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 2 OF 3

Bldg. 290 MW Anal.
11/28/95

EMSL ANALYTICAL, INC.

Asbestos - Lead - Environmental - Materials 001

New Jersey

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Seattle, WA 98134
(206) 233-9007

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

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

EMSL Project: # 95118886

Field Sample No. & Location	Laboratory Sample ID	Matrix	Date & Time of Collection	Date Received
1985.1, MW2-2933761	**95-54785**	**Aqueous**	**11/28/95 @ 1021**	**11/28/95**
1985.2, Trip Blank	**95-54783**	**Aqueous**	**11/28/95 @ 0730**	**11/28/95**
1985.3, Field Blank	**95-54784**	**Aqueous**	**11/28/95 @ 1145**	**11/28/95**

Laboratory Name — EMSL ANALYTICAL, INC.

Certification No. — NJDEP No. 04653
PADER No. 68-367
NY-ELAP No. 10896

Supervisor/Manager Signature

Printed Name — Paul V. Laraia

Date — 1-25-96

TABLE OF CONTENTS

TABLE OF CONTENTS, cont.

SAMPLE DATA SUMMARY PACKAGE

EMSL

Date of Report: 01/10/96
Project Number: 95118886
Lab ID: 95-0054785
Date Collected: 11/28/95 10:21
Collected By: Client
Date Received: 11/28/95 17:00

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

Client Project: MW Sampling Bldg.290

Client Designation: MW2-2933761

	Conc.	Unit
LIMITED		
Total Cyanide	<0.010	mg/l
METALS		
Ag-CLP	0.44	mg/l
Aluminum-CLP	0.36	mg/l
Arsenic-CLP	<0.0050	mg/l
Barium-CLP	0.074	mg/l
Beryllium-CLP	<0.0050	mg/l
Calcium-CLP	5.3	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	1.1	mg/l
Mercury, CLP	<0.0010	mg/l
Potassium-CLP	<3.0	mg/l
Magnesium-CLP	4.7	mg/l
Manganese-CLP	0.030	mg/l
Sodium-CLP	11	mg/l
Nickel-CLP	<0.050	mg/l
Lead-CLP	0.0015	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	0.10	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		
Methyl tertiary-butyl ether	see attached	ug/L
tert-Butyl alcohol	see attached	ug/L
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l

006

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW2
29337G1

Lab Name EMSL Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Blg 290

Matrix: (soil/w water Lab Sample I 95-54785

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:DED0143

% Moistu N/A canted: (Y/N) N Date Receive 11/28/95

Extraction: (SepF/Cont/ Cont Date Extract 12/05/95

Concentrated Extract Vo 10 (ml) Date Analyze 12/07/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

9554785B

1985.1

007

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: HW2-293376 / Group: Bldg 290

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9366.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 9554785B 1985-1 008

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Allied-293376 Group: Bldg290

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9366.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.
9554785B
1985.1

003

Lab Name: EMSL ANALYTICAL Contract:

Bldg 290

Project No.: Site: Location: NW2-293761 Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9366.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS Number	Compound Name	RT	Est. Conc	Q
1. 57-10-3	Hexadecanoic acid	23.53	28	J
2.	Unknown Hydrocarbon	32.47	4	J
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# MW2 29337761

010

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

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	2.3	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	1.3	
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# mw2 29337 61 011

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

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# MW2 29337G1 013

Bldg 290

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

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	19.63	1	J
2.	Column Bleed	23.01	1	J
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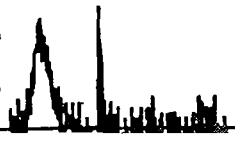
ttention: Barbara O'Toole
E-Systems
P.O. Box 360
Fort Monmouth NJ 07703

Date of Report: 01/18/96
Project Number: 95118885
Lab ID: 95-0054783
Date Collected: 11/28/95 07:30
Collected By: Client
Date Received: 11/28/95 17:00

Client Project: MW Sampling Bldg.1122

lient Designation: Trip Blank

	Conc.	Unit
ORGANIC		
Volatiles		
Methyl tertiary-butyl ether	see attached	ug/L
tert-Butyl alcohol	see attached	ug/L
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 014

Trip Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	3.0	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# 015

Trip Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# 016

Trip Blank

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

Project No. FT. MONMOUTH NJ BLDG#: 1122 NJDEP MW#: TB Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/27/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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-	10.62	3	J
2.	Unknown Hydrocarbon	26.22	1	J
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EMSL

Date of Report: 01/18/96
Project Number: 95118885
Lab ID: 95-0054784
Date Collected: 11/28/95 11:45
Collected By: Client
Date Received: 11/28/95 17:00

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

Client Project: MW Sampling Bldg.1122

lient Designation: Field Blank

	Conc.	Unit
LIMITED		
Total Cyanide	<0.010	mg/l
METALS		
Ag-CLP	0.11	mg/l
Aluminum-CLP	<0.20	mg/l
Arsenic-CLP	<0.0050	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	<0.0010	mg/l
Potassium-CLP	<3.0	mg/l
Magnesium-CLP	<0.20	mg/l
Manganese-CLP	0.032	mg/l
Sodium-CLP	<0.40	mg/l
Nickel-CLP	<0.050	mg/l
Lead-CLP	0.0028	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	0.027	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		
Methyl tertiary-butyl ether	see attached	ug/L
tert-Butyl alcohol	see attached	ug/L
Volatiles by 524.2 w/ Library Search	see attached	ug/l
Xylenes	see attached	ug/l

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB
Bldg 1122

Lab Name EMSL Contract:

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

Matrix: (soil/w water Lab Sample I 95-54784

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:DED0148

% Moistu N/A canted: (Y/N) N Date Receive 11/28/95

Extraction: (SepF/Cont/ Cont Date Extract 12/05/95

Concentrated Extract Vo 10 (ml) Date Analyze 12/07/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.04	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 9554784B Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9365.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

CAS No.	Compound		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. 020

9554784B
Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9365.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 021

9554784B
Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9365.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 5 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1. 95-49-8	Benzene, 1-chloro-2-methyl-	5.70	9	J
2. 106-43-4	Benzene, 1-chloro-4-methyl-	5.93	2	J
3.	Unknown Hydrocarbon	8.09	5	J
4. 57-10-3	Hexadecanoic acid	23.51	12	J
5.	Unknown Hydrocarbon	32.46	2	J
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 022

Field Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	3.1	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	.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# 023

Field Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# Field Blank 024

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

Project No. FT. MONMOUTH NJ BLDG#: 1122 NJDEP MW#: FB Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Column Bleed	10.06	1	J
2.	Unknown	10.62	3	J
3.	Column Bleed	23.02	1	J
4.	Unknown Hydrocarbon	26.22	1	J
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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 Lara

Laboratory Manager or Environmental Consultant's Signature

1-26-96

Date

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.
34-36	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.
37	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 [illegible] Inc.

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

Chain of Custody / Analysis Request Form

EMSL Project # 951184 86
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: Bldg. 290
US ARMY FT.MONMOUTH Charles Appleby SELFM-PW-EV Env.Lab.Cert#13461		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	ONE	11-28-95	

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	4°C	Sampling: Date	Time	Number of Containers	Indicate Analysis Requested: VOA 524 + Library (Include xylene)	BN	pest/PCB	CN	metals (TAL)	Sampling	Laboratory Number
1	1985.1	MW2-2933761		X	X					X	X		X	X	X	11/28	1021	12	X	X	X	X	X	X	54785
2	.2	TRip Blank		X	X					X			X			11/28	0730	3	X						
3	.3	Field Blank		X	X					X	X		X	X	X	11/28	1145	9	X	X	X	X	X		
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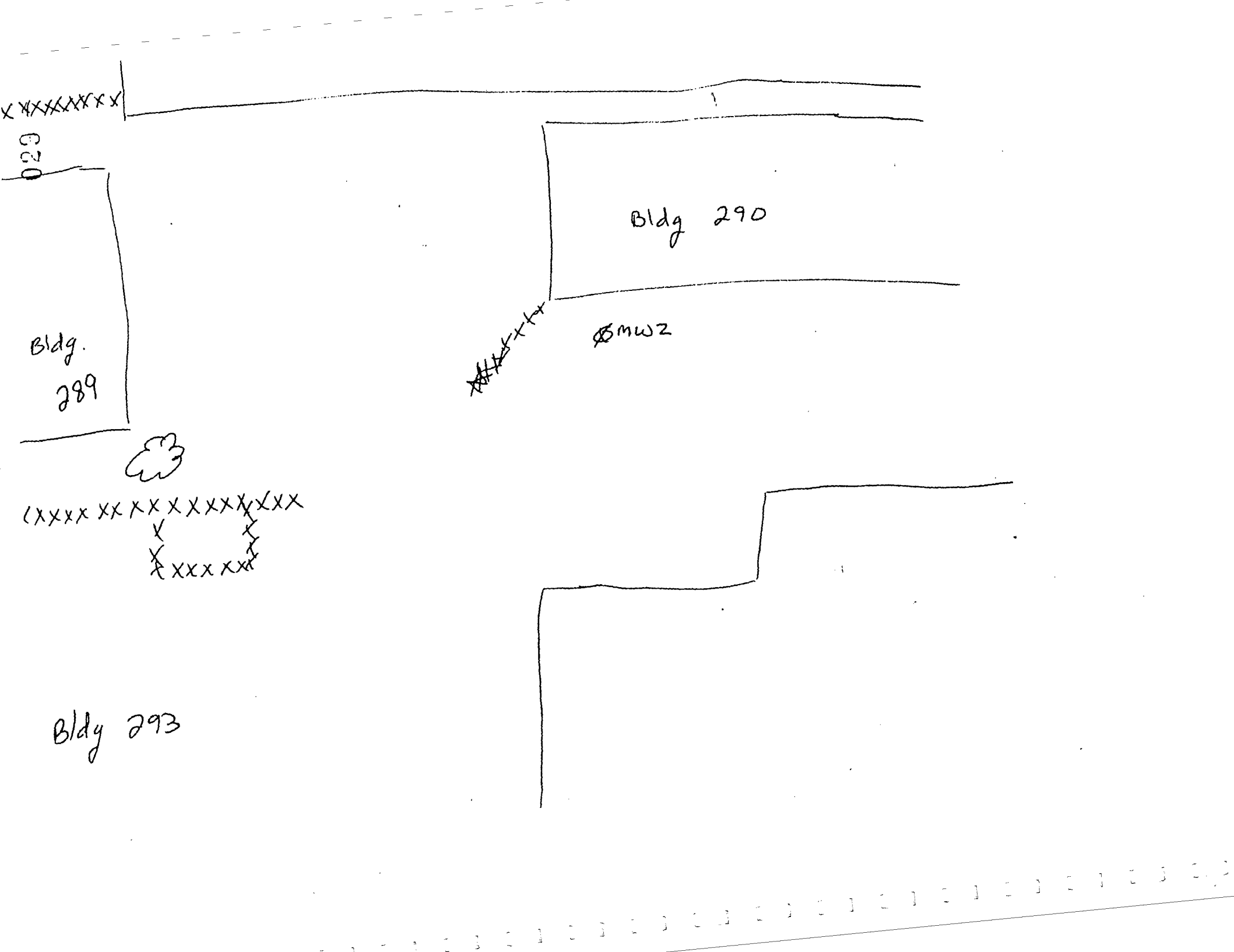
8																									
9																									

Released by (Signature)	Date/Time Released	Delivery Method	Received by (Signature)	Company/Agency Affiliation	Date/Time Received	Condition Noted
S Hubbard	11/28/95 1500	Courier	A Palilonis	EMSL	11/28/95	
	/		M. [illegible]	EMSL	11/28/95 17:00	
	/				/	

Please indicate turnaround time: standard 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


Bldg 290
Bldg. 289
MW2
Bldg 293

INTERNAL CHAIN OF CUSTODY(ORGANICS)

SAMPLE No(S).	ANALYSIS	DATE ANALYZED	NAME (PRINT)	NAME (SIGNATURE)
95 55113	GASOLINE	12/13/95	M. CIAMPI	
95 55089-90	VOA + SPECIAL	12/14/95	M. CIAMPI	
95 55104-112	VOA + LS + TICs	12/13-14/95	M. CIAMPI	
95 55023-27	VOA + LS	12/13-14/95	M. CIAMPI	
95 55028-35	VOA + LS	12/14/95	M. CIAMPI	
95 55036-45	VOA + LS	12/14/95	M. CIAMPI	
9555533-35	8260	12/7/95	S. Kessler	
55164+6	BNA	12/12/95	S. VG	
55563-5	BNA	12/13/95	S. VG	
95 54556	524.2	12/11/95	S. Kessler	
95 54761-86	524.2	12/11/95	S. Kessler	
95555563-66	624	12/13/95	S. Kessler	
95 55876-78	624	12/13/95	S. Kessler	
9556294-95	624	12/13/95	S. Kessler	
95 57845	VOA	12/18/95	M. CIAMPI	
95 57520	VOA	12/18/95	M. CIAMPI	
95 57281	BTEX, TCL Benzene	12/18/95	M. CIAMPI	
95 56406, 410	VOA + TICs	12/19/95	M. CIAMPI	
95 55710-14	VOA + LS + TICs	12/19/95	M. CIAMPI	
95 55715	VOA + NAPH + LS + TICs	12/19/95	M. CIAMPI	
95 57354	TCL VOA + VINYL Chloride + SCOTT	12/19/95	M. CIAMPI	
95 57695-97	TCL STG LIST + TICs	12/19/95	M. CIAMPI	

EMSL ANALYTICAL, INC.

INTERNAL CHAIN OF CUSTODY

EMSL

EMSL LAB ID NO. 5-1785 -

PROJECT NO. 9511886

SAMPLE/CONTAINERS

PARAMETERS
Wet, Pest/PCB

DATE	TIME	ANALYSIS	NAME (PRINT)	SIGNATURE
11/30/95		Total Cyanide	Prithan Singh	[signature]
12/4/95		BNA extraction	Charles Bartolone	[signature]
12/5/95		P/P ext	DaJuan Corbin	[signature]
12/7/95		Metals prep	Dominic Tarrenzi	[signature]

INTERNAL CUSTODY

Project #: 95118884

Lab ID #'s: 54785

Analyst

	Name (please print)	Signature	Date
1. Base/Neutrals			
2. Acids			
3. Pesticides	Paul Laraia	Paul Laraia	12/7/95
4. Herbicides			
5. PCB's	Paul Laraia	Paul Laraia	12/7/95
6. Metals:			
Flame			
Furnace	John Billings	John Billings	12/12 - 12/13, 12/19/95
ICP	John Billings	John Billings	12/8, 12/10/95
7. Volatiles:			
GC			
GC/MS			
8. TOC			
9. TOX			
10. Phenols (Total)			
11. Cyanide (Total)			
12. TPH -IR			
13. Mercury	John Lewis	John Lewis	12/8/95
14. Other			
15. Other			
16. Other			

U.S. ARMY FORT MONMOUTH
MONITORING WELL SAMPLING DATASHEET

IJO#95-0091 290 1203
BLDG.#: Bldg MW#: 7 NJDEPE WELL ID # 2933761
LABORATORY: EMSL Analytical Services, NJDEP CERT # 04653
SAMPLING CONTRACTOR: EMSL Analytical Services Inc.
SAMPLERS NAMES: Tom Baxter, Susan Palilonis

DATE: 12-18-95
WEATHER CONDITIONS: Cold!

ELEVATION OF CASING SURVEY MARK: ____.____FT
TOTAL DEPTH FROM TOP OF SURVEYORS MARK: 11.16 FT
DEPTH FROM SURVEYORS MARK TO SCREEN: ____.____FT
LENGTH OF SCREENED SECTION: ____.____FT
DEPTH TO H2O PRIOR TO PURGING AND SAMPLING: 3.18 FT
ELEVATION OF GW PRIOR TO PURGING: ____.____FT
THICKNESS OF LNAPL PRIOR TO PURGING: 0.0 FT

PID/Hnu READING IMMEDIATELY AFTER CAP REMOVAL: 21 PPM none detct
DEPTH OF WELL: ____.____FT HEIGHT OF WATER: ____.____FT
GAL OF H2O TO BE EVACUATED (EST) 16 GAL
(7.98 X 0.65 X 3 = 15.566)
PURGE METHOD: (FLOW OF <0.5 GPM TO >5.0 GPM) pump
PURGE RATE (0.5 GPM) : 2 GPM

PURGE START TIME: 1210
pH: 3.69 s.u. TEMP: 13.6 Deg.C
Dissolved Oxygen: 2.4 PPM Specific Conductivity: 138 us/cm

PURGE END TIME: 1220
pH: 3.52 s.u. TEMP: 14.2 Deg.C
Dissolved Oxygen: 1.2 PPM Specific Conductivity: 134 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING: 4.52 FT
SAMPLING METHOD: DEDICATED, DECONTAMINATED (IAW NJDEP FSPM 1992) TEFLON (R) BAILER
TOTAL VOLUME PURGED : 16 GAL. 1232
pH: 3.65 s.u. TEMP: 13.7 Deg.C
Dissolved Oxygen: 1.5 PPM Specific Conductivity: 141 us/cm

COMMENTS: _____

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, cont.

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.

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: **95-54785, 95-54783, 95-54784** Client: **E-Systems**

	I DATE	II	Hold Time
Date Sampled	**11/28/95**		
Receipt/Refrigeration	**11/28/95**		
Extractions			
1. Pesticides/PCB's	**12/5/95**		**7 days**
2. Semivolatile Organics	**12/4/95**		**7 days**
3. Metals Prep.	**12/7/95**		
Analyses			
1. Metals	**12/8-27/95**		**6 months**
2. Mercury	**12/8/95**		**28 days**
3. Pesticides/PCB's	**12/7/95**		**40 days**
4. Semivolatile Organics	**12/11/95**		**40 days**
5. Volatile Organics	**12/11/95**		**14 days**
6. T. Cyanide	**11/30/95**		**28 days**

QC Supervisor
Review & Approval

(Signature) Peter B. Panton
(Printed Name) Peter B. Panton
(Date) 12/15/96

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.

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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 1.6 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		X

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:		
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 Kavanaugh Date: 1-25-96

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. **Initial Calibration not performed within 30 days. Continuing Calibration within 24 hours.**	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		
	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 If not met, list number of days exceeded for each sample:		X
9.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		X

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 Tarara Date: 1-26-96

EMSL

METALS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMA

		No	Yes
1.	Calibration Summary Meet Criteria **Potassium continuing Calibration 69.5% Recovery.**	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 **Silver Recovery = 33%, Selenium Recovery = 121%.**	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)	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 Tonn Date: 1-26-96

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: C0274.D BFB Injection Date: 11/21/95

Instrument ID: 5972-INSTRUMENT 1 BFB Injection Time: 0930

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	18.1
75	30.0 - 60.0% of mass 95	42.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	4.9 (6.9)1
176	95.0 - 101.0% of mass 174	69.0 (98.1)1
177	5.0 - 9.0% of mass 176	4.8 (7.0)2

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

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

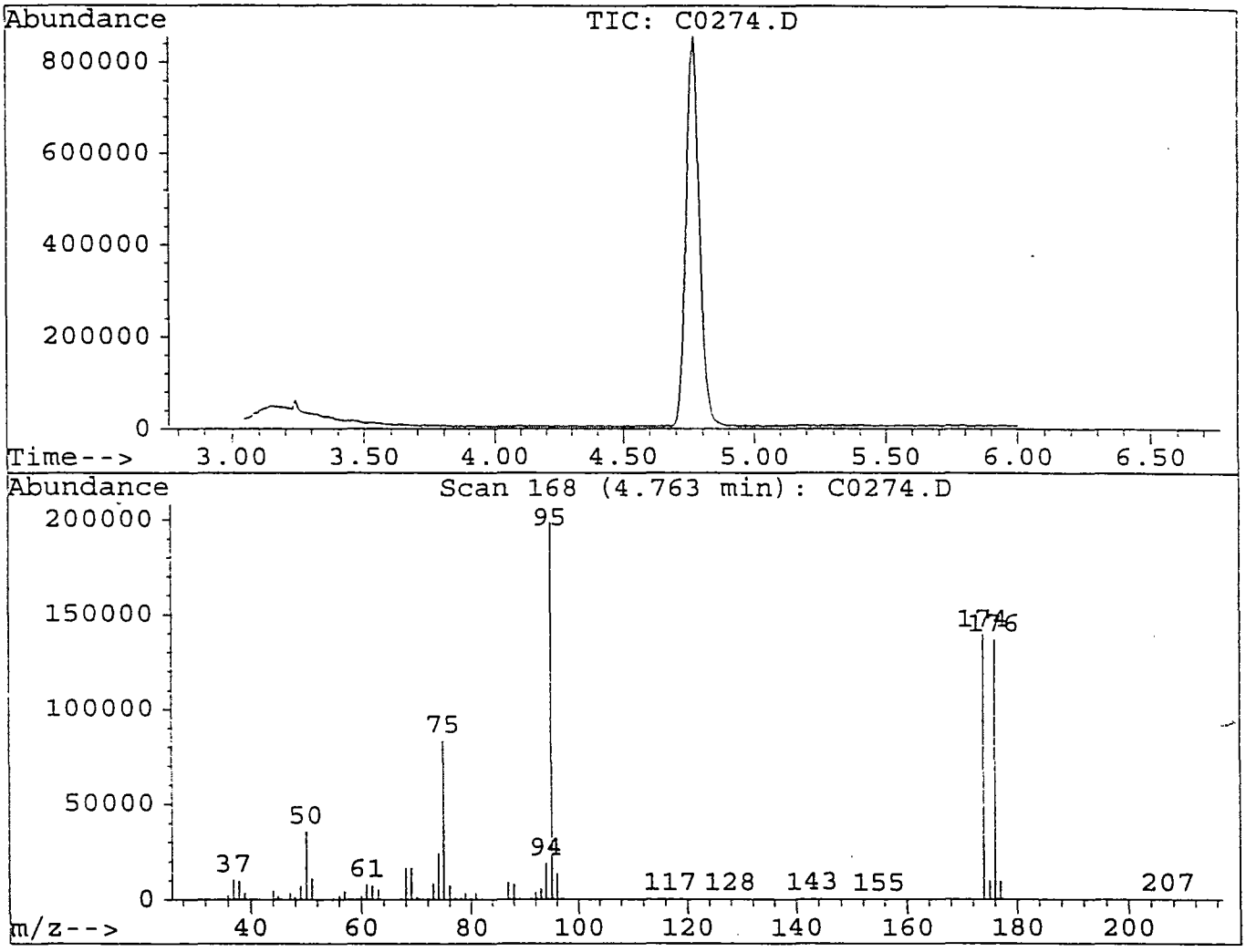
	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		0.5 PPB STANDARD	C0275.D	11/21/95	0943
02		10 PPB STANDARD	C0279.D	11/21/95	1202
03		20 PPB STANDARD	C0278.D	11/21/95	1128
04		30 PPB STANDARD	C0277.D	11/21/95	1052
05		40 PPB STANDARD	C0276.D	11/21/95	1018
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

CLPBFB

Data File : D:\HPCHEM\1\DATA\C0274.D
Acq On : 21 Nov 95 9:30 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: 168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	35864	PASS
75	95	30	80	42.0	83456	PASS
95	95	100	100	100.0	198528	PASS
96	95	5	9	6.9	13614	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	70.3	139520	PASS
175	174	5	9	6.9	9663	PASS
176	174	95	101	98.1	136832	PASS
177	176	5	9	7.0	9524	PASS

Scan 168 (4.763 min): C0274.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2277	50.05	35864	68.95	16840	80.90	3318
37.00	10480	51.05	11301	69.95	1438	81.90	791
38.00	9596	54.95	647	71.95	1154	86.90	8982
39.00	3619	56.00	2228	72.95	8548	87.95	8221
40.00	1027	57.00	4456	73.95	24384	90.95	535
42.90	511	60.00	1764	74.95	83456	91.95	3828
44.00	4623	61.00	7920	75.95	7334	92.95	5832
44.90	1739	62.00	7223	77.00	1369	93.95	18976
47.05	3487	63.00	5277	78.00	1252	94.95	198528
47.95	1465	67.05	583	78.90	3315	95.95	13614
48.95	7258	67.95	16648	79.90	878	96.95	630

Scan 168 (4.763 min): C0274.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.90	570	175.95	136832				
116.85	739	176.95	9524				
118.90	643	207.00	701				
127.90	866						
129.95	560						
134.85	621						
141.00	967						
142.90	1142						
154.85	600						
173.95	139520						
174.95	9663						

Response Factor Report 5972 - In

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Nov 21 13:46:36 1995
Response via : Initial Calibration

Calibration Files
0.5 =C0275.D 10 =C0279.D 20 =C0278.D
30 =C0277.D 40 =C0276.D

		Compound	0.5	10	20	30	40	Avg	%RSD
1)		Fluorobenzene	ISTD						
2)	M	Dichlorodifluorometha	0.287	0.266	0.261	0.265	0.273	0.271	3.80
3)	M	Chloromethane	0.232	0.207	0.195	0.196	0.198	0.206	7.64
4)	M	Vinyl chloride	0.231	0.229	0.223	0.226	0.235	0.229	1.94
5)	M	Bromomethane	0.205	0.165	0.144	0.144	0.136	0.159	17.51
6)	M	Chloroethane	0.143	0.138	0.128	0.117	0.109	0.127	11.04
7)	M	Trichlorofluoromethan	0.426	0.390	0.383	0.392	0.384	0.395	4.52
8)	M	1,1-Dichloroethene	0.255	0.233	0.231	0.230	0.234	0.237	4.48
9)	M	Methylene chloride		0.279	0.233	0.219	0.215	0.237	12.46
10)	M	trans-1,2-Dichloroeth	0.282	0.270	0.266	0.264	0.270	0.270	2.62
11)		Hexane						0.000#	-1.00
12)	M	1,1-Dichloroethane	0.532	0.513	0.498	0.494	0.503	0.508	2.94
13)	M	2,2-Dichloropropane	0.466	0.408	0.407	0.415	0.426	0.424	5.77
14)	M	cis-1,2-Dichloroethen	0.273	0.275	0.262	0.258	0.260	0.266	2.85
15)		2-Butanone						0.000#	-1.00
16)	M	Bromochloromethane	0.115	0.124	0.113	0.111	0.113	0.115	4.52
17)	M	Chloroform	0.487	0.479	0.459	0.457	0.464	0.469	2.85
18)	M	1,1,1-Trichloroethane	0.469	0.457	0.449	0.444	0.453	0.454	2.09
19)	M	Carbon tetrachloride	0.428	0.432	0.426	0.426	0.435	0.429	0.90
20)	M	1,1-Dichloropropene	0.445	0.423	0.418	0.413	0.419	0.424	2.93
21)	M	Benzene	0.992	0.878	0.833	0.817	0.829	0.870	8.27
22)	M	1,2-Dichloroethane	0.199	0.209	0.190	0.185	0.191	0.195	4.85
23)	M	Trichloroethene	0.377	0.365	0.354	0.350	0.358	0.361	2.90
24)	M	1,2-Dichloropropane	0.306	0.319	0.296	0.290	0.298	0.302	3.69
25)	M	Dibromomethane	0.128	0.145	0.131	0.127	0.131	0.132	5.52
26)	M	Bromodichloromethane	0.386	0.413	0.387	0.379	0.389	0.391	3.37
27)	M	cis-1,3-Dichloroprope	0.351	0.372	0.347	0.340	0.352	0.352	3.45
28)	M	Toluene		0.639	0.609	0.597	0.610	0.614	2.89
29)	M	trans-1,3-Dichloropro	0.237	0.263	0.239	0.234	0.243	0.243	4.73
30)	M	1,1,2-Trichloroethane	0.127	0.144	0.128	0.124	0.129	0.131	5.87
31)	M	Tetrachloroethene	0.458	0.436	0.429	0.425	0.429	0.435	3.03
32)	M	1,3-Dichloropropane	0.248	0.273	0.243	0.233	0.240	0.247	6.16
33)	M	Dibromochloromethane	0.241	0.284	0.260	0.253	0.262	0.260	6.03
34)	M	1,2-Dibromoethane	0.180	0.212	0.189	0.182	0.189	0.190	6.83
35)	M	Chlorobenzene	0.746	0.734	0.693	0.676	0.688	0.707	4.33
36)	M	1,1,1,2-Tetrachloroet	0.287	0.316	0.290	0.285	0.290	0.294	4.34
37)	M	Ethylbenzene	1.356	1.287	1.236	1.205	1.219	1.261	4.87
38)	M	Xylene (para & meta)	0.530	0.488	0.464	0.451	0.453	0.477	6.89
39)	M	Xylene (Ortho)	0.469	0.454	0.427	0.416	0.422	0.438	5.22
40)	M	Styrene	0.676	0.715	0.668	0.646	0.655	0.672	3.95
41)	M	Bromoform	0.121	0.161	0.145	0.141	0.144	0.142	10.19
42)	M	Isopropylbenzene	1.274	1.248	1.201	1.179	1.192	1.219	3.31
43)	S	4-Bromofluorobenzene	0.533	0.559	0.538	0.528	0.541	0.540	2.22

(#) = Out of Range

Response Factor Report 5972 - In

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Tue Nov 21 13:46:36 1995
Response via : Initial Calibration

Calibration Files
0.5 =C0275.D 10 =C0279.D 20 =C0278.D
30 =C0277.D 40 =C0276.D

		Compound	0.5	10	20	30	40	Avg	%RSD
44)	M	Bromobenzene	0.310	0.343	0.314	0.304	0.307	0.316	4.90
45)	M	1,1,2,2-Tetrachloroet	0.145	0.183	0.161	0.153	0.158	0.160	8.85
46)	M	1,2,3-Trichloropropan	0.165	0.182	0.161	0.154	0.159	0.164	6.55
47)	M	n-Propylbenzene	1.751	1.699	1.650	1.605	1.613	1.664	3.68
48)	M	2-Chlorotoluene	1.051	0.971	0.921	0.960	0.960	0.973	4.91
49)	M	4-Chlorotoluene	1.145	1.127	1.065	1.036	1.045	1.084	4.57
50)	M	1,3,5-Trimethylbenzen	1.107	1.095	1.045	1.018	1.021	1.057	3.93
51)	M	tert-Butylbenzene	1.227	1.237	1.176	1.146	1.151	1.187	3.56
52)	M	1,2,4-Trimethylbenzen	1.151	1.093	1.030	1.001	1.006	1.056	6.08
53)	M	sec-Butylbenzene	1.690	1.667	1.602	1.555	1.547	1.612	3.99
54)	M	1,3-Dichlorobenzene	0.660	0.666	0.617	0.592	0.589	0.625	5.84
55)	M	4-Isopropyltoluene	1.355	1.354	1.290	1.245	1.236	1.296	4.41
56)	M	1,4-Dichlorobenzene	0.648	0.660	0.600	0.574	0.581	0.612	6.40
57)	S	1,2-Dichlorobenzene-d	0.336	0.368	0.338	0.325	0.324	0.338	5.29
58)	M	1,2-Dichlorobenzene	0.519	0.543	0.485	0.462	0.462	0.494	7.28
59)	M	n-Butylbenzene	1.377	1.370	1.307	1.265	1.257	1.315	4.31
60)	M	1,2-Dibromo-3-chlorop	0.035	0.037	0.033	0.031	0.032	0.034	7.58
61)	M	1,2,4-Trichlorobenzen	0.384	0.446	0.404	0.384	0.383	0.400	6.73
62)	M	Hexachlorobutadiene	0.355	0.365	0.350	0.339	0.329	0.348	4.00
63)	M	Naphthalene	0.407	0.444	0.383	0.353	0.347	0.387	10.34
64)	M	1,2,3-Trichlorobenzen	0.279	0.337	0.297	0.274	0.271	0.292	9.42
65)		Methyl-tert butyl eth		0.339	0.297	0.289	0.299	0.306	7.29
66)		tert-Butyl Alcohol		0.005	0.004	0.004	0.004	0.005	9.33

(#) = Out of Range

Quantitation Report

040

Data File : D:\HPCHEM\1\DATA\C0275.D
Acq On : 21 Nov 95 9:43 am
Sample : 0.5 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:45 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.21	96	1820408	5.00	ug/L		0.42
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.44	95	969768	4.67	ug/L		93.41%
57) 1,2-Dichlorobenzene-d4	22.24	152	612531	4.91	ug/L		98.22%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.53	85	52316	0.39	ug/L		97
3) Chloromethane	3.98	50	42319	0.61	ug/L		98
4) Vinyl chloride	4.16	62	42117	0.51	ug/L		92
5) Bromomethane	4.90	94	37297	0.62	ug/L		97
6) Chloroethane	5.12	64	25997	0.54	ug/L		90
7) Trichlorofluoromethane	5.71	101	77594	0.41	ug/L		100
8) 1,1-Dichloroethene	6.81	96	46511	0.54	ug/L	#	71
9) Methylene chloride	7.81	84	319424	3.67	ug/L		97
10) trans-1,2-Dichloroethene	8.35	96	51408	0.53	ug/L		95
12) 1,1-Dichloroethane	9.14	63	96756	0.50	ug/L		100
13) 2,2-Dichloropropane	10.19	77	84847	0.44	ug/L		94
14) cis-1,2-Dichloroethene	10.21	96	49660	0.52	ug/L		97
16) Bromochloromethane	10.63	128	20891	0.50	ug/L		99
17) Chloroform	10.77	83	88666	0.45	ug/L		96
18) 1,1,1-Trichloroethane	11.09	97	85372	0.42	ug/L		93
19) Carbon tetrachloride	11.37	117	77995	0.41	ug/L		90
20) 1,1-Dichloropropene	11.37	75	81023	0.48	ug/L		94
21) Benzene	11.73	78	180526	0.59	ug/L		92
22) 1,2-Dichloroethane	11.76	62	36177	0.38	ug/L		83
23) Trichloroethene	12.83	95	68547	0.50	ug/L		97
24) 1,2-Dichloropropane	13.20	63	55699	0.54	ug/L		98
25) Dibromomethane	13.41	93	23381	0.45	ug/L		95
26) Bromodichloromethane	13.67	83	70253	0.42	ug/L		98
27) cis-1,3-Dichloropropene	14.41	75	63879	0.48	ug/L		92
28) Toluene	14.99	92	153622	0.69	ug/L	m	98
29) trans-1,3-Dichloropropene	15.35	75	43191	0.44	ug/L		89
30) 1,1,2-Trichloroethane	15.67	83	23162	0.49	ug/L		95
31) Tetrachloroethene	15.94	166	83338	0.52	ug/L		97
32) 1,3-Dichloropropane	15.96	76	45174	0.49	ug/L		95
33) Dibromochloromethane	16.36	129	43861	0.43	ug/L		99
34) 1,2-Dibromoethane	16.57	107	32720	0.46	ug/L	m	95
35) Chlorobenzene	17.41	112	135723	0.53	ug/L		97
36) 1,1,1,2-Tetrachloroethane	17.56	131	52286	0.47	ug/L		98
37) Ethylbenzene	17.60	91	246785	0.52	ug/L	m	67
38) Xylene (para & meta)	17.80	106	192842	1.13	ug/L		90
39) Xylene (Ortho)	18.51	106	85435	0.54	ug/L	m	93
40) Styrene	18.53	104	123015	0.51	ug/L		90

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

Quantitation Report

050

Data File : D:\HPCHEM\1\DATA\C0275.D
Acq On : 21 Nov 95 9:43 am
Sample : 0.5 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:45 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.88	173	21972	0.40	ug/L		93
42)	Isopropylbenzene	19.16	105	231861	0.50	ug/L		96
44)	Bromobenzene	19.72	156	56512	0.49	ug/L		97
45)	1,1,2,2-Tetrachloroethane	19.69	83	26461	0.46	ug/L		96
46)	1,2,3-Trichloropropane	19.75	75	29999	0.47	ug/L	m	1
47)	n-Propylbenzene	19.90	91	318712	0.50	ug/L	m	58
48)	2-Chlorotoluene	20.07	91	191301	0.52	ug/L	m	98
49)	4-Chlorotoluene	20.26	91	208453	0.49	ug/L		96
50)	1,3,5-Trimethylbenzene	20.21	105	201508	0.49	ug/L		97
51)	tert-Butylbenzene	20.81	119	223381	0.50	ug/L		96
52)	1,2,4-Trimethylbenzene	20.90	105	209498	0.50	ug/L		97
53)	sec-Butylbenzene	21.21	105	307562	0.49	ug/L	m	57
54)	1,3-Dichlorobenzene	21.43	146	120084	0.52	ug/L	m	95
55)	4-Isopropyltoluene	21.47	119	246629	0.50	ug/L		98
56)	1,4-Dichlorobenzene	21.59	146	117975	0.52	ug/L	m	96
58)	1,2-Dichlorobenzene	22.28	146	94399	0.52	ug/L	m	0
59)	n-Butylbenzene	22.22	91	250733	0.49	ug/L		97
60)	1,2-Dibromo-3-chloropropan	23.70	75	6427	0.45	ug/L	m	0
61)	1,2,4-Trichlorobenzene	25.25	180	69932	0.47	ug/L		93
62)	Hexachlorobutadiene	25.57	225	64588	0.48	ug/L		99
63)	Naphthalene	25.71	128	74092	0.53	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.22	180	50786	0.47	ug/L	m	0
65)	Methyl-tert butyl ether	8.40	73	84870	0.70	ug/L	m	0

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

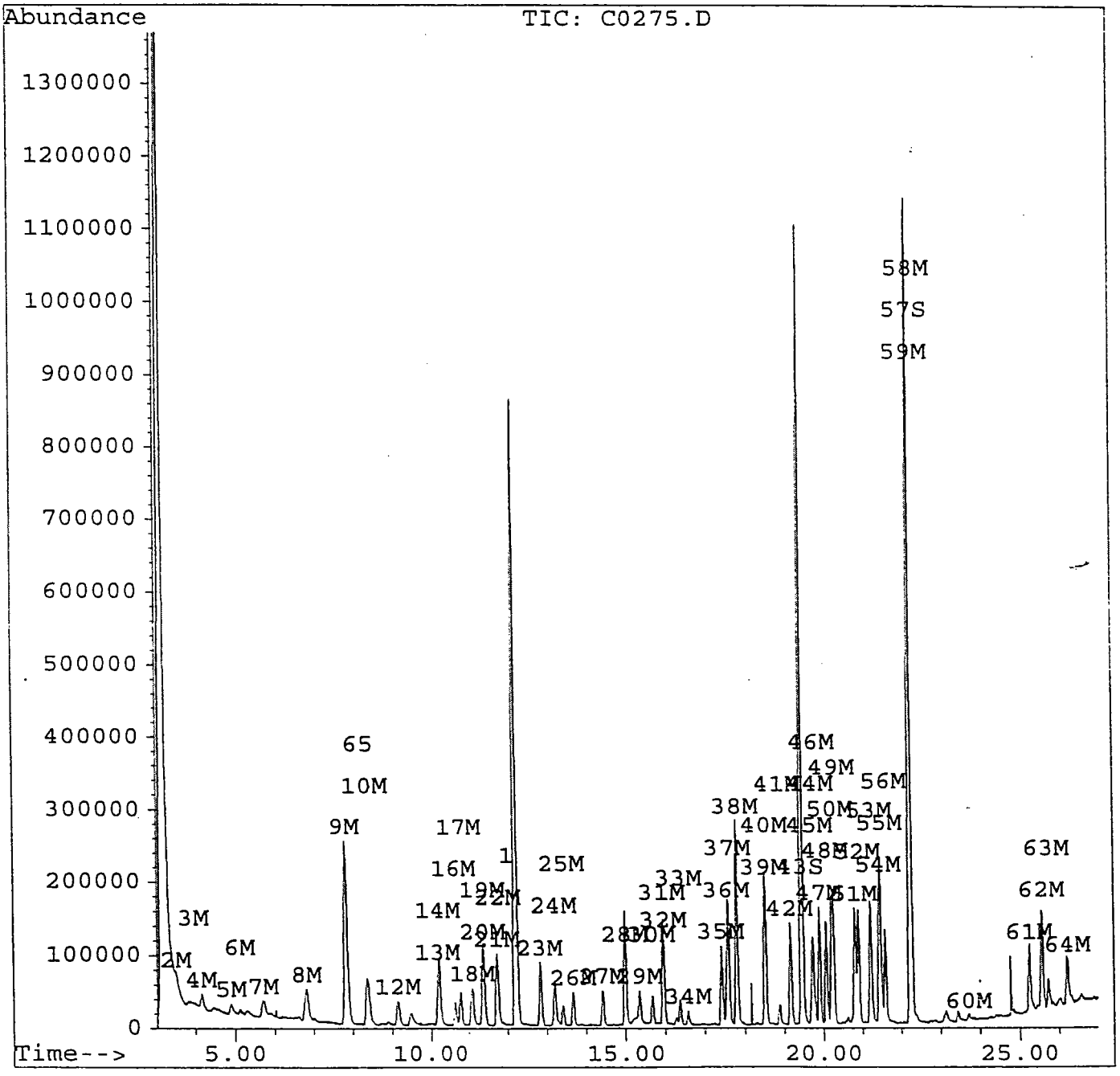
Quantitation Report

051

Data File : D:\HPCHEM\1\DATA\C0275.D
Acq On : 21 Nov 95 9:43 am
Sample : 0.5 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:45 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0279.d
Acq On : 21 Nov 95 12:02 pm
Sample : 10 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:10 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.21	96	1609009	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.46	95	899980	4.90	ug/L		98.08%
57) 1,2-Dichlorobenzene-d4	22.25	152	592880	5.38	ug/L		107.56%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.54	85	856472	7.28	ug/L		99
3) Chloromethane	3.99	50	666017	10.89	ug/L		99
4) Vinyl chloride	4.18	62	735860	10.01	ug/L		98
5) Bromomethane	4.88	94	531114	9.97	ug/L		94
6) Chloroethane	5.12	64	444951	10.52	ug/L		99
7) Trichlorofluoromethane	5.71	101	1256624	7.50	ug/L		96
8) 1,1-Dichloroethene	6.83	96	750318	9.77	ug/L	#	78
9) Methylene chloride	7.83	84	899322	11.70	ug/L		99
10) trans-1,2-Dichloroethene	8.36	96	867754	10.09	ug/L		92
12) 1,1-Dichloroethane	9.16	63	1649567	9.64	ug/L		98
13) 2,2-Dichloropropane	10.21	77	1314116	7.70	ug/L		87
14) cis-1,2-Dichloroethene	10.22	96	884860	10.51	ug/L	#	89
16) Bromochloromethane	10.64	128	399435	10.81	ug/L		97
17) Chloroform	10.79	83	1542720	8.81	ug/L		99
18) 1,1,1-Trichloroethane	11.10	97	1469392	8.16	ug/L		97
19) Carbon tetrachloride	11.38	117	1389681	8.31	ug/L		99
20) 1,1-Dichloropropene	11.38	75	1360544	9.04	ug/L		97
21) Benzene	11.73	78	2826008	10.49	ug/L		98
22) 1,2-Dichloroethane	11.77	62	673923	8.03	ug/L		90
23) Trichloroethene	12.84	95	1175434	9.62	ug/L		99
24) 1,2-Dichloropropane	13.21	63	1027243	11.25	ug/L		100
25) Dibromomethane	13.42	93	467301	10.25	ug/L		96
26) Bromodichloromethane	13.67	83	1330545	9.02	ug/L		100
27) cis-1,3-Dichloropropene	14.43	75	1198677	10.14	ug/L		96
28) Toluene	15.00	92	2055048	10.48	ug/L		97
29) trans-1,3-Dichloropropene	15.36	75	846524	9.69	ug/L		92
30) 1,1,2-Trichloroethane	15.67	83	463270	11.00	ug/L		97
31) Tetrachloroethene	15.95	166	1403167	9.97	ug/L		99
32) 1,3-Dichloropropane	15.97	76	877213	10.66	ug/L		99
33) Dibromochloromethane	16.37	129	913271	10.23	ug/L		98
34) 1,2-Dibromoethane	16.58	107	683447	10.96	ug/L		98
35) Chlorobenzene	17.43	112	2362576	10.50	ug/L		97
36) 1,1,1,2-Tetrachloroethane	17.57	131	1018157	10.30	ug/L		97
37) Ethylbenzene	17.61	91	4142973	9.94	ug/L		96
38) Xylene (para & meta)	17.82	106	3139022	20.79	ug/L		93
39) Xylene (Ortho)	18.52	106	1462030	10.52	ug/L		93
40) Styrene	18.54	104	2300383	10.69	ug/L		89

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

Quantitation Report

Data File : d:\hpchem\1\data\c0279.d
Acq On : 21 Nov 95 12:02 pm
Sample : 10 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:10 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.89	173	519312	10.60	ug/L		98
42)	Isopropylbenzene	19.17	105	4015738	9.78	ug/L	m	0
44)	Bromobenzene	19.74	156	1102438	10.77	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.69	83	588802	11.59	ug/L		98
46)	1,2,3-Trichloropropane	19.78	75	586144	10.31	ug/L	#	28
47)	n-Propylbenzene	19.91	91	5467496	9.79	ug/L		98
48)	2-Chlorotoluene	20.08	91	3124523	9.65	ug/L		97
49)	4-Chlorotoluene	20.27	91	3628061	9.64	ug/L		96
50)	1,3,5-Trimethylbenzene	20.22	105	3523555	9.67	ug/L		95
51)	tert-Butylbenzene	20.82	119	3979719	10.01	ug/L		96
52)	1,2,4-Trimethylbenzene	20.91	105	3517466	9.42	ug/L		95
53)	sec-Butylbenzene	21.22	105	5364130	9.72	ug/L		99
54)	1,3-Dichlorobenzene	21.44	146	2143707	10.49	ug/L		98
55)	4-Isopropyltoluene	21.48	119	4355898	9.92	ug/L		97
56)	1,4-Dichlorobenzene	21.60	146	2122376	10.55	ug/L		99
58)	1,2-Dichlorobenzene	22.28	146	1748295	10.98	ug/L	m	0
59)	n-Butylbenzene	22.23	91	4410108	9.74	ug/L		97
60)	1,2-Dibromo-3-chloropropan	23.71	75	120610	9.58	ug/L	#	80
61)	1,2,4-Trichlorobenzene	25.25	180	1434366	10.89	ug/L		97
62)	Hexachlorobutadiene	25.58	225	1174339	9.84	ug/L		95
63)	Naphthalene	25.73	128	1427329	11.66	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.23	180	1085916	11.35	ug/L		99
65)	Methyl-tert butyl ether	8.40	73	1090548	10.21	ug/L		97
66)	tert-Butyl Alcohol	8.19	59	33044	21.67	ug/L		100

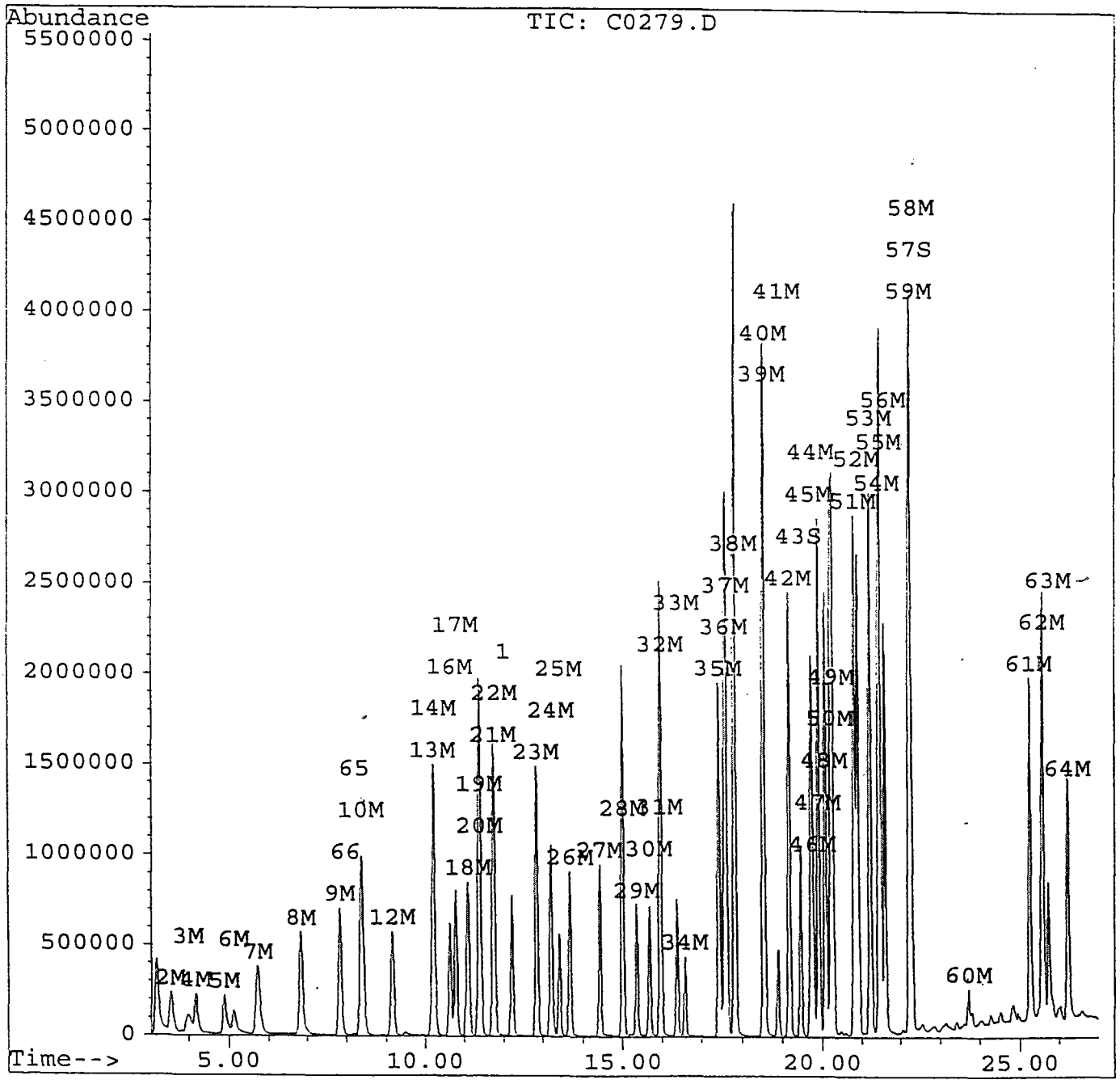
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0279.d
Acq On : 21 Nov 95 12:02 pm
Sample : 10 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:10 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 Nov 21 13:46:36 1995
Response via : Multiple Level Calibration



Quantitation Report

055

Data File : d:\hpchem\1\data\c0278.d
Acq On : 21 Nov 95 11:28 am
Sample : 20 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:07 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.21	96	1722488	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.46	95	927311	4.72	ug/L		94.40%
57) 1,2-Dichlorobenzene-d4	22.25	152	582262	4.93	ug/L		98.68%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.54	85	1801450	14.31	ug/L		97
3) Chloromethane	3.97	50	1343518	20.52	ug/L		100
4) Vinyl chloride	4.17	62	1539511	19.56	ug/L		99
5) Bromomethane	4.86	94	994458	17.44	ug/L		94
6) Chloroethane	5.08	64	881354	19.47	ug/L		100
7) Trichlorofluoromethane	5.68	101	2638002	14.71	ug/L		98
8) 1,1-Dichloroethene	6.81	96	1593355	19.38	ug/L	#	79
9) Methylene chloride	7.82	84	1603537	19.49	ug/L		98
10) trans-1,2-Dichloroethene	8.36	96	1831930	19.90	ug/L	m	0
12) 1,1-Dichloroethane	9.16	63	3432597	18.74	ug/L		99
13) 2,2-Dichloropropane	10.20	77	2802037	15.33	ug/L		89
14) cis-1,2-Dichloroethene	10.22	96	1806300	20.03	ug/L	m	0
16) Bromochloromethane	10.64	128	780203	19.72	ug/L		98
17) Chloroform	10.79	83	3159991	16.85	ug/L		98
18) 1,1,1-Trichloroethane	11.10	97	3092727	16.05	ug/L		97
19) Carbon tetrachloride	11.39	117	2932708	16.38	ug/L		100
20) 1,1-Dichloropropene	11.38	75	2880851	17.89	ug/L		96
21) Benzene	11.73	78	5738442	19.90	ug/L		98
22) 1,2-Dichloroethane	11.77	62	1311439	14.60	ug/L		86
23) Trichloroethene	12.84	95	2437464	18.64	ug/L		98
24) 1,2-Dichloropropane	13.21	63	2041662	20.88	ug/L		100
25) Dibromomethane	13.42	93	900094	18.45	ug/L		96
26) Bromodichloromethane	13.67	83	2668736	16.90	ug/L		99
27) cis-1,3-Dichloropropene	14.43	75	2391296	18.90	ug/L		98
28) Toluene	15.00	92	4196821	19.99	ug/L		97
29) trans-1,3-Dichloropropene	15.36	75	1647489	17.62	ug/L		92
30) 1,1,2-Trichloroethane	15.68	83	884119	19.60	ug/L		98
31) Tetrachloroethene	15.95	166	2952465	19.59	ug/L		99
32) 1,3-Dichloropropane	15.97	76	1676229	19.03	ug/L		99
33) Dibromochloromethane	16.37	129	1793224	18.76	ug/L		99
34) 1,2-Dibromoethane	16.58	107	1299437	19.47	ug/L		98
35) Chlorobenzene	17.43	112	4775180	19.82	ug/L		97
36) 1,1,1,2-Tetrachloroethane	17.57	131	1998640	18.89	ug/L		97
37) Ethylbenzene	17.61	91	8519170	19.10	ug/L		97
38) Xylene (para & meta)	17.82	106	6392350	39.55	ug/L		92
39) Xylene (Ortho)	18.52	106	2944771	19.80	ug/L		90
40) Styrene	18.54	104	4602890	19.99	ug/L		89

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

Quantitation Report

056

Data File : d:\hpchem\1\data\c0278.d
Acq On : 21 Nov 95 11:28 am
Sample : 20 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:07 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.89	173	1001404	19.09	ug/L		97
42)	Isopropylbenzene	19.17	105	8277271	18.83	ug/L	m	0
44)	Bromobenzene	19.74	156	2166384	19.76	ug/L		97
45)	1,1,2,2-Tetrachloroethane	19.69	83	1106145	20.34	ug/L		98
46)	1,2,3-Trichloropropane	19.78	75	1110952	18.25	ug/L	#	28
47)	n-Propylbenzene	19.91	91	11371671	19.02	ug/L		98
48)	2-Chlorotoluene	20.08	91	6343572	18.29	ug/L		96
49)	4-Chlorotoluene	20.27	91	7335851	18.21	ug/L		96
50)	1,3,5-Trimethylbenzene	20.22	105	7200036	18.46	ug/L		94
51)	tert-Butylbenzene	20.82	119	8099224	19.04	ug/L		95
52)	1,2,4-Trimethylbenzene	20.91	105	7100072	17.77	ug/L		95
53)	sec-Butylbenzene	21.22	105	11034278	18.68	ug/L		98
54)	1,3-Dichlorobenzene	21.44	146	4253419	19.44	ug/L		98
55)	4-Isopropyltoluene	21.48	119	8886497	18.90	ug/L		97
56)	1,4-Dichlorobenzene	21.60	146	4135214	19.21	ug/L		99
58)	1,2-Dichlorobenzene	22.28	146	3344031	19.61	ug/L		99
59)	n-Butylbenzene	22.23	91	9001935	18.57	ug/L		97
60)	1,2-Dibromo-3-chloropropan	23.71	75	224773	16.68	ug/L	#	76
61)	1,2,4-Trichlorobenzene	25.25	180	2785545	19.75	ug/L		98
62)	Hexachlorobutadiene	25.58	225	2413438	18.89	ug/L		96
63)	Naphthalene	25.73	128	2640403	20.14	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.22	180	2045433	19.96	ug/L		99
65)	Methyl-tert butyl ether	8.40	73	2048272	17.91	ug/L		97
66)	tert-Butyl Alcohol	8.22	59	60041	36.77	ug/L		100

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

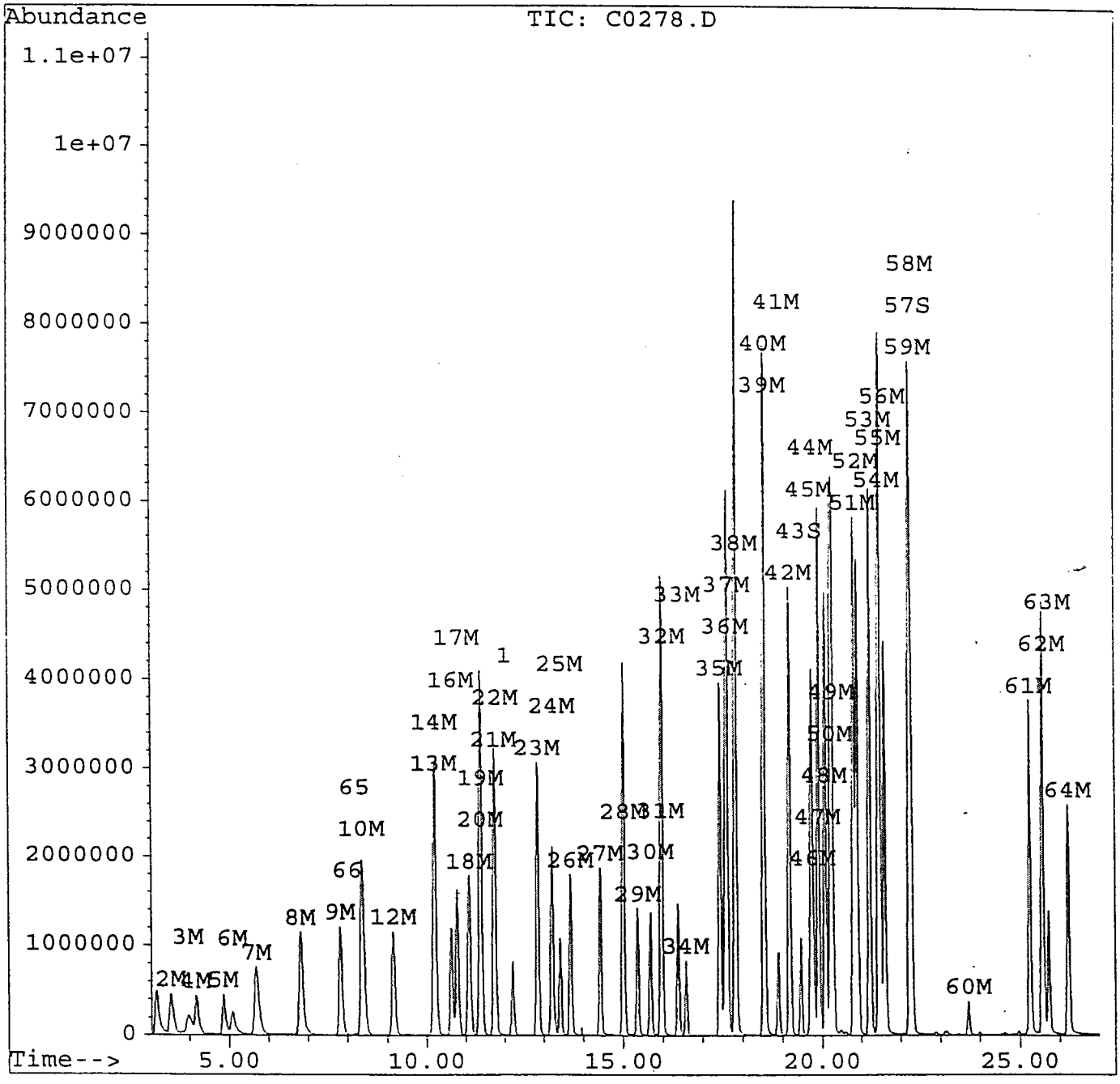
Quantitation Report

057

Data File : d:\hpchem\1\data\c0278.d
Acq On : 21 Nov 95 11:28 am
Sample : 20 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:07 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration



Quantitation Report

058

Data File : d:\hpchem\1\data\c0277.d
Acq On : 21 Nov 95 10:52 am
Sample : 30 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:04 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.22	96	1784794	5.00	ug/L		0.01
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.46	95	942277	4.63	ug/L		92.57%
57) 1,2-Dichlorobenzene-d4	22.25	152	579998	4.74	ug/L		94.86%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.54	85	2836497	21.75	ug/L		98
3) Chloromethane	3.99	50	2098923	30.94	ug/L		99
4) Vinyl chloride	4.18	62	2415650	29.63	ug/L		98
5) Bromomethane	4.86	94	1539157	26.06	ug/L	m	0
6) Chloroethane	5.06	64	1257519	26.81	ug/L		98
7) Trichlorofluoromethane	5.68	101	4199498	22.60	ug/L		97
8) 1,1-Dichloroethene	6.82	96	2462267	28.90	ug/L	#	79
9) Methylene chloride	7.83	84	2344560	27.50	ug/L		98
10) trans-1,2-Dichloroethene	8.36	96	2831636	29.69	ug/L		91
12) 1,1-Dichloroethane	9.16	63	5287314	27.85	ug/L		99
13) 2,2-Dichloropropane	10.21	77	4444886	23.47	ug/L		89
14) cis-1,2-Dichloroethene	10.22	96	2767927	29.62	ug/L	#	89
16) Bromochloromethane	10.64	128	1185004	28.91	ug/L		99
17) Chloroform	10.79	83	4893833	25.18	ug/L		97
18) 1,1,1-Trichloroethane	11.10	97	4753944	23.81	ug/L		97
19) Carbon tetrachloride	11.39	117	4564218	24.60	ug/L		100
20) 1,1-Dichloropropene	11.38	75	4427341	26.53	ug/L		97
21) Benzene	11.75	78	8752088	29.30	ug/L		98
22) 1,2-Dichloroethane	11.77	62	1984347	21.32	ug/L		88
23) Trichloroethene	12.84	95	3749920	27.68	ug/L		98
24) 1,2-Dichloropropane	13.21	63	3110146	30.70	ug/L		99
25) Dibromomethane	13.42	93	1360516	26.91	ug/L		97
26) Bromodichloromethane	13.67	83	4057411	24.80	ug/L		99
27) cis-1,3-Dichloropropene	14.43	75	3639910	27.76	ug/L		97
28) Toluene	15.00	92	6391124	29.38	ug/L		98
29) trans-1,3-Dichloropropene	15.36	75	2506952	25.87	ug/L		92
30) 1,1,2-Trichloroethane	15.68	83	1332952	28.52	ug/L		97
31) Tetrachloroethene	15.95	166	4549744	29.13	ug/L		99
32) 1,3-Dichloropropane	15.97	76	2491473	27.30	ug/L		100
33) Dibromochloromethane	16.37	129	2708999	27.35	ug/L		99
34) 1,2-Dibromoethane	16.58	107	1946729	28.14	ug/L		100
35) Chlorobenzene	17.43	112	7236418	28.98	ug/L	m	0
36) 1,1,1,2-Tetrachloroethane	17.57	131	3057070	27.88	ug/L		97
37) Ethylbenzene	17.61	91	12907921	27.92	ug/L		97
38) Xylene (para & meta)	17.82	106	9651078	57.62	ug/L		91
39) Xylene (Ortho)	18.52	106	4457409	28.92	ug/L		92
40) Styrene	18.54	104	6923206	29.02	ug/L		89

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

Quantitation Report

Data File : d:\hpchem\1\data\c0277.d
Acq On : 21 Nov 95 10:52 am
Sample : 30 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:04 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.89	173	1511160	27.81	ug/L		96
42)	Isopropylbenzene	19.17	105	12622410	27.71	ug/L	m	0
44)	Bromobenzene	19.74	156	3255768	28.66	ug/L		97
45)	1,1,2,2-Tetrachloroethane	19.69	83	1633104	28.98	ug/L		98
46)	1,2,3-Trichloropropane	19.78	75	1648511	26.13	ug/L	#	25
47)	n-Propylbenzene	19.91	91	17183034	27.74	ug/L		97
48)	2-Chlorotoluene	20.08	91	10285555	28.63	ug/L		96
49)	4-Chlorotoluene	20.27	91	11091027	26.58	ug/L		96
50)	1,3,5-Trimethylbenzene	20.22	105	10903523	26.98	ug/L		95
51)	tert-Butylbenzene	20.82	119	12273662	27.84	ug/L		95
52)	1,2,4-Trimethylbenzene	20.91	105	10722862	25.90	ug/L		95
53)	sec-Butylbenzene	21.22	105	16654167	27.21	ug/L		98
54)	1,3-Dichlorobenzene	21.44	146	6339763	27.97	ug/L		99
55)	4-Isopropyltoluene	21.48	119	13330894	27.36	ug/L		98
56)	1,4-Dichlorobenzene	21.60	146	6141628	27.53	ug/L		99
58)	1,2-Dichlorobenzene	22.28	146	4942796	27.97	ug/L		98
59)	n-Butylbenzene	22.23	91	13546684	26.97	ug/L		96
60)	1,2-Dibromo-3-chloropropan	23.71	75	334490	23.96	ug/L		79
61)	1,2,4-Trichlorobenzene	25.25	180	4113150	28.14	ug/L		98
62)	Hexachlorobutadiene	25.58	225	3635507	27.46	ug/L	m	82
63)	Naphthalene	25.73	128	3782351	27.85	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.22	180	2931888	27.61	ug/L	m	0
65)	Methyl-tert butyl ether	8.41	73	3097117	26.13	ug/L	m	0
66)	tert-Butyl Alcohol	8.22	59	91328	53.98	ug/L	m	100

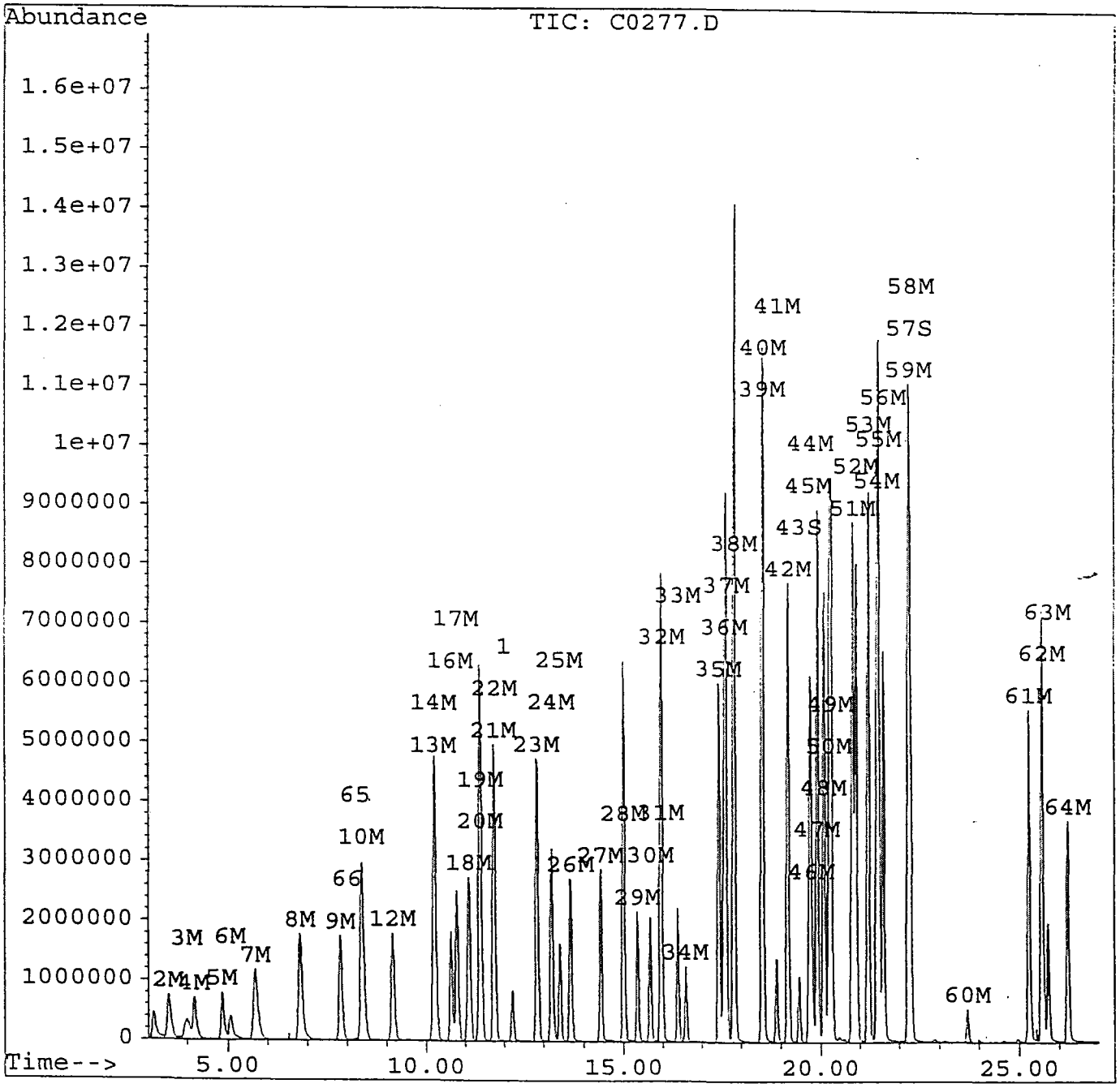
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0277.d
Acq On : 21 Nov 95 10:52 am
Sample : 30 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 13:04 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration



Quantitation Report

001

Data File : d:\hpchem\1\data\c0276.d
Acq On : 21 Nov 95 10:18 am
Sample : 40 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 11:18 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.20	96	1759102	5.00	ug/L		0.00
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.45	95	951185	4.74	ug/L		94.81%
57) 1,2-Dichlorobenzene-d4	22.25	152	570741	4.74	ug/L		94.71%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.54	85	3842951	29.89	ug/L		98
3) Chloromethane	3.99	50	2785093	41.66	ug/L	m	0
4) Vinyl chloride	4.18	62	3300688	41.07	ug/L		98
5) Bromomethane	4.84	94	1920657	32.99	ug/L		95
6) Chloroethane	5.04	64	1536210	33.23	ug/L		99
7) Trichlorofluoromethane	5.65	101	5402420	29.50	ug/L		97
8) 1,1-Dichloroethene	6.80	96	3288045	39.15	ug/L	#	79
9) Methylene chloride	7.81	84	3032483	36.08	ug/L		100
10) trans-1,2-Dichloroethene	8.34	96	3794962	40.37	ug/L		91
12) 1,1-Dichloroethane	9.15	63	7085234	37.87	ug/L		98
13) 2,2-Dichloropropane	10.20	77	5990137	32.10	ug/L	m	0
14) cis-1,2-Dichloroethene	10.21	96	3663460	39.78	ug/L	m	0
16) Bromochloromethane	10.62	128	1592491	39.42	ug/L		97
17) Chloroform	10.78	83	6527086	34.08	ug/L		98
18) 1,1,1-Trichloroethane	11.09	97	6371834	32.38	ug/L		97
19) Carbon tetrachloride	11.37	117	6118402	33.46	ug/L		99
20) 1,1-Dichloropropene	11.37	75	5894994	35.84	ug/L		97
21) Benzene	11.73	78	11670569	39.63	ug/L		98
22) 1,2-Dichloroethane	11.76	62	2682220	29.24	ug/L		88
23) Trichloroethene	12.83	95	5035850	37.71	ug/L		99
24) 1,2-Dichloropropane	13.20	63	4191796	41.98	ug/L		99
25) Dibromomethane	13.41	93	1841134	36.94	ug/L		97
26) Bromodichloromethane	13.66	83	5475563	33.96	ug/L		99
27) cis-1,3-Dichloropropene	14.42	75	4948085	38.29	ug/L		97
28) Toluene	14.99	92	8579596	40.01	ug/L		97
29) trans-1,3-Dichloropropene	15.35	75	3412681	35.73	ug/L		93
30) 1,1,2-Trichloroethane	15.67	83	1814691	39.39	ug/L		98
31) Tetrachloroethene	15.94	166	6041995	39.25	ug/L		99
32) 1,3-Dichloropropane	15.96	76	3372769	37.49	ug/L		100
33) Dibromochloromethane	16.36	129	3681997	37.72	ug/L		100
34) 1,2-Dibromoethane	16.57	107	2661298	39.04	ug/L		100
35) Chlorobenzene	17.43	112	9681263	39.34	ug/L	m	0
36) 1,1,1,2-Tetrachloroethane	17.56	131	4081175	37.76	ug/L		97
37) Ethylbenzene	17.60	91	17160562	37.67	ug/L		97
38) Xylene (para & meta)	17.81	106	12756573	77.27	ug/L	m	99
39) Xylene (Ortho)	18.52	106	5937952	39.09	ug/L		91
40) Styrene	18.54	104	9213631	39.18	ug/L		88

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

Quantitation Report

062

Data File : d:\hpchem\1\data\c0276.d
Acq On : 21 Nov 95 10:18 am
Sample : 40 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 11:18 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.88	173	2023918	37.79	ug/L		96
42)	Isopropylbenzene	19.17	105	16768168	37.34	ug/L	m	0
44)	Bromobenzene	19.74	156	4325694	38.64	ug/L	m	0
45)	1,1,2,2-Tetrachloroethane	19.70	83	2225957	40.08	ug/L		98
46)	1,2,3-Trichloropropane	19.78	75	2238025	35.99	ug/L	#	12
47)	n-Propylbenzene	19.91	91	22705937	37.19	ug/L		97
48)	2-Chlorotoluene	20.08	91	13504805	38.14	ug/L		95
49)	4-Chlorotoluene	20.27	91	14709970	35.76	ug/L		95
50)	1,3,5-Trimethylbenzene	20.22	105	14363384	36.06	ug/L		94
51)	tert-Butylbenzene	20.82	119	16201797	37.29	ug/L		95
52)	1,2,4-Trimethylbenzene	20.90	105	14158340	34.70	ug/L		95
53)	sec-Butylbenzene	21.22	105	21775294	36.10	ug/L		98
54)	1,3-Dichlorobenzene	21.44	146	8291350	37.11	ug/L		99
55)	4-Isopropyltoluene	21.48	119	17391875	36.21	ug/L		97
56)	1,4-Dichlorobenzene	21.60	146	8176260	37.19	ug/L		99
58)	1,2-Dichlorobenzene	22.28	146	6501610	37.33	ug/L		99
59)	n-Butylbenzene	22.23	91	17695059	35.75	ug/L		95
60)	1,2-Dibromo-3-chloropropan	23.71	75	453725	32.98	ug/L	#	78
61)	1,2,4-Trichlorobenzene	25.25	180	5391357	37.43	ug/L		98
62)	Hexachlorobutadiene	25.57	225	4629499	35.48	ug/L	m	82
63)	Naphthalene	25.73	128	4877034	36.43	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.22	180	3818605	36.49	ug/L		98
65)	Methyl-tert butyl ether	8.41	73	4202915	35.98	ug/L	m	0
66)	tert-Butyl Alcohol	8.22	59	120228	72.11	ug/L	m	100

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

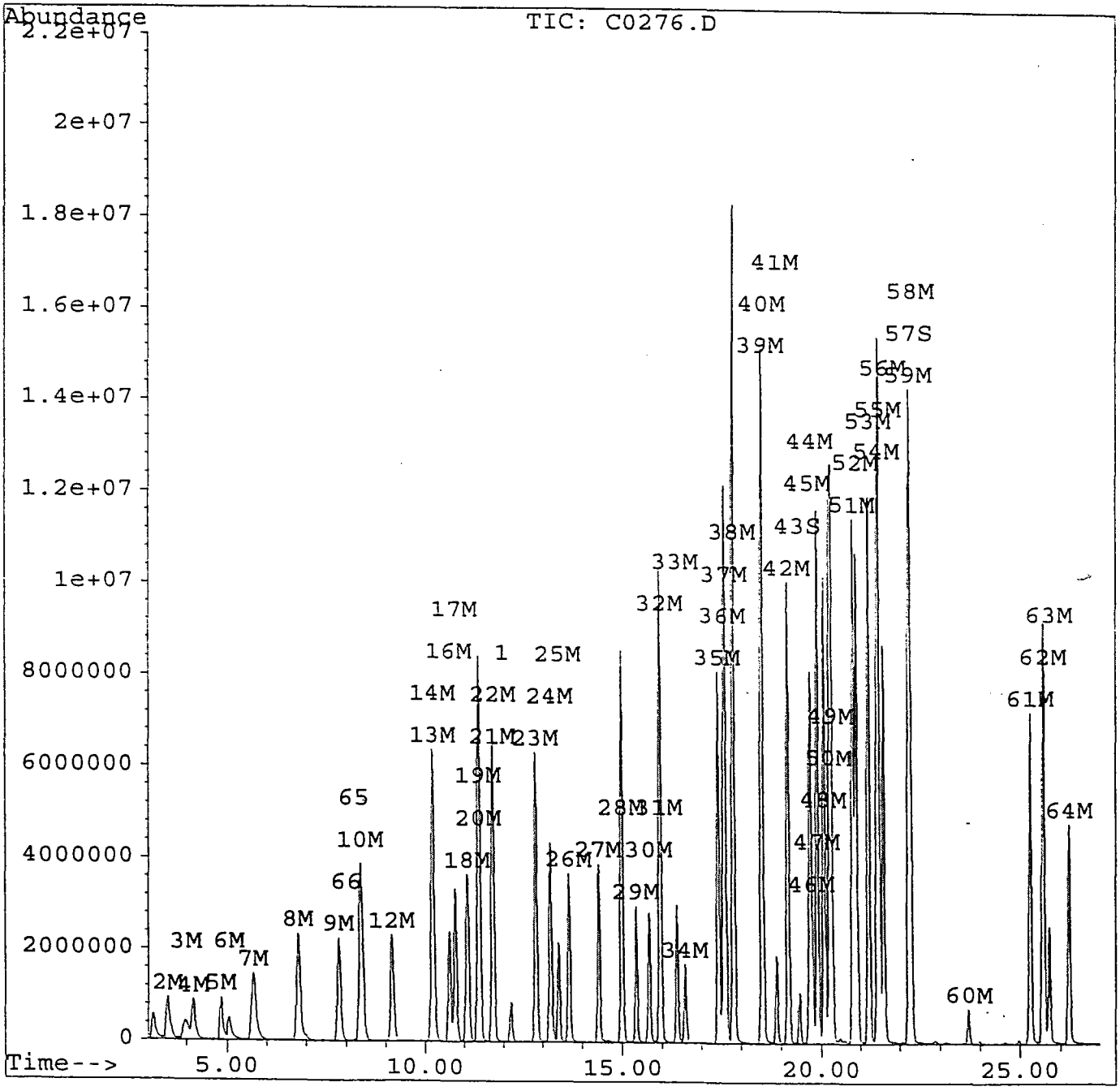
Quantitation Report

063

Data File : d:\hpchem\1\data\c0276.d
Acq On : 21 Nov 95 10:18 am
Sample : 40 PPB STANDARD
Misc : 25 ML
Quant Time: Nov 21 11:18 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 Nov 21 13:42:15 1995
Response via : Multiple Level Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

0C4

Lab Name : EMSL ANALYTICAL Contract: _____

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

Lab File ID: C0425.D BFB Injection Date: 12/2/95

Instrument ID: 5972-INSTRUMENT 1 BFB Injection Time: 1457

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	18.5
75	30.0 - 66.0% of mass 95	43.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.3
175	4.0 - 9.0% of mass 174	4.4 (6.7)1
176	93.0 - 101.0% of mass 174	65.0 (97.9)1
177	5.0 - 9.0% of mass 176	4.4 (6.8)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	C0426.D	12/2/95	1510
02	10 QCS	10 QCS	C0427.D	12/2/95	1544
03	1 STND	1 STND	C0428.D	12/2/95	1618
04	VBLK01	M. BLANK	C0429.D	12/2/95	1652
05	9554060V	9554060V	C0430.D	12/2/95	1726
06	9554061V	9554061V	C0431.D	12/2/95	1800
07	9554062V	9554062V	C0432.D	12/2/95	1835
08	9554101V	9554101V	C0433.D	12/2/95	1909
09	9554102V	9554102V	C0434.D	12/2/95	1944
10	9554063V	9554063V	C0435.D	12/2/95	2017
11	9554060MS	54060MS	C0438.D	12/2/95	2159
12	9554060MSD	54060MSD	C0439.D	12/2/95	2233
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

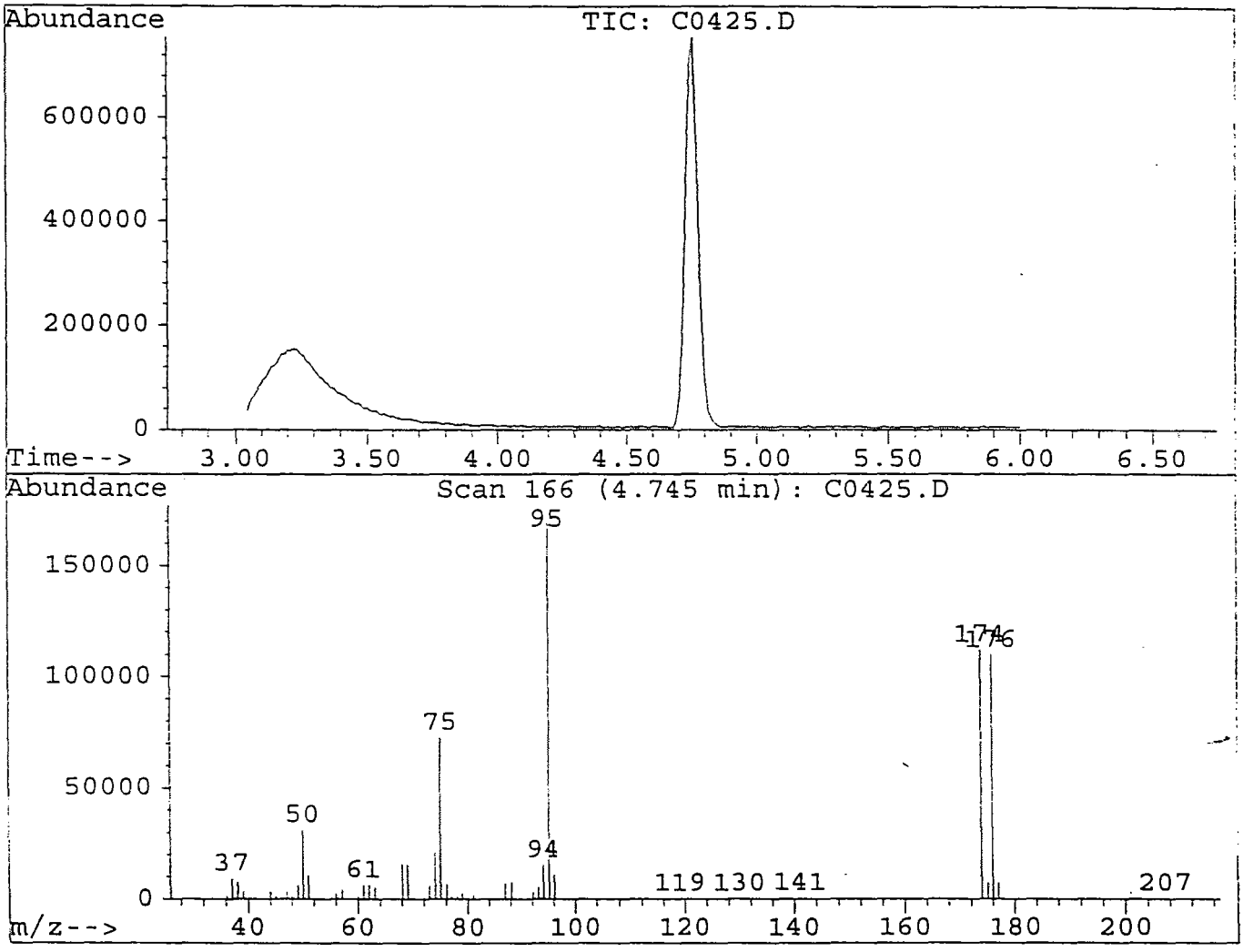
CLPBFB

065

Data File : D:\HPCHEM\1\DATA\C0425.D
Acq On : 2 Dec 95 2:57 pm
Sample : BFB TUNE
Misc : 25 NG INJECTION

Vial: 1
Operator: MDC
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	18.5	31280	PASS
75	95	30	80	43.1	72880	PASS
95	95	100	100	100.0	168960	PASS
96	95	5	9	6.7	11258	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.3	112080	PASS
175	174	5	9	6.7	7513	PASS
176	174	95	101	97.9	109744	PASS
177	176	5	9	6.8	7409	PASS

C0425.D VOA524.M Tue Dec 05 11:43:57 1995 VOA

Scan 166 (4.745 min): C0425.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1840	49.05	6223	68.05	16024	79.90	854
37.10	9334	50.05	31280	69.05	15535	81.00	2231
38.10	7583	51.05	10694	70.05	1159	82.00	554
39.10	3430	52.05	578	71.95	855	86.90	7424
40.00	784	54.95	929	72.95	6164	88.05	7573
41.10	512	56.00	2572	74.05	21272	91.05	699
43.00	593	57.10	4191	75.05	72880	92.05	3103
44.00	3356	60.00	1394	76.05	6616	93.05	5212
45.00	1518	61.00	6520	77.00	1207	94.05	15580
47.05	2903	62.00	6442	78.00	1346	95.05	168960
48.05	1147	63.00	5300	78.90	2768	96.05	11258

Scan 166 (4.745 min): C0425.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.95	503						
116.95	531						
119.00	566						
129.95	557						
140.90	787						
143.00	653						
173.95	112080						
174.95	7513						
175.95	109744						
176.95	7409						
207.10	543						

7A

VOLATILE CONTINUING CALIBRATION CHECK

0C7

Lab Name: EMSL ANALYTICAL Contract: _____

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

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/2/95 Time: 1510

Lab File ID: C0426.D Init. Calib. Date(s): 11/21/95 _____

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	0.271	0.251		7.4	30.0
Chloromethane	0.206	0.204		1.0	30.0
Vinyl chloride	0.229	0.234		-2.2	30.0
Bromomethane	0.159	0.161		-1.3	30.0
Chloroethane	0.127	0.104		18.1	30.0
Trichlorofluoromethane	0.395	0.306		22.5	30.0
1,1-Dichloroethene	0.237	0.227		4.2	30.0
Methylene chloride	0.237	0.231		2.5	30.0
trans-1,2-Dichloroethene	0.270	0.267		1.1	30.0
1,1-Dichloroethane	0.508	0.499		1.8	30.0
2,2-Dichloropropane	0.424	0.432		-1.9	30.0
cis-1,2-Dichloroethene	0.266	0.265		0.4	30.0
Bromochloromethane	0.115	0.107		7.0	30.0
Chloroform	0.469	0.459		2.1	30.0
1,1,1-Trichloroethane	0.454	0.455		-0.2	30.0
Carbon tetrachloride	0.429	0.431		-0.5	30.0
1,1-Dichloropropene	0.424	0.430		-1.4	30.0
Benzene	0.870	0.854		1.8	30.0
1,2-Dichloroethane	0.195	0.183		6.2	30.0
Trichloroethene	0.361	0.361		0.0	30.0
1,2-Dichloropropane	0.302	0.297		1.7	30.0
Dibromomethane	0.132	0.126		4.5	30.0
Bromodichloromethane	0.391	0.380		2.8	30.0
cis-1,3-Dichloropropene	0.352	0.343		2.6	30.0
Toluene	0.614	0.617		-0.5	30.0
trans-1,3-Dichloropropene	0.243	0.230		5.3	30.0
1,1,2-Trichloroethane	0.131	0.124		5.3	30.0
Tetrachloroethene	0.435	0.431		0.9	30.0
1,3-Dichloropropane	0.247	0.238		3.6	30.0
Dibromochloromethane	0.260	0.245		5.8	30.0
1,2-Dibromoethane	0.000	0.000			30.0
Chlorobenzene	0.707	0.699		1.1	30.0
1,1,1,2-Tetrachloroethane	0.294	0.291		1.0	30.0
Ethylbenzene	1.261	1.258		0.2	30.0
Xylene (para & meta)	0.477	0.480		-0.6	30.0
Xylene (Ortho)	0.438	0.434		0.9	30.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

066

Lab Name: EMSL ANALYTICAL Contract: _____

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

Instrument ID: 5972-INSTRUMENT 1 Calibration Date: 12/2/95 Time: 1510

Lab File ID: C0426.D Init. Calib. Date(s): 11/21/95 _____

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	0.672	0.670		0.3	30.0
Bromoform	0.142	0.133		6.3	30.0
Isopropylbenzene	1.219	1.223		-0.3	30.0
Bromobenzene	0.316	0.310		1.9	30.0
1,1,2,2-Tetrachloroethane	0.160	0.150		6.3	30.0
1,2,3-Trichloropropane	0.164	0.155		5.5	30.0
n-Propylbenzene	1.664	1.701		-2.2	30.0
2-Chlorotoluene	0.973	0.936		3.8	30.0
4-Chlorotoluene	1.084	1.099		-1.4	30.0
1,3,5-Trimethylbenzene	1.057	1.056		0.1	30.0
tert-Butylbenzene	1.187	1.208		-1.8	30.0
1,2,4-Trimethylbenzene	1.056	1.036		1.9	30.0
sec-Butylbenzene	1.612	1.667		-3.4	30.0
1,3-Dichlorobenzene	0.625	0.613		1.9	30.0
4-Isopropyltoluene	1.296	1.344		-3.7	30.0
1,4-Dichlorobenzene	0.612	0.594		2.9	30.0
1,2-Dichlorobenzene	0.494	0.469		5.1	30.0
n-Butylbenzene	1.315	1.352		-2.8	30.0
1,2-Dibromo-3-chloropropane	0.034	0.029		14.7	30.0
1,2,4-Trichlorobenzene	0.400	0.363		9.3	30.0
Hexachlorobutadiene	0.348	0.330		5.2	30.0
Naphthalene	0.387	0.331		14.5	30.0
1,2,3-Trichlorobenzene	0.292	0.258		11.6	30.0
4-Bromofluorobenzene	0.540	0.533		1.3	30.0
1,2-Dichlorobenzene-d4	0.338	0.331		2.1	30.0

Evaluate Continuing Calibration Report

069

Data File : D:\HPCHEM\1\DATA\C0426.D
Acq On : 2 Dec 95 3:10 pm
Sample : 10 PPB CHK STANDARD
Misc :

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

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 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	106	-0.05
2	M	Dichlorodifluoromethane	0.271	0.251	7.2	100	-0.02
3	M	Chloromethane	0.206	0.204	0.8	104	0.00
4	M	Vinyl chloride	0.229	0.234	-2.4	109	-0.04
5	M	Bromomethane	0.159	0.161	-1.6	104	-0.07
6	M	Chloroethane	0.127	0.104	18.5	79	-0.11
7	M	Trichlorofluoromethane	0.395	0.306	22.5	83	-0.20
8	M	1,1-Dichloroethene	0.237	0.227	4.0	103	-0.13
9	M	Methylene chloride	0.237	0.231	2.3	88	-0.08
0	M	trans-1,2-Dichloroethene	0.270	0.267	1.1	105	-0.07
1		Hexane	0.000	0.000#	0.0	0#	-0.50#
12	M	1,1-Dichloroethane	0.508	0.499	1.8	103	-0.06
3	M	2,2-Dichloropropane	0.424	0.432	-1.7	112	-0.06
4	M	cis-1,2-Dichloroethene	0.266	0.265	0.2	102	-0.05
15		2-Butanone	0.000	0.000#	0.0	0#	0.00
16	M	Bromochloromethane	0.115	0.107	6.7	92	-0.05
7	M	Chloroform	0.469	0.459	2.2	102	-0.05
18	M	1,1,1-Trichloroethane	0.454	0.455	-0.1	106	-0.05
19	M	Carbon tetrachloride	0.429	0.431	-0.3	106	-0.05
0	M	1,1-Dichloropropene	0.424	0.430	-1.6	108	-0.06
1	M	Benzene	0.870	0.854	1.9	103	-0.05
22	M	1,2-Dichloroethane	0.195	0.183	6.3	92	-0.05
3	M	Trichloroethene	0.361	0.361	0.0	105	-0.05
4	M	1,2-Dichloropropane	0.302	0.297	1.8	99	-0.04
25	M	Dibromomethane	0.132	0.126	4.8	92	-0.04
26	M	Bromodichloromethane	0.391	0.380	2.7	98	-0.04
7	M	cis-1,3-Dichloropropene	0.352	0.343	2.7	98	-0.04
28	M	Toluene	0.614	0.617	-0.6	102	-0.05
29	M	trans-1,3-Dichloropropene	0.243	0.230	5.6	93	-0.05
0	M	1,1,2-Trichloroethane	0.131	0.124	5.2	91	-0.04
1	M	Tetrachloroethene	0.435	0.431	1.0	105	-0.05
32	M	1,3-Dichloropropane	0.247	0.238	3.8	93	-0.05
3	M	Dibromochloromethane	0.260	0.245	5.6	92	-0.05
4	M	1,2-Dibromoethane	0.190	0.180	5.4	90	-0.05
35	M	Chlorobenzene	0.707	0.699	1.2	101	-0.04
36	M	1,1,1,2-Tetrachloroethane	0.294	0.291	0.9	98	-0.05
7	M	Ethylbenzene	1.261	1.258	0.3	104	-0.05
38	M	Xylene (para & meta)	0.477	0.480	-0.7	104	-0.05
39	M	Xylene (Ortho)	0.438	0.434	0.9	101	-0.05
0	M	Styrene	0.672	0.670	0.3	99	-0.05
1	M	Bromoform	0.142	0.133	6.9	87	-0.05
42	M	Isopropylbenzene	1.219	1.223	-0.4	104	-0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

070

Data File : D:\HPCHEM\1\DATA\C0426.D
Acq On : 2 Dec 95 3:10 pm
Sample : 10 PPB CHK STANDARD
Misc :

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

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 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	0.540	0.533	1.3	101	-0.04
44	M	Bromobenzene	0.316	0.310	1.9	96	-0.05
5	M	1,1,2,2-Tetrachloroethane	0.160	0.150	5.9	87	-0.05
6	M	1,2,3-Trichloropropane	0.164	0.155	5.5	90	-0.05
47	M	n-Propylbenzene	1.664	1.701	-2.3	106	-0.05
48	M	2-Chlorotoluene	0.973	0.936	3.8	102	-0.05
9	M	4-Chlorotoluene	1.084	1.099	-1.4	103	-0.05
50	M	1,3,5-Trimethylbenzene	1.057	1.056	0.1	102	-0.05
51	M	tert-Butylbenzene	1.187	1.208	-1.7	104	-0.05
2	M	1,2,4-Trimethylbenzene	1.056	1.036	2.0	100	-0.06
3	M	sec-Butylbenzene	1.612	1.667	-3.4	106	-0.05
54	M	1,3-Dichlorobenzene	0.625	0.613	2.0	97	-0.05
5	M	4-Isopropyltoluene	1.296	1.344	-3.7	105	-0.05
6	M	1,4-Dichlorobenzene	0.612	0.594	3.1	95	-0.06
57	S	1,2-Dichlorobenzene-d4	0.338	0.331	2.1	95	-0.06
58	M	1,2-Dichlorobenzene	0.494	0.469	5.1	92	-0.05
9	M	n-Butylbenzene	1.315	1.352	-2.8	105	-0.05
60	M	1,2-Dibromo-3-chloropropane	0.034	0.029	14.5	82	-0.05
61	M	1,2,4-Trichlorobenzene	0.400	0.363	9.2	86	-0.06
2	M	Hexachlorobutadiene	0.348	0.330	5.1	96	-0.07
3	M	Naphthalene	0.387	0.331	14.4	79	-0.06
64	M	1,2,3-Trichlorobenzene	0.292	0.258	11.6	81	-0.08
5		Methyl-tert butyl ether	0.306	0.271	11.4	85	-0.02
6		tert-Butyl Alcohol	0.005	0.005	-19.0	111	0.10

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

Quantitation Report

Data File : d:\hpchem\1\data\c0426.d
Acq On : 2 Dec 95 3:10 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 5 11:48 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.16	96	1705729	5.00	ug/L		-0.05
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.41	95	908868	4.94	ug/L		98.71%
57) 1,2-Dichlorobenzene-d4	22.19	152	565010	4.89	ug/L		97.86%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.52	85	856970	9.28	ug/L		98
3) Chloromethane	3.99	50	695700	9.92	ug/L	m	0
4) Vinyl chloride	4.14	62	798674	10.24	ug/L		95
5) Bromomethane	4.81	94	550920	10.16	ug/L		95
6) Chloroethane	5.00	64	353364	8.15	ug/L		98
7) Trichlorofluoromethane	5.52	101	1044896	7.75	ug/L		99
8) 1,1-Dichloroethene	6.69	96	775304	9.60	ug/L		95
9) Methylene chloride	7.75	84	789018	9.77	ug/L		99
10) trans-1,2-Dichloroethene	8.29	96	912127	9.89	ug/L		98
12) 1,1-Dichloroethane	9.10	63	1700914	9.82	ug/L		98
13) 2,2-Dichloropropane	10.15	77	1472718	10.17	ug/L		97
14) cis-1,2-Dichloroethene	10.17	96	904597	9.98	ug/L		99
16) Bromochloromethane	10.59	128	366668	9.33	ug/L		98
17) Chloroform	10.74	83	1566049	9.78	ug/L		100
18) 1,1,1-Trichloroethane	11.04	97	1551232	10.01	ug/L		100
19) Carbon tetrachloride	11.33	117	1469879	10.03	ug/L		98
20) 1,1-Dichloropropene	11.32	75	1468216	10.16	ug/L		99
21) Benzene	11.68	78	2912377	9.81	ug/L		99
22) 1,2-Dichloroethane	11.71	62	623027	9.37	ug/L		97
23) Trichloroethene	12.79	95	1230366	10.00	ug/L		99
24) 1,2-Dichloropropane	13.17	63	1012080	9.82	ug/L		100
25) Dibromomethane	13.37	93	430260	9.52	ug/L		99
26) Bromodichloromethane	13.63	83	1297306	9.73	ug/L		97
27) cis-1,3-Dichloropropene	14.39	75	1170291	9.73	ug/L		98
28) Toluene	14.95	92	2105743	10.06	ug/L		99
29) trans-1,3-Dichloropropene	15.31	75	783292	9.44	ug/L		99
30) 1,1,2-Trichloroethane	15.63	83	422366	9.48	ug/L		97
31) Tetrachloroethene	15.90	166	1470134	9.90	ug/L		98
32) 1,3-Dichloropropane	15.92	76	811574	9.62	ug/L		99
33) Dibromochloromethane	16.32	129	837111	9.44	ug/L		99
34) 1,2-Dibromoethane	16.53	107	613992	9.46	ug/L		98
35) Chlorobenzene	17.39	112	2384763	9.88	ug/L		98
36) 1,1,1,2-Tetrachloroethane	17.52	131	992957	9.91	ug/L		100
37) Ethylbenzene	17.56	91	4290456	9.97	ug/L		100
38) Xylene (para & meta)	17.77	106	3276875	20.14	ug/L		98
39) Xylene (Ortho)	18.47	106	1479577	9.91	ug/L		99
40) Styrene	18.49	104	2286170	9.97	ug/L		100

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

Data File : d:\hpchem\1\data\c0426.d
Acq On : 2 Dec 95 3:10 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 5 11:48 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.84	173	452299	9.31	ug/L		100
42)	Isopropylbenzene	19.12	105	4173599	10.04	ug/L	m	0
44)	Bromobenzene	19.68	156	1057253	9.81	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.64	83	513094	9.41	ug/L		99
46)	1,2,3-Trichloropropane	19.73	75	529285	9.45	ug/L		100
47)	n-Propylbenzene	19.86	91	5803596	10.23	ug/L		100
48)	2-Chlorotoluene	20.03	91	3191951	9.62	ug/L		100
49)	4-Chlorotoluene	20.22	91	3748606	10.14	ug/L		100
50)	1,3,5-Trimethylbenzene	20.17	105	3604101	9.99	ug/L		98
51)	tert-Butylbenzene	20.77	119	4120085	10.17	ug/L		98
52)	1,2,4-Trimethylbenzene	20.85	105	3533025	9.80	ug/L		100
53)	sec-Butylbenzene	21.17	105	5687670	10.34	ug/L		100
54)	1,3-Dichlorobenzene	21.39	146	2089699	9.80	ug/L		99
55)	4-Isopropyltoluene	21.43	119	4584134	10.37	ug/L		100
56)	1,4-Dichlorobenzene	21.54	146	2025135	9.69	ug/L		99
58)	1,2-Dichlorobenzene	22.23	146	1600104	9.49	ug/L		97
59)	n-Butylbenzene	22.18	91	4613919	10.28	ug/L		100
60)	1,2-Dibromo-3-chloropropan	23.65	75	98502	8.55	ug/L		98
61)	1,2,4-Trichlorobenzene	25.19	180	1239963	9.08	ug/L		100
62)	Hexachlorobutadiene	25.51	225	1125882	9.49	ug/L		99
63)	Naphthalene	25.66	128	1129436	8.56	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.15	180	879695	8.84	ug/L	m	0
65)	Methyl-tert butyl ether	8.38	73	924483	8.86	ug/L		99
66)	tert-Butyl Alcohol	8.29	59	36590	23.80	ug/L	m	100

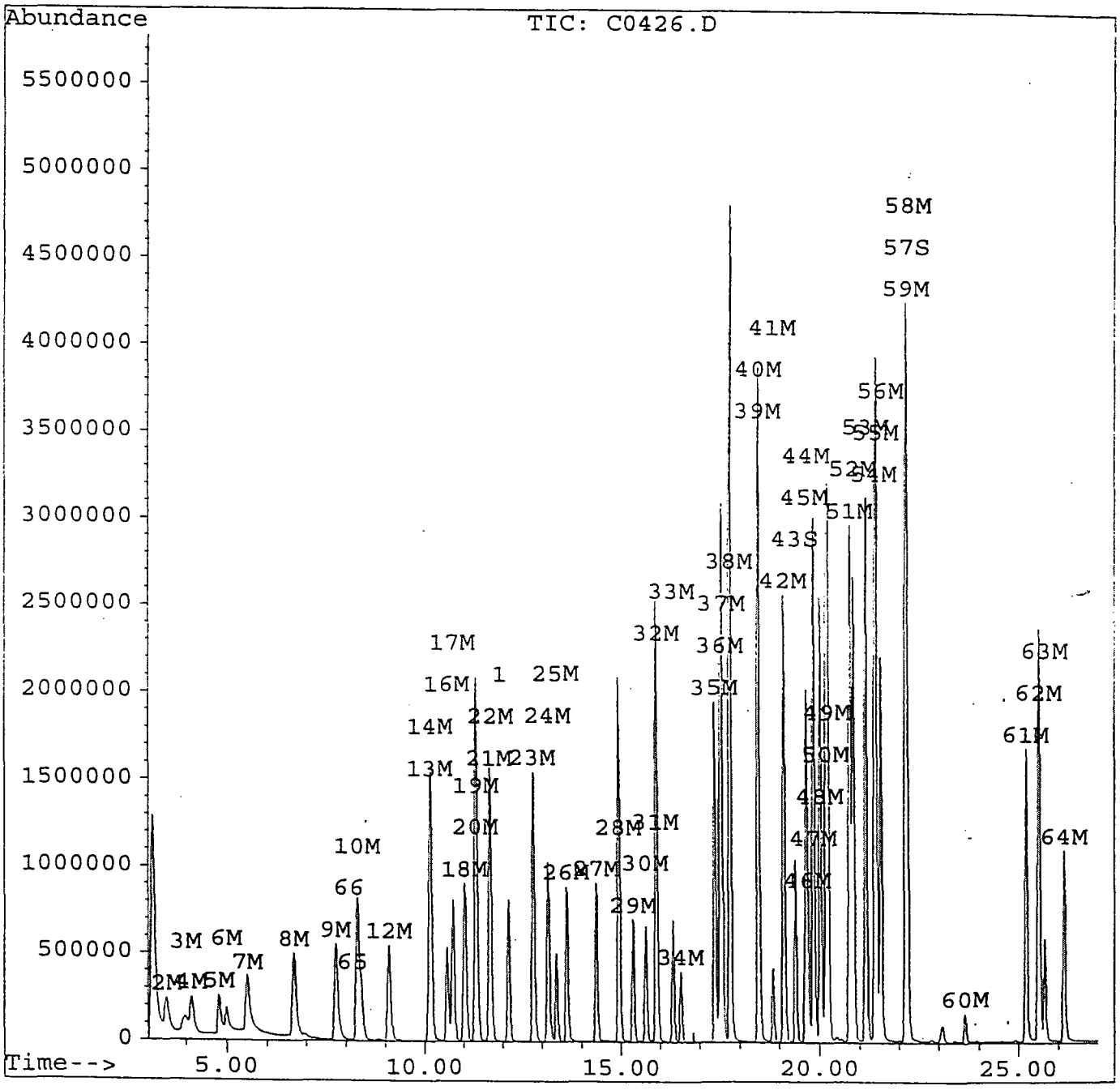
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0426.d
Acq On : 2 Dec 95 3:10 pm
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 5 11:48 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0427.d
Acq On : 2 Dec 95 3:44 pm
Sample : 10 PPB QCS
Misc :
Quant Time: Dec 5 11:50 1995

Vial: 3 074
Operator: MDC
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.17	96	1696795	5.00	ug/L		-0.04
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.40	95	908806	4.96	ug/L		99.22%
57) 1,2-Dichlorobenzene-d4	22.20	152	567828	4.94	ug/L		98.87%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.52	85	931653	10.15	ug/L		99
3) Chloromethane	3.96	50	592833	8.49	ug/L		100
4) Vinyl chloride	4.16	62	766960	9.88	ug/L		100
5) Bromomethane	4.81	94	541440	10.04	ug/L		97
6) Chloroethane	5.02	64	331696	7.69	ug/L		98
7) Trichlorofluoromethane	5.62	101	1372203	10.23	ug/L		99
8) 1,1-Dichloroethene	6.76	96	875213	10.90	ug/L		99
9) Methylene chloride	7.77	84	821134	10.22	ug/L		99
10) trans-1,2-Dichloroethene	8.31	96	960433	10.47	ug/L		99
12) 1,1-Dichloroethane	9.11	63	1769981	10.27	ug/L		99
13) 2,2-Dichloropropane	10.17	77	1477588	10.26	ug/L		99
14) cis-1,2-Dichloroethene	10.18	96	933834	10.35	ug/L		99
16) Bromochloromethane	10.60	128	390056	9.98	ug/L		99
17) Chloroform	10.74	83	1605081	10.08	ug/L		100
18) 1,1,1-Trichloroethane	11.05	97	1569689	10.18	ug/L		100
19) Carbon tetrachloride	11.35	117	1504710	10.33	ug/L		98
20) 1,1-Dichloropropene	11.34	75	1562320	10.87	ug/L		99
21) Benzene	11.69	78	2829954	9.59	ug/L		100
22) 1,2-Dichloroethane	11.72	62	651192	9.85	ug/L		98
23) Trichloroethene	12.80	95	1268068	10.36	ug/L		99
24) 1,2-Dichloropropane	13.17	63	1044460	10.19	ug/L		100
25) Dibromomethane	13.37	93	454491	10.11	ug/L		94
26) Bromodichloromethane	13.63	83	1369980	10.33	ug/L		100
27) cis-1,3-Dichloropropene	14.38	75	1319370	11.03	ug/L		98
28) Toluene	14.96	92	2023813	9.72	ug/L		98
29) trans-1,3-Dichloropropene	15.31	75	861707	10.44	ug/L	m	50
30) 1,1,2-Trichloroethane	15.63	83	447902	10.11	ug/L		97
31) Tetrachloroethene	15.91	166	1482773	10.04	ug/L		99
32) 1,3-Dichloropropane	15.93	76	854527	10.18	ug/L		99
33) Dibromochloromethane	16.33	129	888175	10.07	ug/L		99
34) 1,2-Dibromoethane	16.53	107	648644	10.04	ug/L		99
35) Chlorobenzene	17.38	112	2385736	9.94	ug/L		99
36) 1,1,1,2-Tetrachloroethane	17.52	131	1022348	10.25	ug/L		99
37) Ethylbenzene	17.56	91	4178772	9.77	ug/L		99
38) Xylene (para & meta)	17.76	106	3211221	19.84	ug/L		99
39) Xylene (Ortho)	18.47	106	1489801	10.03	ug/L		96
40) Styrene	18.49	104	2305249	10.11	ug/L		99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0427.d
Acq On : 2 Dec 95 3:44 pm
Sample : 10 PPB QCS
Misc :
Quant Time: Dec 5 11:50 1995

Vial: 3 075
Operator: MDC
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.84	173	482962	9.99	ug/L		100
42)	Isopropylbenzene	19.12	105	4455553	10.77	ug/L	m	0
44)	Bromobenzene	19.68	156	1039887	9.70	ug/L		98
45)	1,1,2,2-Tetrachloroethane	19.64	83	568803	10.48	ug/L		98
46)	1,2,3-Trichloropropane	19.72	75	558178	10.02	ug/L		93
47)	n-Propylbenzene	19.86	91	5738104	10.16	ug/L		100
48)	2-Chlorotoluene	20.03	91	3207929	9.72	ug/L		97
49)	4-Chlorotoluene	20.22	91	3708360	10.08	ug/L		99
50)	1,3,5-Trimethylbenzene	20.18	105	3458711	9.64	ug/L		98
51)	tert-Butylbenzene	20.77	119	4064034	10.09	ug/L		99
52)	1,2,4-Trimethylbenzene	20.86	105	3344978	9.33	ug/L		99
53)	sec-Butylbenzene	21.17	105	5625860	10.28	ug/L		100
54)	1,3-Dichlorobenzene	21.38	146	2111505	9.96	ug/L		99
55)	4-Isopropyltoluene	21.43	119	4447893	10.11	ug/L		100
56)	1,4-Dichlorobenzene	21.55	146	2081863	10.02	ug/L		99
58)	1,2-Dichlorobenzene	22.23	146	1641813	9.79	ug/L		98
59)	n-Butylbenzene	22.18	91	4450184	9.97	ug/L		100
60)	1,2-Dibromo-3-chloropropan	23.64	75	110917	9.68	ug/L		92
61)	1,2,4-Trichlorobenzene	25.20	180	1259570	9.27	ug/L		97
62)	Hexachlorobutadiene	25.52	225	1195848	10.13	ug/L		100
63)	Naphthalene	25.66	128	1156997	8.82	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.16	180	914790	9.24	ug/L		99

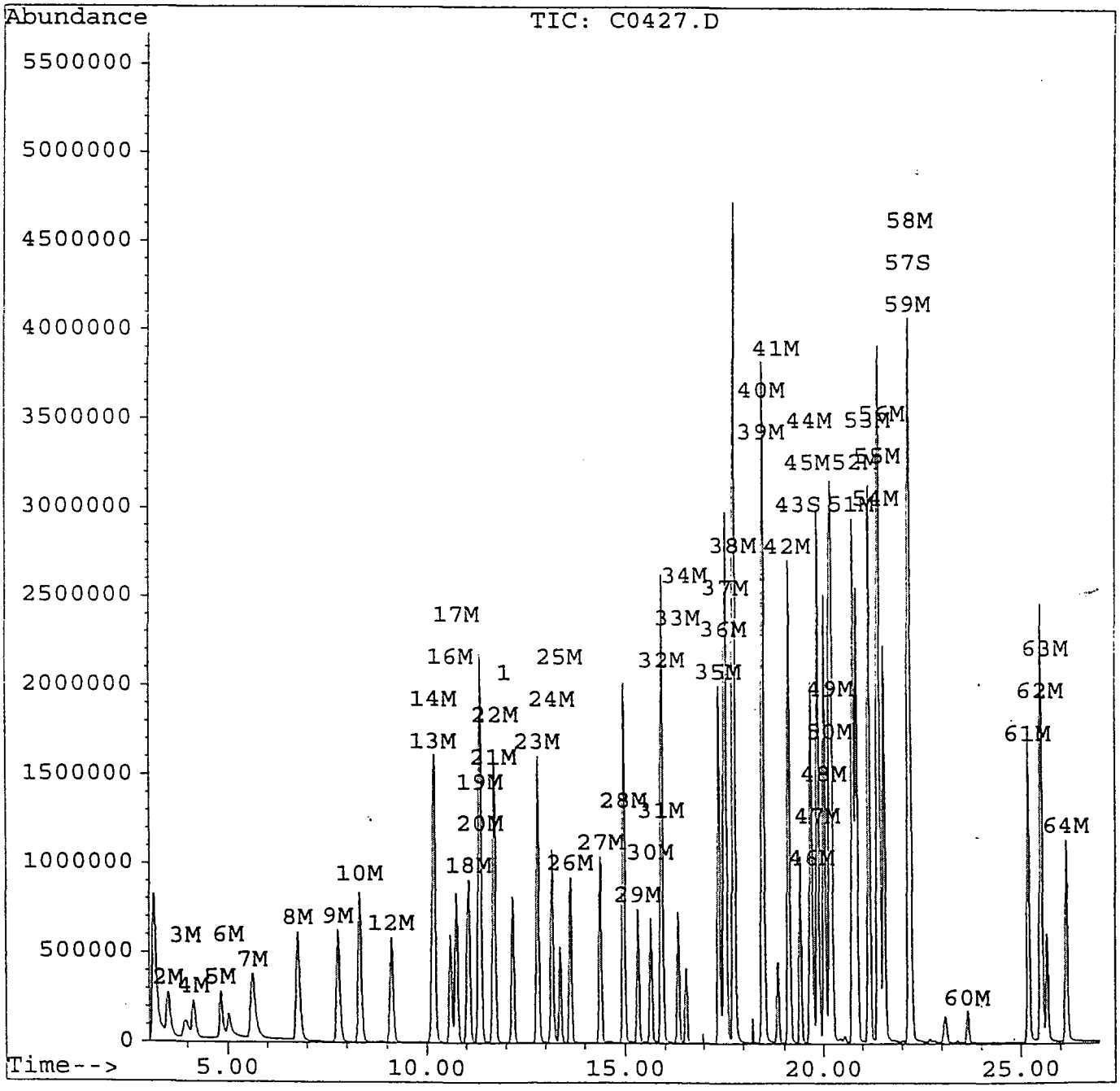
(#) = qualifier out of range (m) = manual integration

Library Quantitation Reportort

Data File : d:\hpchem\1\data\c0427.d
Acq On : 2 Dec 95 3:44 pm
Sample : 10 PPB QCS
Misc :
Quant Time: Dec 5 11:50 1995

Vial: 3 076
Operator: MDC
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0428.d
Acq On : 2 Dec 95 4:18 pm
Sample : 1 PPB STANDARD
Misc :
Quant Time: Dec 2 16:46 1995

Vial: 4 077
Operator: MDC
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.18	96	1696953	5.00	ug/L	-0.03
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.40	95	899221	4.91	ug/L	98.16%
57) 1,2-Dichlorobenzene-d4	22.20	152	568907	4.95	ug/L	99.05%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.50	85	92435	1.01	ug/L	96
3) Chloromethane	3.96	50	80228	1.15	ug/L	98
4) Vinyl chloride	4.14	62	84536	1.09	ug/L	91
5) Bromomethane	4.82	94	86699	1.61	ug/L	92
6) Chloroethane	5.03	64	40842	0.95	ug/L	99
7) Trichlorofluoromethane	5.64	101	144066	1.07	ug/L	99
8) 1,1-Dichloroethene	6.76	96	90895	1.13	ug/L	99
9) Methylene chloride	7.79	84	208192	2.59	ug/L	96
10) trans-1,2-Dichloroethene	8.32	96	102057	1.11	ug/L	97
12) 1,1-Dichloroethane	9.11	63	187306	1.09	ug/L	99
13) 2,2-Dichloropropane	10.18	77	157362	1.09	ug/L	99
14) cis-1,2-Dichloroethene	10.19	96	99799	1.11	ug/L	98
16) Bromochloromethane	10.60	128	42395	1.08	ug/L	94
17) Chloroform	10.75	83	176794	1.11	ug/L	98
18) 1,1,1-Trichloroethane	11.06	97	167711	1.09	ug/L	100
19) Carbon tetrachloride	11.35	117	154353	1.06	ug/L	96
20) 1,1-Dichloropropene	11.34	75	160448	1.12	ug/L	98
21) Benzene	11.70	78	323363	1.10	ug/L	99
22) 1,2-Dichloroethane	11.72	62	70227	1.06	ug/L	98
23) Trichloroethene	12.79	95	132952	1.09	ug/L	95
24) 1,2-Dichloropropane	13.17	63	113651	1.11	ug/L	100
25) Dibromomethane	13.38	93	49937	1.11	ug/L	93
26) Bromodichloromethane	13.64	83	142251	1.07	ug/L	100
27) cis-1,3-Dichloropropene	14.38	75	128330	1.07	ug/L	97
28) Toluene	14.96	92	233796	1.12	ug/L	97
29) trans-1,3-Dichloropropene	15.32	75	89375	1.08	ug/L	96
30) 1,1,2-Trichloroethane	15.64	83	50139	1.13	ug/L	99
31) Tetrachloroethene	15.91	166	159032	1.08	ug/L	99
32) 1,3-Dichloropropane	15.93	76	95374	1.14	ug/L	97
33) Dibromochloromethane	16.32	129	93789	1.06	ug/L	92
34) 1,2-Dibromoethane	16.54	107	68958	1.07	ug/L	93
35) Chlorobenzene	17.38	112	271747	1.13	ug/L	98
36) 1,1,1,2-Tetrachloroethane	17.52	131	112753	1.13	ug/L	97
37) Ethylbenzene	17.56	91	480994	1.12	ug/L	99
38) Xylene (para & meta)	17.76	106	363580	2.25	ug/L	100
39) Xylene (Ortho)	18.46	106	166681	1.12	ug/L	98
40) Styrene	18.50	104	252084	1.11	ug/L	100

