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SITE: Davis Liquid

BREAK: 3.2

OTHER: r

VOLUME 1

PRIVATE WELL

LABORATORY RESULTS

For

Davis Liquid Site

REMI

**PERFORMANCE OF REMEDIAL RESPONSE
ACTIVITIES AT UNCONTROLLED
HAZARDOUS WASTE SITES**

U.S. EPA CONTRACT NO. 68-01-6939

CAMP DRESSER & MCKEE INC.

ROY F. WESTON, INC.

WOODWARD-CLYDE CONSULTANTS

CLEMENT ASSOCIATES, INC.

ICF INCORPORATED

C. C. JOHNSON & ASSOCIATES, INC.

VOLUME 1
PRIVATE WELL
LABORATORY RESULTS
For
Davis Liquid Site

EPA Contract No.: 68-01-6939/117/WP1

Work Assignment No.: 18-I1107

Document No.: 117-WP1-RT-BJMQ-1

DAVIS LIQUID SITE
Smithfield, Rhode Island

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SERIES: Private Wells

<u>Case Number</u>	<u>Volume</u>
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3969	3 4
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INTRODUCTION

This volume is apart of a series that presents all validated organic laboratory analyses results pertaining to the private well sampling conducted at the Davis Liquid Site in Smithfield, Rhode Island. The series is a collection of five different cases in which each case is contained in two volumes. The first case, Number 3633, was received by Radian Laboratory on December 7, 1984 and included 14 samples. The second case, Number 3969, was received by GCA Corporation on March 1, 1985 and included 15 samples. The third case, Number 3981, was received by GCA Corporation on March 8, 1985 and included 15 samples. The fourth case, Number 4005, was received by ChemTech on March 13, 1985 and included 10 private well samples. The final case, Number 4124, was received by GCA Corporation on April 5, 1985 and included 10 private well samples. This volume contains case Number 3633.

In addition to the lab results, two summary tables have been included. Table 1 is a list of each case number with the corresponding Sample Management Office (SMO) organic traffic numbers. Table 2 contains a summary of the validated lab analysis reports from the case contained in this volume. At the top of the summary sheets, the well location and resident are matched to their respective SMO traffic numbers.

Organic analyses results from each case are each contained in bound volumes marked accordingly on the covers. These volumes have been tabbed at the beginning of each sample by their sample SMO traffic numbers for easy reference. The first page of results, at the tab are the volatile compounds, the second page contains the semi-volatile compounds and the third page contains the pesticide/PCB compounds. These three pages contain the compounds on the Hazardous Substances List (HSL). Immediately following are two pages which allow write-in space for an additional 10 volatile compounds and 20 semi-volatile compounds which may be matched through a mass spectral library search. They are listed as tentatively present. The rest of the volume consists of the lab QA/QC program.

NOTE:

The validation process has not yet been completed for the fourth and fifth cases, numbers 4005 and 4124. Upon receiving validation, these two cases will be added to this collection of data making this series on private well data complete. Validation completion is expected by mid-September, 1985.

TABLE 1

PRIVATE WELLS

CASE #3633 AB 160
AB 161
AB 162
AB 163
AB 164
AB 166
AB 167
AB 168
AB 169
AB 170
AB 171
AB 172
AB 173
AB 147

TABLE 2

WF

Volatile Organics Analysis

CURNEY KINNER TRIP BLANK REGGN Hayes Field BLANK Crouse Crouse Dup. Smith Field BLANK

Sample ID	EPA SMO	01	02	03	04	05	06	07	08	09	10
CAS Number		AB 160	AB 170	AB 161	AB 162	AB 163	AB 164	AB 166	AB 167	AB 168	AB 147
74-87-3	Chloromethane	UT	UT	UT	UT	UT	UT	UT	UT	R	
74-83-9	Bromomethane										
75-01-4	Vinyl Chloride										
75-00-3	Chloroethane										
75-09-2	Methylene Chloride	2000 UT	2000 UT	2000 UT	2000 UT	2000 UT	R	2000 UT	2000 UT		R
67-64-1	Acetone	430 UT	430 UT	430 UT	430 UT	430 UT		430 UT			
75-15-0	Carbon Disulfide	UT	UT	UT	UT	UT		UT			
75-35-4	1, 1-Dichloroethene										
75-34-3	1, 1-Dichloroethane										
156-60-5	Trans-1, 2-Dichloroethene										
67-66-3	Chloroform	25 UT	25 UT	R	R	UT	R	25 UT	25 UT		5 UT
107-06-2	1, 2-Dichloroethane	UT	UT		UT	UT	R	UT			
78-93-3	2-Butanone	R	50 UT	R	R	50 UT	R	0	R		
71-55-6	1, 1, 1-Trichloroethane	25 UT	25 UT	25 UT	UT	25 UT	25 UT	25 UT	25 UT		
56-23-5	Carbon Tetrachloride	UT	UT	UT		UT	UT	UT	UT		
108-05-4	Vinyl Acetate										
75-27-4	Bromodichloromethane										
79-34-5	1, 1, 2, 2-Tetrachloroethane							18	14	5	
78-87-5	1, 2-Dichloropropane										
10061-02-6	Trans-1, 3-Dichloropropene										
79-01-6	Trichloroethene			5 UT	3 UT						
124-48-1	Dibromochloromethane										
79-00-5	1, 1, 2-Trichloroethane										
71-43-2	Benzene										
10061-01-5	cis-1, 3-Dichloropropene										
110-75-8	2-Chloroethylvinylether										
75-25-2	Bromoform										
591-78-6	2-Hexanone										10 UT
108-10-1	4-Methyl-2-Pentanone										
127-18-4	Tetrachloroethene										
108-88-3	Toluene										
108-90-7	Chlorobenzene										
100-41-4	Ethylbenzene										
100-42-5	Styrene										
	Total Xylenes							20	15		

10700 0100 = 0 10 5 41 0 10 38 29 20 5

Semivolatile Organics Analysis

Sample ID		PARNEY	KINNEAR	TRIP BLANK	REGAN	HAYES	FIELD BLANK	CROUSE	CROUSE DUP	SMITH	ILL BLANK
EPA SMO		01	02	03	04	05	06	07	08	09	10
CAS Number		AB160	AB170	AB161 ^{TK}	AB162	AB163	AB164	AB166	AB167	AB168	AB147
62-75-9	N-Nitrosodimethylamine										
108-95-2	Phenol						10 J				
62-53-3	Aniline										
111-44-4	bis(2-Chloroethyl)Ether										
95-57-8	2-Chlorophenol										
541-73-1	1,3-Dichlorobenzene										
106-46-7	1,4-Dichlorobenzene										
100-51-6	Benzyl Alcohol										
95-50-1	1,2-Dichlorobenzene										
95-48-7	2-Methylphenol										
39638-32-9	bis(2-chloroisopropyl)Ether										
106-44-5	4-Methylphenol										
621-64-7	N-Nitroso-Di-n-Propylamine										
67-72-1	Hexachloroethane										
98-95-3	Nitrobenzene										
78-59-1	Isophorone										
88-75-5	2-Nitrophenol										
105-67-9	2,4-Dimethylphenol										
65-85-0	Benzoic Acid										
111-91-1	bis(2-Chloroethoxy)Methane										
120-83-2	2,4-Dichlorophenol										
120-82-1	1,2,4-Trichlorobenzene										
91-20-3	Naphthalene										
106-47-8	4-Chloroaniline										
87-68-3	Hexachlorobutadiene										
59-50-7	4-Chloro-3-Methylphenol										
91-57-6	2-Methylnaphthalene										
77-47-4	Hexachlorocyclopentadiene										
88-06-2	2,4,6-Trichlorophenol										
95-95-4	2,4,5-Trichlorophenol										
91-58-7	2-Chloronaphthalene										
88-74-4	2-Nitroaniline										
131-11-3	Dimethyl Phthalate										
208-96-8	Acenaphthylene										
99-09-2	3-Nitroaniline										

Total 10/21

semivolatile organics
 CARNLEY KINNAR TRIP BLANK KELAN HAYES HARRIS HARRIS DUP SMITH FILL BLANK

Sample ID	01	02	03	04	05	06	07	08	09	10
EPA										
SMO	AB160	AB170	AB161 ^{NR}	AB162	AB163	AB164	AB166	AB167	AB168	AB167
83-32-9	Acenaphthene									
51-28-5	2,4-Dinitrophenol									
100-02-7	4-Nitrophenol						R			
132-64-9	Dibenzofuran									
121-14-2	2,4-Dinitrotoluene									
606-20-2	2,6-Dinitrotoluene									
84-66-2	Diethylphthalate									
7005-72-3	4-Chlorophenyl-phenylether									
86-73-7	Fluorene									
100-01-6	4-Nitroaniline									
534-52-1	4,6-Dinitro-2-Methylphenol									
86-30-6	N-Nitrosodiphenylamine (1)									
101-55-3	4-Bromophenyl-phenylether									
118-74-1	Hexachlorobenzene									
87-86-5	Pentachlorophenol									
85-01-8	Phenanthrene									
120-12-7	Anthracene									
84-74-2	Di-n-Butylphthalate	10	K	R	10J, B	10J, B	R	R	R	R
206-44-0	Fluoranthene				R	R			10K	
92-87-5	Benzidine						R			
129-00-0	Pyrene				10J				10K	
85-68-7	Butylbenzylphthalate									
91-94-1	3,3'-Dichlorobenzidine									
56-55-3	Benzo(a)Anthracene								10K	
117-81-7	bis(2-Ethylhexyl)Phthalate	100 UT	R		R	100	R	100 UT	100 J	
218-01-9	Chrysene								10K	
117-84-0	Di-n-Octyl Phthalate		10K							
205-99-2	Benzo(b)Fluoranthene								10K	
207-08-9	Benzo(k)Fluoranthene								10K	
50-32-8	Benzo(a)Pyrene								10K	
193-39-5	Indeno(1,2,3-cd)Pyrene									
53-70-3	Dibenz(a,h)Anthracene									
191-24-2	Benzo(g,h,i)Perylene									
205-99-2	CYCLOHEXANOL							TP		
121-14-2	1,2-DICHLOROBENZENE							TP		

10 10 10 70 70

Pesticide/PCBs Analysis

Sample ID	Pesticide/PCBs Analysis									
	CARNEY	KINKAR	TRIP BLANK	REGAN	HAYES	FIELD BLANK	CRASE	CRASE DUL.	SMITH	FIELD BLANK
EPA SMO	01	02	03	04	05	06	07	08	09	10
CAS Number	AB160	AB170	AB161 ⁹⁹	AB162	AB163	AB164	AB166	AB167	AB168	AB147
319-84-8	Alpha-BHC						UT			
319-85-7	Beta-BHC									
319-86-8	Delta-BHC									
58-89-9	Gamma-BHC (Lindane)									
76-44-8	Heptachlor									
309-00-2	Aldrin									
1024-57-3	Heptachlor Epoxide									
959-98-8	Endosulfan I									
60-57-1	Dieldrin									
72-55-9	4,4'-DDE									
72-20-8	Endrin									
33213-65-9	Endosulfan II									
72-64-8	4,4'-DDD									
7421-93-4	Endrin Aldehyde									
1031-07-8	Endosulfan Sulfate									
50-29-3	4,4'-DDT									
72-43-5	Methoxychlor									
53494-70-6	Endrin Ketone									
57-74-9	Chlordane									
8001-35-2	Toxaphene									
12674-11-2	Aroclor-1018									
11104-28-2	Aroclor-1221									
11141-16-5	Aroclor-1232									
53469-21-9	Aroclor-1242									
12672-29-6	Aroclor-1248									
11097-69-1	Aroclor-1254									
11096-82-5	Aroclor-1260									
112-11-1	MURAN, TETRAC... MURAN, TETRAC...	SEE		SEE	SEE					TP
124-11-1	OCTANOIC ACID	ATM/HED		AMZ/CHD	AMZ/CHD					TP
113-11-1	DODECANOIC ACID	INSETS		INSETS	INSETS					TP

SEE
AMZ/CHD

SEE
AMZ/CHD

SAMPLE NUMBER:
A0160

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

accepted 7/10/66

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/KG
29535-77	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	TP 248
931-17-9	1,2-CYCLOHEXANEDIOL	ABN	553	TP 113
200-55-3	BENZO[ANTHRA]CENE	YBN	1632	9
4316-65-8	1-HEXENE, 3,5,5-TRIMETHYL-	ADN	1648	TP 11
148-55-0	PERYLENE	ABN	1867	TP 19
6655-21-9	HYDROCINNAMICACID, P-METHOXY-, DELTA.-ME.	ADN	1901	TP 14

No Volatile Compound Detected

SAMPLE NUMBER:
AB162

ORGANIC ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

IAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L OR UG)
1	ETHENE, TETRACHLORO	ABN	231	157
2 02103-31	HEPTANE, 4-ETHYL-2,2,6,6-TETRAMETHYL-	ABN	447	19
3 2953571-2	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	19
4 931-17-9	1,2-CYCLOHEXANEDIOL	ABN	554	19
5	PHENOL, 4-NITRO	ABN	995	19
6	PHENOL, PENTACHLORO	ABN	1102	19
7 0555-24-9	HYDROCINNAMICACID, P-METHOXY-, BETA.-ME	ABN	1908	19
8 7116-86-1	1-HEXENE, 5,5-DIMETHYL-	ABN	2019	19
9. 598-754	2-nitrophenol, 3-methyl-	V	336	17

see p. 15
5/10/85

0075

SAMPLE NUMBER:
ADJ63

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

AS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L OR UG/G)
1 24533-17-0	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	523	} TP 282 77 25 9
2 031-17-9	1,2-CYCLOHEXANEDIOL	ABN	555	
3 1072-16-8	OCTANE, 2,7-DIMETHYL-	ABN	1041	
4 4032-36-4	HEPTANE, 2,3-DIMETHYL-	ABN	1649	

No Volatile compounds detected

all fine 5/10/85

0096

SAMPLE NUMBER:
00164

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

*an list
1/10/11*

IS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (%/L OR UG/L)
1 2858-17-0	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	523	} TP 143/17/19
2 431-17-9	1,2-CYCLOHEXANEDIOL	ABN	555	
3 141-14-0	5-OCTEN-1-OL, 3,7-DIMETHYL-, PROPANOATE	ABN	1848	
4 435-67-1	BENZENE, (1-METHOXY-1-METHYLETHYL)-	ABN	2026	

No Volatile compounds detected

SAMPLE NUMBER:
08166

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L OR UG/G)
1 24533-77-0	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ADN	523	} TP 229 100 21 28
2 931-17-4	1,2-CYCLOHEXANEDIOL	ADN	554	
3 39163-48-4	1-HEXANAMINE, 2-ETHYL-, N-(2-ETHYLHEXYL)	ADN	1817	
4 13377-56-0	1H-PYRAZOLO[4,3-D]PYRIMIDIN-7-AMINE	ADN	1905	
5 272-16-2	1,2-BENZISOTHIAZOLE	ADN	2026	
6 1115-11-3	2-BUTENAL, 2-METHYL-	ADN	2260	

No compounds Detected ✓

all for
5/10/80

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L) OR UG/g
1 111-71-7	HEPTANOL	ABN	337	} TP 41 37 31 13 4
2 7233-00-3	1-PROPENE, 2,3,3-TRICHLORO-	ABN	436	
3 1071-51-4	HEXANE, 2,2,5,5-TETRAMETHYL-	ABN	449	
4 29535-71-9	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	525	
5 931-17-4	1,2-DICHLOROETHANOL	ABN	557	
6		ABN	651	
7		ABN	990	
8		ABN	1209	1
9		ABN	1217	
10 30684-26-1	1-(4-AMINO-2-PHENYL)-HYDROCHLORIDE	ABN	1553	} TP 4
11 62185-56-2	HEXANE, 2,3,3-TRIMETHYL-	ABN	1652	
12 55760-14-0	CYCLOBUTANECARBONITRILE, 1-METHYL-2-(1	ABN	1778	
13 2416-30-2	2-PROPANOL, 1-(1-(TERT-BUTYLPHENOXY))-	ABN	1910	
14 765-32-1	DILINE, 1-(1-METHYLPHENYL)-	ABN	2029	

No compounds detected ✓

acc for 5/10/85

SAMPLE NUMBER:
00170

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

IAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/g
1 4730-227	2-HEPTANOL, 6-METHYL-	ADN	334	72
2 2233-003	1-PROPENE, 3,3,3-TRICHLORO-	ADN	433	15
3 26583-770	CYCLOHEXANOL, 4-CHLORO- - TRANS-	ADN	522	10
4 431-174	1,2-CYCLOHEXANEDIOL	ADN	553	80
5 41237-484	FURAN, 2,5-DIETHYLTETRAHYDRO-	ADN	716	
6 53907-593	2-PENTENE, 3-ETHYL-4,4-DIMETHYL-	ADN	1850	
7 15113-724	BICYCLO[2.2.1]HEPT-2-EN-7-OL, 7-(4-MET	ADN	1904	
8 272-10-2	1,2-BENZISOTHIAZOLE	ADN	2025	1

No volatile compounds detected

all for
5/10/83

WELLS

Volatile Organics Analysis
 Leonard Russell Russell Trip
 Dup Blank

CAS Number	Sample ID EPA SMO	11	12	13	14									
74-87-3	Chloromethane	UT												
74-83-9	Bromomethane													
75-01-4	Vinyl Chloride													
75-00-3	Chloroethane													
75-09-2	Methylene Chloride	R	G UT	G UT	R									
67-64-1	Acetone	430 UT												
75-15-0	Carbon Disulfide	UT												
75-35-4	1, 1-Dichloroethene													
75-34-3	1, 1-Dichloroethane													
156-60-5	Trans-1, 2-Dichloroethene													
67-66-3	Chloroform	25 UT			5J									
107-06-2	1, 2-Dichloroethane	UT												
78-93-3	2-Butanone	50 UT												
71-55-6	1, 1, 1-Trichloroethane	R												
56-23-5	Carbon Tetrachloride	UT												
108-05-4	Vinyl Acetate	UT												
75-27-4	Bromodichloromethane	UT												
79-34-5	1, 1, 2, 2-Tetrachloroethane	4J												
78-87-5	1, 2-Dichloropropane	UT												
10061-02-6	Trans-1, 3-Dichloropropene													
79-01-8	Trichloroethene													
124-48-1	Dibromochloromethane													
79-00-5	1, 1, 2-Trichloroethane													
71-43-2	Benzene													
10061-01-5	cis-1, 3-Dichloropropene													
110-75-8	2-Chloroethylvinylether													
75-25-2	Bromoform													
591-78-6	2-Hexanone		10 UT	10 UT	10 UT									
108-10-1	4-Methyl-2-Pentanone													
127-18-4	Tetrachloroethene													
108-88-3	Toluene													
108-90-7	Chlorobenzene													
100-41-4	Ethylbenzene													
100-42-5	Styrene													
	Total Xylenes													

34 0 0 5

Semi-volatile organic analysis
 LEONARD RUSSELL RUSSELL BLANK

Sample ID
 EPA
 SMO

11 12 13 14
 AB169 AB171 AB172 AB173

CAS
 Number

3-32-9 Acenaphthene
 1-28-5 2, 4-Dinitrophenol
 00-02-7 4-Nitrophenol
 32-64-9 Dibenzofuran
 21-14-2 2, 4-Dinitrotoluene
 06-20-2 2, 6-Dinitrotoluene
 4-66-2 Diethylphthalate
 005-72-3 4-Chlorophenyl-phenylether
 6-73-7 Fluorene
 00-01-6 4-Nitroaniline
 34-52-1 4, 6-Dinitro-2-Methylphenol
 6-30-6 N-Nitrosodiphenylamine (1)
 01-55-3 4-Bromophenyl-phenylether
 18-74-1 Hexachlorobenzene
 7-86-5 Pentachlorophenol
 5-01-8 Phenanthrene
 20-12-7 Anthracene
 4-74-2 Di-n-Butylphthalate
 06-44-0 Fluoranthene
 12-87-5 Benzidine
 29-00-0 Pyrene
 15-68-7 Butylbenzylphthalate
 11-94-1 3, 3'-Dichlorobenzidine
 56-55-3 Benzo(a)Anthracene
 117-81-7 bis(2-Ethylhexyl)Phthalate
 218-01-9 Chrysene
 117-84-0 Di-n-Octyl Phthalate
 205-99-2 Benzo(b)Fluoranthene
 207-08-9 Benzo(k)Fluoranthene
 50-32-8 Benzo(a)Pyrene
 193-39-5 Indeno(1, 2, 3-cd)Pyrene
 53-70-3 Dibenz(a, h)Anthracene
 191-24-2 Benzo(g, h, i)Perylene

~~10K~~ 10K
 R
~~10K~~ 10K
 10K

L.H

SAMPLE NUMBER:
08169

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

AS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (<u>UG/L</u>) OR UG/KG	
1 7141-0	1-PENTANOL	ABN	336	} TP 17	
2 100-52-7	BENZALDEHYDE	ABN	376		14
3 2233-00-3	1-PROPENE, 3, 3, 3-TRICHLORO-	ABN	436		63
4 504-02-3	PENTANE, 2, 2, 5-TRIMETHYL-	ABN	449		31
5 27126-223	HEPTANE, 4-AZIDO-	ABN	497		7
6 24535-770	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	525		236
7 431-17-9	1,2-CYCLOHEXANEDIOL	ABN	556		97
8 632-21-3	2-PROPANONE, 1, 1, 3, 3-TETRACHLORO-	ABN	939		2
9	STYRENE	ABN	1403	7	
0 140-66-1	PHENOL, 4-(1, 1, 2, 3-TETRAMETHYLBUTYL)-	ABN	2031	TP 14	

No compounds detected - V

all for
5/10/85

600-001-50-04

Davis Liquid Wastewater

CDM

SAMPLE DATA PACKAGE

CONTRACT NUMBER 68-01-6853

CASE NUMBER 3633

Prepared by:

Radian Corporation
10395 Old Placerville Road
Sacramento, CA 95827

February 21, 1985

CASE NARRATIVE

This data package contains standard and sample analyses for the following water samples:

AB160	AB166
AB161	AB167
AB162	AB168
AB163	AB169
AB164	AB170

The samples were submitted as Case 3633 under Contract 68-01-6853.

1. The Base/Neutral spiking compound acenaphthene was omitted from the spiking solution. The solution has been reprepared.
2. Semi-Volatile and pesticide analyses were not requested for sample AB161.

LaPetkovska

WATER SURROGATE PERCENT RECOVERY SUMMARY

Case No. 3633-1 Contract Laboratory Radian Contract No. 65-01-6853

1000

SNO TRAFFIC NO.	VOLATILE						SEMI-VOLATILE					PESTICIDE
	TOLUENE-00 (100-110)	BFS (103-121)	1,2-DICHLORO-ETHANE-04 (77-100)	METHYLO-BENZENE-08 (101-100)	2-FLUORO-BIPHENYL (104-110)	TRICHLORO-BENZENE-014 (103-100)			PHENOL-06 (110-103)	2-FLUORO-PHENOL (123-101)	2,4,6-TRIBROMO-PHENOL (110-130)	DIBUTYL-CHLOROSULFATE (100-130)
BLK				71 ₂	121 ₂ *	106			110*	96	81 ₆	88
AB1160	43	96	100	66 ₆	119	101			100	83	77	95
AB1160MS				67	62	100			100	110	46	
AB1160MS1				71	64	97			105*	98	44	
AB1162	86	91	98	62	108	100			107*	103	81	94
AB1163	93	98	103	73	118	114			116*	124*	75	89
AB1164	88	90	91	67	106	100			104*	94	63	92
AB1160	92	99	97	66	105	97			110*	108	71	90
AB1166	86	85	96	66	113	112			118*	128*	72	91
AB1167	92	81*	101	68	118	11			94	87	72	91
AB1168	100	101	1.2*	77	108	48			75	78	86	90
AB1169	96	85	87	84	110	99			76	64	81	99
AB161	103	87	104									
AB170MS	92	92	97									
AB170MSD	95	95	96									
VB1612-3	100	100	88									
VB2612-4	99	91	97									
VB3612-11	105	83*	105									
AB160MS												91
AB160MSD												91

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
 ** ADVISORY LIMITS ONLY

Volatiles: 3 out of 45 ; outside of QC limits
 Semi-Volatiles: 10 out of 70 ; outside of QC limits
 Pesticides: 0 out of 12 ; outside of QC limits

Comments: low level

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 3633-1 Contractor Radian Contract No. 68-01-6853

0002

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS*	
									RPD	RECOVERY
VOA SMO SAMPLE NO. <u>AB170</u>	1,1-Dichloroethene	25	0	20	80	19	76	5	14	61-145
	Trichloroethene	25	↓	29	116	27	108	7	14	71-120
	Chlorobenzene	25	↓	30	120	30	120	0	13	75-130
	Toluene	25	↓	27	108	27	108	0	13	76-125
	Benzene	25	↓	27	108	25	100	8	11	76-127
B/N SMO SAMPLE NO. <u>AB160</u>	1,2,4-Trichlorobenzene	50	0	35	70	37	74	6	28	39-98
	Acenaphthene	↓	↓	0*	0	0*	0	0*	31	46-118
	2,4 Dinitrotoluene	↓	↓	18	36	20	40	11	38	24-96
	Di-n-Butylphthalate	↓	↓	46	92	49	98	6	40	11-117
	Pyrene	↓	↓	55	110	59	118	7	31	26-127
	N-Nitroso-Di-n-Propylamine	↓	↓	47	94	48	96	2	38	41-116
	1,4-Dichlorobenzene	↓	↓	50*	100	51*	102	2	28	36-97
ACID SMO SAMPLE NO. <u>AB160</u>	Pentachlorophenol	100	↓	50	50	71	71	35	50	9-103
	Phenol	↓	↓	106*	106	112*	112	6	42	12-89
	2-Chlorophenol	↓	↓	89	89	101	101	13	40	27-123
	4-Chloro-3-Methylphenol	↓	↓	68	68	76	76	11	42	23-97
	4-Nitrophenol	↓	↓	31	31	45	45	37	50	10-80
PEST SMO SAMPLE NO. <u>AB162</u>	Lindane	0.20	0	0.33	165*	0.23	115	36*	15	56-123
	Heptachlor	0.20	0	0.20	100	0.21	105	4.9	20	40-131
	Aldrin	0.20	0	0.17	85	0.17	85	0	22	40-120
	Dieldrin	0.50	0	0.52	104	0.55	110	5.6	18	52-126
	Endrin	0.50	0	0.54	108	0.58	116	7.1	21	56-121
	4,4'-DDT	0.50	0	0.57	114	0.60	120	5.1	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5; outside QC limits
 B/N 1 out of 7; outside QC limits
 ACID 0 out of 5; outside QC limits
 PEST 1 out of 6; outside QC limits

RECOVERY: VOAs 0 out of 10; outside QC limits
 B/N 4 out of 14; outside QC limits
 ACID 2 out of 10; outside QC limits
 PEST 1 out of 10; outside QC limits

Comments: Acenaphthene was not spiked in
low level

0003

REAGENT BLANK SUMMARY

Case No. 3633Contractor RadianContract No. 68-01-6853

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
4EB12131000 (VBI)	12-13-84	Y	Water	Low	F4	67-64-1	Acetone	14	ug/L	10
						78-93-3	2-Butanone	10	ug/L	10
EB1210P000	2-11-85	Pest	Water	1-2	—	—	No compounds Detected	—	—	—

Comments:

FORM IV

1/84

0004

REAGENT BLANK SUMMARY

Case No. 3633Contractor RadianContract No. 68-01-6853

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
V82) 4EB1214V000	12-14-84	V	Water	Low	F4	67-64-1	Acetone	6	ug/L	10
↓	↓	↓	↓	↓	↓	78-93-3	2-butanone	9	↓	10
V83) 4EB1217V000	12-17-84	V	Water	Low	F4	67-64-1	Acetone	43	ug/L	10
↓	↓	↓	↓	↓	↓	78-93-3	2-butanone	4	↓	10

Comments:

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

0005

Case No. 3653 Contractor RADIAN Contract No. 68-01-6853
Instrument ID F4 Date 12-11-84 Time 06:43
Lab ID 4EBFB1211 Data Release Authorized By: Lafetkov

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	20.55	
75	30.0 - 60.0% of the base peak	48.64	
95	Base peak, 100% relative abundance	100.00	
96	5.0 - 9.0% of the base peak	6.63	
173	Less than 1.0% of the base peak	—	
174	Greater than 50.0% of the base peak	54.61	
175	5.0 - 9.0% of mass 174	4.35	(7.96) ¹
176	Greater than 95.0%, but less than 101.0% of mass 174	52.98	(97.02) ¹
177	5.0 - 9.0% of mass 176	3.66	(6.91) ²

¹Value in parenthesis is % mass 174.

²Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
SAMPLES, BLANKS AND STANDARDS.

Calibration Date: 12-11-84
Disk Number: 104
RA Tape: _____
EP Tape: _____

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	4EBFB1211	12-11-84	06:43
STD 20	4ES1211V021	12-11	10:49
STD 50	4ES1211V051	12-11	11:35
STD 150	4ES1211V150	12-11	12:20
STD 200	4ES1211V200	12-11	12:57
STD 100	4ES1211V102	12-11	15:05

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

0006

Case No. 3663 Contractor Radian Contract No. 68-01-6853
 Instrument ID F4 Date 12-13-84 Time 06:19
 Lab ID 4EBFB1213* Data Release Authorized By: Lafetkov

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
50	15.0 - 40.0% of the base peak	20.96	
75	30.0 - 60.0% of the base peak	49.42	
95	Base peak, 100% relative abundance	100.00	
96	5.0 - 9.0% of the base peak	6.93	
173	Less than 1.0% of the base peak	—	
174	Greater than 50.0% of the base peak	54.36	
175	5.0 - 9.0% of mass 174	4.31	(7.93) ¹
176	Greater than 95.0%, but less than 101.0% of mass 174	52.44	(96.46) ¹
177	5.0 - 9.0% of mass 176	3.79	(7.23) ²

¹Value in parenthesis is % mass 174.

²Value in parenthesis is % mass 176.

Calibration Date: 12-11-84
 Disk Number: 104
 RA Tape: _____
 EP Tape: _____

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
 SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	4EBFB1213	12-13-84	6:19
STD 100ug/L	4ES1213V100	12-13	9:40
BLK	4EB1213V000	12-13	6:45
AB160	4EU12051V01	12-13	14:40
AB161	4ER12051V02	12-13	16:44
AB162	4ER12051V03	12-13	17:21
AB163	4EU12051V04	12-13	17:59
AB164	4EU12051V05	12-13	18:38
AB170	4EU12051V06	12-13	19:17

* SEE CASE 3653
 12-13-84

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

0007

Case No. 3633 Contractor Radian Contract No. 68-01-6853

Instrument ID F4 Date 12-14-84 Time 06:54

Lab ID 4EBFB1214 Data Release Authorized By: T. Potkova

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.60
75	30.0 - 60.0% of the base peak	49.94
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.73
173	Less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	55.87
175	5.0 - 9.0% of mass 174	4.50 (806) ¹
176	Greater than 95.0%, but less than 101.0% of mass 174	54.63 (97.78) ¹
177	5.0 - 9.0% of mass 176	3.74 (684) ²

¹Value in parenthesis is % mass 174.

²Value in parenthesis is % mass 176.

Calibration Date: 12-11-84

Disk Number: 104

RA Tape: _____

EP Tape: _____

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	4EBFB1214	12-14-84	06:54
BLK	4EB1214V000	12-14	07:16
STD 100ug/L	4ES1214V100	12-14	11:06
AB166	4EU12056V01	12-14	13:27
AB167	4E 12056V02	12-14	14:05
AB168	4EU12056V03	12-14	16:05
AB169	4EU12056V04	12-14	15:26
AB168 PERUN	4ER12056V03	12-14	17:50

GC/MS TUNING AND MASS CALIBRATION

0008

Bromofluorobenzene (BFB)

Case No. 3633 Contractor Radian Contract No. 68-01-6853
 Instrument ID F4 Date 12-17-84 Time 07:08
 Lab ID 4EBFB1217 Data Release Authorized By: Z. Peterson

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	20.84
75	30.0 - 60.0% of the base peak	50.00
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of the base peak	6.76
173	Less than 1.0% of the base peak	—
174	Greater than 50.0% of the base peak	54.48
175	5.0 - 9.0% of mass 174	4.40 (8.08) ¹
176	Greater than 95.0%, but less than 101.0% of mass 174	52.69 (96.71) ¹
177	5.0 - 9.0% of mass 176	3.74 (7.10) ²

¹Value in parenthesis is % mass 174.

²Value in parenthesis is % mass 176.

Calibration Date: 12-11-84
 Disk Number: 60
 RA Tape: _____
 EP Tape: _____

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
 SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	4EBFB1217	12-17-84	07:08
BLK	4EB1217V000	12-17	07:28
STD	4ES1217V100	12-19	08:05
AB170MSD	4ED12051V06	12-17	14:34
AB170MS	4EQ12051V06	12-17	15:53

**GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)**

0000

Case No. 3633 Contractor Radian Contract No. _____
 Instrument ID F2 Date 12/20/84 Time 12:18:00
 Lab ID 2EDFT1220 Data Release Authorized By: J. Petrov

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.55
68	less than 2.0% of mass 69	0 () ¹
69	mass 69 relative abundance	34.37
70	less than 2.0% of mass 69	0 () ¹
127	40.0 - 60.0% of mass 198	41.24
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100.00
199	5.0 - 9.0% of mass 198	6.77
275	10.0 - 30.0% of mass 198	18.22
365	greater than 1.00% of mass 198	1.74
441	present, but less than mass 443	6.71
442	greater than 40.0% of mass 198	59.13
443	17.0 - 23.0% of mass 442	10.63 (17.95) ²

¹Value in parenthesis is % mass 69.

²Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
SAMPLES, BLANKS AND STANDARDS.

Calibration Date: 12/16/84

Disk Number: 61

RA Tape: _____

EP Tape: _____

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	2EDFTe211220	12-20-84	
STD 50ng	2ES1220C050		
STD 20ng	2ES1220C020		
STD 80ng	2ES1220C080		
STD 120ng	2ES1220C120		
STD 160ng	2ES1220C160		

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

0010

Case No. 3633-1 Contractor RADIAN Contract No. 68-01-6853
 Instrument ID FR Date 12/21/84 Time 6:45
 Lab ID 2EDFT121 Data Release Authorized By: Zafetkoon

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.01
68	less than 2.0% of mass 69	0 (0) ¹
69	mass 69 relative abundance	35.03
70	less than 2.0% of mass 69	0 (0) ¹
127	40.0 - 60.0% of mass 198	46.17
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.51
275	10.0 - 30.0% of mass 198	17.97
365	greater than 1.00% of mass 198	1.18
441	present, but less than mass 443	5.88
442	greater than 40.0% of mass 198	45.71
443	17.0 - 23.0% of mass 442	8.46 (18.57) ²

¹Value in parenthesis is % mass 69.

²Value in parenthesis is % mass 442.

Calibration Date: 12/20/84

Disk Number: 61/62

RA Tape: _____

EP Tape: _____

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
 SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	2EDFT121	12-21-84	6:45
STD #50	2ES1221C050	✓	7:13
BLK	2EB1210C001	✓	8:01
AB160	2EU12051C01 800:1	✓	9:35
AB160-MS	2EM12051C01 1000:1	✓	10:30
AB160-MSD	2ED12051C01 1000:1	✓	11:24
AB162	2EU12051C03 1000:1	✓	12:59
AB163	2EU12051C04 1:1	✓	14:05
AB164	2EU12051C05 1:1	✓	15:04
AB170	2EU12051C06 1:1	✓	15:58
AB166	2EU12051C09 1:1	✓	18:20
AB167	2EU12051C02 1:1	✓	19:18

Decafluorotriphenylphosphine (DFTPP)

0011

Case No. 3633-1 Contractor RADIAN Contract No. 68-01-6953
 Instrument ID FR Date 12/26/84 Time 7:41
 Lab ID 2EDFT1226 Data Release Authorized By: L. Petkovsk

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.66
68	less than 2.0% of mass 69	0 (0) ¹
69	mass 69 relative abundance	41.35
70	less than 2.0% of mass 69	0 (0) ¹
127	40.0 - 60.0% of mass 198	55.94
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	8.85
275	10.0 - 30.0% of mass 198	25.08
365	greater than 1.00% of mass 198	1.99
441	present, but less than mass 443	9.83
442	greater than 40.0% of mass 198	77.28
443	17.0 - 23.0% of mass 442	14.49 (19.75) ²

¹Value in parenthesis is % mass 69.²Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING
 SAMPLES, BLANKS AND STANDARDS.

Calibration Date: 12/26/84Disk Number: 62/63

RA Tape: _____

EP Tape: _____

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
DFTPP	2EDFT1226	12/26/84	7:41
STD @50	2ES1226L052	✓	12:09
AB168	2EU12056L03	✓	13:27
AB169	2EU12056L04	✓	14:21

Organics Analysis Data Sheet
(Page 1)

0012

Laboratory Name: Radian

Case No: 3633

Lab Sample ID No: 4EU12051V01

QC Report No: 40

Sample Matrix: Water

Contract No: 68-01-6853

Data Release Authorized By: F. Peterson

Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 12-13-84

Conc/Dil Factor: 1:1 pH _____

Percent Moisture: 100%

Percent Moisture (Decanted): _____

all in 5/10/85

CAS-Number (u) or ug/Kg (Circle One)

74-87-3	Chloromethane	<u>5 10U</u>
74-83-9	Bromomethane	<u>10U J</u>
75-01-4	Vinyl Chloride	<u>10U J</u>
75-00-3	Chloroethane	<u>10U J</u>
75-09-2	Methylene Chloride	<u>2000 U J</u> 500 300 U J
67-64-1	Acetone	<u>100 430 U J</u>
75-15-0	Carbon Disulfide	<u>5U J</u>
75-35-4	1, 1-Dichloroethene	<u>5U J</u>
75-34-3	1, 1-Dichloroethane	<u>5U J</u>
156-60-5	Trans-1, 2-Dichloroethene	<u>5U J</u>
67-66-3	Chloroform	<u>5U 25U J</u>
107-06-2	1, 2-Dichloroethane	<u>5U J</u>
78-93-3	2-Butanone	<u>R 8105, B</u>
71-55-6	1, 1, 1-Trichloroethane	<u>5U 25 U J</u>
56-23-5	Carbon Tetrachloride	<u>5U J</u>
108-05-4	Vinyl Acetate	<u>10U J</u>
75-27-4	Bromodichloromethane	<u>5U J</u>

CAS Number (u) or ug/Kg (Circle One)

79-34-5	1, 1, 2, 2-Tetrachloroethane	<u>5U J</u>
78-87-5	1, 2-Dichloropropane	<u>5U</u>
10061-02-6	Trans-1, 3-Dichloropropene	<u>5U</u>
79-01-6	Trichloroethene	<u>5U</u>
124-48-1	Dibromochloromethane	<u>5U</u>
79-00-5	1, 1, 2-Trichloroethane	<u>5U</u>
71-43-2	Benzene	<u>5U</u>
10061-01-5	cis-1, 3-Dichloropropene	<u>5U</u>
110-75-8	2-Chloroethylvinylether	<u>10U</u>
75-25-2	Bromoform	<u>5U</u>
591-78-6	2-Hexanone	<u>10U</u>
108-10-1	4-Methyl-2-Pentanone	<u>10U</u>
127-18-4	Tetrachloroethene	<u>5U</u>
108-88-3	Toluene	<u>5U</u>
108-90-7	Chlorobenzene	<u>5U</u>
100-41-4	Ethylbenzene	<u>5U</u>
100-42-5	Styrene	<u>5U</u>
	Total Xylenes	<u>5U J</u>

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U. Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10U.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

0013

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB160

Organics Analysis Data Sheet
(Page 2)

all for 5/7/10/85

Semivolatile Compounds
Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 12-21-84
Conc/Dil Factor: 800:1

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-5	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u 100, B e
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u 100
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pvrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

0014

Sample Number
AB 160

Organics Analysis Data Sheet
 (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 800 ml : 5 ml

all for ET 1/10/85

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 800 ml or W_s _____ V_i 5000 uL V_t 2 uL

0015

 SAMPLE NUMBER:
 AB160

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

accepted 5/10/85

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/KG
1 29538-770	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	TP 248
2 931-11-9	1,2-CYCLOHEXANEDIOL	ABN	553	TP 113
3 56-55-3	BENZ[<i>a</i>]ANTHRACENE	ABN	1632	9
4 4316-65-8	1-HEXENE, 3,5,5-TRIMETHYL-	ADN	1648	TP 11
5 198-85-0	PERYLENE	ABN	1867	TP 19
6 655-29-9	HYDROCINNAMICACID, P-METHOXY-, .BETA.-ME	ABN	1901	TP 14

No Volatile Compound Detected

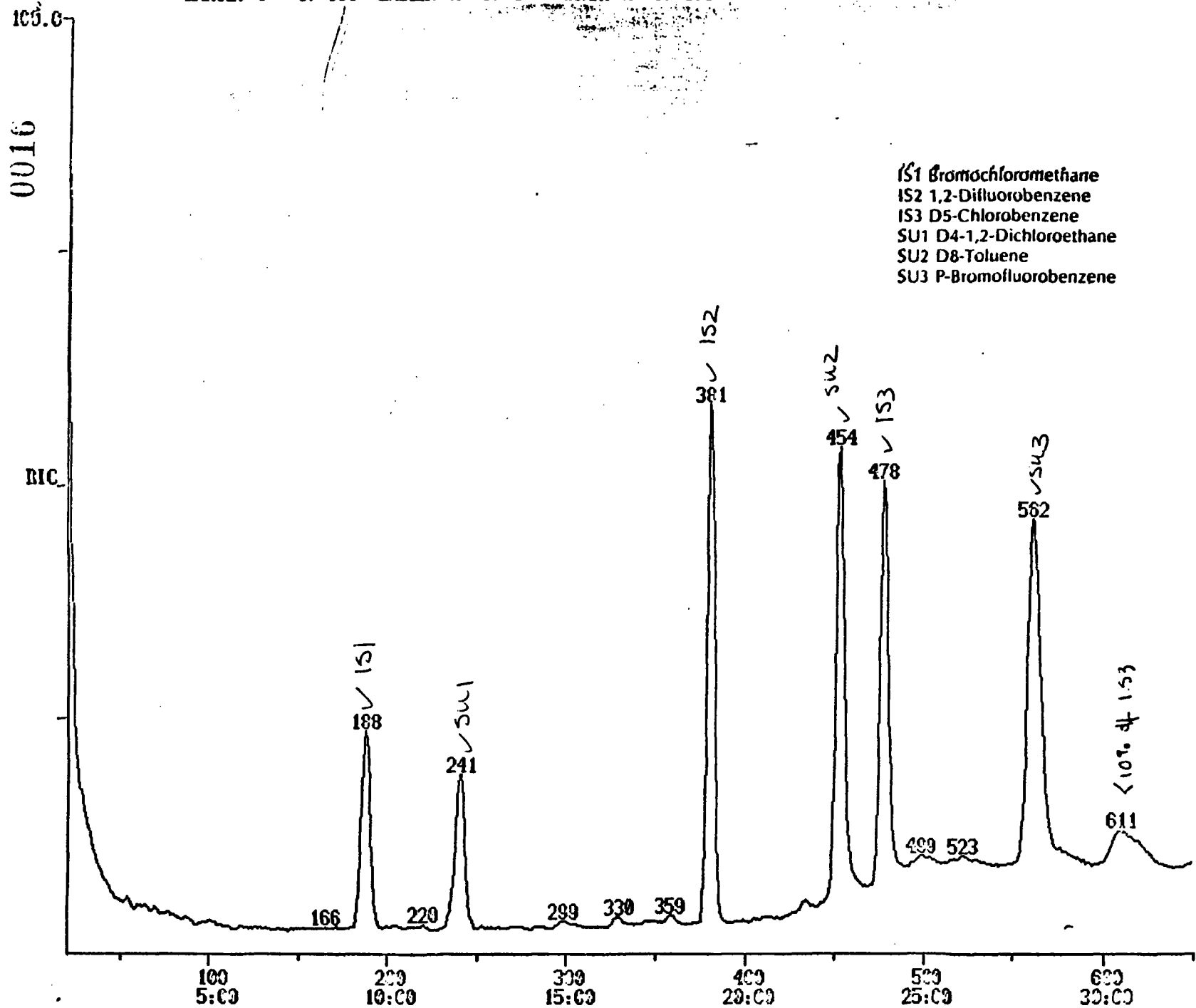
12/13/84 14:49:00

CALI: F4CAL 01

SAMPLE: F4.D.EPA.AB189.CO.V.1:1.NAS

RANGE: G 1.650 LABEL: N 0.4.0 QUAN: A 0.1.0 BASE: U 20. 3

350424.



IS1 Bromochloromethane
IS2 1,2-Difluorobenzene
IS3 D5-Chlorobenzene
SU1 D4-1,2-Dichloroethane
SU2 D8-Toluene
SU3 P-Bromofluorobenzene

SCAN
TIME

DATA: 4EU12051V01.TI
 12/13/84 14:40:00
 SAMPLE: F4,D,EPA,AB160,00,V,1:1,NA\$
 SUBMITTED BY: EPA ANALYST: MM

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

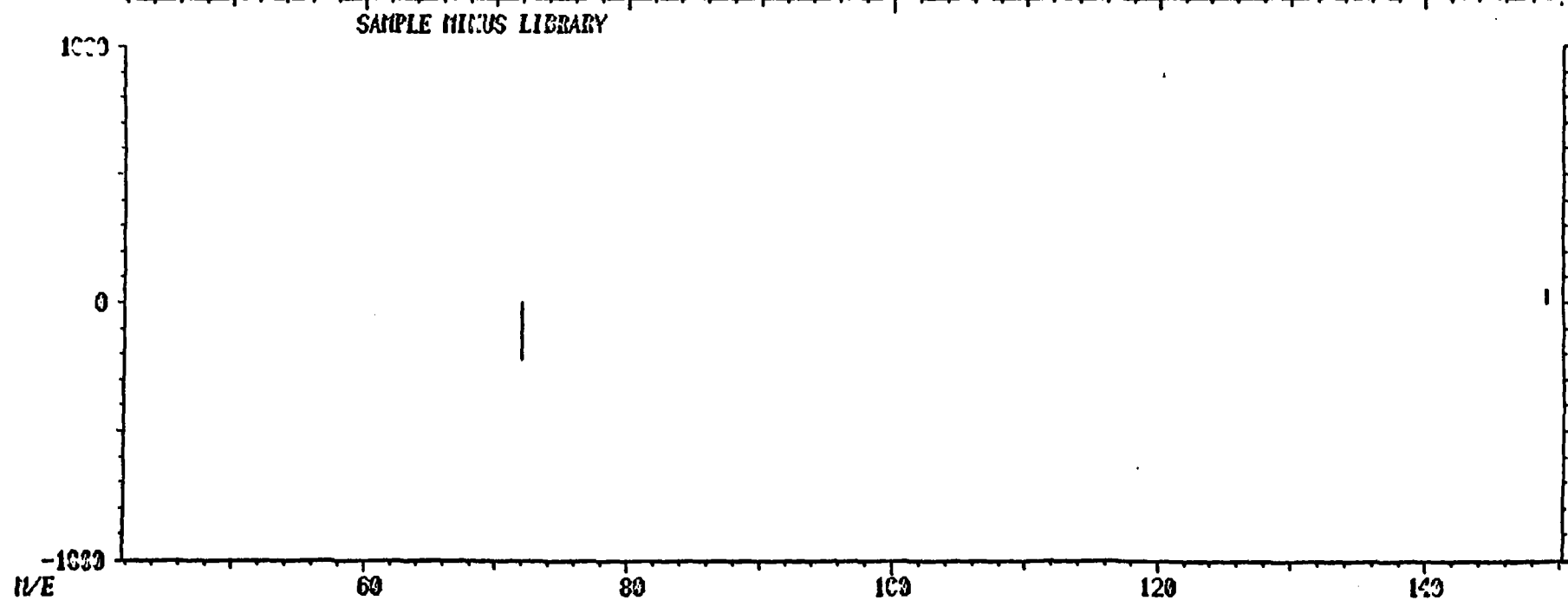
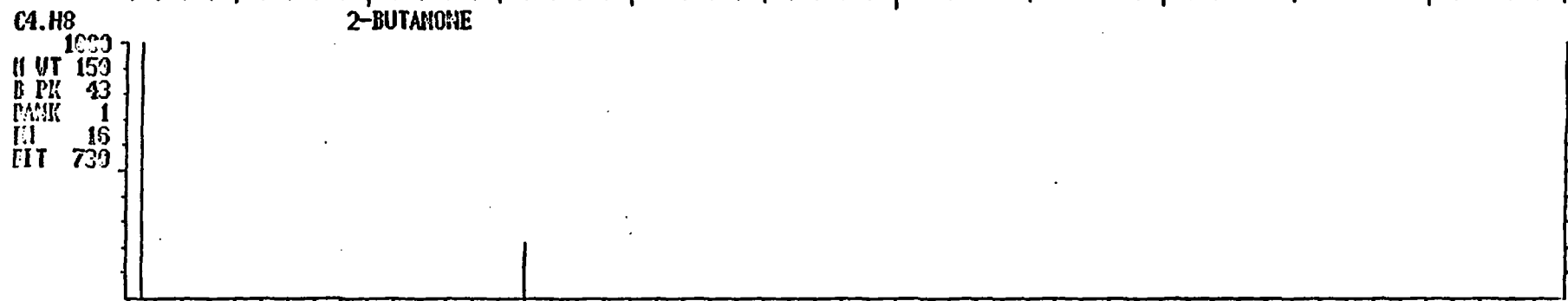
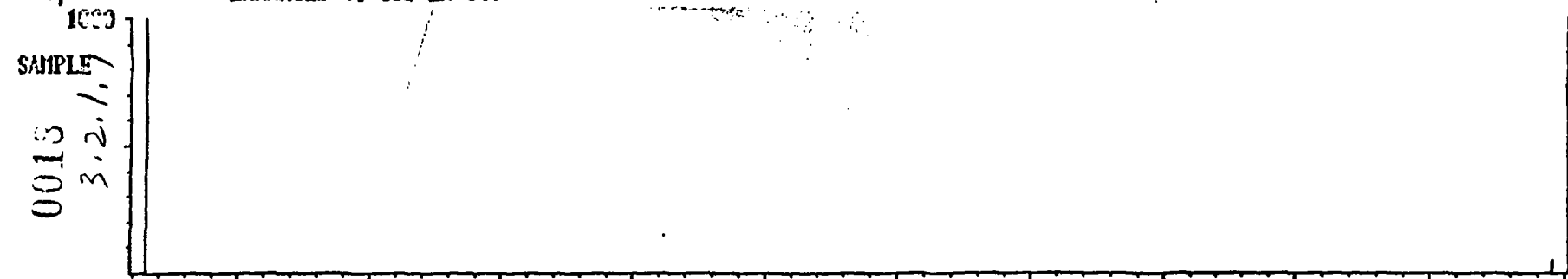
NO	NAME		
1	(IS1) 74-97-5	BROMOCHLOROMETHANE	
2	(SU1) SURROGATE	D4-1,2-DICHLOROETHANE	
3	(IS2)	DIFLUOROBENZENE-1,2	
4	(IS3)	CHLOROBENZENE-D5	
5	(SU2) SURROGATE	TOLUENE-D8	
6	(SU3) SURROGATE	P-BROMOFLUOROBENZENE	
7	2-BUTANONE		

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	123	188	9:24	1	1.000	A 63	62510.	50.000 UG/L	11.21
2	67	240	12:00	1	1.277	A 63	78143.	99.731 %	22.35
3	114	391	19:03	3	1.900	A 63	412195.	50.000 UG/L	11.21
4	117	478	23:54	4	1.000	A 63	282718.	50.000 UG/L	11.21
5	98	453	22:39	4	0.948	A 63	358156.	92.095 %	20.33
6	95	562	28:06	4	1.176	A763	266982.	95.529 %	21.42
7	43	237	11:51	3	0.622	A7VB	17751.	7.815 UG/L	1.75

12/13/84 14:49:00 + 11:51
SAMPLE: F4.D.EPA.AB100.CO.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL 0 1

BIC: 1753.

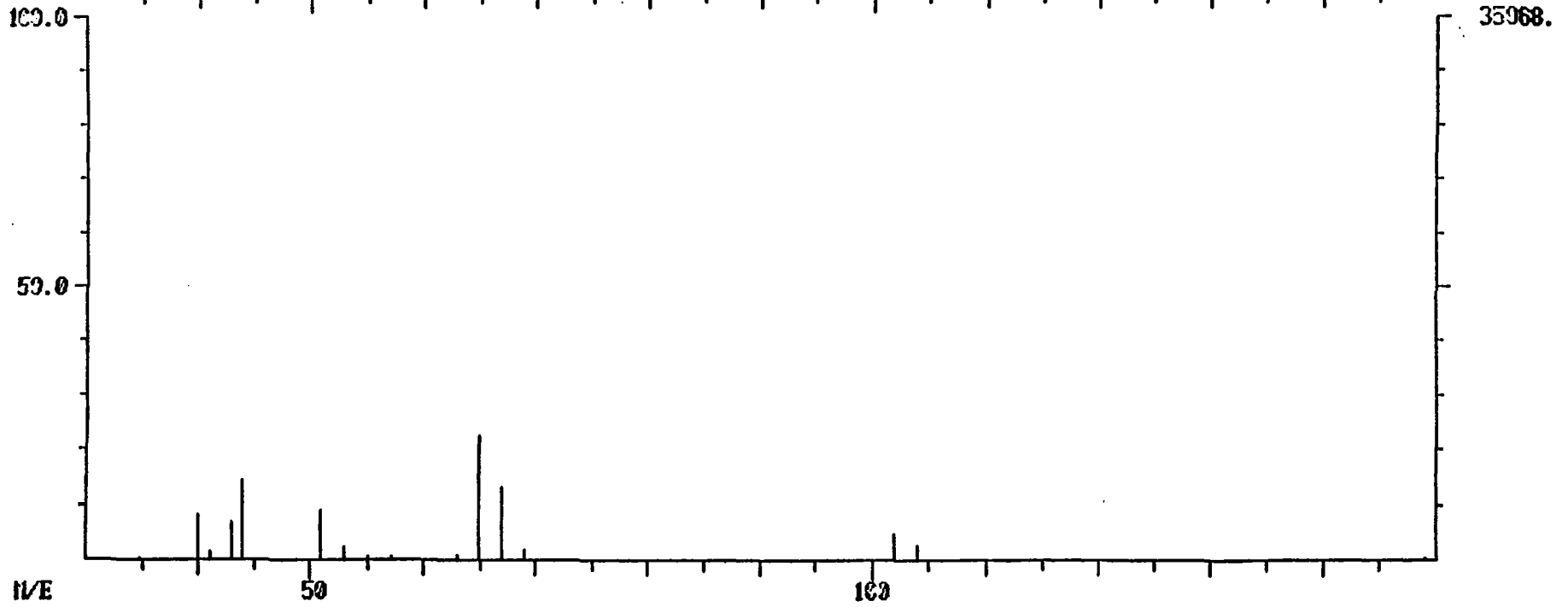
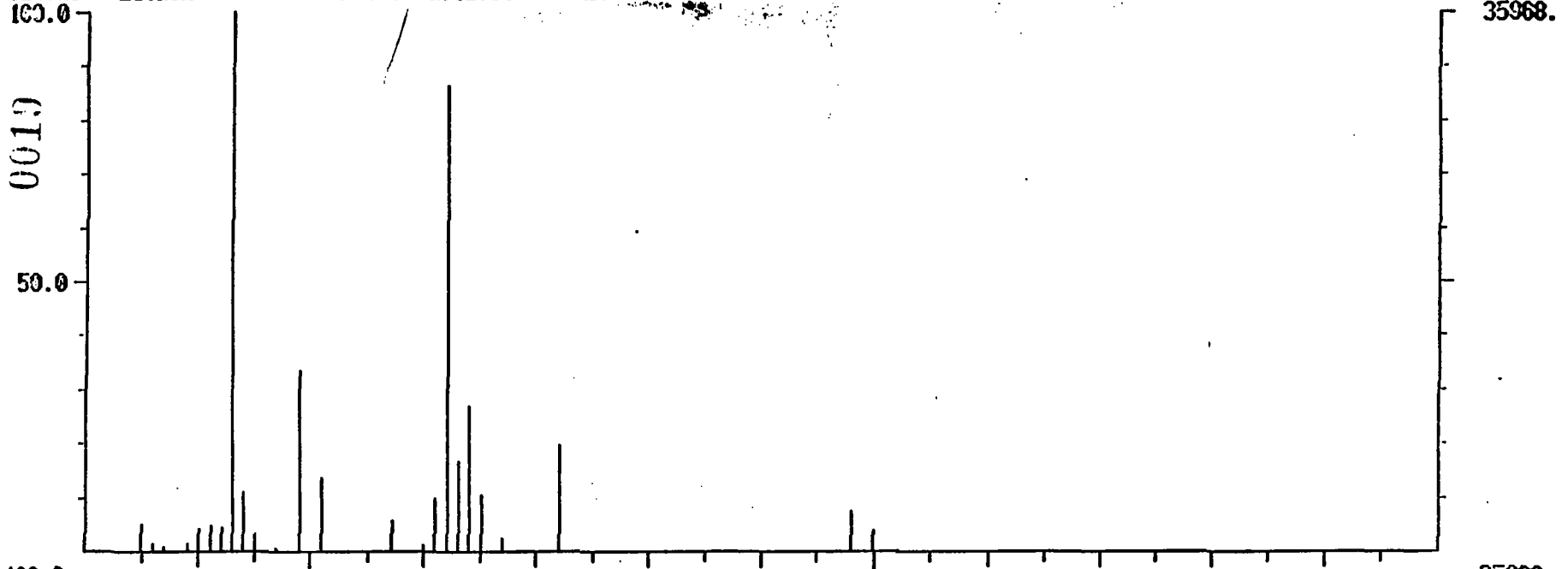


10/15/84 6:32:00 + 10:48
SAMPLE: F4.D.VER.C91C9.CO.V.MA:MA.NAS
DATA: 4EU12051V01 0237

CALI: F4CAL 01

RIC: 135679./ 32287.

SECOND SPECTRUM



RIC
12/21/84 9:35:00
SAMPLE: AB160
RANGE: G 1.2550

800:1.12/10/84-DS
LABEL: N 0.4.0 QUAN: A 0.1.0

DATA: 2EU12051C01 #1
CALI: F2CAL #1
BASE: U 20. 3

SCANS 300 TO 2550

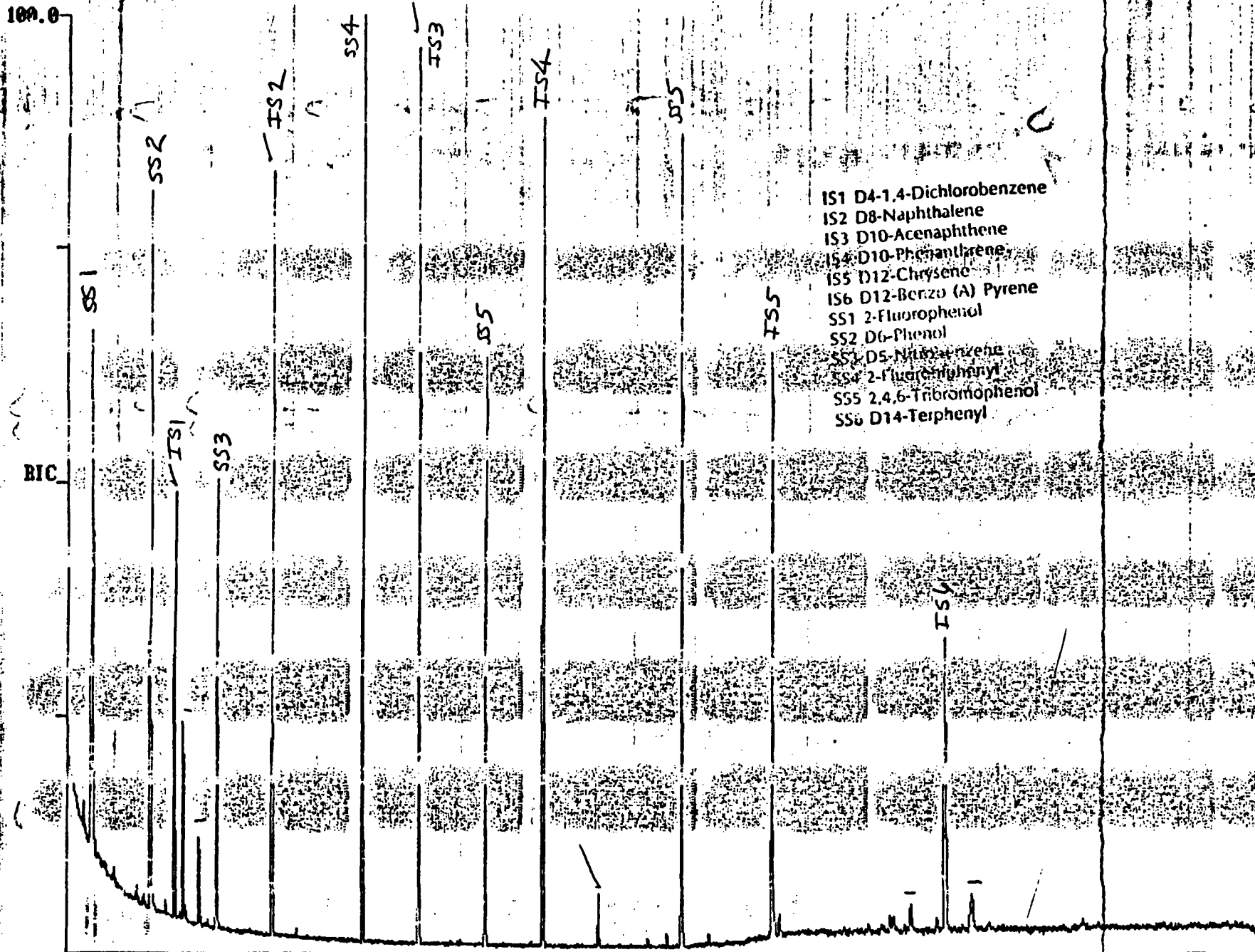
181501

00207

RADIAN DC * FC43-0

ANALYST:LK

RIC



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorophenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500
8:20

1000
16:40

1500
:00

2000
22:20

2500
41

SCAN
T

DATA: 2EU12051C01.T1

12/21/84 9:35:00

SAMPLE: AB150 B0 1.12/10/84-D\$

SUBMITTED BY: EPA ANA ST: LK

QUANT-AREA(HGHT) * REF.AMNT / (REF.AREA(HGHT) * RESP. FACT)
 RESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 D8-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 DI-N-BUTYLPHTHALATE

NO	M/E	SCAN	TIME	REF	RT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	505	8:25	1	1.030	A BB	44809.	40.000 UG/ML	3.79
2	136	690	11:30	2	1.030	A BB	162892.	40.000 UG/ML	3.79
3	164	967	16:07	3	1.000	A BB	96300.	40.000 UG/ML	3.79
4	188	1202	20:02	4	1.000	A7BB	147380.	40.000 UG/ML	3.79
5	240	1634	27:14	5	1.070	A BB	123341.	40.000 UG/ML	3.79
6	264	1966	32:45	6	1.000	A7BB	106504.	40.000 UG/ML	3.79
7	112	348	5:49	1	0.699	A BB	76992.	166.114 %	15.74
8	99	460	7:40	1	0.911	A BB	143538.	198.930 %	18.85
9	82	586	9:45	2	0.849	A BB	61320.	66.406 %	6.29
10	172	861	14:21	3	0.890	A BB	144121.	119.491 %	11.32
11	330	1093	18:13	3	1.179	A BB	37866.	153.497 %	14.54
12	244	1463	24:23	5	0.895	A BB	154705.	106.690 %	10.11
13	149	1306	21:45	4	1.057	A BB	16580.	4.305 UG/ML	0.41

LIBRARY SEARCH
12/21/84 9:35:00 + 21:46
SAMPLE: AB160 800:1.12/10/84-DS
ENHANCED (S 15B 2N 0T)

DATA: 2EU12051C01 #1306
CALI: F2CAL # 1

BASE M/E: 149
RIC: 8111.

000

1000
SAMPLE

0022

1000
M UT 150
B PK 149
RANK 1
IN 77
BFT 883

DI N OCTAL INITIATE

BUTYL

SAMPLE MINUS LIBRARY

-1000
M/E

50

100

150

200

250

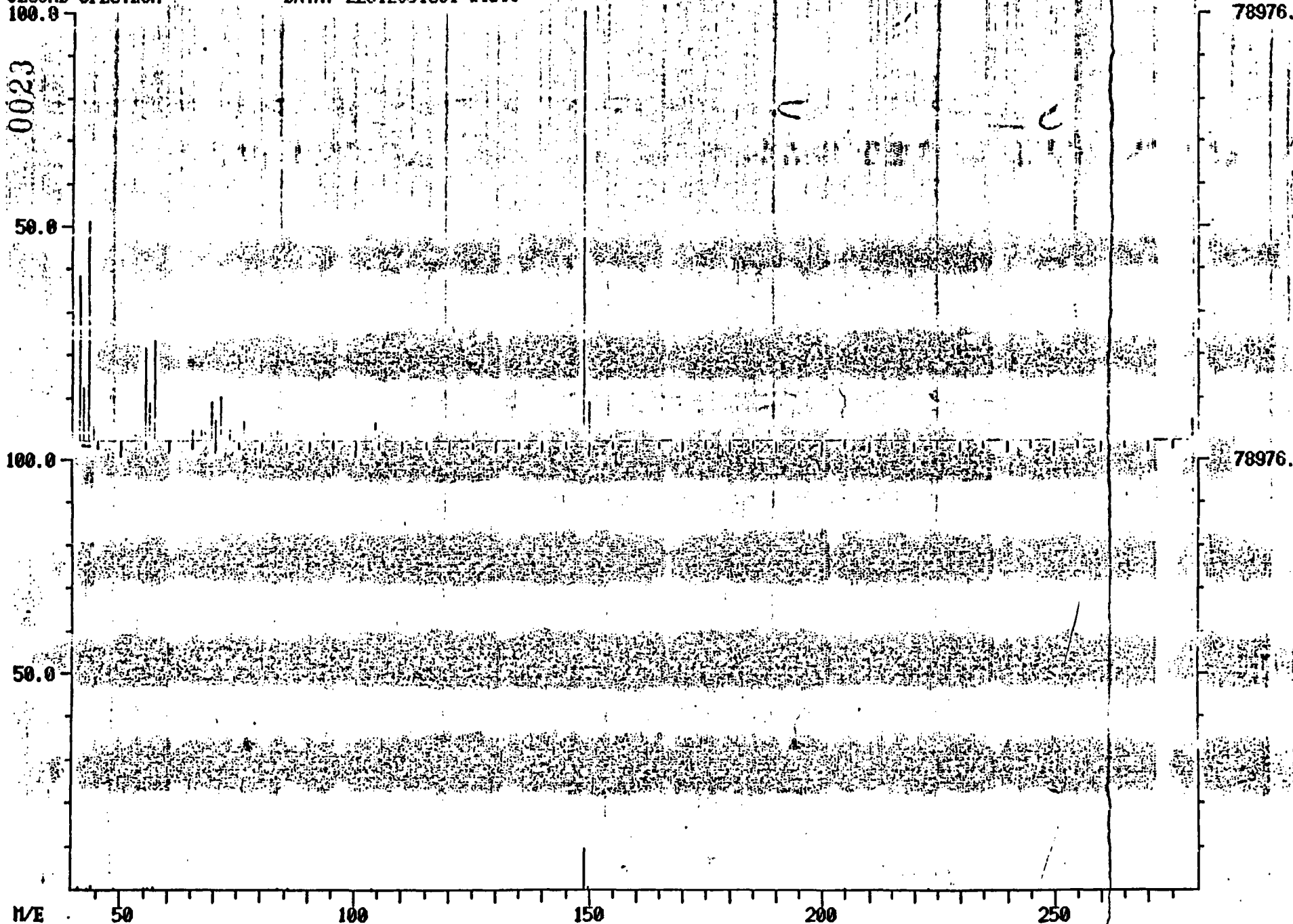
DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA.NAS
DATA: 2EU12051C01 #1306

DATA: EPSTD #1745
CALI: F2CAL #1

BASE M/E: 149/ 149
RIC: 257279./ 11391.

108

SECOND SPECTRUM



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12051C01.TI

12/21/84 9:35:00

SAMPLE: AB160 800:1,12/10/84-D\$

SUBMITTED BY: EPA ANALYST: LK

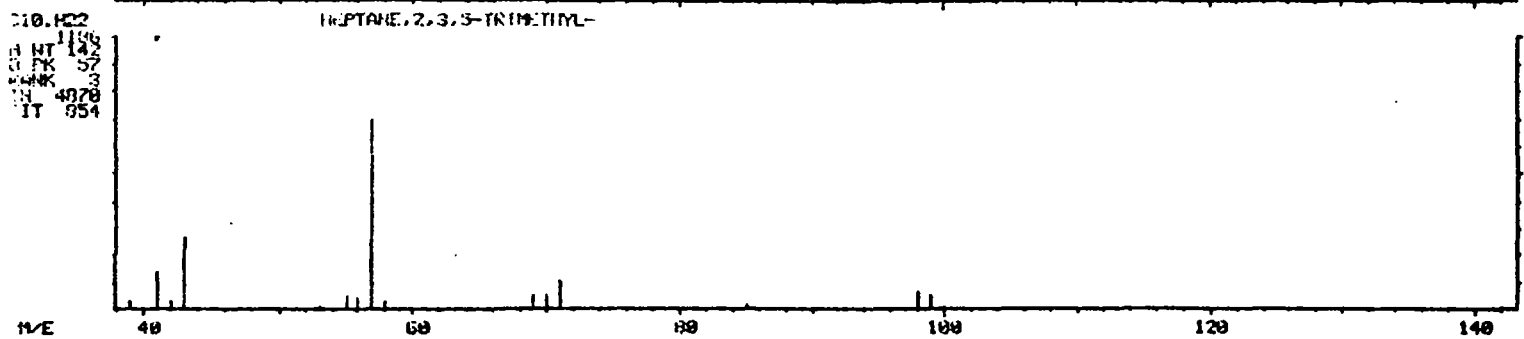
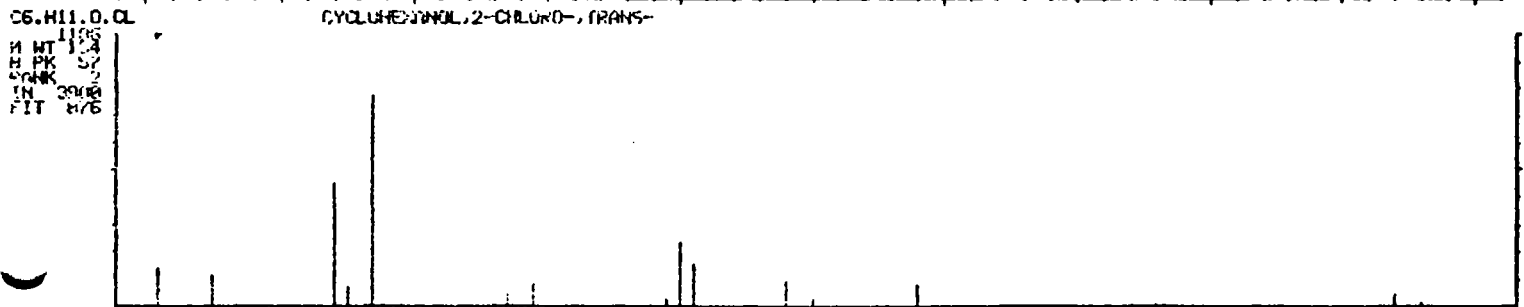
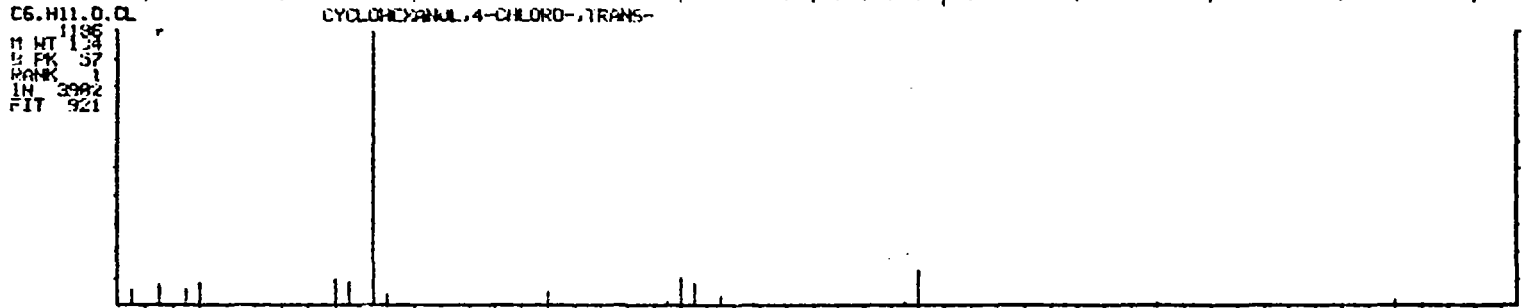
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO NAME
 1 D4-1,4-DICHLOROBENZENE (IS)
 2 DB-NAPHTHALENE (IS)
 3 D10-ACENAPHTHENE (IS)
 4 D10-PHENANTHRENE (IS)
 5 D12-CHRYSENE (IS)
 6 D-12 BENZO(A)PYRENE (IS)
 7 CYCLOHEXANOL, 4-CHLORO-, TRANS -
 8 1,2-CYCLOHEXANEDIOL
 9 ~~BENZ(A)ANTHRACENE~~
 10 1-HEXENE, 3,5,5-TRIMETHYL-
 11 PERYLENE
 12 HYDROCINNAMICACID, P-METHOXY-, BETA.-METHYL-, METHYLESTER

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	505	8:25	1	1.000	A BB	44009.	40.000 UG/ML	6.99
2	136	590	11:30	2	1.000	A BB	162092.	40.000 UG/ML	6.99
3	164	967	16:07	3	1.000	A BB	96300.	40.000 UG/ML	6.99
4	188	1202	20:02	4	1.000	A?BB	147330.	40.000 UG/ML	6.99
5	240	1634	27:14	5	1.000	A BB	123341.	40.000 UG/ML	6.99
6	264	1966	32:46	6	1.000	A?BB	106504.	40.000 UG/ML	6.99
7	TOT	522	8:42	1	1.034	A UB	72686.	198.214 UG/L	34.65
8	TOT	553	9:13	1	1.095	A BB	33210.	90.563 UG/L	15.83
9	TOT	1552	27:12	5	0.993	A BB	7732.	7.582 UG/L	1.33
10	TOT	1648	27:28	5	1.009	A BU	8999.	8.756 UG/L	1.53
11	TOT	1867	31:07	6	0.950	A UB	13551.	15.270 UG/L	2.67
12	TOT	1901	31:41	6	0.967	A BU	10278.	11.582 UG/L	2.02

LIBRARY SEARCH
12/21/94 9:35:00 + 0:42
SAMPLE: AB168 (988:1,12/10/84-03)
ENHANCED (S 158 2H 61)

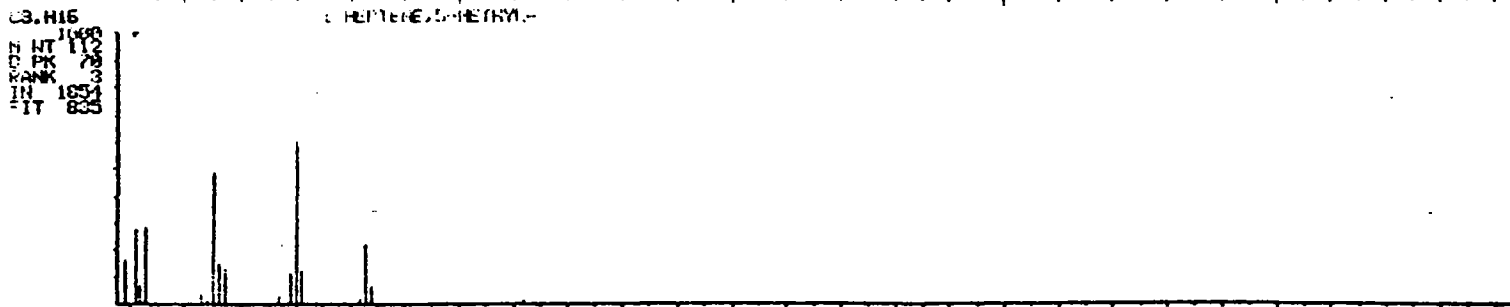
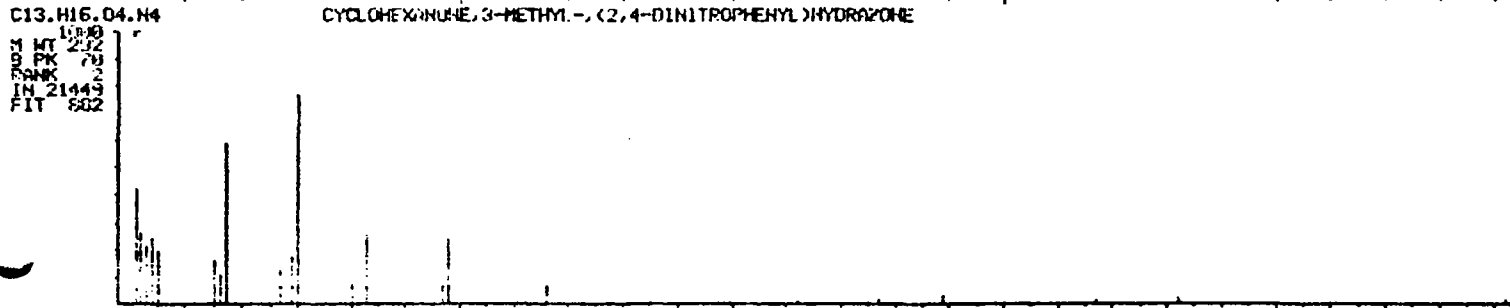
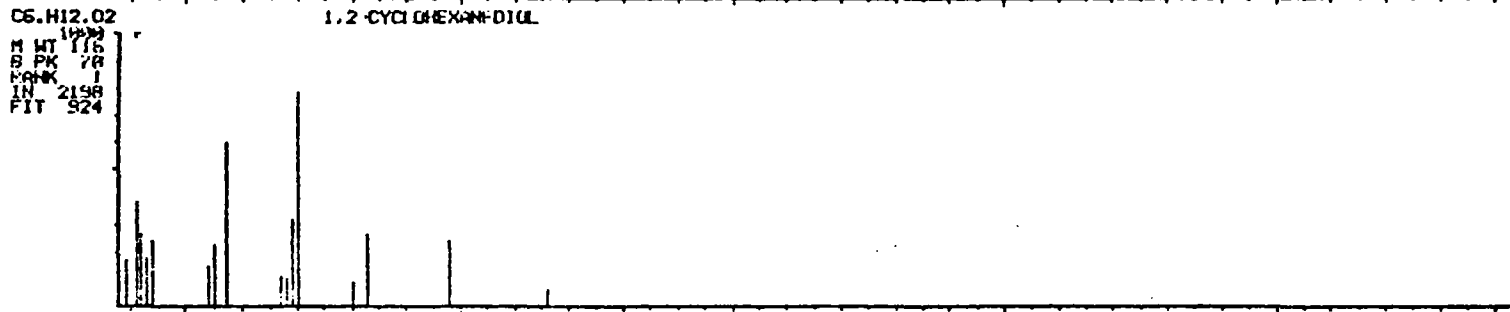
DATA: 2EU17051C01 # 522 BY: E M/E: 57
CALI: FZCN # 1 RIC: 30015.



m/e 40 60 80 100 120 140

LIBRARY SEARCH
12/21/84 9:31:00 + 9:13
SAMPLE: AB160 800:1.12/10/84-03
ENHANCED (S 153 2H 0T)

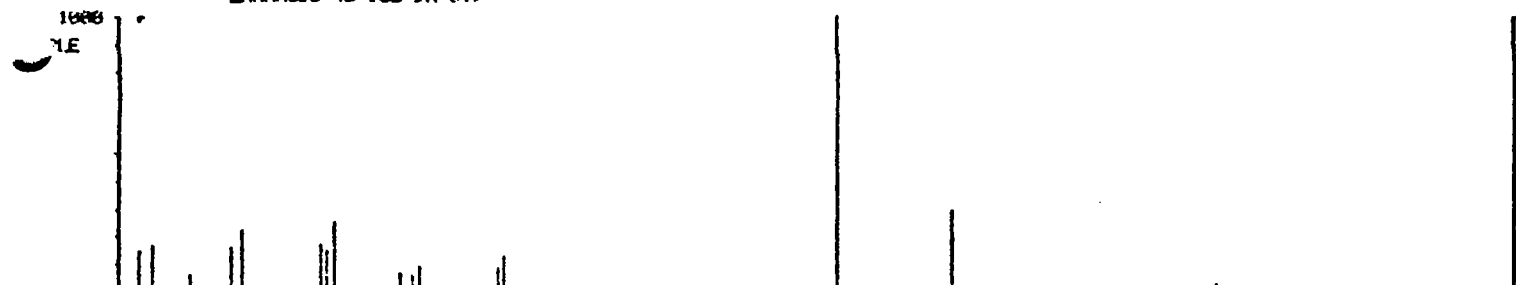
DATA: ZOU12051001 # 533 BASE M/E: 70
CAL1: FZCAL # 1 RIC: 12959.



M/E 50 100 150 200 250

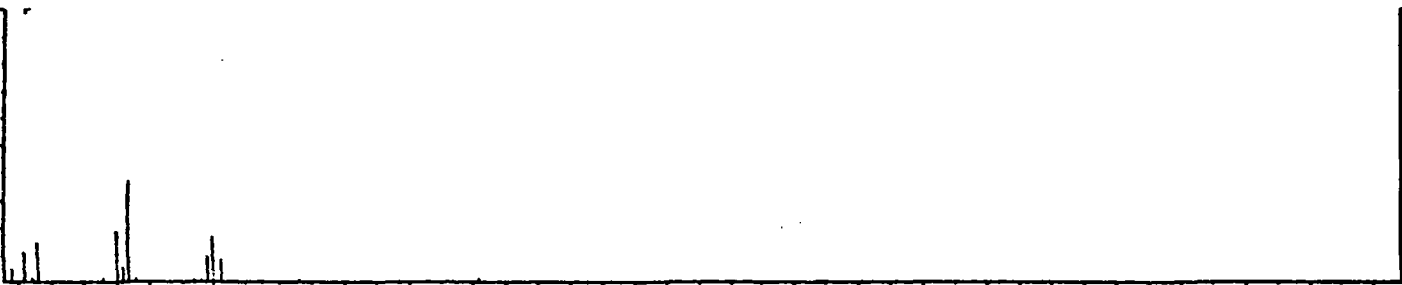
LIBRARY SEARCH
12/21/04 9:35:00 + 27:23
SAMPLE: AB160 (00:1:12/10/04-DS
ENHANCED (S 150 2N 8T)

DATA: 2EU1285108J #1648 BASE ME: 149
CALI: F2CAL # 1 RIC: 3391.



