3. 000112-95-8	Eicosane	35.08	7	JN
4. 000629-78-7	Heptadecane	36.94	14	JN

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name	**BN0227.D**	Sample Name	**Extraction Blank 06/18/97**
Operator	**Paul Skelton**	Field ID	
Date Acquired	**07/ 3/97 17:24**	Sample Multiplier	**1**

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate			not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.48	258970	2.20 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **bn0236.d**
Operator **Paul Skelton**
Date Acquired **07/ 4/97 01:53**

Sample Name **2694.02**
Field ID **Field Blank**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94	ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected	0.47	ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48	ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18	ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15	ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23	ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16	ug/L	600
	2-Methylphenol			not detected	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61	ug/L	300
	4-Methylphenol			not detected	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36	ug/L	20
67-72-1	Hexachloroethane			not detected	0.33	ug/L	10
98-95-3	Nitrobenzene			not detected	0.46	ug/L	10
78-59-1	Isophorone			not detected	0.35	ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27	ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12	ug/L	20
65-85-0	Benzoic Acid			not detected	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25	ug/L	9
91-20-3	Naphthalene			not detected	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38	ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50	ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42	ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31	ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	0.26	ug/L	
83-32-9	Acenaphthene			not detected	0.26	ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69	ug/L	40
132-64-9	Dibenzofuran			not detected	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	0.27	ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36	ug/L	10

84-66-2	Diethylphthalate			not detected	0.82	ug/L	5000
86-73-7	Fluorene			not detected	0.29	ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23	ug/L	20
103-33-3	Azobenzene			not detected	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82	ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08	ug/L	1
85-01-8	Phenanthrene			not detected	0.18	ug/L	
120-12-7	Anthracene			not detected	0.19	ug/L	2000
84-74-2	Di-n-butylphthalate	20.48	153401	2.83 ug/L	0.23	ug/L	900
206-44-0	Fluoranthene			not detected	0.41	ug/L	300
92-87-5	Benzidine			not detected	1.45	ug/L	50
129-00-0	Pyrene			not detected	0.32	ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47	ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22	ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46	ug/L	60
218-01-9	Chrysene			not detected	0.20	ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51	ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82	ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37	ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32	ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31	ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79	ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28	ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40	ug/L	

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **bn0237.d**
Operator **Paul Skelton**
Date Acquired **07/ 4/97 02:47**

Sample Name **2694.03**
Field ID **Bldg290 MW1**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94	ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected	0.47	ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48	ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18	ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15	ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23	ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16	ug/L	600
	2-Methylphenol			not detected	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61	ug/L	300
	4-Methylphenol			not detected	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36	ug/L	20
67-72-1	Hexachloroethane			not detected	0.33	ug/L	10
98-95-3	Nitrobenzene			not detected	0.46	ug/L	10
78-59-1	Isophorone			not detected	0.35	ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27	ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12	ug/L	20
65-85-0	Benzoic Acid			not detected	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25	ug/L	9
91-20-3	Naphthalene			not detected	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38	ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50	ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42	ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31	ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31	ug/L	
99-09-2	3-Nitroaniline			not detected	0.26	ug/L	
83-32-9	Acenaphthene			not detected	0.26	ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69	ug/L	40
132-64-9	Dibenzofuran			not detected	0.32	ug/L	
100-02-7	4-Nitrophenol			not detected	0.27	ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36	ug/L	10

84-66-2	Diethylphthalate			not detected	0.82	ug/L	5000
86-73-7	Fluorene			not detected	0.29	ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23	ug/L	20
103-33-3	Azobenzene			not detected	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82	ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08	ug/L	1
85-01-8	Phenanthrene			not detected	0.18	ug/L	
120-12-7	Anthracene			not detected	0.19	ug/L	2000
84-74-2	Di-n-butylphthalate	20.48	141256	2.45 ug/L	0.23	ug/L	900
206-44-0	Fluoranthene			not detected	0.41	ug/L	300
92-87-5	Benzidine			not detected	1.45	ug/L	50
129-00-0	Pyrene			not detected	0.32	ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47	ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22	ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46	ug/L	60
218-01-9	Chrysene			not detected	0.20	ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51	ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82	ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37	ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32	ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31	ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79	ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28	ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40	ug/L	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Ext. Blank

Lab Name: FMETL Lab Code 13461

Project _____ Case No.: 2694 Location Bldg29 SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: Extraction Blan

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0227.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: _____ decanted: (Y/N) N Date Analyzed: 07/03/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.21	24	JN
2. 001120-07-6	Nonanamide	27.18	51	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Lab Name: FMETL Lab Code 13461

Project Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2694.02

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0236.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: decanted: (Y/N) N Date Analyzed: 07/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-55-6	Propylene Glycol	3.36	52	JN
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.22	21	JN
3. 000301-02-0	9-Octadecenamide, (Z)-	27.17	34	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET FIELD ID

TENTATIVELY IDENTIFIED COMPOUNDS

MW1

Lab Name: FMETL Lab Code 13461

Project Case No.: 2694 Location B.290 SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 2694.03

Sample wt/vol: 1000 (g/ml) ML Lab File ID: BN0237.D

Level: (low/med) LOW Date Received: 06/13/97

% Moisture: decanted: (Y/N) N Date Analyzed: 07/04/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH: 7

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-55-6	Propylene Glycol	3.35	43	JN
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.22	21	JN
3. 000301-02-0	9-Octadecenamide, (Z)-	27.17	35	JN