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

Quantitation Report

Data File : d:\hpchem\1\data\c0428.d
Acq On : 2 Dec 95 4:18 pm
Sample : 1 PPB STANDARD
Misc :
Quant Time: Dec 2 16:46 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.84	173	52408	1.08	ug/L		95
42)	Isopropylbenzene	19.12	105	464873	1.12	ug/L		94
44)	Bromobenzene	19.69	156	124444	1.16	ug/L		98
45)	1,1,2,2-Tetrachloroethane	19.64	83	66700	1.23	ug/L		99
46)	1,2,3-Trichloropropane	19.73	75	70802	1.27	ug/L	#	61
47)	n-Propylbenzene	19.86	91	643192	1.14	ug/L		99
48)	2-Chlorotoluene	20.03	91	369204	1.12	ug/L		100
49)	4-Chlorotoluene	20.22	91	430438	1.17	ug/L		98
50)	1,3,5-Trimethylbenzene	20.18	105	406396	1.13	ug/L		95
51)	tert-Butylbenzene	20.76	119	464587	1.15	ug/L		97
52)	1,2,4-Trimethylbenzene	20.86	105	403432	1.13	ug/L		99
53)	sec-Butylbenzene	21.17	105	637458	1.17	ug/L		99
54)	1,3-Dichlorobenzene	21.38	146	246447	1.16	ug/L		99
55)	4-Isopropyltoluene	21.42	119	502971	1.14	ug/L		99
56)	1,4-Dichlorobenzene	21.55	146	243225	1.17	ug/L		99
58)	1,2-Dichlorobenzene	22.24	146	199971	1.19	ug/L		98
59)	n-Butylbenzene	22.18	91	523940	1.17	ug/L		98
60)	1,2-Dibromo-3-chloropropan	23.65	75	13979	1.22	ug/L		92
61)	1,2,4-Trichlorobenzene	25.20	180	160211	1.18	ug/L		98
62)	Hexachlorobutadiene	25.52	225	131685	1.12	ug/L		99
63)	Naphthalene	25.67	128	164967	1.26	ug/L		100
64)	1,2,3-Trichlorobenzene	26.16	180	120276	1.21	ug/L		97
65)	Methyl-tert butyl ether	8.36	73	111745	1.08	ug/L		100
66)	tert-Butyl Alcohol	8.20	59	1723	1.13	ug/L		100

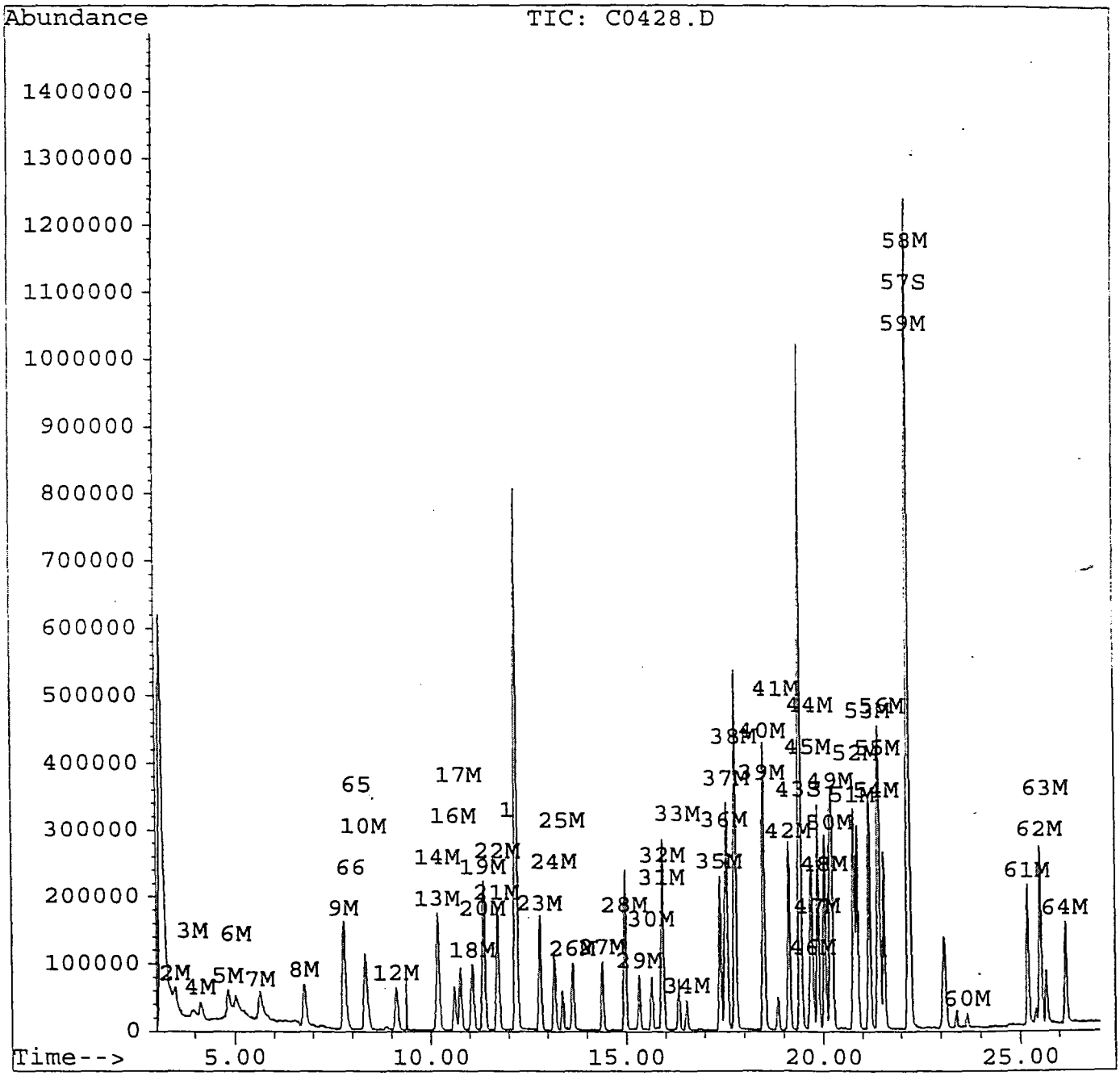
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0428.d
Acq On : 2 Dec 95 4:18 pm
Sample : 1 PPB STANDARD
Misc :
Quant Time: Dec 2 16:46 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

000

Lab Name : EMSL ANALYTICAL Contract: _____

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

Lab File ID: C0541.D BFB Injection Date: 12/11/95

Instrument ID: 5972-INSTRUMENT BFB Injection Time: 1034

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	19.5
75	30.0 - 66.0% of mass 95	45.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (0.6)1
174	50.0 - 120.0% of mass 95	61.8
175	4.0 - 9.0% of mass 174	4.3 (6.9)1
176	93.0 - 101.0% of mass 174	59.5 (96.3)1
177	5.0 - 9.0% of mass 176	4.1 (6.9)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	C0542.D	12/11/95	1047
02	VBLK01	M. BLANK	C0543.D	12/11/95	1122
03	9556244V	9556244V	C0544.D	12/11/95	1157
04	9554556V	9554556V	C0545.D	12/11/95	1232
05	9554783V	9554783V	C0546.D	12/11/95	1307
06	9554784V	9554784V	C0547.D	12/11/95	1342
07	9554782V	9554782V	C0548.D	12/11/95	1417
08	9554781V	9554781V	C0549.D	12/11/95	1452
09	9554785V	9554785V	C0550.D	12/11/95	1527
10	9554786V	9554786V	C0551.D	12/11/95	1601
11	9556244R	9556244R	C0552.D	12/11/95	1636
12	9557565V	9557565V	C0553.D	12/11/95	1710
13	9557565R	9557565R	C0554.D	12/11/95	1744
14	9557078V	9557078V	C0555.D	12/11/95	1818
15	10 QCS	10 QCS	C0556.D	12/11/95	1853
16	1 STND	1 STND	C0557.D	12/11/95	1927
17					
18					
19					
20					
21					
22					

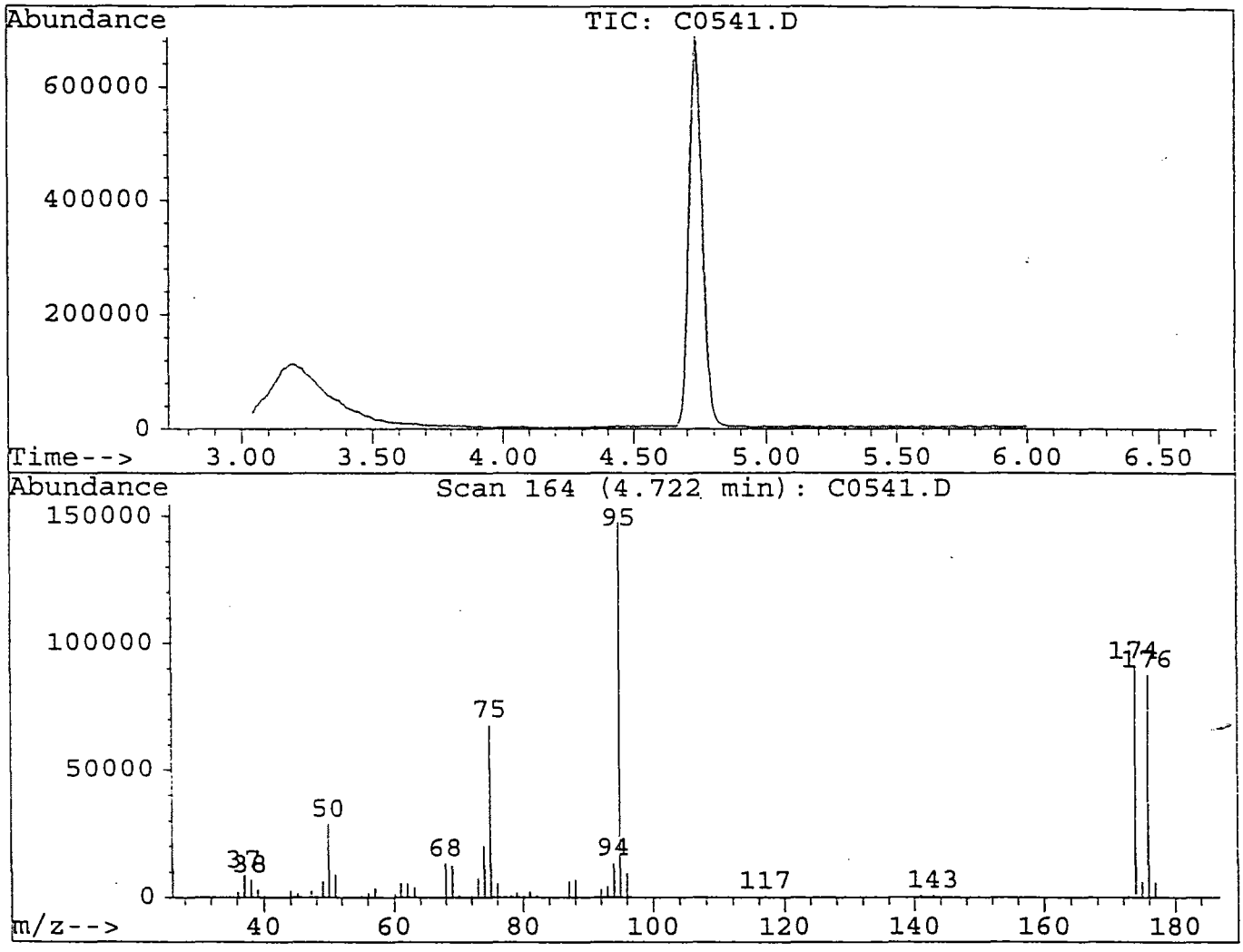
CLPBFB

081

Data File : D:\HPCHEM\1\DATA\C0541.D
Acq On : 11 Dec 95 10:34 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	19.5	28784	PASS
75	95	30	80	45.9	67712	PASS
95	95	100	100	100.0	147392	PASS
96	95	5	9	6.4	9428	PASS
173	174	0	2	0.6	509	PASS
174	95	50	100	61.8	91056	PASS
175	174	5	9	6.9	6274	PASS
176	174	95	101	96.3	87720	PASS
177	176	5	9	6.9	6050	PASS

C0541.D VOA524.M Mon Dec 11 11:19:14 1995 VOA

Scan 164 (4.722 min): C0541.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	2041	50.05	28784	70.05	1257	82.00	669
37.10	8663	51.05	9039	72.05	856	87.00	6564
38.10	6886	55.05	753	73.05	7562	88.05	6907
39.10	3015	56.10	1982	74.05	20200	92.05	3143
40.00	720	57.10	3829	75.05	67712	93.05	4451
43.00	508	60.10	1391	76.05	5544	94.05	13481
44.00	2701	61.00	5860	77.10	973	95.05	147392
45.10	1603	62.00	5621	78.10	1049	96.05	9428
47.15	2509	63.10	3979	79.00	1830	116.95	640
48.05	1021	68.05	13274	80.00	593	140.90	836
49.05	6354	69.05	12568	81.00	2358	142.90	902

Scan 164 (4.722 min): C0541.D
BFB TUNE

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.85	509						
173.95	91056						
174.95	6274						
175.95	87720						
176.95	6050						

7A

VOLATILE CONTINUING CALIBRATION CHECK

088

Lab Name: EMSL ANALYTICAL Contract: _____

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

Instrument ID: 5972-INSTRUMENT Calibration Date: 12/11/95 Time: 1047

Lab File ID: C0542.D Init. Calib. Date(s): 11/21/95 _____

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
Dichlorodifluoromethane	0.271	0.283		-4.4	30.0
Chloromethane	0.206	0.221		-7.3	30.0
Vinyl chloride	0.229	0.237		-3.5	30.0
Bromomethane	0.159	0.159		0.0	30.0
Chloroethane	0.127	0.152		-19.7	30.0
Trichlorofluoromethane	0.395	0.411		-4.1	30.0
1,1-Dichloroethene	0.237	0.243		-2.5	30.0
Methylene chloride	0.237	0.301		-27.0	30.0
trans-1,2-Dichloroethene	0.270	0.273		-1.1	30.0
1,1-Dichloroethane	0.508	0.511		-0.6	30.0
2,2-Dichloropropane	0.424	0.434		-2.4	30.0
cis-1,2-Dichloroethene	0.266	0.258		3.0	30.0
Bromochloromethane	0.115	0.098		14.8	30.0
Chloroform	0.469	0.444		5.3	30.0
1,1,1-Trichloroethane	0.454	0.455		-0.2	30.0
Carbon tetrachloride	0.429	0.423		1.4	30.0
1,1-Dichloropropene	0.424	0.431		-1.7	30.0
Benzene	0.870	0.874		-0.5	30.0
1,2-Dichloroethane	0.195	0.175		10.3	30.0
Trichloroethene	0.361	0.381		-5.5	30.0
1,2-Dichloropropane	0.302	0.295		2.3	30.0
Dibromomethane	0.132	0.115		12.9	30.0
Bromodichloromethane	0.391	0.350		10.5	30.0
cis-1,3-Dichloropropene	0.352	0.320		9.1	30.0
Toluene	0.614	0.618		-0.7	30.0
trans-1,3-Dichloropropene	0.243	0.215		11.5	30.0
1,1,2-Trichloroethane	0.131	0.112		14.5	30.0
Tetrachloroethene	0.435	0.413		5.1	30.0
1,3-Dichloropropane	0.247	0.220		10.9	30.0
Dibromochloromethane	0.260	0.217		16.5	30.0
1,2-Dibromoethane	0.000	0.000			30.0
Chlorobenzene	0.707	0.676		4.4	30.0
1,1,1,2-Tetrachloroethane	0.294	0.269		8.5	30.0
Ethylbenzene	1.261	1.266		-0.4	30.0
Xylene (para & meta)	0.477	0.485		-1.7	30.0
Xylene (Ortho)	0.438	0.435		0.7	30.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

084

Lab Name: EMSL ANALYTICAL Contract: _____

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

Instrument ID: 5972-INSTRUMENT Calibration Date: 12/11/95 Time: 1047

Lab File ID: C0542.D Init. Calib. Date(s): 11/21/95 _____

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	0.672	0.651		3.1	30.0
Bromoform	0.142	0.115		19.0	30.0
Isopropylbenzene	1.219	1.240		-1.7	30.0
Bromobenzene	0.316	0.285		9.8	30.0
1,1,2,2-Tetrachloroethane	0.160	0.102		36.3	30.0
1,2,3-Trichloropropane	0.164	0.146		11.0	30.0
n-Propylbenzene	1.664	1.714		-3.0	30.0
2-Chlorotoluene	0.973	0.918		5.7	30.0
4-Chlorotoluene	1.084	1.097		-1.2	30.0
1,3,5-Trimethylbenzene	1.057	1.052		0.5	30.0
tert-Butylbenzene	1.187	1.193		-0.5	30.0
1,2,4-Trimethylbenzene	1.056	1.007		4.6	30.0
sec-Butylbenzene	1.612	1.675		-3.9	30.0
1,3-Dichlorobenzene	0.625	0.578		7.5	30.0
4-Isopropyltoluene	1.296	1.340		-3.4	30.0
1,4-Dichlorobenzene	0.612	0.580		5.2	30.0
1,2-Dichlorobenzene	0.494	0.448		9.3	30.0
n-Butylbenzene	1.315	1.386		-5.4	30.0
1,2-Dibromo-3-chloropropane	0.034	0.033		2.9	30.0
1,2,4-Trichlorobenzene	0.400	0.357		10.8	30.0
Hexachlorobutadiene	0.348	0.324		6.9	30.0
Naphthalene	0.387	0.346		10.6	30.0
1,2,3-Trichlorobenzene	0.292	0.265		9.2	30.0
4-Bromofluorobenzene	0.540	0.505		6.5	30.0
1,2-Dichlorobenzene-d4	0.338	0.307		9.2	30.0

Evaluate Continuing Calibration Report

085

Data File : D:\HPCHEM\1\DATA\C0542.D
Acq On : 11 Dec 95 10:47 am
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 : Wed Nov 22 09:25:47 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	93	-0.14
2	M	Dichlorodifluoromethane	0.271	0.283	-4.5	99	-0.10
3	M	Chloromethane	0.206	0.221	-7.4	100	-0.16
4	M	Vinyl chloride	0.229	0.237	-3.7	97	-0.12
5	M	Bromomethane	0.159	0.159	-0.3	90	-0.13
6	M	Chloroethane	0.127	0.152	-19.4	102	-0.12
7	M	Trichlorofluoromethane	0.395	0.411	-3.9	98	-0.14
8	M	1,1-Dichloroethene	0.237	0.243	-2.6	97	-0.15
9	M	Methylene chloride	0.237	0.301	-27.1	100	-0.15
10	M	trans-1,2-Dichloroethene	0.270	0.273	-1.1	95	-0.14
11		Hexane	0.000	0.000#	0.0	0#	-0.63#
12	M	1,1-Dichloroethane	0.508	0.511	-0.5	93	-0.14
13	M	2,2-Dichloropropane	0.424	0.434	-2.3	99	-0.14
14	M	cis-1,2-Dichloroethene	0.266	0.258	3.1	87	-0.14
15		2-Butanone	0.000	0.000#	0.0	0#	-11.21#
16	M	Bromochloromethane	0.115	0.098	15.3	73	-0.14
17	M	Chloroform	0.469	0.444	5.4	86	-0.14
18	M	1,1,1-Trichloroethane	0.454	0.455	-0.3	93	-0.14
19	M	Carbon tetrachloride	0.429	0.423	1.6	91	-0.13
20	M	1,1-Dichloropropene	0.424	0.431	-1.7	95	-0.14
21	M	Benzene	0.870	0.874	-0.5	93	-0.14
22	M	1,2-Dichloroethane	0.195	0.175	10.1	78	-0.14
23	M	Trichloroethene	0.361	0.381	-5.5	97	-0.14
24	M	1,2-Dichloropropane	0.302	0.295	2.3	86	-0.14
25	M	Dibromomethane	0.132	0.115	13.4	74	-0.14
26	M	Bromodichloromethane	0.391	0.350	10.4	79	-0.14
27	M	cis-1,3-Dichloropropene	0.352	0.320	9.2	80	-0.14
28	M	Toluene	0.614	0.618	-0.8	90	-0.14
29	M	trans-1,3-Dichloropropene	0.243	0.215	11.5	76	-0.14
30	M	1,1,2-Trichloroethane	0.131	0.112	14.0	73	-0.13
31	M	Tetrachloroethene	0.435	0.413	5.0	88	-0.14
32	M	1,3-Dichloropropane	0.247	0.220	10.9	75	-0.14
33	M	Dibromochloromethane	0.260	0.217	16.5	71	-0.14
34	M	1,2-Dibromoethane	0.190	0.160	16.1	70	-0.14
35	M	Chlorobenzene	0.707	0.676	4.4	86	-0.14
36	M	1,1,1,2-Tetrachloroethane	0.294	0.269	8.3	79	-0.15
37	M	Ethylbenzene	1.261	1.266	-0.4	92	-0.14
38	M	Xylene (para & meta)	0.477	0.485	-1.7	93	-0.14
39	M	Xylene (Ortho)	0.438	0.435	0.6	89	-0.14
40	M	Styrene	0.672	0.651	3.2	85	-0.14
41	M	Bromoform	0.142	0.115	19.0	67	-0.14
42	M	Isopropylbenzene	1.219	1.240	-1.8	93	-0.14

(#) = Out of Range

Evaluate Continuing Calibration Report

086

Data File : D:\HPCHEM\1\DATA\C0542.D
Acq On : 11 Dec 95 10:47 am
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 : Wed Nov 22 09:25:47 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	0.540	0.505	6.4	84	-0.13
44	M	Bromobenzene	0.316	0.285	9.7	78	-0.14
5	M	1,1,2,2-Tetrachloroethane	0.160	0.102	36.2#	52	-0.14
6	M	1,2,3-Trichloropropane	0.164	0.146	11.4	75	-0.14
47	M	n-Propylbenzene	1.664	1.714	-3.0	94	-0.14
8	M	2-Chlorotoluene	0.973	0.918	5.6	88	-0.14
9	M	4-Chlorotoluene	1.084	1.097	-1.3	91	-0.14
50	M	1,3,5-Trimethylbenzene	1.057	1.052	0.5	90	-0.13
51	M	tert-Butylbenzene	1.187	1.193	-0.5	90	-0.14
2	M	1,2,4-Trimethylbenzene	1.056	1.007	4.7	86	-0.14
53	M	sec-Butylbenzene	1.612	1.675	-3.9	94	-0.14
54	M	1,3-Dichlorobenzene	0.625	0.578	7.5	81	-0.14
5	M	4-Isopropyltoluene	1.296	1.340	-3.4	92	-0.14
6	M	1,4-Dichlorobenzene	0.612	0.580	5.3	82	-0.31#
57	S	1,2-Dichlorobenzene-d4	0.338	0.307	9.2	78	-0.14
8	M	1,2-Dichlorobenzene	0.494	0.448	9.3	77	-0.14
9	M	n-Butylbenzene	1.315	1.386	-5.4	94	-0.14
60	M	1,2-Dibromo-3-chloropropane	0.034	0.033	2.4	82	-0.14
61	M	1,2,4-Trichlorobenzene	0.400	0.357	10.8	75	-0.14
2	M	Hexachlorobutadiene	0.348	0.324	6.7	83	-0.15
3	M	Naphthalene	0.387	0.346	10.5	73	-0.15
64	M	1,2,3-Trichlorobenzene	0.292	0.265	9.2	73	-0.17
5		Methyl-tert butyl ether	0.306	0.270	11.9	74	-0.14
6		tert-Butyl Alcohol	0.005	0.004	10.1	74	-0.16

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

Quantitation Report

087

Data File : d:\hpchem\1\data\c0542.d
Acq On : 11 Dec 95 10:47 am
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 13 18:27 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.07	96	1500645	5.00	ug/L		-0.14
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.31	95	757846	4.68	ug/L		93.55%
57) 1,2-Dichlorobenzene-d4	22.11	152	461323	4.54	ug/L		90.82%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.44	85	848531	10.45	ug/L		100
3) Chloromethane	3.83	50	662914	10.74	ug/L		99
4) Vinyl chloride	4.05	62	712165	10.37	ug/L		98
5) Bromomethane	4.75	94	478323	10.03	ug/L		98
6) Chloroethane	4.99	64	455387	11.94	ug/L		98
7) Trichlorofluoromethane	5.57	101	1232697	10.39	ug/L		98
8) 1,1-Dichloroethene	6.67	96	728689	10.26	ug/L		94
9) Methylene chloride	7.67	84	902833	12.71	ug/L		94
10) trans-1,2-Dichloroethene	8.22	96	820182	10.11	ug/L		98
12) 1,1-Dichloroethane	9.01	63	1532269	10.05	ug/L		100
13) 2,2-Dichloropropane	10.07	77	1302742	10.23	ug/L		98
14) cis-1,2-Dichloroethene	10.08	96	773192	9.69	ug/L		98
16) Bromochloromethane	10.50	128	292961	8.47	ug/L	#	90
17) Chloroform	10.64	83	1332024	9.46	ug/L		99
18) 1,1,1-Trichloroethane	10.95	97	1366907	10.03	ug/L		99
19) Carbon tetrachloride	11.25	117	1268298	9.84	ug/L		100
20) 1,1-Dichloropropene	11.24	75	1293409	10.17	ug/L		99
21) Benzene	11.59	78	2624430	10.05	ug/L		100
22) 1,2-Dichloroethane	11.62	62	525558	8.99	ug/L		100
23) Trichloroethene	12.69	95	1142353	10.55	ug/L		97
24) 1,2-Dichloropropane	13.07	63	885017	9.77	ug/L		100
25) Dibromomethane	13.27	93	344084	8.66	ug/L		95
26) Bromodichloromethane	13.53	83	1051714	8.96	ug/L		98
27) cis-1,3-Dichloropropene	14.28	75	960107	9.08	ug/L		99
28) Toluene	14.86	92	1856142	10.08	ug/L		99
29) trans-1,3-Dichloropropene	15.22	75	645837	8.85	ug/L		99
30) 1,1,2-Trichloroethane	15.54	83	337019	8.60	ug/L		96
31) Tetrachloroethene	15.81	166	1240910	9.50	ug/L		96
32) 1,3-Dichloropropane	15.83	76	660977	8.91	ug/L		100
33) Dibromochloromethane	16.23	129	651116	8.35	ug/L		100
34) 1,2-Dibromoethane	16.44	107	479009	8.39	ug/L		98
35) Chlorobenzene	17.28	112	2029343	9.56	ug/L		99
36) 1,1,1,2-Tetrachloroethane	17.42	131	808315	9.17	ug/L		98
37) Ethylbenzene	17.47	91	3799756	10.04	ug/L		99
38) Xylene (para & meta)	17.67	106	2912789	20.35	ug/L		95
39) Xylene (Ortho)	18.38	106	1306799	9.94	ug/L		97
40) Styrene	18.40	104	1952469	9.68	ug/L		99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0542.d
Acq On : 11 Dec 95 10:47 am
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 13 18:27 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.75	173	346518	8.10	ug/L		100
42)	Isopropylbenzene	19.03	105	3722756	10.18	ug/L		96
44)	Bromobenzene	19.59	156	855852	9.03	ug/L		96
45)	1,1,2,2-Tetrachloroethane	19.55	83	306303	6.38	ug/L	m	99
46)	1,2,3-Trichloropropane	19.63	75	436924	8.86	ug/L		97
47)	n-Propylbenzene	19.77	91	5143593	10.30	ug/L		100
48)	2-Chlorotoluene	19.93	91	2755777	9.44	ug/L		100
49)	4-Chlorotoluene	20.13	91	3293376	10.13	ug/L	m	99
50)	1,3,5-Trimethylbenzene	20.09	105	3156710	9.95	ug/L		99
51)	tert-Butylbenzene	20.68	119	3581196	10.05	ug/L		99
52)	1,2,4-Trimethylbenzene	20.77	105	3021987	9.53	ug/L		99
53)	sec-Butylbenzene	21.08	105	5028157	10.39	ug/L		99
54)	1,3-Dichlorobenzene	21.29	146	1733878	9.25	ug/L		98
55)	4-Isopropyltoluene	21.34	119	4021968	10.34	ug/L		100
56)	1,4-Dichlorobenzene	21.29	146	1740089	9.47	ug/L		98
58)	1,2-Dichlorobenzene	22.14	146	1345600	9.07	ug/L	m	0
59)	n-Butylbenzene	22.09	91	4159887	10.54	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.56	75	98978	9.76	ug/L	m	98
61)	1,2,4-Trichlorobenzene	25.11	180	1071800	8.92	ug/L		99
62)	Hexachlorobutadiene	25.43	225	973435	9.33	ug/L		98
63)	Naphthalene	25.57	128	1038934	8.95	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.06	180	795156	9.08	ug/L	m	0
65)	Methyl-tert butyl ether	8.26	73	809287	8.81	ug/L		99
66)	tert-Butyl Alcohol	8.02	59	24307	17.97	ug/L		100

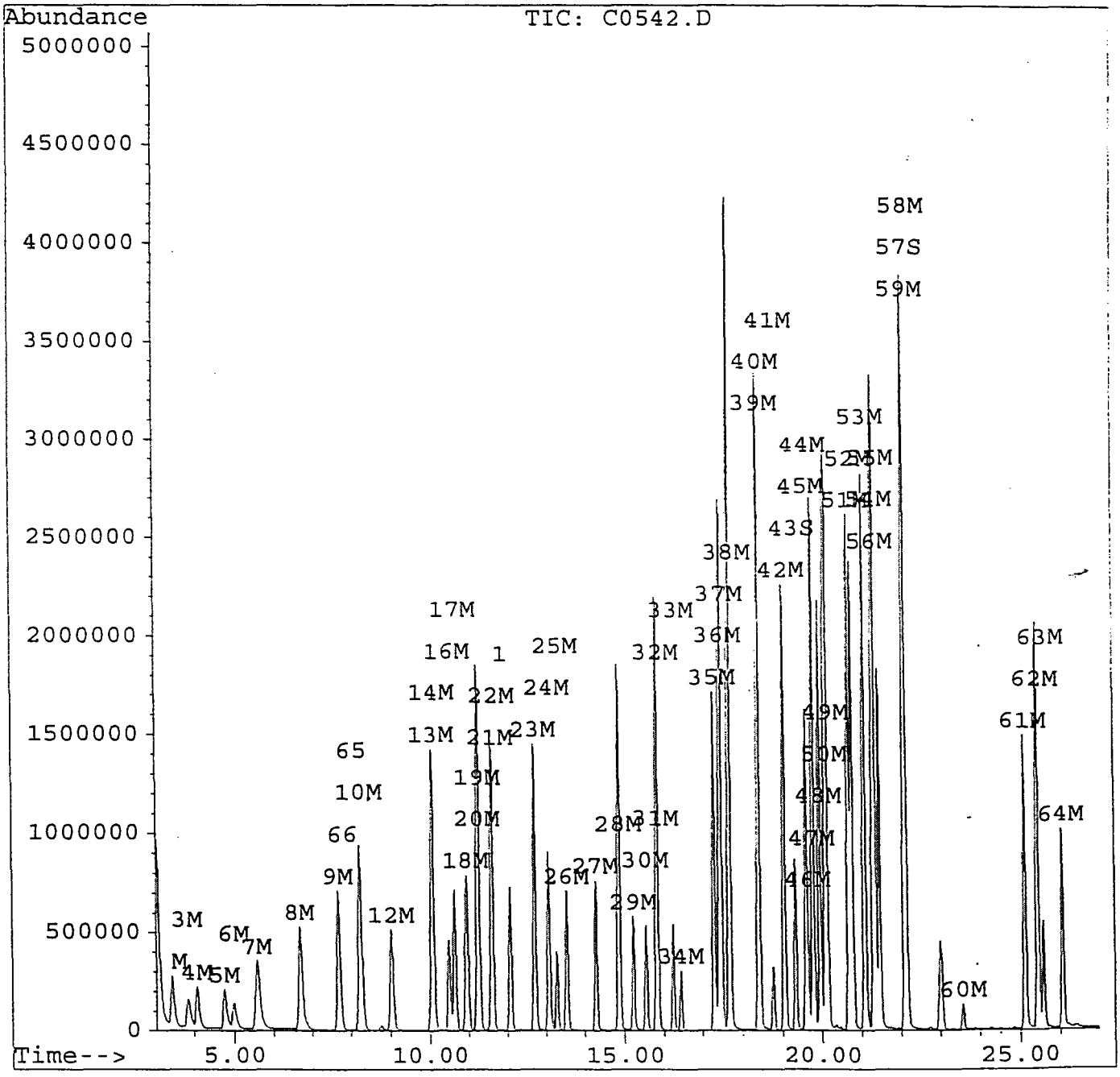
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0542.d
Acq On : 11 Dec 95 10:47 am
Sample : 10 PPB CHK STANDARD
Misc :
Quant Time: Dec 13 18:27 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



Quantitation Report

090

Data File : d:\hpchem\1\data\c0556.d
Acq On : 11 Dec 95 6:53 pm
Sample : 10 PPB QCS
Misc : 25 ML
Quant Time: Dec 13 18:46 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.09	96	1443797	5.00	ug/L	-0.12
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.33	95	701567	4.50	ug/L	90.02%
57) 1,2-Dichlorobenzene-d4	22.13	152	429220	4.39	ug/L	87.83%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	771440	9.87	ug/L	99
3) Chloromethane	3.86	50	543138	9.15	ug/L	96
4) Vinyl chloride	4.07	62	693210	10.50	ug/L	99
5) Bromomethane	4.76	94	476849	10.39	ug/L	96
6) Chloroethane	5.00	64	405836	11.06	ug/L	98
7) Trichlorofluoromethane	5.59	101	1266001	11.10	ug/L	98
8) 1,1-Dichloroethene	6.70	96	764263	11.18	ug/L	95
9) Methylene chloride	7.70	84	881840	12.90	ug/L	96
10) trans-1,2-Dichloroethene	8.25	96	822098	10.53	ug/L	97
12) 1,1-Dichloroethane	9.04	63	1540651	10.50	ug/L	100
13) 2,2-Dichloropropane	10.09	77	1223637	9.99	ug/L	99
14) cis-1,2-Dichloroethene	10.10	96	763593	9.95	ug/L	99
16) Bromochloromethane	10.53	128	290508	8.73	ug/L	94
17) Chloroform	10.67	83	1318906	9.74	ug/L	99
18) 1,1,1-Trichloroethane	10.98	97	1360705	10.37	ug/L	100
19) Carbon tetrachloride	11.28	117	1284894	10.36	ug/L	98
20) 1,1-Dichloropropene	11.27	75	1350597	11.04	ug/L	100
21) Benzene	11.62	78	2461352	9.80	ug/L	99
22) 1,2-Dichloroethane	11.65	62	519639	9.23	ug/L	99
23) Trichloroethene	12.72	95	1124070	10.79	ug/L	99
24) 1,2-Dichloropropane	13.09	63	861046	9.88	ug/L	99
25) Dibromomethane	13.30	93	330601	8.65	ug/L	95
26) Bromodichloromethane	13.56	83	1054422	9.34	ug/L	100
27) cis-1,3-Dichloropropene	14.31	75	1006917	9.90	ug/L	98
28) Toluene	14.89	92	1723936	9.73	ug/L	99
29) trans-1,3-Dichloropropene	15.24	75	639925	9.11	ug/L	99
30) 1,1,2-Trichloroethane	15.56	83	330800	8.77	ug/L	98
31) Tetrachloroethene	15.84	166	1214516	9.66	ug/L	97
32) 1,3-Dichloropropane	15.85	76	642029	8.99	ug/L	99
33) Dibromochloromethane	16.26	129	622839	8.30	ug/L	99
34) 1,2-Dibromoethane	16.45	107	462246	8.41	ug/L	97
35) Chlorobenzene	17.31	112	1908639	9.35	ug/L	99
36) 1,1,1,2-Tetrachloroethane	17.44	131	779961	9.19	ug/L	100
37) Ethylbenzene	17.49	91	3527082	9.69	ug/L	100
38) Xylene (para & meta)	17.69	106	2744145	19.92	ug/L	97
39) Xylene (Ortho)	18.39	106	1239813	9.81	ug/L	97
40) Styrene	18.41	104	1826666	9.41	ug/L	99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0556.d
Acq On : 11 Dec 95 6:53 pm
Sample : 10 PPB QCS
Misc : 25 ML
Quant Time: Dec 13 18:46 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.76	173	330898	8.04	ug/L	m	99
42)	Isopropylbenzene	19.05	105	3777734	10.74	ug/L	m	0
44)	Bromobenzene	19.61	156	782530	8.58	ug/L		96
45)	1,1,2,2-Tetrachloroethane	19.58	83	280776	6.08	ug/L	m	99
46)	1,2,3-Trichloropropane	19.65	75	408492	8.61	ug/L	#	81
47)	n-Propylbenzene	19.78	91	4874012	10.15	ug/L		100
48)	2-Chlorotoluene	19.96	91	2638456	9.40	ug/L		99
49)	4-Chlorotoluene	20.15	91	3083182	9.85	ug/L	m	98
50)	1,3,5-Trimethylbenzene	20.10	105	2865962	9.39	ug/L		98
51)	tert-Butylbenzene	20.70	119	3398155	9.91	ug/L		98
52)	1,2,4-Trimethylbenzene	20.78	105	2731037	8.95	ug/L		99
53)	sec-Butylbenzene	21.09	105	4789365	10.29	ug/L		99
54)	1,3-Dichlorobenzene	21.32	146	1622710	8.99	ug/L		99
55)	4-Isopropyltoluene	21.35	119	3748601	10.02	ug/L		99
56)	1,4-Dichlorobenzene	21.32	146	1627048	9.20	ug/L		99
58)	1,2-Dichlorobenzene	22.16	146	1227028	8.60	ug/L		97
59)	n-Butylbenzene	22.10	91	3801263	10.01	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.58	75	102342	10.49	ug/L	m	97
61)	1,2,4-Trichlorobenzene	25.13	180	959046	8.30	ug/L		98
62)	Hexachlorobutadiene	25.45	225	967987	9.64	ug/L		99
63)	Naphthalene	25.59	128	914895	8.19	ug/L		100

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

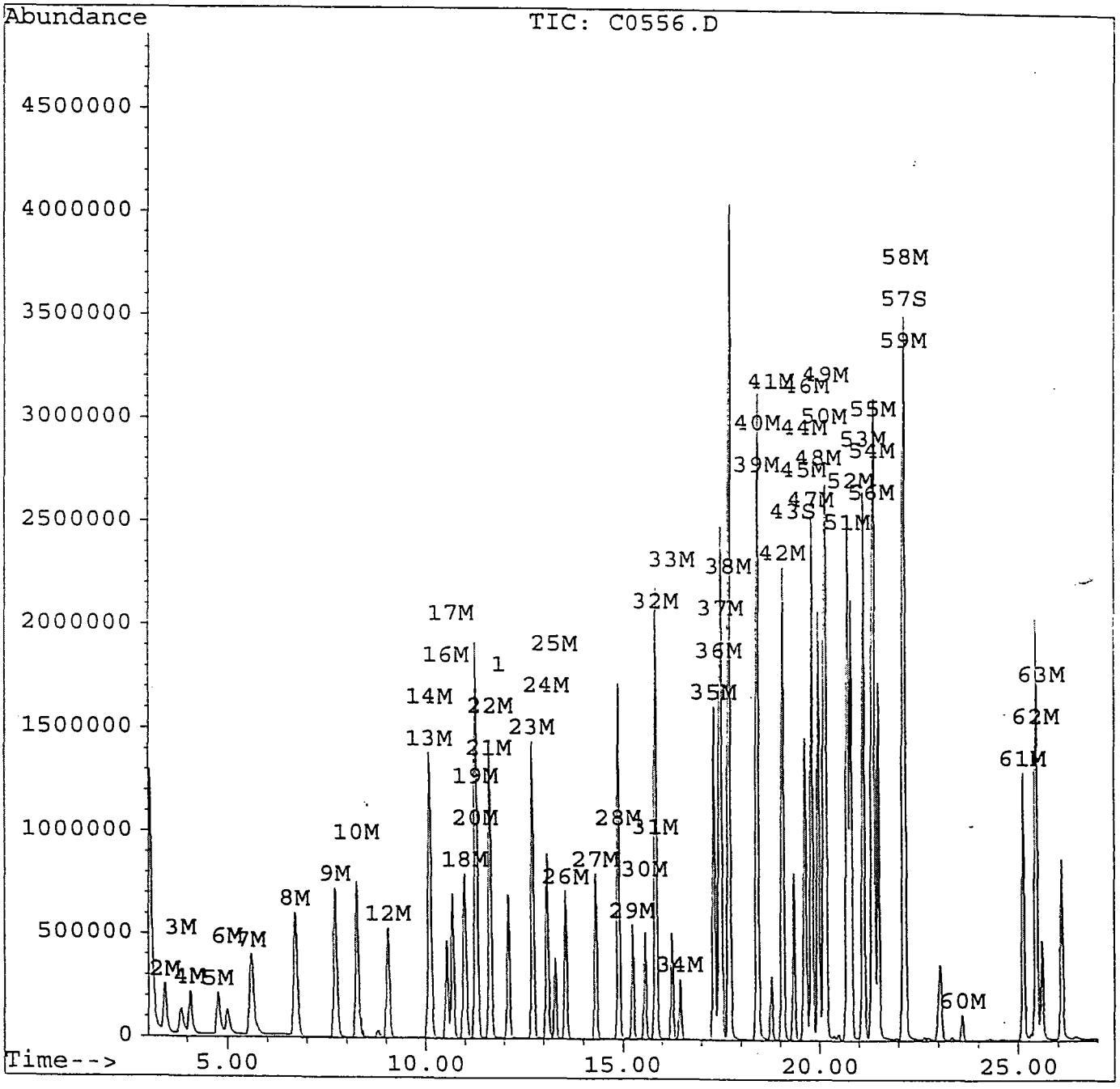
Quantitation Report

092

Data File : d:\hpchem\1\data\c0556.d
Acq On : 11 Dec 95 6:53 pm
Sample : 10 PPB QCS
Misc : 25 ML
Quant Time: Dec 13 18:46 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



Quantitation Report

093

Data File : d:\hpchem\1\data\c0557.d
Acq On : 11 Dec 95 7:27 pm
Sample : 1 PPB STANDARD
Misc : 25 ML
Quant Time: Dec 13 18:47 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.10	96	1401659	5.00	ug/L		-0.11
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.33	95	706719	4.67	ug/L		93.40%
57) 1,2-Dichlorobenzene-d4	22.13	152	426352	4.49	ug/L		89.87%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.44	85	66683	0.88	ug/L		91
3) Chloromethane	3.86	50	61839	1.07	ug/L		94
4) Vinyl chloride	4.07	62	68301	1.07	ug/L		99
5) Bromomethane	4.78	94	52054	1.17	ug/L		93
6) Chloroethane	5.01	64	45582	1.28	ug/L		96
7) Trichlorofluoromethane	5.60	101	120716	1.09	ug/L		98
8) 1,1-Dichloroethene	6.69	96	72878	1.10	ug/L		99
9) Methylene chloride	7.70	84	404904	6.10	ug/L		97
10) trans-1,2-Dichloroethene	8.24	96	82056	1.08	ug/L		93
12) 1,1-Dichloroethane	9.03	63	157856	1.11	ug/L		93
13) 2,2-Dichloropropane	10.09	77	126062	1.06	ug/L		97
14) cis-1,2-Dichloroethene	10.11	96	81032	1.09	ug/L		89
16) Bromochloromethane	10.53	128	30652	0.95	ug/L	#	86
17) Chloroform	10.67	83	142537	1.08	ug/L		100
18) 1,1,1-Trichloroethane	10.98	97	140153	1.10	ug/L		97
19) Carbon tetrachloride	11.27	117	126719	1.05	ug/L		99
20) 1,1-Dichloropropene	11.27	75	128512	1.08	ug/L		96
21) Benzene	11.62	78	274194	1.12	ug/L		99
22) 1,2-Dichloroethane	11.64	62	53831	0.99	ug/L		98
23) Trichloroethene	12.72	95	119393	1.18	ug/L		95
24) 1,2-Dichloropropane	13.10	63	91801	1.08	ug/L		99
25) Dibromomethane	13.30	93	36853	0.99	ug/L		87
26) Bromodichloromethane	13.56	83	110196	1.01	ug/L		100
27) cis-1,3-Dichloropropene	14.31	75	99413	1.01	ug/L		99
28) Toluene	14.89	92	211984	1.23	ug/L		98
29) trans-1,3-Dichloropropene	15.25	75	67294	0.99	ug/L		100
30) 1,1,2-Trichloroethane	15.56	83	38062	1.04	ug/L		93
31) Tetrachloroethene	15.84	166	127295	1.04	ug/L		97
32) 1,3-Dichloropropane	15.85	76	72660	1.05	ug/L		100
33) Dibromochloromethane	16.26	129	67869	0.93	ug/L		99
34) 1,2-Dibromoethane	16.46	107	50881	0.95	ug/L		95
35) Chlorobenzene	17.31	112	218997	1.10	ug/L		99
36) 1,1,1,2-Tetrachloroethane	17.45	131	85954	1.04	ug/L		97
37) Ethylbenzene	17.49	91	408972	1.16	ug/L		99
38) Xylene (para & meta)	17.69	106	320064	2.39	ug/L		98
39) Xylene (Ortho)	18.41	106	144215	1.17	ug/L		92
40) Styrene	18.42	104	206260	1.09	ug/L		99

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

Quantitation Report

Data File : d:\hpchem\1\data\c0557.d
Acq On : 11 Dec 95 7:27 pm
Sample : 1 PPB STANDARD
Misc : 25 ML
Quant Time: Dec 13 18:47 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
41)	Bromoform	18.77	173	34768	0.87 ug/L	92
42)	Isopropylbenzene	19.05	105	398965	1.17 ug/L	96
44)	Bromobenzene	19.62	156	93824	1.06 ug/L	96
45)	1,1,2,2-Tetrachloroethane	19.58	83	30728	0.69 ug/L m	93
46)	1,2,3-Trichloropropane	19.65	75	48819	1.06 ug/L	88
47)	n-Propylbenzene	19.79	91	547133	1.17 ug/L	99
48)	2-Chlorotoluene	19.96	91	305058	1.12 ug/L	98
49)	4-Chlorotoluene	20.15	91	369093	1.22 ug/L m	97
50)	1,3,5-Trimethylbenzene	20.11	105	343641	1.16 ug/L	97
51)	tert-Butylbenzene	20.69	119	399565	1.20 ug/L	99
52)	1,2,4-Trimethylbenzene	20.79	105	351087	1.19 ug/L	98
53)	sec-Butylbenzene	21.10	105	535678	1.19 ug/L	99
54)	1,3-Dichlorobenzene	21.31	146	196275	1.12 ug/L	98
55)	4-Isopropyltoluene	21.35	119	421045	1.16 ug/L	99
56)	1,4-Dichlorobenzene	21.48	146	188138	1.10 ug/L	98
58)	1,2-Dichlorobenzene	22.16	146	147526	1.06 ug/L	93
59)	n-Butylbenzene	22.11	91	444223	1.20 ug/L	96
60)	1,2-Dibromo-3-chloropropan	23.58	75	9294	0.98 ug/L	90
61)	1,2,4-Trichlorobenzene	25.13	180	117973	1.05 ug/L	98
62)	Hexachlorobutadiene	25.45	225	98554	1.01 ug/L	98
63)	Naphthalene	25.59	128	125062	1.15 ug/L	100
64)	1,2,3-Trichlorobenzene	26.08	180	87320	1.07 ug/L	92
65)	Methyl-tert butyl ether	8.28	73	91024	1.06 ug/L	96
66)	tert-Butyl Alcohol	8.23	59	1467	1.16 ug/L	100

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

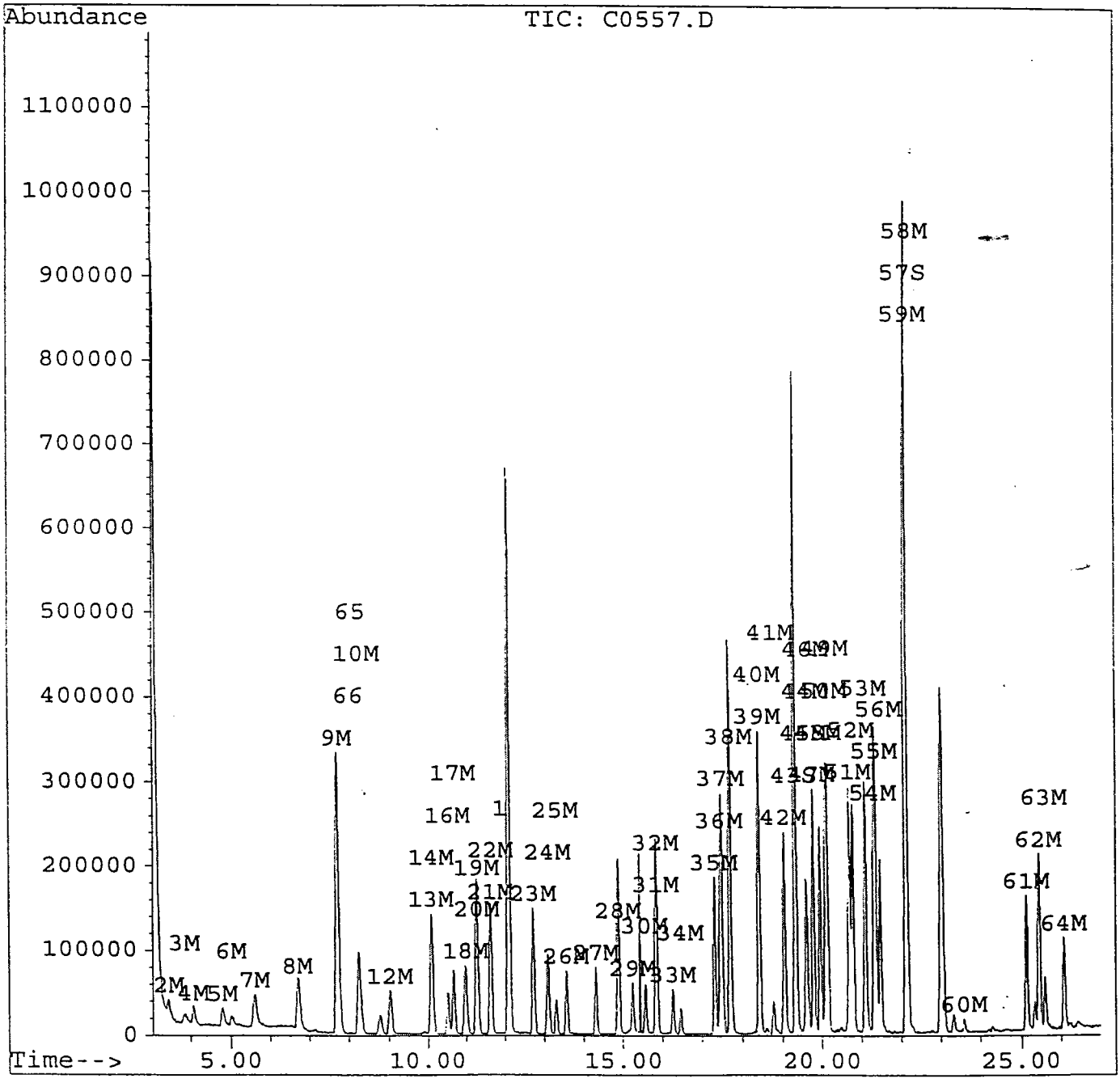
Quantitation Report

095

Data File : d:\hpchem\1\data\c0557.d
Acq On : 11 Dec 95 7:27 pm
Sample : 1 PPB STANDARD
Misc : 25 ML
Quant Time: Dec 13 18:47 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

096

Lab Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID (Standard): C0426.D Date Analyzed: 12/2/95

Instrument ID: 5972-INSTRUMENT 1 Time Analyzed: 1510

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	1705729	12.16				
	UPPER LIMIT	3411458	12.66				
	LOWER LIMIT	852865	11.66				
	SAMPLE NO.						
01	10 QCS	1696795	12.17				
02	1 STND	1696953	12.18				
03	VBLK01	1681347	12.18				
04	9554060V	1653394	12.18				
05	9554061V	1699146	12.18				
06	9554062V	1709216	12.18				
07	9554101V	1741817	12.18				
08	9554102V	1664338	12.18				
09	9554063V	1656749	12.18				
10	9554060MS	1703293	12.18				
11	9554060MSD	1698292	12.18				
12							
13							
14							
15							
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

Lab Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID (Standard): C0542.D Date Analyzed: 12/11/95

Instrument ID: 5972-INSTRUMENT Time Analyzed: 1047

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	1500645	12.07				
	UPPER LIMIT	1950838	12.57				
	LOWER LIMIT	1050451	11.57				
	SAMPLE NO.						
01	VBLK01	1511323	12.07				
02	9556244V	1484179	12.07				
03	9554556V	1444161	12.07				
04	9554783V	1453845	12.09				
05	9554784V	1440704	12.08				
06	9554782V	1335577	12.08				
07	9554781V	1422858	12.08				
08	9554785V	1403219	12.10				
09	9554786V	1385810	12.10				
10	9556244R	1421535	12.10				
11	9557565V	1452647	12.09				
12	9557565R	1339506	12.09				
13	9557078V	1252908	12.08				
14	10 QCS	1443797	12.09				
15	1 STND	1401659	12.10				
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# 098

Trip Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	3.0	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

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL# 099

Trip Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: TB

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# 100

Trip Blank

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

Project No. FT. MONMOUTH NJ BLDG#: 1122 NJDEP MW#: TB Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554783V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0546.D

Level: (low/med) LOW Date Received: 11/27/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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-	10.62	3	J
2.	Unknown Hydrocarbon	26.22	1	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\c0546.d
Acq On : 11 Dec 95 1:07 pm
Sample : 9554783 BLDG 1122 TB
Misc : 25 ML
Quant Time: Dec 13 18:30 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.09	96	1453845	5.00	ug/L	-0.12
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	745172	4.75	ug/L	94.95%
57) 1,2-Dichlorobenzene-d4	22.12	152	459111	4.66	ug/L	93.30%
Target Compounds						Qvalue
9) Methylene chloride	7.69	84	209777	3.05	ug/L	93

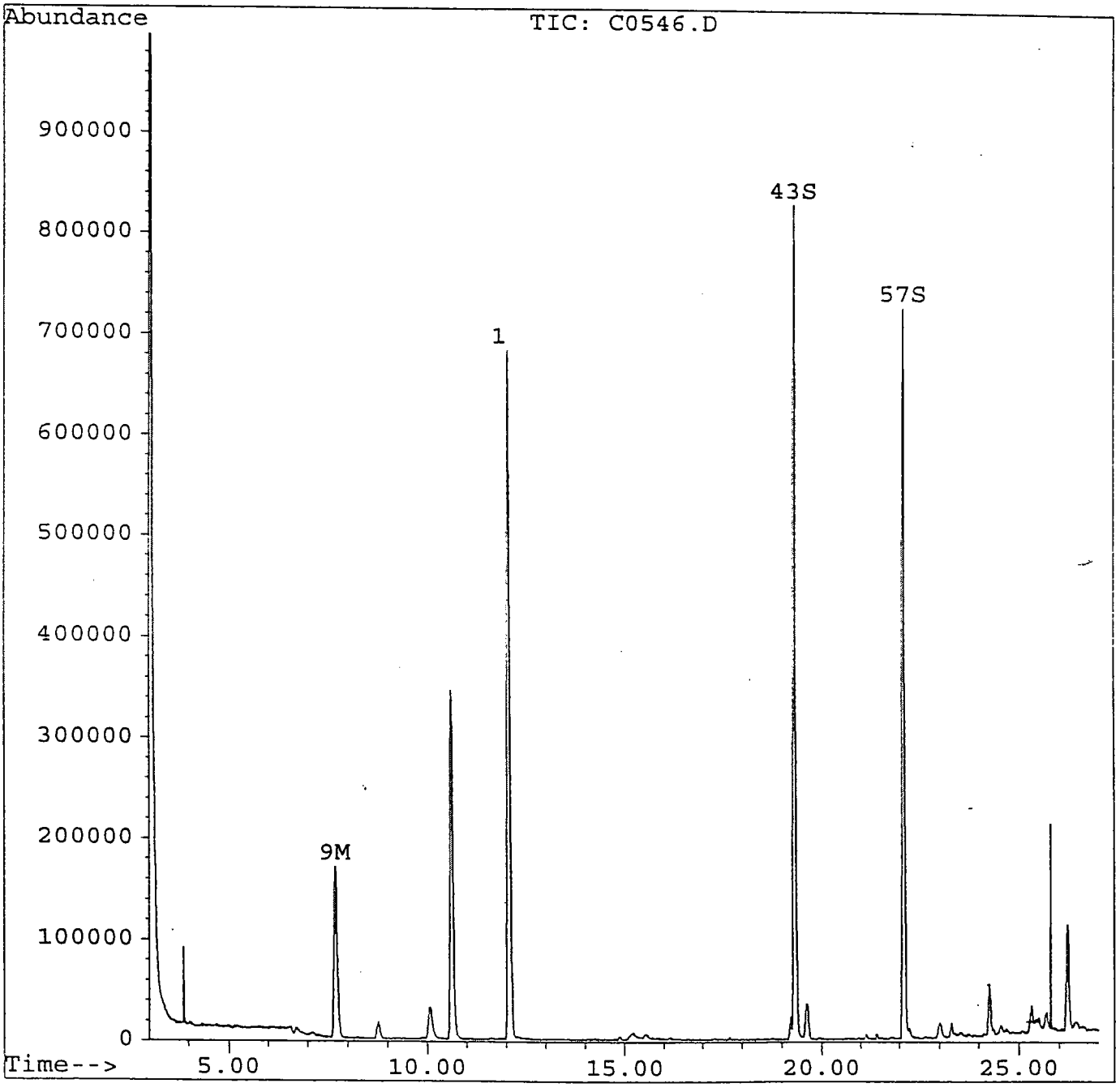
(#) = qualifier out of range (m) = manual integration

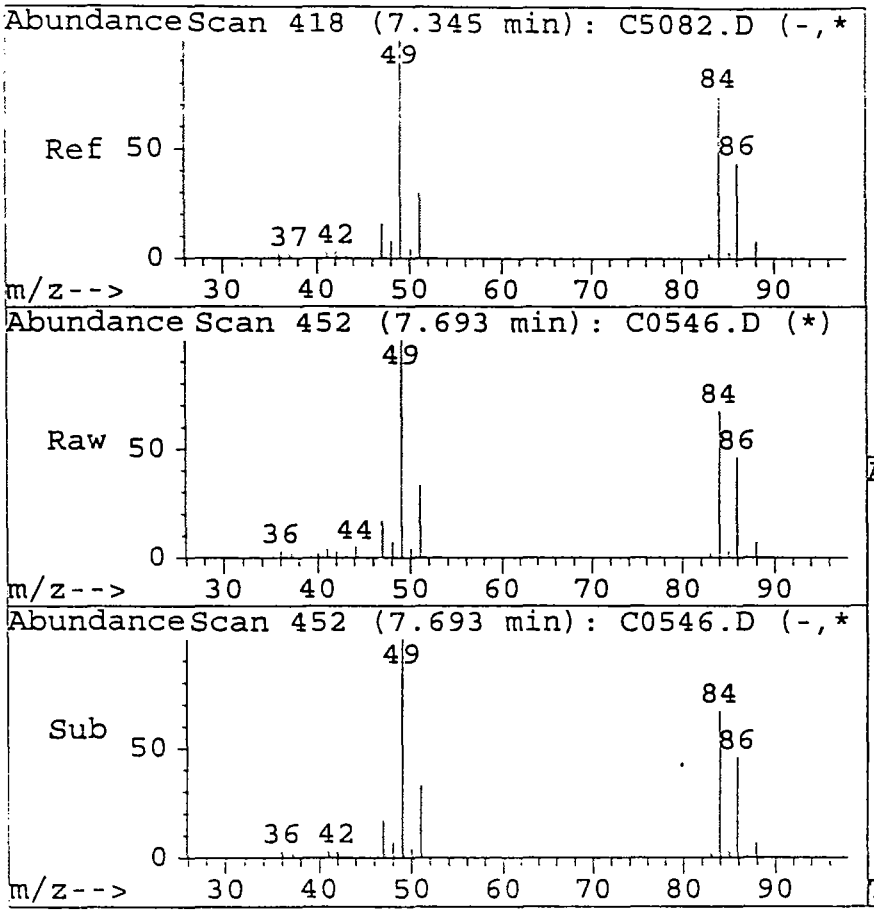
Quantitation Report

Data File : d:\hpchem\1\data\c0546.d
Acq On : 11 Dec 95 1:07 pm
Sample : 9554783 BLDG 1122 TB
Misc : 25 ML
Quant Time: Dec 13 18:30 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

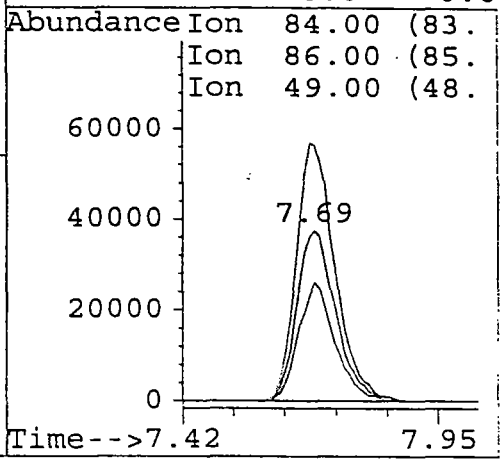




#9
Methylene chloride
Concen: 3.05 ug/L
RT: 7.69 min Scan# 452
Delta R.T. -0.13 min
Lab File: c0546.d
Acq: 11 Dec 95 1:07 pm

Tgt Ion:84 Resp: 209777

Ion	Ratio	Lower	Upper
84	100		
86	69.5	45.2	85.2
49	150.0	121.1	161.1
0	0.0	0.0	0.0



Library Search Compound Report

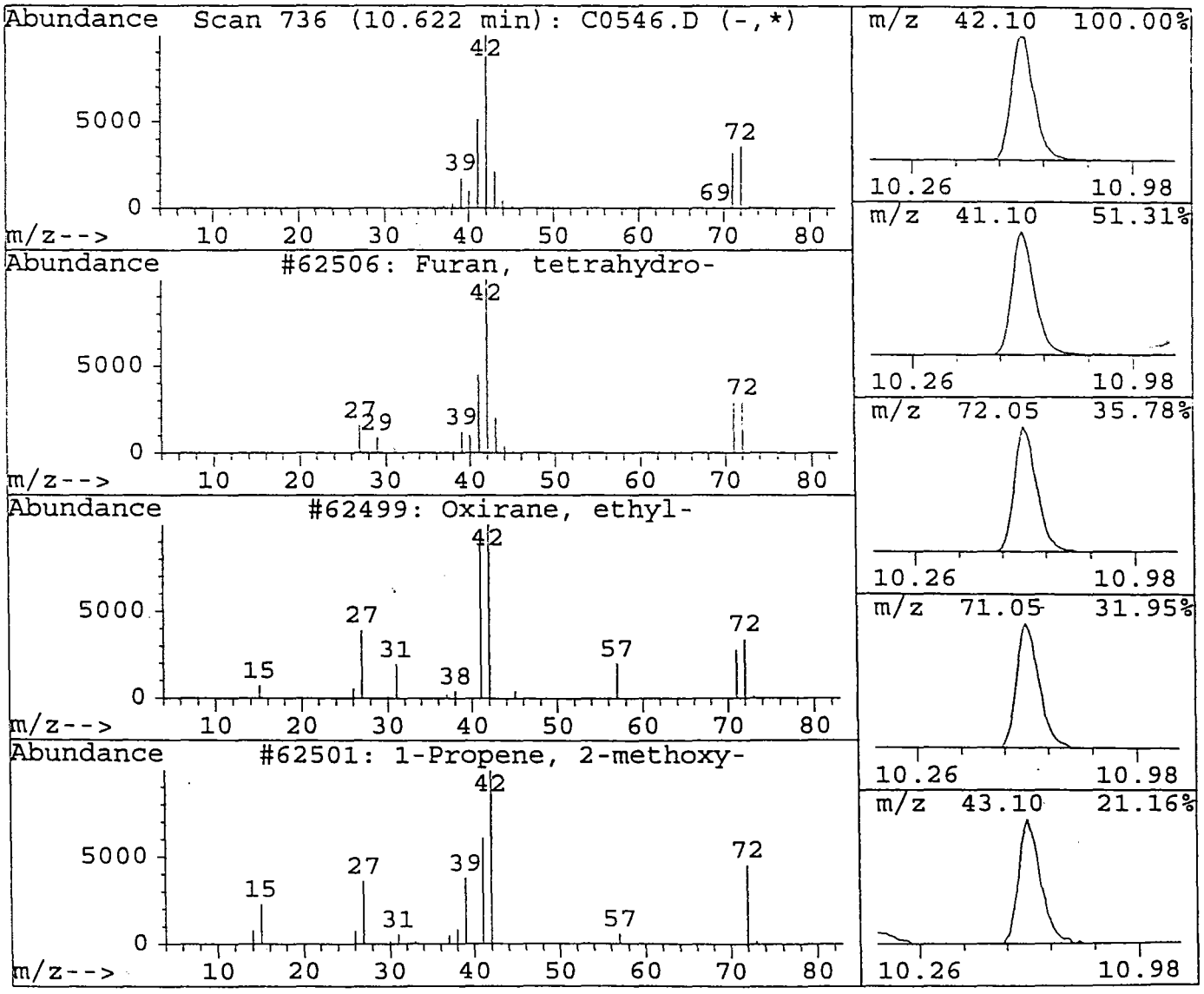
Data File : d:\hpchem\1\data\c0546.d
Acq On : 11 Dec 95 1:07 pm
Sample : 9554783 BLDG 1122 TB
Misc : 25 ML

Vial: 6
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.
10.62	2.83 ug/L	1746172	Fluorobenzene	12.09

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	Azetidine, 1-methyl-	246	004923-79-9	4
5	Oxirane, 2,2-dimethyl-	62511	000558-30-5	43



Library Search Compound Report

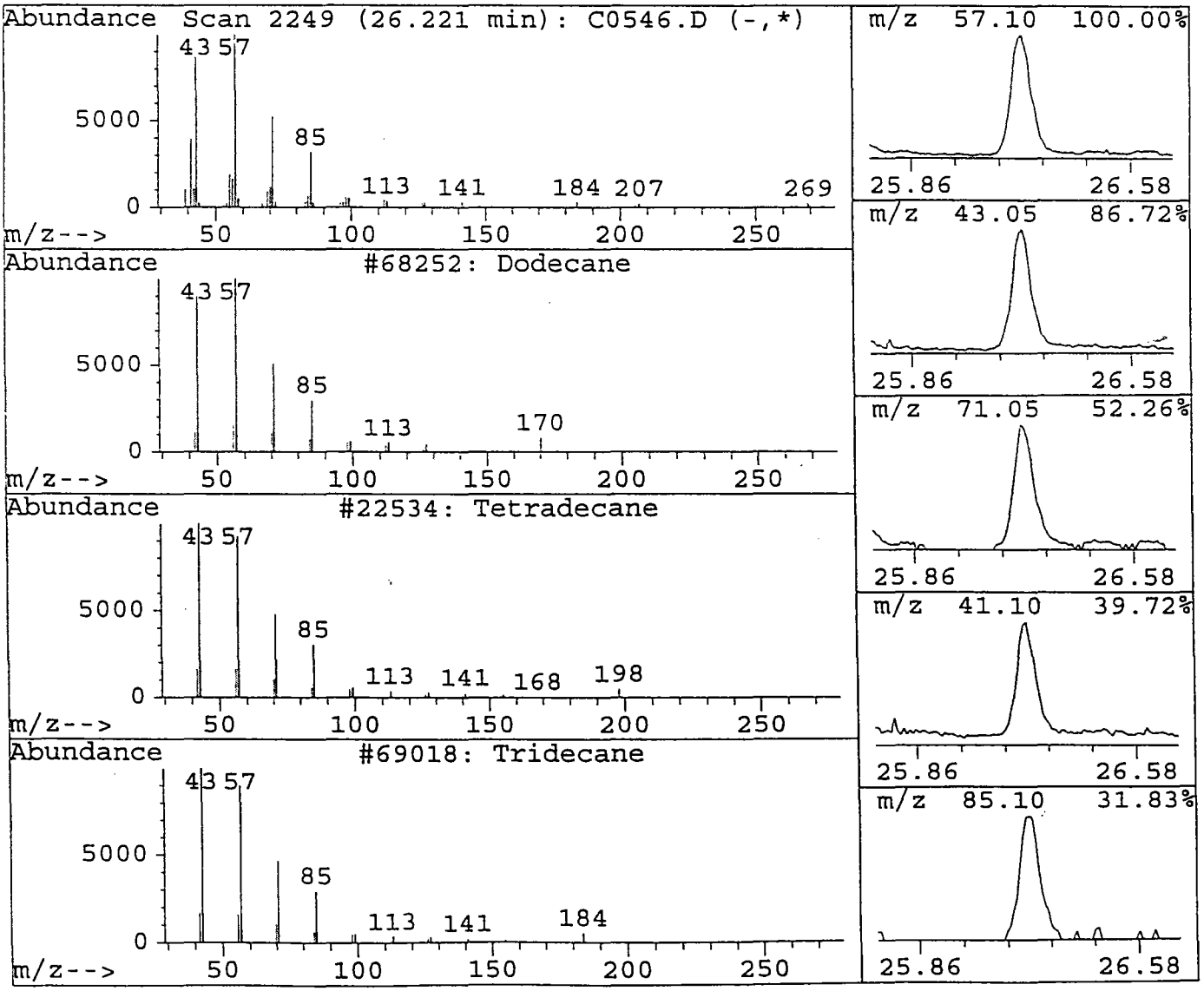
Data File : d:\hpchem\1\data\c0546.d
Acq On : 11 Dec 95 1:07 pm
Sample : 9554783 BLDG 1122 TB
Misc : 25 ML

Vial: 6
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.
26.22	0.79 ug/L	484273	Fluorobenzene	12.09

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane	68252	000112-40-3	90
2	Tetradecane	22534	000629-59-4	86
3	Tridecane	69018	000629-50-5	86
4	Eicosane	72323	000112-95-8	86
5	Pentadecane	70274	000629-62-9	86



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL#

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	3.1	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	.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# 107

Field Blank

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

Project No.: FT. MONMOUTH NJ Bldg#: 1122 NJDEP MW#: FB

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# 166

Field Blank

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

Project No. FT. MONMOUTH NJ BLDG#: 1122 NJDEP MW#: FB Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554784V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0547.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Column Bleed	10.06	1	J
2.	Unknown	10.62	3	J
3.	Column Bleed	23.02	1	J
4.	Unknown Hydrocarbon	26.22	1	J
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Quantitation Report

Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML
Quant Time: Dec 13 18:31 1995

Vial: 7
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.08	96	1440704	5.00	ug/L	-0.13
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.32	95	738006	4.74	ug/L	94.89%
57) 1,2-Dichlorobenzene-d4	22.12	152	461466	4.73	ug/L	94.63%
Target Compounds						Qvalue
9) Methylene chloride	7.69	84	214310	3.14	ug/L	95

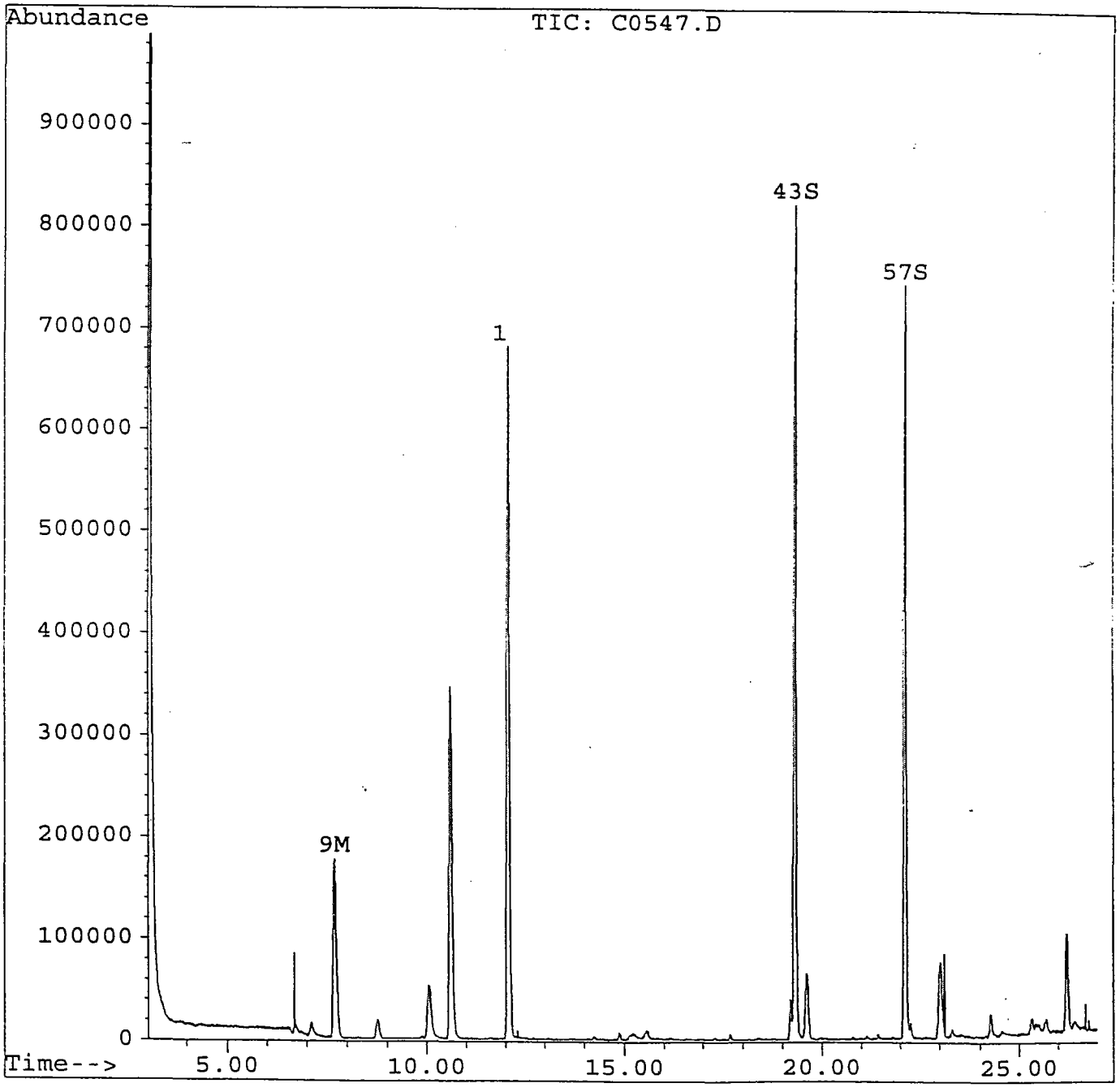
(#) = qualifier out of range (m) = manual integration

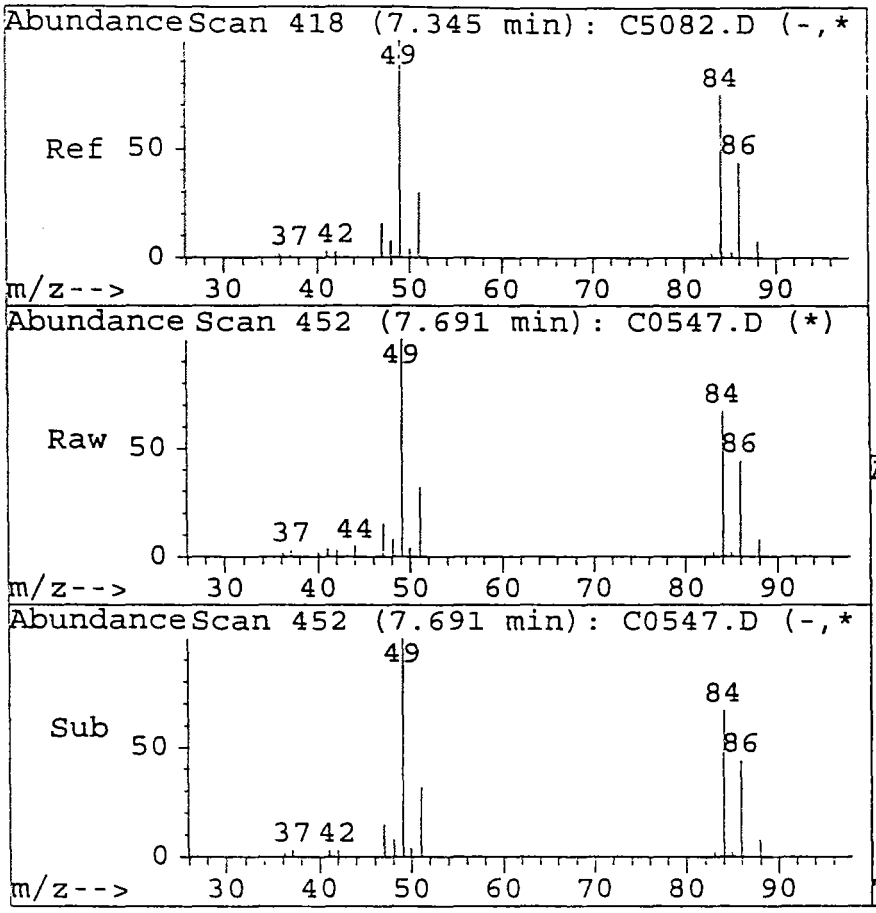
Quantitation Report

Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML
Quant Time: Dec 13 18:31 1995

Vial: 7
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

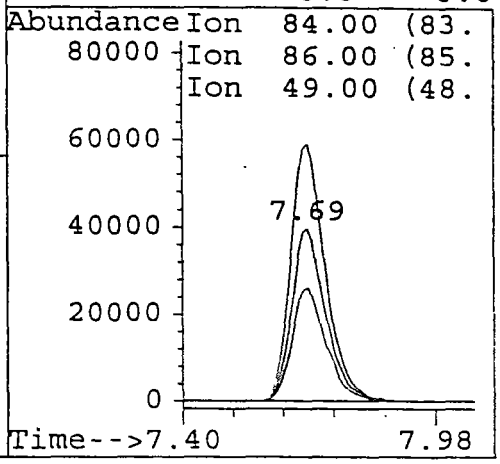




#9
Methylene chloride
Concen: 3.14 ug/L
RT: 7.69 min Scan# 452
Delta R.T. -0.14 min
Lab File: c0547.d
Acq: 11 Dec 95 1:42 pm

Tgt Ion:84 Resp: 214310

Ion	Ratio	Lower	Upper
84	100		
86	66.0	45.2	85.2
49	149.2	121.1	161.1
0	0.0	0.0	0.0



Library Search Compound Report

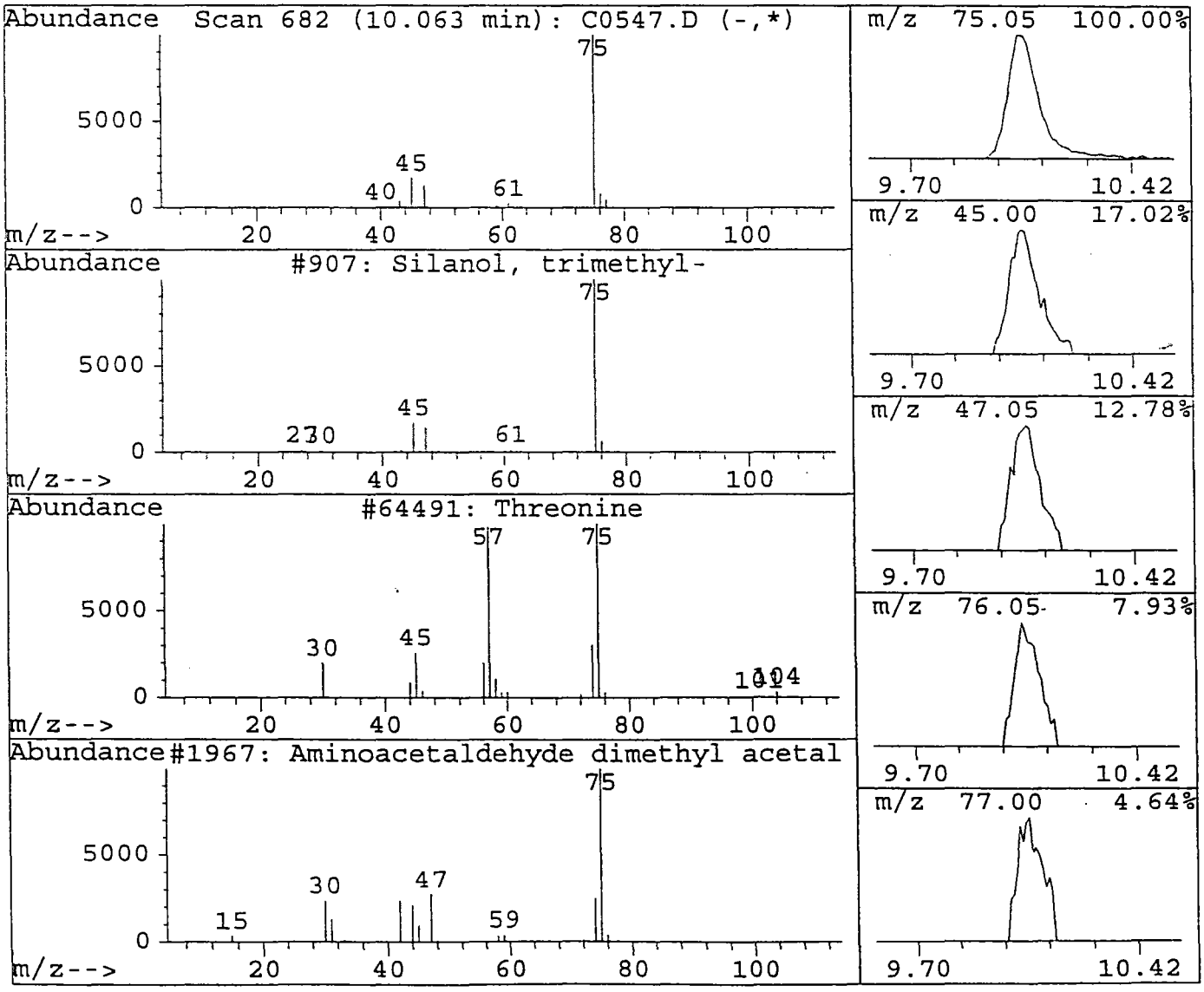
Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML

Vial: 7
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.
10.06	0.53 ug/L	323580	Fluorobenzene	12.08

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Silanol, trimethyl-	907	001066-40-6	74
2	Threonine	64491	000072-19-5	1
3	Aminoacetaldehyde dimethyl acetal	1967	022483-09-6	1
4	Penicillamine	9413	000052-67-5	1
5	Ethanethioamide	347	000062-55-5	3



Library Search Compound Report

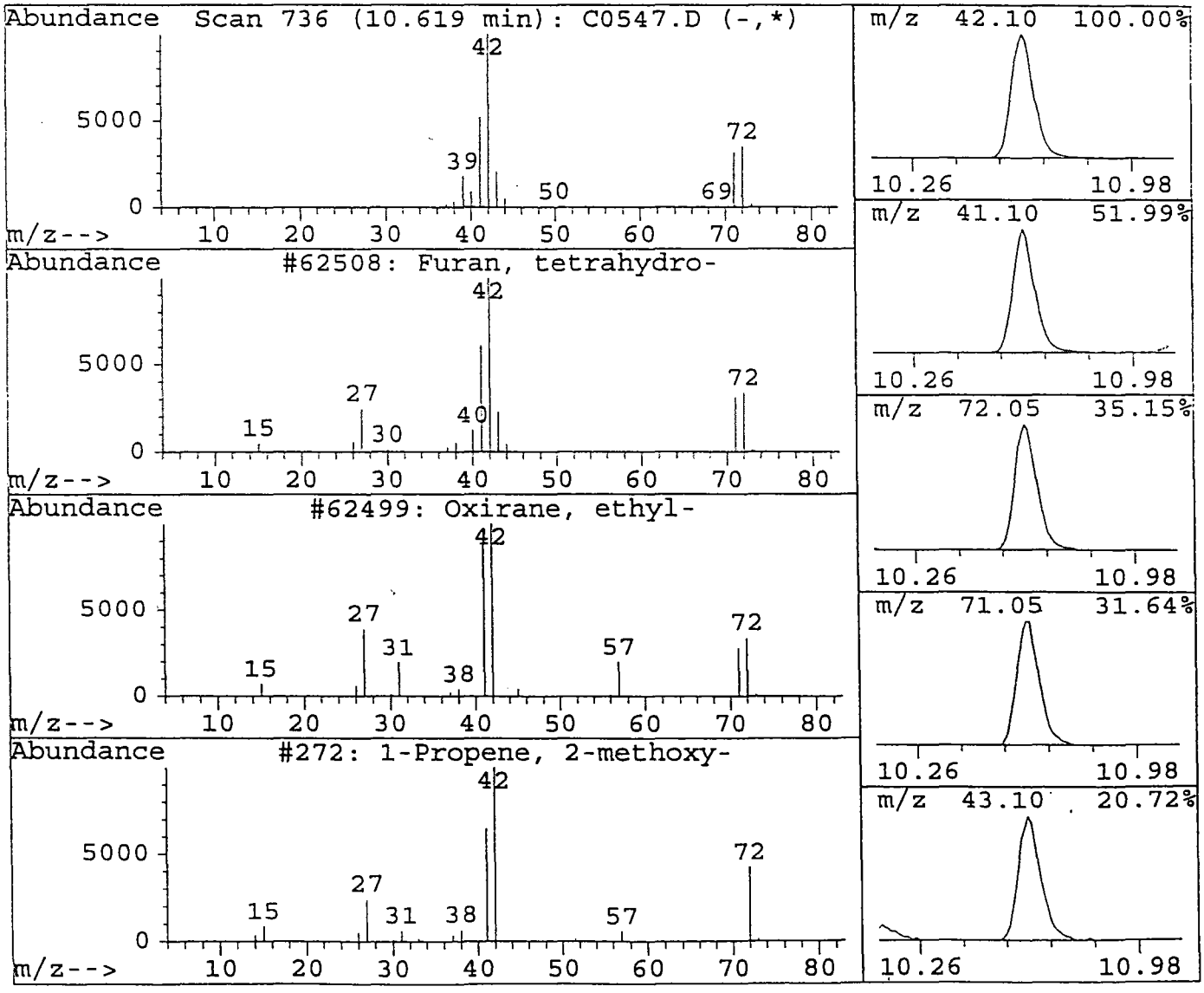
Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML

Vial: 7
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.
10.62	2.81 ug/L	1705429	Fluorobenzene	12.08

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Furan, tetrahydro-	62508	000109-99-9	56
2	Oxirane, ethyl-	62499	000106-88-7	39
3	1-Propene, 2-methoxy-	272	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

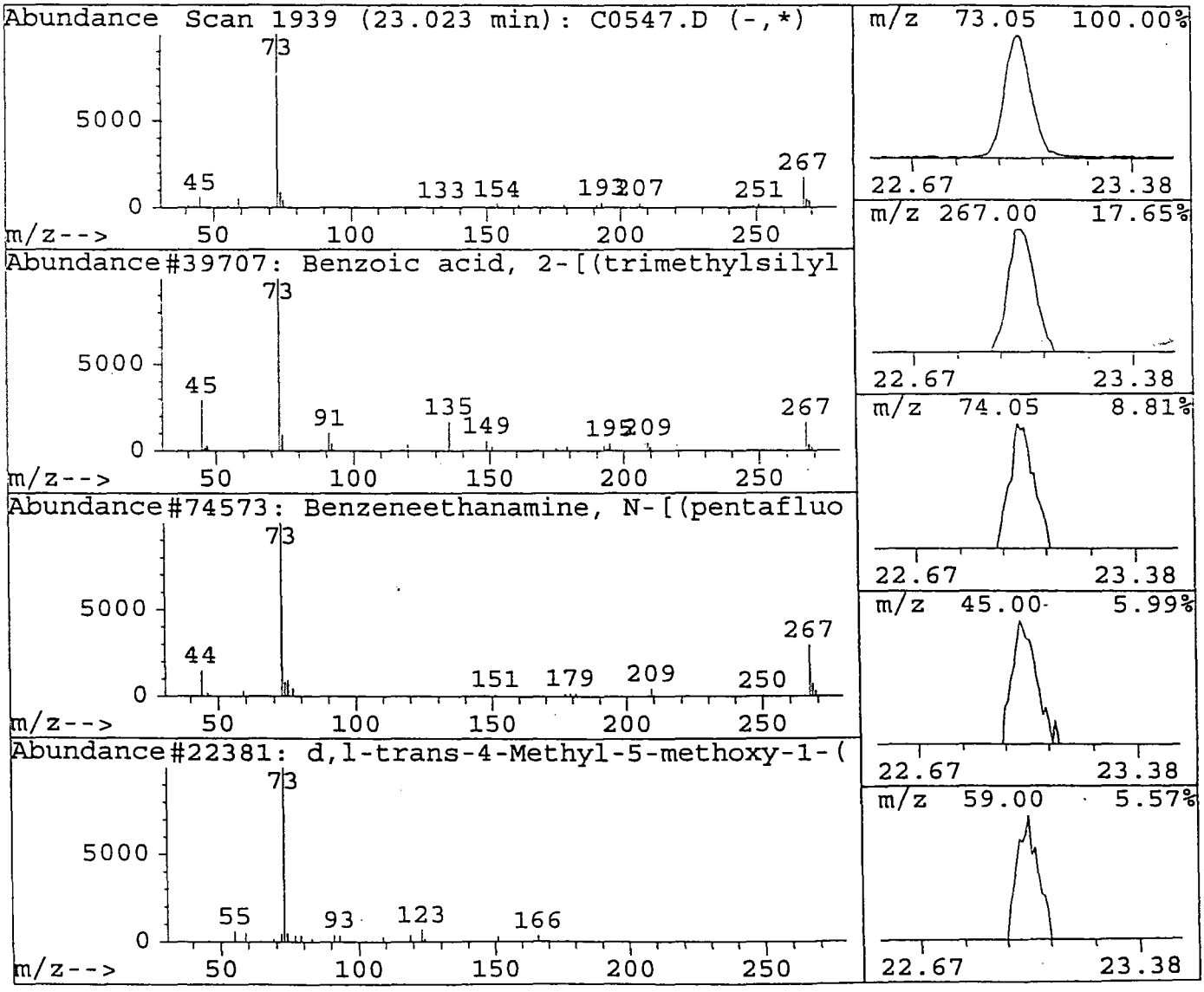
Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML

Vial: 7
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.
23.02	0.72 ug/L	435246	Fluorobenzene	12.08

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	4
3	d,l-trans-4-Methyl-5-methoxy-1-(1-m	22381	000000-00-0	2
4	Butane, 2,3-dimethoxy-2-methyl-	5815	074421-00-4	2
5	Octanal, 7-methoxy-3,7-dimethyl-	19455	003613-30-7	2



Library Search Compound Report

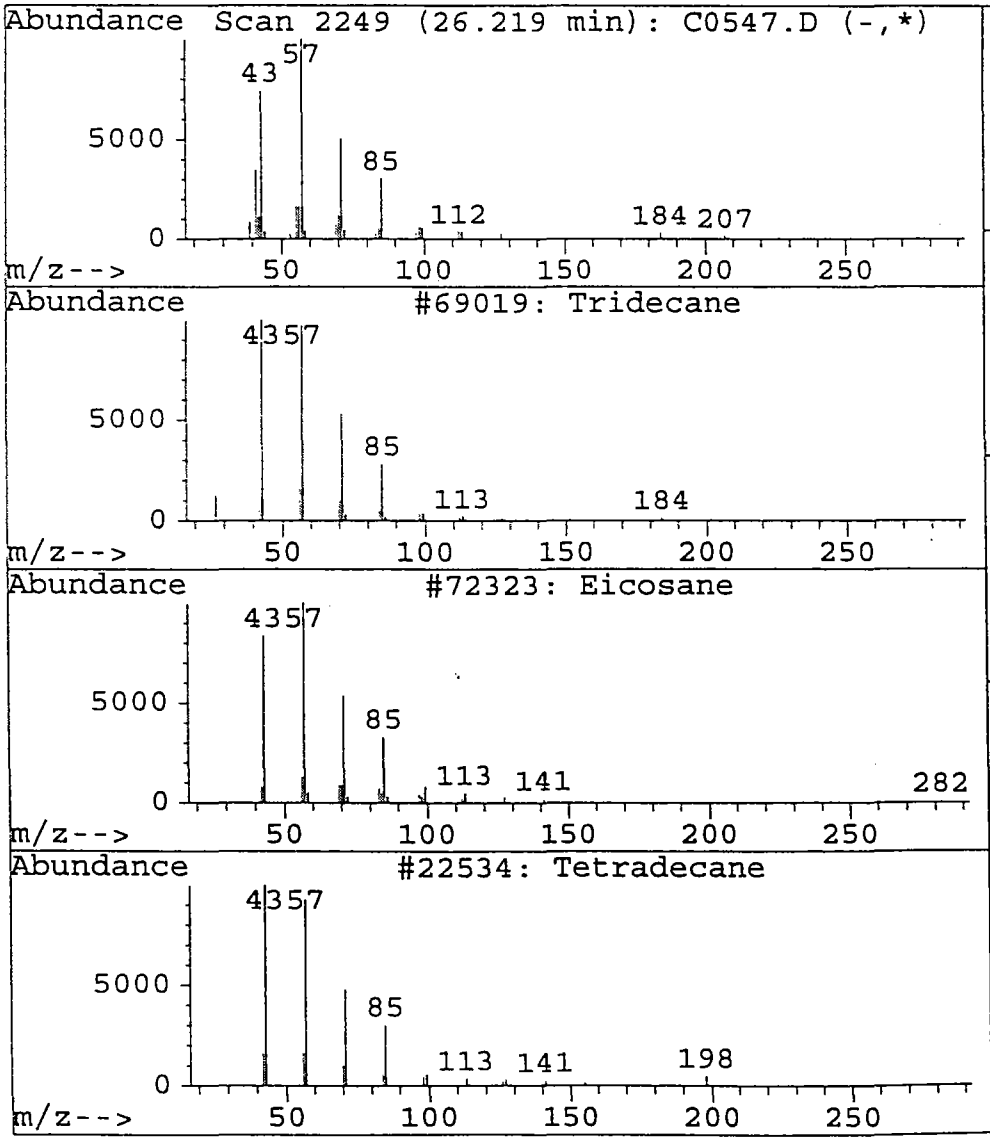
Data File : d:\hpchem\1\data\c0547.d
Acq On : 11 Dec 95 1:42 pm
Sample : 9554784 BLDG 1122 FB
Misc : 25 ML

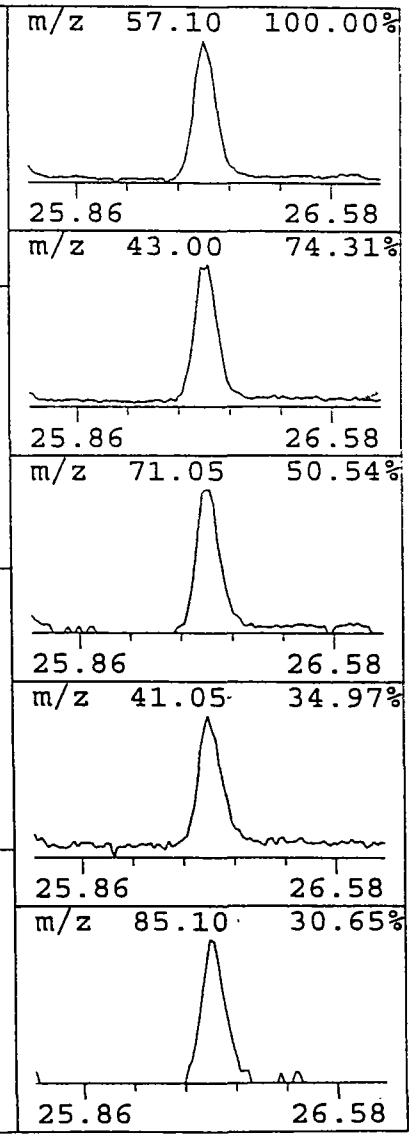
Vial: 7
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

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.
26.22	0.71 ug/L	432639	Fluorobenzene	12.08

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane	69019	000629-50-5	94
2	Eicosane	72323	000112-95-8	80
3	Tetradecane	22534	000629-59-4	64
4	Hexadecane	70789	000544-76-3	86
5	Pentadecane	70274	000629-62-9	72





1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL#

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: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	2.3	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	1.3	
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# 117

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: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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# 116

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

Project No. FT. MONMOUTH NJ BLDG#: 290 NJDEP MW#: 2 Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 9554785V

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0550.D

Level: (low/med) LOW Date Received: 11/28/95

% Moisture: not dec. NA Date Analyzed: 12/11/95

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	19.63	1	J
2.	Column Bleed	23.01	1	J
3.				
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Quantitation Report

Data File : d:\hpchem\1\data\c0550.d
Acq On : 11 Dec 95 3:27 pm
Sample : 9554785 BLDG 290 MW-2
Misc : 25 ML
Quant Time: Dec 11 15:54 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.10	96	1403219	5.00	ug/L		-0.11
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.33	95	708387	4.68	ug/L		93.52%
57) 1,2-Dichlorobenzene-d4	22.12	152	432468	4.55	ug/L		91.05%
Target Compounds							Qvalue
9) Methylene chloride	7.70	84	153206	2.31	ug/L		96
14) cis-1,2-Dichloroethene	10.11	96	99714	1.34	ug/L	#	88

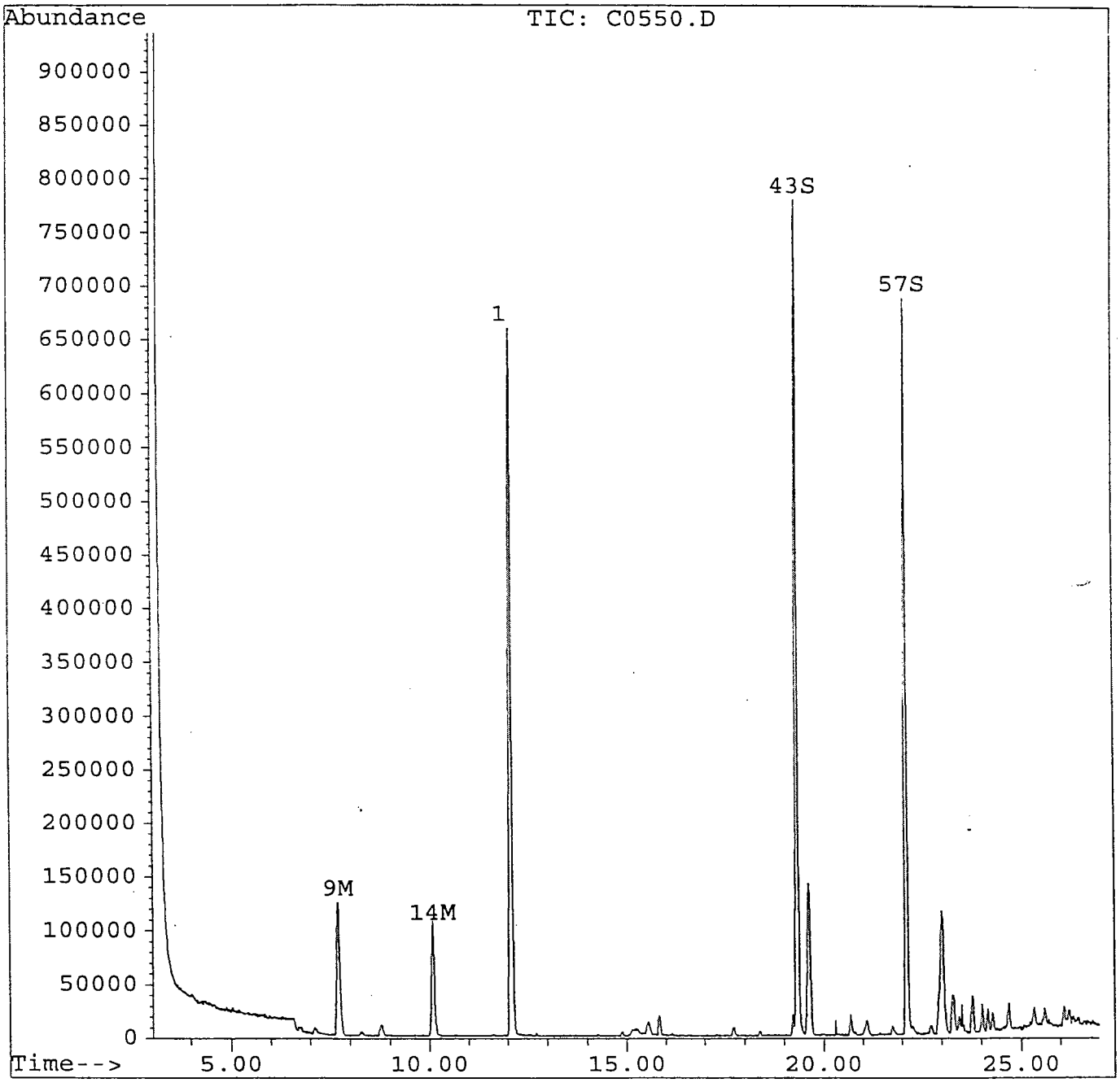
(#) = qualifier out of range (m) = manual integration

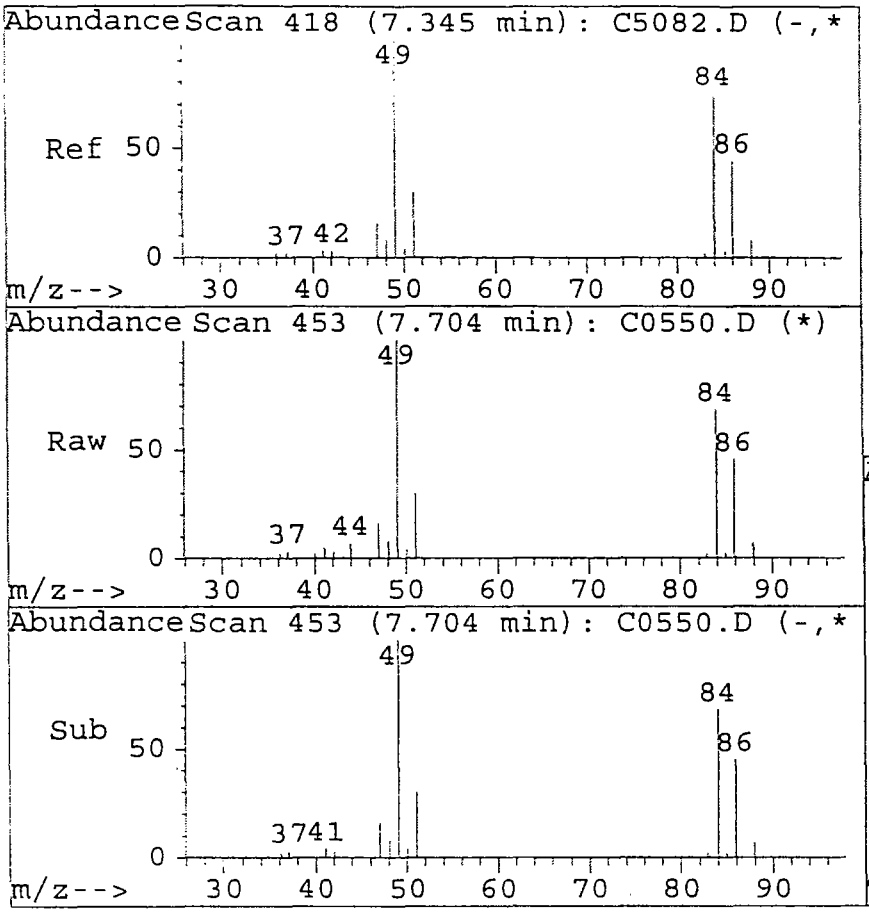
Quantitation Report

Data File : d:\hpchem\1\data\c0550.d
Acq On : 11 Dec 95 3:27 pm
Sample : 9554785 BLDG 290 MW-2
Misc : 25 ML
Quant Time: Dec 11 15:54 1995

Vial: 10 120
Operator: SRK
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

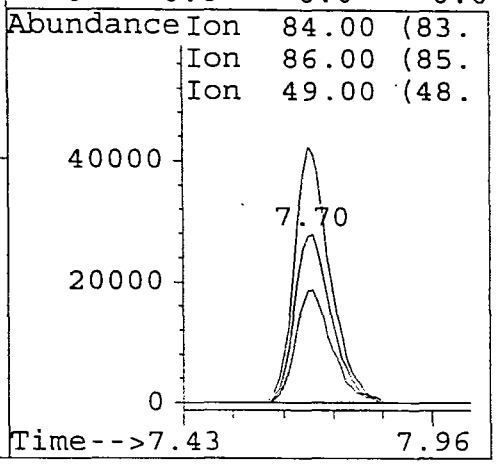


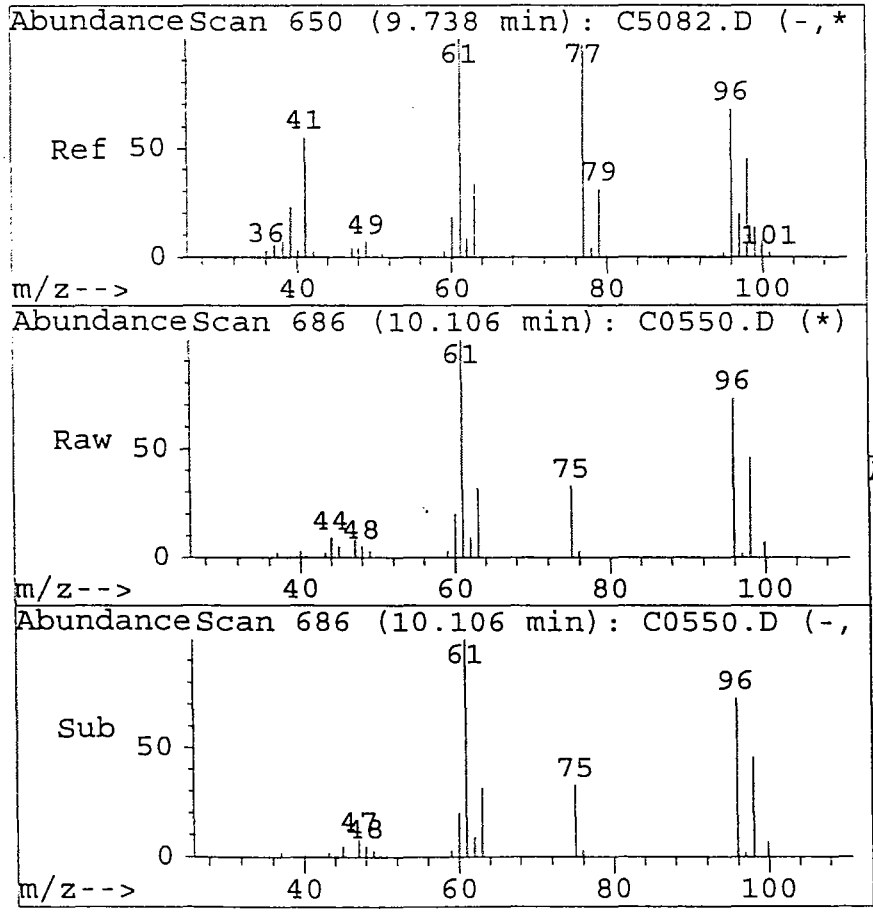


#9
Methylene chloride
Concen: 2.31 ug/L
RT: 7.70 min Scan# 453
Delta R.T. -0.12 min
Lab File: c0550.d
Acq: 11 Dec 95 3:27 pm

Tgt Ion:84 Resp: 153206

Ion	Ratio	Lower	Upper
84	100		
86	66.7	45.2	85.2
49	147.6	121.1	161.1
0	0.0	0.0	0.0

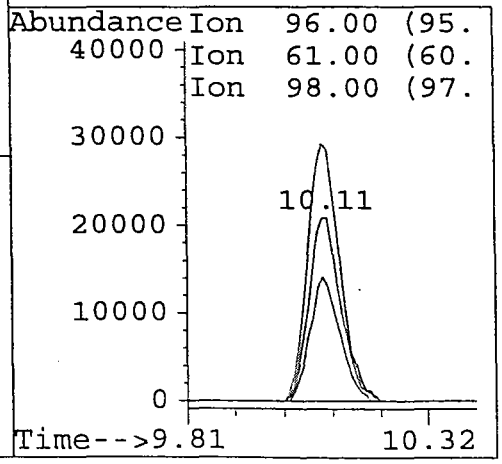




#14
cis-1,2-Dichloroethene
Concen: 1.34 ug/L
RT: 10.11 min Scan# 686
Delta R.T. -0.11 min
Lab File: c0550.d
Acq: 11 Dec 95 3:27 pm

Tgt Ion:96 Resp: 99714

Ion	Ratio	Lower	Upper
96	100		
61	136.3	136.7	176.7#
98	62.7	45.3	85.3
0	0.0	0.0	0.0



Library Search Compound Report

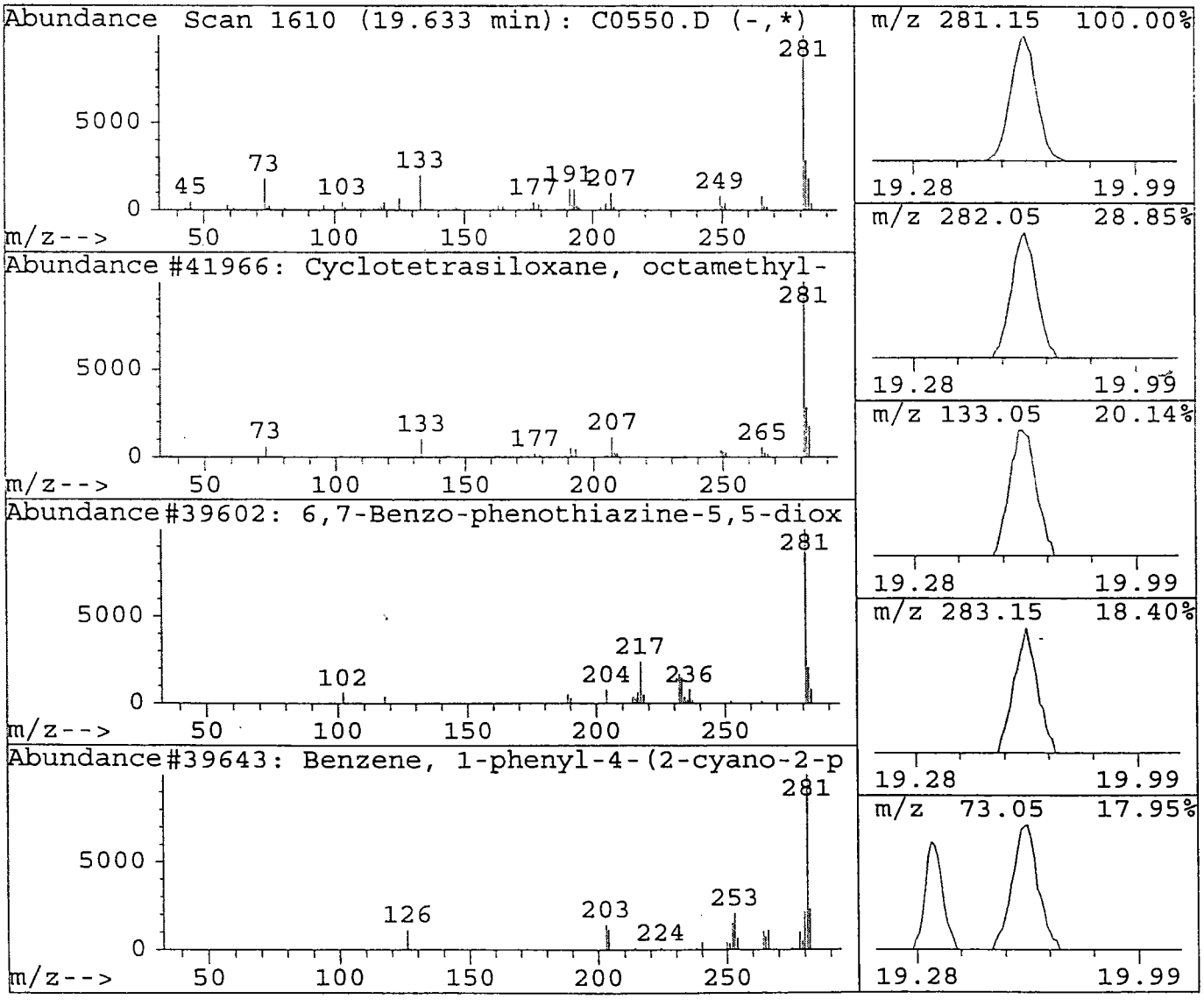
Data File : d:\hpchem\1\data\c0550.d
Acq On : 11 Dec 95 3:27 pm
Sample : 9554785 BLDG 290 MW-2
Misc : 25 ML

Vial: 10 122
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.
19.63	1.07 ug/L	636870	Fluorobenzene	12.10

Hit# of 15	Tentative ID	Ref#	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	41966	000556-67-2	64
2	6,7-Benzo-phenothiazine-5,5-dioxide	39602	000000-00-0	5
3	Benzene, 1-phenyl-4-(2-cyano-2-phen	39643	027869-56-3	50
4	4-(1-Benzimidazyl)-7-nitro-2,1,3-ox	39560	091485-32-4	5
5	3,6-Bis(N-dimethylamino)-9-ethylcar	39624	057103-04-5	50



Library Search Compound Report

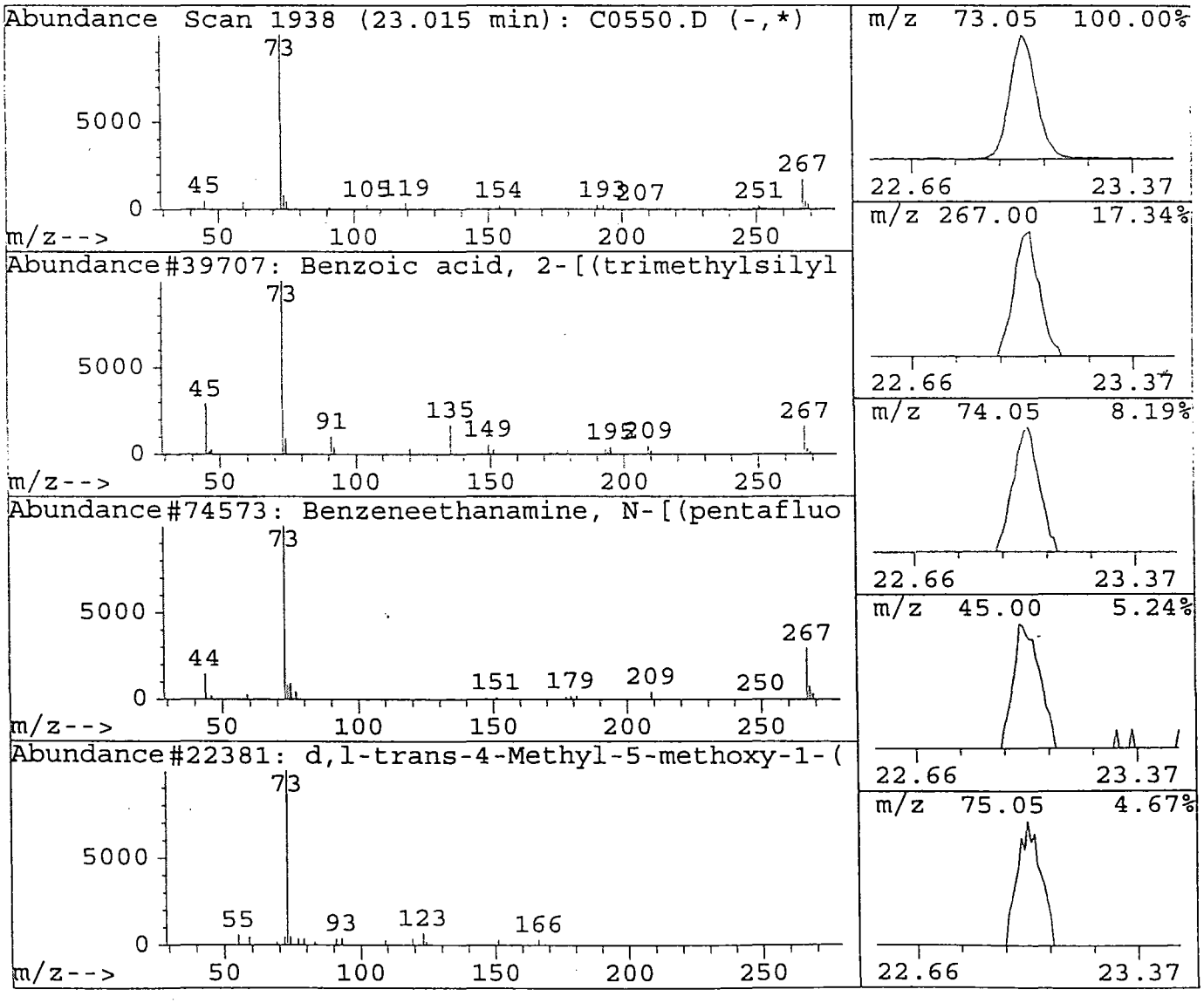
Data File : d:\hpchem\1\data\c0550.d
Acq On : 11 Dec 95 3:27 pm
Sample : 9554785 BLDG 290 MW-2
Misc : 25 ML

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.
23.01	1.11 ug/L	661491	Fluorobenzene	12.10

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	32
3	d,l-trans-4-Methyl-5-methoxy-1-(1-m	22381	000000-00-0	4
4	Octanal, 7-methoxy-3,7-dimethyl-	19455	003613-30-7	2
5	N-Ethylformamide	292	000627-45-2	3



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	10 QCS	99	99			
02	1 STND	98	99			
03	VBLK01	99	101			
04	9554060V	101	103			
05	9554061V	99	102			
06	9554062V	97	101			
07	9554101V	104	101			
08	9554102V	99	101			
09	9554063V	98	99			
10	9554060MS	98	96			
11	9554060MSD	96	97			
12						
13						
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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

Lab Name: EMSL ANALYTICAL Contract: _____

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

	SAMPLE NO.	SMC1 (BFB) #	SMC2 (DCB) #	#	OTHER #	TOT OUT
01	VBLK01	93	93			
02	9556244V	93	92			
03	9554556V	95	92			
04	9554783V	95	93			
05	9554784V	95	95			
06	9554782V	98	95			
07	9554781V	93	92			
08	9554785V	94	91			
09	9554786V	92	91			
10	9556244R	92	92			
11	9557565V	91	90			
12	9557565R	94	93			
13	9557078V	92	91			
14	10 QCS	90	88			
15	1 STND	93	90			
16						
17						
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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. 126

VBLK01

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Lab File ID: C0429.D Lab Sample ID: M. BLANK

Date Analyzed: 12/2/95 Time Analyzed: 1652

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	10 QCS	10 QCS	C0427.D	1544
02	1 STND	1 STND	C0428.D	1618
03	9554060V	9554060V	C0430.D	1726
04	9554061V	9554061V	C0431.D	1800
05	9554062V	9554062V	C0432.D	1835
06	9554101V	9554101V	C0433.D	1909
07	9554102V	9554102V	C0434.D	1944
08	9554063V	9554063V	C0435.D	2017
09	9554060MS	54060MS	C0438.D	2159
10	9554060MSD	54060MSD	C0439.D	2233
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

FMETL#

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

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

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0429.D

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

% Moisture: not dec. NA Date Analyzed: 12/2/95

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	
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# 126

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

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

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C0429.D

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

% Moisture: not dec. NA Date Analyzed: 12/2/95

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
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.