09.H18
M W 126
PK 57
FIT 823

1-HEMENE,3,5,5-TRIMETHYL-



09.H20.0
M W 141
PK 57
FIT 803

1-PENTANOL,4-METHYL-2-PROPYL-



05.H14.0
M W 102
PK 43
FIT 802

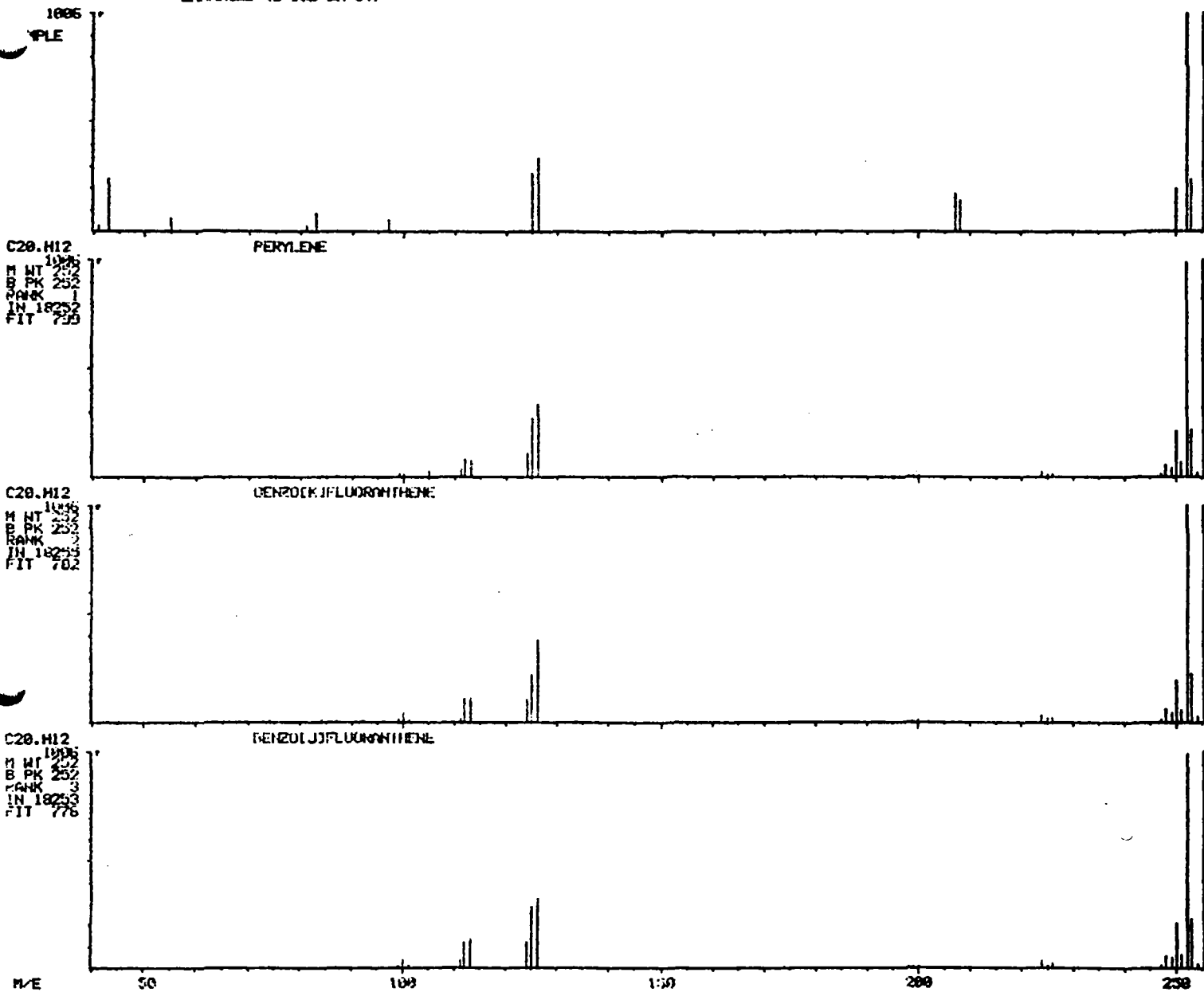
1-PENTANOL,2-METHYL-



m/z 50 100 150 200 250

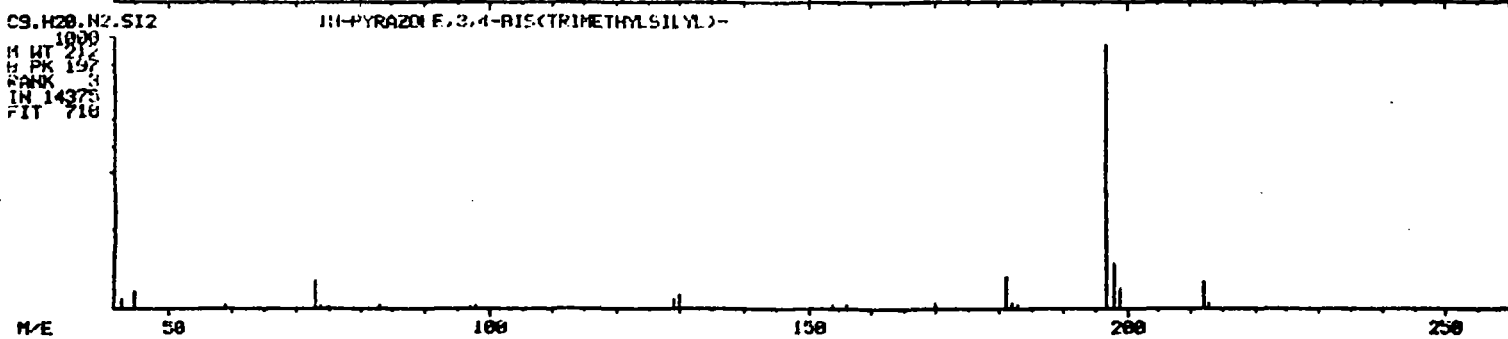
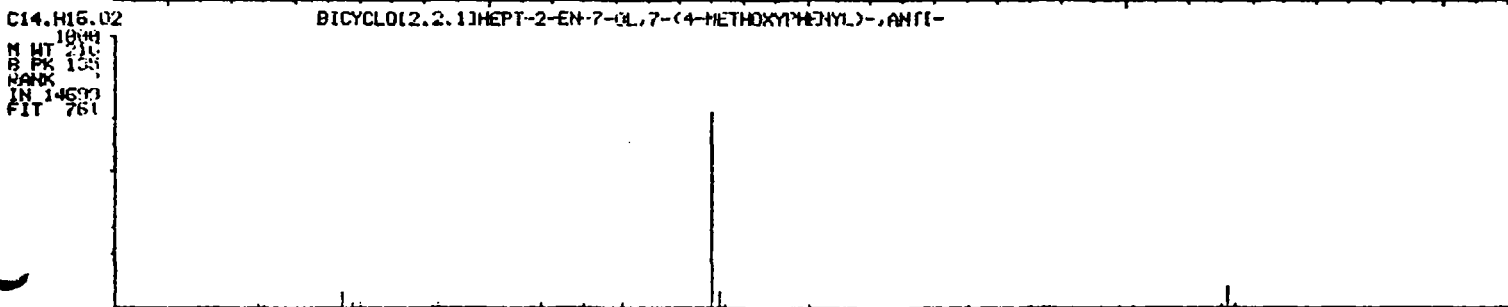
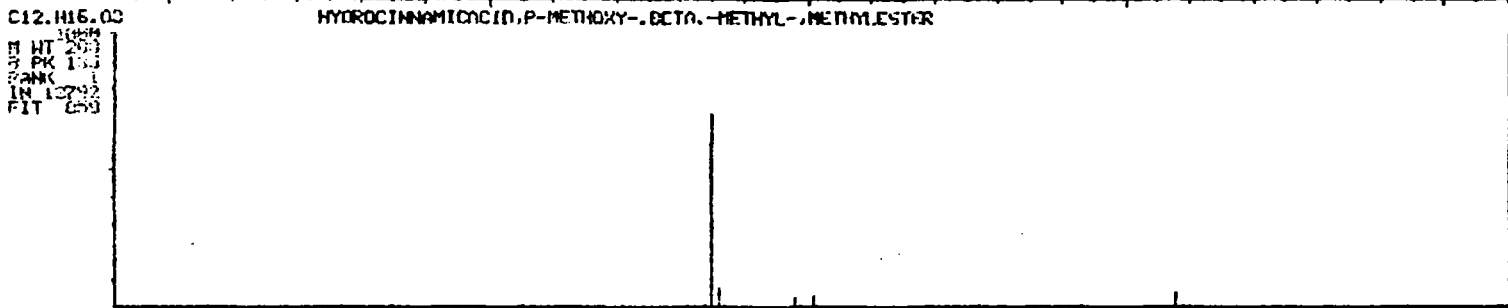
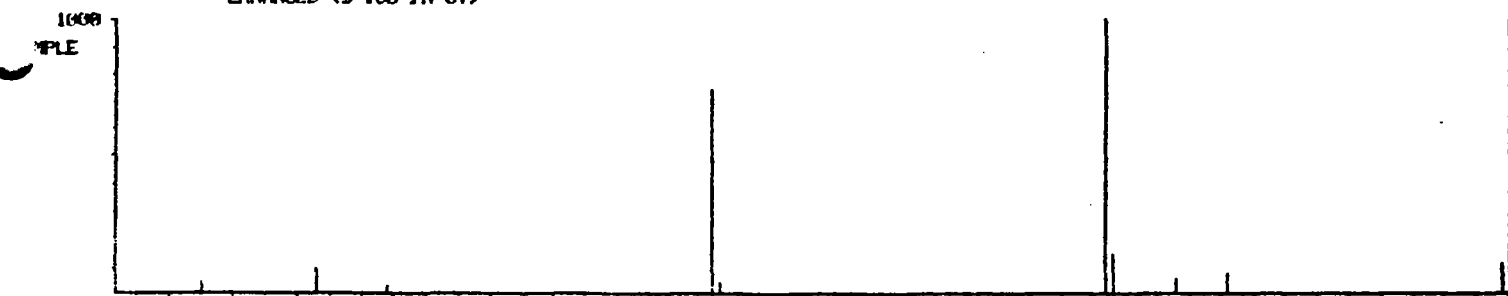
LIBRARY SEARCH
12/21/04 9:35:00 + 31:02
SAMPLE: AB160 800:1.12/10/04-03
ENHANCED (5 158 2H 0T)

DATA: 2EU12051C01 #1062 BASE M/E: 252
CALI: F2CAL # 1 RIC: 2467.

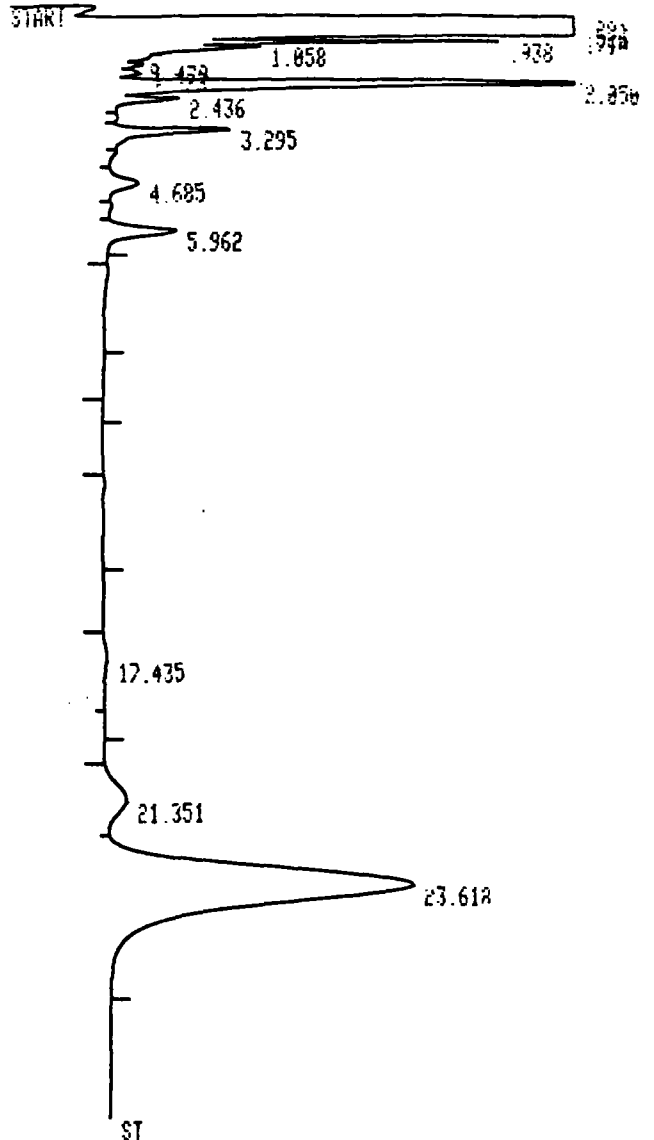


LIBRARY SEARCH
12/21/84 9:35:00 + 31:41
SAMPLE: AB168 800:1,12/18/84-DA
ENHANCED (S 158 2H 8T)

DATA: 2E012851C01 #1981
CAL1: F2CN # 1
BASE ME: 197
RIC: 4775.



0030



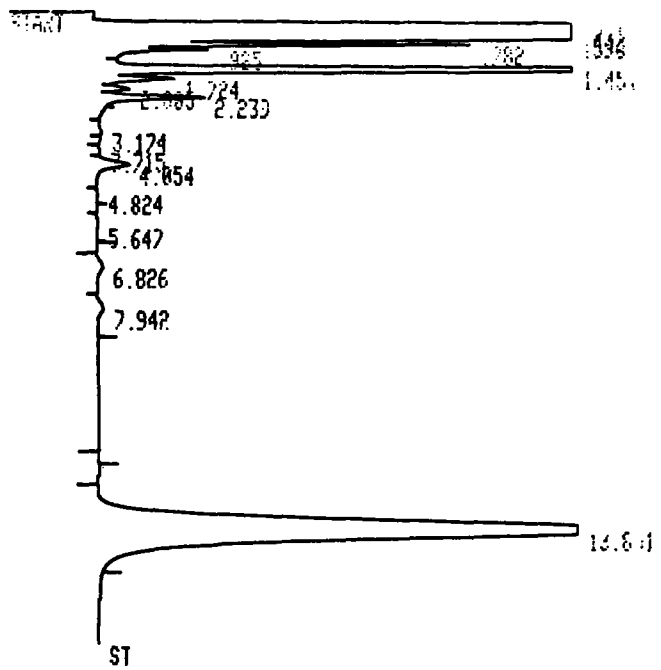
CASE NUMBER 2633
 SAMPLE ID AB 160
 VOLUME INJECTED 2ul
 COLUMN MP

3673

RUN # 150 FEB/11/85 19:22:13
 WORKFILE ID: C 5-2-50211-15 2ul
 WORKFILE NAME: 8412051-01A 800ul
 ID: 5-1-2-84 RM MP2 Ret.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.291	1975329	SBH	0.096	52.099
0.526	296229	DTBR	0.071	7.813
0.714	1261593	DSHB	0.073	33.274
0.938	35731	DTBV	0.069	0.942
1.058	9258	DTVB	0.111	0.244
1.479	1121	D BP	0.082	0.030
1.723	1294	D PY	0.100	0.034
2.050	137326	VV	0.126	3.622
2.436	7213	VP	0.134	0.190
3.295	14238	VV	0.194	0.376
4.685	3657	PV	0.332	0.097
5.962	8332	PB	0.290	0.220
17.435	557	BV	0.802	0.315
21.351	2682	BV	0.957	0.071
23.618	36929	VB	1.168	0.974

TOTAL HGHT= 3791500
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB160
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 386 FEB/17/85 19:47:34
 ID 1-1-1-85 1-1-50217-02 Jul
 8412051-01A
 Run SP Part.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.261	2416720	SBH	0.135	27.478
0.443	1600145	DSHH	0.121	18.194
0.596	2356901	NSHH	0.106	20.798
0.782	289772	DTBP	0.068	3.295
0.925	60205	DTPB	0.070	0.680
1.451	1312692	SHB	0.135	14.925
1.724	49796	DTBP	0.103	0.560
2.005	18336	TPV	0.106	0.209
2.239	93638	TVB	0.128	1.060
3.174	2609	TBY	0.226	0.030
3.715	2291	TPV	0.174	0.020
4.054	30696	TVP	0.218	0.349
4.824	844	TTP	0.190	0.016
5.647	1346	TVB	0.346	0.015
6.826	5682	BY	0.367	0.060
7.942	6728	VB	0.385	0.077
13.851	546690	PB	0.585	6.216

TOTAL HGHT= 8795100
 MUL FACTOR= 1.0000E+00

TRIP BLANK
Sample Number
AB161

Organics Analysis Data Sheet
(Page 1)

0032

Laboratory Name: Radian
Lab Sample ID No: 4ER12051V02
Sample Matrix: Water
Data Release Authorized By: Lapitkov

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 12-13-84

Conc/Dil Factor: 1:1 pH

Percent Moisture: 100%

Percent Moisture (Decanted):

*all for ET
5/10/84*

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u J
74-83-9	Bromomethane	10u J
75-01-4	Vinyl Chloride	10u J
75-00-3	Chloroethane	10u J
75-09-2	Methylene Chloride	2000u J 5u
67-64-1	Acetone	300u J 10u
75-15-0	Carbon Disulfide	5u J
75-35-4	1, 1-Dichloroethene	5u J
75-34-3	1, 1-Dichloroethane	5u J
156-60-5	Trans-1, 2-Dichloroethene	5u J
67-66-3	Chloroform	45 J R
107-06-2	1, 2-Dichloroethane	5u J
78-93-3	2-Butanone	R 50 J R
71-55-6	1, 1, 1-Trichloroethane	5u 25u J
56-23-5	Carbon Tetrachloride	5u J
108-05-4	Vinyl Acetate	10u J
75-27-4	Bromodichloromethane	5u J

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u J
78-87-5	1, 2-Dichloropropane	5u J
10061-02-6	Trans-1, 3-Dichloropropene	5u J
79-01-6	Trichloroethene	5 J
124-48-1	Dibromochloromethane	5u J
79-00-5	1, 1, 2-Trichloroethane	5u J
71-43-2	Benzene	5u J
10061-01-5	cis-1, 3-Dichloropropene	5u J
110-75-8	2-Chloroethylvinylether	10u J
75-25-2	Bromoform	5u J
591-78-6	2-Hexanone	10u J
108-10-1	4-Methyl-2-Pentanone	10u J
127-18-4	Tetrachloroethene	5u J
108-88-3	Toluene	5u J
108-90-7	Chlorobenzene	5u J
100-41-4	Ethylbenzene	5u J
100-42-5	Styrene	5u J
	Total Xlenes	5u J

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10U.

- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

0033

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB161

Organics Analysis Data Sheet
(Page 2)

trip blank

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

BNA not analyzed -
(not shipped?)
an

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

AB161

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)Date Extracted/Prepared: ~~_____~~Date Analyzed: ~~_____~~ NR

Conc/Dil Factor: _____

CAS Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul) V_s _____ or W_s _____ V_t _____ V_i _____

Sample Number
AB161

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	No Volatile Compounds Detected			
2.	No Semivolatile Compounds Detected			
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.				

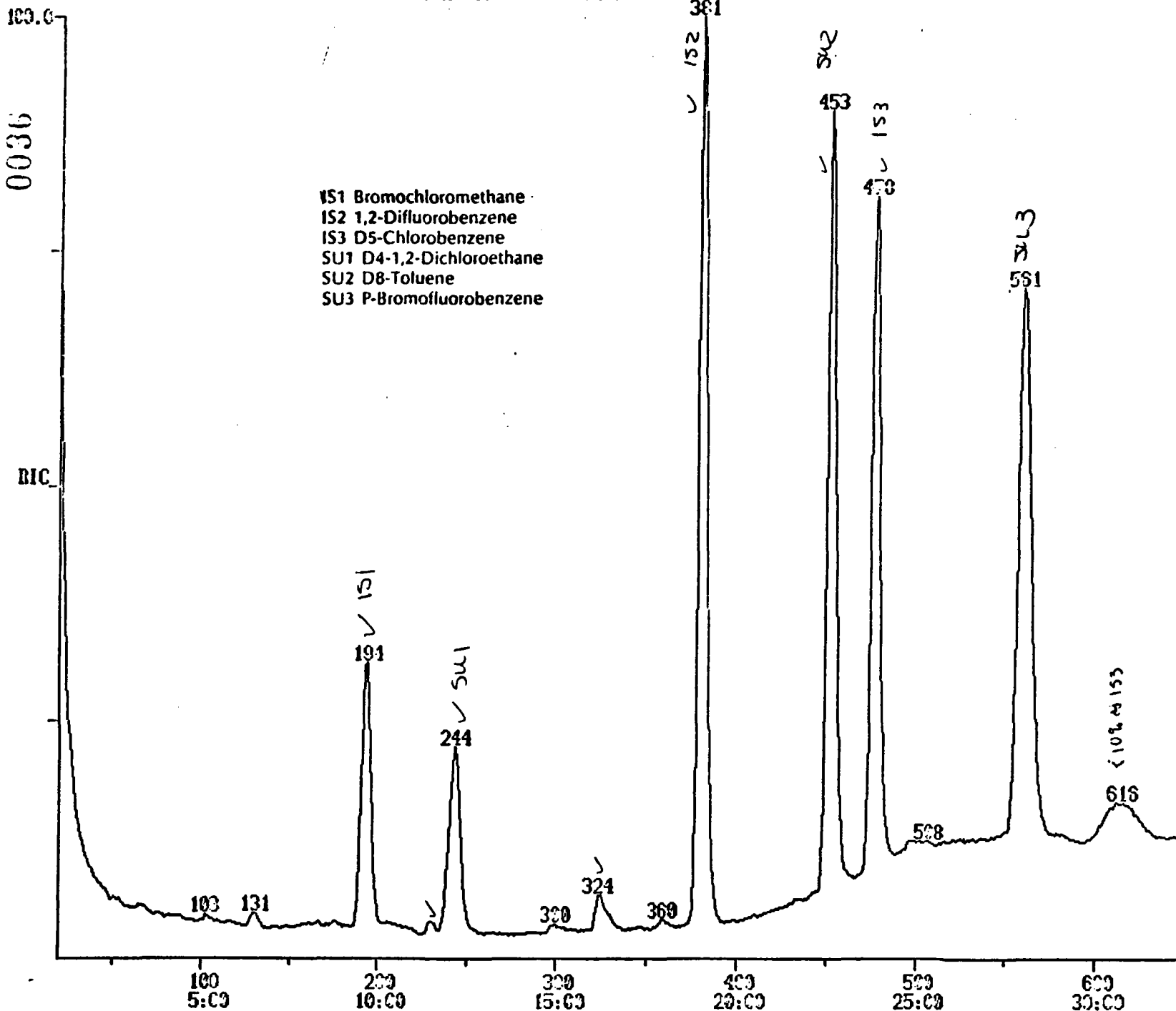
12/13/81 16:44:00

CALI: F4CAL 01

SAMPLE: F4.D.EPA.AB191.CO.V.1:1.MAS

RANGE: G 1.659 LABEL: N 0.4.0 CUAN: A 0.1.0 BASE: U 20. 3

290301.



DATA: 4ER12051V02.TI

12/13/84 16:44:00

SAMPLE: F4.D,EPA,AB161,00,V,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

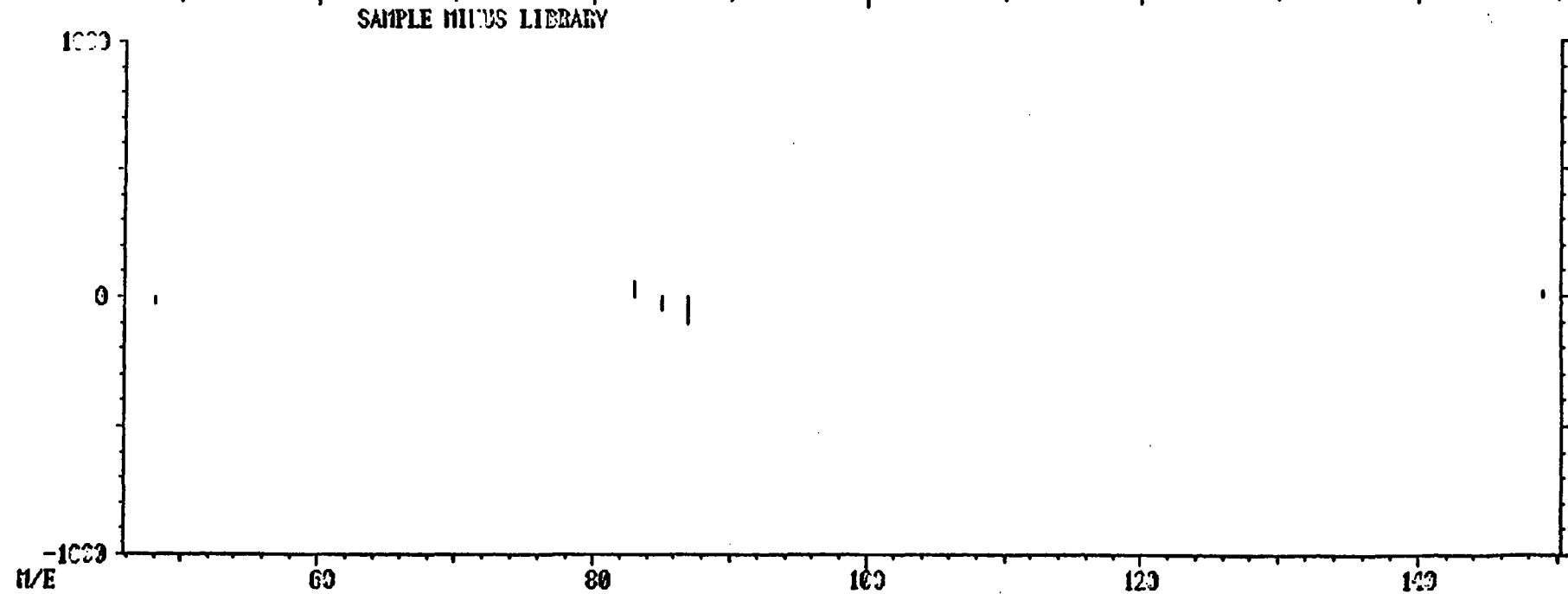
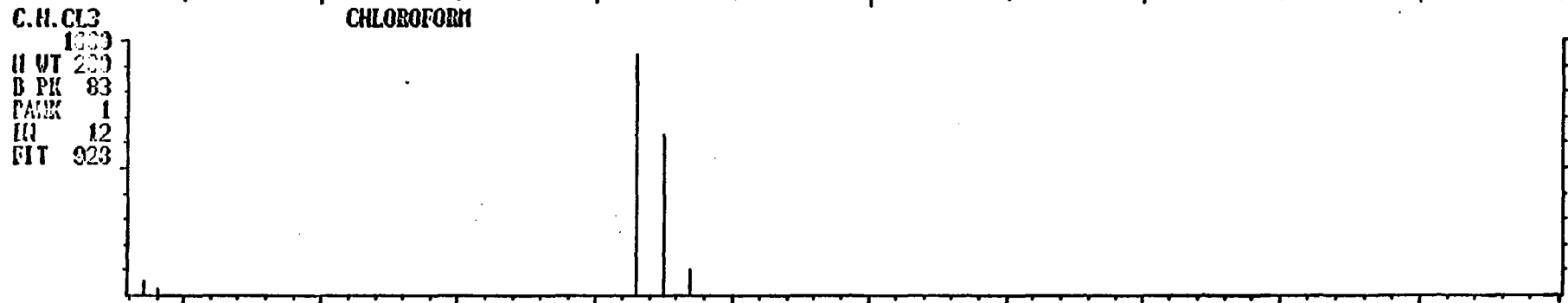
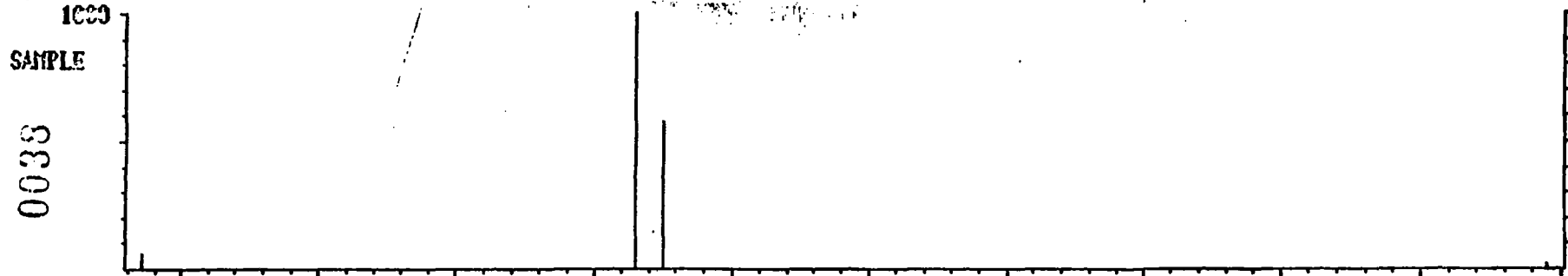
NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	CHLOROFORM
8	2-BUTANONE
9	TRICHLOROETHENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	129	193	9:39	1	1.000	A BB	69559.	50.000 UG/L	10.90
2	67	244	12:12	1	1.264	A BB	90978.	104.485 %	22.77
3	114	381	19:03	3	1.000	A BB	659459.	50.000 UG/L	10.90
4	117	477	23:51	4	1.000	A BB	366784.	50.000 UG/L	10.90
5	93	453	22:39	4	0.950	A BB	516866.	103.324 %	22.52
6	95	561	20:03	4	1.176	A BB	314006.	86.895 %	18.94
7	83	231	11:33	1	1.197	A BB	15628.	3.733 UG/L	0.81
8	43	240	12:00	3	0.630	A?VV	19306.	5.479 UG/L	1.19
9	130	324	16:12	3	0.850	A BB	10949.	4.946 UG/L	1.08

12/13/04 16:44:00 + 11:33
SAMPLE: F4.D.EPA.AB101.CO.V.1:1.MAS
ENHANCED (S 15B 2N 01)

CALI: F4CAL 0 1

RIC: 4383.



10/15/84 6:32:00 + 9:57
SAMPLE: F4.D.VER.C01C0.C0.V.MA:CA.MAS
DATA: 4ER12051V02 0231

CALI: F4CAL 01

BIC: 210943.7 11359.

SECOND SPECTRUM
100.0

0033

84224.

50.0

100.0

84224.

m/e

50

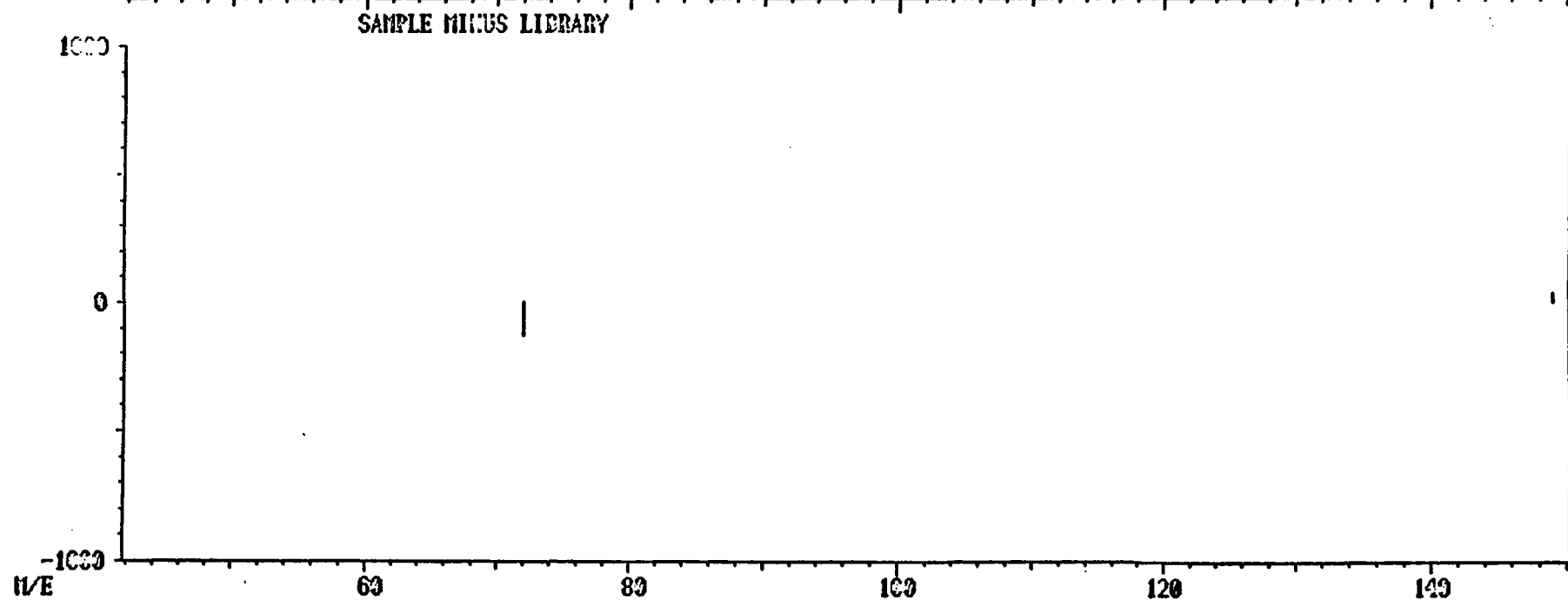
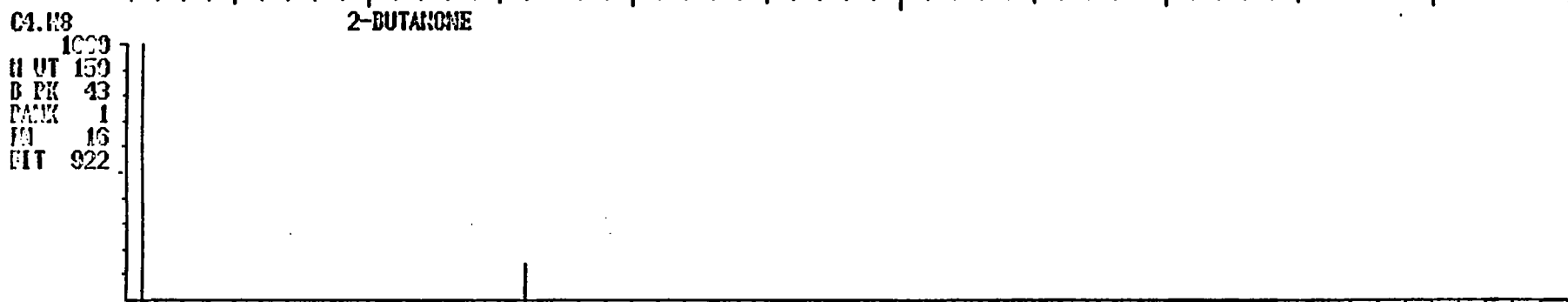
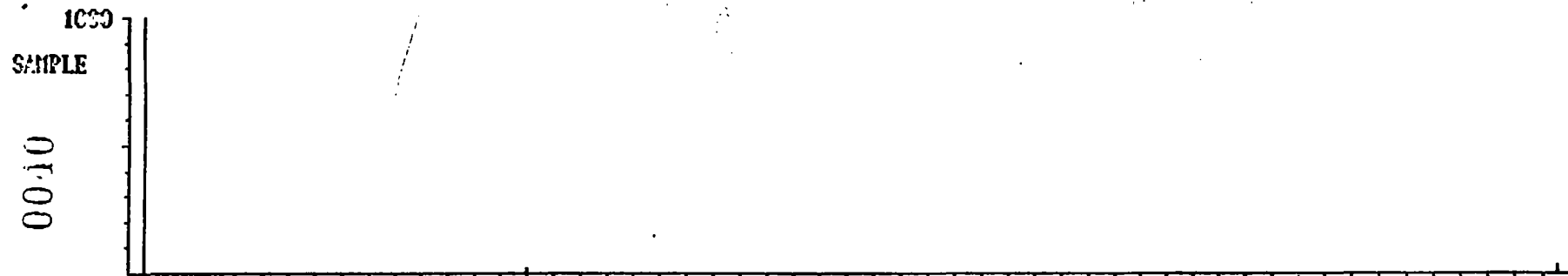
100



12/13/84 16:44:00 + 12:00
SAMPLE: F4.D.EPA.AB131.C0.V.1:1.MAS
ENHANCED (S 15B 211 07)

CAL: F4CAL 0 1

RIC: 1613.

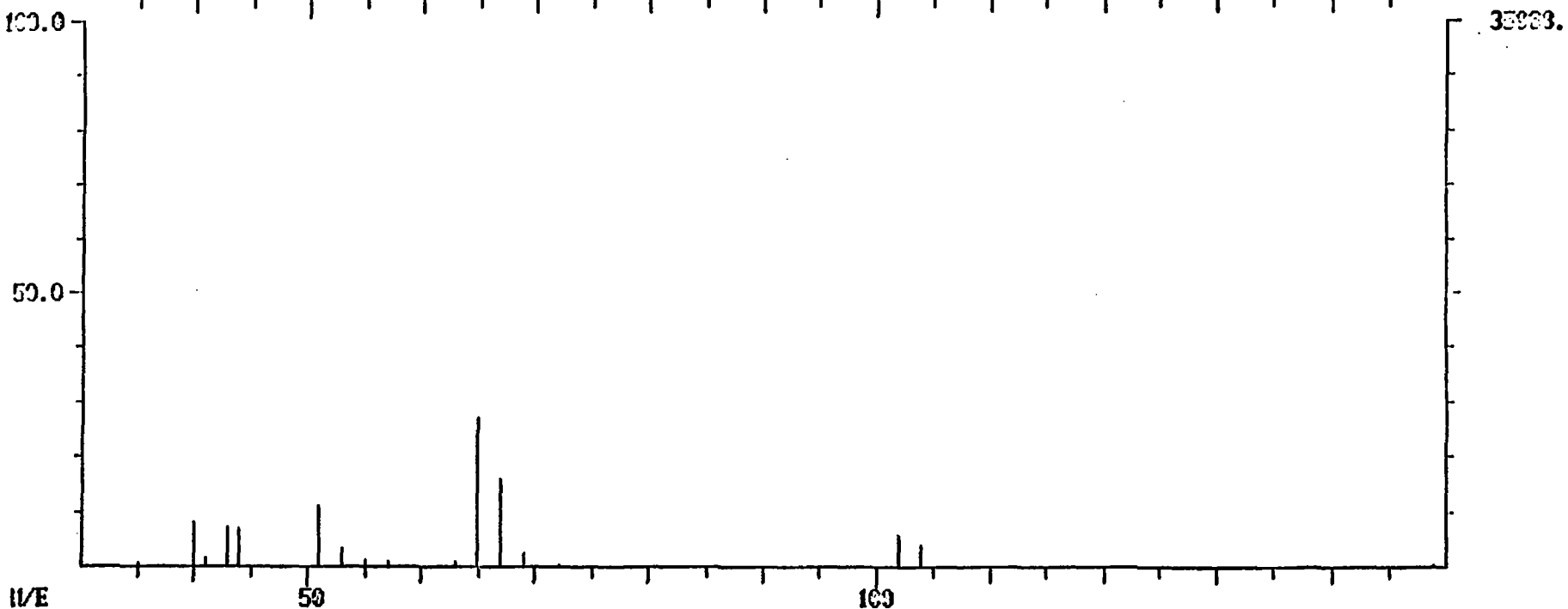
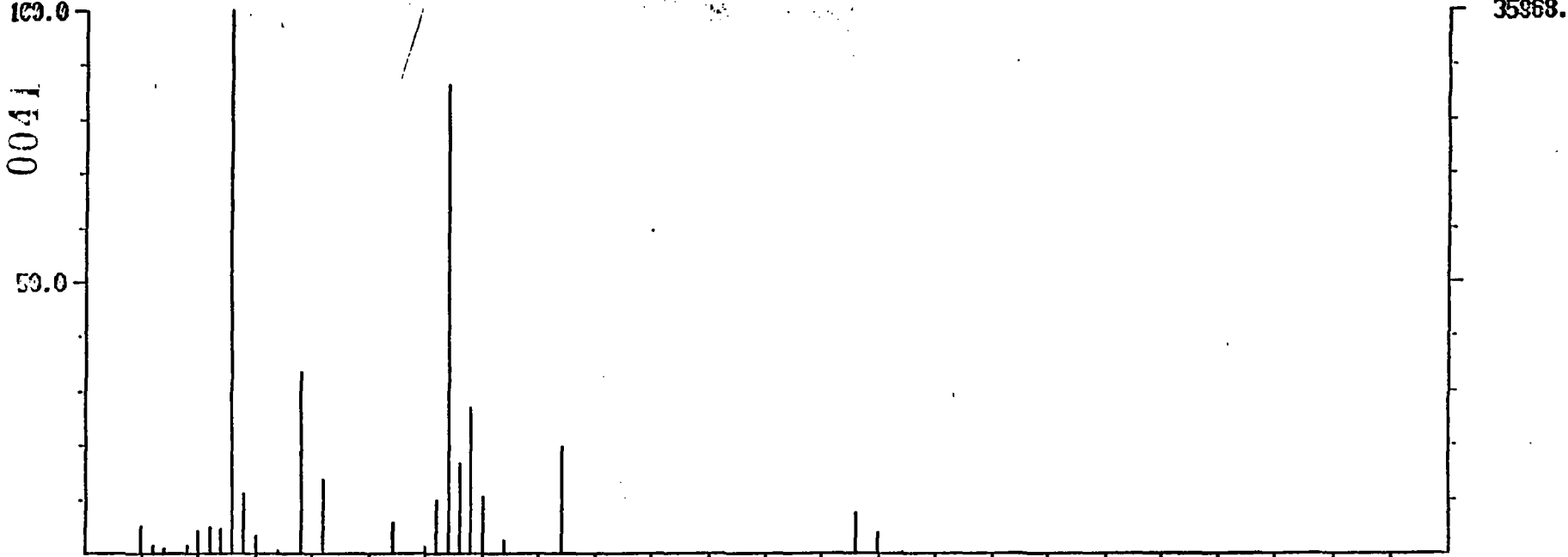


DATA FILE SELECTION
10/15/84 6:32:00 + 10:48
SAMPLE: F4.D. VER. C0100. CO. V. MA: MA. NAS
DATA: 4ER12051V02 0240

CALL: F4CAL 01

RIC: 135679.7 35987.

SECOND SPECTRUM

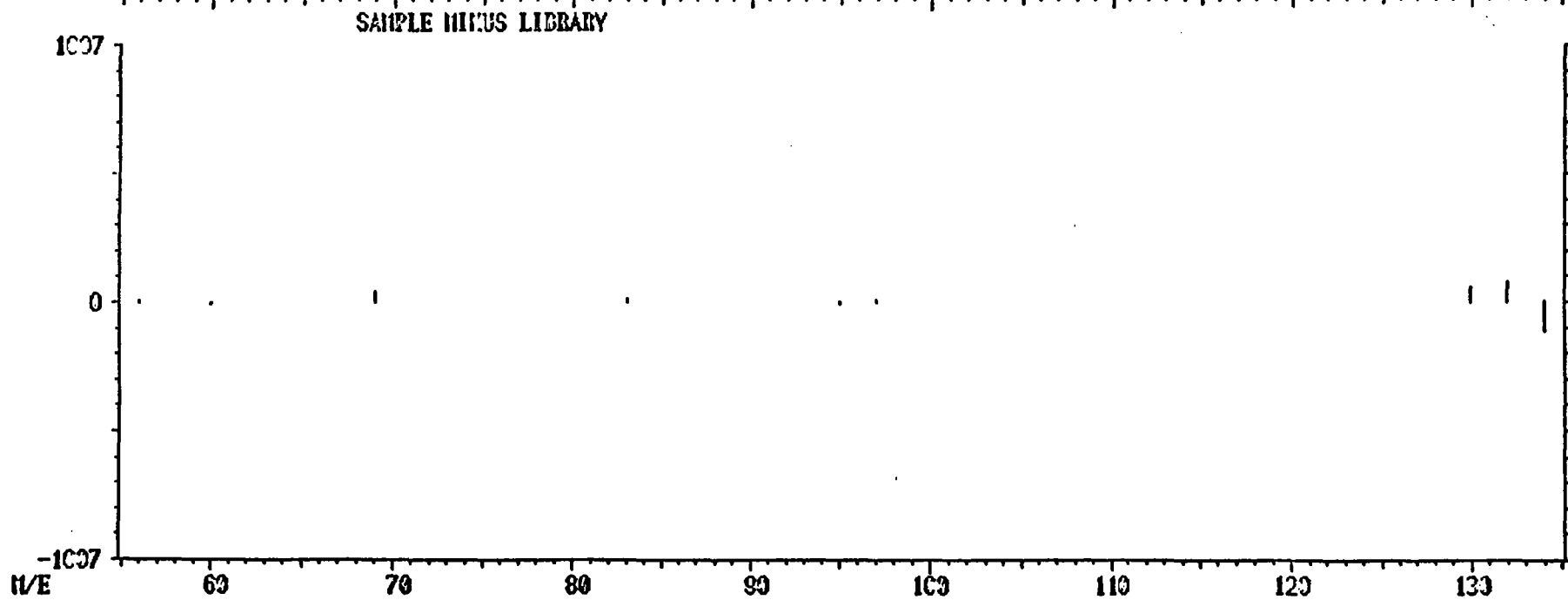
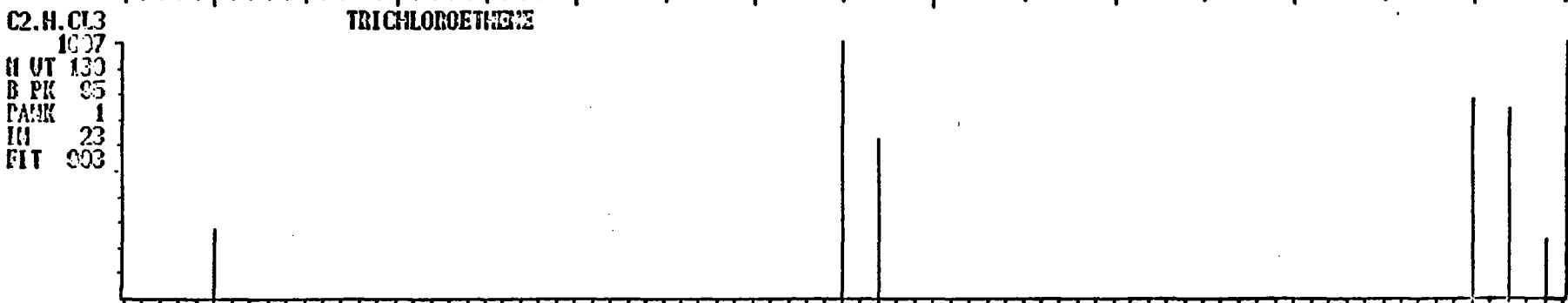
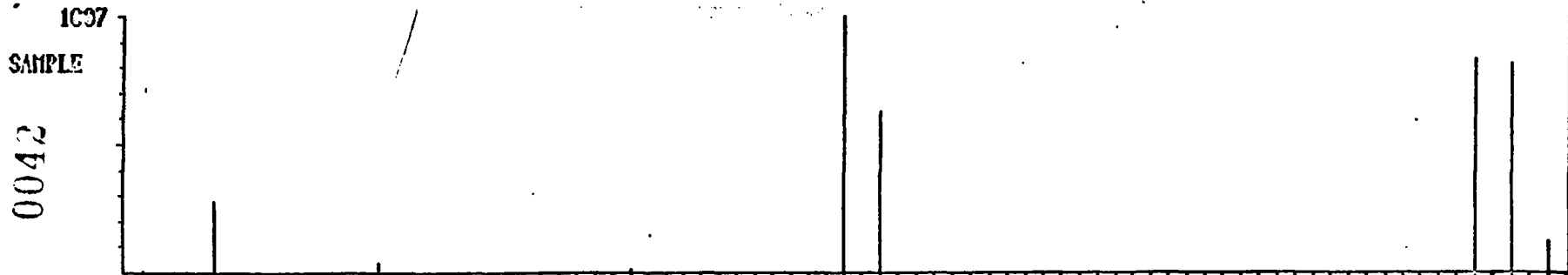


m/e

12/13/84 16:44:09 + 16:12
SAMPLE: F4.D.EPA.AB161.CO.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL 0 1

RIC: 9993.

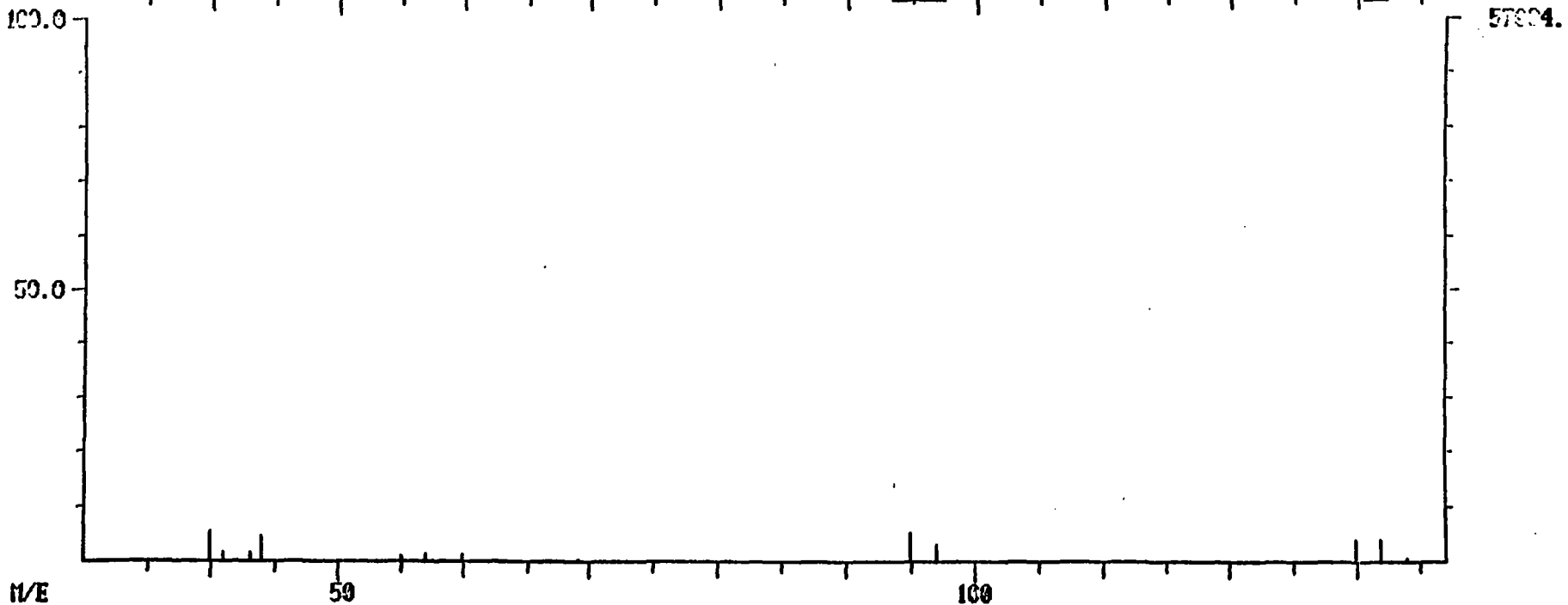
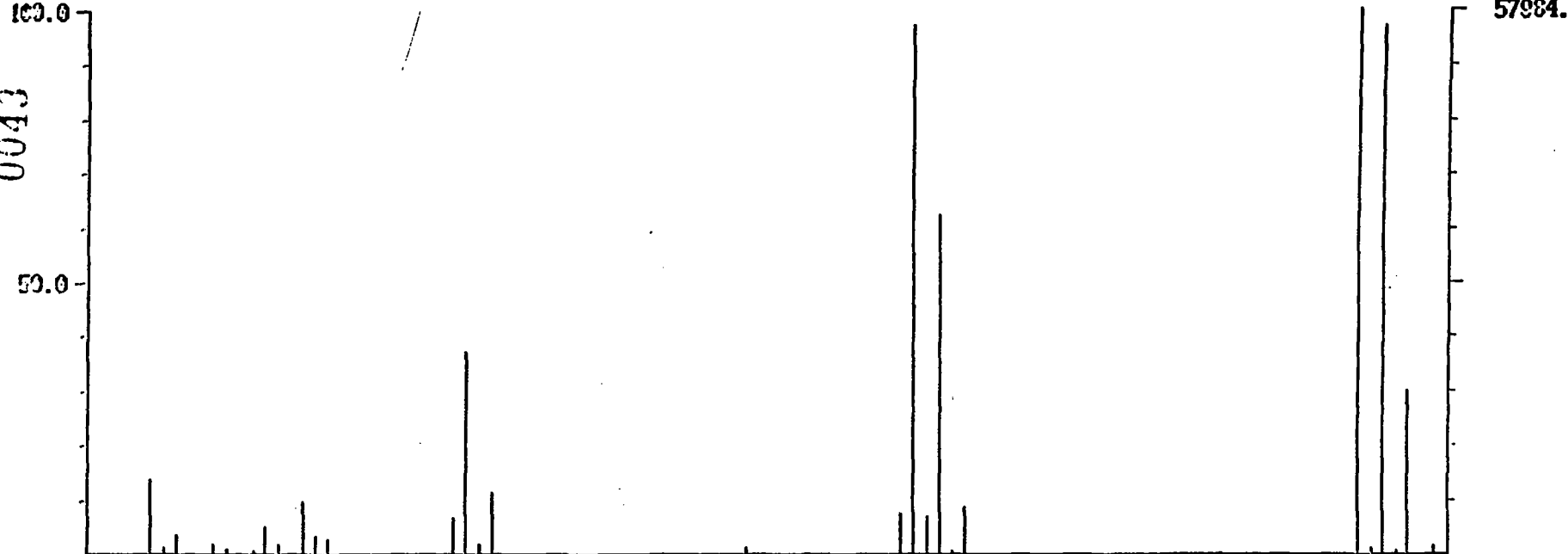


10/15/84 6:32:03 + 15:03
SAMPLE: F4.D.VER.C01C0.CO.V.MA:HA.HAS
DATA: 4ER12051V02 #324

CALI: F4CAL 01

RIC: 299519.7 19231.

SECOND SPECTRUM



Organics Analysis Data Sheet
(Page 1)

10122

0041

Laboratory Name: Radian
 Lab Sample ID No: 4ER12051V03
 Sample Matrix: Water
 Data Release Authorized By: Z. Peterson

Case No: 3633
 OC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
 Date Extracted/Prepared: _____
 Date Analyzed: 12-13-84
 Conc/Dil Factor: 1:1 pH _____
 Percent Moisture: 100%
 Percent Moisture (Decanted): _____

*accept
5/10/85*

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u J
74-83-9	Bromomethane	10u J
75-01-4	Vinyl Chloride	10u J
75-00-3	Chloroethane	10u J
75-09-2	Methylene Chloride	2000 UJ 5u
67-64-1	Acetone	430 UJ 10u
75-15-0	Carbon Disulfide	5u J
75-35-4	1, 1-Dichloroethene	5u J
75-34-3	1, 1-Dichloroethane	5u J
156-60-5	Trans-1, 2-Dichloroethene	5u J
67-66-3	Chloroform	45 J R
107-06-2	1, 2-Dichloroethane	5u J
78-93-3	2-Butanone	R 8+05 R
71-55-6	1, 1, 1-Trichloroethane	17 R
56-23-5	Carbon Tetrachloride	5u J
108-05-4	Vinyl Acetate	10u J
75-27-4	Bromodichloromethane	5u J

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u J
78-87-5	1, 2-Dichloropropane	5u J
10061-02-6	Trans-1, 3-Dichloropropene	5u J
79-01-6	Trichloroethene	31 J
124-48-1	Dibromochloromethane	5u J
79-00-5	1, 1, 2-Trichloroethane	5u J
71-43-2	Benzene	5u J
10061-01-5	cis-1, 3-Dichloropropene	5u J
110-75-8	2-Chloroethylvinylether	10u J
75-25-2	Bromoform	5u J
591-78-6	2-Hexanone	10u J
108-10-1	4-Methyl-2-Pentanone	10u J
127-18-4	Tetrachloroethene	5u J
108-88-3	Toluene	5u J
108-90-7	Chlorobenzene	5u J
100-41-4	Ethylbenzene	5u J
100-42-5	Styrene	5u J
	Total Xlenes	5u J

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10% of the detection limit.

- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

0045

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB 162

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-21-84Conc/Dil Factor: 1000:1

all in 5
7/10/85

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1,3-Dichlorobenzene	10u
106-46-7	1,4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1,2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2,4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2,4-Dichlorophenol	10u
120-82-1	1,2,4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2,4,6-Trichlorophenol	10u
95-95-4	2,4,5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2,4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2,4-Dinitrotoluene	10u
606-20-2	2,6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4,6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u 105 R
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	105
85-68-7	Butylbenzylphthalate	10u
91-94-1	3,3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u 105 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1,2,3-cd)Pyrene	10u
53-70-3	Dibenz(a,h)Anthracene	10u
191-24-2	Benzo(g,h,i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB162

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 2-11-85
Conc/Dil Factor: 1000 ml : 5 ml

*acc'd ES
5/10/85*

CAS Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

- V_i = Volume of extract injected (ul)
- V_s = Volume of water extracted (ml)
- W_s = Weight of sample extracted (g)
- V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 uL V_i 2 uL

 SAMPLE NUMBER:
 AB162

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (<u>UG/L</u>) OR UG/K
1	ETHENE, TETRACHLORO	ABN	281	167
2	62108-31-0 HEPTANE, 4-ETHYL-2,2,6,6-TETRAMETHYL-	ABN	447	19
3	29536-77-0 CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	198
4	931-17-9 1,2-CYCLOHEXANEDIOL	ABN	554	85
5	PHENOL, 4-NITRO	ABN	986	18
6	PHENOL, PENTACHLORO	ABN	1102	7
7	6555-24-9 HYDROCINNAMICACID, P-METHOXY-. BETA.-ME	ABN	1908	12
8	7116-86-1 1-HEXENE, 5,5-DIMETHYL-	ABN	2019	3
9.	593-754 2-butanol, 3-methyl-	V	336	17

all p^{nt}
 5/10/85

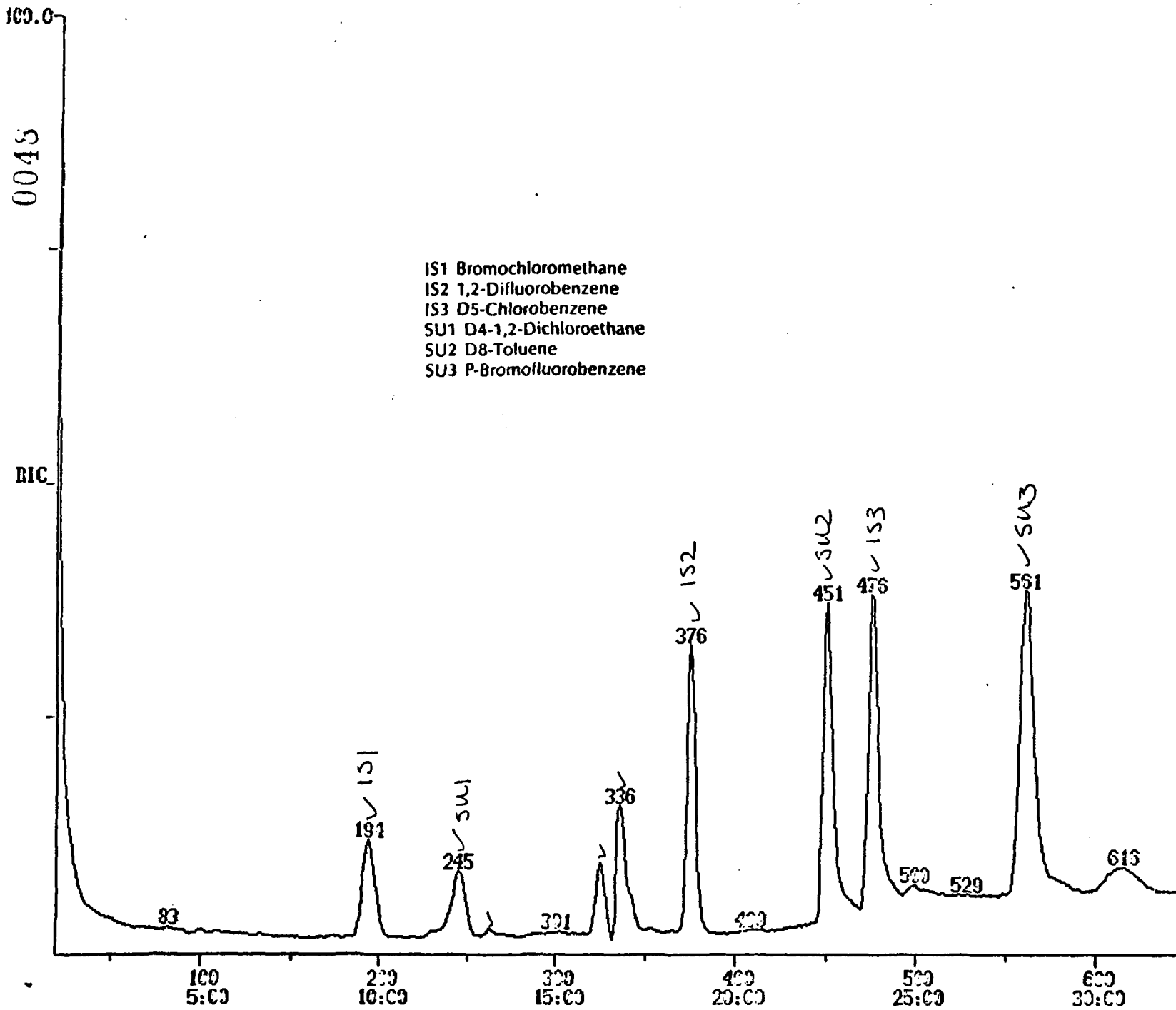
12/13/84 17:21:00

CALI: F4CAL 01

SAMPLE: F4.D.EPA.AB192.CO.V.1:1.MAS

RANGE: G 1.650 LABEL: H 0.4.0 QUAN: A 0.1.0 BASE: U 20. 3

530432.



DATA: 4ER12051V03.TI
 12/13/84 17:21:00
 SAMPLE: F4,D,EPA,AB162,00,V,1:1,NA\$
 SUBMITTED BY: EPA ANALYST: MM

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

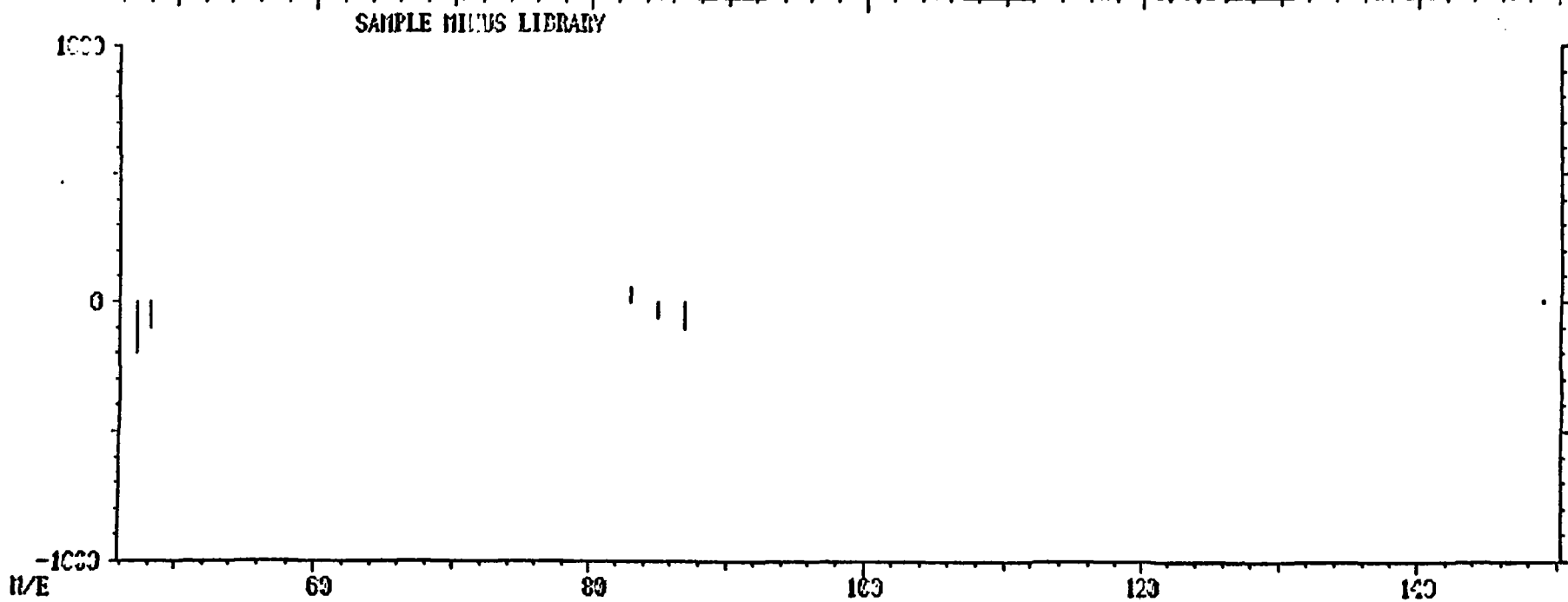
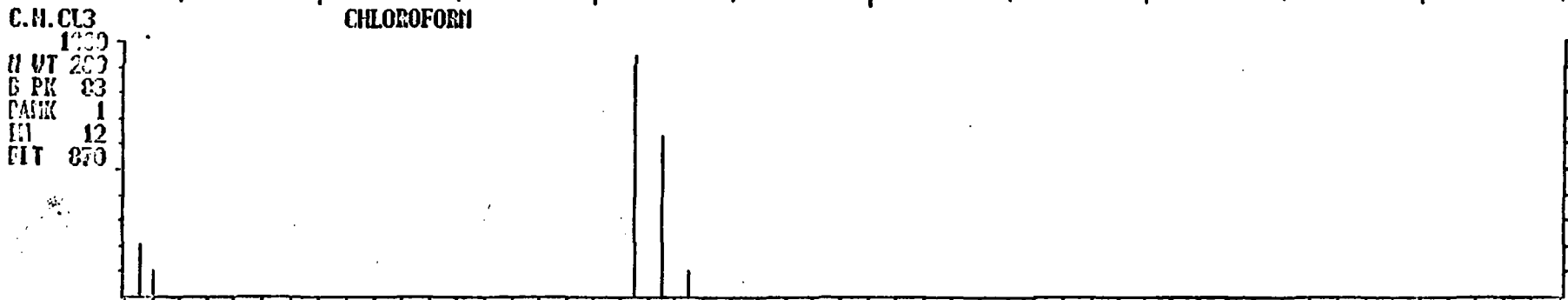
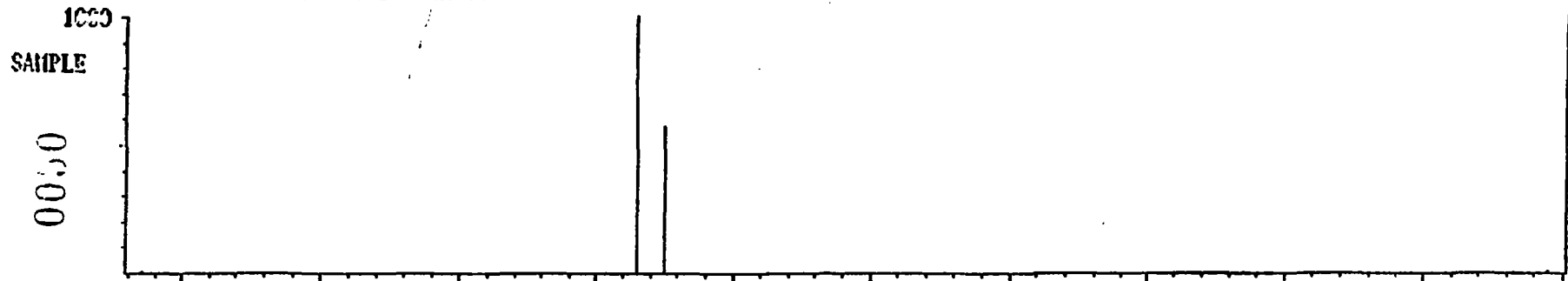
- NO NAME
- 1 (IS1) 74-97-5 BROMOCHLOROMETHANE
- 2 (SU1) SURROGATE D4-1,2-DICHLOROETHANE
- 3 (IS2) DIFLUOROBENZENE-1,2
- 4 (IS3) CHLOROBENZENE-D5
- 5 (SU2) SURROGATE TOLUENE-D8
- 6 (SU3) SURROGATE P-BROMOFLUOROBENZENE
- 7 CHLOROFORM
- 8 2-BUTANONE
- 9 1,1,1-TRICHLOROETHANE
- 10 TRICHLOROETHENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	194	9:42	1	1.000	A BB	62726.	50.000 UG/L	10.30
2	67	245	12:15	1	1.263	A BB	77078.	98.164 %	20.22
3	114	376	18:43	3	1.000	A BB	400347.	50.000 UG/L	10.30
4	117	476	23:43	4	1.000	A BB	397253.	50.000 UG/L	10.30
5	98	451	22:33	4	0.947	A BB	438609.	85.430 %	17.62
6	93	551	23:03	4	1.179	A703	354274.	93.517 %	19.65
7	83	232	11:35	1	1.196	A BB	15742.	4.170 UG/L	0.85
8	43	237	11:51	3	0.630	A7V8	18138.	8.209 UG/L	1.69
9	97	262	13:05	3	0.697	A BB	18046.	16.586 UG/L	3.44
10	130	325	16:15	3	0.864	A BB	43149.	31.130 UG/L	6.41

12/13/84 17:21:00 + 11:30
SAMPLE: F4.D.EPA.AB192.CO.V.1:1.NAS
ENHANCED (S 15B 2H 01)

CAL: F4CAL 0 1

RIC: 3291.

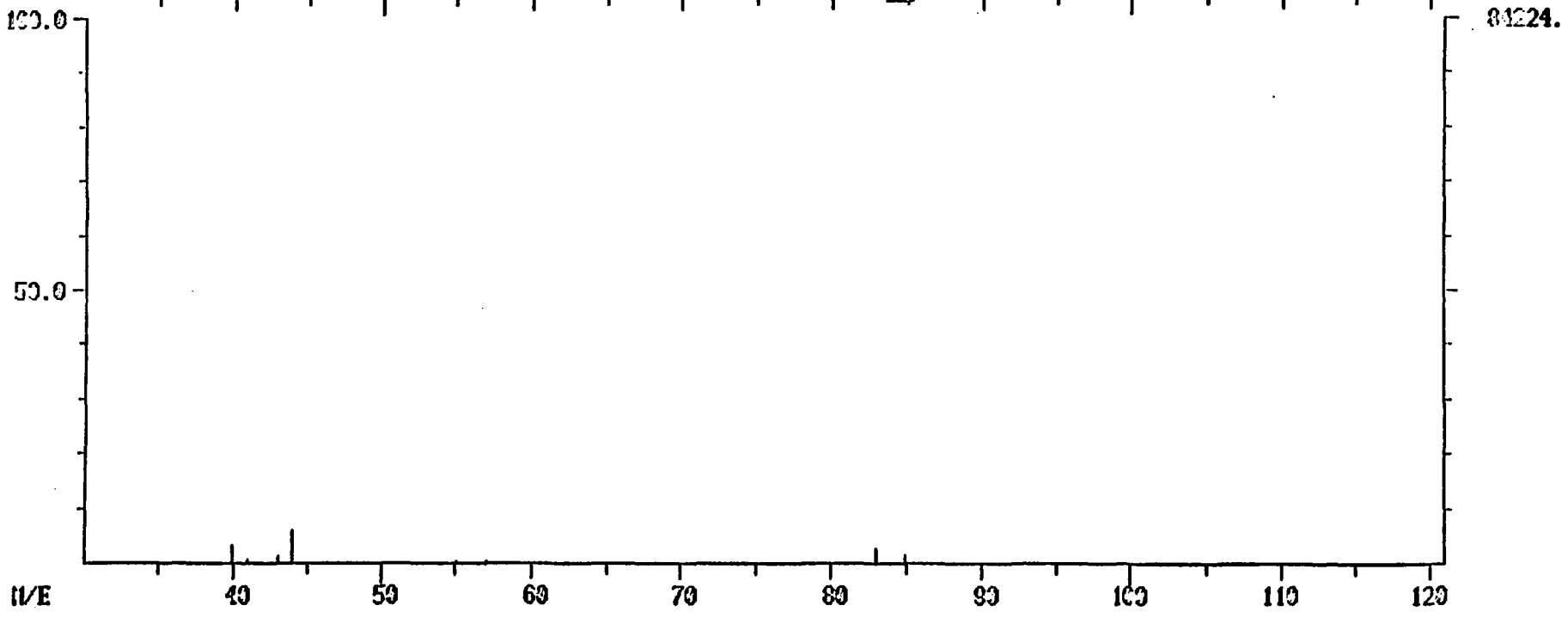
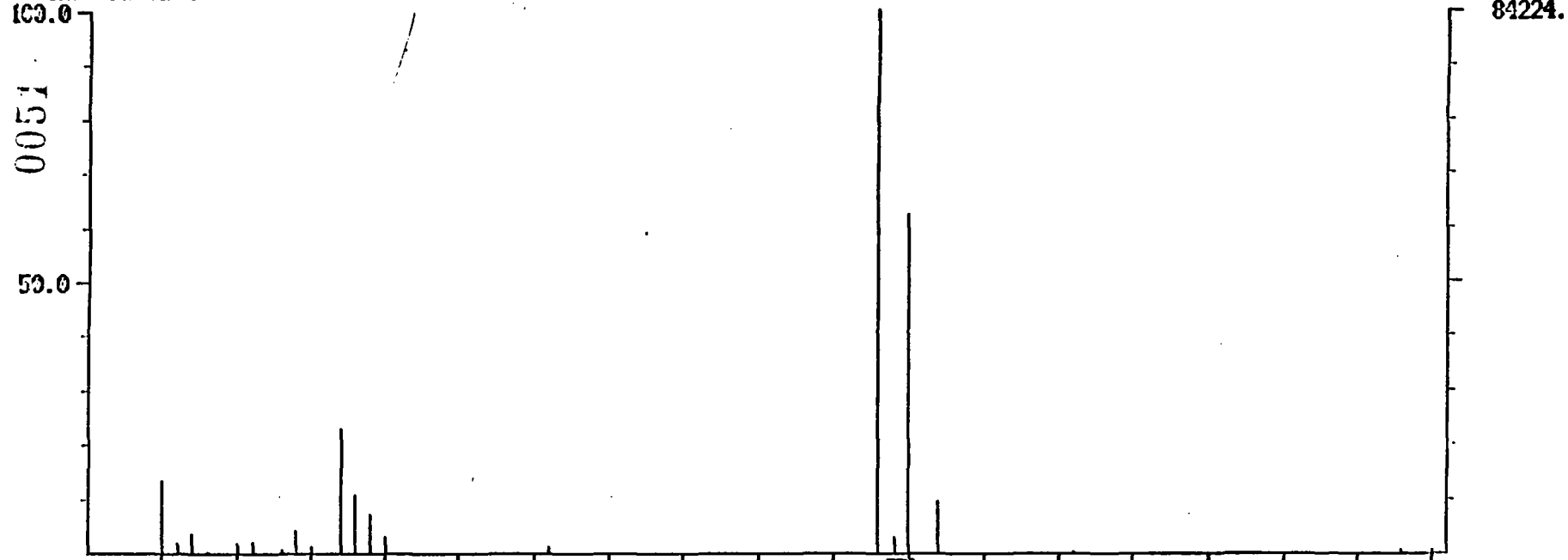


10/15/84 6:32:00 + 9:57
SAMPLE: F4.D.VER.COICQ.CO.V.MA:CA.MAS
DATA: 4ER12651V03 0232

CALI: F4CAL 01

RIC: 210943.7 13359.

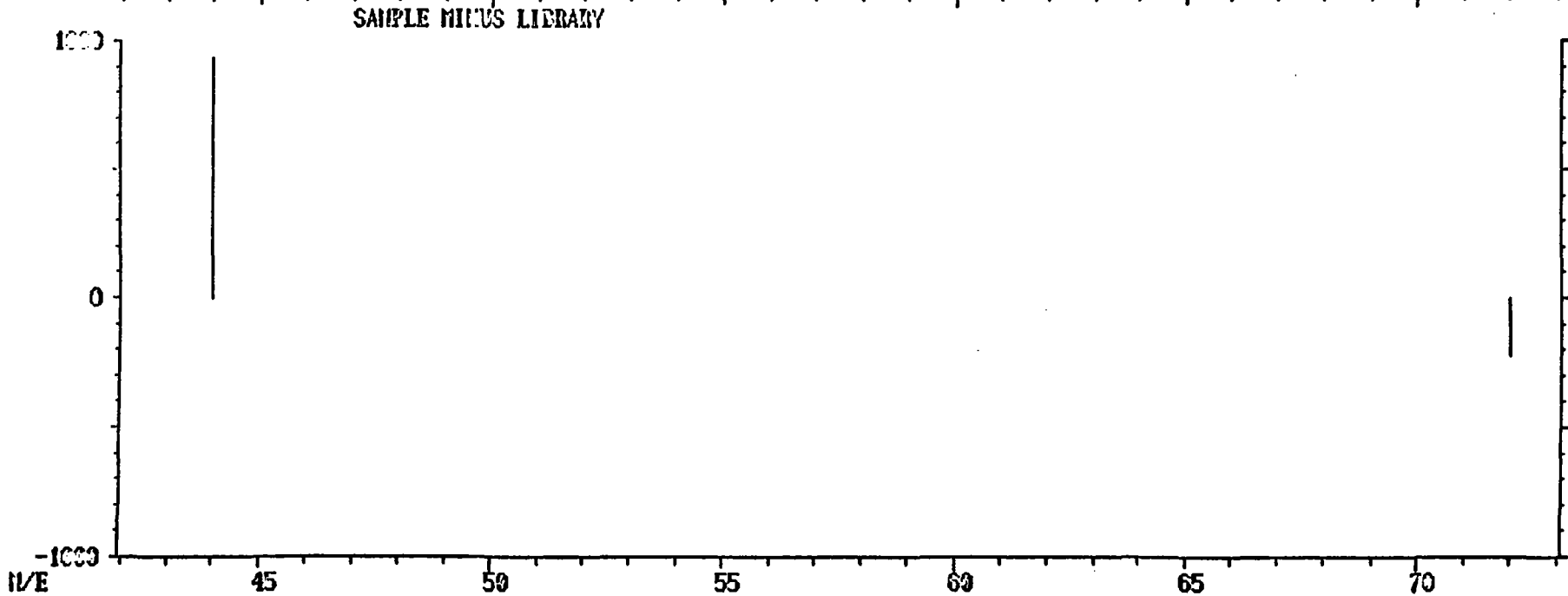
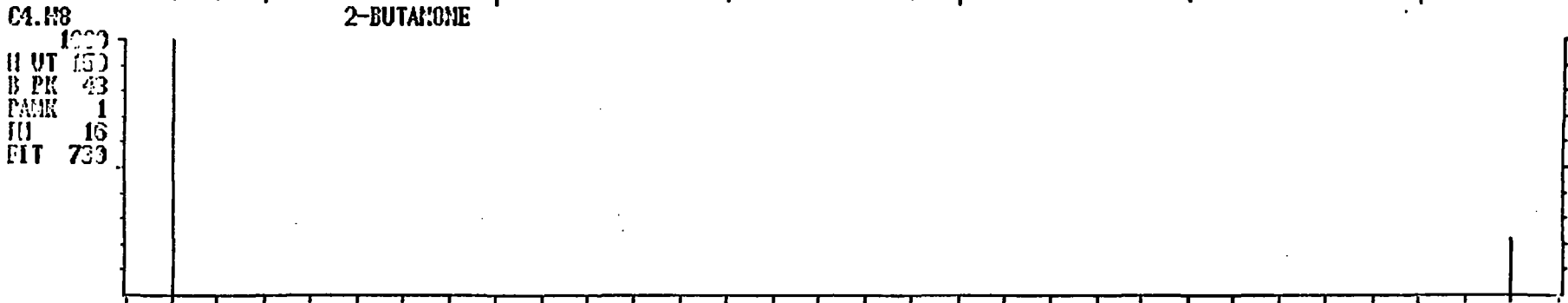
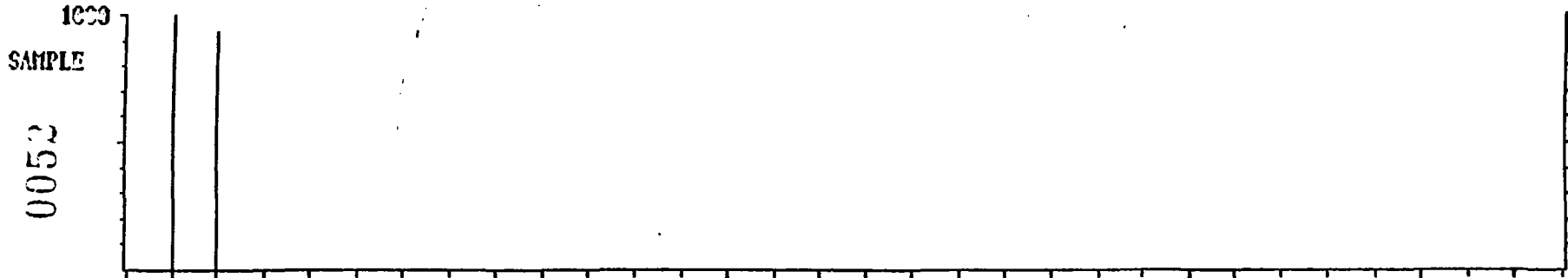
SECOND SPECTRUM



12/13/84 17:21:00 + 11:51
SAMPLE: F4.D.EPA.AB162.CO.V.1:1.MAS
ENHANCED (S 15B 21 01)

CALI: F4CAL 0 1

RIC: 658.

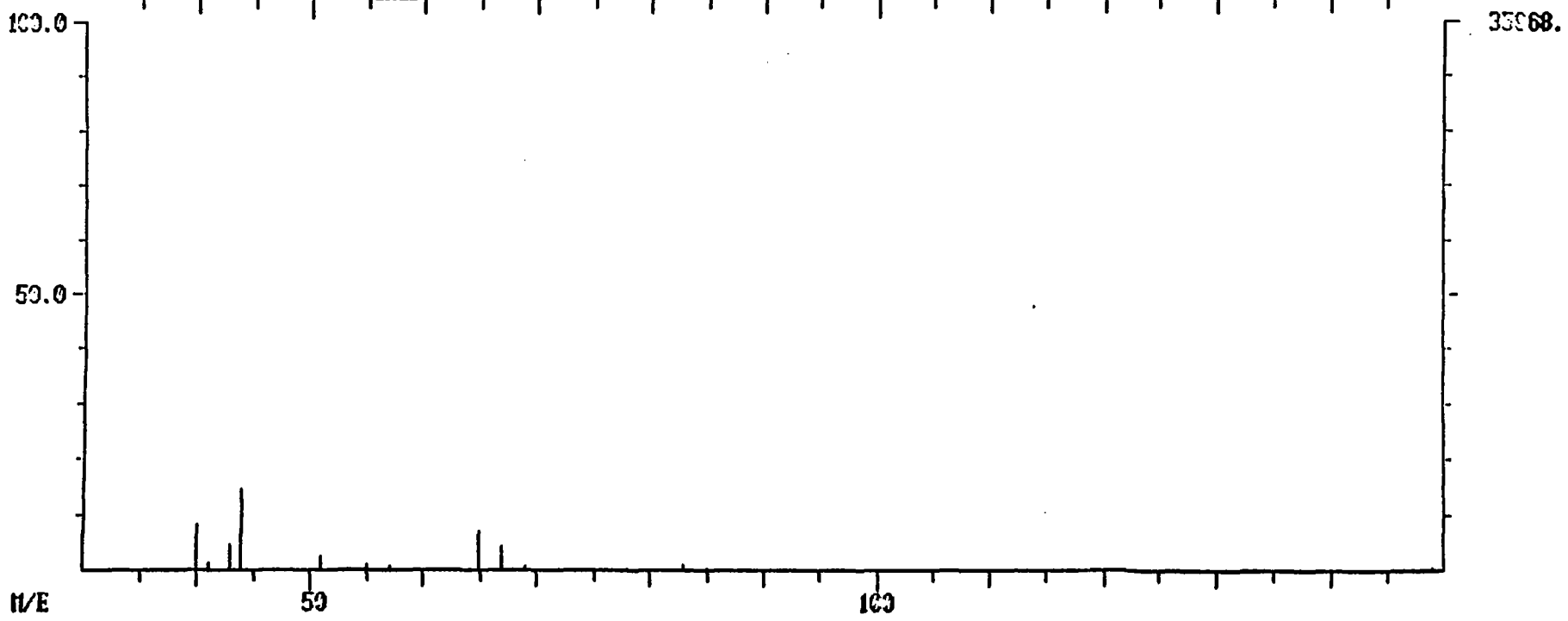
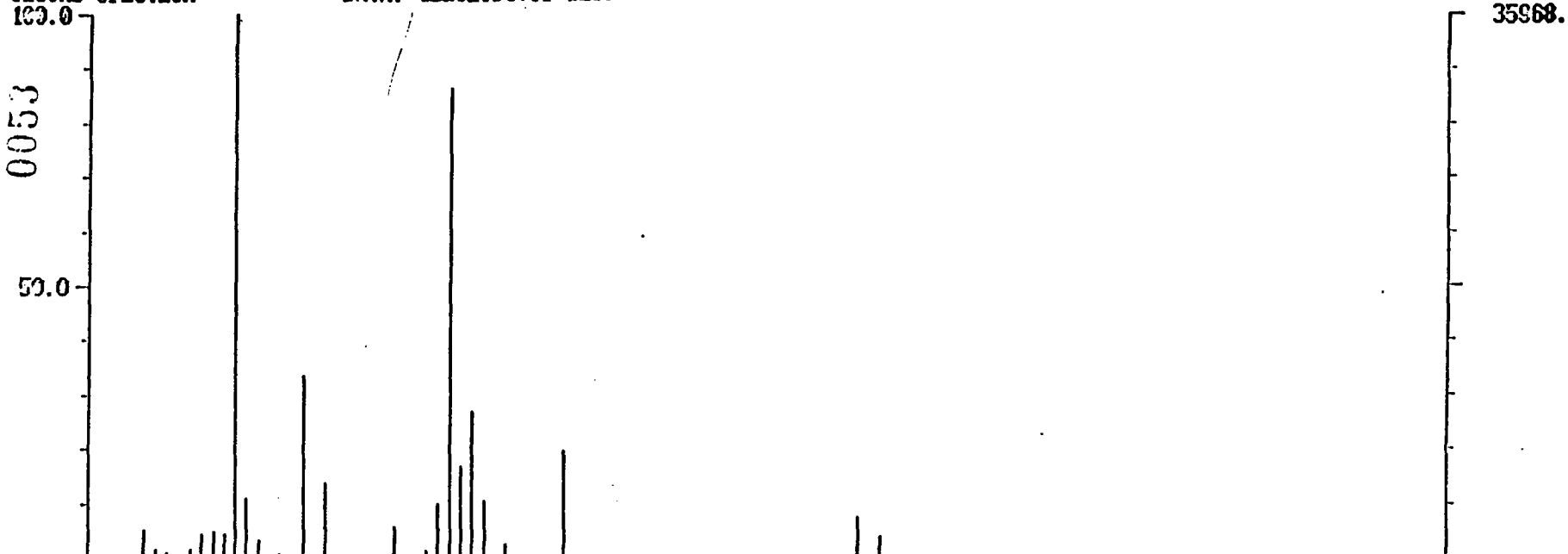


DATE TIME SECTID
10/15/84 6:32:00 + 10:48
SAMPLE: F4.D.VER.COIC9.CO.V.NA:NA.NAS
DATA: 4E12051V03 0237

CALI: F4CAL 01

RIC: 135679.7 15383.