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	Extraction Blank
	DPW, SELFM-PW-EV	**Date Rec'd:**	
	Bldg. 173	**Extraction Date:**	6/17/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	7/23/97
Analysis:	EPA Method 608	**Location :**	
Matrix:	Aqueous		
Analyst:	D. Wright	**Field ID:**	
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2694.02
	DPW, SELFM-PW-EV	**Date Rec'd:**	6/13/97
	Bldg. 173	**Extraction Date:**	6/17/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	7/23/97
Analysis:	EPA Method 608	**Location :**	Bldg. 290
Matrix:	Aqueous		Ft. Monmouth
Analyst:	D. Wright	**Field ID:**	Field Blank
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	**Lab. ID # :**	2694.03
	DPW, SELFM-PW-EV	**Date Rec'd:**	6/13/97
	Bldg. 173	**Extraction Date:**	6/17/97
	Ft. Monmouth, NJ 07703	**Analysis Date:**	7/23/97
Analysis:	EPA Method 608	**Location :**	Bldg. 290
Matrix:	Aqueous		Ft. Monmouth
Analyst:	D. Wright	**Field ID:**	MW-1
Ext. Meth:	Sep. Funnel		

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected
MDL = Method Detection Limit
NA = Not Applicable

Column-Primary: Rtx-5 30m/.32mmID/.25um
Column-Confirmation: Rtx-1701 30m/.32mmID/.25um

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
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Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: Method Blank
Sample Received: NA
Sample Matrix: Aqueous

Site: MP-18
Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	7/30/97	ND	0.1	200
Antimony	7/8/97	ND	0.5	20
Arsenic	7/7/97	ND	1.0	8
Barium	7/31/97	ND	0.5	2000
Beryllium	7/9/97	ND	0.06	20
Cadmium	7/8/97	ND	2.0	4
Calcium	7/30/97	ND	30.0	NA
Chromium	7/23/97	ND	0.4	100
Cobalt	7/9/97	ND	20.0	NA
Copper	7/7/97	ND	3.0	1000
Iron	7/9/97	ND	10.0	300
Lead	6/23/97	ND	0.5	10
Magnesium	7/7/97	ND	50.0	NA
Manganese	7/9/97	ND	5.0	50
Mercury	6/27/97	ND	0.2	2
Nickel	7/7/97	ND	10.0	100
Potassium	7/8/97	ND	40.0	NA
Selenium	7/8/97	ND	1.0	50
Silver	7/10/97	26.0*	3.0	20
Sodium	7/8/97	ND	10.0	50000
Thallium	7/8/97	ND	1.0	10
Vanadium	8/4/97	ND	1.0	NA
Zinc	7/7/97	3.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
* = Calibration Blank result greater than GW criteria limit

Report of Analysis
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2694.02
Sample Received: 6/13/97
Sample Matrix: Aqueous

Site: Bldg. 290
Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	7/30/97	10.9	0.1	200
Antimony	7/8/97	ND	0.5	20
Arsenic	7/7/97	ND	1.0	8
Barium	7/31/97	3.7	0.5	2000
Beryllium	7/9/97	0.06	0.06	20
Cadmium	7/8/97	ND	2.0	4
Calcium	7/30/97	80.0	30.0	NA
Chromium	7/23/97	0.8	0.4	100
Cobalt	7/9/97	20.0	20.0	NA
Copper	7/7/97	7.0	3.0	1000
Iron	7/9/97	140.0	10.0	300
Lead	6/23/97	ND	0.5	10
Magnesium	7/7/97	50.0	50.0	NA
Manganese	7/9/97	25.0	5.0	50
Mercury	6/27/97	ND	0.2	2
Nickel	7/7/97	ND	10.0	100
Potassium	7/8/97	27.0	40.0	NA
Selenium	7/8/97	ND	1.0	50
Silver	7/10/97	28.0*	3.0	20
Sodium	7/8/97	ND	10.0	50000
Thallium	7/8/97	ND	1.0	10
Vanadium	8/4/97	ND	1.0	NA
Zinc	7/7/97	9.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
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Client: U.S. Army
DPW, SELFM-PW-EV
Bldg. 173
Ft. Monmouth, NJ 07703

Lab ID #: 2694.03
Sample Received: 6/13/97
Sample Matrix: Aqueous

Site: Bldg. 290
Ft. Monmouth, New Jersey

Field ID#: MW-1

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of Analysis	Result (ug/L)	MDL (ug/L)	GW Criteria (ug/L)
Aluminum	7/30/97	759.7	0.1	200
Antimony	7/8/97	ND	0.5	20
Arsenic	7/7/97	6.0	1.0	8
Barium	7/31/97	16.5	0.5	2000
Beryllium	7/9/97	0.10	0.06	20
Cadmium	7/8/97	ND	2.0	4
Calcium	7/30/97	10030.0	30.0	NA
Chromium	7/23/97	0.7	0.4	100
Cobalt	7/9/97	ND	20.0	NA
Copper	7/7/97	19.0	3.0	1000
Iron	7/9/97	39960.0	10.0	300
Lead	6/23/97	5.4	0.5	10
Magnesium	7/7/97	2780.0	50.0	NA
Manganese	7/9/97	28.0	5.0	50
Mercury	6/27/97	ND	0.2	2
Nickel	7/7/97	ND	10.0	100
Potassium	7/8/97	1470.0	40.0	NA
Selenium	7/8/97	3.0	1.0	50
Silver	7/10/97	30.0*	3.0	20
Sodium	7/8/97	32800.0	10.0	50000
Thallium	7/8/97	ND	1.0	10
Vanadium	8/4/97	1.3	1.0	NA
Zinc	7/7/97	92.0	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable
* = Calibration Blank result greater than GW criteria limit