VBLK01

126

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: C0429.D

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

% Moisture: not dec. NA Date Analyzed: 12/2/95

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.				
6.				
7.				
8.				
9.				
10.				
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Quantitation Report

Data File : D:\HPCHEM\1\DATA\C0429.D
Acq On : 2 Dec 95 4:52 pm
Sample : METHOD BLANK
Misc :
Quant Time: Dec 5 11:51 1995

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

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.18	96	1681347	5.00	ug/L	-0.03
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.40	95	900410	4.96	ug/L	99.21%
57) 1,2-Dichlorobenzene-d4	22.20	152	577627	5.07	ug/L	101.50%
Target Compounds						Qvalue
9) Methylene chloride	7.79	84	36677	0.46	ug/L	98

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

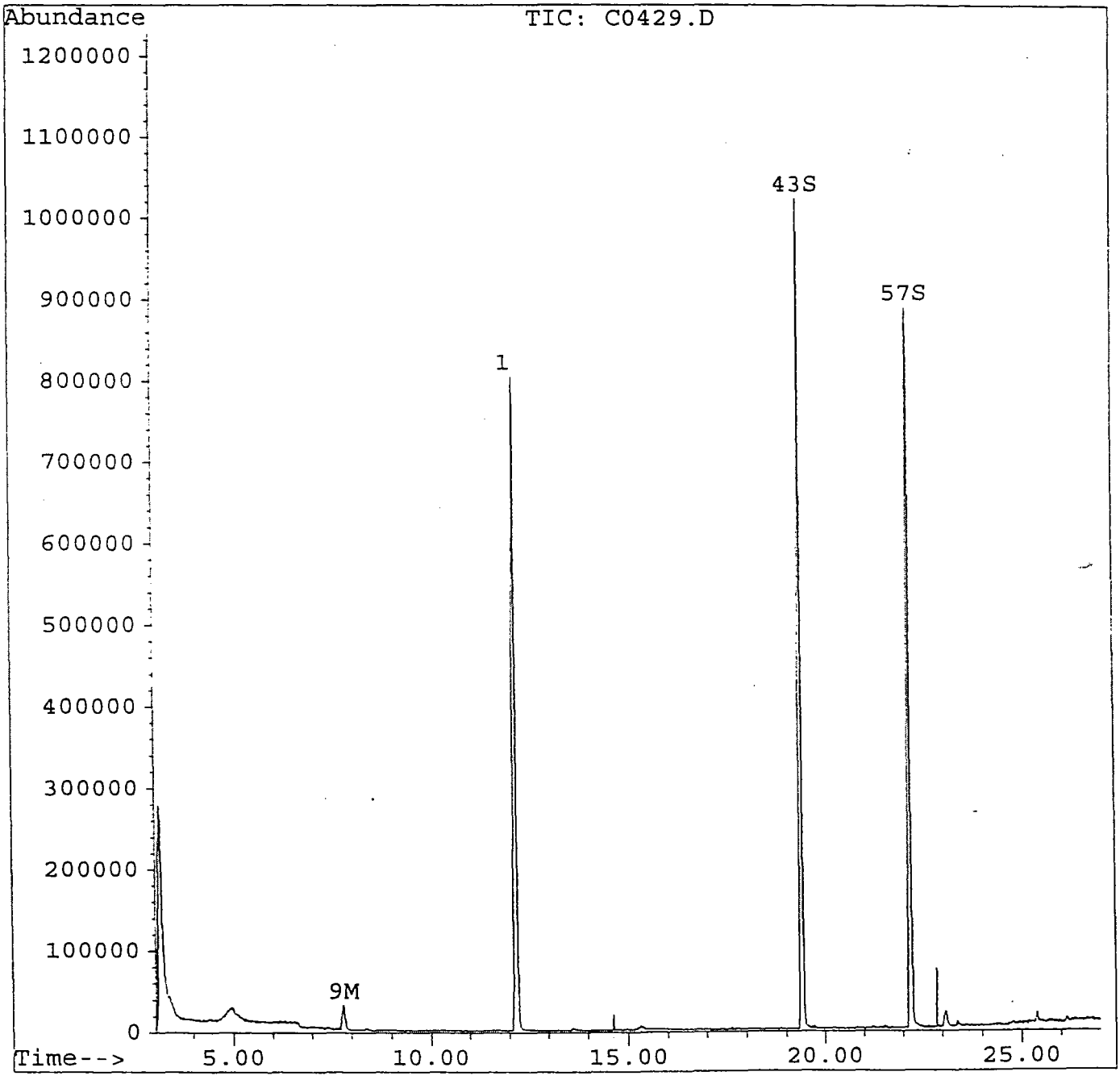
Quantitation Report

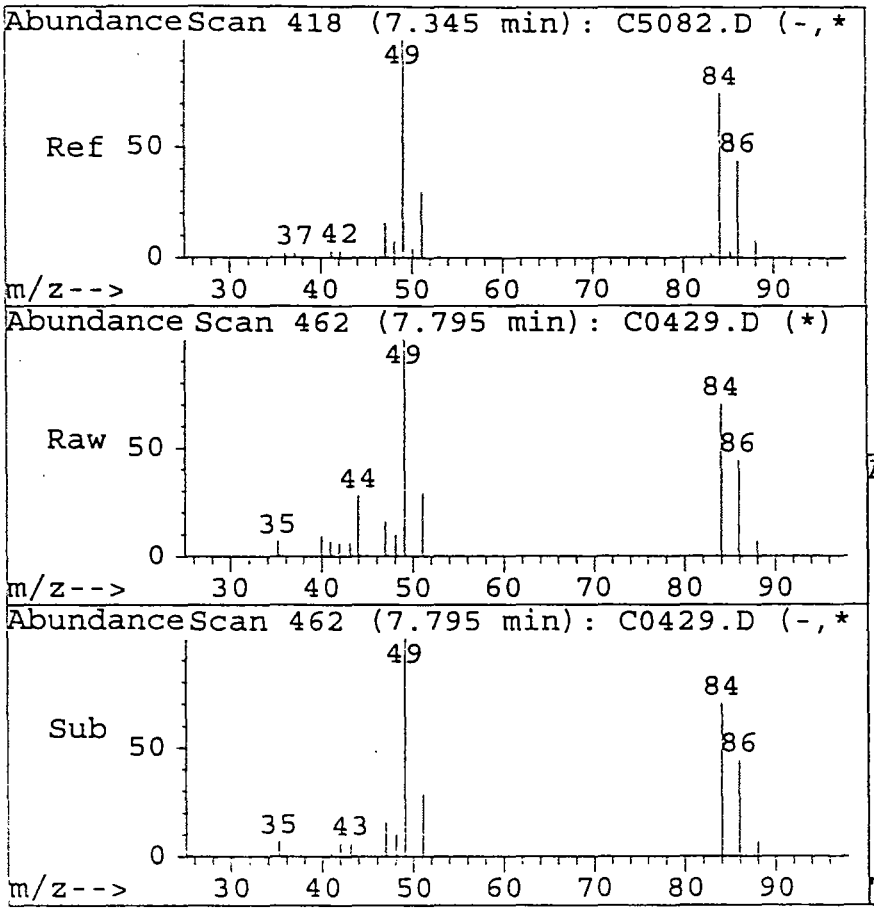
131

Data File : D:\HPCHEM\1\DATA\C0429.D
Acq On : 2 Dec 95 4:52 pm
Sample : METHOD BLANK
Misc :
Quant Time: Dec 5 11:51 1995

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

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

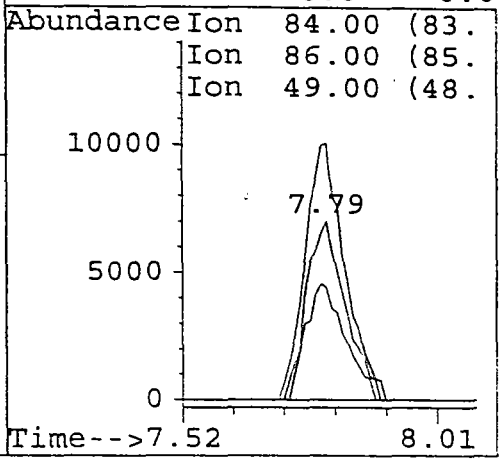




#9
Methylene chloride 132
Concen: 0.46 ug/L
RT: 7.79 min Scan# 462
Delta R.T. -0.03 min
Lab File: C0429.D
Acq: 2 Dec 95 4:52 pm

Tgt Ion:84 Resp: 36677

Ion	Ratio	Lower	Upper
84	100		
86	62.9	45.2	85.2
49	143.5	121.1	161.1
0	0.0	0.0	0.0



Library Search Compound Report

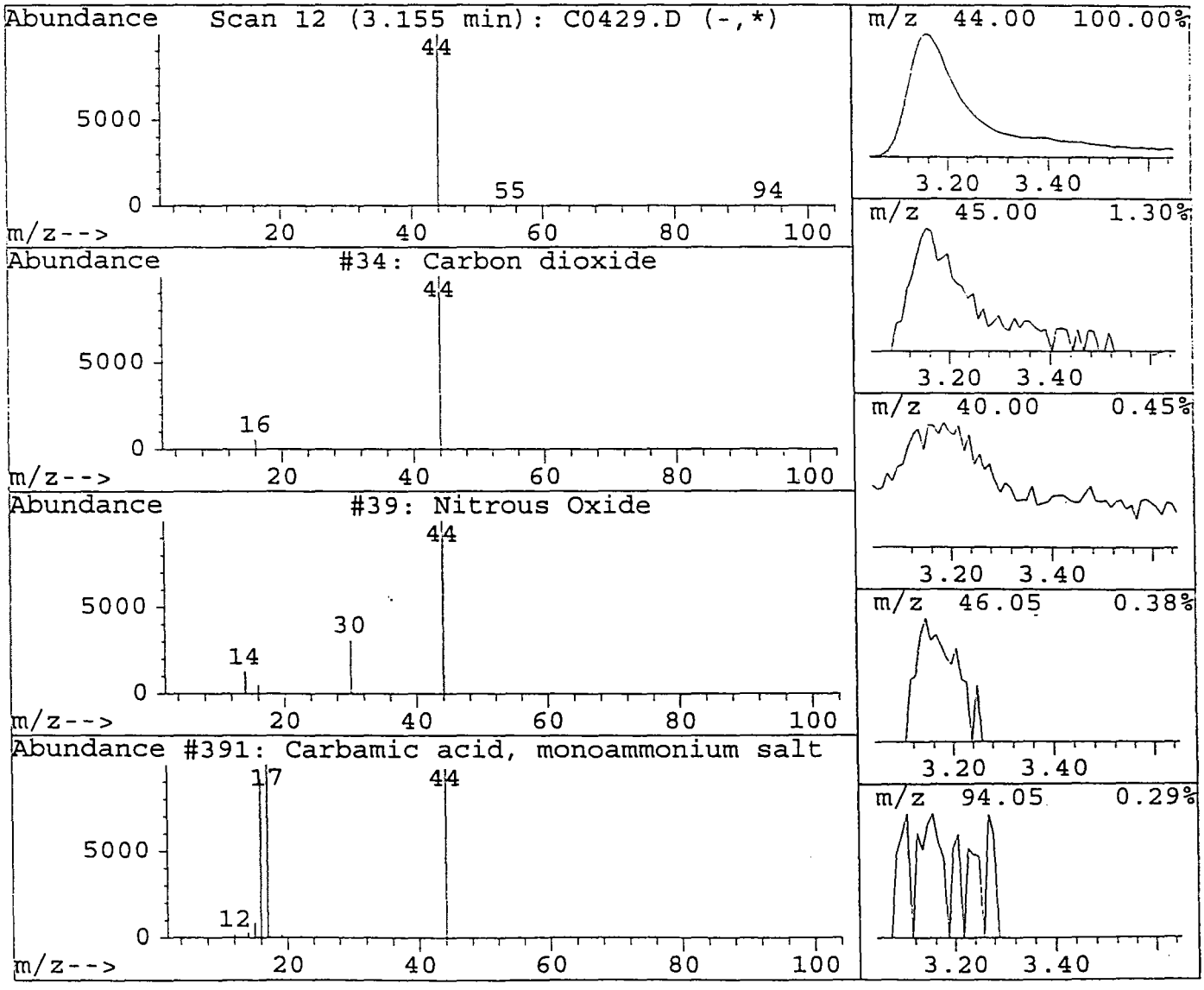
Data File : D:\HPCHEM\1\DATA\C0429.D
Acq On : 2 Dec 95 4:52 pm
Sample : METHOD BLANK
Misc :

Vial: 5
Operator: MDC
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.
3.15	3.00 ug/L	2109797	Fluorobenzene	12.18

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Carbon dioxide	34	000124-38-9	4
2	Nitrous Oxide	39	010024-97-2	3
3	Carbamic acid, monoammonium salt	391	001111-78-0	2
4	Cyclopropane, 1,1-dibromo-2-chloro-	33732	024071-57-6	2
5	Acetaldehyde	62264	000075-07-0	2



4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO. 134

VBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID: C0543.D Lab Sample ID: M. BLANK

Date Analyzed: 12/11/95 Time Analyzed: 1122

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	9556244V	9556244V	C0544.D	1157
02	9554556V	9554556V	C0545.D	1232
03	9554783V	9554783V	C0546.D	1307
04	9554784V	9554784V	C0547.D	1342
05	9554782V	9554782V	C0548.D	1417
06	9554781V	9554781V	C0549.D	1452
07	9554785V	9554785V	C0550.D	1527
08	9554786V	9554786V	C0551.D	1601
09	9556244R	9556244R	C0552.D	1636
10	9557565V	9557565V	C0553.D	1710
11	9557565R	9557565R	C0554.D	1744
12	9557078V	9557078V	C0555.D	1818
13	10 QCS	10 QCS	C0556.D	1853
14	1 STND	1 STND	C0557.D	1927
15				
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 135

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: C0543.D

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

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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	1.6	
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. 136

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: C0543.D

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

% Moisture: not dec. NA Date Analyzed: 12/11/95

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
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. 137
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: C0543.D

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

% Moisture: not dec. NA Date Analyzed: 12/11/95

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.				
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\c0543.d
Acq On : 11 Dec 95 11:22 am
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 11 11:49 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.07	96	1511323	5.00	ug/L	-0.14
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.31	95	757444	4.64	ug/L	92.84%
57) 1,2-Dichlorobenzene-d4	22.11	152	473335	4.63	ug/L	92.53%
Target Compounds						Qvalue
9) Methylene chloride	7.67	84	116814	1.63	ug/L	99

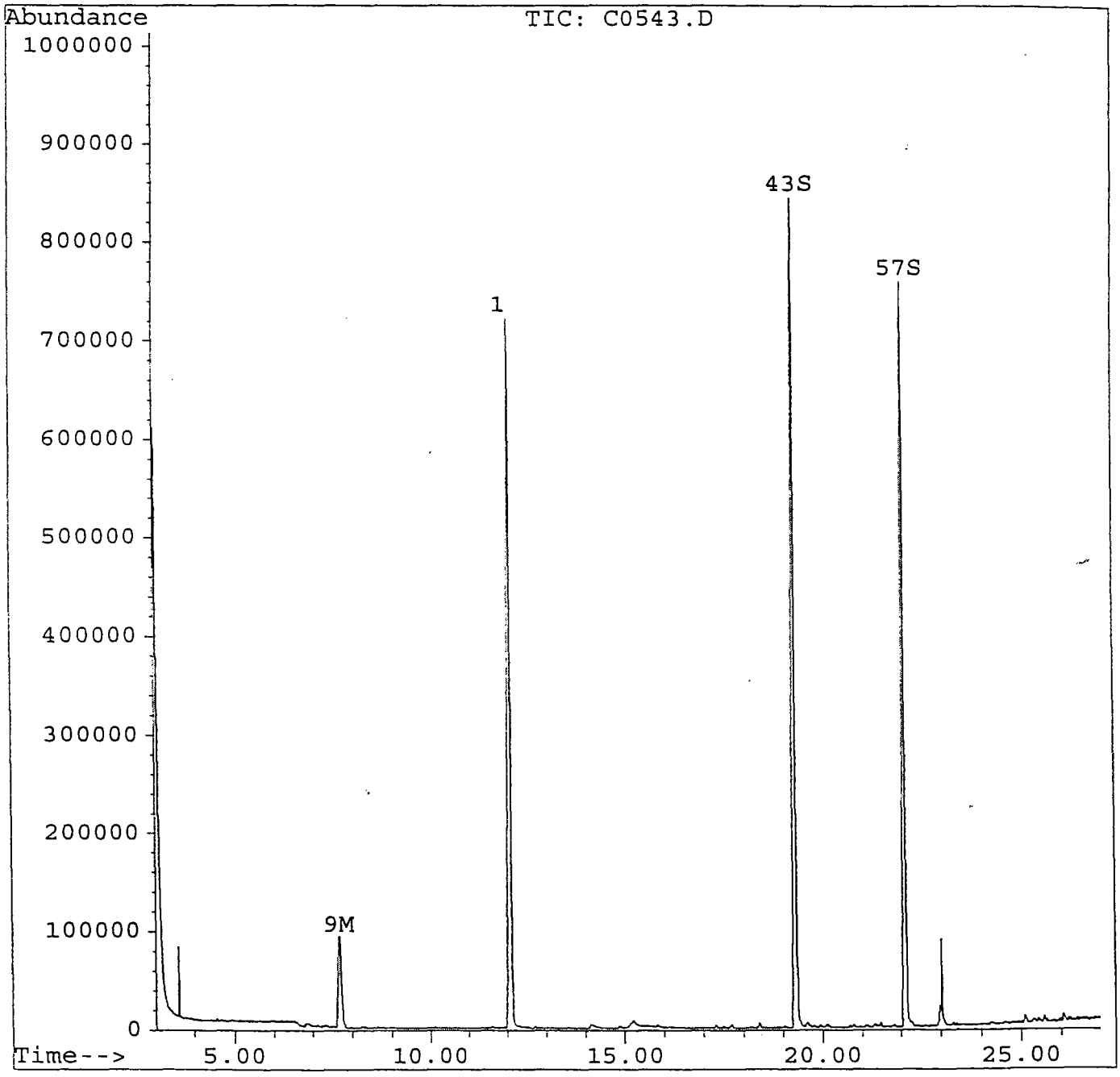
(#) = qualifier out of range (m) = manual integration

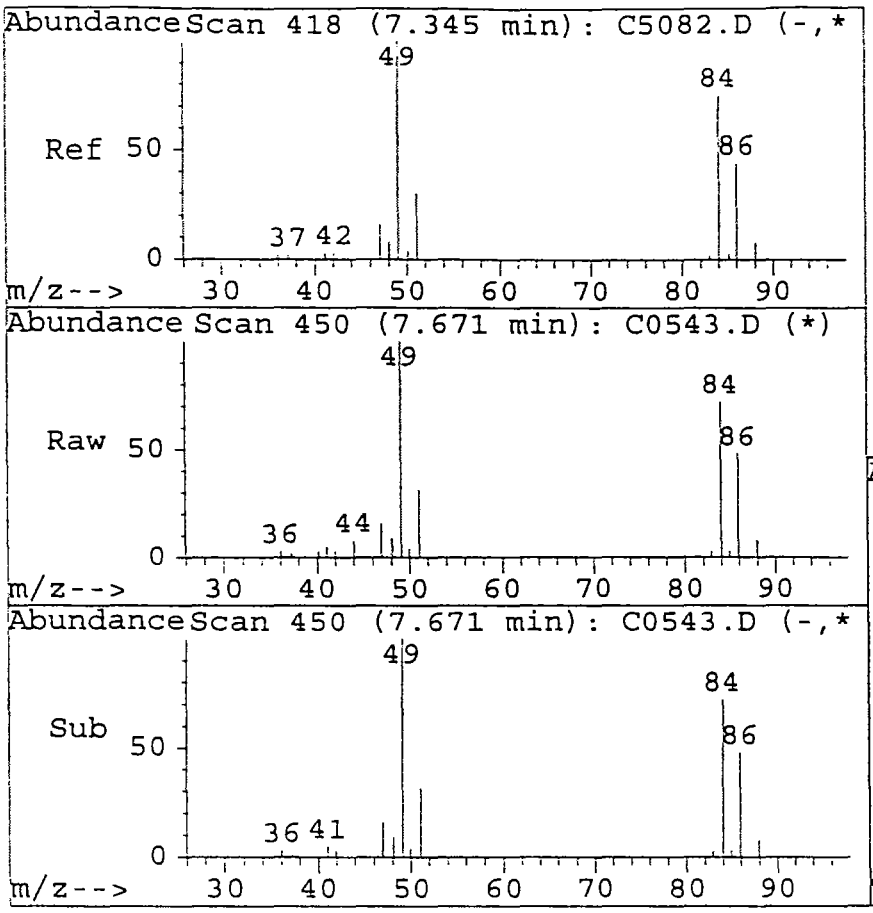
Quantitation Report

Data File : d:\hpchem\1\data\c0543.d
Acq On : 11 Dec 95 11:22 am
Sample : METHOD BLANK
Misc : 25 ML
Quant Time: Dec 11 11:49 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 : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

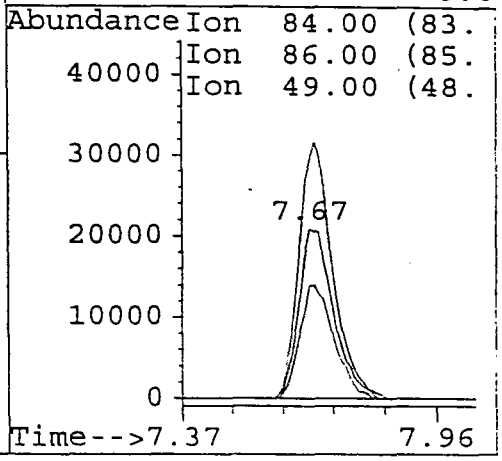




#9
Methylene chloride
Concen: 1.63 ug/L
RT: 7.67 min Scan# 450
Delta R.T. -0.16 min
Lab File: c0543.d
Acq: 11 Dec 95 11:22 am

Tgt Ion:84 Resp: 116814

Ion	Ratio	Lower	Upper
84	100		
86	66.6	45.2	85.2
49	139.5	121.1	161.1
0	0.0	0.0	0.0



Library Search Compound Report

Data File : d:\hpchem\1\data\c0543.d
Acq On : 11 Dec 95 11:22 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 : NBS75K.L

No Library Search Compounds Detected

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Initial Calibration

Non-Spiked Sample: C0430.D

	Spike Sample	Spike Duplicate Sample
File ID :	C0438.D	C0439.D
Sample :	9554060 MS BLDG 108 MW-3	9554060 MSD BLDG 108 MW-3
Acq Time:	2 Dec 95 9:59 pm	2 Dec 95 10:33 pm

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	9	89	89	1	25	80-120
Chloromethane	0.0	10	10	10	100	97	2	25	80-120
Vinyl chloride	0.0	10	10	10	102	99	4	25	80-120
Bromomethane	0.0	10	10	10	96	97	1	25	80-120
Chloroethane	0.0	10	12	12	117	116	1	25	80-120
Trichlorofluorometha	0.0	10	10	10	102	100	2	25	80-120
1,1-Dichloroethene	0.0	10	10	10	102	101	1	25	80-120
Methylene chloride	0.7	10	9	9	86	86	0	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	102	0	25	80-120
2,2-Dichloropropane	0.1	10	9	9	88	87	1	25	80-120
cis-1,2-Dichloroethe	0.0	10	10	10	101	101	0	25	80-120
Bromochloromethane	0.0	10	10	10	96	97	0	25	80-120
Chloroform	0.0	10	10	10	99	99	0	25	80-120
1,1,1-Trichloroethan	0.0	10	10	10	100	100	0	25	80-120
Carbon tetrachloride	0.0	10	10	10	99	99	0	25	80-120
1,1-Dichloropropene	0.0	10	10	10	101	100	1	25	80-120
Benzene	0.0	10	10	10	99	98	0	25	80-120
1,2-Dichloroethane	0.0	10	10	9	96	95	1	25	80-120
Trichloroethene	0.0	10	10	10	100	98	1	25	80-120
1,2-Dichloropropane	0.0	10	10	10	102	103	1	25	80-120
Dibromomethane	0.0	10	10	10	98	98	1	25	80-120
Bromodichloromethane	0.0	10	10	10	97	96	1	25	80-120
cis-1,3-Dichloroprop	0.0	10	10	9	96	94	2	25	80-120
Toluene	0.0	10	10	10	100	99	1	25	80-120
trans-1,3-Dichloropr	0.0	10	9	9	94	91	3	25	80-120
1,1,2-Trichloroethan	0.0	10	10	10	97	97	0	25	80-120
Tetrachloroethene	0.0	10	10	10	97	97	1	25	80-120
1,3-Dichloropropane	0.0	10	10	10	98	97	1	25	80-120
Dibromochloromethane	0.0	10	10	9	95	93	3	25	80-120
1,2-Dibromoethane	0.0	10	10	10	96	96	0	25	80-120
Chlorobenzene	0.0	10	10	10	98	98	1	25	80-120
1,1,1,2-Tetrachloroe	0.0	10	10	10	98	97	1	25	80-120
Ethylbenzene	0.0	10	10	10	98	97	1	25	80-120
Xylene (para & meta)	0.0	20	19	19	97	96	1	25	80-120
Xylene (Ortho)	0.0	10	10	10	97	96	1	25	80-120
Styrene	0.0	10	9	9	90	90	0	25	80-120
Bromoform	0.0	10	9	9	93	91	2	25	80-120
Isopropylbenzene	0.0	10	10	10	99	97	1	25	80-120
Bromobenzene	0.0	10	10	10	98	96	1	25	80-120
1,1,2,2-Tetrachloroe	0.0	10	10	10	103	101	1	25	80-120
1,2,3-Trichloropropa	0.0	10	10	9	95	94	1	25	80-120

2-Chlorotoluene	0.0	10	9	9	95	94	0	25	80-120
4-Chlorotoluene	0.0	10	10	10	99	98	1	25	80-120
1,3,5-Trimethylbenze	0.0	10	9	9	92	90	2	25	80-120
tert-Butylbenzene	0.0	10	10	10	99	98	1	25	80-120
1,2,4-Trimethylbenze	0.0	10	9	9	92	91	2	25	80-120
sec-Butylbenzene	0.0	10	10	10	100	99	1	25	80-120
1,3-Dichlorobenzene	0.0	10	10	10	96	95	2	25	80-120
4-Isopropyltoluene	0.0	10	10	10	98	97	1	25	80-120
1,4-Dichlorobenzene	0.0	10	10	10	97	95	3	25	80-120
1,2-Dichlorobenzene	0.0	10	10	9	96	94	2	25	80-120
n-Butylbenzene	0.0	10	10	10	99	99	1	25	80-120
1,2-Dibromo-3-chloro	0.0	10	9	9	90	88	2	25	80-120
1,2,4-Trichlorobenze	0.0	10	9	9	91	92	2	25	80-120
Hexachlorobutadiene	0.0	10	9	9	93	95	3	25	80-120
Naphthalene	0.0	10	9	9	93	92	1	25	80-120
1,2,3-Trichlorobenze	0.0	10	9	9	89	91	3	25	80-120

Quantitation Report

Data File : d:\hpchem\1\data\c0438.d
Acq On : 2 Dec 95 9:59 pm
Sample : 9554060 MS BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:10 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	12.18	96	1703293	5.00	ug/L		-0.03
System Monitoring Compounds							%Recovery
43) 4-Bromofluorobenzene	19.40	95	897430	4.88	ug/L		97.60%
57) 1,2-Dichlorobenzene-d4	22.20	152	553194	4.80	ug/L		95.95%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.51	85	820685	8.90	ug/L		99
3) Chloromethane	3.94	50	698309	9.97	ug/L		96
4) Vinyl chloride	4.15	62	797767	10.24	ug/L		99
5) Bromomethane	4.85	94	526929	9.73	ug/L		99
6) Chloroethane	5.08	64	506891	11.71	ug/L		99
7) Trichlorofluoromethane	5.68	101	1376902	10.23	ug/L		98
8) 1,1-Dichloroethene	6.80	96	823573	10.21	ug/L		99
9) Methylene chloride	7.79	84	753291	9.34	ug/L		97
10) trans-1,2-Dichloroethene	8.33	96	927299	10.07	ug/L		98
12) 1,1-Dichloroethane	9.13	63	1767798	10.22	ug/L		99
13) 2,2-Dichloropropane	10.17	77	1278341	8.84	ug/L		99
14) cis-1,2-Dichloroethene	10.18	96	911322	10.07	ug/L		98
16) Bromochloromethane	10.60	128	377895	9.63	ug/L	#	91
17) Chloroform	10.75	83	1582880	9.90	ug/L		98
18) 1,1,1-Trichloroethane	11.05	97	1542519	9.97	ug/L		98
19) Carbon tetrachloride	11.35	117	1450672	9.92	ug/L		99
20) 1,1-Dichloropropene	11.34	75	1459229	10.11	ug/L		99
21) Benzene	11.70	78	2943226	9.93	ug/L		99
22) 1,2-Dichloroethane	11.72	62	634752	9.56	ug/L		97
23) Trichloroethene	12.80	95	1223246	9.95	ug/L		98
24) 1,2-Dichloropropane	13.17	63	1047852	10.19	ug/L		99
25) Dibromomethane	13.37	93	443065	9.82	ug/L		94
26) Bromodichloromethane	13.63	83	1298055	9.75	ug/L		100
27) cis-1,3-Dichloropropene	14.38	75	1152102	9.60	ug/L		99
28) Toluene	14.96	92	2090210	10.00	ug/L		99
29) trans-1,3-Dichloropropene	15.31	75	776000	9.37	ug/L		99
30) 1,1,2-Trichloroethane	15.63	83	430739	9.68	ug/L		99
31) Tetrachloroethene	15.91	166	1443936	9.74	ug/L		98
32) 1,3-Dichloropropane	15.92	76	824220	9.78	ug/L		99
33) Dibromochloromethane	16.32	129	845187	9.55	ug/L		98
34) 1,2-Dibromoethane	16.53	107	624674	9.63	ug/L		98
35) Chlorobenzene	17.38	112	2371559	9.84	ug/L		99
36) 1,1,1,2-Tetrachloroethane	17.52	131	980852	9.80	ug/L		98
37) Ethylbenzene	17.56	91	4220466	9.83	ug/L		99
38) Xylene (para & meta)	17.77	106	3161312	19.45	ug/L		97
39) Xylene (Ortho)	18.47	106	1446932	9.70	ug/L		98
40) Styrene	18.49	104	2056886	8.99	ug/L		100

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

Quantitation Report

Data File : d:\hpchem\1\data\c0438.d
Acq On : 2 Dec 95 9:59 pm
Sample : 9554060 MS BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:10 1995

Vial: 14 145
Operator: MDC
Inst : 5972 - In
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.84	173	451295	9.30	ug/L		99
42)	Isopropylbenzene	19.12	105	4095957	9.87	ug/L	m	0
44)	Bromobenzene	19.68	156	1052449	9.78	ug/L		98
45)	1,1,2,2-Tetrachloroethane	19.64	83	558844	10.26	ug/L		100
46)	1,2,3-Trichloropropane	19.72	75	538462	9.62	ug/L		94
47)	n-Propylbenzene	19.86	91	5613614	9.91	ug/L		100
48)	2-Chlorotoluene	20.02	91	3138751	9.47	ug/L		100
49)	4-Chlorotoluene	20.22	91	3658824	9.91	ug/L		99
50)	1,3,5-Trimethylbenzene	20.17	105	3331590	9.25	ug/L		98
51)	tert-Butylbenzene	20.77	119	4019878	9.94	ug/L		98
52)	1,2,4-Trimethylbenzene	20.85	105	3330253	9.25	ug/L		99
53)	sec-Butylbenzene	21.17	105	5518689	10.05	ug/L		100
54)	1,3-Dichlorobenzene	21.38	146	2069849	9.72	ug/L		99
55)	4-Isopropyltoluene	21.43	119	4337269	9.83	ug/L		100
56)	1,4-Dichlorobenzene	21.54	146	2046903	9.81	ug/L		99
58)	1,2-Dichlorobenzene	22.23	146	1620495	9.63	ug/L		98
59)	n-Butylbenzene	22.17	91	4466334	9.97	ug/L		98
60)	1,2-Dibromo-3-chloropropan	23.64	75	103985	9.04	ug/L		93
61)	1,2,4-Trichlorobenzene	25.19	180	1236512	9.07	ug/L		100
62)	Hexachlorobutadiene	25.51	225	1096197	9.25	ug/L		99
63)	Naphthalene	25.66	128	1229866	9.34	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.15	180	884388	8.90	ug/L		99
65)	Methyl-tert butyl ether	8.37	73	1022390	9.81	ug/L		99
66)	tert-Butyl Alcohol	8.15	59	34747	22.63	ug/L		100

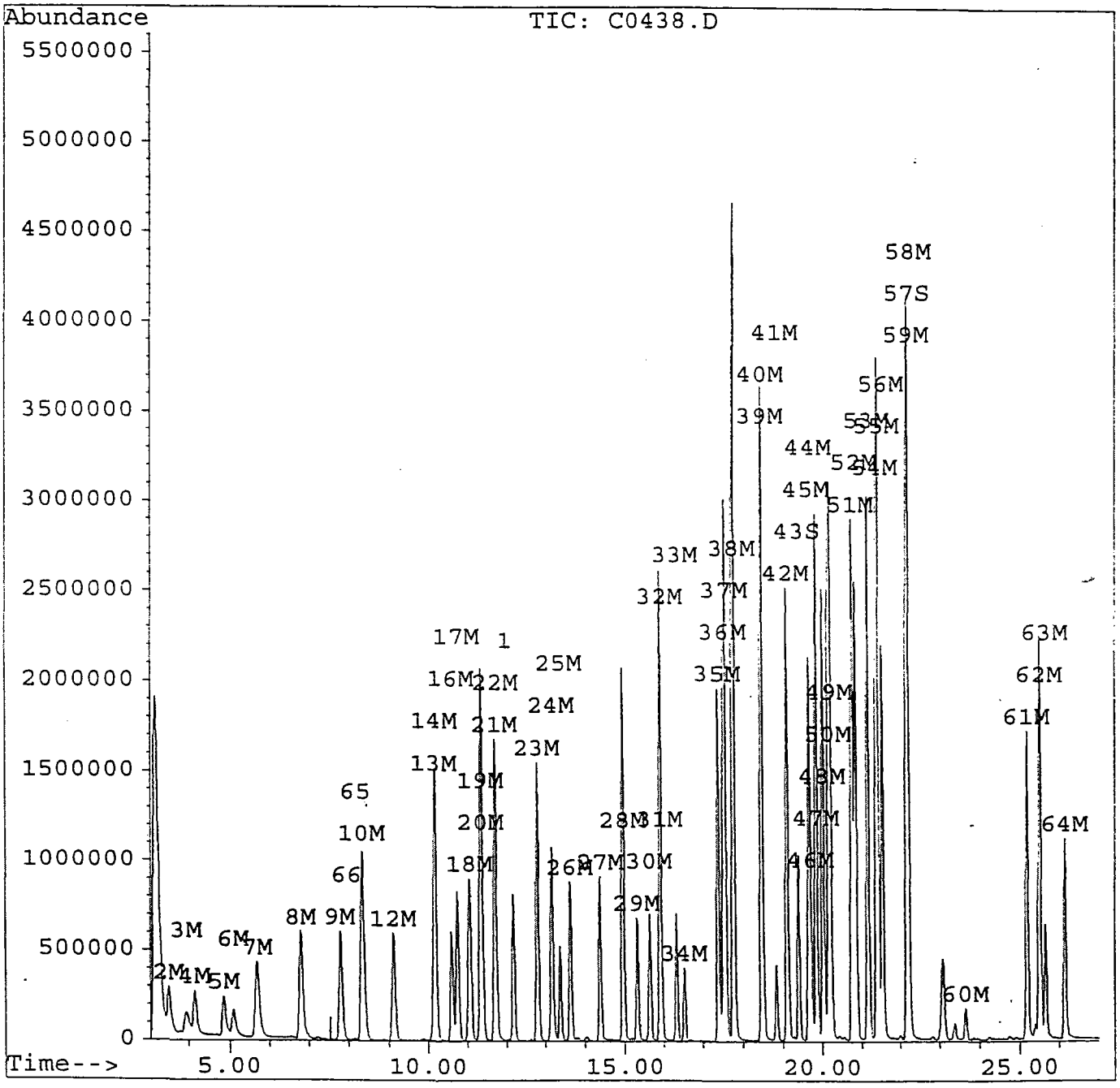
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0438.d
Acq On : 2 Dec 95 9:59 pm
Sample : 9554060 MS BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:10 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : d:\hpchem\1\data\c0439.d
Acq On : 2 Dec 95 10:33 pm
Sample : 9554060 MSD BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:11 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.18	96	1698292	5.00	ug/L	-0.03
System Monitoring Compounds						%Recovery
43) 4-Bromofluorobenzene	19.40	95	883203	4.82	ug/L	96.34%
57) 1,2-Dichlorobenzene-d4	22.20	152	555400	4.83	ug/L	96.62%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.50	85	813406	8.85	ug/L	97
3) Chloromethane	3.94	50	679127	9.72	ug/L	100
4) Vinyl chloride	4.14	62	766232	9.86	ug/L	98
5) Bromomethane	4.83	94	531136	9.84	ug/L	97
6) Chloroethane	5.09	64	499315	11.56	ug/L	97
7) Trichlorofluoromethane	5.68	101	1352386	10.08	ug/L	99
8) 1,1-Dichloroethene	6.79	96	814526	10.13	ug/L	99
9) Methylene chloride	7.79	84	748911	9.32	ug/L	99
10) trans-1,2-Dichloroethene	8.33	96	927475	10.10	ug/L	99
12) 1,1-Dichloroethane	9.12	63	1756085	10.18	ug/L	99
13) 2,2-Dichloropropane	10.16	77	1263265	8.76	ug/L	100
14) cis-1,2-Dichloroethene	10.18	96	911494	10.10	ug/L	98
16) Bromochloromethane	10.60	128	378121	9.66	ug/L	93
17) Chloroform	10.75	83	1578477	9.91	ug/L	99
18) 1,1,1-Trichloroethane	11.06	97	1542978	10.00	ug/L	100
19) Carbon tetrachloride	11.35	117	1441710	9.89	ug/L	98
20) 1,1-Dichloropropene	11.35	75	1440937	10.01	ug/L	99
21) Benzene	11.70	78	2920025	9.88	ug/L	100
22) 1,2-Dichloroethane	11.72	62	627677	9.48	ug/L	98
23) Trichloroethene	12.80	95	1204168	9.83	ug/L	98
24) 1,2-Dichloropropane	13.17	63	1053165	10.27	ug/L	99
25) Dibromomethane	13.37	93	439241	9.76	ug/L	96
26) Bromodichloromethane	13.64	83	1282014	9.65	ug/L	97
27) cis-1,3-Dichloropropene	14.38	75	1126773	9.41	ug/L	98
28) Toluene	14.96	92	2067420	9.92	ug/L	99
29) trans-1,3-Dichloropropene	15.32	75	749502	9.07	ug/L	99
30) 1,1,2-Trichloroethane	15.64	83	430766	9.71	ug/L	98
31) Tetrachloroethene	15.91	166	1430996	9.68	ug/L	99
32) 1,3-Dichloropropane	15.93	76	813068	9.68	ug/L	99
33) Dibromochloromethane	16.33	129	820032	9.29	ug/L	100
34) 1,2-Dibromoethane	16.54	107	620011	9.59	ug/L	98
35) Chlorobenzene	17.38	112	2351583	9.79	ug/L	100
36) 1,1,1,2-Tetrachloroethane	17.52	131	966332	9.68	ug/L	99
37) Ethylbenzene	17.56	91	4161259	9.72	ug/L	100
38) Xylene (para & meta)	17.76	106	3116953	19.24	ug/L	99
39) Xylene (Ortho)	18.48	106	1433164	9.64	ug/L	97
40) Styrene	18.50	104	2048262	8.97	ug/L	97

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

Quantitation Report

Data File : d:\hpchem\1\data\c0439.d
Acq On : 2 Dec 95 10:33 pm
Sample : 9554060 MSD BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:11 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
41)	Bromoform	18.84	173	440898	9.11	ug/L		98
42)	Isopropylbenzene	19.12	105	4039408	9.76	ug/L	m	0
44)	Bromobenzene	19.69	156	1034795	9.65	ug/L		99
45)	1,1,2,2-Tetrachloroethane	19.65	83	550664	10.14	ug/L		96
46)	1,2,3-Trichloropropane	19.72	75	529868	9.50	ug/L	#	74
47)	n-Propylbenzene	19.86	91	5528055	9.78	ug/L		100
48)	2-Chlorotoluene	20.03	91	3115655	9.43	ug/L		99
49)	4-Chlorotoluene	20.22	91	3597275	9.77	ug/L		98
50)	1,3,5-Trimethylbenzene	20.18	105	3256240	9.07	ug/L		98
51)	tert-Butylbenzene	20.76	119	3975738	9.86	ug/L		97
52)	1,2,4-Trimethylbenzene	20.86	105	3267491	9.11	ug/L		99
53)	sec-Butylbenzene	21.17	105	5446678	9.95	ug/L		99
54)	1,3-Dichlorobenzene	21.38	146	2031549	9.57	ug/L		99
55)	4-Isopropyltoluene	21.42	119	4299083	9.77	ug/L		99
56)	1,4-Dichlorobenzene	21.55	146	1988592	9.56	ug/L		100
58)	1,2-Dichlorobenzene	22.23	146	1588483	9.46	ug/L		97
59)	n-Butylbenzene	22.18	91	4430414	9.92	ug/L		99
60)	1,2-Dibromo-3-chloropropan	23.65	75	101512	8.85	ug/L		98
61)	1,2,4-Trichlorobenzene	25.20	180	1253282	9.22	ug/L		100
62)	Hexachlorobutadiene	25.52	225	1120719	9.49	ug/L		99
63)	Naphthalene	25.66	128	1212182	9.23	ug/L	m	0
64)	1,2,3-Trichlorobenzene	26.16	180	905706	9.14	ug/L		96
65)	Methyl-tert butyl ether	8.37	73	1003755	9.66	ug/L		99
66)	tert-Butyl Alcohol	8.11	59	74140	48.43	ug/L		100

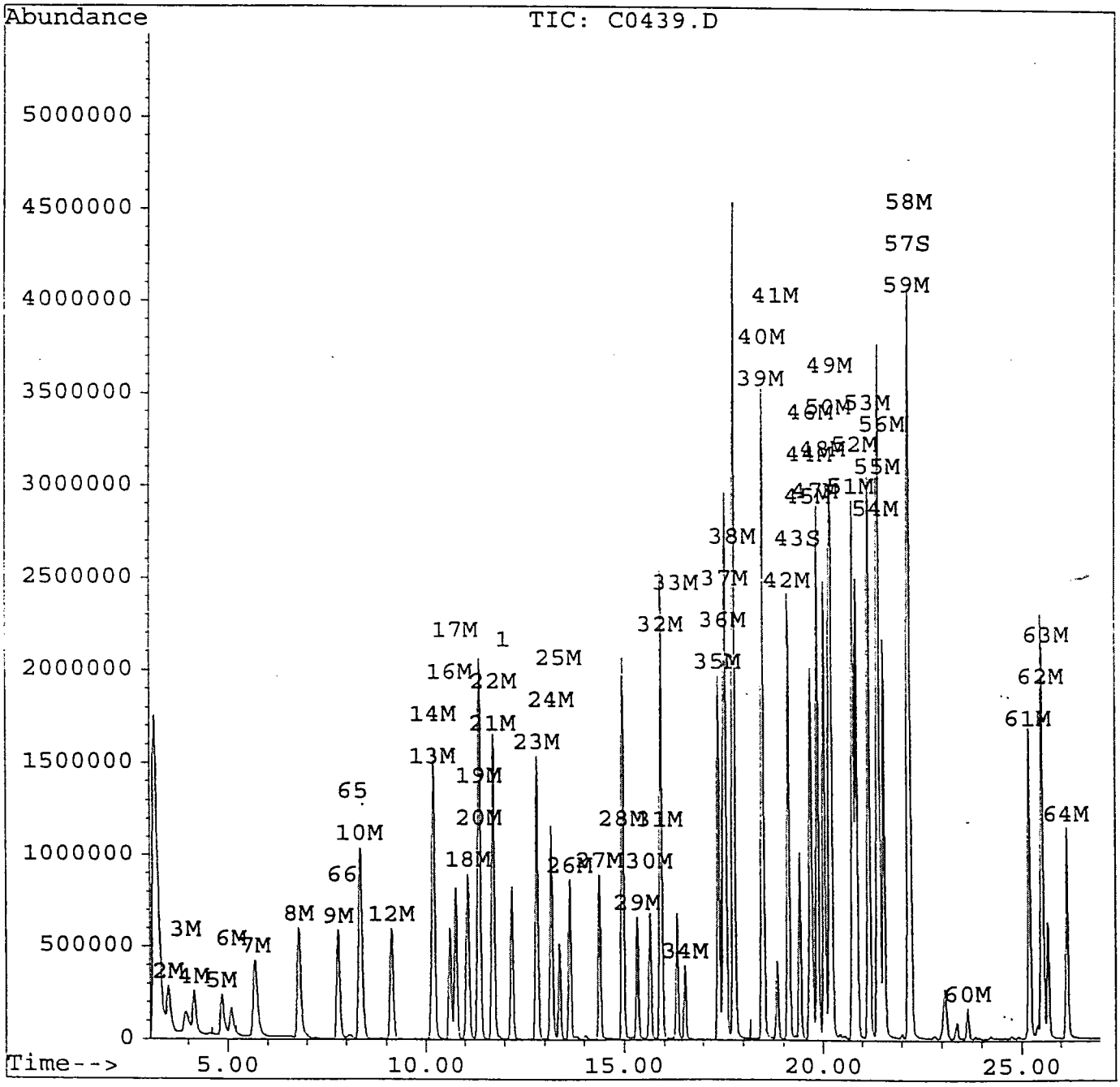
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : d:\hpchem\1\data\c0439.d
Acq On : 2 Dec 95 10:33 pm
Sample : 9554060 MSD BLDG 108 MW-3
Misc : 25 ML
Quant Time: Dec 5 12:11 1995

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

Method : c:\HPCHEM\1\METHODS\VOA524.M
Title : 524.2 Purgable Organics
Last Update : Wed Nov 22 09:25:47 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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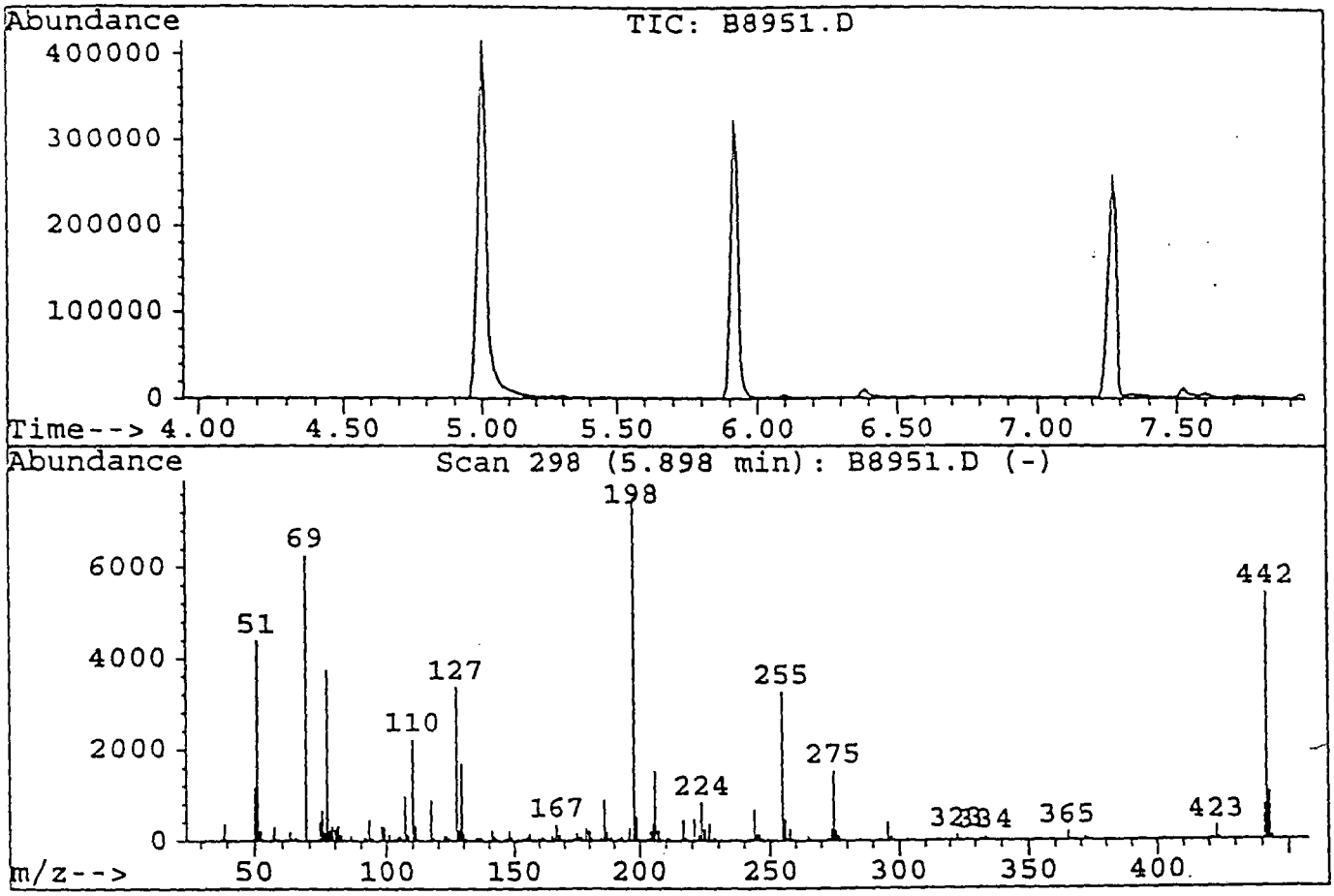
DFTPP

Data File : C:\HPCHEM\1\DATA2\B8951.D Vial: 1
Acq On : 22 Oct 95 4:20 pm Operator: SCOTTV
Sample : DFTPP ..... Converted from RTE d Inst : ABNA
Misc : 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 298 (5.898 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

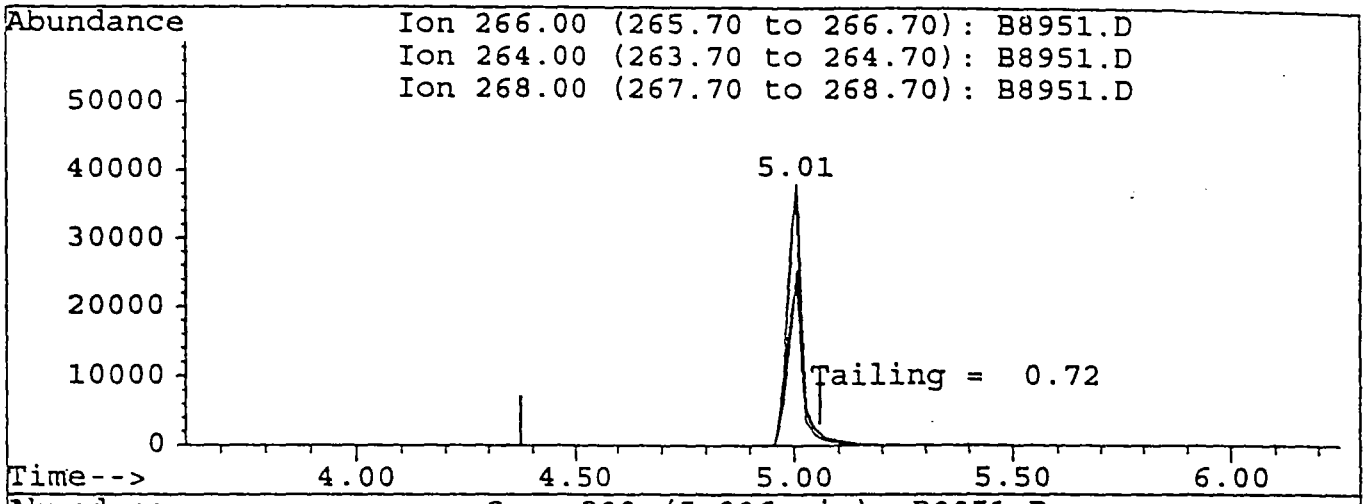
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.85	86						

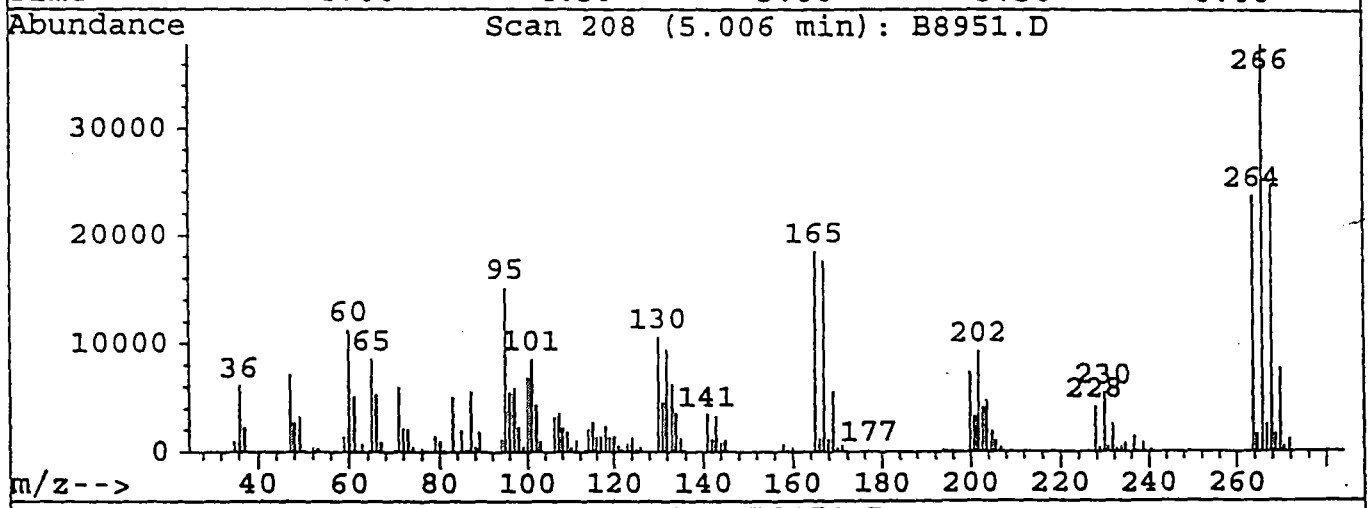
Quantitation Report

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





TIC: B8951.D

(1) Pentachlorophenol (CM)

5.01min 266.46ug/mL

response 88011

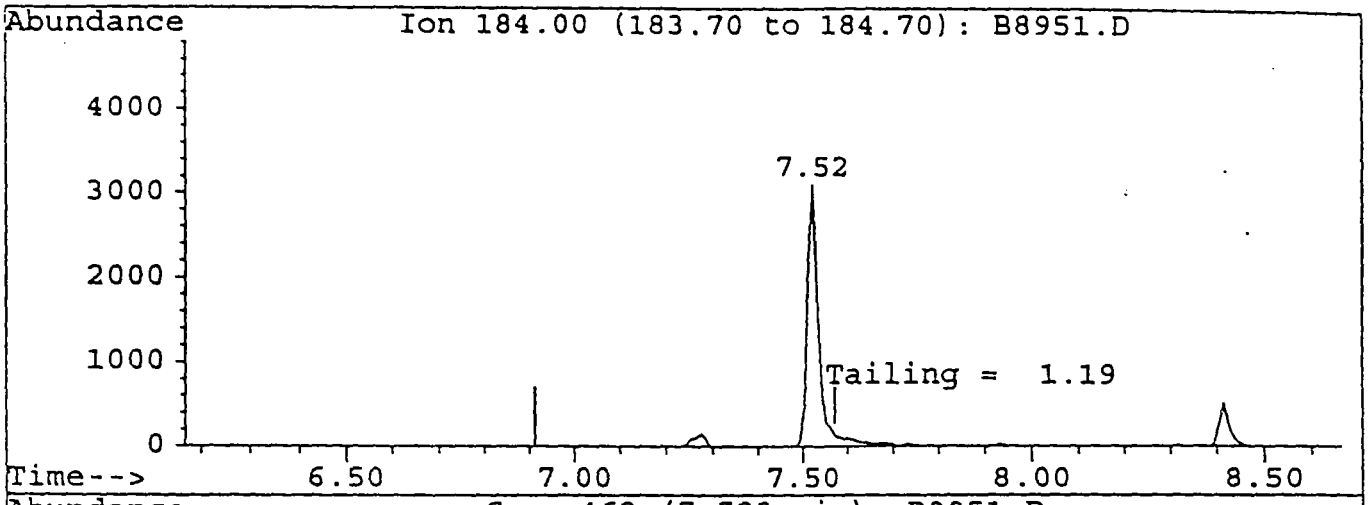
Ion	Exp%	Act%
266.00	100	100
264.00	64.30	67.02
268.00	64.70	64.58
0.00	0.00	0.00

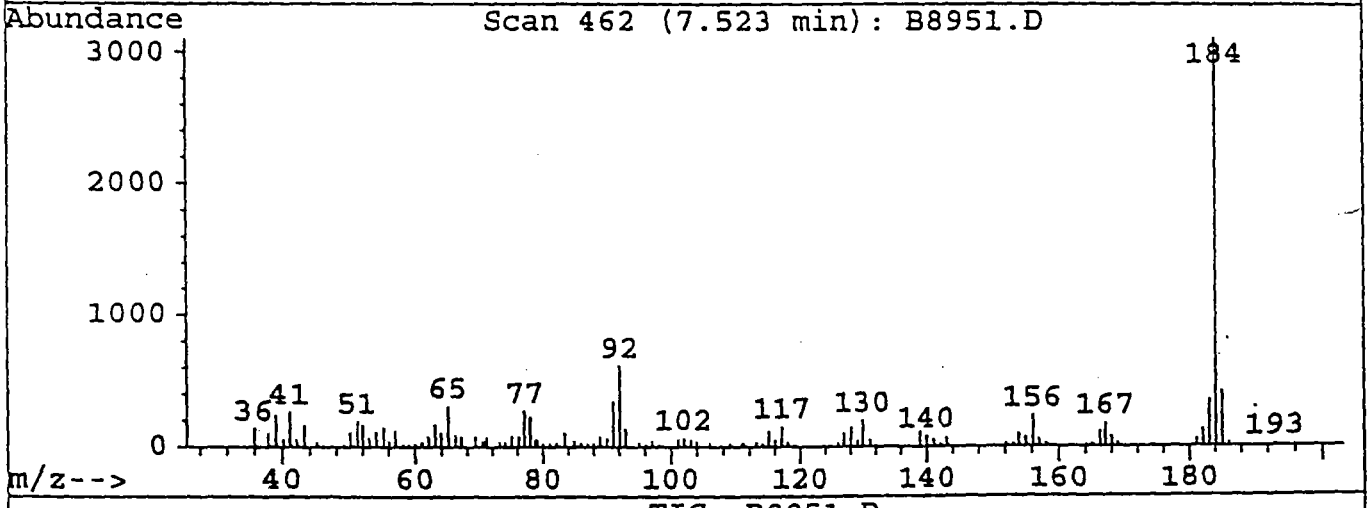
Quantitation Report

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

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 (

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

	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

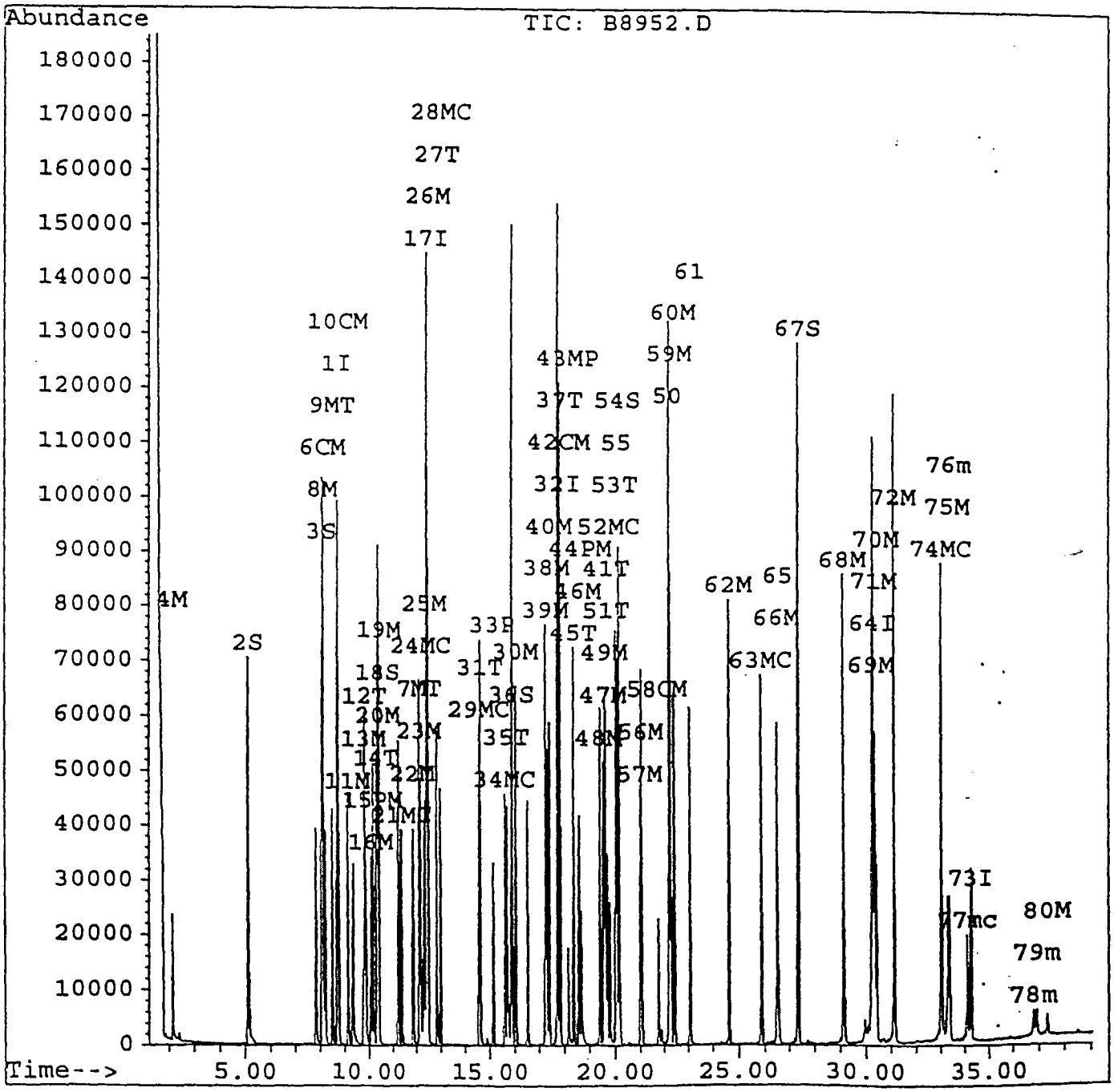
(#) = qualifier out of range (m)

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 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

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

(#)

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

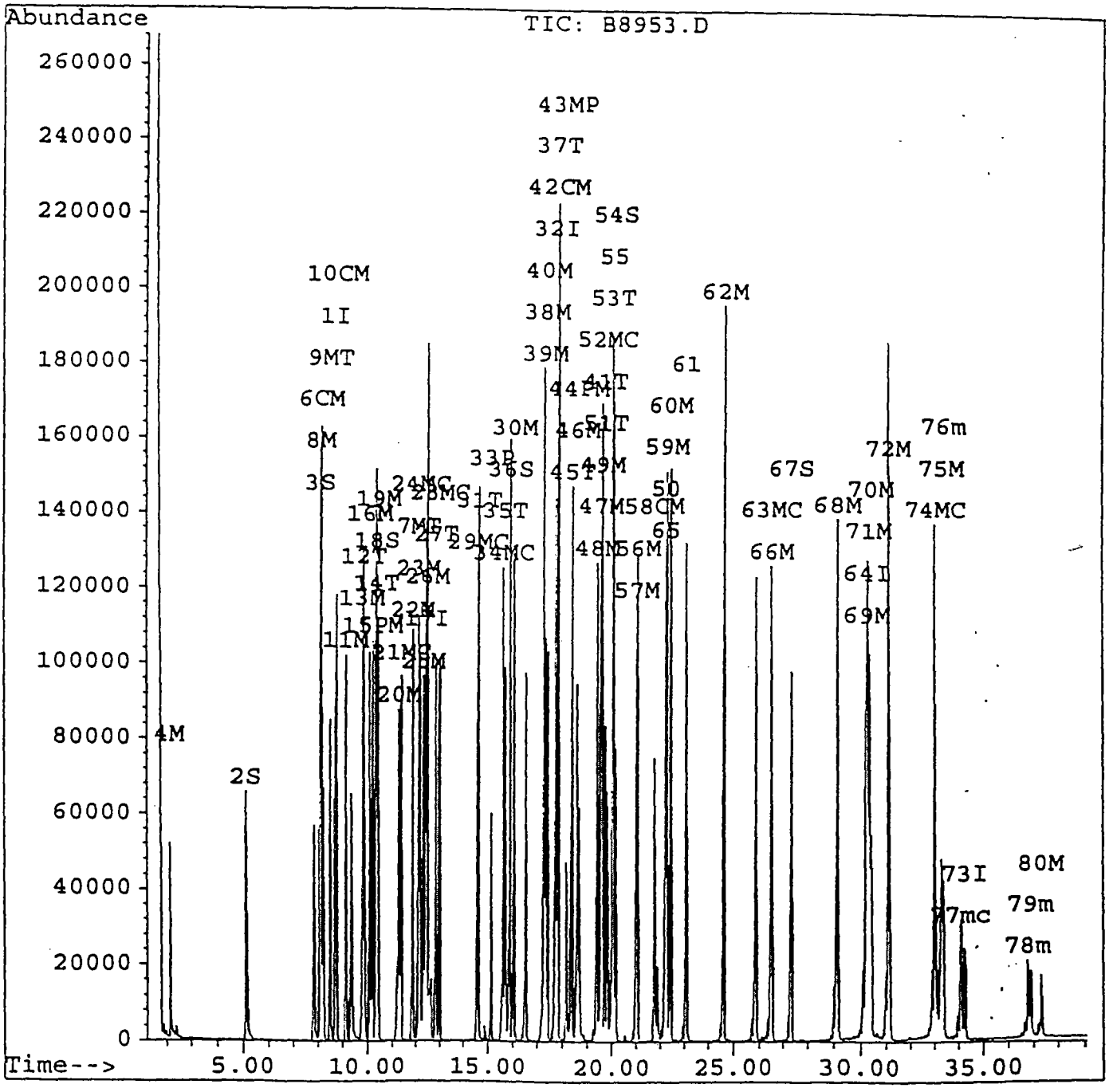
(#) = qualifier out of range (

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 Vial: 4
Acq On : 22 Oct 95 6:42 pm Operator: SCOTTV
Sample : 80 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 25 9:48 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

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

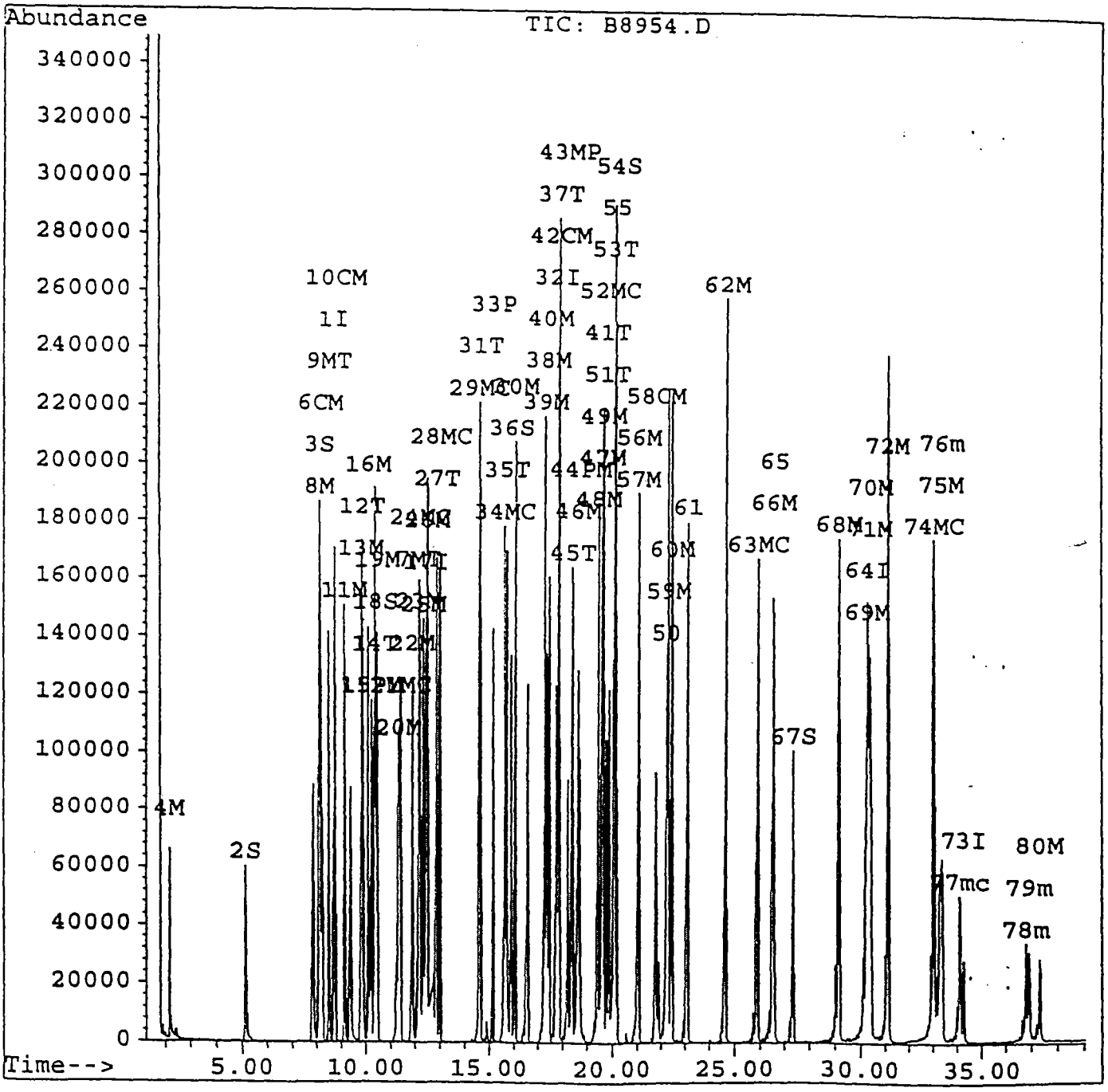
(#) = qualifier out of ran

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

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 Multipl: 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

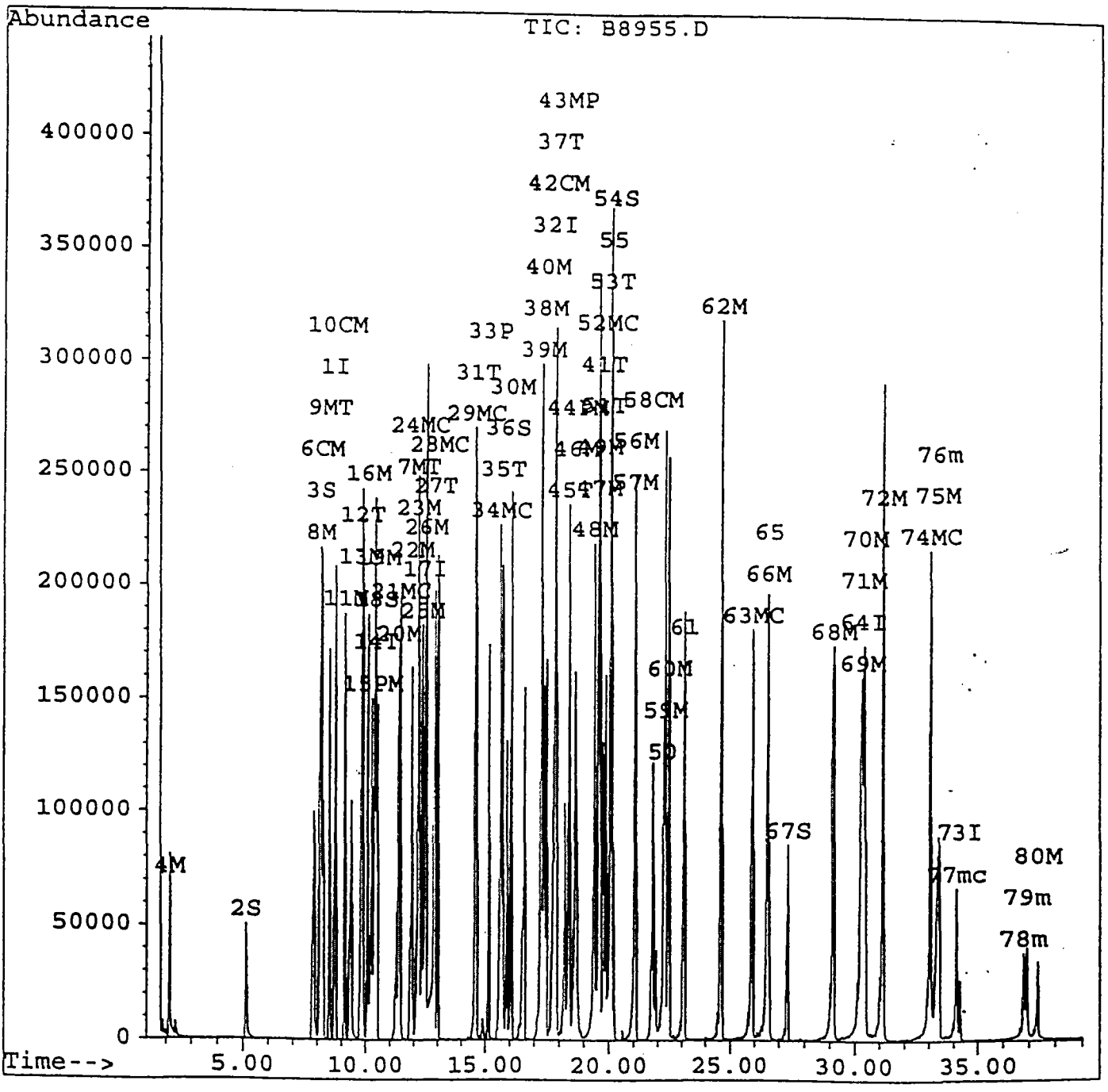
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.90	65	138140	135.05	ug/mL	88
38)	Dimethylphthalate	17.40	163	242759	120.83	ug/mL#	12
39)	Acenaphthylene	17.30	152	342901	122.91	ug/mL	97
40)	2,6-Dinitrotoluene	17.48	165	48493	91.22	ug/mL#	96
41)	3-Nitroaniline	19.78	138	59286	125.11	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

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 : 150 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

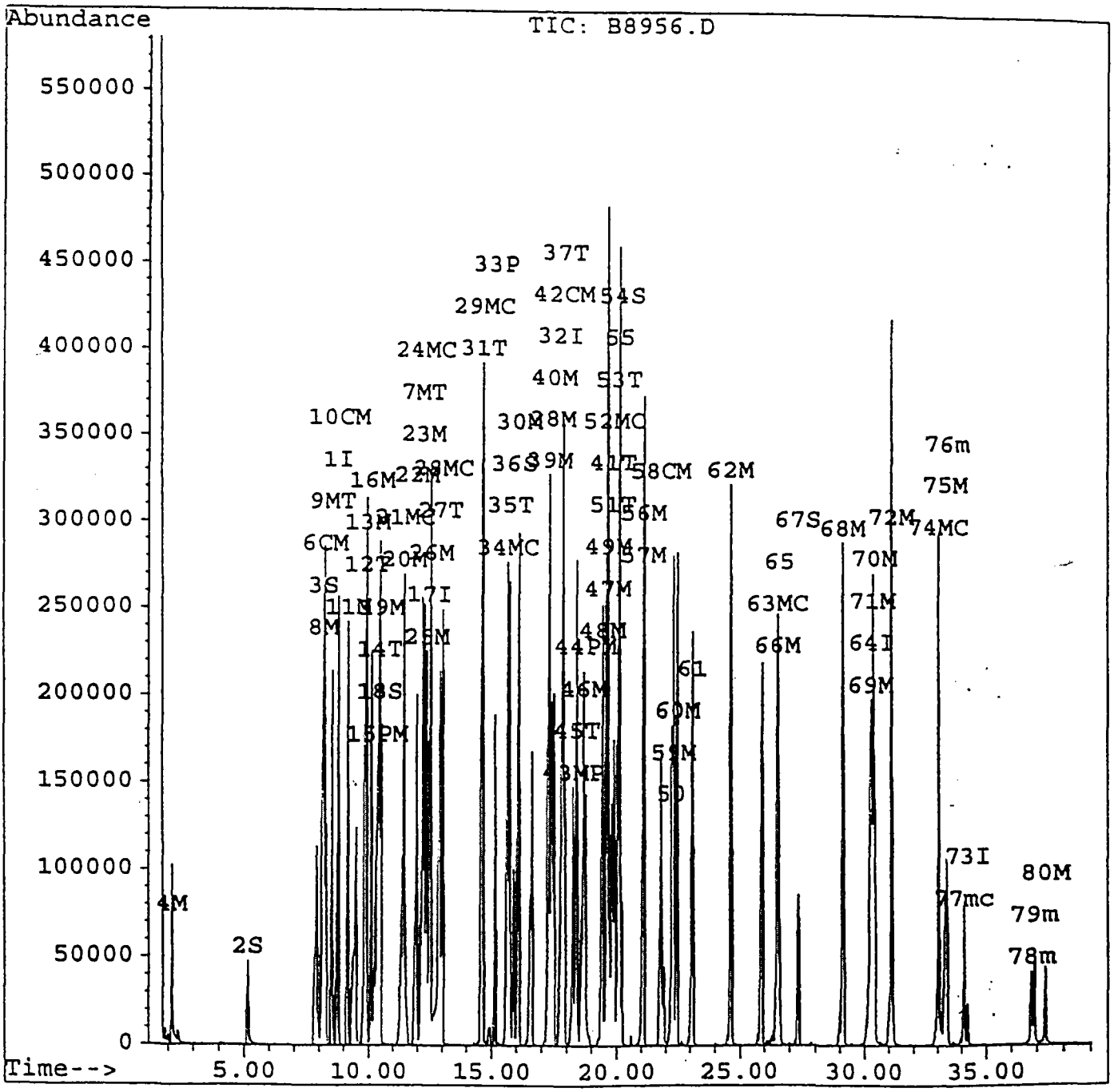
Quantitation Report

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 Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID: B9151.D DFTPP Injection Date: 11/20/95

Instrument ID: ABNA DFTPP Injection Time: 1031

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	69.6
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	25.0 - 75.0% of mass 198	40.6
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100 % relative abundance	100.0
199	5.0 -.9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	17.7
365	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	5.9
442	40.0 - 110.0% of mass 198	40.0
443	15.0 - 24.0% of mass 442	7.5 (18.9)2

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

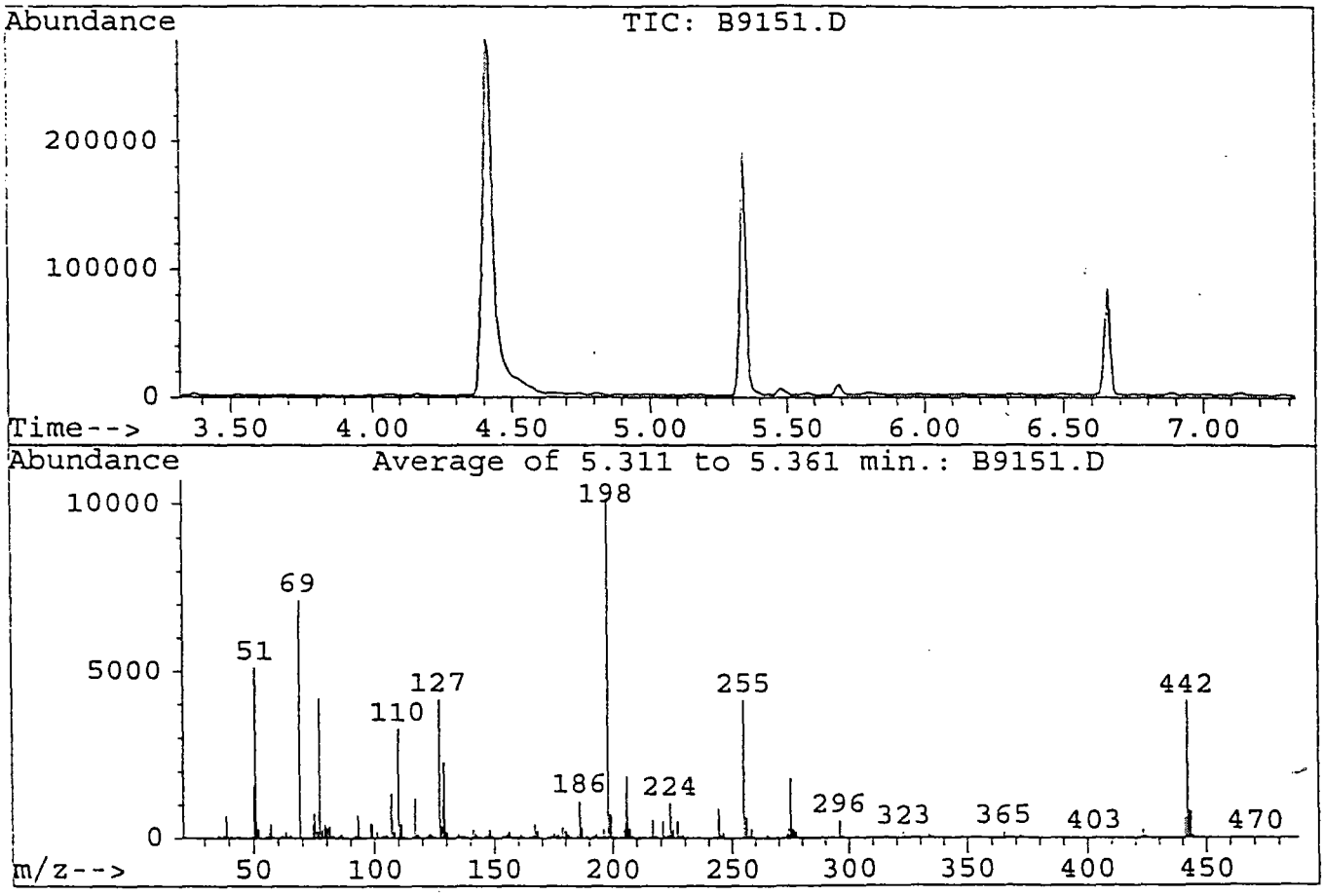
This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	20 STD	B9152.D	11/20/95	1229
02	SSTD050	50 STD	B9153.D	11/20/95	1322
03	SSTD080	80 STD	B9154.D	11/20/95	1414
04	SSTD120	120 STD	B9155.D	11/20/95	1511
05	SSTD160	160 STD	B9156.D	11/20/95	1604
06	SBLK01	BLANK1	B9159.D	11/20/95	1906
07	9552294B	9552294B	B9160.D	11/20/95	1959
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DFTPP

Data File : C:\HPCHEM\1\DATA2\B9151.D Vial: 1
Acq On : 20 Nov 95 10:31 am Operator: SCOTTV
Sample : DFTPP..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00

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



Peak Apex is scan: 232

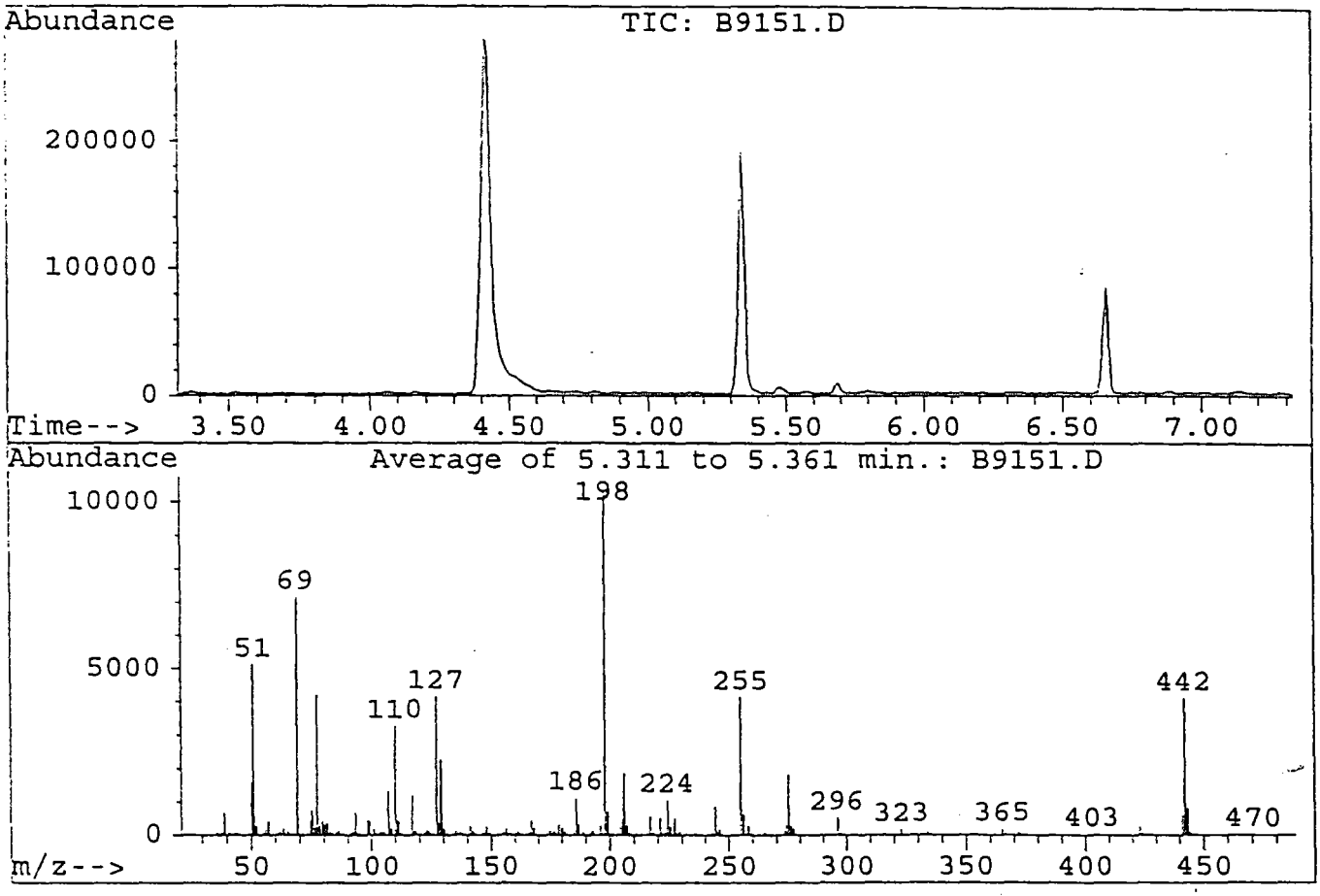
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.9	5113	PASS
68	69	0	2	0.6	43	PASS
69	198	0	100	69.6	7132	PASS
70	69	0	2	0.5	36	PASS
127	198	40	60	40.6	4156	PASS
197	198	0	1	0.3	34	PASS
198	198	100	100	100.0	10248	PASS
199	198	5	9	6.9	707	PASS
275	198	10	30	17.7	1811	PASS
365	198	1	100	1.7	178	PASS
441	443	0	100	78.4	606	PASS
442	198	40	100	40.0	4100	PASS
443	442	17	23	18.9	773	PASS

DFTPP

Data File : C:\HPCHEM\1\DATA2\B9151.D
Acq On : 20 Nov 95 10:31 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: 232

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127	198	40	60	40.6	4156	PASS
197	198	0	1	0.3	34	PASS
198	198	100	100	100.0	10248	PASS
199	198	5	9	6.9	707	PASS
275	198	10	30	17.7	1811	PASS
365	198	1	100	1.7	178	PASS
441	443	0	100	78.4	606	PASS
442	198	40	100	40.0	4100	PASS
443	442	17	23	18.9	773	PASS

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	120	43.05	78	50.00	1553	56.85	6
36.90	32	44.00	61	51.05	5113	57.05	408
37.25	8	44.80	5	52.00	268	57.95	19
37.85	37	45.05	3	52.25	3	58.45	3
38.10	117	47.05	5	52.65	3	58.95	9
39.05	668	47.60	9	53.05	19	59.55	6
40.00	7	47.85	3	53.45	6	59.80	19
40.30	15	48.15	8	53.95	4	60.05	3
40.75	20	48.45	7	55.00	82	60.85	7
41.05	63	49.05	67	55.35	8	61.05	55
41.95	6	49.85	15	55.95	186	61.65	17

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
61.95	91	68.05	43	75.05	781	82.65	4
62.35	9	68.95	7132	76.00	232	82.95	83
63.05	195	70.05	36	77.05	4211	83.55	6
63.25	2	70.85	7	78.00	302	83.85	8
64.10	28	71.00	23	79.00	410	84.10	10
64.45	5	71.55	12	79.85	5	85.05	91
65.05	99	72.05	2	80.05	305	85.20	27
65.75	6	73.00	49	80.45	3	86.00	124
66.30	15	73.45	3	80.65	3	87.05	37
67.10	27	73.85	7	81.00	365	87.90	22
67.65	4	74.00	456	82.10	83	88.85	3

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	106	97.10	18	104.00	123	112.00	64
92.00	101	98.00	455	105.00	102	112.85	8
93.05	696	98.45	8	105.20	9	113.00	14
94.00	43	99.00	388	105.95	18	113.35	4
94.65	3	99.55	6	106.15	5	113.55	5
95.05	38	99.85	6	107.05	1331	114.75	3
95.55	7	100.10	30	108.05	189	115.15	14
95.85	21	101.00	167	108.45	7	115.35	2
95.95	5	102.00	13	108.75	3	116.05	80
96.10	19	103.00	68	110.05	3266	117.05	1191
96.85	18	103.65	5	111.05	423	117.65	4

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.00	90	125.00	57	133.50	5	139.60	3
119.00	18	125.30	11	133.90	75	139.90	8
120.00	20	127.05	4156	135.00	150	140.10	23
120.95	12	128.05	357	136.05	65	140.30	10
121.30	13	129.05	2268	136.60	5	141.00	266
122.00	118	129.75	6	137.00	76	142.00	105
122.65	5	130.00	167	137.60	8	142.80	16
123.05	135	131.00	32	137.90	5	143.00	30
123.35	5	131.90	26	138.00	7	143.60	3
123.75	3	132.85	18	138.15	12	143.80	6
124.00	87	133.30	4	138.95	19	143.90	14

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.10	7	150.20	5	156.70	6	164.00	13
144.85	6	151.00	10	157.05	40	164.20	4
145.15	10	151.25	30	157.95	38	164.80	6
146.05	50	151.70	5	159.00	35	165.00	91
146.95	113	151.90	12	160.00	80	166.00	68
147.70	6	152.50	7	161.00	105	166.90	9
148.00	265	153.00	51	161.65	11	167.05	425
148.80	16	154.00	78	162.05	39	167.40	5
149.05	70	154.80	5	162.90	2	167.60	4
149.70	5	155.05	124	163.20	8	168.00	208
150.00	19	156.10	186	163.60	4	169.05	31

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.30	3	173.05	39	182.05	18	191.10	15
169.70	7	174.00	102	184.00	4	192.00	92
169.95	21	174.80	7	184.15	20	192.30	4
170.10	2	175.10	145	184.80	2	192.85	15
170.30	7	176.05	74	185.05	149	193.05	105
170.70	4	177.00	98	186.10	1117	194.10	7
171.00	11	177.95	26	187.10	307	194.50	3
171.20	3	178.95	317	188.15	30	194.80	3
171.60	3	179.70	3	189.05	98	195.10	13
171.90	11	180.05	218	190.05	13	196.05	282
172.80	9	181.05	102	190.40	3	196.75	34

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
198.00	10248	204.05	270	210.70	2	217.75	7
199.00	707	204.30	4	211.15	82	218.00	73
200.00	49	205.10	475	211.60	17	218.75	6
200.60	4	206.10	1870	212.15	13	218.95	3
200.80	5	207.10	276	212.95	20	219.55	2
201.15	16	207.50	2	214.50	3	220.25	4
201.55	45	208.10	80	215.05	23	221.05	517
202.10	5	209.05	32	215.90	9	221.80	51
202.30	5	209.80	13	216.10	46	223.05	108
203.05	55	210.15	21	216.85	13	224.05	1053
203.80	4	210.50	28	216.95	548	225.05	252

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	18	233.05	2	240.25	3	252.55	8
226.75	7	234.00	29	241.00	25	253.10	10
227.05	507	234.85	13	242.05	35	253.45	5
228.00	79	235.05	19	243.05	60	253.65	5
229.00	104	235.35	5	244.05	857	254.00	23
229.95	10	235.95	44	245.10	112	255.05	4135
230.25	7	236.65	4	246.05	167	256.05	597
231.05	42	237.00	30	247.00	22	256.85	5
232.05	5	237.85	4	247.75	3	257.10	49
232.55	4	239.05	26	249.00	24	258.05	259
232.80	10	239.95	5	252.25	6	259.00	50

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.90	8	265.90	24	275.05	1811	285.55	3
260.95	5	266.90	11	276.00	239	289.15	4
261.15	4	267.65	2	277.10	168	290.15	4
261.65	2	268.45	2	277.65	3	291.15	4
262.75	3	270.15	4	277.95	22	291.45	2
263.85	13	270.85	3	279.35	5	292.05	2
264.15	4	271.20	9	283.05	19	293.00	32
264.65	4	271.55	2	283.35	3	294.95	7
265.05	95	272.05	6	283.65	3	295.25	4
265.45	6	273.05	121	284.10	11	296.05	513
265.65	6	274.05	328	285.15	26	297.00	69

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.65	5	303.50	3	314.05	27	323.10	165
297.95	4	304.10	6	315.05	48	323.80	2
298.25	4	304.40	7	315.30	5	324.10	19
298.75	2	304.70	3	316.05	32	324.90	3
299.75	3	305.60	2	316.70	2	325.10	3
300.65	3	307.85	6	317.00	2	326.30	3
301.60	7	308.10	4	318.10	2	327.10	30
301.85	3	310.10	6	320.60	3	328.00	6
302.05	3	311.90	3	321.00	3	331.40	3
302.55	7	312.20	2	321.70	3	332.00	18
303.10	54	312.95	6	322.10	6	333.05	13

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.30	3	346.10	40	355.90	2	370.90	3
334.05	93	346.60	2	356.55	7	371.30	6
334.50	3	347.90	3	356.80	3	372.15	82
335.05	22	349.40	3	360.50	3	373.10	30
335.90	6	350.70	4	362.80	4	373.65	6
336.90	3	351.10	3	365.05	178	375.20	2
337.50	3	352.00	13	366.10	16	376.20	4
340.30	2	352.15	36	367.70	3	376.80	3
341.20	5	353.10	35	369.60	2	379.10	3
341.50	3	353.60	4	370.10	3	380.40	2
342.30	4	354.05	51	370.50	2	381.30	2

Average of 5.311 to 5.361 min.: B9151.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
382.50	2	390.95	9	404.15	4	419.05	4
383.20	10	391.25	3	404.50	5	420.45	3
383.50	3	391.95	3	407.35	2	421.10	37
384.00	10	395.65	2	408.45	2	421.45	3
384.80	6	396.95	2	412.85	5	421.75	4
385.10	3	399.15	4	413.25	2	422.00	30
386.00	2	401.05	2	414.35	2	423.10	239
389.25	3	401.95	26	415.05	3	424.10	50
389.75	5	402.80	14	416.05	2	430.05	2
390.10	9	403.10	38	417.55	3	434.15	4
390.35	3	403.75	3	417.85	3	436.55	2

Average of 5.311 to 5.361 min.: B9151.D

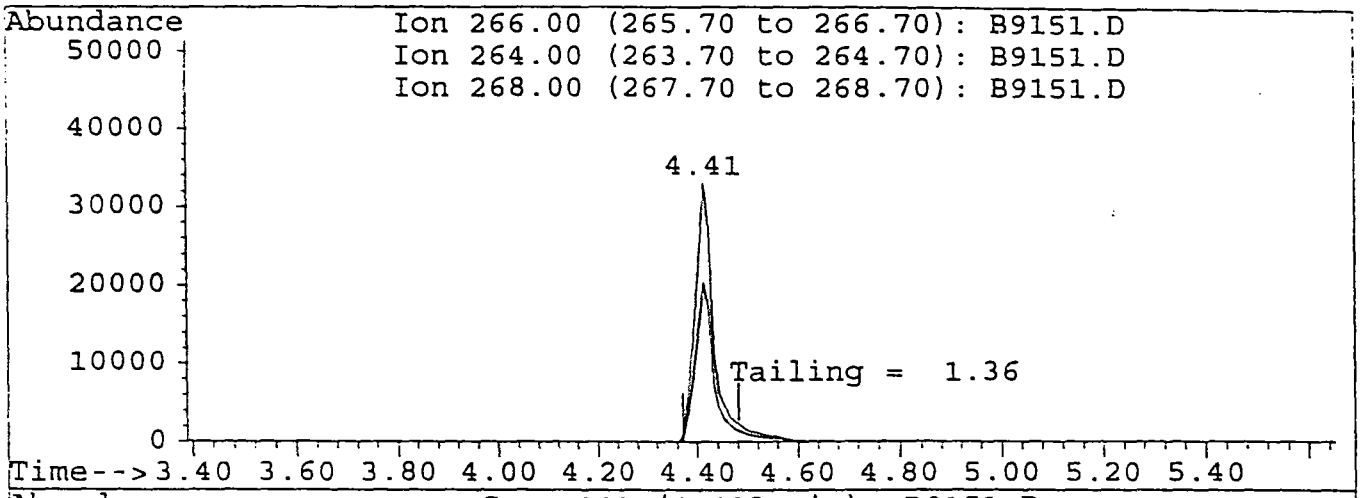
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.75	2	452.55	3	472.55	4		
440.15	5	457.85	3	473.05	4		
441.05	606	459.95	3				
442.05	4100	460.15	3				
443.10	773	461.15	2				
444.10	85	463.15	3				
444.95	4	465.05	2				
447.35	3	468.85	2				
450.75	9	470.15	3				
451.55	5	470.55	5				
452.05	2	471.35	2				

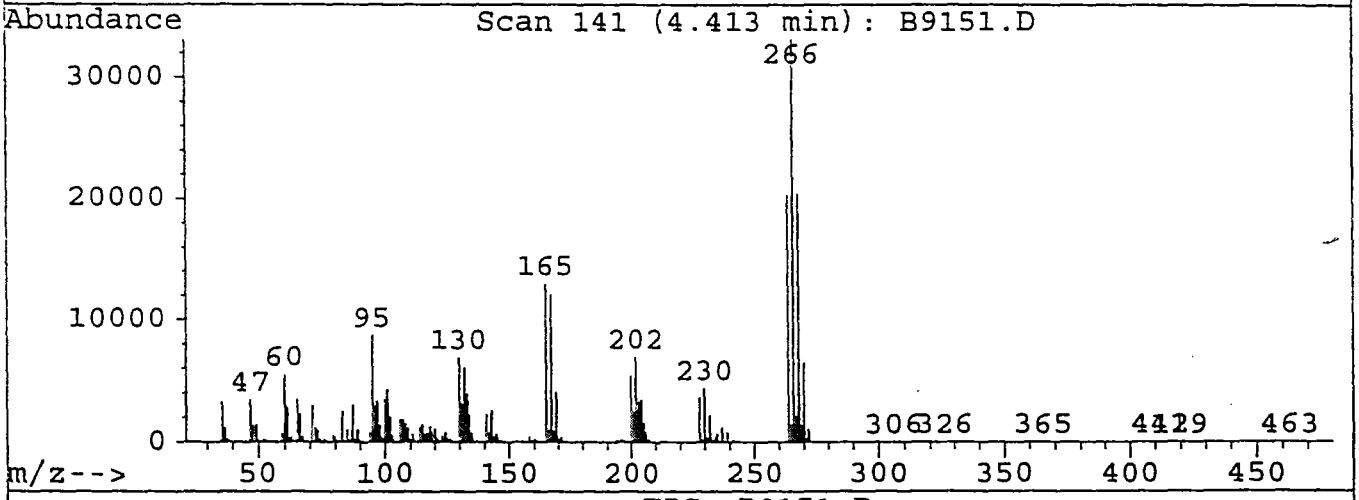
Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9151.D
Acq On : 20 Nov 95 10:31 am
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Nov 20 10:49 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 Oct 25 10:20:51 1995
Response via : Multiple Level Calibration





TIC: B9151.D

(1) Pentachlorophenol (CM)

4.41min 222.79ug/mL

response 73587

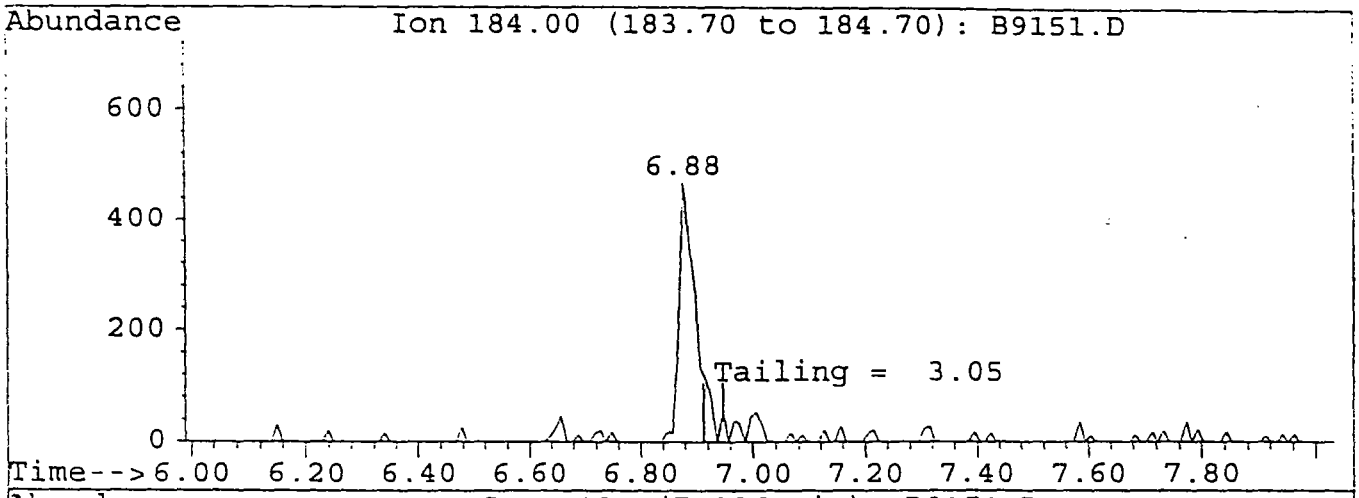
Ion	Exp%	Act%
266.00	100	100
264.00	64.30	61.17
268.00	64.70	61.60
0.00	0.00	0.00

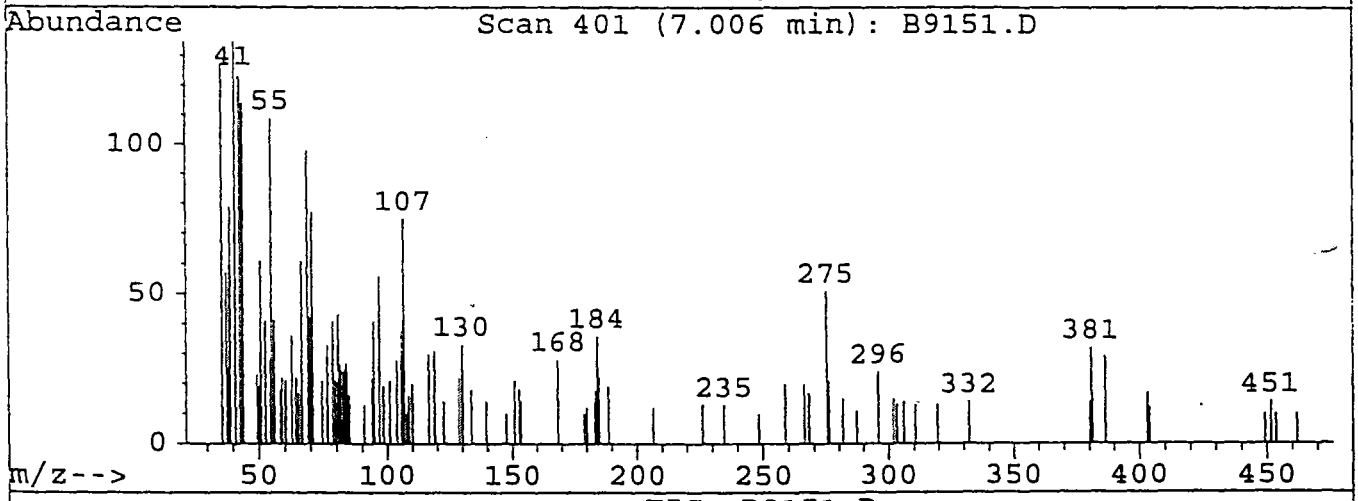
Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9151.D
Acq On : 20 Nov 95 10:31 am
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Nov 20 10:49 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 Oct 25 10:20:51 1995
Response via : Multiple Level Calibration





TIC: B9151.D

(2) Benzidine
7.01min 0.25ug/ml
response 76

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 Nov 22 12:12:16 1995
Response via : Initial Calibration

Calibration Files
160 =B9156.D 120 =B9155.D 80 =B9154.D
50 =B9153.D 20 =B9152.D

		Compound	160	120	80	50	20	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
2)	S	2-Fluorophenol	1.149	1.168	1.181	1.140	1.056	1.139	4.30
3)	S	Phenol-d5	1.977	1.978	1.952	1.867	1.707	1.896	6.06
4)	M	N-nitrosodimethylamin	0.809	0.955	0.814	0.835		0.853	8.06
5)		Pyridine		1.153		1.244	0.907	1.101	15.86
6)	CM	Phenol	1.570	1.774	1.746	1.573	1.582	1.649	6.18
7)	MT	bis(2-Chloroethyl)eth	2.083	2.141	2.231	2.154	2.174	2.157	2.48
8)	M	2-Chlorophenol	1.311	1.315	1.366	1.270	1.248	1.302	3.52
9)	MT	1,3-Dichlorobenzene	1.279	1.317	1.423	1.382	1.364	1.353	4.15
10)	CM	1,4-Dichlorobenzene	1.299	1.335	1.437	1.417	1.358	1.369	4.17
11)	M	1,2-Dichlorobenzene	1.265	1.367	1.444	1.392	1.326	1.359	4.98
12)	T	2-Methylphenol	1.228	1.263	1.204	1.186	1.210	1.218	2.39
13)	M	bis(2-chloroisopropyl	3.004	2.147	2.112	2.072	1.892	2.246	19.38
14)	T	4-Methylphenol	1.293	1.364	1.273	1.273	1.330	1.307	3.03
15)	PM	N-Nitroso-Di-n-propyl	1.485	1.449	1.447	1.345	1.312	1.408	5.32
16)	M	Hexachloroethane	0.799	0.838	0.878	0.841	0.785	0.828	4.46
17)	I	Naphthalene-d8	----------ISTD----------						
18)	S	Nitrobenzene-d5	0.492	0.503	0.501	0.450	0.444	0.478	6.05
19)	M	Nitrobenzene	0.579	0.567	0.603	0.547	0.500	0.559	6.90
20)	M	Isophorone	0.672	0.656	0.913	0.854	0.757	0.770	14.58
21)	MC	2-Nitrophenol	0.218	0.224	0.231	0.208	0.196	0.215	6.44
22)	M	2,4-Dimethylphenol	0.401	0.402	0.405	0.360	0.332	0.380	8.62
23)	M	bis(2-Chloroethoxy)me	0.500	0.509	0.542	0.511	0.521	0.517	3.05
24)	MC	2,4-Dichlorophenol	0.265	0.270	0.290	0.274	0.286	0.277	3.84
25)	M	1,2,4-Trichlorobenzen	0.288	0.303	0.328	0.316	0.329	0.313	5.53
26)	M	Naphthalene	0.932	0.984	0.960	0.959	0.955	0.958	1.93
27)	T	4-Chloroaniline	0.440	0.452	0.466	0.434	0.438	0.446	2.93
28)	MC	Hexachlorobutadiene	0.168	0.175	0.201	0.191	0.202	0.188	8.12
29)	MC	4-Chloro-3-methylphen	0.392	0.421	0.416	0.373	0.384	0.397	5.19
30)	M	2-Chloronaphthalene	0.634	0.707	0.749	0.665	0.708	0.693	6.38
31)	T	2-Methylnaphthalene	0.832	0.905	0.922	0.853	0.683	0.839	11.29
32)	I	Acenaphthene-d10	----------ISTD----------						
33)	P	Hexachlorocyclopentad	0.293	0.272	0.288	0.247	0.241	0.268	8.83
34)	MC	2,4,6-Trichlorophenol	0.372	0.346	0.344	0.311	0.384	0.351	8.12
35)	T	2,4,5-Trichlorophenol	0.346	0.341	0.355	0.357	0.384	0.357	4.76
36)	S	2-Fluorobiphenyl	1.141	1.089	1.028	0.966	1.093	1.063	6.37
37)	T	2-Nitroaniline	0.720	0.709	0.649	0.596	0.578	0.650	9.85
38)	M	Dimethylphthalate	1.336	1.336	1.348	1.314	1.496	1.366	5.39
39)	M	Acenaphthylene	1.516	1.563	1.571	1.641	1.743	1.607	5.49
40)	M	2,6-Dinitrotoluene	0.340	0.324	0.346	0.332	0.338	0.336	2.53
41)	T	3-Nitroaniline	0.332	0.307	0.297	0.331	0.361	0.326	7.66

(#) = Out of Range

Response Factor Report ABNA

Method : C:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:12:16 1995
Response via : Initial Calibration

Calibration Files
160 =B9156.D 120 =B9155.D 80 =B9154.D
50 =B9153.D 20 =B9152.D

		Compound	160	120	80	50	20	Avg	%RSD
42)	CM	Acenaphthene	0.969	1.011	0.999	1.038	1.086	1.020	4.32
43)	MP	2,4-Dinitrophenol	0.213	0.201	0.181	0.135		0.183	18.75
44)	PM	4-Nitrophenol	0.265	0.244	0.231	0.197		0.234	12.20
45)	T	Dibenzofuran	1.278	1.362	1.485	1.435	1.602	1.433	8.57
46)	M	2,4-Dinitrotoluene	0.494	0.468	0.490	0.442	0.414	0.462	7.26
47)	M	Diethylphthalate	1.370	1.342	1.434	1.547	1.798	1.498	12.36
48)	M	Fluorene	1.013	1.072	1.131	1.160	1.246	1.125	7.87
49)	M	4-Chlorophenyl-phenyl	0.444	0.487	0.523	0.536	0.668	0.532	15.83
50)		Phenanthrene-d10	----------ISTD----------						
51)	T	4-Nitroaniline	0.182	0.169	0.165	0.180	0.200	0.179	7.62
52)	MC	4,6-Dinitro-2-methylp	0.148	0.133	0.116	0.126		0.131	10.01
53)	T	n-Nitrosodiphenylamin	0.369	0.401	0.411	0.406	0.532	0.424	14.81
54)	S	2,4,6-Tribromophenol	0.172	0.180	0.173	0.166	0.191	0.176	5.40
55)		1,2-Diphenylhydrazine	1.113	1.118	1.290	1.195	1.250	1.193	6.58
56)	M	4-Bromophenyl-phenyle	0.168	0.191	0.213	0.212	0.262	0.209	16.64
57)	M	Hexachlorobenzene	0.255	0.282	0.296	0.297	0.338	0.294	10.17
58)	CM	Pentachlorophenol	0.195	0.190	0.189	0.155		0.182	10.07
59)	M	Phenanthrene	0.962	0.968	1.041	0.933	1.040	0.989	4.93
60)	M	Anthracene	0.973	0.985	1.021	0.945	1.068	0.998	4.77
61)		Carbazole	0.958	0.971	0.988	0.903	0.939	0.952	3.41
62)	M	Di-n-butylphthalate	1.841	1.773	1.864	1.743	1.930	1.830	4.07
63)	MC	Fluoranthene	1.199	1.070	1.098	1.020	1.074	1.092	6.04
64)	I	Chrysene-d12	----------ISTD----------						
65)		Benzidine	0.088	0.104	0.113	0.160		0.116	26.55
66)	M	Pyrene	1.549	1.656	1.565	1.353	1.284	1.481	10.53
67)	S	Terphenyl-d14	1.237	1.223	1.200	0.953	0.903	1.103	14.62
68)	M	Butylbenzylphthalate	1.100	1.195	1.185	0.947	1.002	1.086	10.12
69)	M	Benzo[a]anthracene	1.326	1.388	1.275	1.166	1.112	1.253	9.06
70)	M	3,3'-Dichlorobenzidin	0.396	0.417	0.388	0.338	0.398	0.387	7.67
71)	M	Chrysene	0.801	0.884	0.963	0.846	1.030	0.905	10.16
72)	M	bis(2-Ethylhexyl)phth	1.402	1.581	1.620	1.371	1.469	1.489	7.30
73)	I	Perylene-d12	----------ISTD----------						
74)	MC	Di-n-octylphthalate	3.439	3.618	5.097	4.812		4.241	19.68
75)	M	Benzo[b]fluoranthene	1.486	1.439	1.979	1.620	1.591	1.623	13.09
76)	m	Benzo[k]fluoranthene	1.061	1.050	1.412	1.195	1.379	1.220	14.02
77)	mc	Benzo[a]pyrene	1.005	0.979	1.197	0.992	0.989	1.032	8.94
78)	m	Indeno[1,2,3-cd]pyren	0.635	0.748	0.839	0.688		0.728	12.03
79)	m	Dibenz[a,h]anthracene	0.632	0.716	0.921	0.583		0.713	20.97
80)	M	Benzo[g,h,i]perylene	0.641	0.793	0.905	0.561		0.725	21.22

(#) = Out of Range

Quantitation Report

Data File : c:\hpchem\1\data2\b9152.d Vial: 2 186
Acq On : 20 Nov 95 12:29 pm Operator: SCOTTV
Sample : 20 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:04 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	19366	40.00	ug/mL	-0.87
17) Naphthalene-d8	11.55	136	80785	40.00	ug/mL	-0.88
32) Acenaphthene-d10	16.81	164	60680	40.00	ug/mL	-0.92
50) Phenanthrene-d10	21.24	188	109687	40.00	ug/ml	-0.99
64) Chrysene-d12	29.21	240	94436	40.00	ug/mL	-1.07
73) Perylene-d12	33.16	264	40655	40.00	ug/mL	-1.08
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.14	112	25564	41.41	ug/mL	41.41%
3) Phenol-d5	7.32	99	41332	41.26	ug/mL	41.26%
18) Nitrobenzene-d5	9.53	82	44810	40.93	ug/mL	40.93%
36) 2-Fluorobiphenyl	15.02	172	82935	44.81	ug/mL	44.81%
54) 2,4,6-Tribromophenol	19.22	330	26134	75.24	ug/mL	75.24%
67) Terphenyl-d14	26.36	244	106635	45.46	ug/mL	45.46%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.68	74	8144	18.95	ug/mlm	100
6) Phenol	7.34	94	15318	16.30	ug/mL	100
7) bis(2-Chloroethyl)ether	11.30	93	21053	18.33	ug/mL	95
8) 2-Chlorophenol	7.24	128	12080	18.72	ug/mL	98
9) 1,3-Dichlorobenzene	7.61	146	13209	19.96	ug/mL	100
10) 1,4-Dichlorobenzene	7.86	146	13150	19.63	ug/mL	99
11) 1,2-Dichlorobenzene	8.24	146	12839	19.68	ug/mL	96
12) 2-Methylphenol	9.05	108	11721	18.93	ug/mLm	96
13) bis(2-chloroisopropyl)ethe	8.97	45	18321	16.94	ug/mL	99
14) 4-Methylphenol	9.55	108	12878	18.97	ug/mL	96
15) N-Nitroso-Di-n-propylamine	9.36	70	12705	17.17	ug/mL	92
16) Hexachloroethane	9.21	117	7598	18.08	ug/mL#	79
19) Nitrobenzene	9.57	77	20210	19.28	ug/mL	93
20) Isophorone	10.40	82	30563	13.74	ug/mL	95
21) 2-Nitrophenol	10.51	139	7899	16.35	ug/mL	89
22) 2,4-Dimethylphenol	11.07	107	13413	17.17	ug/mL#	100
23) bis(2-Chloroethoxy)methane	11.30	93	21053	17.29	ug/mL#	100
24) 2,4-Dichlorophenol	11.34	162	11549	19.36	ug/mL	99
25) 1,2,4-Trichlorobenzene	11.46	180	13274	21.60	ug/mL	94
26) Naphthalene	11.59	128	38588	19.04	ug/mL	100
27) 4-Chloroaniline	12.00	127	17680	18.61	ug/mL	99
28) Hexachlorobutadiene	12.13	225	8178	25.38	ug/mL	97
29) 4-Chloro-3-methylphenol	13.79	107	15510	19.78	ug/mL	93
30) 2-Chloronaphthalene	15.16	162	28609	22.33	ug/ml#	100
31) 2-Methylnaphthalene	13.73	142	27588	15.71	ug/mL	97
33) Hexachlorocyclopentadiene	14.25	237	7301	16.64	ug/mL	97
34) 2,4,6-Trichlorophenol	14.85	196	11665	18.05	ug/mL	97
35) 2,4,5-Trichlorophenol	14.85	196	11665	22.14	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9152.d Vial: 2
Acq On : 20 Nov 95 12:29 pm Operator: SCOTTV
Sample : 20 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:04 1995