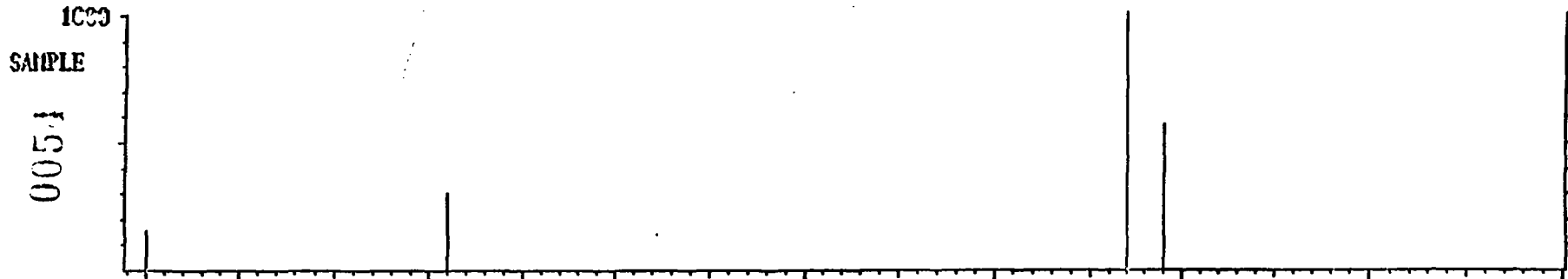
SECOND SPECTRUM



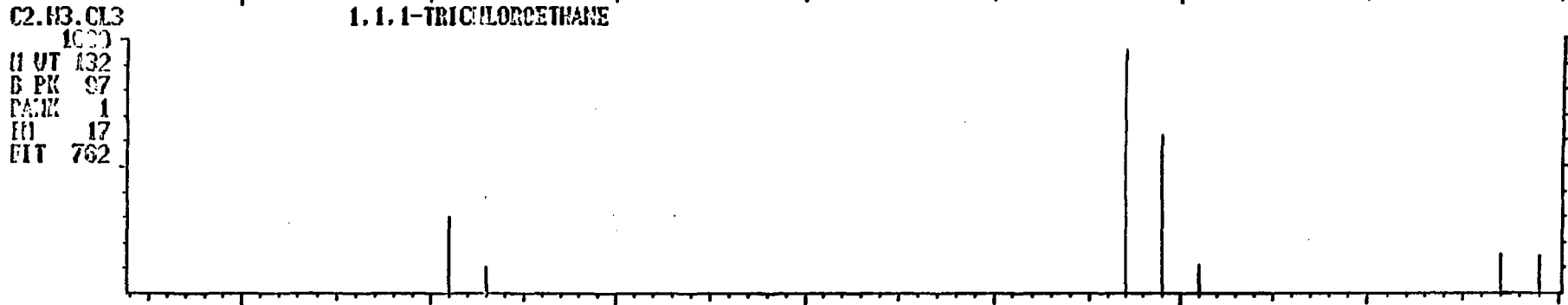
12/13/84 17:21:00 + 13:03
SAMPLE: F4.D.EPA.AB102.C0.V.1:1.NAS
ENHANCED (S 15B 2N 0T)

CALI: F4CAL 0 1

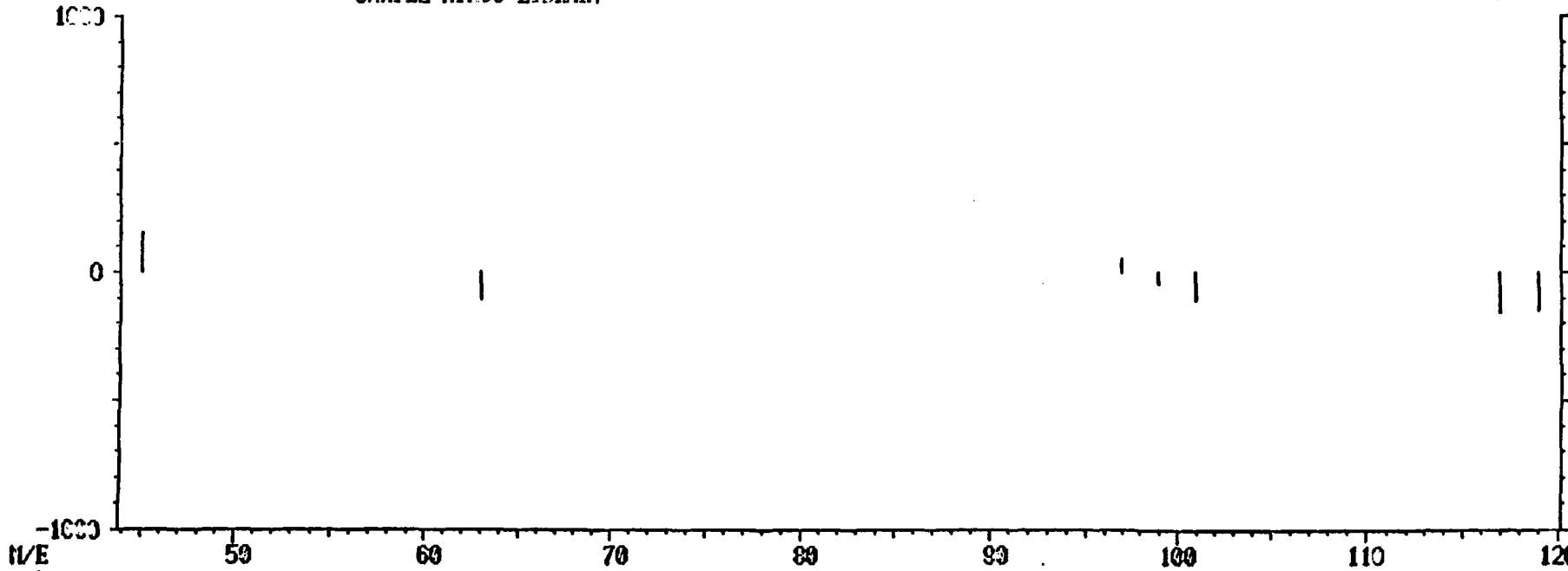
RIC: 3811.



1,1,1-TRICHLOROETHANE



SAMPLE NIBUS LIBRARY

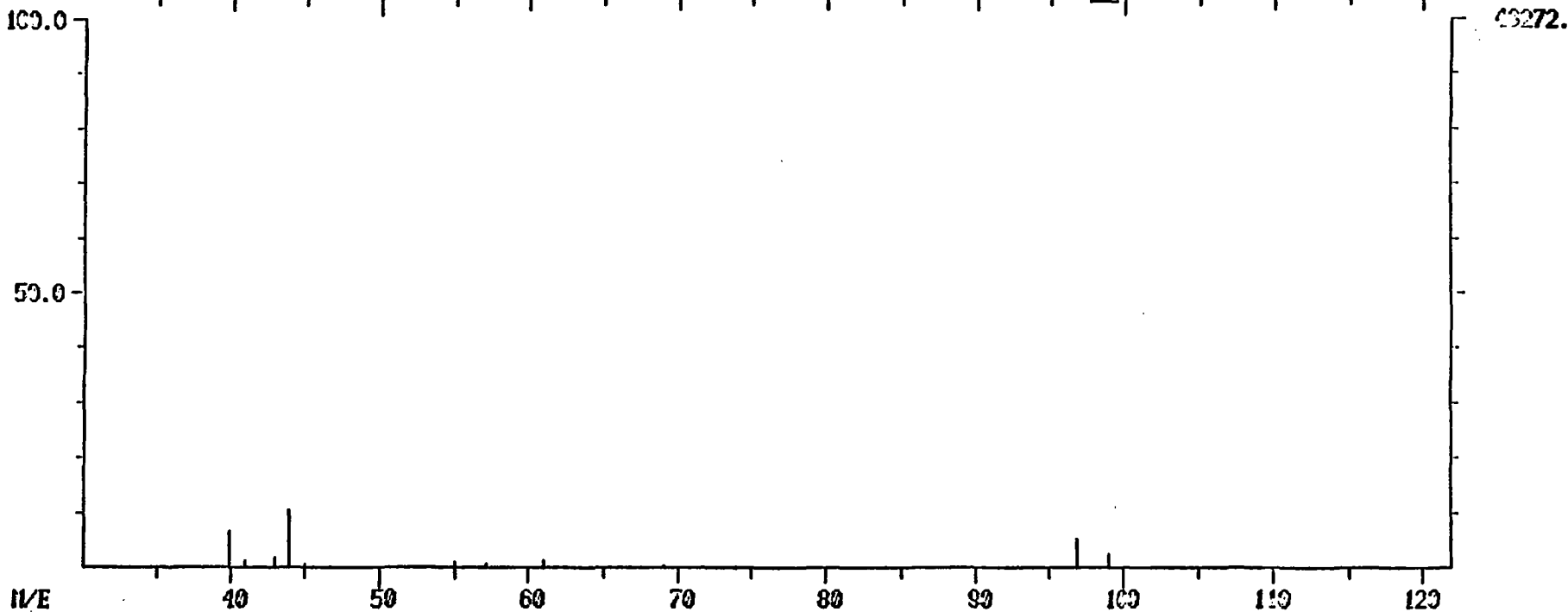
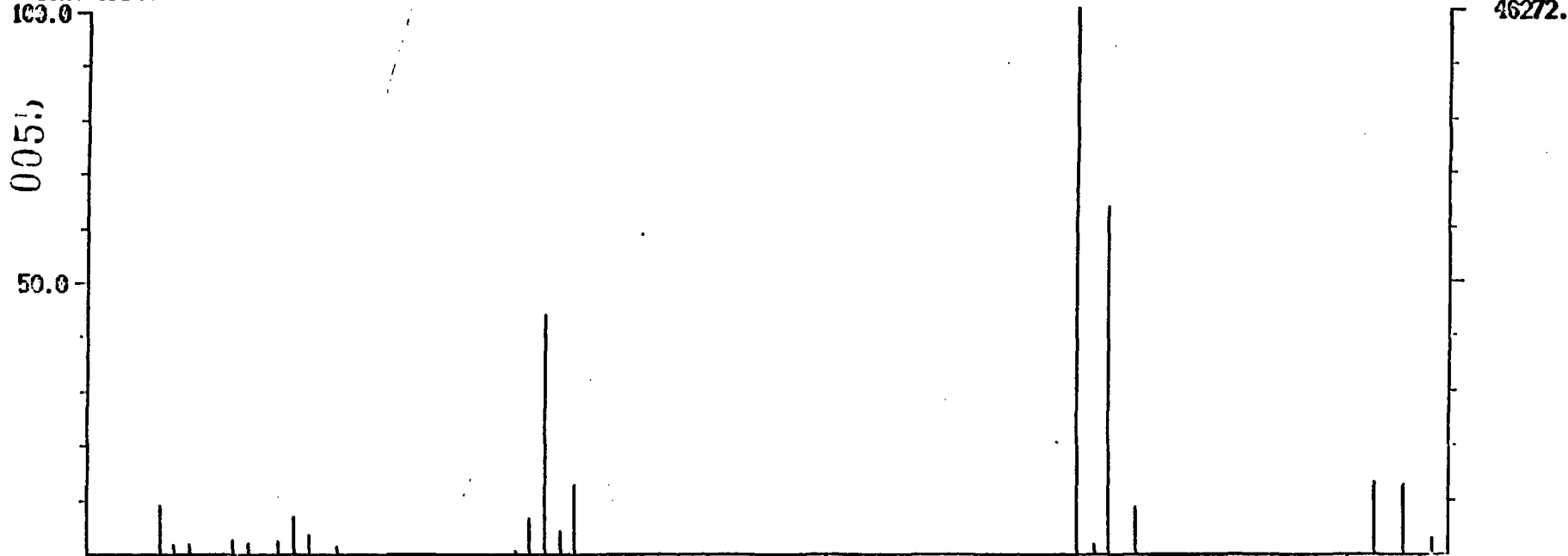


10/15/84 6:32:00 + 11:54
SAMPLE: F4.D.VEB.C9100.CO.V.MA:MA.MAS
DATA: 4ER12051V03 0262

CALI: F4CAL 01

RIC: 140287.7 14287.

SECOND SPECTRUM

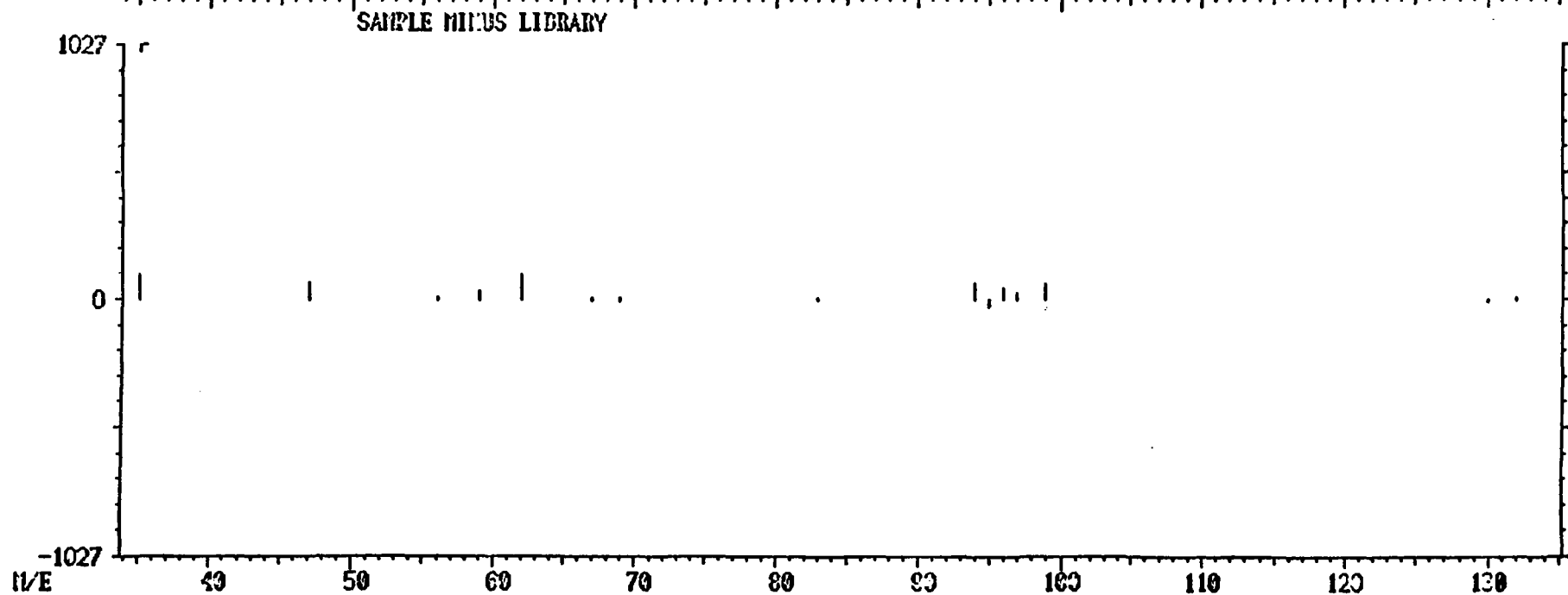
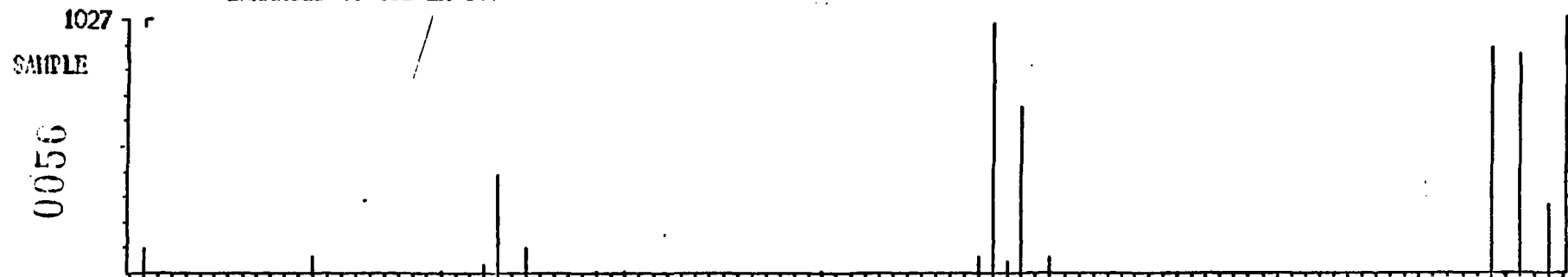


m/e 40 50 60 70 80 90 100 110 120

12/13/84 17:21:03 + 16:15
SAMPLE: F4.D.EPA.AB162.C9.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL # 1

RIC: 39231.

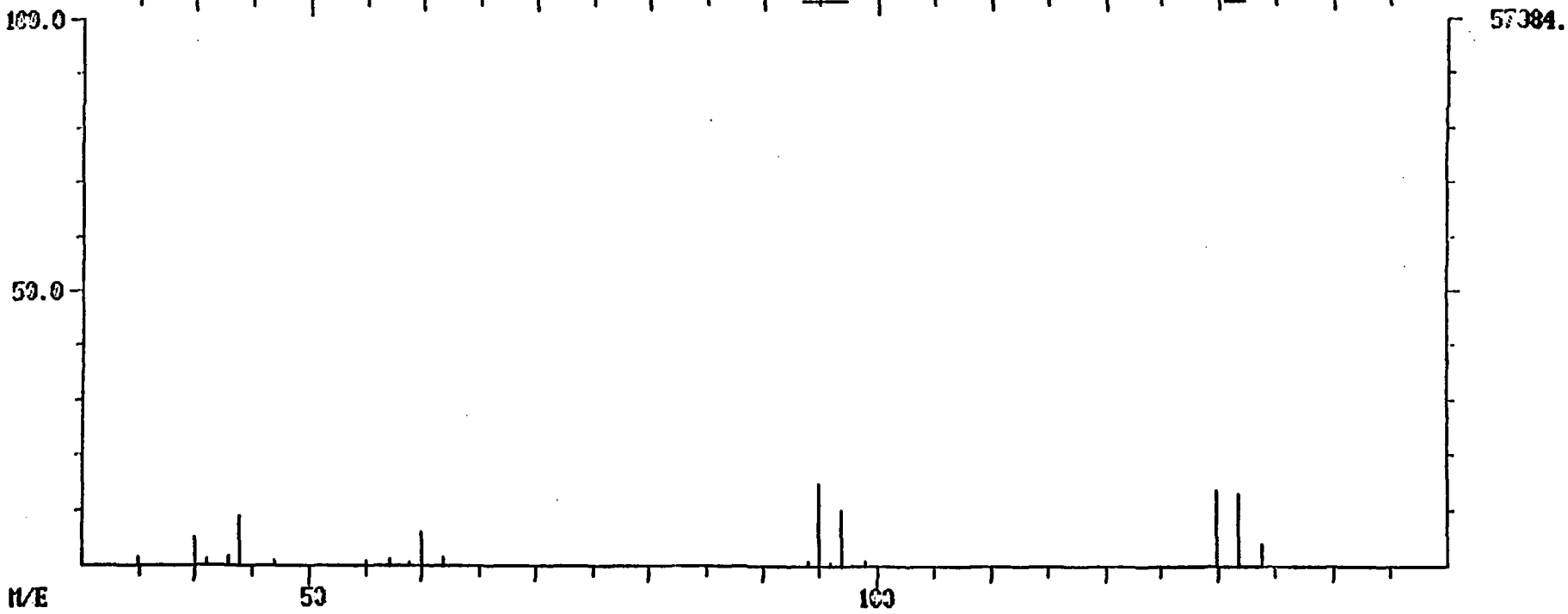
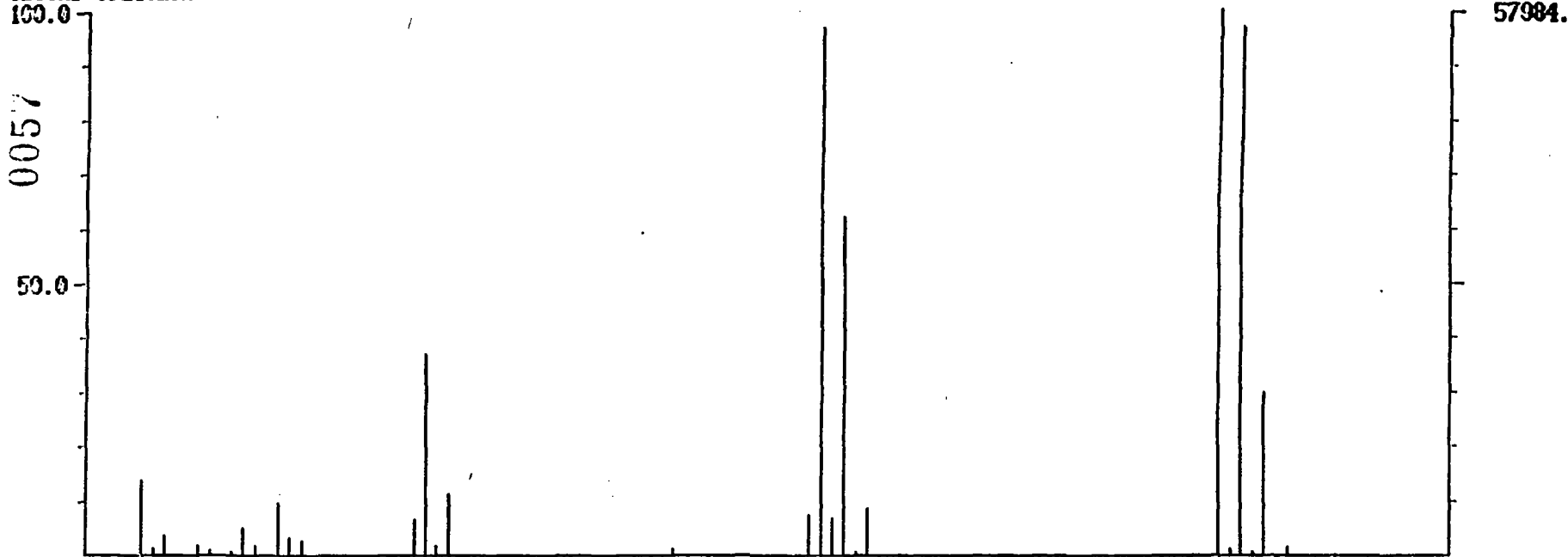


DATA MISS SELECTION
10/15/84 6:32:00 + 15:03
SAMPLE: F4.D. VER. C0100. C3.V. MA: HA. HAS
DATA: 4ER12051V03 #325

DATE: 10/15/84
CALI: F4CAL 01

TIME: 10:00:00
BIC: 299519.7 51007.

SECOND SPECTRUM



m/e

Radian DC# _____-_____-10

NHSL CALCULATION FORMCase Number: 3633Date: 12-13-87File Name: 4ER12051V03

Operator: _____

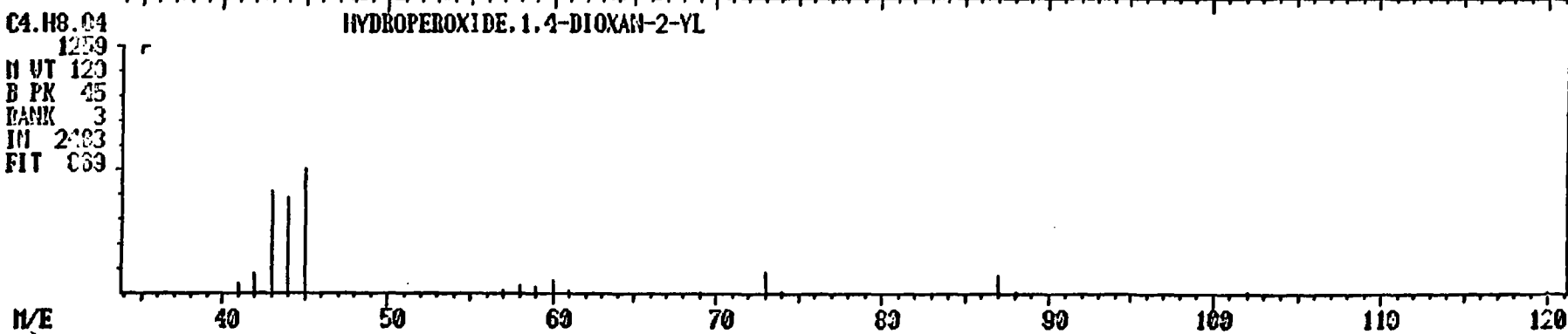
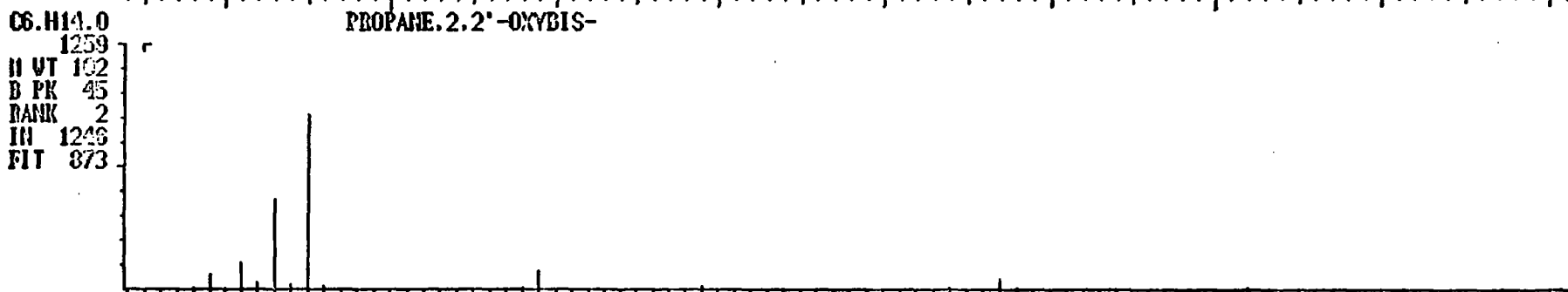
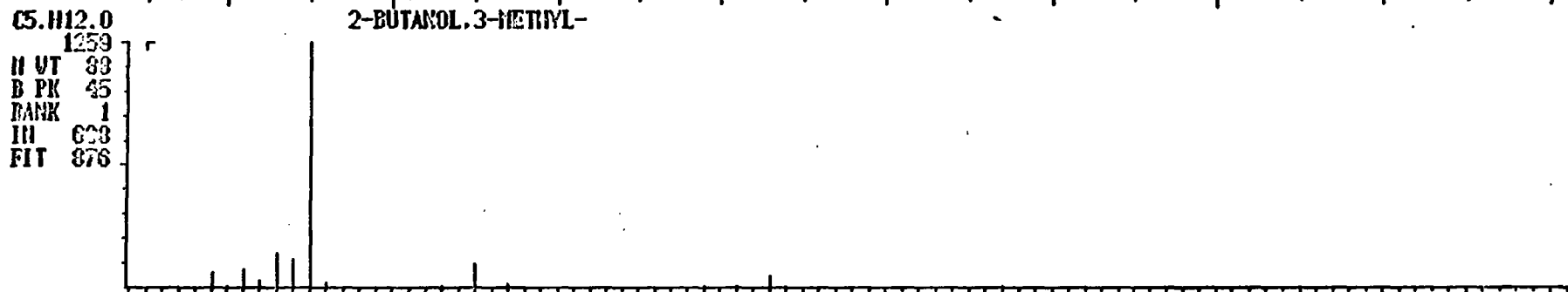
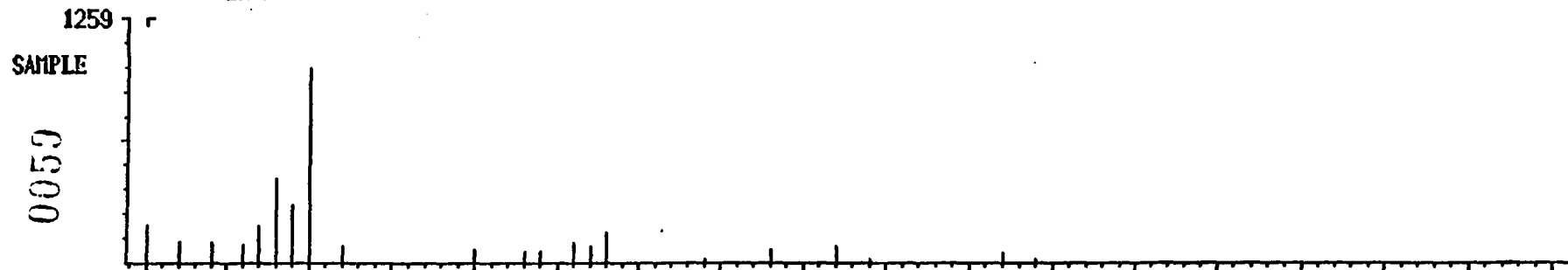
Fraction: VOA SV

- - -Unknown- - - -		- - -Int. Std.- - - -		IS Conc.	Est. Conc.	
Scan #	RIC HTH	Scan #	RIC HTH			
1.	336	417183	376	400347	16.7	17 ug/L
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

LIBRARY SEARCH
12/13/84 17:21:00 + 16:48
SAMPLE: F4.D.EPA.AB162.C9.V.1:1.NAS
ENHANCED (S 15B 21 0T)

DATE: FEBRUARY 1985
CALI: F4CAL 8 1

RIC: 64835.



RIC
12/21/84 12:59:00
SAMPLE: AB162
RANGE: G 1.2550

1: 1.12/10/84
LABEL: N 0. 4.0
QUAN: A 0. 1.0
BASE: U 20. 3

DATA: 2EU12051C03 #1
CALI: F2CAL #1

SCANS 300 TO 2550

210176.

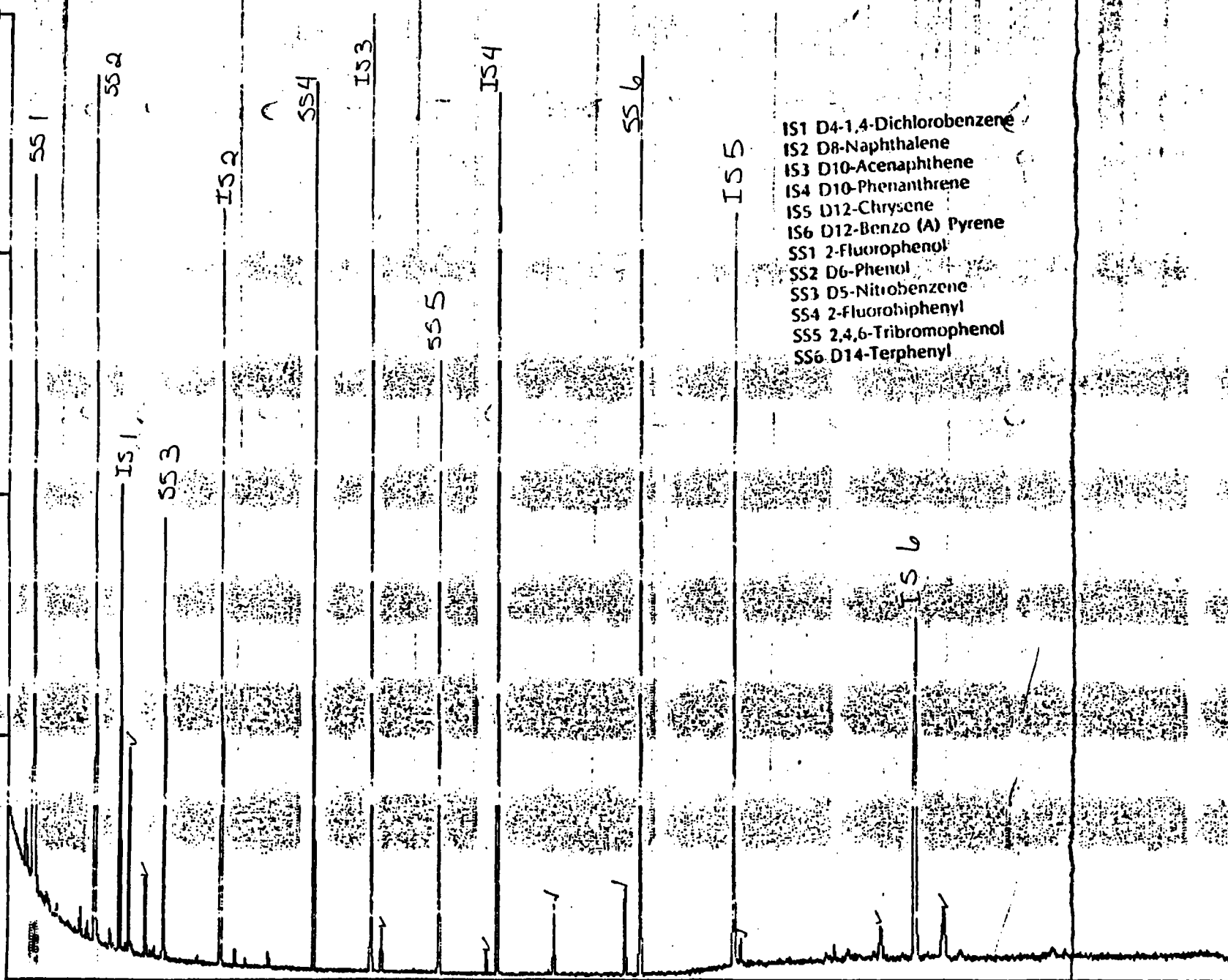
RADIAN DC * FC43-0

ANALYST:

0060

RIC

100.0



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500

1000
10:40

1500

2000
11:20

2500
41

SCAN

LIBRARY SEARCH
12/21/84 12:59:00 + 23:56
SAMPLE: AB162 1:1, 12/10/84
ENHANCED (S 15B 2N 0T)

DATA: 2EU12051003 #1436
CALI: F2CAL # 1

BASE M/E: 202
R/C: 16063.

220

1000
SAMPLE
1900

PYRENE

1000
M UT 150
B PK 202
RANK 1
IN 69
RFT 969

SAMPLE MINUS LIBRARY

1000
M/E

60

80

100

120

140

160

180

200

DATA: 2EU12051C03.T1

12/21/84 12:59:00

SAMPLE: AB162 1:1.12/10/84

JBMITTED BY: EPA ANA ST: LK

OUNT=AREA(HGHT) * DEF.AMNT / (DEF.AREA(HGHT) * RESP FACT)

SP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLORO BENZENE (IS)
- 2 D8-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 SENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 DI-N-BUTYLPHTHALATE
- 15 PYRENE
- 16 BIS(2-ETHYLHEXY)NAPHTHALATE

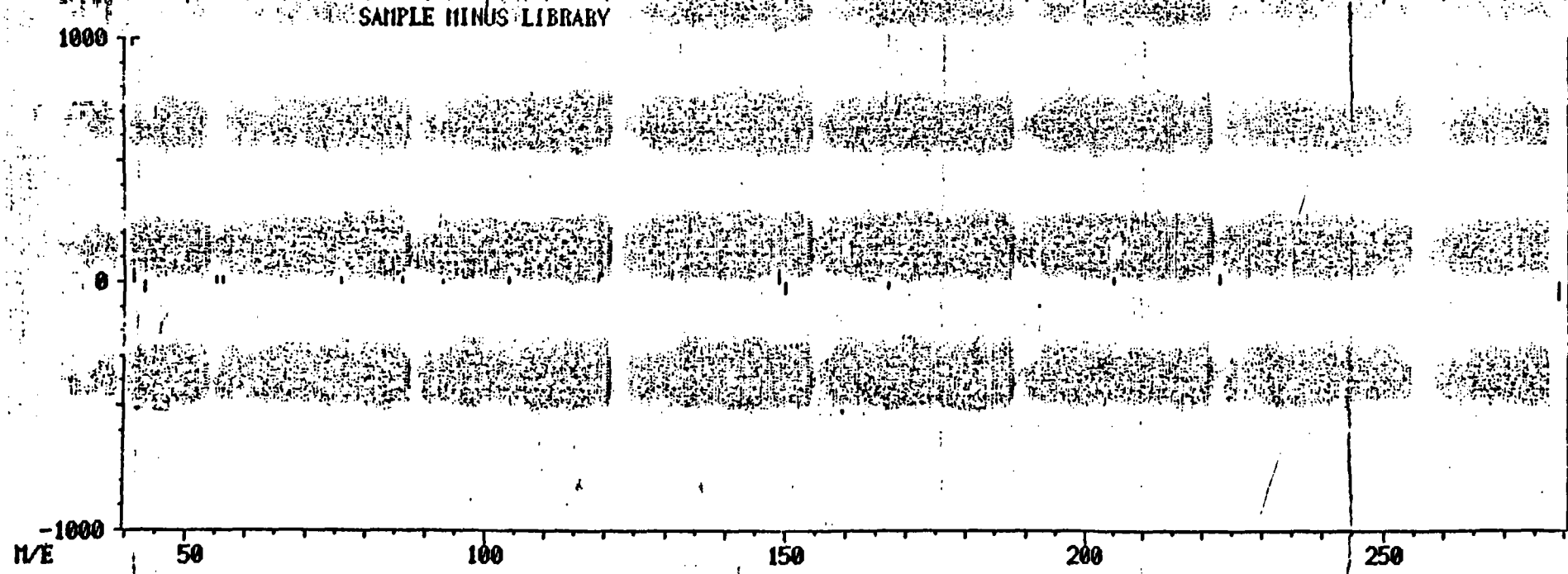
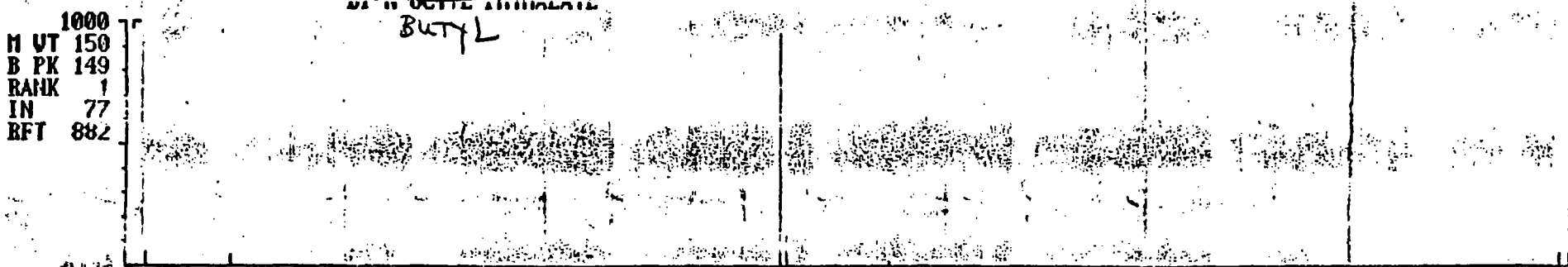
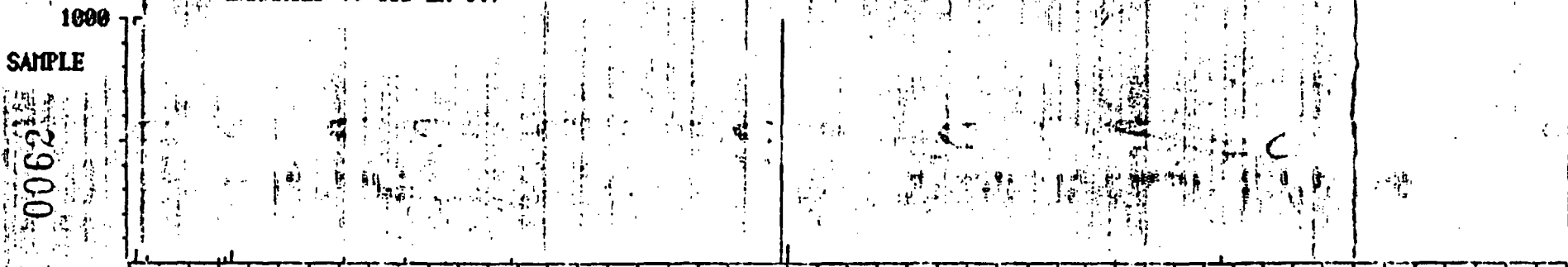
NO	M/E	SCAN	TIME	REF	RET	METH	AREA(HGHT)	AMOUNT	UNIT	ACT
1	152	506	8:26	1	1.000	A BB	50352.	40.000	UG/ML	3.57
2	136	690	11:30	2	1.000	A BB	188585.	40.000	UG/ML	3.57
3	164	967	16:07	3	1.000	A BB	114781.	40.000	UG/ML	3.57
4	188	1202	20:02	4	1.000	A7BV	180148.	40.000	UG/ML	3.57
5	240	1635	27:15	5	1.000	A BB	167887.	40.000	UG/ML	3.57
6	264	1971	32:51	6	1.000	A7BB	162914.	40.000	UG/ML	3.57
7	112	348	5:43	1	0.638	A7BV	109527.	206.541	X	18.44
8	99	460	7:40	1	0.909	A BB	176248.	213.492	X	19.06
9	82	586	9:45	2	0.849	A BB	66516.	62.219	X	5.55
10	172	861	14:21	3	0.890	A BB	154623.	107.557	X	9.60
11	330	1093	18:13	3	1.170	A BB	50993.	173.427	X	15.48
12	244	1463	24:23	5	0.805	A BB	197960.	100.297	X	8.95
13	94	461	7:41	1	0.638	A BB	66516.	62.219	UG/ML	0.41
14	149	1306	21:45	4	1.007	A BB	24159.	5.132	UG/ML	0.46
15	202	1436	23:55	5	0.876	A BB	22938.	5.384	UG/ML	0.48
16	149	1648	27:28	5	1.000	A BB	5847.	1.559	UG/ML	0.14

LIBRARY SEARCH
12/21/84 12:59:00 + 21:46
SAMPLE: AB162 1:1,12/10/84
ENHANCED (S 15B 2N 0T)

DATA: 2EU12051C03 #1306
CALI: F2CAL # 1

BASE N/E: 149
RIC: 11615.

550

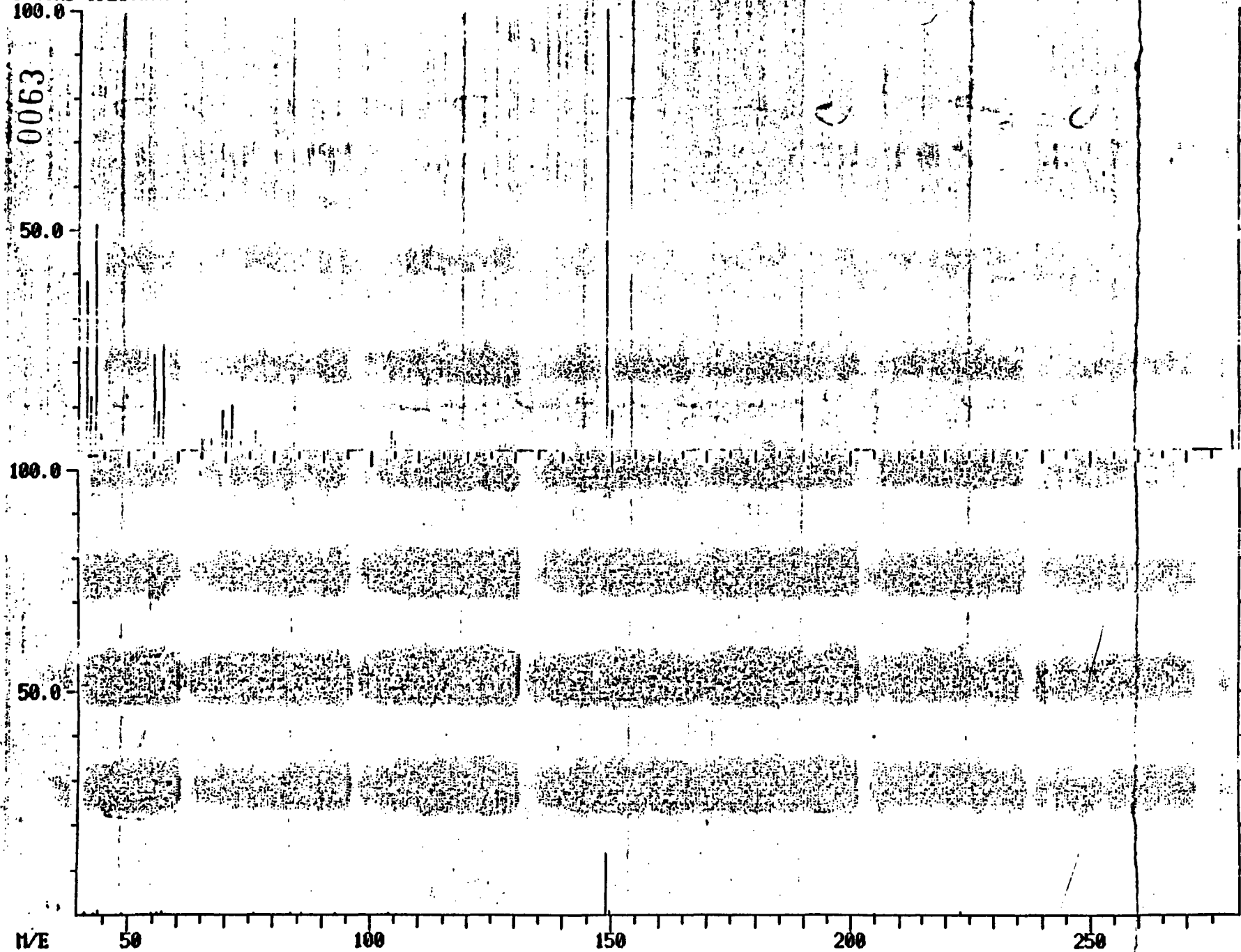


DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.NAS
DATA: 2EU12051C03 #1306

DATA: EPSTD #1745
CALI: F2CAL #1

BASE N/E: 149/ 149
RIC: 257279./ 16191.

SECOND SPECTRUM



78976.

78976.

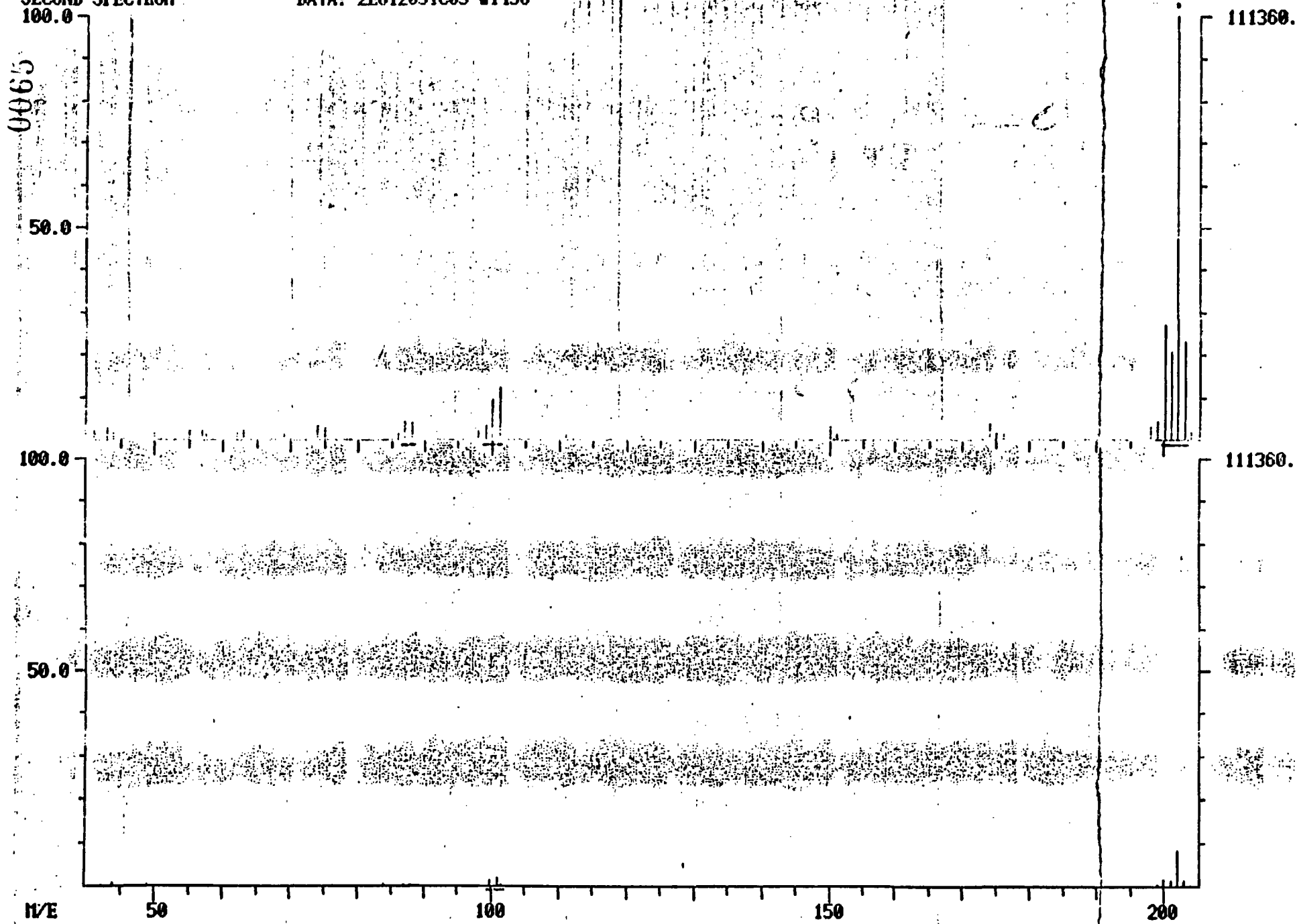
M/E 50 100 150 200 250

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 23:42
SAMPLE: F2.D.CAL.00080.00.C.NA.NAS
DATA: 2EU12051C03 #1436

DATA: EPSTD #1422
CALI: F2CAL #1

BASE M/E: 202/ 202
RIC: 285183./ 19359.

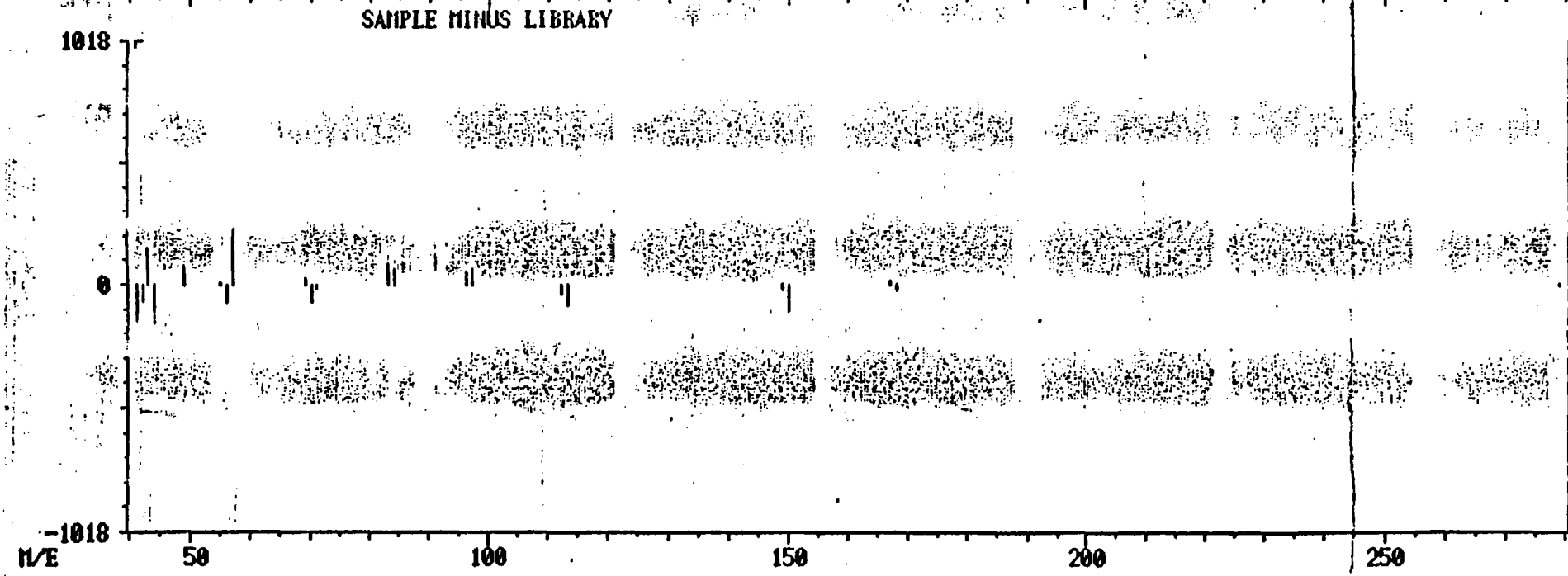
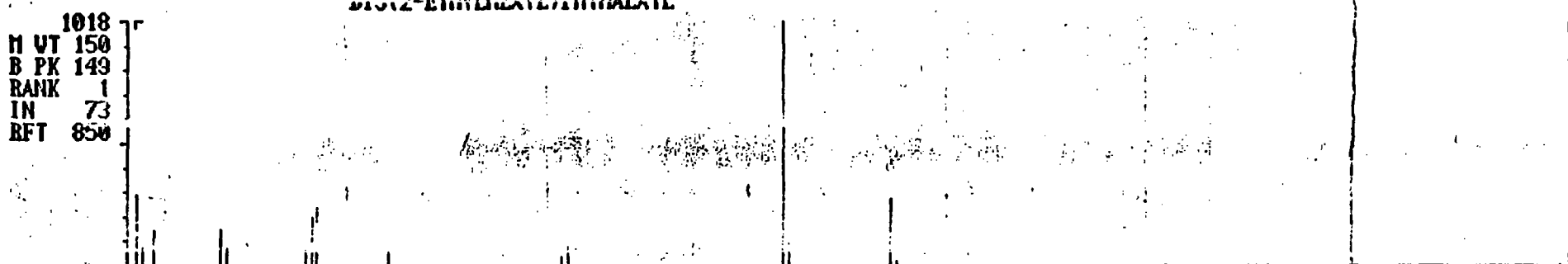
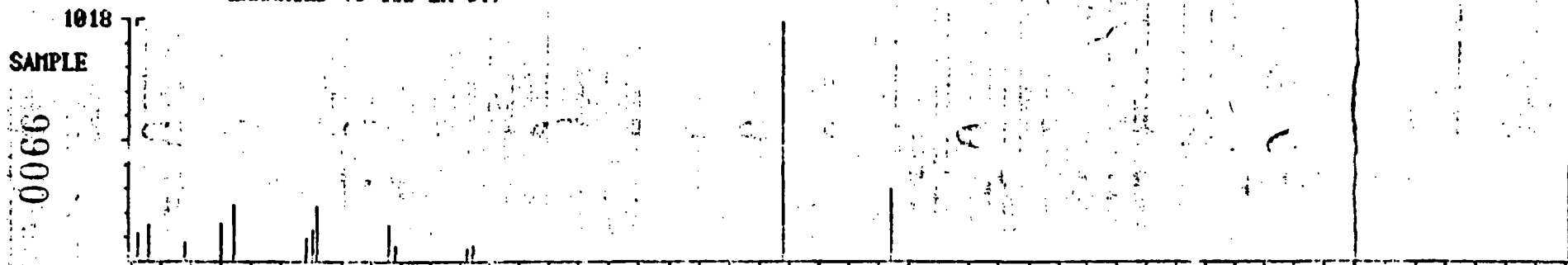
SECOND SPECTRUM



LIBRARY SEARCH
12/21/84 12:59:00 + 27:28
SAMPLE: AB162 1:1.12/10/84
ENHANCED (S 15B 2H 0T)

DATA: 2EU12051C03 #1648
CALI: F2CAL # 1

BASE M/E: 149
RIC: 4767.

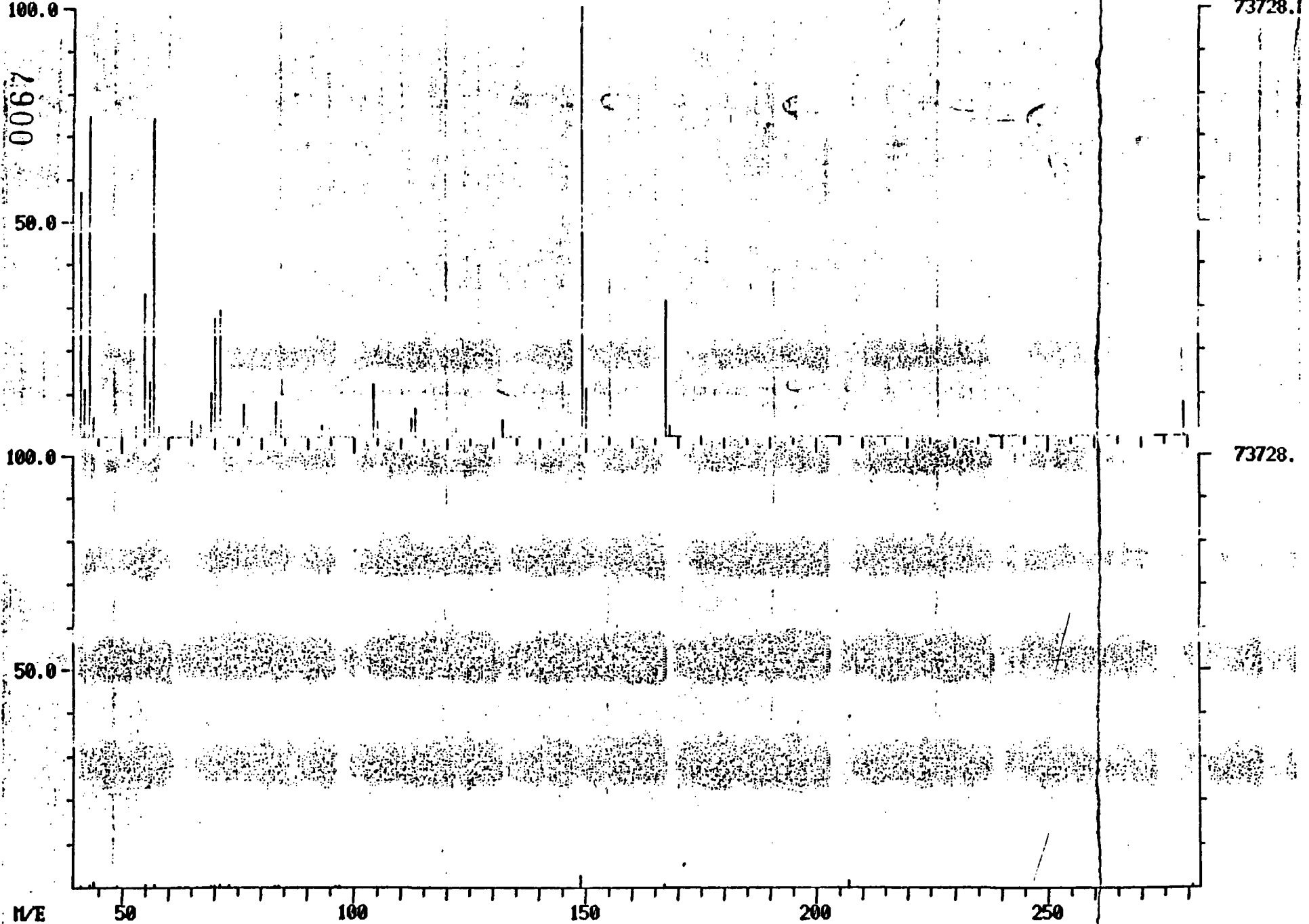


DUAL MASS SPECTRUM
11/09/84 4:38:00 + 27:09
SAMPLE: F2.D.CAL.00080.00.C.NA:NA.NAS
DATA: 2EU12051C03 #1648

DATA: EPSTD #1629
CALI: F2CAL #1

BASE M/E: 149/ 149
RIC: 416255./ 8831.

SECOND SPECTRUM
100.0



73728.

73728.

M/E

50

100

150

200

250

QUANTITATION REPORT FILE: NHSL

DATA: 2EU12051C03.TI

7/21/84 12:59:00

SAMPLE: AB162 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

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

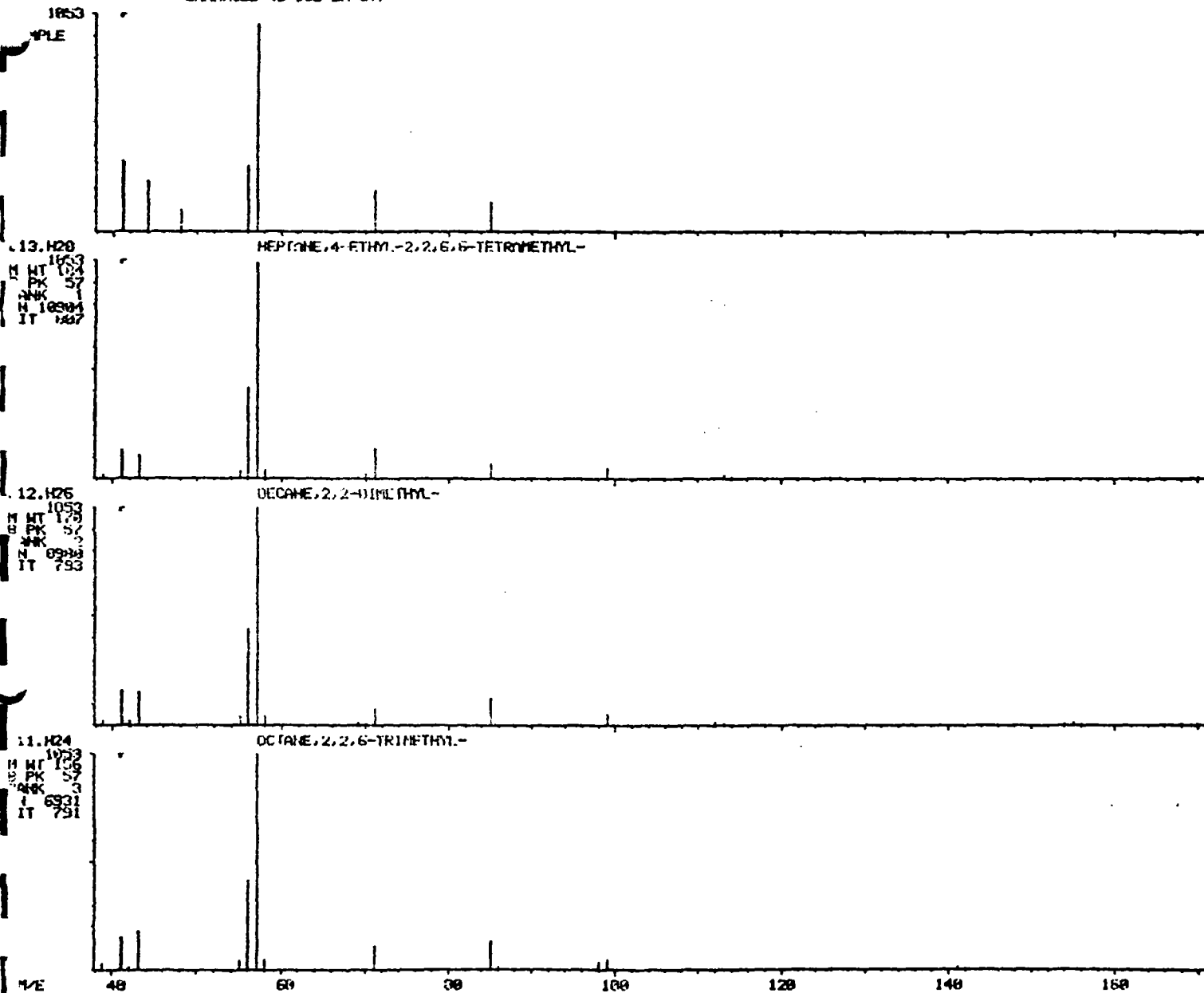
NO NAME

- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- ~~7 ETHENE, TETRACHLORO-~~
- 8 HEPTANE, 4-ETHYL-2,2,6,6-TETRAMETHYL-
- 9 CYCLOHEXANOL, 4-CHLORO-, TRANS-
- 10 1,2-CYCLOHEXANEDIOL
- ~~11 PHENOL, 4-NITRO-~~
- ~~12 PHENOL, PENTACHLORO-~~
- 13 HYDROCINNAMICACID, P-METHOXY-, BETA.-METHYL-, METHYLESTER
- 14 1-HEXENE, 5,5-DIMETHYL-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	506	3:26	1	1.000	A BB	50352.	40.000 UG/ML	5.28
2	136	690	11:30	2	1.000	A BB	188585.	40.000 UG/ML	5.28
3	164	967	16:07	3	1.000	A BB	114781.	40.000 UG/ML	5.28
4	188	1202	20:02	4	1.000	A?BU	130148.	40.000 UG/ML	5.28
5	240	1635	27:15	5	1.000	A BB	167887.	40.000 UG/ML	5.28
6	264	1971	32:51	6	1.000	A?BB	162914.	40.000 UG/ML	5.28
7	TOT	381	1:41	1	0.555	A BB	69952.	166.727 UG/L	21.99
8	TOT	447	7:27	1	0.883	A BB	7954.	18.958 UG/L	2.50
9	TOT	522	8:42	1	1.032	A UB	83041.	197.924 UG/L	26.10
10	TOT	554	9:14	1	1.095	A BB	39697.	94.616 UG/L	12.48
11	TOT	586	16:26	3	1.020	A BB	17565.	18.365 UG/L	2.42
12	TOT	1102	19:42	4	0.983	A BB	9770.	6.509 UG/L	0.86
13	TOT	1908	31:48	6	0.968	A BB	16147.	11.895 UG/L	1.57
14	TOT	2019	33:39	6	1.024	A UU	4347.	3.202 UG/L	0.42

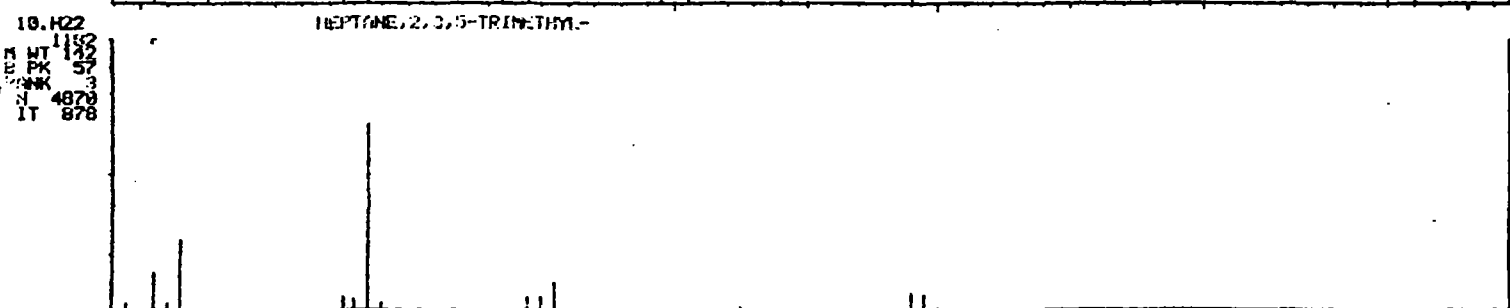
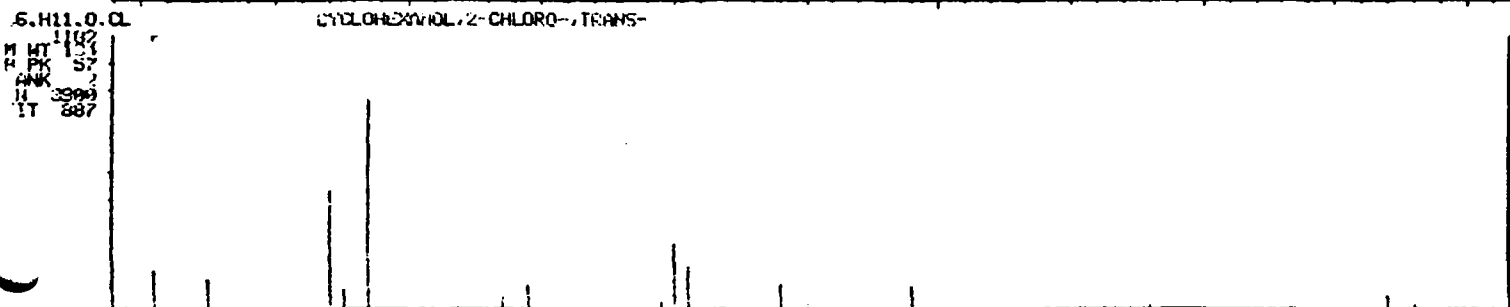
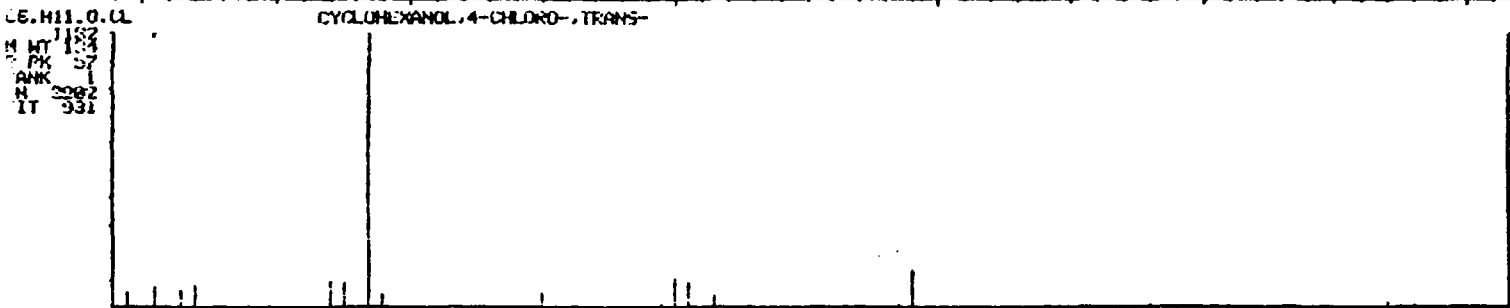
LIBRARY SEARCH
12/21/84 12:59:00 + 7:26
SAMPLE: AB162 1:1,12/10/84
ENHANCED (S 150 2N 81)

DATA: 2E112051083 # 446 PAGE N/E: 57
CAL: F2CAL # 1 RIC: 2731.



LIBRARY SEARCH
12/21/04 12:59:00 + 8:42
SAMPLE: AB162 1:1,12/10/04
ENHANCED (S 150 7H 0T)

DATA: 2EU12851C03 # 522
CALI: FZCAL # 1
BASE M/E: 57
RIC: 34175.



M/E 40 60 80 100 120 140

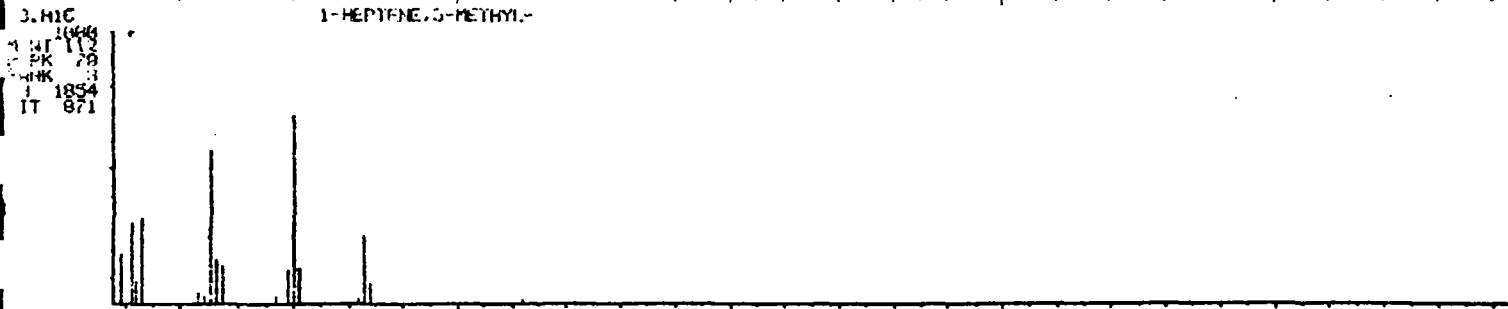
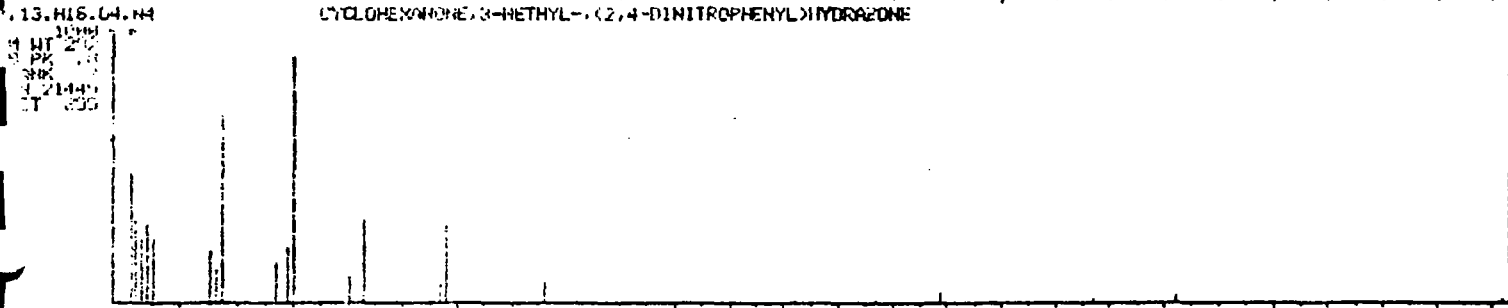
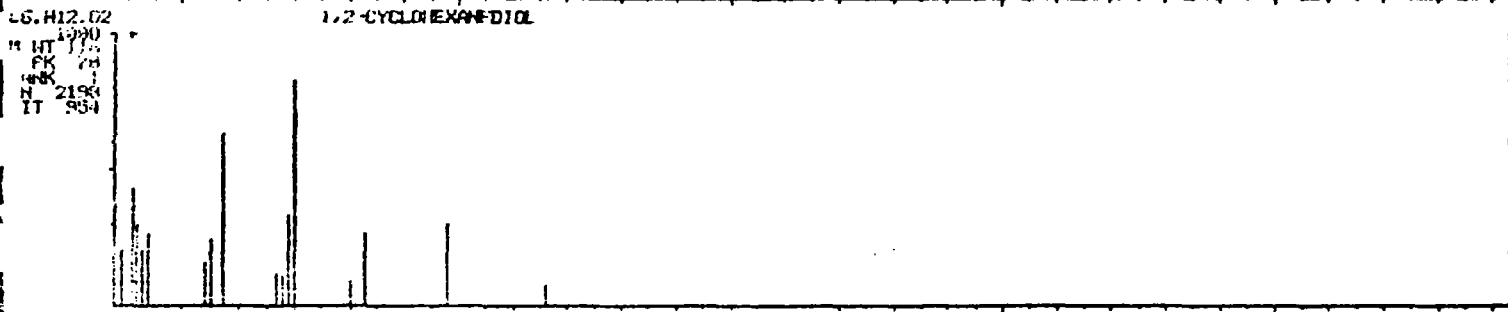
M WT 118.2
R PK 57
ANK 1
N 3002
IT 331

M WT 118.2
R PK 57
ANK 1
N 3002
IT 331

M WT 118.2
R PK 57
ANK 3
N 4879
IT 878

LIBRARY SEARCH
12/21/04 12:59:00 + 9:14
SAMPLE: AB162 1:1.12/10/04
ENHANCED (5 158 2N 0T)

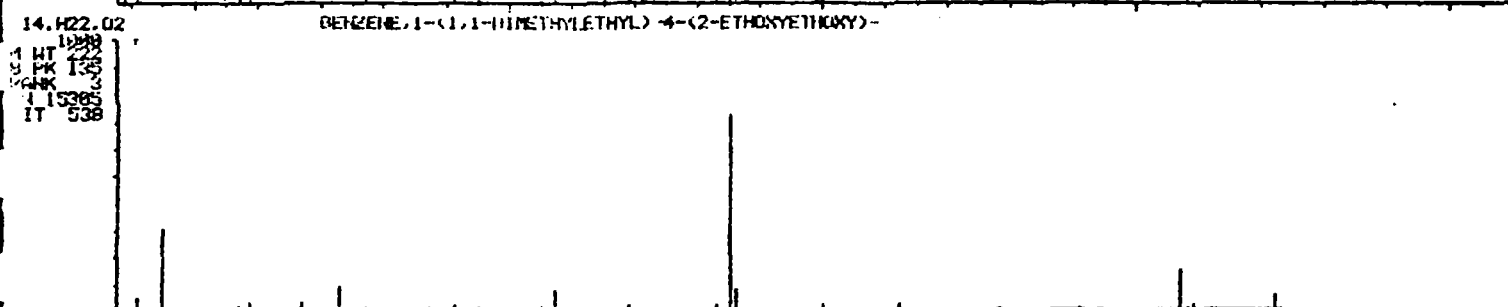
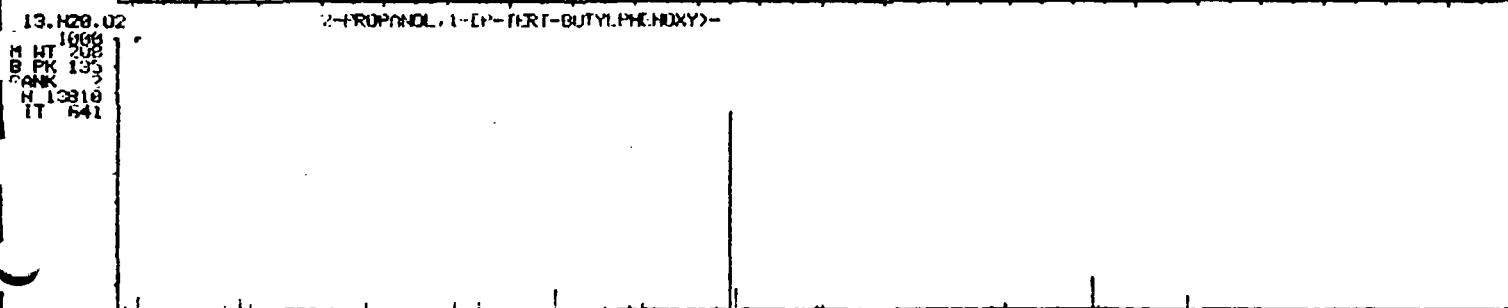
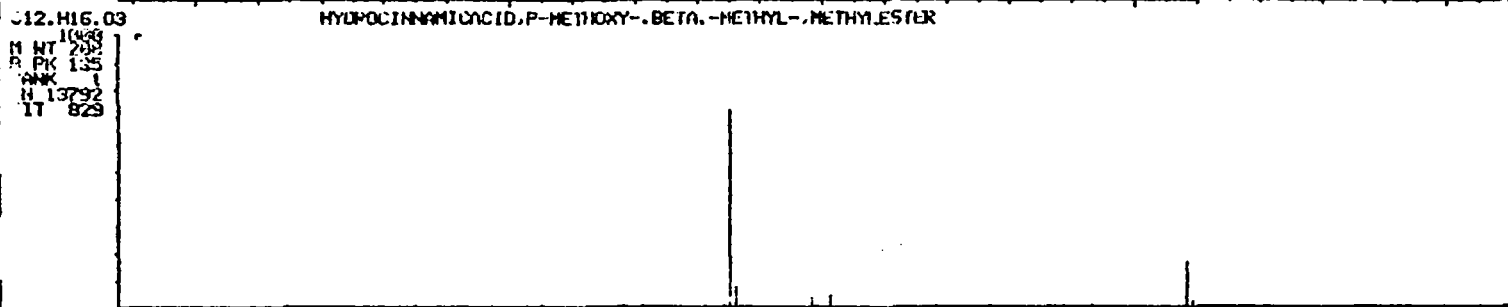
DATA: 2E112051083 # 554 BASE ME: 78
CAL: F2CAL # 1 RIC: 14569.



VE 50 100 150 200 250

LIBRARY SEARCH
12/21/84 12:59:00 + 31:48
SAMPLE: AB162 1:1,12/18/84
ENHANCED (S 158 2N 81)

DATA: 2FU12851C03 01:00
CALI: F2CAL # 1
BASE M/E: 197
RTC: 6055.

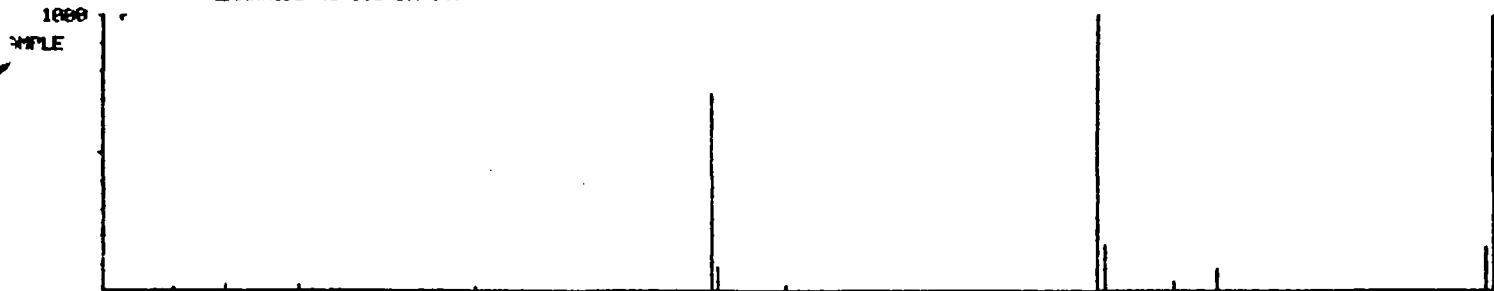


M/E 58 100 150 200 250

LIBRARY SEARCH
12/21/84 12:59:00 + 33:43
SAMPLE: AD162 1:1,12/18/84
ENHANCED (S 158 2N 0T)

DATA: 2E112851C83 #2823
CAL1: F2CAL # 1

BASE: N/E: 197
RIC: 9519.



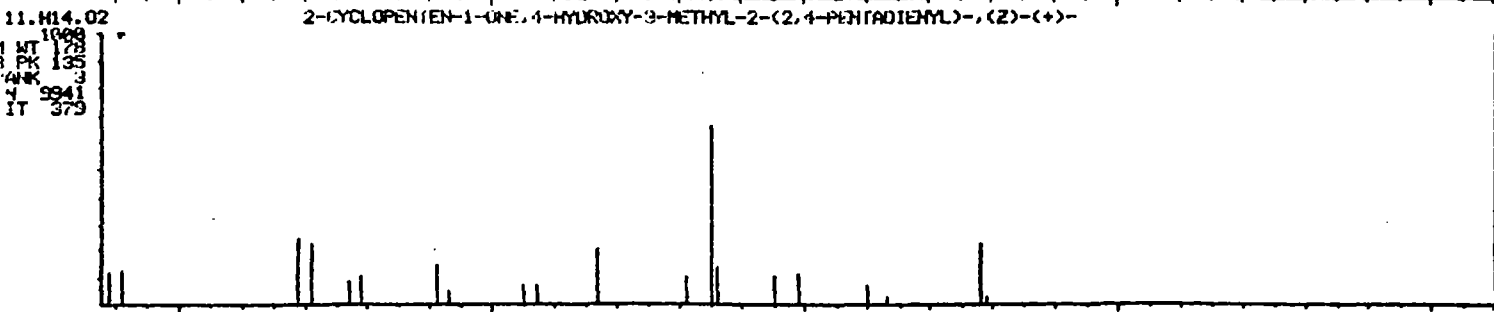
1-HEXENE, 5,5-DIMETHYL-

3. H16
H NT 1000
D PK 112
WPK 51
Y 1053
IT 445



OCTANE, 1-BROMO-

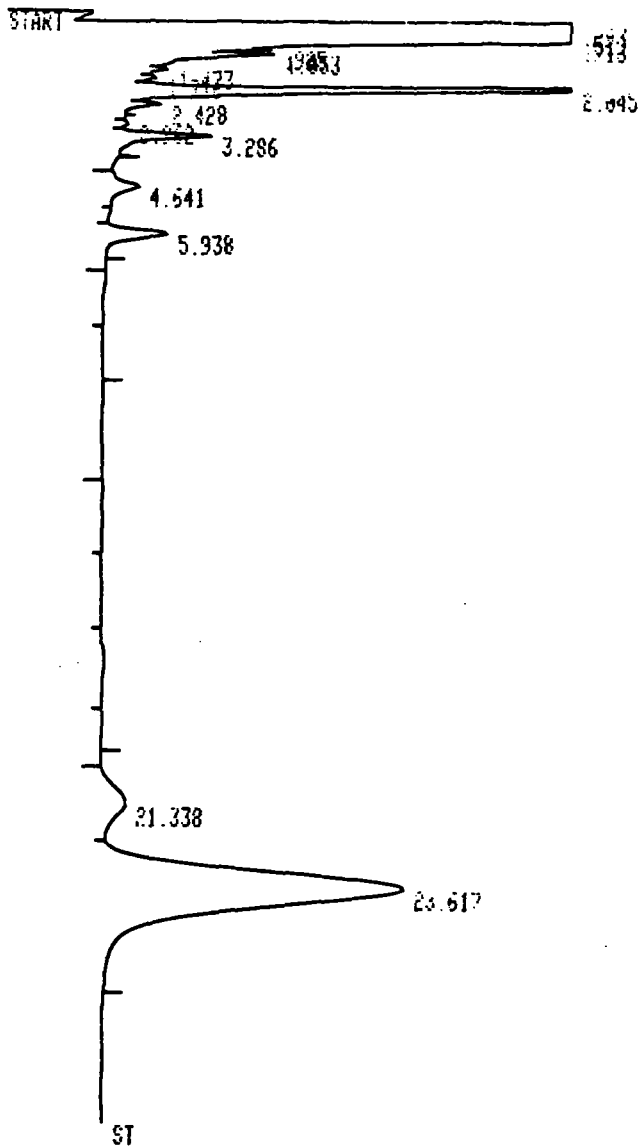
3. H17. DR
H NT 1000
D PK 135
WPK 1
Y 1195
IT 304



2-CYCLOPENTEN-1-ONE, 4-HYDROXY-3-METHYL-2-(2,4-PENTADIENYL)-, (Z)-(+)-

11. H14. 02
H NT 1000
D PK 135
WPK 3
Y 9941
IT 379

0074



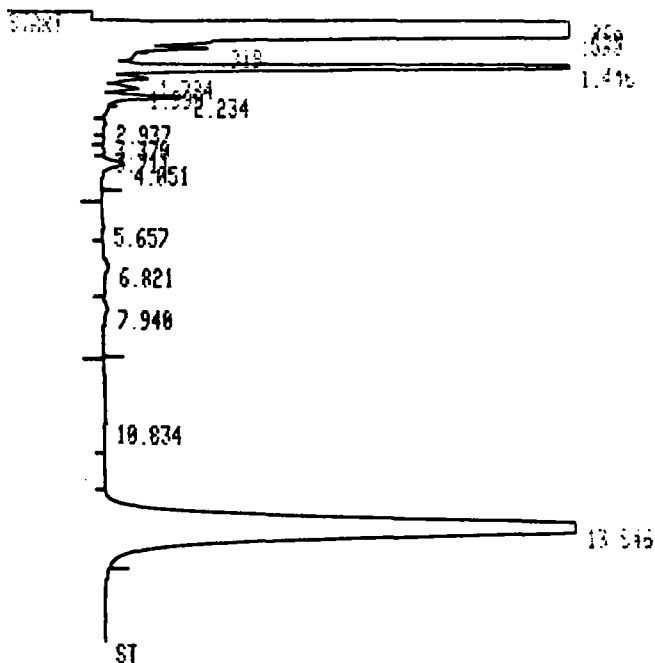
CASE NUMBER 3633
 SAMPLE ID AB162
 VOLUME INJECTED 2ul
 COLUMN MP

3633

RUN # 151 FEB/11/85 19:54:31
 WORKFILE ID: C 5-2-50211-16 2ul
 WORKFILE NAME: 8412051-03A 1L
 ID: 5-1-2-84 RM MP-2 Pur

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.293	2680225	SEW	0.096	62.622
0.519	324804	DTBB	0.071	7.590
0.713	1092322	DSHB	0.090	25.324
0.925	3003	DTBP	0.055	0.070
1.053	7006	DTFB	0.102	0.182
1.473	1299	DTBP	0.076	0.030
1.716	1009	DTTP	0.091	0.024
2.045	104566	TPV	0.125	2.443
2.428	3651	DTVP	0.135	0.095
3.286	10889	TVB	0.186	0.254
4.641	3309	BY	0.329	0.077
5.938	7355	PB	0.286	0.172
21.338	2935	BY	0.983	0.069
23.617	36432	VB	1.135	0.851

TOTAL HGHT= 4279600
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB162
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 387 FEB/17/85 20:11:03
 ID 1-1-1-85 1-1-50217-09 2ul
 8412051-03A Part.
 Run SP

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.263	2997440	SBH	0.124	33.957
0.418	1772378	DSHH	0.142	20.078
0.593	2205426	DSHH	0.110	24.984
0.919	53202	DTBB	0.077	0.603
1.446	1078001	SHR	0.134	12.211
1.724	25327	DTBP	0.103	0.287
1.999	23088	TPV	0.108	0.262
2.234	69886	TVB	0.125	0.792
2.937	1918	TBY	0.191	0.022
3.370	1425	TVP	0.150	0.016
3.711	2031	TPV	0.180	0.023
4.051	21621	TVB	0.217	0.245
5.657	1257	PV	0.437	0.014
6.821	5739	VV	0.483	0.065
7.940	4224	VB	0.480	0.046
10.834	775	BV	1.384	0.009
13.846	563515	FB	0.574	6.394

TOTAL HGHT= 8827300
 MUL FACTOR= 1.0000E+00

Sample Number
AB163

Organics Analysis Data Sheet
(Page 1)

0076

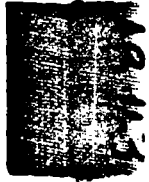
Laboratory Name: Radian
Lab Sample ID No: 4E WIZOSI V04
Sample Matrix: Water
Data Release Authorized By: Zapetkov

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: —
Date Analyzed: 12-13-84
Conc/Dil Factor: 1:1 pH —
Percent Moisture: 100%
Percent Moisture (Decanted): —

*see file
7/10/87*



CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U J
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U J
75-09-2	Methylene Chloride	2000U J 5U
67-64-1	Acetone	Y30 U J 10U
75-15-0	Carbon Disulfide	5U J
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U J
67-66-3	Chloroform	25U J 5U
107-06-2	1, 2-Dichloroethane	5U J
78-93-3	2-Butanone	50U J 10U
71-55-6	1, 1, 1-Trichloroethane	25U J 5U
56-23-5	Carbon Tetrachloride	5U J
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U J

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U J
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xlenes	5U J

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number
AB 163Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-21-84Conc/Dil Factor: 1000:1*see next page 12/10/84*

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1,3-Dichlorobenzene	10u
106-46-7	1,4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1,2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2,4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2,4-Dichlorophenol	10u
120-82-1	1,2,4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2,4,6-Trichlorophenol	10u
95-95-4	2,4,5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2,4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2,4-Dinitrotoluene	10u
606-20-2	2,6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4,6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u 105, B 2
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3,3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u 100 UT
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(k)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1,2,3-cd)Pyrene	10u
53-70-3	Dibenz(a,h)Anthracene	10u
191-24-2	Benzo(g,h,i)Perylene	10u

(1)-Cannot be separated from diphenylamine

0078
 Sample Number
AB163

Organics Analysis Data Sheet
 (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000 ml : 5 ul

*all for
5/10/85*

CAS Number ug/lbr ug/Kg
 (Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 ul V_i 2 ul

0079

SAMPLE NUMBER:
AB163

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

AS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L) OR UG/KG
1 24538-17-0	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	523	} TP 282 77 25 9
2 981-17-9	1,2-CYCLOHEXANEDIOL	ABN	555	
3 1072-16-8	OCTANE, 2,7-DIMETHYL-	ABN	1041	
4 4032-36-4	HEPTANE, 3,3-DIMETHYL-	ABN	1649	

NO Volatile compounds detected

all fine 5/10/85

12/13/84 17:50:09

CALI: F4CAL 01

SAMPLE: F4.D.EPA.AB103.C9.V.1:1.NAE

RANGE: G 1.659 LABEL: N 0.4.0 QUANT: A 0.1.0 BASE: U 20. 3

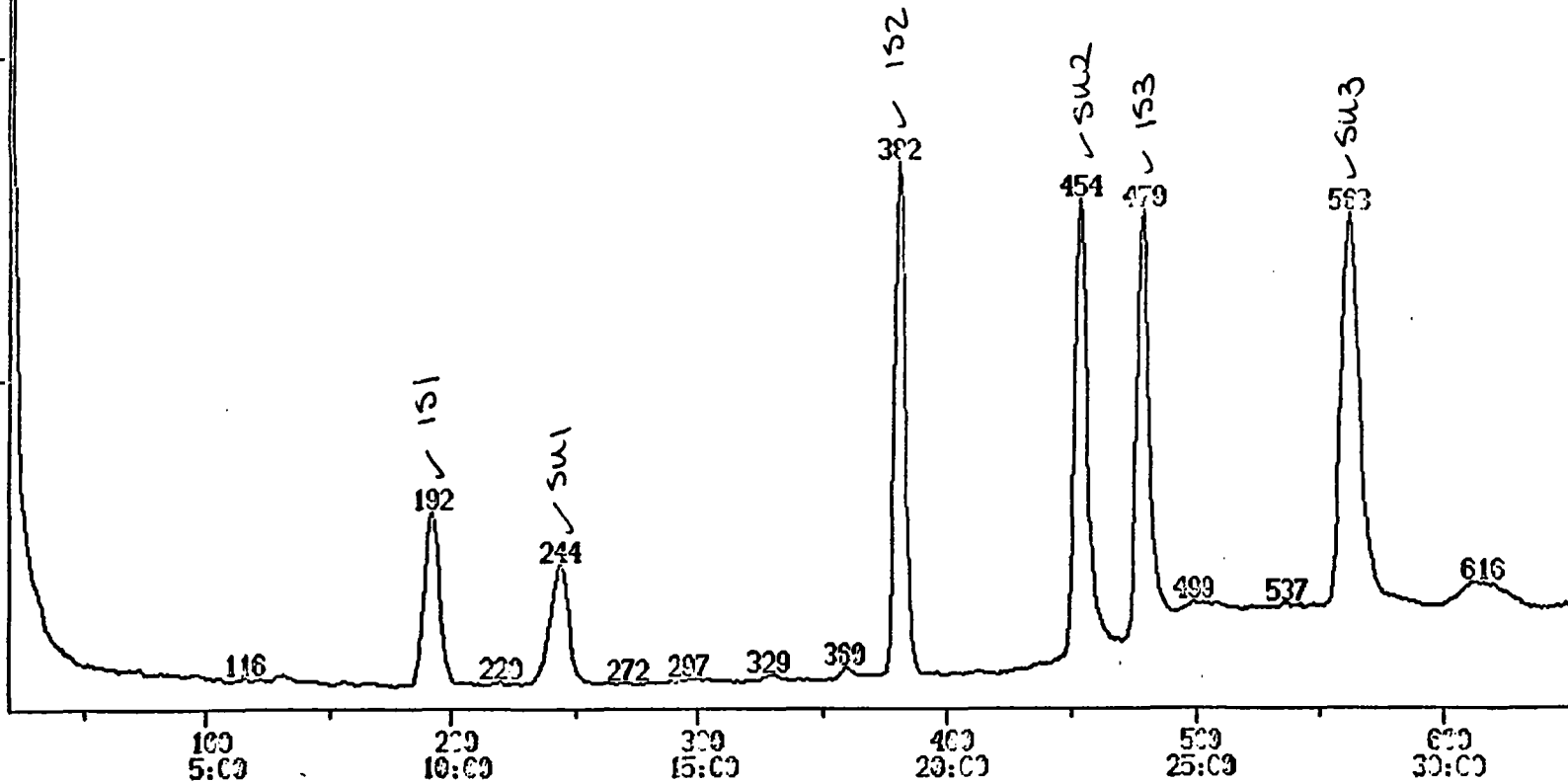
470720.

100.0

0050

RIC

IS1 Bromochloromethane
IS2 1,2-Difluorobenzene
IS3 D5-Chlorobenzene
SU1 D4-1,2-Dichloroethane
SU2 D8-Toluene
SU3 P-Bromofluorobenzene



SCAN
TIME

DATA: 4EU12051V04.TI

12/13/84 17:59:00

SAMPLE: F4.D,EPA,AB163,00,V,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	123	192	9:35	1	1.030	A 09	64386.	50.000 UG/L	11.26
2	67	244	12:12	1	1.271	A 09	82373.	102.823 %	23.15
3	114	392	19:05	3	1.000	A 03	411426.	50.000 UG/L	11.26
4	117	479	23:57	4	1.000	A 09	296209.	50.000 UG/L	11.26
5	98	454	22:42	4	0.948	A709	376669.	93.104 %	20.96
6	95	563	28:09	4	1.175	A709	289719.	98.271 %	22.12

RIC
12/21/84 14:05:00
SAMPLE: AB163

1:1.12/10/84
RANGE: G 1.2550 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

DATA: 2EU12051C04 #1
CALI: F2CAL #1

SCANS 300 TO 2550

192768

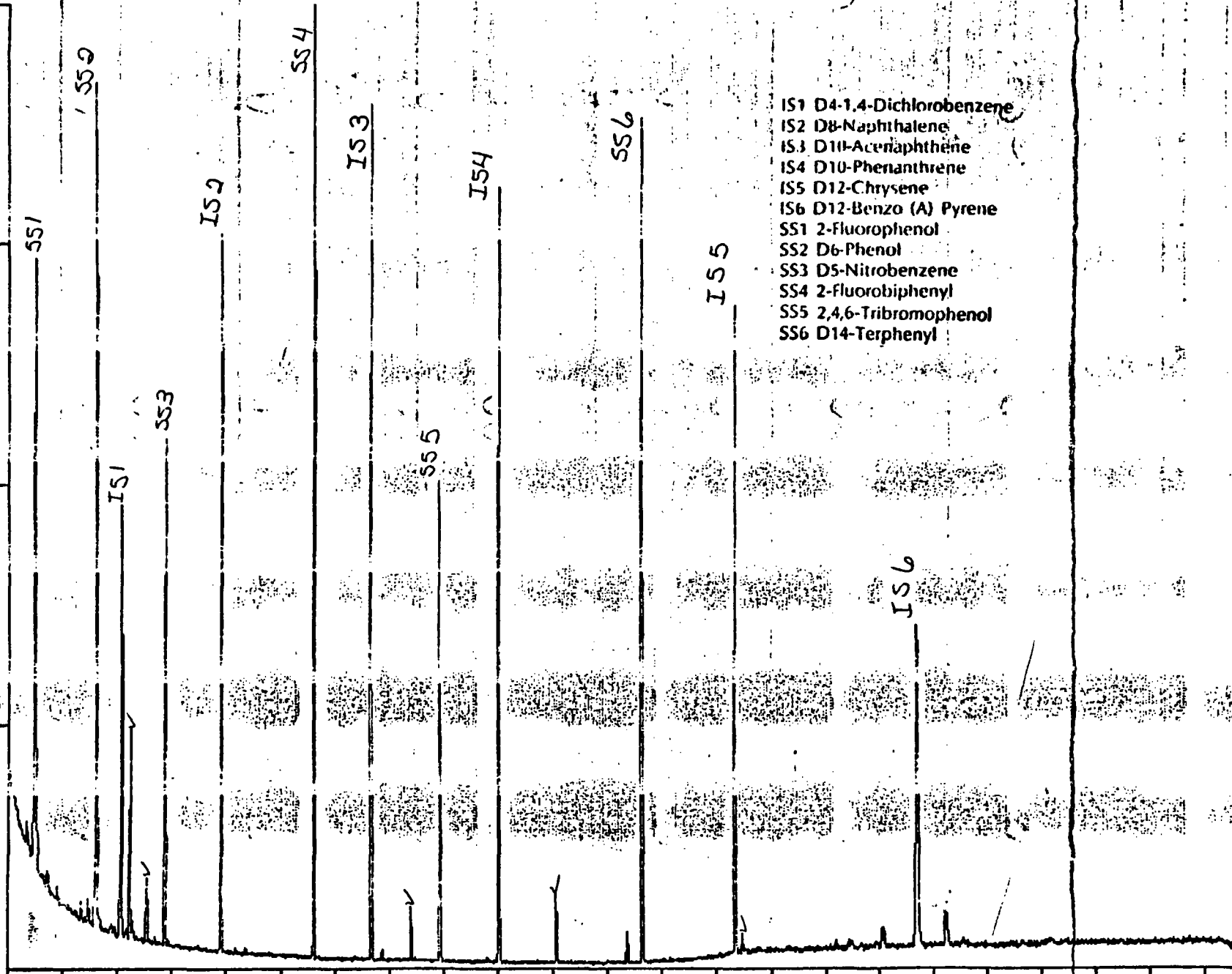
RADIAN DC * FC43 - 0

ANALYST: LK

0082

RIC

100.0



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500

1000
:40

1500

2000
:20

2500
41

SCAN
TIME

DATA: 2EU12051C04.T1

0083

12/21/84 14:05:00

SAMPLE: AB163 1: 12/10/84

SUBMITTED BY: EPA ANALYST: LK

UNIT=AREA(HGHT) * REF.AMNT / (REF.AREA(HGHT) * RESP FACT)

SP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 DI-N-BUTYLPHTHALATE

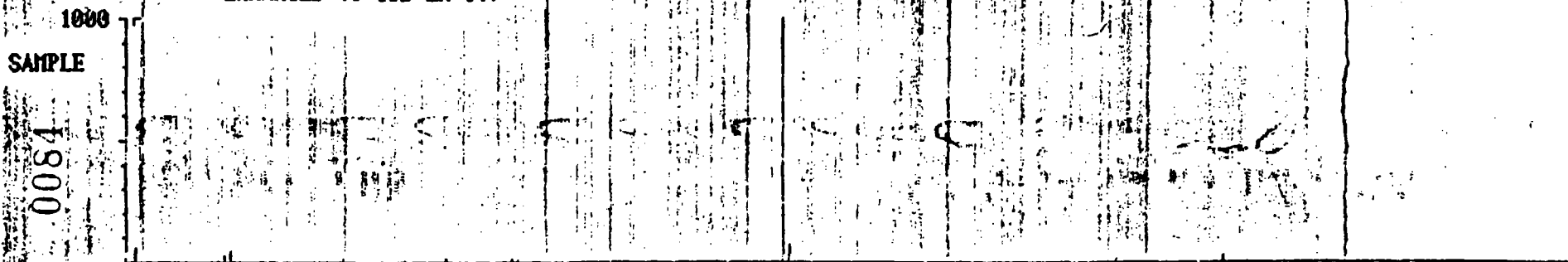
ID	M/E	SCAN	TIME	REF	RAT	METH	AREA(HGHT)	AMOUNT	X DT
1	152	507	8:27	1	1.000	A BB	43833.	40.000 UG/ML	3.35
2	136	691	11:31	2	1.000	A BB	171314.	40.000 UG/ML	3.35
3	164	968	16:00	3	1.000	A BB	98467.	40.000 UG/ML	3.35
4	188	1203	20:03	4	1.000	A BB	145494.	40.000 UG/ML	3.35
5	240	1636	27:15	5	1.000	A BB	132185.	40.000 UG/ML	3.35
6	264	1972	32:52	6	1.000	A BB	121960.	40.000 UG/ML	3.35
7	112	349	5:49	1	0.688	A BB	114601.	248.253 %	20.81
8	99	461	7:41	1	0.929	A BB	166895.	232.229 %	19.47
9	82	587	9:47	2	0.849	A BB	70441.	72.533 %	6.00
10	172	862	14:22	3	0.899	A BB	146015.	118.397 %	9.93
11	330	1094	18:14	3	1.139	A BB	37613.	149.116 %	12.50
12	244	1464	24:24	5	0.895	A BB	176496.	113.574 %	9.52
13	94	462	7:47	1	0.929	A BB	17257.	13.197 UG/ML	1.11
14	149	1307	21:47	4	1.000	A BB	21208.	5.570 UG/ML	0.47

LIBRARY SEARCH
12/21/84 14:05:00 + 21:47
SAMPLE: AB163 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

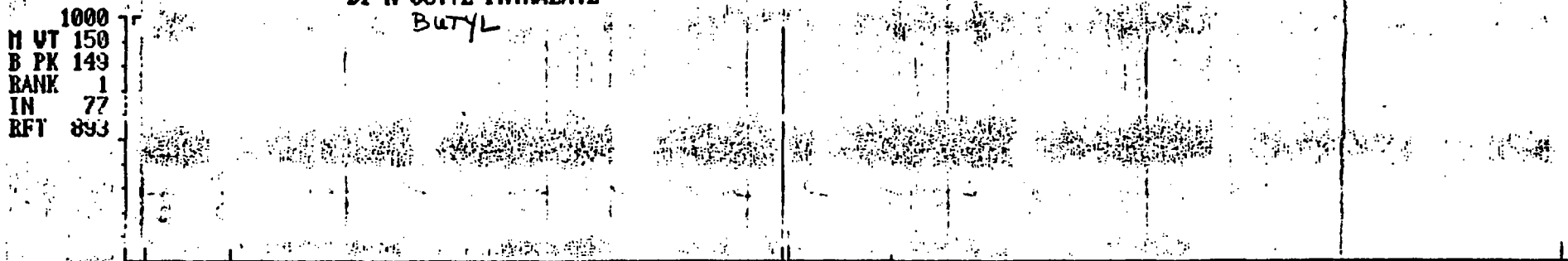
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CALI: F2CAL # 1

BASE M/E: 149
RIC: 10831.

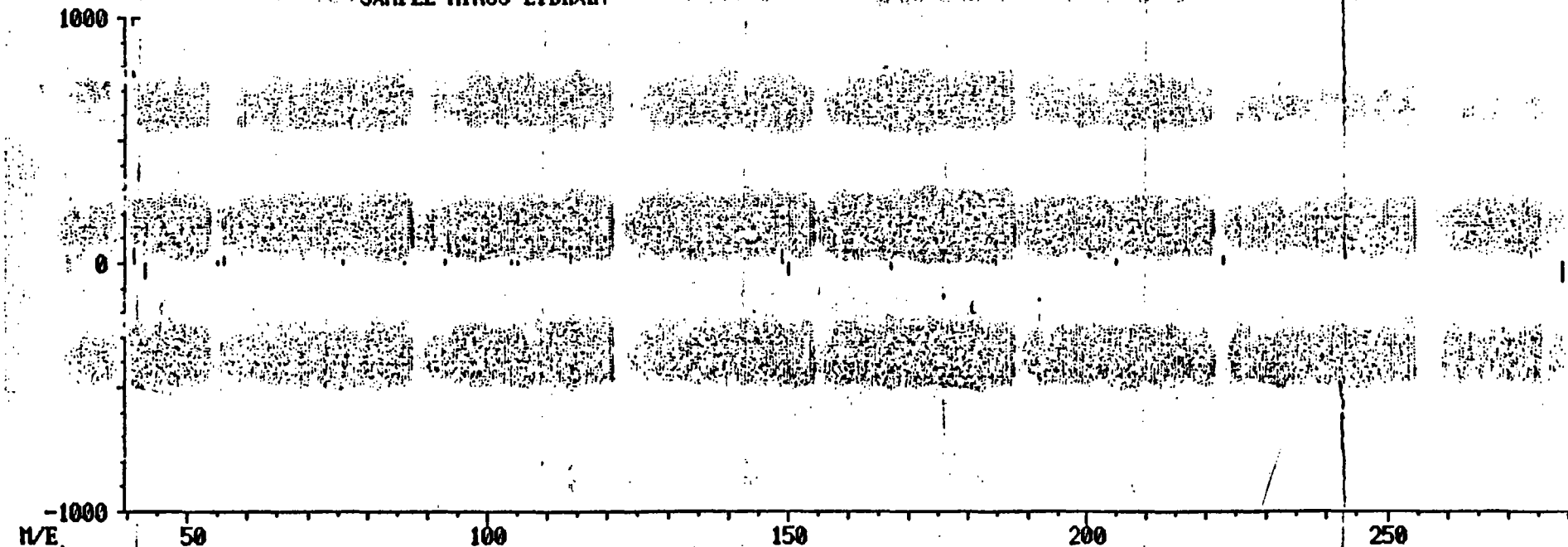
V 30



DI-N-OCTYL PHTHALATE
BUTYL



SAMPLE MINUS LIBRARY



DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA:NA.NAS
DATA: 2EU12051C04 #1307

DATA: EPSTD #1745
CALI: F2CAL #1

BASE M/E: 149/ 149
RIC: 257279./ 15167.

SECOND SPECTRUM

100.0

50.0

100.0

50.0

M/E

50

100

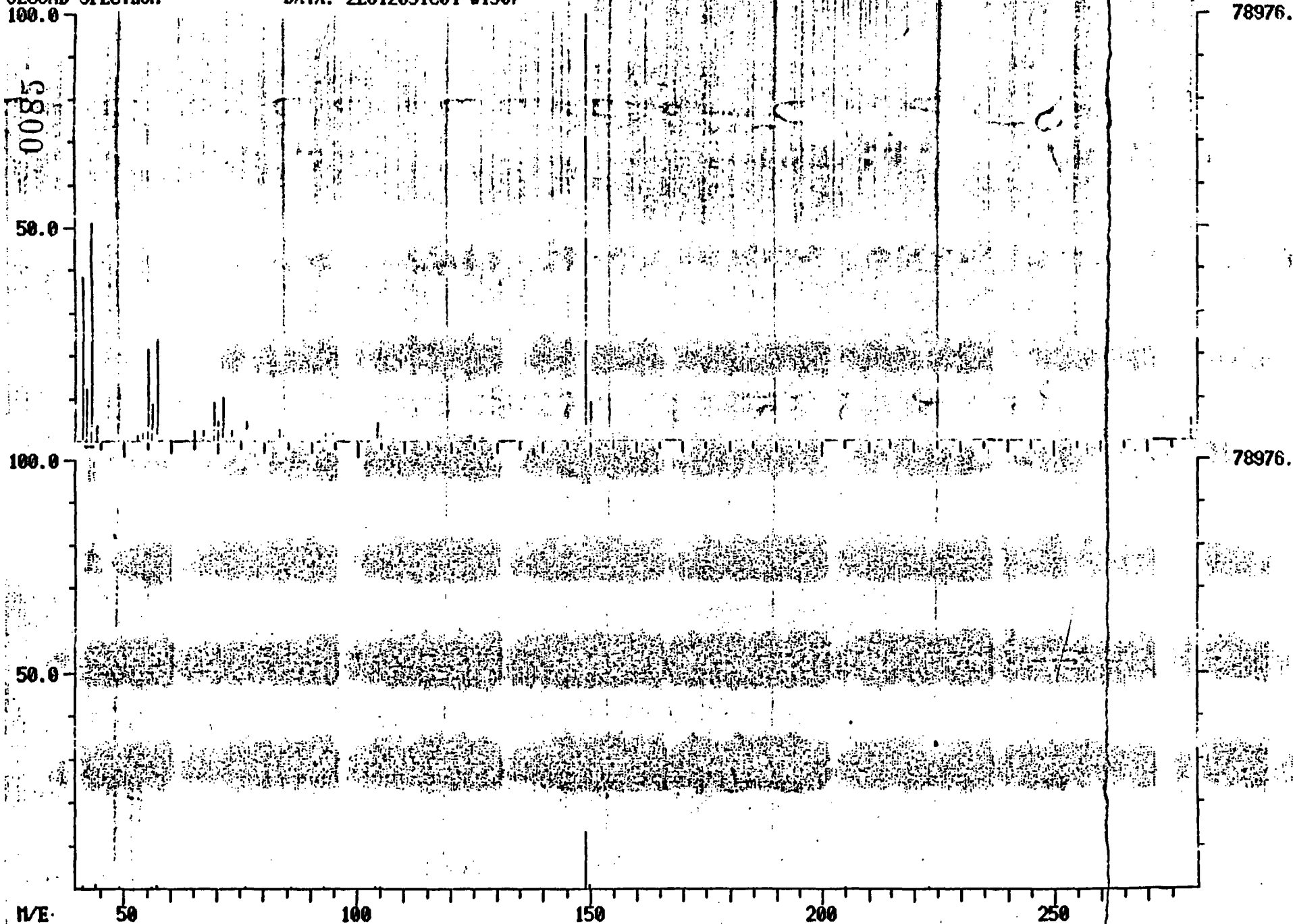
150

200

250

78976.

78976.



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12051C04.TI

12/21/84 14:05:00

SAMPLE: AB163 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

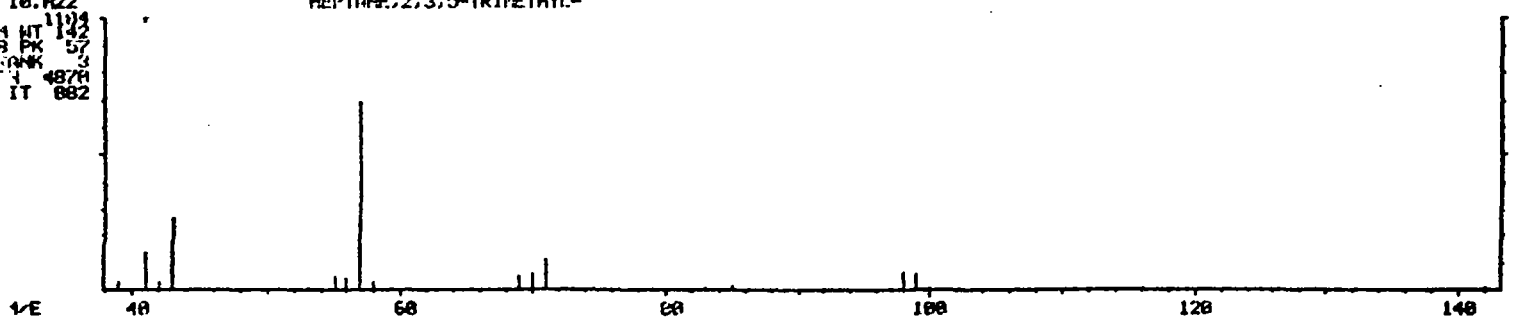
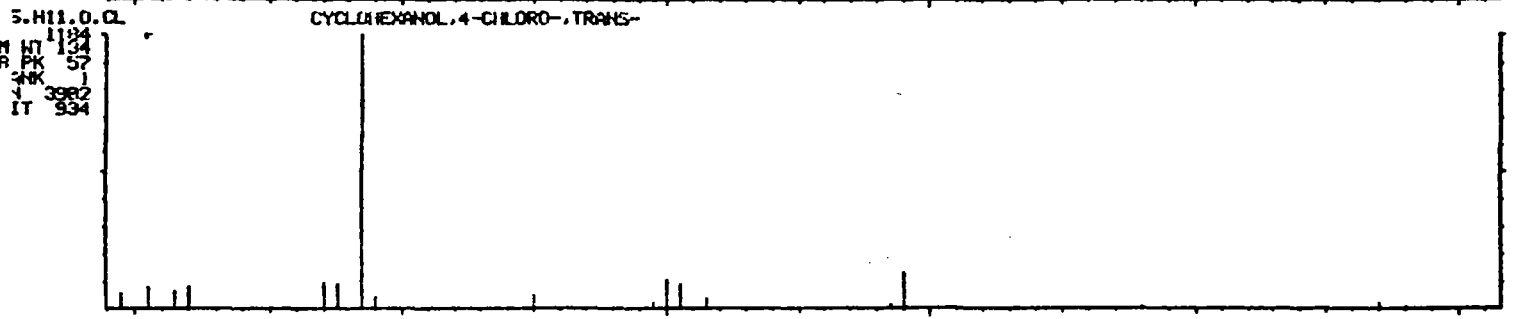
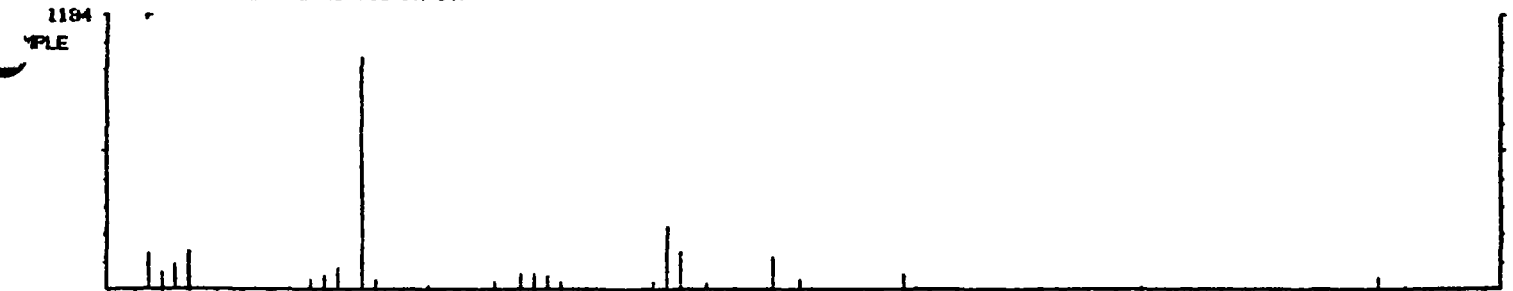
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO NAME
 1 D4-1,4-DICHLOROBENZENE (IS)
 2 DB-NAPHTHALENE (IS)
 3 D10-ACENAPHTHENE (IS)
 4 D10-PHENANTHRENE (IS)
 5 D12-CHRYSENE (IS)
 6 D-12 BENZO(A)PYRENE (IS)
 7 CYCLOHEXANOL,4-CHLORO-,TRANS-
 8 1,2-CYCLOHEXANEDIOL
 9 OCTANE,2,7-DIMETHYL-
 10 HEPTANE,3,3-DIMETHYL-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	507	8:27	1	1.000	A BB	43833.	40.000 UG/ML	6.86
2	136	691	11:31	2	1.000	A BB	171314.	40.000 UG/ML	6.86
3	164	968	16:08	3	1.000	A BB	98467.	40.000 UG/ML	6.86
4	188	1203	20:03	4	1.000	A BB	145494.	40.000 UG/ML	6.86
5	240	1636	27:16	5	1.000	A BB	132185.	40.000 UG/ML	6.86
6	264	1972	32:52	6	1.000	A BB	121968.	40.000 UG/ML	6.86
7	TOT	523	8:43	1	1.032	A UB	84756.	232.056 UG/L	39.81
8	TOT	555	9:15	1	1.095	A BB	28066.	76.843 UG/L	13.18
9	TOT	1041	17:21	3	1.075	A BB	20443.	24.910 UG/L	4.27
10	TOT	1649	27:29	5	1.008	A BU	10032.	9.108 UG/L	1.56

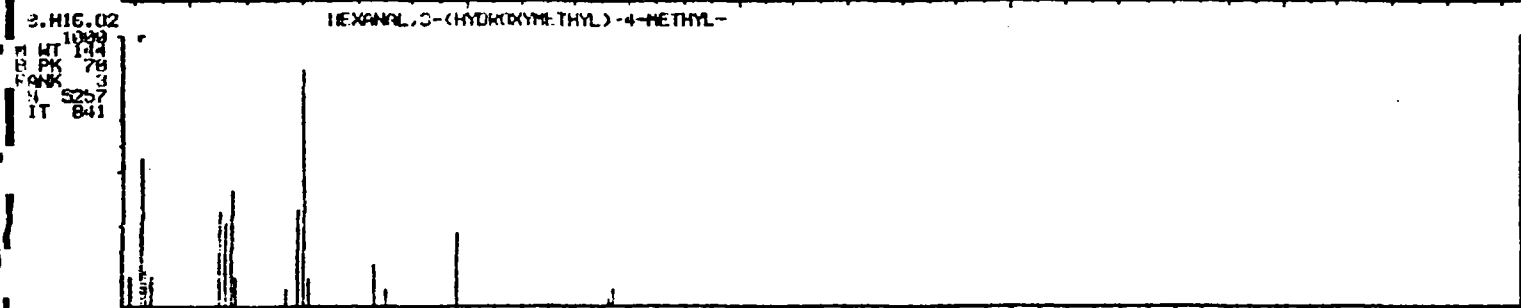
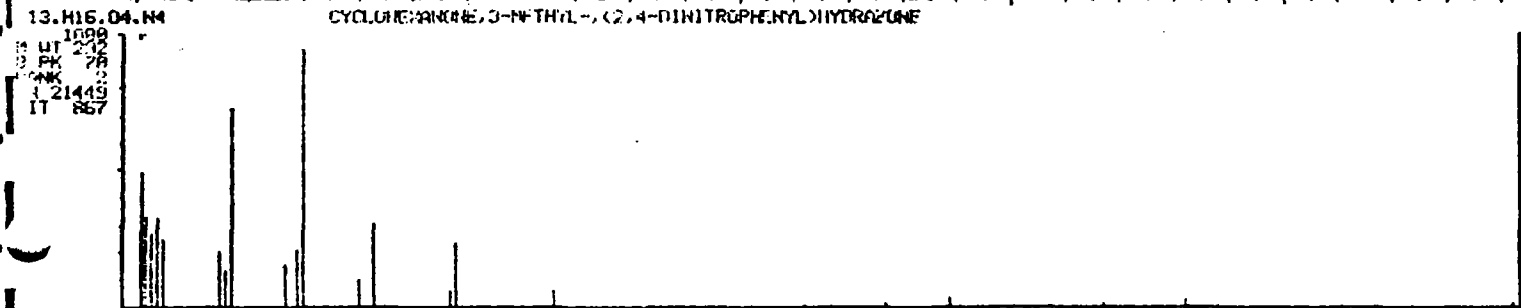
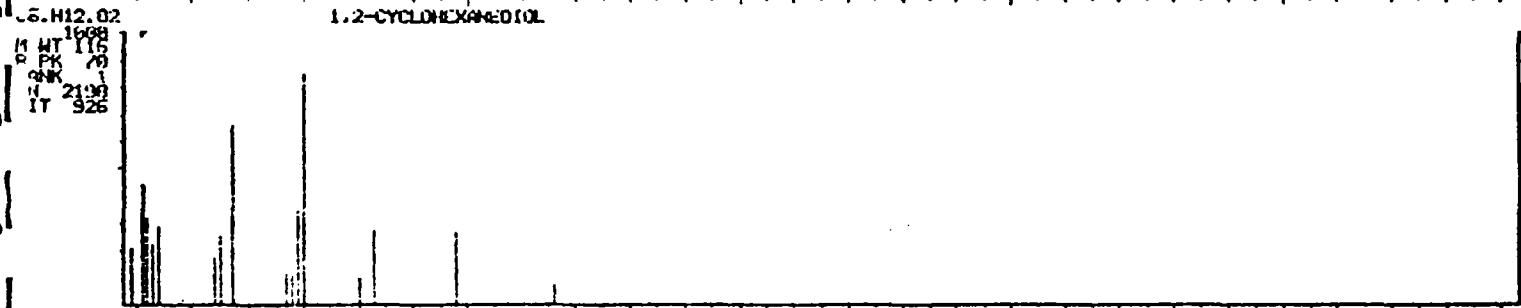
LIBRARY SEARCH
12/21/84 14:05:00 + 8:43
SAMPLE: 08163 1:1.12/10/84
ENHANCED (S 158 2N 01)

DATA: 2FU12851C84 # 523 BASE N/E: 57
CAL: F2CAL # 1 RIC: 33151.



LIBRARY SEARCH
12/21/84 14:00:00 + 9:15
SAMPLE: AB163 1:1,12/16/84
ENHANCED (S 158 2N 0T)

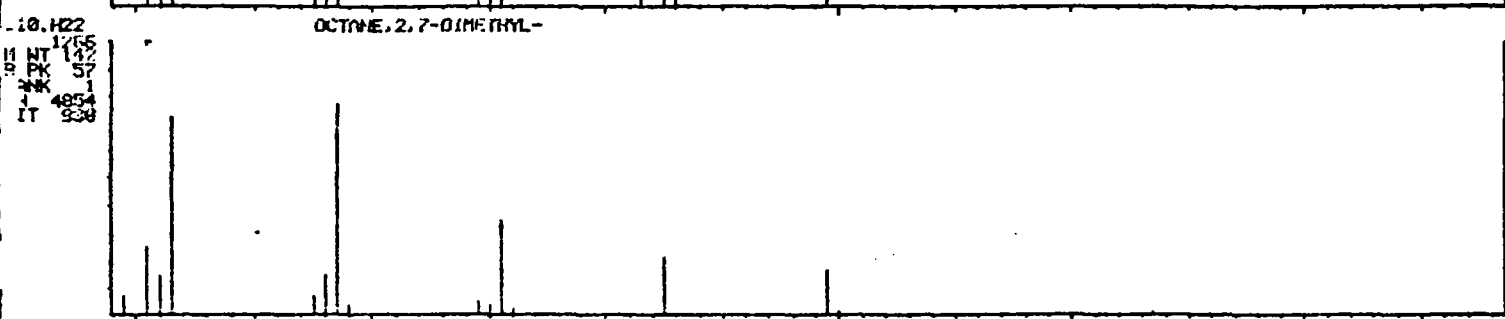
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CAL: F2CAL # 1 RIC: 18767.



1/E

LIBRARY SEARCH
12/21/84 14:05:00 + 17:21
SAMPLE: AB163 1:1.12/18/84
ENHANCED (S 15R 2N 8T)

DATA: 2F112051C04 01041 BASE N/E: 57
CAL: F2CAL # 1 RIC: 8390.



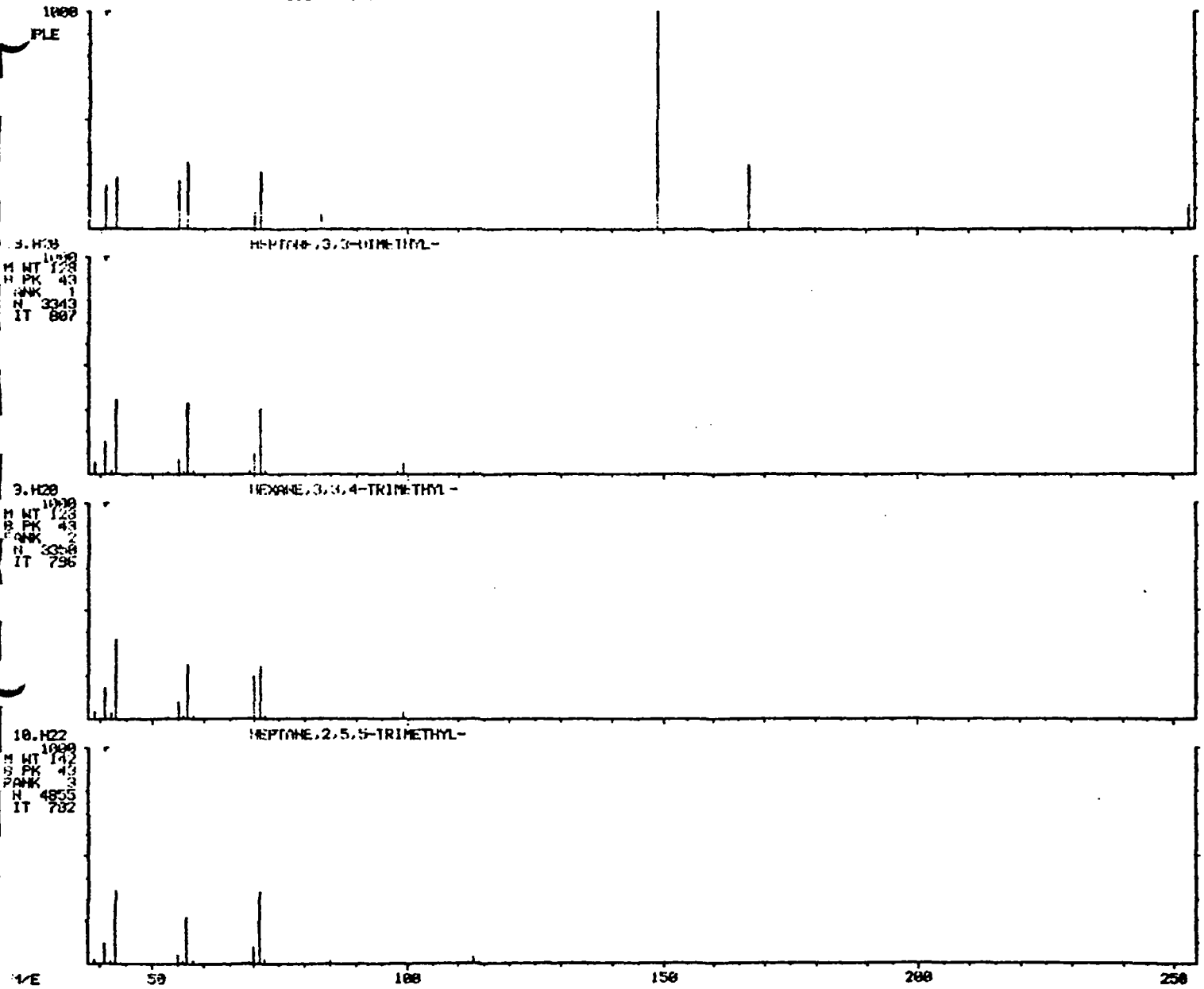
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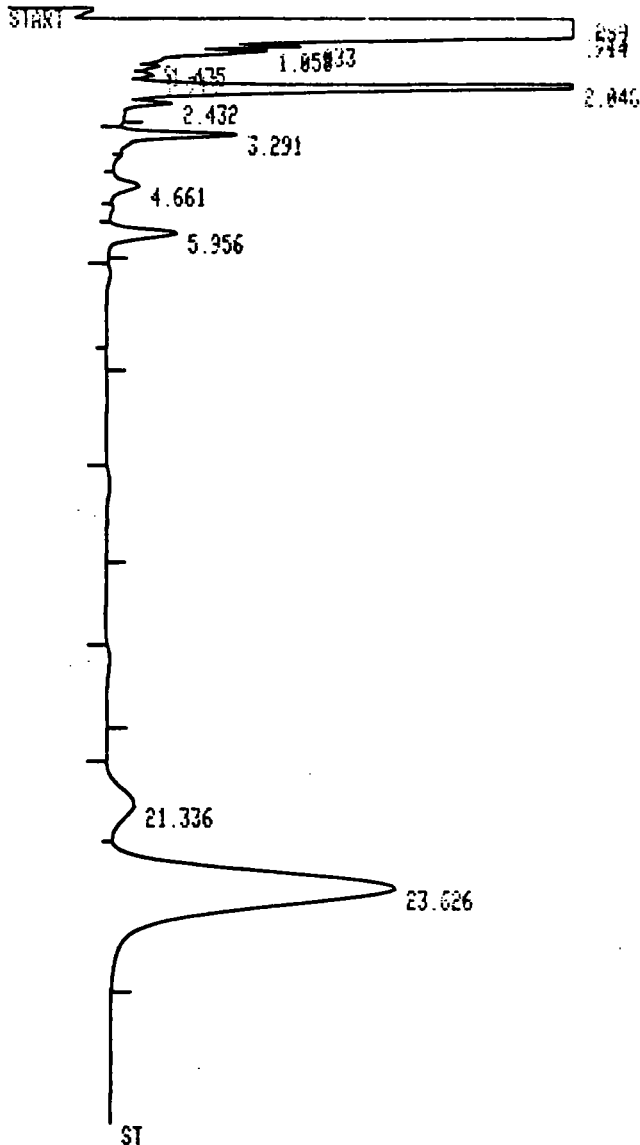
0030

LIBRARY SEARCH
12/21/84 14:05:00 + 27:29
SAMPLE: AB163 1:1.12/16/84
ENHANCED (S 158 2/N 0T)

DATA: ZEUI2051C04 #1649
CALI: FZCAL # 1

BASE M/E: 149
RIC: 3167.



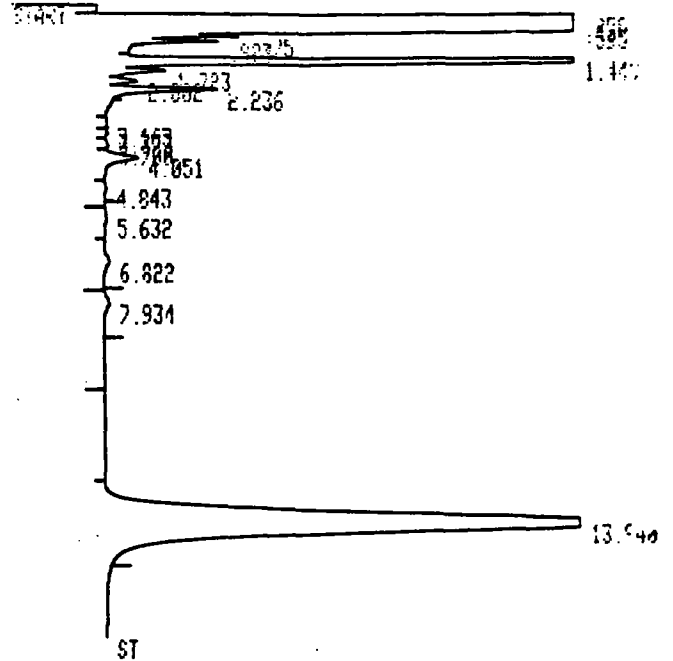


CASE NUMBER 3633
 SAMPLE ID AB163
 VOLUME INJECTED 2 uL
 COLUMN MP

3633
 RUN # 155 FEB/11/85 22:03:45
 WORKFILE ID: C S-2-50211-20
 WORKFILE NAME: 8412051-04A 1R
 ID: 5-1-2-84 RM MP-2 RM

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.299	2040620	SBH	0.097	52.172
0.523	400666	DTBB	0.072	10.244
0.714	1243537	DSHB	0.074	31.793
0.933	8680	DTBP	0.063	0.222
1.058	8327	DTPB	0.112	0.213
1.475	1234	D BP	0.075	0.032
1.719	1238	D PV	0.098	0.032
2.048	138727	VV	0.125	3.547
2.432	4910	D VB	0.110	0.126
3.291	14190	BV	0.192	0.363
4.661	3284	PV	0.321	0.084
5.956	8164	PB	0.289	0.209
21.336	3251	BV	0.979	0.083
23.626	34470	VB	1.136	0.881

TOTAL HGHT= 3911300
 MUL FACTOR= 1.0000E+00



CASE NUMBER 2633
 SAMPLE ID AB163
 VOLUME INJECTED 2 uL
 COLUMN SP

2633

RUN # 391 FEB/17/85 21:45:30
 ID 1-1-1-85 1-1-50217-13 2 uL
 8412051-04A Root
 Run SP

RT	HEIGHT%	HEIGHT	TYPE	AR/HT	HEIGHT%
0.259	2505086	SPH	0.124	27.230	
0.438	1806205	DSHH	0.153	20.141	
0.595	2400401	DSHH	0.111	26.853	
0.775	49988	DTBP	0.064	0.557	
0.923	69418	DTPB	0.078	0.774	
1.449	1392098	SHB	0.140	15.523	
1.723	35306	DTBP	0.101	0.294	
2.002	19814	TPV	0.109	0.221	
2.236	100065	TVB	0.120	1.116	
3.163	1111	TBY	0.213	0.012	
3.373	1651	TVV	0.155	0.018	
3.700	2310	TVV	0.179	0.026	
4.051	32116	TYP	0.220	0.358	
4.843	1492	TPB	0.218	0.017	
5.632	2091	BY	0.311	0.023	
6.822	5427	VB	0.389	0.061	
7.934	5342	BB	0.395	0.066	
13.840	529768	PB	0.592	5.908	

TOTAL HGHT= 8967700
 MUL FACTOR= 1.0000E+00

Sample Number
AB164
 FIELD BLANK
0093

Organics Analysis Data Sheet
 (Page 1)

Laboratory Name: Radian
 Lab Sample ID No: 4FW12051V05
 Sample Matrix: Water
 Data Release Authorized By: Z. Peterson

Case No: 3633
 OC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-13-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
 Date Extracted/Prepared: _____
 Date Analyzed: 12-13-84
 Conc/Dil Factor: 111 pH _____
 Percent Moisture: 100%
 Percent Moisture (Decanted): _____

*see p 8
 12/10/84*

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U J
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U ↓
75-09-2	Methylene Chloride	200 R
67-64-1	Acetone	430U J 10U
75-15-0	Carbon Disulfide	5U J
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U ↓
67-66-3	Chloroform	455 R
107-06-2	1, 2-Dichloroethane	5U J
78-93-3	2-Butanone	R 8205 J
71-55-6	1, 1, 1-Trichloroethane	25 U J 5U
56-23-5	Carbon Tetrachloride	5U J
108-05-4	Vinyl Acetate	10U J
75-27-4	Bromodichloromethane	5U J

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U J
78-87-5	1, 2-Dichloropropane	5U
10061-02-6	Trans-1, 3-Dichloropropene	5U
79-01-6	Trichloroethene	5U
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	5U
71-43-2	Benzene	5U
10061-01-5	cis-1, 3-Dichloropropene	5U
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	5U
100-42-5	Styrene	5U
	Total Xylenes	5U Y

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than the minimum detection limit (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

0094

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB164

Organics Analysis Data Sheet
(Page 2)

Field
Blank
acc for ET 1/10/84

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-21-84Conc/Dil Factor: 1000:1

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	105
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10x105.8 R
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benz(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10x105 R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benz(b)Fluoranthene	10u
207-08-9	Benz(k)Fluoranthene	10u
50-32-8	Benz(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benz(a, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB164

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 2-11-85
Conc/Dil Factor: 1000ml : 5ml

acc per 5/10/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

- V_i = Volume of extract injected (ul)
- V_s = Volume of water extracted (ml)
- W_s = Weight of sample extracted (g)
- V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 ul V_i 2 ul

0096

SAMPLE NUMBER:
AB164

an
5-10-88

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L) OR UG/K
1 29538-77-0	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	523	} 113 47 22 19
2 931-17-9	1,2-CYCLOHEXANEDIOL	ABN	555	
3 141-14-0	6-OCTEN-1-OL, 3,7-DIMETHYL-, PROPANOATE	ABN	1848	
4 935-67-1	BENZENE, (1-METHOXY-1-METHYLETHYL)-	ABN	2026	

No Volatile compounds detected

CALL: FACAL 01

12/13/84 18:38:C3
SAMPLE: F4.D.EPA.AB164.C3.V.1:1.MAS
RANGE: 6 1. 659 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

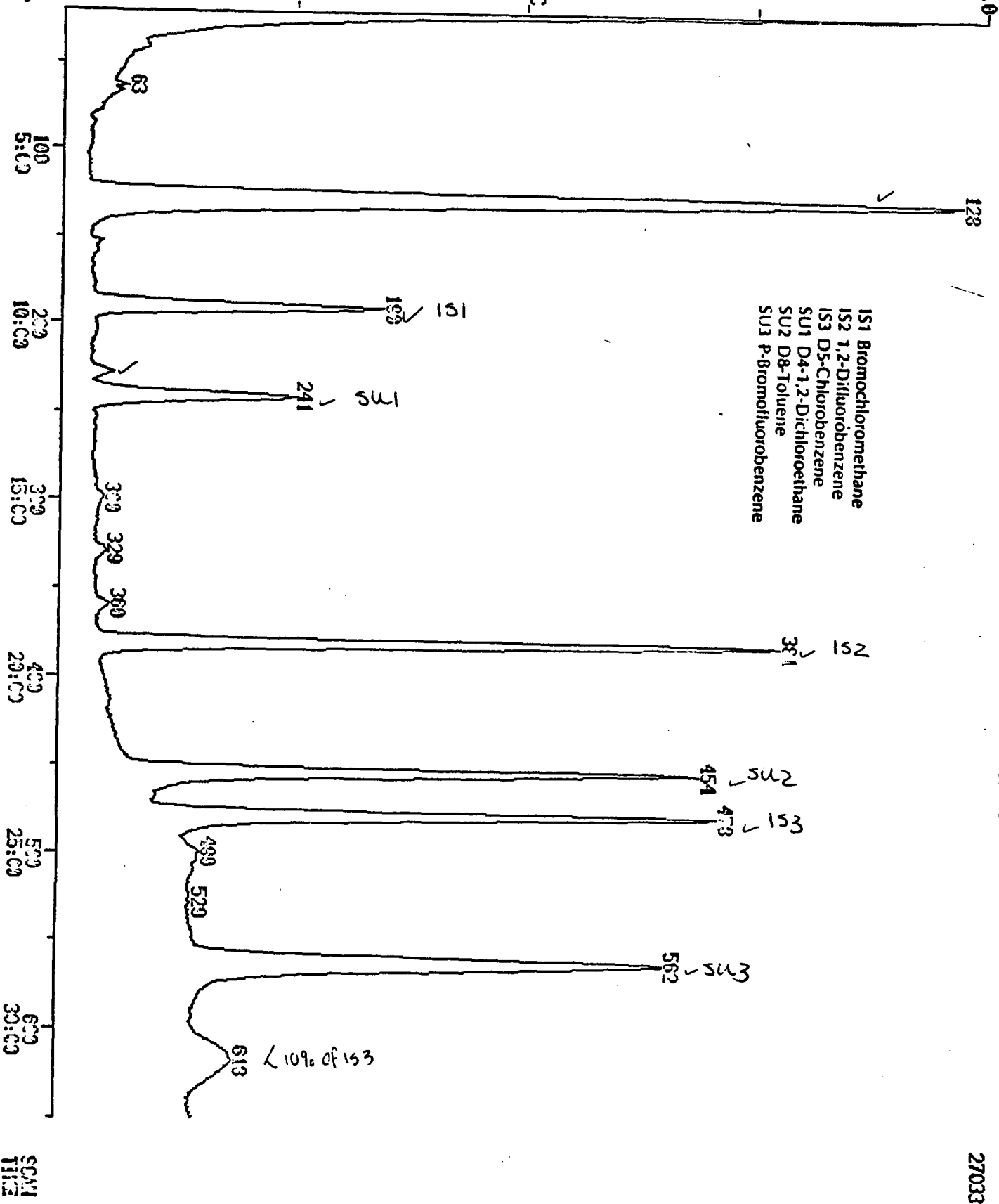
270336.

0097

100.0

RIC

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4EU12051V05.TI

12/13/84 18:38:00

SAMPLE: F4,D,EPA,AB164,00,V,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

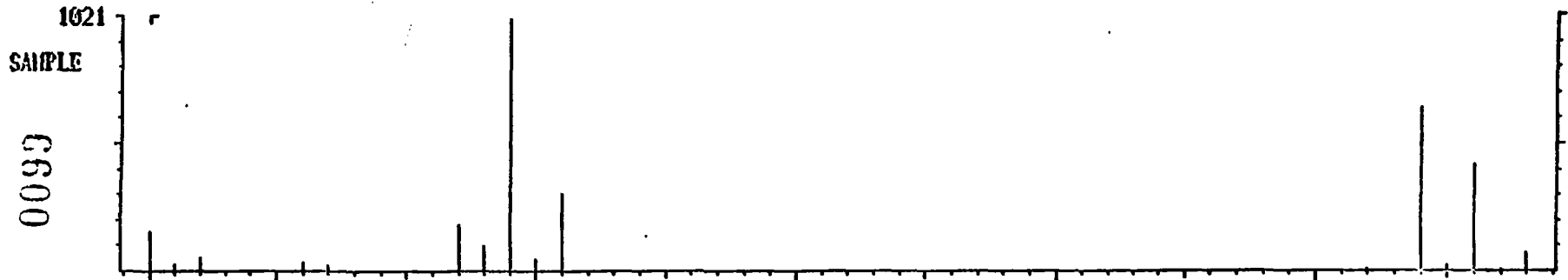
NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	METHYLENE CHLORIDE
8	CHLOROFORM
9	2-BUTANONE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	198	9:30	1	1.000	A BB	68429.	58.888 UG/L	7.97
2	67	241	12:03	1	1.268	A BB	77640.	98.639 %	14.44
3	114	331	19:03	3	1.000	A BB	447357.	58.888 UG/L	7.97
4	117	478	23:54	4	1.000	QEDT	394364.	58.888 UG/L	7.97
5	99	454	22:42	4	0.950	A7SV	364140.	87.722 %	13.98
6	95	552	28:05	4	1.175	A7CB	271120.	98.414 %	14.41
7	84	128	6:24	1	0.674	A BB	443284.	195.597 UG/L	31.34
8	83	228	11:24	1	1.000	A BB	17021.	4.133 UG/L	0.66
9	43	240	12:00	3	0.630	A7VY	19556.	8.055 UG/L	1.28

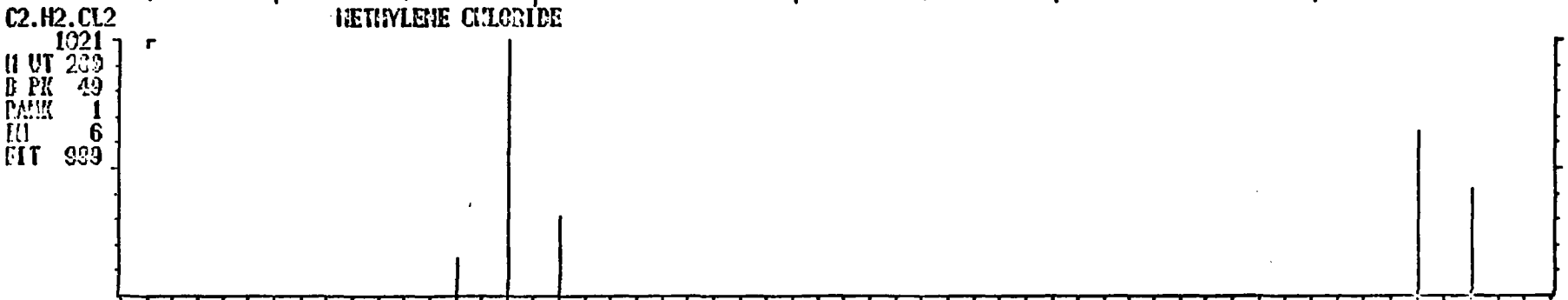
12/13/84 18:38:09 + 6:24
SAMPLE: F4.D.EPA.AB104.C9.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL 0 1

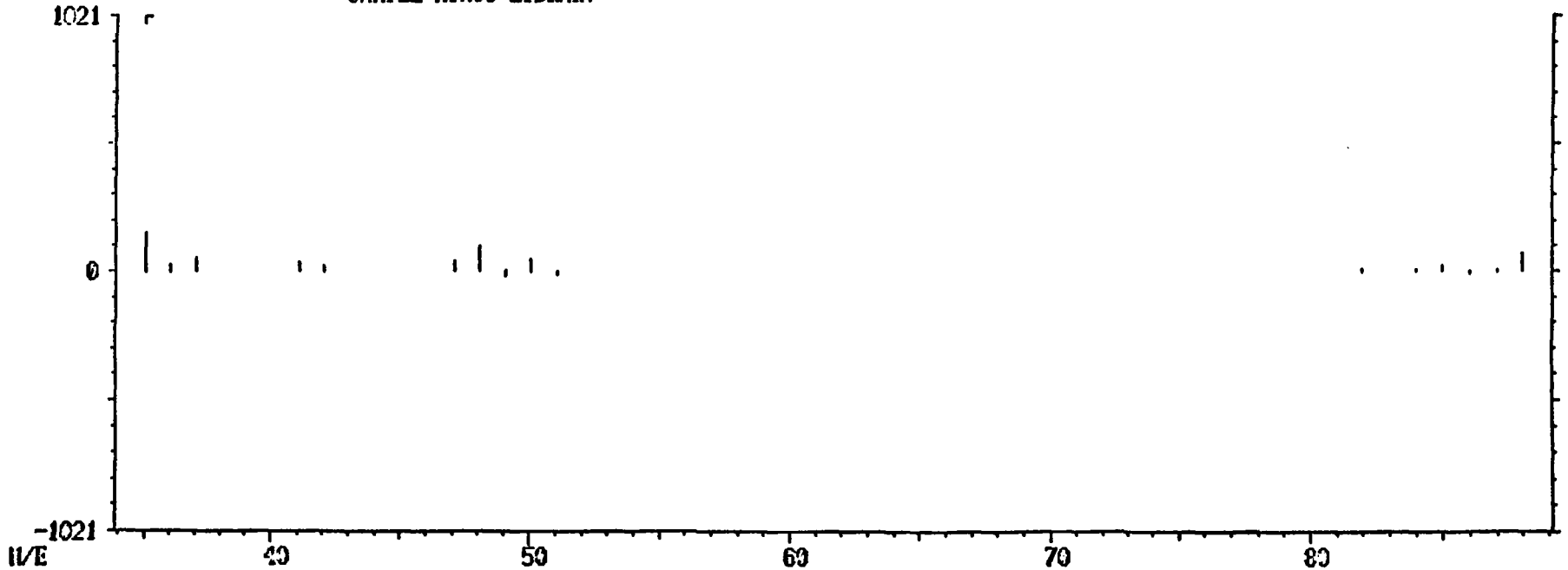
RIC: 22659.



METHYLENE CHLORIDE



SAMPLE MINUS LIBRARY



11/E

40

50

60

70

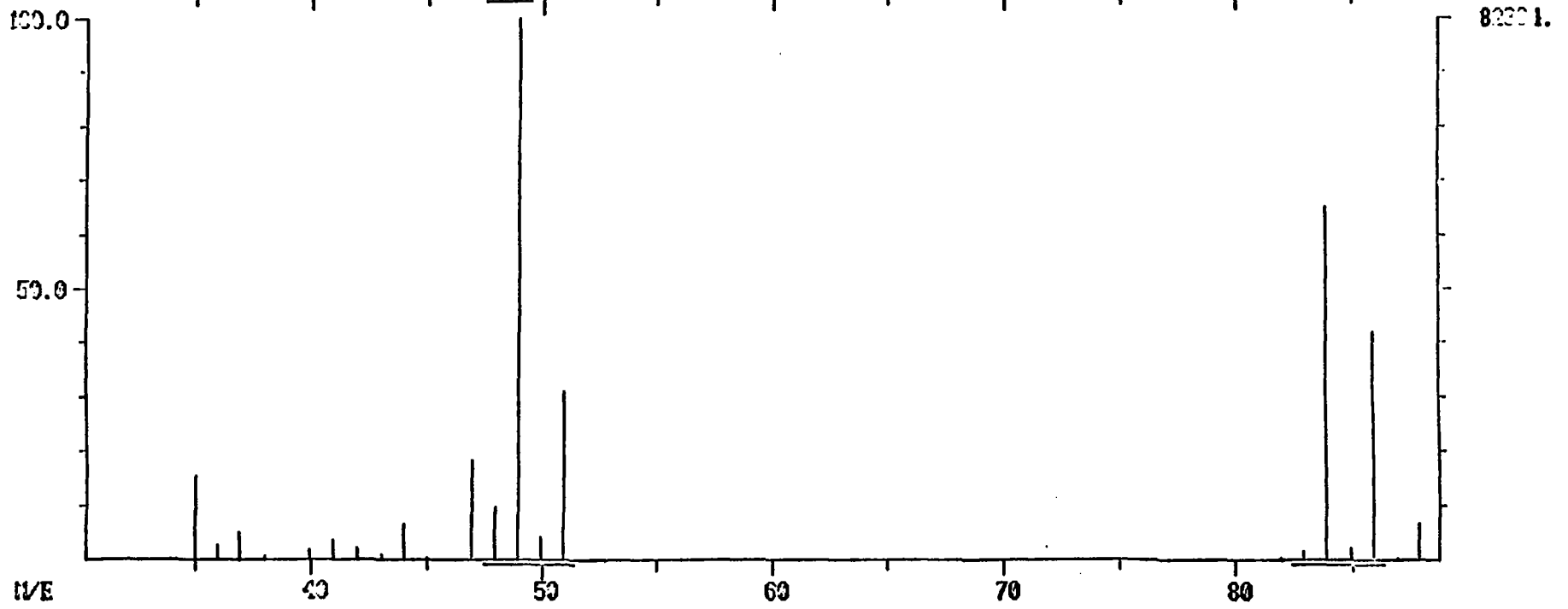
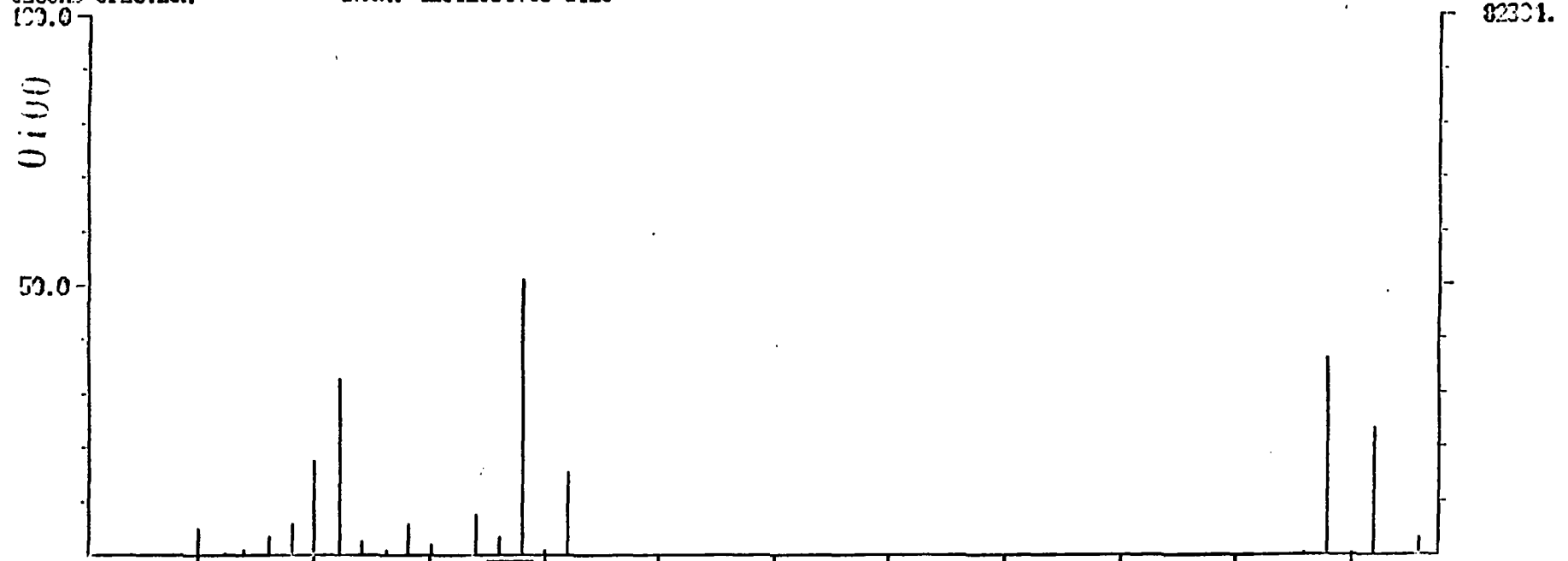
80

10/15/84 6:32:03 + 4:48
SAMPLE: F1.D.VEB.COICQ.CO.V.IA:CA.IAS
DATA: 4EU12851VCS 0128

CALI: F4CAL 01

RIC: 177913.7 284191.

SECOND SPECTRUM

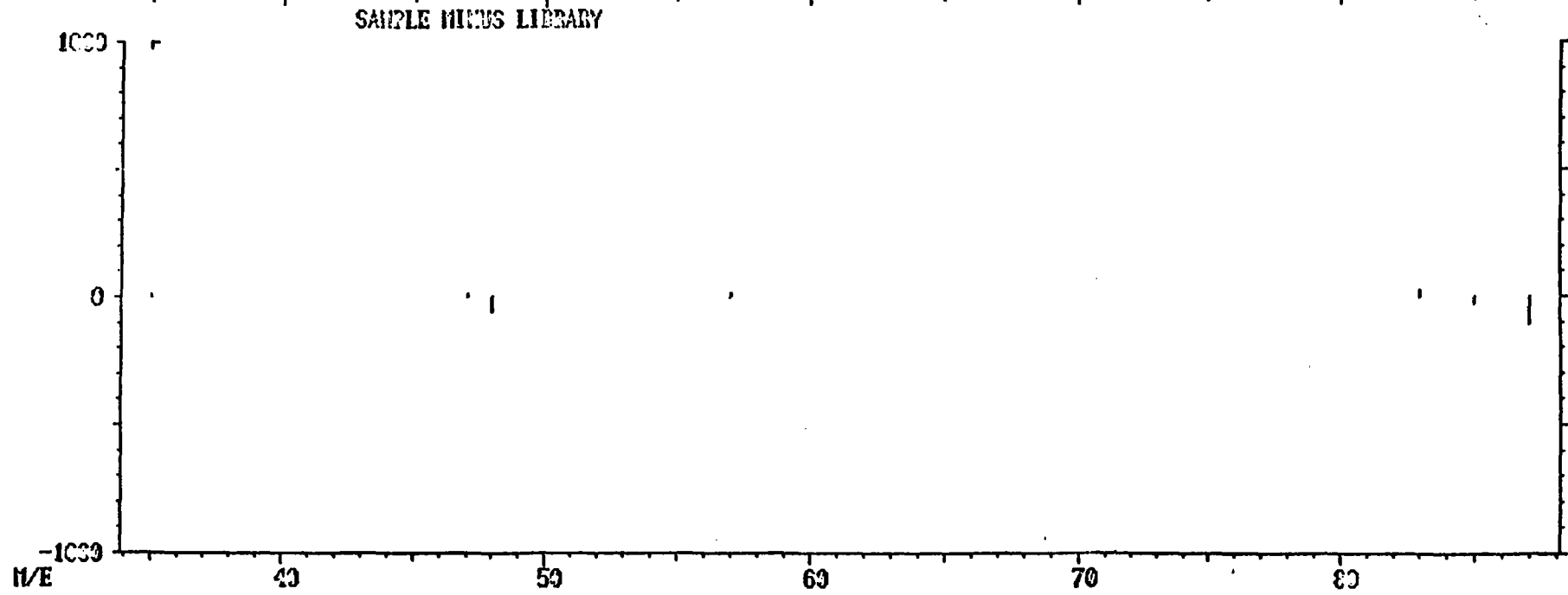
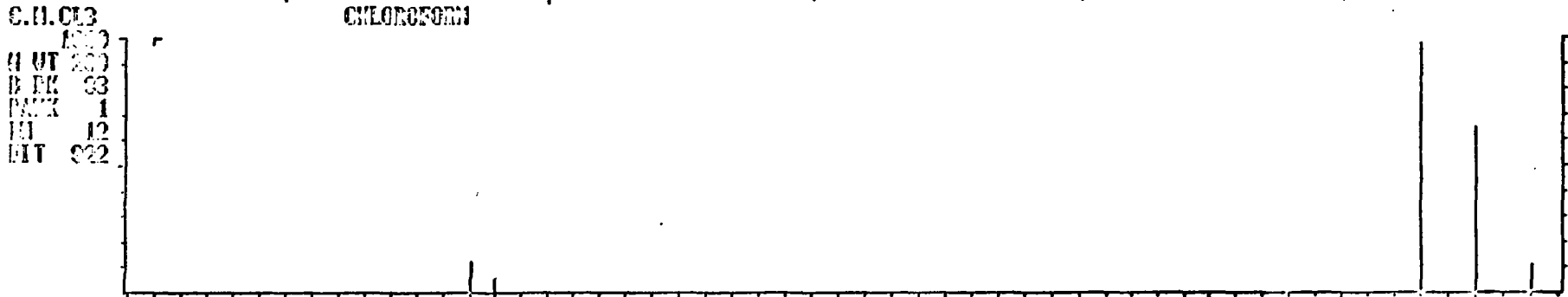
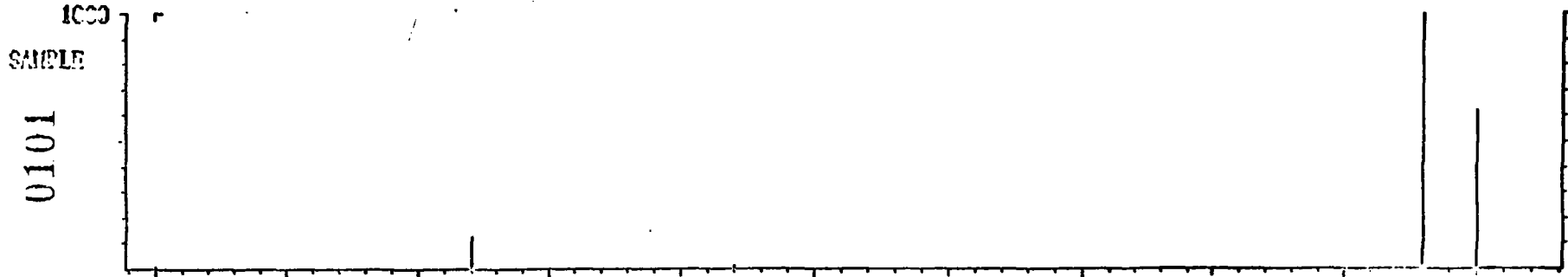


m/e

LIBRARY SEARCH
12/13/84 18:38:00 + 11:24
SAMPLE: F4.D.EPA.AB104.CO.V.1:1.NAS
ENHANCED (S 15B 2H 6T)

CALI: FOCAL 8 1

RIC: 6015.

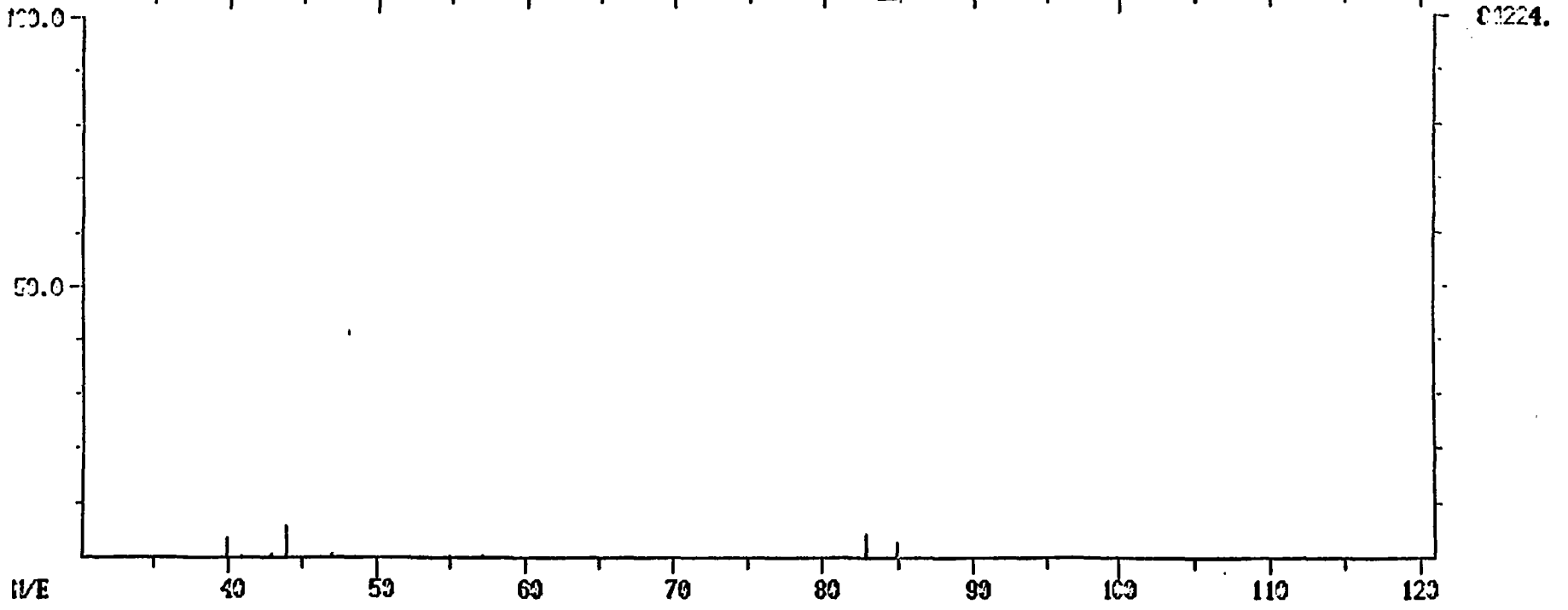
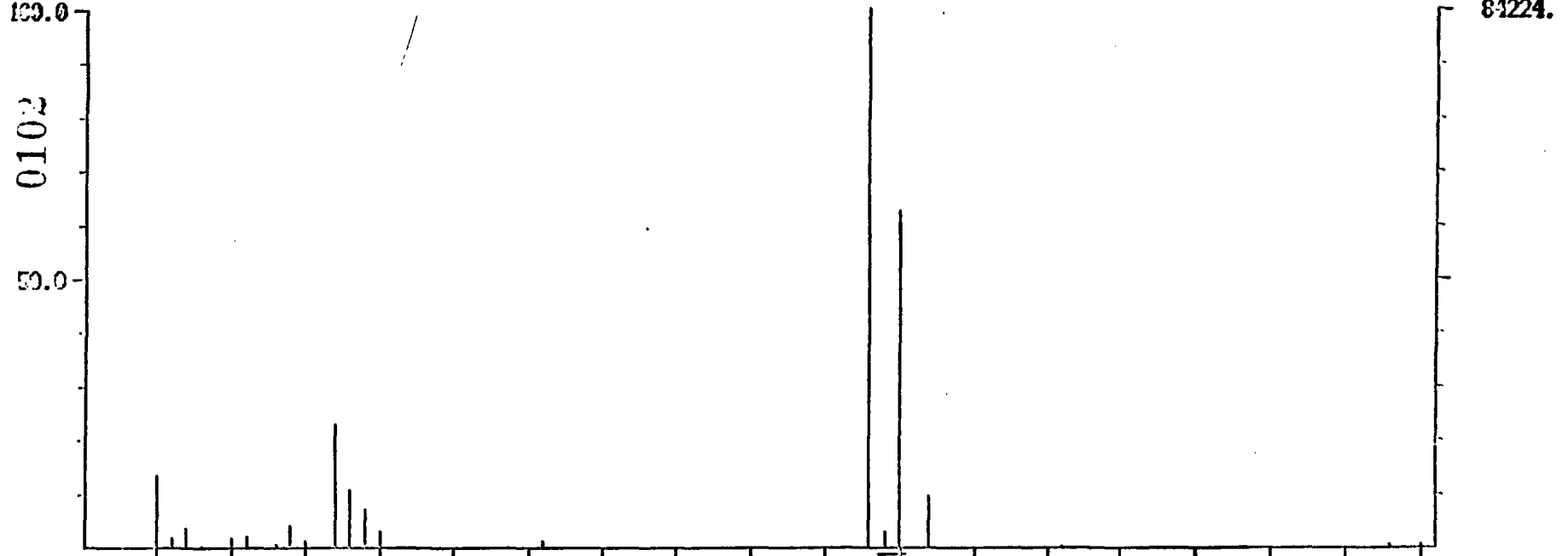


10/15/84 6:32:00 + 9:57
SAMPLE: F4.D.VER.C91C9.CO.V.NA:MA.NAS
DATA: 4EU12051V05 0228

CALI: FSCAL 01

RIC: 210943./ 15071.

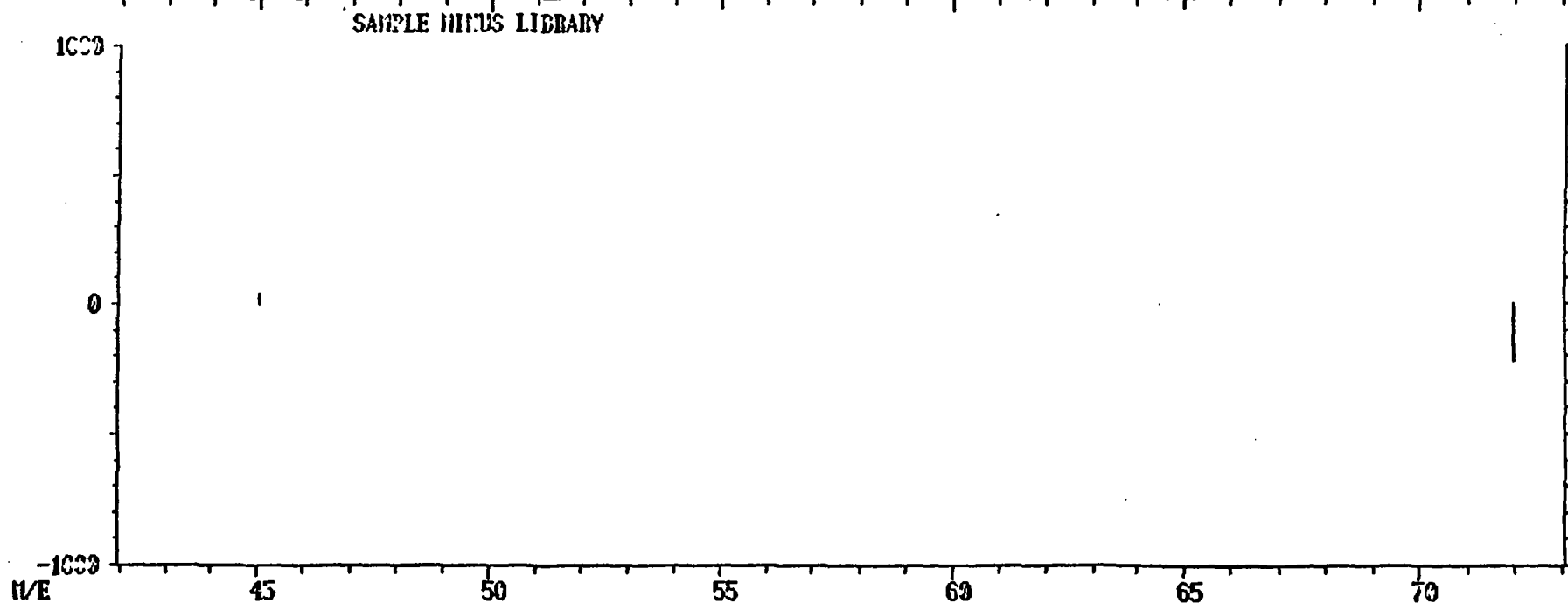
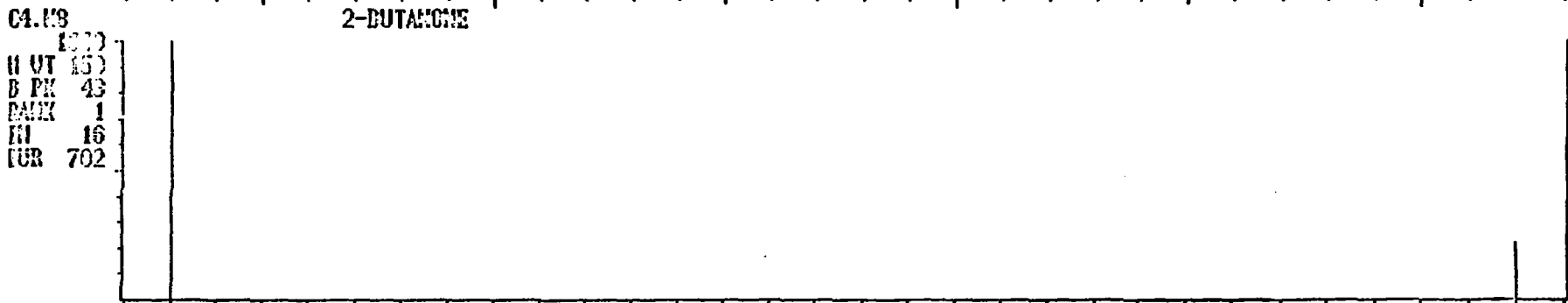
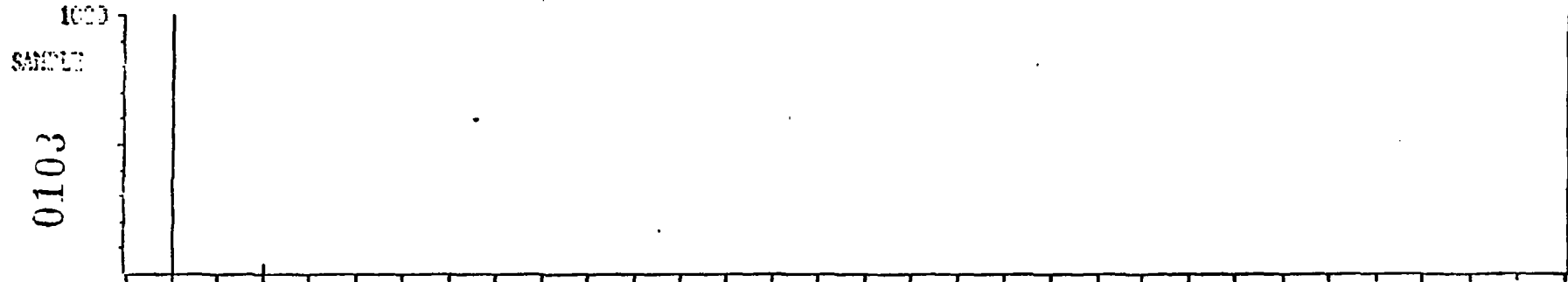
SECOND SPECTRUM



LIBRARY SEARCH
12/13/84 18:38:03 + 11:51
SAMPLE: F4.D.EPA.AB104.C0.V.1:1.NAS
ENHANCED (S 15B 2H 07)

CALI: F4CAL 0 1

RIC: 764.