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.95	65	17542	14.77	ug/mL	89
38)	Dimethylphthalate	16.46	163	45385	21.87	ug/mL#	11
39)	Acenaphthylene	16.33	152	52878	19.36	ug/mL	97
40)	2,6-Dinitrotoluene	16.54	165	10244	21.96	ug/mL#	96
41)	3-Nitroaniline	18.80	138	10963	21.13	ug/mL	96
42)	Acenaphthene	16.89	153	32947	21.30	ug/mL	99
43)	2,4-Dinitrophenol	17.27	184	3292	10.35	ug/mL	89
44)	4-Nitrophenol	17.87	109	5992	17.33	ug/mL	89
45)	Dibenzofuran	17.45	168	48601	20.88	ug/mL#	87
46)	2,4-Dinitrotoluene	17.68	165	12573	18.32	ug/mL#	1
47)	Diethylphthalate	18.68	149	54555	23.11	ug/mL	96
48)	Fluorene	18.47	166	37810	21.35	ug/mL	98
49)	4-Chlorophenyl-phenylether	18.70	204	20266	26.26	ug/mL#	82
51)	4-Nitroaniline	18.80	138	10963	17.36	ug/mL	96
52)	4,6-Dinitro-2-methylphenol	18.87	198	6263	15.40	ug/mL	100
53)	n-Nitrosodiphenylamine	19.12	169	29203	19.63	ug/mL	94
55)	1,2-Diphenylhydrazine (as	19.16	77	68532	14.01	ug/ml	100
56)	4-Bromophenyl-phenylether	20.13	248	14362	28.00	ug/mL	97
57)	Hexachlorobenzene	20.05	284	18525	28.47	ug/mL	94
58)	Pentachlorophenol	20.80	266	8983	20.16	ug/mL	95
59)	Phenanthrene	21.30	178	57020	19.13	ug/mLm	99
60)	Anthracene	21.45	178	58588	20.01	ug/mL	99
61)	Carbazole	22.13	167	51513	17.65	ug/ml	98
62)	Di-n-butylphthalate	23.71	149	105848	19.19	ug/mL	99
63)	Fluoranthene	24.86	202	58902	19.67	ug/mLm	71
65)	Benzidine	21.24	184	15975	24.74	ug/ml	100
66)	Pyrene	25.48	202	60645	16.05	ug/mL#	81
68)	Butylbenzylphthalate	28.15	149	47305	16.09	ug/mL#	26
69)	Benzo[a]anthracene	29.19	228	52514	15.56	ug/mL	98
70)	3,3'-Dichlorobenzidine	29.41	252	18775	20.60	ug/mL#	94
71)	Chrysene	29.29	228	48650	24.05	ug/mLm	98
72)	bis(2-Ethylhexyl)phthalate	30.16	149	69386	16.47	ug/mL#	23
74)	Di-n-octylphthalate	32.06	149	102182	17.66	ug/mL#	100
75)	Benzo[b]fluoranthene	32.20	252	32331	16.29	ug/mL#	96
76)	Benzo[k]fluoranthene	32.28	252	28031	23.73	ug/mLm	96
77)	Benzo[a]pyrene	32.99	252	20100	18.29	ug/mLm	96
78)	Indeno[1,2,3-cd]pyrene	35.65	276	8011	14.04	ug/mL#	78
79)	Dibenz[a,h]anthracene	35.78	278	7814	14.01	ug/mL	94
80)	Benzo[g,h,i]perylene	36.17	276	7059	13.63	ug/mLm	87

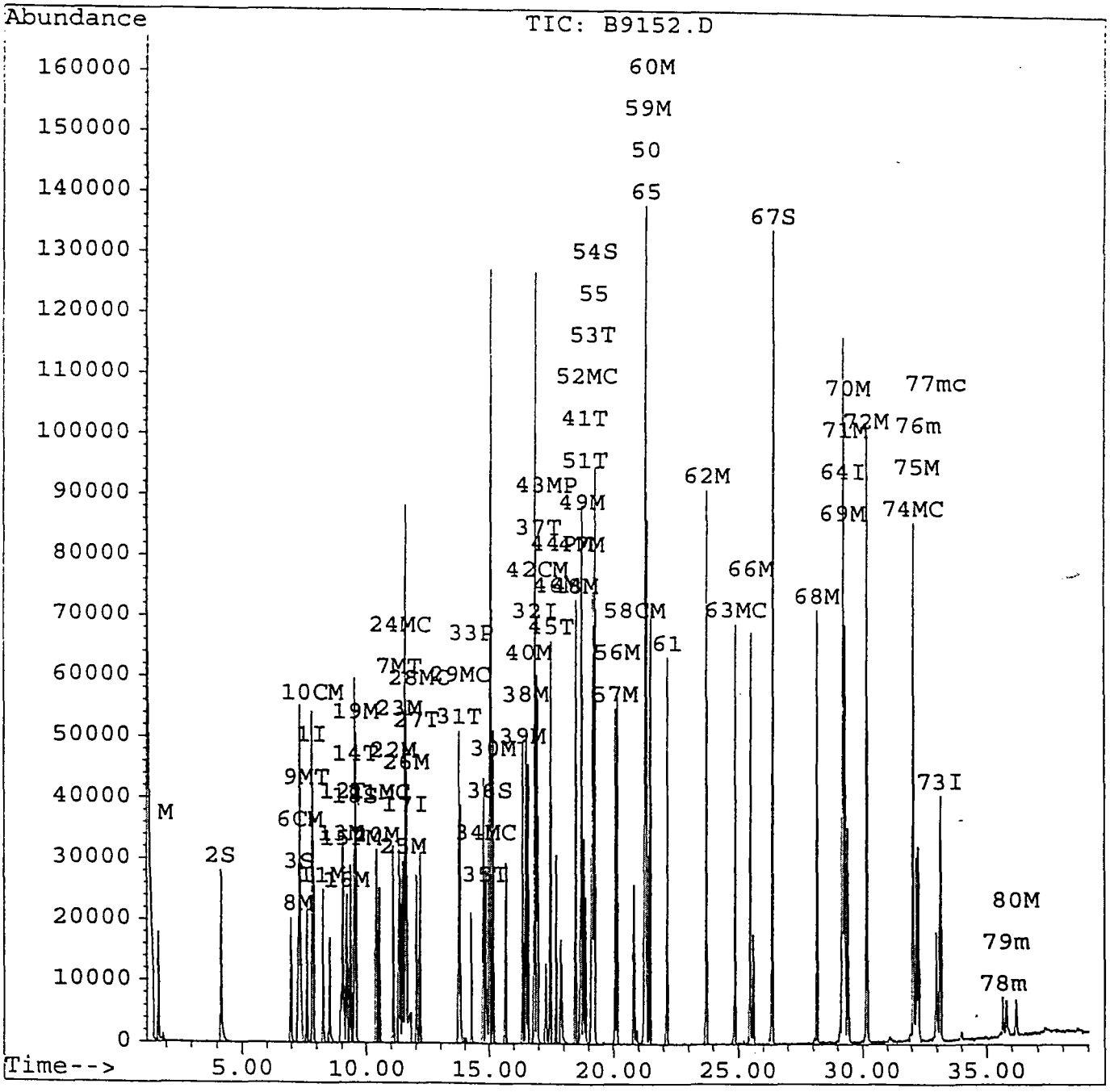
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9152.d
Acq On : 20 Nov 95 12:29 pm
Sample : 20 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:04 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 Nov 22 12:21:54 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9153.d
Acq On : 20 Nov 95 1:22 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:06 1995

Vial: 3
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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	21909	40.00	ug/mL	-0.85
17) Naphthalene-d8	11.58	136	92328	40.00	ug/mL	-0.86
32) Acenaphthene-d10	16.83	164	67130	40.00	ug/mL	-0.90
50) Phenanthrene-d10	21.25	188	123423	40.00	ug/ml	-0.98
64) Chrysene-d12	29.24	240	92844	40.00	ug/mL	-1.04
73) Perylene-d12	33.15	264	30755	40.00	ug/mL	-1.09
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.16	112	31216	44.69	ug/mL	44.69%
3) Phenol-d5	7.34	99	51130	45.12	ug/mL	45.12%
18) Nitrobenzene-d5	9.55	82	51901	41.48	ug/mL	41.48%
36) 2-Fluorobiphenyl	15.04	172	81039	39.58	ug/mL	39.58%
54) 2,4,6-Tribromophenol	19.24	330	25579	65.45	ug/mL	65.45%
67) Terphenyl-d14	26.37	244	110564	47.94	ug/mL	47.94%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.68	74	22873	47.06	ug/mlm	100
6) Phenol	7.38	94	43087	40.53	ug/mL	100
7) bis(2-Chloroethyl)ether	11.34	93	58997	45.40	ug/mL	90
8) 2-Chlorophenol	7.26	128	34772	47.64	ug/mL	96
9) 1,3-Dichlorobenzene	7.63	146	37839	50.53	ug/mL	96
10) 1,4-Dichlorobenzene	7.88	146	38816	51.23	ug/mL	95
11) 1,2-Dichlorobenzene	8.26	146	38125	51.66	ug/mL	99
12) 2-Methylphenol	9.07	108	32481	46.36	ug/mLm	97
13) bis(2-chloroisopropyl)ethe	8.99	45	56748	46.37	ug/mL	98
14) 4-Methylphenol	9.59	108	34858	45.39	ug/mL	97
15) N-Nitroso-Di-n-propylamine	9.40	70	36828	44.01	ug/mL	97
16) Hexachloroethane	9.23	117	23023	48.41	ug/mL#	74
19) Nitrobenzene	9.61	77	63152	52.71	ug/mL	98
20) Isophorone	10.44	82	98532	38.76	ug/mL	94
21) 2-Nitrophenol	10.55	139	24042	43.53	ug/mL	97
22) 2,4-Dimethylphenol	11.11	107	41512	46.50	ug/mL#	100
23) bis(2-Chloroethoxy)methane	11.34	93	58997	42.39	ug/mL#	100
24) 2,4-Dichlorophenol	11.38	162	31594	46.35	ug/mL	96
25) 1,2,4-Trichlorobenzene	11.48	180	36479	51.94	ug/mL	96
26) Naphthalene	11.63	128	110640	47.77	ug/mL	98
27) 4-Chloroaniline	12.04	127	50119	46.15	ug/mL	97
28) Hexachlorobutadiene	12.15	225	22043	59.86	ug/mL	98
29) 4-Chloro-3-methylphenol	13.81	107	43074	48.07	ug/mL#	83
30) 2-Chloronaphthalene	15.18	162	76788	52.45	ug/ml#	100
31) 2-Methylnaphthalene	13.75	142	98486	49.06	ug/mL	97
33) Hexachlorocyclopentadiene	14.27	237	20721	42.68	ug/mL	97
34) 2,4,6-Trichlorophenol	14.77	196	26093	36.50	ug/mL	97
35) 2,4,5-Trichlorophenol	14.87	196	29970	51.42	ug/mL	97

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9153.d Vial: 3
Acq On : 20 Nov 95 1:22 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:06 1995

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

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) 2-Nitroaniline	16.99	65	50018	38.07 ug/mL	93
38) Dimethylphthalate	16.51	163	110296	48.05 ug/mL#	12
39) Acenaphthylene	16.37	152	137726	45.57 ug/mL	99
40) 2,6-Dinitrotoluene	16.58	165	27838	53.93 ug/mL#	95
41) 3-Nitroaniline	18.86	138	27743	48.34 ug/mL	95
42) Acenaphthene	16.93	153	87062	50.87 ug/mL	95
43) 2,4-Dinitrophenol	17.30	184	11345	32.23 ug/mL	96
44) 4-Nitrophenol	17.89	109	16525	43.20 ug/mL#	85
45) Dibenzofuran	17.47	168	120453	46.78 ug/mL	92
46) 2,4-Dinitrotoluene	17.72	165	37128	48.90 ug/mL#	1
47) Diethylphthalate	18.70	149	129774	49.69 ug/mL	95
48) Fluorene	18.49	166	97369	49.70 ug/mL	98
49) 4-Chlorophenyl-phenylether	18.72	204	44994	52.70 ug/mL#	80
51) 4-Nitroaniline	18.86	138	27743	39.05 ug/mL	95
52) 4,6-Dinitro-2-methylphenol	18.94	198	19466	42.54 ug/mL	100
53) n-Nitrosodiphenylamine	19.15	169	62685	37.45 ug/mL	98
55) 1,2-Diphenylhydrazine (as	19.19	77	184330	33.48 ug/ml	100
56) 4-Bromophenyl-phenylether	20.15	248	32649	56.57 ug/mL	92
57) Hexachlorobenzene	20.07	284	45836	62.60 ug/mL#	89
58) Pentachlorophenol	20.82	266	23919	47.70 ug/mL	95
59) Phenanthrene	21.33	178	143981	42.93 ug/mL	99
60) Anthracene	21.48	178	145750	44.25 ug/mL	100
61) Carbazole	22.15	167	139335	42.42 ug/ml	95
62) Di-n-butylphthalate	23.73	149	268835	43.32 ug/mL#	97
63) Fluoranthene	24.89	202	157414	46.71 ug/mLm	78
65) Benzidine	21.27	184	18516	29.17 ug/ml	100
66) Pyrene	25.51	202	157017	42.27 ug/mL#	87
68) Butylbenzylphthalate	28.18	149	109897	38.03 ug/mL#	19
69) Benzo[a]anthracene	29.20	228	135286	40.78 ug/mL	99
70) 3,3'-Dichlorobenzidine	29.42	252	39213	43.76 ug/mL#	98
71) Chrysene	29.30	228	98159	49.36 ug/mLm	99
72) bis(2-Ethylhexyl)phthalate	30.19	149	159156	38.42 ug/mL#	30
74) Di-n-octylphthalate	32.07	149	184983	42.27 ug/mL#	100
75) Benzo[b]fluoranthene	32.21	252	62291	41.49 ug/mL#	94
76) Benzo[k]fluoranthene	32.29	252	45934	51.40 ug/mLm	94
77) Benzo[a]pyrene	33.00	252	38144	45.88 ug/mLm	94
78) Indeno[1,2,3-cd]pyrene	35.66	276	26456	61.30 ug/mLm	80
79) Dibenz[a,h]anthracene	35.79	278	22396	53.09 ug/mL#	93
80) Benzo[g,h,i]perylene	36.18	276	21568	55.05 ug/mL#	89

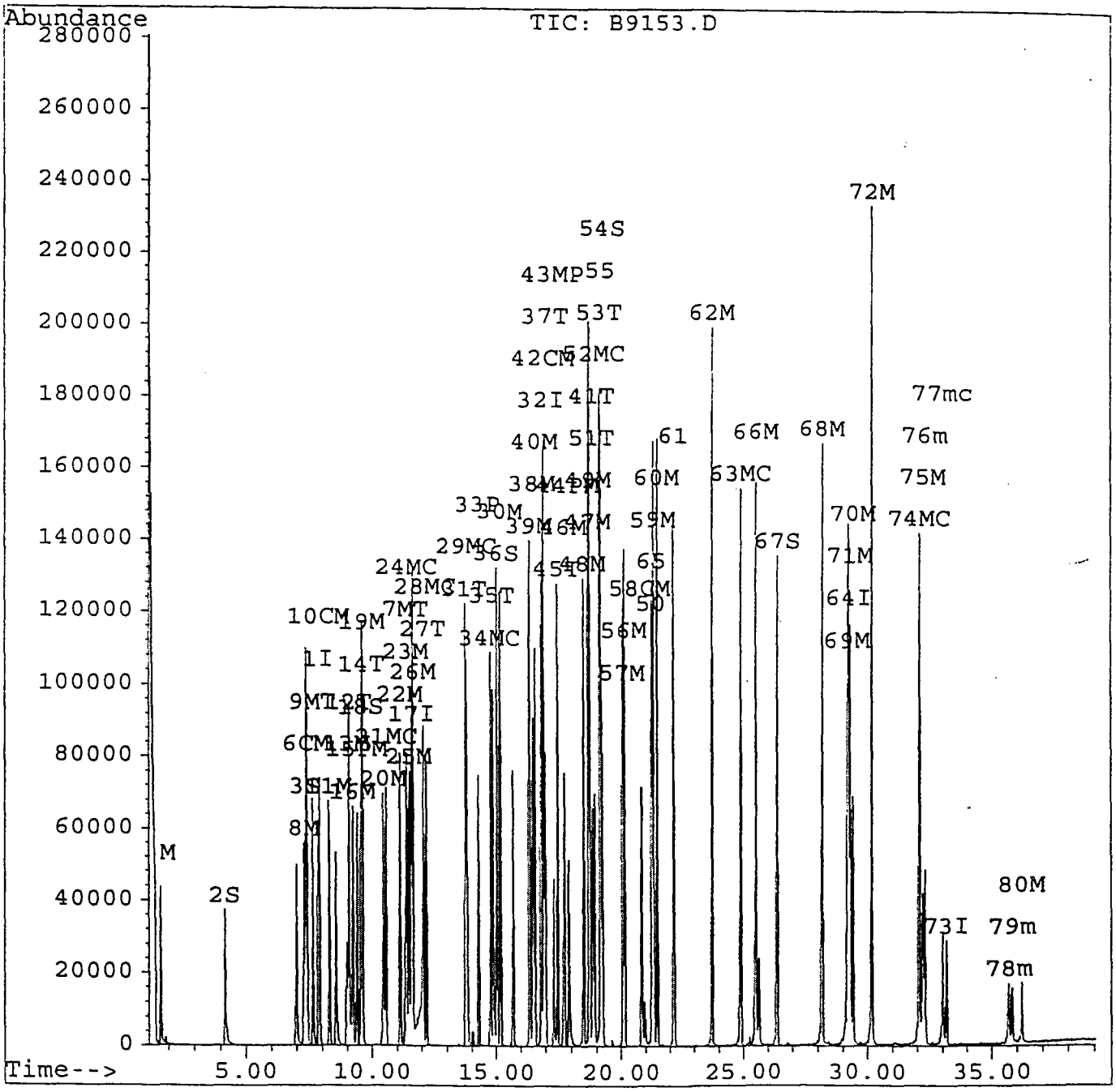
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9153.d
Acq On : 20 Nov 95 1:22 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:06 1995

Vial: 3
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



Quantitation Report

Data File : c:\hpchem\1\data2\b9154.d Vial: 4
Acq On : 20 Nov 95 2:14 pm Operator: SCOTTV
Sample : 80 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:07 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	21149	40.00	ug/mL	-0.85
17) Naphthalene-d8	11.58	136	87105	40.00	ug/mL	-0.85
32) Acenaphthene-d10	16.85	164	65230	40.00	ug/mL	-0.89
50) Phenanthrene-d10	21.26	188	117422	40.00	ug/ml	-0.97
64) Chrysene-d12	29.26	240	78246	40.00	ug/mL	-1.03
73) Perylene-d12	33.15	264	29586	40.00	ug/mL	-1.09
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.17	112	31217	46.30	ug/mL	46.30%
3) Phenol-d5	7.36	99	51615	47.18	ug/mL	47.18%
18) Nitrobenzene-d5	9.56	82	54570	46.23	ug/mL	46.23%
36) 2-Fluorobiphenyl	15.05	172	83814	42.13	ug/mL	42.13%
54) 2,4,6-Tribromophenol	19.26	330	25349	68.18	ug/mL	68.18%
67) Terphenyl-d14	26.37	244	117341	60.37	ug/mL	60.37%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.69	74	34411	73.34	ug/mlm	100
6) Phenol	7.40	94	73852	71.96	ug/mL	100
7) bis(2-Chloroethyl)ether	11.35	93	94368	75.23	ug/mL	96
8) 2-Chlorophenol	7.29	128	57794	82.02	ug/mL	91
9) 1,3-Dichlorobenzene	7.63	146	60192	83.27	ug/mL	100
10) 1,4-Dichlorobenzene	7.90	146	60774	83.09	ug/mL	97
11) 1,2-Dichlorobenzene	8.29	146	61063	85.72	ug/mL	95
12) 2-Methylphenol	9.10	108	50920	75.29	ug/mLm	100
13) bis(2-chloroisopropyl)ethe	9.00	45	89347	75.63	ug/mL	96
14) 4-Methylphenol	9.62	108	53851	72.64	ug/mL	100
15) N-Nitroso-Di-n-propylamine	9.45	70	61188	75.74	ug/mL#	94
16) Hexachloroethane	9.23	117	37125	80.87	ug/mL#	75
19) Nitrobenzene	9.64	77	105018	92.90	ug/mL	97
20) Isophorone	10.49	82	159088	66.33	ug/mL	97
21) 2-Nitrophenol	10.56	139	40246	77.24	ug/mL	91
22) 2,4-Dimethylphenol	11.14	107	70519	83.74	ug/mL#	100
23) bis(2-Chloroethoxy)methane	11.35	93	94368	71.87	ug/mL#	100
24) 2,4-Dichlorophenol	11.41	162	50454	78.45	ug/mL	95
25) 1,2,4-Trichlorobenzene	11.49	180	57084	86.14	ug/mL	96
26) Naphthalene	11.64	128	167173	76.51	ug/mL	100
27) 4-Chloroaniline	12.07	127	81200	79.26	ug/mL	98
28) Hexachlorobutadiene	12.18	225	34993	100.72	ug/mL	98
29) 4-Chloro-3-methylphenol	13.82	107	72479	85.73	ug/mL	89
30) 2-Chloronaphthalene	15.19	162	130435	94.44	ug/ml#	100
31) 2-Methylnaphthalene	13.76	142	160669	84.83	ug/mL	99
33) Hexachlorocyclopentadiene	14.28	237	37611	79.73	ug/mL#	97
34) 2,4,6-Trichlorophenol	14.78	196	44855	64.57	ug/mL	98
35) 2,4,5-Trichlorophenol	14.88	196	46266	81.69	ug/mL	96

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9154.d Vial: 4
Acq On : 20 Nov 95 2:14 pm Operator: SCOTTV
Sample : 80 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:07 1995

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.02	65	84624	66.28	ug/mL	89
38)	Dimethylphthalate	16.54	163	175842	78.83	ug/mL#	12
39)	Acenaphthylene	16.38	152	205000	69.80	ug/mL	99
40)	2,6-Dinitrotoluene	16.61	165	45185	90.09	ug/mL#	99
41)	3-Nitroaniline	18.91	138	38767	69.52	ug/mL	98
42)	Acenaphthene	16.94	153	130279	78.33	ug/mL	99
43)	2,4-Dinitrophenol	17.35	184	23597	69.00	ug/mL#	81
44)	4-Nitrophenol	17.91	109	30181	81.21	ug/mL	84
45)	Dibenzofuran	17.50	168	193762	77.44	ug/mL	88
46)	2,4-Dinitrotoluene	17.75	165	63886	86.58	ug/mL#	1
47)	Diethylphthalate	18.74	149	187094	73.73	ug/mL	95
48)	Fluorene	18.52	166	147613	77.55	ug/mL	96
49)	4-Chlorophenyl-phenylether	18.74	204	68166	82.17	ug/mL#	83
51)	4-Nitroaniline	18.91	138	38767	57.36	ug/mL	98
52)	4,6-Dinitro-2-methylphenol	18.97	198	27346	62.82	ug/mL	100
53)	n-Nitrosodiphenylamine	19.18	169	96556	60.63	ug/mL	97
55)	1,2-Diphenylhydrazine (as	19.20	77	303006	57.85	ug/ml	100
56)	4-Bromophenyl-phenylether	20.16	248	49920	90.92	ug/mL	93
57)	Hexachlorobenzene	20.11	284	69411	99.65	ug/mL#	80
58)	Pentachlorophenol	20.86	266	44474	93.22	ug/mL	100
59)	Phenanthrene	21.34	178	244369	76.58	ug/mLm	98
60)	Anthracene	21.49	178	239679	76.48	ug/mL	98
61)	Carbazole	22.17	167	231960	74.22	ug/ml	95
62)	Di-n-butylphthalate	23.75	149	437710	74.14	ug/mL#	97
63)	Fluoranthene	24.90	202	257785	80.40	ug/mLm	79
65)	Benzidine	21.26	184	17684	33.05	ug/ml	100
66)	Pyrene	25.52	202	244857	78.22	ug/mL#	89
68)	Butylbenzylphthalate	28.20	149	185366	76.11	ug/mL#	18
69)	Benzo[a]anthracene	29.22	228	199585	71.39	ug/mL	100
70)	3,3'-Dichlorobenzidine	29.42	252	60675	80.35	ug/mL#	94
71)	Chrysene	29.32	228	150741	89.95	ug/mLm	100
72)	bis(2-Ethylhexyl)phthalate	30.19	149	253443	72.60	ug/mL#	24
74)	Di-n-octylphthalate	32.07	149	301609	71.64	ug/mL#	100
75)	Benzo[b]fluoranthene	32.21	252	117097	81.08	ug/mL#	94
76)	Benzo[k]fluoranthene	32.31	252	83571	97.21	ug/mLm	94
77)	Benzo[a]pyrene	33.00	252	70806	88.54	ug/mLm	93
78)	Indeno[1,2,3-cd]pyrene	35.66	276	49674	119.65	ug/mLm	71
79)	Dibenz[a,h]anthracene	35.79	278	54514	134.34	ug/mL	93
80)	Benzo[g,h,i]perylene	36.20	276	53556	142.09	ug/mL#	83

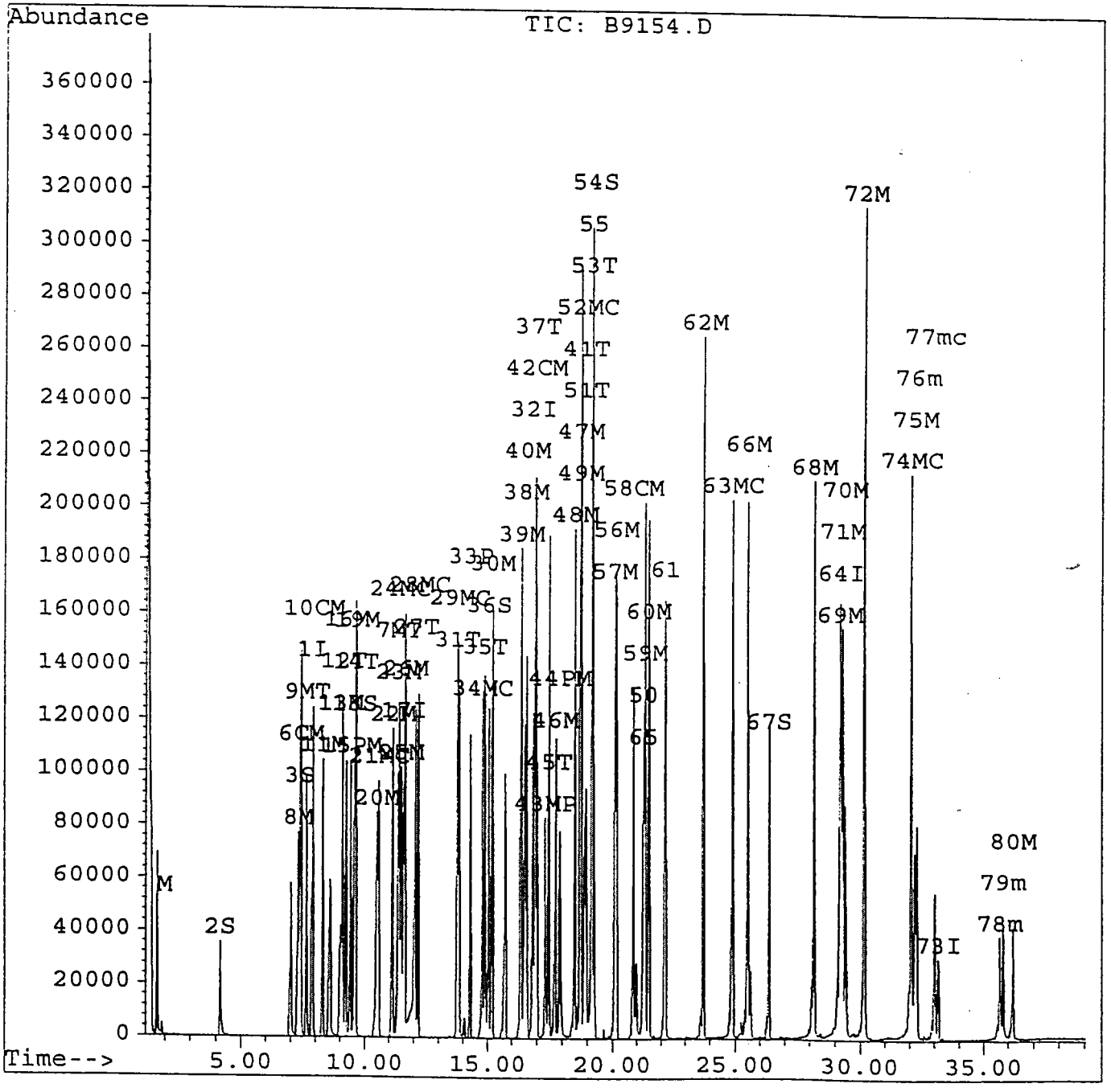
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9154.d
Acq On : 20 Nov 95 2:14 pm
Sample : 80 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:07 1995

Vial: 4
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



b9154.d BNACLP.M

Quantitation Report

Data File : c:\hpchem\1\data2\b9155.d Vial: 5
Acq On : 20 Nov 95 3:11 pm Operator: SCOTTV
Sample : 120 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:18 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	21393	40.00	ug/mL	-0.83
17) Naphthalene-d8	11.60	136	89884	40.00	ug/mL	-0.83
32) Acenaphthene-d10	16.86	164	68594	40.00	ug/mL	-0.87
50) Phenanthrene-d10	21.28	188	124831	40.00	ug/ml	-0.95
64) Chrysene-d12	29.28	240	80803	40.00	ug/mL	-1.01
73) Perylene-d12	33.17	264	40378	40.00	ug/mL	-1.07
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.18	112	31242	45.81	ug/mL	45.81%
3) Phenol-d5	7.38	99	52903	47.81	ug/mL	47.81%
18) Nitrobenzene-d5	9.60	82	56558	46.43	ug/mL	46.43%
36) 2-Fluorobiphenyl	15.07	172	93337	44.61	ug/mL	44.61%
54) 2,4,6-Tribromophenol	19.30	330	28016	70.88	ug/mL	70.88%
67) Terphenyl-d14	26.37	244	123504	61.53	ug/mL	61.53%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.70	74	61263	129.08	ug/mlm	100
6) Phenol	7.44	94	113845	109.67	ug/mL	100
7) bis(2-Chloroethyl)ether	11.39	93	137382	108.27	ug/mL	90
8) 2-Chlorophenol	7.30	128	84421	118.44	ug/mL	94
9) 1,3-Dichlorobenzene	7.65	146	84510	115.58	ug/mL	96
10) 1,4-Dichlorobenzene	7.92	146	85696	115.82	ug/mL	99
11) 1,2-Dichlorobenzene	8.29	146	87755	121.79	ug/mL	99
12) 2-Methylphenol	9.13	108	81052	118.48	ug/mLm	100
13) bis(2-chloroisopropyl)ethe	9.02	45	137800	115.32	ug/mL	97
14) 4-Methylphenol	9.67	108	87534	116.73	ug/mL	100
15) N-Nitroso-Di-n-propylamine	9.48	70	93023	113.83	ug/mL	98
16) Hexachloroethane	9.23	117	53808	115.88	ug/mL	85
19) Nitrobenzene	9.65	77	153016	131.18	ug/mL	95
20) Isophorone	10.56	82	176763	71.42	ug/mL#	93
21) 2-Nitrophenol	10.60	139	60412	112.37	ug/mL	96
22) 2,4-Dimethylphenol	11.18	107	108531	124.89	ug/mL#	100
23) bis(2-Chloroethoxy)methane	11.39	93	137382	101.39	ug/mL#	100
24) 2,4-Dichlorophenol	11.45	162	72744	109.61	ug/mL	95
25) 1,2,4-Trichlorobenzene	11.50	180	81586	119.31	ug/mL	93
26) Naphthalene	11.68	128	265432	117.73	ug/mL	99
27) 4-Chloroaniline	12.08	127	121913	115.32	ug/mL	96
28) Hexachlorobutadiene	12.18	225	47234	131.75	ug/mL	99
29) 4-Chloro-3-methylphenol	13.86	107	113540	130.15	ug/mL#	83
30) 2-Chloronaphthalene	15.21	162	190634	133.76	ug/ml#	100
31) 2-Methylnaphthalene	13.78	142	244141	124.92	ug/mL	97
33) Hexachlorocyclopentadiene	14.30	237	55971	112.83	ug/mL	98
34) 2,4,6-Trichlorophenol	14.80	196	71133	97.38	ug/mL	95
35) 2,4,5-Trichlorophenol	14.90	196	70146	117.78	ug/mL	96

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9155.d
Acq On : 20 Nov 95 3:11 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:18 1995

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

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:21:54 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.08	65	145818	108.61	ug/mL	85
38)	Dimethylphthalate	16.57	163	274872	117.18	ug/mL#	12
39)	Acenaphthylene	16.40	152	321563	104.12	ug/mL	99
40)	2,6-Dinitrotoluene	16.65	165	66698	126.46	ug/mL#	96
41)	3-Nitroaniline	18.97	138	63194	107.76	ug/mL	97
42)	Acenaphthene	16.96	153	208073	118.97	ug/mL	99
43)	2,4-Dinitrophenol	17.40	184	41392	115.10	ug/mL#	70
44)	4-Nitrophenol	17.96	109	50217	128.49	ug/mL#	88
45)	Dibenzofuran	17.52	168	280201	106.49	ug/mL#	87
46)	2,4-Dinitrotoluene	17.81	165	96403	124.25	ug/mL#	1
47)	Diethylphthalate	18.77	149	276218	103.51	ug/mL#	93
48)	Fluorene	18.54	166	220505	110.16	ug/mL	95
49)	4-Chlorophenyl-phenylether	18.75	204	100302	114.98	ug/mL#	80
51)	4-Nitroaniline	18.97	138	63194	87.95	ug/mL	97
52)	4,6-Dinitro-2-methylphenol	19.03	198	49923	107.88	ug/mL	100
53)	n-Nitrosodiphenylamine	19.22	169	150343	88.80	ug/mL	99
55)	1,2-Diphenylhydrazine (as	19.24	77	418716	75.19	ug/ml	100
56)	4-Bromophenyl-phenylether	20.18	248	71656	122.76	ug/mL	93
57)	Hexachlorobenzene	20.12	284	105667	142.69	ug/mL#	76
58)	Pentachlorophenol	20.88	266	71152	140.28	ug/mL	99
59)	Phenanthrene	21.38	178	362651	106.91	ug/mL	99
60)	Anthracene	21.53	178	368967	110.75	ug/mL	99
61)	Carbazole	22.19	167	363617	109.44	ug/ml	94
62)	Di-n-butylphthalate	23.75	149	663866	105.77	ug/mL	98
63)	Fluoranthene	24.92	202	400665	117.55	ug/mLm	72
65)	Benzidine	21.28	184	25272	45.74	ug/mlm	100
66)	Pyrene	25.54	202	401509	124.20	ug/mL#	83
68)	Butylbenzylphthalate	28.20	149	289743	115.20	ug/mL#	18
69)	Benzo[a]anthracene	29.24	228	336557	116.57	ug/mL	98
70)	3,3'-Dichlorobenzidine	29.43	252	101174	129.73	ug/mL#	96
71)	Chrysene	29.34	228	214314	123.84	ug/mLm	98
72)	bis(2-Ethylhexyl)phthalate	30.19	149	383155	106.29	ug/mL#	22
74)	Di-n-octylphthalate	32.07	149	438231	76.28	ug/mL#	100
75)	Benzo[b]fluoranthene	32.25	252	174291	88.43	ug/mL#	92
76)	Benzo[k]fluoranthene	32.33	252	127243	108.45	ug/mLm	92
77)	Benzo[a]pyrene	33.02	252	118613	108.67	ug/mLm	92
78)	Indeno[1,2,3-cd]pyrene	35.68	276	90641	159.97	ug/mLm	70
79)	Dibenz[a,h]anthracene	35.81	278	86714	156.58	ug/mL	93
80)	Benzo[g,h,i]perylene	36.22	276	96038	186.69	ug/mL#	83

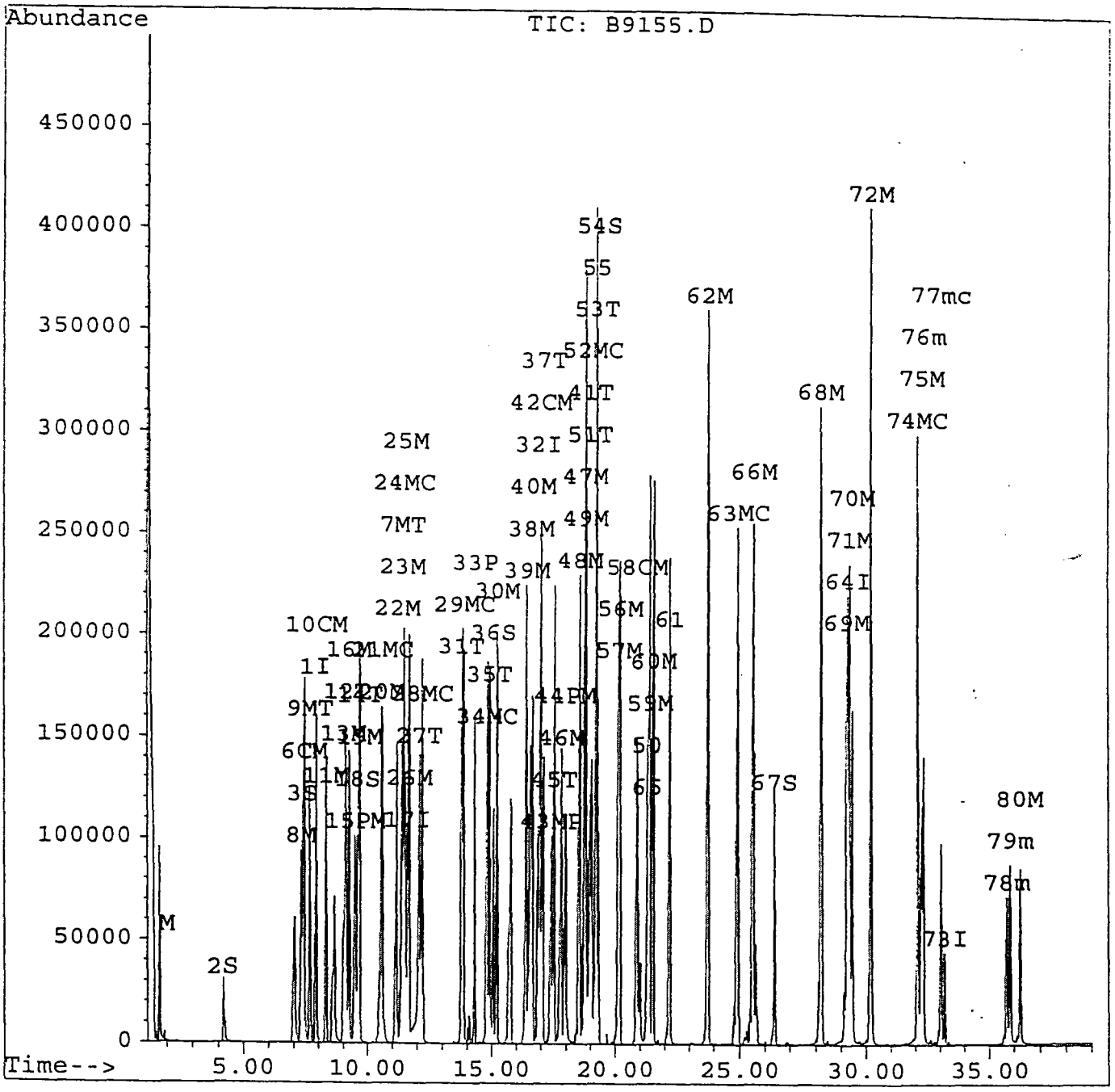
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9155.d
Acq On : 20 Nov 95 3:11 pm
Sample : 120 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:18 1995

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

Method : c:\HPCHEM\1\METHODS\BNACLP.M
Title : CLP BNA Calibration
Last Update : Wed Nov 22 12:21:54 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data2\b9156.d Vial: 6
Acq On : 20 Nov 95 4:04 pm Operator: SCOTTV
Sample : 160 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:21 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	22101	40.00	ug/mL	-0.83
17) Naphthalene-d8	11.62	136	92020	40.00	ug/mL	-0.81
32) Acenaphthene-d10	16.87	164	64329	40.00	ug/mL	-0.87
50) Phenanthrene-d10	21.30	188	117328	40.00	ug/ml	-0.93
64) Chrysene-d12	29.28	240	89266	40.00	ug/mL	-1.00
73) Perylene-d12	33.18	264	45167	40.00	ug/mL	-1.06
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	4.20	112	31739	45.05	ug/mL	45.05%
3) Phenol-d5	7.42	99	54612	47.77	ug/mL	47.77%
18) Nitrobenzene-d5	9.62	82	56583	45.37	ug/mL	45.37%
36) 2-Fluorobiphenyl	15.07	172	91744	46.76	ug/mL	46.76%
54) 2,4,6-Tribromophenol	19.32	330	25154	67.71	ug/mL	67.71%
67) Terphenyl-d14	26.37	244	137972	62.22	ug/mL	62.22%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.70	74	71477	145.77	ug/mlm	100
6) Phenol	7.46	94	138751	129.38	ug/mL	100
7) bis(2-Chloroethyl)ether	11.41	93	184172	140.49	ug/mL	89
8) 2-Chlorophenol	7.32	128	115858	157.34	ug/mL	94
9) 1,3-Dichlorobenzene	7.67	146	113094	149.72	ug/mL	97
10) 1,4-Dichlorobenzene	7.92	146	114850	150.25	ug/mL	98
11) 1,2-Dichlorobenzene	8.30	146	111815	150.20	ug/mL	97
12) 2-Methylphenol	9.15	108	108583	153.64	ug/mL	68
13) bis(2-chloroisopropyl)ethe	9.02	45	265566	215.12	ug/mL#	95
14) 4-Methylphenol	9.71	108	114296	147.53	ug/mL	98
15) N-Nitroso-Di-n-propylamine	9.54	70	131314	155.54	ug/mL#	98
16) Hexachloroethane	9.25	117	70643	147.26	ug/mL#	80
19) Nitrobenzene	9.69	77	212977	178.35	ug/mL	90
20) Isophorone	10.62	82	247293	97.60	ug/mL#	93
21) 2-Nitrophenol	10.62	139	80291	145.87	ug/mL	99
22) 2,4-Dimethylphenol	11.22	107	147781	166.11	ug/mL#	100
23) bis(2-Chloroethoxy)methane	11.41	93	184172	132.77	ug/mL#	100
24) 2,4-Dichlorophenol	11.47	162	97425	143.39	ug/mL	94
25) 1,2,4-Trichlorobenzene	11.52	180	106068	151.52	ug/mL	93
26) Naphthalene	11.68	128	343139	148.66	ug/mL	100
27) 4-Chloroaniline	12.10	127	161976	149.65	ug/mL	99
28) Hexachlorobutadiene	12.20	225	62019	168.98	ug/mL	98
29) 4-Chloro-3-methylphenol	13.88	107	144226	161.48	ug/mL	86
30) 2-Chloronaphthalene	15.23	162	233262	159.87	ug/ml#	100
31) 2-Methylnaphthalene	13.80	142	306392	153.13	ug/mL	92
33) Hexachlorocyclopentadiene	14.30	237	75372	162.01	ug/mL	99
34) 2,4,6-Trichlorophenol	14.84	196	95784	139.82	ug/mL	100
35) 2,4,5-Trichlorophenol	14.92	196	88905	159.18	ug/mL	98

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

Quantitation Report

Data File : c:\hpchem\1\data2\b9156.d Vial: 6
Acq On : 20 Nov 95 4:04 pm Operator: SCOTTV
Sample : 160 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Nov 22 12:21 1995

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.12	65	185263	147.14	ug/mL	89
38)	Dimethylphthalate	16.59	163	343745	156.26	ug/mL#	12
39)	Acenaphthylene	16.42	152	390100	134.69	ug/mL	99
40)	2,6-Dinitrotoluene	16.69	165	87603	177.11	ug/mL#	94
41)	3-Nitroaniline	19.01	138	85342	155.18	ug/mL	94
42)	Acenaphthene	16.98	153	249378	152.04	ug/mL	97
43)	2,4-Dinitrophenol	17.44	184	54798	162.48	ug/mL#	85
44)	4-Nitrophenol	18.02	109	68223	186.14	ug/mL#	77
45)	Dibenzofuran	17.54	168	328941	133.31	ug/mL#	83
46)	2,4-Dinitrotoluene	17.85	165	127167	174.76	ug/mL#	1
47)	Diethylphthalate	18.81	149	352507	140.86	ug/mL#	92
48)	Fluorene	18.56	166	260696	138.87	ug/mL	98
49)	4-Chlorophenyl-phenylether	18.78	204	114266	139.67	ug/mL#	75
51)	4-Nitroaniline	19.01	138	85342	126.37	ug/mL	94
52)	4,6-Dinitro-2-methylphenol	19.08	198	69259	159.23	ug/mL	100
53)	n-Nitrosodiphenylamine	19.24	169	173217	108.85	ug/mL	96
55)	1,2-Diphenylhydrazine (as	19.26	77	522383	99.81	ug/ml	100
56)	4-Bromophenyl-phenylether	20.20	248	78677	143.41	ug/mL#	87
57)	Hexachlorobenzene	20.15	284	119797	172.12	ug/mL#	66
58)	Pentachlorophenol	20.90	266	91464	191.86	ug/mL	98
59)	Phenanthrene	21.40	178	451397	141.58	ug/mLm	99
60)	Anthracene	21.56	178	456755	145.86	ug/mL	99
61)	Carbazole	22.21	167	449707	144.01	ug/ml	95
62)	Di-n-butylphthalate	23.77	149	863992	146.46	ug/mL#	98
63)	Fluoranthene	24.95	202	562658	175.63	ug/mLm	77
65)	Benzidine	21.30	184	31272	51.24	ug/mlm	100
66)	Pyrene	25.54	202	552982	154.84	ug/mL#	87
68)	Butylbenzylphthalate	28.22	149	392647	141.31	ug/mL#	17
69)	Benzo[a]anthracene	29.26	228	473299	148.40	ug/mL	99
70)	3,3'-Dichlorobenzidine	29.44	252	141407	164.13	ug/mL#	95
71)	Chrysene	29.36	228	286102	149.64	ug/mLm	100
72)	bis(2-Ethylhexyl)phthalate	30.19	149	500621	125.71	ug/mL#	29
74)	Di-n-octylphthalate	32.10	149	621312	96.68	ug/mL#	100
75)	Benzo[b]fluoranthene	32.27	252	268405	121.74	ug/mL#	93
76)	Benzo[k]fluoranthene	32.35	252	191711	146.08	ug/mLm	93
77)	Benzo[a]pyrene	33.04	252	181522	148.68	ug/mLm	93
78)	Indeno[1,2,3-cd]pyrene	35.70	276	114792	181.12	ug/mL#	78
79)	Dibenz[a,h]anthracene	35.84	278	114109	184.20	ug/mL#	86
80)	Benzo[g,h,i]perylene	36.22	276	115784	201.21	ug/mL#	86

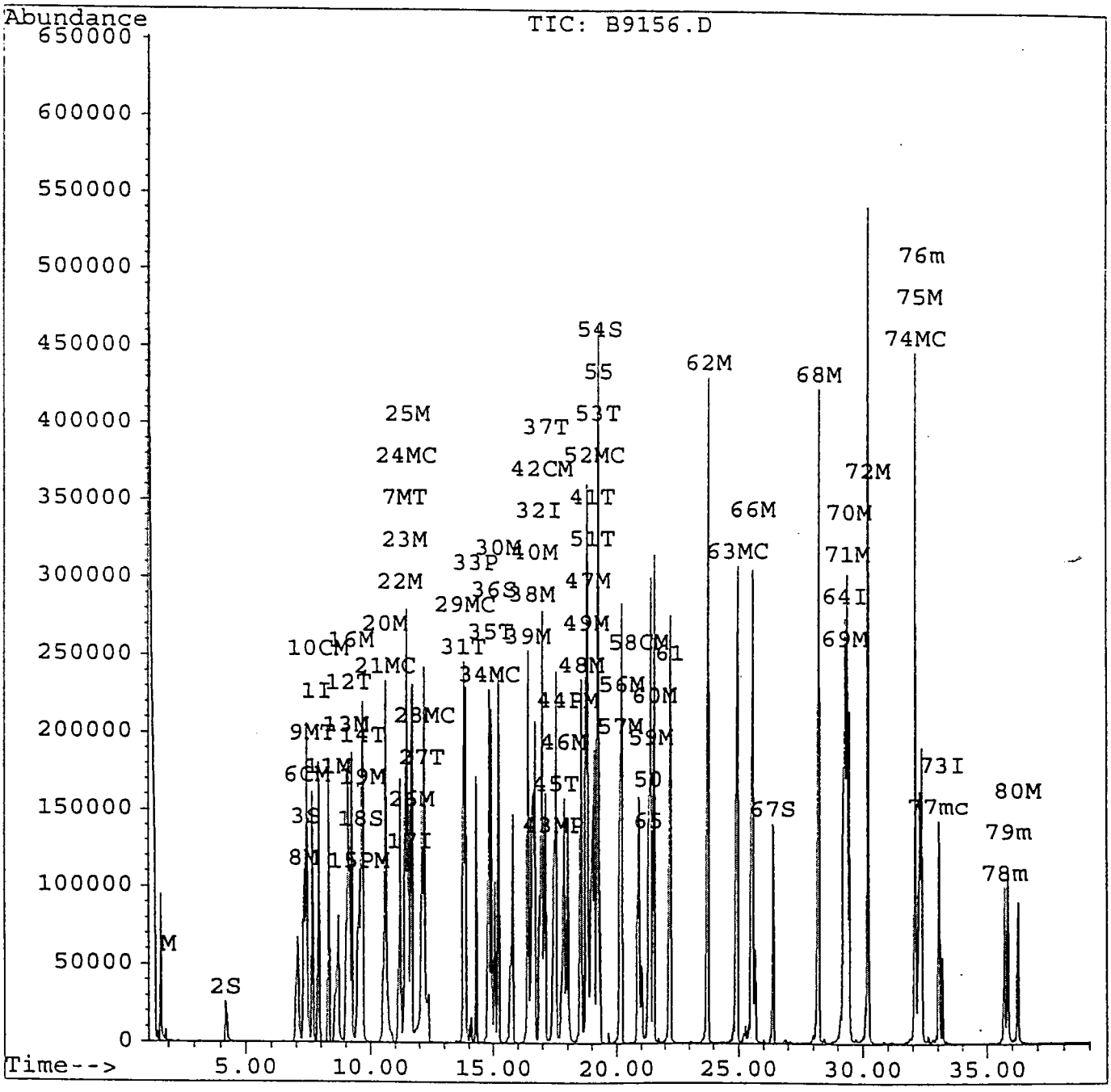
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data2\b9156.d
Acq On : 20 Nov 95 4:04 pm
Sample : 160 STD..... Converted from RTE d
Misc :
Quant Time: Nov 22 12:21 1995

Vial: 6 200
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



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

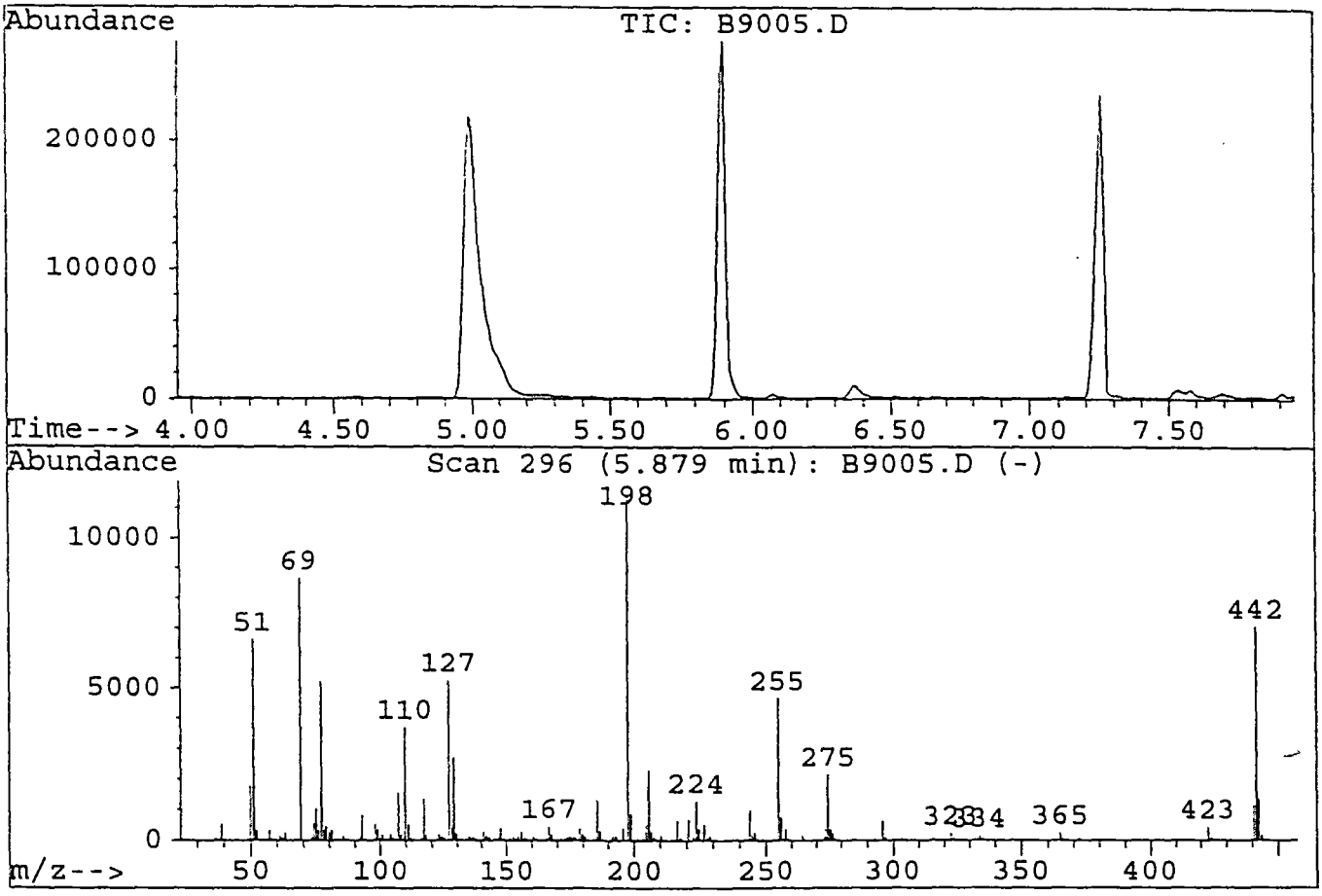
This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	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					

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

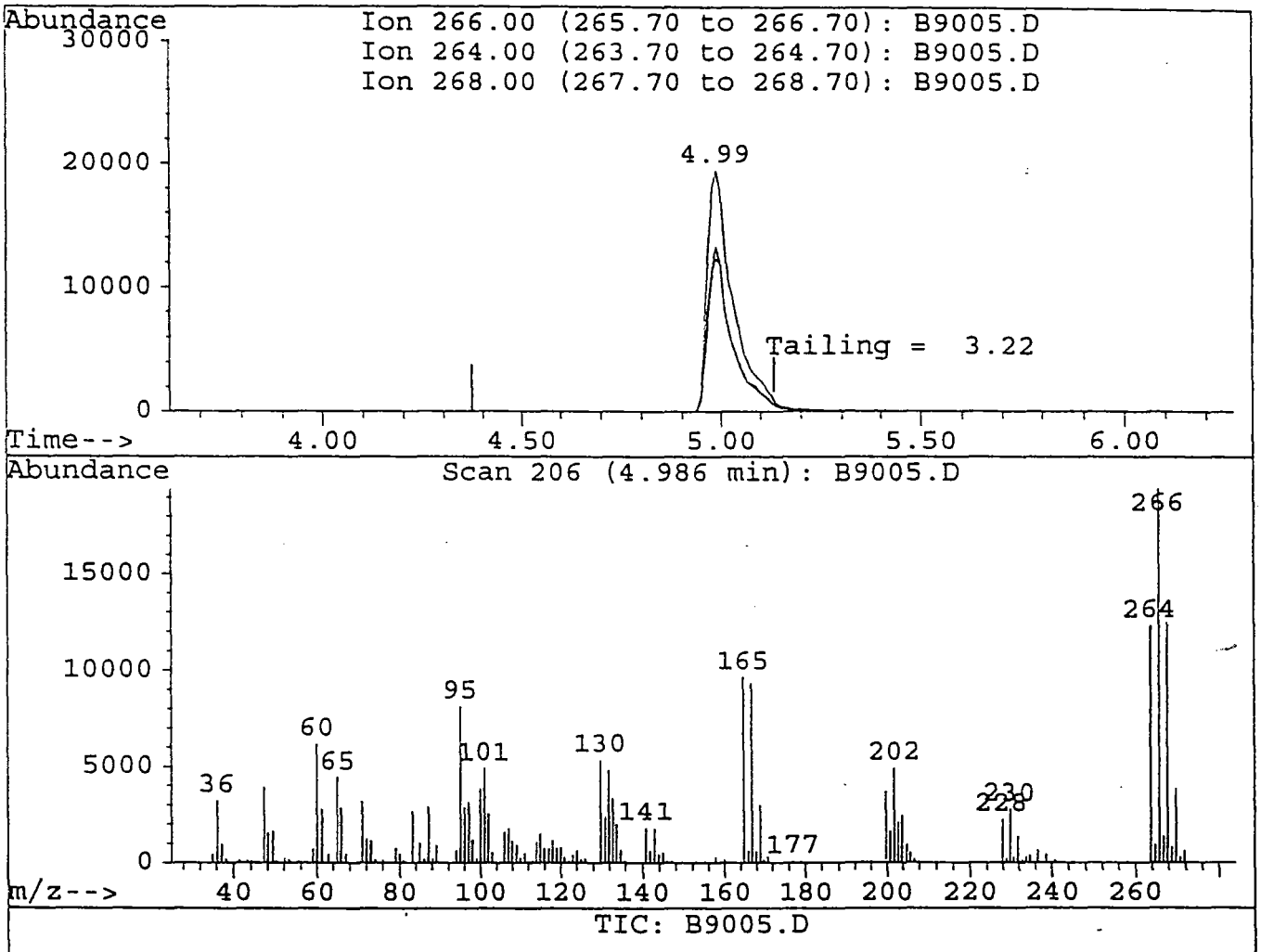
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.85	81						
440.85	1150						
441.85	7070						
442.75	1342						
443.75	155						

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

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
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

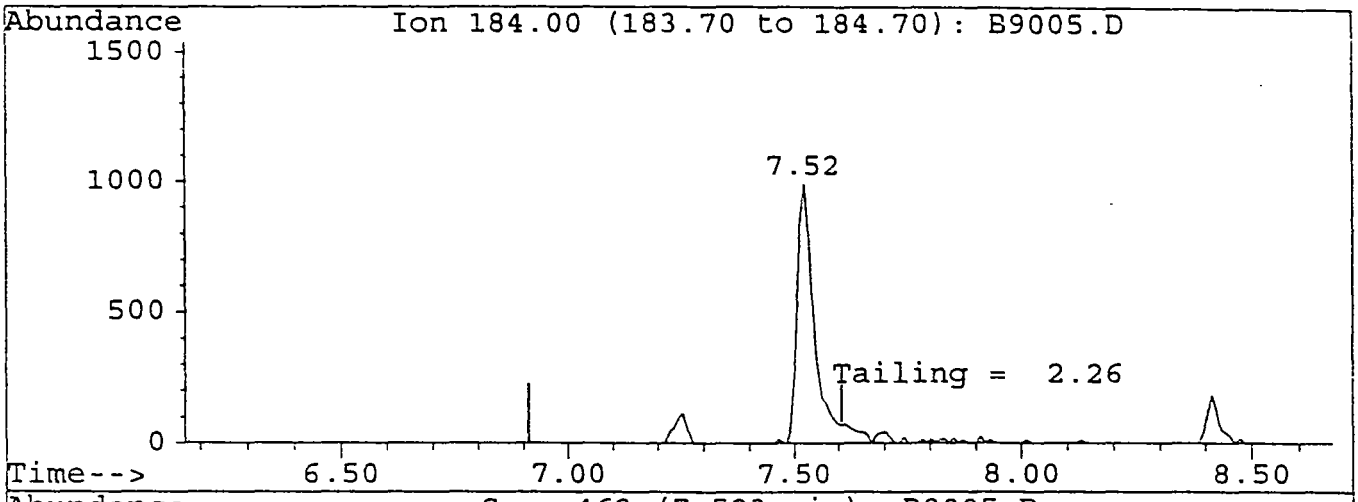
Quantitation Report

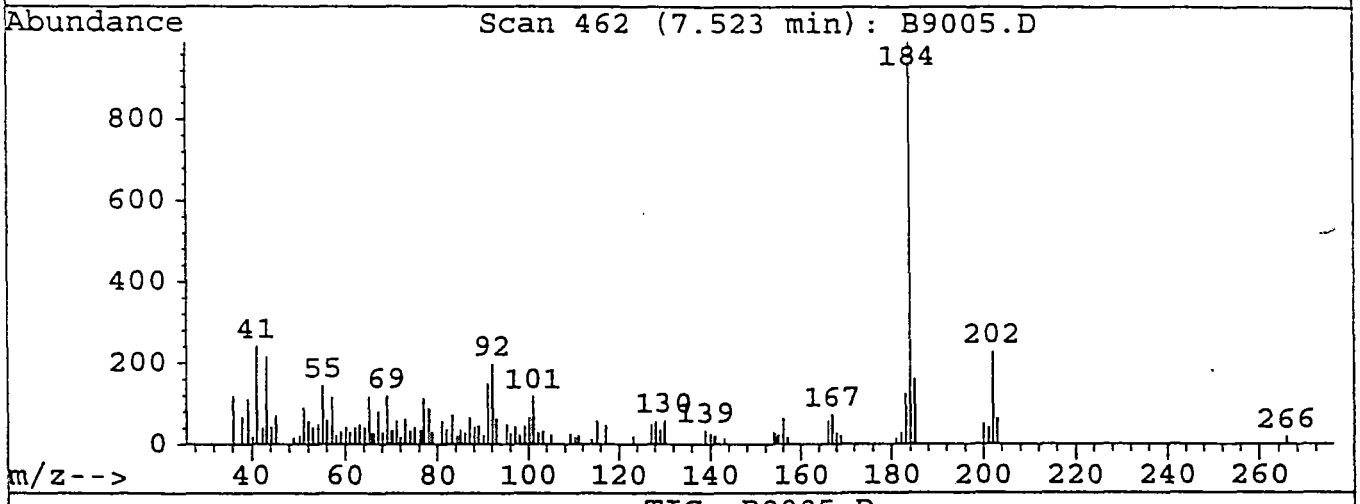
Data File : C:\HPCHEM\1\DATA2\B9005.D
Acq On : 27 Oct 95 11:21 am
Sample : DFTPP.....
Misc :
Quant Time: Oct 27 12:32 1995

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.

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
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 SUB
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

Evaluate Continuing Calibration 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

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

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

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 integrat

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

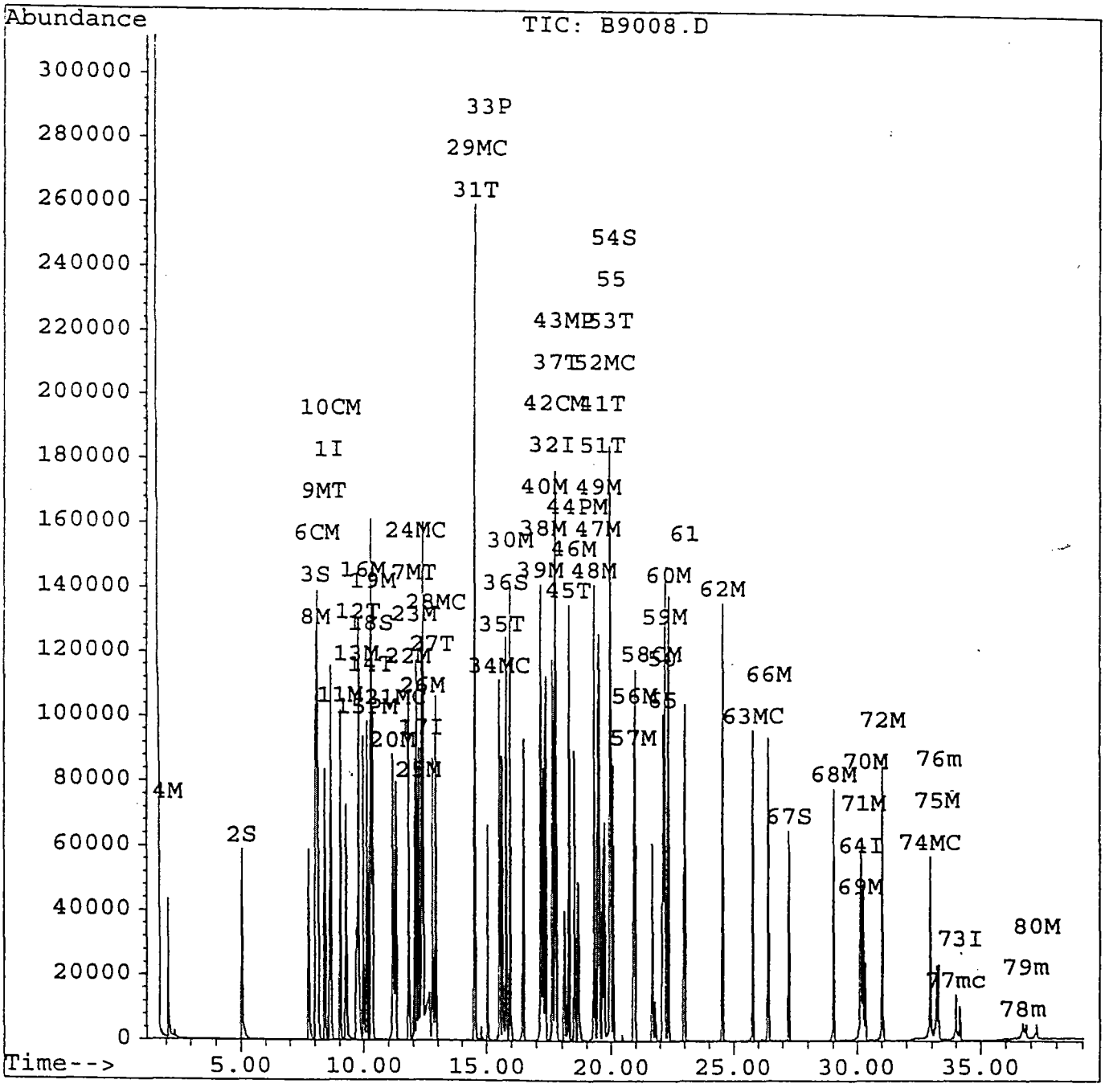
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	17.79	65	55820	49.36	ug/mL	86
38)	Dimethylphthalate	17.27	163	101087	51.16	ug/mL#	12
39)	Acenaphthylene	17.17	152	132357	50.88	ug/mL	98
40)	2,6-Dinitrotoluene	17.34	165	25335	57.03	ug/mLm	99
41)	3-Nitroaniline	19.68	138	25550	51.73	ug/mL	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

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: B9358.D DFTPP Injection Date: 12/11/95

Instrument ID: ABNA DFTPP Injection Time: 1658

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	61.6
70	Less than 2.0% of mass 69	0.9 (1.4)1
127	25.0 - 75.0% of mass 198	40.0
197	Less than 1.0% of mass 198	0.6
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	19.6
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	8.8
442	40.0 - 110.0% of mass 198	62.9
443	15.0 - 24.0% of mass 442	11.3 (18.0)2

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

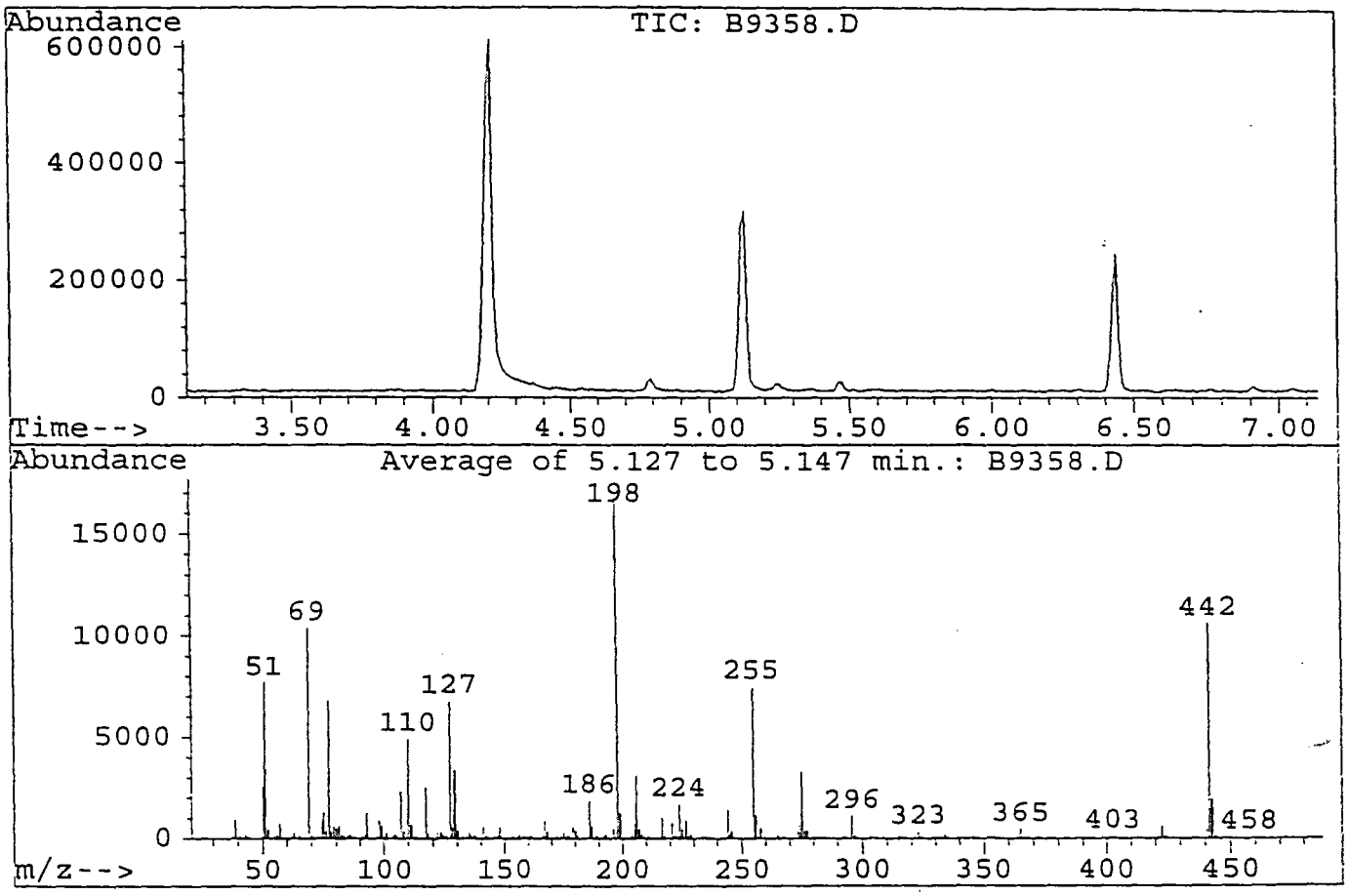
This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50 STD	B9359.D	12/11/95	1732
02	SBLK01	BLANK1	B9361.D	12/11/95	1915
03	ACIDBLK	ACIDBLK	B9362.D	12/11/95	2006
04	9554781B	9554781B	B9363.D	12/11/95	2057
05	9554782B	9554782B	B9364.D	12/11/95	2147
06	9554784B	9554784B	B9365.D	12/11/95	2238
07	9554785B	9554785B	B9366.D	12/11/95	2328
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Data File : C:\HPCHEM\1\DATA2\B9358.D
Acq On : 11 Dec 95 4:58 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: 209

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.5	7681	PASS
68	69	0	2	0.6	67	PASS
69	198	0	100	61.6	10406	PASS
70	69	0	2	1.4	146	PASS
127	198	40	60	40.0	6761	PASS
197	198	0	1	0.6	96	PASS
198	198	100	100	100.0	16895	PASS
199	198	5	9	7.3	1238	PASS
275	198	10	30	19.6	3315	PASS
365	198	1	100	2.8	469	PASS
441	443	0	100	77.4	1484	PASS
442	198	40	100	62.9	10634	PASS
443	442	17	23	18.0	1917	PASS

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	35	43.05	202	52.05	414	59.15	39
36.90	46	43.80	65	53.15	16	59.90	48
38.00	209	44.15	15	53.45	30	60.15	12
38.80	30	44.75	13	54.45	22	60.35	17
39.05	920	45.05	8	54.75	16	60.55	15
40.10	35	46.65	9	55.05	148	60.75	30
40.40	19	46.85	10	55.65	31	61.00	93
40.70	50	47.95	33	56.10	249	61.45	54
41.00	110	49.05	54	57.00	753	61.85	40
42.00	42	50.00	2571	57.90	33	62.15	147
42.40	8	51.00	7681	58.90	62	62.95	268

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
64.05	68	71.75	22	80.00	510	87.35	7
64.45	25	71.95	9	81.00	639	87.65	64
64.65	24	72.25	45	82.00	178	87.95	15
65.05	129	72.45	21	82.90	133	88.95	13
66.45	17	73.10	107	83.10	94	89.55	20
66.75	32	74.00	885	83.95	58	90.25	19
67.10	67	74.95	1309	85.00	159	90.90	166
67.70	67	76.05	390	85.65	43	91.35	29
68.95	10406	77.05	6823	85.95	180	91.75	30
70.10	146	77.95	356	86.65	16	92.00	214
71.05	108	78.95	576	87.00	64	92.95	1256

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.95	66	99.80	51	105.15	56	111.75	11
94.15	25	100.35	21	105.35	25	112.05	72
94.45	18	101.05	295	105.65	14	113.00	105
95.35	20	102.25	22	106.00	97	113.25	17
95.85	19	102.85	58	107.05	2321	113.95	11
96.15	53	103.05	54	107.65	32	114.65	12
96.30	68	103.35	12	108.05	329	115.20	36
96.70	30	103.75	17	108.35	15	116.15	69
97.10	58	104.00	238	108.85	37	117.05	2551
98.00	899	104.65	56	110.00	4909	117.95	236
99.05	591	104.95	176	111.05	666	119.00	58

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.55	24	125.15	104	132.90	9	139.40	22
120.00	46	125.75	50	134.00	154	140.00	62
120.85	8	125.95	51	135.00	302	140.90	551
121.10	22	127.05	6761	135.85	117	141.95	154
121.55	34	128.05	540	137.00	160	142.70	90
121.95	264	129.05	3368	137.50	25	142.90	67
122.75	25	130.00	373	137.70	26	143.50	30
123.05	311	130.95	79	137.90	5	143.75	28
123.95	157	131.20	19	138.35	30	143.90	5
124.55	52	131.70	9	138.80	9	144.15	18
124.75	9	132.10	30	139.10	16	144.40	7

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.05	67	152.50	17	158.65	71	166.40	11
145.70	42	152.90	142	158.90	67	167.05	911
146.15	74	153.05	61	159.70	46	167.95	345
146.70	26	153.40	13	160.00	114	168.90	40
147.00	162	153.90	109	160.20	27	169.10	29
147.95	541	155.00	164	161.00	202	169.50	10
148.60	28	156.00	271	161.70	44	169.95	23
148.95	72	156.80	35	163.00	57	170.30	9
149.20	26	157.10	38	164.35	40	170.60	23
150.10	11	157.70	12	165.05	185	171.50	21
151.00	99	157.95	122	166.05	138	172.00	81

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.80	41	181.20	19	187.10	575	193.40	15
174.00	191	181.80	23	187.70	17	194.10	62
175.00	264	182.00	8	188.00	50	194.65	25
175.70	21	182.30	6	188.20	24	194.90	8
176.05	96	182.60	6	188.60	7	195.20	28
176.95	156	182.80	6	189.00	186	196.00	466
177.20	28	183.55	33	189.45	26	196.70	96
177.85	70	183.90	62	190.15	49	198.00	16895
179.00	561	184.20	19	190.95	67	199.00	1238
180.00	389	185.00	309	192.05	229	200.00	71
180.95	163	186.00	1873	193.00	187	200.50	17

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.40	47	209.60	17	215.00	55	221.55	57
201.70	30	209.85	41	215.90	94	221.95	125
202.10	30	210.10	72	216.10	33	222.85	178
202.85	121	210.80	152	216.95	1023	223.05	13
203.70	35	211.10	27	217.90	128	224.05	1684
204.00	434	211.30	10	218.55	11	224.75	37
205.10	737	211.60	7	218.95	14	225.05	449
206.00	3143	212.10	46	219.95	30	225.65	21
207.10	427	213.15	17	220.15	9	225.90	50
208.00	190	214.00	19	220.75	38	226.95	889
208.95	64	214.30	7	221.05	787	227.85	151

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.95	238	236.95	94	244.05	1416	252.05	33
229.85	37	237.35	11	245.00	231	252.35	20
230.05	5	239.15	43	245.95	351	252.95	73
231.00	77	239.45	7	246.50	30	253.45	28
231.85	31	239.85	12	246.85	67	253.65	20
232.85	57	240.15	12	248.05	45	254.05	18
233.55	25	240.90	58	248.95	37	254.95	7485
234.05	93	241.25	14	249.25	21	255.95	1141
235.00	55	241.75	74	250.00	35	256.80	59
235.25	25	242.25	22	250.45	19	257.15	66
235.95	46	243.00	82	251.10	52	257.65	25

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.95	505	267.00	17	274.15	26	281.45	21
259.05	94	267.35	8	274.95	3315	281.95	12
259.95	19	267.70	44	276.00	375	282.65	8
261.15	13	268.75	6	276.35	50	282.95	61
262.70	39	269.45	8	277.05	372	283.35	5
263.90	69	270.85	18	278.05	61	283.70	22
264.45	11	271.45	13	278.90	32	283.95	19
264.95	200	272.05	29	279.20	28	284.65	45
265.75	56	272.25	11	280.05	10	285.05	34
266.15	5	272.95	297	280.25	11	285.70	46
266.55	5	273.95	675	280.65	19	286.05	10

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
286.60	20	293.25	16	302.25	31	308.70	10
287.15	9	294.15	15	302.40	14	309.20	24
287.80	41	295.95	1113	303.00	139	310.00	38
288.75	8	296.95	169	303.60	51	311.10	8
289.25	18	297.45	11	304.20	39	311.60	8
290.10	38	297.95	10	304.40	6	312.10	9
290.75	17	298.15	9	305.05	14	312.50	12
291.95	21	299.65	13	305.40	22	313.60	17
292.10	20	300.65	8	305.90	8	314.00	37
292.75	20	300.95	45	306.20	13	315.00	184
293.05	57	301.65	5	308.00	35	315.80	23

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.10	52	325.00	9	332.20	17	339.65	20
317.10	29	325.30	9	332.45	16	340.10	9
317.45	22	326.80	41	332.80	7	340.80	12
317.70	16	327.30	7	334.00	237	341.05	76
320.30	12	327.80	27	335.00	53	341.70	10
320.90	54	328.40	16	335.80	8	342.10	5
321.90	34	328.80	6	336.00	10	342.70	17
323.00	330	329.30	12	337.40	5	344.00	20
323.90	80	330.30	8	337.90	7	345.30	15
324.30	13	331.30	5	339.00	12	345.85	96
324.70	11	331.80	24	339.30	12	346.70	22

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
348.90	12	354.00	103	366.00	71	372.00	127
349.10	14	354.30	10	367.10	13	372.20	16
349.60	20	355.00	17	367.60	8	372.40	14
349.95	24	356.40	11	368.00	12	372.70	9
350.60	11	356.70	7	368.40	5	373.10	51
350.90	28	357.05	11	369.30	13	374.10	16
351.10	19	358.90	13	369.50	11	374.30	7
351.30	8	360.20	15	370.05	30	374.60	10
352.00	129	361.20	11	370.30	7	375.00	7
352.30	7	362.30	9	370.90	55	375.60	13
353.00	99	365.00	469	371.70	34	376.40	14

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
377.00	27	387.20	8	398.55	10	404.35	15
380.15	12	387.45	19	398.85	10	406.65	9
381.00	5	388.75	8	399.05	9	406.95	10
381.90	7	389.75	17	399.75	24	407.45	9
383.00	81	390.65	6	401.15	8	407.85	15
383.20	5	390.95	20	401.35	8	408.20	16
383.60	12	391.55	9	401.95	87	408.45	4
384.20	13	392.35	29	403.05	110	409.25	4
385.10	10	392.85	13	403.25	11	409.40	16
386.60	9	394.95	22	403.80	26	409.75	8
386.80	9	395.25	6	404.05	79	410.65	14

Average of 5.127 to 5.147 min.: B9358.D

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
412.05	11	420.45	15	427.15	17	435.60	18
412.35	18	420.80	88	427.65	23	435.85	8
413.20	27	421.05	18	427.95	10	436.15	6
414.65	18	421.25	15	428.95	22	436.75	17
416.95	5	421.90	112	429.45	27	437.35	10
417.25	13	422.95	600	431.45	15	438.05	9
418.40	24	424.05	123	432.10	15	438.40	11
418.75	14	425.05	9	432.55	12	440.95	1484
419.35	10	425.75	8	433.25	9	441.95	10634
419.65	18	425.95	10	434.75	23	442.95	1917
420.10	14	426.95	14	435.15	19	443.75	28

Average of 5.127 to 5.147 min.: B9358.D

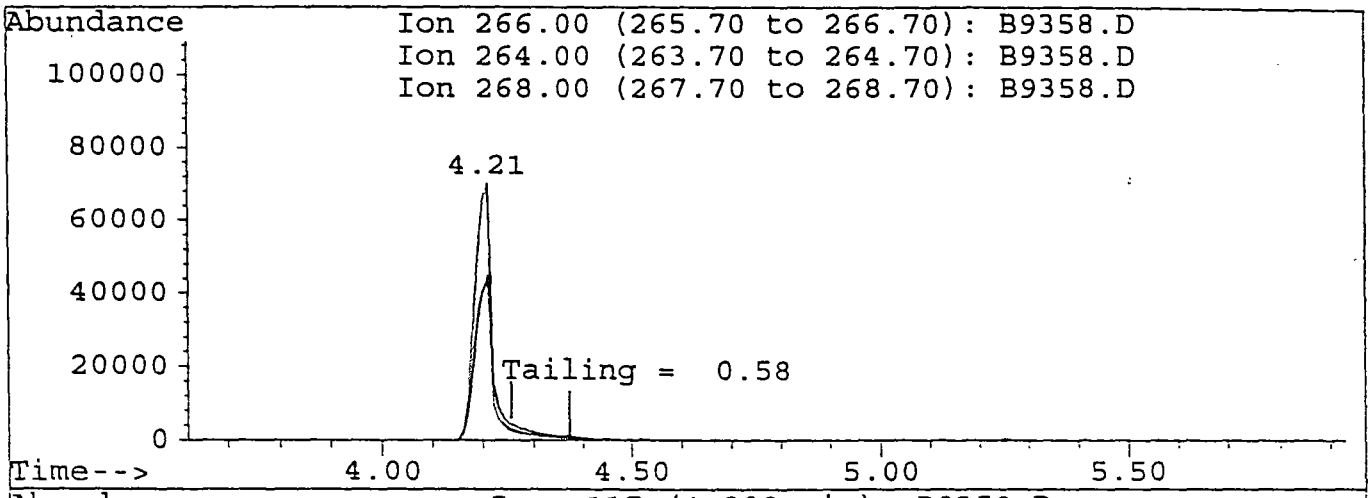
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
444.05	159	452.75	9	460.85	15	468.15	8
445.00	49	452.95	7	461.65	29	468.40	14
445.35	12	453.35	9	462.55	9	469.85	13
445.75	6	453.65	7	462.85	9	470.30	21
446.15	16	453.95	9	464.75	10	470.65	7
447.35	9	454.45	4	465.35	12	471.85	11
448.25	7	456.15	9	465.75	12	472.15	19
449.45	18	456.35	12	466.15	6	472.35	11
450.85	11	457.15	8	466.45	8	473.05	14
451.75	5	457.45	6	466.85	9		
451.95	15	457.85	43	467.35	10		

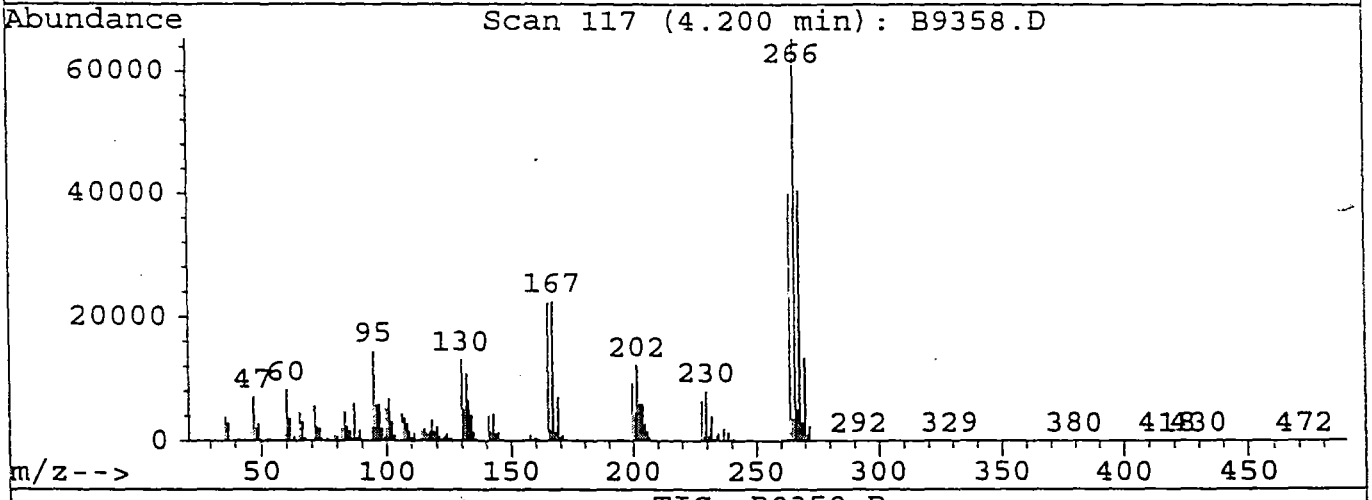
Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9358.D
Acq On : 11 Dec 95 4:58 pm
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Dec 11 17:28 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: B9358.D

(1) Pentachlorophenol (CM)

4.84min 2.56ug/mL

response 844

Ion	Exp%	Act%
266.00	100	100
264.00	64.30	63.24
268.00	64.70	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA2\B9358.D
Acq On : 11 Dec 95 4:58 pm
Sample : DFTPP..... Converted from RTE d
Misc :
Quant Time: Dec 11 17:28 1995

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

Method : C:\HPCHEM\1\METHODS\BNACLP.M
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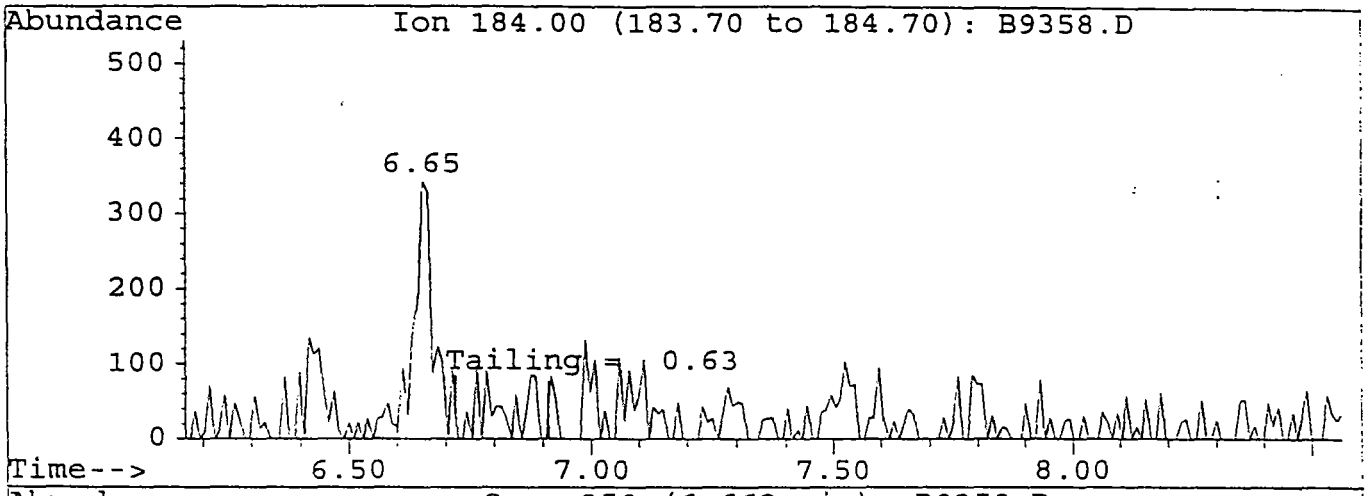
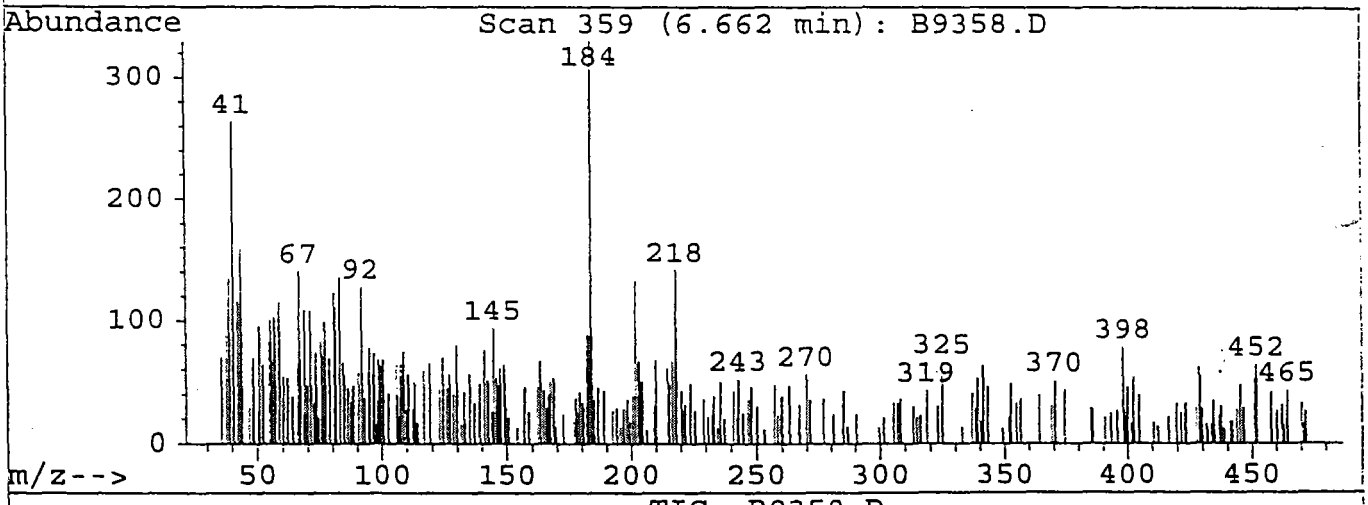




TIC: B9358.D

(2) Benzidine
7.53min 0.94ug/ml
response 290

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

223

Lab Name: EMSL ANALYTICAL Contract: _____

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

Instrument ID: ABNA Calibration Date: #### Time: 1732

Lab File ID: B9359.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1732 0000

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.649	1.462		11.3	30.0
bis(2-Chloroethyl)ether	2.157	1.751		18.8	
2-Chlorophenol	1.302	1.178		9.5	
1,3-Dichlorobenzene	1.353	1.293		4.4	
1,4-Dichlorobenzene	1.369	1.374		-0.4	30.0
1,2-Dichlorobenzene	1.359	1.339		1.5	
2-Methylphenol	1.218	1.497		-22.9	
bis(2-chloroisopropyl)ether	2.246	1.766		21.4	
4-Methylphenol	1.307	1.225		6.3	
N-Nitroso-Di-n-propylamine	1.408	1.238	0.050	12.1	
Hexachloroethane	0.828	0.858		-3.6	
Nitrobenzene	0.559	0.461		17.5	
Isophorone	0.770	0.665		13.6	
2-Nitrophenol	0.215	0.205		4.7	30.0
2,4-Dimethylphenol	0.380	0.308		18.9	
bis(2-Chloroethoxy)methane	0.517	0.429		17.0	
2,4-Dichlorophenol	0.277	0.272		1.8	30.0
1,2,4-Trichlorobenzene	0.313	0.319		-1.9	
Naphthalene	0.958	0.887		7.4	
4-Chloroaniline	0.446	0.410		8.1	
Hexachlorobutadiene	0.188	0.221		-17.6	30.0
4-Chloro-3-methylphenol	0.397	0.336		15.4	30.0
2-Methylnaphthalene	0.839	0.880		-4.9	
Hexachlorocyclopentadiene	0.268	0.251	0.050	6.3	
2,4,6-Trichlorophenol	0.351	0.341		2.8	30.0
2,4,5-Trichlorophenol	0.357	0.404		-13.2	
2-Chloronaphthalene	0.693	0.731		-5.5	
2-Nitroaniline	0.650	0.545		16.2	
Dimethylphthalate	1.366	1.324		3.1	
Acenaphthylene	1.607	1.570		2.3	
2,6-Dinitrotoluene	0.336	0.318		5.4	
3-Nitroaniline	0.326	0.339		-4.0	
Acenaphthene	1.020	0.987		3.2	30.0
2,4-Dinitrophenol	0.183	0.151	0.050	17.5	
4-Nitrophenol	0.234	0.245	0.050	-4.7	
Dibenzofuran	1.433	1.477		-3.1	
2,4-Dinitrotoluene	0.462	0.449		2.8	

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: 1732

Lab File ID: B9359.D Init. Calib. Date(s): #### 1/0/00

Init. Calib. Times: 1732 0000

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.498	1.410		5.9	
Fluorene	1.125	1.137		-1.1	
4-Chlorophenyl-phenylether	0.532	0.552		-3.8	
4-Nitroaniline	0.179	0.193		-7.8	
4,6-Dinitro-2-methylphenol	0.131	0.126		3.8	30.0
n-Nitrosodiphenylamine	0.424	0.412		2.8	
4-Bromophenyl-phenylether	0.209	0.246		-17.7	
Hexachlorobenzene	0.294	0.376		-27.9	
Pentachlorophenol	0.182	0.212		-16.5	30.0
Phenanthrene	0.989	0.981		0.8	
Anthracene	0.998	1.000		-0.2	
Carbazole	0.952	0.961		-0.9	
Di-n-butylphthalate	1.830	1.793		2.0	
Fluoranthene	1.092	1.284		-17.6	30.0
Pyrene	1.481	1.104		25.5	
Butylbenzylphthalate	1.086	0.898		17.3	
Benzo[a]anthracene	1.253	1.046		16.5	
3,3'-Dichlorobenzidine	0.387	0.379		2.1	
Chrysene	0.905	0.819		9.5	
bis(2-Ethylhexyl)phthalate	1.489	1.497		-0.5	
Di-n-octylphthalate	4.241	3.439		18.9	30.0
Benzo[b]fluoranthene	1.623	1.412		13.0	
Benzo[k]fluoranthene	1.220	1.058		13.3	
Benzo[a]pyrene	1.032	0.988		4.3	30.0
Indeno[1,2,3-cd]pyrene	0.728	0.827		-13.6	
Dibenz[a,h]anthracene	0.713	0.601		15.7	
Benzo[g,h,i]perylene	0.725	0.652		10.1	
2-Fluorophenol	1.139	1.034		9.2	
Phenol-d5	1.896	1.588		16.2	
Nitrobenzene-d5	0.478	0.415		13.2	
2-Fluorobiphenyl	1.063	1.075		-1.1	
2,4,6-Tribromophenol	0.176	0.173		1.7	
Terphenyl-d14	1.103	0.821		25.6	

All other compounds must meet a minimum RRF of 0.010.

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9359.D Vial: 2
Acq On : 11 Dec 95 5:32 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 Nov 22 12:21:54 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	50#	-0.41
2	S	2-Fluorophenol	1.139	1.034	9.2	45#	-0.47
3	S	Phenol-d5	1.896	1.588	16.3	42#	-0.38
4	M	N-nitrosodimethylamine	0.853	0.792	7.2	47#	-0.18
5		Pyridine	1.101	0.002#	99.8#	0#	0.47
6	CM	Phenol	1.649	1.462	11.4	46#	-0.38
7	MT	bis(2-Chloroethyl)ether	2.157	1.751	18.8	41#	-0.38
8	M	2-Chlorophenol	1.302	1.178	9.5	46#	-0.41
9	MT	1,3-Dichlorobenzene	1.353	1.293	4.5	47#	-0.41
10	CM	1,4-Dichlorobenzene	1.369	1.374	-0.3	48#	-0.40
11	M	1,2-Dichlorobenzene	1.359	1.339	1.5	48#	-0.40
12	T	2-Methylphenol	1.218	1.497	-22.9	63	-0.36
13	M	bis(2-chloroisopropyl)ether	2.246	1.766	21.4	43#	-0.32
14	T	4-Methylphenol	1.307	1.225	6.2	48#	-0.36
15	PM	N-Nitroso-Di-n-propylamine	1.408	1.238	12.0	46#	-0.38
16	M	Hexachloroethane	0.828	0.858	-3.6	51	-0.41
17	I	Naphthalene-d8	1.000	1.000	0.0	52	-0.40
18	S	Nitrobenzene-d5	0.478	0.415	13.3	48#	-0.40
19	M	Nitrobenzene	0.559	0.461	17.6	44#	-0.40
20	M	Isophorone	0.770	0.665	13.7	41#	-0.38
21	MC	2-Nitrophenol	0.215	0.205	4.8	52	-0.40
22	M	2,4-Dimethylphenol	0.380	0.308	18.8	45#	-0.36
23	M	bis(2-Chloroethoxy)methane	0.517	0.429	16.9	44#	-0.38
24	MC	2,4-Dichlorophenol	0.277	0.272	1.8	52	-0.36
25	M	1,2,4-Trichlorobenzene	0.313	0.319	-2.1	53	-0.38
26	M	Naphthalene	0.958	0.887	7.4	48#	-0.40
27	T	4-Chloroaniline	0.446	0.410	8.1	49#	-0.38
28	MC	Hexachlorobutadiene	0.188	0.221	-17.8	61	-0.38
29	MC	4-Chloro-3-methylphenol	0.397	0.336	15.3	47#	-0.36
30	M	2-Chloronaphthalene	0.693	0.731	-5.6	58	-0.40
31	T	2-Methylnaphthalene	0.839	0.880	-4.9	54	-0.38
32	I	Acenaphthene-d10	1.000	1.000	0.0	53	-0.40
33	P	Hexachlorocyclopentadiene	0.268	0.251	6.5	54	-0.38
34	MC	2,4,6-Trichlorophenol	0.351	0.341	3.0	58	-0.38
35	T	2,4,5-Trichlorophenol	0.357	0.404	-13.2	60	-0.38
36	S	2-Fluorobiphenyl	1.063	1.075	-1.1	59	-0.38
37	T	2-Nitroaniline	0.650	0.545	16.2	48#	-0.38
38	M	Dimethylphthalate	1.366	1.324	3.1	53	-0.38
39	M	Acenaphthylene	1.607	1.570	2.3	51	-0.40
40	M	2,6-Dinitrotoluene	0.336	0.318	5.3	51	-0.38

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9359.D Vial: 2
Acq On : 11 Dec 95 5:32 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 Nov 22 12:21:54 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	0.326	0.339	-4.1	54	-0.38
2	CM	Acenaphthene	1.020	0.987	3.2	50	-0.40
43	MP	2,4-Dinitrophenol	0.183	0.151	17.1	59	-0.36
44	PM	4-Nitrophenol	0.234	0.245	-4.5	66	-0.36
5	T	Dibenzofuran	1.433	1.477	-3.1	54	-0.40
46	M	2,4-Dinitrotoluene	0.462	0.449	2.9	54	-0.36
47	M	Diethylphthalate	1.498	1.410	5.9	48#	-0.38
48	M	Fluorene	1.125	1.137	-1.1	52	-0.40
9	M	4-Chlorophenyl-phenylether	0.532	0.552	-3.8	54	-0.38
50		Phenanthrene-d10	1.000	1.000	0.0	51	-0.40
1	T	4-Nitroaniline	0.179	0.193	-7.6	54	-0.38
52	MC	4,6-Dinitro-2-methylphenol	0.131	0.126	3.4	51	-0.38
53	T	n-Nitrosodiphenylamine	0.424	0.412	2.9	51	-0.38
54	S	2,4,6-Tribromophenol	0.176	0.173	1.5	53	-0.40
55		1,2-Diphenylhydrazine (as a	1.193	0.980	17.9	42#	-0.40
56	M	4-Bromophenyl-phenylether	0.209	0.246	-17.5	59	-0.40
57	M	Hexachlorobenzene	0.294	0.376	-27.9	64	-0.40
8	CM	Pentachlorophenol	0.182	0.212	-16.2	69	-0.38
59	M	Phenanthrene	0.989	0.981	0.8	53	-0.40
60	M	Anthracene	0.998	1.000	-0.1	54	-0.42
1		Carbazole	0.952	0.961	-0.9	54	-0.40
62	M	Di-n-butylphthalate	1.830	1.793	2.0	52	-0.38
63	MC	Fluoranthene	1.092	1.284	-17.6	64	-0.41
4	I	Chrysene-d12	1.000	1.000	0.0	93	-0.41
65		Benzidine	0.116	0.102	12.2	59	-0.41
66	M	Pyrene	1.481	1.104	25.5	76	-0.43
7	S	Terphenyl-d14	1.103	0.821	25.6	80	-0.40
68	M	Butylbenzylphthalate	1.086	0.898	17.3	88	-0.40
69	M	Benzo[a]anthracene	1.253	1.046	16.6	84	-0.41
0	M	3,3'-Dichlorobenzidine	0.387	0.379	2.2	104	-0.41
71	M	Chrysene	0.905	0.819	9.5	90	-0.41
72	M	bis(2-Ethylhexyl)phthalate	1.489	1.497	-0.6	102	-0.40
3	I	Perylene-d12	1.000	1.000	0.0	173#	-0.43
74	MC	Di-n-octylphthalate	4.241	3.439	18.9	124	-0.39
75	M	Benzo[b]fluoranthene	1.623	1.412	13.0	151#	-0.41
6	m	Benzo[k]fluoranthene	1.220	1.058	13.3	153#	-0.41
77	mc	Benzo[a]pyrene	1.032	0.988	4.2	173#	-0.41
78	m	Indeno[1,2,3-cd]pyrene	0.728	0.827	-13.7	208#	-0.45
9	m	Dibenz[a,h]anthracene	0.713	0.601	15.6	179#	-0.45

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA2\B9359.D Vial: 2
Acq On : 11 Dec 95 5:32 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 Nov 22 12:21:54 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)
50	M	Benzo[g,h,i]perylene	0.725	0.652	10.1	201# -0.45

(#) = Out of Range

Quantitation Report

Data File : c:\hpchem\1\data2\b9359.d Vial: 2
Acq On : 11 Dec 95 5:32 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 12 14:23 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	10941	40.00	ug/mL	-0.41
17) Naphthalene-d8	11.18	136	48389	40.00	ug/mL	-0.40
32) Acenaphthene-d10	16.44	164	35554	40.00	ug/mL	-0.40
50) Phenanthrene-d10	20.85	188	62566	40.00	ug/ml	-0.40
64) Chrysene-d12	28.83	240	86453	40.00	ug/mL	-0.41
73) Perylene-d12	32.72	264	53312	40.00	ug/mL	-0.43
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.69	112	14146	45.41	ug/mL	45.41%
3) Phenol-d5	6.96	99	21717	41.87	ug/mL	41.87%
18) Nitrobenzene-d5	9.16	82	25080	43.37	ug/mL	43.37%
36) 2-Fluorobiphenyl	14.67	172	47771	50.54	ug/mL	50.54%
54) 2,4,6-Tribromophenol	18.85	330	13554	49.23	ug/mL	49.23%
67) Terphenyl-d14	25.98	244	88701	37.21	ug/mL	37.21%
Target Compounds						Qvalue
4) N-nitrosodimethylamine	1.49	74	10831	46.42	ug/mlm	100
6) Phenol	7.00	94	19988	44.32	ug/mL	100
7) bis(2-Chloroethyl)ether	10.97	93	23953	40.60	ug/mL	92
8) 2-Chlorophenol	6.85	128	16116	45.26	ug/mL#	89
9) 1,3-Dichlorobenzene	7.21	146	17679	47.77	ug/mL	93
10) 1,4-Dichlorobenzene	7.48	146	18787	50.16	ug/mL	100
11) 1,2-Dichlorobenzene	7.87	146	18308	49.26	ug/mL	97
12) 2-Methylphenol	8.71	108	20478	61.45	ug/mLm	94
13) bis(2-chloroisopropyl)ethe	8.68	45	24146	39.31	ug/mLm	82
14) 4-Methylphenol	9.23	108	16753	46.88	ug/mL	94
15) N-Nitroso-Di-n-propylamine	9.02	70	16938	43.99	ug/mLm	88
16) Hexachloroethane	8.81	117	11728	51.78	ug/mL#	86
19) Nitrobenzene	9.22	77	27887	41.22	ug/mLm	83
20) Isophorone	10.06	82	40219	43.17	ug/mL	99
21) 2-Nitrophenol	10.16	139	12400	47.58	ug/mL#	82
22) 2,4-Dimethylphenol	10.76	107	18658	40.58	ug/mL#	100
23) bis(2-Chloroethoxy)methane	10.97	93	25967	41.54	ug/mLm	100
24) 2,4-Dichlorophenol	11.03	162	16433	49.08	ug/mL	97
25) 1,2,4-Trichlorobenzene	11.10	180	19298	51.03	ug/mL	96
26) Naphthalene	11.24	128	53638	46.28	ug/mL	98
27) 4-Chloroaniline	11.66	127	24796	45.95	ug/mL	96
28) Hexachlorobutadiene	11.78	225	13367	58.90	ug/mL	97
29) 4-Chloro-3-methylphenol	13.45	107	20347	42.34	ug/mL	98
30) 2-Chloronaphthalene	14.78	162	44244	52.81	ug/ml#	100
31) 2-Methylnaphthalene	13.37	142	53251	52.45	ug/mLm	98
33) Hexachlorocyclopentadiene	13.89	237	11139	46.73	ug/mL	95
34) 2,4,6-Trichlorophenol	14.40	196	15157	48.52	ug/mL	98
35) 2,4,5-Trichlorophenol	14.49	196	17938	56.60	ug/mL	97

(#) = qualifier out of range (=)

Quantitation Report

Data File : c:\hpchem\1\data2\b9359.d Vial: 2
Acq On : 11 Dec 95 5:32 pm Operator: SCOTTV
Sample : 50 STD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 12 14:23 1995

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

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	2-Nitroaniline	16.61	65	24208	41.88	ug/mLm	89
38)	Dimethylphthalate	16.13	163	58831	48.46	ug/mL#	13
39)	Acenaphthylene	15.98	152	69780	48.86	ug/mL	99
40)	2,6-Dinitrotoluene	16.21	165	14150	47.37	ug/mL#	90
41)	3-Nitroaniline	18.48	138	15064	52.06	ug/mL	90
42)	Acenaphthene	16.53	153	43880	48.38	ug/mL	96
43)	2,4-Dinitrophenol	16.94	184	6725	41.45	ug/mL#	87
44)	4-Nitrophenol	17.54	109	10886	52.26	ug/mL#	77
45)	Dibenzofuran	17.07	168	65629	51.54	ug/mL#	88
46)	2,4-Dinitrotoluene	17.36	165	19938	48.57	ug/mL#	1
47)	Diethylphthalate	18.33	149	62644	47.04	ug/mL	98
48)	Fluorene	18.10	166	50522	50.54	ug/mL	99
49)	4-Chlorophenyl-phenylether	18.35	204	24520	51.89	ug/mL#	70
51)	4-Nitroaniline	18.48	138	15064	53.78	ug/mL	90
52)	4,6-Dinitro-2-methylphenol	18.56	198	9892	48.32	ug/mL	100
53)	n-Nitrosodiphenylamine	18.77	169	32193	48.53	ug/mL	100
55)	1,2-Diphenylhydrazine (as	18.79	77	76644	41.07	ug/ml	100
56)	4-Bromophenyl-phenylether	19.75	248	19209	58.76	ug/mL	95
57)	Hexachlorobenzene	19.68	284	29371	63.96	ug/mLm	96
58)	Pentachlorophenol	20.45	266	16568	58.10	ug/mL	98
59)	Phenanthrene	20.93	178	76731	49.61	ug/mL	99
60)	Anthracene	21.07	178	78197	50.07	ug/mLm	99
61)	Carbazole	21.76	167	75141	50.47	ug/ml	96
62)	Di-n-butylphthalate	23.36	149	140235	48.99	ug/mL#	97
63)	Fluoranthene	24.47	202	100415	58.78	ug/mLm	93
65)	Benzidine	20.85	184	11015	43.90	ug/mlm	100
66)	Pyrene	25.07	202	119339	37.27	ug/mLm	98
68)	Butylbenzylphthalate	27.79	149	96999	41.34	ug/mLm	30
69)	Benzo[a]anthracene	28.79	228	112993	41.71	ug/mL	98
70)	3,3'-Dichlorobenzidine	29.00	252	40928	48.89	ug/mL	89
71)	Chrysene	28.89	228	88477	45.24	ug/mLm	98
72)	bis(2-Ethylhexyl)phthalate	29.79	149	161758	50.28	ug/mLm	16
74)	Di-n-octylphthalate	31.68	149	229156	40.54	ug/mLm	100
75)	Benzo[b]fluoranthene	31.80	252	94112	43.51	ug/mL#	96
76)	Benzo[k]fluoranthene	31.87	252	70478	43.36	ug/mLm	96
77)	Benzo[a]pyrene	32.59	252	65871	47.88	ug/mLm	96
78)	Indeno[1,2,3-cd]pyrene	35.21	276	55141	56.84	ug/mLm	97
79)	Dibenz[a,h]anthracene	35.34	278	40070	42.18	ug/mL	91
80)	Benzo[g,h,i]perylene	35.73	276	43435	44.95	ug/mLm	98

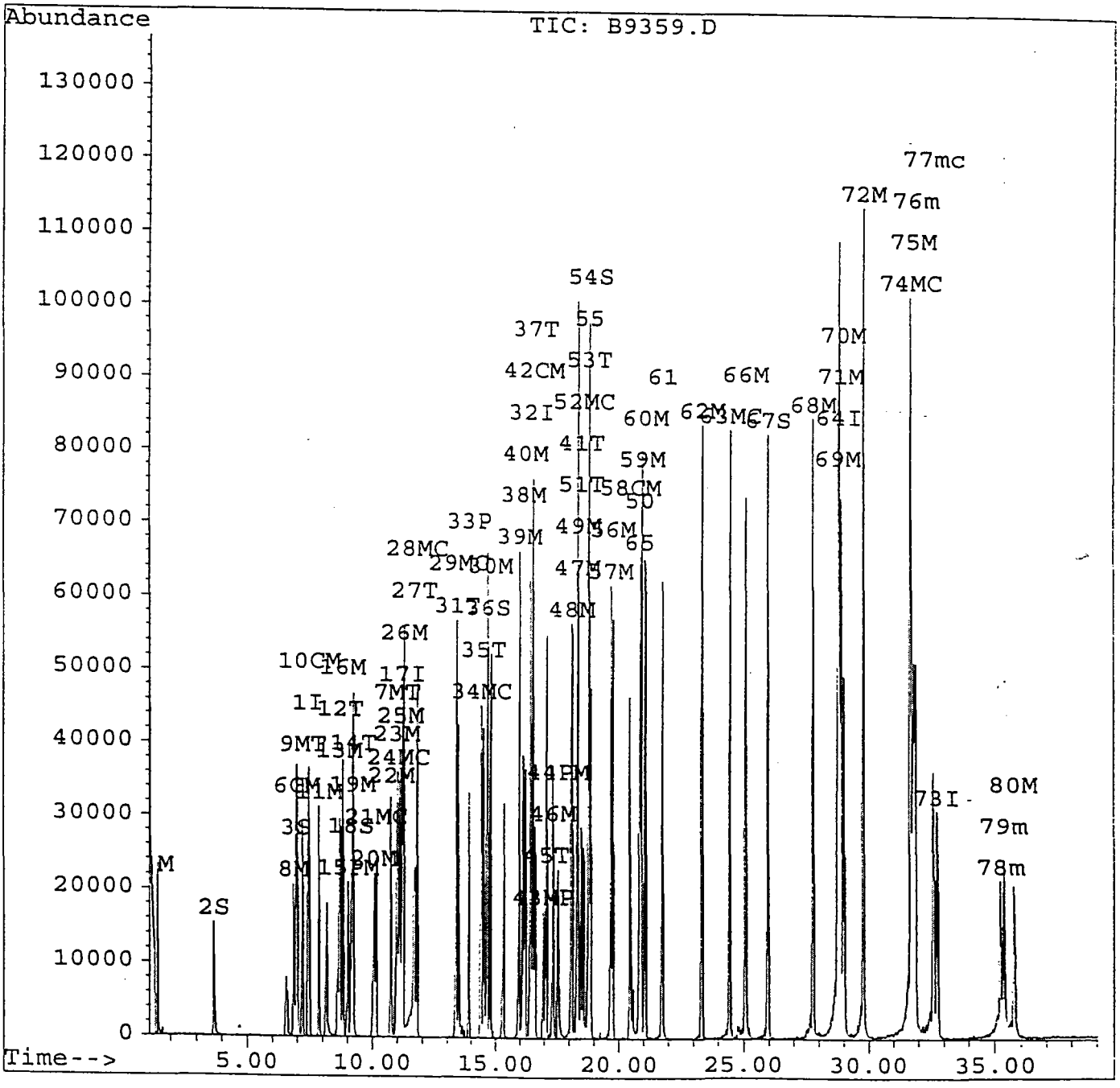
(#) = qualifier out of range (m) = manual integrati

Quantitation Report

Data File : c:\hpchem\1\data2\b9359.d
Acq On : 11 Dec 95 5:32 pm
Sample : 50 STD..... Converted from RTE d
Misc :
Quant Time: Dec 12 14:23 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 Nov 22 12:21:54 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										
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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): B9359.D Date Analyzed: 12/11/95

Instrument ID: ABNA Time Analyzed: 1732

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	10941	7.42	48389	11.18	35554	16.44
	UPPER LIMIT	21882	7.92	96778	11.68	71108	16.94
	LOWER LIMIT	5471	6.92	24195	10.68	17777	15.94
	SAMPLE NO.						
01	SBLK01	9092	7.40	40071	11.15	28088	16.41
02	ACIDBLK	8027	7.40	34360	11.15	24053	16.41
03	9554781B	9100	7.40	37830	11.15	25380	16.41
04	9554782B	7684	7.40	34895	11.15	24102	16.41
05	9554784B	9768	7.42	40944	11.15	27695	16.41
06	9554785B	8332	7.41	34704	11.15	23555	16.40
07							
08							
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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): B9359.D Date Analyzed: 12/11/95

Instrument ID: ABNA Time Analyzed: 1732

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	62566	20.85	86453	28.83	53312	32.72
	UPPER LIMIT	125132	21.35	172906	29.33	106624	33.22
	LOWER LIMIT	31283	20.35	43227	28.33	26656	32.22
	SAMPLE NO.						
01	SBLK01	51601	20.83	73951	28.78	86798	32.73
02	ACIDBLK	49490	20.81	71942	28.78	69081	32.73
03	9554781B	48172	20.82	79732	28.79	70973	32.74
04	9554782B	42421	20.82	63453	28.78	72861	32.73
05	9554784B	56354	20.81	84982	28.78	79889	32.73
06	9554785B	45111	20.81	73747	28.79	75809	32.74
07							
08							
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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. 235

9554784B
Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9365.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 236

9554784B
Field Blank

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9365.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.
9554784B
Field Blank

237

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: 9554784B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9365.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 5 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc	Q
1. 95-49-8	Benzene, 1-chloro-2-methyl-	5.70	9	J
2. 106-43-4	Benzene, 1-chloro-4-methyl-	5.93	2	J
3.	Unknown Hydrocarbon	8.09	5	J
4. 57-10-3	Hexadecanoic acid	23.51	12	J
5.	Unknown Hydrocarbon	32.46	2	J
6.				
7.				
8.				
9.				
10.				
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27.				
28.				
29.				
30.				