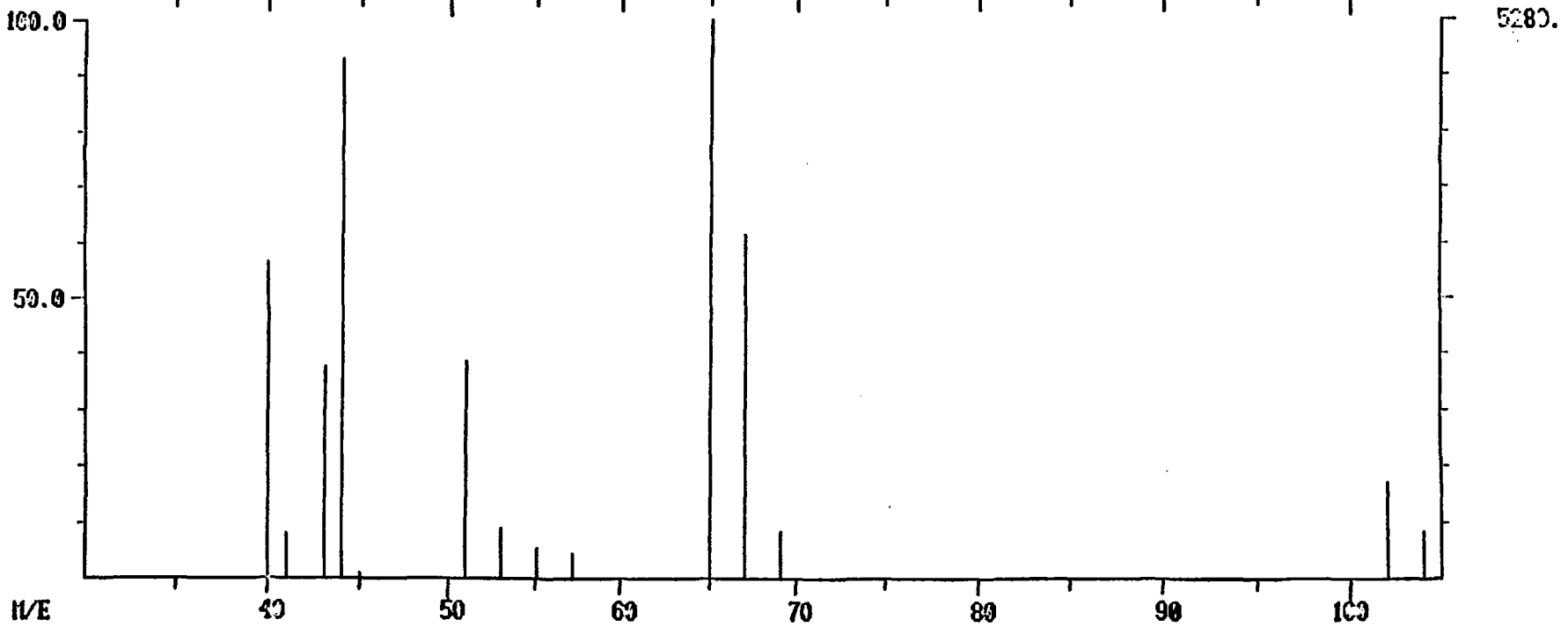
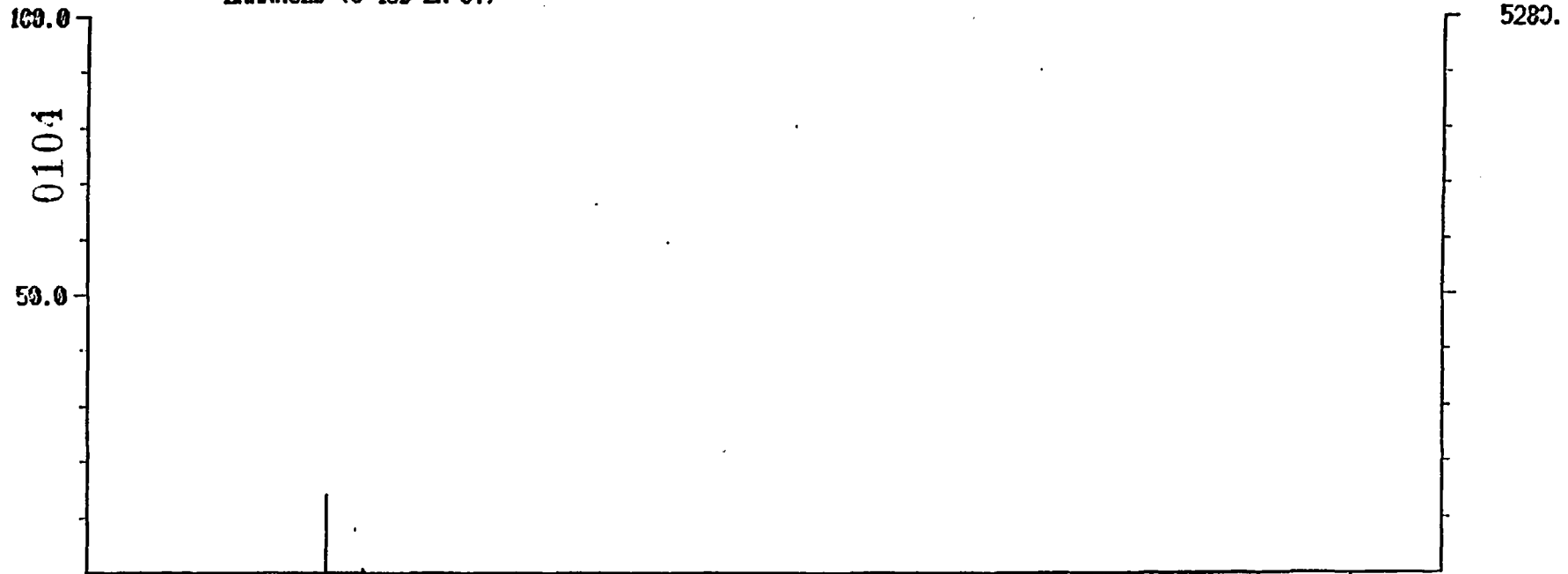
M/E 45 50 55 60 65 70



12/13/84 18:38:00 + 11:51
SAMPLE: F4.D.EPA.AB104.C0.V.1:1.NAS
ENHANCED (S 15B 2N 0T)

CALI: F4CAL 01

RIC: 764.7 23775.



RIC
12/21/84 15:04:00
SAMPLE: AB164 1:1.12/10/84
RANGE: G 1.2539 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

DATA: 2EU12051C05 #1
CALI: F2CAL #1

SCANS 300 TO 2539

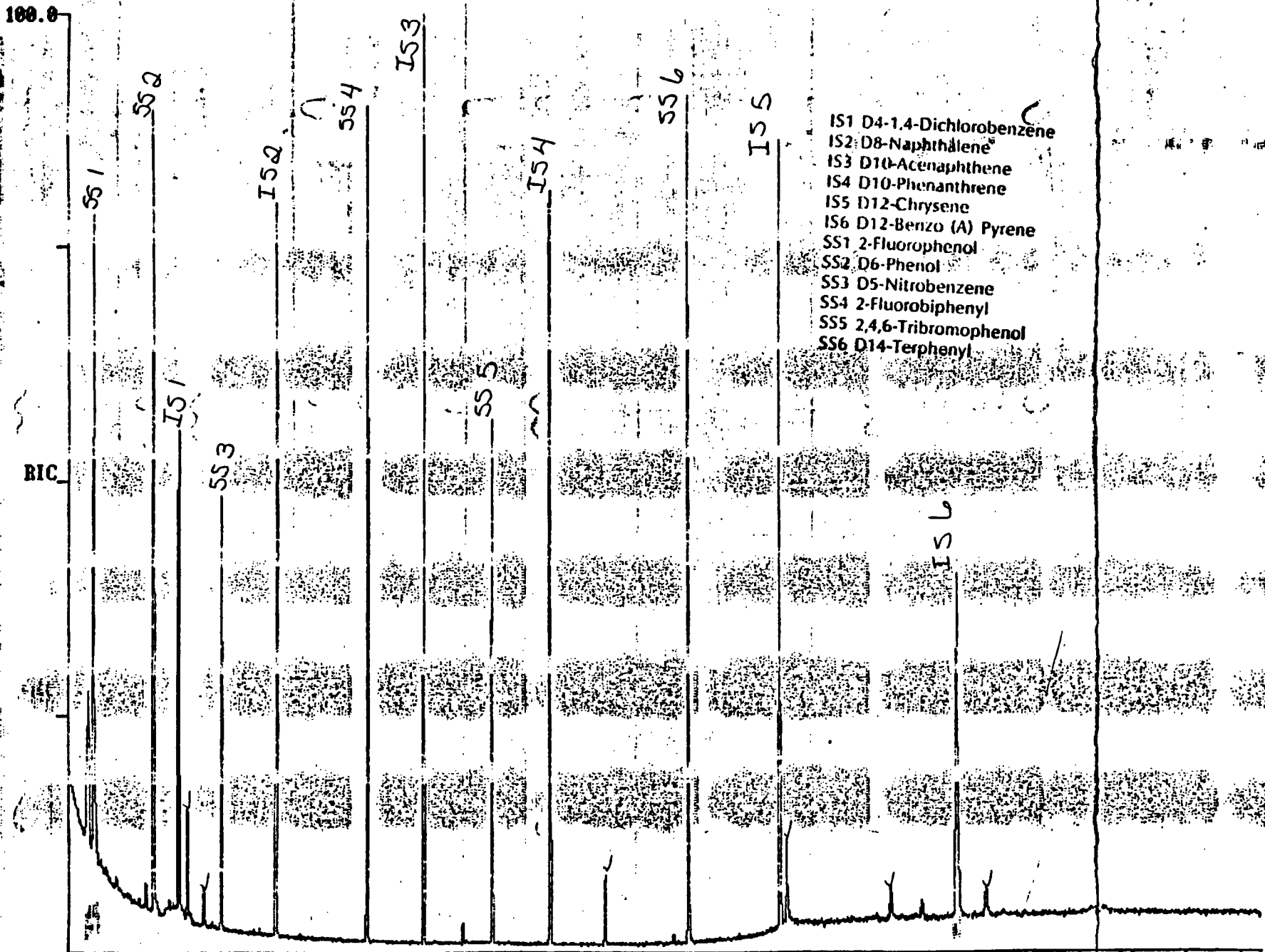
234240.

0105

RADIAN DC • FC43-0

ANALYST:LK

RIC



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500

1000
:40

1500

2000
:20

2500

SCAN
TIME

DATA: 2EU12051C05.T1

0106

12/21/84 15:04:00

SAMPLE: AB164 1:1.12/10/84

SUBMITTED BY: EPA

ANALYST: LK

AMOUNT-AREA(HGHT) * REF.AMNT/(REF.AREA(H-IT))* RESP FACT

ESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLORO-BENZENE (IS)
- 2 D8-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 P-ENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPENE (SS)
- 13 PHENOL
- 14 DI-N-BUTYL-PHTHALATE
- 15 BIS(2-ETHYLHEXYL)-PHTHALATE

NO	M/E	SCAN	TIME	REF	RET	METH	AREA(HGHT)	AMOUNT	*10T
1	152	507	8:27	1	1.000	A BB	58345.	40.000	UG/ML 3.90
2	136	691	11:31	2	1.000	A7BB	196577.	40.000	UG/ML 3.80
3	164	968	16:08	3	1.000	A BB	119951.	40.000	UG/ML 3.90
4	188	1203	20:07	4	1.000	A BB	187108.	40.000	UG/ML 3.90
5	240	1637	27:17	5	1.000	A BB	161865.	40.000	UG/ML 3.80
6	264	1973	32:53	6	1.000	A BB	142260.	40.000	UG/ML 3.80
7	112	349	5:49	1	0.688	A7BV	115248.	187.556	X 17.83
8	99	461	7:41	1	0.979	A BB	198544.	207.552	X 19.73
9	82	587	9:47	2	0.849	A BB	74315.	66.688	X 6.34
10	172	862	14:22	3	0.830	A BB	159473.	106.149	X 10.09
11	330	1094	18:14	3	1.170	A BB	38575.	125.539	X 11.93
12	244	1465	24:25	5	0.895	A BB	189483.	99.574	X 9.47
13	94	463	7:43	1	0.913	A BB	11473.	6.592	UG/ML 0.63
14	149	1308	21:48	4	1.097	A BB	28651.	5.857	UG/ML 0.56
15	149	1650	27:39	5	1.000	A BB	23081.	6.383	UG/ML 0.61

LIBRARY SEARCH
12/21/84 15:04:00 + 7:43
SAMPLE: AB164 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

DATA: 2EU12051C05 # 463
CALI: F2CAL # 1

BASE N/E: 94
RIC: 11039.

020

1000
SAMPLE

0107

PHENDL

1000
M UT 150
B PK 94
RANK 1
IN 3
RFT 579

SAMPLE MINUS LIBRARY

1000

0

-1000

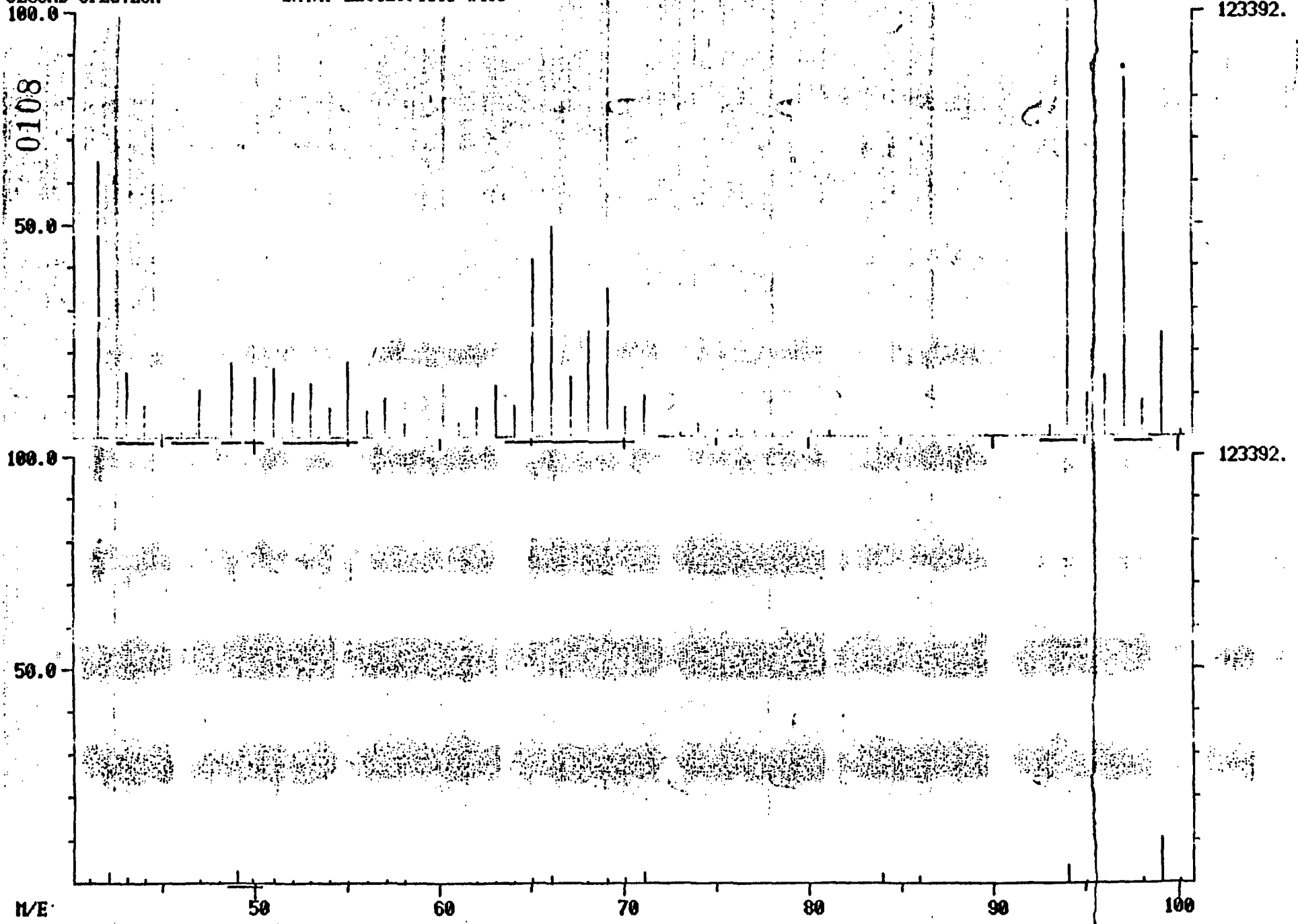
N/E 40 50 60 70 80 90

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 7:35
SAMPLE: F2.D.CAL.00080.00.C.NA.NAS
DATA: 2EU12051C05 #463

DATA: EPSTD #455
CALI: F2CAL #1

BASE M/E: 94/ 99
RIC: 847871./ 51391.

SECOND SPECTRUM

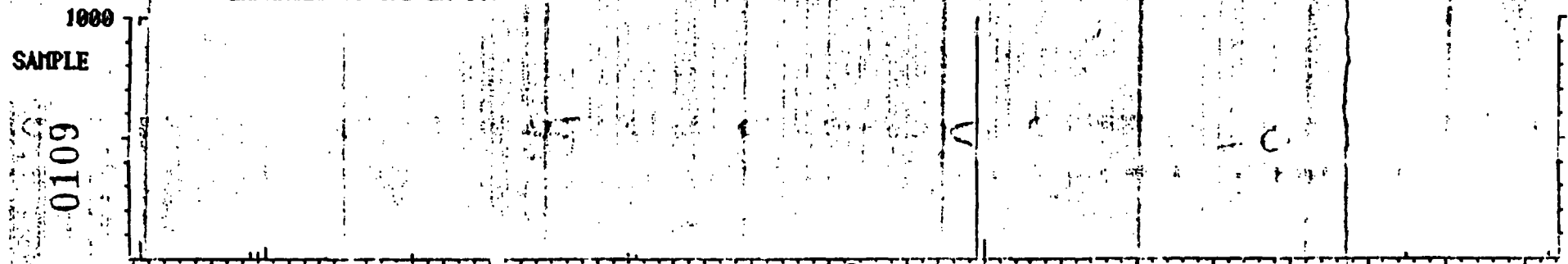


LIBRARY SEARCH
12/21/84 15:04:00 + 21:48
SAMPLE: AB164 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

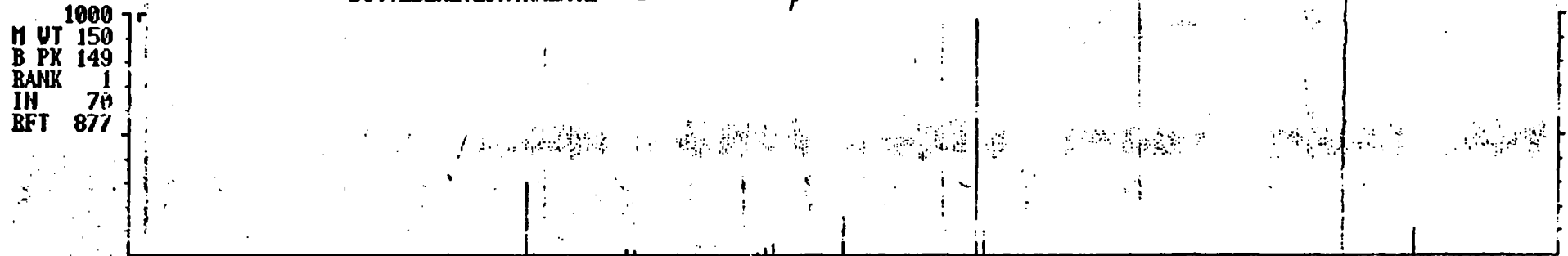
DATA: 2EU12051005 #1308
CALI: F2CAL # 1

BASE N/E: 149
RIC: 14447.

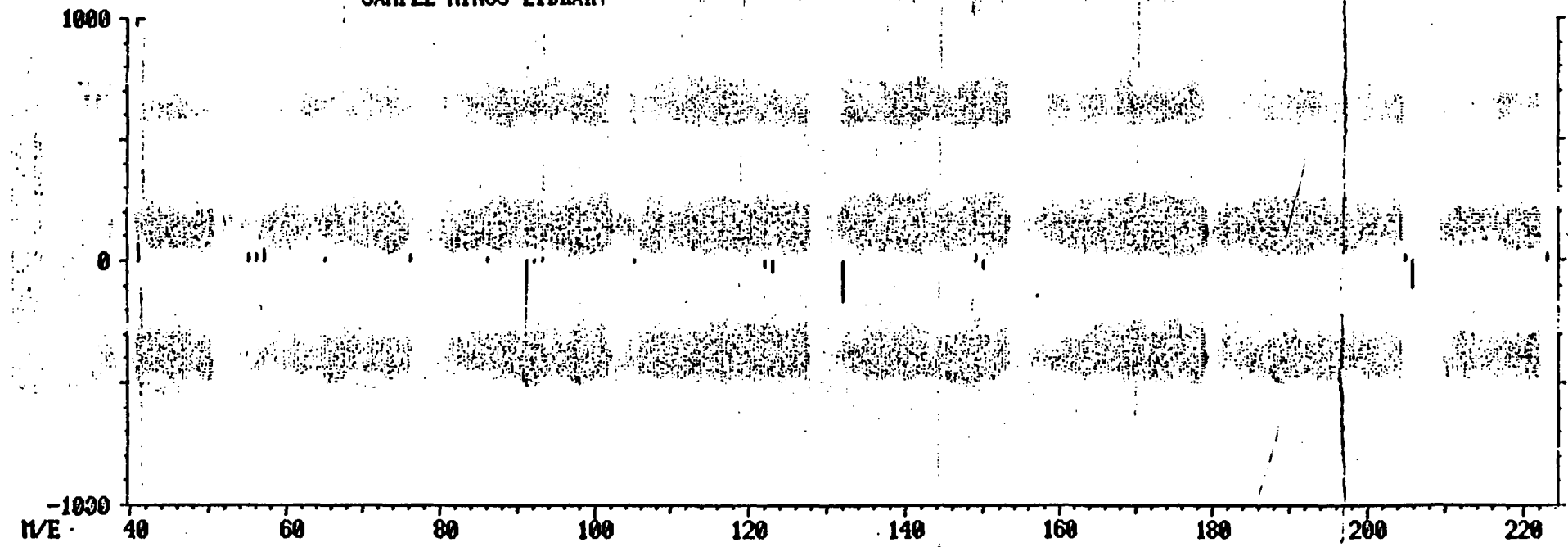
100



~~DIBUTYLTEREPHTHALATE~~ DI-N-BUTYL PHTHALATE



SAMPLE MINUS LIBRARY

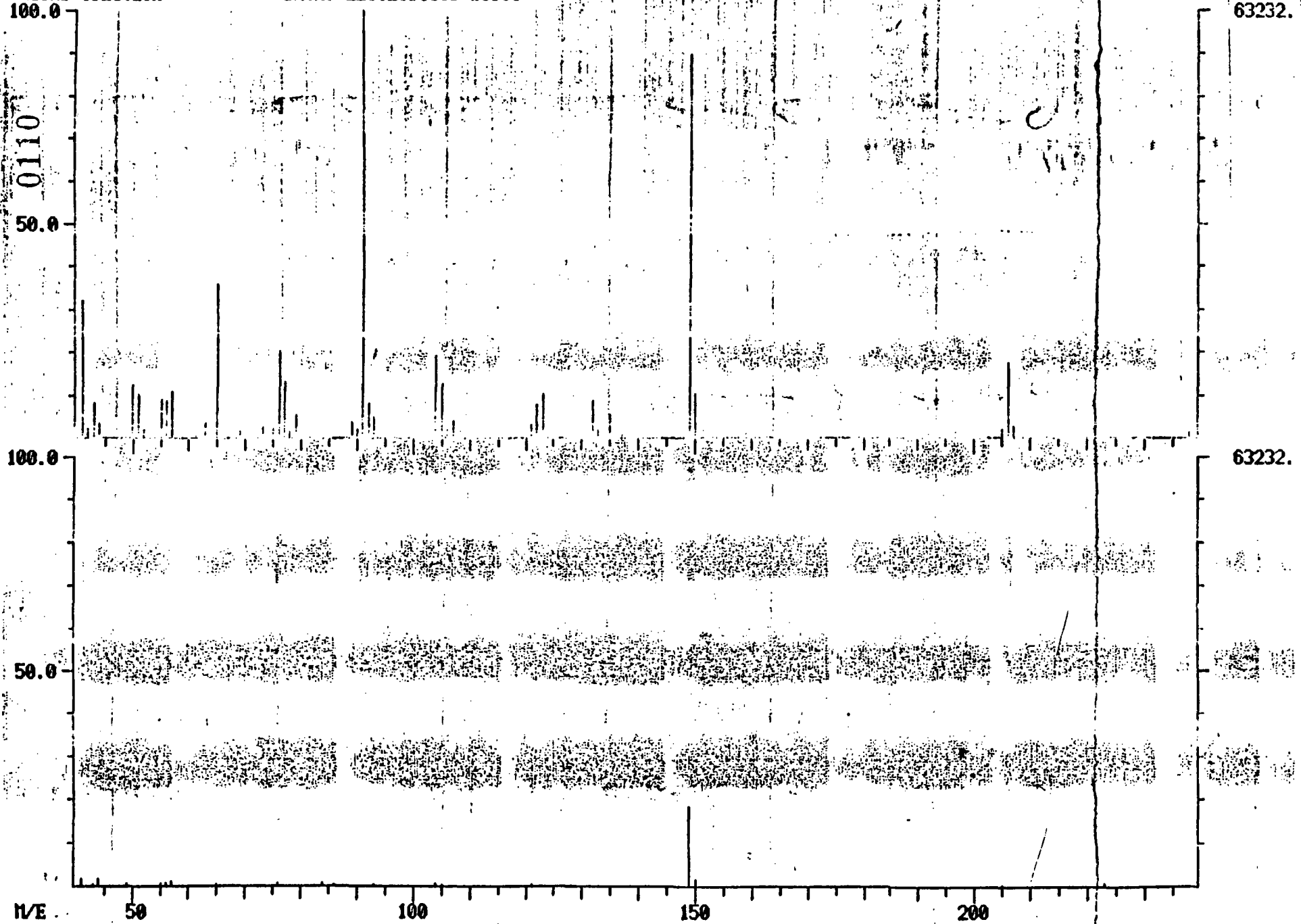


DUAL MASS SPECTRUM
11/09/84 4:38:00 + 25:34
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.NAS
DATA: 2EU12051C05 #1308

DATA: EPSTD #1534
CALI: F2CAL #1

BASE N/E: 91/ 149
RIC: 316927./ 18783.

SECOND SPECTRUM

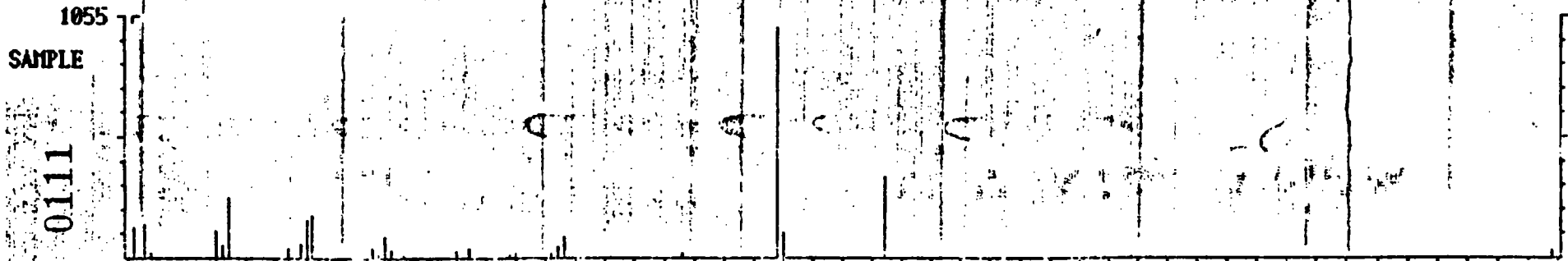


LIBRARY SEARCH
12/21/84 15:04:00 + 27:30
SAMPLE: AB164 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

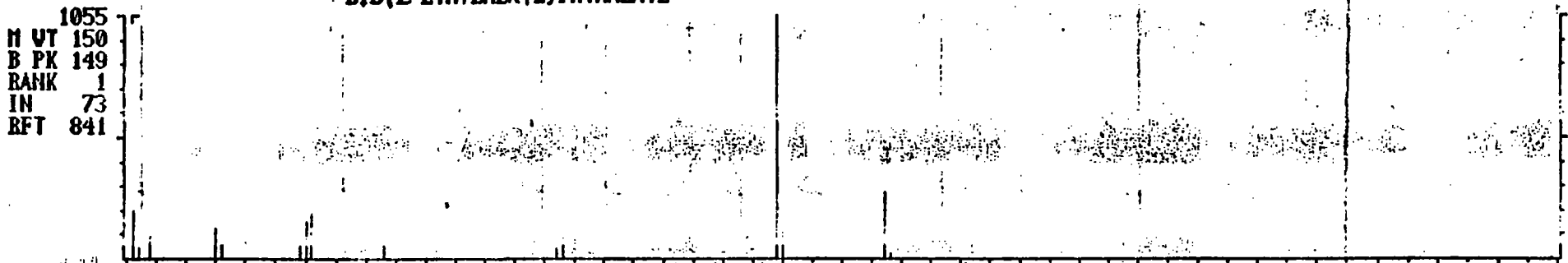
DATA: 2EU12051C05 #1650
CALI: F2CAL # 1

BASE M/E: 149
RIC: 17055.

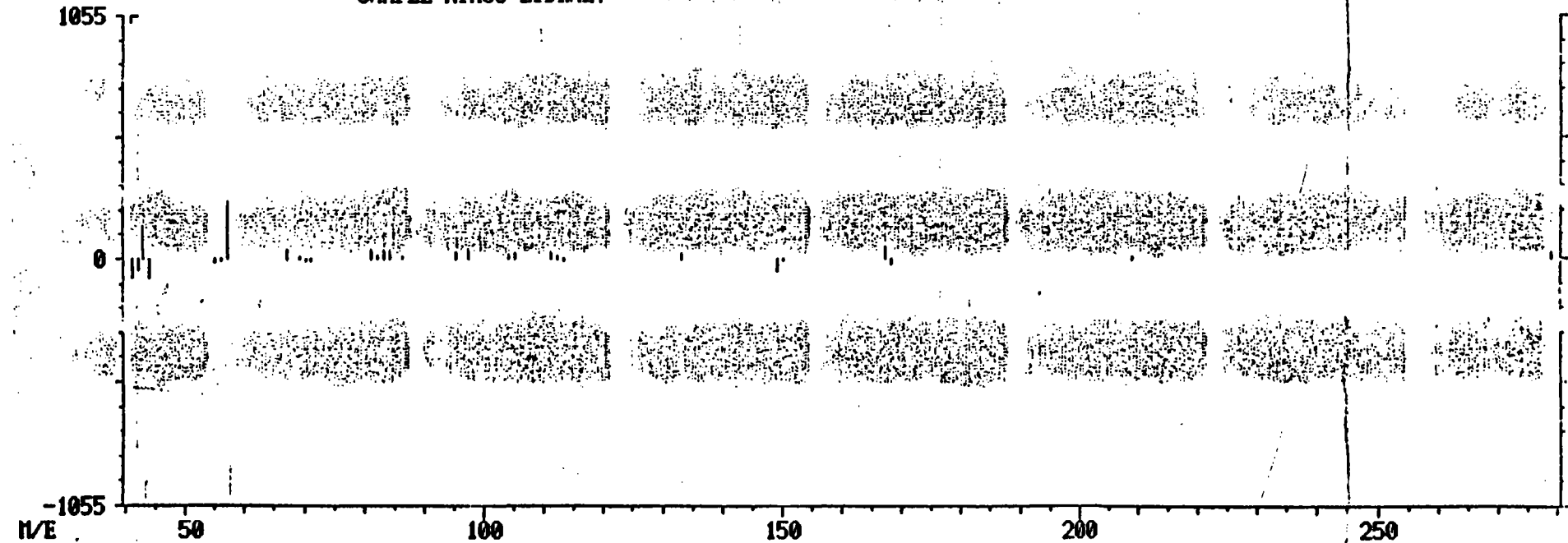
280



BIS(2-ETHYLHEXYL)PHthalate



SAMPLE MINUS LIBRARY



DUAL MASS SPECTRUM
11/09/84 4:38:00 + 27:09
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.NAS
DATA: 2EU12051C05 #1650

DATA: EPSTD #1629
CALI: F2CAL #1

BASE N/E: 149/ 149
RIC: 416255./ 27807.

SECOND SPECTRUM

100.0

0112

50.0

100.0

50.0

N/E

50

100

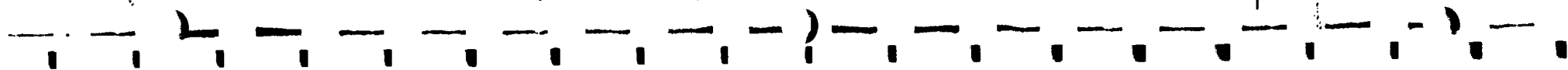
150

200

250

73728

73728



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12051C05.TI

12/21/84 15:04:00

SAMPLE: AB164 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

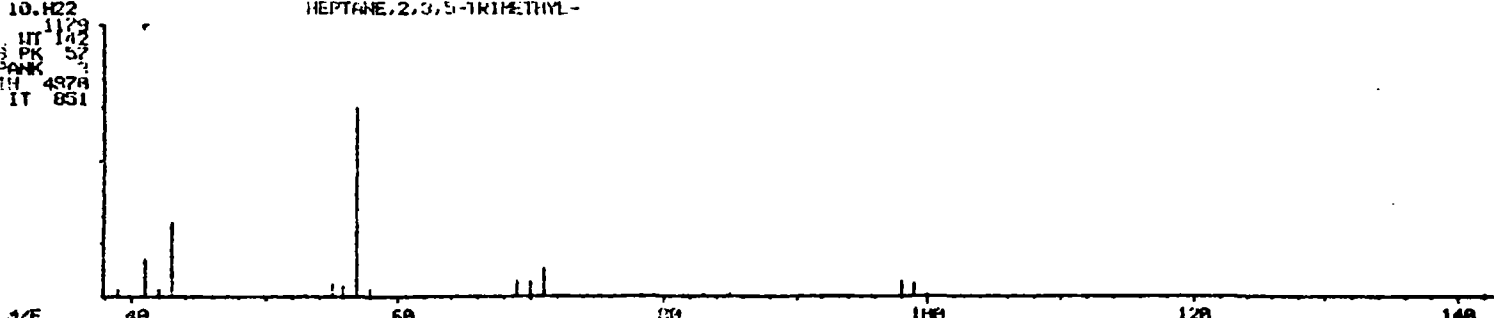
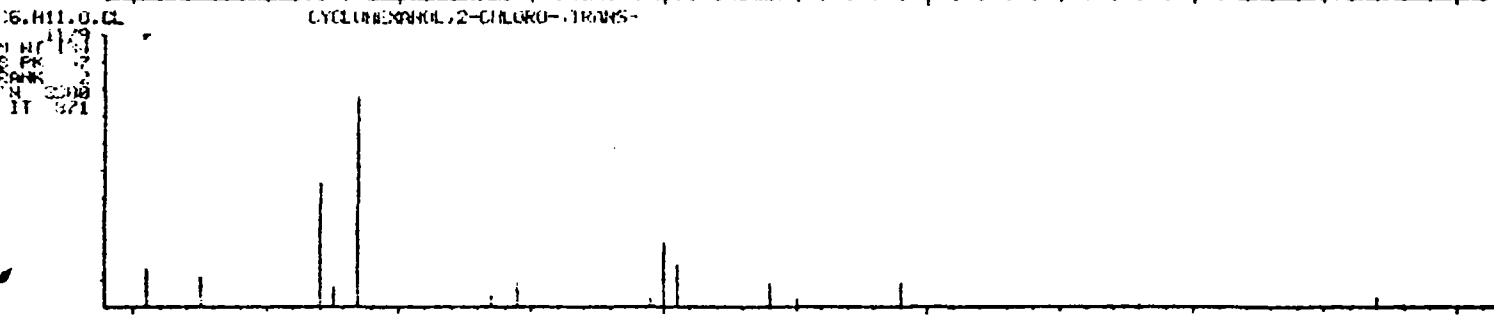
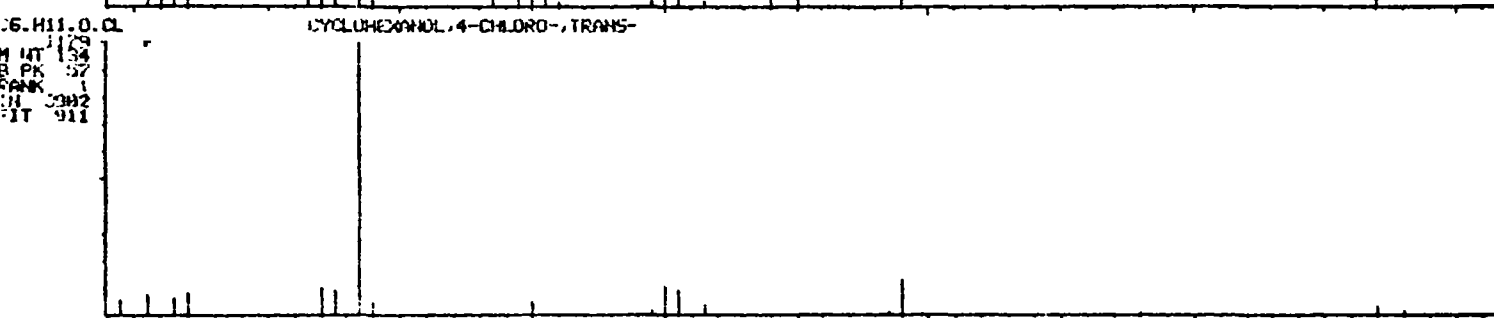
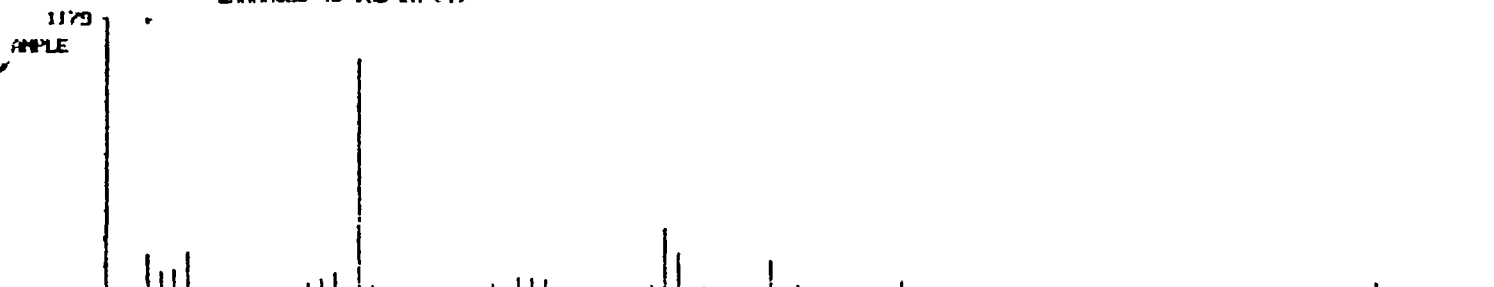
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO NAME
 1 D4-1,4-DICHLOROBENZENE (IS)
 2 DB-NAPHTHALENE (IS)
 3 D10-ACENAPHTHENE (IS)
 4 D10-PHENANTHRENE (IS)
 5 D12-CHRYSENE (IS)
 6 D-12 BENZO(A)PYRENE (IS)
 7 CYCLOHEXANOL,4-CHLORO-,TRANS-
 8 1,2-CYCLOHEXANEDIOL
 9 6-OCTEN-1-OL,3,7-DIMETHYL-,PROPANOATE
 10 BENZENE,(1-METHOXY-1-METHYLETHYL)-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	507	8:27	1	1.000	A BB	58345.	40.000	UG/ML	9.07
2	136	691	11:31	2	1.000	A?BB	196577.	40.000	UG/ML	9.07
3	164	968	16:08	3	1.000	A BB	119951.	40.000	UG/ML	9.07
4	188	1203	20:03	4	1.000	A BB	187108.	40.000	UG/ML	9.07
5	240	1637	27:17	5	1.000	A BB	161865.	40.000	UG/ML	9.07
6	264	1973	32:53	6	1.000	A BB	142260.	40.000	UG/ML	9.07
7	TOT	523	8:43	1	1.032	A BU	55146.	113.431	UG/L	25.71
8	TOT	555	9:15	1	1.095	A BB	22755.	46.805	UG/L	10.61
9	TOT	1848	30:48	5	1.129	A UU	30005.	22.247	UG/L	5.04
10	TOT	2026	33:46	6	1.027	A BB	22215.	18.741	UG/L	4.25

LIBRARY SEARCH
12/21/84 15:04:00 + 8:43
SAMPLE: 08164 1:1.17/10/84
ENHANCED (S 158 2H 01)

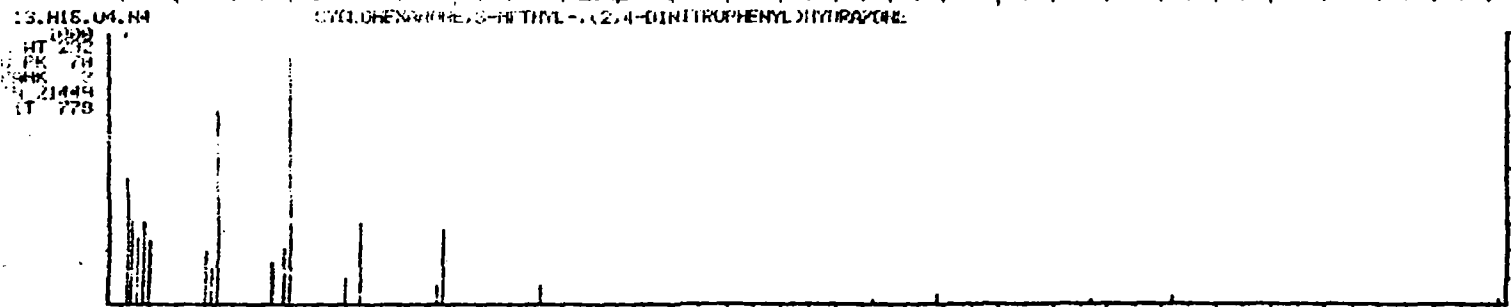
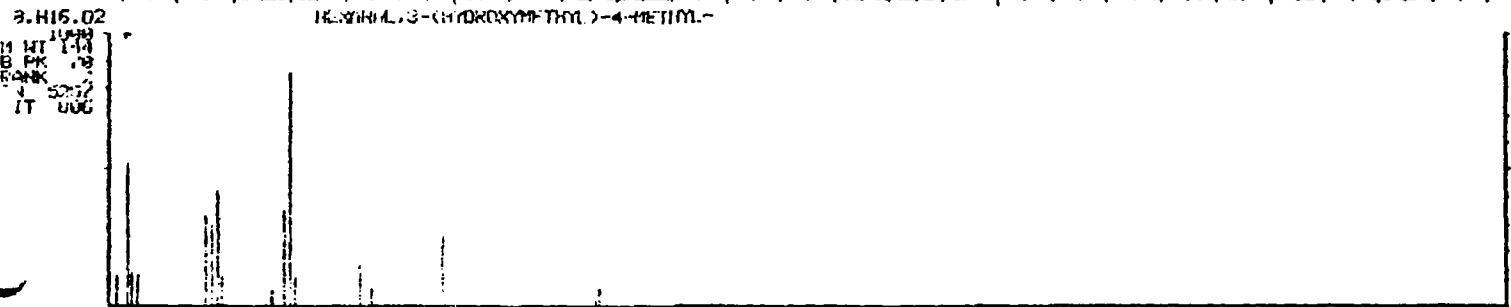
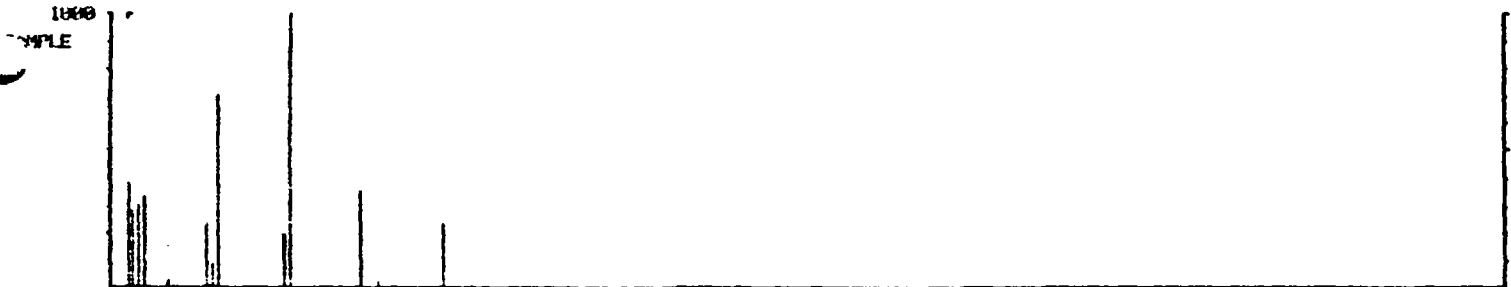
DATA: 20U12051005 # 523 BNSF M/F: 57
CAL: FZCAL # 1 RIC: 21551.



m/z 40 60 80 100 120 140

LIBRARY SEARCH
12/21/84 15:04:08 + 9:15
SAMPLE: A8164 1:1,12/18/84
ENHANCED (S 15B 2N BT)

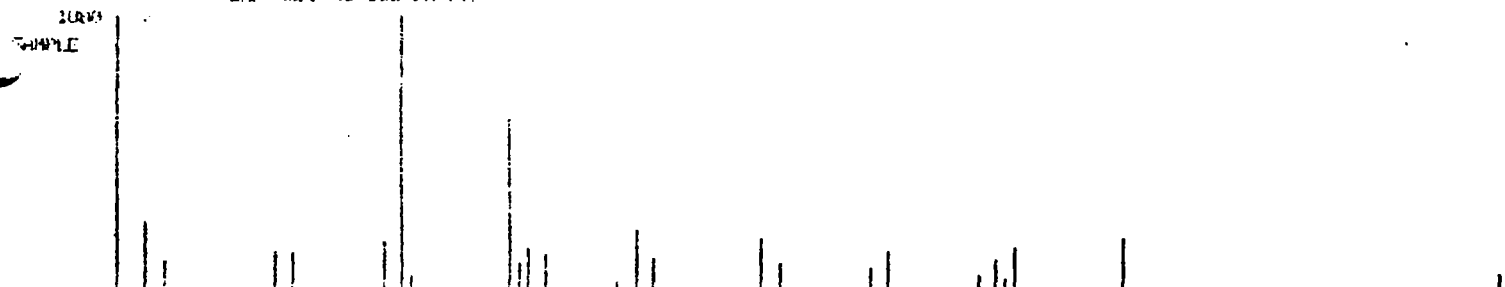
DATA: 2EU12051C05 # 535 DASF M/E: 70
CAL1: F2CAL # 1 RIC: 8303.



4/E 50 100 150 200 250

LIBRARY SEARCH
12/21/81 15:04:00 + 09:48
SAMPLE: 08104 11/17/10/81
ENHANCED (S 15B 2N RT)

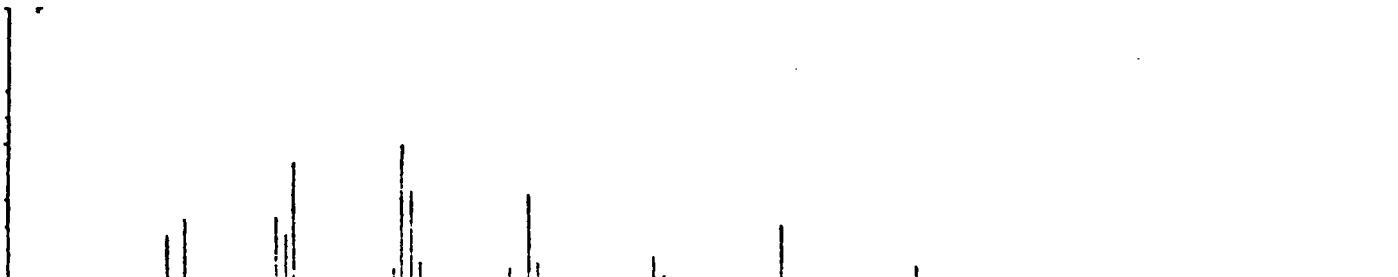
DATA: 2EU12851C85 #1848
CALL: FZCAL # 1
BASE M/E: 63
NIC: 6951.



013.H24.02

6-OCTEN-1-OL(3,7-DIETHYL)-PROPANOATE

M WT 198
B PK 11
RANK 1
IN 1426
IT 794



011.H28

1,4-UNDECADIENE(2Z)-

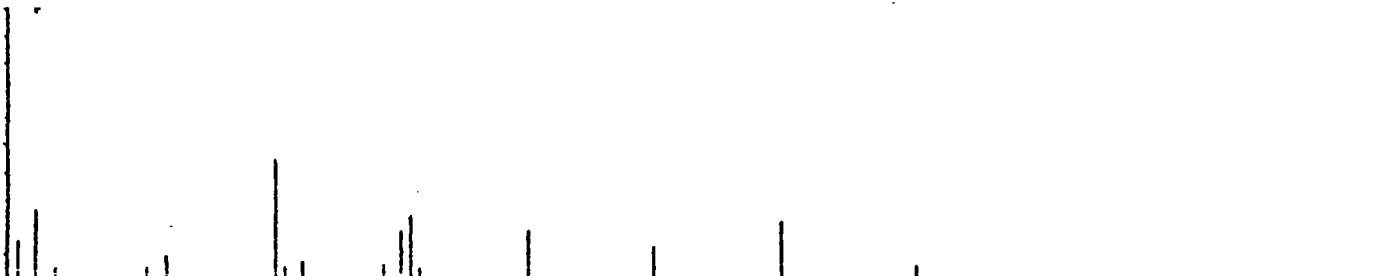
M WT 198
B PK 10
RANK 2
IN 677
IT 778



010.H18

PROPANE,2-(2-ISOPROPYLIDENE-3-METHYLCYCLOPROPYL)-,CIS-

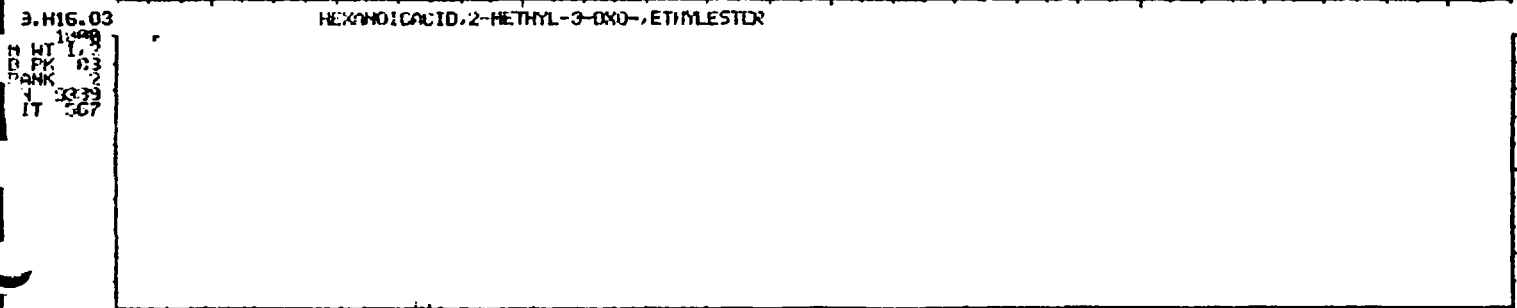
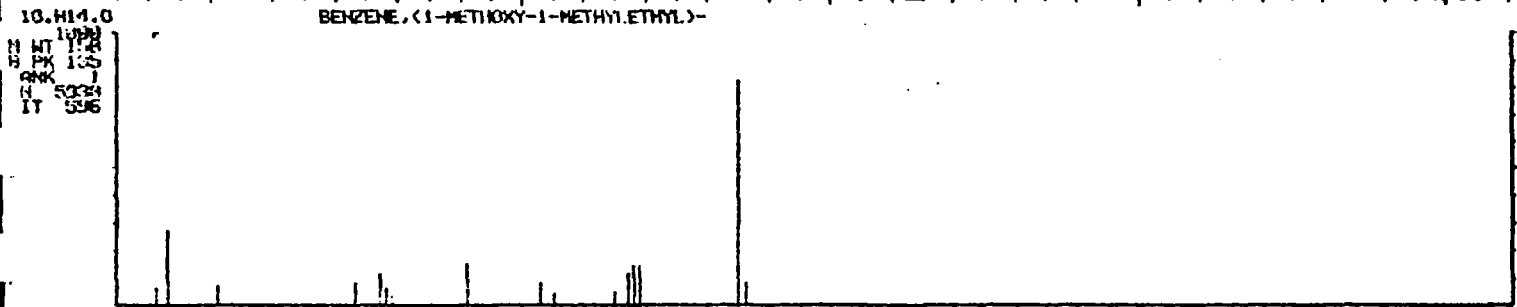
M WT 138
B PK 67
RANK 3
IN 4349
IT 774



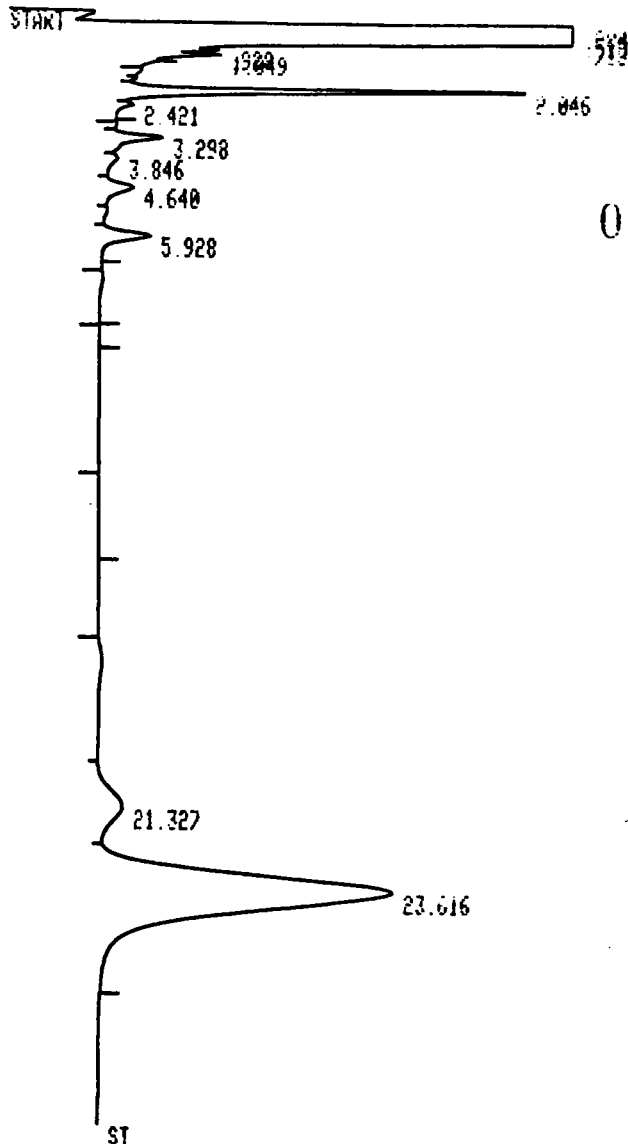
M/E 48 64 80 96 112 128 144 160 176 192

LIBRARY SEARCH
12-21-81 15:04:08 + 30:47
SAMPLE: 18164 1:1.12/18/34
ENHANCED (S 158 2H 8T)

DATA: 2EJ12851C05 #2827 BASE M/E: 137
COL: F2CAL # 1 RIC: 6543.



M/E 50 100 150 200 250



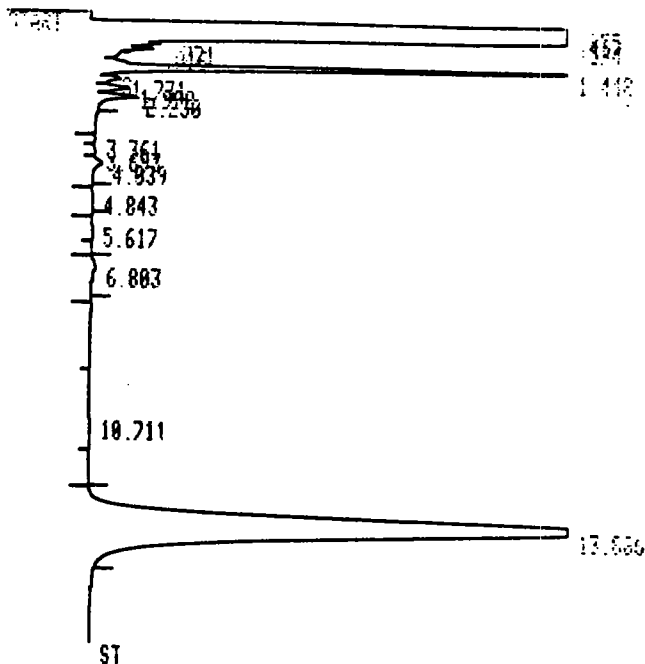
0118

CASE NUMBER 3633
 SAMPLE ID AB164
 VOLUME INJECTED 2ul
 COLUMN MP

3633
 RUN # 156 FEB/11/85 22:36:03
 WORKFILE ID: C 5-2-50211-21 *2ul*
 WORKFILE NAME: 8412051-C5A *il*
 ID: 5-1-2-84
Rm MP2 Rest.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.284	1652680	DSBH	0.093	62.601
0.518	246691	DTRB	0.065	9.344
0.713	629931	DSHR	0.080	23.861
0.928	2111	DTRP	0.056	0.080
1.049	4627	DTPB	0.028	0.175
2.046	48131	PV	0.127	1.823
2.421	1385	D YB	0.095	0.053
3.298	5965	VV	0.217	0.226
3.846	951	VP	0.239	0.036
4.640	3260	PV	0.296	0.124
5.928	5790	PR	0.278	0.219
21.327	3000	PV	0.989	0.114
23.616	35520	VB	1.137	1.345

TOTAL HGHT= 2640000
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB164
 VOLUME INJECTED 2ul
 COLUMN SP

2633

RUN # 392 FEB/17/85 22:09:00
 ID 1-1-1-85 1-1-50217-14 2ul
 8412051-05A
 12m SP Ret.

RT	HEIGHT	TYPE	AR/HI	HEIGHT
0.253	2204672	SBH	0.120	32.530
0.417	1503737	SHH	0.146	22.225
0.594	1922377	DSHB	0.096	28.415
0.771	8976	DTBP	0.064	0.133
0.916	20568	DTPB	0.071	0.364
1.442	491347	DTBB	0.102	7.262
1.731	11759	BP	0.110	0.174
1.998	23499	PV	0.116	0.347
2.230	32303	VB	0.127	0.477
3.361	1190	BP	0.135	0.018
3.693	1846	PV	0.190	0.027
4.839	8950	VB	0.220	0.132
4.843	978	BB	0.201	0.015
5.617	1255	BP	0.304	0.019
6.883	4940	BB	0.342	0.075
10.711	621	PP	1.063	0.009
13.806	526915	PB	0.580	7.788

TOTAL HGHT= 6765900
 MUL FACTOR= 1.0000E+00

Sample Number
AB166

Organics Analysis Data Sheet
(Page 1)

0120

Laboratory Name: Radian
Lab Sample ID No: 4EUL2056V01
Sample Matrix: Water
Data Release Authorized By: S. Petkovich

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: 12-8-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: _____
Date Analyzed: 12-14-84
Conc/Dil Factor: 1:1 pH _____
Percent Moisture: 100%
Percent Moisture (Decanted): _____

acc per 5/10/84

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u RJ
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	2000 UJ 5u
67-64-1	Acetone	430 UJ 10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u ✓
67-66-3	Chloroform	25 UJ 5u
107-06-2	1, 2-Dichloroethane	5u J
78-93-3	2-Butanone	50 UJ 10u
71-55-6	1, 1, 1-Trichloroethane	25 UJ 5u
56-23-5	Carbon Tetrachloride	5u J
108-05-4	Vinyl Acetate	10u J
75-27-4	Bromodichloromethane	5u J

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	15
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	20 ✓

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U. Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10U.
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number
AB166

Organics Analysis Data Sheet
(Page 2)

0121

Semivolatile Compounds

all per 5/10/85

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 12-21-84
Conc/Dil Factor: 1000:1

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Napthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u R
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzofluoranthene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzofluoranthene	10u
207-08-9	Benzofluoranthene	10u
50-32-8	Benzofluoranthene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzofluoranthene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB166

Organics Analysis Data Sheet
 (Page 3)

0122

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000ml : 5ml

*all for G
 5/10/85*

CAS Number (ug/l or ug/Kg
 (Circle One))

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 uL V_i 2 uL

 SAMPLE NUMBER:
 AB166

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (<u>UG/L</u>) OR UG/KG
1 29538-77-6	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	523	229
2 931-17-9	1,2-CYCLOHEXANEDIOL	ABN	554	106
3 39168-98-4	1-HEXANAMINE, 2-ETHYL-N-(2-ETHYLHEXYL)	ABN	1817	4
4 13377-56-0	1H-PYRAZOLO[4,3-D]PYRIMIDIN-7-AMINE	ABN	1905	21
5 272-16-2	1,2-BENZISOTHIAZOLE	ABN	2026	26
6 1115-11-3	2-BUTENAL, 2-METHYL-	ABN	2263	3

No compounds Detected ✓

all for
5/10/86

12/14/84 13:27:09

CALI: F4CAL 01

SAMPLE: F4.D.EPA.AB166.C9.V.1:1.MAS

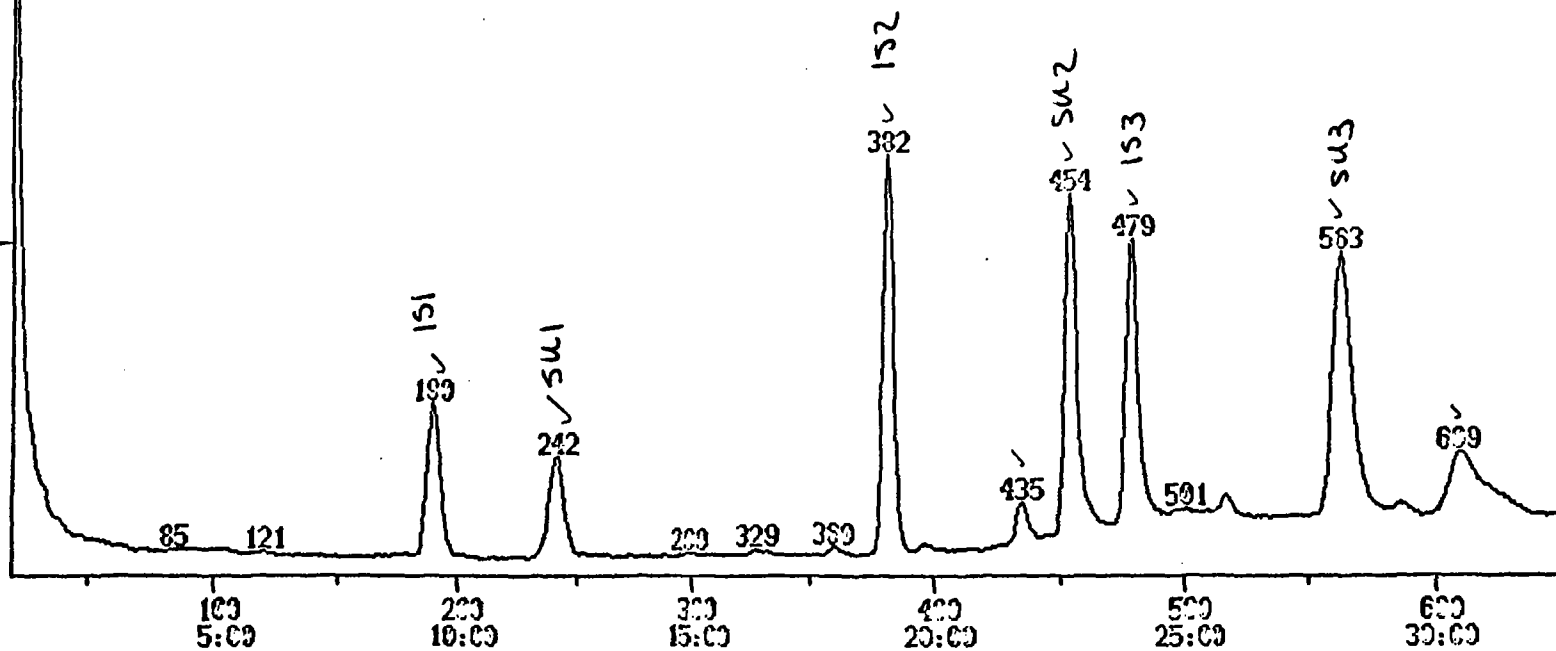
RANGE: G 1.650 LABEL: N 0.4.0 QUANT: A 0.1.0 BASE: U 20. 3

720096.

100.0
0124

IS1 Bromochloromethane
IS2 1,2-Difluorobenzene
IS3 D5-Chlorobenzene
SU1 D4-1,2-Dichloroethane
SU2 D8-Toluene
SU3 P-Bromofluorobenzene

RIC



SCAN
TIME

DATA: 4EU12056V01.TI

12/14/84 13:27:00

SAMPLE: F4,D,EPA,AB166,00,V,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

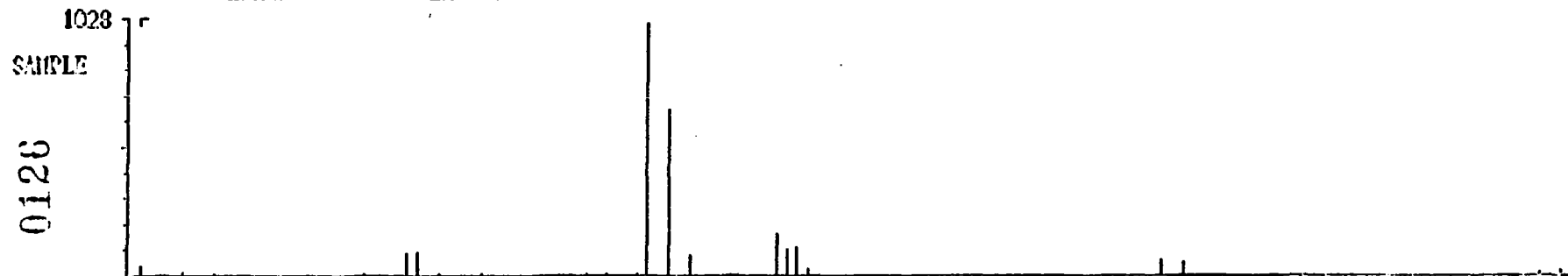
NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROENZENE-D5
5	(SU2) SURROGATE TOLUENE-DB
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	1,1,2,2-TETRACHLOROETHANE
8	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	190	9:30	1	1.000	A 00	73916.	50.000 UG/L	10.98
2	67	242	12:55	1	1.274	A 03	87591.	96.460 %	21.19
3	114	382	19:05	3	1.000	A 00	456185.	50.000 UG/L	10.93
4	117	478	23:54	4	1.000	A 03	309549.	50.000 UG/L	10.93
5	99	454	22:42	4	0.950	A 00	422705.	65.233 %	18.94
6	95	563	28:09	4	1.178	QEDT	353491.	84.986 %	18.67
7	83	435	21:45	4	0.910	A 03	70566.	17.562 UG/L	3.86
8	105	609	30:27	4	1.274	A 03	55327.	20.070 UG/L	4.41

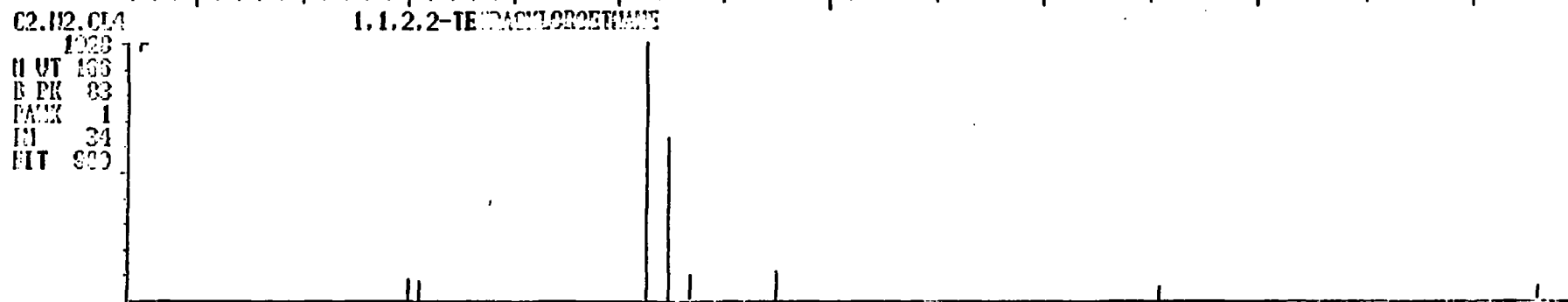
LIBRARY SEARCH
12/14/81 13:27:00 + 21:45
SAMPLE: F4.D.EPA.AB155.CO.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CAL: F4CAL 0 1

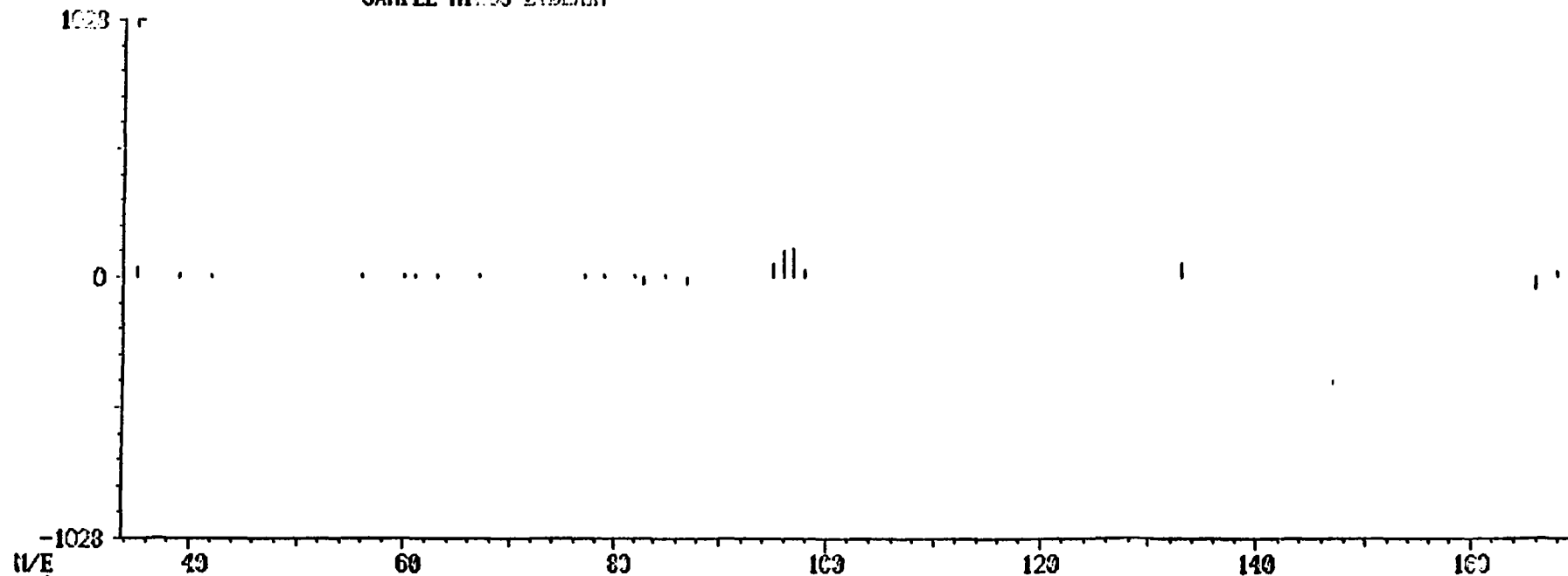
RIC: 21923.



1.1.2.2-TETRACHLOROETHANE



SAMPLE MINUS LIBRARY





10/15/84 6:32:09 + 29:18
SAMPLE: F4.D.VEB.C91C9.C9.V.NA.NAS
DATA: 4EU12856V01 0435

CALI: F4CAL 01

BIC: 381439.7 39971.

SECOND SPECTRUM
109.0

0127

50.0

109.0

m/e

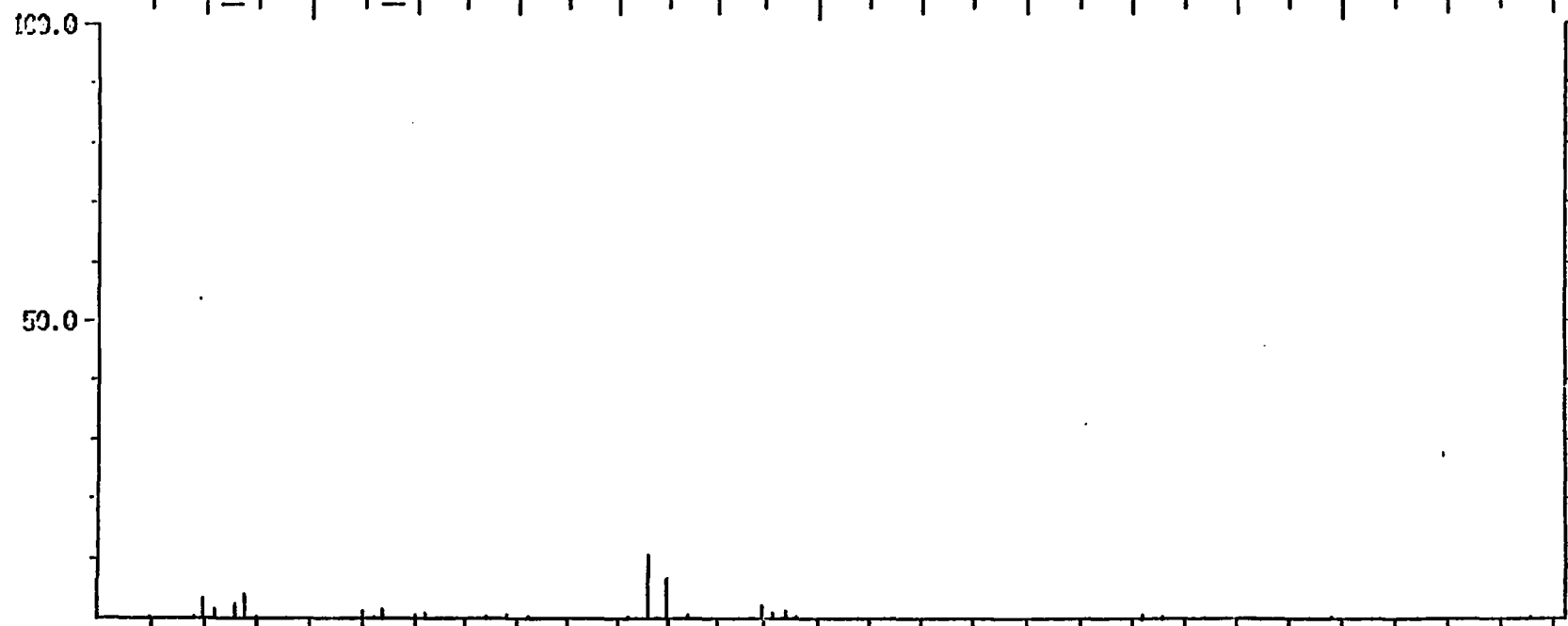
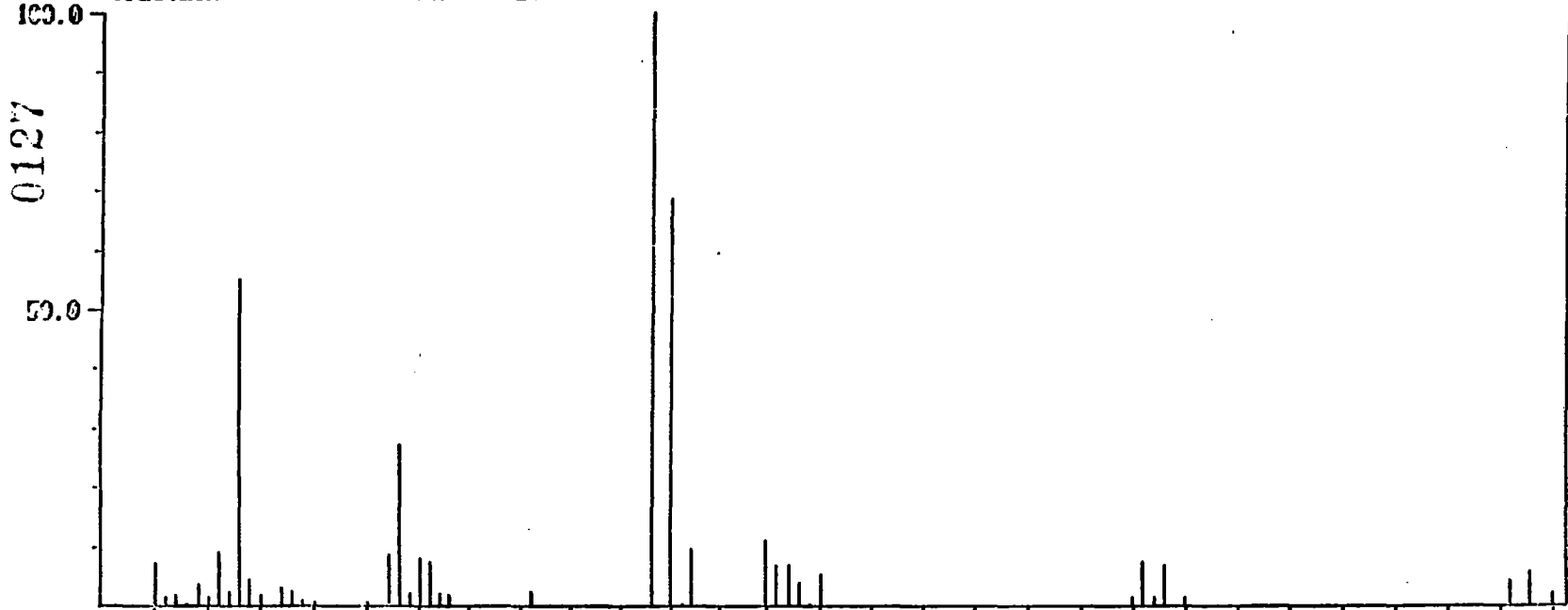
50

100

150

95104.

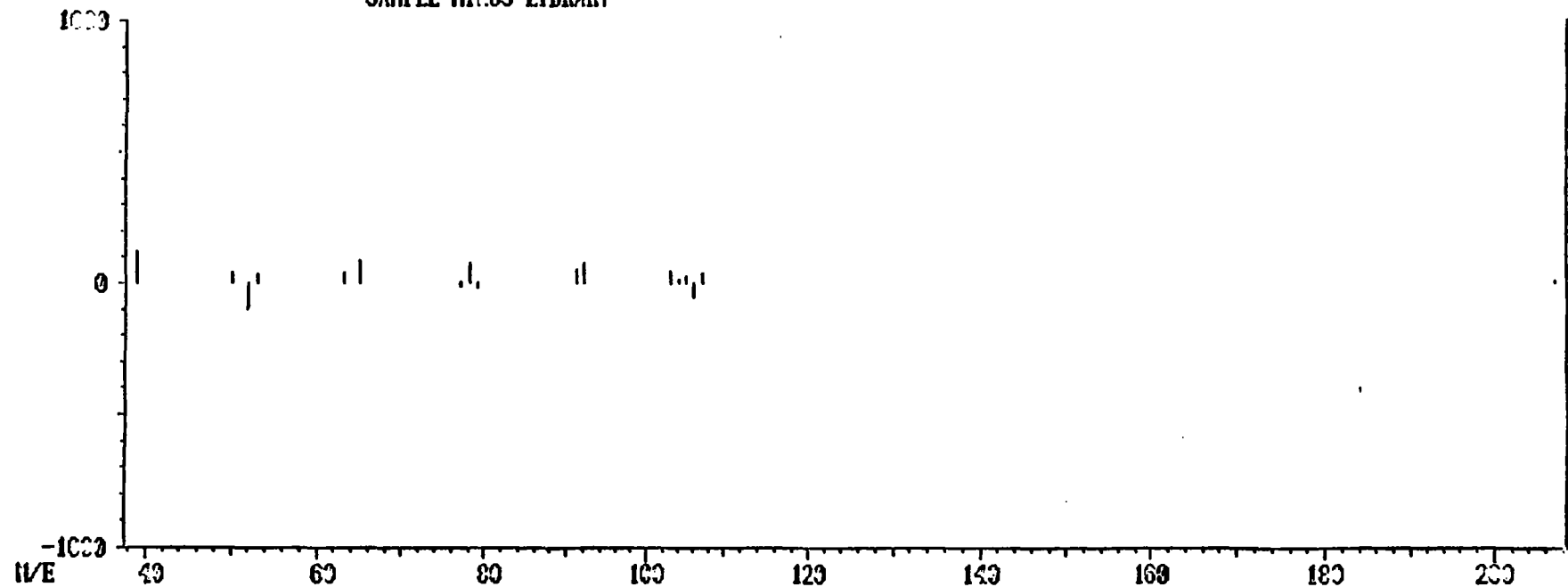
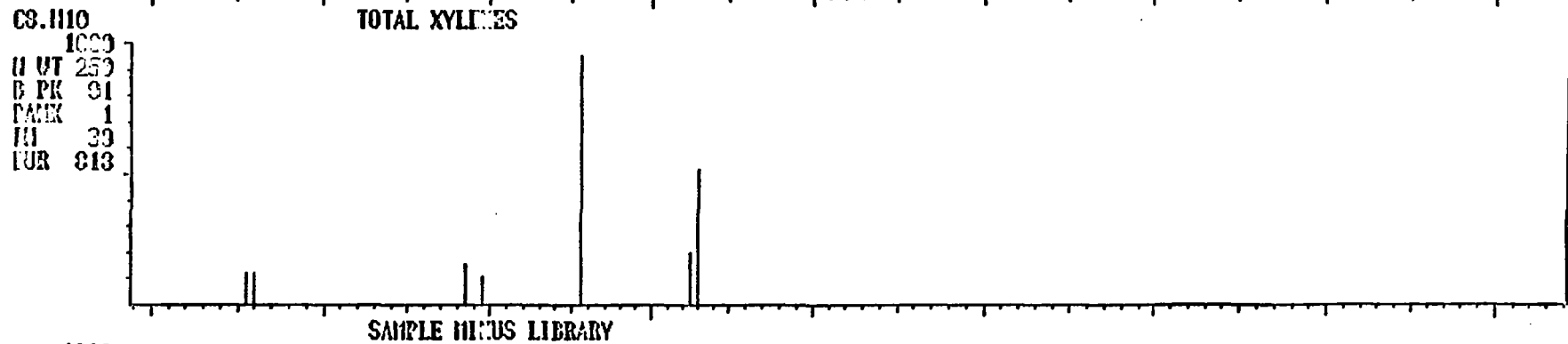
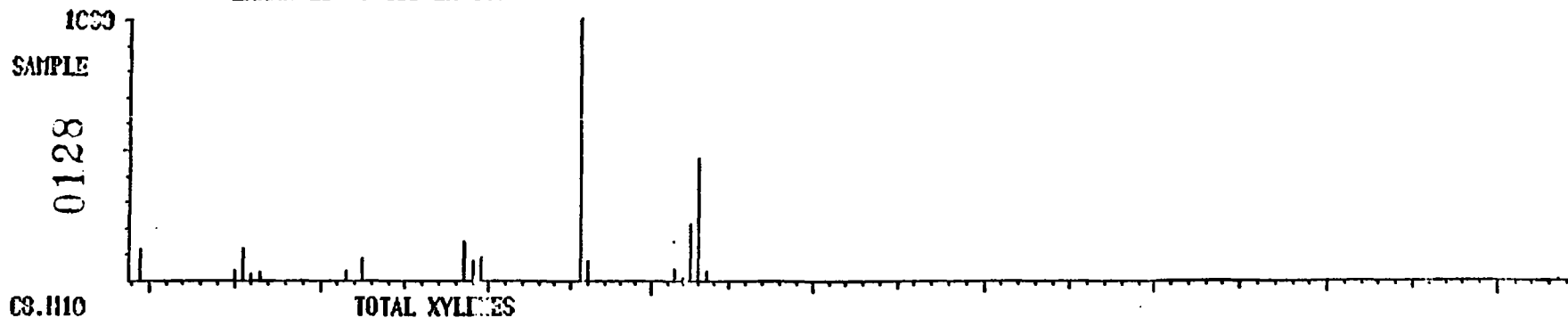
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12/14/84 13:27:09 + 39:27
SAMPLE: F4.D.EPA.AB106.C3.V.1:1.RAS
ENHANCED (S 15B 2H 07)

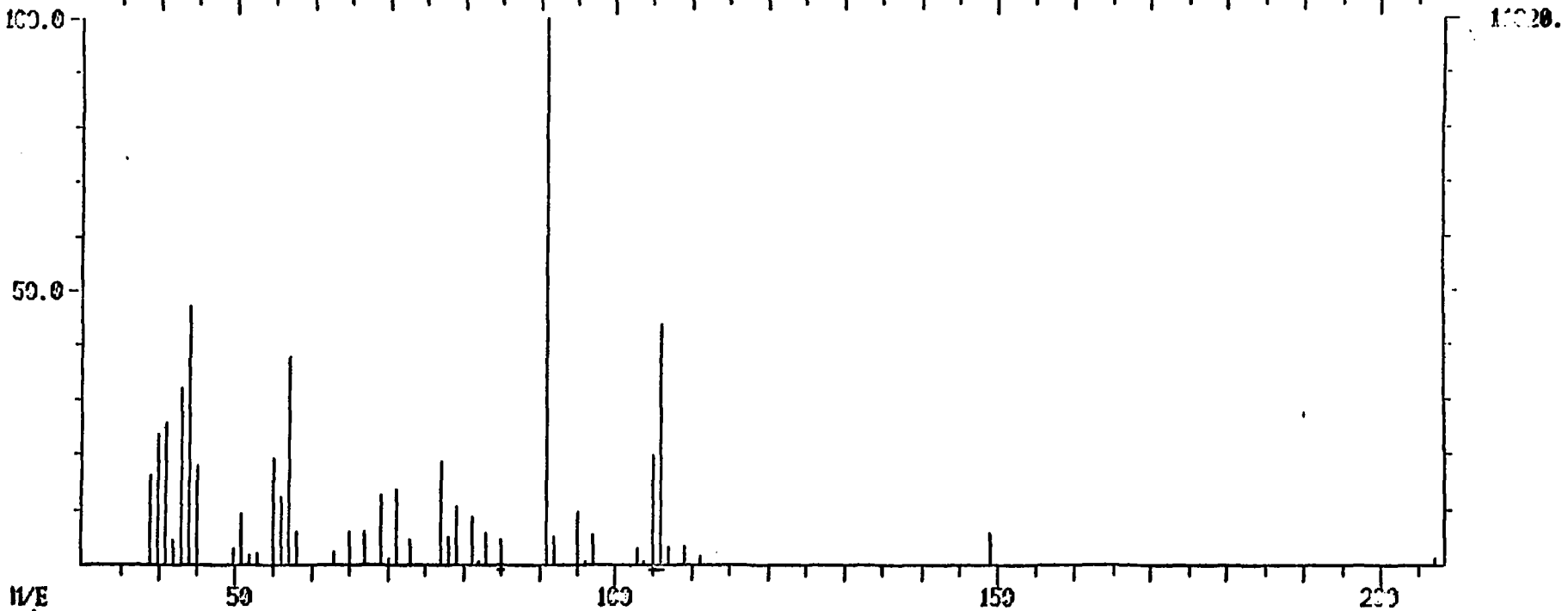
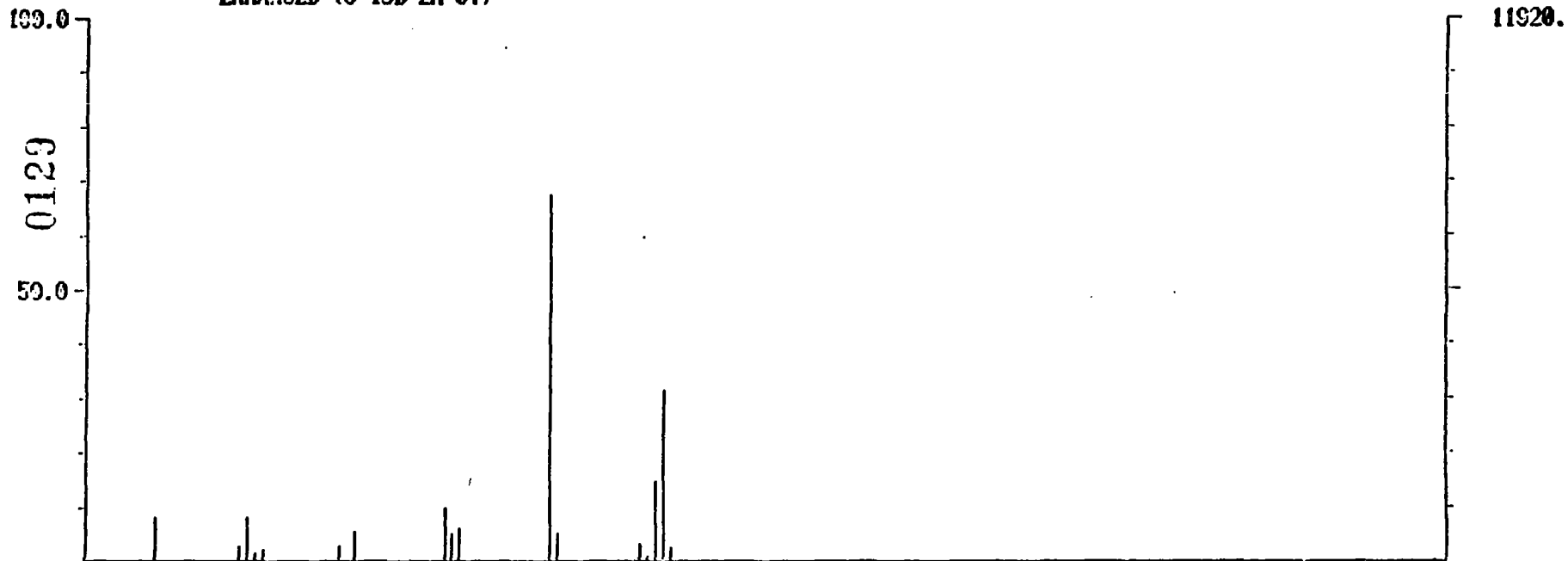
CAL: F4CAL 8 1

RIC: 21055.