Quantitation Report

Data File : c:\hpchem\1\data2\b9365.d Vial: 8
Acq On : 11 Dec 95 10:38 pm Operator: SCOTTV
Sample : 54784..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 13 7:57 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	9768	40.00	ug/mL	-0.42
17) Naphthalene-d8	11.15	136	40944	40.00	ug/mL	-0.43
32) Acenaphthene-d10	16.41	164	27695	40.00	ug/mL	-0.43
50) Phenanthrene-d10	20.81	188	56354	40.00	ug/ml	-0.43
64) Chrysene-d12	28.78	240	84982	40.00	ug/mL	-0.46
73) Perylene-d12	32.73	264	79889	40.00	ug/mL	-0.42
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	3.74	112	12219	43.94	ug/mL	43.94%
3) Phenol-d5	6.93	99	11033	23.82	ug/mL	23.82%
18) Nitrobenzene-d5	9.15	82	26693	54.56	ug/mL	54.56%
36) 2-Fluorobiphenyl	14.63	172	45060	61.20	ug/mL	61.20%
54) 2,4,6-Tribromophenol	18.81	330	27462	110.73	ug/mL	110.73%
67) Terphenyl-d14	25.97	244	122402	52.23	ug/mL	52.23%
Target Compounds						Qvalue

(#) = qualifier out of range ( ) = [illegible]

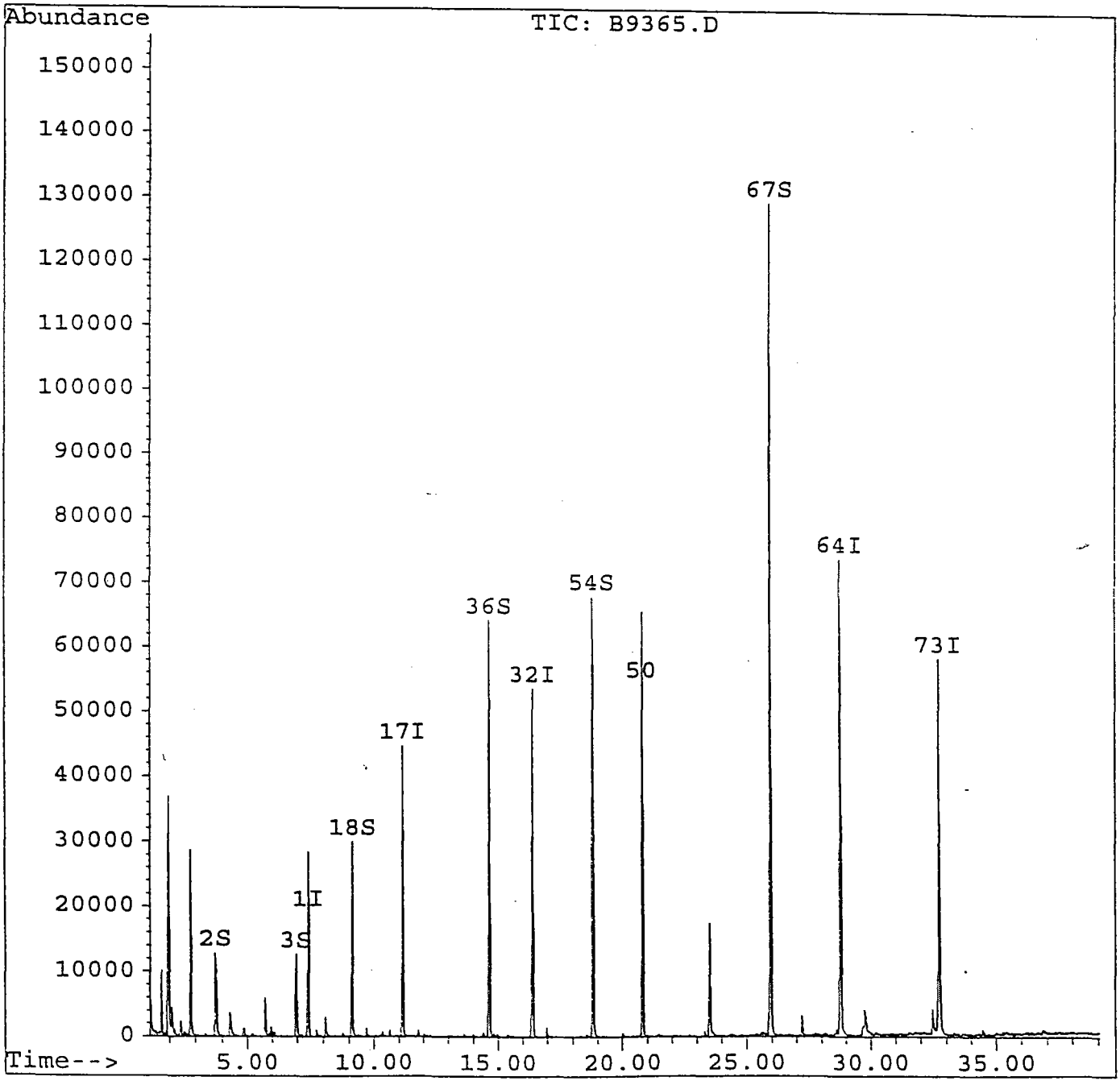
Quantitation Report

Data File : c:\hpchem\1\data2\b9365.d
Acq On : 11 Dec 95 10:38 pm
Sample : 54784.....
Misc :
Quant Time: Dec 13 7:57 1995

Converted from RTE d

Vial: 8
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



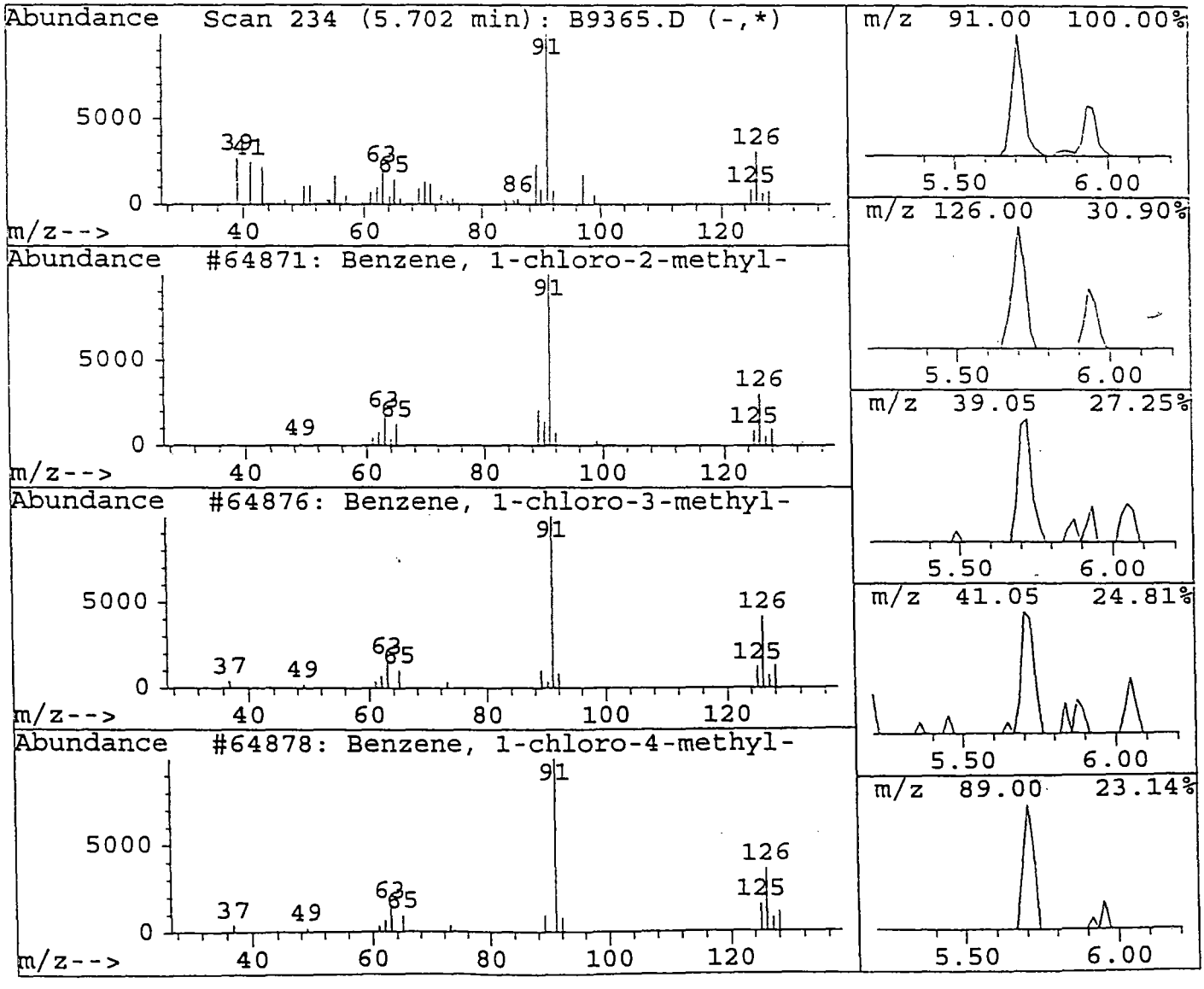
Library Search Compound Report

Data File : c:\hpchem\1\data2\b9365.d Vial: 8
Acq On : 11 Dec 95 10:38 pm Operator: SCOTTV
Sample : 54784..... Converted from RTE d Inst : ABNA
Misc : 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.
5.70	9.43 ug/mL	16397	1,4-Dichlorobenzene-d4	7.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-chloro-2-methyl-	64871	000095-49-8	93
2	Benzene, 1-chloro-3-methyl-	64876	000108-41-8	81
3	Benzene, 1-chloro-4-methyl-	64878	000106-43-4	64
4	Benzyl chloride	64872	000100-44-7	53
5	Benzaldehyde, 3-methyl-	3758	000620-23-5	43



Library Search Compound Report

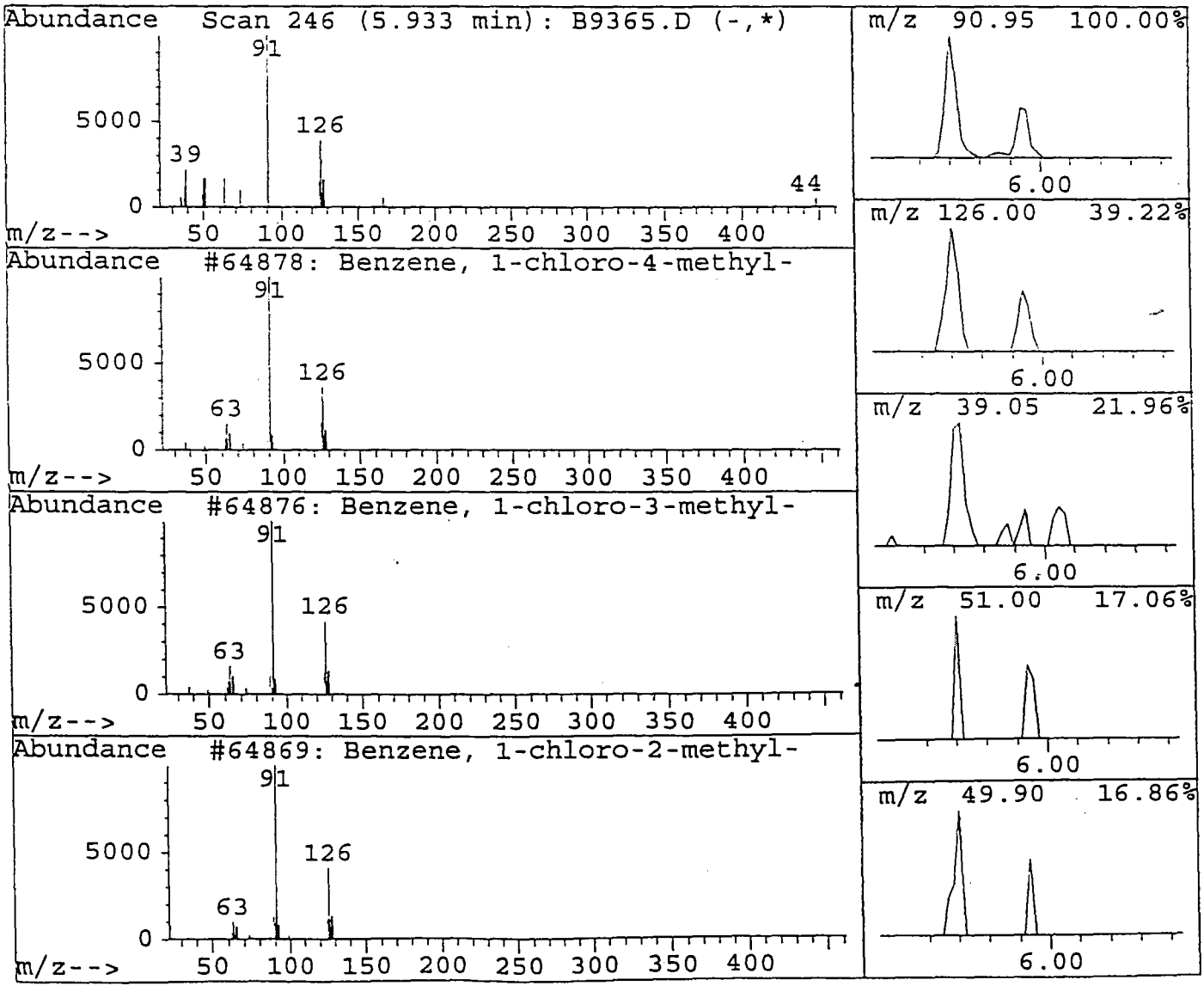
Data File : c:\hpchem\1\data2\b9365.d
Acq On : 11 Dec 95 10:38 pm
Sample : 54784.....
Misc :

Vial: 8
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.
5.93	2.44 ug/mL	4250	1,4-Dichlorobenzene-d4	7.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-chloro-4-methyl-	64878	000106-43-4	80
2	Benzene, 1-chloro-3-methyl-	64876	000108-41-8	80
3	Benzene, 1-chloro-2-methyl-	64869	000095-49-8	72
4	Benzyl chloride	4445	000100-44-7	9
5	2,4,6-Cycloheptatrien-1-one, 2,3-di	6155	053951-51-2	9



Library Search Compound Report

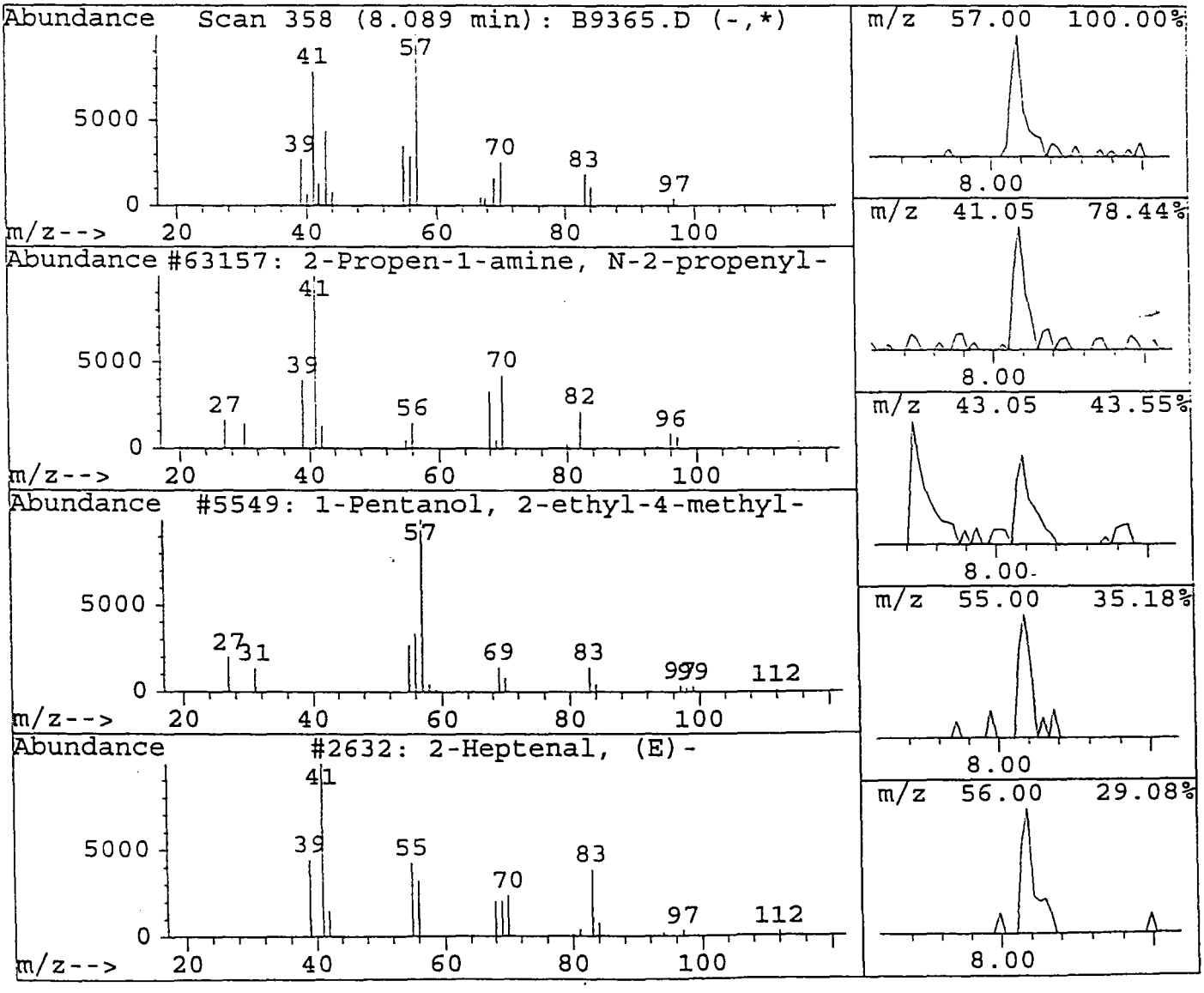
Data File : c:\hpchem\1\data2\b9365.d
Acq On : 11 Dec 95 10:38 pm
Sample : 54784.....
Misc :

Vial: 8
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.
8.09	4.81 ug/mL	8354	1,4-Dichlorobenzene-d4	7.42

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propen-1-amine, N-2-propenyl-	63157	000124-02-7	38
2	1-Pentanol, 2-ethyl-4-methyl-	5549	000106-67-2	38
3	2-Heptenal, (E)-	2632	018829-55-5	38
4	1-Heptanol, 6-methyl-	5544	001653-40-3	25
5	1-Propene, 3-(ethenyloxy)-	562	003917-15-5	16



Library Search Compound Report

Data File : c:\hpchem\1\data2\b9365.d
Acq On : 11 Dec 95 10:38 pm
Sample : 54784.....
Misc :

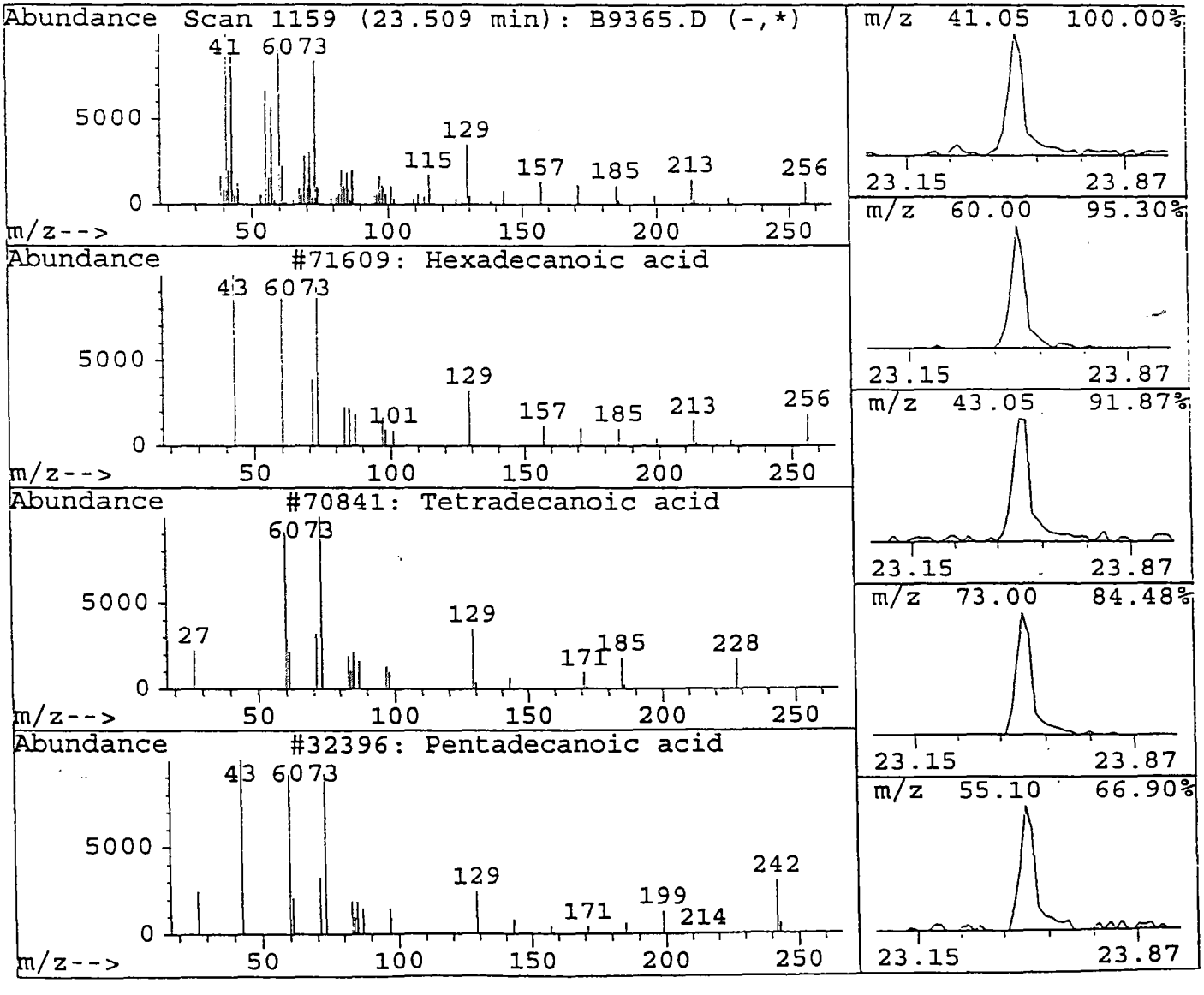
Converted from RTE d

Vial: 8
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.
23.51	12.43 ug/mL	54944	Phenanthrene-d10	20.81

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid	71609	000057-10-3	99
2	Tetradecanoic acid	70841	000544-63-8	83
3	Pentadecanoic acid	32396	001002-84-2	80
4	Tridecanoic acid	70343	000638-53-9	68
5	Dodecanamide, N,N-bis(2-hydroxyethy	40673	000120-40-1	58



Library Search Compound Report

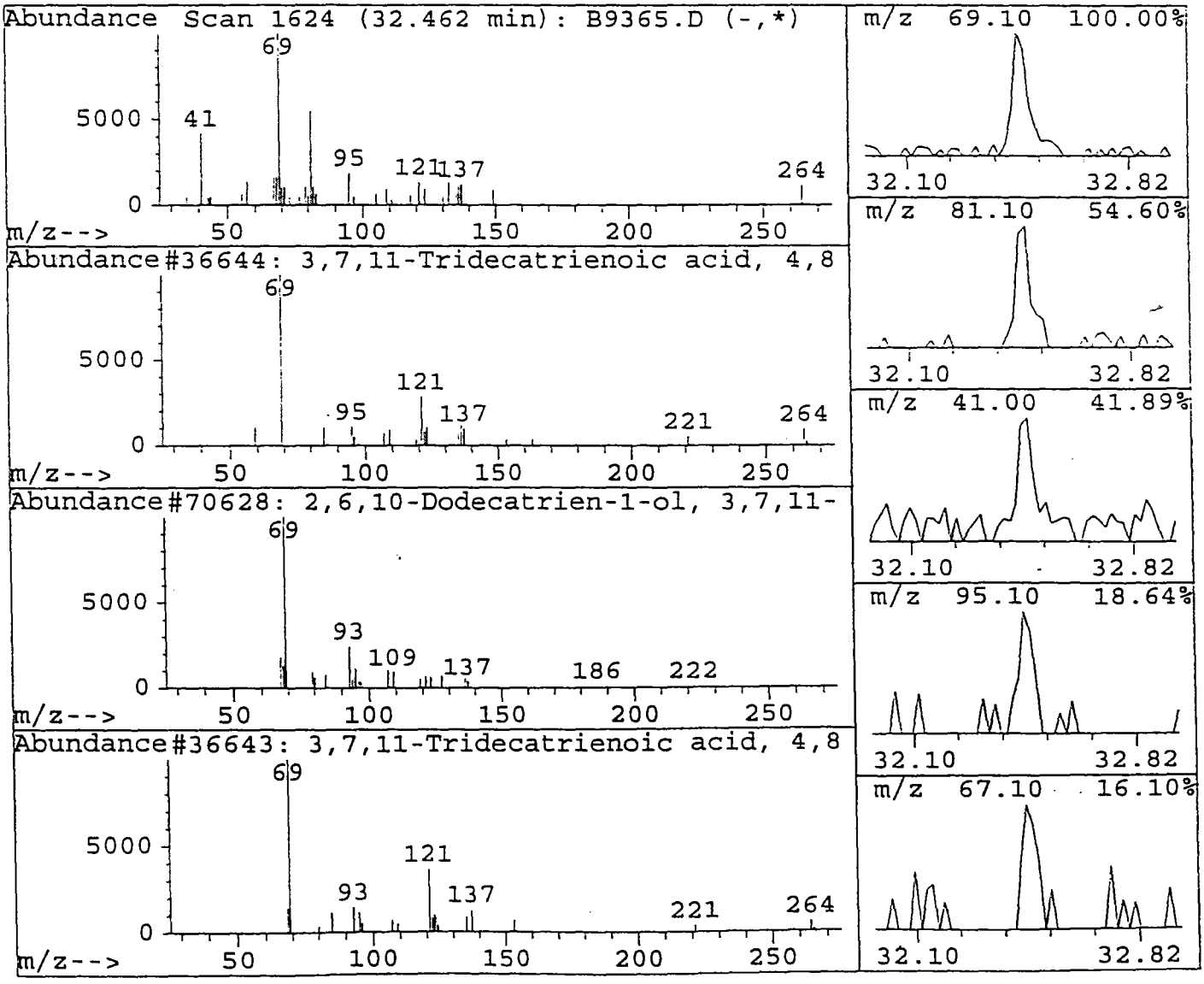
Data File : c:\hpchem\1\data2\b9365.d
Acq On : 11 Dec 95 10:38 pm
Sample : 54784.....
Misc :

Vial: 8
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.
32.46	2.38 ug/mL	12507	Perylene-d12	32.73

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,7,11-Tridecatrienoic acid, 4,8,12	36644	036237-70-4	80
2	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	70628	004602-84-0	59
3	3,7,11-Tridecatrienoic acid, 4,8,12	36643	036237-69-1	59
4	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	28214	003790-71-4	59
5	.Psi.,.psi.-Carotene, 7,7',8,8',11,	74689	000502-62-5	56



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 245

9554785B

NW3-293761

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9366.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 246

9554785B

MW2-293761

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9366.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.
9554785B
mw2-253764

247

Lab Name: EMSL ANALYTICAL Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: 9554785B

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9366.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

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

CAS Number	Compound Name	RT	Est. Conc	Q
1. 57-10-3	Hexadecanoic acid	23.53	28	J
2.	Unknown Hydrocarbon	32.47	4	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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30.				

Quantitation Report

Data File : c:\hpchem\1\data2\b9366.d Vial: 9
Acq On : 11 Dec 95 11:28 pm Operator: SCOTTV
Sample : 54785..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 13 7:58 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.41	152	8332	40.00	ug/mL	-0.42
17) Naphthalene-d8	11.15	136	34704	40.00	ug/mL	-0.43
32) Acenaphthene-d10	16.40	164	23555	40.00	ug/mL	-0.43
50) Phenanthrene-d10	20.81	188	45111	40.00	ug/ml	-0.44
64) Chrysene-d12	28.79	240	73747	40.00	ug/mL	-0.46
73) Perylene-d12	32.74	264	75809	40.00	ug/mL	-0.42
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	3.72	112	8413	35.47	ug/mL	35.47%
3) Phenol-d5	6.93	99	8613	21.80	ug/mL	21.80%
18) Nitrobenzene-d5	9.13	82	20158	48.61	ug/mL	48.61%
36) 2-Fluorobiphenyl	14.63	172	37341	59.63	ug/mL	59.63%
54) 2,4,6-Tribromophenol	18.81	330	23442	118.08	ug/mL	118.08%
67) Terphenyl-d14	25.97	244	126235	62.08	ug/mL	62.08%
Target Compounds						**Qvalue**

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

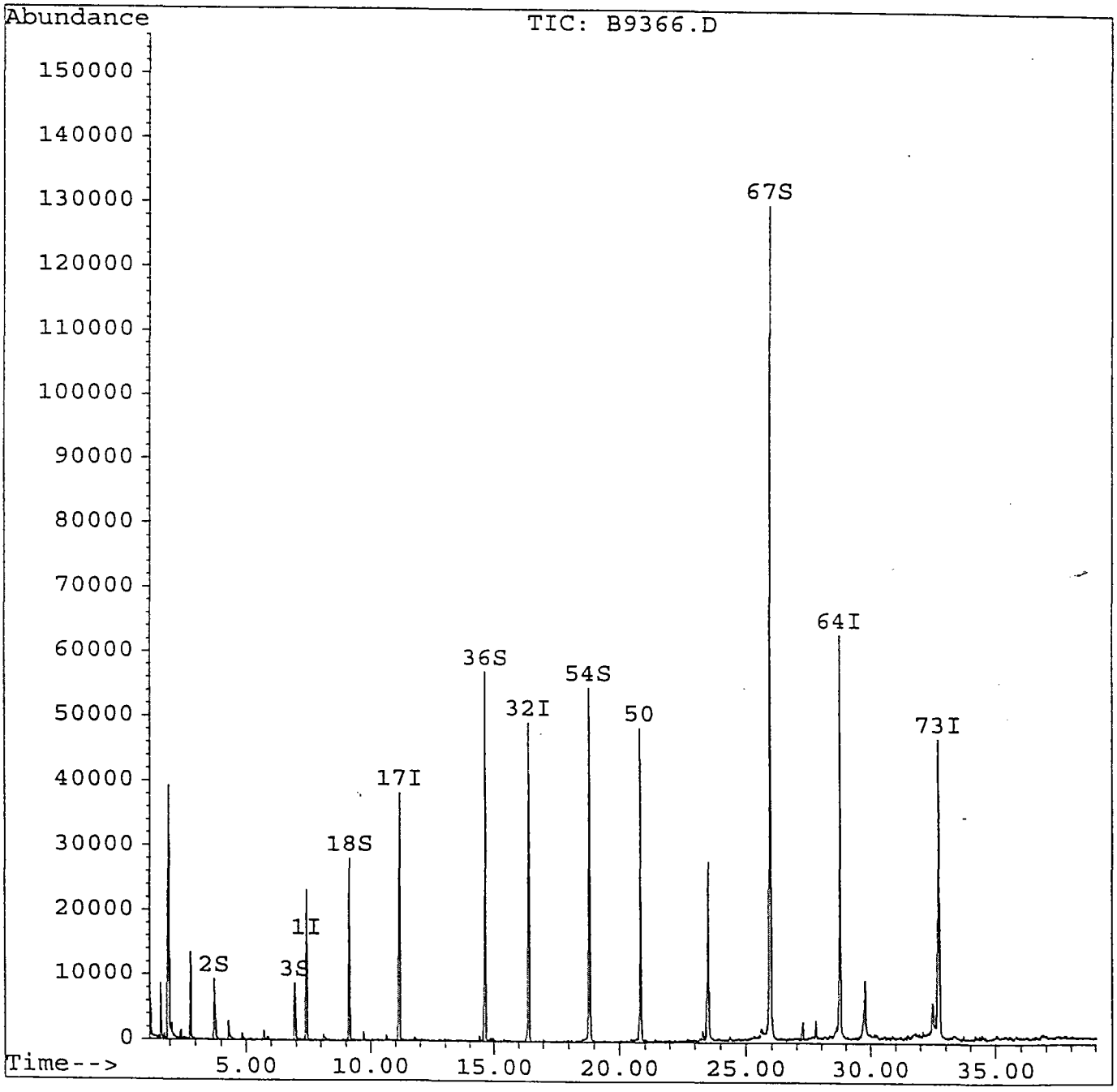
Quantitation Report

Data File : c:\hpchem\1\data2\b9366.d
Acq On : 11 Dec 95 11:28 pm
Sample : 54785.....
Misc :
Quant Time: Dec 13 7:58 1995

Converted from RTE d

Vial: 9
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



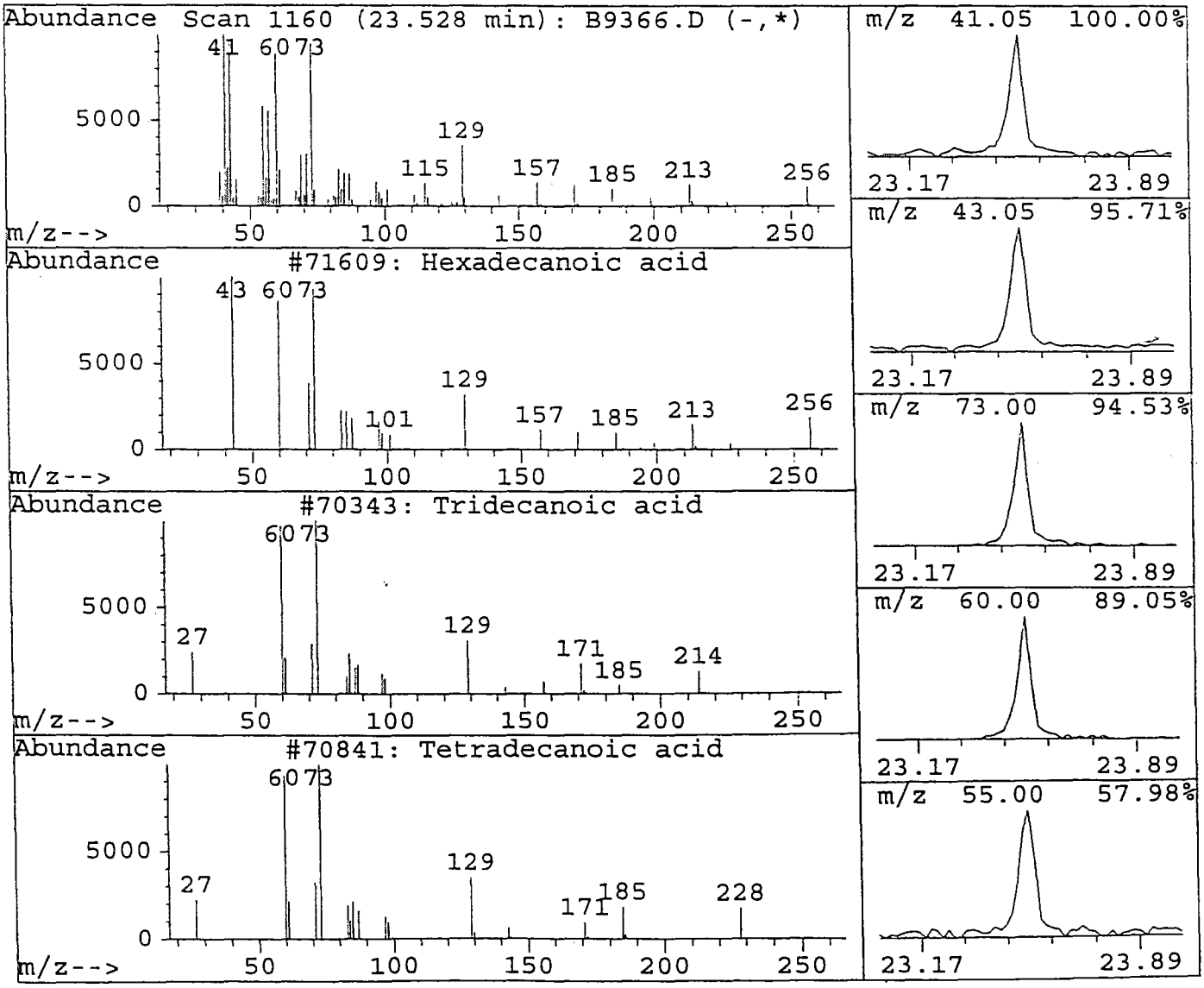
Library Search Compound Report

Data File : c:\hpchem\1\data2\b9366.d Vial: 9
Acq On : 11 Dec 95 11:28 pm Operator: SCOTTV
Sample : 54785..... Converted from RTE d Inst : ABNA
Misc : 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.
23.53	28.02 ug/mL	96919	Phenanthrene-d10	20.81

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid	71609	000057-10-3	98
2	Tridecanoic acid	70343	000638-53-9	90
3	Tetradecanoic acid	70841	000544-63-8	81
4	Pentadecanoic acid	32396	001002-84-2	80
5	Dodecanoic acid	22953	000143-07-7	72



Library Search Compound Report

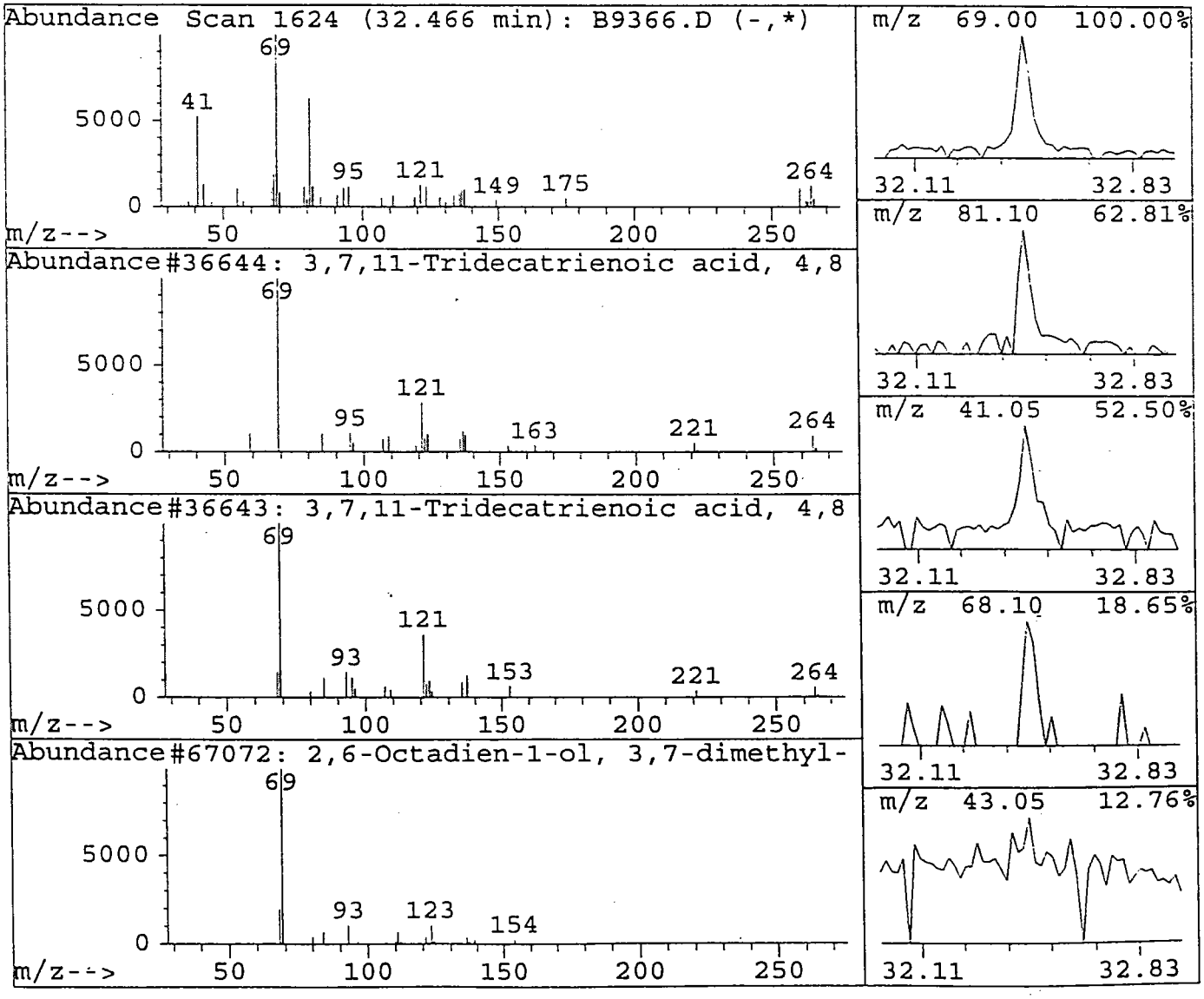
Data File : c:\hpchem\1\data2\b9366.d
Acq On : 11 Dec 95 11:28 pm
Sample : 54785.....
Misc :

Vial: 9
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.
32.47	4.25 ug/mL	19895	Perylene-d12	32.74

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3,7,11-Tridecatrienoic acid, 4,8,12	36644	036237-70-4	74
2	3,7,11-Tridecatrienoic acid, 4,8,12	36643	036237-69-1	64
3	2,6-Octadien-1-ol, 3,7-dimethyl-, (	67072	000106-24-1	50
4	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	28243	004602-84-0	50
5	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	28214	003790-71-4	45



2C

WATER SEMIVOLATILE SURROGATE RECOVERY

252

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										
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26										
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28										
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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

253

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			53	66		60			
02	ACIDBLK	24	14			57				
03	9554781B	16	8	46	47	52	56			
04	9554782B	10	6	53	67	25	60			
05	9554784B	22	12	55	61	55	52			
06	9554785B	18	11	49	60	59	62			
07										
08										
09										
10										
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30										

	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. 254

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. 255

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. 256

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

FORM I SV 3/90

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO. 257

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:

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.				
7.				
8.				
9.				
10.				
11.				
12.				
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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

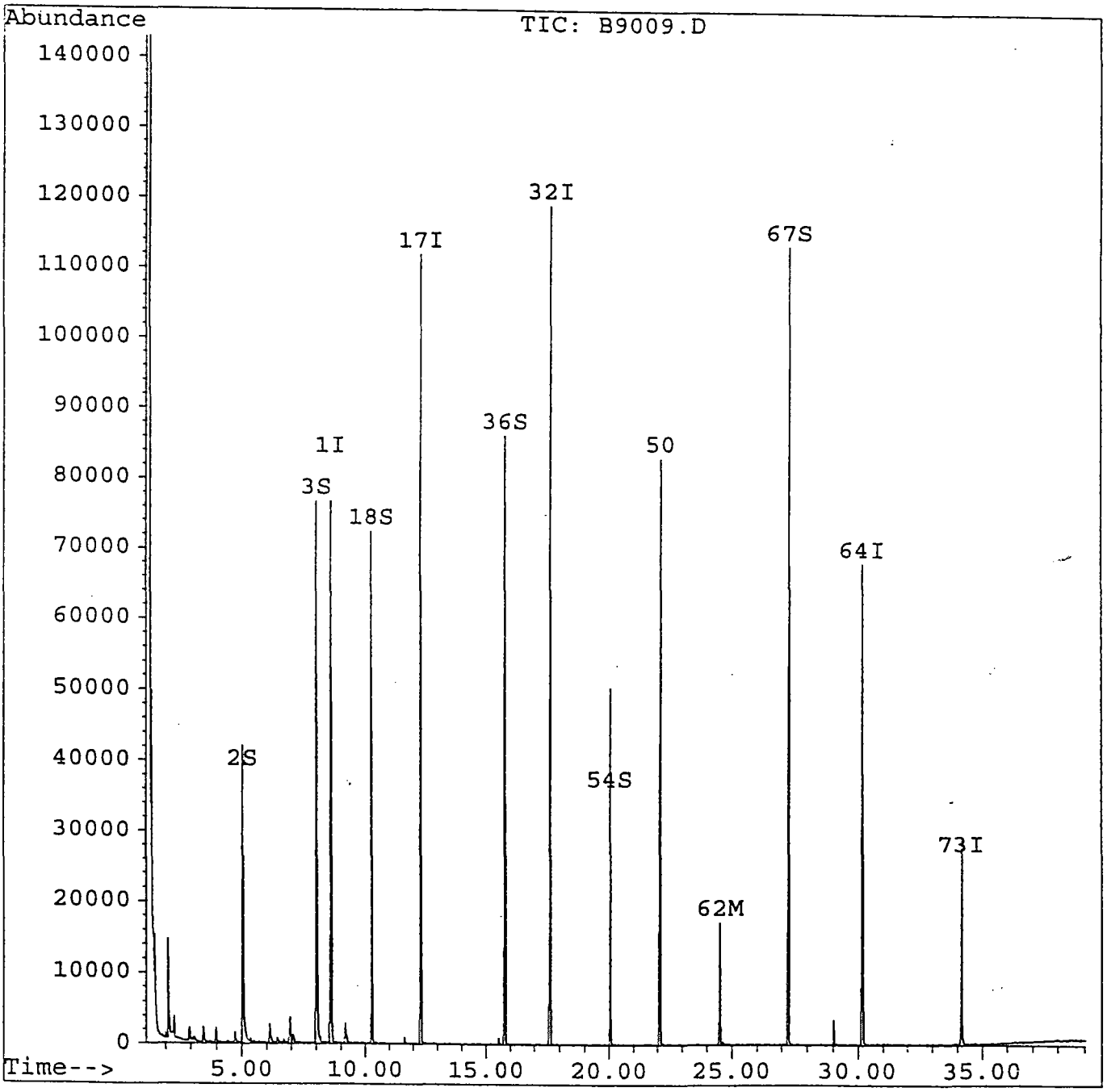
Quantitation Report

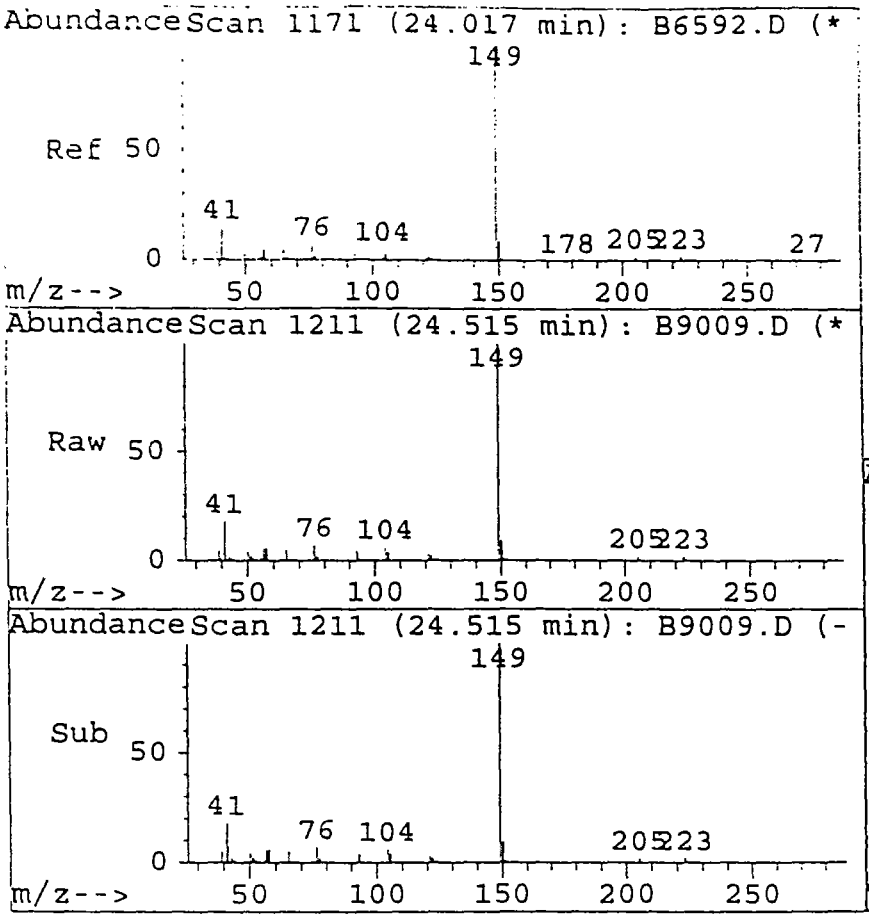
Data File : c:\hpchem\1\data2\b9009.d
Acq On : 27 Oct 95 2:21 pm
Sample : BLANK.....
Misc :
Quant Time: Oct 31 15:20 1995

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

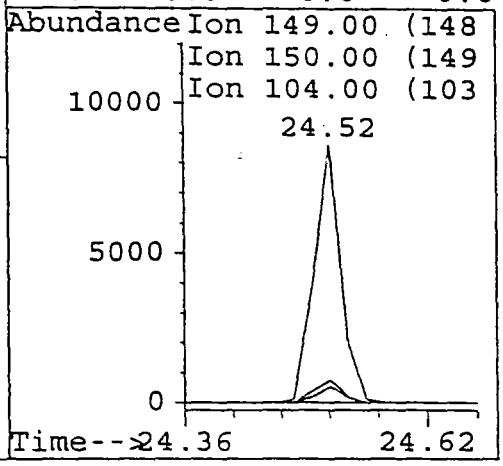




#62
Di-n-butylphthalate
Concen: 5.43 ug/mL
RT: 24.52 min Scan# 1211
Delta R.T. -0.12 min
Lab File: b9009.d
Acq: 27 Oct 95 2:21 pm

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 :

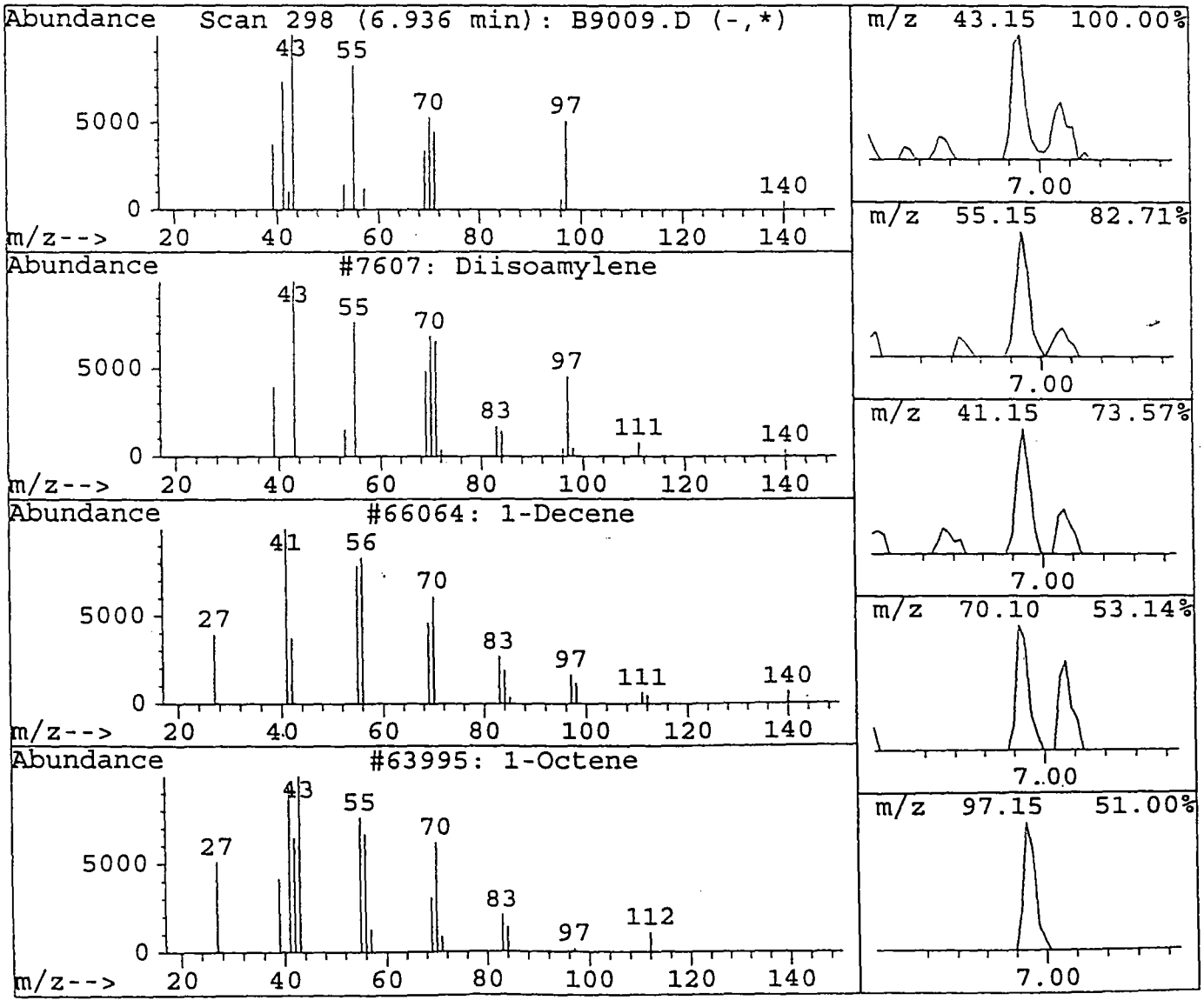
Converted from RTE d

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

SAMPLE NO. 262

SEMIVOLATILE METHOD BLANK SUMMARY

SBLK01

Lab Name: EMSL ANALYTICAL Contract: _____

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

Lab File ID: B9361.D Lab Sample ID: BLANK1

Instrument ID: ABNA Date Extracted: 12/4/95

Matrix: (soil/water) WATER Date Analyzed: 12/11/95

Level: (low/med) _____ Time Analyzed: 1915

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ACIDBLK	ACIDBLK	B9362.D	12/11/95
02	9554781B	9554781B	B9363.D	12/11/95
03	9554782B	9554782B	B9364.D	12/11/95
04	9554784B	9554784B	B9365.D	12/11/95
05	9554785B	9554785B	B9366.D	12/11/95
06				
07				
08				
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10				
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 203

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: B9361.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 204

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: B9361.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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. 265

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: B9361.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.				
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Quantitation Report

Data File : c:\hpchem\1\data2\b9361.d Vial: 4
Acq On : 11 Dec 95 7:15 pm Operator: SCOTTV
Sample : BN BLK..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 12 14:26 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	9092	40.00	ug/mL	-0.44
17) Naphthalene-d8	11.15	136	40071	40.00	ug/mL	-0.42
32) Acenaphthene-d10	16.41	164	28088	40.00	ug/mL	-0.43
50) Phenanthrene-d10	20.83	188	51601	40.00	ug/ml	-0.42
64) Chrysene-d12	28.78	240	73951	40.00	ug/mL	-0.46
73) Perylene-d12	32.73	264	86798	40.00	ug/mL	-0.42
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	0.00	112	0	0.00	ug/mL	0.00%
3) Phenol-d5	7.40	99	106	0.25	ug/mL	0.25%
18) Nitrobenzene-d5	9.13	82	25525	53.31	ug/mL	53.31%
36) 2-Fluorobiphenyl	14.64	172	49287	66.01	ug/mL	66.01%
54) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/mL	0.00%
67) Terphenyl-d14	25.97	244	122405	60.03	ug/mL	60.03%
Target Compounds						Qvalue

(#) = qualifier out of range (=)

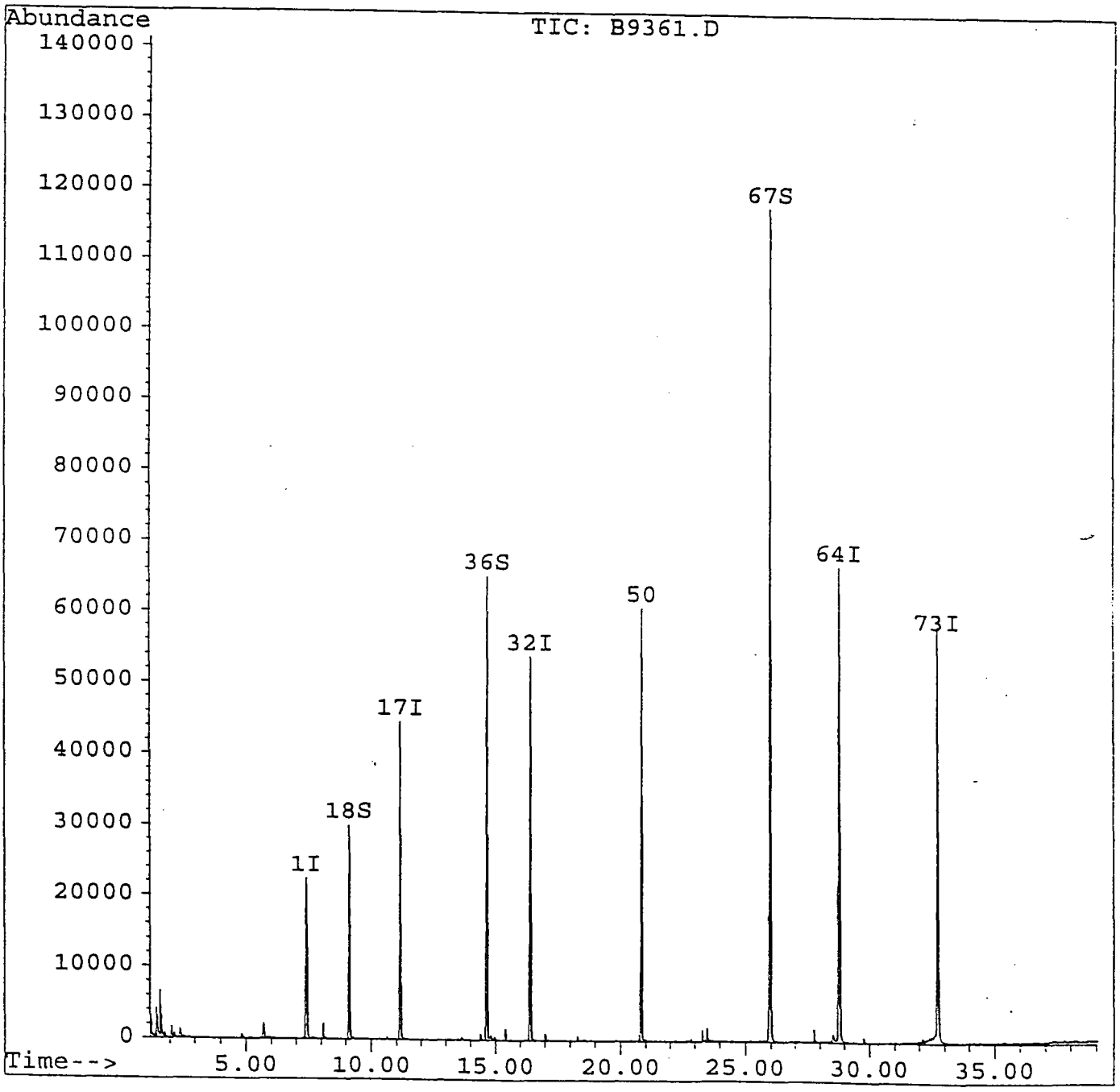
Quantitation Report

Data File : c:\hpchem\1\data2\b9361.d
Acq On : 11 Dec 95 7:15 pm
Sample : BN BLK.....
Misc :
Quant Time: Dec 12 14:26 1995

Converted from RTE d

Vial: 4
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



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 266

ACIDBLK

Lab Name: EMSL ANALYTICAL Contract: _____

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

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

Sample wt/vol: 1000.0 (g/mL ML Lab File ID: B9362.D

Level: (low/med) _____ Date Received: 11/28/95

% Moisture: _____ decanted: (Y/N): N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.
ACIDBLK

Lab Name: EMSL ANALYTICAL Contract:

Project No.: Site: Location: Group:

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

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B9362.D

Level: (low/med) Date Received: 11/28/95

% Moisture: decanted: (Y/N) N Date Extracted: 12/4/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/11/95

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.				
8.				
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30.				

Quantitation Report

Data File : c:\hpchem\1\data2\b9362.d Vial: 5
Acq On : 11 Dec 95 8:06 pm Operator: SCOTTV
Sample : AX BLK..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Dec 12 14:27 1995

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	8027	40.00	ug/mL	-0.44
17) Naphthalene-d8	11.15	136	34360	40.00	ug/mL	-0.42
32) Acenaphthene-d10	16.41	164	24053	40.00	ug/mL	-0.43
50) Phenanthrene-d10	20.81	188	49490	40.00	ug/ml	-0.43
64) Chrysene-d12	28.78	240	71942	40.00	ug/mL	-0.46
73) Perylene-d12	32.73	264	69081	40.00	ug/mL	-0.42
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	3.66	112	10762	47.09	ug/mL	47.09%
3) Phenol-d5	6.90	99	10695	28.10	ug/mL	28.10%
18) Nitrobenzene-d5	0.00	82	0	0.00	ug/mL	0.00%
36) 2-Fluorobiphenyl	0.00	172	0	0.00	ug/mL	0.00%
54) 2,4,6-Tribromophenol	18.81	330	24664	113.24	ug/mL	113.24%
67) Terphenyl-d14	0.00	244	0	0.00	ug/mL	0.00%
Target Compounds						**Qvalue**

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

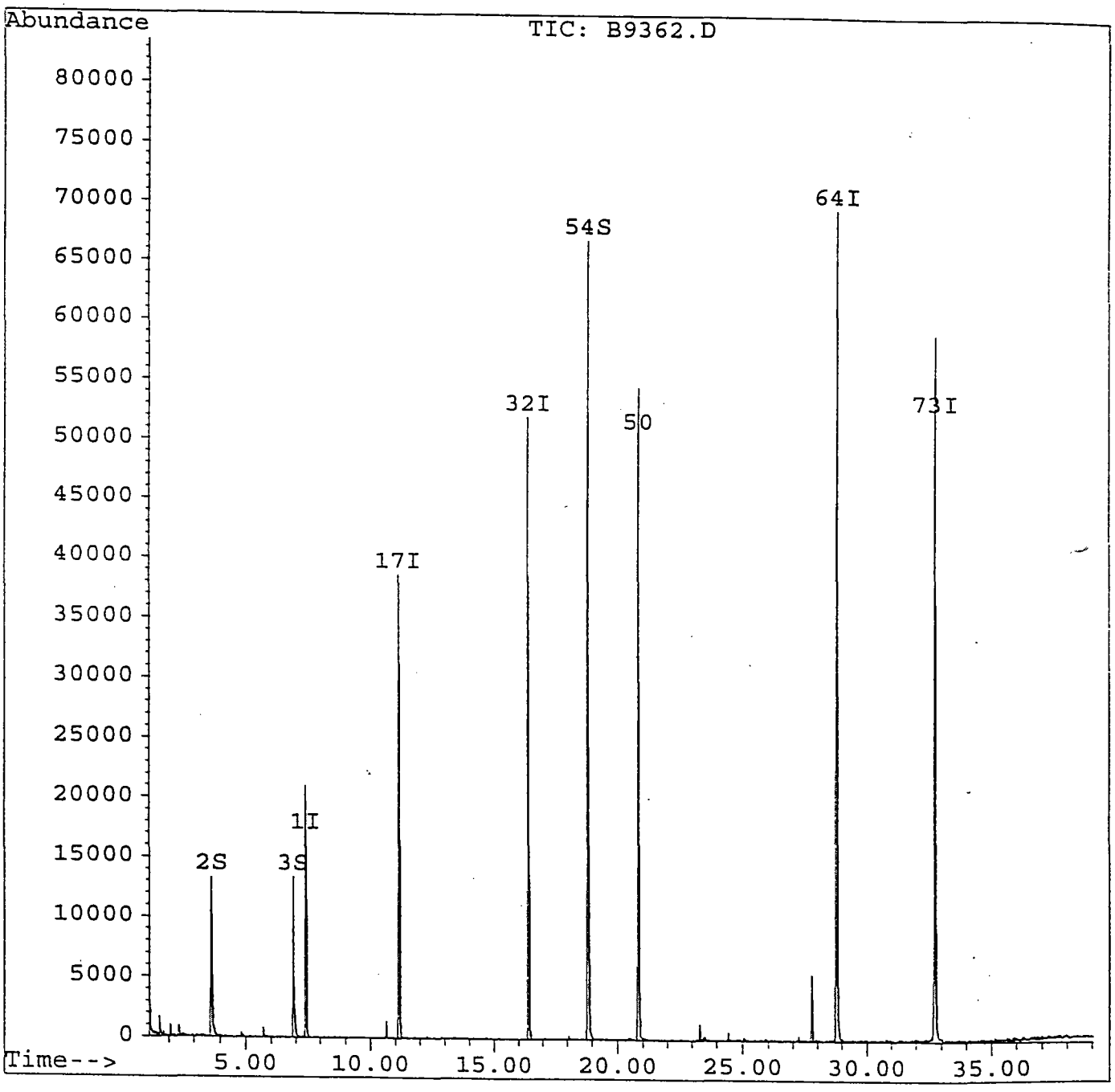
Quantitation Report

Data File : c:\hpchem\1\data2\b9362.d
Acq On : 11 Dec 95 8:06 pm
Sample : AX BLK.....
Misc :
Quant Time: Dec 12 14:27 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 Nov 22 12:21:54 1995
Response via : Multiple Level Calibration



Spike Recovery and RPD Summary Report - WATER

272

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

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

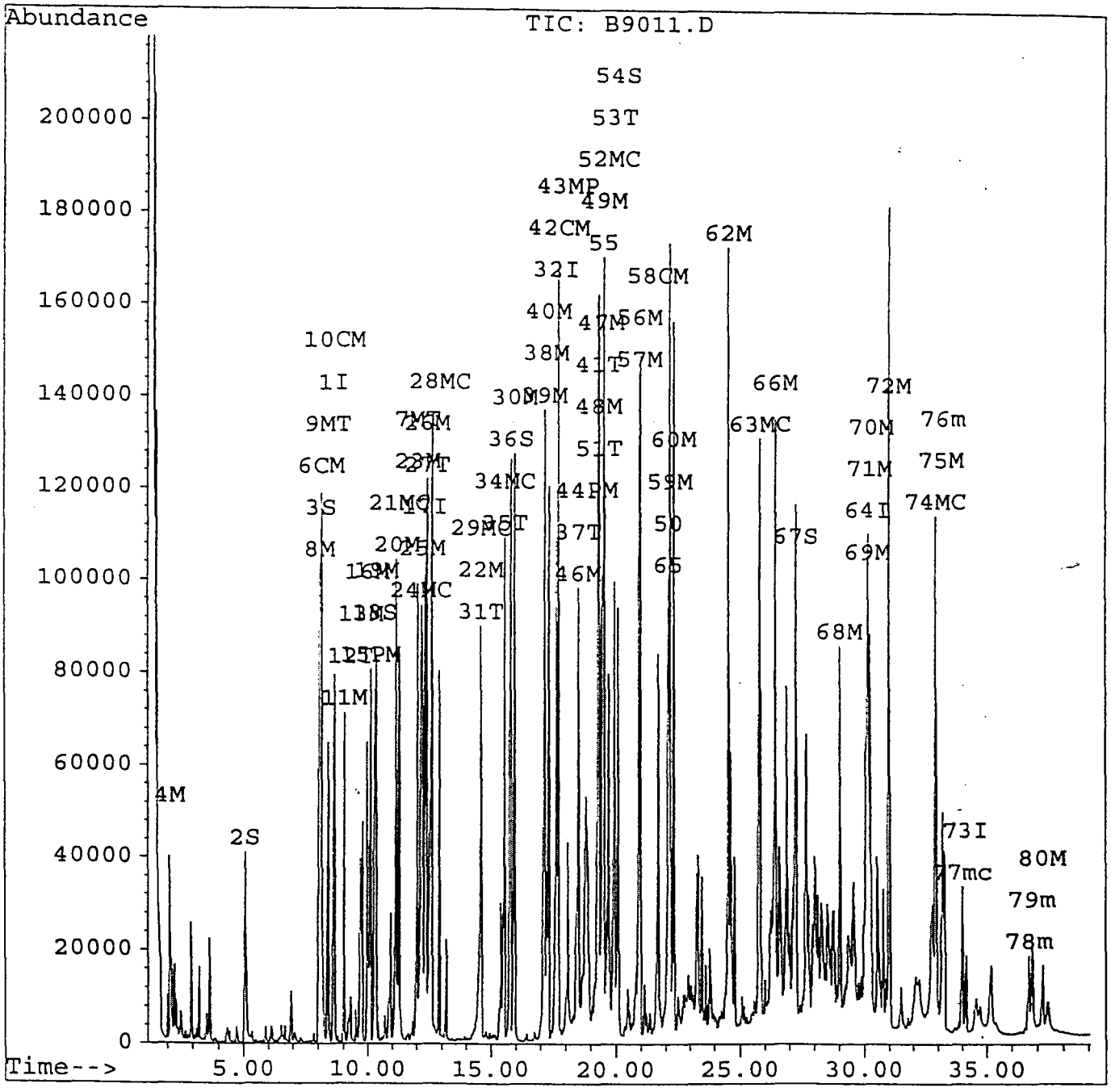
Quantitation Report

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..... Converted from RTE d
Misc :
Quant Time: Oct 31 15:38 1995

Vial: 6
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	8.60	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 Vial: 6
Acq On : 27 Oct 95 4:56 pm Operator: SCOTTV
Sample : 46360MSD..... Converted from RTE d Inst : ABNA
Misc : BT Multiplr: 1.00
Quant Time: Oct 31 15:38 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	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

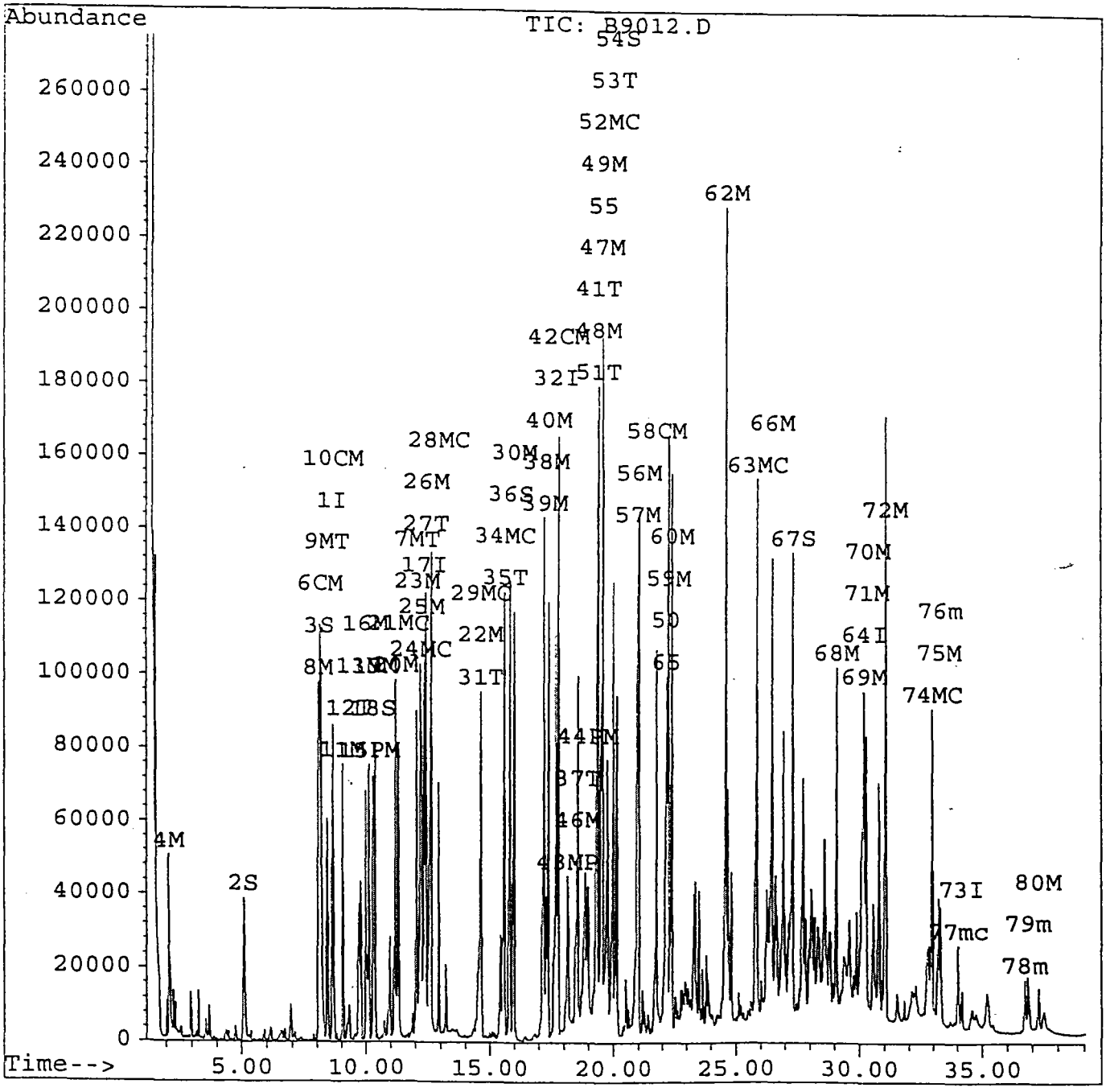
270

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

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 : Wed Oct 25 10:20:51 1995
Response via : Multiple Level Calibration



PESTICIDE/PCB DATA PACKAGE

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Ensr Analytical Contract: _____

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

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 10/4/95 _____

EPA Sample No.(PIBLK): _____ Date Analyzed : 10/22/95

Lab Sample ID (PIBLK): _____ Time Analyzed : 11:14

EPA Sample No.(INDA): _____ Date Analyzed : _____

Lab Sample ID (INDA): Pest Mix A 20ug/L Time Analyzed : _____

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	Calibration Factor	Calibration Factor	RT	%D
alpha-BHC	5.48	5.41	5.55	40171	40125	5.48	
gamma-BHC (Lindane)	6.31	6.24	6.38	44170	44049	6.30	
Heptachlor	8.35	8.28	8.42	62152	60554	8.35	3
Endosulfan I	11.79	11.72	11.86	56358	54638	11.79	
Dieldrin	12.64	12.58	12.72	107810	102543	12.64	5
Endrin	13.33	13.26	13.40	108492	102283	13.31	
4,4'-DDD	14.16	14.10	14.24	60770	59641	14.16	
4,4'-DDT	15.41	15.34	15.48	80070	78198	15.40	
Methoxychlor	17.47	17.40	17.54	336154	300717	17.47	10
Tetrachloro-m-xylene	4.58	4.51	4.65	53616	55446	4.58	
Decachlorobiphenyl	22.98	22.91	23.05	220058	212874	22.98	

EPA Sample No.(INDB): _____ Date Analyzed : 10/22/95

Lab Sample ID (INDB): Pest Mix B 20ug/L Time Analyzed : 11:48

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	Calibration Factor	Calibration Factor	RT	%D
beta-BHC	6.16	6.09	6.23	29225	29907	6.15	
delta-BHC	6.95	6.88	7.02	30598	32037	6.95	
Aldrin	9.39	9.31	9.45	50383	47628	9.38	
Heptachlor epoxide	10.65	10.58	10.72	55137	52576	10.66	
4,4'-DDE	12.79	12.73	12.87	99065	~~95380~~	12.79	6
Endosulfan II	13.64	13.57	13.71	98423	99402	13.64	
Endosulfan sulfate	15.16	15.03	15.17	85453	90950	15.08	6
Endrin ketone	16.53	16.46	16.60	111425	114596	16.53	
Endrin aldehyde	14.30	14.23	14.37	90874	89003	14.28	
alpha-Chlordane	11.94	11.87	12.01	58079	57238	11.92	
gamma-Chlordane	11.42	11.35	11.49	55689	57017	11.42	
Tetrachloro-m-xylene	4.58	4.51	4.65	47234	49203	4.58	
Decachlorobiphenyl	22.98	22.91	23.05	199470	200794	22.88	2

Lab Name: Emsl Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: 16-5

DATE(S) OF ANALYSIS FROM: 11/22/95 TO: 11/22/95
TIME(S) OF ANALYSIS FROM: 13:30 TO: 16:21

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
Aroclor 1016	7.93	7.86	8.00	239263				
Aroclor 1221	5.49	5.42	5.56	192467				
Aroclor 1232	7.93	7.86	8.00	107702				
Aroclor 1242	7.93	7.86	8.00	209041				
Aroclor 1248	7.93	7.86	8.00	136732				
Aroclor 1254	12.99	12.92	13.06	203476				
Aroclor 1260	17.80	17.73	17.87	442347				

Lab Name: Ensc Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: 1B-5

DATE(S) OF ANALYSIS FROM: 10/22/95 TO: 10/22/95
TIME(S) OF ANALYSIS FROM: 13:30 TO: 16:21

DATE OF ANALYSIS 10/22/95
TIME OF ANALYSIS 22:35
EPA SAMPLE NO. (STANDARD) 1194293

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	7.93	7.86	8.00	239263	7.93	244923		2
Aroclor 1221	5.49	5.42	5.56	192467				
Aroclor 1232	7.93	7.86	8.00	107702				
Aroclor 1242	7.93	7.86	8.00	209041				
Aroclor 1248	7.93	7.86	8.00	136732				
Aroclor 1254	12.99	12.92	13.06	203476				
Aroclor 1260	17.80	17.73	17.87	442347	17.80	466407		5

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Emsi Analytical Contract: _____

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

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 10/4/95 _____

EPA Sample No.(PIBLK): _____ Date Analyzed: 11/20/95

LAB Sample ID (PIBLK): _____ Time Analyzed: 12:24

EPA Sample No.(INDA): _____ Date Analyzed: 12/6/95

LAB Sample ID (INDA): Post Mix A 20ug/L Time Analyzed: 11:21

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	CALIBRATION FACTOR	RT	%D
alpha-BHC	5.56	5.49	5.63	38320	40964	5.57	7
gamma-BHC (Lindane)	6.46	6.39	6.53	42430	46116	6.46	9
Heptachlor	8.58	8.51	8.65	54790	62521	8.60	14
Endosulfan I	12.14	12.07	12.21	53718	55841	12.16	9
Dieldrin	13.03	12.96	13.10	102612	113458	13.03	11
Endrin	13.71	13.64	13.78	84609	106831	13.71	26
4,4'-DDD	14.58	14.51	14.65	54957	62187	14.58	13
4,4'-DDT	15.82	15.75	15.89	80128	93096	15.82	16
Methoxychlor	17.87	17.80	19.94	329368	378852	12.89	15
Tetrachloro-m-xylene	4.58	4.51	4.65	47913	53037	4.58	11
Decachlorobiphenyl	23.40	23.33	23.47	229552	252957	23.41	10

EPA Sample no. (INDB): _____ Date Analyzed: 11/20/95

LAB Sample ID: (INDB): Post Mix B 20ug/L Time Analyzed: 12:58

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	CALIBRATION FACTOR	RT	%D
beta-BHC	6.35	6.28	6.42	29234	30726	6.35	5
delta-BHC	7.21	7.14	7.28	32658	32127	7.21	2
Aldrin	9.65	9.58	9.72	45535	48918	9.65	7
Heptachlor epoxide	10.99	10.92	11.06	51331	55099	10.99	7
4,4'-DDE	13.18	13.11	13.25	~~203948494~~	91459	13.18	8
Endosulfan II	14.06	13.99	14.13	101304	105261	14.06	4
Endosulfan sulfate	15.53	15.46	15.60	96974	97210	15.53	0
Endrin ketone	17.00	16.93	17.07	117277	119471	17.00	2
Endrin aldehyde	14.73	14.66	14.80	90601	98423	14.71	9
alpha-Chlordane	12.29	12.22	12.36	54915	58517	12.29	7
gamma-Chlorodane	11.79	11.72	11.86	55062	59340	11.79	8
Tetrachloro-m-xylene	4.58	4.51	4.65	42962	46040	4.58	7
Decachlorobiphenyl	23.40	23.33	23.47	211184	225454	23.41	7

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Ensr Analytical Contract: _____

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

GC Column: DB-5 ID: 0.32 (mm) Init. Calib. Date(s): 10/4/95 _____

EPA Sample No.(PIBLK): _____ Date Analyzed: 11/20/95

LAB Sample ID (PIBLK): _____ Time Analyzed: 12:24

EPA Sample No.(INDA): _____ Date Analyzed: 12/7/95

LAB Sample ID (INDA): Pest Mix A 20ug/L Time Analyzed: 14:39

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	CALIBRATION FACTOR	RT	%D
alpha-BHC	5.56	5.49	5.63	38320	42314	5.55	10
gamma-BHC (Lindane)	6.46	6.39	6.53	42430	46124	6.46	9
Heptachlor	8.58	8.51	8.65	54790	53467	8.60	2
Endosulfan I	12.14	12.07	12.21	53718	56810	12.16	6
Dieldrin	13.03	12.96	13.10	102612	110016	13.03	7
Endrin	13.71	13.64	13.78	84609	104003	13.71	23
4,4'-DDD	14.58	14.51	14.65	54957	83310	14.58	52
4,4'-DDT	15.82	15.75	15.89	80128	130388	15.83	62
Methoxychlor	17.87	17.80	19.94	329368	341246	17.87	57
Tetrachloro-m-xylene	4.58	4.51	4.65	47913	53061	4.58	11
Decachlorobiphenyl	23.40	23.33	23.47	229552	244242	23.41	6

EPA Sample no. (INDB): _____ Date Analyzed: 11/20/95

LAB Sample ID: (INDB): Pest Mix B 20ug/L Time Analyzed: 12:58

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIB. FACTOR	CALIBRATION FACTOR	RT	%D
beta-BHC	6.35	6.28	6.42	29234	31229	6.35	7
delta-BHC	7.21	7.14	7.28	32658	35161	7.21	8
Aldrin	9.65	9.58	9.72	45535	48656	9.67	7
Heptachlor epoxide	10.99	10.92	11.06	51331	54784	10.99	7
4,4'-DDE	13.18	13.11	13.25	~~203484994~~	91261	13.18	7
Endosulfan II	14.06	13.99	14.13	101304	102970	14.06	2
Endosulfan sulfate	15.53	15.46	15.60	96974	97526	15.53	1
Endrin ketone	17.00	16.93	17.07	117277	86509	17.00	26
Endrin aldehyde	14.73	14.66	14.80	90601	82448	14.73	9
alpha-Chlordane	12.29	12.22	12.36	54915	57380	12.31	4
gamma-Chlorodane	11.79	11.72	11.86	55062	58211	11.79	6
Tetrachloro-m-xylene	4.58	4.51	4.65	42962	46235	4.58	8
Decachlorobiphenyl	23.40	23.33	23.47	211184	219254	23.41	4

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: 11/28/95 TO: 11/28/95
TIME(S) OF ANALYSIS FROM: 12:19 TO: _____
DATE OF ANALYSIS 12/6/95
TIME OF ANALYSIS 12:29
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
a-Chlordane	12.29	12.22	12.36	421729	12.29	429273	N	2
γ-Chlordane	11.77	11.70	11.84	412194	11.77	440891	N	7

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 11/28/95 TO: _____
TIME(S) OF ANALYSIS FROM: 12:19 TO: _____
DATE OF ANALYSIS 12/6/95
TIME OF ANALYSIS 12:29
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	12.71	12.64	12.78	394118	12.69	427148	N	8
a-chlordane	12.98	12.91	13.05	376813	12.92	401050	N	8

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: 12/6/95 TO: _____
TIME(S) OF ANALYSIS FROM: 13:03 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
Terphenyl	16.90	16.83	16.97	234461				

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 12/6/95 TO: _____
TIME(S) OF ANALYSIS FROM: 13:03 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
Terphenyl	18.02	17.95	18.09	263500				

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: 11/20/95 TO: _____
TIME(S) OF ANALYSIS FROM: 12:19 TO: _____
DATE OF ANALYSIS 12/8/95
TIME OF ANALYSIS 12:39
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
a-Chlordane	12.29	12.22	12.36	421725	12.29	426784	N	1
g-Chlordane	11.77	11.70	11.84	412194	11.77	423712	N	3

9

Lab Name: EMSL Analytical Contract: _____

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

Instrument ID: HP5890/II GC Column ID: DB-1701

DATE(S) OF ANALYSIS FROM: 11/28/95 TO: _____
TIME(S) OF ANALYSIS FROM: 12:19 TO: _____
DATE OF ANALYSIS 12/8/95
TIME OF ANALYSIS 12:39
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
g-chlordane	12.71	12.64	12.78	394118	12.69	404083	N	2
a-chlordane	12.98	12.91	13.05	370813	12.96	~~630~~ 367807	N	1

Lab Name: Ensr Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: 1B-5

DATE(S) OF ANALYSIS FROM: 11/28/95
TO: 11/28/95
TIME(S) OF ANALYSIS FROM: 13:27
TO: 16:18

DATE OF ANALYSIS 12/6/95
TIME OF ANALYSIS 13:37-16:28
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.17	8.10	8.24	213178	8.17	193251	N	9
Aroclor 1221	5.58	5.51	5.65	260395	5.58	238457	N	8
Aroclor 1232	8.17	8.10	8.24	90088	8.17	87311	N	3
Aroclor 1242	8.17	8.10	8.24	188702	8.17	194792	N	3
Aroclor 1248	8.17	8.10	8.24	119656	8.17	111074	N	7
Aroclor 1254	13.36	13.29	13.43	211431	13.36	187331	N	11
Aroclor 1260	18.22	18.15	18.29	478876	18.22	463648	N	3

Lab Name: Ensr Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: JB-5

DATE(S) OF ANALYSIS FROM: 11/28/95
TO: 11/28/95
TIME(S) OF ANALYSIS FROM: 13:27
TO: 16:18

DATE OF ANALYSIS 12/6/95
TIME OF ANALYSIS 22:08
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.17	8.10	8.24	213178	8.17	199098	N	7
Aroclor 1221	5.58	5.51	5.65	260395				
Aroclor 1232	8.17	8.10	8.24	90098				
Aroclor 1242	8.17	8.10	8.24	185702				
Aroclor 1248	8.17	8.10	8.24	119656				
Aroclor 1254	13.36	13.29	13.43	211431				
Aroclor 1260	18.22	18.15	18.29	478876	18.22	479575	N	0

9

Lab Name: Ense Analytical Contract: _____

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

Instrument ID: HP5890/SII GC Column ID: JB-5

DATE(S) OF ANALYSIS FROM: 11/28/95
TO: 11/28/95
TIME(S) OF ANALYSIS FROM: 13:27
TO: 16:18

DATE OF ANALYSIS 12/7/95
TIME OF ANALYSIS 04:22
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.17	8.10	8.24	213178				
Aroclor 1221	5.58	5.51	5.65	260395				
Aroclor 1232	8.17	8.10	8.24	90088				
Aroclor 1242	8.17	8.10	8.24	185702	8.17	176584	N	6
Aroclor 1248	8.17	8.10	8.24	119656				
Aroclor 1254	13.36	13.29	13.43	211431				
Aroclor 1260	18.22	18.15	18.29	478876				

9

Lab Name: Ensr Analytical Contract: _____

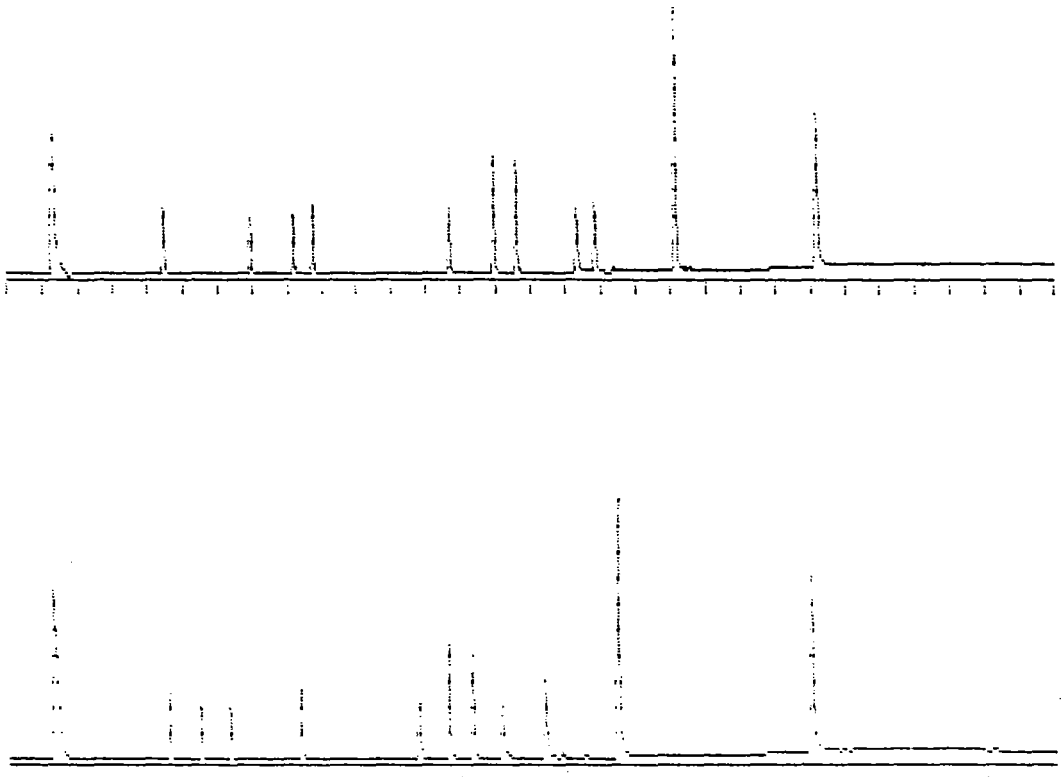
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: HP5890/5II GC Column ID: 16-5

DATE(S) OF ANALYSIS FROM: 11/28/95 TO: 11/28/95
TIME(S) OF ANALYSIS FROM: 13:27 TO: 16:18

DATE OF ANALYSIS 12/11/95
TIME OF ANALYSIS 8:57
EPA SAMPLE NO. (STANDARD) _____

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
Aroclor 1016	8.17	8.10	8.24	213178	8.17	200192	6	N
Aroclor 1221	5.58	5.51	5.65	260395				
Aroclor 1232	8.17	8.10	8.24	90088				
Aroclor 1242	8.17	8.10	8.24	188702				
Aroclor 1248	8.17	8.10	8.24	119656				
Aroclor 1254	13.36	13.29	13.43	211431				
Aroclor 1260	18.22	18.15	18.29	478876	18.22	417466	13	N



Channel Name [2]: 1-01 (A) Scale: 100 MV, Chart: 100 MM, Ch: 2
pest mix a Protected: 10-22-1995 11:46:10, Segment 4, Cycle: 4
RAW DATA SAVED in FILE D:\DC2204.PTI Second Channel Stored in D:\DC2204.PTI

EXTERNAL STANDARD TABLE

10-22-1995 11:46:05 Version 5.1.5

* Sample Name: pest mix a 20ug/l Data File: D:\DC2204 *
* Date: 10-22-1995 11:14:39 Method: M:\APE8-H 10-06-1995 08:01:24 # 075 *
* Interface: 1 Cycle#: 4 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: 130 for 4.0min then 4.0deg/min to 240, hold 30min *
* Detector 0: Detector 1: ECD *
* Misc. Information:

Starting Cell: 1.0 Ending Retention time: 30.01
Area Reject: 0.01 Amt Sample Pct: 1.000E-002
Amount Injected: 1.0 Dilution Factor: 1.0
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION In ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT RL	REF PEAK	% DELTA RET TIME	CONC/AREA

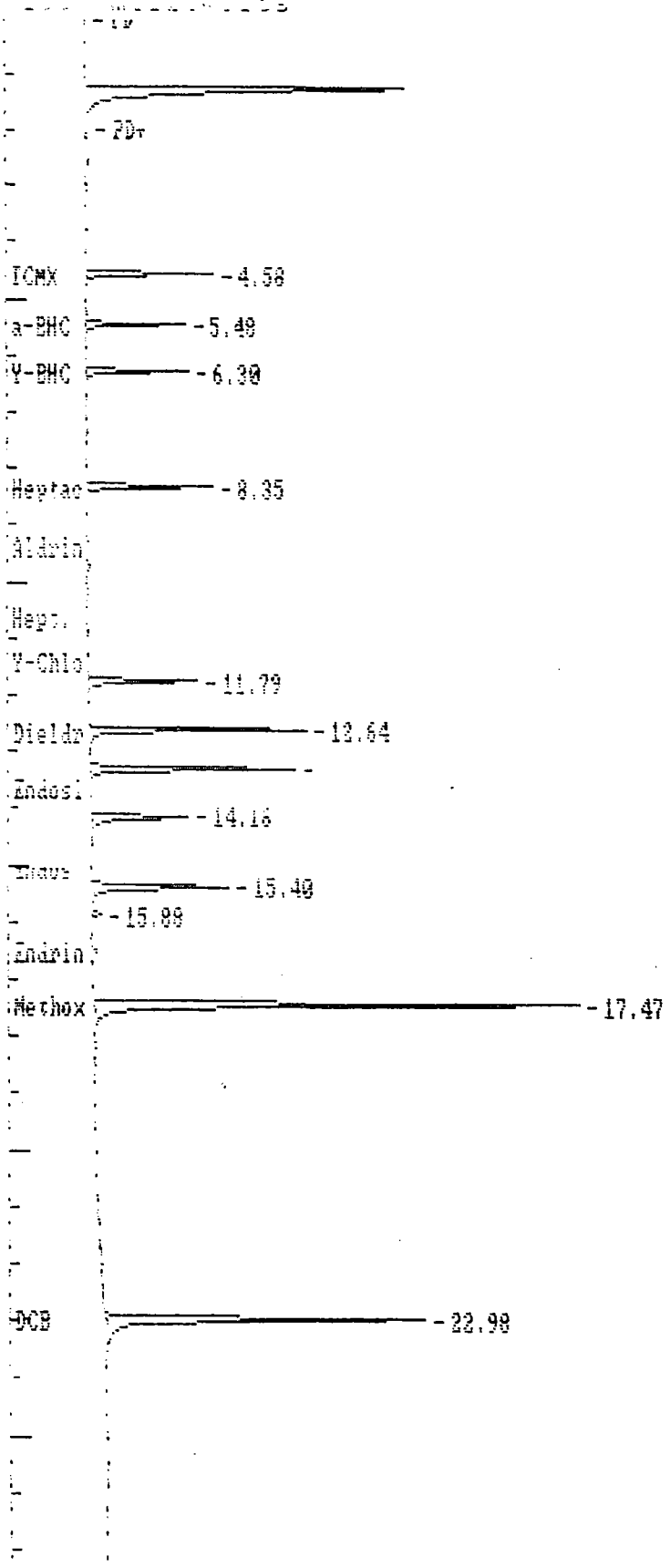
4	8.381	Heptachlor	18.5195	4.0483%	50554	14505	4.2	1	0	0	3.1611E-04
5	11.731	Endosulfan I	18.6198	4.0883%	54638	12626	4.3	1	1	0	3.4181E-04
6	12.641	Dieldrin	31.4742	7.1299%	101543	24994	4.1	1	0	-.1019	3.1689E-04
7	13.310	Endrin	34.2157	7.5119%	102280	20823	4.9	1	0	-.1253	3.3451E-04
8	14.162	4'4-DDD	33.0245	7.2506%	99541	11142	5.4	1	0	-.1177	5.5372E-04
9	15.097	DDT	34.3285	7.5371%	78198	15758	5.0	1	0	-.1382	4.3899E-04
10	16.882		0.0000	0.0000%	4674	1017	4.6	1			1.0331E-05
11	17.468	Methoxychlor	134.5805	40.5159%	331717	55616	5.4	1	0	0	4.1881E-04
12	18.373	DDE	47.9113	10.5171%	111874	26618	5.5	1	0	-.0	1.2811E-04

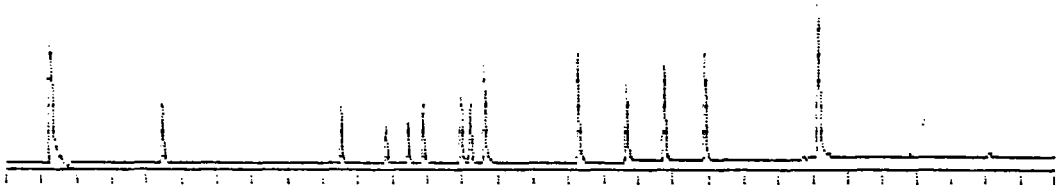
294

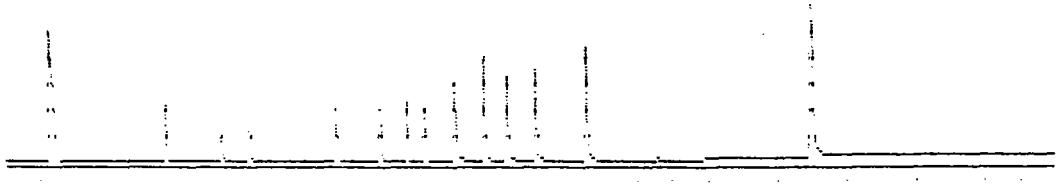
TOTAL AMOUNT = 455.4616

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:CC2204.ATS
Data File: [illegible] Printed on 10-22-1995 at 11:46:20
Start time: [illegible] Stop time: 30.01 min. Offset: 1 x
Full Range: [illegible]







Data File: D:0C2205.FID Scale: 10.4mV CH.A, 100 mV CH.B
Peak mix 2 processed on 10-22-1995 12:19:18, Segment 3, Cycle 5
RAW DATA SAVED IN FILE D:0C2205.FID Second Channel Stored in D:PC2205.FID

EXTERNAL STANDARD TABLE

10-22-1995 12:20:07 Version 5.1.5

Sample Name: peak mix b 20 ug/l Data File: D:0C2205

Date: 10-22-1995 11:43:45 Method: M:4720-H 10-0:-1995 05:01:24 # 373

Integrator 1 Cycle#: 5 Operator: FIL Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 10 Area Threshold: 1000

Instrument Type: Perkin-Elmer 3500 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 Cols, [illegible] Ending retention time: 31.00

[illegible] Dry Sample wt: 1.000 Grs.

Amount Injected: 1.00 Dilution Factor: 1.00

Sample Weight: 1.00000

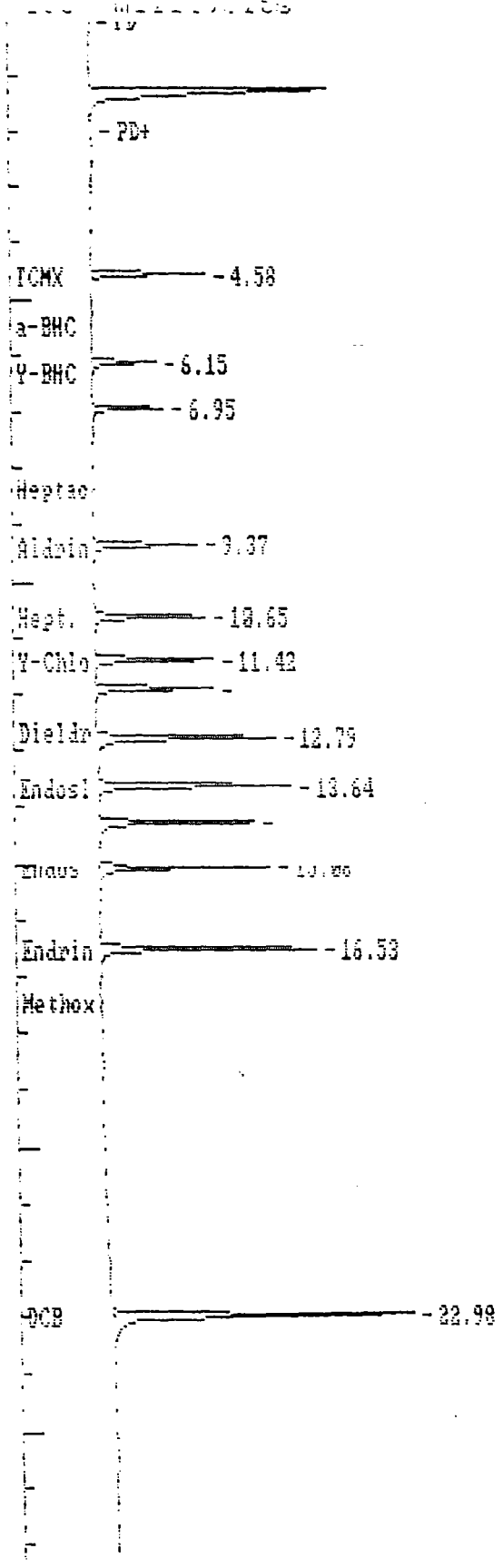
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION IN ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT RATIO	REF PEAK	% DELTA RET TIME	CONC/AREA

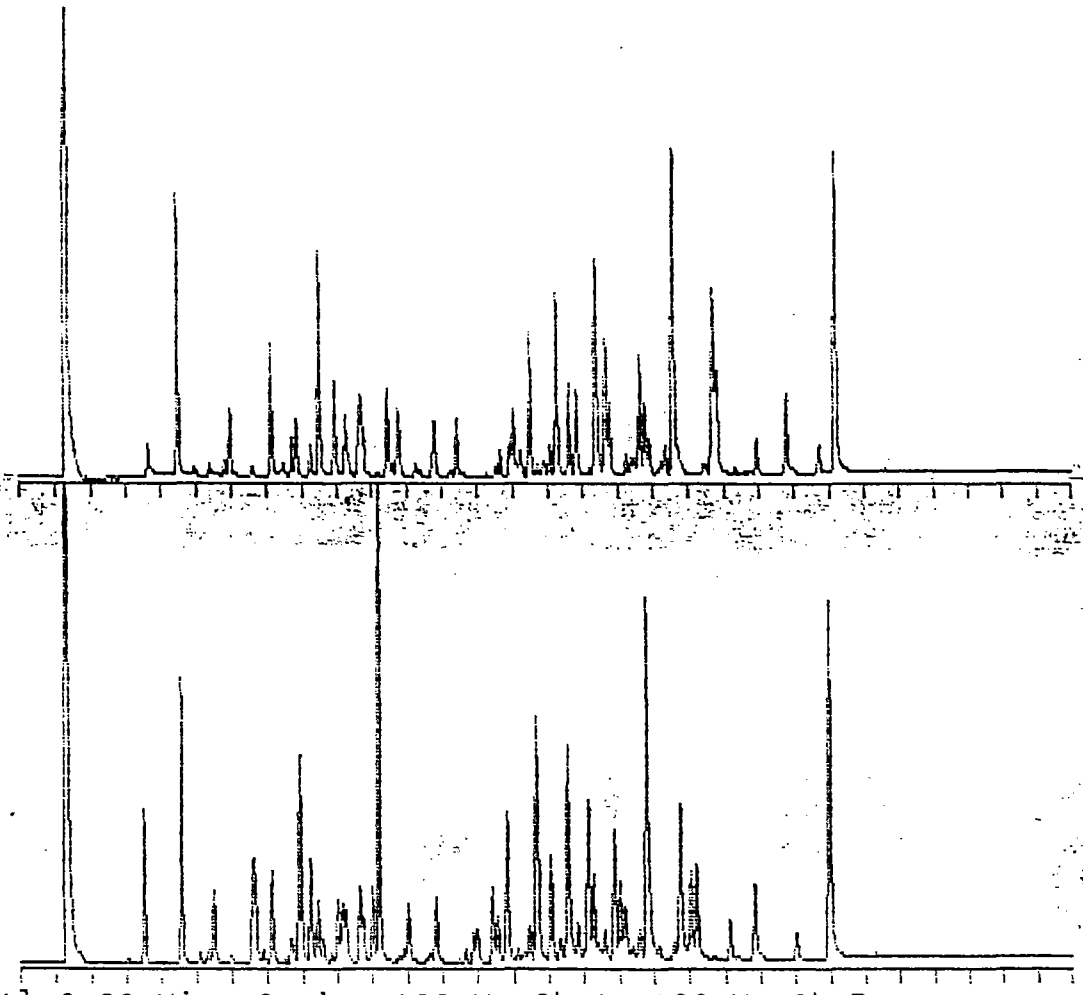
3	9.947	b-BHC	16.2011	4.5245%	32938	8014	4.0 1	0	0	5.0566E-04
4	9.369	Aldrin	17.4311	4.8762%	47625	11742	4.1 1	0	-.1779	3.6661E-04
5	10.555	Hept. epox.	18.8579	5.2665%	52516	12531	4.2 1	0	0	3.5909E-04
6	11.423	Y-Chlordane	18.5655	5.2129%	57233	13349	4.3 1	0	0	3.2611E-04
7	11.924	a-Chlordane	18.4495	5.1525%	57917	13383	4.3 1	0	-.1398	3.2358E-04
8	12.792	4,4-DDE	32.6629	9.1219%	92937	20260	4.6 1	0	-.1303	3.5145E-04
9	13.644	Endosulf II	36.4487	10.1792%	99402	22041	4.5 1	0	0	3.6668E-04
10	14.279	Endrin ald	39.2263	10.9495%	89023	17572	5.1 1	0	-.1168	4.4051E-04
11	15.080	Endos sulf	39.2134	10.9510%	90950	19321	4.7 1	0	-.1111	4.3115E-04
12	16.500	Endrin ket.	36.8124	10.2805%	114596	24686	4.6 1	0	0	3.2122E-04
13	22.979	DCB	45.1935	12.6196%	200794	34663	5.3 1	0	0	2.2508E-04

TOTAL AMOUNT = 358.0707

GROUP NUMBER　　GROUP AMOUNT　　GROUP PERCENT

Areas, times, and heights stored in: D:\DD1205.ATB
Data File = D:\DD1205.FTB Printed on 10-31-1995 at 11:20:25
Scan 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
pcb 1660 1 Processed: 10-22-1995 14:01:31, segment 8, cycle 8
RAW DATA SAVED IN FILE D:0C22D8.PTS Second Channel Stored in D:PC22D8.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 14:02:23 Version 5.1.5 **********
* Sample Name: pcb 1660 1ppm Data File: D:0C22D8 *
* Date: 10-22-1995 13:30:58 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* Interface: 1 Cycle#: 8 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

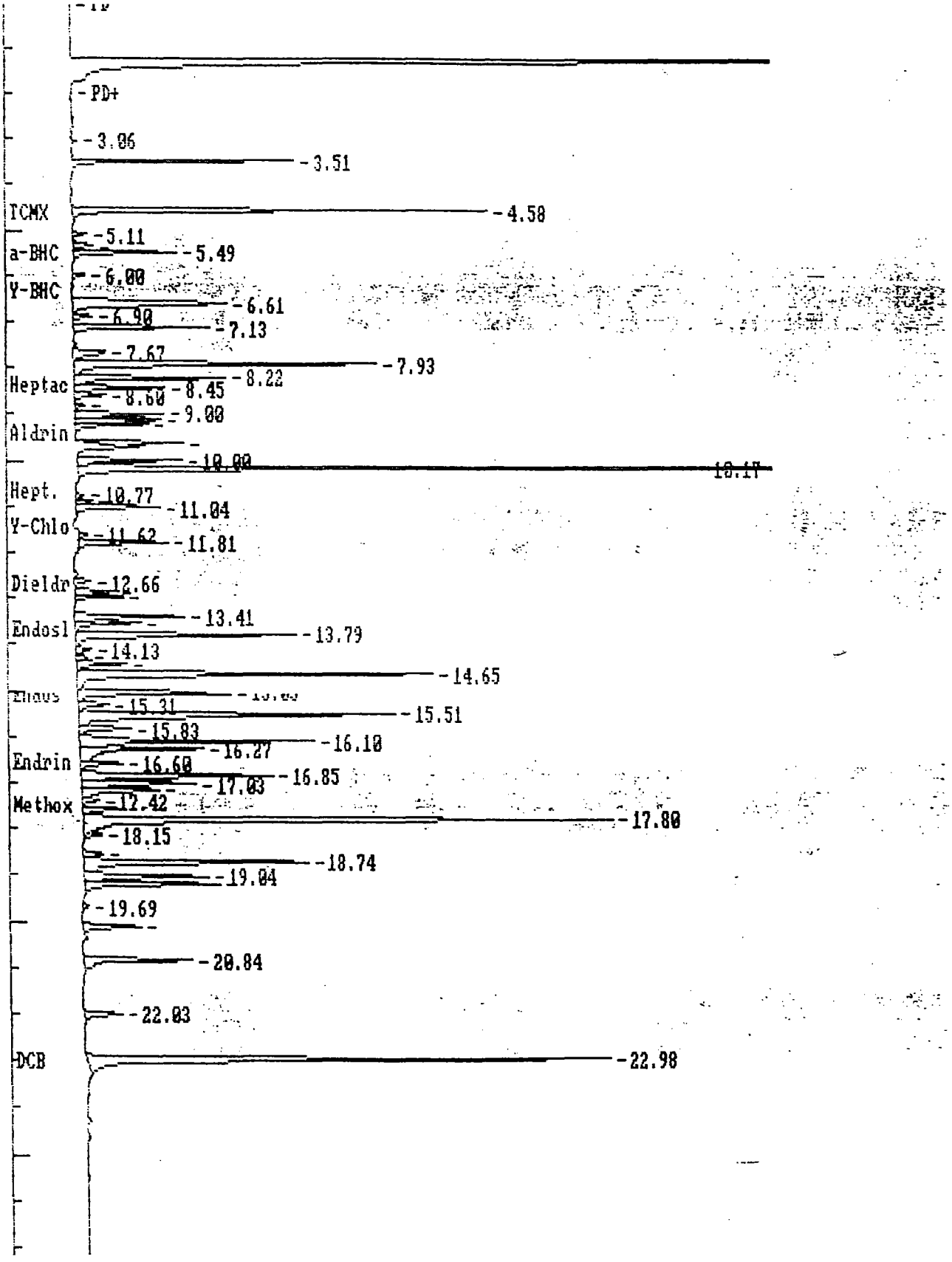
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

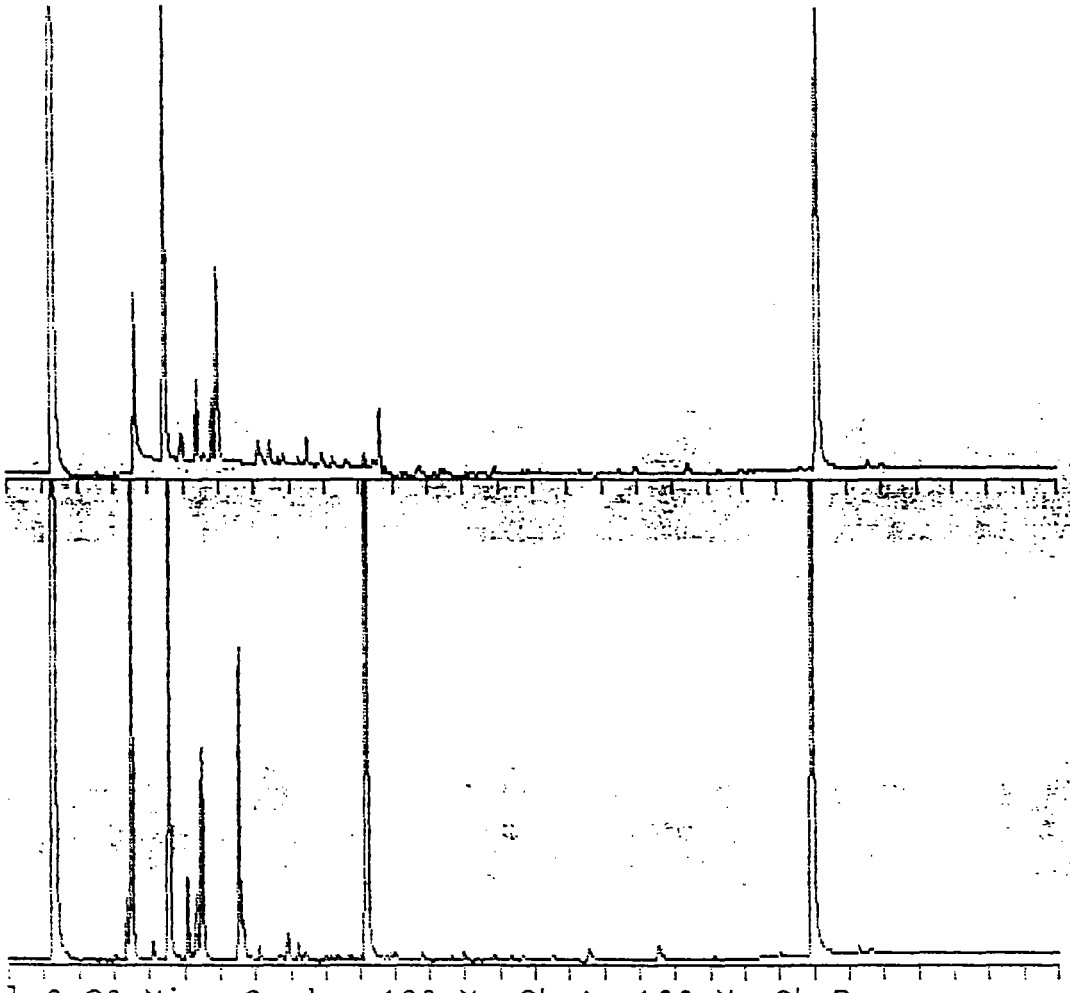
4	5.116		0.0000	0.0000%	9311	2105	4.4	2		1.0000E-09
5	5.361		0.0000	0.0000%	14093	2980	4.7	2		1.0000E-09
6	5.494	a-BHC	23.0823	4.2620%	63558	14521	4.4	2	0	.3048	3.6317E-04
7	5.995		0.0000	0.0000%	8428	1843	4.6	1			1.0000E-09
8	6.613		0.0002	0.0000%	173609	21597	8.0	2			1.0000E-09
9	6.897	d-BHC	6.2576	1.1554%	12375	2795	4.4	2	0	-.7211	5.0568E-04
10	7.131		0.0001	0.0000%	81933	18923	4.3	1			1.0000E-09
11	7.665		0.0000	0.0000%	32575	4609	7.1	2			1.0000E-09
12	7.932		0.0002	0.0000%	239263	42863	5.6	2			1.0000E-09
13	8.216		0.0001	0.0000%	108847	21210	5.1	2			1.0000E-09
14	8.450	Heptachlor	19.3053	3.5646%	63089	12762	4.9	2	0	1.199	3.0609E-04
15	8.600		0.0000	0.0000%	21601	4417	4.9	2			1.0000E-09
16	8.834		0.0000	0.0000%	6985	1575	4.4	2			1.0000E-09
17	9.001		0.0001	0.0000%	61829	12503	4.9	2			1.0000E-09
18	9.135		0.0001	0.0000%	54341	12105	4.5	2			1.0000E-09
19	9.235	Aldrin	20.4296	3.7722%	55727	10334	5.4	2	0	-1.601	3.6660E-04
20	9.636		0.0000	0.0000%	40480	10747	3.8	1			1.0000E-09
21	10.003		0.0001	0.0000%	76135	14716	5.2	2			1.0000E-09
22	10.170		0.0006	0.0001%	556793	141603	3.9	2			1.0000E-09
23	10.771	Hept. epox.	2.1503	0.3970%	5988	1305	4.6	2	0	1.097	3.5909E-04
24	10.905		0.0000	0.0000%	10969	2323	4.7	2			1.0000E-09
25	11.039		0.0001	0.0000%	59079	11805	5.0	2			1.0000E-09
26	11.623	Y-Chlordane	2.4972	0.4611%	7658	1382	5.5	2	0	-1.754	3.2611E-04
27	11.807	Endosulfan I	20.9964	3.8768%	61609	12666	4.9	2	0	.1416	3.4080E-04
28	12.659	Dieldrin	3.4648	0.6397%	10941	2344	4.7	2	0	0	3.1569E-04
29	12.876	4,4-DDE	9.6482	1.7815%	27452	5759	4.8	2	0	.5215	3.5145E-04
30	12.993		0.0000	0.0000%	35118	6837	5.1	2			1.0000E-09
31	13.410	Endrin	25.2843	4.6686%	75588	15430	4.9	2	0	.6265	3.3450E-04
32	13.560	Endoslf II	17.8441	3.2948%	48664	9247	5.3	2	0	-.6119	3.6668E-04
33	13.794		0.0002	0.0000%	177123	31058	5.7	2			1.0000E-09
34	14.128	4'4-DDD	6.0014	1.1081%	10838	2164	5.0	2	0	-.3533	5.5372E-04
35	14.312	Endrin ald	4.6436	0.8574%	10541	1697	6.2	2	0	.1168	4.4051E-04
36	14.445		0.0000	0.0000%	36306	7178	5.1	2			1.0000E-09
37	14.646		0.0003	0.0001%	294508	50457	5.8	2			1.0000E-09
38	15.047	Endos sulf	54.9123	10.1392%	127361	21465	5.9	2	0	-.3318	4.3115E-04
39	15.314		0.0000	0.0000%	25796	4316	6.0	2			1.0000E-09
40	15.514	DDT	122.2050	22.5644%	278375	44827	6.2	2	0	.6500	4.3899E-04
41	15.832		0.0000	0.0000%	41900	7334	5.7	2			1.0000E-09
42	16.099		0.0002	0.0000%	176970	33276	5.3	2			1.0000E-09
43	16.266		0.0001	0.0000%	110207	17420	6.3	2			1.0000E-09
44	16.600	Endrin ket.	10.7505	1.9850%	33457	6016	5.6	2	0	.3533	3.2132E-04
45	16.850		0.0001	0.0000%	137250	27078	5.1	2			1.0000E-09
46	17.034		0.0001	0.0000%	84336	16149	5.2	2			1.0000E-09
47	17.168		0.0001	0.0000%	72172	11008	6.6	2			1.0000E-09
48	17.418	Methoxychlor	9.8739	1.8232%	16087	2469	6.5	2	0	-.2868	6.1380E-04
49	17.585		0.0000	0.0000%	31311	5650	5.5	2			1.0000E-09
50	17.802		0.0004	0.0001%	442347	75198	5.9	3			1.0000E-09
51	18.153		0.0000	0.0000%	11924	2378	5.0	4			1.0000E-09
52	18.570		0.0000	0.0000%	17268	2964	5.8	2			1.0000E-09
53	18.737		0.0002	0.0000%	197871	31901	6.2	2			1.0000E-09
54	19.038		0.0001	0.0000%	87748	17501	5.0	2			1.0000E-09
55	19.205		0.0001	0.0000%	108223	19016	5.7	2			1.0000E-09
56	19.689		0.0000	0.0000%	4603	839	5.5	1			1.0000E-09
57	20.140		0.0000	0.0000%	43842	8235	5.3	1			1.0000E-09
58	20.842		0.0001	0.0000%	95164	15449	6.2	1			1.0000E-09
59	22.027		0.0000	0.0000%	29151	5312	5.5	1			1.0000E-09
60	22.979	DCB	94.9192	17.5262%	421818	74235	5.7	1	0	0	2.2502E-04

TOTAL AMOUNT = 541.5844

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D8.AT8
Data File = D:0C22D8.PTS Printed on 10-22-1995 at 14:02:46
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
pcb 1221 2 Processed: 10-22-1995 14:35:37, segment 9, cycle 9
RAW DATA SAVED IN FILE D:0C22D9.PTS Second Channel Stored in D:PC22D9.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 14:36:29 Version 5.1.5 **********
* Sample Name: pcb 1221 2 ppm Data File: D:0C22D9 *
* Date: 10-22-1995 14:04:58 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* 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

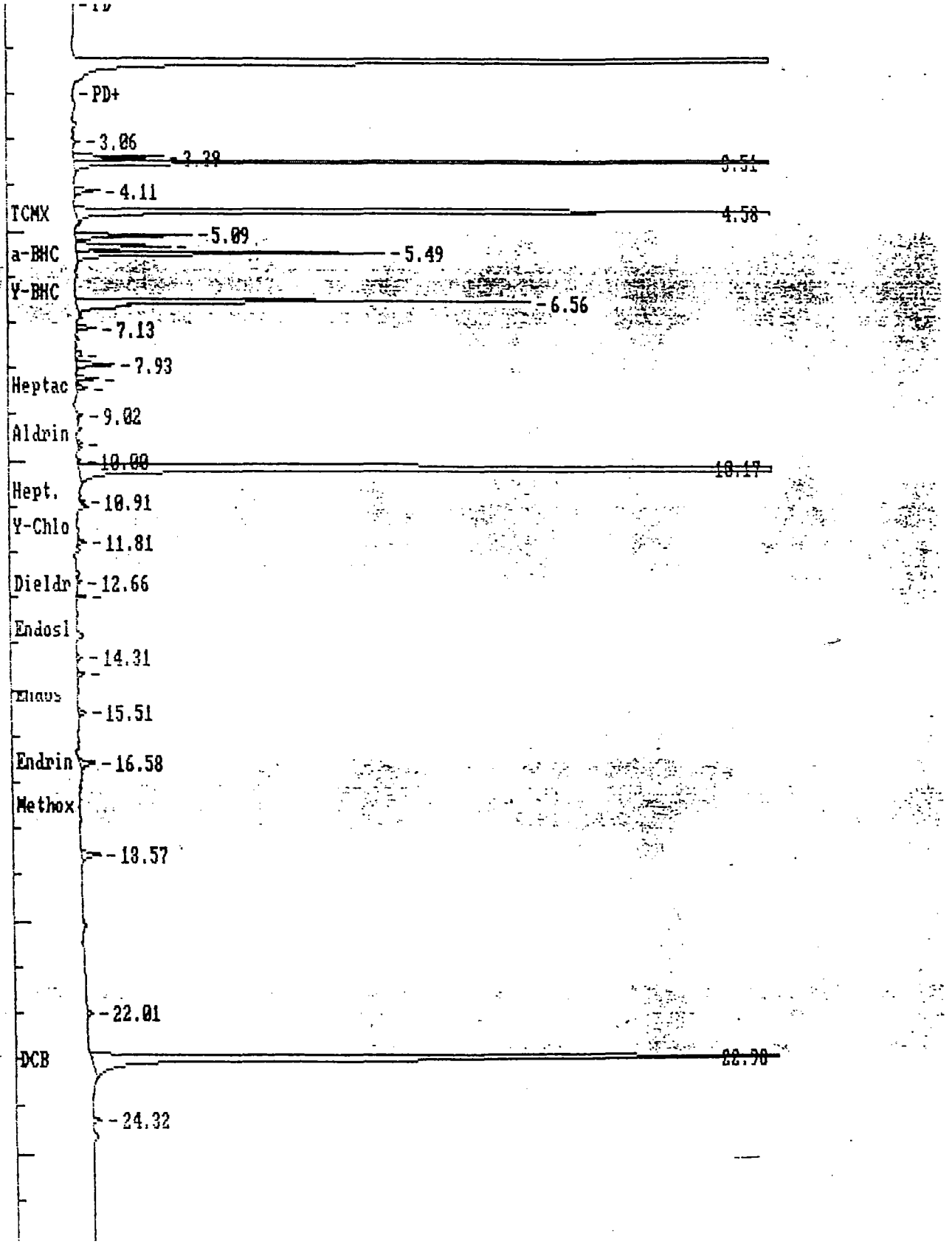
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

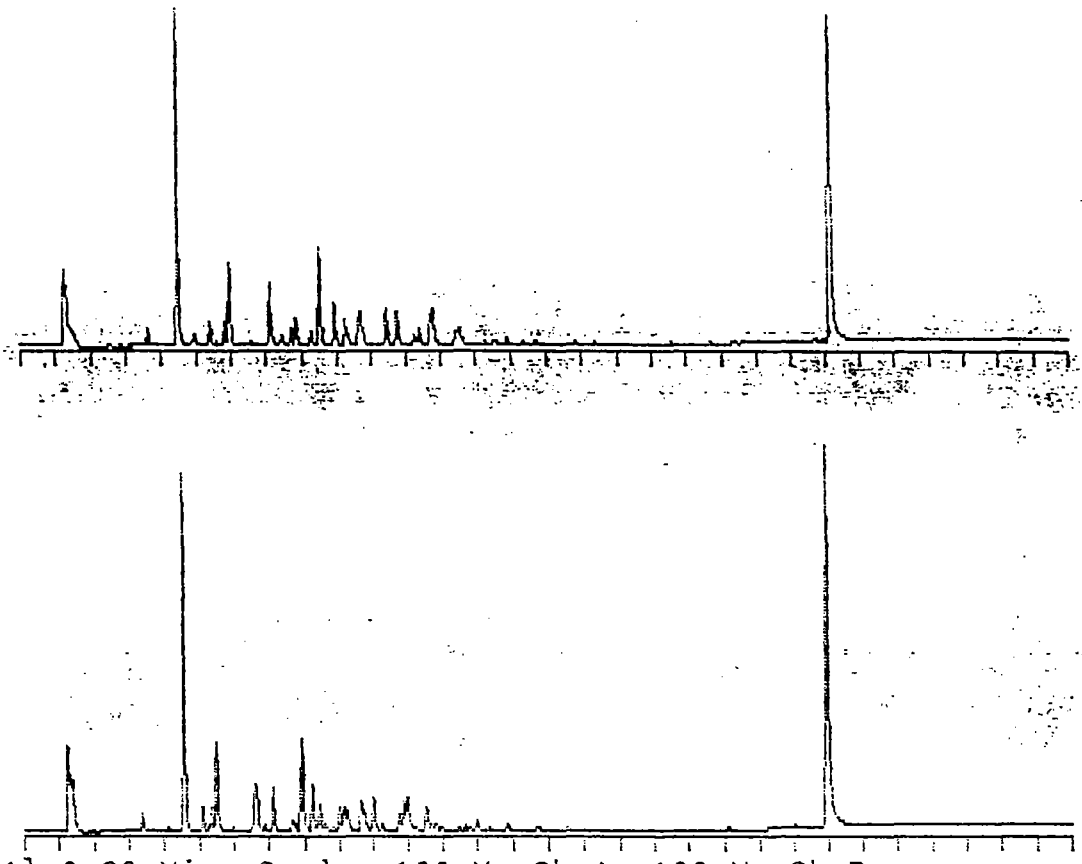
4	4.108	0.0000	0.0000%	18194	3566	5.1	1			1.0000E-09
5	4.576 TCMX	257.4217	44.1164%	645732	167943	3.8	1	0	0	3.9865E-04
6	5.093	0.0001	0.0000%	71610	16635	4.3	2			1.0000E-09
7	5.344	0.0001	0.0000%	61987	13401	4.6	2			1.0000E-09
8	5.494 a-BHC	69.8979	11.9790%	192467	43775	4.4	2	0	.3048	3.6317E-04
9	6.563	0.0003	0.0000%	272823	64348	4.2	1			1.0000E-09
10	7.131	0.0000	0.0000%	12418	2876	4.3	1			1.0000E-09
11	7.732	0.0000	0.0000%	7189	944	7.6	2			1.0000E-09
12	7.932	0.0000	0.0000%	30282	5536	5.5	2			1.0000E-09
13	8.233	0.0000	0.0000%	15277	3209	4.8	2			1.0000E-09
14	8.450 Heptachlor	2.5728	0.4409%	8408	1645	5.1	2	0	1.199	3.0600E-04
15	9.018	0.0000	0.0000%	4174	973	4.3	1			1.0000E-09
16	9.636	0.0000	0.0000%	2245	593	3.8	1			1.0000E-09
17	10.003	0.0000	0.0000%	2392	541	4.4	1			1.0000E-09
18	10.170	0.0034	0.0006%	3437404	847910	4.1	1			1.0000E-09
19	10.905	0.0000	0.0000%	2260	627	3.6	1			1.0000E-09
20	11.807 Endosulfan I	1.8020	0.3088%	5288	1244	4.2	1	0	.1416	3.4080E-04
21	12.659 Dieldrin	0.9520	0.1631%	3006	714	4.2	1	0	0	3.1669E-04
22	12.993	0.0000	0.0000%	6762	1394	4.9	1			1.0000E-09
23	14.312 Endrin ald	1.8210	0.3121%	4134	873	4.7	1	0	.1168	4.4051E-04
24	14.663	0.0000	0.0000%	6951	1011	6.9	1			1.0000E-09
25	15.514 DDT	3.3147	0.5681%	7551	1071	7.1	1	0	.6500	4.3899E-04
26	16.583 Endrin ket.	5.4944	0.9416%	17099	2288	7.5	1	0	.2523	3.2132E-04
27	18.570	0.0000	0.0000%	17141	2691	6.4	1			1.0000E-09
28	22.011	0.0000	0.0000%	4260	830	5.1	1			1.0000E-09
29	22.979 DCB	240.2250	41.1693%	1067552	185021	5.8	1	0	0	2.2502E-04
30	24.315	0.0000	0.0000%	6484	1259	5.2	1			1.0000E-09

TOTAL AMOUNT = 583.5059

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D9.ATB
Data File = D:0C22D9.PTS Printed on 10-22-1995 at 14:36:49
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
pcb 1232 1 Processed: 10-22-1995 15:09:35, segment 10, cycle 10
RAW DATA SAVED IN FILE D:0C22D10.PTS Second Channel Stored in D:PC22D10.PTS

****** EXTERNAL STANDARD TABLE ******
********** 10-22-1995 15:10:27 Version 5.1.5 **********
* Sample Name: pcb 1232 1ppm Data File: D:0C22D10 *
* Date: 10-22-1995 14:39:02 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* Interface: 1 Cycle#: 10 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

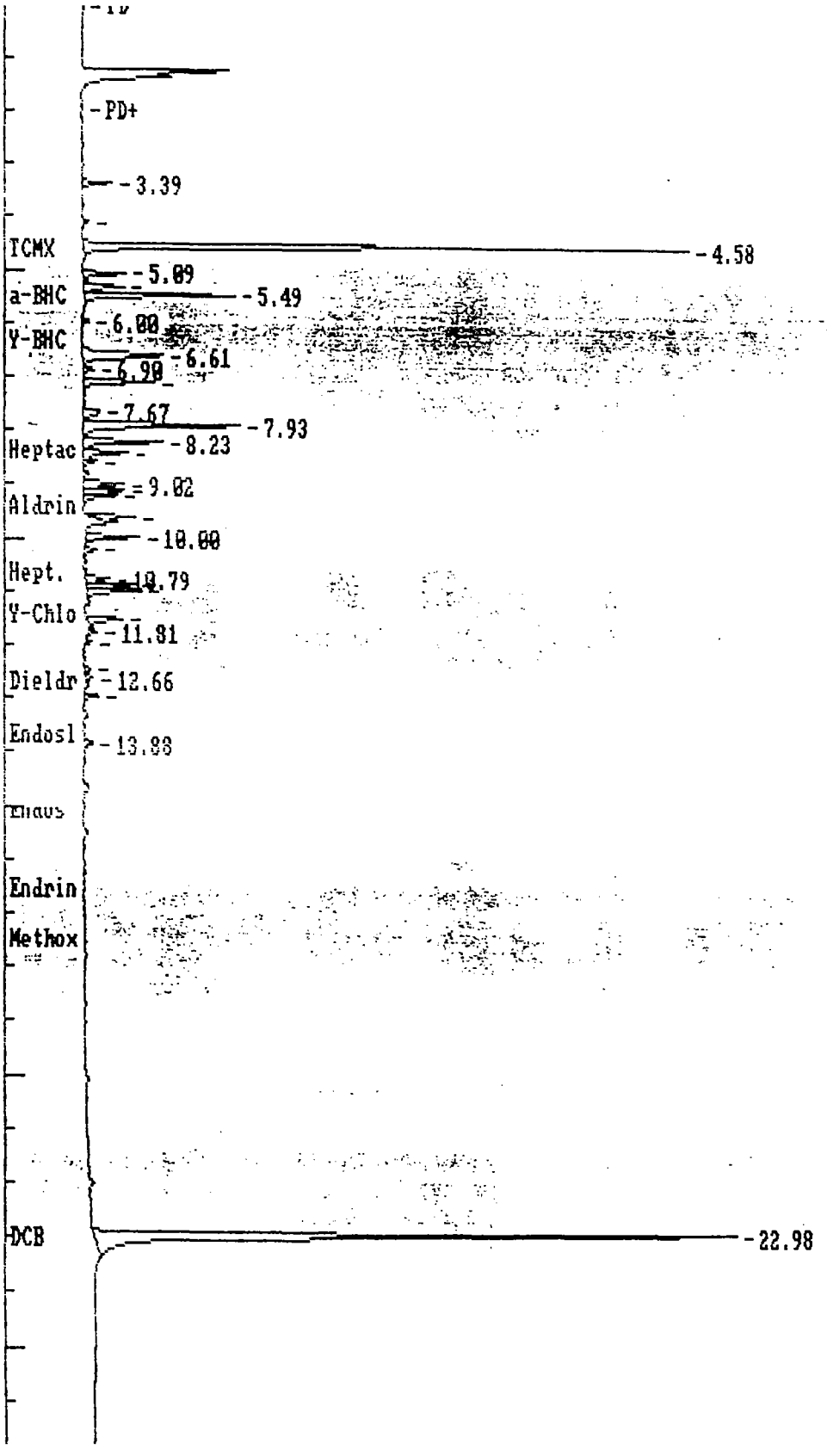
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	5.393		0.0000	0.0000%	23084	5284	4.4	2			1.0000E-09
5	5.544		0.0000	0.0000%	23165	4933	4.7	2			1.0000E-09
6	5.494	a-BHC	29.1722	10.1752%	80327	18141	4.4	2	0	.3048	3.6317E-04
7	5.995		0.0000	0.0000%	3745	856	4.4	1			1.0000E-09
8	6.613		0.0001	0.0000%	74481	9670	7.7	2			1.0000E-09
9	6.897	d-BHC	3.1739	1.1071%	6277	1371	4.6	2	0	-.7211	5.0568E-04
10	7.131		0.0000	0.0000%	37936	8667	4.4	2			1.0000E-09
11	7.665		0.0000	0.0000%	15653	2113	7.4	2			1.0000E-09
12	7.932		0.0001	0.0000%	107702	18953	5.7	2			1.0000E-09
13	8.233		0.0000	0.0000%	49649	9576	5.2	2			1.0000E-09
14	8.450	Heptachlor	8.4817	2.9584%	27718	5413	5.1	2	0	1.199	3.0600E-04
15	8.600		0.0000	0.0000%	7628	1684	4.5	2			1.0000E-09
16	9.018		0.0000	0.0000%	24241	4947	4.9	2			1.0000E-09
17	9.135		0.0000	0.0000%	22149	4895	4.5	2			1.0000E-09
18	9.235	Aldrin	8.0252	2.7992%	21891	4097	5.3	2	0	-1.601	3.6660E-04
19	9.636		0.0000	0.0000%	16541	4386	3.8	1			1.0000E-09
20	10.003		0.0000	0.0000%	35317	6630	5.3	2			1.0000E-09
21	10.254		0.0000	0.0000%	7770	1654	4.7	2			1.0000E-09
22	10.788	Hept. epox.	5.1024	1.7797%	14209	2980	4.8	2	0	1.253	3.5909E-04
23	10.905		0.0000	0.0000%	28323	5957	4.8	2			1.0000E-09
24	11.022		0.0000	0.0000%	36927	6552	5.6	2			1.0000E-09
25	11.540	Y-Chlordane	6.8855	2.4016%	21114	4318	4.9	1	0	1.023	3.2611E-04
26	11.807	Endosulfan I	1.5514	0.5411%	4552	1151	4.0	1	0	.1416	3.4080E-04
27	11.974	a-Chlordane	1.2253	0.4274%	3787	861	4.4	1	0	.2797	3.2358E-04
28	12.492		0.0000	0.0000%	3583	785	4.6	1			1.0000E-09
29	12.659	Dieldrin	1.2499	0.4360%	3947	941	4.2	1	0	0	3.1669E-04
30	12.993		0.0000	0.0000%	8810	1720	5.1	1			1.0000E-09
31	13.878	Endosif II	2.2274	0.7769%	6075	961	6.3	1	0	1.713	3.6668E-04
32	22.979	DCB	107.6191	37.5374%	478256	78662	6.1	1	0	0	2.2502E-04

TOTAL AMOUNT = 286.6982

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D10.ATB
Data File = D:0C22D10.PTS Printed on 10-22-1995 at 15:10:48
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



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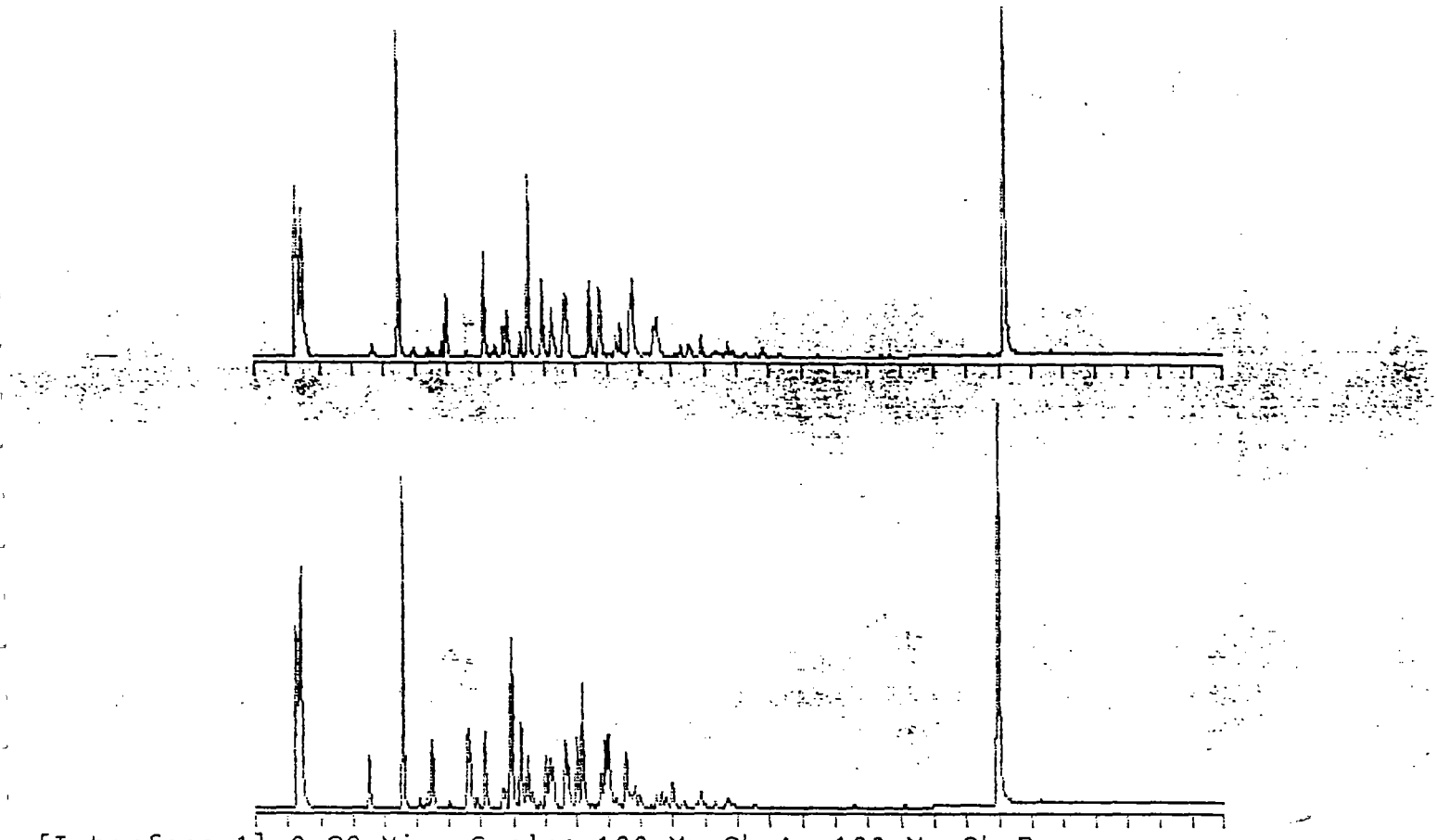
306



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
pcb 1242 1 Processed: 10-22-1995 15:43:39, segment 11, cycle 11
RAW DATA SAVED IN FILE D:0C22D11.PTS Second Channel Stored in D:PC22D11.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 15:44:31 Version 5.1.5 **********
* Sample Name: pcb 1242 1ppm Data File: D:0C22D11 *
* Date: 10-22-1995 15:13:04 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* 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

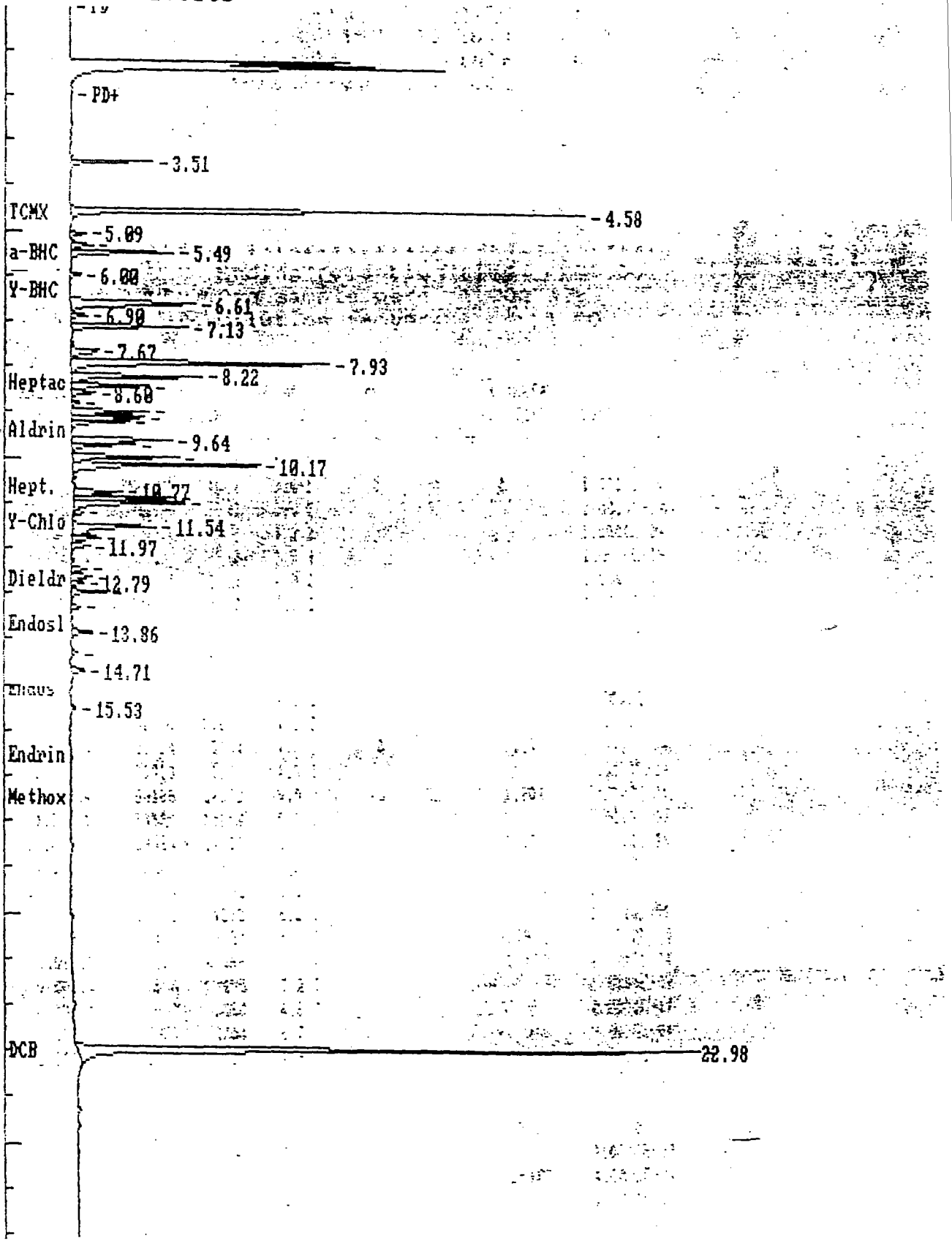
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	5.344		0.0000	0.0000%	15195	3210	4.7	2			1.0000E-09
5	5.494	a-BHC	23.1357	6.4981%	63705	14640	4.4	2	0	.3048	3.6317E-04
6	5.995		0.0000	0.0000%	6982	1575	4.4	1			1.0000E-09
7	6.613		0.0001	0.0000%	129510	17879	7.2	2			1.0000E-09
8	6.897	d-BHC	5.4054	1.5182%	10689	2413	4.4	2	0	-.7211	5.0568E-04
9	7.131		0.0001	0.0000%	71893	16609	4.3	1			1.0000E-09
10	7.665		0.0000	0.0000%	28773	4086	7.0	2			1.0000E-09
11	7.932		0.0002	0.0001%	209041	37319	5.6	2			1.0000E-09
12	8.216		0.0001	0.0000%	95519	19705	5.1	2			1.0000E-09
13	8.450	Heptachlor	16.8513	4.7330%	55070	11291	4.9	2	0	1.199	3.0600E-04
14	8.600		0.0000	0.0000%	17754	3511	5.1	2			1.0000E-09
15	8.834		0.0000	0.0000%	5974	1354	4.4	2			1.0000E-09
16	9.001		0.0001	0.0000%	55088	11209	4.9	2			1.0000E-09
17	9.135		0.0000	0.0000%	47449	10588	4.5	2			1.0000E-09
18	9.235	Aldrin	16.6026	4.6632%	45288	8483	5.3	2	0	-1.601	3.6660E-04
19	9.636		0.0001	0.0000%	65377	14337	4.6	2			1.0000E-09
20	9.736		0.0000	0.0000%	48522	9245	5.2	2			1.0000E-09
21	10.003		0.0001	0.0000%	80156	15296	5.2	2			1.0000E-09
22	10.170		0.0001	0.0000%	125197	26939	4.6	2			1.0000E-09
23	10.771	Hept. epox.	11.7995	3.3141%	32860	7024	4.7	2	0	1.097	3.5909E-04
24	10.905		0.0001	0.0000%	68602	14541	4.7	2			1.0000E-09
25	11.022		0.0001	0.0000%	93042	15965	5.8	3			1.0000E-09
26	11.239		0.0000	0.0000%	7893	1365	5.8	4			1.0000E-09
27	11.540	Y-Chlordane	25.2065	7.0798%	77295	12018	6.4	2	0	1.023	3.2611E-04
28	11.807	Endosulfan I	7.1174	1.9991%	20884	4192	5.0	2	0	.1416	3.4080E-04
29	11.974	a-Chlordane	4.2749	1.2007%	13211	2635	5.0	2	0	.2797	3.2358E-04
30	12.492		0.0000	0.0000%	11197	2242	5.0	2			1.0000E-09
31	12.659	Dieldrin	5.2283	1.4685%	16509	3168	5.2	2	0	0	3.1669E-04
32	12.792	4,4-DDE	3.1821	0.8938%	9054	1875	4.8	2	0	-.1303	3.5145E-04
33	12.993		0.0000	0.0000%	29036	5242	5.5	2			1.0000E-09
34	13.327	Endrin	2.8532	0.8014%	8530	1506	5.7	2	0	0	3.3450E-04
35	13.861	Endoslf II	6.6737	1.8744%	18200	2944	6.2	1	0	1.591	3.6668E-04
36	14.329	Endrin ald	2.1105	0.5928%	4791	1014	4.7	1	0	.2336	4.4051E-04
37	14.713		0.0000	0.0000%	12640	1885	6.7	1			1.0000E-09
38	15.531	DDT	1.7212	0.4834%	3921	730	5.4	1	0	.7583	4.3899E-04
39	22.979	DCB	114.3357	32.1135%	508104	89751	5.7	1	0	0	2.2502E-04

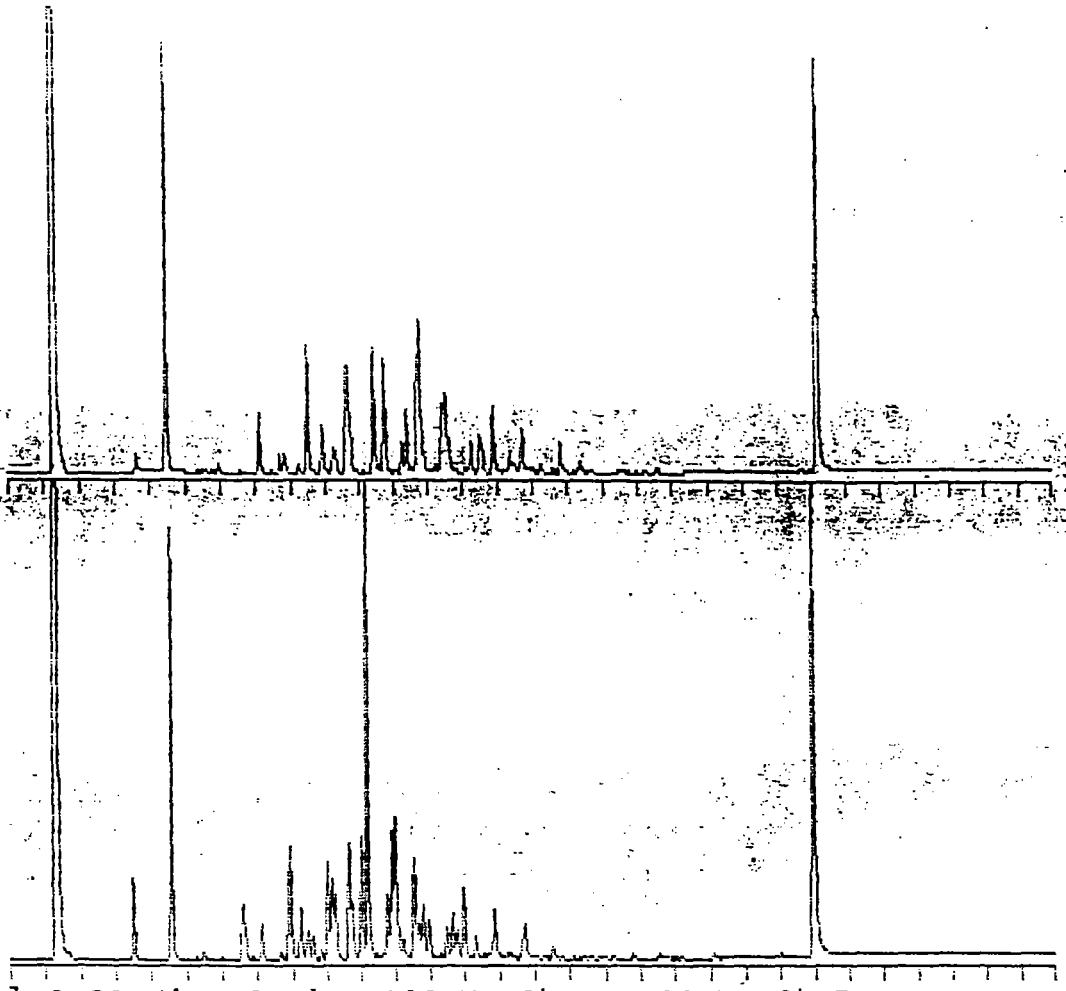
TOTAL AMOUNT = 356.0361

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D11.ATB
Data File = D:0C22D11.PTS Printed on 10-22-1995 at 15:44:53
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
pcb 1248 1 Processed: 10-22-1995 16:17:45, segment 12, cycle 12
RAW DATA SAVED IN FILE D:0C22D12.PTS Second Channel Stored in D:PC22D12.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 16:18:37 Version 5.1.5 **********
* Sample Name: pcb 1248 1ppm Data File: D:0C22D12 *
* Date: 10-22-1995 15:47:07 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* 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

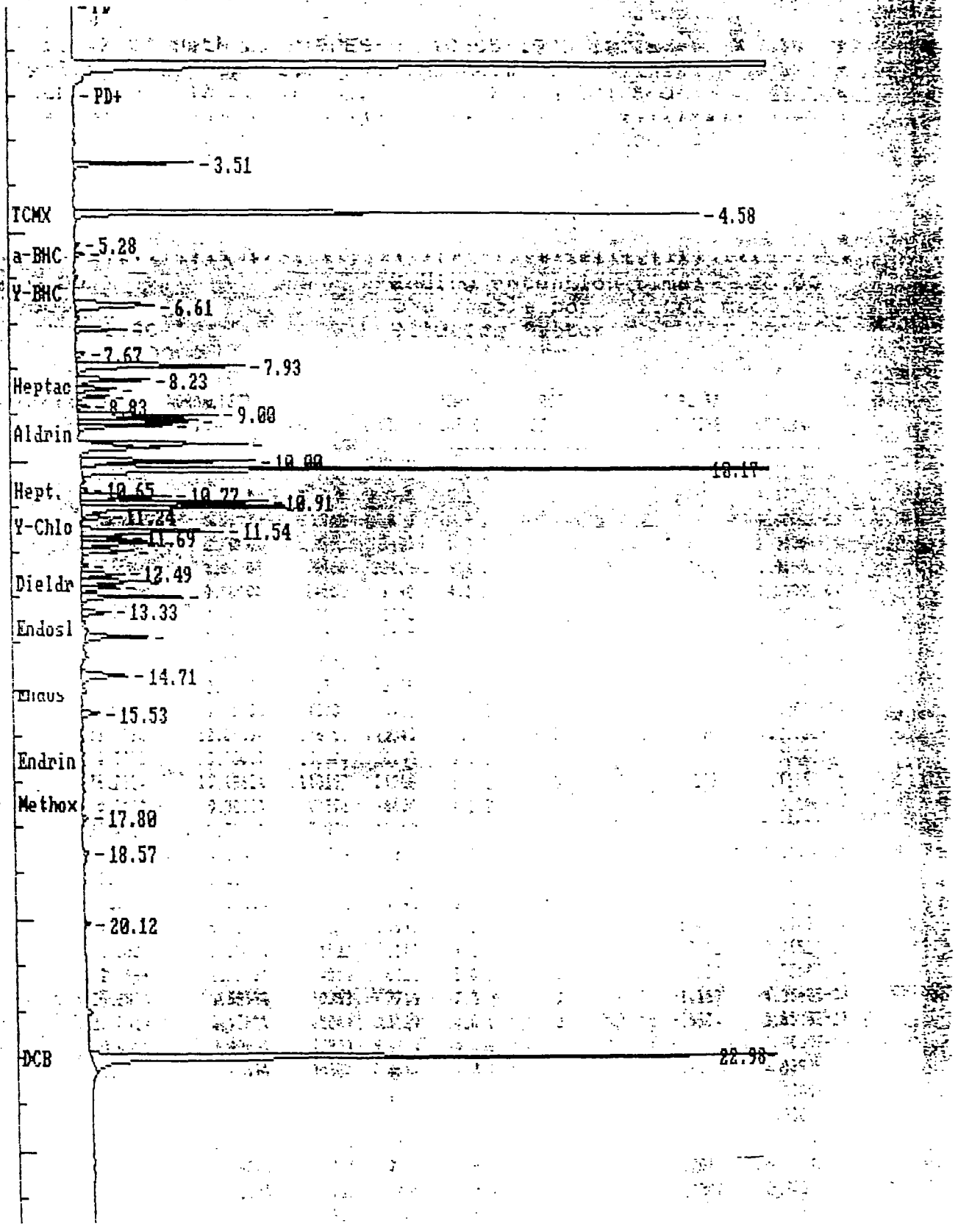
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	9.001		0.0001	0.0000%	66836	14065	4.7	2				1.0000E-09
5	9.135		0.0000	0.0000%	24831	4345	5.7	2				1.0000E-09
6	9.636		0.0000	0.0000%	42093	8260	5.1	1				1.0000E-09
7	10.020		0.0000	0.0000%	14495	2957	4.9	1				1.0000E-09
8	10.771	Hept. epox.	4.7524	1.1189%	13235	2618	5.1	2	0		1.097	3.5909E-04
9	10.905		0.0001	0.0000%	53292	11440	4.7	2				1.0000E-09
10	11.022		0.0001	0.0000%	130515	23886	5.5	2				1.0000E-09
11	11.239	Y-Chlordane	7.1478	1.6828%	21919	4363	5.0	2	0		-1.608	3.2611E-04
12	11.690		0.0001	0.0000%	81765	10809	7.6	2				1.0000E-09
13	11.807	Endosulfan I	50.5155	11.8931%	148225	29515	5.0	2	0		.1416	3.4080E-04
14	11.974	a-Chlordane	21.1547	4.9805%	65377	13000	5.0	2	0		.2797	3.2358E-04
15	12.325		0.0000	0.0000%	7898	1887	4.2	2				1.0000E-09
16	12.492		0.0001	0.0000%	53088	11073	4.8	2				1.0000E-09
17	12.659	Dieldrin	33.3319	7.8475%	105252	21227	5.0	2	0		0	3.1669E-04
18	12.792	4,4-DDE	16.2617	3.8286%	46270	6932	6.7	2	0		-.1303	3.5145E-04
19	12.993		0.0002	0.0000%	203476	38421	5.3	2				1.0000E-09
20	13.327	Endrin	11.5121	2.7103%	34416	4272	8.1	1	0		0	3.3450E-04
21	13.560	Endosulf II	6.2181	1.4639%	16958	3657	4.6	1	0		-.6119	3.6668E-04
22	13.861		0.0002	0.0000%	195288	25880	7.5	1				1.0000E-09
23	14.128	4,4-DDD	2.5112	0.5912%	4535	1283	3.5	1	0		-.3533	5.5372E-04
24	14.445	Endrin ald	7.9111	1.8625%	17959	3967	4.5	1	0		1.051	4.4051E-04
25	14.663		0.0002	0.0001%	224774	28626	7.9	2				1.0000E-09
26	15.047	Endos sulf	14.3629	3.3815%	33313	6365	5.2	2	0		-.3318	4.3115E-04
27	15.347	DDT	10.9305	2.5734%	24899	2834	8.8	2	0		-.4333	4.3899E-04
28	15.531		0.0002	0.0001%	218763	33344	6.6	3				1.0000E-09
29	15.781		0.0000	0.0000%	14559	2551	5.7	4				1.0000E-09
30	16.115		0.0000	0.0000%	6669	1512	4.4	1				1.0000E-09
31	16.266		0.0000	0.0000%	5194	1174	4.4	2				1.0000E-09
32	16.399	Endrin ket	16.6802	3.9271%	51911	7355	7.1	2	0		-.3581	3.2132E-04
33	16.867		0.0000	0.0000%	9556	1907	5.0	2				1.0000E-09
34	17.034		0.0000	0.0000%	4787	1114	4.3	2				1.0000E-09
35	17.218	Methoxychlor	13.4531	3.1673%	21918	3577	6.1	1	0		-1.434	6.1380E-04
36	17.802		0.0000	0.0000%	25205	4476	5.6	1				1.0000E-09
37	18.737		0.0000	0.0000%	20267	3417	5.9	1				1.0000E-09
38	22.979	DCB	107.1781	25.2334%	476296	80673	5.9	1	0		0	2.2502E-04

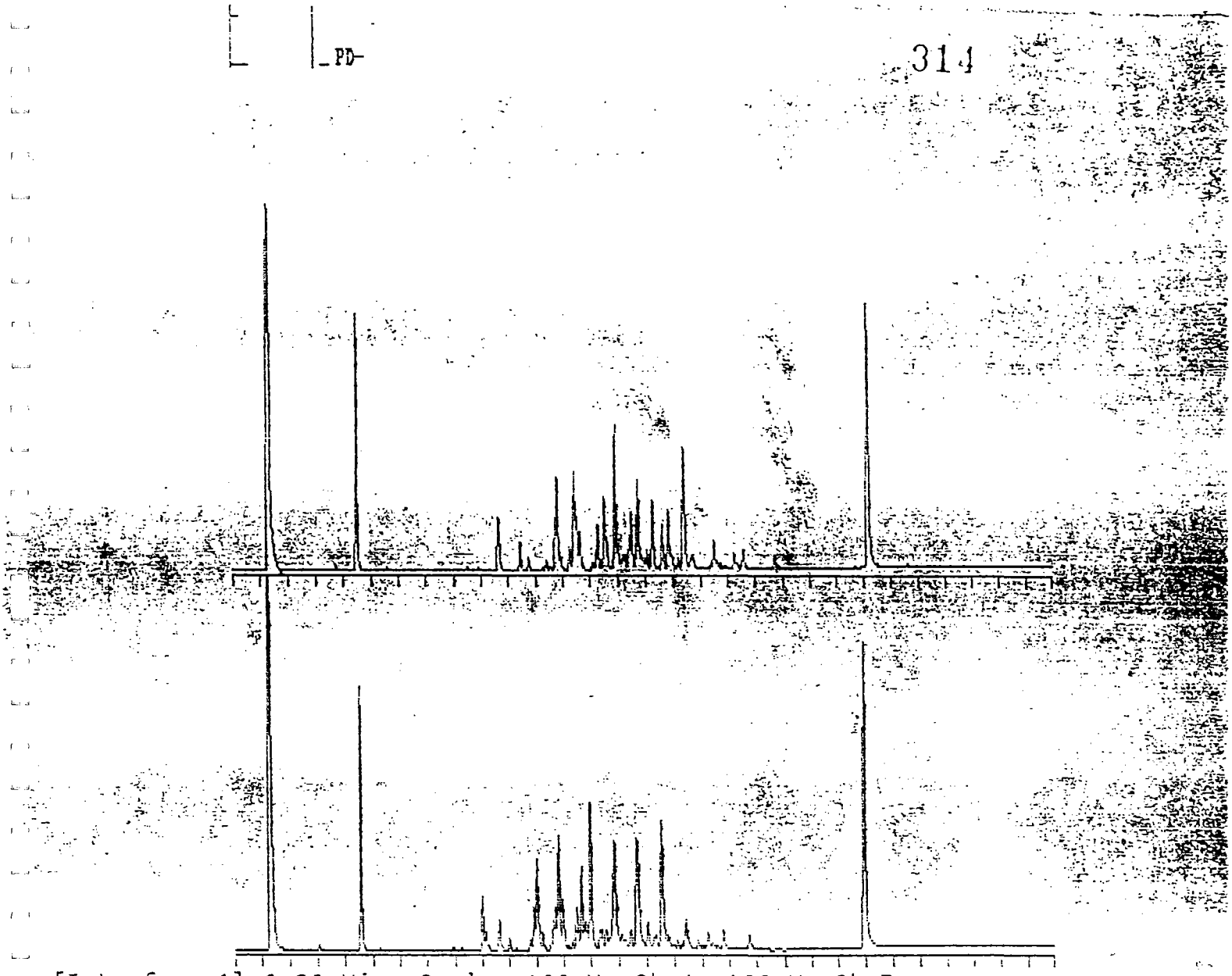
TOTAL AMOUNT = 424.7469

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D12.ATB
Data File = D:0C22D12.PTS Printed on 10-22-1995 at 16:18:58
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
pcb 1254 1 Processed: 10-22-1995 16:51:41, segment 13, cycle 13
RAW DATA SAVED IN FILE D:0C22D13.PTS Second Channel Stored in D:PC22D13.PTS

****** EXTERNAL STANDARD TABLE ******

********** 10-22-1995 16:52:33 Version 5.1.5 **********

* Sample Name: pcb 1254 1ppm Data File: D:0C22D13 *
* Date: 10-22-1995 16:21:07 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* 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: *

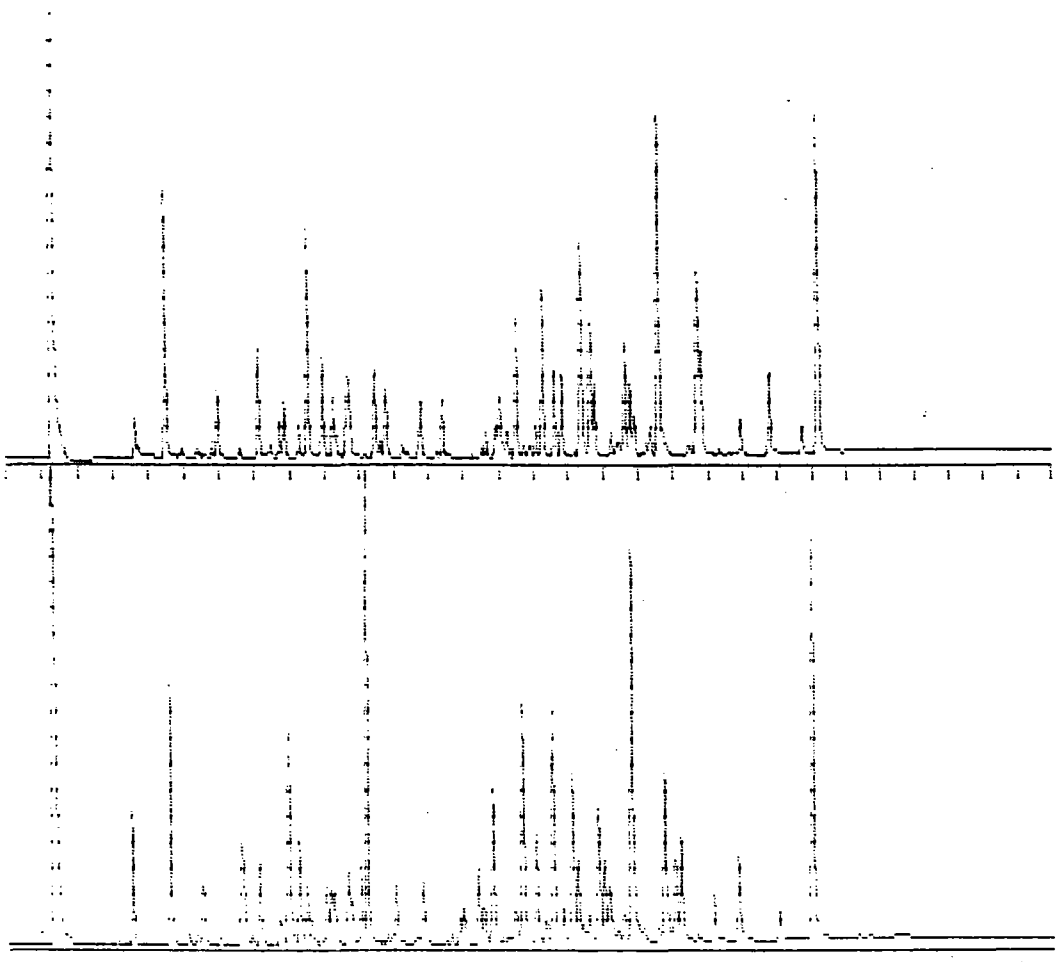
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 1000 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	5.494	a-BHC	2.3792	0.5659%	6551	1520	4.3	2	0	.3048	3.6317E-04
5	6.613		0.0001	0.0000%	83215	11291	7.4	1			1.0000E-09
6	7.131		0.0000	0.0000%	32179	7401	4.3	1			1.0000E-09
7	7.665		0.0000	0.0000%	8488	1439	5.9	2			1.0000E-09
8	7.932		0.0001	0.0000%	136732	23855	5.7	2			1.0000E-09
9	8.233		0.0001	0.0000%	55475	10453	5.3	2			1.0000E-09
10	8.450	Heptachlor	9.5467	2.2709%	31198	5783	5.4	2	0	1.199	3.0600E-04
11	8.600		0.0000	0.0000%	21671	4689	4.6	2			1.0000E-09
12	8.834		0.0000	0.0000%	8094	1859	4.4	2			1.0000E-09
13	9.001		0.0001	0.0000%	95985	19858	4.8	2			1.0000E-09
14	9.135		0.0001	0.0000%	75713	16926	4.5	2			1.0000E-09
15	9.235	Aldrin	25.7280	6.1200%	70180	13272	5.3	2	0	-1.601	3.6660E-04
16	9.636		0.0001	0.0000%	71544	18252	3.9	1			1.0000E-09
17	10.003		0.0001	0.0000%	126863	24704	5.1	2			1.0000E-09
18	10.170		0.0005	0.0001%	535153	132440	4.0	2			1.0000E-09
19	10.655	Hept. epox.	1.6492	0.3923%	4593	1036	4.4	2	0	0	3.5909E-04
20	10.771		0.0001	0.0000%	61787	12850	4.8	2			1.0000E-09
21	10.905		0.0001	0.0000%	125545	26485	4.7	2			1.0000E-09
22	11.022		0.0002	0.0000%	172975	29359	5.9	3			1.0000E-09
23	11.239		0.0000	0.0000%	18704	3462	5.4	4			1.0000E-09
24	11.540	Y-Chlordane	34.7637	8.2693%	106602	20125	5.3	2	0	1.023	3.2611E-04
25	11.690		0.0000	0.0000%	31557	6529	4.8	2			1.0000E-09
26	11.807	Endosulfan I	19.4554	4.6279%	57087	10913	5.2	2	0	.1416	3.4080E-04
27	11.974	a-Chlordane	11.6598	2.7735%	36034	7300	4.9	2	0	.2797	3.2358E-04
28	12.325		0.0000	0.0000%	4363	1096	4.0	1			1.0000E-09
29	12.492		0.0000	0.0000%	30286	6195	4.9	2			1.0000E-09
30	12.659	Dieldrin	14.6788	3.4917%	46351	9063	5.1	2	0	0	3.1669E-04
31	12.792	4,4-DDE	9.4056	2.2373%	26762	5565	4.8	2	0	-.1303	3.5145E-04
32	12.993		0.0001	0.0000%	77400	14563	5.3	2			1.0000E-09
33	13.327	Endrin	7.3344	1.7446%	21926	4145	5.3	2	0	0	3.3450E-04
34	13.861	Endoslf II	19.7135	4.6893%	53762	8930	6.0	1	0	1.591	3.6668E-04
35	14.713		0.0001	0.0000%	50675	6733	7.5	1			1.0000E-09
36	15.531	DDT	7.1915	1.7106%	16382	2676	6.1	1	0	.7583	4.3899E-04
37	17.802	Methoxychlor	2.5561	0.6080%	4164	797	5.2	1	0	1.912	6.1380E-04
38	18.570		0.0000	0.0000%	3786	682	5.6	1			1.0000E-09
39	20.123		0.0000	0.0000%	4001	794	5.0	1			1.0000E-09
40	22.979	DCB	125.5436	29.8632%	557912	98795	5.6	1	0	0	2.2502E-04

TOTAL AMOUNT = 420.3952

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT



1: 30 Meter [illegible] Column, 10m Pre Column
Peak Used = [illegible] at 22:41:41 on Oct 22, segment 24, Cycle 24
RAW DATA [illegible] IN FILE D:0C122D24.PTS Beyond Channel Stored in D:P122D24.PTS

EXTERNAL STANDARD TABLE

10-22-1995 23:07:09 Version 5.1.5

Sample Name: pcb 1660 1ppm Data File: D:0C122D24

Date: 10-22-1995 22:35:41 Method: M:APES-H 10-06-1995 05:31:24 # 375

Interface: 1 Cycle#: 24 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: 1.00 Ending retention time: 31.11

Area reject: 1000 One sample per 1.000 sec.

Amount Injected: 1.00 Dilution Factor: 1.00

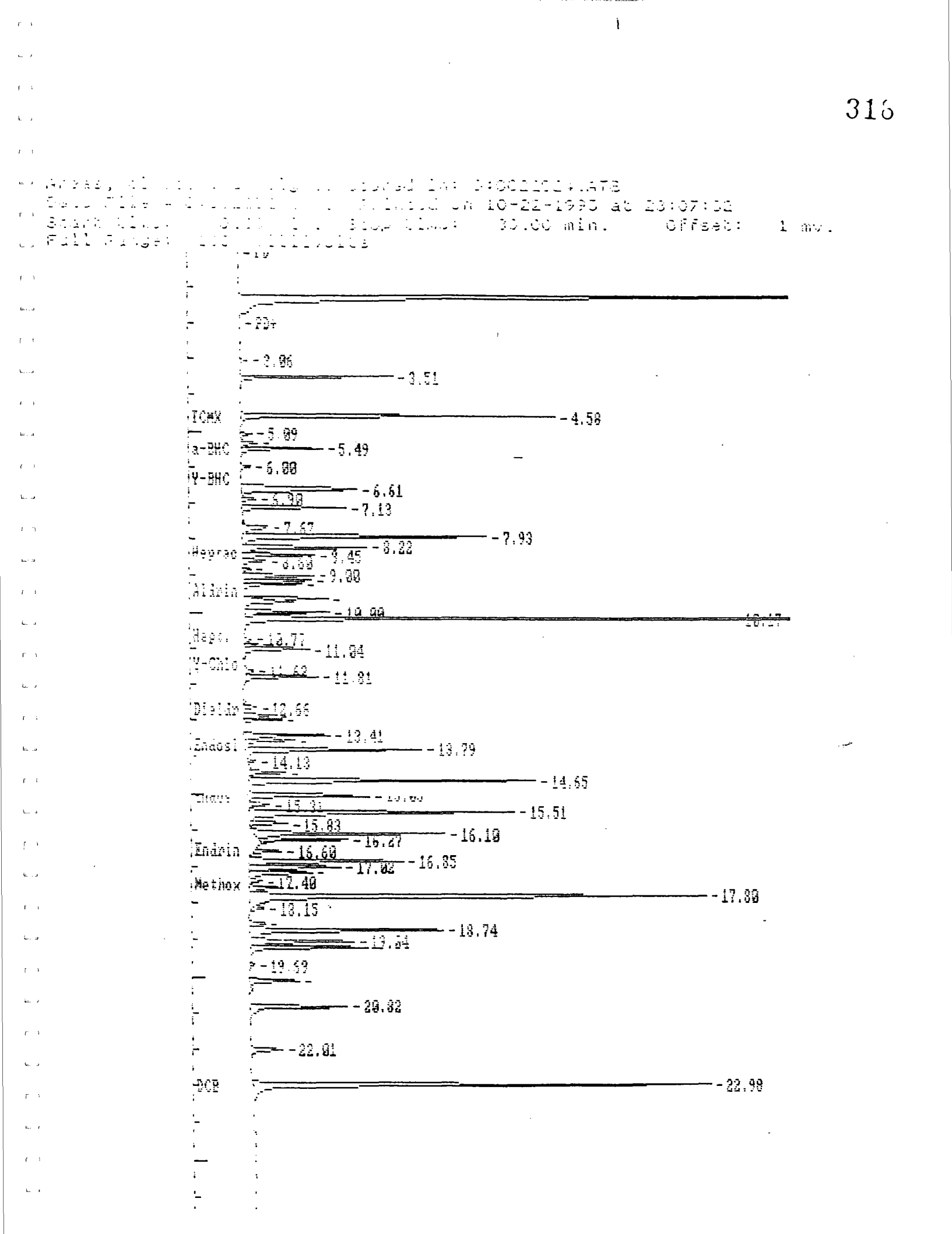
Sample Weight: 1.000000

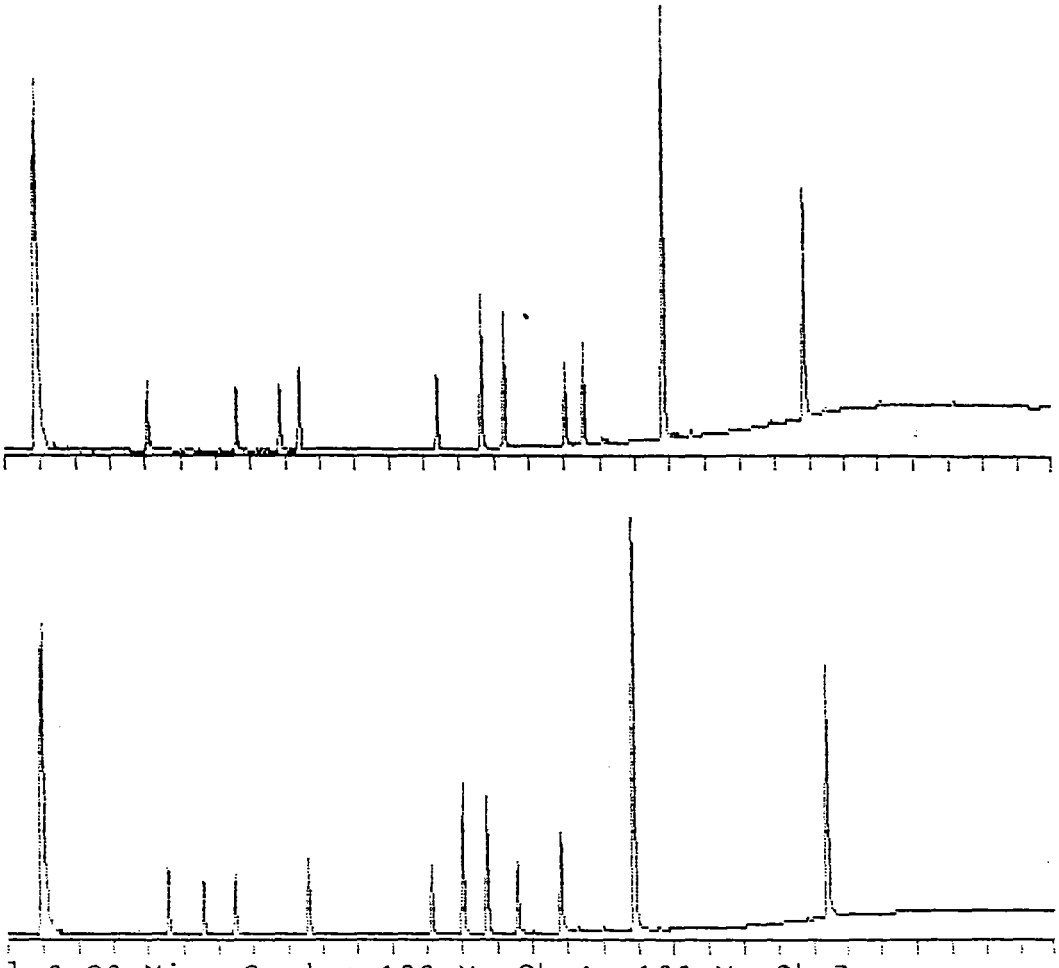
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ---	NORMALIZED PEAK	LEVEL	AREA DEVIAT	DEVIAT %	REF PEAK	% DELTA RET TIME	CONC/AREA

4	8.191		0.0001	0.0001%	8.6	2.1	4.1	2			1.0000E-09
5	8.344		0.0001	0.0001%	14058	3212	4.4	2			1.0000E-09
6	8.474	a-BHC	11.2918	4.2724%	64139	14360	4.4	2	D	.0348	1.1117E-01
7	8.595		0.0000	0.0000%	8382	1825	4.4	1			1.0000E-09
8	8.613		0.0001	0.0000%	183851	20833	7.8	2			1.0000E-09
9	8.897	b-BHC	0.2973	0.1124%	12367	2753	4.4	2	D	-.7211	5.1548E-04
10	9.031		0.0001	0.0001%	32134	10761	4.4	1			1.0000E-09
11	9.168		0.0000	0.0000%	33499	4757	7.0	1			1.0000E-09
12	9.331		0.0001	0.0001%	144320	43909	5.6	1			1.0000E-09
13	9.516		0.0001	0.0000%	110739	22372	4.9	1			1.0000E-09
14	9.681	Heptachlor	19.6997	7.4185%	64376	13137	4.9	2	D	1.133	5.1703E-04
15	9.808		0.0000	0.0000%	20143	4231	4.8	2			1.0000E-09
16	9.884		0.0000	0.0000%	7179	1555	4.6	1			1.0000E-09
17	9.981		0.0001	0.0000%	58681	12757	4.6	2			1.0000E-09
18	10.118		0.0001	0.0000%	51971	11284	4.6	2			1.0000E-09
19	10.238	Aldrin	11.4291	4.3474%	55721	10503	5.3	2	D	-1.631	3.6666E-04
20	10.416		0.0001	0.0000%	41169	10311	3.9	1			1.0000E-09
21	10.551		0.0001	0.0000%	77914	15027	5.1	2			1.0000E-09
22	10.679		0.0001	0.0001%	-73816	1138608	3.8	2			1.0000E-09
23	10.771	Hept. epox.	0.2691	0.1024%	6819	1400	4.8	2	D	1.097	3.6749E-04
24	10.905		0.0000	0.0000%	11483	2460	4.7	2			1.0000E-09
25	11.039		0.0001	0.0000%	59180	11714	5.1	2			1.0000E-09
26	11.623	Y-Chlordane	2.4259	0.4450%	7439	1398	5.3	2	D	1.754	3.2511E-04
27	11.807	Endosulfan I	21.2513	8.0864%	62358	13041	4.8	2	D	.1416	3.4060E-04
28	12.183	Dieldrin	3.5169	0.6451%	11138	2395	4.6	2	D	0	3.1569E-04
29	12.376	4,4-DDE	9.6449	1.7692%	27443	5648	4.9	2	D	.5215	3.5145E-04
30	12.571		0.0001	0.0000%	33541	6935	5.1	2			1.0000E-09
31	12.741	Endrin	21.1431	8.0525%	73468	15499	4.9	2	D	.6265	3.1481E-04
32	12.861	Endosulf sl	17.1367	6.5314%	45881	9557	5.2	2	D	-.5119	3.6668E-04
33	13.794		0.0001	0.0000%	171942	31668	5.4	1			1.0000E-09
34	14.113	4,4-DDD	1.7609	0.6709%	5791	1665	4.1	1	D	-.3503	3.0372E-04
35	14.445	Endrin ald	11.2656	4.2914%	30119	6791	4.4	1	D	1.051	4.1031E-04
36	14.646		0.0003	0.0001%	283499	51399	5.5	1			1.0000E-09
37	15.347	Endos sulf	51.9942	9.8588%	122873	21537	5.5	2	D	-.3319	4.2115E-04
38	15.514		0.0000	0.0000%	19458	3858	5.3	2			1.0000E-09
39	15.814	DDT	111.7915	42.5976%	278139	47529	5.3	2	D	.8520	4.1999E-04
40	16.031		0.0001	0.0000%	34491	6881	5.0	1			1.0000E-09
41	16.178		0.0001	0.0000%	111741	24014	4.7	1			1.0000E-09
42	16.361		0.0001	0.0001%	9713	1972	4.9	1			1.0000E-09
43	16.532	Ert 13 vol.	7.0331	2.6809%	32331	5101	4.4	1	D	.3533	3.1322E-04
44	16.851		0.0001	0.0000%	103541	17613	4.8	2			1.0000E-09
45	17.017		0.0001	0.0000%	80903	16457	5.1	2			1.0000E-09
46	17.168		0.0001	0.0000%	73765	11939	6.2	2			1.0000E-09
47	17.421	Methoxychlor	9.0982	1.6669%	14823	2404	6.2	2	D	-.3824	5.1393E-04
48	17.585		0.0000	0.0000%	22005	5397	5.0	1			1.0000E-09
49	17.802		0.0005	0.0001%	466407	82319	5.7	3			1.0000E-09
50	18.153		0.0000	0.0000%	11375	2431	4.7	1			1.0000E-09
51	18.371		0.0000	0.0000%	17146	3979	5.6	1			1.0000E-09
52	18.737		0.0001	0.0000%	238838	54723	6.0	2			1.0000E-09
53	19.038		0.0001	0.0000%	92543	18707	4.9	2			1.0000E-09
54	19.205		0.0001	0.0000%	114030	21028	5.4	2			1.0000E-09
55	19.669		0.0000	0.0000%	5024	925	5.4	1			1.0000E-09
56	20.140		0.0000	0.0000%	47021	8746	5.3	1			1.0000E-09
57	20.325		0.0001	0.0000%	130614	17523	5.9	1			1.0000E-09
58	21.111		0.0001	0.0000%	31419	5758	5.5	1			1.0000E-09
59	21.379	DDT	111.3476	42.4909%	431033	81371	5.3	1	D	0	1.0000E-04

TOTAL AMOUNT = 261.9491

GROUP NUMBER GROUP AMOUNT GROUP AMOUNT


Stored in: D:\DOS\2021.ATB
Stored on 10-22-1993 at 23:07:32
Start Time: 0.00 min. Stop Time: 30.00 min. Offset: 1 mv.
PCB
Endrin
Dieldrin
Methox
TCMX
a-BHC
Y-BHC
Heptac
Aldrin
Hept.
Y-Chlo
Endosl
Chlors
-7.67
-7.93
-8.22
-9.45
-9.80
-9.00
-10.00
-10.77
-11.04
-11.62
-11.81
-12.66
-13.41
-13.79
-14.13
-14.65
-15.31
-15.51
-15.83
-16.10
-16.27
-16.60
-16.85
-17.02
-17.80
-18.15
-18.74
-19.44
-19.69
-20.82
-22.81
-22.90



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
pest mix a Processed: 12-06-1995 11:51:23, segment 4, cycle 4
RAW DATA SAVED IN FILE D:DED014.PTS Second Channel Stored in D:EED014.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 11:51:50 Version 5.1.5 **********

* Sample Name: pest mix a 20 Data File: D:DED014 *
* Date: 12-06-1995 11:21:00 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 4 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

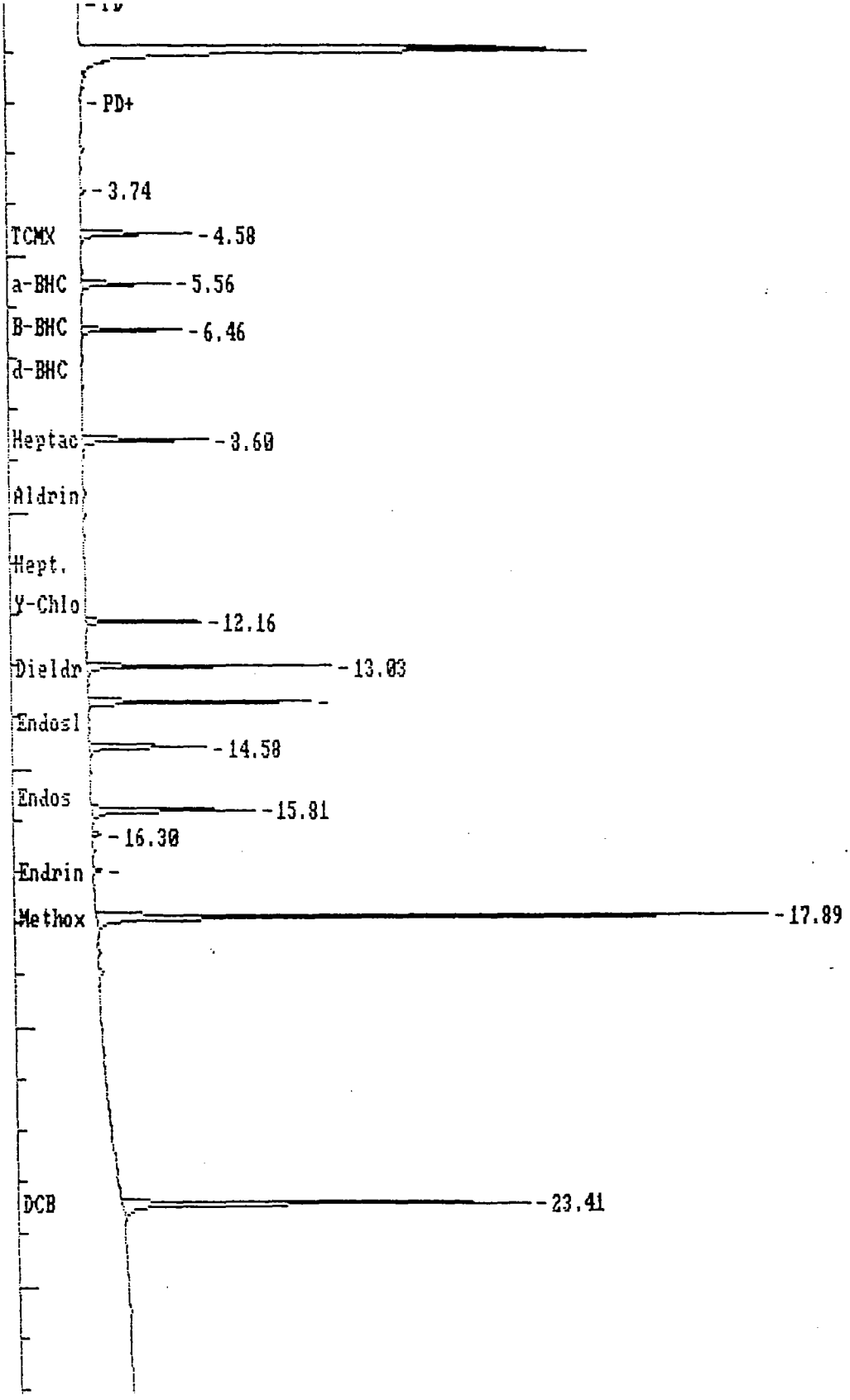
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	6.463	Y-BHC	15.8226	2.9908%	46116	12449	3.7	1	0		0	3.4310E-04
5	8.600	Heptachlor	19.1314	3.6163%	62521	15684	4.0	1	0		.2389	3.0600E-04
6	12.158	Endosulfan I	20.0534	3.7905%	58841	14396	4.1	1	0		.1449	3.4080E-04
7	13.026	Dieldrin	35.9310	6.7918%	113458	30820	3.7	1	0	326	0	3.1669E-04
8	13.711	Endrin	35.7350	6.7547%	106831	28162	3.8	1	0		0	3.3450E-04
9	14.579	4'4-DDD	34.4343	6.5089%	62187	14577	4.3	1	0		0	5.5372E-04
10	15.815	DDT	40.8686	7.7251%	93096	20510	4.5	1	0		0	4.3899E-04
11	16.299		0.0000	0.0000%	4948	1131	4.4	1				1.0000E-09
12	17.001	Endrin ket.	1.5791	0.2985%	4914	1016	4.8	1	0		0	3.2132E-04
13	17.886	Methoxychlor	232.5398	43.9553%	378852	85541	4.4	1	0		0	6.1380E-04
14	23.413	DCB	56.9214	10.7595%	252957	52026	4.9	1	0		0	2.2502E-04

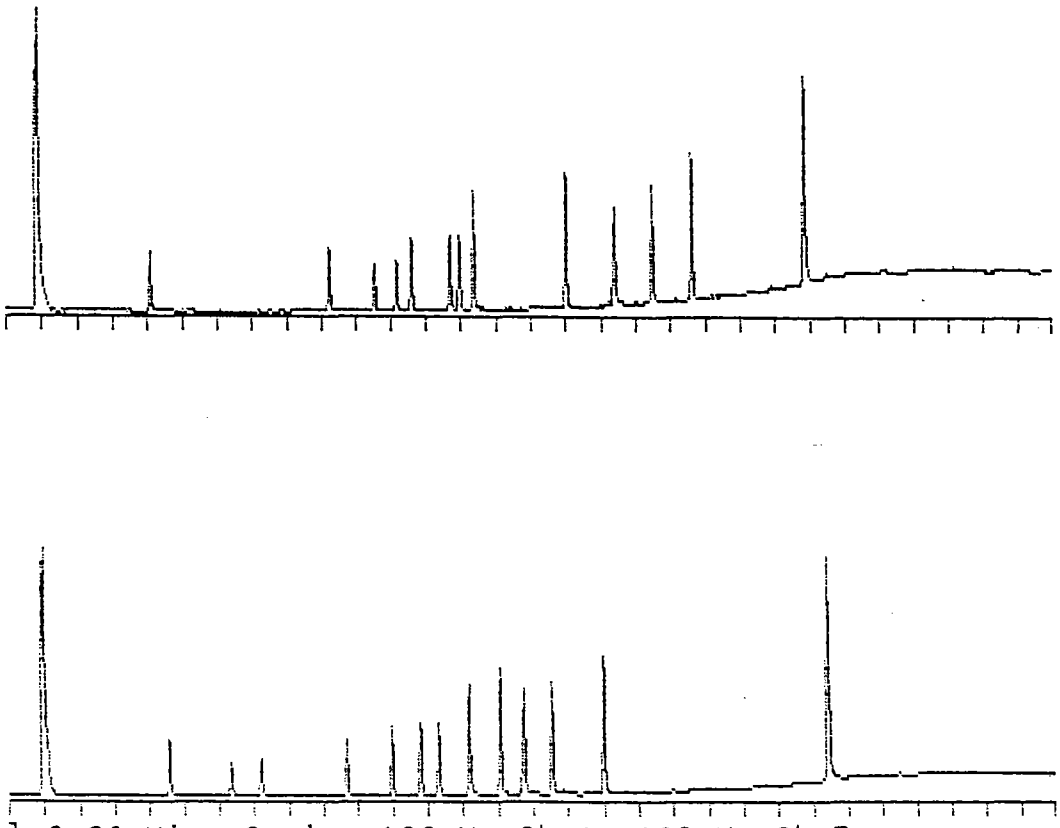
TOTAL AMOUNT = 529.0365

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED014.ATB
Data File = D:DED014.PTS Printed on 12-06-1995 at 11:52:03
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
pest mix b Processed: 12-06-1995 12:25:29, segment 5, cycle 5
RAW DATA SAVED IN FILE D:DED015.PTS Second Channel Stored in D:EED015.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 12:25:56 Version 5.1.5 **********

* Sample Name: pest mix b 20 Data File: D:DED015 *
* Date: 12-06-1995 11:55:08 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* 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

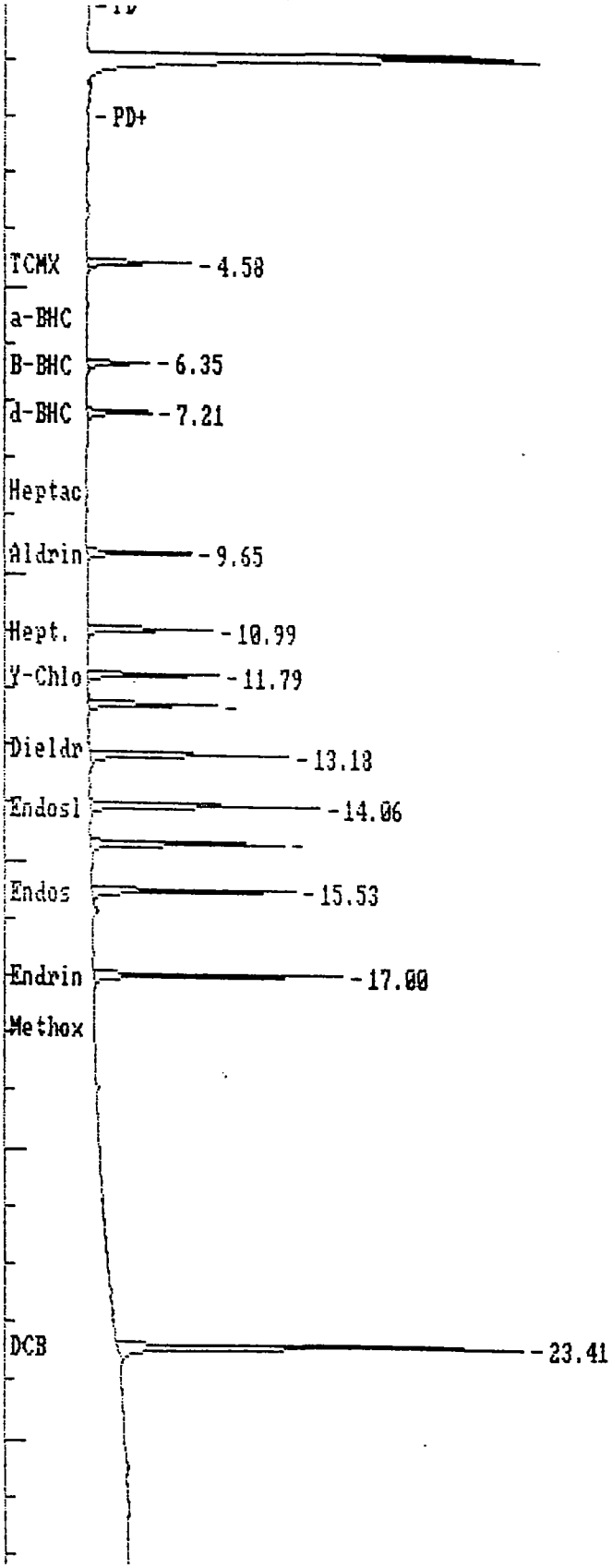
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

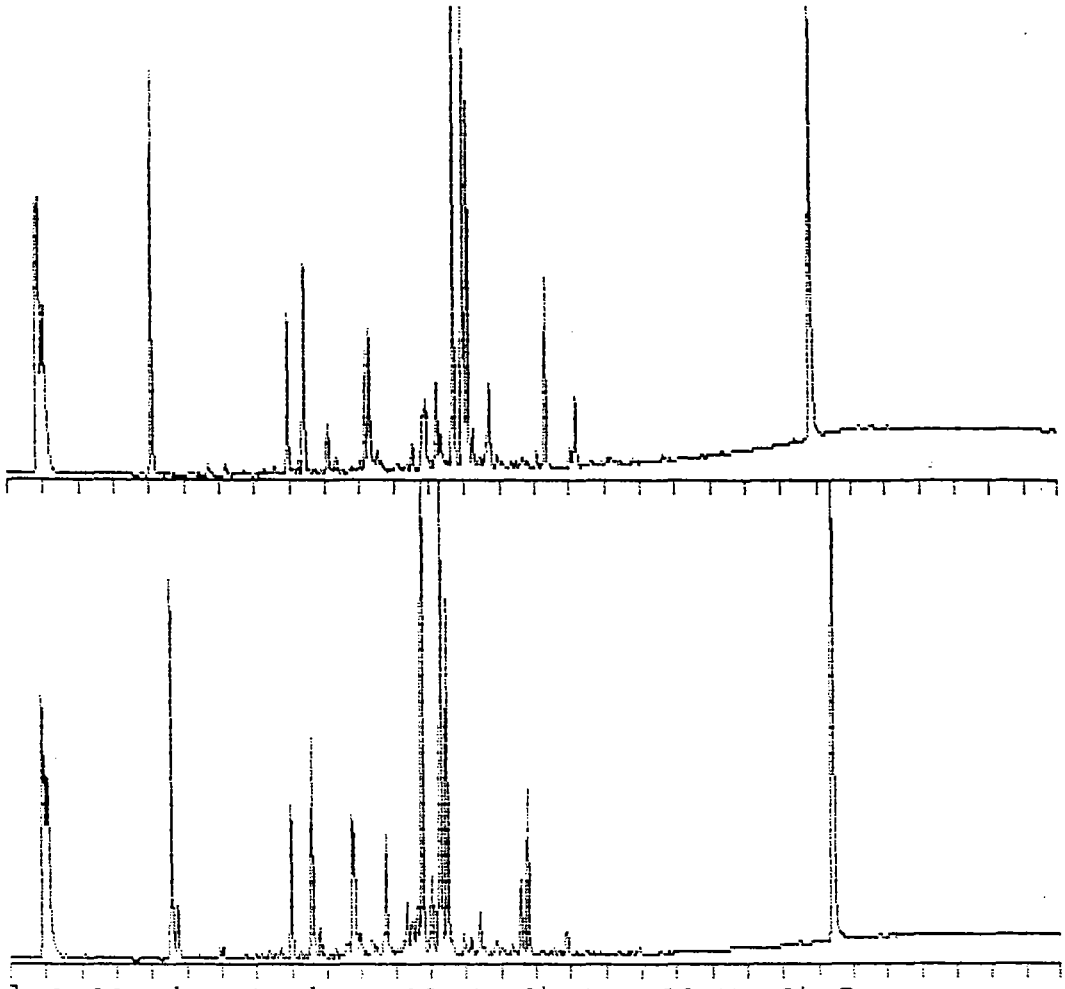
4	9.653	Aldrin	17.9332	4.7754%	48918	11855	4.1	1	0	0	3.6660E-04
5	10.989	Hept. epox.	19.7855	5.2686%	55099	14181	3.9	1	0	0	3.5909E-04
6	11.790	Y-Chlordane	19.3513	5.1530%	59340	14885	4.0	1	0	0	3.2611E-04
7	12.291	a-Chlordane	18.9348	5.0421%	58517	14770	4.0	1	0	0	3.2358E-04
8	13.176	4,4-DDE	32.1435	8.5594%	91459	22629	4.0	1	0	0	3.5145E-04
9	14.061	Endoslf II	38.5749	10.2720%	105201	26181	4.0	1	0	0	3.6668E-04
10	14.713	Endrin ald	43.3568	11.5453%	98423	22072	4.5	1	0	-.1174	4.4051E-04
11	15.531	Endos sulf	41.9124	11.1607%	97210	23218	4.2	1	0	0	4.3115E-04
12	17.001	Endrin ket.	38.3891	10.2225%	119471	28462	4.2	1	0	0	3.2132E-04
13	23.413	DCB	50.7415	13.5118%	225494	46190	4.9	1	0	0	2.2502E-04

TOTAL AMOUNT = 375.5346

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED015.ATB
Data File = D:DED015.PTS Printed on 12-06-1995 at 12:26:10
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: 12-06-1995 12:59:45, segment 6, cycle 6
RAW DATA SAVED IN FILE D:DED016.PTS Second Channel Stored in D:EED016.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 13:00:12 Version 5.1.5 **********

* Sample Name: chlordane 1ppm Data File: D:DED016 *
* Date: 12-06-1995 12:29:18 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* 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

4	5.945		0.0000	0.0000%	9010	2130	4.2	2			1.0000E-09
5	6.029		0.0000	0.0000%	7954	2062	3.9	2			1.0000E-09
6	6.663		0.0000	0.0000%	3050	707	4.3	1			1.0000E-09
7	6.964		0.0000	0.0000%	2945	675	4.4	1			1.0000E-09
8	7.381		0.0000	0.0000%	7848	1666	4.7	1			1.0000E-09
9	7.682		0.0000	0.0000%	7940	1964	4.0	1			1.0000E-09
10	7.999		0.0001	0.0000%	111568	31604	3.5	2			1.0000E-09
11	8.266		0.0000	0.0000%	6291	1368	4.6	2			1.0000E-09
12	8.584	Heptachlor	53.1837	7.2316%	173803	45369	3.8	2	0	0	3.0600E-04
13	8.818		0.0000	0.0000%	26164	5861	4.5	2			1.0000E-09
14	9.252		0.0000	0.0000%	7129	1742	4.1	1			1.0000E-09
15	9.619	Aldrin	6.7237	0.9142%	18341	2372	7.7	2	0	-.3191	3.6660E-04
16	9.736		0.0002	0.0000%	206118	28700	7.2	3			1.0000E-09
17	9.970		0.0000	0.0000%	14749	3225	4.6	4			1.0000E-09
18	10.321		0.0000	0.0000%	10328	2591	4.0	1			1.0000E-09
19	10.738		0.0001	0.0000%	104728	24294	4.3	1			1.0000E-09
20	11.039	Hept. epox.	1.0229	0.1391%	2849	730	3.9	1	0	.4431	3.5909E-04
21	11.239		0.0000	0.0000%	7772	2192	3.5	2			1.0000E-09
22	11.339		0.0000	0.0000%	40719	10096	4.0	2			1.0000E-09
23	11.490		0.0000	0.0000%	37287	6444	5.8	2			1.0000E-09
24	11.623		0.0000	0.0000%	44449	9346	4.8	2			1.0000E-09
25	11.773	Y-Chlordane	143.7776	19.5501%	440891	114938	3.8	2	0	-.1399	3.2611E-04
26	12.057	Endosulfan I	21.6967	2.9502%	63664	15100	4.2	1	0	-.6804	3.4080E-04
27	12.291	a-Chlordane	138.9039	18.8874%	429273	112732	3.8	2	0	0	3.2358E-04
28	12.475		0.0003	0.0000%	259527	71506	3.6	2			1.0000E-09
29	12.959	Dieldrin	5.9796	0.8131%	18882	3837	4.9	2	0	-.5128	3.1669E-04
30	13.160	4,4-DDE	5.1769	0.7039%	14730	2947	5.0	2	0	-.1547	3.5145E-04
31	13.410		0.0000	0.0000%	37283	8102	4.6	1			1.0000E-09
32	13.873	Endrin	5.2385	0.7123%	15661	2447	6.4	1	0	1.215	3.3450E-04
33	14.312		0.0000	0.0000%	11542	2023	5.7	1			1.0000E-09
34	14.579	4'4-DDD	40.7795	5.5450%	73646	15368	4.8	2	0	0	5.5372E-04
35	14.763	Endrin ald	61.5058	8.3632%	139623	34467	4.1	2	0	.2226	4.4051E-04
36	15.197		0.0000	0.0000%	5624	849	6.6	1			1.0000E-09
37	15.531	Endos sulf	1.8073	0.2458%	4192	1027	4.1	1	0	0	4.3115E-04
38	15.898	DDT	9.9996	1.3597%	22778	4589	5.0	1	0	.5273	4.3899E-04
39	16.466		0.0000	0.0000%	6503	945	6.9	1			1.0000E-09
40	17.936	Methoxychlor	4.0533	0.5512%	6604	1124	5.9	1	0	.3738	6.1380E-04
41	22.461		0.0000	0.0000%	3423	717	4.8	1			1.0000E-09
42	23.413	OCS	128.5828	17.4840%	571418	117826	4.8	1	0	0	2.2502E-04

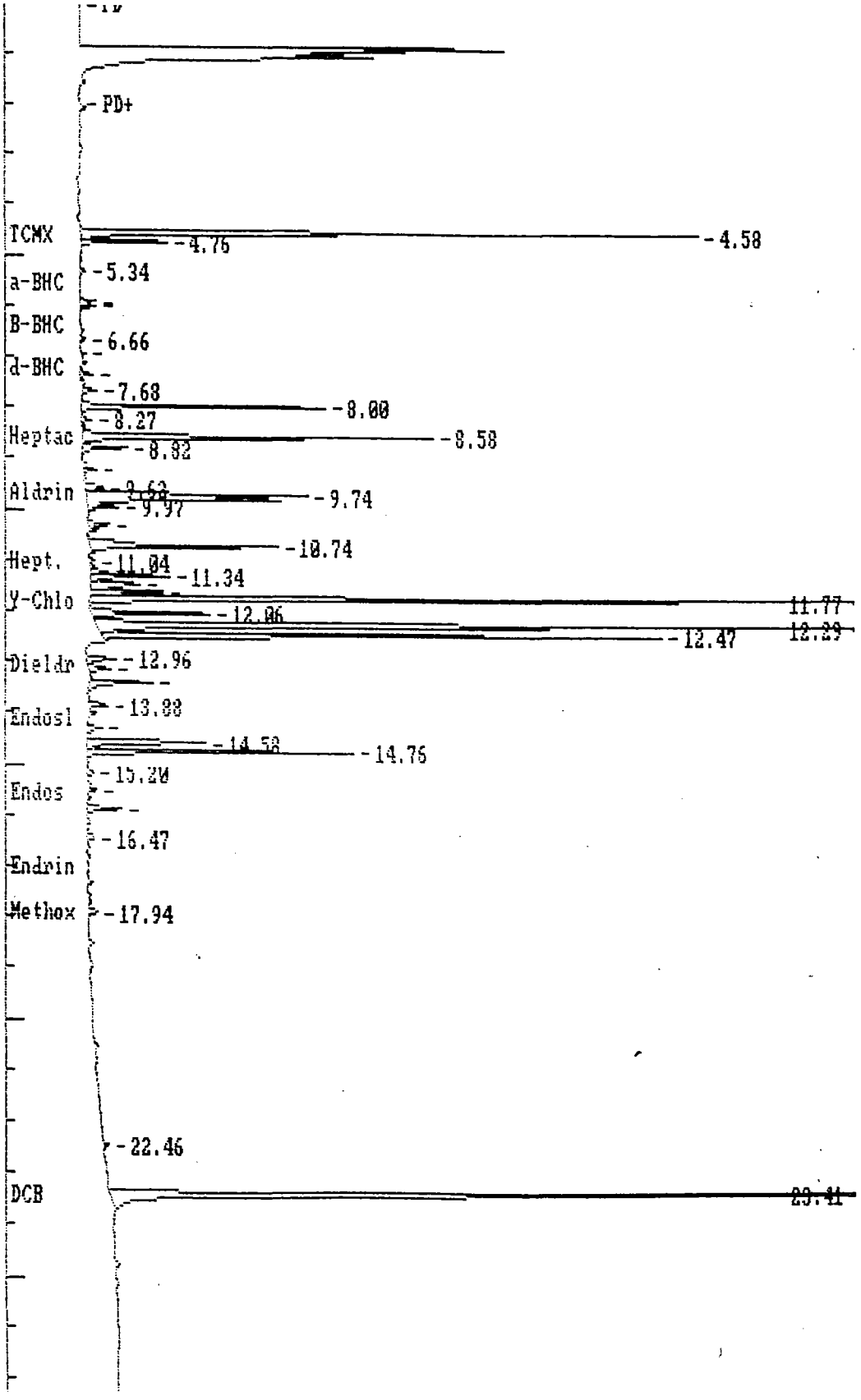
326

933828

TOTAL AMOUNT = 735.4310

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DED016.ATB
Data File = D:DED016.PTS Printed on 12-06-1995 at 13:00:29
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



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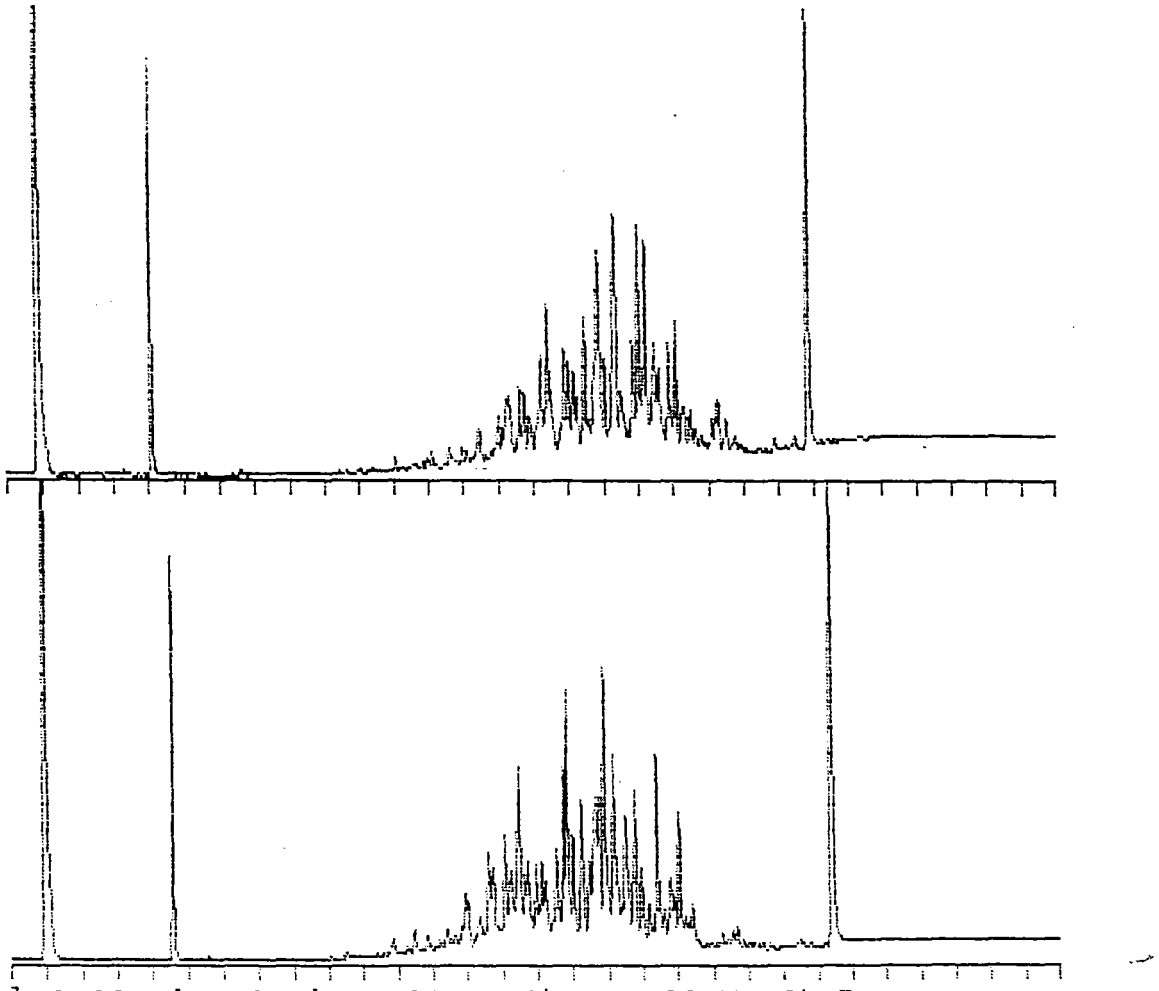


[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
tox 2.5ppm Processed: 12-06-1995 13:33:54, segment 7, cycle 7
RAW DATA SAVED IN FILE D:DED017.PTS Second Channel Stored in D:EED017.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 13:34:21 Version 5.1.5 **********

* Sample Name: tox 2.5ppm Data File: D:DED017 *
* Date: 12-06-1995 13:03:26 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* 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 8L	REF PEAK	% DELTA RET TIME	CONC/AREA

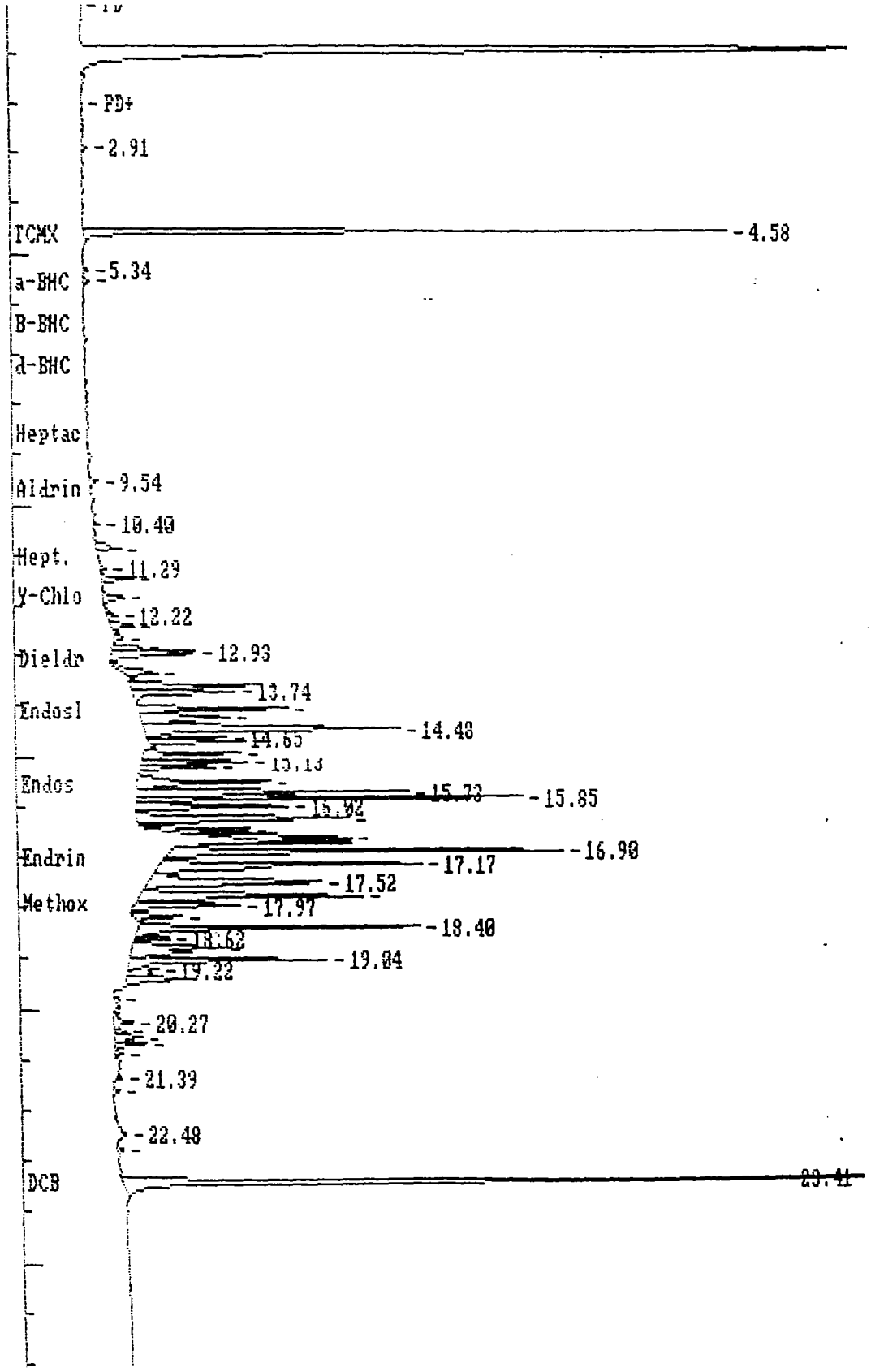
4	5.561	a-BHC	1.2247	0.1726%	3372	851	4.0 2	0	0	3.6317E-04
5	9.536	Aldrin	1.8464	0.2601%	5037	1045	4.8 1	0	-1.184	3.6660E-04
6	10.404		0.0000	0.0000%	3097	810	3.8 1			1.0000E-09
7	10.888	Hept. epox.	7.4505	1.0495%	20748	3170	6.5 1	0	-.9244	3.5909E-04
8	11.289		0.0000	0.0000%	3171	786	4.0 1			1.0000E-09
9	11.490		0.0000	0.0000%	20125	4148	4.9 1			1.0000E-09
10	11.857	Y-Chlordane	5.6632	0.7977%	17366	2724	6.4 1	0	.5682	3.2611E-04
11	12.224	a-Chlordane	2.9141	0.4105%	9006	1400	6.4 1	0	-.5337	3.2358E-04
12	12.425		0.0000	0.0000%	16040	2853	5.6 1			1.0000E-09
13	12.675		0.0000	0.0000%	8750	1417	6.2 2			1.0000E-09
14	12.842		0.0000	0.0000%	16727	3970	4.2 2			1.0000E-09
15	12.926	Dieldrin	28.0622	3.9530%	88612	10783	8.2 2	0	-.7692	3.1669E-04
16	13.377	4,4-DDE	11.4338	1.6106%	32533	4116	7.9 1	0	1.492	3.5145E-04
17	13.611		0.0001	0.0000%	83175	16726	5.0 2			1.0000E-09
18	13.744	Endrin	22.9236	3.2291%	68531	13130	5.2 2	0	.2414	3.3450E-04
19	14.078	Endoslf II	30.9326	4.3573%	84359	19203	4.4 2	0	.1297	3.6668E-04
20	14.262		0.0001	0.0000%	84345	11367	7.4 2			1.0000E-09
21	14.479		0.0002	0.0000%	195230	32774	6.0 2			1.0000E-09
22	14.646	4'4-DDD	22.3478	3.1480%	40359	10180	4.0 2	0	.4588	5.5372E-04
23	14.729	Endrin ald	21.0768	2.9690%	47846	12274	3.9 2	0	0	4.4051E-04
24	14.963		0.0000	0.0000%	48068	12551	3.8 2			1.0000E-09
25	15.130		0.0001	0.0000%	68426	13655	5.0 2			1.0000E-09
26	15.230		0.0000	0.0000%	47087	9688	4.9 2			1.0000E-09
27	15.531	Endos sulf	40.4101	5.6924%	93726	17008	5.5 2	0	0	4.3115E-04
28	15.731		0.0001	0.0000%	137812	34915	3.9 2			1.0000E-09
29	15.848	DDT	95.2103	13.4118%	216882	49740	4.4 2	0	.2105	4.3899E-04
30	16.015		0.0001	0.0000%	93224	19553	4.8 2			1.0000E-09
31	16.249		0.0002	0.0000%	159407	27178	5.9 1			1.0000E-09
32	16.466		0.0000	0.0000%	48950	10305	4.8 1			1.0000E-09
33	16.650		0.0001	0.0000%	73368	12920	5.7 1			1.0000E-09
34	16.900	Endrin ket.	75.3379	10.6125%	234461	50325	4.7 1	0	-.5858	3.2132E-04
35	17.168		0.0002	0.0000%	201687	33637	6.0 2			1.0000E-09
36	17.518		0.0002	0.0000%	171940	22243	7.7 2			1.0000E-09
37	17.785	Methoxychlor	97.9383	13.7961%	159560	28723	5.6 2	0	-.4672	6.1380E-04
38	17.969		0.0001	0.0000%	72518	13758	5.3 2			1.0000E-09
39	18.186		0.0000	0.0000%	26355	6166	4.3 1			1.0000E-09
40	18.403		0.0002	0.0000%	162577	36215	4.5 2			1.0000E-09
41	18.621		0.0000	0.0000%	17893	4775	3.7 2			1.0000E-09
42	18.804		0.0001	0.0000%	101540	11951	8.5 2			1.0000E-09
43	19.038		0.0001	0.0000%	119997	25410	4.7 3			1.0000E-09
44	19.222		0.0000	0.0000%	31349	3589	8.7 4			1.0000E-09
45	19.422		0.0000	0.0000%	42096	7250	5.8 2			1.0000E-09
46	19.840		0.0000	0.0000%	2815	519	5.4 1			1.0000E-09
47	20.274		0.0000	0.0000%	17677	2579	6.9 2			1.0000E-09
48	20.457		0.0000	0.0000%	6655	1484	4.5 2			1.0000E-09
49	20.574		0.0000	0.0000%	17688	3638	4.9 2			1.0000E-09
50	20.691		0.0000	0.0000%	19692	4166	4.7 2			1.0000E-09
51	20.892		0.0000	0.0000%	4700	1078	4.4 2			1.0000E-09
52	21.393		0.0000	0.0000%	2889	855	3.4 1			1.0000E-09
53	21.626		0.0000	0.0000%	3889	803	4.8 1			1.0000E-09
54	22.478		0.0000	0.0000%	3164	757	4.2 1			1.0000E-09
55	22.779		0.0000	0.0000%	3603	728	4.9 1			1.0000E-09
56	23.413	DCB	131.6998	18.5519%	585270	123635	4.7 1	0	0	2.2502E-04

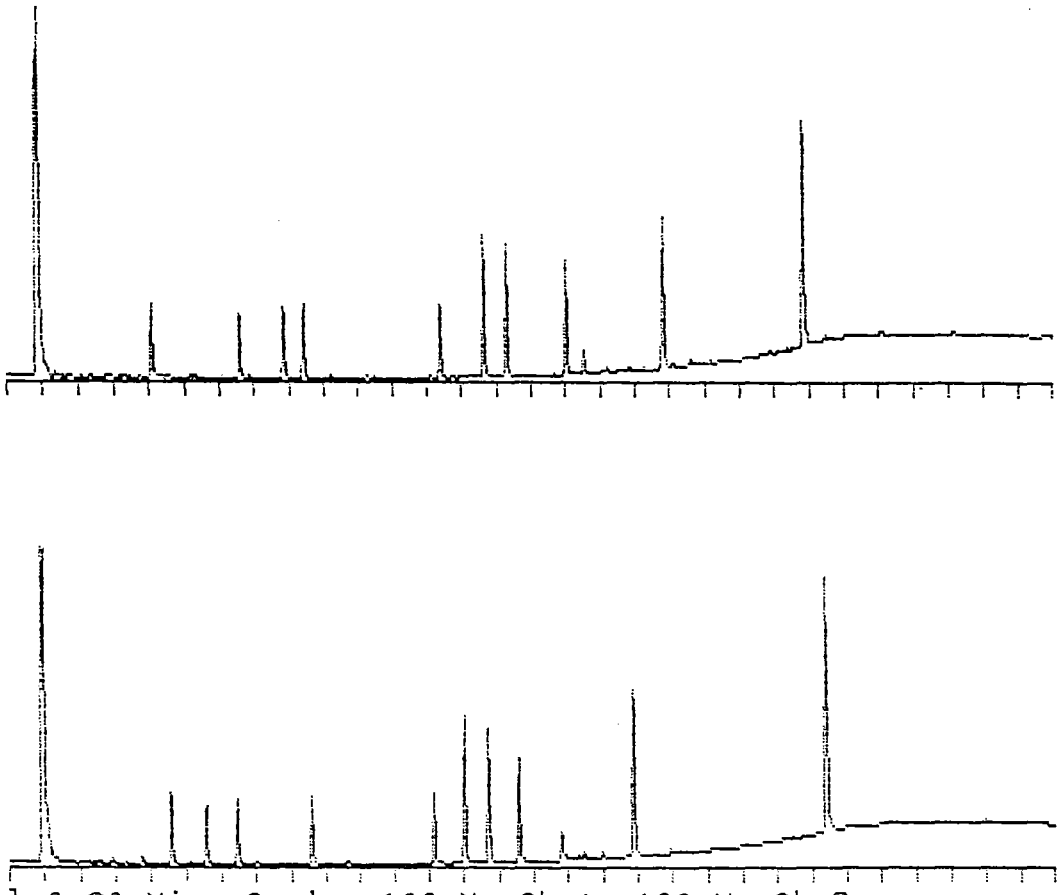
TOTAL AMOUNT = 709.9005

329

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED017.ATB
Data File = D:DED017.PTS Printed on 12-06-1995 at 13:34:37
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 a Processed: 12-07-1995 15:10:17, segment 2, cycle 39
RAW DATA SAVED IN FILE D:DED0139.PTS Second Channel Stored in D:EED0139.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-07-1995 15:10:48 Version 5.1.5 **********
* Sample Name: pest mix a 20 Data File: D:DED0139 *
* Date: 12-07-1995 14:39:57 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 39 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

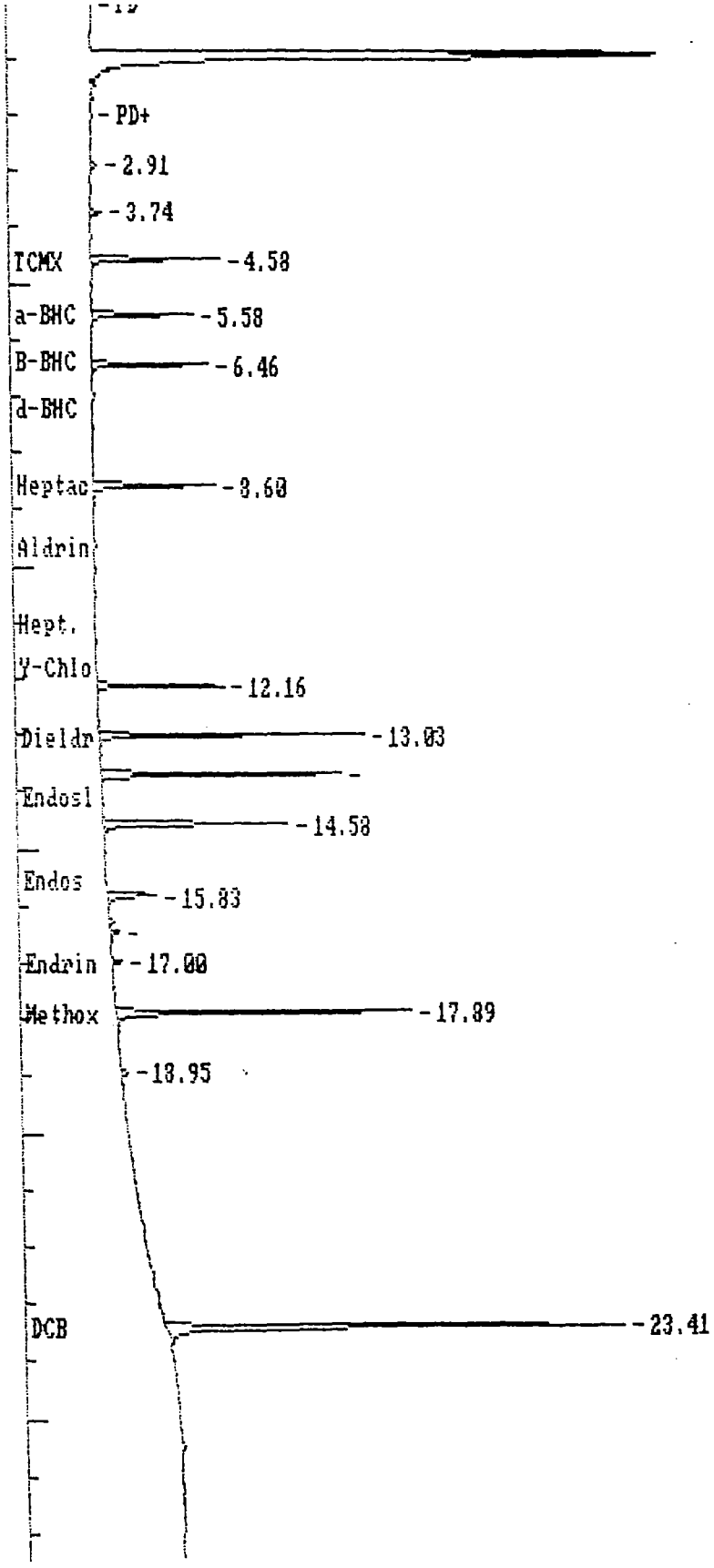
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.906		0.0000	0.0000%	2751					

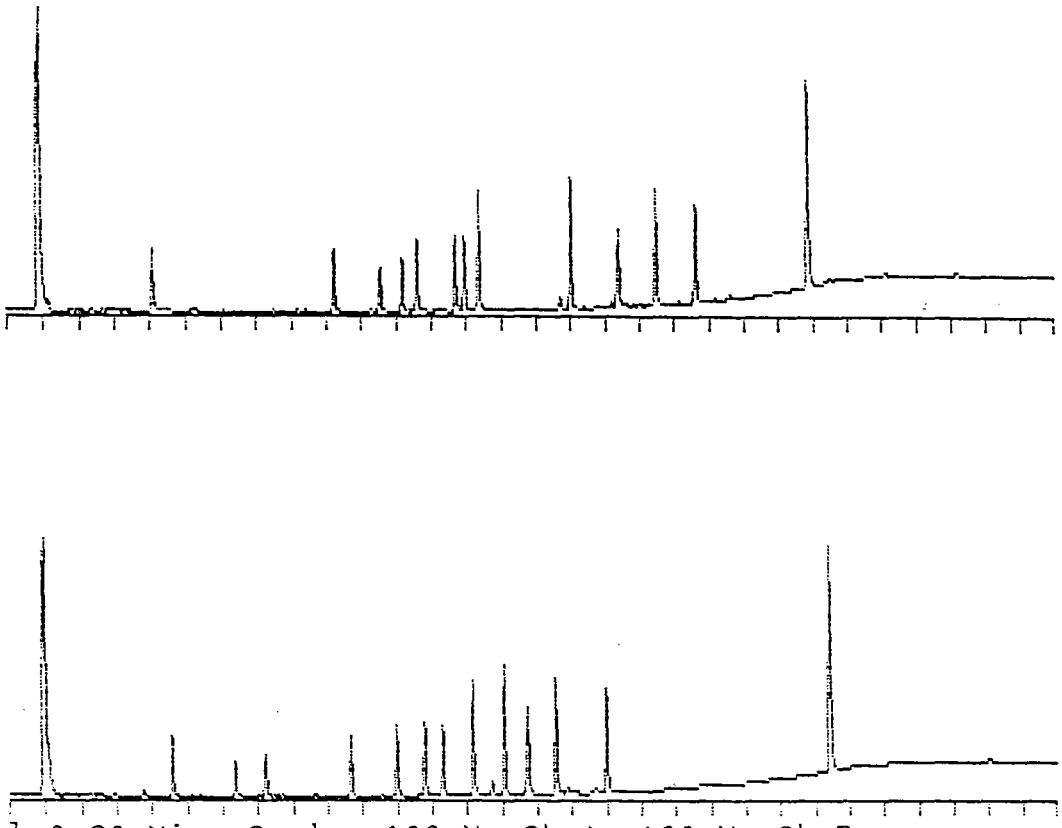
4	5.570 a-BHC	13.3873	4.2634%	42314	11561	3.7	1	0		.3021	3.5317E-04
5	6.463 Y-BHC	15.8252	4.3904%	46124	13261	3.5	1	0		0	3.4310E-04
6	8.600 Heptachlor	16.3608	4.5390%	53467	13995	3.8	1	0		.2389	3.0600E-04
7	12.158 Endosulfan I	19.3612	5.3714%	56810	14537	3.9	1	0		.1449	3.4080E-04
8	13.026 Dieldrin	34.8406	9.6659%	110016	30560	3.6	1	0		0	3.1669E-04
9	13.711 Endrin	34.7890	9.6516%	104003	27786	3.7	1	0		0	3.3450E-04
10	14.579 4'4-DDD	46.1304	12.7980%	83310	21309	3.9	1	0		0	5.5372E-04
11	15.832 DDT	13.3402	3.7010%	30388	5693	5.3	1	0		.1049	4.3899E-04
12	16.466	0.0000	0.0000%	5319	1076	4.9	1				1.0000E-09
13	17.001 Endrin ket.	1.6246	0.4507%	5056	1126	4.5	1	0		0	3.2132E-04
14	17.886 Methoxychlor	86.6969	24.0524%	141246	34280	4.1	1	0		0	6.1380E-04
15	18.955	0.0000	0.0000%	3669	731	5.0	1				1.0000E-09
16	23.413 DCB	54.9602	15.2477%	244242	53014	4.6	1	0		0	2.2502E-04

TOTAL AMOUNT = 360.4495

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0139.ATB
Data File = D:DED0139.PTS Printed on 12-07-1995 at 15:11:01
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: 12-07-1995 15:44:21, segment 3, cycle 40
RAW DATA SAVED IN FILE D:DED0140.PTS Second Channel Stored in D:EED0140.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-07-1995 15:44:51 Version 5.1.5 **********
* Sample Name: pest mix b 20 Data File: D:DED0140 *
* Date: 12-07-1995 15:14:00 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 40 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

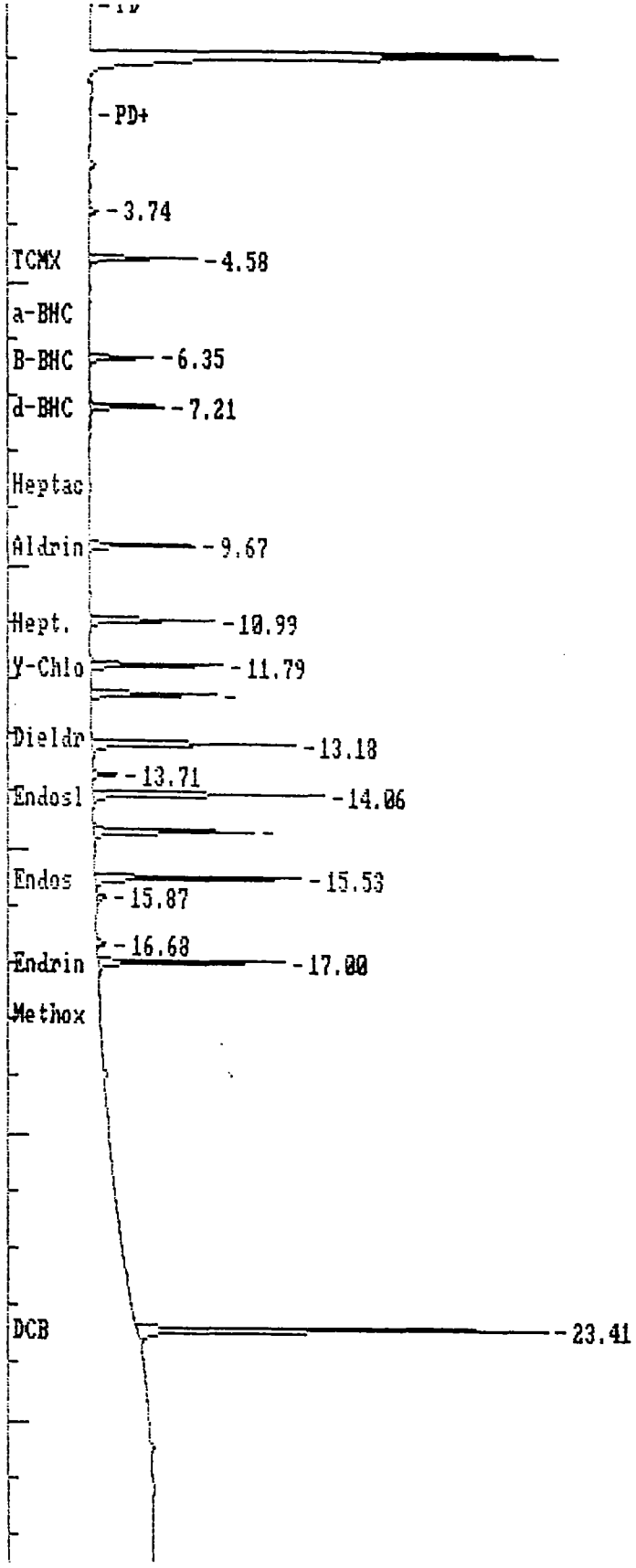
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.741									

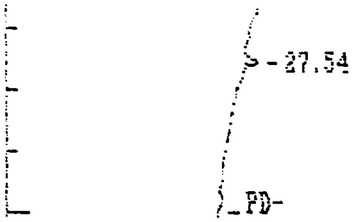
5	9.669	Aldrin	17.8371	4.9029%	48656	12244	4.0	1	0	.1999	3.6660E-04
6	10.989	Hept. epox.	19.6725	5.4074%	54784	14312	3.8	1	0	0	3.5909E-04
7	11.790	Y-Chlordane	18.9831	5.2179%	58211	15080	3.9	1	0	0	3.2611E-04
8	12.308	a-Chlordane	18.5668	5.1035%	57380	14414	4.0	1	0	.1456	3.2358E-04
9	13.176	4,4-DDE	32.0741	8.8163%	91261	23344	3.9	1	0	0	3.5145E-04
10	13.711	Endrin	4.2196	1.1599%	12615	2867	4.4	1	0	0	3.3450E-04
11	14.061	Endoslf II	37.7641	10.3803%	102990	26582	3.9	1	0	0	3.6668E-04
12	14.713	Endrin ald	36.3192	9.9832%	82448	18376	4.5	1	0	-.1174	4.4051E-04
13	15.531	Endos sulf	42.0487	11.5581%	97526	23681	4.1	2	0	0	4.3115E-04
14	15.865	DDT	2.8350	0.7793%	6458	1089	5.9	2	0	.3161	4.3899E-04
15	16.683		0.0000	0.0000%	5430	1066	5.1	1			1.0000E-09
16	17.001	Endrin ket.	27.7973	7.6407%	86509	21301	4.1	1	0	0	3.2132E-04
17	23.413	DCB	49.3374	13.5615%	219254	46915	4.7	1	0	0	2.2502E-04