DUAL MASS SPECTROM
12/14/84 13:27:09 + 39:27
SAMPLE: F4.D.EPA.AB165.C3.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

DATA ACQUISITION 4000
CALI: F4CAL 81 RIC: 21055.7 66243.



m/e

50

100

150

200

RADIAN DC * FC43-0 0130

ANALYST:LK

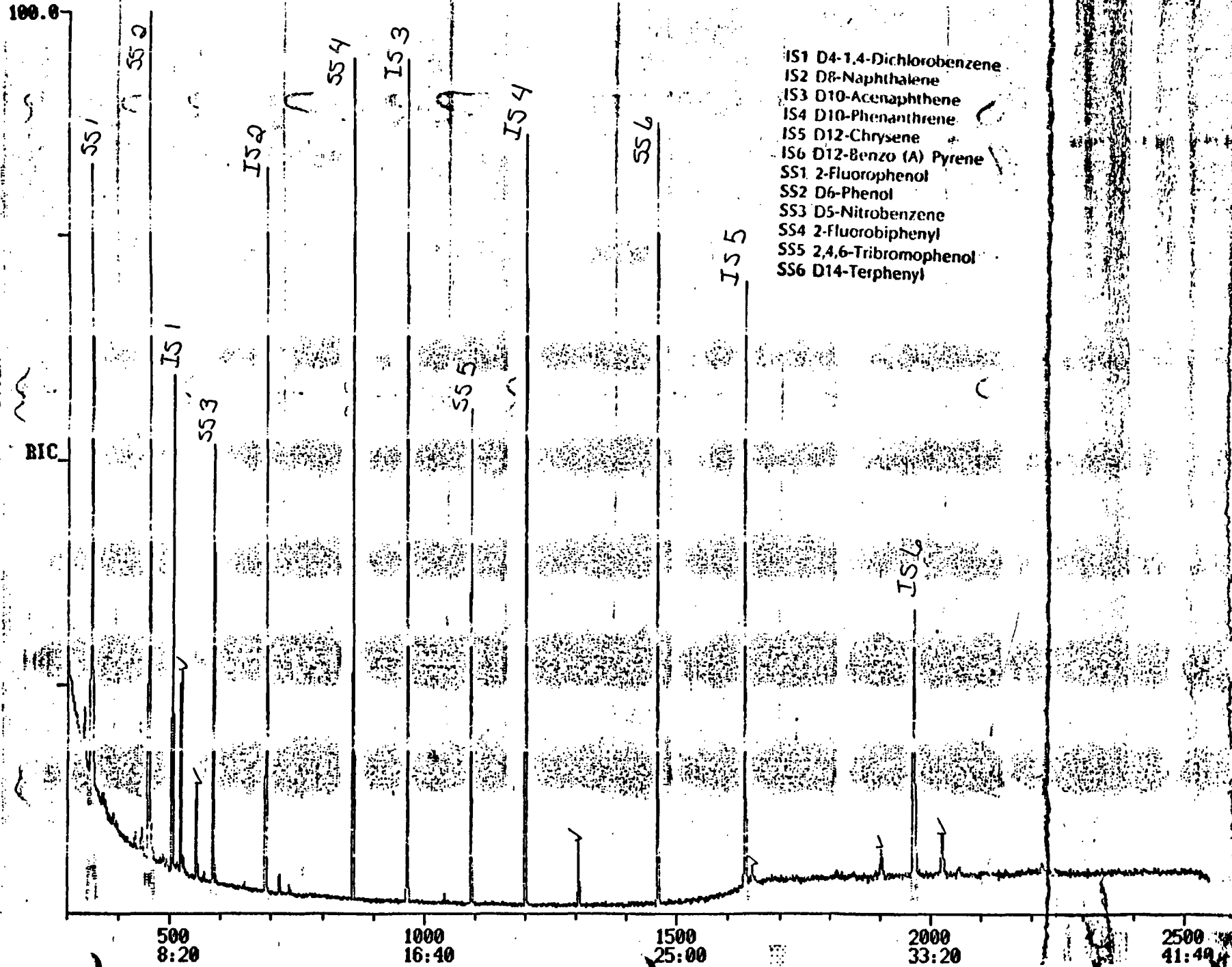
BIC

RIC
12/21/84 18:20:00
SAMPLE: AB166
RANGE: G 1.2550

1000ML: 1ML. 12/10/84-SS
LABEL: H 0. 4.0 QUAN: A 0. 1.0 BASE: U 20, 3

DATA: 2EU12056C01 #1
CALI: F2CAL #1

SCANS 300 TO 2550



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500
8:20

1000
16:40

1500
25:00

2000
33:20

2500
41:40

SC
T

DATA: 2EU12056C01.T1
 12/21/84 18:20:00
 SAMPLE: AB166 100ML:1ML,1/10/84-S\$
 SUBMITTED BY: EPA ANALYST: WAA

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

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 DI-N-BUTYLPHTHALATE
- 15 BIS(2-ETHYLHEXYL)PHTHALAT

NO	M/E	SCAN	TIME	REF	R/T	METH	AREA(HGHT)	AMOUNT	XTOT
1	152	506	8:26	1	1.000	A BB	43202.	40.000 UG/ML	3.39
2	136	690	11:30	2	1.000	A BB	163488.	40.000 UG/ML	3.39
3	164	967	16:07	3	1.000	A BB	87187.	40.000 UG/ML	3.39
4	188	1202	20:02	4	1.000	A BB	131886.	40.000 UG/ML	3.39
5	240	1635	27:15	5	1.000	A BB	117461.	40.000 UG/ML	3.39
6	264	1970	32:50	6	1.000	A BB	99792.	40.000 UG/ML	3.39
7	112	348	5:48	1	0.638	A7BV	116988.	257.122 X	21.79
8	99	460	7:40	1	0.909	A BB	167049.	235.832 X	19.98
9	82	586	9:45	2	0.849	A BB	61581.	66.446 X	5.63
10	172	861	14:21	3	0.890	A BB	123911.	113.473 X	9.62
11	330	1093	18:13	3	1.130	A BB	32061.	143.559 X	12.16
12	244	1463	24:23	5	0.895	A BB	155106.	112.322 X	9.52
13	94	462	7:42	1	0.913	A BB	5541.	4.397 UG/ML	0.36
14	149	1306	21:45	4	1.007	A BB	20027.	5.811 UG/ML	0.49
15	149	1649	27:29	5	1.009	A BB	3235.	1.233 UG/ML	0.10

LIBRARY SEARCH
12/21/84 18:29:00 + 21:46
SAMPLE: AB166 1000HL: INT. 12/10/84-SS
ENHANCED (S 15B 2M QT)

DATA: 2EU12056001 #1306
CALI: F2CAL # 1

BASE N/E: 149
RIC: 9711.

0132

SAMPLE

1000

1000
H VT 150
B PK 149
IN 77
RFT 882

21 N OCTE DIMILALYL
Butyl

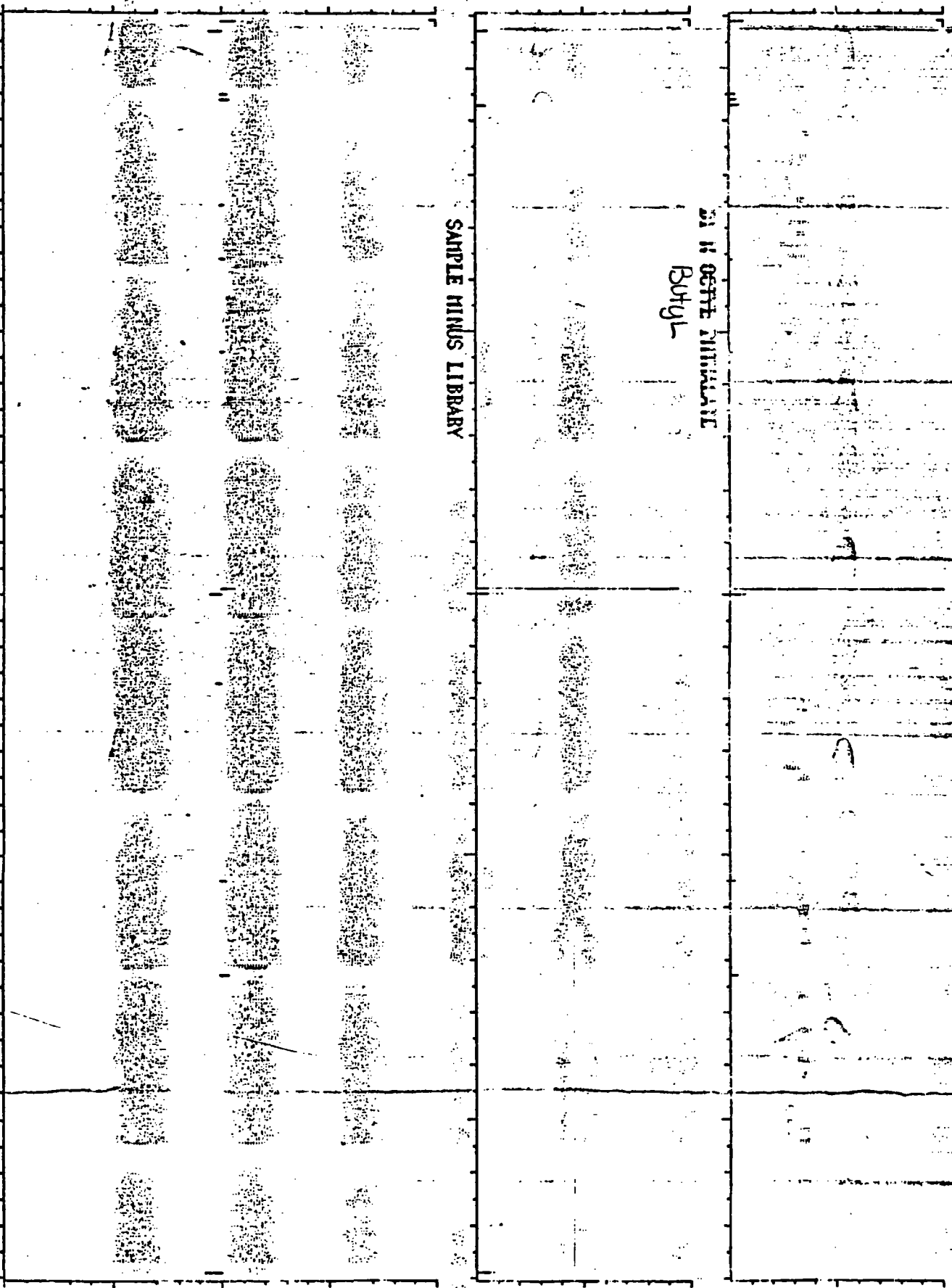
SAMPLE MINUS LIBRARY

1000

0

1000
N/E

50 100 150 200 250



SECOND SPECTRUM
100.0

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.NAS
DATA: 2E012056C01 #1306

DATA: EPSTD #1745
CALL: F2CAL #1

BASE N/E: 149/ 149
RIC: 257279./ 14223.

0133

50.0

100.0

50.0

N/E

50

100

150

200

250

78976.

78976.

LIBRARY SEARCH
12/21/84 18:20:00 + 27:29
SAMPLE: AB166 1000HL: IHL 12/10/84-SS
ENHANCED (S 15B 2M 0T)

DATA: 2EU12056001 #1649
CALL: F2CAL # 1
BASE N/E: 149
RIC: 2447.

0134

SAMPLE

1000

1000
M UT 150
B PK 149
RANK 1
IN 73
RFT 831

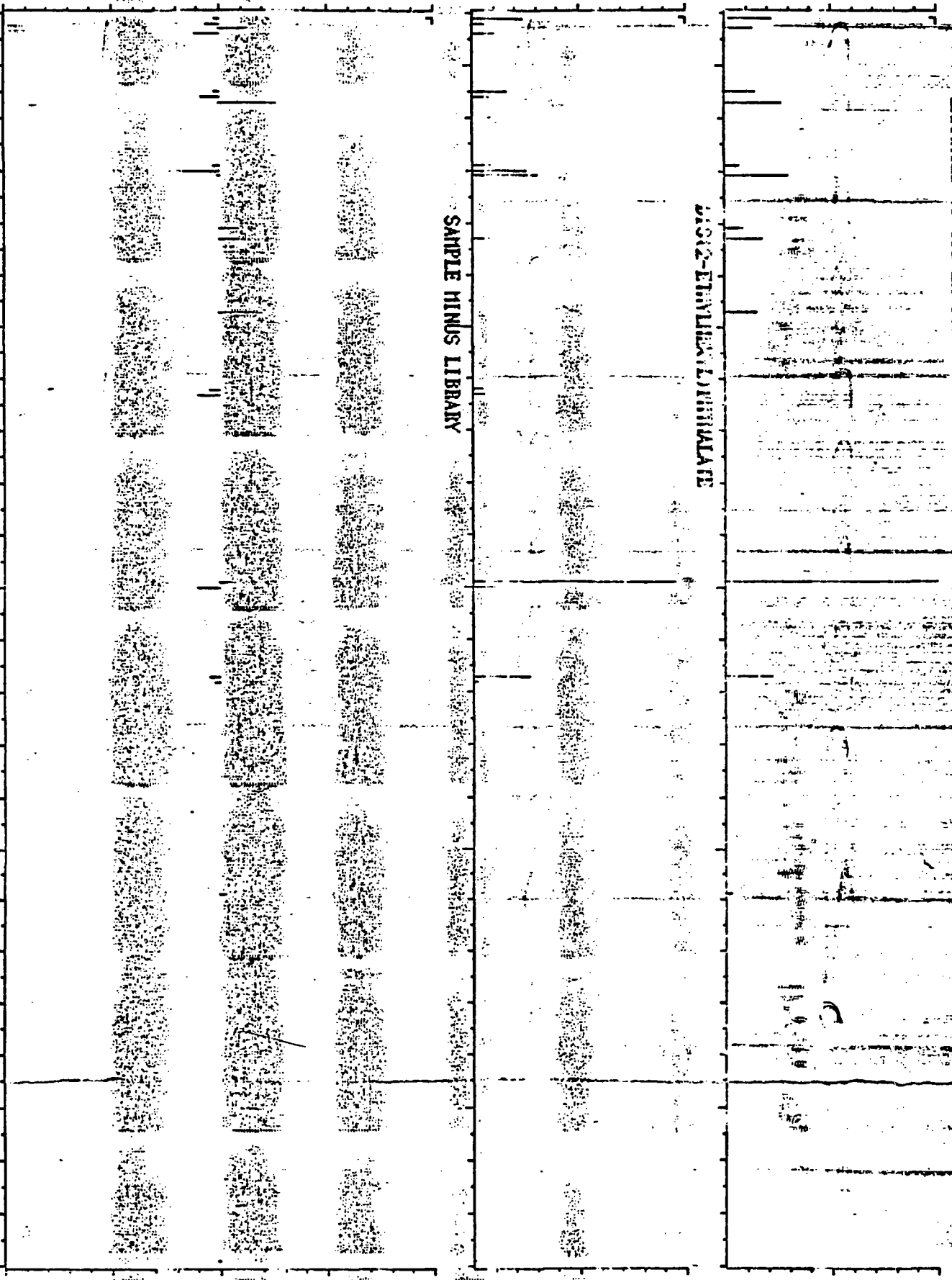
2502-ETHYLENE DIURETHALATE

SAMPLE HINUS LIBRARY

1000

-1000
N/E

50 100 150 200 250



SECOND SPECTRUM
100.0

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 27:09
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.NAS
DATA: 2E012055C01 #1649

DATA: ERSTD #1629
CALL: F2CAL #1

BASE N/E: 149/ 207
RIC: 416255./ 9007.

0135

50.0

100.0

50.0

N/E

50

100

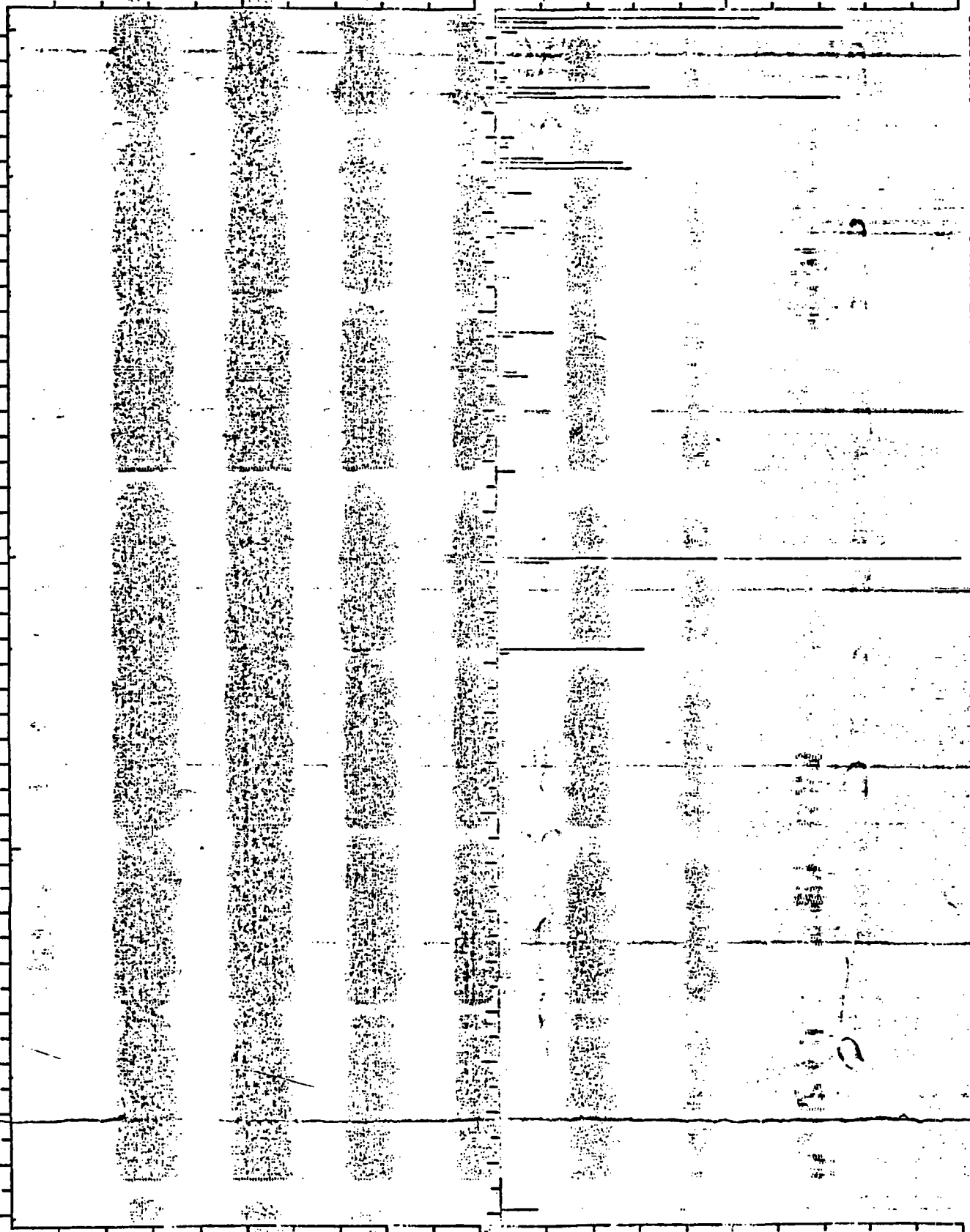
150

200

250

73728.

73728.



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12056C01.TI

12/21/84 18:20:00

SAMPLE: AB166 1000ML:1ML,12/10/84-S5

SUBMITTED BY: EPA ANALYST: WAA

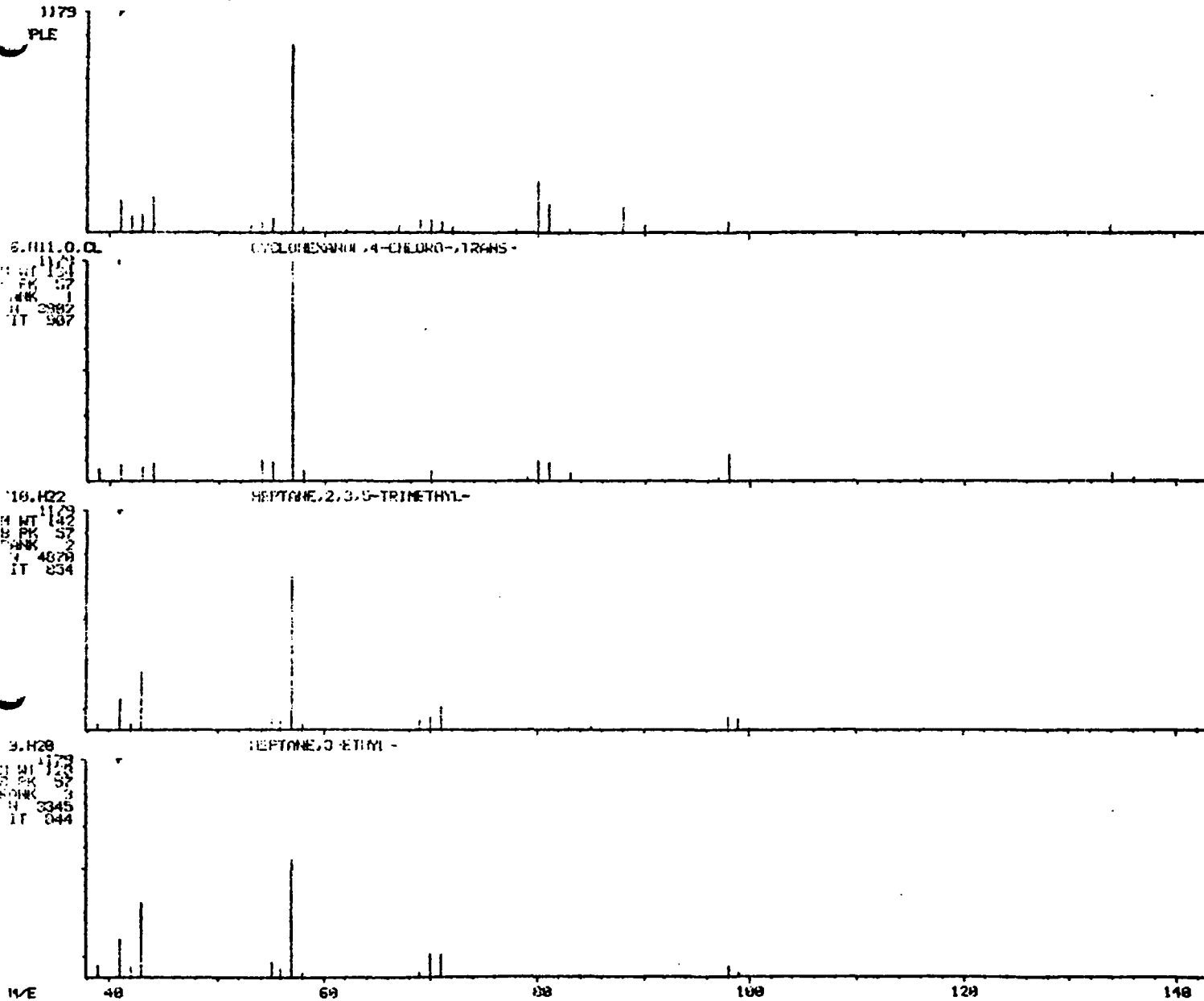
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	D4-1,4-DICHLOROBENZENE (IS)
2	D8-NAPHTHALENE (IS)
3	D10-ACENAPHTHENE (IS)
4	D10-PHENANTHRENE (IS)
5	D12-CHRYSENE (IS)
6	D-12 BENZO(A)PYRENE (IS)
7	CYCLOHEXANOL, 4-CHLORO-, TRANS-
8	1,2-CYCLOHEXANEDIOL
9	1-HEXANAMINE, 2-ETHYL-N-(2-ETHYLHEXYL)-N-METHYL-
10	1H-PYRAZOLE[4,3-D]PYRIMIDIN-7-AMINE
11	1,2-BENZISOTHIAZOLE
12	2-BUTENAL, 2-METHYL-

NO	M/E	SCAN	TIME	RET	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	506	8:26	1	1.000	A BB	43202.	40.000 UG/ML	6.36
2	136	690	11:30	2	1.000	A BB	163488.	40.000 UG/ML	6.36
3	164	967	16:07	3	1.000	A BB	87187.	40.000 UG/ML	6.36
4	188	1202	20:02	4	1.000	A BB	131886.	40.000 UG/ML	6.36
5	240	1635	27:15	5	1.000	A BB	117461.	40.000 UG/ML	6.36
6	264	1970	32:50	6	1.000	A BB	99792.	40.000 UG/ML	6.36
7	TOT	523	8:43	1	1.034	A VB	82534.	229.272 UG/L	36.44
8	TOT	554	9:14	1	1.095	A BB	38336.	106.495 UG/L	16.92
9	TOT	1817	30:17	5	1.111	A BV	3887.	3.972 UG/L	0.63
10	TOT	1905	31:45	6	0.967	A VB	17490.	21.034 UG/L	3.34
11	TOT	2026	33:46	6	1.028	A BV	21479.	25.831 UG/L	4.11
12	TOT	2263	37:43	6	1.149	A VB	2180.	2.622 UG/L	0.42

LIBRARY SEARCH
12/21/94 18:20:00 + 8:43
SAMPLE: AB106 100ML:JML,12/10/84-55
ENHANCED (S 158 2N BT)

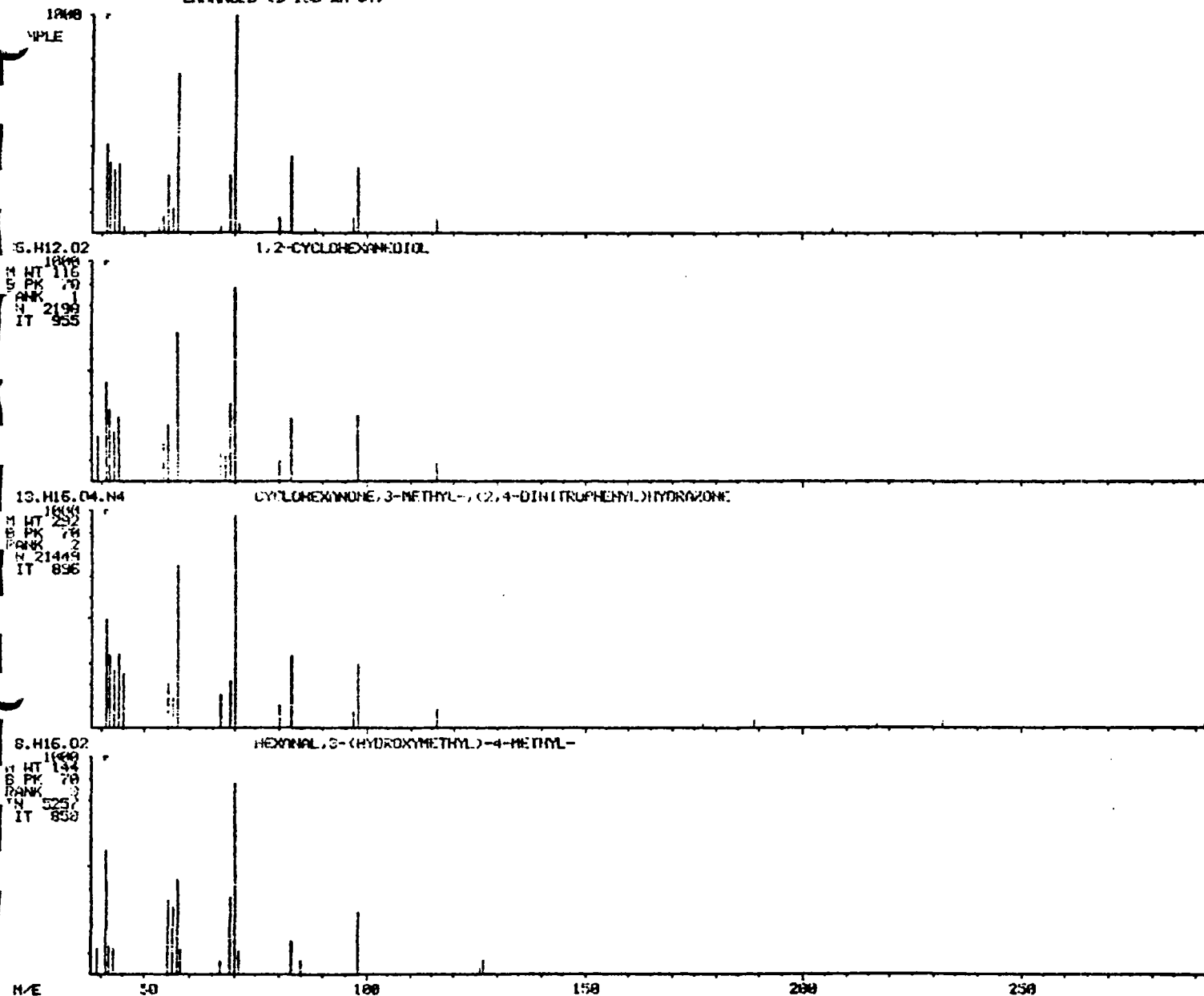
DATA: ZEVI2055C01 # 523 PAGE M/E: 57
CAL: F2CAL # 1 RIC: 33007.



M/E 40 60 80 100 120 140

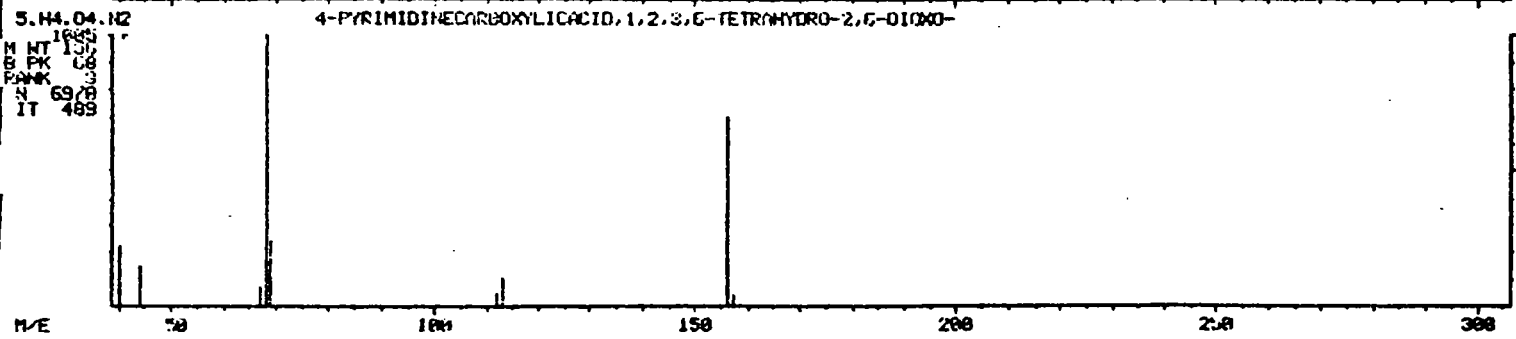
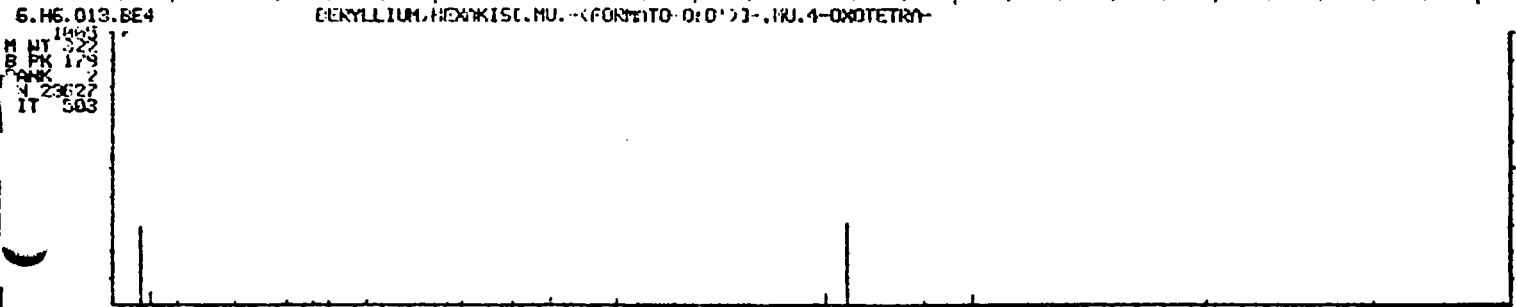
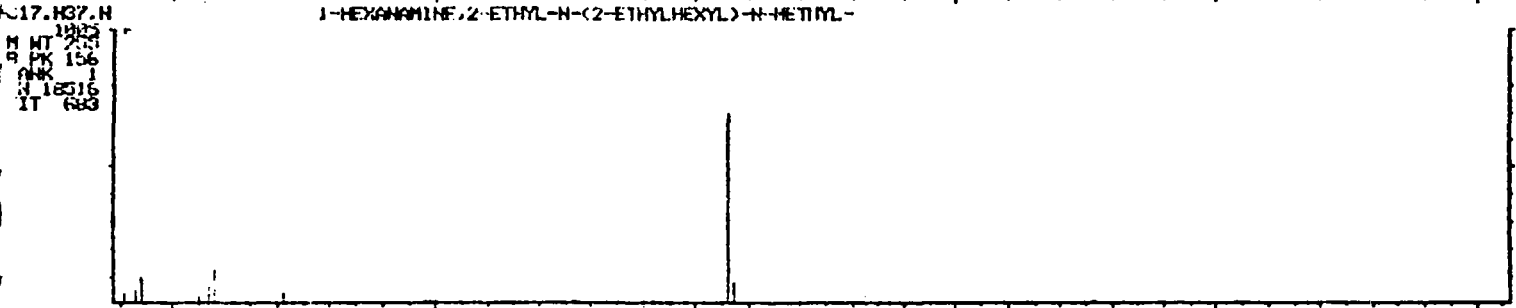
LIBRARY SEARCH
 12/21/84 18:00:00 + 9:14
 SAMPLE: AB166 1800ML:1ML,12/18/84-55
 ENHANCED (S 1:8 2H 01)

DATA: 21J12056081 # 554 BASE M/E: 78
 CALL: F2CAL # 1 RIC: 14399.



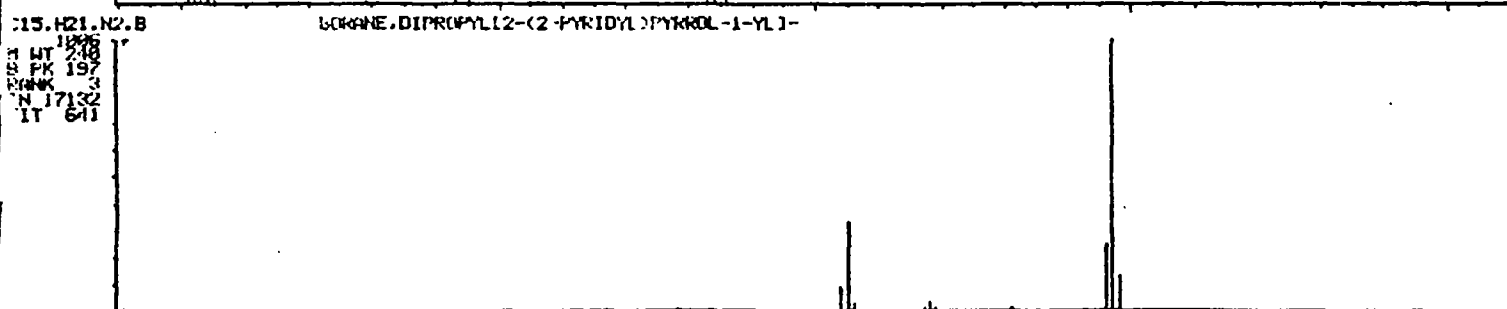
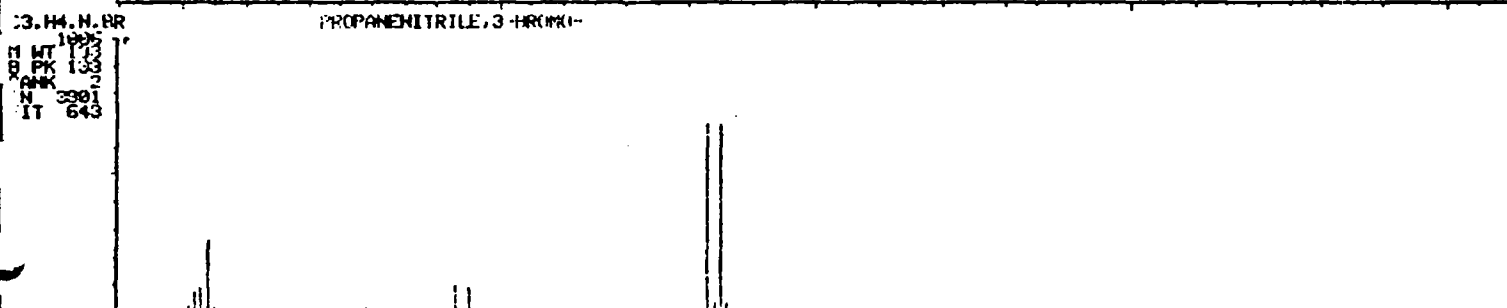
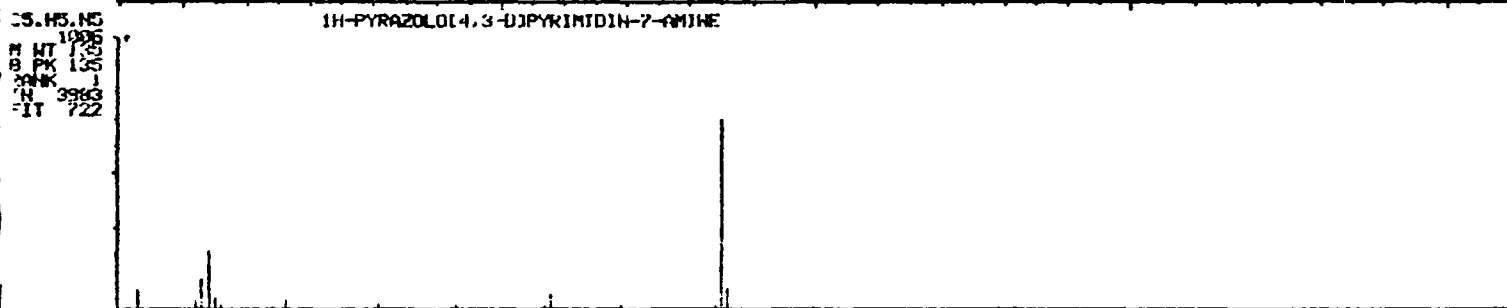
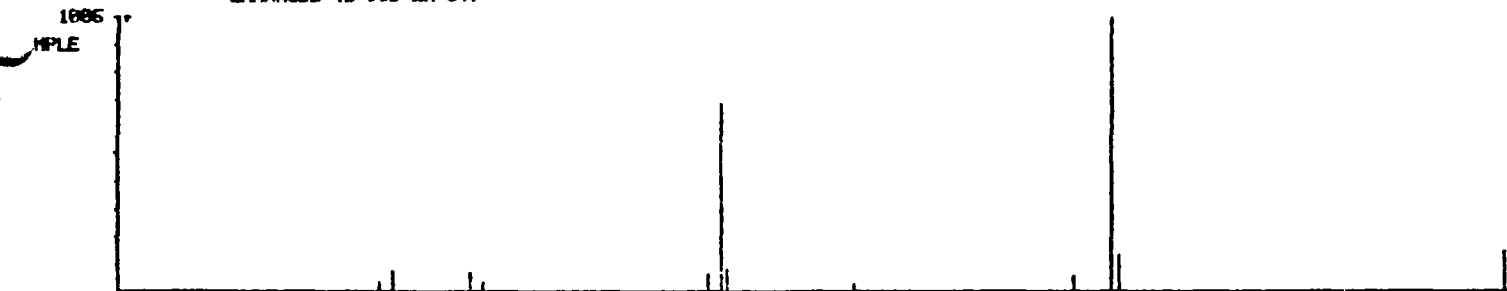
LIBRARY SEARCH
12/21/84 18:21:00 + 38:17
SAMPLE: AB165 1000ML:IML,12/18/84-53
ENHANCED (S 1:0 2N 0T)

DATA: 2FU12856C01 #1817 BASE M/E: 218
CAL: F2CAL # 1 RIC: 1259.



LIBRARY SEARCH
12/21/84 18:28:00 + 31:45
SAMPLE: R216A 1066ML:IN.,12/10/84-55
ENHANCED (S 15B 2N 01)

DATA: ZEU12056C01 #1905
CALI: F2CAL. # 1
BASE M/E: 197
RIC: 4663.



M/E 50 100 150 200 250

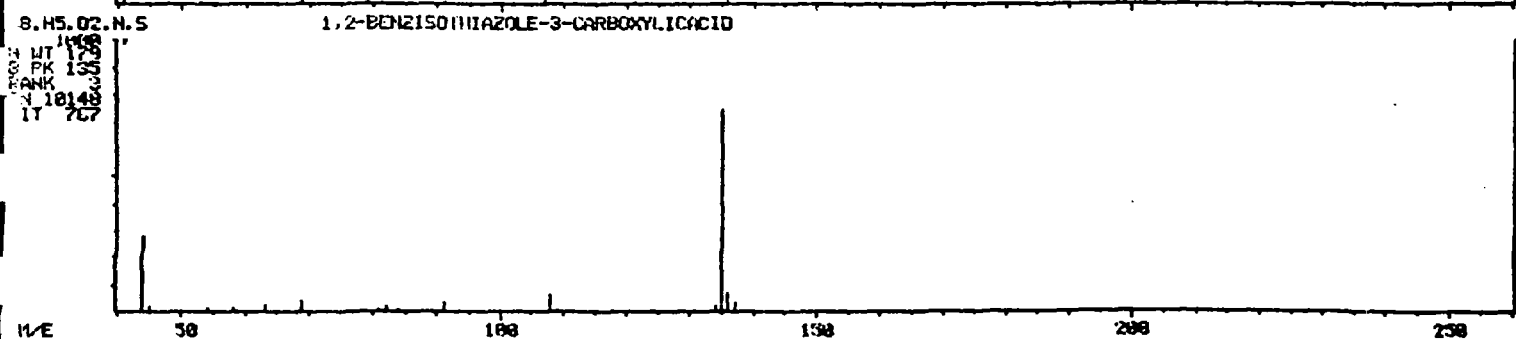
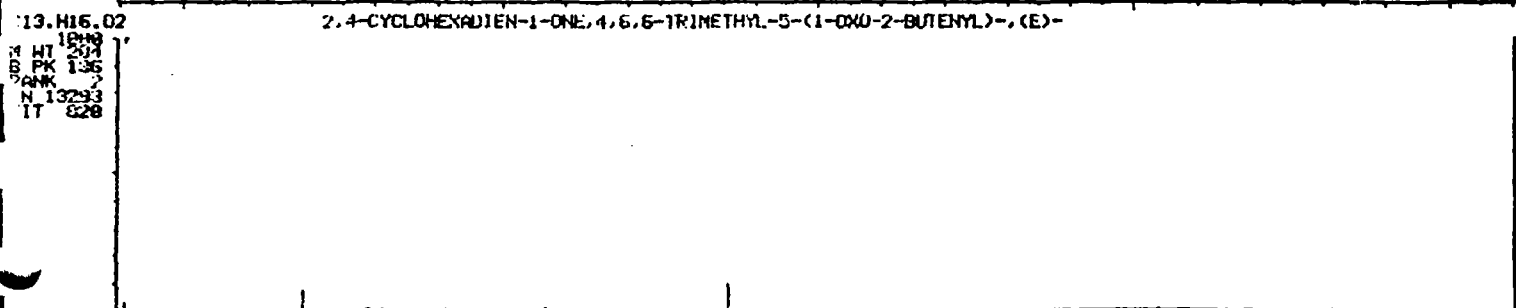
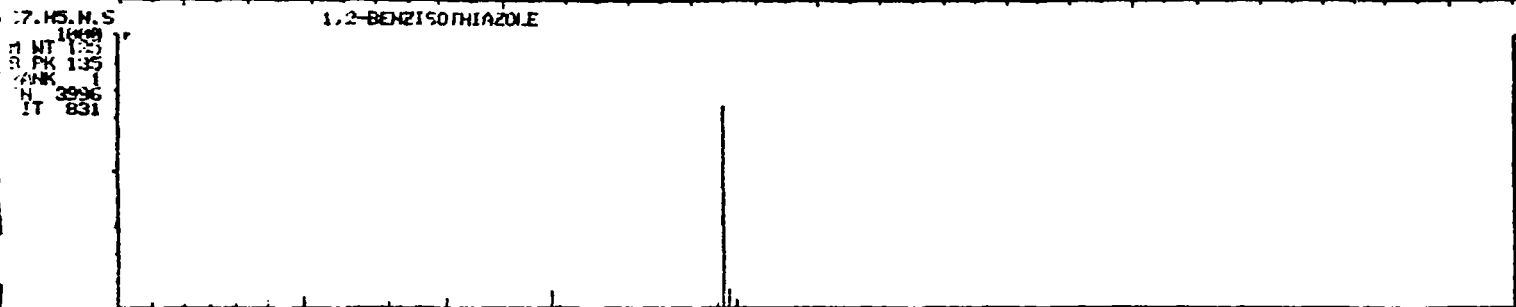
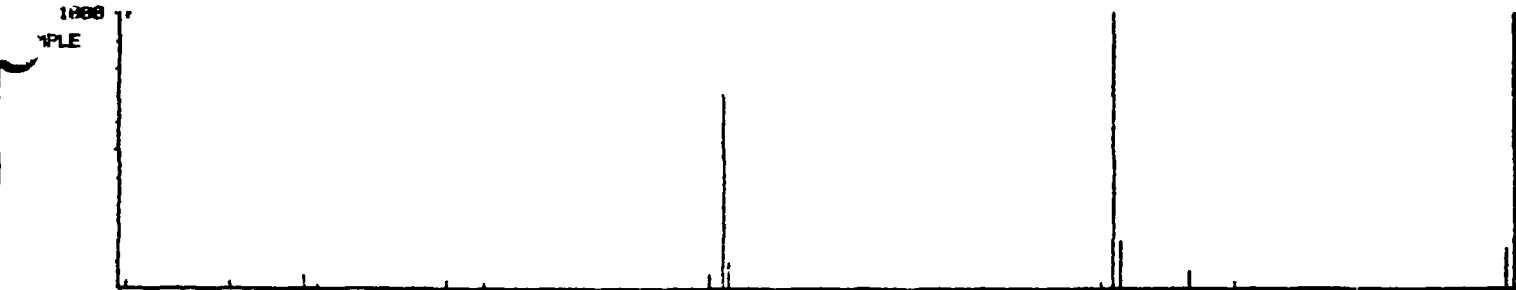
05.H5.NG
M HT 1905
B PK 133
ANK 1
N 3983
IT 722

03.H4.N.RR
M HT 1905
B PK 133
ANK 1
N 3981
IT 643

05.H21.N2.B
M HT 1905
B PK 197
ANK 3
N 17132
IT 611

LIBRARY SEARCH
12/21/84 18:20:00 + 33:46
SAMPLE: AB166 1000ML:1ML, 12/18/84-SS
ENHANCED (5 158 2H 8T)

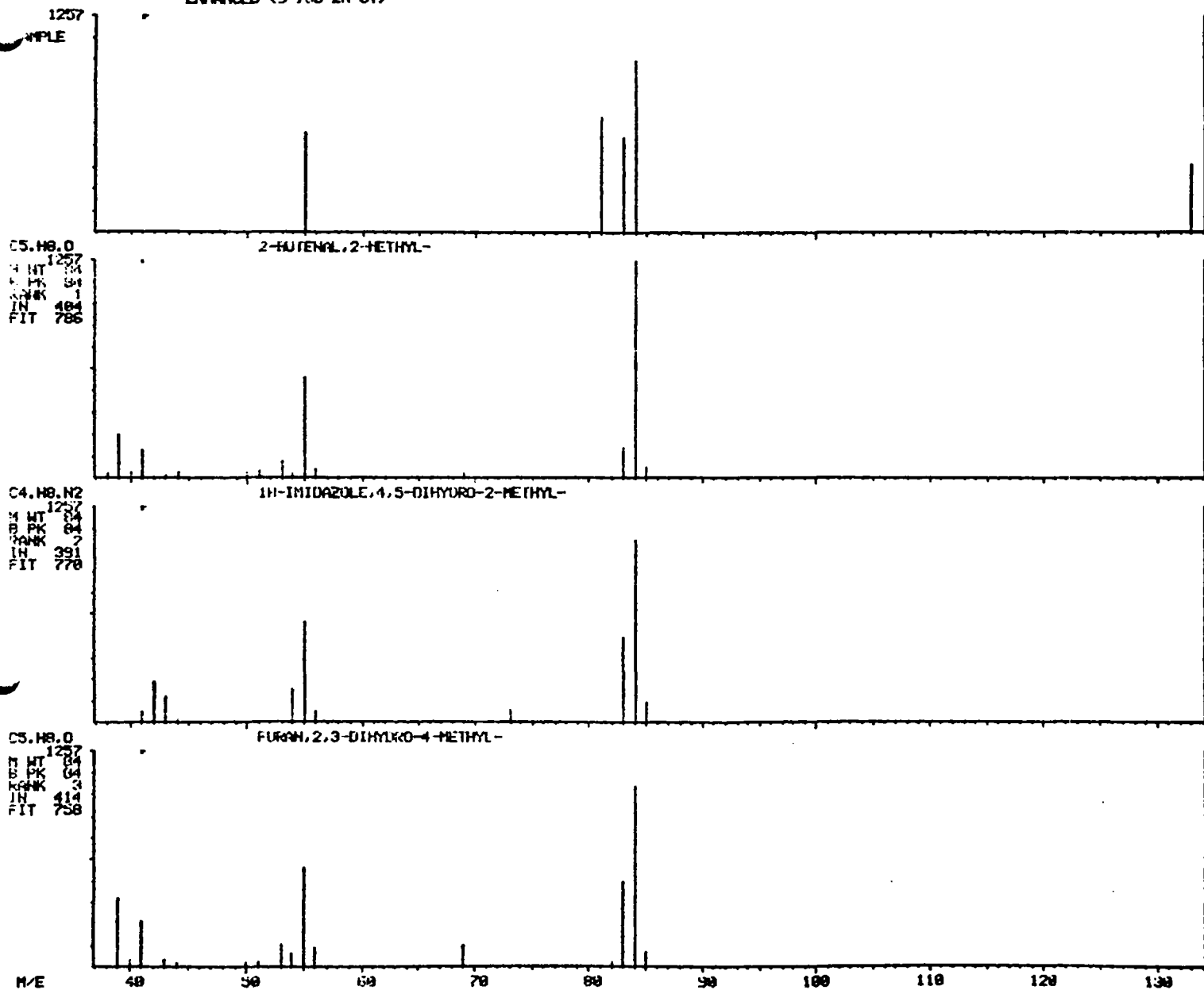
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CALI: FZCAL # 1 RIC: 7575.

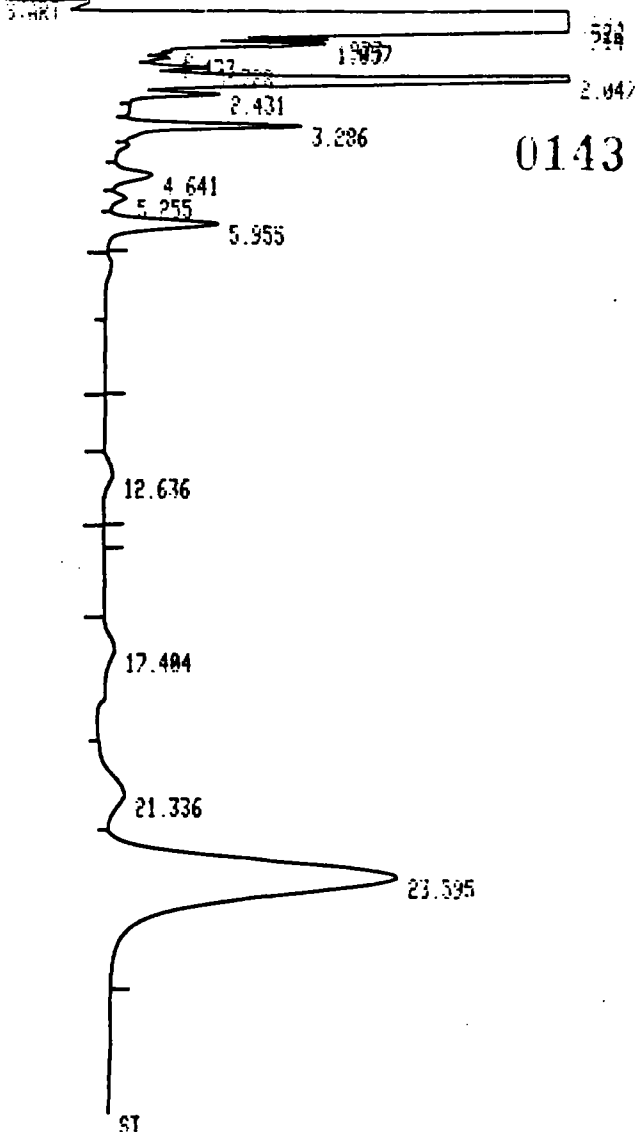


M/E 50 100 150 200 250

LIBRARY SEARCH
12/21/84 18:20:08 + 37:44
SAMPLE: AB165 100ML:1M, 12/18/84-55
ENHANCED (S 1GB 2N 0T)

DATA: 2E11285GC81 #2264
CALI: F2CAL # 1
BASE M/E: 84
RIC: 695.





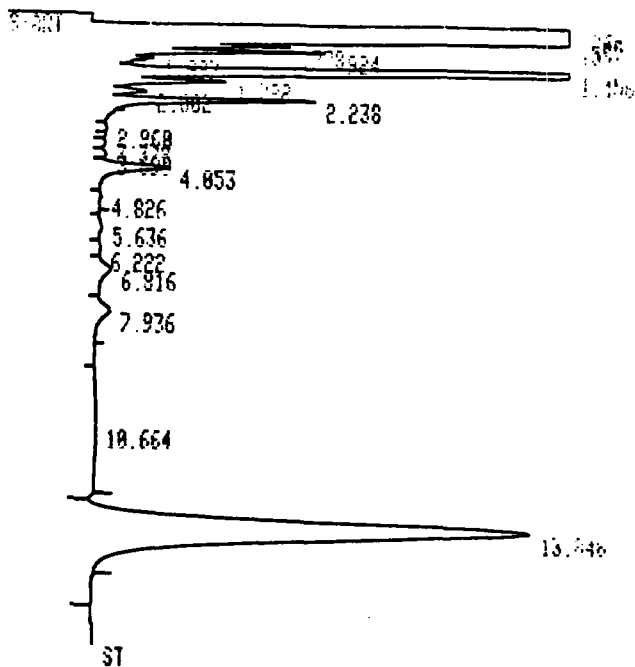
0143

CASE NUMBER 3633
 SAMPLE ID AB 166
 VOLUME INJECTED 2ul
 COLUMN MP

3633
 RUN # 158 FEB/11/85 23:40:40
 WORKFILE ID: C 5-2-5221-23 2ul
 WORKFILE NAME: 2412056-CIA 1P
 ID: 5-1-2-84 Rm MP2 Rest.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.293	1892102	SBH	0.090	43.100
0.526	558311	DSHH	0.090	12.718
0.714	1579137	DSHB	0.074	35.971
0.933	10364	DTBY	0.059	0.236
1.057	13701	TYB	0.120	0.312
1.473	1781	D PP	0.078	0.041
1.728	7281	PV	0.118	0.166
2.047	234937	VV	0.125	5.352
2.431	10344	VP	0.134	0.236
3.286	21560	PV	0.189	0.491
4.641	4664	PV	0.324	0.106
5.255	1670	VP	0.227	0.038
5.955	13107	PB	0.290	0.299
12.636	1097	BB	0.700	0.025
17.404	1612	BP	1.322	0.037
21.336	2965	PV	1.113	0.068
23.595	35379	VB	1.184	0.806

TOTAL HIGHT= 4390000
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB166
 VOLUME INJECTED 2 ul
 COLUMN SP

7633

RUN # 394 FEB/17/85 22:56:15
 ID 1-1-1-85 1-1-50217-16 2 ul
 8412056-01A
 Run SP Post.

RT	HEIGHT	TYPE	AR/HT	HEIGHTS
0.264	2357631	SBH	0.125	24.312
0.445	1905147	DSHH	0.149	19.650
0.595	2633770	SHH	0.115	27.160
0.778	81880	DTBP	0.064	0.845
0.924	157427	DTPP	0.077	1.624
1.097	11974	DTPP	0.070	0.124
1.450	1708355	SHB	0.170	17.620
1.722	82376	DTBP	0.100	0.850
2.002	24207	DTPV	0.104	0.250
2.238	192964	TVB	0.123	1.990
2.960	2308	TBY	0.156	0.004
3.378	2145	TVV	0.152	0.022
3.699	3766	TVV	0.175	0.039
4.053	67325	TVP	0.216	0.694
4.826	980	TPP	0.217	0.010
5.636	3697	TVV	0.361	0.038
6.222	2741	TVV	0.420	0.028
6.816	13358	TVV	0.472	0.138
7.936	14277	TVV	0.456	0.140
10.664	2050	TPB	2.022	0.021
13.848	427067	PB	0.583	4.400

TOTAL HIGHT= 9695400
 MUL FACTOR= 1.0000E+00

Sample Number
AB167

Organics Analysis Data Sheet
(Page 1)

0145

Laboratory Name: Radian
 Lab Sample ID No: 4ER12056V02
 Sample Matrix: Water
 Data Release Authorized By: APetrovsk

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-8-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 12-14-84

Conc/Dil Factor: 1:1 pH

Percent Moisture: 100%

Percent Moisture (Decanted):

*see pg 5
3/10/85*

CAS-Number	Compound	ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U J
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	2000 U J SU
67-64-1	Acetone	Y30 U J 10U
75-15-0	Carbon Disulfide	SU J
75-35-4	1, 1-Dichloroethene	SU
75-34-3	1, 1-Dichloroethane	SU
156-60-5	Trans-1, 2-Dichloroethene	SU
67-66-3	Chloroform	25 U J SU
107-06-2	1, 2-Dichloroethane	SU J
78-93-3	2-Butanone	R 150
71-55-6	1, 1, 1-Trichloroethane	25 U J SU
56-23-5	Carbon Tetrachloride	SU J
108-05-4	Vinyl Acetate	10U J
75-27-4	Bromodichloromethane	SU J

CAS Number	Compound	ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	14 J
78-87-5	1, 2-Dichloropropane	SU
10061-02-6	Trans-1, 3-Dichloropropene	SU
79-01-6	Trichloroethene	SU
124-48-1	Dibromochloromethane	SU
79-00-5	1, 1, 2-Trichloroethane	SU
71-43-2	Benzene	SU
10061-01-5	cis-1, 3-Dichloropropene	SU
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	SU
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	SU
108-88-3	Toluene	SU
108-90-7	Chlorobenzene	SU
100-41-4	Ethylbenzene	SU
100-42-5	Styrene	SU
	Total Xlenes	15

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U. Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number

AB167

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-21-84Conc/Dil Factor: 1000:1*all in ET
5/10/85*

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u 2
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benz(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u 100 uT
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benz(b)Fluoranthene	10u
207-08-9	Benz(k)Fluoranthene	10u
50-32-8	Benz(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benz(a, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB167

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

*ave. inst
5/10/85*

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 2-11-85
Conc/Dil Factor: 1000 ml ; 5 ml

CAS Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_t 5000 uL V_i 2 uL

 SAMPLE NUMBER:
 AB167

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L) OR UG/KG
1 29535-71-0	CYCLOHEXANOL, 1-CHLORO-, TRANS-	ABN	522	} TP 202 BB B1
2 931-17-9	1,2-CYCLOHEXANEDIOL	ABN	533	
1	Unknown	✓	217	

see folder 5/10/95

H1U
 12/14/84 14:05:09
 SAMPLE: F4.D.EPA.AB167.C3.V.1.1.HAS
 RANGE: 6 1. 650 LABEL: N 0. 4.0 QUANT: A 0. 1.0 BASE: U 20. 3

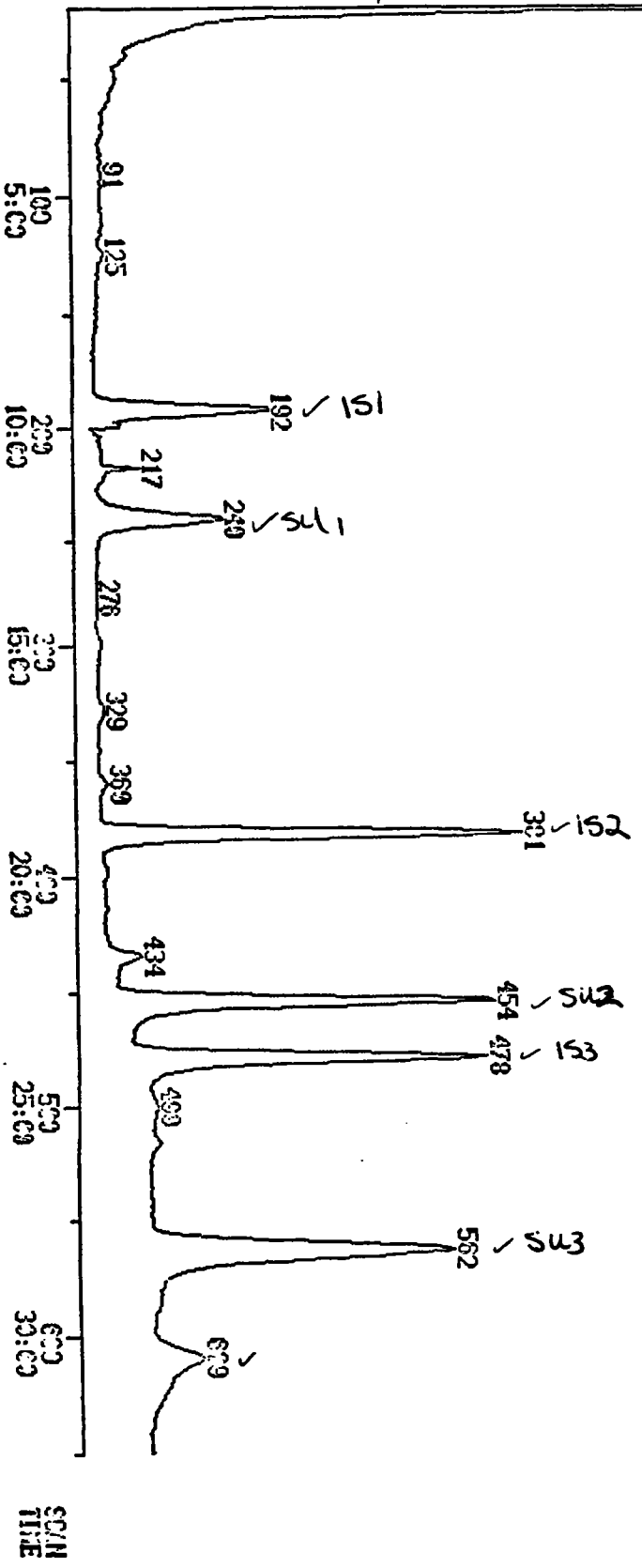
CALI: FACAL #1

558272.

0149

RIC

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4ER12056V02.T1

12/14/84 14:05:00

SAMPLE: F4,D,EPA,AB167,00,V,1:1,NA\$

SUBMITTED BY: EPA

ANALYST: MM

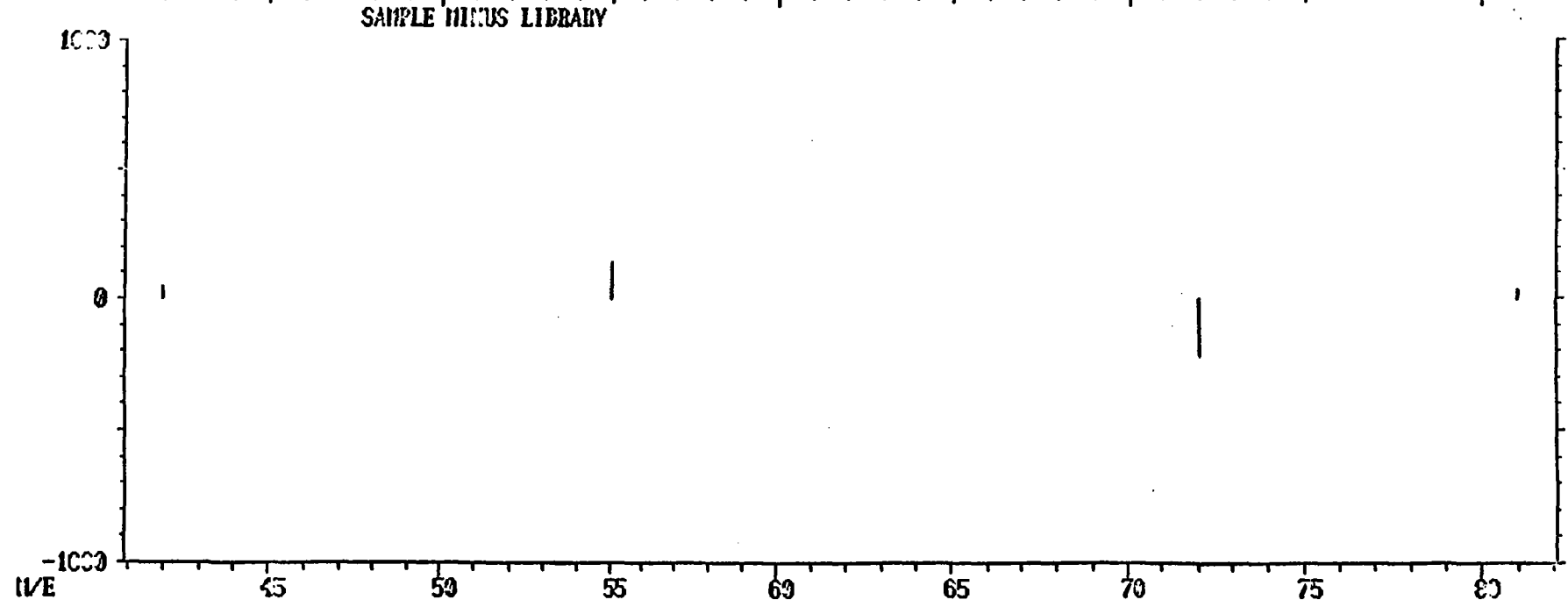
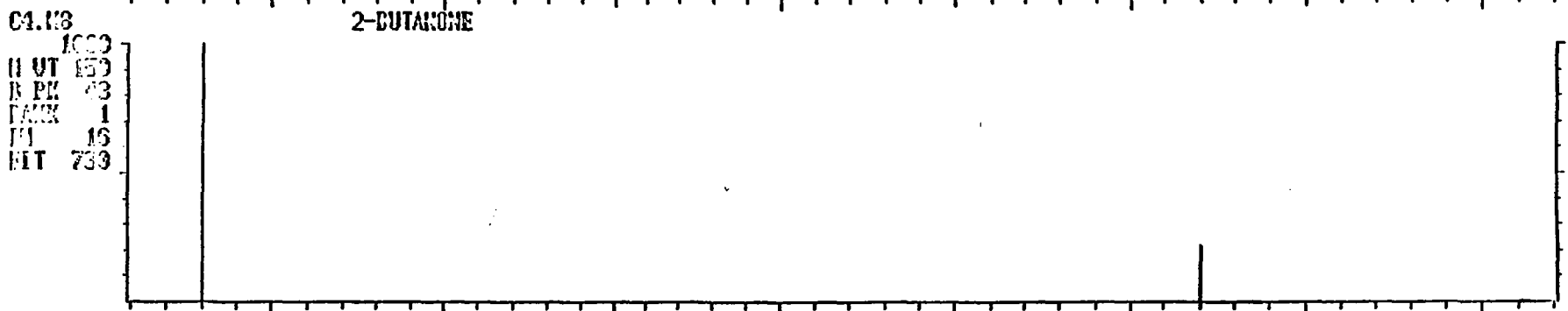
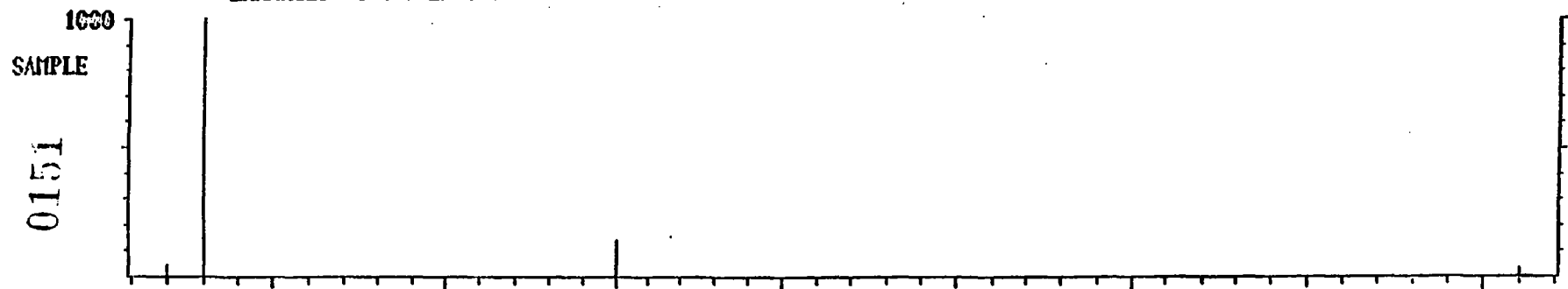
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	2-BUTANONE
8	1,1,2,2-TETRACHLOROETHANE
9	TOTAL XYLENES

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	191	9:33	1	1.000	A 88	67983.	50.000 UG/L	10.69
2	67	240	12:00	1	1.257	A 88	84104.	100.007 %	21.55
3	114	331	19:03	3	1.000	A 88	411923.	50.000 UG/L	10.69
4	117	473	23:54	4	1.000	A 88	307445.	50.000 UG/L	10.69
5	98	454	22:42	4	0.950	A 88	376400.	92.449 %	19.75
6	95	552	28:05	4	1.176	A 88	270932.	81.931 %	17.32
7	45	255	11:49	3	0.519	A 88	19718.	14.725 UG/L	3.15
8	83	454	21:42	4	0.909	A 88	45751.	13.712 UG/L	2.93
9	105	609	33:24	4	1.272	A 88	34709.	15.163 UG/L	3.24

LIBRARY SEARCH
12/14/84 14:05:00 + 11:48
SAMPLE: F4.D.EPA.AB167.G0.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

DATE: 12/14/84 14:05:00
CALI: F4CAL 0 1
RUC: 1230.

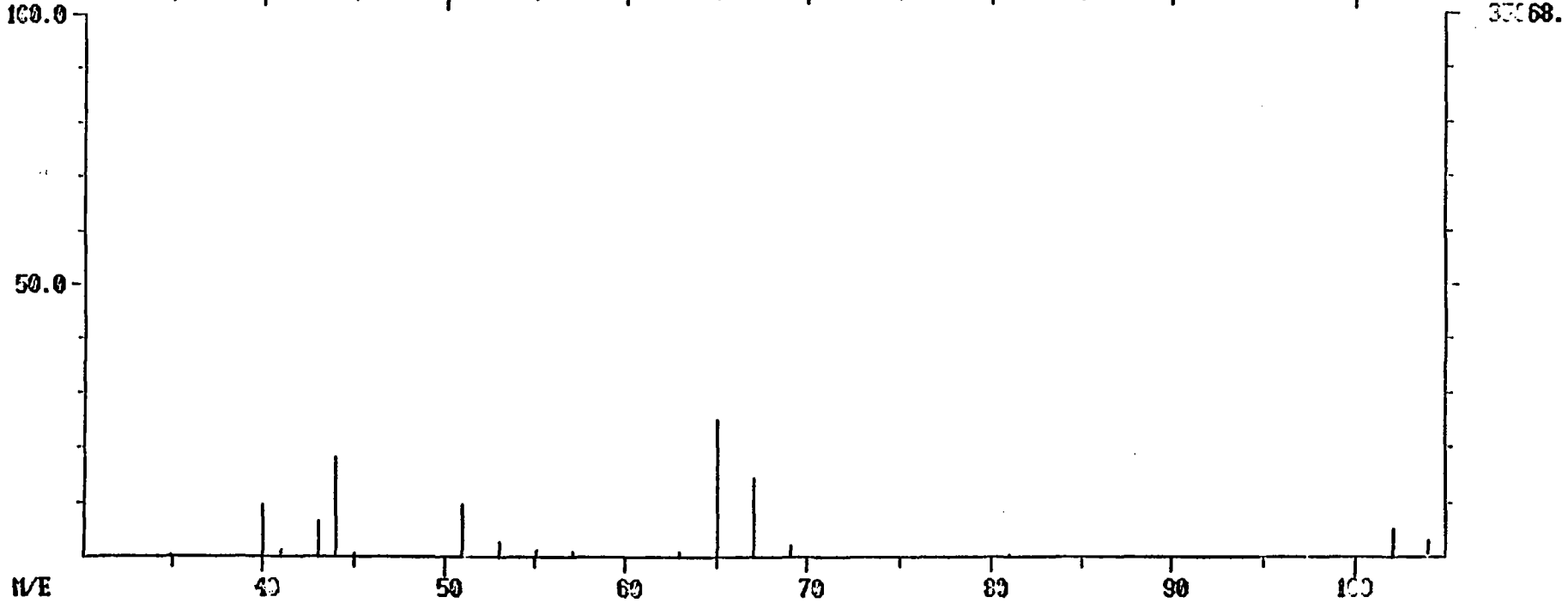
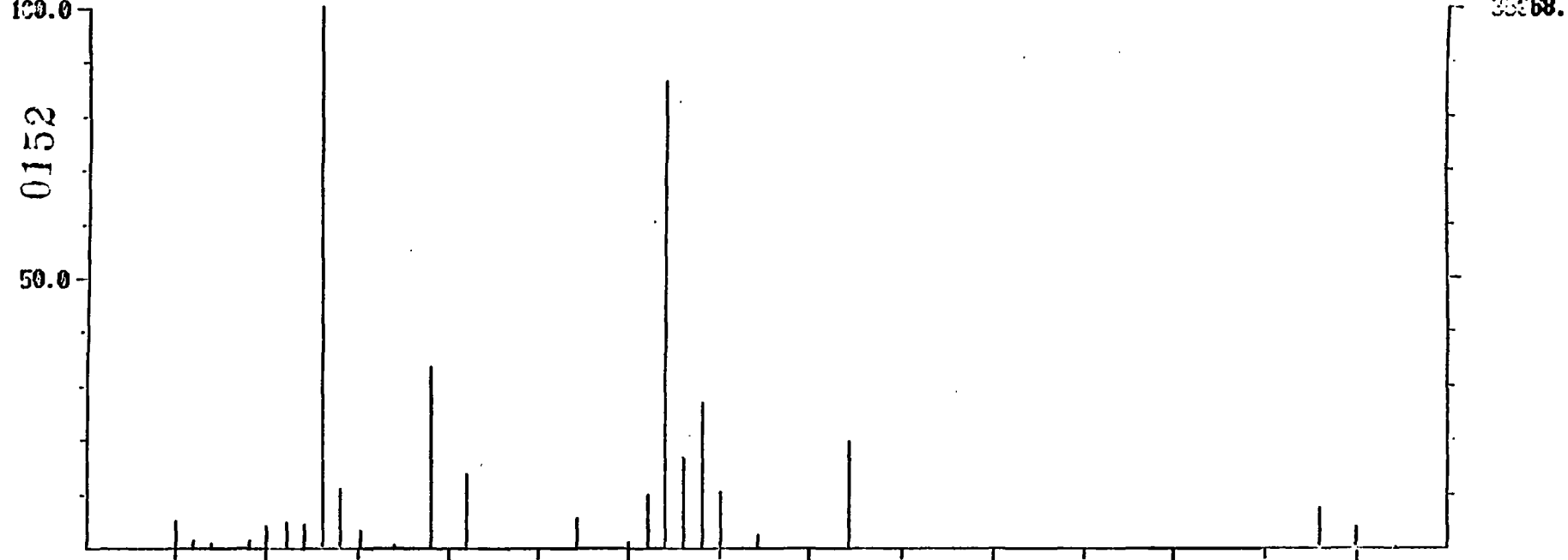


DUAL MASS SPECTRUM
10/15/84 6:32:00 + 10:48
SAMPLE: F4.D.VEB.C0100.C0.V.MA:MA.NAS
DATA: 4ER12056V02 #236

CALI: F4CAL 01

RIC: 135679./ 30479.

SECOND SPECTRUM



m/e

40

50

60

70

80

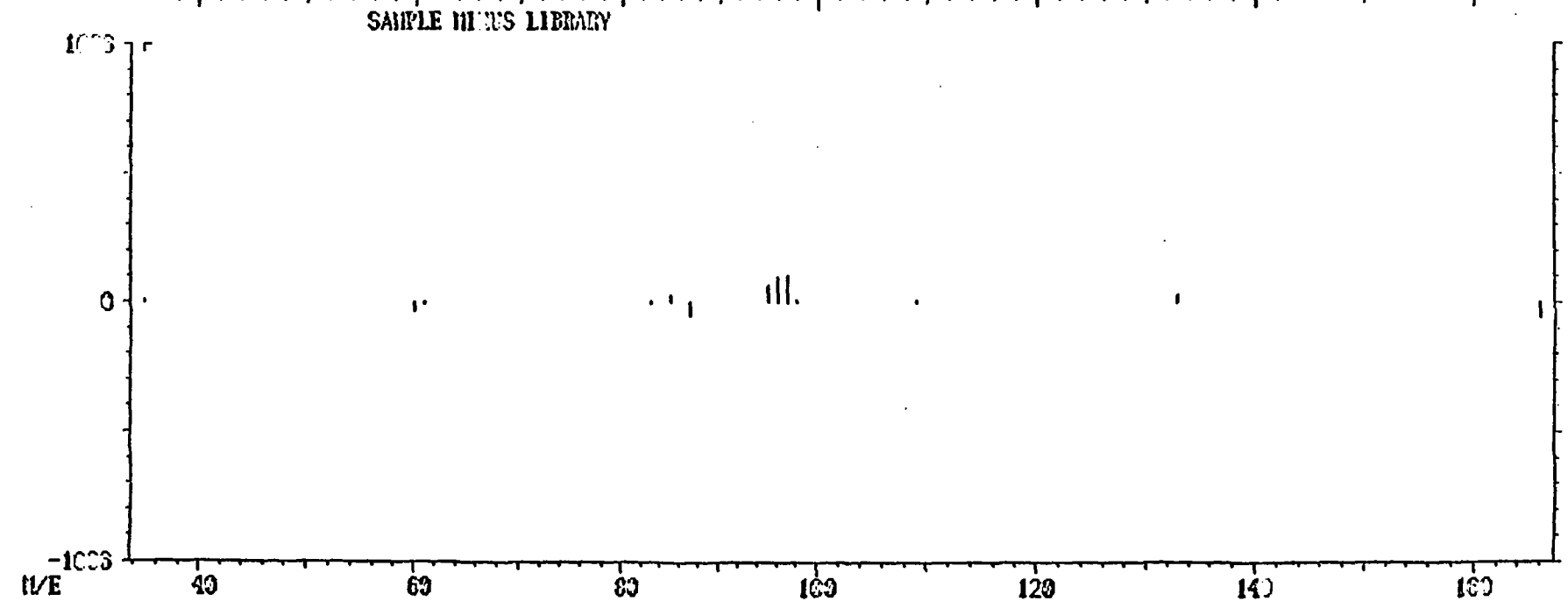
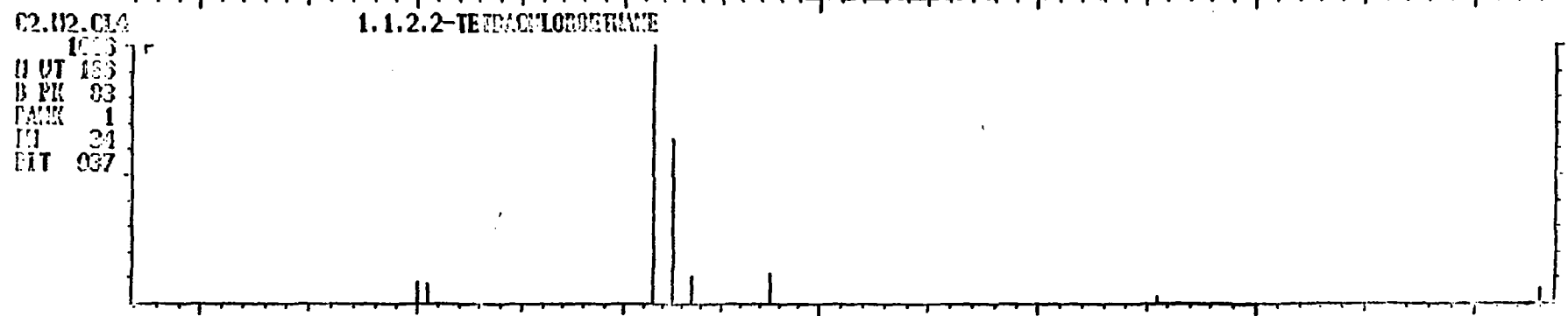
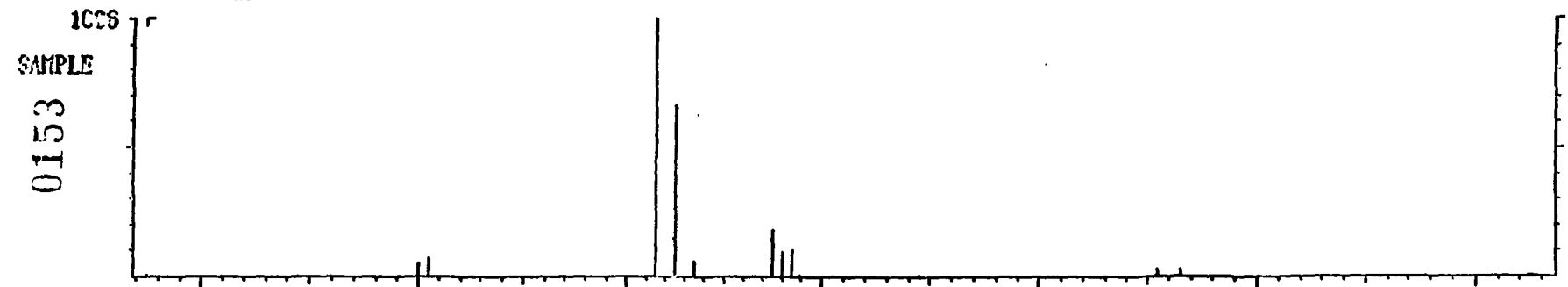
90

100

12/14/84 14:05:09 + 21:42
SAMPLE: F4.D.EPA.AB167.C3.V.1:1.HAS
ENHANCED (S 15B 2N 0T)

CALI: F4CAL 0 1

RIC: 13183.