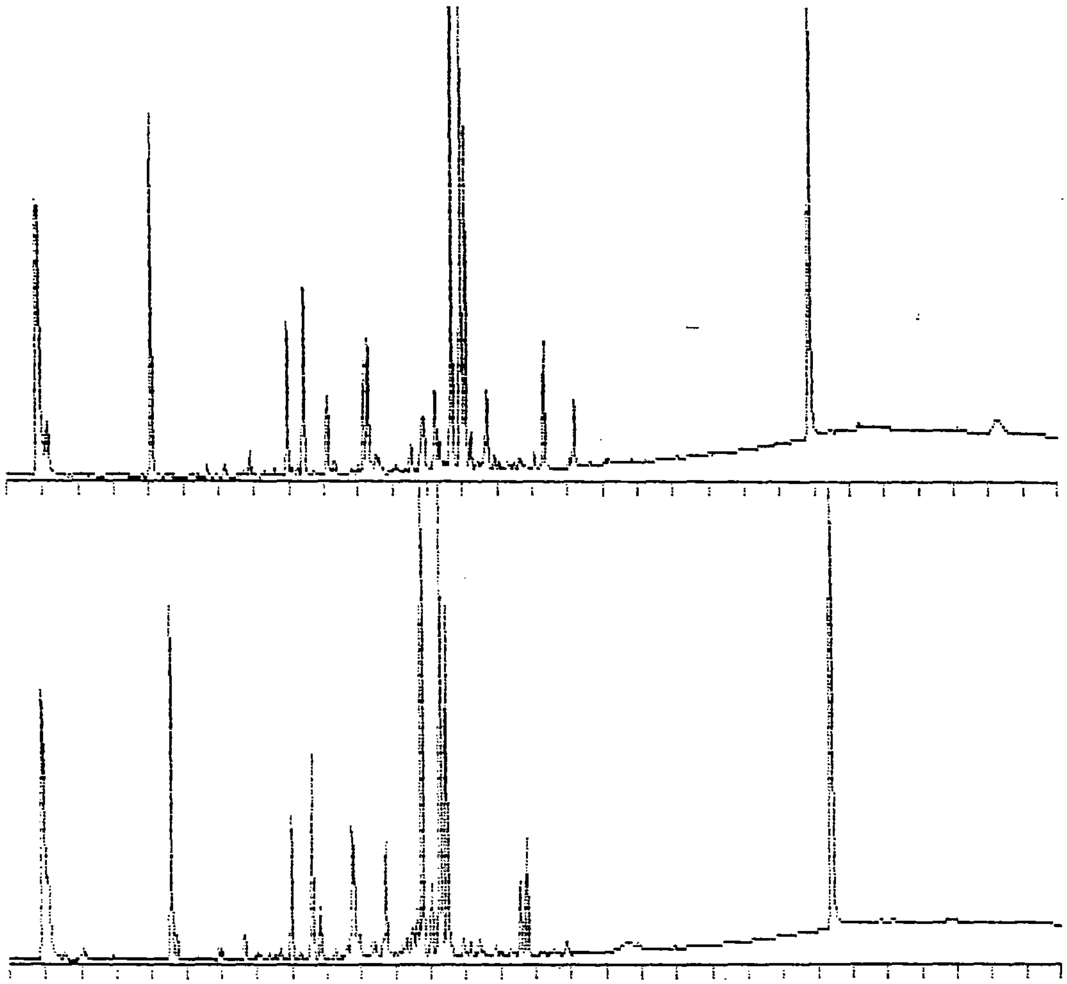
TOTAL AMOUNT = 363.8044

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0140.ATB
Data File = D:DED0140.PTS Printed on 12-07-1995 at 15:45:04
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: 12-08-1995 13:10:16, segment 7, cycle 52
RAW DATA SAVED IN FILE D:DED0152.PTS Second Channel Stored in D:EED0152.PTS

***** EXTERNAL STANDARD TABLE *****

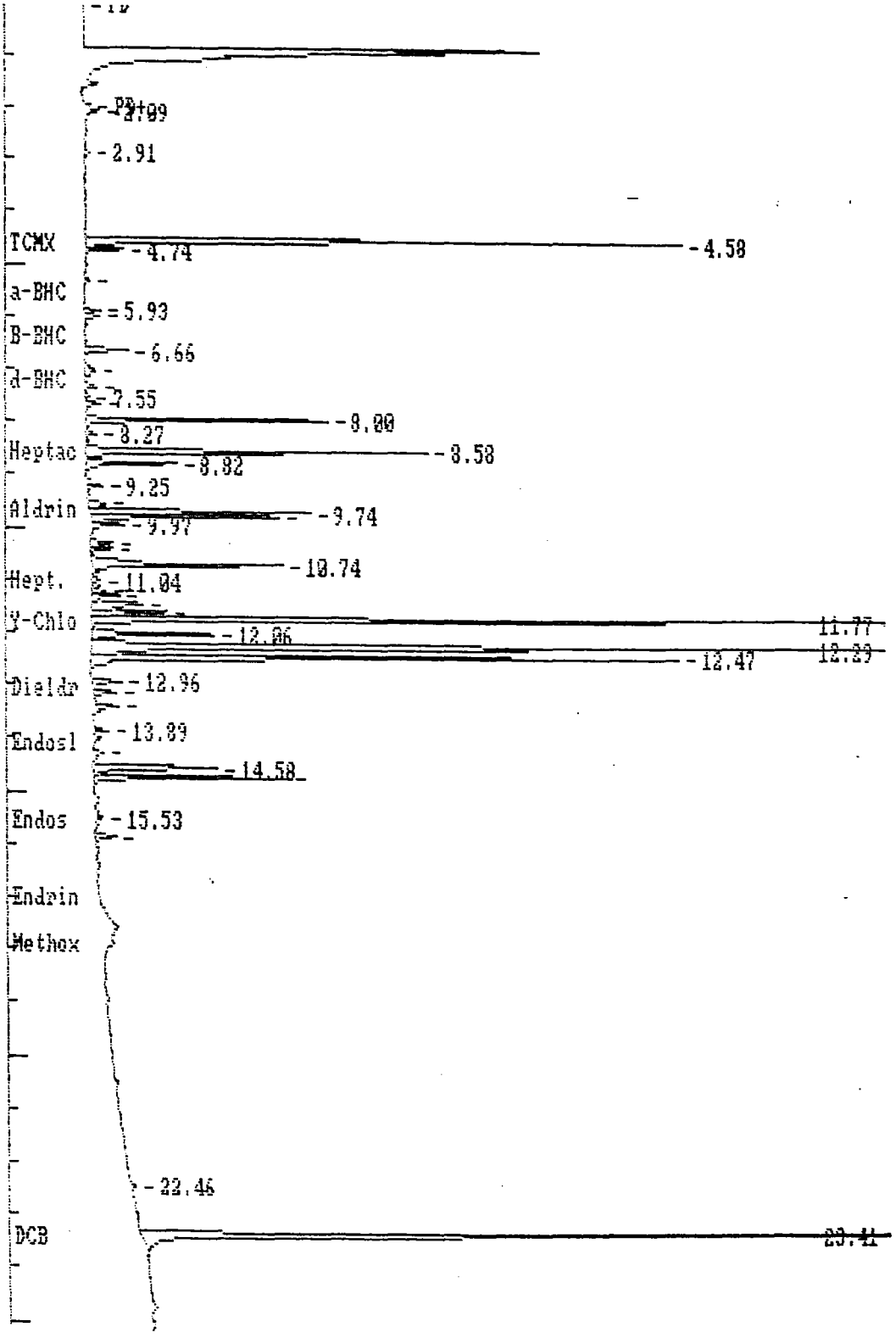
```
******************** 12-08-1995 13:10:44 Version 5.1.5 ********************
* Sample Name: CHLORDANE 1PPM                          Data File: D:DED0152  *
* Date: 12-08-1995 12:39:50 Method: M:APES-H  11-17-1995 15:56:16  #  376 *
* Interface: 1   Cycle#:  52   Operator PVL Channel#: 0   Vial#: N.A.     *
* 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	2.088		0.0000	0.0000%	5098	1325	3.8	1			1.0000E-09
2	2.906		0.0000	0.0000%	3062	585	5.2	1			1.0000E-09
3	4.576	TCMX	104.4544	15.1961%	262019	73583	3.6	2	0	0	3.9865E-04
4	4.743		0.0000	0.0000%	16640	4642	3.6	2			1.0000E-09
5	5.344		0.0000	0.0000%	2548	666	3.8	1			1.0000E-09
6	5.929		0.0000	0.0000%	8105	2081	3.9	2			1.0000E-09
7	6.029		0.0000	0.0000%	8075	1973	4.1	2			1.0000E-09
8	6.663		0.0000	0.0000%	20649	5225	4.0	1			1.0000E-09
9	7.004		0.0000	0.0000%	12600	1385	9.1	2			1.0000E-09
10	7.365		0.0000	0.0000%	7942	1630	4.9	2			1.0000E-09
11	7.548		0.0000	0.0000%	2743	596	4.6	2			1.0000E-09
12	7.682		0.0000	0.0000%	7120	1854	3.8	2			1.0000E-09
13	7.999		0.0001	0.0000%	107053	29772	3.6	2			1.0000E-09
14	8.266		0.0000	0.0000%	6432	1330	4.8	2			1.0000E-09
15	8.584	Heptachlor	48.7550	7.0929%	159330	42005	3.8	2	0	0	3.0600E-04
16	8.818		0.0000	0.0000%	45901	11036	4.2	2			1.0000E-09
17	9.252		0.0000	0.0000%	7871	1946	4.0	1			1.0000E-09
18	9.569	Aldrin	6.1756	0.8984%	16846	2187	7.7	2	0	-.8383	3.5660E-04
19	9.736		0.0001	0.0000%	96177	27029	3.6	2			1.0000E-09
20	9.820		0.0001	0.0000%	91350	23011	4.0	2			1.0000E-09
21	9.970		0.0000	0.0000%	20345	3919	5.2	2			1.0000E-09
22	10.321		0.0000	0.0000%	12720	2772	4.6	2			1.0000E-09
23	10.438		0.0000	0.0000%	11424	2719	4.2	2			1.0000E-09
24	10.738		0.0001	0.0000%	98942	23081	4.3	1			1.0000E-09
25	11.039	Hept. epox.	1.6259	0.2365%	4528	1065	4.2	2	0	.4431	3.5909E-04
26	11.239		0.0000	0.0000%	11153	1825	6.1	2			1.0000E-09
27	11.339		0.0000	0.0000%	15838	3416	4.6	2			1.0000E-09
28	11.490		0.0000	0.0000%	37888	6302	6.0	2			1.0000E-09
29	11.623		0.0000	0.0000%	43766	9234	4.7	2			1.0000E-09
30	11.773	Y-Chlordane	138.1754	20.1018%	423712	112495	3.8	2	0	-.1399	3.2611E-04
31	12.057	Endosulfan I	22.9334	3.3218%	66999	14949	4.5	2	0	-.6804	3.4080E-04
32	12.291	a-Chlordane	138.0985	20.0906%	426784	110269	3.9	2	0	0	3.2358E-04
33	12.475		0.0003	0.0000%	281608	72353	3.9	2			1.0000E-09
34	12.959	Dieldrin	5.9947	0.8721%	18929	3708	5.1	2	0	-.5128	3.1669E-04
35	13.160	4,4-DDE	4.6449	0.6757%	13216	2977	4.4	2	0	-.1547	3.5145E-04
36	13.427		0.0000	0.0000%	10690	2678	4.0	1			1.0000E-09
37	13.894	Endoslf II	2.5737	0.3751%	7033	1766	4.0	1	0	-1.177	3.6588E-04
38	14.312		0.0000	0.0000%	4514	1039	4.3	1			1.0000E-09
39	14.579	4'4-DDD	39.8987	5.8045%	72056	15077	4.8	2	0	0	5.5372E-04
40	14.763	Endrin ald	41.7052	6.0673%	94674	23736	4.0	2	0	.2226	4.4051E-04
41	15.531	Endos sulf	1.3835	0.2013%	3209	822	3.9	1	0	0	4.3115E-04
42	15.898	DDT	6.0790	0.8844%	13848	2552	5.4	1	0	.5273	4.3899E-04
43	22.461		0.0000	0.0000%	2608	584	4.5	1			1.0000E-09
44	23.413	DCB	124.9734	18.1812%	555378	121654	4.6	1	0	0	2.2502E-04

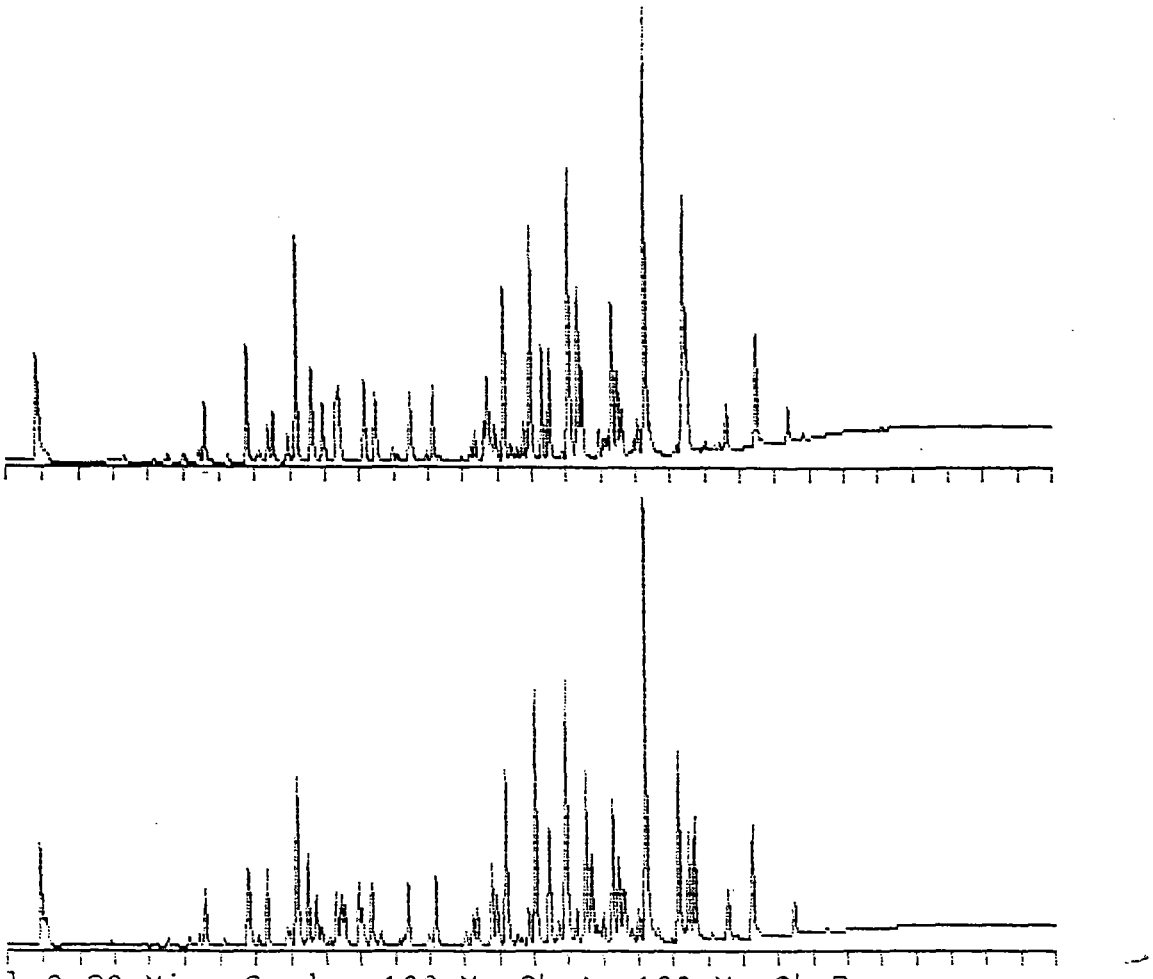
TOTAL AMOUNT = 687.3774

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0152.ATB
Data File = D:DED0152.PTS Printed on 12-08-1995 at 13:11:01
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
a1660 1ppm Processed: 12-06-1995 14:07:53, segment 8, cycle 8
RAW DATA SAVED IN FILE D:DED018.PTS Second Channel Stored in D:EED018.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 14:08:21 Version 5.1.5 **********

* Sample Name: a1660 1ppm Data File: D:DED018 *
* Date: 12-06-1995 13:37:31 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 8 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

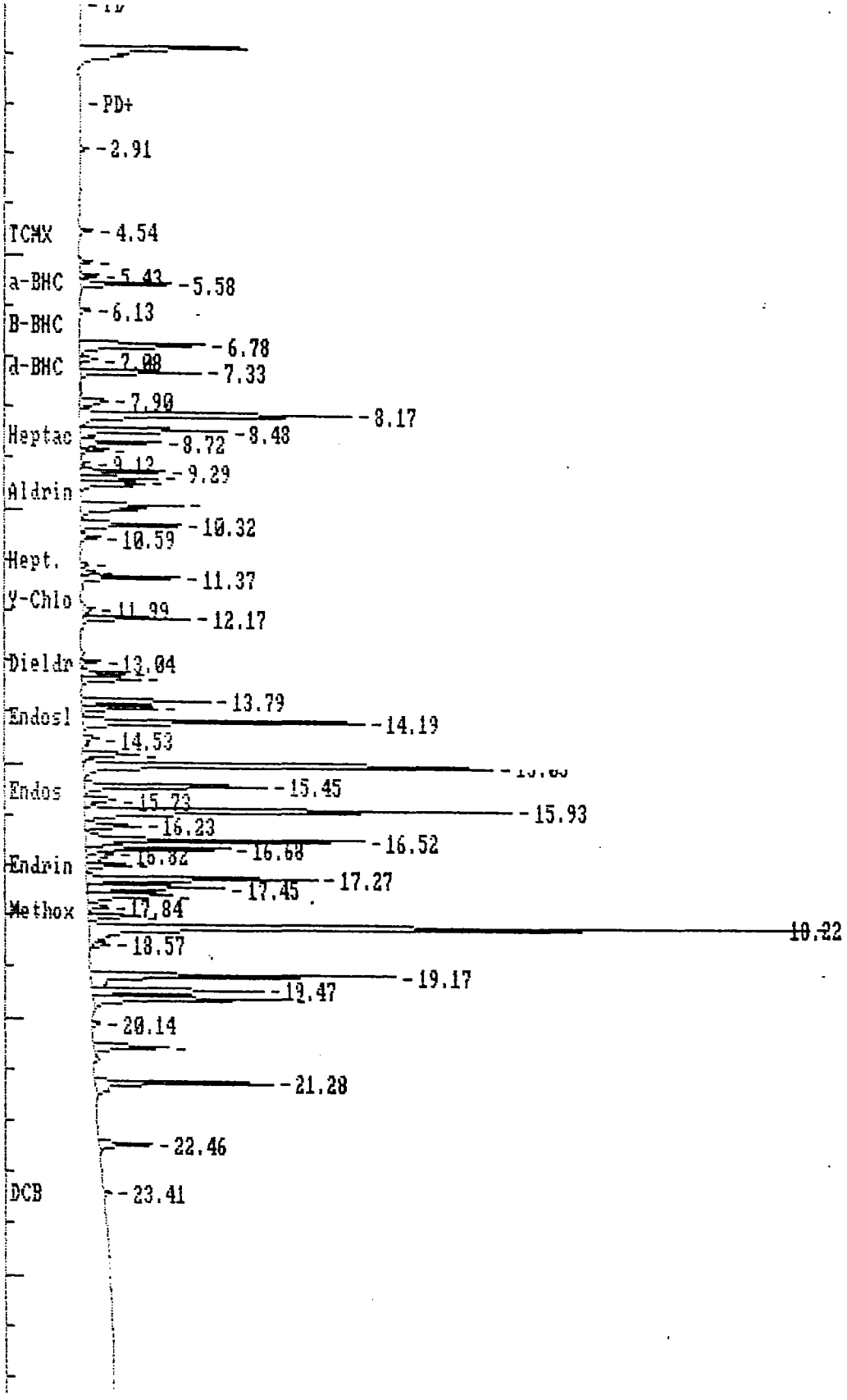
4	5.427		0.0000	0.0000%	9987	2377	4.2 2			1.0000E-09
5	5.578	a-BHC	18.4335	6.6716%	50757	11627	4.4 2	0	.3021	3.6317E-04
6	6.129		0.0000	0.0000%	5980	1389	4.3 1			1.0000E-09
7	6.780		0.0001	0.0000%	107927	15995	6.7 2			1.0000E-09
8	7.081		0.0000	0.0000%	9719	2244	4.3 2			1.0000E-09
9	7.331	d-BHC	33.1465	11.9966%	65548	15481	4.2 1	0	1.682	5.0568E-04
10	7.899		0.0000	0.0000%	25401	3579	7.1 2			1.0000E-09
11	8.166		0.0002	0.0001%	193251	34888	5.5 2			1.0000E-09
12	8.484	Heptachlor	26.5210	9.5987%	86670	18787	4.6 2	0	-1.123	3.0600E-04
13	8.717		0.0001	0.0000%	50049	10360	4.8 2			1.0000E-09
14	8.868		0.0000	0.0000%	17001	3581	4.7 2			1.0000E-09
15	9.118		0.0000	0.0000%	5448	1266	4.3 2			1.0000E-09
16	9.285		0.0000	0.0000%	45338	10915	4.2 2			1.0000E-09
17	9.419		0.0000	0.0000%	44192	9997	4.4 2			1.0000E-09
18	9.519	Aldrin	16.4854	5.9665%	44968	8325	5.4 2	0	-1.357	3.6660E-04
19	9.936		0.0001	0.0000%	91972	13141	7.0 2			1.0000E-09
20	10.321		0.0001	0.0000%	66454	12854	5.2 2			1.0000E-09
21	10.588		0.0000	0.0000%	11647	2535	4.6 2			1.0000E-09
22	11.122	Hept. epox.	1.7402	0.6298%	4846	1083	4.5 2	0	1.202	3.5909E-04
23	11.256		0.0000	0.0000%	8937	1908	4.7 2			1.0000E-09
24	11.373		0.0001	0.0000%	55013	12686	4.3 2			1.0000E-09
25	11.991	Y-Chlordane	2.9051	1.0514%	8908	1523	5.9 2	0	1.701	3.2611E-04
26	12.174	Endosulfan I	20.2742	7.3378%	59490	13786	4.3 2	0	.2825	3.4080E-04
27	13.043	Dieldrin	3.6348	1.3155%	11478	2544	4.5 2	0	.1281	3.1669E-04
28	13.243	4,4-DDE	9.2198	3.3369%	26233	5938	4.4 2	0	.4787	3.5145E-04
29	13.377		0.0000	0.0000%	35484	7701	4.6 2			1.0000E-09
30	13.794	Endrin	23.6155	8.5471%	70599	16514	4.3 2	0	.6068	3.3450E-04
31	13.945	Endoslf II	16.6626	6.0306%	45442	9807	4.6 2	0	-.8214	3.6668E-04
32	14.195		0.0002	0.0001%	168243	36170	4.7 2			1.0000E-09
33	14.529	4'4-DDD	3.8799	1.4042%	7007	1779	3.9 1	0	-.3429	5.5372E-04
34	14.846	Endrin ald	14.7666	5.3444%	33522	7377	4.5 2	0	.7895	4.4051E-04
35	15.047		0.0003	0.0001%	274895	52511	5.2 2			1.0000E-09
36	15.447	Endos sulf	52.0724	18.8464%	120775	23626	5.1 2	0	-.5312	4.3115E-04
37	15.731	DDT	10.7688	3.8975%	24531	4154	5.9 2	0	-.5286	4.3899E-04
38	15.932		0.0003	0.0001%	281663	54764	5.1 2			1.0000E-09
39	16.232		0.0000	0.0000%	38600	7245	5.3 2			1.0000E-09
40	16.516		0.0002	0.0001%	163371	35848	4.6 2			1.0000E-09
41	16.683		0.0001	0.0000%	85087	18596	4.6 3			1.0000E-09
42	16.817		0.0000	0.0000%	22118	3073	7.2 4			1.0000E-09
43	17.017	Endrin ket.	8.7056	3.1508%	27093	5863	4.6 2	0	.1017	3.2132E-04
44	17.268		0.0001	0.0000%	132222	29831	4.4 2			1.0000E-09
45	17.451		0.0001	0.0000%	79258	17666	4.5 2			1.0000E-09
46	17.602		0.0001	0.0000%	71732	10943	6.6 2			1.0000E-09
47	17.836	Methoxychlor	9.6348	3.4871%	15697	2575	6.1 2	0	-.1869	6.1380E-04
48	18.019		0.0000	0.0000%	33388	6733	5.0 2			1.0000E-09
49	18.220		0.0005	0.0002%	463648	92186	5.0 3			1.0000E-09
50	18.570		0.0000	0.0000%	10593	2238	4.7 4			1.0000E-09
51	19.172		0.0002	0.0001%	213584	39381	5.4 2			1.0000E-09
52	19.472		0.0001	0.0000%	99717	22022	4.5 2			1.0000E-09
53	19.639		0.0001	0.0000%	126469	25306	5.0 2			1.0000E-09
54	20.140		0.0000	0.0000%	5615	1095	5.1 1			1.0000E-09
55	20.591		0.0001	0.0000%	51037	9715	5.3 1			1.0000E-09
56	21.276		0.0001	0.0000%	120787	22951	5.3 1			1.0000E-09
57	22.461		0.0000	0.0000%	34168	6829	5.0 1			1.0000E-09
58	23.413	DCB	1.0171	0.3681%	4520	958	4.7 1	0	0	2.2502E-04

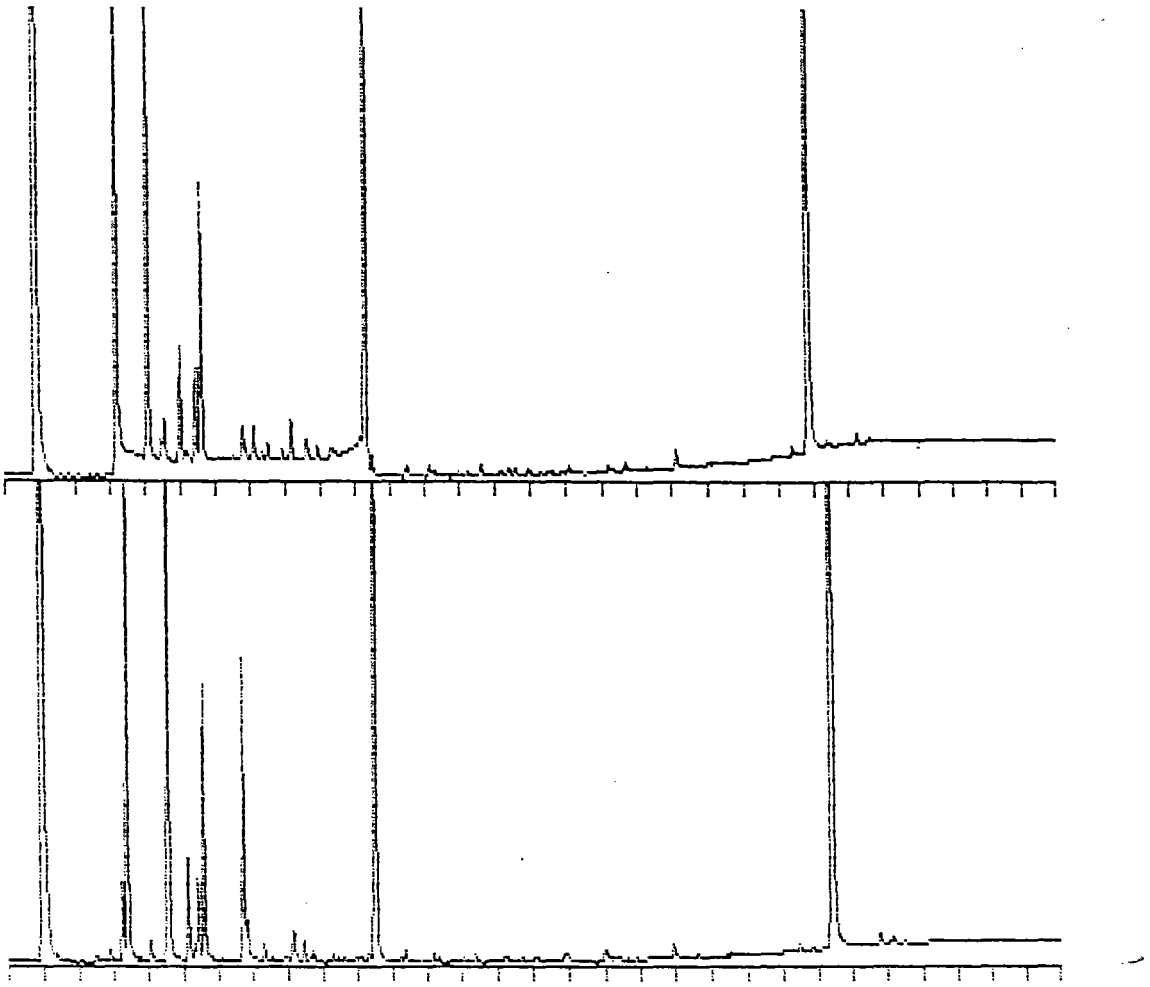
341

TOTAL AMOUNT = 276.2990

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DED018.ATB
Data File = D:DED018.PTS Printed on 12-06-1995 at 14:08:38
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
a1221 2ppm Processed: 12-06-1995 14:42:05, segment 9, cycle 9
RAW DATA SAVED IN FILE D:DED019.PTS Second Channel Stored in D:EED019.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 14:42:36 Version 5.1.5 **********
* Sample Name: a1221 2ppm Data File: D:DED019 *
* Date: 12-06-1995 14:11:36 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* 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

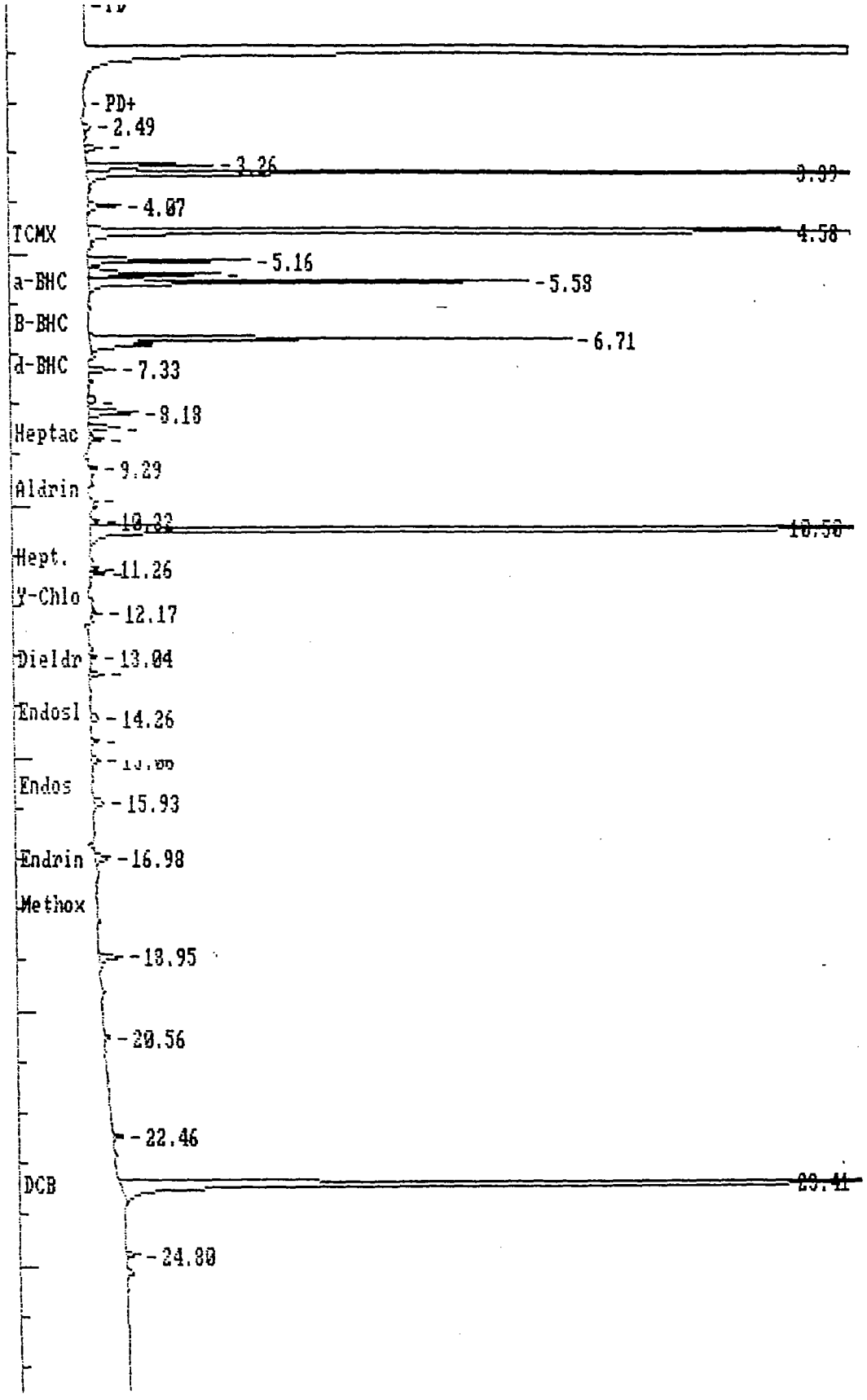
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	3.390		0.0007	0.0001%	659971	204343	3.2	2			1.0000E-09
5	4.075		0.0000	0.0000%	20201	4256	4.7	1			1.0000E-09
6	4.576	TCMX	328.5391	42.8560%	824127	222194	3.7	1	0	0	3.9865E-04
7	5.160		0.0001	0.0000%	89473	20885	4.3	2			1.0000E-09
8	5.427		0.0001	0.0000%	76302	16987	4.5	2			1.0000E-09
9	5.578	a-BHC	86.6000	11.2965%	238457	56789	4.2	2	0	.3021	3.6317E-04
10	6.713		0.0003	0.0000%	255104	62197	4.1	1			1.0000E-09
11	7.331	d-BHC	7.6906	1.0032%	15208	3527	4.3	1	0	1.682	5.0568E-04
12	7.966		0.0000	0.0000%	8387	1051	8.0	2			1.0000E-09
13	8.183		0.0000	0.0000%	36717	6450	5.7	2			1.0000E-09
14	8.484	Heptachlor	5.7189	0.7460%	18689	4099	4.6	2	0	-1.123	3.0600E-04
15	8.717		0.0000	0.0000%	9414	1946	4.8	2			1.0000E-09
16	9.285		0.0000	0.0000%	4956	1219	4.1	1			1.0000E-09
17	9.936		0.0000	0.0000%	3211	861	3.7	1			1.0000E-09
18	10.321		0.0000	0.0000%	6318	1195	5.3	2			1.0000E-09
19	10.504		0.0023	0.0003%	2342811	668774	3.5	2			1.0000E-09
20	11.256		0.0000	0.0000%	4467	1044	4.3	2			1.0000E-09
21	11.373		0.0000	0.0000%	9502	2033	4.7	2			1.0000E-09
22	12.174	Endosulfan I	2.1841	0.2849%	6409	1582	4.1	1	0	.2825	3.4080E-04
23	13.043	Dieldrin	1.3959	0.1821%	4408	1030	4.3	1	0	.1281	3.1669E-04
24	13.377		0.0000	0.0000%	8796	1912	4.6	1			1.0000E-09
25	14.262	Endoslf II	3.0203	0.3940%	8237	1090	7.6	1	0	1.435	3.6668E-04
26	14.696	Endrin ald	2.0282	0.2646%	4604	1034	4.5	1	0	-.2308	4.4051E-04
27	15.063		0.0000	0.0000%	8362	1161	7.2	1			1.0000E-09
28	15.932	DDT	5.2228	0.6813%	11897	1435	8.3	1	0	.7385	4.3899E-04
29	16.984	Endrin ket.	4.4143	0.5758%	13738	1882	7.3	1	0	0	3.2132E-04
30	18.955		0.0000	0.0000%	16484	2895	5.7	1			1.0000E-09
31	20.558		0.0000	0.0000%	3305	734	4.5	1			1.0000E-09
32	22.461		0.0000	0.0000%	6585	1358	4.8	1			1.0000E-09
33	23.413	DCB	319.7940	41.7152%	1421154	304737	4.7	1	0	0	2.2502E-04
34	24.799		0.0000	0.0000%	9031	1750	5.2	1			1.0000E-09

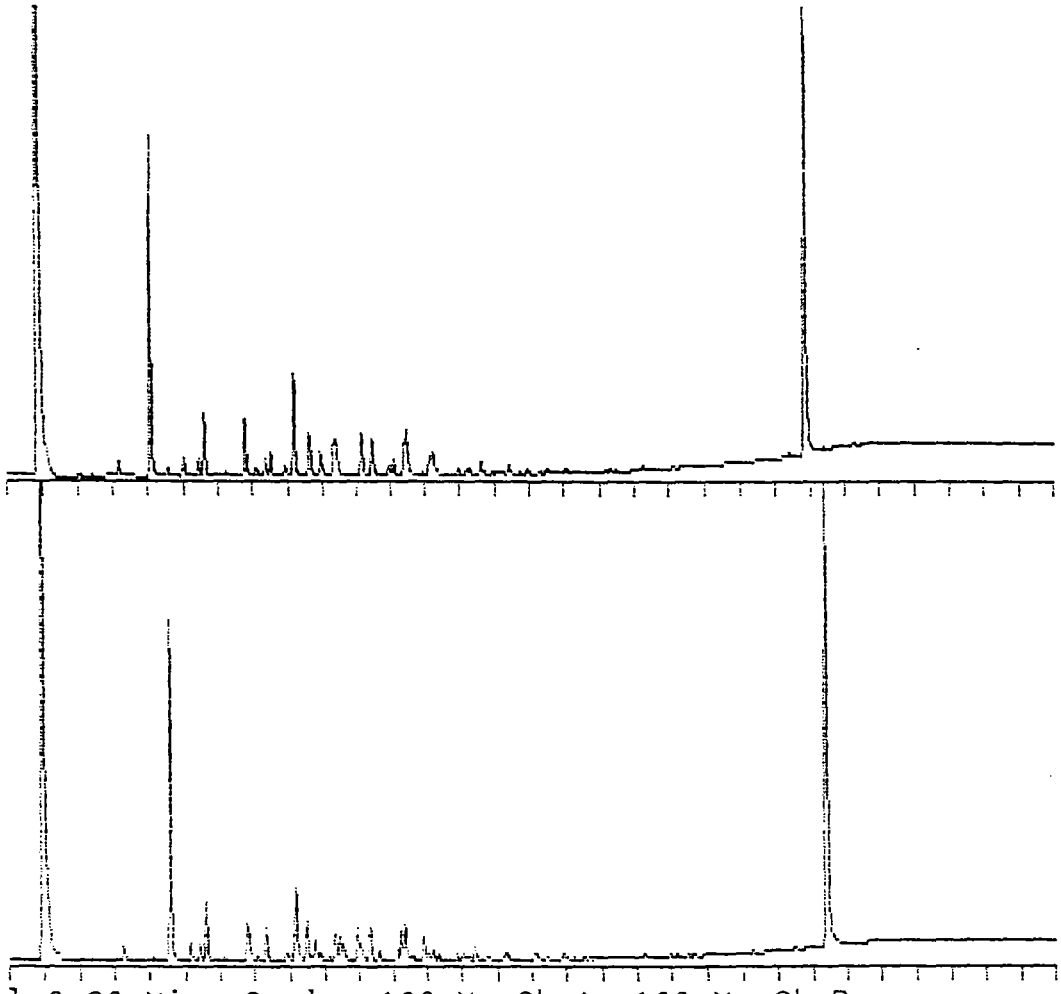
TOTAL AMOUNT = 766.6118

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED019.ATB
Data File = D:DED019.PTS Printed on 12-06-1995 at 14:42:51
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



Data file D:DED0111 not found.
Reprocess # 2 aborted.
Data file D:DED0112 not found.
Reprocess # 3 aborted.



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
blk pp 12- Processed: 12-06-1995 17:15:11, segment 10, cycle 10
Error, duplicate file name = D:EED0110.PTS
Error, duplicate file name = D:DED0110.PTS
RAW DATA SAVED IN FILE D:DFD0110.PTS Second Channel Stored in D:EFD0110.PTS

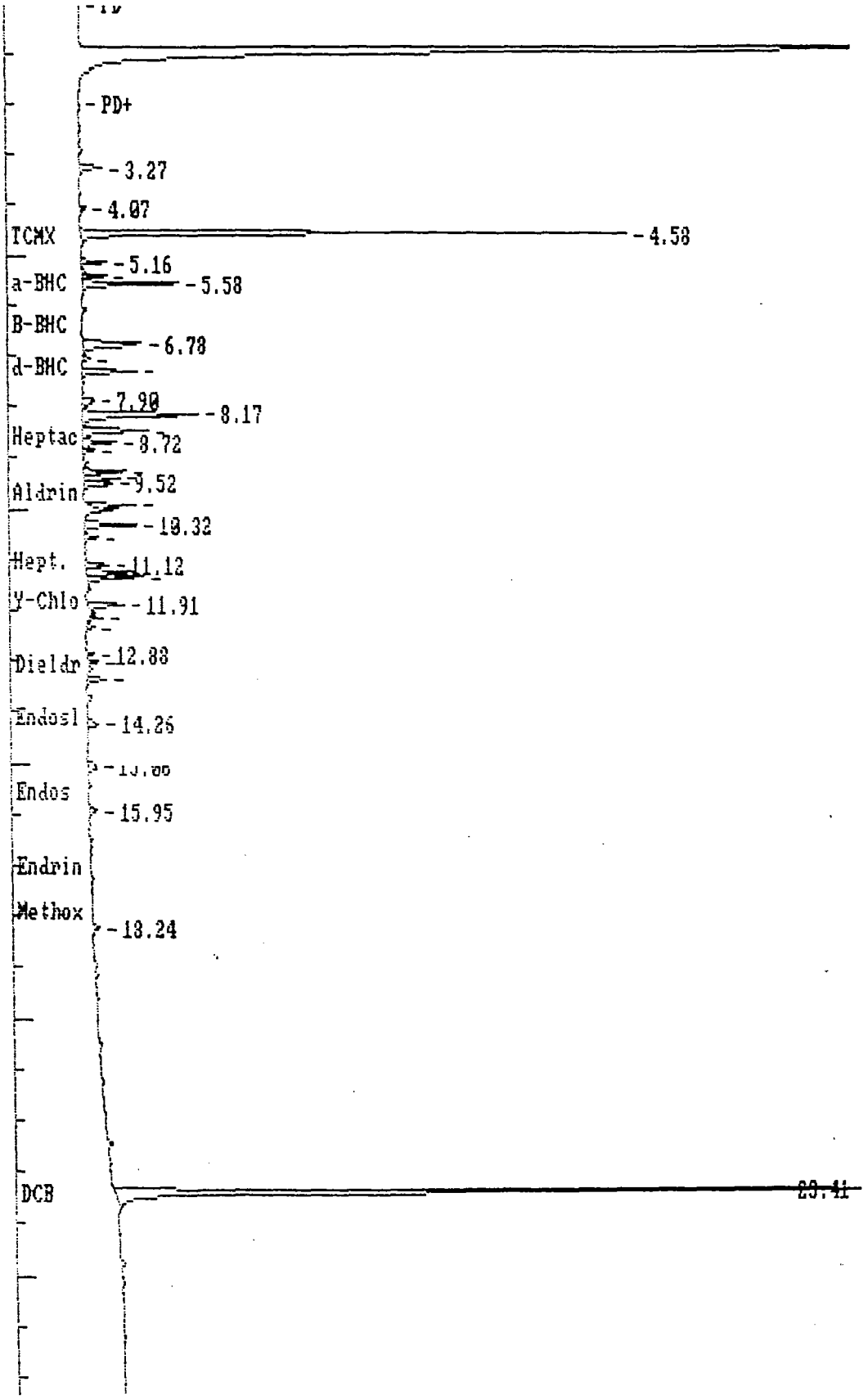
```
*****    EXTERNAL STANDARD TABLE    *****
******************** 12-06-1995 17:15:43 Version 5.1.5 ********************
* Sample Name: a1232                          Data File: D:DFD0110          *
* Date: 12-06-1995 14:45:47 Method: M:APES-H  11-17-1995 15:56:16  #  376 *
* Interface: 1   Cycle#:  10   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
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.273		0.0000	0.0000%	12903	2913	4.4	1			1.0000E-09
2	4.075		0.0000	0.0000%	3121	699	4.5	1			1.0000E-09
3	4.576	TCMX	99.0360	33.8669%	248428	70336	3.5	1	0	0	3.9855E-04
4	5.160		0.0000	0.0000%	14826	3371	4.4	2			1.0000E-09
5	5.427		0.0000	0.0000%	13720	3175	4.3	2			1.0000E-09
6	5.578	a-BHC	19.7104	6.7403%	54274	12341	4.4	2	0	.3021	3.6317E-04
7	6.780		0.0001	0.0000%	53759	7547	7.1	2			1.0000E-09
8	7.081		0.0000	0.0000%	4293	989	4.3	2			1.0000E-09
9	7.331	d-BHC	15.3629	5.2536%	30381	7007	4.3	1	0	1.682	5.0568E-04
10	7.899		0.0000	0.0000%	11295	1542	7.3	2			1.0000E-09
11	8.166		0.0001	0.0000%	87311	14843	5.9	2			1.0000E-09
12	8.484	Heptachlor	12.0704	4.1277%	39446	8360	4.7	2	0	-1.123	3.0600E-04
13	8.717		0.0000	0.0000%	21950	4301	5.1	2			1.0000E-09
14	8.868		0.0000	0.0000%	7487	1560	4.8	2			1.0000E-09
15	9.285		0.0000	0.0000%	24021	5410	4.4	2			1.0000E-09
16	9.419		0.0000	0.0000%	20009	4661	4.3	2			1.0000E-09
17	9.519	Aldrin	7.3592	2.5166%	20074	3662	5.5	2	0	-1.357	3.6650E-04
18	9.936		0.0000	0.0000%	19521	5379	3.6	1			1.0000E-09
19	10.321		0.0000	0.0000%	34030	6581	5.2	2			1.0000E-09
20	10.588		0.0000	0.0000%	7680	1698	4.5	2			1.0000E-09
21	11.122	Hept. epox.	4.7739	1.6325%	13295	2959	4.5	2	0	1.202	3.5909E-04
22	11.256		0.0000	0.0000%	27778	6179	4.5	2			1.0000E-09
23	11.373		0.0000	0.0000%	36151	7234	5.0	2			1.0000E-09
24	11.907	Y-Chlordane	6.9260	2.3684%	21238	4572	4.6	1	0	.9932	3.2611E-04
25	12.174	Endosulfan I	2.3419	0.8008%	6872	1784	3.9	1	0	.2825	3.4080E-04
26	12.341	a-Chlordane	1.4117	0.4827%	4363	1032	4.2	1	0	.4174	3.2358E-04
27	12.876		0.0000	0.0000%	4074	928	4.4	1			1.0000E-09
28	13.043	Dieldrin	1.7805	0.6089%	5622	1353	4.2	1	0	.1281	3.1669E-04
29	13.377		0.0000	0.0000%	12078	2515	4.8	1			1.0000E-09
30	14.262	Endoslf II	3.6466	1.2470%	9945	1416	7.0	1	0	1.435	3.6668E-04
31	15.063		0.0000	0.0000%	10160	1068	9.5	1			1.0000E-09
32	15.948	DDT	2.4505	0.8380%	5582	995	5.6	1	0	.8441	4.3899E-04
33	18.236		0.0000	0.0000%	4107	846	4.9	1			1.0000E-09
34	23.413	DCB	115.5569	39.5164%	513531	107582	4.8	1	0	0	2.2502E-04

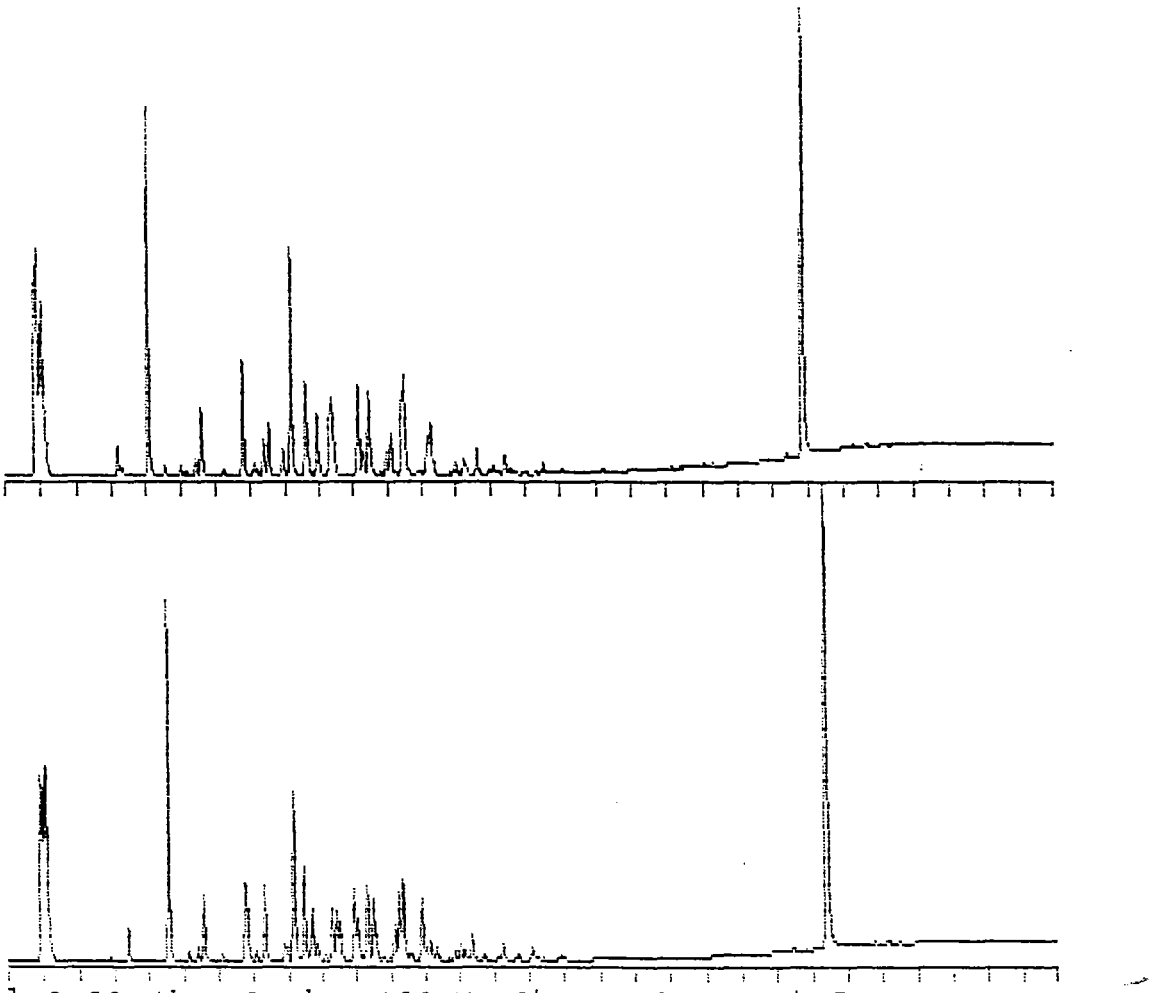
TOTAL AMOUNT = 292.4273

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DFD0110.ATB
Data File = D:DFD0110.PTS Printed on 12-06-1995 at 17:15:58
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
a1242 1ppm Processed: 12-06-1995 17:19:30, segment 11, cycle 11
RAW DATA SAVED IN FILE D:DED0111.PTS Second Channel Stored in D:EED0111.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 17:20:16 Version 5.1.5 **********

* Sample Name: a1242 1ppm Data File: D:DED0111 *
* Date: 12-06-1995 15:19:56 Method: 1PPM 12-06-1995 16:42:49 # 379 *
* 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

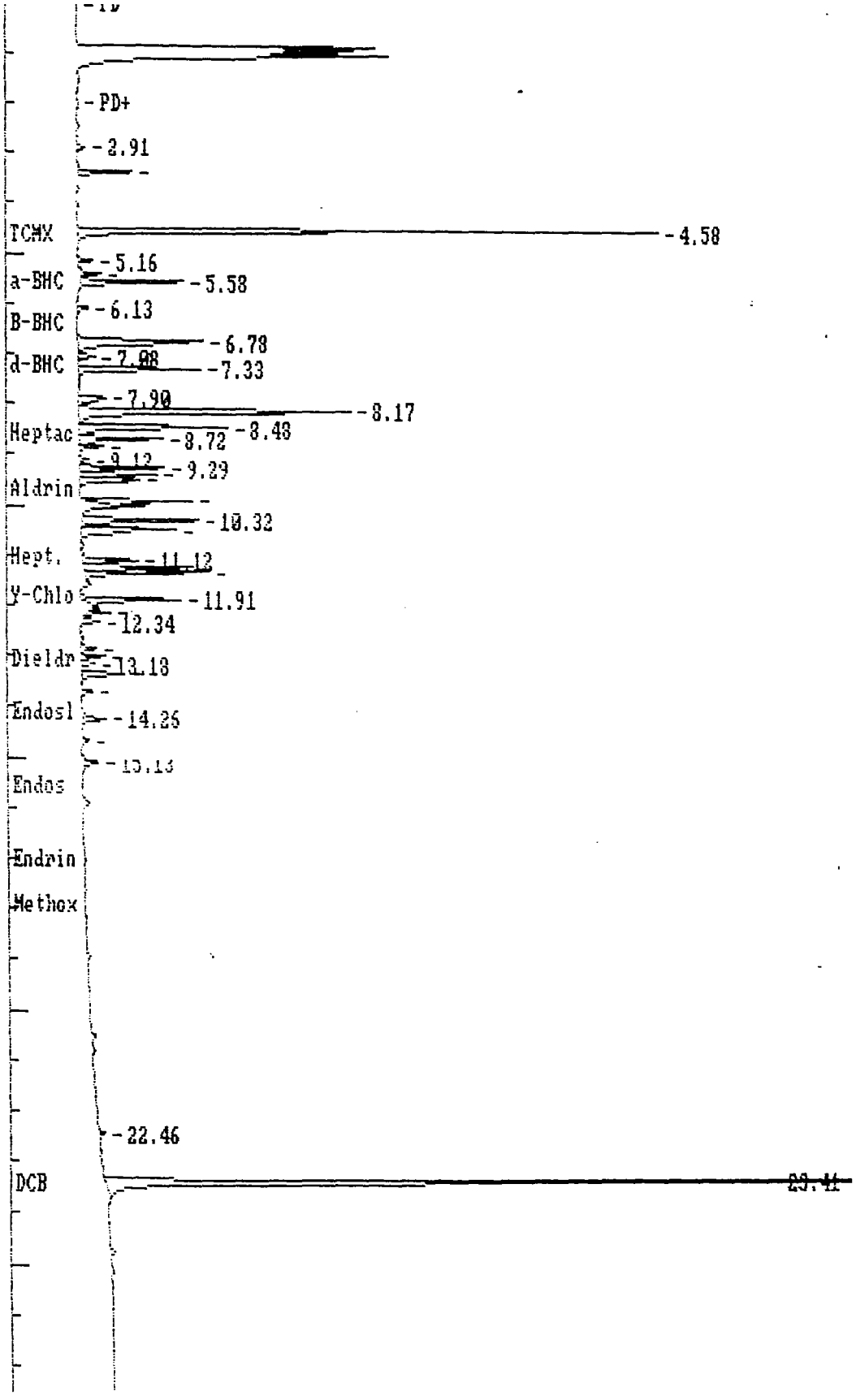
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

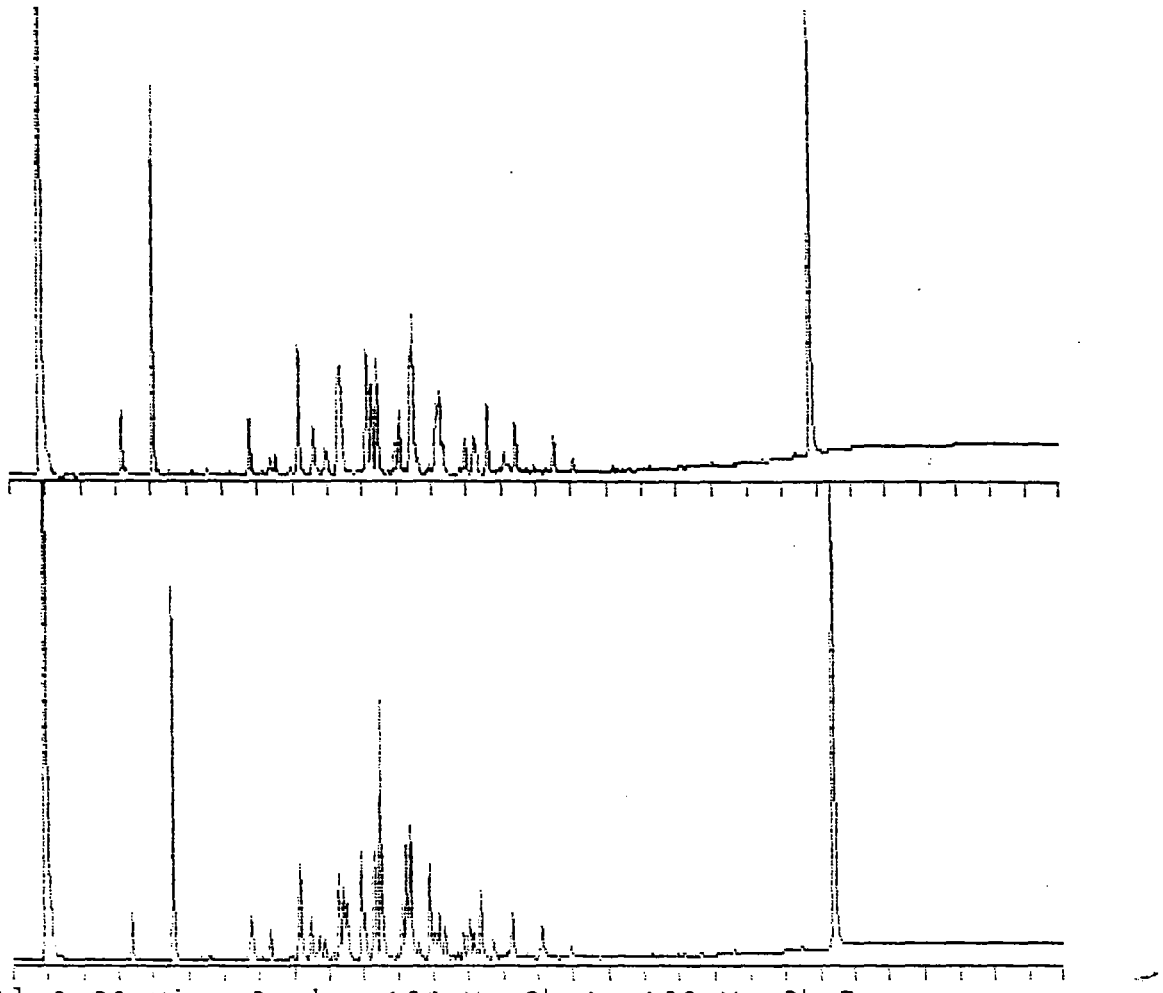
4	5.160		0.0000	0.0000%	9830	2032	4.3 1			1.0000E-09
5	5.427		0.0000	0.0000%	9201	2530	3.6 1			1.0000E-09
6	5.578	a-BHC	20.3894	5.4371%	56143	13200	4.3 1	0	.3021	3.6317E-04
7	6.129		0.0000	0.0000%	5792	1353	4.3 1			1.0000E-09
8	6.780		0.0001	0.0000%	112445	16083	7.0 2			1.0000E-09
9	7.081		0.0000	0.0000%	9609	2212	4.3 2			1.0000E-09
10	7.331	d-BHC	33.4979	8.9327%	66243	15634	4.2 1	0	1.682	5.0563E-04
11	7.899		0.0000	0.0000%	25611	3604	7.1 2			1.0000E-09
12	8.166		0.0002	0.0001%	194792	35151	5.5 2			1.0000E-09
13	8.484	Heptachlor	26.8464	7.1590%	87733	19225	4.6 2	0	-1.123	3.0600E-04
14	8.717		0.0001	0.0000%	52575	10783	4.9 2			1.0000E-09
15	8.868		0.0000	0.0000%	15800	3285	4.8 2			1.0000E-09
16	9.118		0.0000	0.0000%	5244	1242	4.2 2			1.0000E-09
17	9.285		0.0000	0.0000%	47810	10933	4.4 2			1.0000E-09
18	9.419		0.0000	0.0000%	41849	9964	4.2 2			1.0000E-09
19	9.519	Aldrin	15.3537	4.0943%	41881	7862	5.3 2	0	-1.357	3.6660E-04
20	9.936		0.0000	0.0000%	41266	11757	3.5 1			1.0000E-09
21	10.321		0.0001	0.0000%	73913	14989	4.9 2			1.0000E-09
22	10.521		0.0001	0.0000%	66840	12276	5.4 2			1.0000E-09
23	11.122	Hept. epox.	11.1861	2.9829%	31151	7201	4.3 2	0	1.202	3.5909E-04
24	11.256		0.0001	0.0000%	63166	14190	4.5 2			1.0000E-09
25	11.356		0.0001	0.0000%	78245	16136	4.8 2			1.0000E-09
26	11.907	Y-Chlordane	17.2022	4.5872%	52750	12161	4.3 1	0	.9932	3.2611E-04
27	12.174	Endosulfan I	4.0324	1.0753%	11832	3148	3.8 1	0	.2825	3.4080E-04
28	12.341	a-Chlordane	3.1158	0.8309%	9629	2300	4.2 1	0	.4174	3.2358E-04
29	12.876		0.0000	0.0000%	9777	2072	4.7 2			1.0000E-09
30	13.043	Dieldrin	4.5916	1.2244%	14499	3158	4.6 2	0	.1281	3.1669E-04
31	13.176	4,4-DDE	3.0340	0.8091%	8633	1806	4.8 2	0	0	3.5145E-04
32	13.377		0.0000	0.0000%	25912	5436	4.8 2			1.0000E-09
33	13.727	Endrin	2.2289	0.5944%	6663	1424	4.7 1	0	.1196	3.3450E-04
34	14.262	Endoslf II	6.0491	1.6131%	16497	3017	5.5 1	0	1.435	3.6668E-04
35	14.696	Endrin ald	1.5546	0.4146%	3529	812	4.3 1	0	-.2308	4.4051E-04
36	15.130		0.0000	0.0000%	12089	1980	6.1 1			1.0000E-09
37	22.461		0.0000	0.0000%	3675	761	4.8 1			1.0000E-09
38	23.413	OCB	121.8747	32.4996%	541607	115004	4.7 1	0	0	2.2502E-04

TOTAL AMOUNT = 375.0040

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0111.ATB
Data File = D:DED0111.PTS Printed on 12-06-1995 at 17:20:32
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
a1248 1ppm Processed: 12-06-1995 17:23:58, segment 12, cycle 12
RAW DATA SAVED IN FILE D:DED0112.PTS Second Channel Stored in D:EED0112.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 17:24:41 Version 5.1.5 **********

* Sample Name: a1248 1ppm Data File: D:DED0112 *
* Date: 12-06-1995 15:54:04 Method: 1PPM 12-06-1995 16:42:49 # 379 *
* 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

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

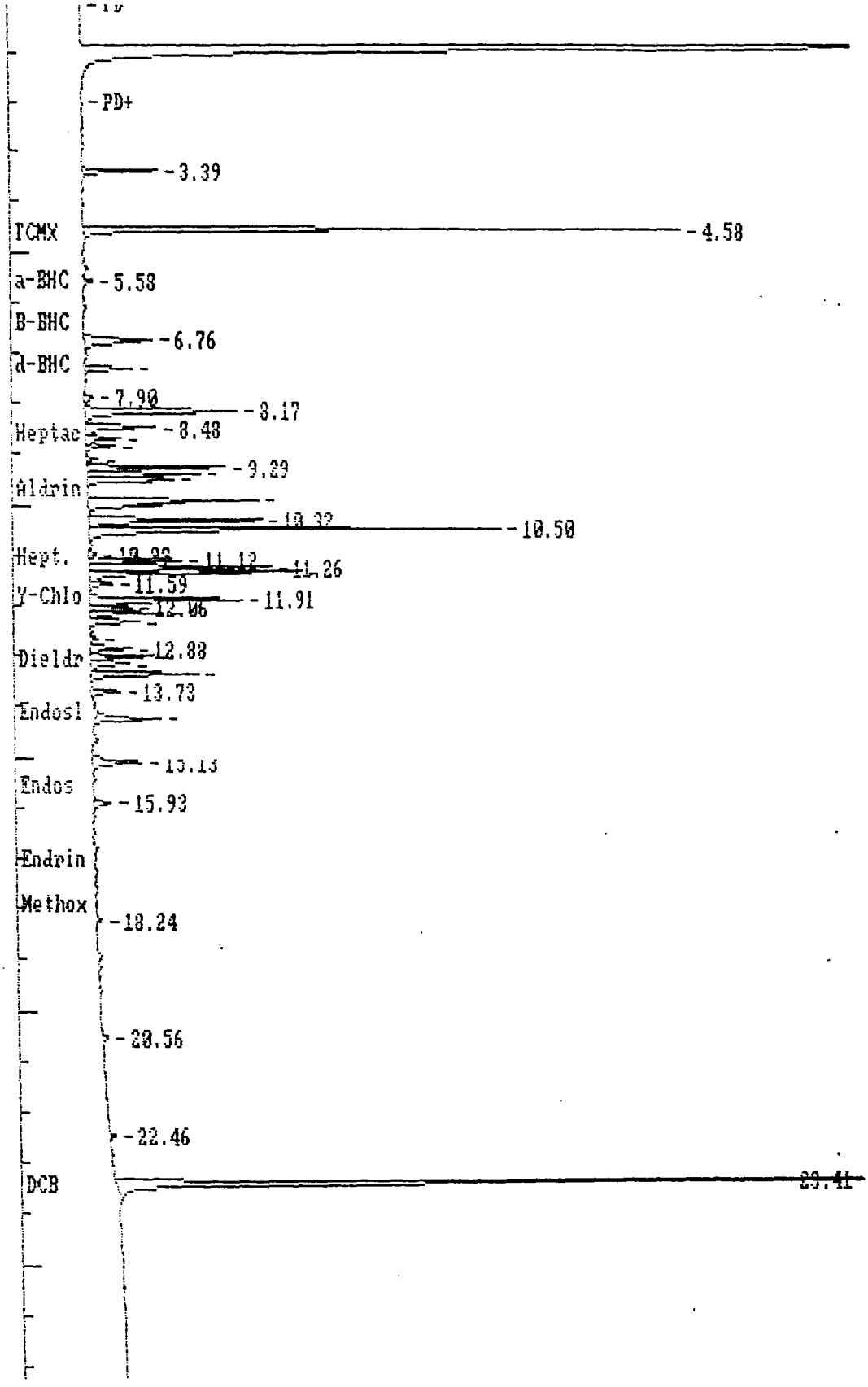
4	6.763		0.0001	0.0000%	5711	3659	6.6	1			1.0000E-09
5	7.331	d-BHC	12.9855	3.4381%	25679	6012	4.3	1	0	1.682	5.0563E-04
6	7.899		0.0000	0.0000%	6484	1072	6.0	2			1.0000E-09
7	8.166		0.0001	0.0000%	111074	19312	5.8	2			1.0000E-09
8	8.484	Heptachlor	13.3973	3.5472%	43782	9009	4.9	2	0	-1.123	3.0600E-04
9	8.717		0.0000	0.0000%	25316	4472	5.7	2			1.0000E-09
10	8.868		0.0000	0.0000%	17121	3838	4.5	2			1.0000E-09
11	9.118		0.0000	0.0000%	6380	1506	4.2	2			1.0000E-09
12	9.285		0.0001	0.0000%	71780	17661	4.1	2			1.0000E-09
13	9.419		0.0001	0.0000%	62779	14452	4.3	2			1.0000E-09
14	9.519	Aldrin	21.0503	5.5734%	57420	11077	5.2	2	0	-1.357	3.6660E-04
15	9.936		0.0001	0.0000%	133771	21778	6.1	2			1.0000E-09
16	10.321		0.0001	0.0000%	109006	22001	5.0	2			1.0000E-09
17	10.504		0.0002	0.0001%	211612	53383	4.0	2			1.0000E-09
18	10.989	Hept. epox.	1.5332	0.4059%	4270	857	5.0	2	0	0	3.5909E-04
19	11.122		0.0001	0.0000%	52120	11794	4.4	2			1.0000E-09
20	11.256		0.0001	0.0000%	105277	23221	4.5	2			1.0000E-09
21	11.356		0.0001	0.0000%	134265	27320	4.9	2			1.0000E-09
22	11.590		0.0000	0.0000%	14892	2908	5.1	2			1.0000E-09
23	11.907	Y-Chlordane	30.1555	7.9841%	92471	19399	4.8	2	523910	.9932	3.2611E-04
24	12.057		0.0000	0.0000%	23931	5408	4.4	2			1.0000E-09
25	12.174	Endosulfan I	14.9045	3.9462%	43733	9300	4.7	2	0	.2825	3.4080E-04
26	12.341	a-Chlordane	9.2805	2.4571%	28681	6412	4.5	2	0	.4174	3.2358E-04
27	12.692		0.0000	0.0000%	3829	968	4.0	1			1.0000E-09
28	12.876		0.0000	0.0000%	24711	5301	4.7	2			1.0000E-09
29	13.043	Dieldrin	11.5995	3.0712%	36628	8094	4.5	2	0	.1281	3.1669E-04
30	13.176	4,4-DDE	8.4976	2.2499%	24179	5006	4.8	2	0	0	3.5145E-04
31	13.377		0.0001	0.0000%	64094	13675	4.7	2			1.0000E-09
32	13.727	Endrin	6.0620	1.6050%	18122	3782	4.8	2	0	.1196	3.3450E-04
33	14.262	Endosif II	16.1518	4.2764%	44049	8408	5.2	1	0	1.435	3.6668E-04
34	15.130		0.0000	0.0000%	41169	6297	6.5	1			1.0000E-09
35	15.932	DDT	6.1690	1.6333%	14053	2304	6.1	1	0	.7385	4.3899E-04
36	18.236		0.0000	0.0000%	3438	711	4.8	1			1.0000E-09
37	20.558		0.0000	0.0000%	3177	669	4.8	1			1.0000E-09
38	22.461		0.0000	0.0000%	3645	764	4.8	1			1.0000E-09
39	23.413	DCB	118.6231	31.4073%	527157	111145	4.7	1	0	0	2.2502E-04

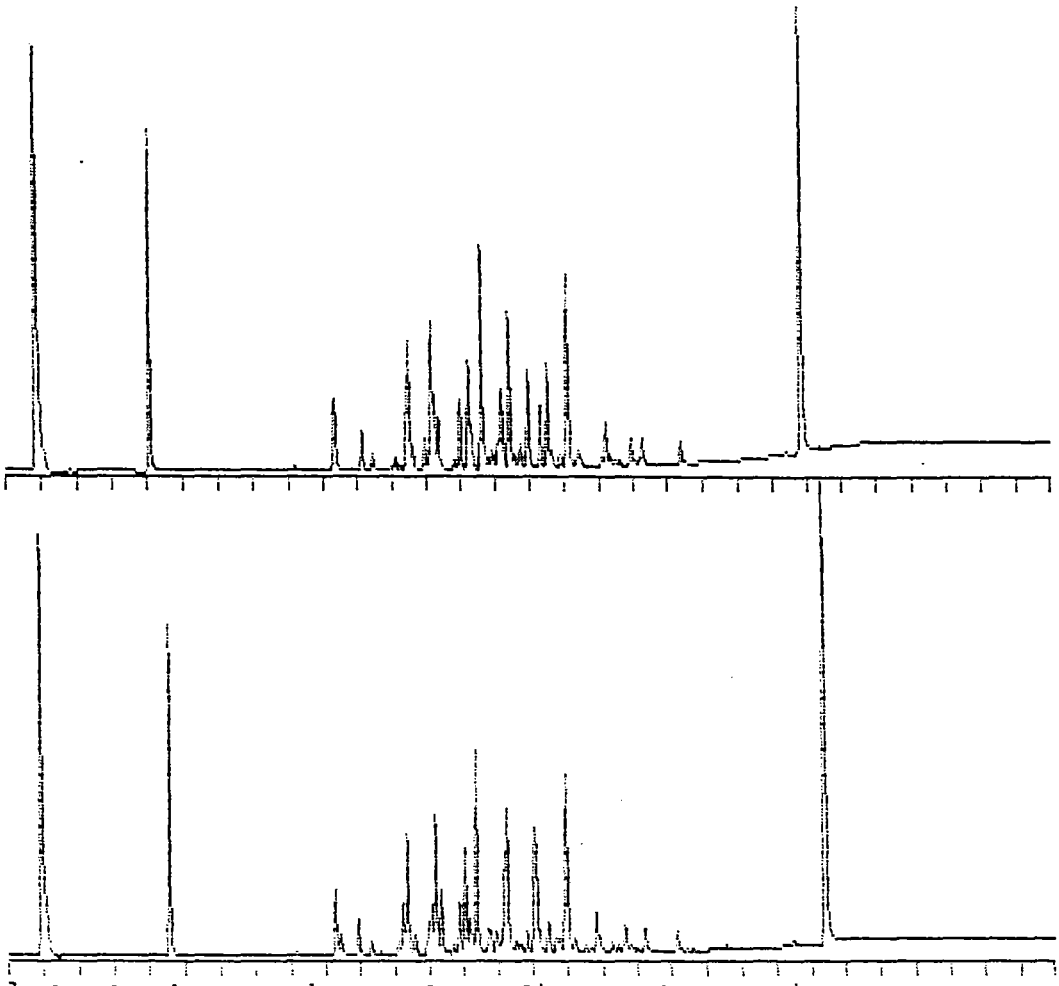
353

TOTAL AMOUNT = 377.6923

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DED0112.ATB
Data File = D:DED0112.PTS Printed on 12-06-1995 at 17:24:56
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
a1254 1ppm Processed: 12-06-1995 17:28:35, segment 13, cycle 13
RAW DATA SAVED IN FILE D:DED0113.PTS Second Channel Stored in D:EED0113.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 17:29:06 Version 5.1.5 **********

* Sample Name: a1254 1ppm Data File: D:DED0113 *
* Date: 12-06-1995 16:28:05 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* 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

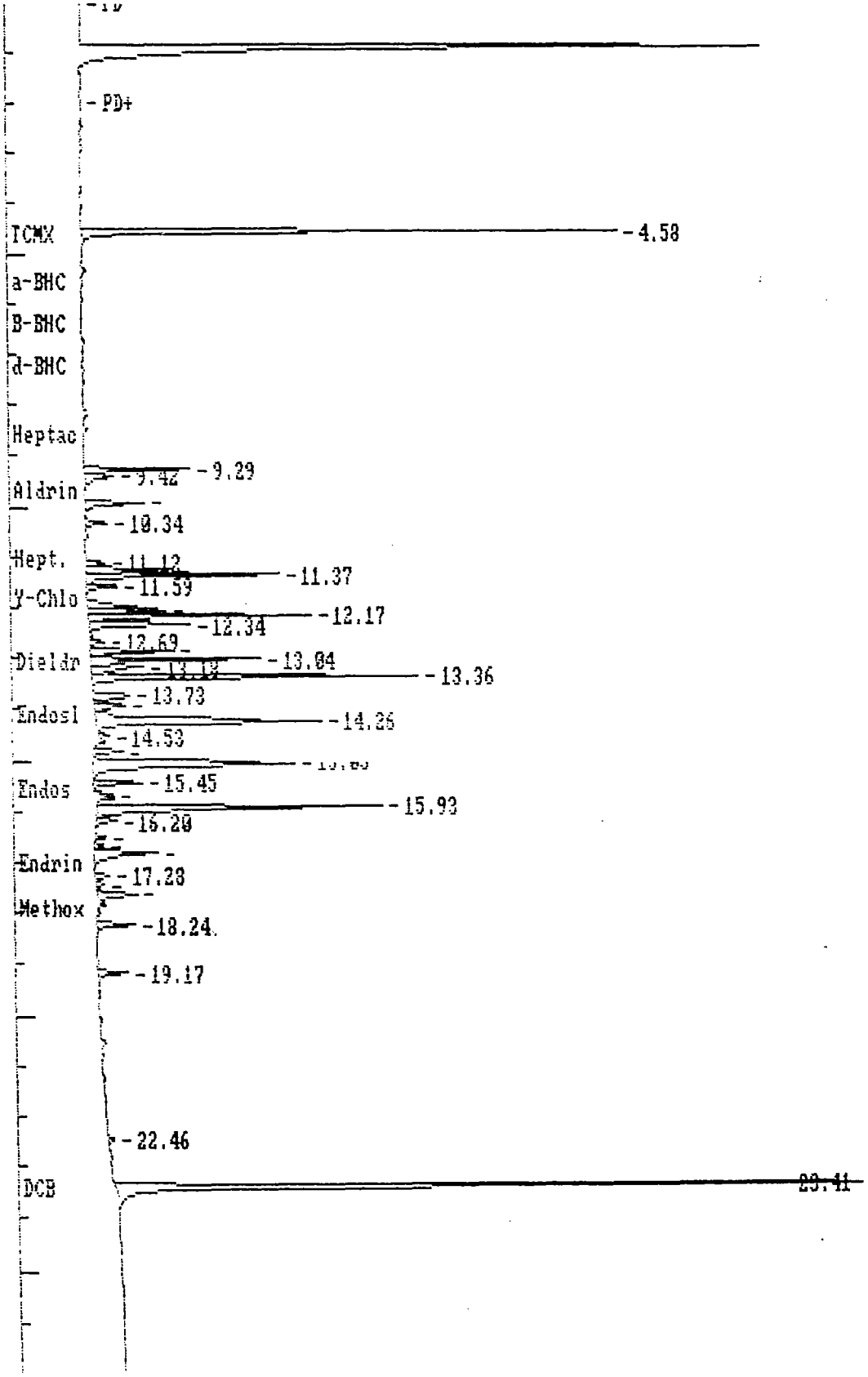
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.574	TCMX								

4	9.936		0.0000	0.0000%	36750	7752	4.7	1			1.0000E-09
5	10.337		0.0000	0.0000%	13469	2842	4.7	1			1.0000E-09
6	11.122	Hept. epox.	3.8834	0.7926%	10815	2489	4.3	2	0	1.202	3.5909E-04
7	11.256		0.0001	0.0000%	50389	10992	4.6	2			1.0000E-09
8	11.373		0.0001	0.0000%	111396	24719	4.5	2			1.0000E-09
9	11.590	Y-Chlordane	6.2534	1.2764%	19176	3983	4.8	2	0	-1.698	3.2611E-04
10	11.991		0.0000	0.0000%	31476	6328	5.0	2			1.0000E-09
11	12.057		0.0000	0.0000%	43579	10013	4.4	2			1.0000E-09
12	12.174	Endosulfan I	43.7061	8.9207%	128244	28613	4.5	2	0	.2825	3.4080E-04
13	12.341	a-Chlordane	18.6060	3.7976%	57501	12882	4.5	2	0	.4174	3.2358E-04
14	12.692		0.0000	0.0000%	7545	1869	4.0	2			1.0000E-09
15	12.859		0.0000	0.0000%	48675	10654	4.6	2			1.0000E-09
16	13.043	Dieldrin	30.9171	6.3104%	97626	21805	4.5	2	0	.1281	3.1669E-04
17	13.176	4,4-DDE	14.3295	2.9248%	40772	6837	6.0	2	0	0	3.5145E-04
18	13.360		0.0002	0.0000%	187331	41982	4.5	2			1.0000E-09
19	13.727	Endrin	11.3872	2.3242%	34042	4768	7.1	2	0	.1196	3.3450E-04
20	13.945	Endosif II	8.0793	1.6490%	22034	4106	5.4	2	0	-.8214	3.6668E-04
21	14.262		0.0002	0.0000%	206475	29007	7.1	2			1.0000E-09
22	14.529	4'4-DDD	2.6895	0.5490%	4857	1328	3.7	1	0	-.3429	5.5372E-04
23	14.846	Endrin ald	7.2294	1.4756%	16411	3815	4.3	1	0	.7895	4.4051E-04
24	15.047		0.0002	0.0000%	205177	25919	7.9	2			1.0000E-09
25	15.447	Endos sulf	12.5394	2.5594%	29083	6248	4.7	2	0	-.5312	4.3115E-04
26	15.681		0.0000	0.0000%	5498	1265	4.3	1			1.0000E-09
27	15.932	DDT	85.0419	17.3577%	193720	36818	5.3	2	0	.7385	4.3899E-04
28	16.199		0.0000	0.0000%	13724	2678	5.1	2			1.0000E-09
29	16.516		0.0000	0.0000%	5914	1425	4.2	1			1.0000E-09
30	16.683		0.0000	0.0000%	5481	1194	4.6	2			1.0000E-09
31	16.834	Endrin ket.	16.4478	3.3571%	51137	8145	6.3	2	0	-.9788	3.2132E-04
32	17.284		0.0000	0.0000%	8544	1677	4.6	2			1.0000E-09
33	17.451		0.0000	0.0000%	4551	1121	4.1	2			1.0000E-09
34	17.652	Methoxychlor	16.2286	3.3124%	26440	4970	5.3	1	0	-1.214	6.1380E-04
35	18.236		0.0000	0.0000%	25319	4942	5.1	1			1.0000E-09
36	19.172		0.0000	0.0000%	20477	3844	5.3	1			1.0000E-09
37	22.461		0.0000	0.0000%	3821	787	4.9	1			1.0000E-09
38	23.413	OCB	116.2670	23.7350%	516775	108827	4.7	1	0	0	2.2502E-04

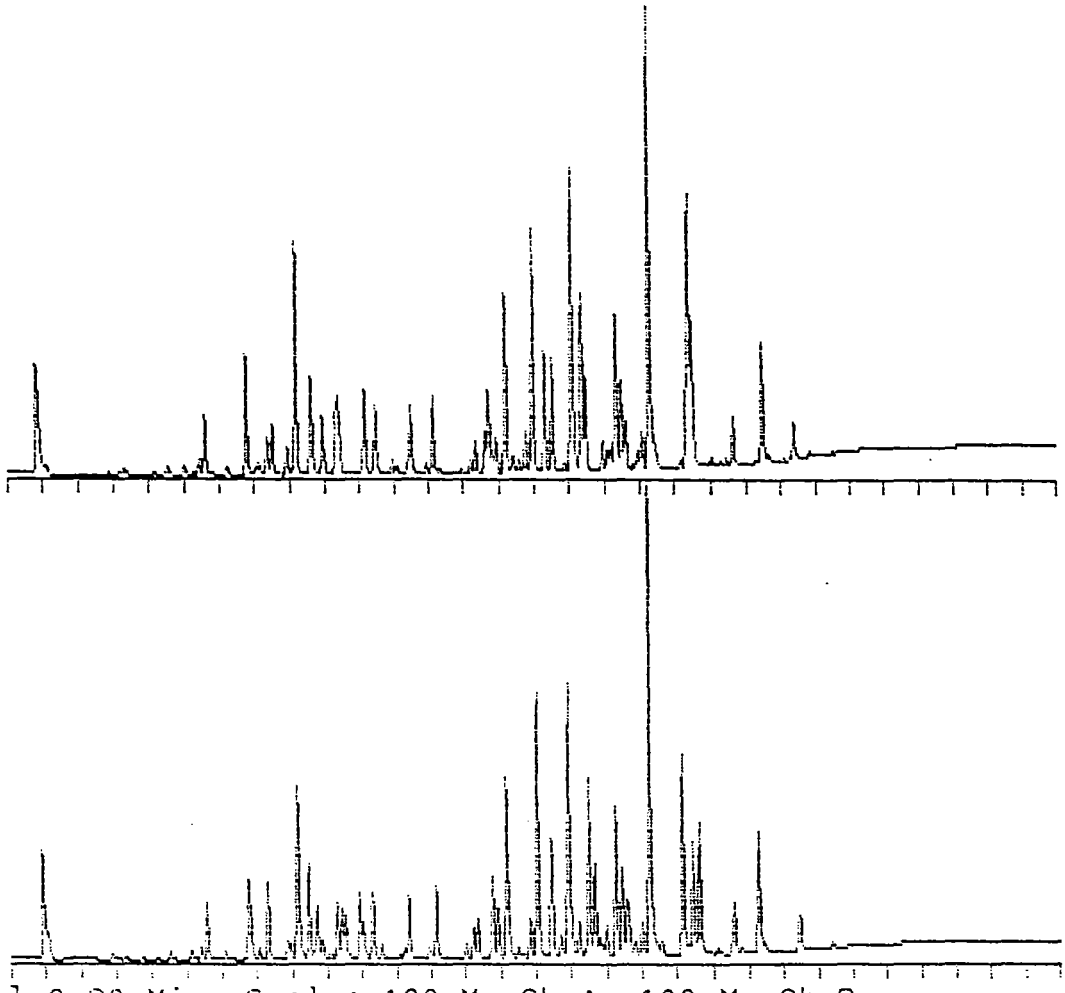
TOTAL AMOUNT = 489.9382

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0113.ATB
Data File = D:DED0113.PTS Printed on 12-06-1995 at 17:29:20
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
Processed: 12-06-1995 22:39:00, segment 23, cycle 23
RAW DATA SAVED IN FILE D:DED0123.PTS Second Channel Stored in D:EED0123.PTS

***** EXTERNAL STANDARD TABLE *****

********** 12-06-1995 22:39:30 Version 5.1.5 **********

* Sample Name: PCB 1660 1PPM Data File: D:DED0123 *
* Date: 12-06-1995 22:08:39 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 23 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

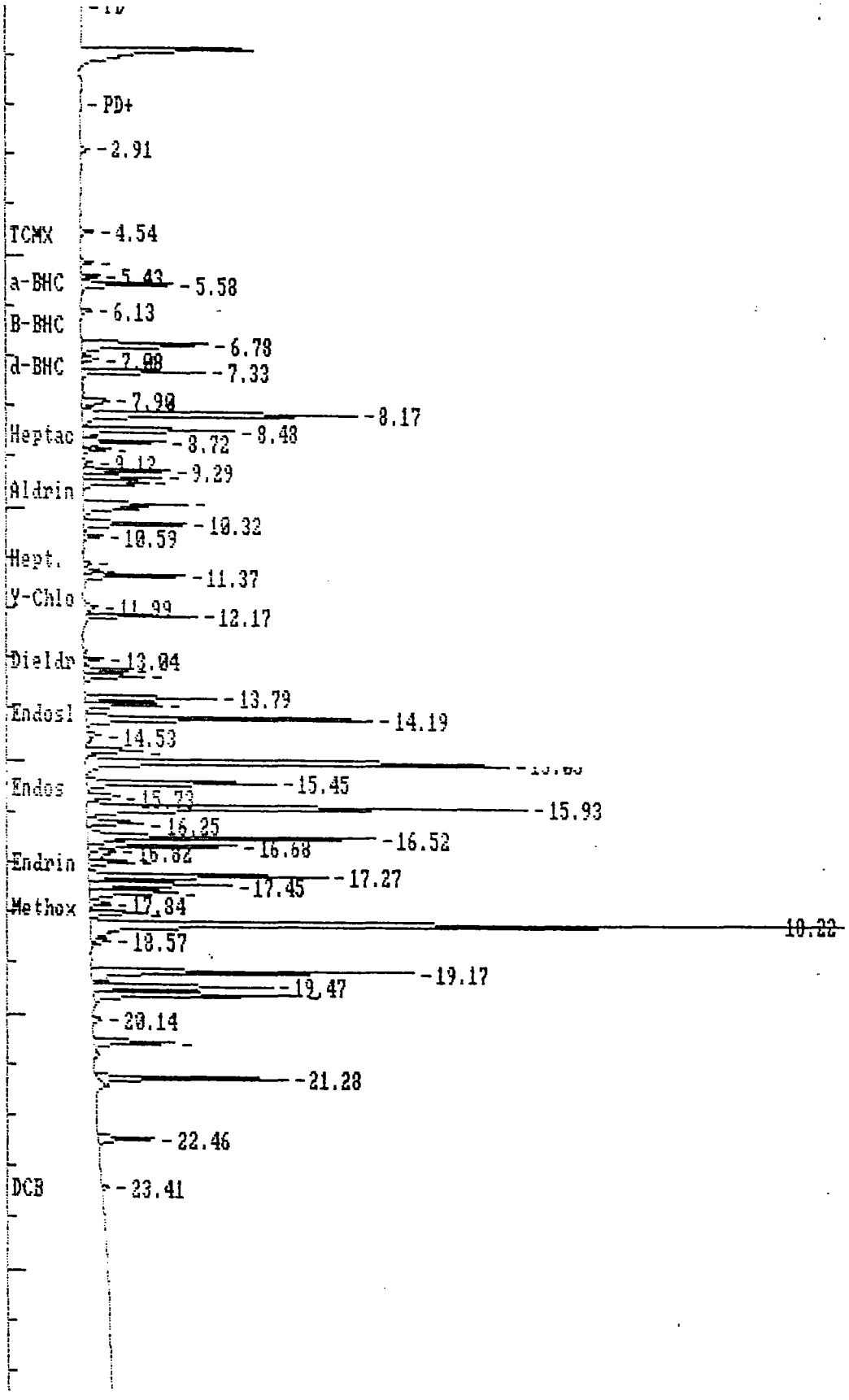
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

4	5.427		0.0000	0.0000%	10196	2402	4.2	2			1.0000E-09
5	5.579	a-BHC	18.8907	6.6583%	52017	11708	4.4	2	0	.3021	3.6317E-04
6	6.129		0.0000	0.0000%	6123	1417	4.3	1			1.0000E-09
7	6.780		0.0001	0.0000%	110345	16266	6.8	2		350	1.0000E-09
8	7.081		0.0000	0.0000%	10117	2300	4.4	2			1.0000E-09
9	7.331	d-BHC	33.9223	11.9565%	67082	15820	4.2	1	0	1.682	5.0568E-04
10	7.899		0.0000	0.0000%	26159	3672	7.1	2			1.0000E-09
11	8.166		0.0002	0.0001%	199098	35543	5.6	2			1.0000E-09
12	8.484	Heptachlor	27.2301	9.5977%	88987	19566	4.5	2	0	-1.123	3.0600E-04
13	8.717		0.0001	0.0000%	51631	10697	4.8	2			1.0000E-09
14	8.868		0.0000	0.0000%	17503	3681	4.8	2			1.0000E-09
15	9.118		0.0000	0.0000%	5601	1300	4.3	2			1.0000E-09
16	9.285		0.0000	0.0000%	46445	11231	4.1	2			1.0000E-09
17	9.419		0.0000	0.0000%	45306	10205	4.4	2			1.0000E-09
18	9.519	Aldrin	16.9392	5.9705%	46206	8582	5.4	2	0	-1.357	3.6660E-04
19	9.936		0.0001	0.0000%	94285	13452	7.0	2			1.0000E-09
20	10.321		0.0001	0.0000%	68197	13330	5.1	2			1.0000E-09
21	10.588		0.0000	0.0000%	11693	2602	4.5	2			1.0000E-09
22	11.122	Hept. epox.	1.8086	0.6375%	5037	1135	4.4	2	0	1.202	3.5909E-04
23	11.256		0.0000	0.0000%	9280	2009	4.6	2			1.0000E-09
24	11.373		0.0001	0.0000%	56510	13012	4.3	2			1.0000E-09
25	11.991	Y-Chlordane	2.9896	1.0537%	9168	1587	5.8	2	0	1.701	3.2611E-04
26	12.174	Endosulfan I	20.8014	7.3318%	61036	14312	4.3	2	0	.2825	3.4080E-04
27	13.043	Dieldrin	3.7604	1.3254%	11874	2642	4.5	2	0	.1281	3.1669E-04
28	13.243	4,4-DDE	9.4673	3.3369%	26937	6084	4.4	2	0	.4787	3.5145E-04
29	13.377		0.0000	0.0000%	36620	7978	4.6	2			1.0000E-09
30	13.794	Endrin	24.2741	8.5558%	72568	17040	4.3	2	0	.6068	3.3450E-04
31	13.945	Endoslf II	17.1103	6.0308%	46663	10144	4.6	2	0	-.8214	3.6668E-04
32	14.195		0.0002	0.0001%	172550	37155	4.6	2			1.0000E-09
33	14.529	4'4-DDD	3.9986	1.4094%	7221	1820	4.0	1	0	-.3429	5.5372E-04
34	14.846	Endrin ald	15.2971	5.3917%	34726	7670	4.5	2	0	.7895	4.4051E-04
35	15.047		0.0003	0.0001%	282105	54623	5.2	2			1.0000E-09
36	15.447	Endos sulf	53.5988	18.8918%	124315	24494	5.1	2	0	-.5312	4.3115E-04
37	15.731	DDT	10.8090	3.8098%	24622	4275	5.8	2	0	-.5286	4.3899E-04
38	15.932		0.0003	0.0001%	291265	56867	5.1	2			1.0000E-09
39	16.249		0.0000	0.0000%	39831	7397	5.4	2			1.0000E-09
40	16.516		0.0002	0.0001%	168754	37220	4.5	2			1.0000E-09
41	16.683		0.0001	0.0000%	87522	19201	4.6	3			1.0000E-09
42	16.817		0.0000	0.0000%	23038	3260	7.1	4			1.0000E-09
43	17.017	Endrin ket.	8.9955	3.1706%	27995	6049	4.6	2	0	.1017	3.2132E-04
44	17.268		0.0001	0.0000%	135983	30847	4.4	2	850449		1.0000E-09
45	17.451		0.0001	0.0000%	81679	18331	4.5	2			1.0000E-09
46	17.602		0.0001	0.0000%	74293	11449	6.5	2			1.0000E-09
47	17.836	Methoxychlor	9.9415	3.5040%	16197	2728	5.9	2	0	-.1869	6.1380E-04
48	18.019		0.0000	0.0000%	34787	7035	4.9	2			1.0000E-09
49	18.220		0.0005	0.0002%	479515	97339	4.9	3			1.0000E-09
50	18.570		0.0000	0.0000%	10875	2323	4.7	4			1.0000E-09
51	19.172		0.0002	0.0001%	214273	41608	5.1	2			1.0000E-09
52	19.472		0.0001	0.0000%	103528	23090	4.5	2			1.0000E-09
53	19.639		0.0001	0.0000%	129683	26801	4.8	2			1.0000E-09
54	20.140		0.0000	0.0000%	6100	1202	5.1	1			1.0000E-09
55	20.591		0.0001	0.0000%	53393	10369	5.1	1			1.0000E-09
56	21.276		0.0001	0.0000%	108487	24182	4.5	1			1.0000E-09
57	22.461		0.0000	0.0000%	35644	7231	4.9	1			1.0000E-09
58	23.413	DCB	1.0026	0.3534%	4455	972	4.6	1	0	0	2.2502E-04

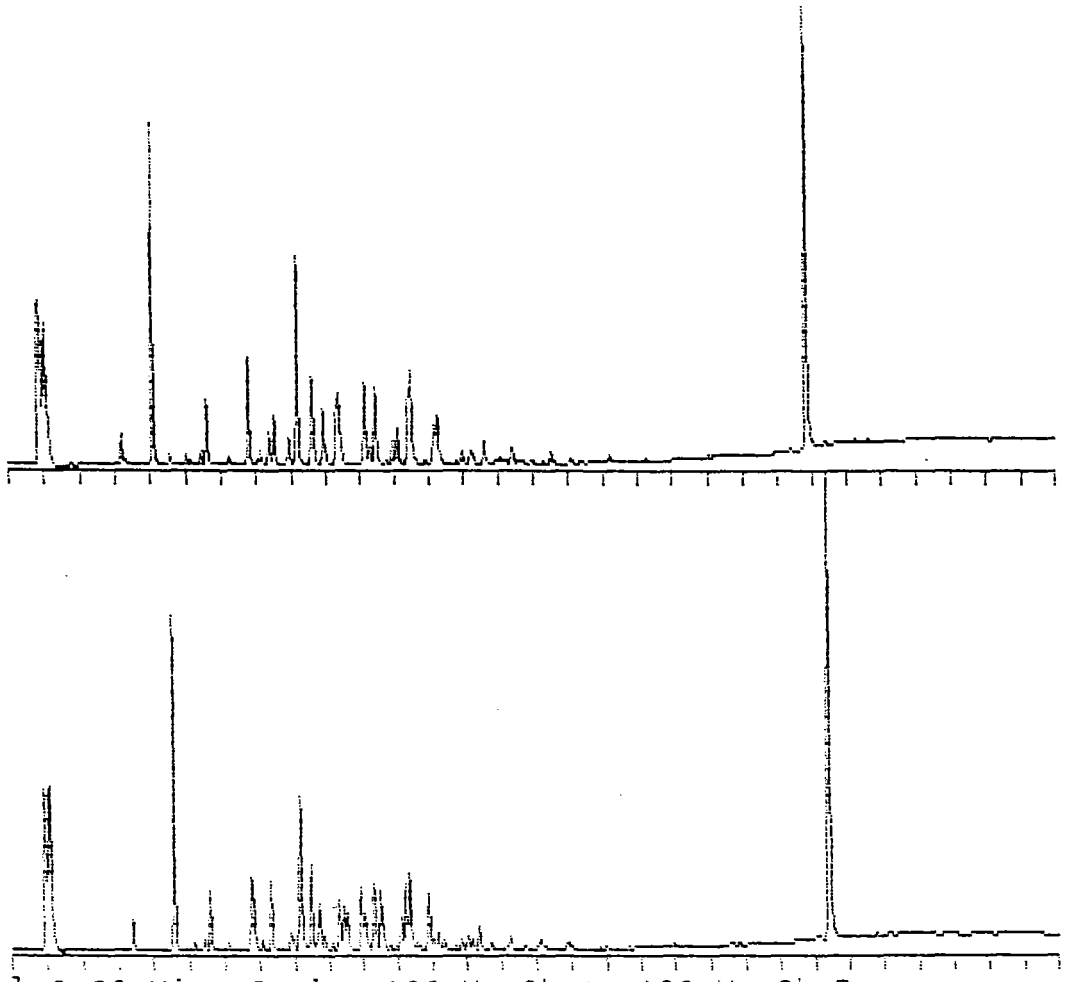
TOTAL AMOUNT = 283.7150

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DED0123.ATB
Data File = D:DED0123.PTS Printed on 12-06-1995 at 22:39:47
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



361



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
Processed: 12-07-1995 04:53:23, segment 5, cycle 34
RAW DATA SAVED IN FILE D:DED0134.PTS Second Channel Stored in D:EED0134.PTS

EXTERNAL STANDARD TABLE

12-07-1995 04:53:53 Version 5.1.5

* Sample Name: PCB 1242 1ppm — Data File: D:DED0134
* Date: 12-07-1995 04:22:58 Method: M:APES-H 11-17-1995 15:56:16 # 376
* Interface: 1 Cycle#: 34 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

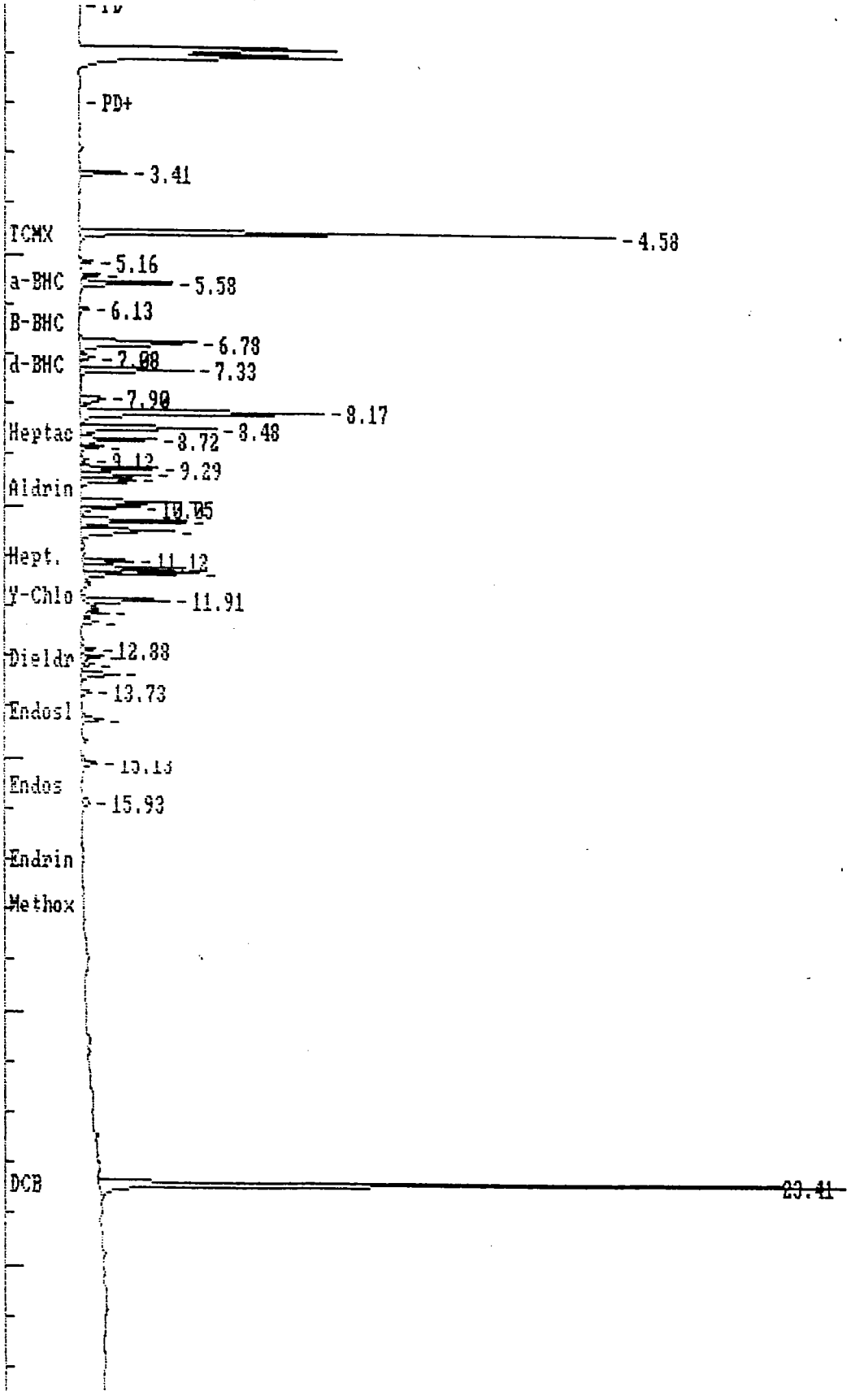
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

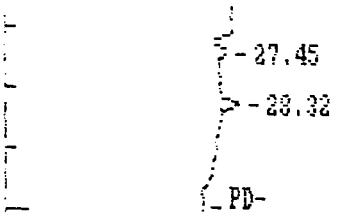
4	5.427		0.0000	0.0000%	8269	2294	3.6	1			1.0000E-09
5	5.578	a-BHC	18.3992	5.5257%	50663	11761	4.3	1	0	.3021	3.5217E-04
6	6.129		0.0000	0.0000%	5238	1260	4.2	1			1.0000E-09
7	6.780		0.0001	0.0000%	101811	15070	6.8	2			1.0000E-09
8	7.081		0.0000	0.0000%	8744	2021	4.3	2			1.0000E-09
9	7.331	d-BHC	30.1695	9.0605%	59661	14549	4.1	1	0	1.682	5.0568E-04
10	7.899		0.0000	0.0000%	23187	3284	7.1	2			1.0000E-09
11	8.166		0.0002	0.0001%	176584	31647	5.6	2			1.0000E-09
12	8.484	Heptachlor	24.1219	7.2443%	78830	17619	4.5	2	0	-1.123	3.0600E-04
13	8.717		0.0000	0.0000%	47486	9745	4.9	2			1.0000E-09
14	8.868		0.0000	0.0000%	13266	2985	4.4	2			1.0000E-09
15	9.118		0.0000	0.0000%	4757	1134	4.2	2			1.0000E-09
16	9.285		0.0000	0.0000%	43105	9893	4.4	2			1.0000E-09
17	9.419		0.0000	0.0000%	37724	9032	4.2	2			1.0000E-09
18	9.519	Aldrin	14.0438	4.2176%	38308	7086	5.4	2	0	-1.357	3.6660E-04
19	9.936		0.0001	0.0000%	56185	12961	4.3	2			1.0000E-09
20	10.053		0.0000	0.0000%	38461	7508	5.1	2			1.0000E-09
21	10.321		0.0001	0.0000%	68905	13574	5.1	2			1.0000E-09
22	10.521		0.0001	0.0000%	64564	12017	5.4	2			1.0000E-09
23	11.122	Hept. epox.	10.0515	3.0187%	27992	6464	4.3	2	0	1.202	3.5909E-04
24	11.256		0.0001	0.0000%	56736	13051	4.3	2			1.0000E-09
25	11.373		0.0001	0.0000%	70797	14660	4.8	2			1.0000E-09
26	11.907	Y-Chlordane	15.3423	4.6076%	47047	10742	4.4	1	0	.9932	3.2611E-04
27	12.174	Endosulfan I	3.6580	1.0986%	10733	2842	3.8	1	0	.2825	3.4080E-04
28	12.341	a-Chlordane	2.8247	0.8483%	8729	2096	4.2	1	0	.4174	3.2358E-04
29	12.876		0.0000	0.0000%	8817	1899	4.6	2			1.0000E-09
30	13.043	Dieldrin	4.2794	1.2852%	13513	2842	4.8	2	0	.1291	3.1669E-04
31	13.176	4,4-DDE	2.5945	0.7792%	7382	1643	4.5	2	0	0	3.5145E-04
32	13.377		0.0000	0.0000%	23328	4876	4.8	2			1.0000E-09
33	13.727	Endrin	2.0380	0.6121%	6093	1296	4.7	1	0	.1196	3.3450E-04
34	14.278	Endoslf II	5.4247	1.5291%	14794	2693	5.5	1	0	1.554	3.5668E-04
35	15.130		0.0000	0.0000%	11791	1886	6.3	1			1.0000E-09
36	15.932	DDT	3.6355	1.0918%	8282	923	9.0	1	0	.7385	4.3899E-04
37	23.413	DCB	103.8383	31.1847%	461454	101986	4.5	1	0	0	2.2502E-04

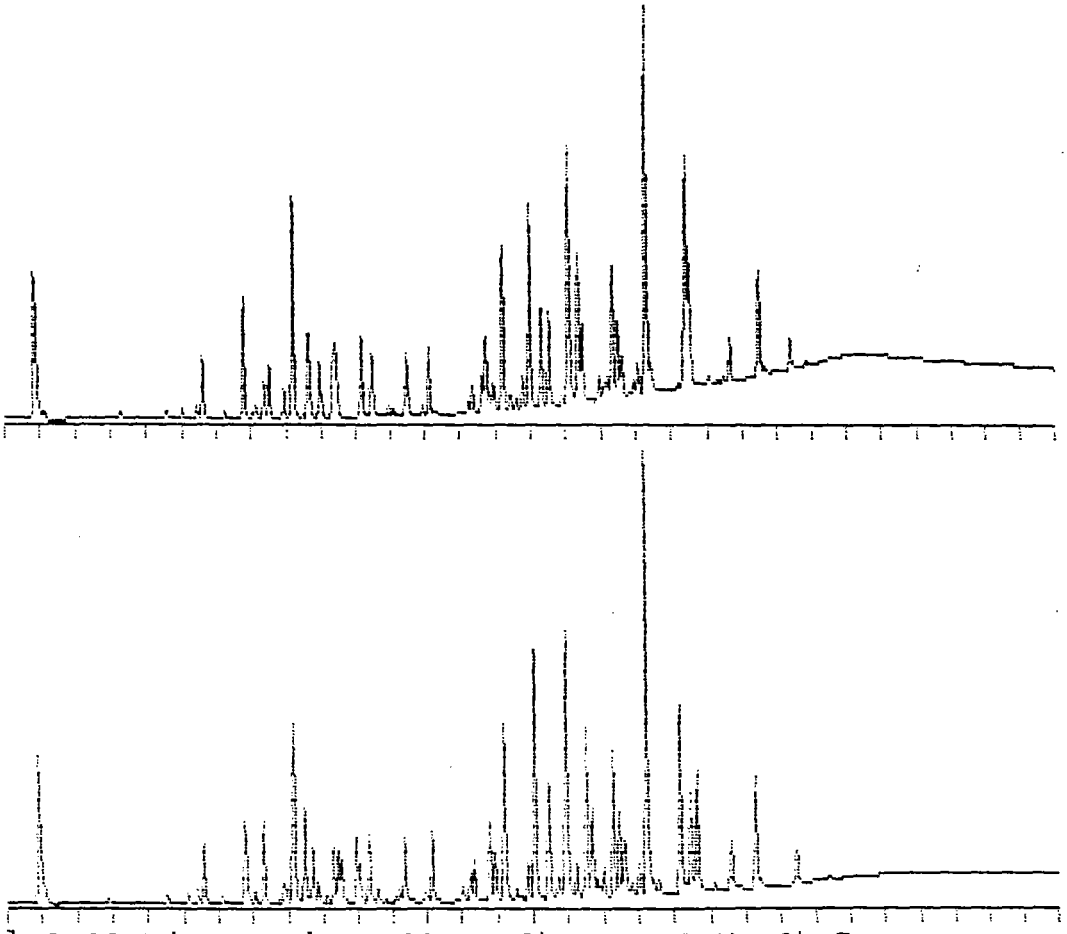
TOTAL AMOUNT = 332.9783

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0134.ATB
Data File = D:DED0134.PTS Printed on 12-07-1995 at 04:54:09
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
PCB 1660 1 Processed: 12-11-1995 09:27:24, segment 18, cycle 63
RAW DATA SAVED IN FILE D:DED0163.PTS Second Channel Stored in D:EED0163.PTS

***** EXTERNAL STANDARD TABLE *****

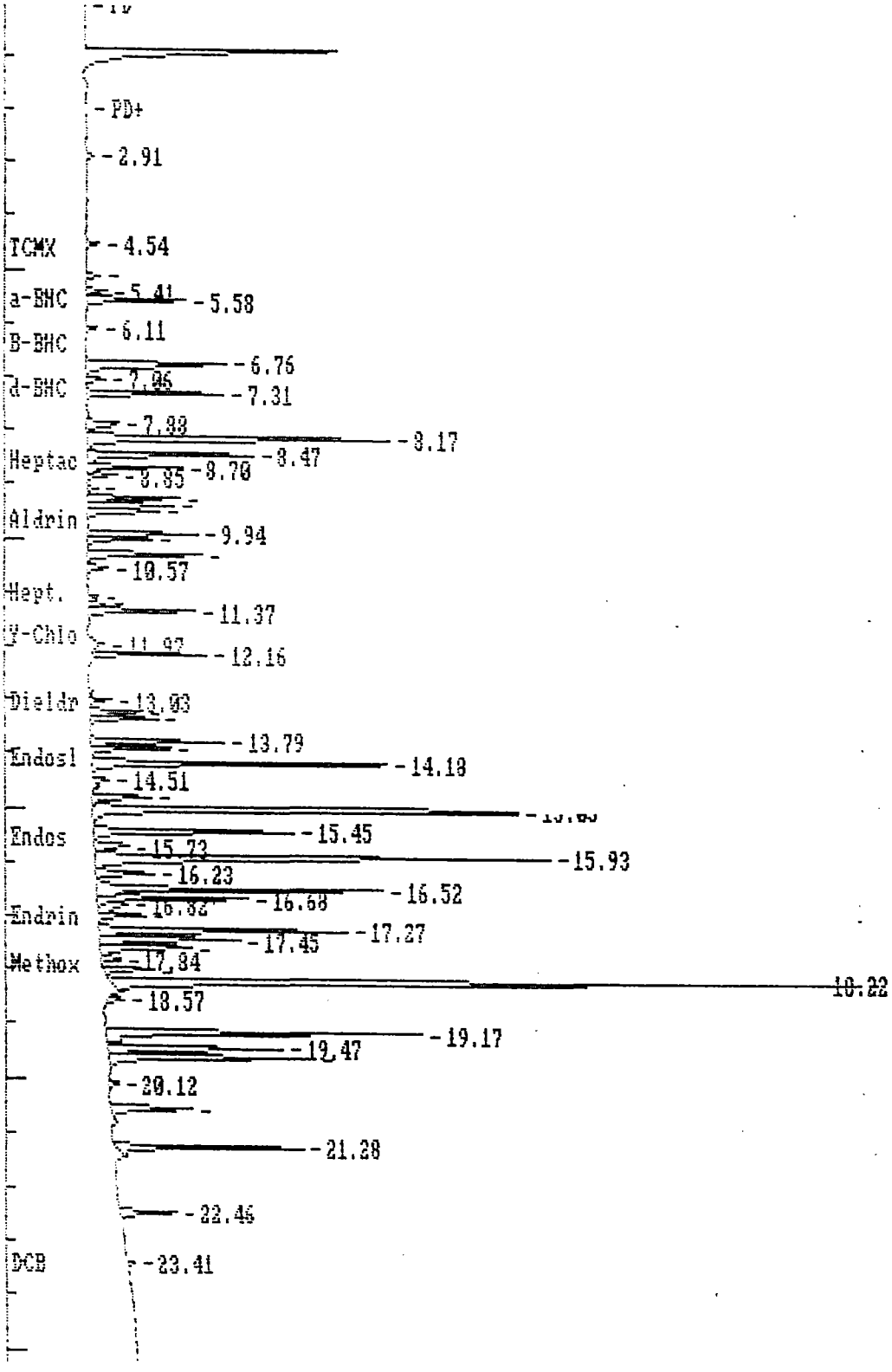
********** 12-11-1995 09:27:51 Version 5.1.5 **********
* Sample Name: PCB 1660 1PPM Data File: D:DED0163 *
* Date: 12-11-1995 08:56:44 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 63 Operator PVL Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 10 Area Threshold: 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	2.906		0.0000	0.0000%	4259	959	4.4	1		1.0000E-09
2	4.542	TCMX	3.0080	0.9269%	7546	1660	4.5	1	0	-.7299	3.9955E-04
3	5.144		0.0000	0.0000%	7896	1840	4.3	1		1.0000E-09
4	5.411		0.0000	0.0000%	10746	2537	4.2	2		1.0000E-09
5	5.578	a-BHC	19.4956	6.0073%	53682	12035	4.5	2	0	.3021	3.6317E-04
6	6.112		0.0000	0.0000%	6394	1476	4.3	1		1.0000E-09
7	6.763		0.0001	0.0000%	111446	17017	6.5	2		1.0000E-09
8	7.064		0.0000	0.0000%	10253	2290	4.5	2		1.0000E-09
9	7.315	d-BHC	34.6329	10.6715%	68438	16684	4.1	1	0	1.450	5.0568E-04
10	7.882		0.0000	0.0000%	26748	3932	6.8	2		1.0000E-09
11	8.166		0.0002	0.0001%	200192	36878	5.4	2		1.0000E-09
12	8.467	Heptachlor	27.3281	8.4207%	89307	20158	4.4	2	0	-1.318	3.0600E-04
13	8.701		0.0001	0.0000%	51894	11532	4.5	2		1.0000E-09
14	8.851		0.0000	0.0000%	15499	3573	4.3	2		1.0000E-09
15	9.101		0.0000	0.0000%	5489	1328	4.1	2		1.0000E-09
16	9.285		0.0000	0.0000%	48058	11187	4.3	2		1.0000E-09
17	9.419		0.0000	0.0000%	47088	10448	4.5	2		1.0000E-09
18	9.519	Aldrin	15.9128	4.9033%	43406	8767	5.0	2	0	-1.357	3.6660E-04
19	9.936		0.0001	0.0000%	58400	13261	4.4	2		1.0000E-09
20	10.037		0.0000	0.0000%	36891	7880	4.7	2		1.0000E-09
21	10.321		0.0001	0.0000%	67956	13812	4.9	2		1.0000E-09
22	10.571		0.0000	0.0000%	11679	2557	4.6	2		1.0000E-09
23	11.105	Hept. epox.	1.9154	0.5902%	5334	1236	4.3	2	0	1.050	3.5909E-04
24	11.239		0.0000	0.0000%	9436	2151	4.4	2		1.0000E-09
25	11.373		0.0001	0.0000%	56909	12914	4.4	2		1.0000E-09
26	11.974	Y-Chlordane	2.4902	0.7673%	7636	1509	5.1	2	0	1.559	3.2611E-04
27	12.158	Endosulfan I	20.5113	6.3202%	60135	13956	4.3	2	0	.1449	3.4030E-04
28	13.026	Dieldrin	3.7522	1.1562%	11848	2675	4.4	2	0	0	3.1669E-04
29	13.243	4,4-DDE	9.6394	2.9702%	27427	6251	4.4	2	0	.4797	3.5245E-04
30	13.360		0.0000	0.0000%	35693	8229	4.3	2		1.0000E-09
31	13.794	Endrin	24.0667	7.4158%	71948	16187	4.4	2	0	.6068	3.3450E-04
32	13.928		0.0000	0.0000%	45243	9673	4.7	2		1.0000E-09
33	14.178	Endoslf II	62.5141	19.2627%	170488	35984	4.7	2	0	.8413	3.6568E-04
34	14.512	4'4-DDD	4.0455	1.2466%	7306	1851	3.9	1	0	-.4575	5.5372E-04
35	14.830	Endrin ald	14.8098	4.5634%	33620	7241	4.6	2	0	.6761	4.4051E-04
36	15.030		0.0003	0.0001%	272534	51877	5.3	2		1.0000E-09
37	15.447	Endos sulf	51.9972	16.0220%	120600	24217	5.0	2	0	-.5312	4.4115E-04
38	15.731	DDT	10.6747	3.2892%	24316	4135	5.9	2	0	-.5286	4.3899E-04
39	15.932		0.0003	0.0001%	295627	55434	5.1	2		1.0000E-09
40	16.232		0.0000	0.0000%	36530	7069	5.2	2		1.0000E-09
41	16.516		0.0002	0.0000%	159948	34943	4.6	2		1.0000E-09
42	16.683		0.0001	0.0000%	82777	18396	4.5	3		1.0000E-09
43	16.817		0.0000	0.0000%	22628	3344	6.8	4		1.0000E-09
44	17.017	Endrin ket.	8.4433	2.6017%	26277	5806	4.5	2	0	.1017	3.2132E-04
45	17.268		0.0001	0.0000%	132507	30321	4.4	2		1.0000E-09
46	17.451		0.0001	0.0000%	77997	17109	4.6	2		1.0000E-09
47	17.602		0.0001	0.0000%	70237	11135	6.3	2		1.0000E-09
48	17.836	Methoxychlor	8.3558	2.5747%	13613	2368	5.7	2	0	-.1369	6.1380E-04
49	18.019		0.0000	0.0000%	30147	6316	4.8	1		1.0000E-09
50	18.220		0.0004	0.0001%	417466	91146	4.6	1		1.0000E-09
51	18.570		0.0000	0.0000%	7810	1993	3.9	1		1.0000E-09
52	19.172		0.0002	0.0001%	203968	38809	5.3	2		1.0000E-09
53	19.472		0.0001	0.0000%	97067	21306	4.6	2		1.0000E-09
54	19.639		0.0001	0.0000%	123439	25067	4.9	2		1.0000E-09
55	20.123		0.0000	0.0000%	5724	1170	4.9	1		1.0000E-09
56	20.574		0.0001	0.0000%	51233	9959	5.1	1		1.0000E-09
57	21.276		0.0001	0.0000%	101250	22520	4.5	1		1.0000E-09
58	22.461		0.0000	0.0000%	32826	6828	4.8	1		1.0000E-09
59	23.413	DCB	0.9390	0.2893%	4173	914	4.6	1	0	0	2.2502E-04

TOTAL AMOUNT = 324.5351

Areas, times, and heights stored in: D:DED0163.ATB
Data File = D:DED0163.PTS Printed on 12-11-1995 at 09:28:09
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.