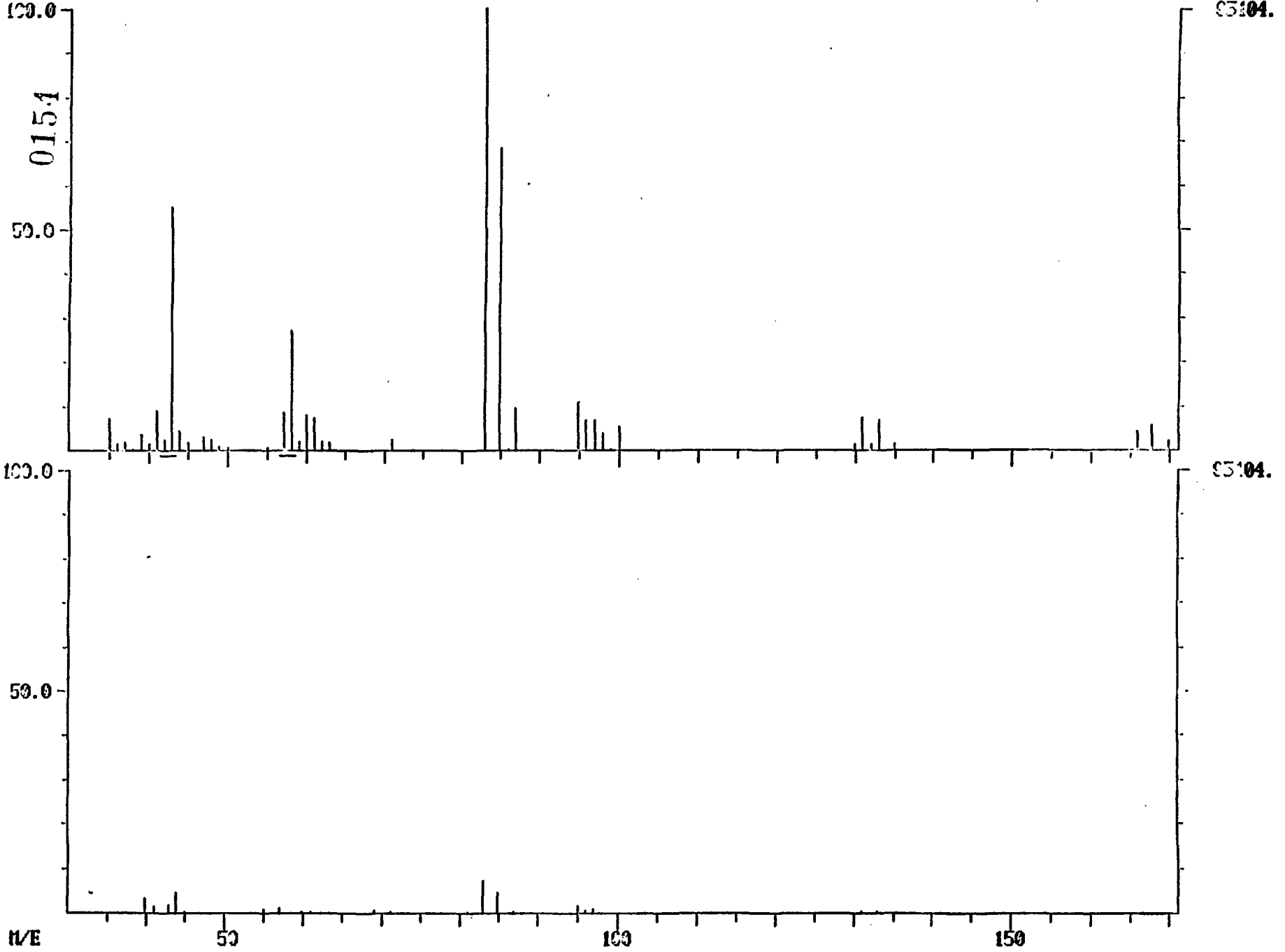


DUAL MASS SPECTRUM
10/15/84 6:32:03 + 20:18
SAMPLE: F4.D.VER.C91C3.C3.V.MA:NA.NAS
DATA: 4ER12256V02 0434

CALI: F4CAL 01

RIC: 391439.7 28593.

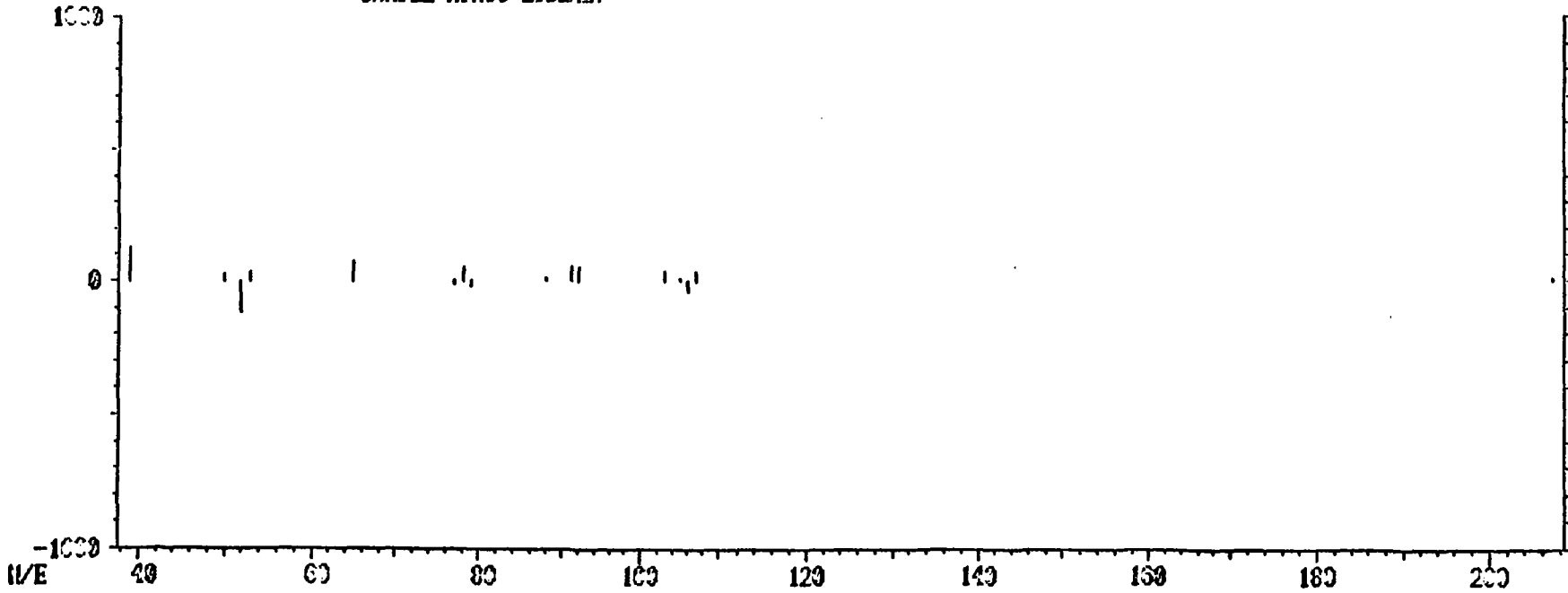
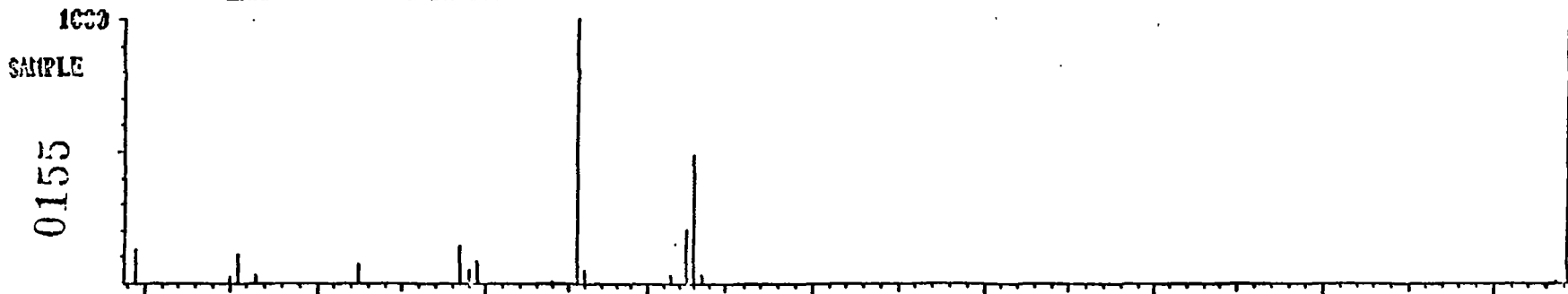
SECOND SPECTRUM



LIBRARY SEARCH
12/14/84 14:05:09 + 39:24
SAMPLE: F4.D.EPA.AB167.C9.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

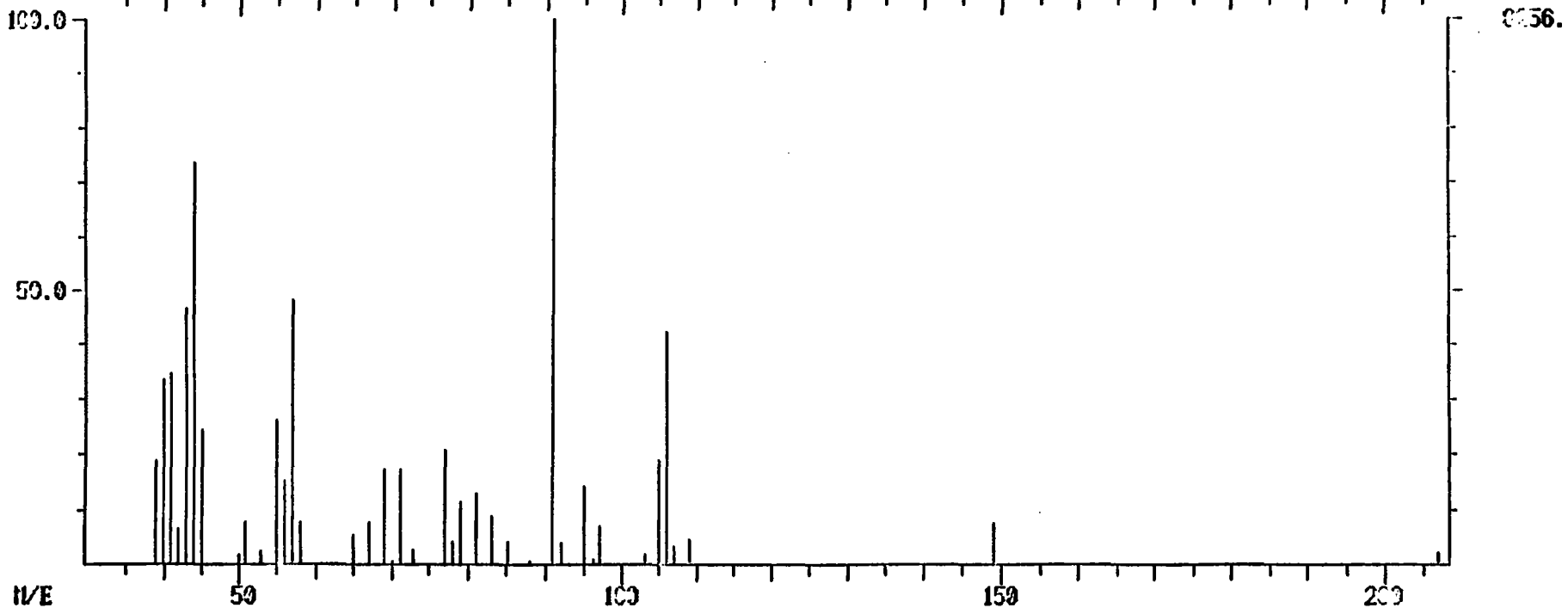
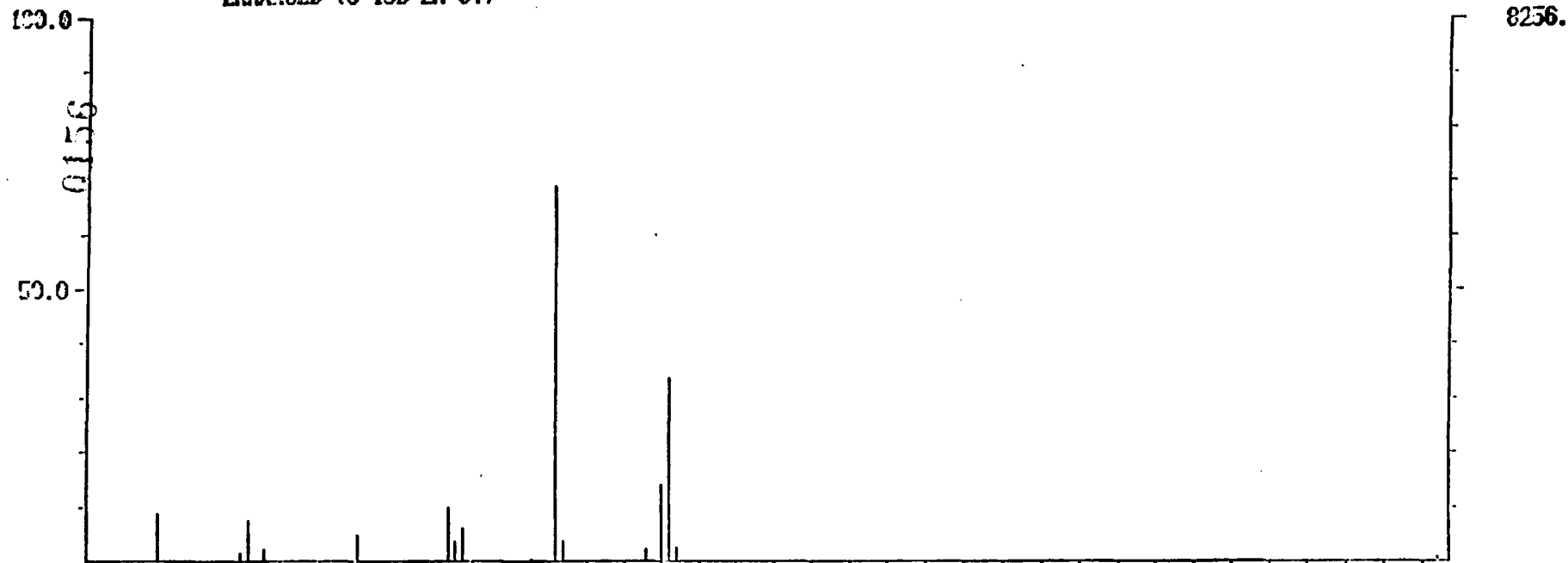
DATE: 12/14/84 14:05:09
CALI: F4CAL # 1

NUM: 1741 01
R1C: 14331.



DUAL MASS SPECTRUM
12/14/84 14:05:00 + 30:24
SAMPLE: F4.D.EPA.AB167.C0.V.1:1.GAS
ENHANCED (S 15B 2N 0T)

CALI: F4CAL 01 RIC: 14031.7 55231.



m/z

50

100

150

200

Radian DC# _____ -1C

NHSL CALCULATION FORMCase Number: 3633Date: 12-14-84File Name: 4ER12056V02

Operator: _____

Fraction: VC SV

	---Unknown---		---Int. Std.---		IS Conc.	Est. Conc.
	Scan #	RIC HTH	Scan #	RIC HTH		
1.	217	11183	191	67983	16.7	3
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

12/14/84 14:05:00 + 10:51
SAMPLE: F4.D.EPA.AB167.00.V.1:1.MAS
ENHANCED (S 15B 2H 0T)

CALL: FACAL # 1 RIG: 1183.

SAMPLE

0158

1000

C3.H8.02.H

1000
H UT 85
B PR 41
BANK 443
H 572
K33

ACETICACID-CYANO-
Unknown

C4.H8.02.H2

1000
H UT 116
B PR 41
BANK 2149
H 396
FUR

2,3-BUTANEDIONE, DIOXIME

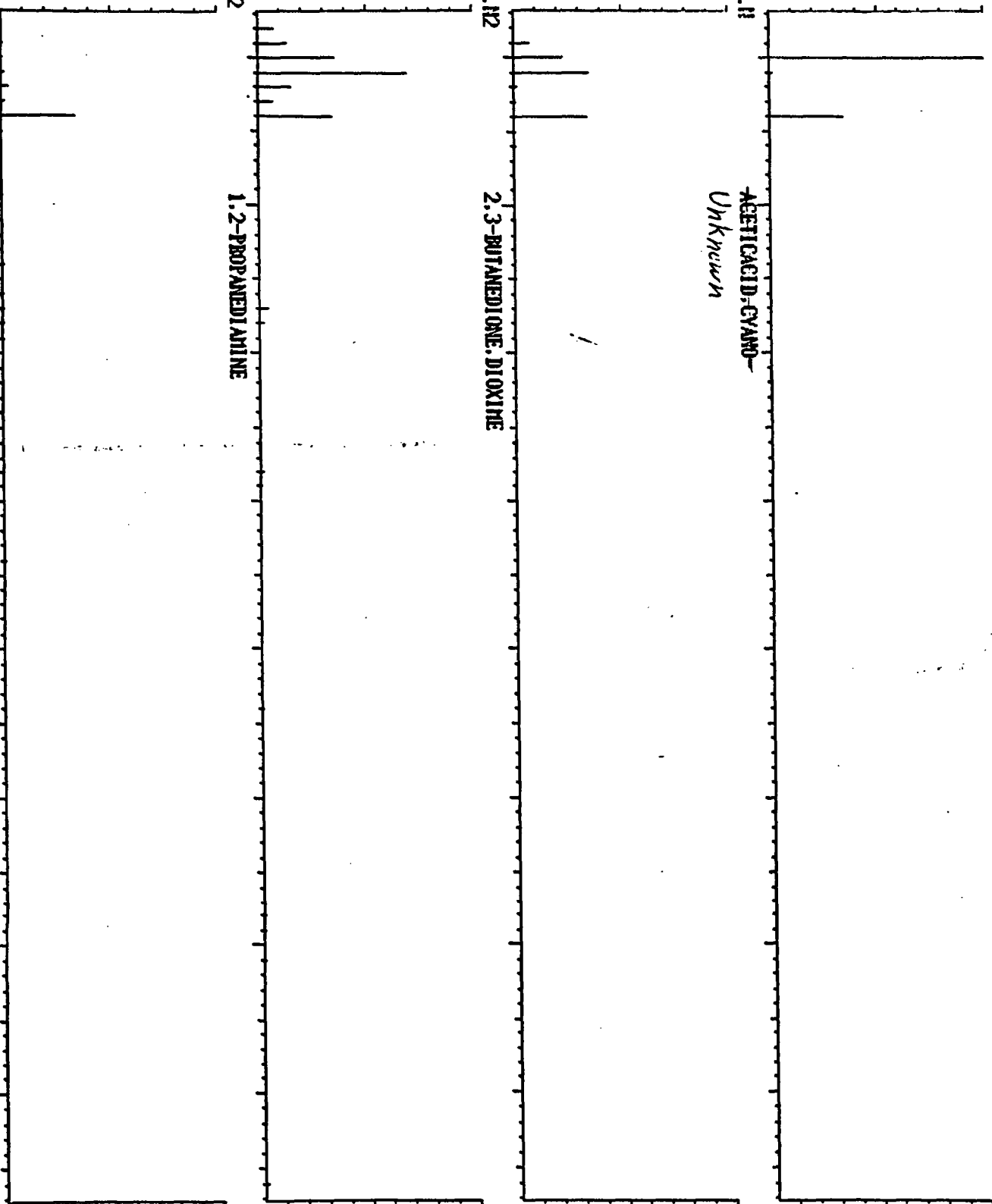
C3.H10.H2

1000
H UT 74
B PR 44
BANK 3
H 226
MUR 316

1,2-PROPANEDIAMINE

N/E

40 50 60 70 80 90 100 110



RIC
12/21/84 19:18:00
SAMPLE: AB167
RANGE: G 1.2550

1000ML: 1ML. 12/10/84-SS
LABEL: H 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

DATA: 2EU12056C02 #1
CALI: F2CAL #1

SCANS 300 TO 2550

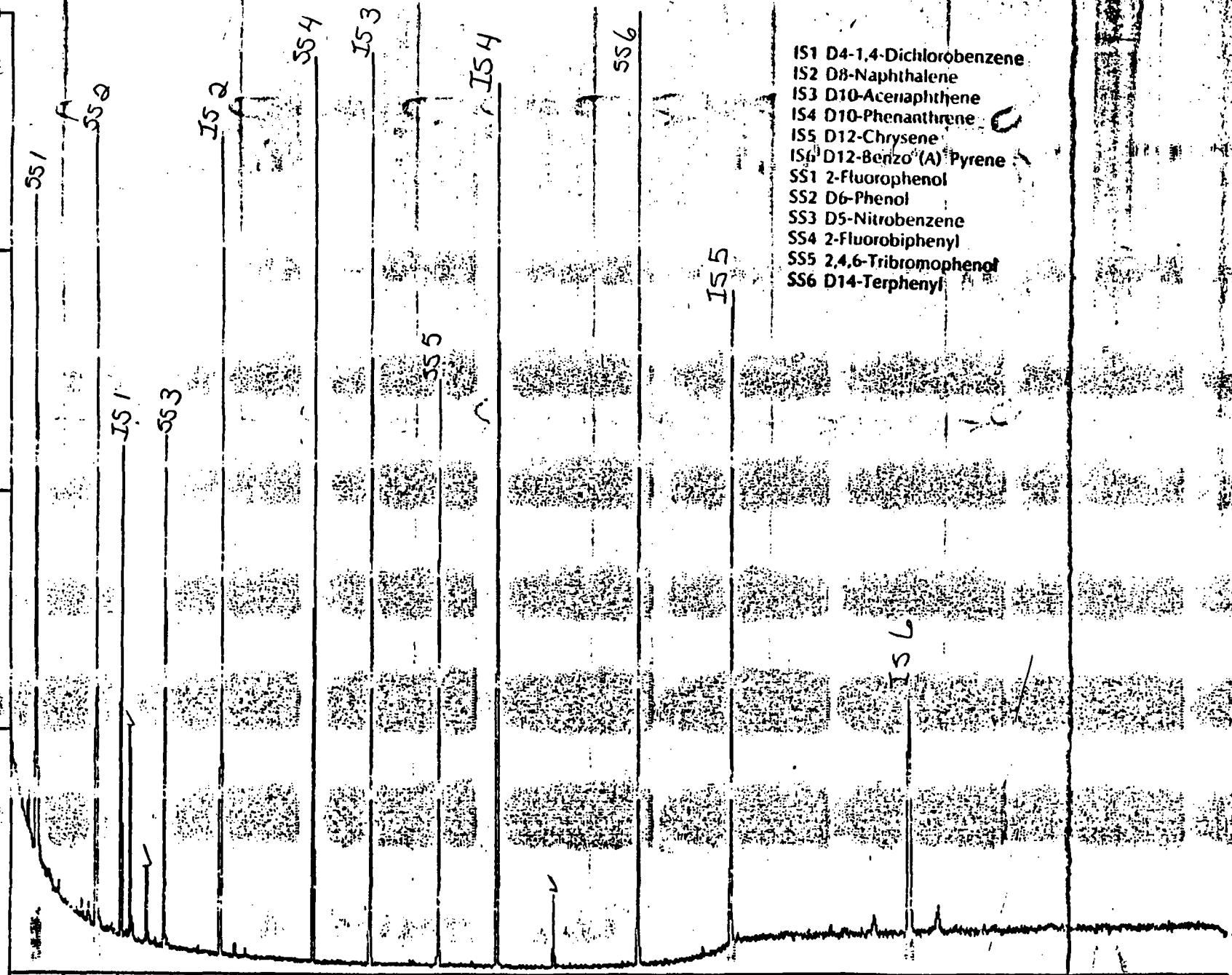
177152.

RADIAN DC * FC43-8

ANALYST: WAA

0159

RIC



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500
8:20

1000
16:40

1500
25:00

2000
33:20

2500
41:40

SCAN
TIME

0160

DATA: 2EU12056C02.T1

12/21/84 19:18:00

SAMPLE: AB167 10 10 L: 1ML, 10/10/84-SS

SUBMITTED BY: EPA ANALYST: WAA

OUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)

ESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLORO BENZENE (IS)
- 2 D8-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 DI-N-BUTYLPHTHALATE

NO	WAVE	SCAN	TIME	REF	RET	METH	AREA (HGHT)	AMOUNT	XTOT
1	152	505	8:25	1	1.020	A BB	45334.	40.000 UG/ML	3.80
2	136	690	11:30	2	1.020	A BB	167894.	40.000 UG/ML	3.80
3	164	967	16:07	3	1.000	A BB	93395.	40.000 UG/ML	3.80
4	188	1202	20:02	4	1.000	A7BB	145780.	40.000 UG/ML	3.80
5	240	1634	27:14	5	1.000	A BB	126740.	40.000 UG/ML	3.80
6	264	1968	32:48	6	1.000	A7BB	110460.	40.000 UG/ML	3.80
7	112	348	5:48	1	0.689	A7BV	83100.	174.052 x	16.55
8	99	460	7:40	1	0.911	A BB	139608.	187.828 x	17.86
9	82	586	9:45	2	0.849	A BB	64638.	67.914 x	6.46
10	172	861	14:21	3	0.890	A BB	138469.	118.375 x	11.25
11	330	1093	18:13	3	1.130	A BB	34583.	144.549 x	13.75
12	244	1463	24:23	5	0.895	A BB	165315.	110.950 x	10.55
13	94	461	7:41	1	0.913	A BB	4081.	3.817 UG/ML	0.29
14	149	1306	21:46	4	1.097	A BB	18616.	4.886 UG/ML	0.46

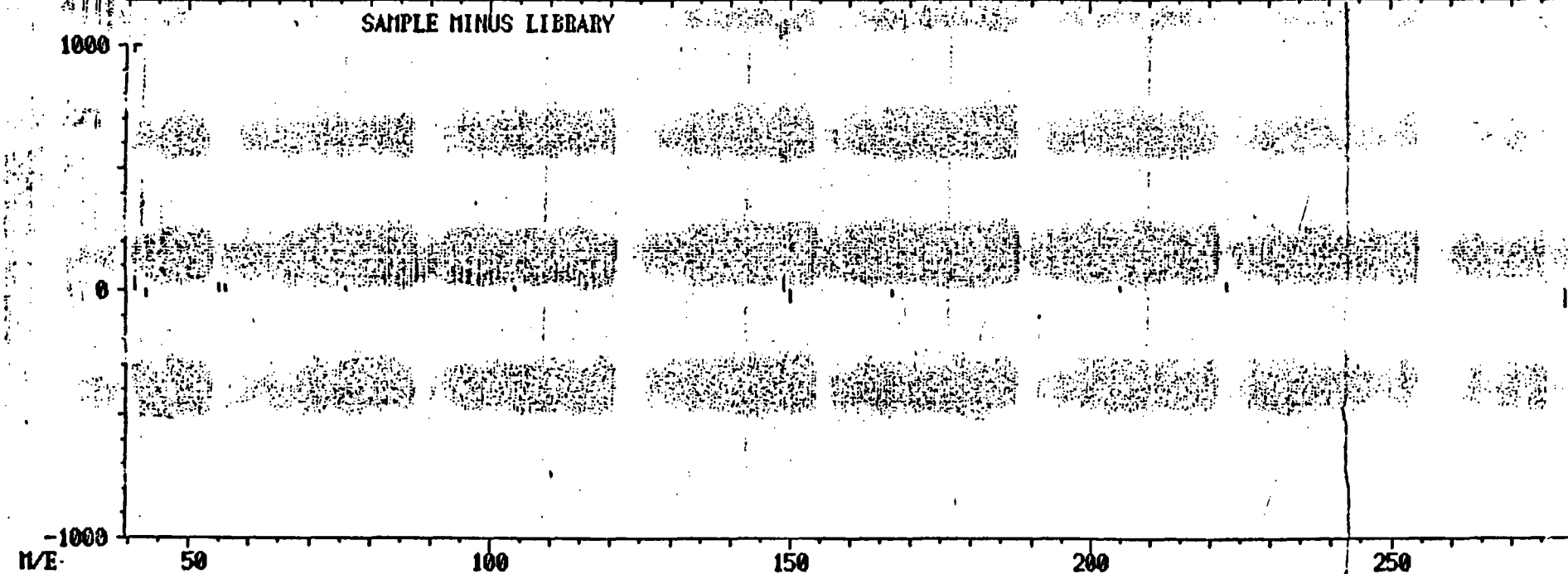
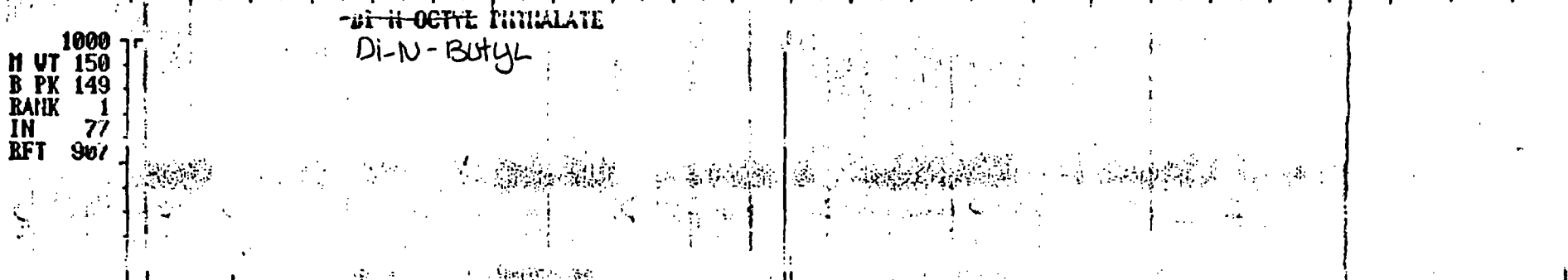
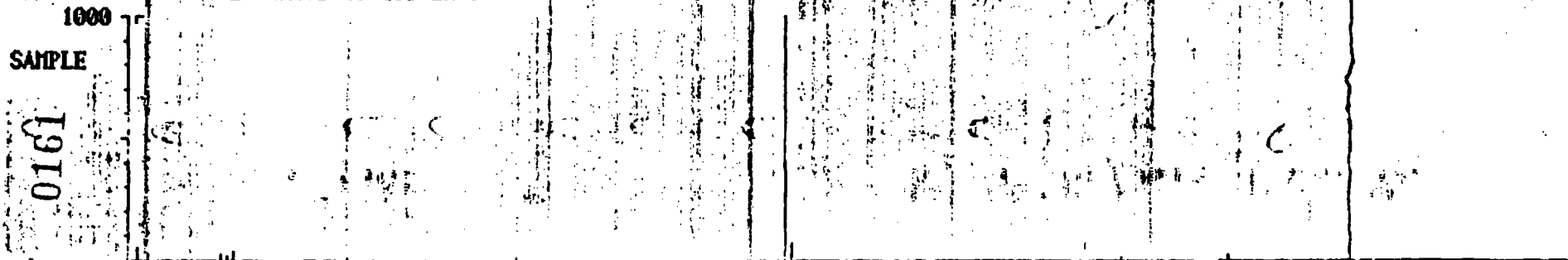
L
C

LIBRARY SEARCH
12/21/84 19:18:00 + 21:46
SAMPLE: AB167 1000ML: 1ML. 12/10/84-SS
ENHANCED (S 15D 2N 0T)

DATA: 2EU12056C02 #1306
CALI: F2CAL # 1

BASE N/E: 149
R/C: 9487.

020

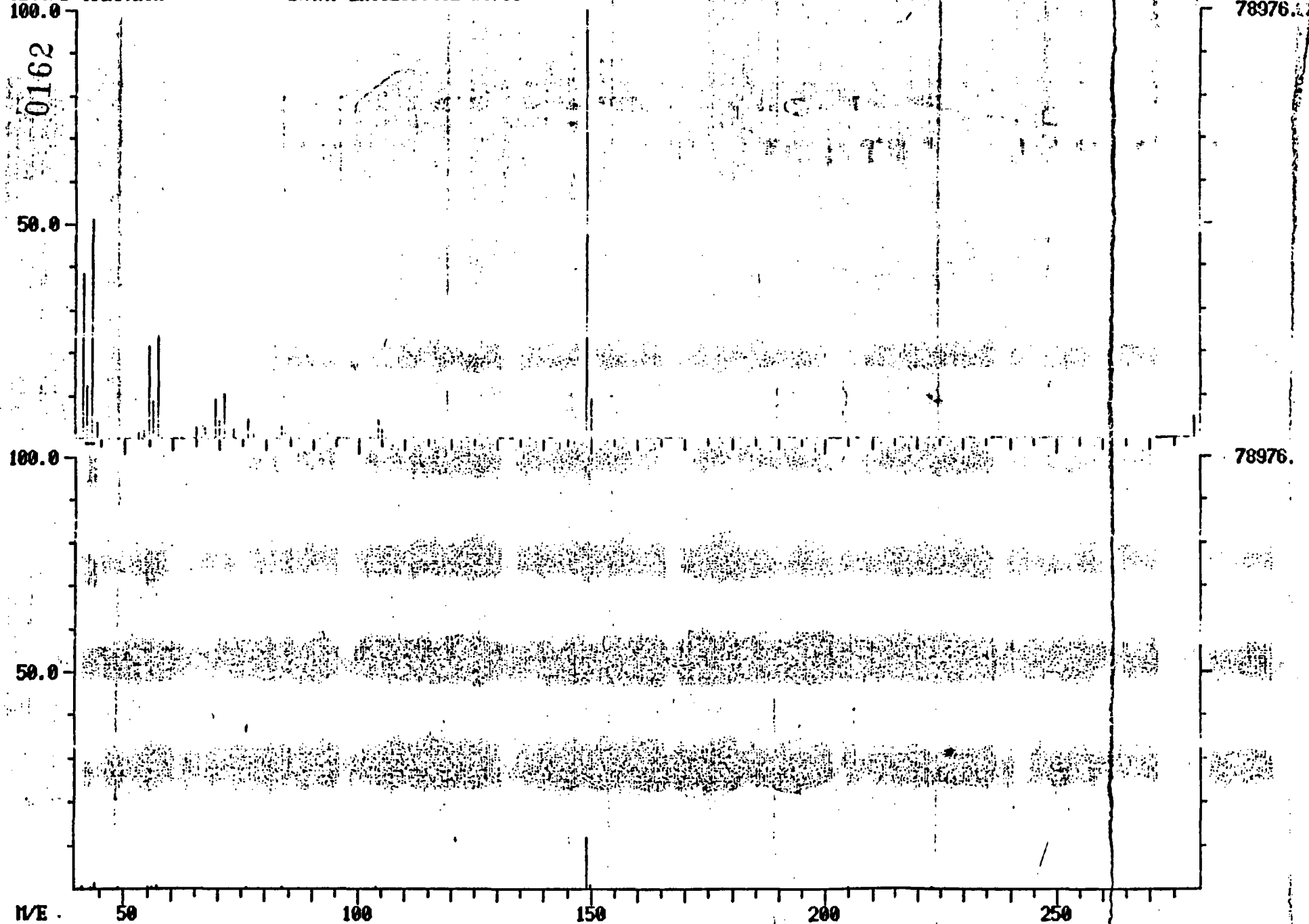


DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA:NA.NAS
DATA: 2FU12056C02 #1306

DATA: EPSTD #1745
CALI: F2CAL #1

BASE N/E 149/ 149
RIC: 257279.7 13999.

SECOND SPECTRUM



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12056C02.TI

2/21/84 19:18:00

SAMPLE: AB167 1000ML:1ML,12/10/84-S*

SUBMITTED BY: EPA ANALYST: WAA

AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)

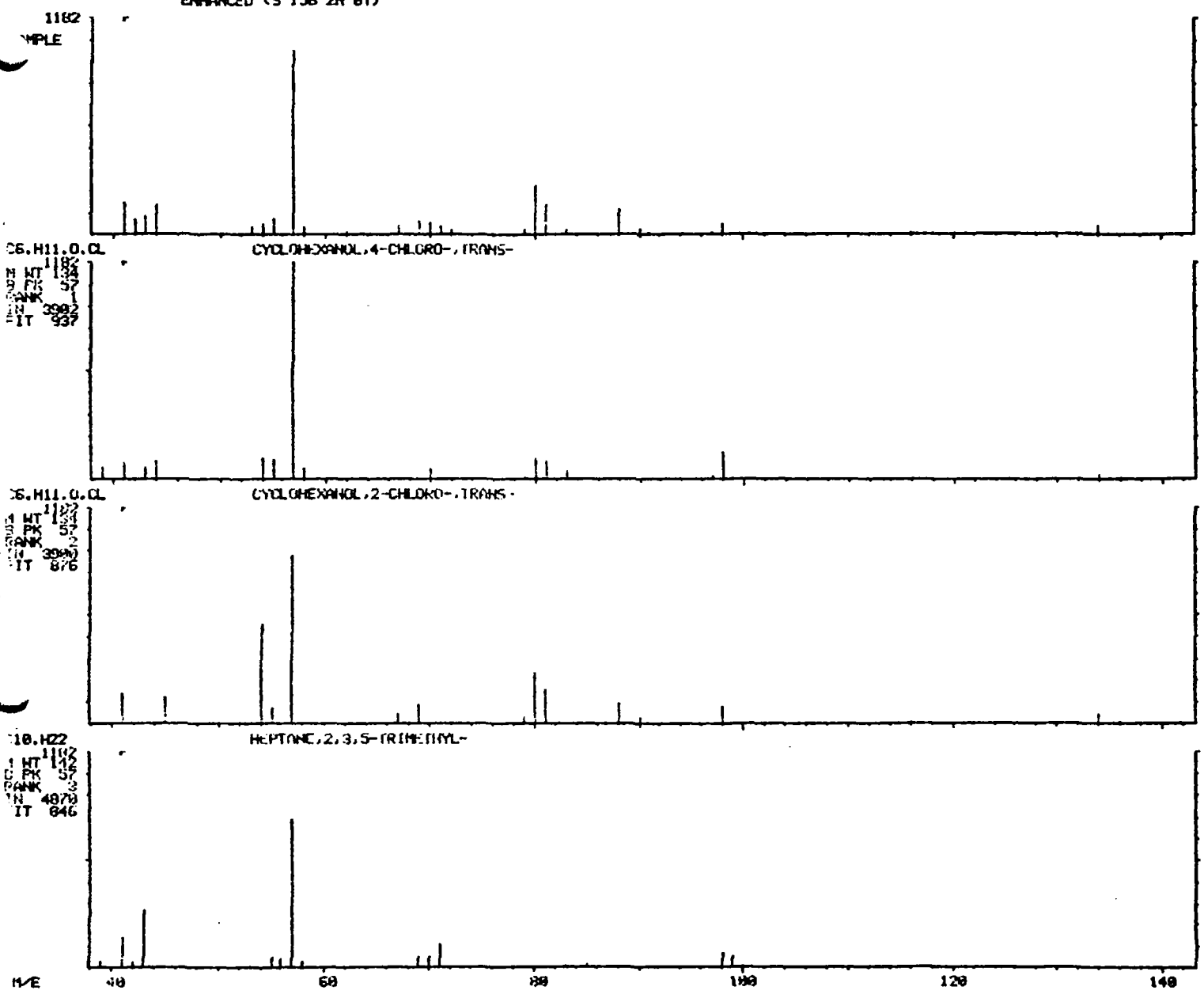
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	D4-1,4-DICHLOROBENZENE (IS)
2	DB-NAPHTHALENE (IS)
3	D10-ACENAPHTHENE (IS)
4	D10-PHENANTHRENE (IS)
5	D12-CHRYSENE (IS)
6	D-12 BENZO(A)PYRENE (IS)
7	CYCLOHEXANOL, 4-CHLORO-, TRANS-
8	1,2-CYCLOHEXANEDIOL

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	505	8:25	1	1.000	A BB	45334.	40.000 UG/ML	7.61
2	136	690	11:30	2	1.000	A BB	167894.	40.000 UG/ML	7.61
3	164	967	16:07	3	1.000	A BB	93395.	40.000 UG/ML	7.61
4	188	1202	20:02	4	1.000	A?BB	145780.	40.000 UG/ML	7.61
5	240	1634	27:14	5	1.000	A BB	126740.	40.000 UG/ML	7.61
6	264	1968	32:48	6	1.000	A?BB	110460.	40.000 UG/ML	7.61
7	TOT	522	8:42	1	1.034	A UB	76341.	202.095 UG/L	38.46
8	TOT	553	9:13	1	1.095	A BB	31476.	83.326 UG/L	15.86

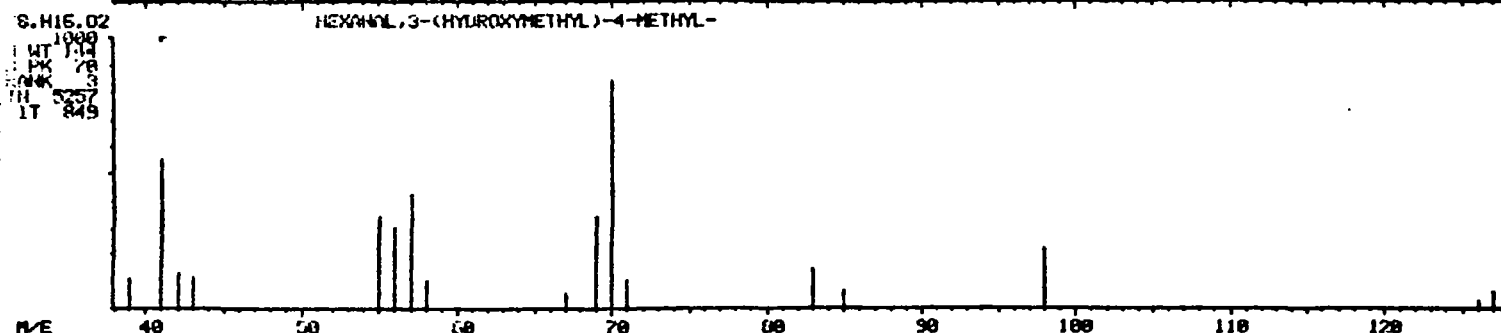
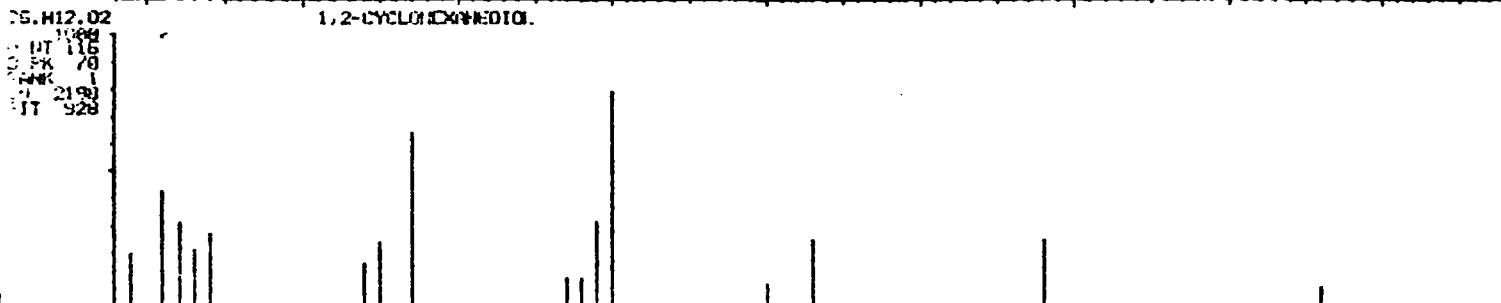
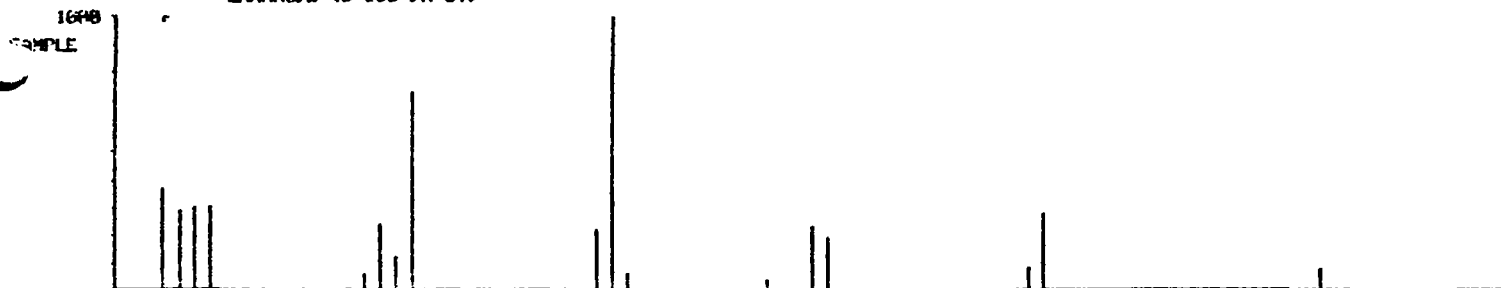
LIBRARY SEARCH
12/21/04 15:18:00 + 3:42
SAMPLE: AB167 1000ML:1ML,12/10/04-55
ENHANCED (S 158 2N 01)

DATA: 2ELI17056082 # 522
CALI: F2CAL # 1
BASE M/E: 57
RIC: 30623.



LIBRARY SEARCH
 12/21/84 10:18:00 + 9:13
 SAMPLE: 01167 1000NL:JML,12/16/84-55
 ENHANCED (S 15B 2H 8T)

DATA: 2EU12056C02 # 553 BASE N/E: 70
 CAL: F2CAL # J RIC: 11583.



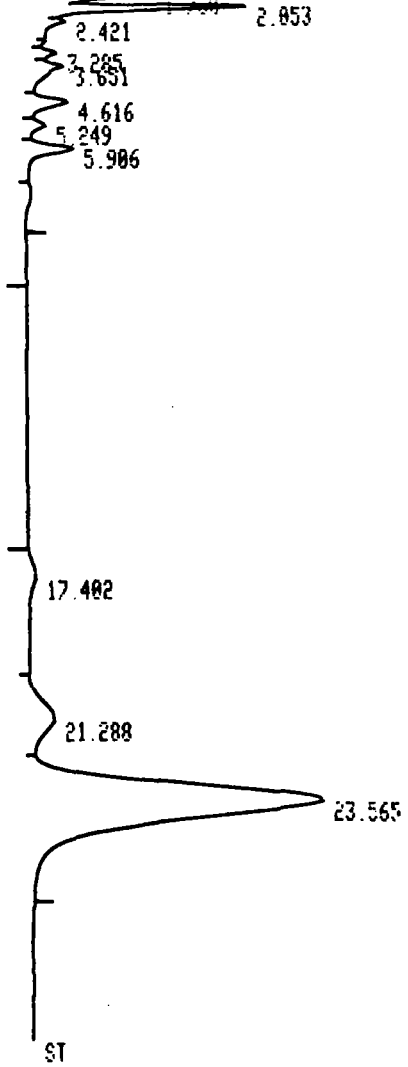
m/e 40 50 60 70 80 90 100 110 120

START

564
799

1.844922

0166

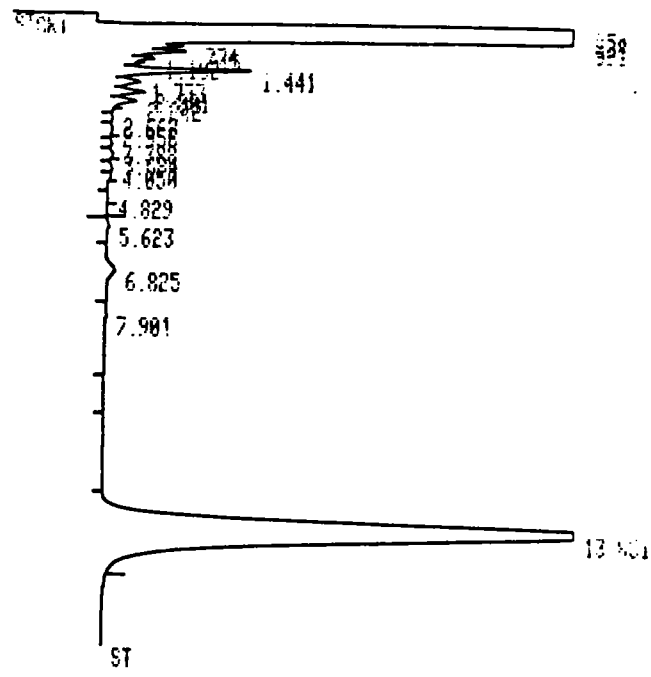


CASE NUMBER 3633
 SAMPLE ID AB167
 VOLUME INJECTED 2 µL
 COLUMN MP

3633
 RUN # 159 FEB/12/85 00:12:59
 WORKFILE ID: C 5-2-50211-24
 WORKFILE NAME: 8412056-02A
 ID: 5-1-2-84
 RM MP2
 Per.

RT	HEIGHT%	HEIGHT	TYPE	AR/HT	HEIGHT%
0.284	1714134	OSBB	0.121	72.636	
0.518	386212	DTRV	0.073	16.366	
0.709	167315	DTVP	0.065	7.090	
0.922	2787	DTVP	0.062	0.118	
1.730	10461	TBY	0.139	0.443	
2.053	22562	TVV	0.138	0.956	
2.421	1425	DTVP	0.115	0.060	
3.285	1902	TPV	0.188	0.081	
3.651	3007	TPV	0.313	0.127	
4.616	4152	TPV	0.276	0.176	
5.249	1680	TVV	0.236	0.071	
5.906	5202	TPV	0.276	0.220	
17.402	935	BP	0.896	0.040	
21.288	2093	PV	1.032	0.123	
23.565	35219	VB	1.131	1.492	

TOTAL HGHT= 2359900
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB167
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 395 FEB/17/85 23:19:50
 ID 1-1-1-85 1-1-50217-17 2ul
 8412056-02A Ret
 Run SP

RT	HEIGHT	TYPE	AR/H1	HEIGHT
0.254	2278068	SEH	0.117	37.261
0.398	1696918	DSHH	0.159	27.756
0.591	1356834	DSHR	0.130	22.193
0.774	15795	DTBV	0.066	0.258
0.915	31976	DTPV	0.082	0.523
1.102	14194	DTPV	0.083	0.232
1.441	118413	TPV	0.112	1.937
1.733	16002	TPV	0.124	0.262
2.001	23879	TVV	0.121	3.391
2.242	19267	TVV	0.134	0.315
2.668	1085	DTPV	0.133	0.018
2.956	1748	TPV	0.173	0.029
3.389	1924	TVV	0.160	0.033
3.634	4179	TVV	0.189	0.068
4.050	3394	TVV	0.204	0.056
4.829	1027	TPV	0.209	0.017
5.623	2005	BY	0.298	0.032
6.825	8979	VV	0.465	0.147
7.901	1614	VP	0.501	0.020
13.851	516496	PB	0.587	0.448

TOTAL HGHT= 6113800
 MUL FACTOR= 1.0000E+00

Sample Number
AB168

Organics Analysis Data Sheet
 (Page 1)

0168

Laboratory Name: Radian
 Lab Sample ID No: 4EU12056V03
 Sample Matrix: Water
 Data Release Authorized By: Z. Petrov

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-8-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
 Date Extracted/Prepared: —
 Date Analyzed: 12-14-84
 Conc/Dil Factor: 1:1 pH —
 Percent Moisture: 100%
 Percent Moisture (Decanted): —

*acc. MET
 5/10/85*

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	3 B
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AB168

Sample Number

AB168

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-26-84Conc/Dil Factor: 1000:1*all per E
5/10/85*

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
209-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u 2
206-44-0	Fluoranthene	10FK
92-87-5	Benzidine	50u
129-00-0	Pyrene	10FK
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10FK
117-81-7	bis(2-Ethylhexyl)Phthalate	10u 100 uT
218-01-9	Chrysene	10FK
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10FK
207-08-9	Benzo(k)Fluoranthene	10FK
50-32-8	Benzo(a)Pyrene	10FK
193-39-5	Indeno(1, 2, 3-cd)Pvrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1) Cannot be separated from diphenylamine

Sample Number
AB 168

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000 ml : 5 ml

*all met
5/10/85*

CAS Number ug/lbr ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

v_s 1000 ml or W_s _____ v_i 500 uL v_t 2 uL

0171

SAMPLE NUMBER:
AB168

ORGANICS ANALYSIS DATA SHEET
(PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CLASS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/KG
1	111-71-7 HEPTANAL	ABN	337	} TP 41 37 30 134 16
2	2233-00-3 1-PROPENE, 3, 3, 3-TRICHLORO-	ABN	436	
3	1071-81-4 HEXANE, 2, 2, 5, 5-TETRAMETHYL-	ABN	449	
4	29538-71-0 CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	525	
5	931-17-9 1,2-CYCLOHEXANEDIOL	ABN	557	
6	1,2-CYCLOHEXANEDIOL	ABN	651	2
7	1,2-CYCLOHEXANEDIOL	ABN	990	4
8	PHENANTHRENE	ABN	1209	13
9	PHENANTHRENE	ABN	1217	8
10	30684-06-1 BUTYLAMINE, 4-PHENYL-, HYDROCHLORIDE	ABN	1553	} TP 8 8 9 15
11	62185-56-2 HEXANE, 2, 5, 5-TRIMETHYL-	ABN	1652	
12	55760-14-0 CYCLOBUTANEACETONITRILE, 1-METHYL-2-(1	ABN	1778	
13	2416-30-2 2-PROPANOL, 1-(4-TERT-BUTYLPHENOXY)-	ABN	1910	
14	768-32-1 SILANE, TRIMETHYLPHENYL-	ABN	2029	

No compounds detected ✓

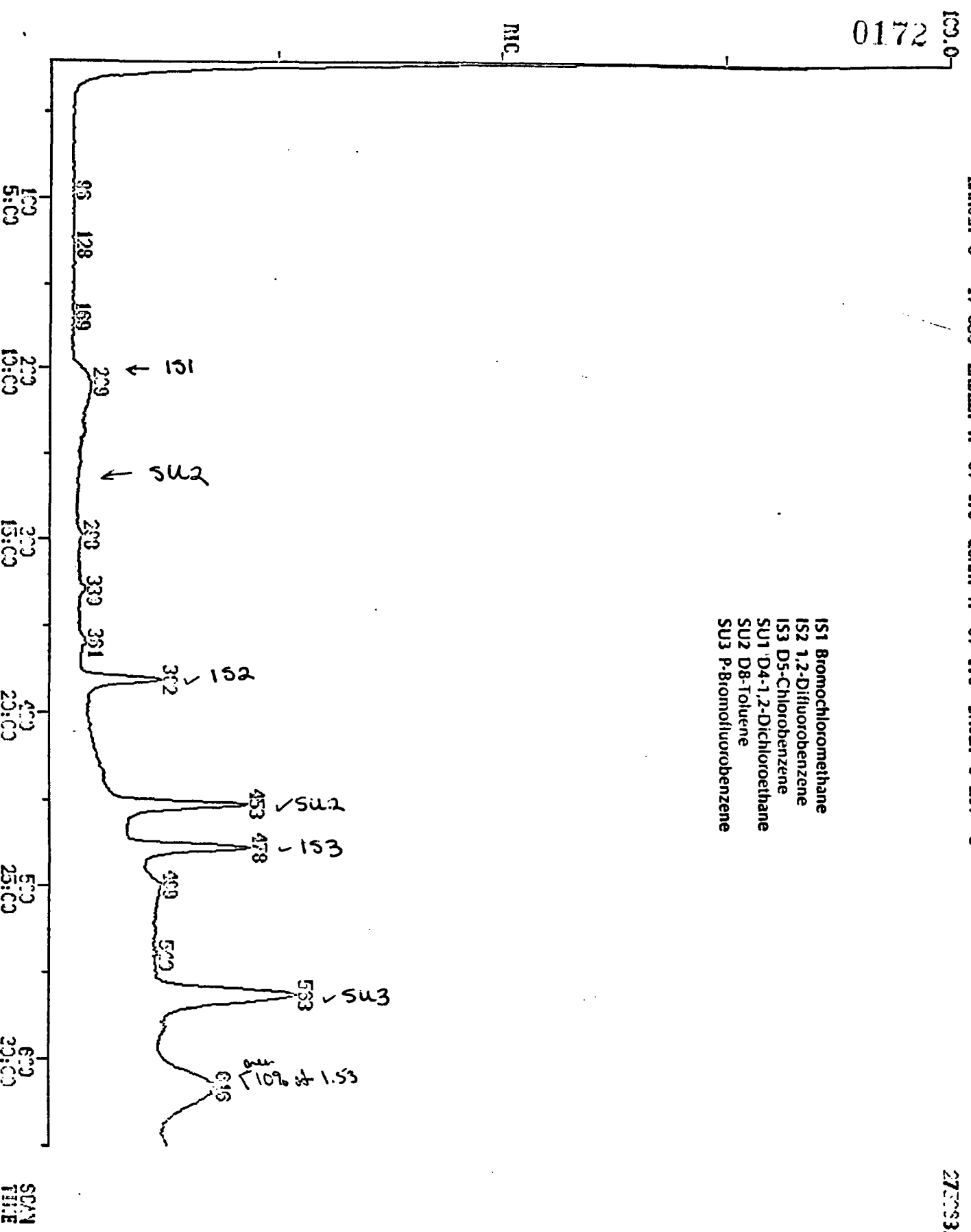
acc for ET 5/10/85

12/14/84 16:05:03
 SAMPLE: F4.D.EPA.ABIC8.C9.V.1:1.MS
 RANGE: 0 1.659 LABEL: N 0.4.0 QUANT: A 0.1.0 BASE: U 20. 3

CALL: F4CAL 01

272933.

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4EU12055V03.TI

12/14/84 16:05:00

SAMPLE: F4,D,EPA,AB168,00,V,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	2-BUTANONE
8	1,1,2,2-TETRACHLOROETHANE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	206	10:10	1	1.000	A7BV	4313.	50.000 UG/L	12.88
2	67	254	13:12	1	1.232	A7DB	66.	1.249 %	0.32
3	114	391	19:03	3	1.000	A 83	65106.	59.000 UG/L	12.89
4	117	478	23:54	4	1.000	A 83	71621.	59.000 UG/L	12.89
5	93	453	22:39	4	0.948	A 83	95019.	100.131 %	25.81
6	95	552	23:05	4	1.176	A 83	81032.	100.009 %	25.95
7	43	236	11:43	3	0.619	A7BV	6591.	31.305 UG/L	8.09
8	83	433	21:39	4	0.936	A7BV	3554.	4.571 UG/L	1.18

12/14/81 16:05:03 + 11:48
SAMPLE: F4.D, EPA, AB158, C3, V. 1:1.1.MS
EMULCED (S 15B 21 01)

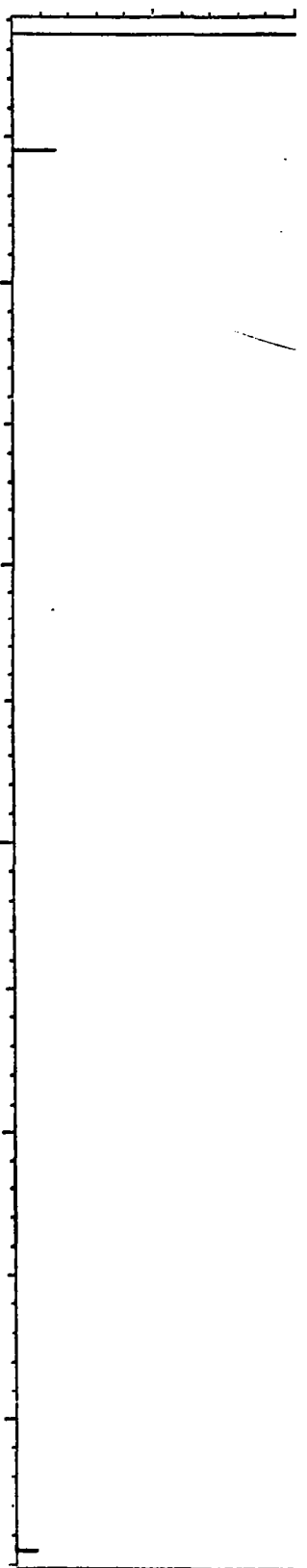
CALL: FACAL 0 1 RIC: 1033

1033
SAMPLE

0174

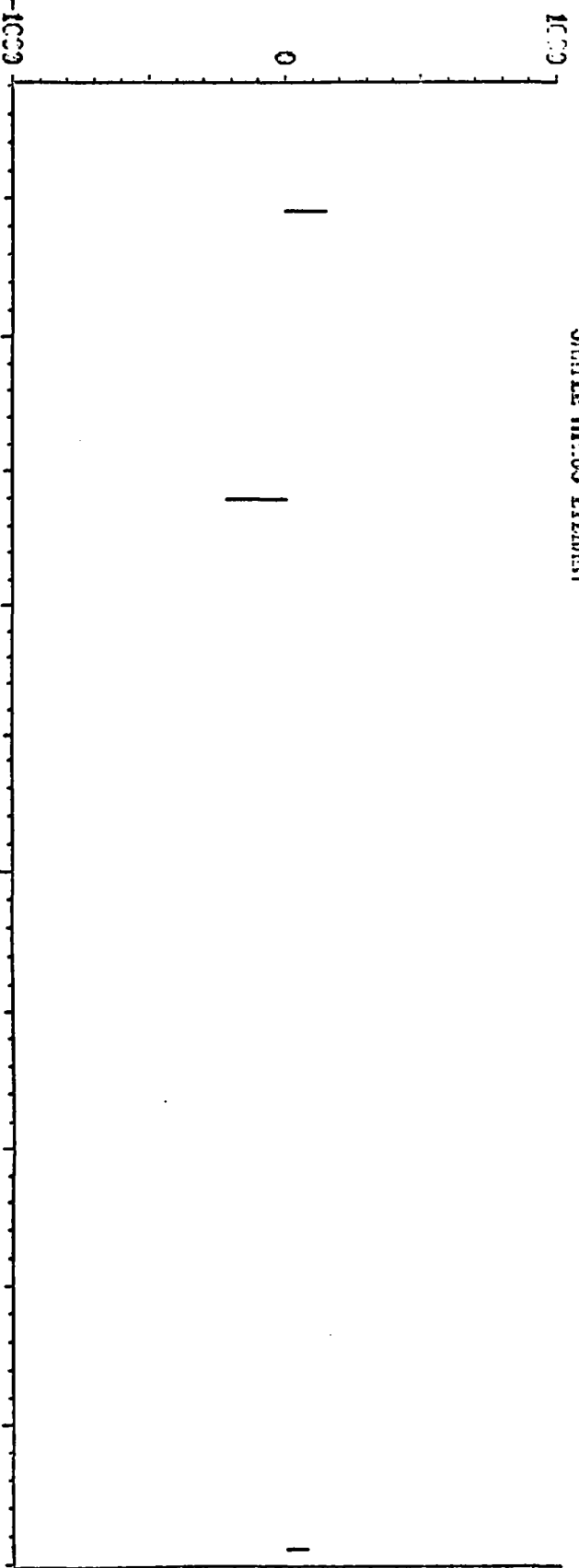
01.H8
1033

H WT 150
R BK 43
L WTR 1
FI 15
TT 733



2-DUTANONE

SAMPLE MEMS LIBRARY



1033
I/E



SECOND SPECTRUM
100.0

0175

50.0

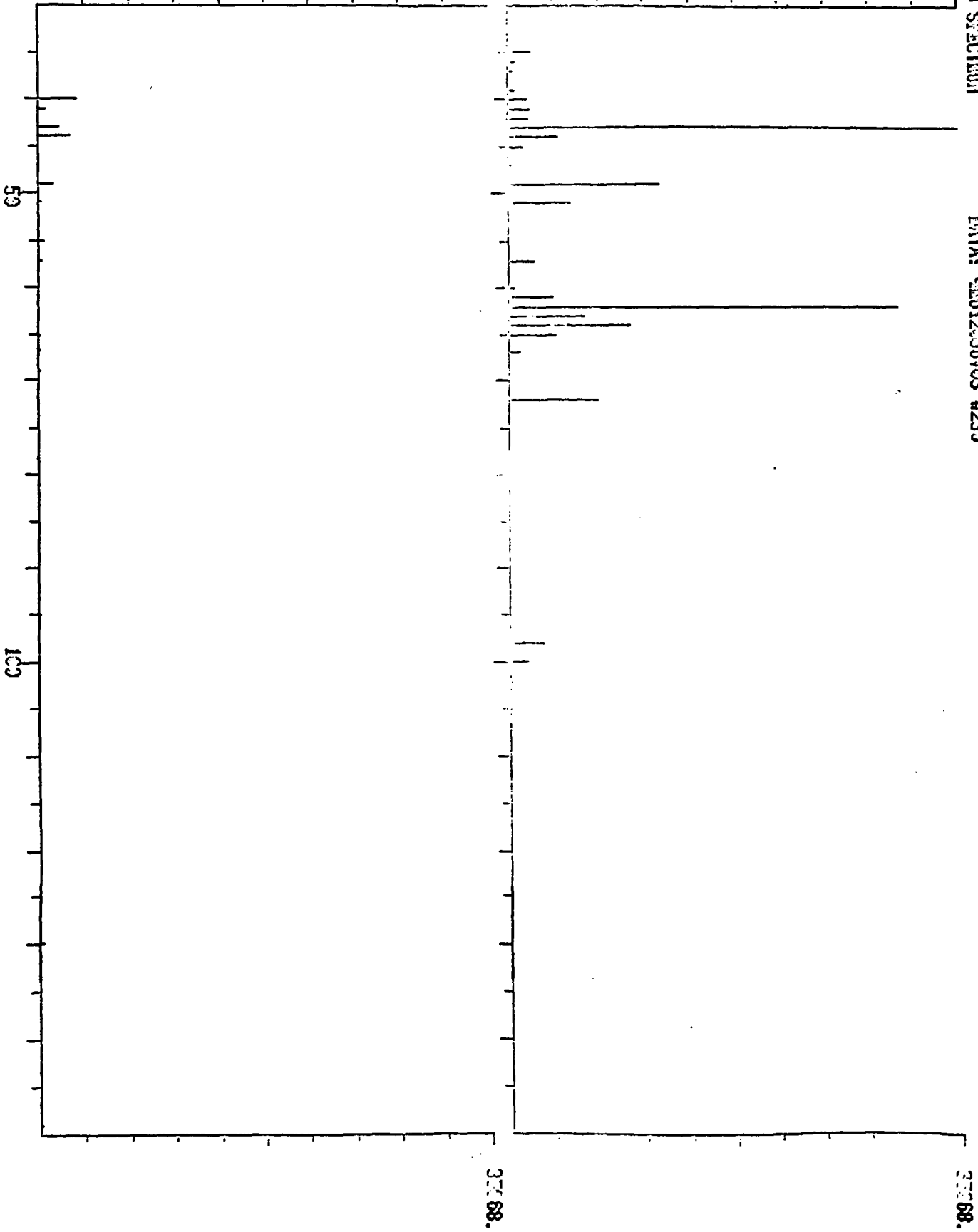
50.0

1/E

10/15/84 6:32:00 + 10:48
SAMPLE: F4.D. VER. COIC9.C9.V.MA:FA.I.MAS
DATA: 4E112358703 B235

CALL: FSCAL 01

RIC: 135679. / 10375.



50

100

37688.

37689.

LIBRARY OF CONGRESS
12/14/84 16:05:03 + 21:39
SAMPLE: F4.D.EPA.AB168.C9.V.1:1.NAS
EMULSION (S 15B 2H 0T)

CALL: FACAL 0 1 RIC: 553.

0176

SAMPLE

1000

1,1,2,2-TETRACHLOROETHANE

C2.H2.C14

1000

U WT 155
D PK 83
PACIK 3
HI 34
FWS 676

SAMPLE MIXUS LIBRARY

1000

0

-1000
M/E

60

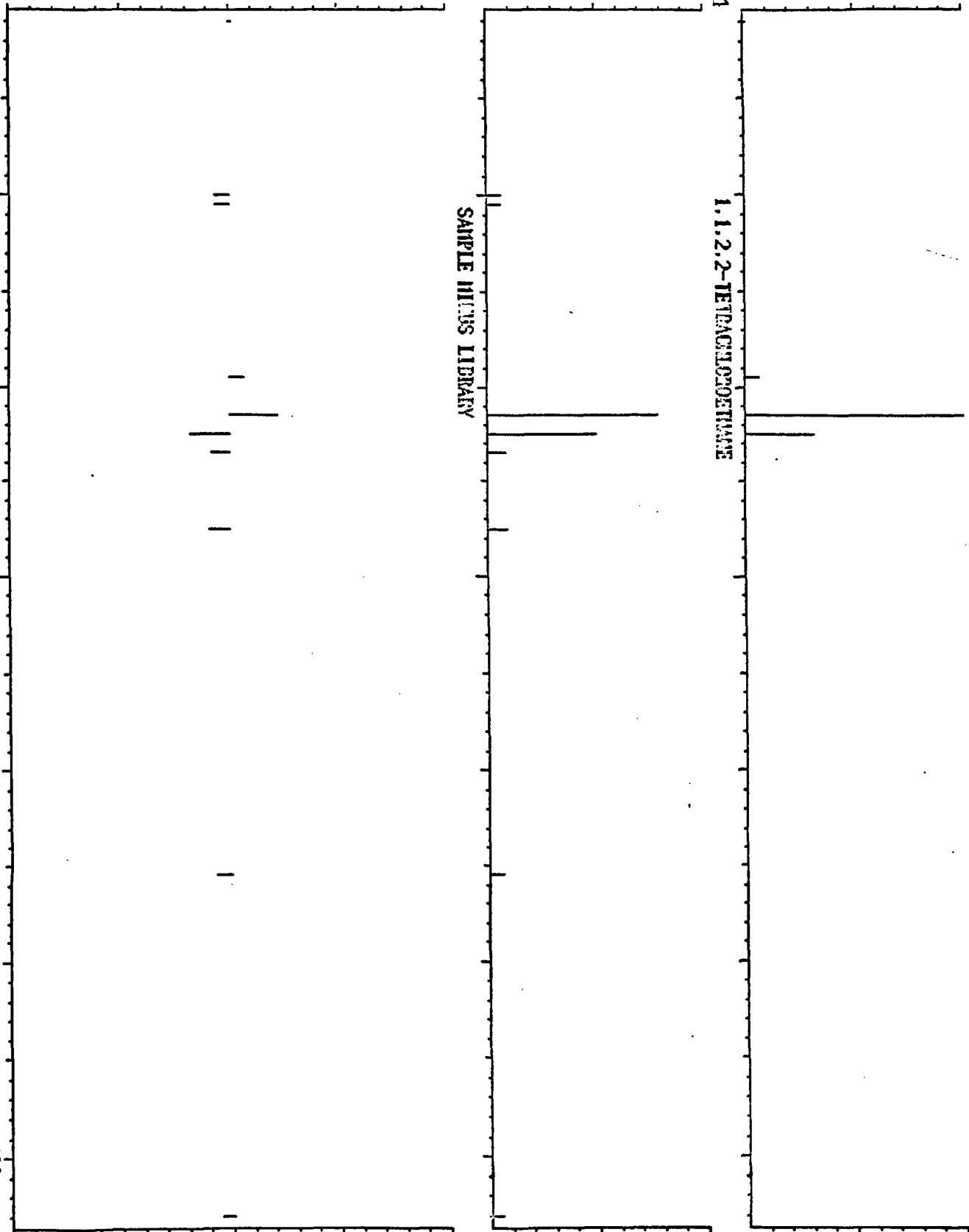
80

100

120

140

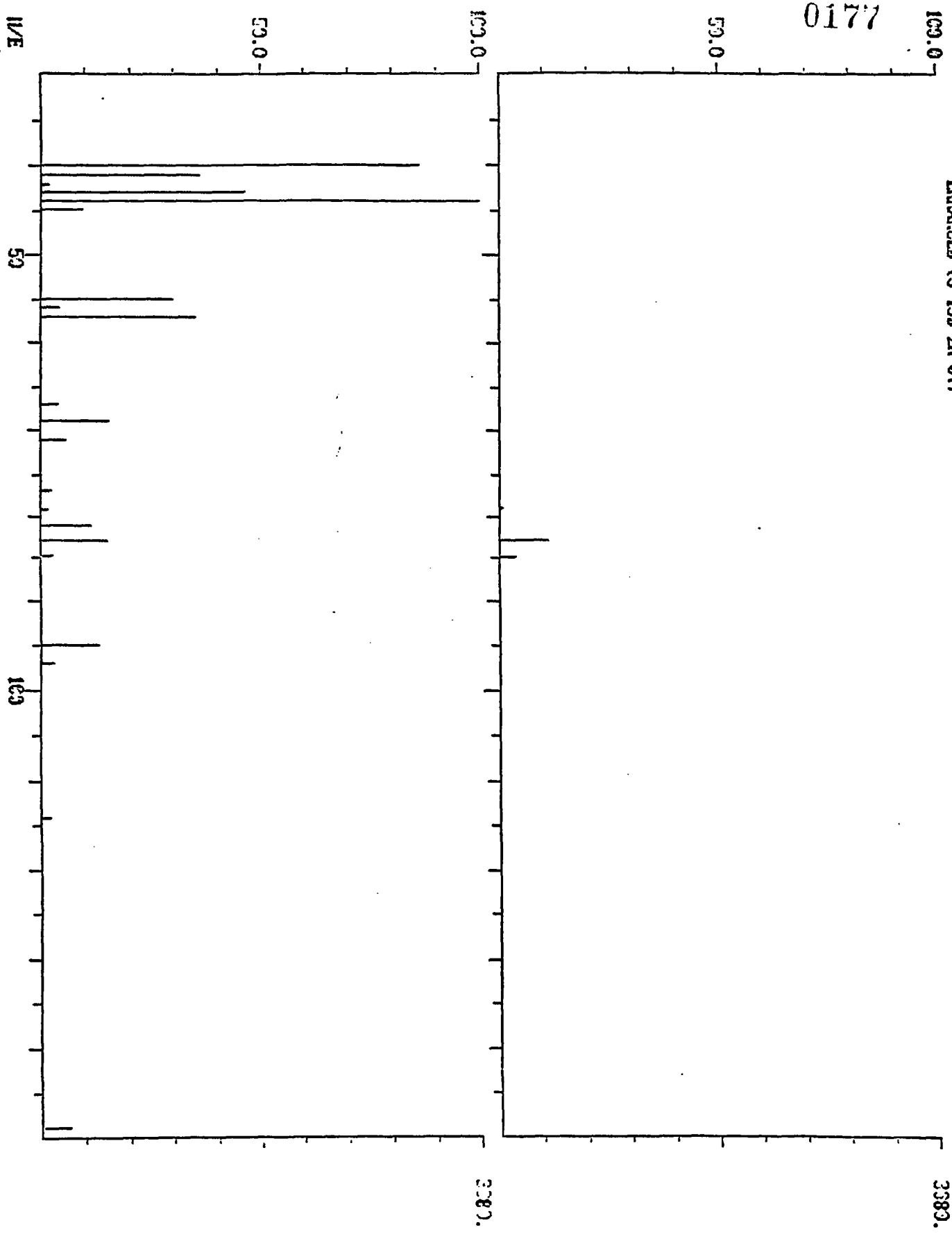
160



12/19/81 16:05:03 + 21:39
SAMPLE: F4.D, EPA, ABIG8.C3, V. 1:1.1, MS
EQUATED (S 158 21 01)

CALL: FACAL 01 RIC: 530 / 1530.

0177



0178

100.0

RIC

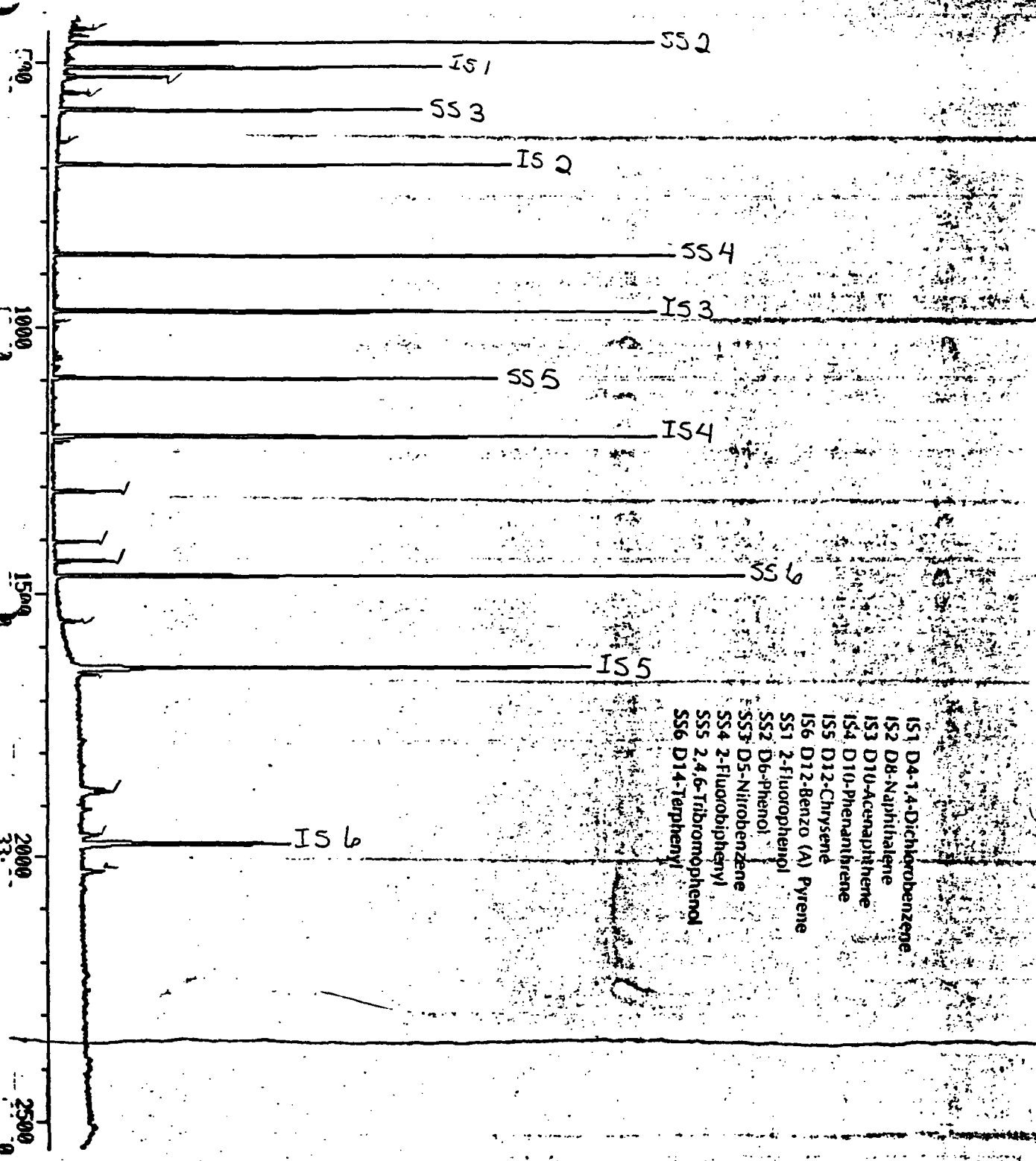
RIC
12/26/84 13:27:08
SAMPLE: AB168
RANGE: 6 1.2550

1:12/10/84 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

DATA: 2EJ120560C03 #1
CALL: FZCAL #1

SCANS 200 10 250

414720



SCAN

SAMPLE ID. AB168 1:1,12/10/84 FROM DISK# 0
LAB ID. 2EU12056C03 PROCESSED 00/00/00
CLIENT EPA ANALYST IK
DATE INJECTED 12/26/84 13:27:00 VERIFIED BY
STD. ID. CAL DIL. FACTOR 1.00

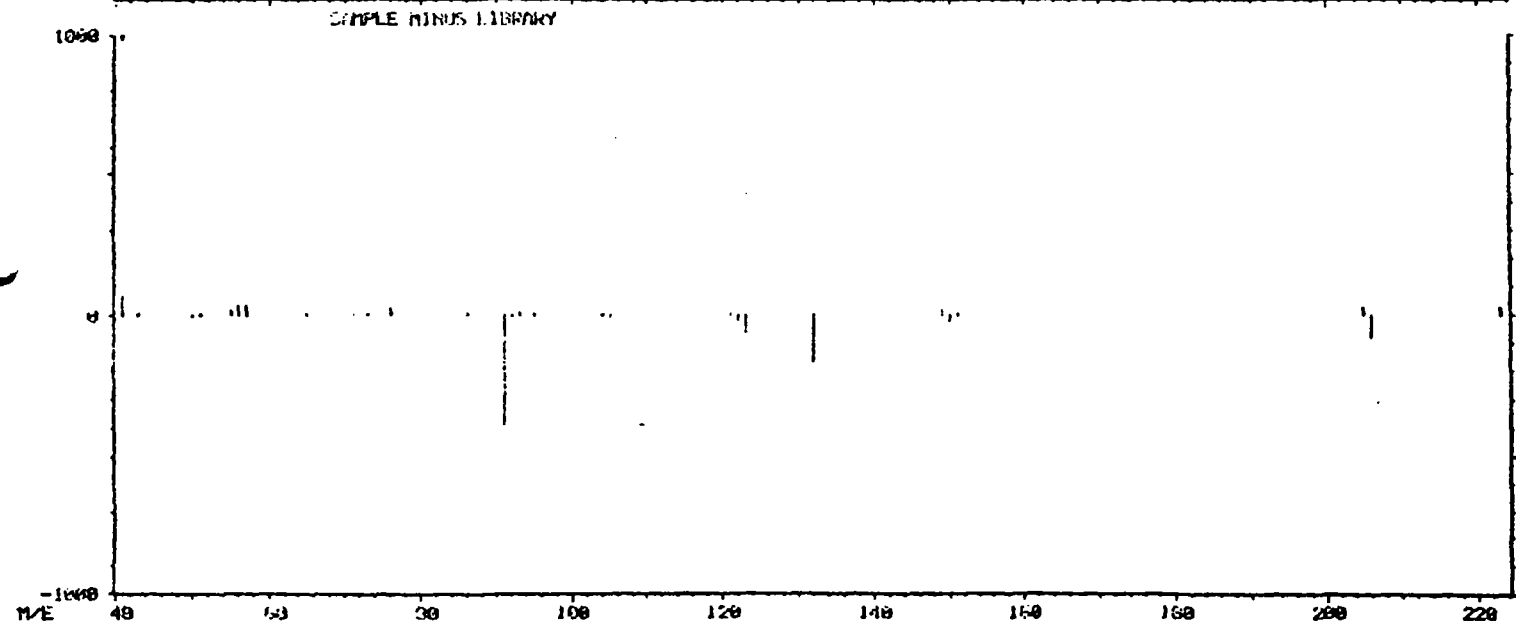
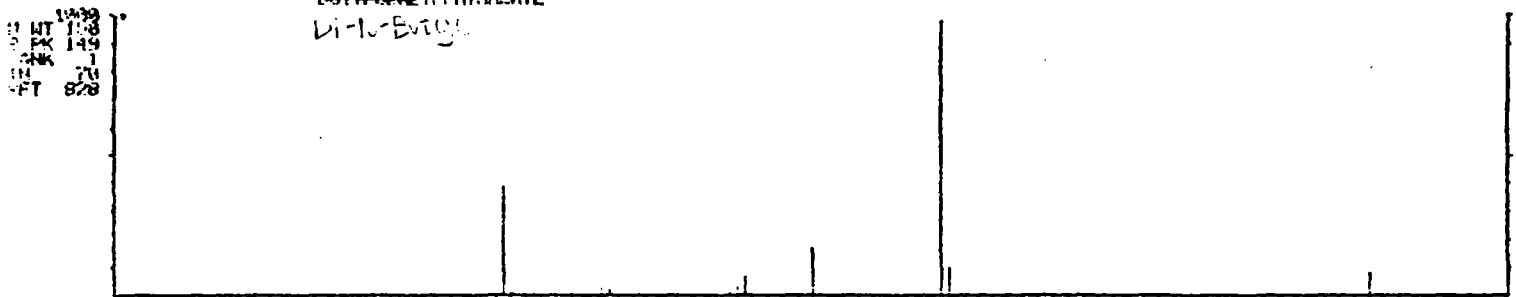
EN	SCAN#	COMPOUNDS	AMOUNT	AREA
13	1310	DI-N-BUTYLPHTHALATE	7.3 UG/ML	43647
14	1403	FLUORANTHENE	4.1 UG/ML	22784
15	1440	PYRENE	5.4 UG/ML	28881
16	1637	BENZO(A)ANTHRACENE	6.2 UG/ML	32422
17	1644	CHRYSENE	6.6 UG/ML	34713
18	1869	BENZO(B)FLUORANTHENE	3.9 UG/ML	19568
19	1875	BENZO(K)FLUORANTHENE	6.4 UG/ML	34970
20	1960	BENZO(A)PYRENE	4.4 UG/ML	19392

0130

LIBRARY SEARCH
12/26/84 13:27:00 F 21:00
SAMPLE: 08163 1:1,12/10/84
ENHANCED (S 158 2N 0T)

DATA: 2811285003 81318
CALI: F7CAL # 1

BASE ME: 149
KIC: 23775.