FB
Bldg 1122

Lab Name EMSL Contract:

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

Matrix: (soil/w water Lab Sample I 95-54784

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:DED0148

% Moistu N/A canted: (Y/N) N Date Receive 11/28/95

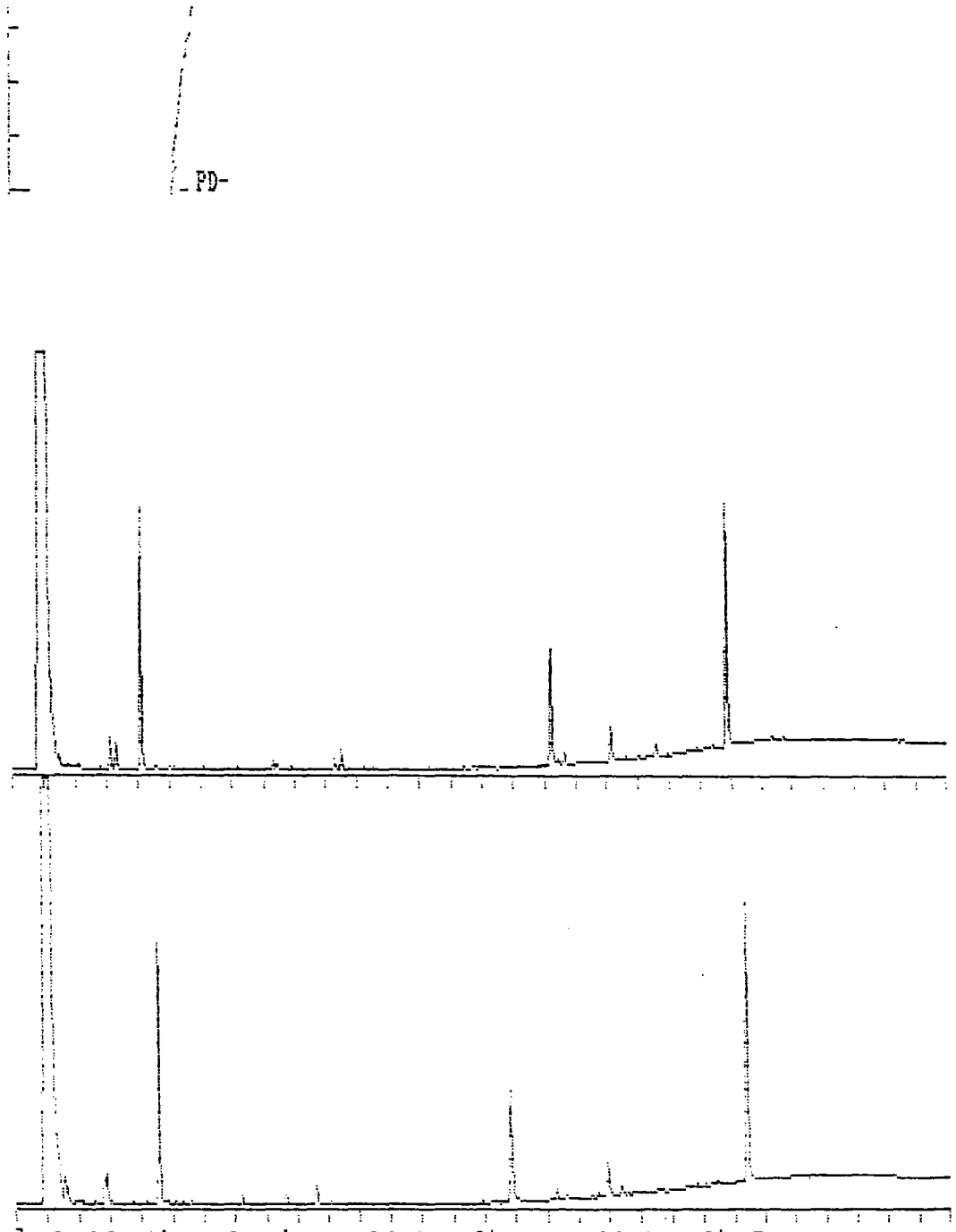
Extraction: (SepF/Cont/ Cont Date Extract 12/05/95

Concentrated Extract Vo 10 (ml) Date Analyze 12/07/95 12/4/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.04	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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
95-54784 P Processed: 12-08-1995 10:53:44, segment 3, cycle 48
RAW DATA SAVED IN FILE D:DED0148.PTS Second Channel Stored in D:EED0148.PTS

EXTERNAL STANDARD TABLE

12-08-1995 10:54:11 Version 5.1.5

Sample Name: 95-54784 PP Data File: D:DED0148
Date: 12-08-1995 10:23:22 Method: M:APES-H 11-17-1995 15:56:16 # 376
Interface: 1 Cycle#: 48 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:

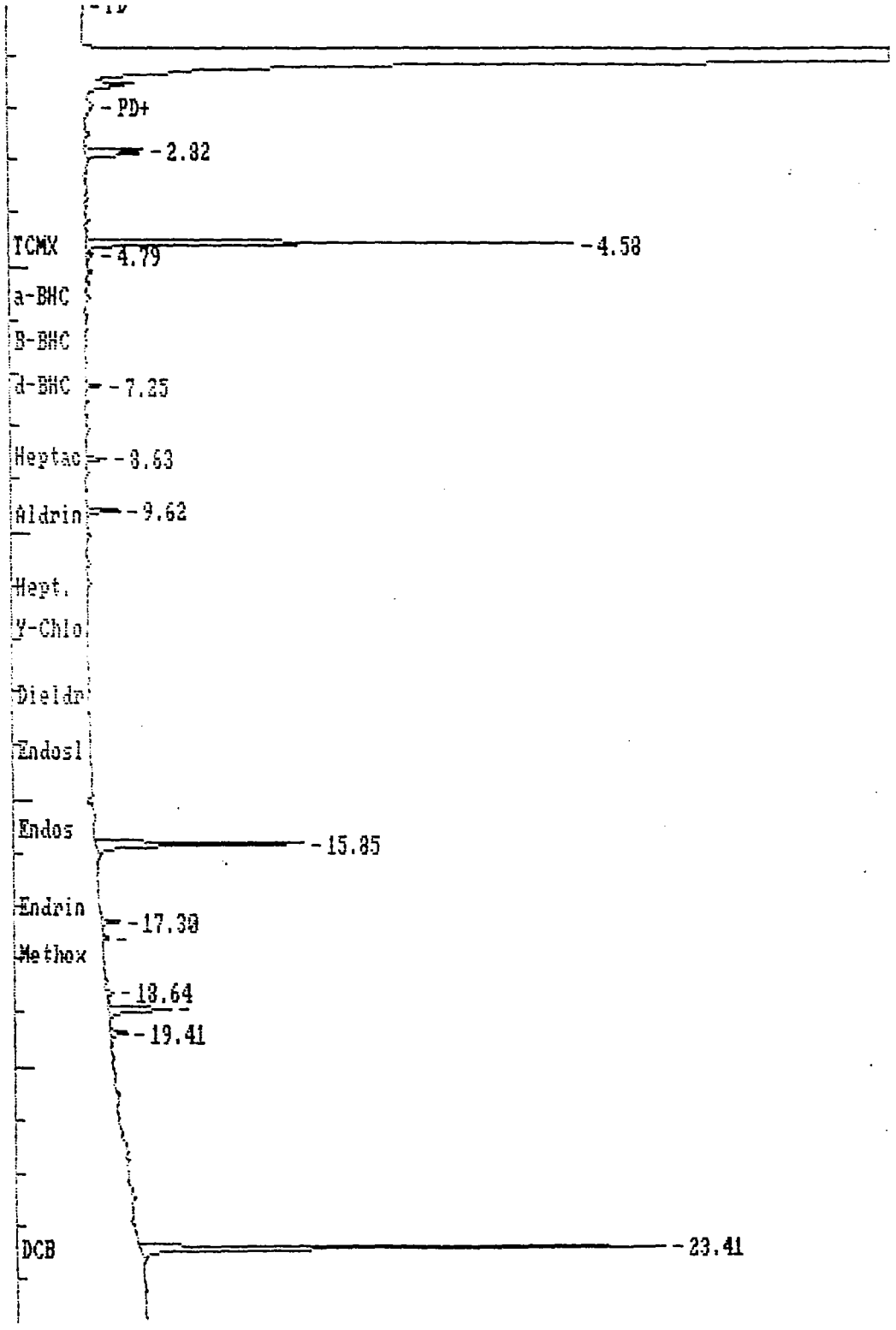
Starting Delay:	0.00	Ending retention time:	30.00
Area reject:	1000	One sample per	1.002 sec.
Amount injected:	1.00	Dilution factor:	1.00
Sample Weight:	1.00000		

1	2.822		0.0001	0.0000%	50667	7099	7.1	1			1.0000E-09
2	4.576	TCMX	84.0349	37.0157%	210798	60070	3.5	2	0	0	3.9365E-04
3	4.793		0.0000	0.0000%	4846	818	5.9	2			1.0000E-09
4	7.248	d-BHC	3.6160	1.5928%	7151	1935	3.7	1	0	.5242	5.0563E-04
5	8.634	Heptachlor	3.1888	1.4046%	10421	2494	4.2	1	0	.6292	3.0500E-04
6	9.619	Aldrin	7.3636	3.2435%	20086	4088	4.9	1	0	-.3191	3.6660E-04
7	15.848	DDT	57.9537	25.5274%	132015	25582	5.2	1	0	.2105	4.3999E-04
8	17.301	Endrin ket.	3.2213	1.4189%	10025	2277	4.4	1	0	1.771	3.2132E-04
9	17.618	Methoxychlor	2.4564	1.0820%	4002	847	4.7	1	0	-1.401	6.1390E-04
10	18.637		0.0000	0.0000%	3918	902	4.3	1			1.0000E-09
11	19.955		0.0000	0.0000%	41136	7614	5.4	1			1.0000E-09
12	19.405		0.0000	0.0000%	10827	2106	5.1	1			1.0000E-09
13	23.413	DCB	65.1906	28.7151%	289705	64453	4.5	1	0	0	2.2502E-04

TOTAL AMOUNT = 227.0253

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0148.ATB
Data File = D:DED0148.PTS Printed on 12-08-1995 at 10:54:24
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.

MW2
29337161
Bldg 290

Lab Name EMSL Contract:

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

Matrix: (soil/w water Lab Sample I 95-54785

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:DED0143

% Moistu N/A canted: (Y/N) N Date Receive 11/28/95

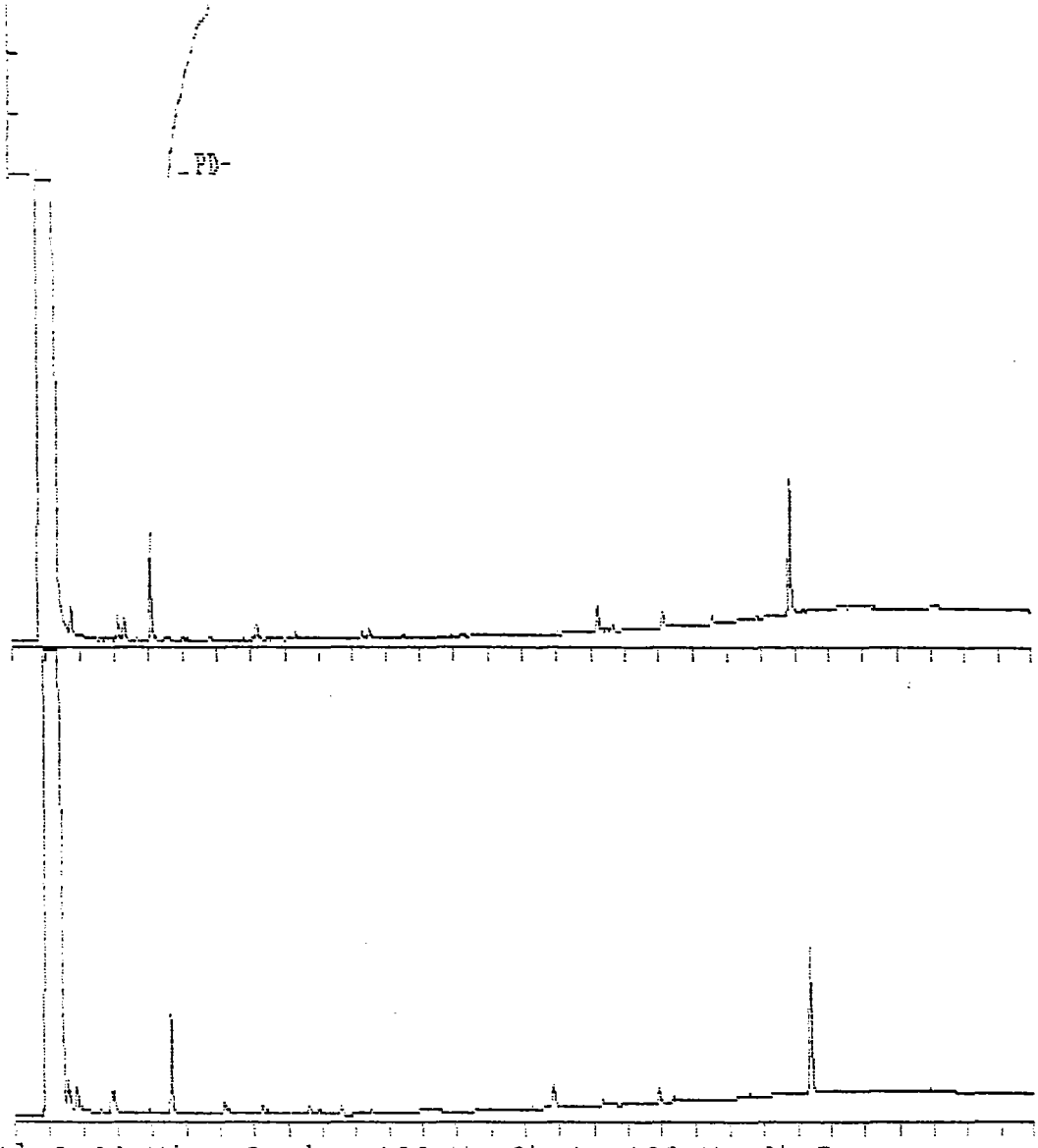
Extraction: (SepF/Cont/ Cont Date Extract 12/05/95

Concentrated Extract Vo 10 (ml) Date Analyze 12/07/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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
95-54785 p Processed: 12-07-1995 20:27:16, segment 5, cycle 43
RAW DATA SAVED IN FILE D:DED0143.PTS Second Channel Stored in D:EED0143.PTS

EXTERNAL STANDARD TABLE

12-07-1995 20:27:47 Version 5.1.5

Sample Name: 95-54785 pest Data File: D:DED0143
Date: 12-07-1995 19:56:56 Method: M:APES-H 11-17-1995 15:56:16 # 376
Interface: 1 Cycle#: 43 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

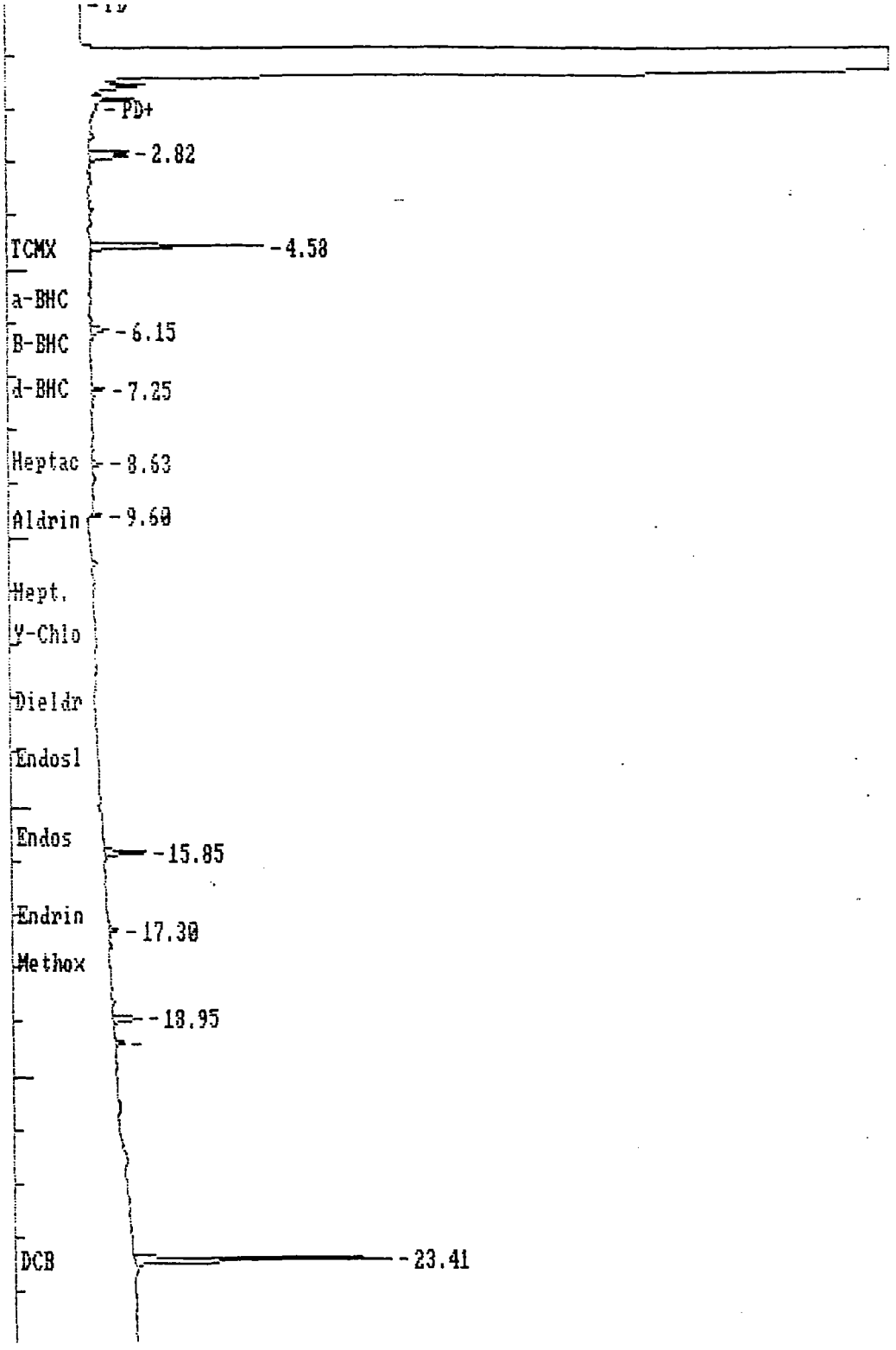
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.822		0.0000	0.0000%	37299	4748	7.9	1			1.0000E-09
2	4.576	TCMX	20.2250	27.2954%	75942	20959	3.6	1	0	0	2.9965E-04

6	9.602 Aldrin	2.3251	2.8693%	6345	1393	4.6 1	0	-.4922	3.6660E-04
7	15.848 DDT	11.0465	13.6251%	25163	4968	5.1 1	0	.2105	4.3899E-04
8	17.301 Endrin ket.	1.4672	1.8098%	4566	1078	4.2 1	0	1.771	3.2132E-04
9	18.955	0.0000	0.0000%	17737	3336	5.3 1			1.0000E-09
10	19.405	0.0000	0.0000%	5444	1039	5.2 1			1.0000E-09
11	23.413 DCB	31.6734	39.0697%	140755	31474	4.5 1	0	0	2.2502E-04

TOTAL AMOUNT = 81.0690

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:DED0143.ATB
Data File = D:DED0143.PTS Printed on 12-07-1995 at 20:27:59
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-

***** EXTERNAL STANDARD TABLE *****

********** 12-07-1995 20:28:05 Version 5.1.5 **********

* Sample Name: 95-54785 pest Data File: D:EED0143 *
* Date: 12-07-1995 19:56:56 Method: M:BPES-H 11-17-1995 16:01:54 # 369 *
* Interface: 1 Cycle#: 43 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: *

****

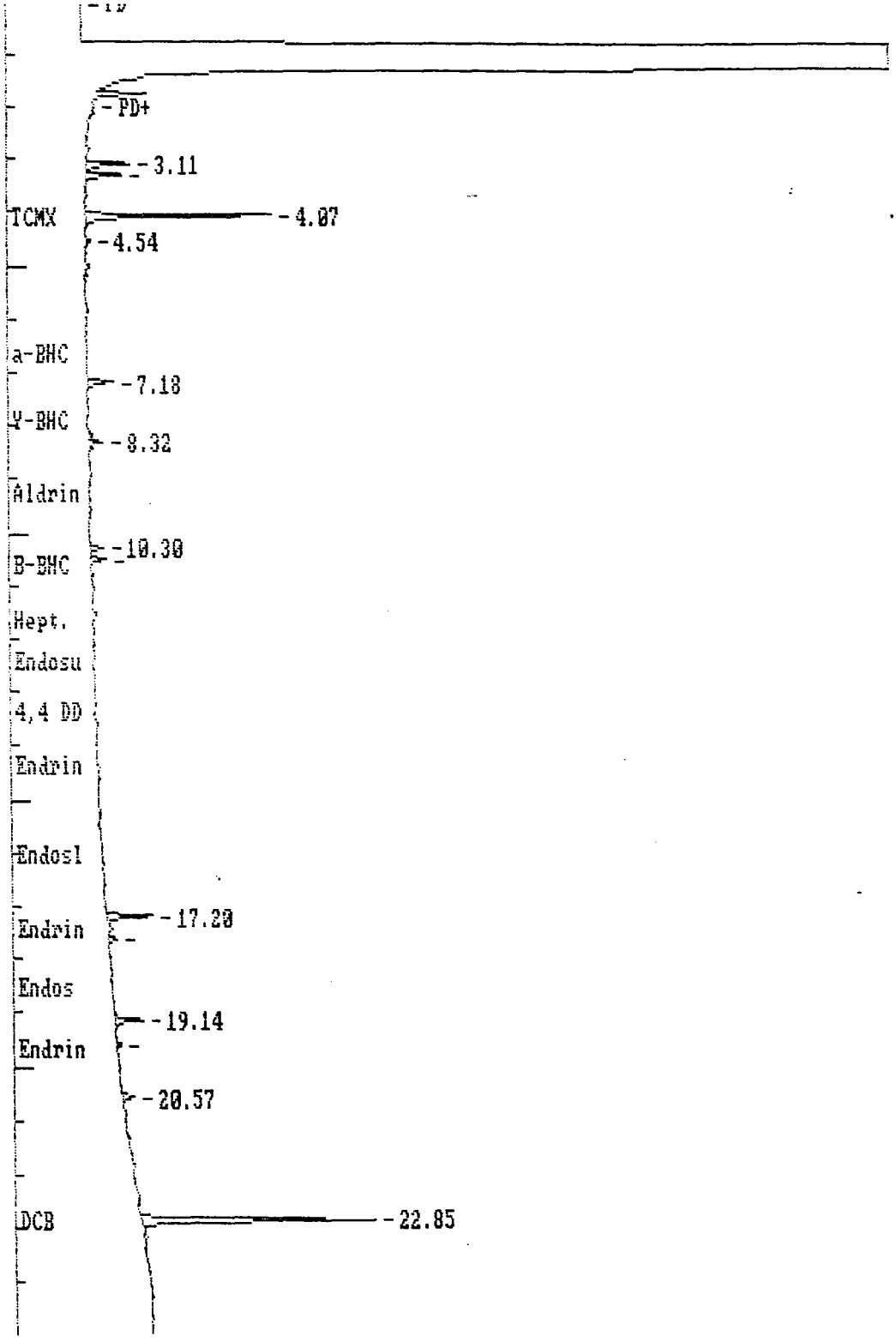
Starting Delay: 0.00 Ending retention time: 30.00
Area reject: 500 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.196		0.0000	0.0000%	22268	5383	4.1	2			1.0000E-09
2	3.307		0.0000	0.0000%	18331	4312	4.3	2			1.0000E-09
3	4.075	TCMX	38.2429	32.1850%	87450	22712	3.9	1	0	0	4.3731E-04
4	4.542		0.0000	0.0000%	3030	541	5.6	1			1.0000E-09
5	7.181		0.0000	0.0000%	15967	3186	5.0	1			1.0000E-09
6	8.317	Heptachlor	2.2093	1.8593%	5915	1738	3.4	1	0	-1.345	3.7349E-04
7	10.304		0.0000	0.0000%	7619	1620	4.7	1			1.0000E-09
8	10.521	B-BHC	5.6920	4.7904%	8768	1929	4.5	1	0	-.4635	6.4918E-04
9	17.201	Endrin ald	15.7916	13.2901%	26943	5642	4.8	1	0	-1.143	5.8612E-04
10	17.635		0.0000	0.0000%	4580	1045	4.4	1			1.0000E-09
11	19.138	Methoxychl	14.8466	12.4948%	17382	3397	5.1	1	0	1.528	8.5415E-04
12	19.622	Endrin ket	1.0218	0.8600%	2488	515	4.8	1	0	0	4.1071E-04
13	20.574		0.0000	0.0000%	7579	1532	4.9	1			1.0000E-09
14	22.846	DCB	41.0178	34.5204%	134245	28744	4.7	1	0	0	3.0554E-04

TOTAL AMOUNT = 118.8222

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:EED0143.ATB
Data File = D:EED0143.PTS Printed on 12-07-1995 at 20:28:18
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



2F

WATER ~~SOIL~~ PESTICIDE SURROGATE RECOVERY

Lab Name: EMSL Contract: .

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

GC Column(1): DB-5 ID: 0.32 (mm) GC Column(2): DB-1701 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	MB 28-2	83				86						0
02	46683 MS	93				100						0
03	46683 MSD	93				98		-				0
04	MB 49-4	86		99		51		50				0
05	95-5475S	33				30						0
06	95-5478	87				78						0
07	95-5478	84		97		26		26				0
08	95-5484	91				63						0
09												
10												
11												
12												
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ADVISORY QC LIMITS

TXC = Tetrachloro-m-xylene (20-150)
DCB = Decachlorobiphenyl (30-150)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

4A
METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: EMSL Analytical Contract: _____

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

Lab File ID: D:0C22D14 Lab Sample ID: MB28-2

Instrument ID: HP5890/SIP Date Analyzed: 10/22/95

Matrix: (soil/water) Water Time Analyzed: 16:55

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		95-46683 MS	D:0C22D21	10/22/95
02		95-46683 MSD	D:0C22D22	10/22/95
03				
04				
05				
06				
07				
08				
09				
10				
11				
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COMMENTS:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 373

Lab Name EMSL Contract:

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

Matrix: (soil/w water Lab Sample I MB 28-2

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:OC22D14

% Moistu N/A canted: (Y/N) N Date Receive

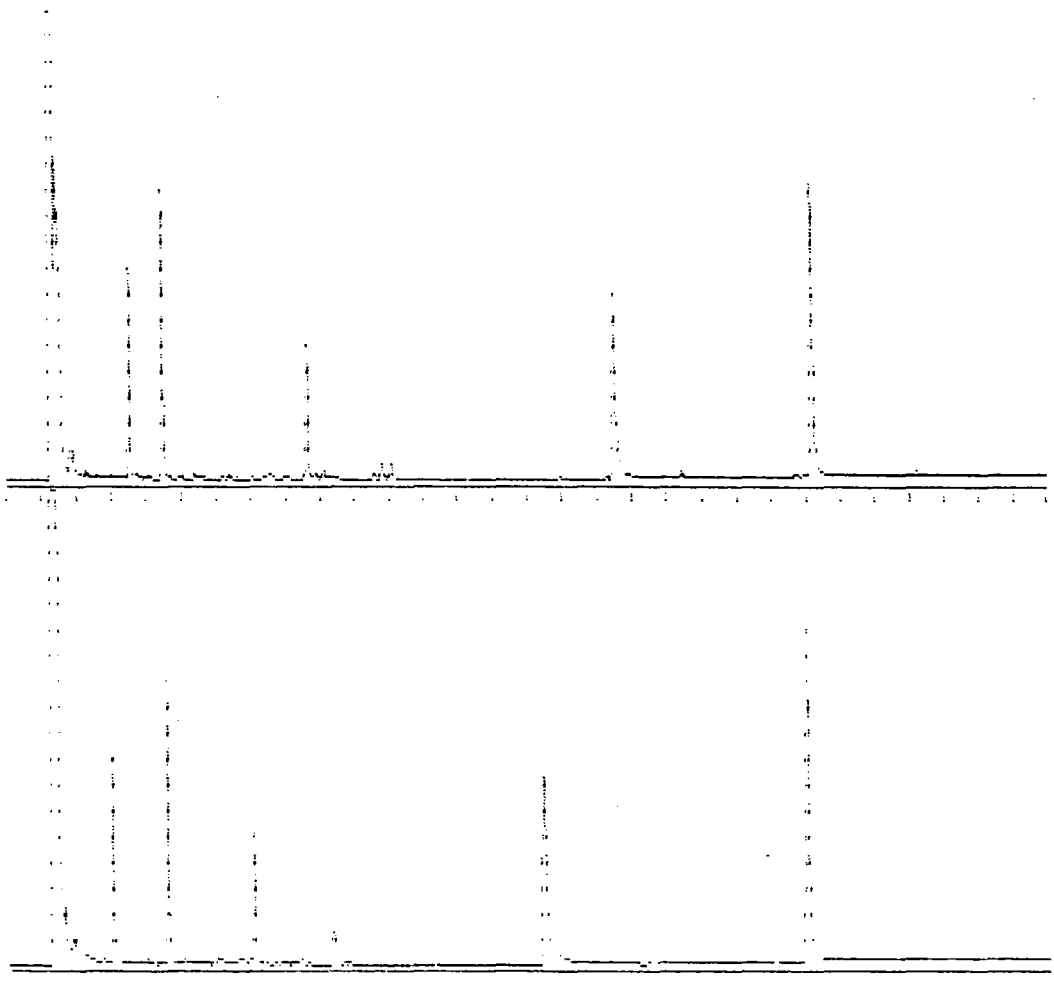
Extraction: (SepF/Cont/ Cont Date Extract 10/16/95

Concentrated Extract Vo 10 (ml) Date Analyze 10/22/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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



EXTERNAL STANDARD TABLE

Sample Name: 0.1 ppb 2mm Filel: C:\DATA\014

Instrument: Channel: Det: ECD Channel#: 0 Vial#: N.A.

Instrument Type: Packed Column Type: RTX-5 30m,.25mm

Conditions: 210 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

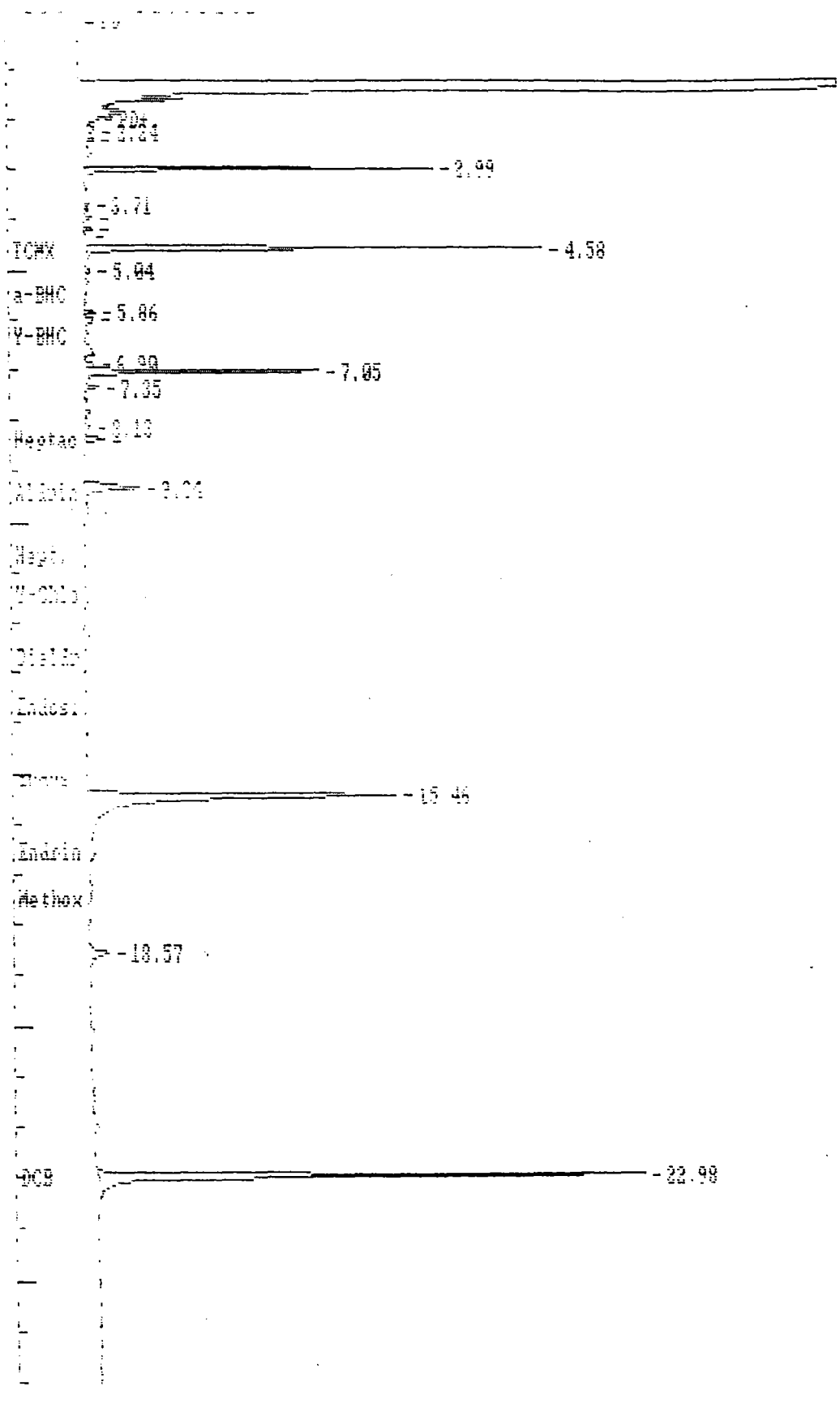
Sample per 1.000 sec.

Dilution Factor: 1.00

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA

TOTAL AMOUNT = 347.3851

NUMBER	AMOUNT	PERCENT


-2.99
-3.71
TCMX
-4.58
-5.04
a-BHC
-5.86
Y-BHC
-7.05
-7.35
Heptac
-15.46
Endrin
Methox
-18.57
DCB
-22.98

Data File Difference

Starting Delay: 0.00 Ending Retention time: 11.00

Area Reject: 500 One sample per 1.002

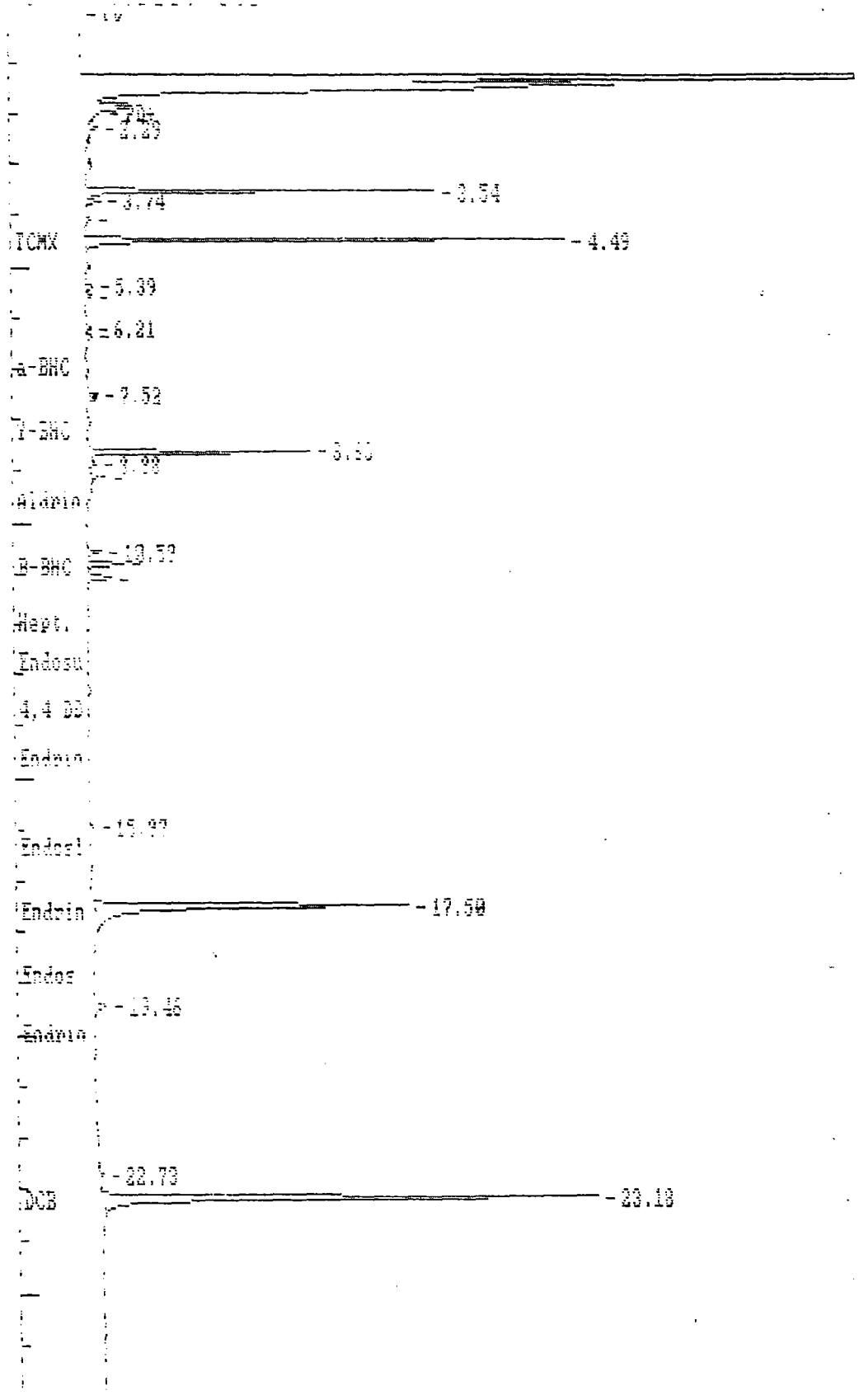
Amount Injected: 1.00 Dilution Factor: 1.01

Sample Weight:

1	1.138		1.0000	1.0000%	5431	1211	4.5	1			1.0000E-03
2	1.184		1.0000	1.0000%	232284	44701	5.2	1			1.0000E-03
3	1.[illegible]		1.0000	1.0000%	7736	1337	5.8	1			1.0000E-03
4	1.371		1.0000	1.0000%	2229	722	3.1	1			1.0000E-03
5	1.431 TOM		21.1254	14.1551%	235871	41831	5.6	1	V	V	1.4151E-01
6	1.534		1.0000	1.0000%	5401	939	5.8	1			1.0000E-03
7	1.[illegible]		1.0000	1.0000%	5312	737	7.2	1			1.0000E-03
8	1.[illegible]		1.0000	1.0000%	3[illegible]	[illegible]	[illegible]	1			1.0000E-03
9	1.[illegible]		1.0000	1.0000%	1[illegible]	[illegible]	4.8	1			[illegible]
10	1.811		1.0000	1.0000%	2[illegible]	371	5.5	1			1.0000E-03
11	1.[illegible]		[illegible]	[illegible]	[illegible]	12471	[illegible]	1			[illegible]
12	1.[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	5.5	1	V	[illegible]	1.[illegible]E-01
13	[illegible]		[illegible]	[illegible]	[illegible]	1838	5.8	1			1.0000E-03
14	11.339		1.0000	1.0000%	3497	1837	4.8	1			1.0000E-03
15	11.821 B-BB1		15.0818	4.1151%	20394	4748	5.8	1		-.1541	5.4-15E-04
16	11.939		1.0000	1.0000%	15737	3873	5.8	1			1.0000E-03
17	12.265		1.0200	1.0000%	1376	477	4.4	1			1.0000E-03
18	17.502 ENDRIN ETC		137.1731	-1.9681%	217442	47731	6.6	1	V	-.1884	5.8612E-04
19	17.655 MB.TCX.DIC		7.0382	1.0394%	9013	1331	5.8	1	V	.1814	3.7-15E-04
20	21.719		1.0004	1.0001%	2449	519	4.7	1			1.0000E-03
21	23.139 DDE		101.3467	27.2069%	1333218	68351	5.8	1	V	V	1.0134E-02

TOTAL AMOUNT = 374.3008

GROUP NUMBER GROUP AMOUNT GROUP PERCENT


TCMX
a-BHC
Aldrin
B-BHC
Endosu
Endosl
Endrin
Endos
Endrin
DCB
- 3.54
- 4.49
- 17.50
- 23.10

4A
METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: EMSL Analytical Contract: _____

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

Lab File ID: D:DED0160 Lab Sample ID: 7116 49-4

Instrument ID: HP5890/5TL Date Analyzed: 12/8/95

Matrix: (soil/water) Water Time Analyzed: 17:34

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		95-54781	D:DED0142	12/7/95
02		95-54782	D:DED0147	12/8/95
03		95-54784	D:DED0148	12/8/95
04		95-54785	D:DED0143	12/7/95
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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/w water Lab Sample I MB 49-4

Sample wt/vol: 1000 (g/mL mL Lab File ID: D:ded0160

% Moistu N/A canted: (Y/N) N Date Receive

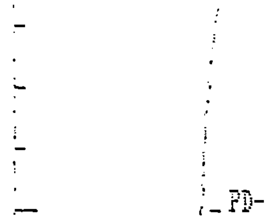
Extraction: (SepF/Cont/ Cont Date Extract 12/05/95

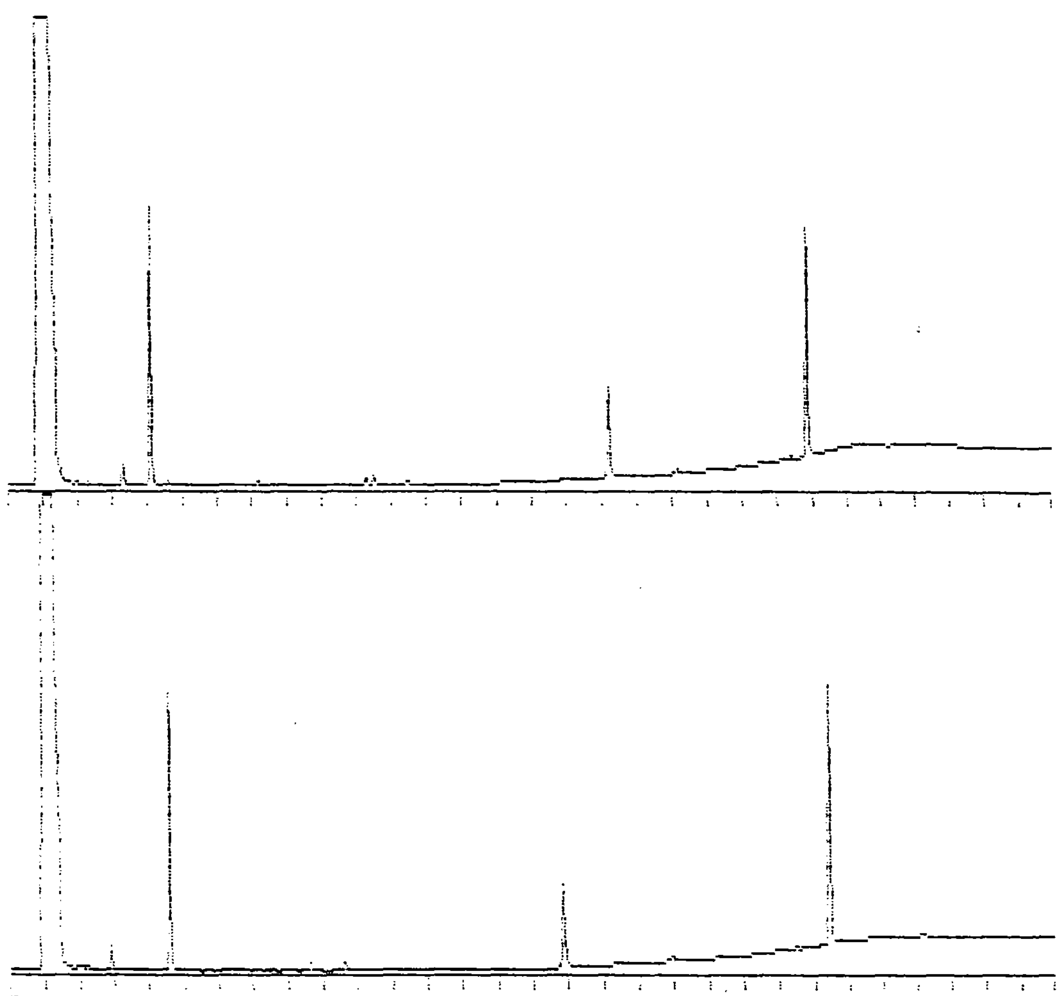
Concentrated Extract Vo 10 (ml) Date Analyze 12/08/95

Injection Volum 1 (uL) Dilution Fac 1

GPC Cleanup: (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	0.04	U
319-86-8	delta-BHC	0.02	U
58-89-9	gamma-BHC (Lindane)	0.03	U
76-44-8	Heptachlor	0.02	U
309-00-2	Aldrin	0.04	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.03	U
72-55-9	4,4'-DDE	0.04	U
72-20-8	Endrin	0.04	U
33213-65-9	Endosulfan II	0.04	U
72-54-8	4,4'-DDD	0.04	U
1031-07-8	Endosulfan sulfate	0.08	U
50-29-3	4,4'-DDT	0.04	U
7421-36-3	Endrin aldehyde	0.1	U
57-74-9	Chlordane	0.1	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 49-4 P Processed: 12-08-1995 18:05:06, segment 15, cycle 60
RAW DATA SAVED IN FILE D:DED0160.PTS Second Channel Stored in D:EED0160.PTS

***** EXTERNAL STANDARD TABLE *****

********************* 12-08-1995 18:05:33 Version 5.1.5 *********************
* Sample Name: BLK 49-4 PP   Data File: D:DED0160 *
* Date: 12-08-1995 17:34:42 Method: M:APES-H 11-17-1995 15:56:16 # 376 *
* Interface: 1 Cycle#: 60 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: *
****

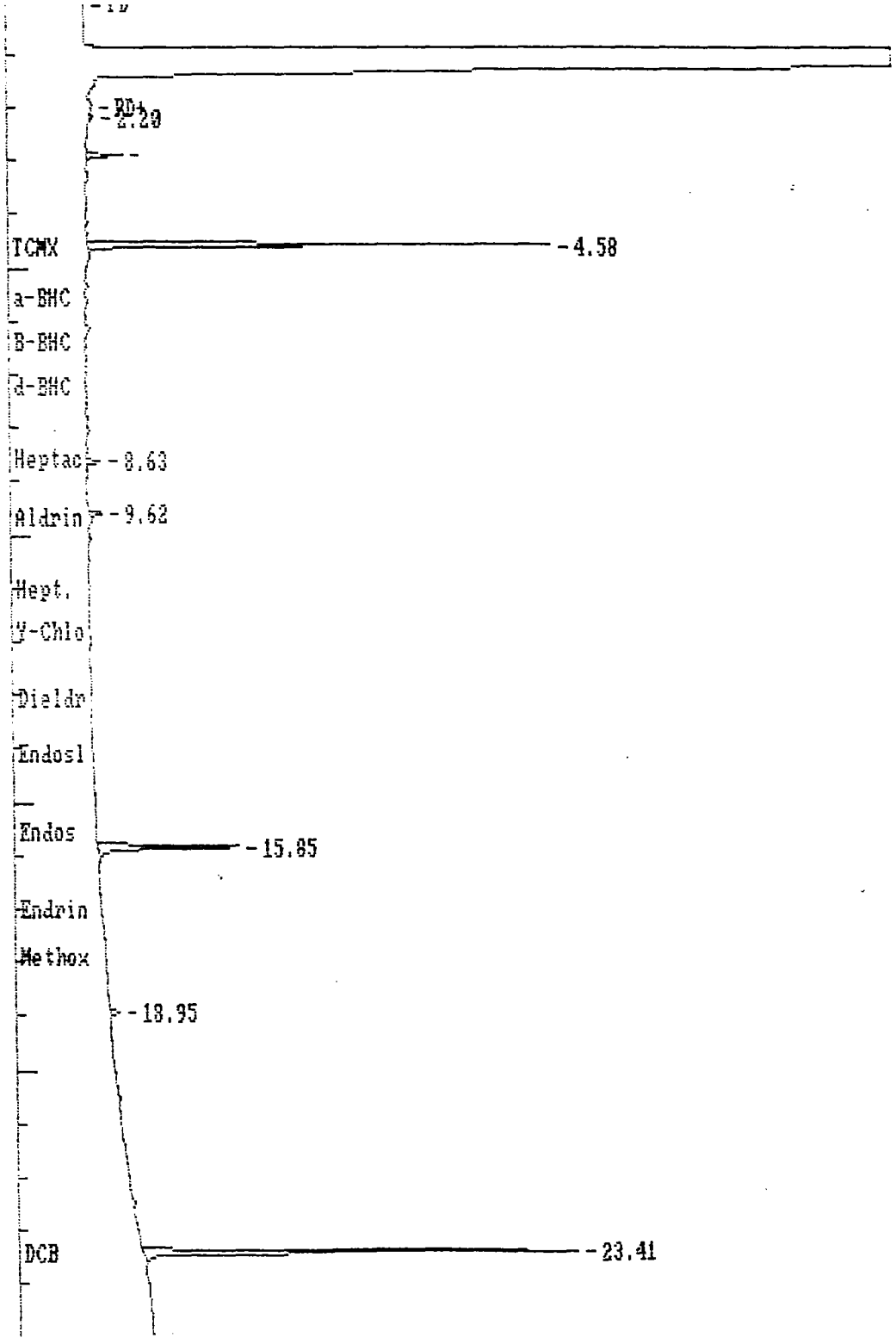
Starting Delay: 0.00	Ending retention time: 30.00
Area reject: 1000	One sample per 1.002 sec.
Amount injected: 1.00	Dilution factor: 1.00
Sample Weight: 1.00000	

1	2.204		0.0000	0.0000%	2533	643	3.9	1			1.0000E-09
2	2.906		0.0000	0.0000%	17937	4407	4.1	1			1.0000E-09
3	4.576	TCMX	79.1082	45.2080%	198440	56850	3.5	1	0	386 0	3.9865E-04
4	8.634	Heptachlor	2.2671	1.2956%	7409	1695	4.4	1	0	.6282	3.0600E-04
5	9.519	Aldrin	2.3766	1.3582%	6483	1497	4.3	1	0	-.3191	3.6660E-04
6	15.848	DDT	38.1202	21.7846%	86835	17127	5.1	1	0	.2105	4.3899E-04
7	18.955		0.0000	0.0000%	5346	1067	5.0	1			1.0000E-09
8	23.413	DCB	53.1150	30.3536%	236041	53526	4.4	1	0	0	2.2502E-04

TOTAL AMOUNT = 174.9871

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:DED0160.ATS
Data File = D:DED0160.PTS Printed on 12-08-1995 at 18:05:46
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-

396

***** EXTERNAL STANDARD TABLE *****

********************* 12-08-1995 18:05:53 Version 5.1.5 *********************

* Sample Name: BLK 49-4 PP Data File: D:EED0160 *

* Date: 12-08-1995 17:34:42 Method: M:8PES-H 11-17-1995 16:01:54 # 369 *

* Interface: 1 Cycle#: 80 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

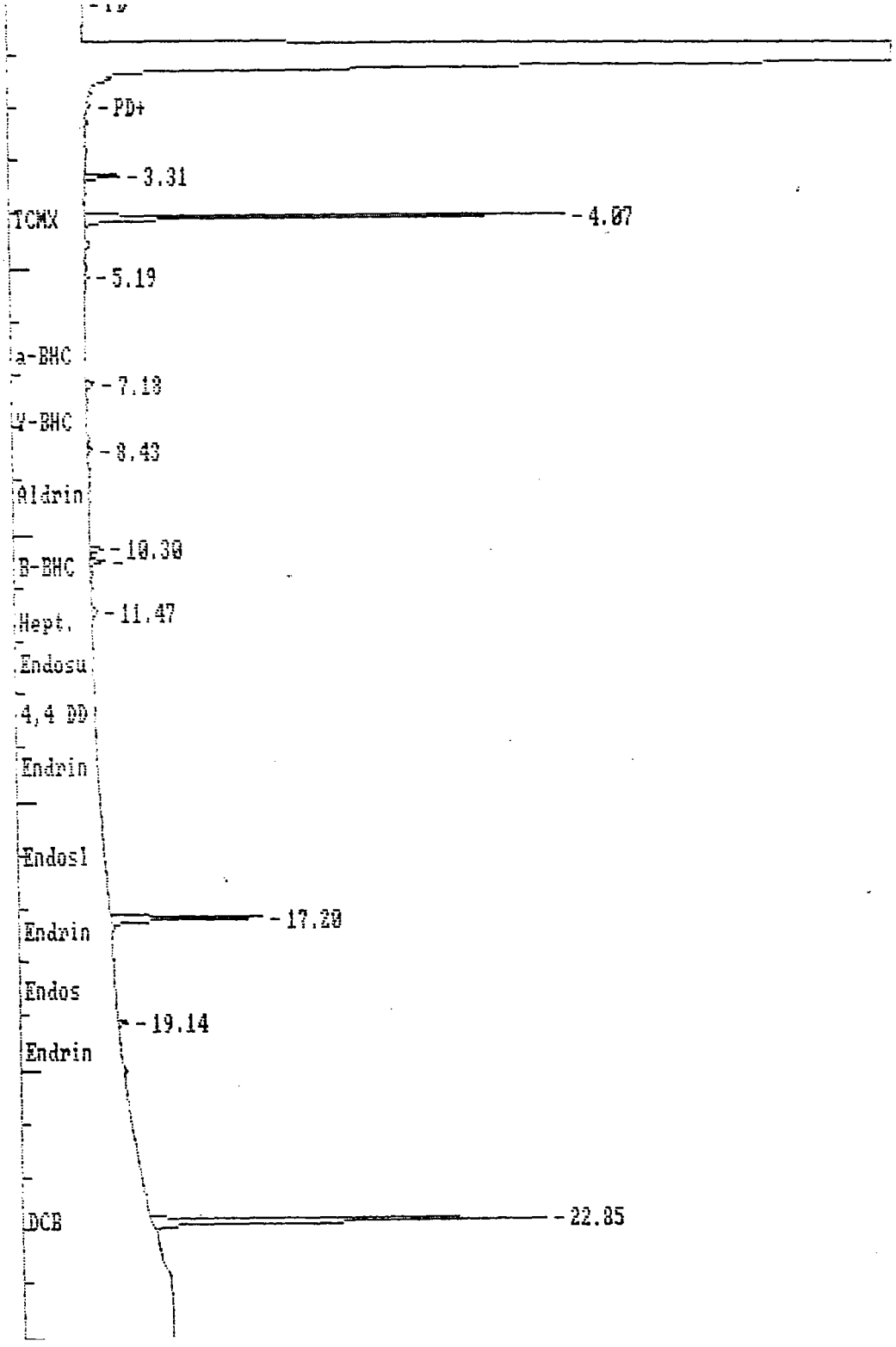
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ppb	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.307		0.0000	0.0000%	18069	4332	4.2	1			1.0000E-09
2	4.075	TCMX	94.2368	41.0343%	215490	58642	3.7	1	0	0	4.3731E-04
3	5.194		0.0000	0.0000%	1969	539	3.7	1			1.0000E-09
4	7.181		0.0000	0.0000%	6725	1051	6.4	1			1.0000E-09
5	8.433	Heptachlor	0.9442	0.4111%	2528	616	4.1	1	0	.0415	3.7349E-04
6	10.304		0.0000	0.0000%	8297	1686	4.9	1			1.0000E-09
7	10.521	B-BHC	5.3062	2.3282%	8944	1895	4.7	1	0	-.4635	6.4913E-04
8	11.473	Hept. epox.	1.3754	0.8166%	4637	637	7.3	1	0	-1.265	4.0447E-04
9	17.201	Endrin ald	52.5401	22.8780%	89641	18323	4.9	1	0	-1.143	5.8612E-04
10	19.138	Methoxychl	5.2507	2.2864%	6147	1217	5.1	1	0	1.528	8.5415E-04
11	22.846	DCB	69.0000	30.0453%	225826	48156	4.7	1	0	0	3.0554E-04

TOTAL AMOUNT = 229.6534

GROUP NUMBER GROUP AMOUNT GROUP PERCENT

Areas, times, and heights stored in: D:EED0160.ATB
Data File = D:EED0160.PTS Printed on 12-08-1995 at 18:06:06
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.: 95-46683

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	0.80	U	0.76	95	56-123
Heptachlor	0.80	U	0.74	93	40-131
Aldrin	0.80	U	0.80	100	40-120
Dieldrin	0.80	U	0.65	81	52-126
Endrin	0.80	U	0.71	89	56-121
4,4'-DDT	0.80	U	0.83	104	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.80	0.71	89	7	15	56-123
Heptachlor	0.80	0.7	88	6	20	40-131
Aldrin	0.80	0.77	96	4	22	40-120
Dieldrin	0.80	0.64	80	1	18	52-126
Endrin	0.80	0.7	88	1	21	56-121
4,4'-DDT	0.80	0.81	101	3	27	38-127

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

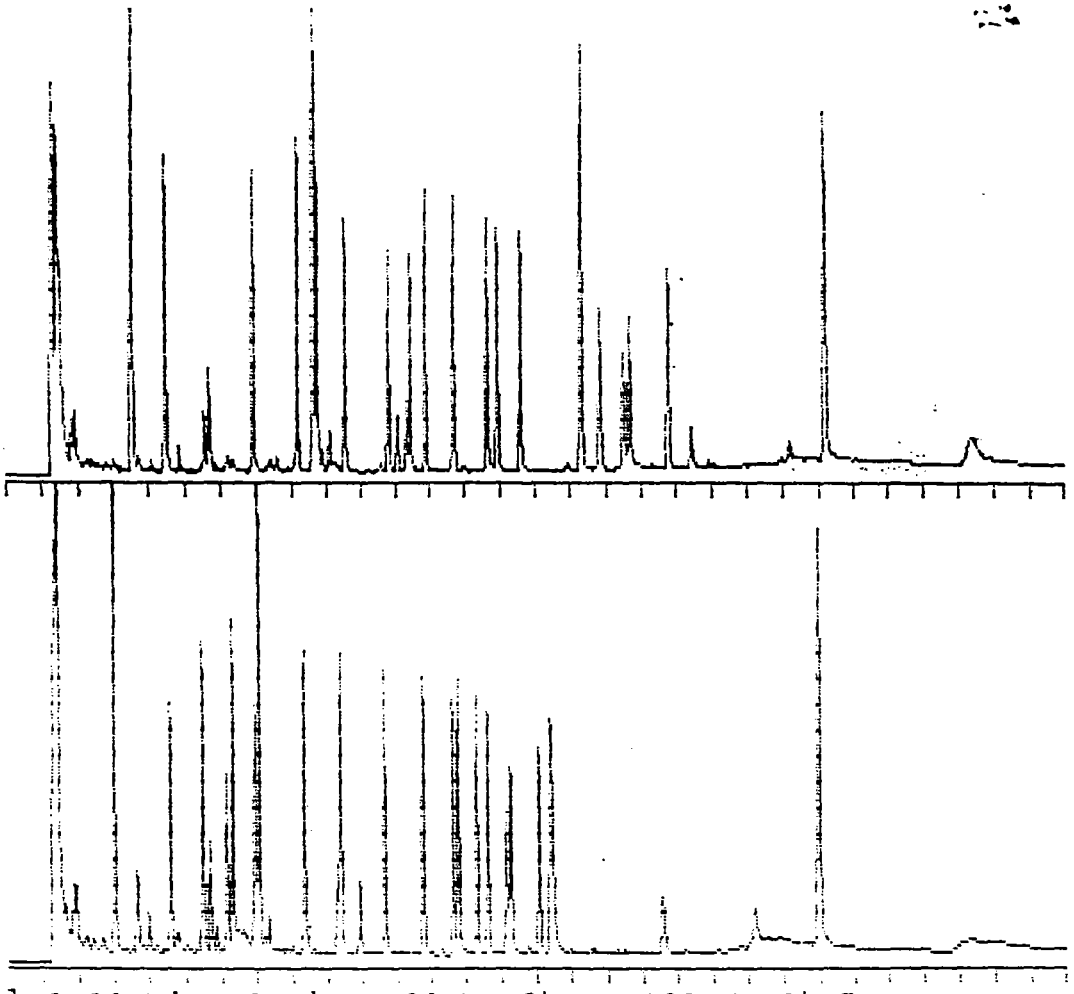
* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

PD-



[Interface 1] 0-30 Min Scale: 100 Mv Ch.A, 100 Mv Ch.B
9546683ms Processed: 10-22-1995 21:24:07, segment 21, cycle 21.
RAW DATA SAVED IN FILE D:0C22D21.PTS Second Channel Stored in D:PC22D21.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 21:24:59 Version 5.1.5 **********

* Sample Name: 9546683ms Data File: D:0C22D21 *
* Date: 10-22-1995 20:53:28 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* Interface: 1 Cycle#: 21 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

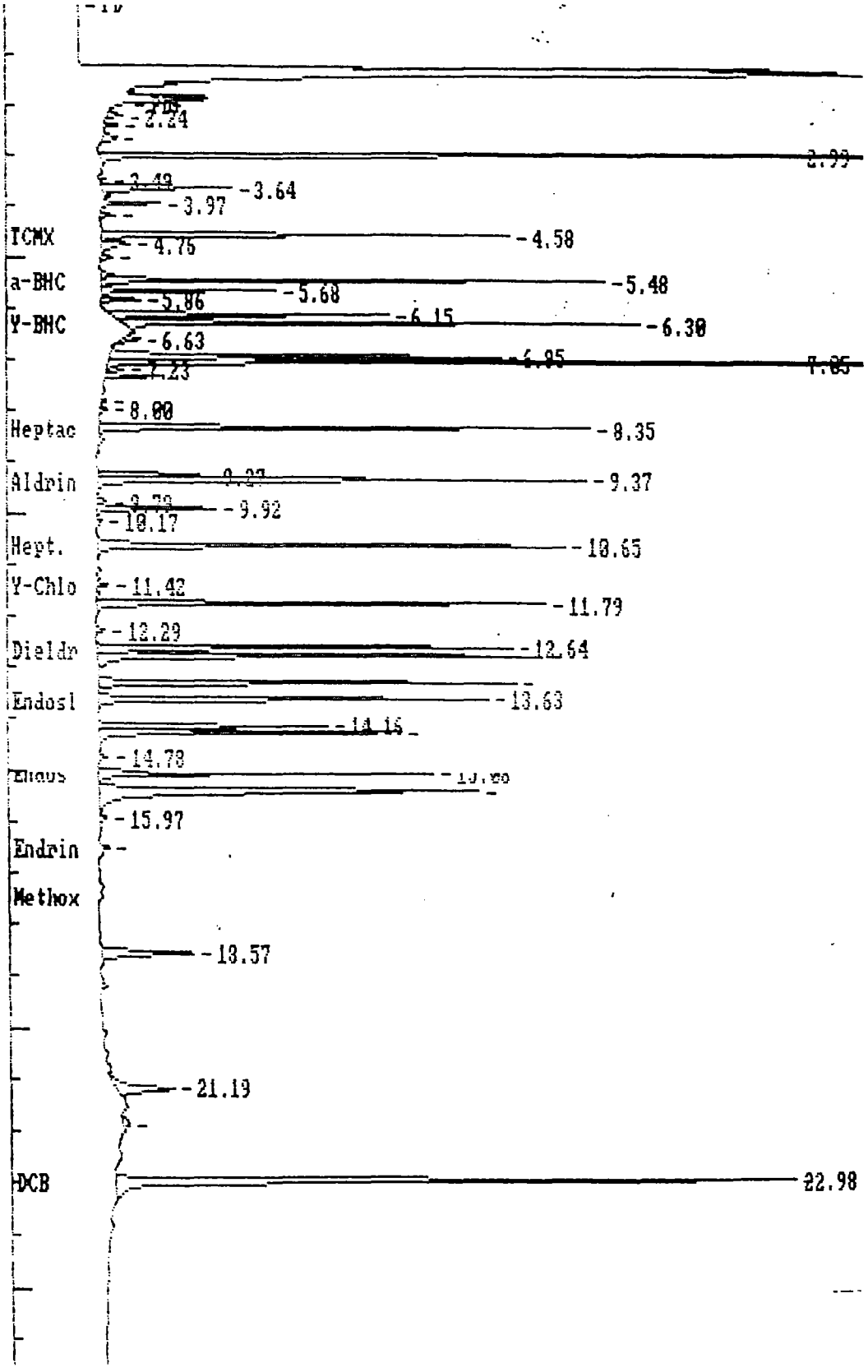
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED	AREA/	REF	% DELTA

4	2.989		0.0006	0.0000%	634132	199156	3.2	1			1.0000E-09
5	3.490		0.0000	0.0000%	3319	1042	3.2	1			1.0000E-09
6	3.641		0.0001	0.0000%	76149	16495	4.6	1			1.0000E-09
7	3.975		0.0000	0.0000%	24993	7371	3.4	2			1.0000E-09
8	4.208		0.0000	0.0000%	7871	2053	3.8	2			1.0000E-09
9	4.576	TCMX	73.7146	4.8962%	184910	51969	3.6	2	0	0	3.9865E-04
10	4.760		0.0000	0.0000%	25660	3676	7.0	2			1.0000E-09
11	5.027		0.0000	0.0000%	7122	1451	4.9	2			1.0000E-09
12	5.361		0.0000	0.0000%	5315	1612	3.7	2			1.0000E-09
13	5.478	a-BHC	71.4470	4.7456%	196733	63987	3.1	2	0	0	3.6317E-04
14	5.678		0.0001	0.0000%	79140	22197	3.6	2			1.0000E-09
15	5.862		0.0000	0.0000%	18904	4945	3.8	2			1.0000E-09
16	6.146	B-BHC	81.6948	5.4263%	126702	35412	3.6	2	0	-.2710	6.4478E-04
17	6.296	Y-BHC	76.3529	5.0715%	222535	65847	3.4	2	0	-.2645	3.4310E-04
18	6.630		0.0000	0.0000%	9854	2106	4.7	1			1.0000E-09
19	6.947	d-BHC	94.1744	6.2552%	186233	49883	3.7	2	0	0	5.0568E-04
20	7.047		0.0005	0.0000%	514534	140760	3.7	3			1.0000E-09
21	7.231		0.0000	0.0000%	8999	2300	3.9	4			1.0000E-09
22	7.348		0.0000	0.0000%	25925	6834	3.8	2			1.0000E-09
23	7.832		0.0000	0.0000%	3578	777	4.6	2			1.0000E-09
24	7.999		0.0000	0.0000%	4235	940	4.5	2			1.0000E-09
25	8.350	Heptachlor	74.4268	4.9435%	243224	62393	3.9	1	0	0	3.0600E-04
26	9.268		0.0001	0.0000%	55474	12816	4.3	2			1.0000E-09
27	9.369	Aldrin	92.0680	6.1153%	251141	62082	4.0	2	0	-.1779	3.6660E-04
28	9.786		0.0000	0.0000%	5608	1274	4.4	2			1.0000E-09
29	9.920		0.0001	0.0000%	63222	15062	4.2	2			1.0000E-09
30	10.170		0.0000	0.0000%	3873	688	5.6	2			1.0000E-09
31	10.655	Hept. epox.	83.3239	5.5345%	232042	59421	3.9	1	0	0	3.5909E-04
32	11.423	Y-Chlordane	1.9633	0.1304%	6021	1494	4.0	1	0	0	3.2611E-04
33	11.790	Endosulfan I	76.6104	5.0886%	224794	57185	3.9	1	0	0	3.4060E-04
34	12.291		0.0000	0.0000%	5982	1191	5.0	1			1.0000E-09
35	12.642	Dieldrin	64.6219	4.2923%	204055	52867	3.9	2	0	-.1319	3.1669E-04
36	12.792	4,4-DDE	83.4036	5.5398%	237310	56693	4.2	2	0	-.1303	3.5145E-04
37	13.310	Endrin	71.4231	4.7440%	213521	53037	4.0	1	0	-.1253	3.3450E-04
38	13.627	Endoslf II	77.9666	5.1787%	212629	49541	4.3	1	0	-.1224	3.6668E-04
39	14.162	4'4-DDD	66.0221	4.3853%	119234	29178	4.1	2	0	-.1177	5.5372E-04
40	14.378	Endrin ald	80.3444	5.3366%	182388	38048	4.8	2	0	-.1168	4.4051E-04
41	14.779		0.0000	0.0000%	4829	1130	4.3	1			1.0000E-09
42	15.080	Endos sulf	78.5817	5.2195%	132259	42631	4.3	2	0	-.1106	4.3115E-04
43	15.414	DDT	149.3882	9.9226%	340296	48306	7.0	2	0	0	4.3899E-04
44	15.965		0.0000	0.0000%	5450	949	5.7	2			1.0000E-09
45	16.533	Endrin ket.	1.3260	0.0881%	4127	1012	4.1	1	0	0	3.2132E-04
46	18.570		0.0001	0.0000%	74296	11623	6.4	1			1.0000E-09
47	21.192		0.0001	0.0000%	58318	7255	8.0	1			1.0000E-09
48	21.894		0.0000	0.0000%	6598	760	8.7	1			1.0000E-09
49	22.979	DCB	106.6831	7.0860%	474096	86109	5.5	1	0	0	2.2502E-04
50	27.271		0.0000	0.0000%	31981	958	33.4	1			1.0000E-09

TOTAL AMOUNT = 1505.5387

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D21.ATB
Data File = D:0C22D21.PTS Printed on 10-22-1995 at 21:25:23
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



EXTERNAL STANDARD TABLE

********** 10-22-1995 21:26:38 Version 5.1.5 **********

* Sample Name: 9546683ms Data File: D:PC22D21 *
* Date: 10-22-1995 20:53:28 Method: M:BPES-H 10-05-1995 10:26:41 # 367 *
* Interface: 1 Cycle#: 21 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	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.288		0.0000	0.0000%	8891	1418	6.3 2			1.0000E-09
2	2.422		0.0000	0.0000%	8550	1276	6.7 2			1.0000E-09
3	2.806		0.0000	0.0000%	3822	1125	3.4 1			1.0000E-09
4	3.023		0.0000	0.0000%	11027	1854	5.9 1			1.0000E-09
5	3.257		0.0000	0.0000%	3531	816	4.3 1			1.0000E-09
6	3.540		0.0006	0.0000%	580775	203056	2.9 1			1.0000E-09
7	4.091		0.0000	0.0000%	10230	2380	4.3 1			1.0000E-09
8	4.492 TCMX		99.7506	5.0752%	223121	67031	3.4 2	0	0	4.4731E-04
9	4.876		0.0000	0.0000%	23849	5167	4.6 2			1.0000E-09
10	5.361		0.0001	0.0000%	58026	12492	4.6 2			1.0000E-09
11	5.695		0.0001	0.0000%	78860	21759	3.6 3			1.0000E-09
12	5.895		0.0000	0.0000%	7010	1618	4.3 4			1.0000E-09
13	6.212		0.0000	0.0000%	19107	2734	7.0 2			1.0000E-09
14	6.379		0.0000	0.0000%	10763	2345	4.6 2			1.0000E-09
15	6.947 a-BHC		78.5161	5.0176%	201914	63735	3.2 2	0	-.2398	3.8886E-04
16	7.298		0.0000	0.0000%	3547	980	3.6 2			1.0000E-09
17	7.432		0.0000	0.0000%	16961	2197	7.7 2			1.0000E-09
18	7.615		0.0000	0.0000%	13527	3125	4.3 2			1.0000E-09
19	7.932		0.0000	0.0000%	2434	746	3.3 1			1.0000E-09
20	8.099		0.0000	0.0000%	6942	1932	3.6 2			1.0000E-09
21	8.183 Y-BHC		78.5484	5.0196%	209974	70126	3.0 2	0	-.2036	3.7409E-04
22	8.634		0.0004	0.0000%	435787	127048	3.4 2			1.0000E-09
23	8.751 Heptachlor		77.9918	4.9840%	208820	62981	3.3 2	0	-.1904	3.7349E-04
24	9.118		0.0000	0.0000%	29683	7709	3.9 1			1.0000E-09
25	9.552 Aldrin		80.3430	5.1343%	189793	53139	3.6 1	0	0	4.2332E-04
26	10.588		0.0000	0.0000%	6767	1494	4.5 1			1.0000E-09
27	10.822 B-BHC		111.4915	7.1248%	171742	46780	3.7 2	0	-.1540	6.4918E-04
28	11.105		0.0000	0.0000%	46623	12012	4.0 2			1.0000E-09
29	11.356		0.0001	0.0000%	54584	14325	3.8 2			1.0000E-09
30	11.473 d-BHC		74.4461	4.7575%	146037	45398	3.2 2	0	0	5.0977E-04
31	11.907 Hept. epox.		84.7804	5.4179%	209606	58908	3.6 1	0	-.1400	4.0447E-04
32	12.709 Endosulf I		81.3401	5.1980%	213697	57793	3.7 2	0	-.1312	3.8028E-04

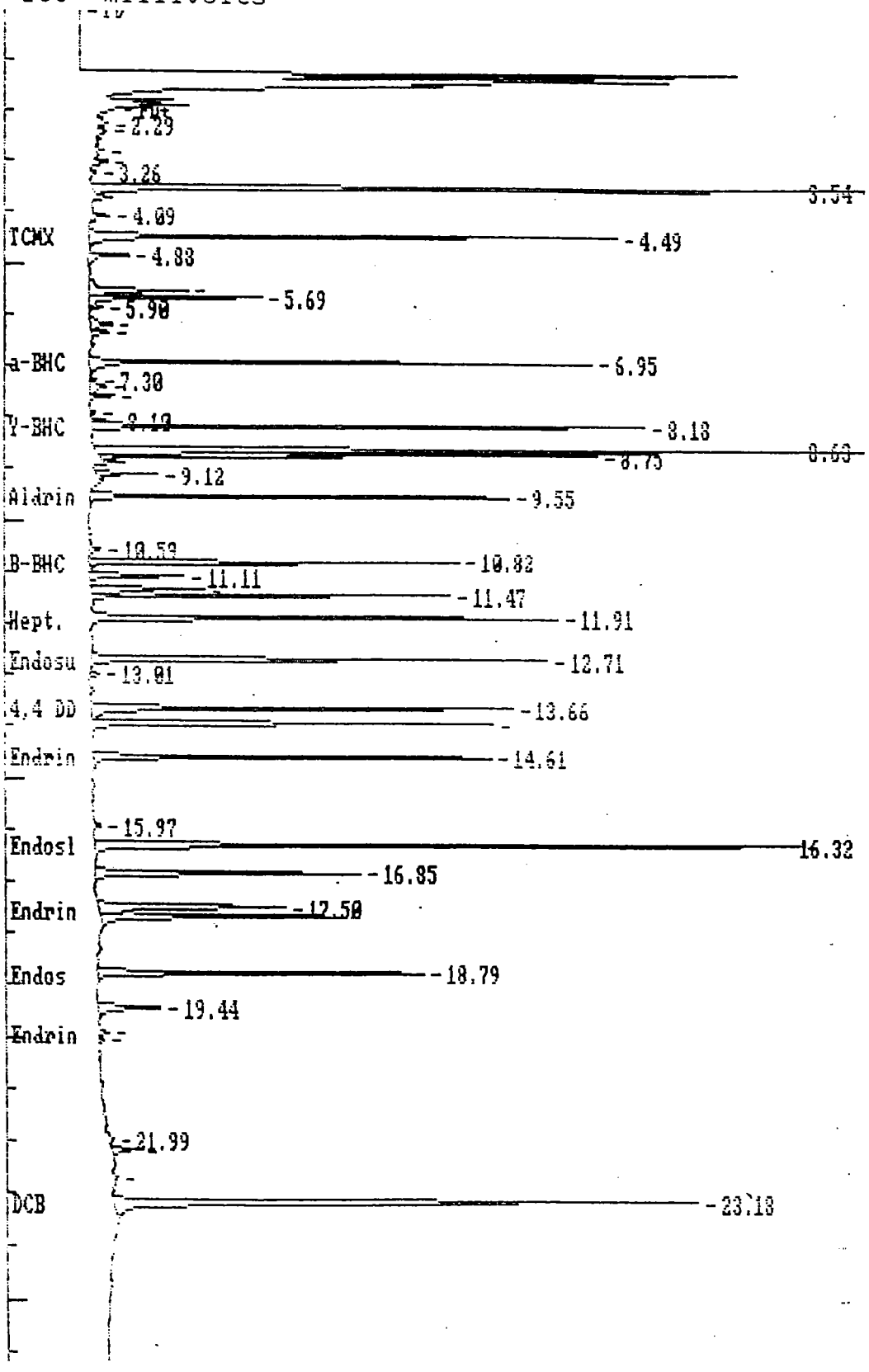
37	15.965		0.0000	0.0000%	3392	883	3.8	1			1.0000E-09
38	16.316	Endosulfil	159.9273	10.2201%	369607	89448	4.1	1	0	0	4.3270E-04
39	16.850	4,4 DDT	83.0789	5.3091%	136048	33674	4.0	1	0	0	6.1066E-04
40	17.502	Endrin ald	73.0459	4.6680%	124627	23695	5.3	2	0	-.2854	5.8612E-04
41	17.685		0.0001	0.0000%	141350	30830	4.6	2			1.0000E-09
42	18.788	Endos sulf	84.8836	5.4245%	166816	41396	4.0	1	0	-.0888	5.0885E-04
43	19.439	Methoxychl	39.4985	2.5241%	46243	7966	5.8	1	0	1.482	8.5415E-04
44	19.940	Endrin ket	2.0739	0.1325%	5050	1239	4.1	2	0	0	4.1071E-04
45	20.690		0.0000	0.0000%	2999	679	4.4	2			1.0000E-09
46	21.394		0.0000	0.0000%	5549	751	7.4	2			1.0000E-09
47	22.194		0.0000	0.0000%	19759	3618	5.5	2			1.0000E-09
48	22.729		0.0000	0.0000%	2655	546	4.9	1			1.0000E-09
49	23.180	DCB	111.8410	7.1472%	366038	74020	4.9	1	0	0	3.0554E-04
50	27.388		0.0001	0.0000%	83030	4863	17.1	1			1.0000E-09

397

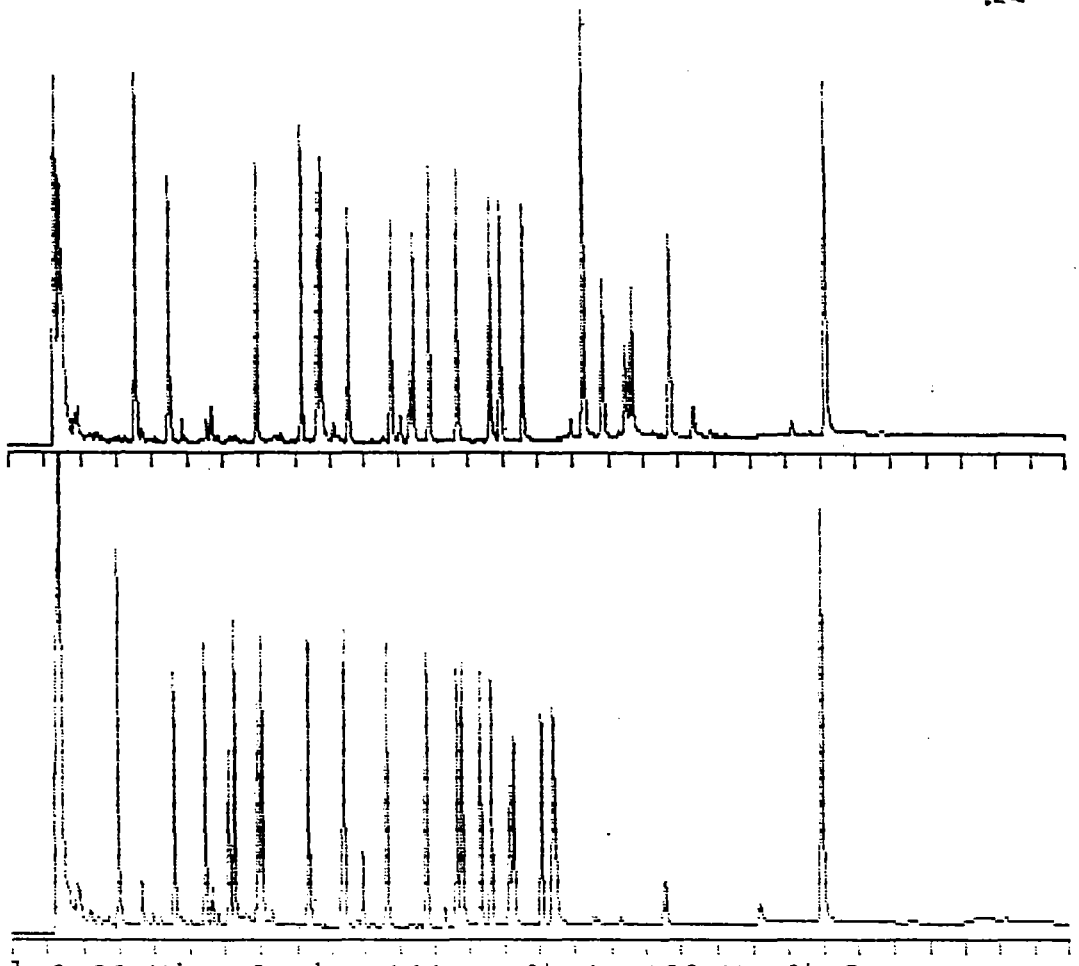
TOTAL AMOUNT = 1564.8287

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:PC22021.AT8
Data File = D:PC22021.PTS Printed on 10-22-1995 at 21:27:03
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
9546683msd Processed: 10-22-1995 21:58:12, segment 22, cycle 22
RAW DATA SAVED IN FILE D:0C22D22.PTS Second Channel Stored in D:PC22D22.PTS

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 21:59:04 Version 5.1.5 **********

* Sample Name: 9546683msd Data File: D:0C22D22 *
* Date: 10-22-1995 21:27:35 Method: M:APES-H 10-06-1995 05:31:24 # 375 *
* Interface: 1 Cycle#: 22 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

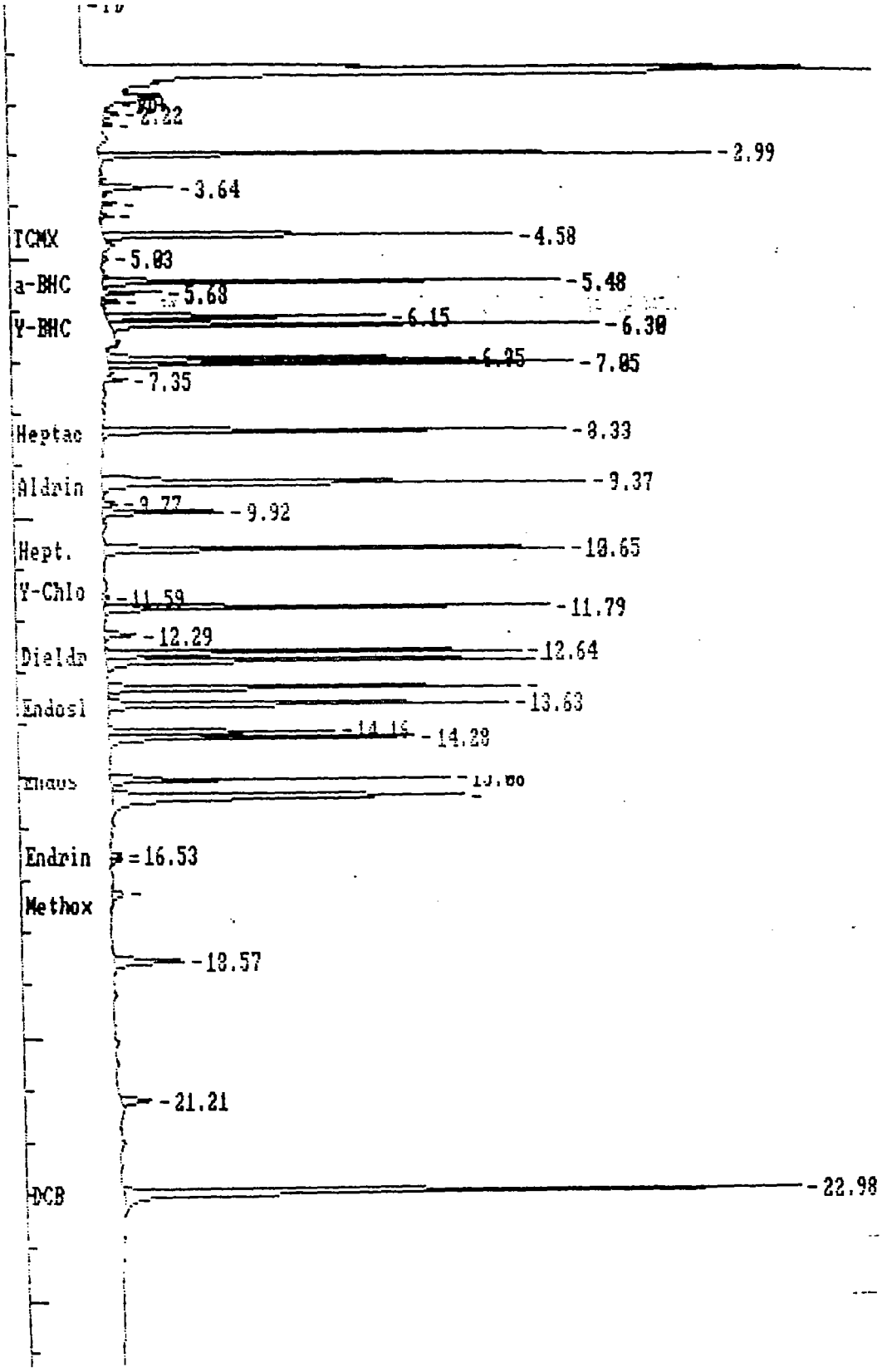
PEAK	RET	PEAK	CONCENTRATION in	NORMALIZED	AREA/	REF	% DELTA

4	3.641		0.0000	0.0000%	39485	9196	4.3	1			1.0000E-09
5	3.975		0.0000	0.0000%	7451	2010	3.7	2			1.0000E-09
6	4.208		0.0000	0.0000%	6679	1742	3.8	2			1.0000E-09
7	4.576	TCMX	74.0567	5.0493%	185768	51744	3.6	1	0	0	3.9865E-04
8	5.027		0.0000	0.0000%	3709	811	4.6	1			1.0000E-09
9	5.478	a-BHC	65.7701	4.4843%	181101	57811	3.1	2	0	0	3.6317E-04
10	5.678		0.0000	0.0000%	27091	7515	3.6	2			1.0000E-09
11	5.862		0.0000	0.0000%	8016	2148	3.7	1			1.0000E-09
12	6.146	B-BHC	81.9639	5.5884%	127119	35113	3.6	2	0	-.2710	6.4478E-04
13	6.296	Y-BHC	70.6420	4.8165%	205891	61624	3.3	2	0	-.2645	3.4310E-04
14	6.947	d-BHC	79.2188	5.4012%	156658	44720	3.5	2	0	0	5.0568E-04
15	7.047		0.0002	0.0000%	210666	58809	3.6	2			1.0000E-09
16	7.348		0.0000	0.0000%	10128	2755	3.7	1			1.0000E-09
17	8.333	Heptachlor	70.2786	4.7917%	229668	58510	3.9	1	0	-.2000	3.0600E-04
18	9.369	Aldrin	104.2797	7.1099%	284451	61167	4.7	2	0	-.1779	3.6660E-04
19	9.769		0.0000	0.0000%	8297	1759	4.7	2			1.0000E-09
20	9.920		0.0001	0.0000%	63870	15108	4.2	2			1.0000E-09
21	10.555	Hept. epox.	81.6317	5.5657%	227330	58042	3.9	1	0	0	3.5909E-04
22	11.590	Y-Chlordane	1.0542	0.0719%	3232	718	4.5	2	0	1.461	3.2611E-04
23	11.790	Endosulfan I	76.0523	5.1853%	223156	56263	4.0	2	0	0	3.4080E-04
24	12.291		0.0000	0.0000%	20257	4019	5.0	1			1.0000E-09
25	12.642	Dieldrin	64.3907	4.3902%	203325	52607	3.9	2	0	-.1319	3.1669E-04
26	12.792	4,4-DDE	79.4795	5.4190%	226145	54091	4.2	2	0	-.1303	3.5145E-04
27	13.310	Endrin	70.4885	4.8060%	210727	52221	4.0	1	0	-.1253	3.3450E-04
28	13.627	Endoslf II	79.3777	5.4121%	216478	50577	4.3	1	0	-.1224	3.6668E-04
29	14.162	4'4-DDD	64.9181	4.4262%	117240	28379	4.1	2	0	-.1177	5.5372E-04
30	14.273	Endrin ald	79.6160	5.4283%	180735	38513	4.7	2	0	-.1168	4.4051E-04
31	15.080	Endos sulf	79.3492	5.4101%	184039	42971	4.3	1	0	-.1106	4.3115E-04
32	15.414	DDT	129.9760	8.8619%	296076	44418	6.7	1	0	0	4.3899E-04
33	16.533	Endrin ket.	2.1486	0.1465%	6687	1362	4.9	2	0	0	3.2132E-04
34	16.633		0.0000	0.0000%	7327	1380	5.3	2			1.0000E-09
35	17.284	Methoxychlor	6.6598	0.4541%	10850	1432	7.6	1	0	-1.051	6.1380E-04
36	18.570		0.0001	0.0000%	55093	8744	6.3	1			1.0000E-09
37	21.209		0.0000	0.0000%	26562	3865	6.9	1			1.0000E-09
38	22.979	DCB	105.3289	7.1814%	468076	85087	5.5	1	0	0	2.2502E-04

TOTAL AMOUNT = 1466.6820

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:0C22D22.ATB
Data File = D:0C22D22.PTS Printed on 10-22-1995 at 21:59:27
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



PD-

403

***** EXTERNAL STANDARD TABLE *****

********** 10-22-1995 22:00:25 Version 5.1.5 **********

* Sample Name: 9546683msd Data File: D:PC22D22 *

* Date: 10-22-1995 21:27:35 Method: M:BPES-H 10-05-1995 10:26:41 # 367 *

* Interface: 1 Cycle#: 22 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	2.288		0.0000	0.0000%	8644	1325	6.5	1			1.0000E-09
2	2.422		0.0000	0.0000%	9565	1413	6.8	1			1.0000E-09
3	2.806		0.0000	0.0000%	2729	682	4.0	2			1.0000E-09
4	2.922		0.0000	0.0000%	6296	1125	5.6	2			1.0000E-09
5	3.039		0.0000	0.0000%	10039	1331	7.5	2			1.0000E-09
6	3.257		0.0000	0.0000%	6757	1309	5.2	2			1.0000E-09
7	3.540		0.0002	0.0000%	226395	78211	2.9	2			1.0000E-09
8	3.724		0.0000	0.0000%	11214	2656	4.2	2			1.0000E-09
9	4.091		0.0000	0.0000%	2627	809	3.2	1			1.0000E-09
10	4.492	TCMX	86.1011	5.7470%	196886	56456	3.5	1	0	0	4.3731E-04
11	4.876		0.0000	0.0000%	17950	4544	4.0	1			1.0000E-09
12	5.561		0.0000	0.0000%	18101	4624	3.9	2			1.0000E-09
13	5.695		0.0000	0.0000%	25703	7120	3.6	2			1.0000E-09
14	5.895		0.0000	0.0000%	5469	1330	4.1	2			1.0000E-09
15	6.212		0.0000	0.0000%	8794	1225	7.2	2			1.0000E-09
16	6.379		0.0000	0.0000%	4284	1001	4.3	2			1.0000E-09
17	6.947	a-BHC	68.1845	4.5511%	175345	59159	3.0	1	0	-.2398	3.8886E-04
18	7.432		0.0000	0.0000%	2316	513	4.5	1			1.0000E-09
19	7.615		0.0000	0.0000%	4281	1219	3.5	1			1.0000E-09
20	8.183	Y-BHC	74.7529	4.9895%	199828	66585	3.0	1	0	-.2036	3.7409E-04
21	8.634		0.0002	0.0000%	186464	52321	3.6	2			1.0000E-09
22	8.751	Heptachlor	79.8789	5.3316%	213873	60220	3.6	2	0	-.1904	3.7349E-04
23	9.118		0.0000	0.0000%	15105	3336	4.5	1			1.0000E-09
24	9.552	Aldrin	77.0625	5.1437%	182043	49459	3.7	1	0	0	4.2332E-04
25	10.588		0.0000	0.0000%	6375	1269	5.0	2			1.0000E-09
26	10.822	B-BHC	112.0845	7.4813%	172656	46714	3.7	2	0	-.1540	6.4918E-04
27	11.105		0.0000	0.0000%	22834	5004	4.4	2			1.0000E-09
28	11.356		0.0001	0.0000%	55562	14612	3.8	2			1.0000E-09
29	11.473	d-BHC	73.6977	4.9191%	144569	44006	3.3	2	0	0	5.0977E-04
30	11.907	Hept. epox.	83.8425	5.5962%	207288	57814	3.6	1	0	-.1400	4.0447E-04
31	12.709	Endosulf I	79.5264	5.3081%	209127	57056	3.7	1	0	-.1312	3.8028E-04
32	13.227	a-Chlordane									

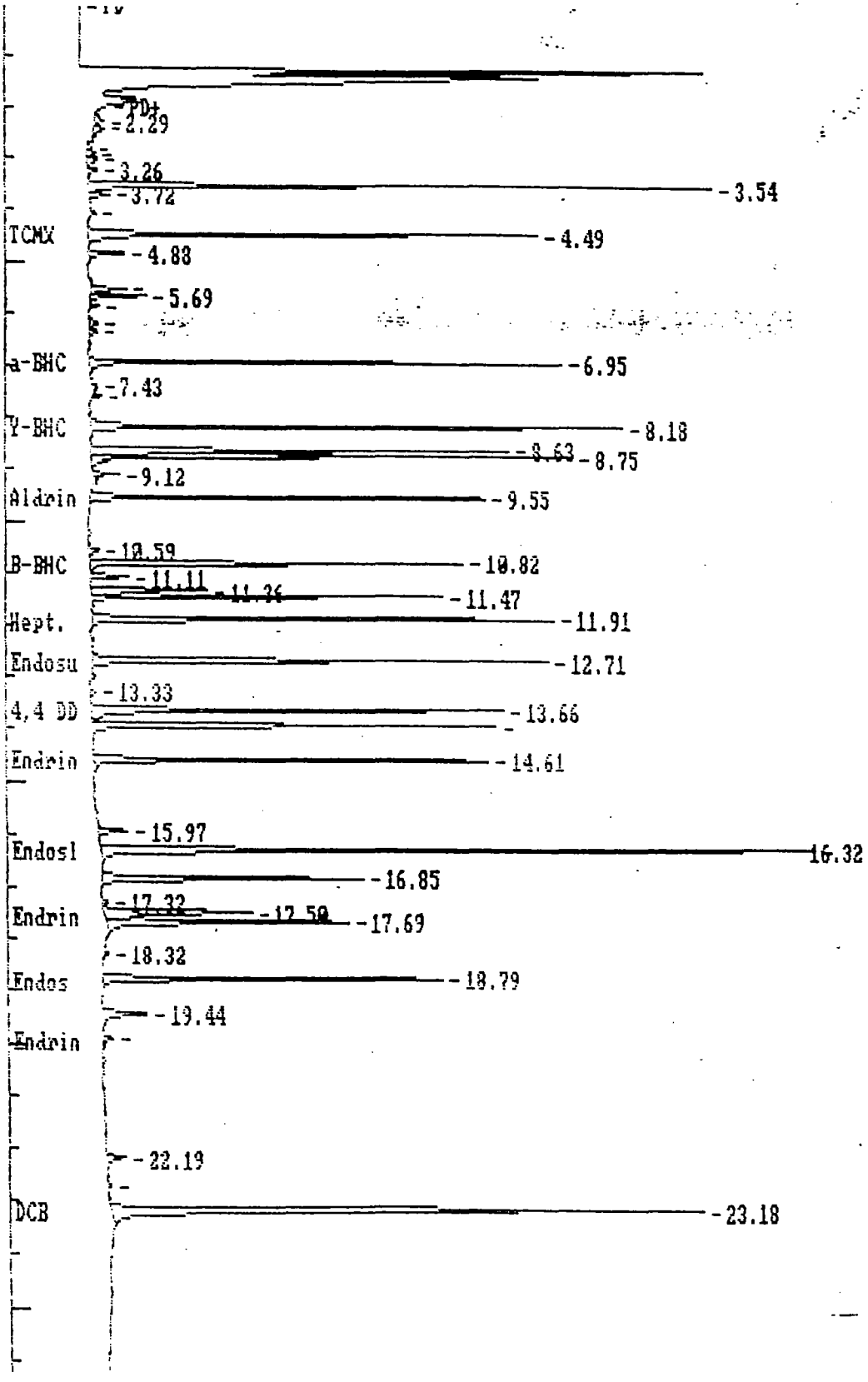
37	16.316	EndosIfII	159.8713	10.6709%	369477	89374	4.1	1	0	0	4.3270E-04
38	16.850	4,4 DDT	81.0713	5.4112%	132760	32825	4.0	1	0	0	6.1066E-04
39	17.318		0.0000	0.0000%	3945	770	5.1	1			1.0000E-09
40	17.502	Endrin ald	58.4416	3.9008%	99710	18442	5.4	2	0	-.2854	5.8612E-04
41	17.685		0.0001	0.0000%	141564	30392	4.7	2			1.0000E-09
42	18.320		0.0000	0.0000%	2664	614	4.3	1			1.0000E-09
43	18.788	Endos sulf	86.4856	5.7726%	169964	42549	4.0	1	0	-.0888	5.0885E-04
44	19.439	Methoxychl	26.7209	1.7835%	31283	5576	5.6	1	0	1.492	8.5415E-04
45	19.940	Endrin ket	2.4418	0.1630%	5945	1376	4.3	1	0	[illegible]	4.1071E-04
46	22.194		0.0000	0.0000%	14449	2486	5.8	1			1.0000E-09
47	22.712		0.0000	0.0000%	2551	529	4.8	1			1.0000E-09
48	23.180	DCB	111.1701	7.4202%	363842	74181	4.9	1	0	0	3.0554E-04

403

TOTAL AMOUNT = 1498.2036

GROUP NUMBER	GROUP AMOUNT	GROUP PERCENT

Areas, times, and heights stored in: D:PC22D22.ATB
Data File = D:PC22D22.PTS Printed on 10-22-1995 at 22:00:52
Start time: 0.00 min. Stop time: 30.00 min. Offset: 1 mv.
Full Range: 100 millivolts



METALS DATA PACKAGE

406

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
MW2-2933761	**95-54785**
Field Blank	**95-54784**

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: 1-26-96 Title: Laboratory Manager

EMSL

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

Project #: 95118886
Date Received: 11/28/95 17:00
Lab ID #: 95-0054785

Customer Project No. MW Sampling Bldg. 290

Sample Designation: #MW2-2933761

	Conc.	Unit
CLP METALS, mg/l:		
Silver	0.44	mg/l
Aluminum	0.36	mg/l
Arsenic	<0.0050	mg/l
Barium	0.074	mg/l
Beryllium	<0.0050	mg/l
Calcium	5.3	mg/l
Cadmium	<0.010	mg/l
Cobalt	<0.050	mg/l
Chromium	<0.050	mg/l
Copper	<0.050	mg/l
Iron	1.1	mg/l
Mercury	<0.0010	mg/l
Potassium	<3.0	mg/l
Magnesium	4.7	mg/l
Manganese	0.030	mg/l
Sodium	11	mg/l
Nickel	<0.050	mg/l
Lead	0.0015	mg/l
Antimony	<0.0050	mg/l
Selenium	<0.0050	mg/l
Thallium	<0.0020	mg/l
Vanadium	<0.050	mg/l
Zinc	0.10	mg/l

EMSL

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

Project #: 95118886
Date Received: 11/28/95 17:00
Lab ID #: 95-0054784

Customer Project No. MW Sampling Bldg. 290

Sample Designation: Field Blank

	Conc.	Unit
CLP METALS, mg/l:		
Silver	0.11	mg/l
Aluminum	<0.20	mg/l
Arsenic	<0.0050	mg/l
Barium	<0.020	mg/l
Beryllium	<0.0050	mg/l
Calcium	<0.40	mg/l
Cadmium	<0.010	mg/l
Cobalt	<0.050	mg/l
Chromium	<0.050	mg/l
Copper	<0.050	mg/l
Iron	<0.10	mg/l
Mercury	<0.0010	mg/l
Potassium	<3.0	mg/l
Magnesium	<0.20	mg/l
Manganese	0.032	mg/l
Sodium	<0.40	mg/l
Nickel	<0.050	mg/l
Lead	0.0028	mg/l
Antimony	<0.0050	mg/l
Selenium	<0.0050	mg/l
Thallium	<0.0020	mg/l
Vanadium	<0.050	mg/l
Zinc	0.027	mg/l

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					
	True	Found	%R (1)	True	Found	%R (1)	Found	%R (1)	M
Aluminum	**2.00**	**2.07**	**103.5**	**2.00**	**2.06**	**103**			**P**
Antimony	**0.05**	**0.0522**	**104**	**0.05**	**0.0502**	**100**			**F**
Arsenic	**0.04**	**0.04221**	**105**	**0.04**	**0.04220**	**105**			**F**
Barium	**2.00**	**2.04**	**102**	**2.00**	**2.05**	**102.5**			**P**
Beryllium	**2.00**	**2.04**	**102**	**2.00**	**1.97**	**98**			**P**
Cadmium	**2.00**	**2.04**	**102**	**2.00**	**2.04**	**102**			**P**
Calcium	**2.00**	**2.04**	**102**	**2.00**	**2.04**	**102**			**P**
Chromium	**2.00**	**2.05**	**102.5**	**2.00**	**2.03**	**101.5**			**P**
Cobalt	**2.00**	**2.04**	**102**	**2.00**	**1.98**	**99**			**P**
Copper	**2.00**	**2.03**	**101.5**	**2.00**	**2.07**	**103**			**P**
Iron	**2.00**	**2.03**	**101.5**	**2.00**	**2.04**	**102**			**P**
Lead	**0.02**	**0.0206**	**103**	**0.02**	**0.0209**	**104**			**F**
Magnesium	**2.00**	**2.05**	**102.5**	**2.00**	**2.06**	**103**			**P**
Manganese	**2.00**	**2.04**	**102**	**2.00**	**2.01**	**100.5**			**P**
Mercury	**0.002**	**0.00205**	**102**	**0.0-02**	**0.00208**	**104**			**CV**
Nickel	**2.00**	**2.03**	**101.5**	**2.00**	**2.03**	**101.5**			**P**
Potassium	**2.00**	**1.82**	**91**	**2.00**	**1.39**	**69.5**			**P**
Selenium	**0.02**	**0.0191**	**95**	**0.02**	**0.0197**	**98**			**F**
Silver	**2.00**	**2.05**	**102.5**	**2.00**	**2.00**	**100**			**P**
Sodium	**2.00**	**2.06**	**103**	**2.00**	**2.10**	**105**			**P**
Thallium	**0.04**	**0.04254**	**106**	**0.04**	**0.04299**	**107**			**F**
Vanadium	**2.00**	**2.04**	**102**	**2.00**	**2.02**	**101**			**P**
Zinc	**2.00**	**2.04**	**102**	**2.00**	**2.06**	**103**			**P**
Cyanide									

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

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	**23**		**17**						**<0.200**		**P**
Antimony	**1.1**		**1.7**						**<0.005**		**F**
Arsenic	**0.57**		**0.32**						**<0.005**		**F**
Barium	**1**		**0.09**						**<0.020**		**P**
Beryllium	**0.05**		**0.4**						**<0.005**		**P**
Cadmium	**1**		**1**						**<0.010**		**P**
Calcium	**6**		**4**						**<0.400**		**P**
Chromium	**2**		**2**						**<0.050**		**P**
Cobalt	**1**		**2**						**<0.050**		**P**
Copper	**7**		**6**						**<0.050**		**P**
Iron	**3**		**0.08**						**<0.050**		**P**
Lead	**0.3**		**0.4**						**<0.001**		**F**
Magnesium	**26**		**15**						**<0.100**		**P**
Manganese	**0.5**		**0.02**						**<0.020**		**P**
Mercury	**0.024**		**0.16**						**<0.001**		**CV**
Nickel	**4**		**0.15**						**<0.050**		**P**
Potassium	**383**		**889**						**<3.00**		**P**
Selenium	**0.6**		**1.3**						**<0.005**		**F**
Silver	**33**		**1**						**<0.050**		**P**
Sodium	**57**		**48**						**<0.400**		**P**
Thallium	**0.66**		**0.24**						**<0.005**		**F**
Vanadium	**1**		**0.91**						**<0.050**		**P**
Zinc	**4**		**14**						**<0.020**		**P**
Cyanide											

SPIKE SAMPLE RECOVERY

Lab Name: **EMSL Analytical** Contract: _____ Lab Sample No.: **95-55084, 95-55120, 95-54890, 95-54785**

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**	**2.61**		**0.281**		**2.0**	**116**		**P**
Antimony	**75-125**	**0.063**		**0.0005**		**0.05**	**125**		**F**
Arsenic	**75-125**	**0.04593**		**0.00343**		**0.04**	**106**		**F**
Barium	**75-125**	**2.12**		**0.011**		**2.0**	**105**		**P**
Beryllium	**75-125**	**2.08**		**0.001**		**2.0**	**104**		**P**
Cadmium	**75-125**	**2.2**		**0.003**		**2.0**	**110**		**P**
Calcium	**75-125**	**49.2**		**47.2**		**2.0**	**100**		**P**
Chromium	**75-125**	**2.12**		**0.012**		**2.0**	**105**		**P**
Cobalt	**75-125**	**2.22**		**0.003**		**2.0**	**111**		**P**
Copper	**75-125**	**2.13**		**0.01**		**2.0**	**106**		**P**
Iron	**75-125**	**2.3**		**0.096**		**2.0**	**110**		**P**
Lead	**75-125**	**0.0246**		**0.0016**		**0.02**	**115**		**F**
Magnesium	**75-125**	**25.7**		**23.5**		**2.0**	**110**		**P**
Manganese	**75-125**	**2.15**		**0.015**		**2.0**	**107**		**P**
Mercury	**75-125**	**0.0021**		**0.0**		**0.002**	**105**		**CV**
Nickel	**75-125**	**2.16**		**0.034**		**2.0**	**106**		**P**
Potassium	**75-125**	**4.86**		**2.6**		**2.5**	**90**		**P**
Selenium	**75-125**	**0.0111**		**0.0012**		**0.01**	**99**		**F**
***Silver**	**75-125**	**0.6**		**0.001**		**2.0**	**30**		**P**
Sodium	**75-125**	**72.5**		**70.8**		**2.0**	**85**		**P**
Thallium	**75-125**	**0.0478**		**0.0004**		**0.05**	**95**		**F**
Vanadium	**75-125**	**2.24**		**0.003**		**2.0**	**112**		**P**
Zinc	**75-125**	**2.222**		**0.067**		**2.0**	**108**		**P**
Cyanide									

Comments: _____

DUPLICATES

Lab Name: **EMSL ANALYTICAL** Contract: _____ Lab Sample No.: **95-55084, 95-55120, 95-54890, 95-54785**

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%**	**0.288**		**0.278**		**5.0**		**P**
Antimony	**+/-20%**	**0.0025**		**0.0025**		**0.0**		**F**
Arsenic	**+/-20%**	**0.0025**		**0.0025**		**0.0**		**F**
Barium	**+/-20%**	**0.011**		**0.011**		**0.0**		**P**
Beryllium	**+/-20%**	**0.001**		**0.001**		**0.0**		**P**
Cadmium	**+/-20%**	**0.003**		**0.003**		**0.0**		**P**
Calcium	**+/-20%**	**46.8**		**47.5**		**1.5**		**P**
Chromium	**+/-20%**	**0.012**		**0.012**		**0.0**		**P**
Cobalt	**+/-20%**	**0.003**		**0.003**		**0.0**		**P**
Copper	**+/-20%**	**0.01**		**0.01**		**0.0**		**P**
Iron	**+/-20%**	**0.096**		**0.096**		**0.0**		**P**
Lead	**+/-20%**	**0.00075**		**0.00075**		**0.0**		**F**
Magnesium	**+/-20%**	**23.9**		**23.1**		**3.0**		**P**
Manganese	**+/20%**	**0.015**		**0.015**		**0.0**		**P**
Mercury	**+/-20%**	**0.001**		**0.001**		**0.0**		**CV**
Nickel	**+/-20%**	**0.034**		**0.034**		**0.0**		**P**
Potassium	**+/-20%**	**2.6**		**2.6**		**0.0**		**P**
Selenium	**+/-20%**	**0.005**		**0.005**		**0.0**		**F**
Silver	**+/-20%**	**0.001**		**0.001**		**0.0**		**P**
Sodium	**+/-20%**	**70.3**		**71.2**		**1.0**		**P**
Thallium	**+/-20%**	**0.001**		**0.001**		**0.0**		**F**
Vanadium	**+/-20%**	**0.003**		**0.003**		**0.0**		**P**
Zinc	**+/-20%**	**0.067**		**0.067**		**0.0**		**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**	**2.34**	**117**				**80-120%**	
Antimony	**0.050**	**0.0536**	**107**				**80-120%**	
Arsenic	**0.040**	**0.04421**	**110**				**80-120%**	
Barium	**2.00**	**2.19**	**109**				**80-120%**	
Beryllium	**2.00**	**2.16**	**108**				**80-120%**	
Cadmium	**2.00**	**2.37**	**118**				**80-120%**	
Calcium	**2.00**	**2.37**	**118**				**80-120%**	
Chromium	**2.090**	**2.23**	**107**				**80-120%**	
Cobalt	**2.00**	**2.0**	**110**				**80-120%**	
Copper	**2.00**	**2.24**	**112**				**80-120%**	
Iron	**2.00**	**2.21**	**110**				**80-120%**	
Lead	**0.02**	**0.0232**	**116**				**80-120%**	
Magnesium	**2.00**	**2.32**	**116**				**80-120%**	
Manganese	**2.00**	**2.20**	**110**				**80-120%**	
Mercury	**0.002**	**0.0021**	**105**				**80-120%**	
Nickel	**2.00**	**2.27**	**113**				**80-120%**	
Potassium	**5.00**	**4.86**	**97**				**80-120%**	
***Selenium**	**0.010**	**0.0121**	**121**				**80-120%**	
***Silver**	**2.0**	**0.660**	**33**				**80-120%**	
Sodium	**2.00**	**2.37**	**118**				**80-120%**	
Thallium	**0.05**	**0.0524**	**105**				**80-120%**	
Vanadium	**2.00**	**2.17**	**108**				**80-120%**	
Zinc	**2.00**	**2.33**	**116**				**80-120%**	
Cyanide								

Form IX

Q. C. Report No. _____

ICP SERIAL DILUTIONS

LAB NAME EMSL CASE NO. _____

DATE 1/96 Sample No. 54785

Lab Sample ID No. _____

Units: ug/L

Matrix aqueous

Sample 54785 1.2

Compound	Initial Sample Concentration(I)	Serial Dilution[1] Result(S)	% Difference[2]
Metals:			
1. Aluminum	0.362	0.1448	60
2. Antimony			
3. Arsenic			
4. Barium	0.074	0.0326	60
5. Beryllium	0.001	0.00012	88
6. Cadmium	0.0026	0.0004	85
7. Calcium	5.83	2.63	55
8. Chromium			NR
9. Cobalt	0.005	0.00058	88
10. Copper	0.004	0.0082	105
11. Iron	1.08	0.488	54
12. Lead			
13. Magnesium	5.23	2.35	55
14. Manganese			NR
15. Nickel	0.012	0.004	67
16. Potassium	5.65	0.472	92
17. Selenium			
18. Silver	0.443	0.0206	95
19. Sodium	124	5.55	55
20. Thallium			
21. Vanadium			NR
22. Zinc	0.101	0.0465	54
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. _____

Check Sample I.D. _____

DATE 1/96 Check Sample Source _____

Units: ug/L

Compound	Control Limits[1] Mean	Control Limits[1] Std. Dev.	True[2]	Initial Observed	Initial %R	Final Observed	Final %R
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium			0.300	0.316	105	0.298	99
5. Beryllium			0.100	0.102	102	0.094	94
6. Cadmium			0.300	0.321	107	0.310	103
7. Calcium							
8. Chromium			0.300	0.292	97	0.290	97
9. Cobalt			0.300	0.302	101	0.302	101
10. Copper			0.300	0.266	87	0.262	87
11. Iron							
12. Lead							
13. Magnesium							
14. Manganese			0.200	0.190	95	0.182	91
15. Mercury							
16. Nickel			0.500	0.288	96	0.288	96
17. Potassium							
18. Selenium							
19. Silver			0.300	0.302	101	0.283	94
20. Sodium							
21. Thallium							
22. Vanadium			0.300	0.307	102	0.298	99
23. Zinc			0.300	0.285	95	0.266	87
Other:							

[1] Mean value based on n = _____.

[2] True value of EPA ICP Interference Check Sample or contractor standard.

Revision 0
Date September 1986

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

416

Lab Name: EMSL Contract: _____

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

ICP ID Number: _____ Date: _____

Analyte	Wavelength (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	V
Aluminum	308.20					0.0082
Antimony	206.84				0.0022	-0.0049
Arsenic	193.70	0.0058				0.0120
Barium	493.4					
Beryllium	313.04					0.0019
Cadmium	228.80					
Calcium	317.93					
Chromium	267.72					0.0093
Cobalt	228.62					
Copper	224.75					
Iron	259.94			-0.0017		
Lead	220.30	0.0011				-0.0037
Magnesium	279.08					
Manganese	257.61					
Mercury						
Nickel	231.60					
Potassium	766.					
Selenium	196.03			0.0002		-0.0022
Silver	328.07					
Sodium	588.99			0.0012		
Thallium	190.80					0.0038
Vanadium	292.40					
Zinc	213.86					

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY) 417

Lab Name: EMSL Contract: _____

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

ICP ID Number: _____ Date: _____

Analyte	Wavelength (nm)	Interelement Correction Factors for: Mn	Mo	Ni	Cr	Cu
Aluminum			0.0155			
Antimony				0.0008	0.0158	
Arsenic			0.0013	0.0007	0.0016	0.0003
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium				0.0003		
Cobalt						
Copper			0.0005	0.0109		
Iron					0.0037	
Lead		-0.0024	0.0013			-0.0002
Magnesium		-0.003				
Manganese						
Mercury						
Nickel			-0.0018			
Potassium						
Selenium			-0.0168			
Silver		0.001				
Sodium						
Thallium		0.0021				
Vanadium			0.0014			
Zinc				0.0035		0.0035

Comments:

_____

_____

_____

_____

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

416

Lab Name: EMSL Contract: _____

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

ICP ID Number: _____ Date: _____

Analyte	Wavelength (nm)	Interelement Correction Factors for: Ba	Pb	Co	_	_
Aluminum				0.0002		
Antimony						
Arsenic						
Barium			0.0025			
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt		0.0011				
Copper				0.0004		
Iron						
Lead				0.0010		
Magnesium						
Manganese						
Mercury						
Nickel				0.0004		
Potassium						
Selenium				-0.0067		
Silver						
Sodium						
Thallium				0.0004		
Vanadium						
Zinc						

Comments:

GENERAL CHEMISTRY ANALYSIS DATA PACKAGE

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

Project #: 95118886
Date Received: 11/28/95 17:00

Customer Project No. MW Sampling Bldg.290

The following results are for Total Cyanide

Lab #	Conc.	Unit	Client Designation
95 0054785	<0.010	mg/l	MW2-2933761

BLANKS

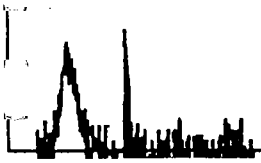
Lab Name: **EMSL Analytical** Contract: _____

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**		



EMSL

SPIKE SAMPLE RECOVERY

Lab Name: **EMSL Analytical** Contract: _____ Lab Sample No.: **95-54782**

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%**	**0.176**		**0**		**0.18**	**98**		

Comments: _____

DUPLICATES

Lab Name: **EMSL ANALYTICAL** Contract: _____ Lab Sample No.: **95-54782**

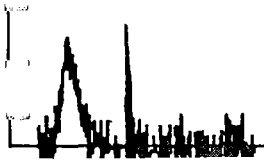
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

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**		



EMSL

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**	**0.164**	**89**				**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 Brown

Laboratory Manager (as defined in N.J.A.C. 7:18)