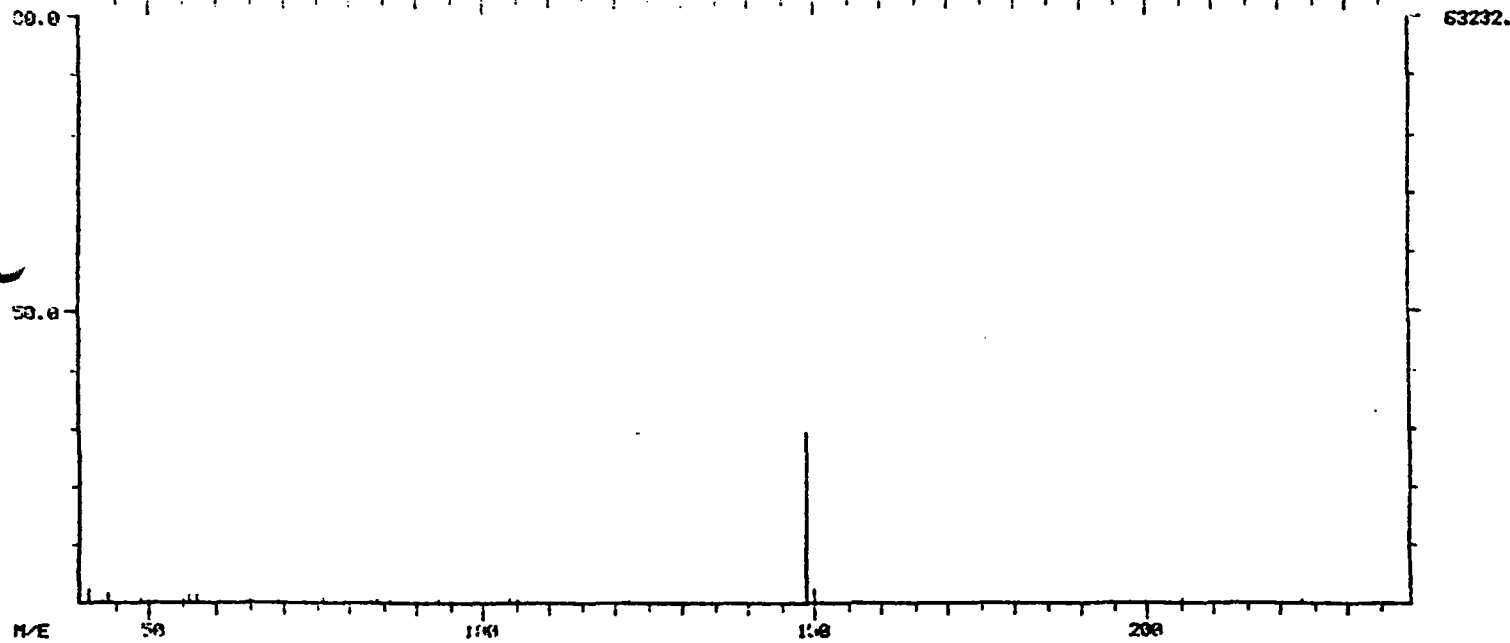
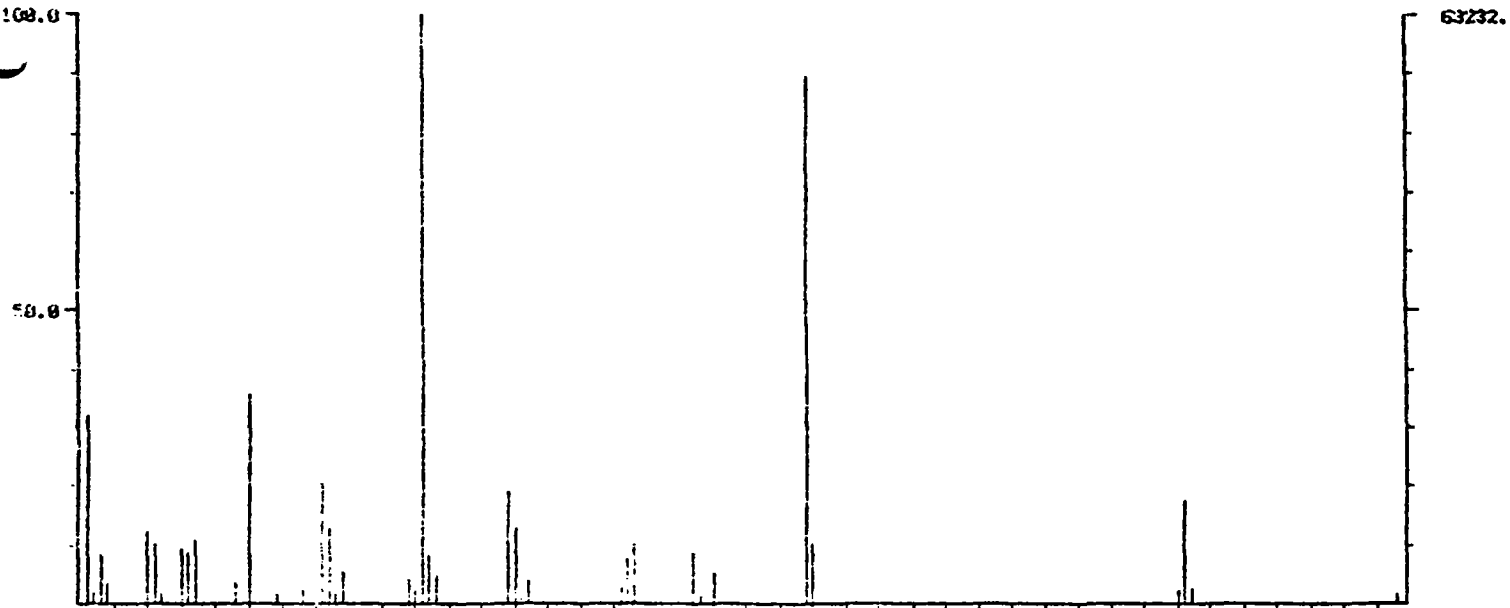


DUAL MASS SPECTRUM
11/23/84 08:30:00 4:00:00
SAMPLE: F2.D.CAL, 66401.00, C:\NA\NA.NAD
DATA: 2E012656000 01010

DATA: EPSTD 01504
QNT1: F2CAL 01

CASE: N/E: 01/ 149
PIC: 016927.7 36559.

SECOND SPECTRUM



m/e 50 114 150 200

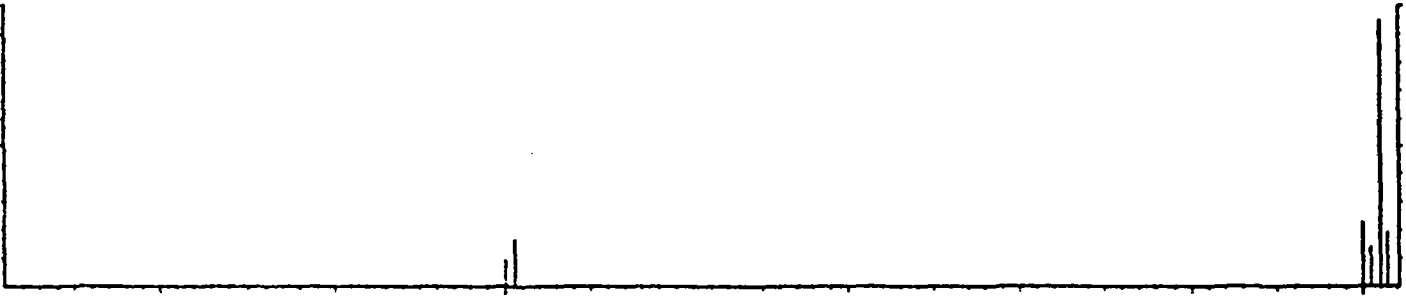
LIBRARY SEARCH
12/20/84 13:27:00 + 23:23
SAMPLE: AB168 1:1,12/10/94
ENHANCED (S 158 2N R1)

DATA: 2FU12856D83 #1403 BASE M/E: 202
CALL: F2CAL 6 1 RIC: 15567.

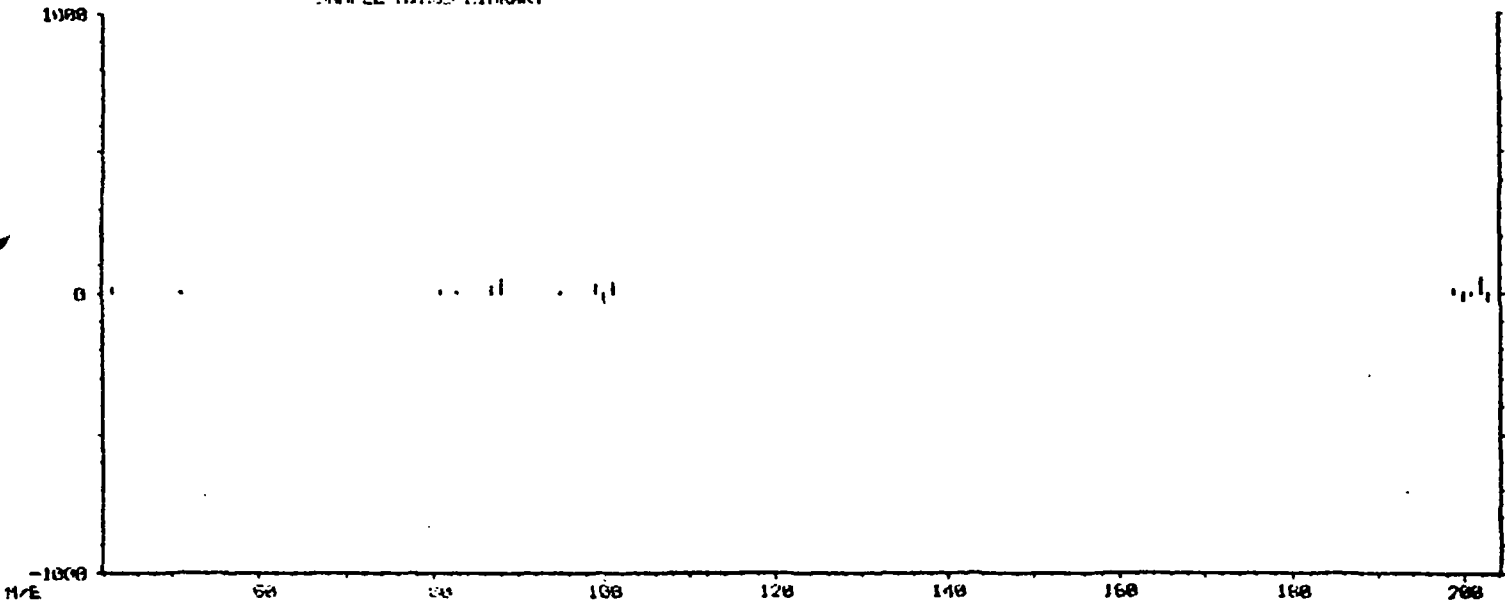


FLUORANTHENE

1000
940
880
820
760
700
640
580
520
460
400
340
280
220
160
100
40
0
-40
-80
-120
-160
-200
-240
-280
-320
-360
-400
-440
-480
-520
-560
-600
-640
-680
-720
-760
-800
-840
-880
-920
-960
-1000



SAMPLE MINUS LIBRARY

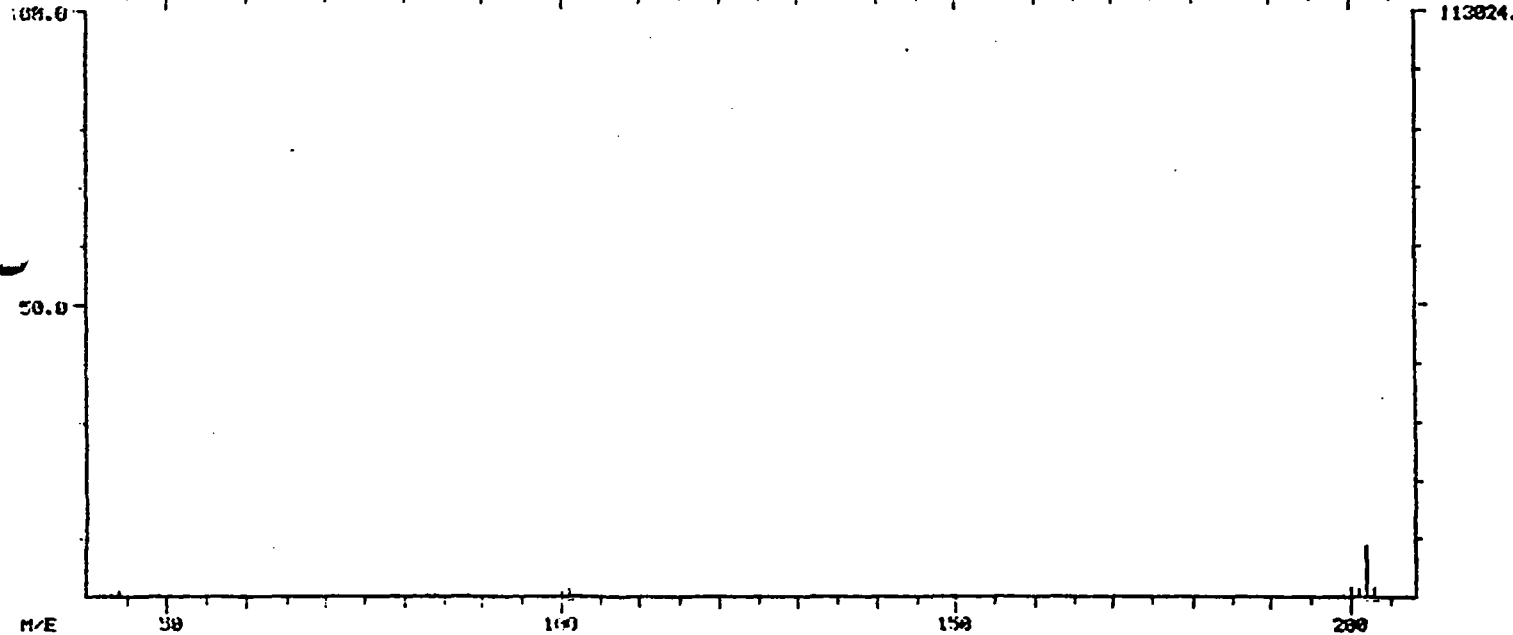
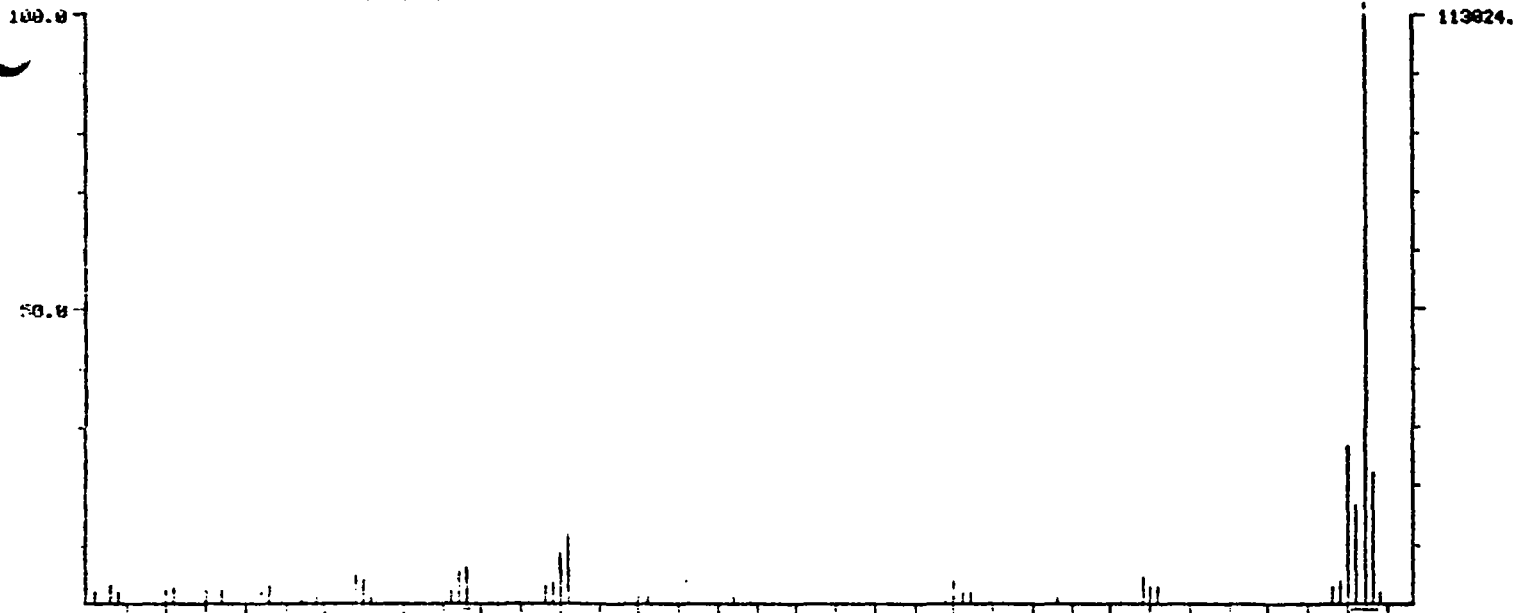


DUAL MASS SPECTRUM
11/19/84 4:38:08 + 13:66
SAMPLE: F2.D, CALI, 14834, 40.C, 11A, NA, HAS
DATA: 2EJ12006083 11483

DATA: EPSTD 81306
CALI: F2CAL #1

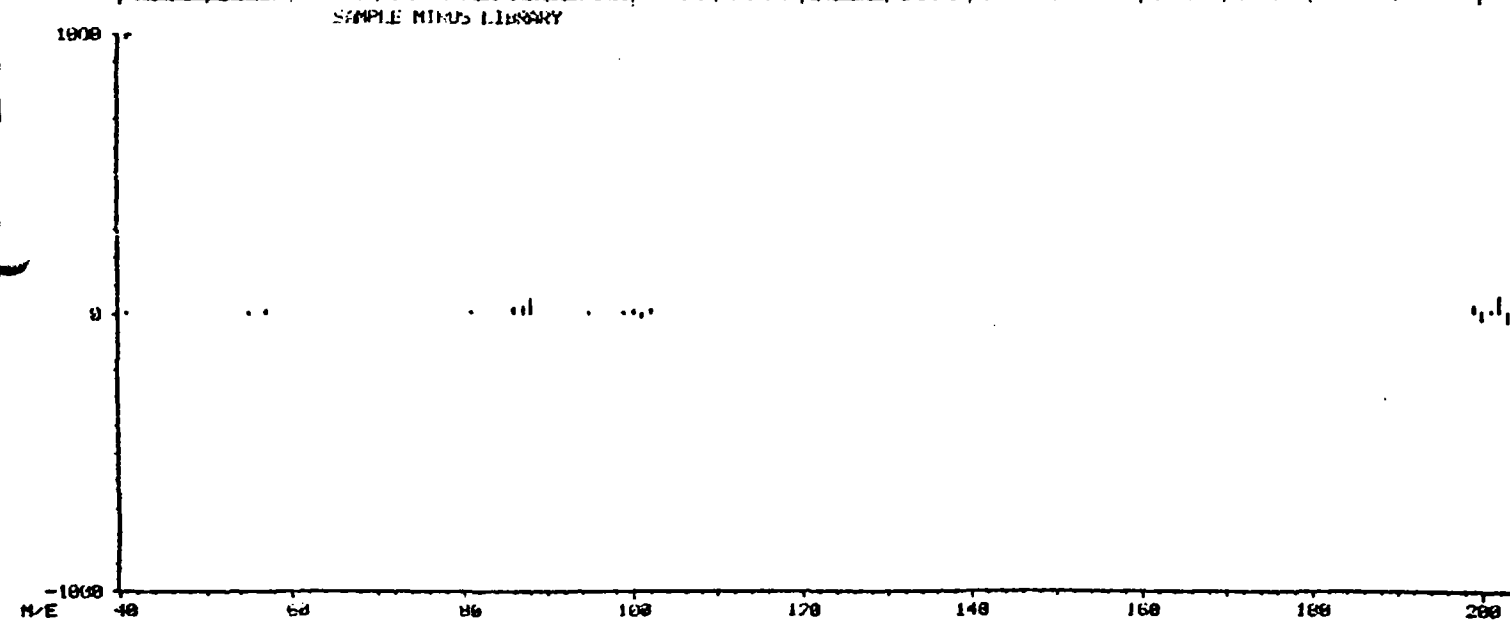
DATE M/F: 282/ 282
RIC: 008223./ 21343.

SECOND SPECTRUM



LIBRARY SEARCH
12/26/84 13:27:00 + 24:00
SAMPLE: AB160 11/17/10/84
ENHANCED (S 158 2N RT)

DATA: 2EU1205GC03 01440 PAGE N/E: 202
CAL: F2CAL # 1 RIC: 21535.



1000
N WT 100
PK 202
RANK 1
IN 69
FT 903

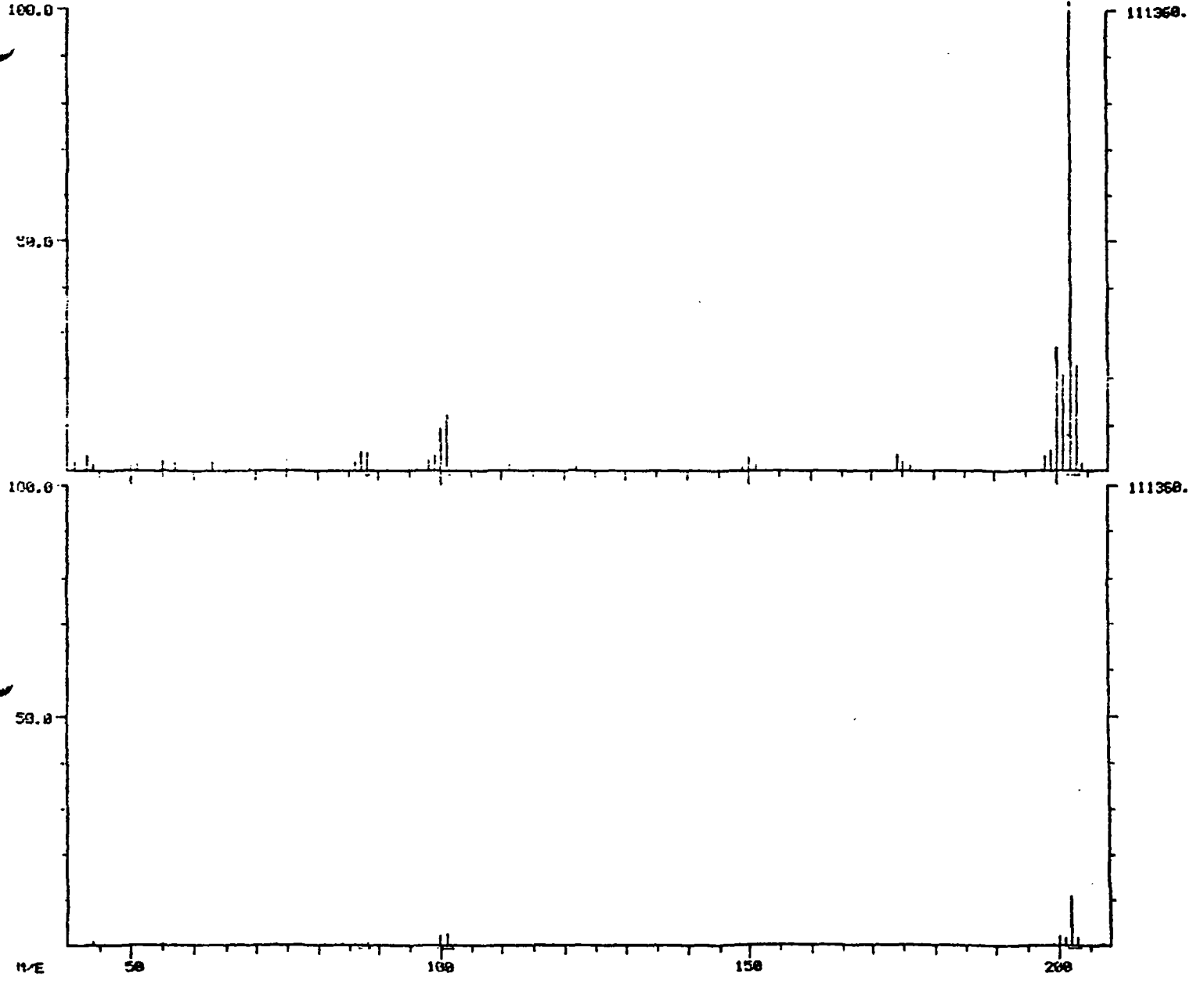
1000
-1000
N/E 40 60 80 100 120 140 160 180 200

DUAL MASS SPECTRUM
11/09/04 4:38:00 + 23:42
SAMPLE: F2.D, CAL: 100000.00, C: NO: NO, NRS
DATA: 2E012050003 #1440

DATA: EPSTD #1422
CAL: F2CAL #1

BASE P/E: 202/ 202
RIC: 205183.7 27775.

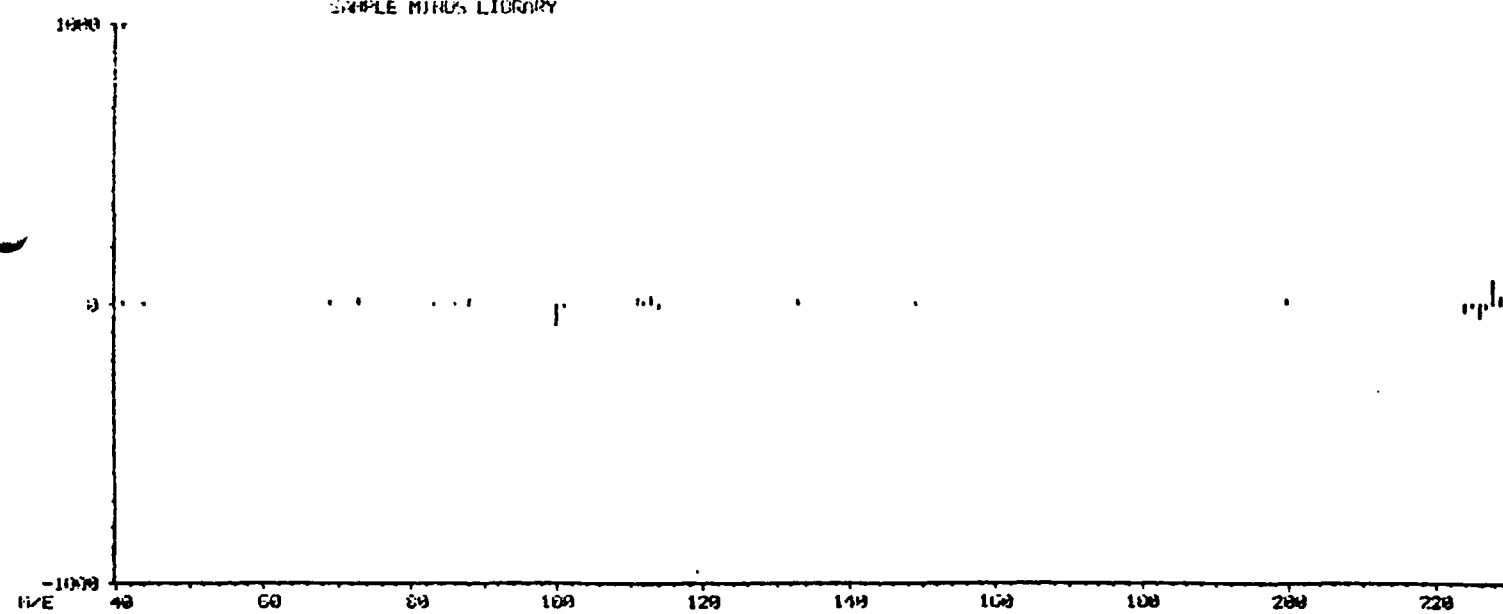
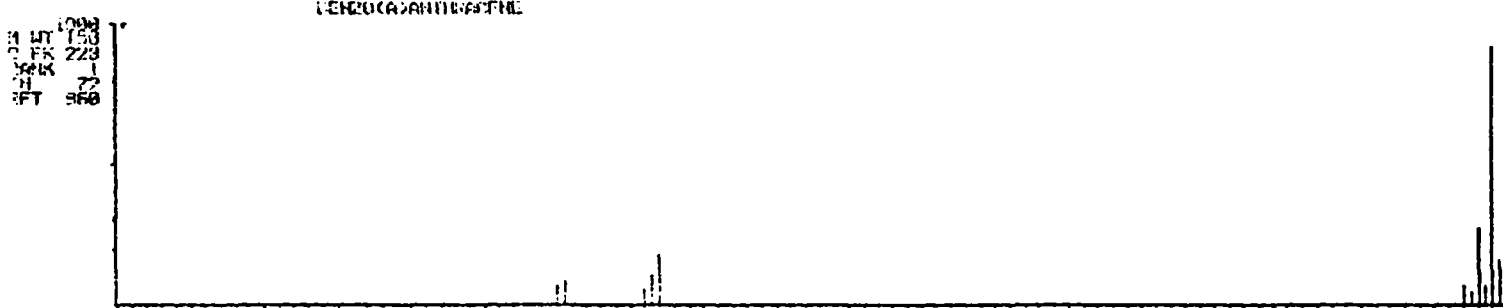
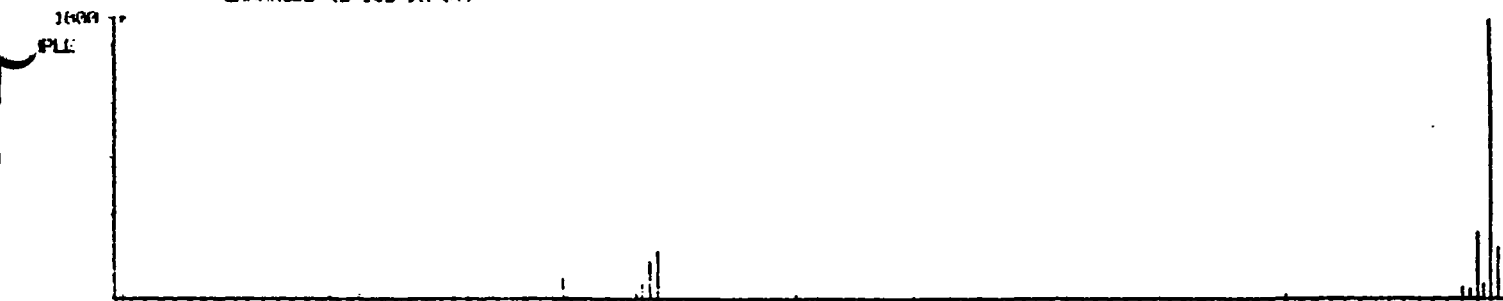
SECOND SPECTRUM



0186

LIBRARY SEARCH
12/26/84 13:27:00 + 27:17
SAMPLE: AG168 1:1,12/10/84
ENHANCED (S 158 2N 0T)

DATA: 2E117056C03 #1637 BASE M/E: 228
CAL: FZCAL # 1 RIC: 19103.

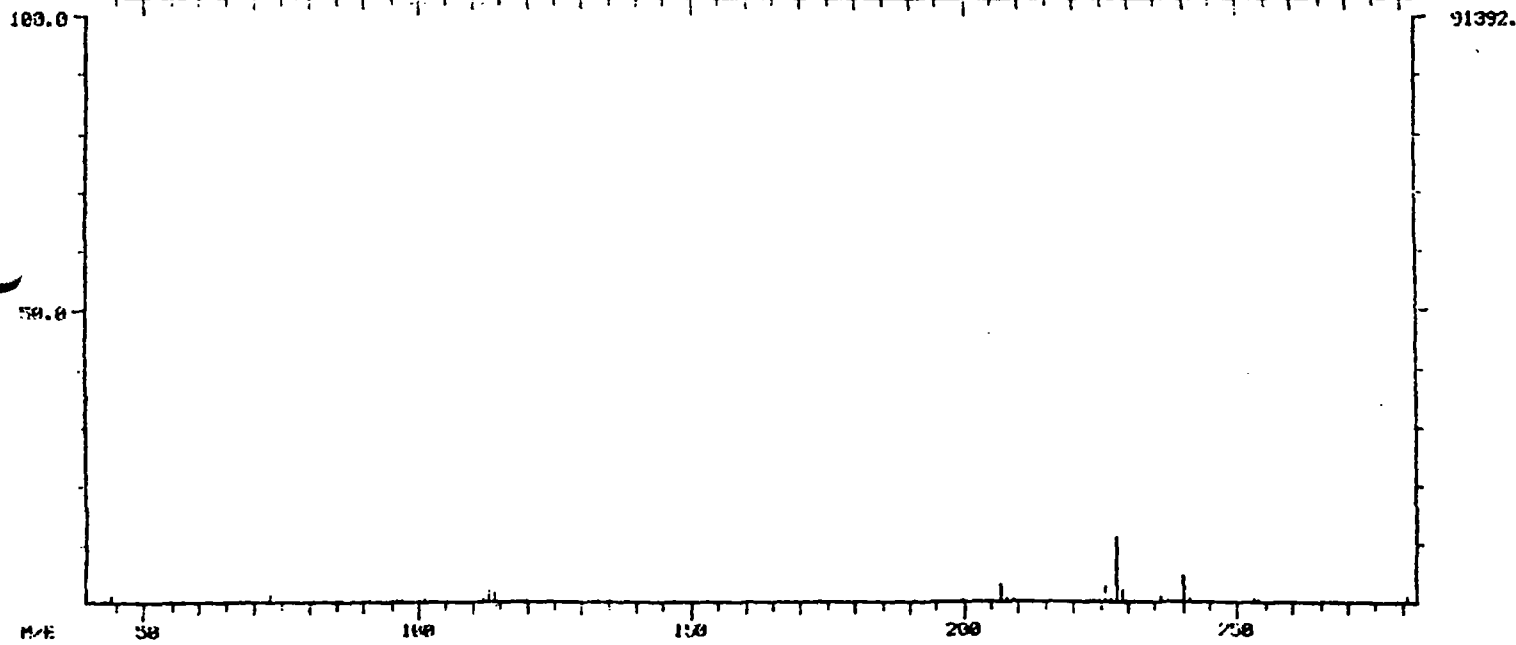
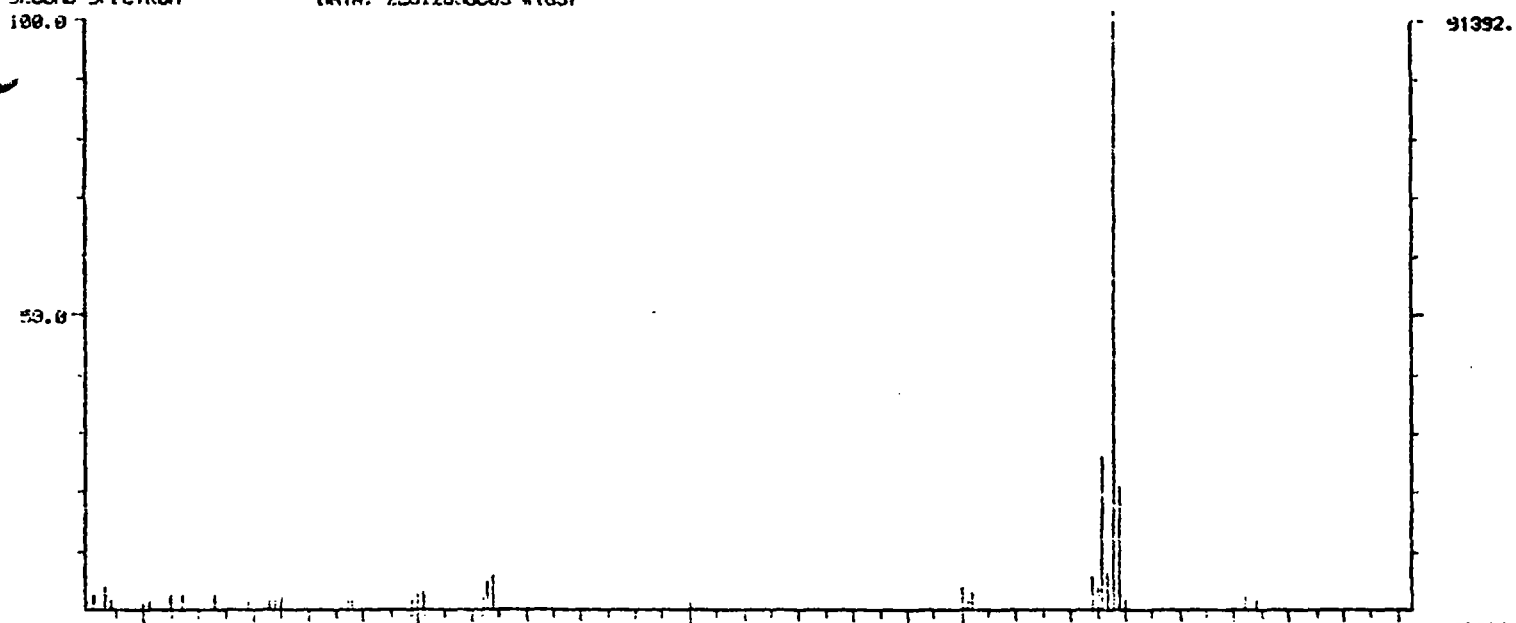


DUAL MASS SPECTRUM
11/09/04 4:08:00 + 20:56
SAMPLE: F2,0,DAL,10000,PA,C,10:NA,NAS
DATA: 2E12056003 41637

DATA: EPSTU 81615
CAN 1: F200L 81

BASE PE: 228/ 278
R1C: 107871.7 33423.

SECOND SPECTRUM
100.0

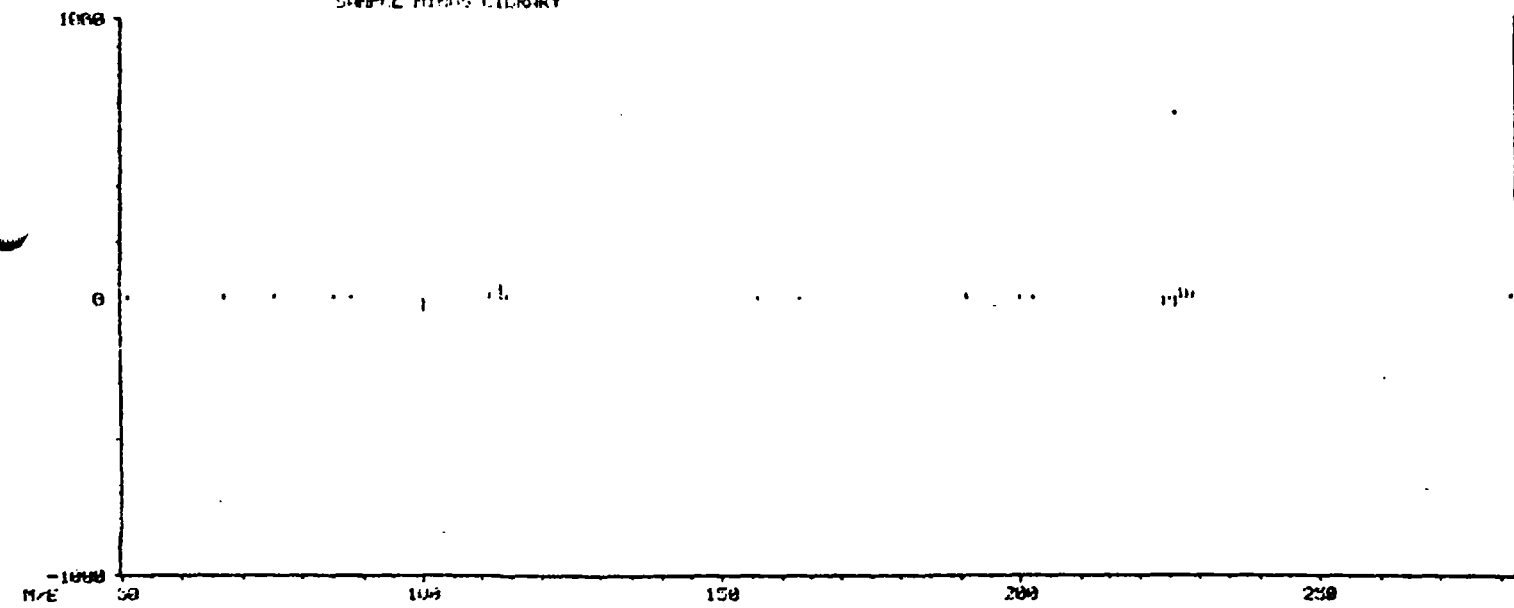
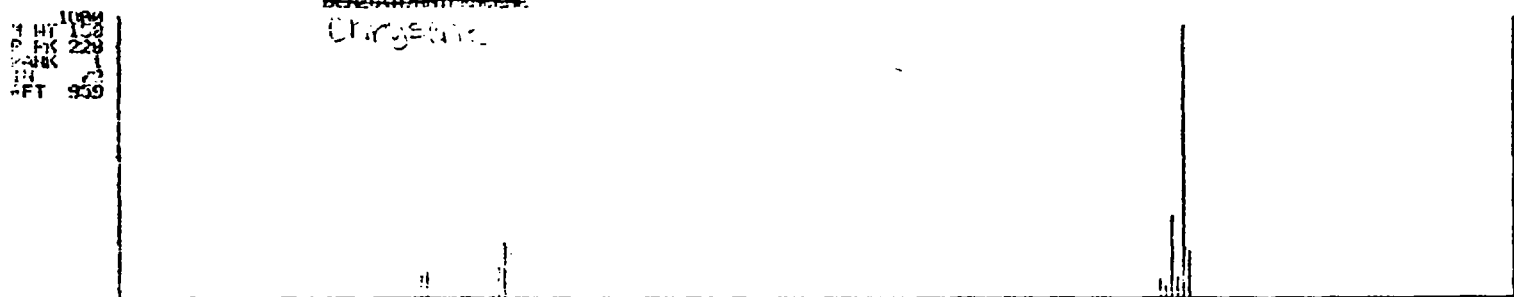


m/e 50 100 150 200 250

LIBRARY SEARCH
12/26/84 13:27:00 + 07:24
SAMPLE: 08163 1:1,12/19/84
ENHANCED (S 100 IN 01)

DATA: 26U12656C03 #1644
CALL: F200E # 1

BASE M/E: 220
R/C: 19379.



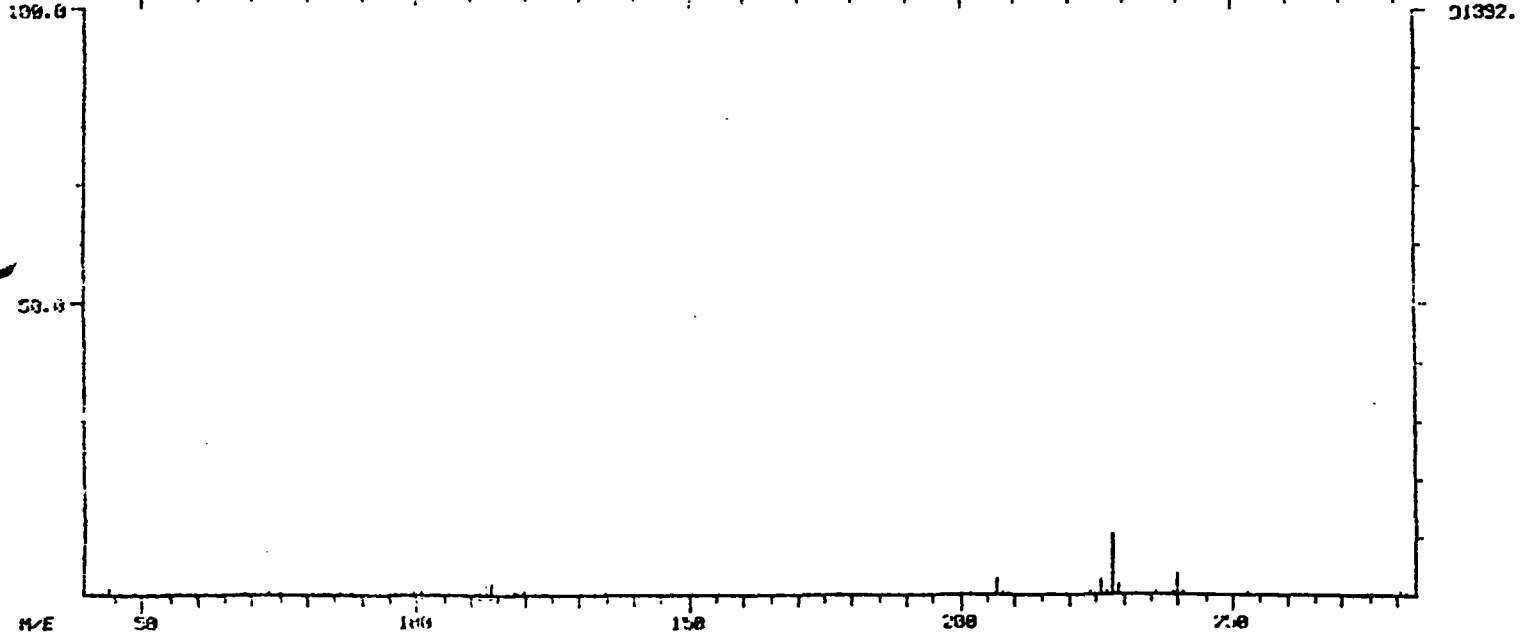
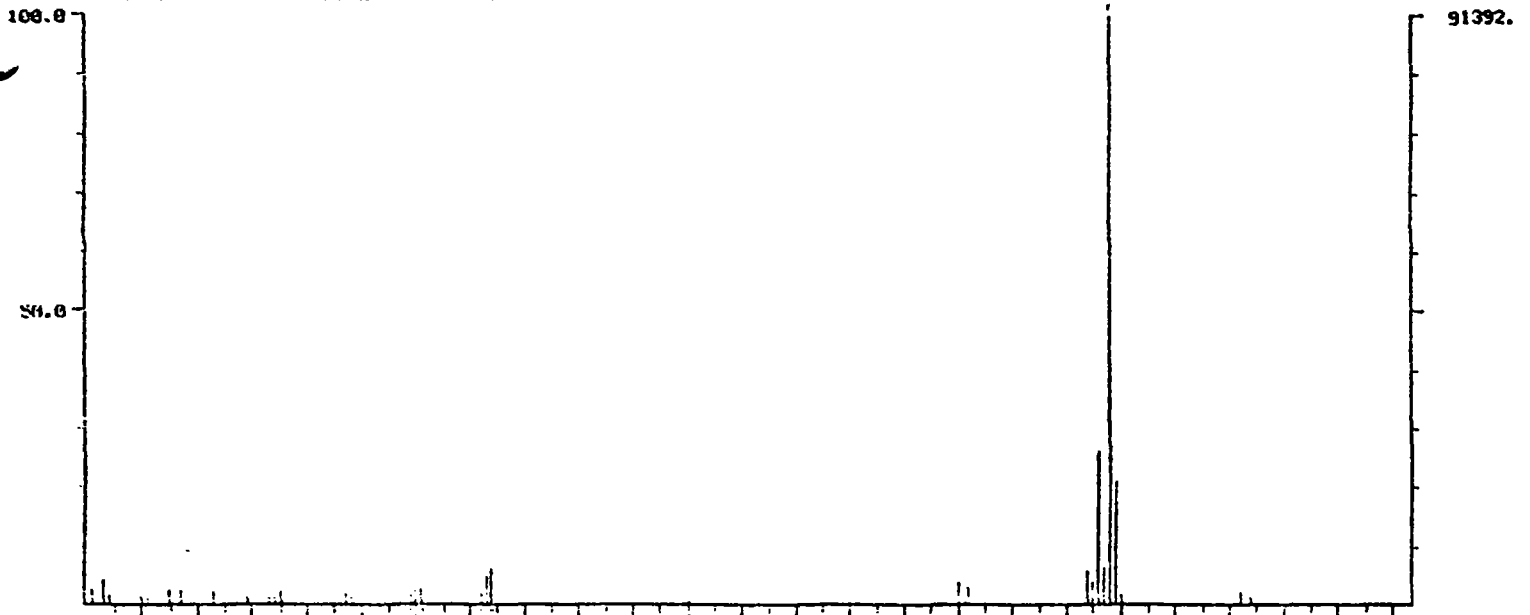
M/E 50 100 150 200 250

DUAL MASS SPECTRUM
11/20/84 14:00:00 + 26:56
SAMPLE: F2.D. (GL) (RSCA) (R.C.HA) (NA) (NS)
DATA: 250170L3003 #1644

DATA: EPSTD #1616
CAL1: F2CAL #1

BASE MF: 228/ 228
RIC: 137871.7 46539.

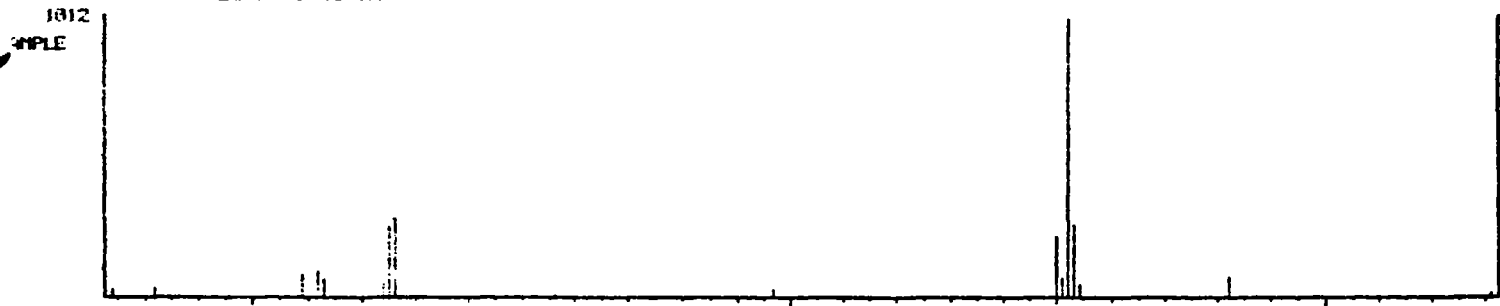
SECOND SPECTRUM



m/e 50 100 150 200 250

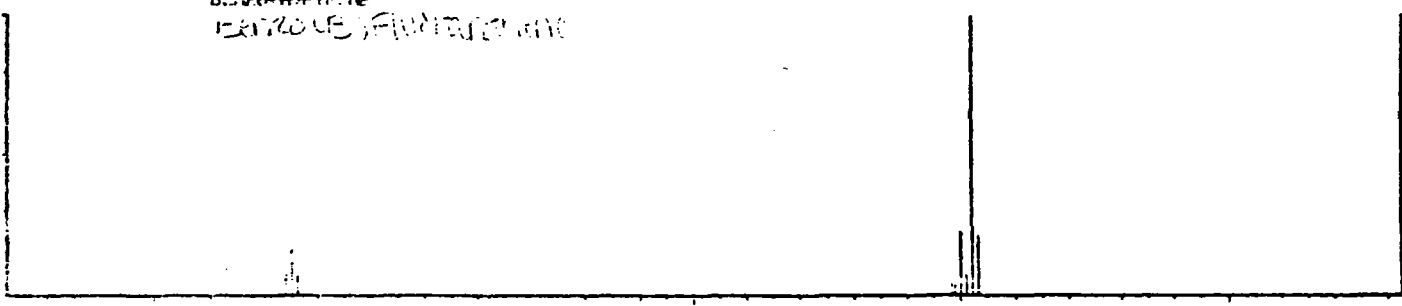
LIBRARY SEARCH
12-25-84 13:27:40 6-11-84
SAMPLE: AB169 1-1-12-10224
OBTAINED (S 158 31 01)

DATA: 2EUI2056003 #1669 MASS M/E: 252
CALI: F2CAL #) RIC: 0663.

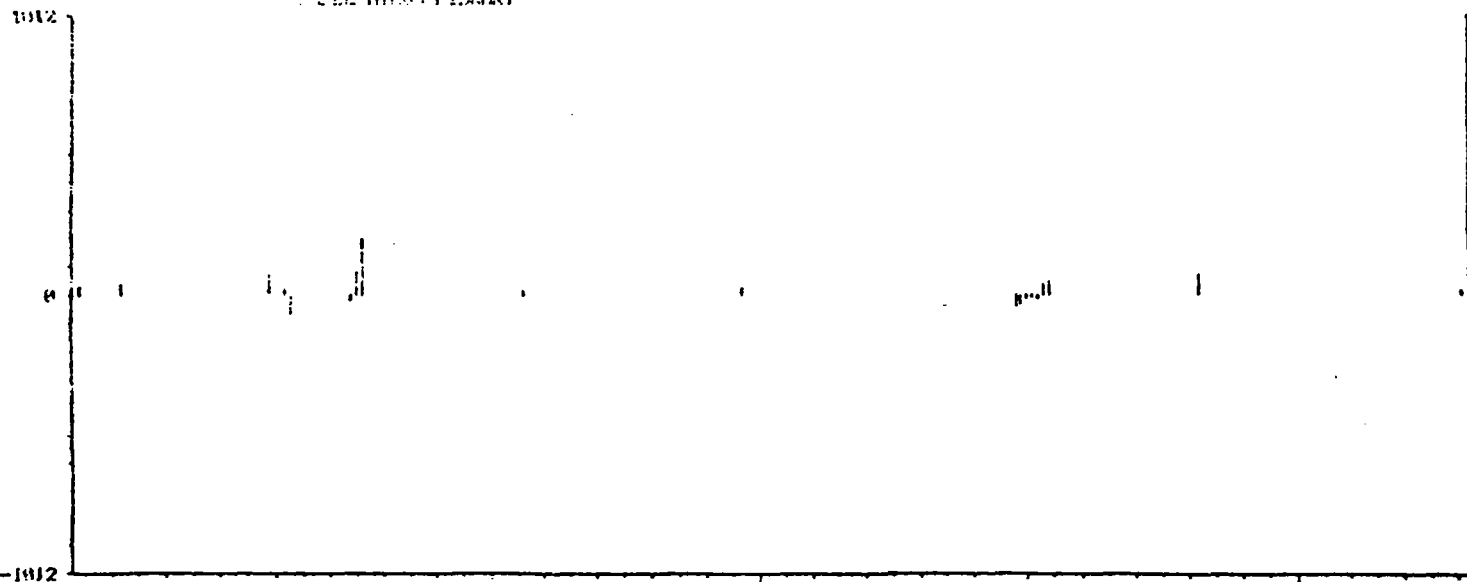


LIBRARY MATCH
BENZOLE (FURNACE) 100

1012
MASS
M/E
252
1
25
873



LIBRARY MATCH

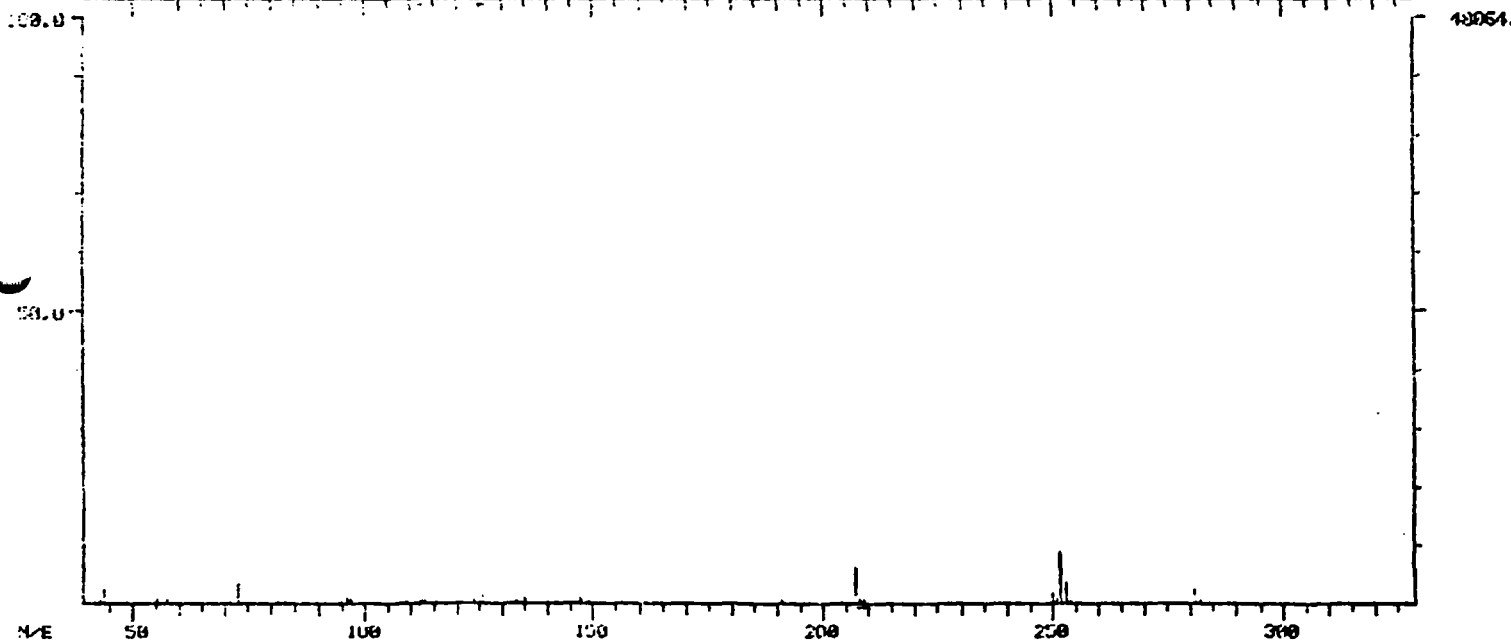
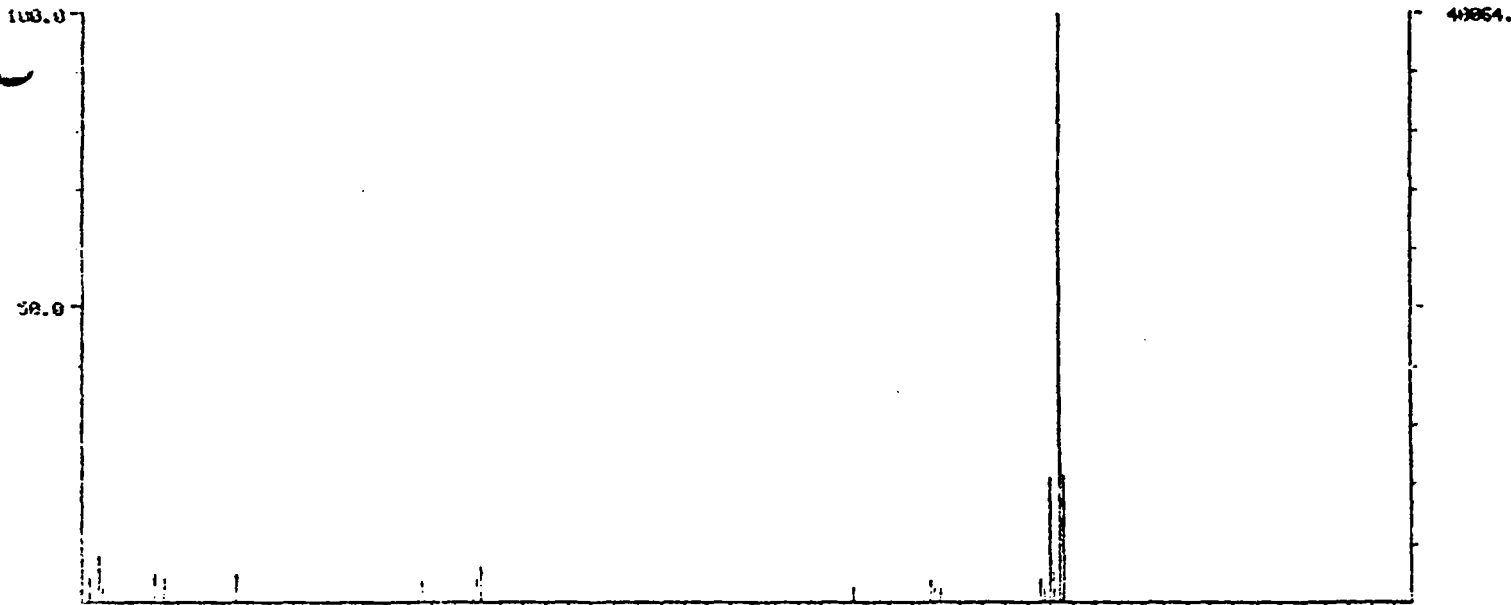


QUAL MASS SPECTRUM
11/03/94 4:00:08 + 31:50
SAMPLE: F2.U. COL. #8089, B3.C. HQ:NA, NYA
DATA: 22012856003 #1899

DATA: EPSTD #1919
CALI: F2CAL 81

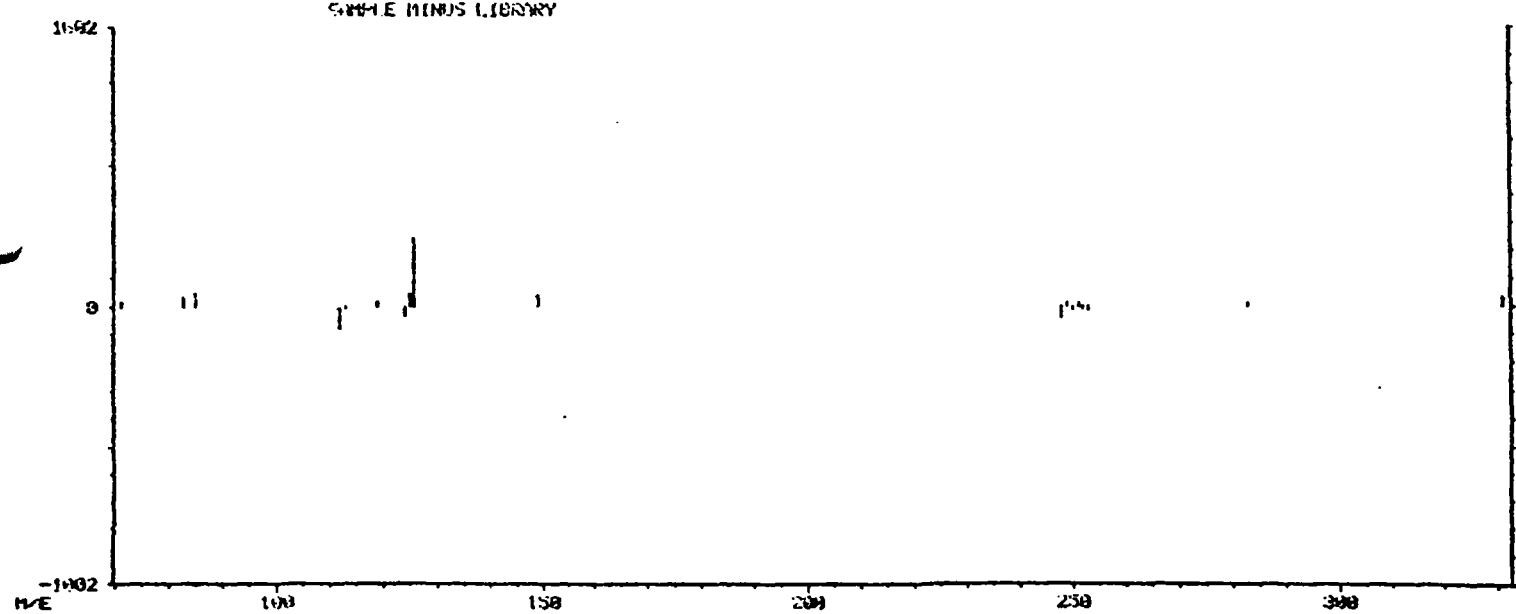
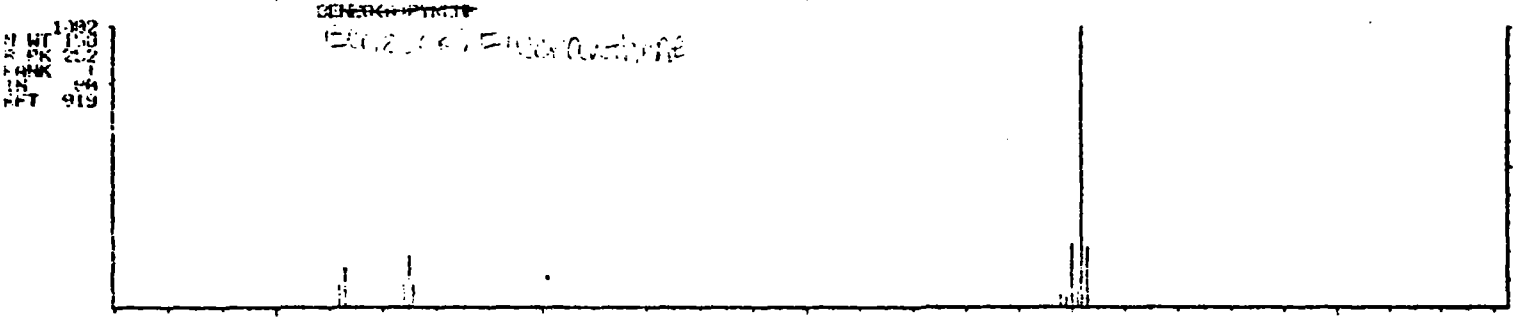
BASE M/E: 252 / 252
RIC: 161887. / 23519.

SECOND SPECTRUM



LIBRARY SEARCH
12/26/94 12:27:00 + 31:15
SAMPLE: 18163 11/12/10/04
ENHANCED (S 158 2N UT)

DATA: 21012656083 1875 INSE M/E: 252
COLI: F200L # 1 RIC: 6919.



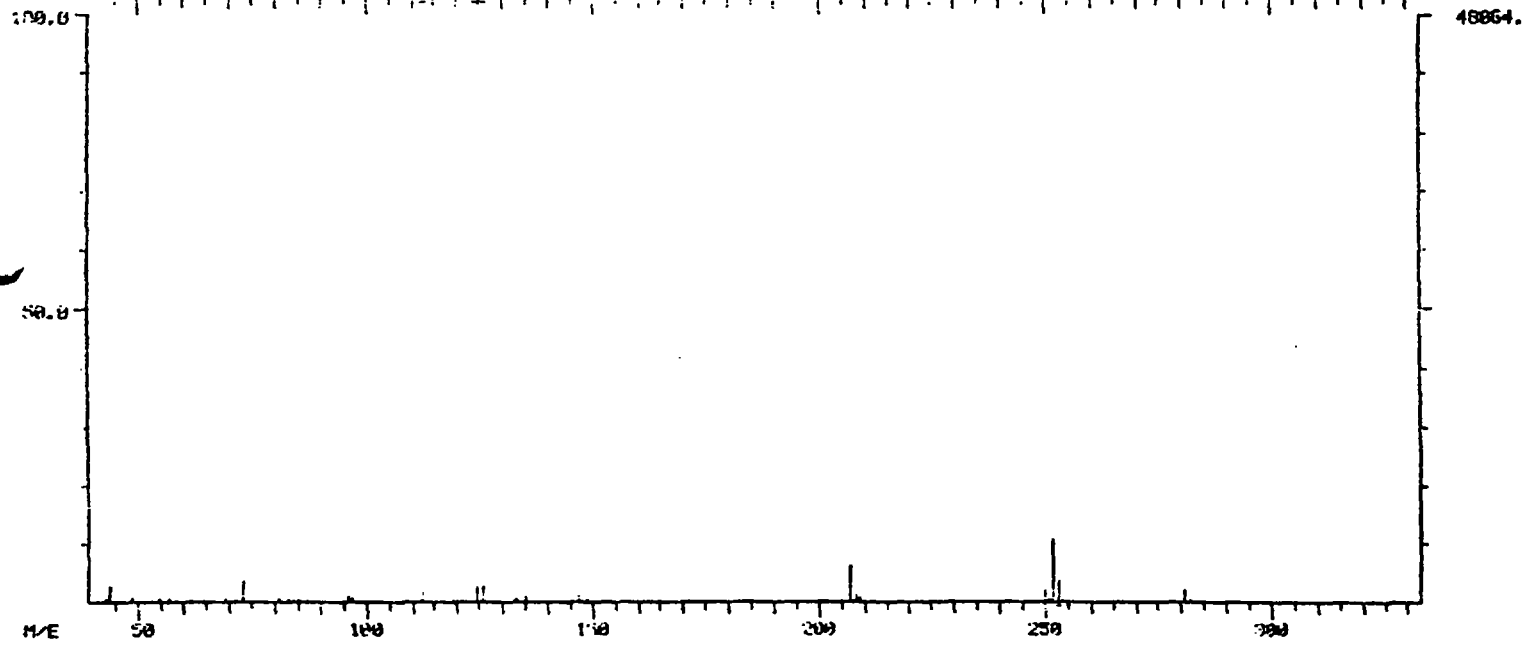
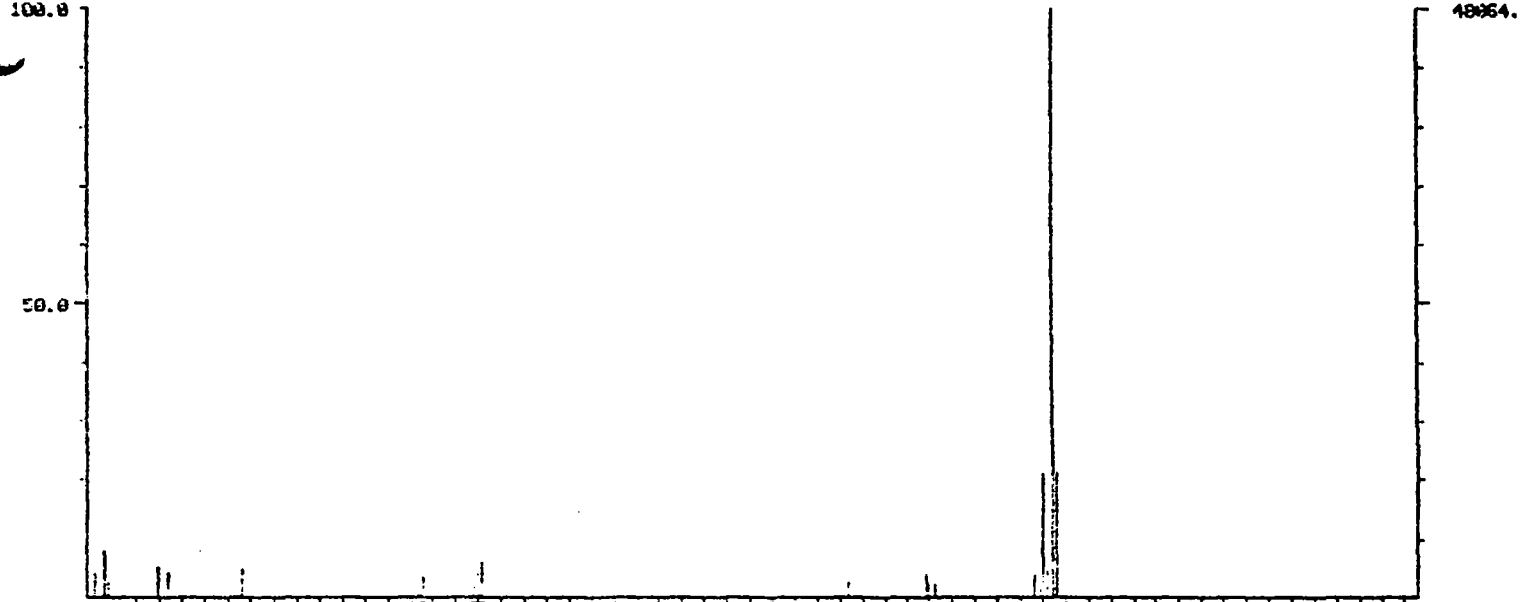
0193

DUAL MASS SPECTRUM
11-09-84 4:38:00 + 01:00
SAMPLE: F2.D.CAL,00000,00,C,NH:NA,NAS
DATA: 2E01200000 01870

DATA: EPSTD 01910
CAL: F2CAL 01

BASE: M/E: 252/ 252
RIC: 101037.7 25509.

SECOND SPECTRUM



LIBRARY SEARCH
12/25/84 10:27:00 + 52:48
SAMPLE: RB163 1:1,12/14/84
ENHANCED (S 100 2H 81)

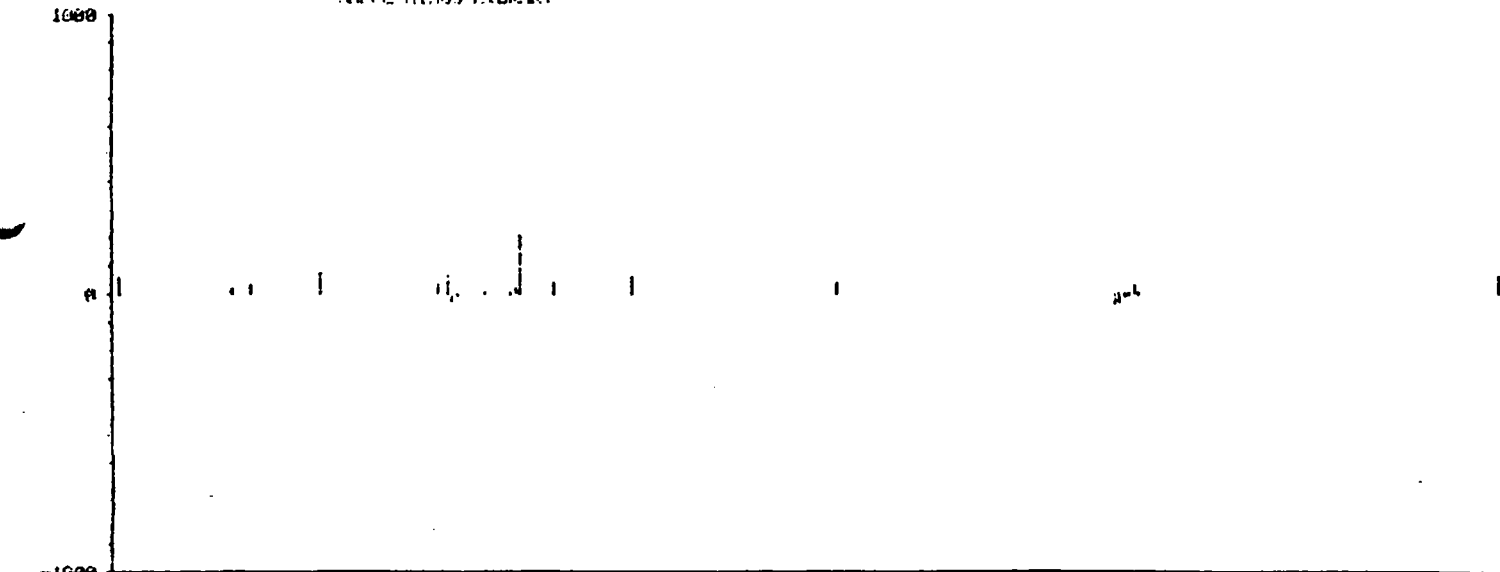
DATA: 2EJ12856C03 #1950
CASE N/E: 252
CA 1: FZCCL # 1
PIC: 6455.



DEBRODOPYRIN.



LIBRARY

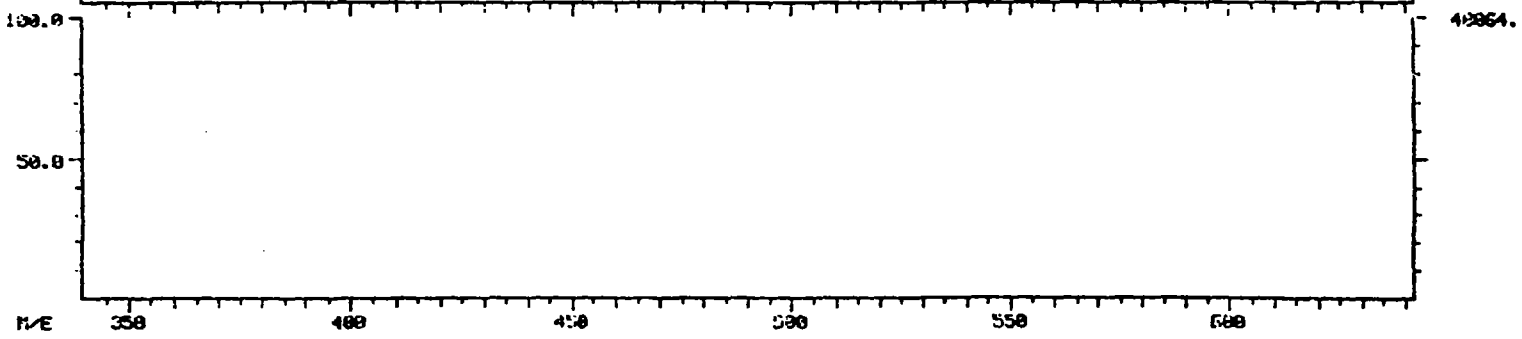
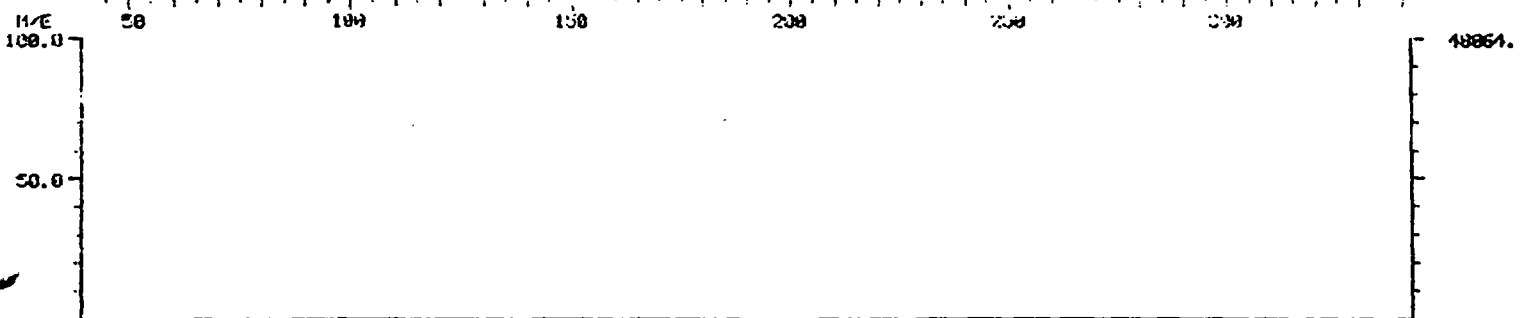
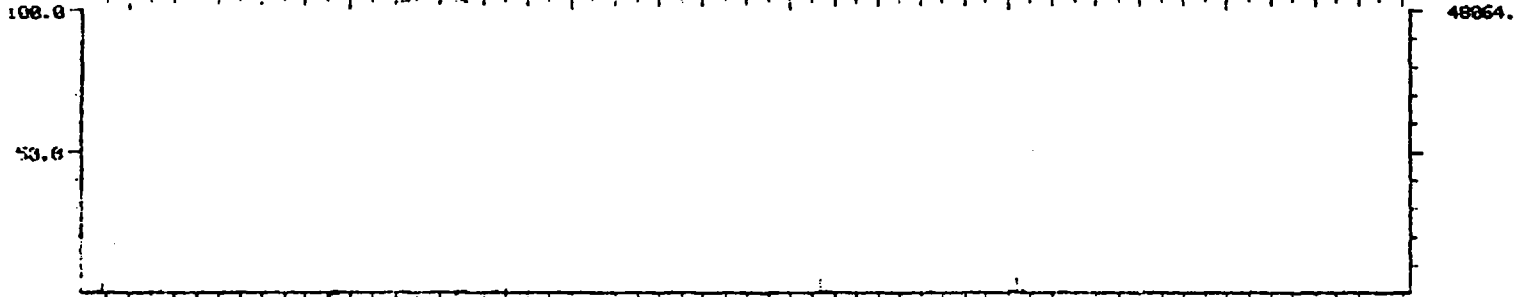
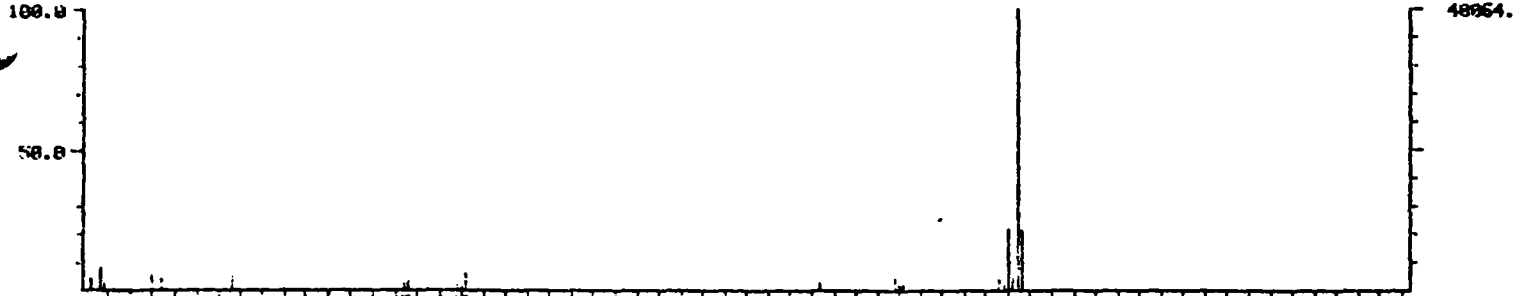


DUAL MASS SPECTRUM
11/09/84 4:35:00 + 31:50
SAMPLE: F2.D. (74.00000, HA, C, HA, NA, HAS
DATA: 201205600 #1358

DATA: EPSTD #1919
CALI: F2CAL #1

BASE M/E: 252/ 207
RIC: 101887./ 20031.

SECOND SPECTRUM



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12056C03.T1

12/26/84 13:27:00

SAMPLE: AB168 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

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

NO NAME

1 D4-1,4-DICHLOROBENZENE (IS)

2 DB-NAPHTHALENE (IS)

3 D10-ACENAPHTHENE (IS)

4 D10-PHENANTHRENE (IS)

5 D12-CHRYSENE (IS)

6 D-12 BENZO(A)PYRENE (IS)

7 HEPTANAL

8 1-PROPENE,3,3,3-TRICHLORO-

9 HEXANE,2,2,5,5-TETRAMETHYL-

10 CYCLOHEXANOL,4-CHLORO-,TRANS-

11 1,2-CYCLOHEXANEDIOL

~~12 BENZOICACID~~

~~13 PHENOL,1-NITRO-~~

14 PHENANTHRENE

~~15 PHENANTHRENE-~~

16 BUTYLAMINE,4-PHENYL-,HYDROCHLORIDE

17 1-HEXENE,2,5,5-TRIMETHYL-

18 CYCLOBUTANEACETONITRILE,1-METHYL-2-(1-METHYLETHYLIDENE)-

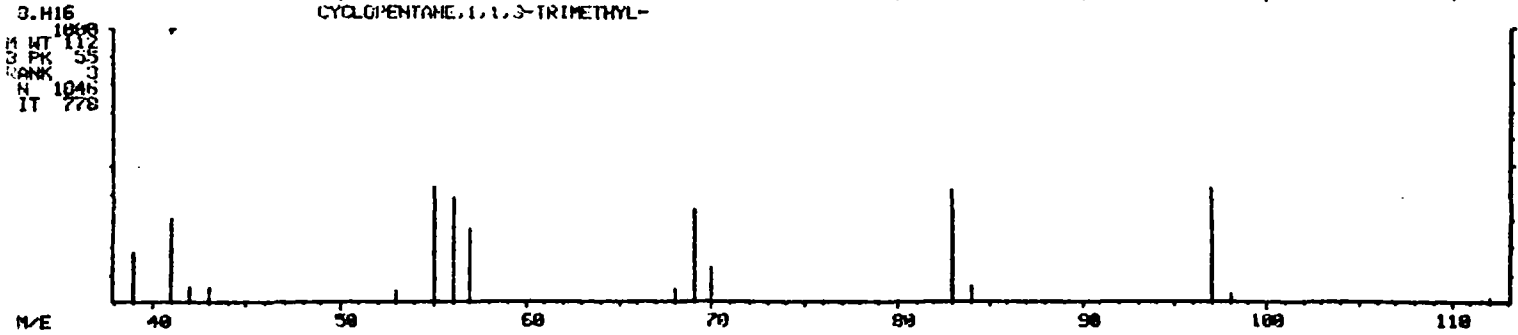
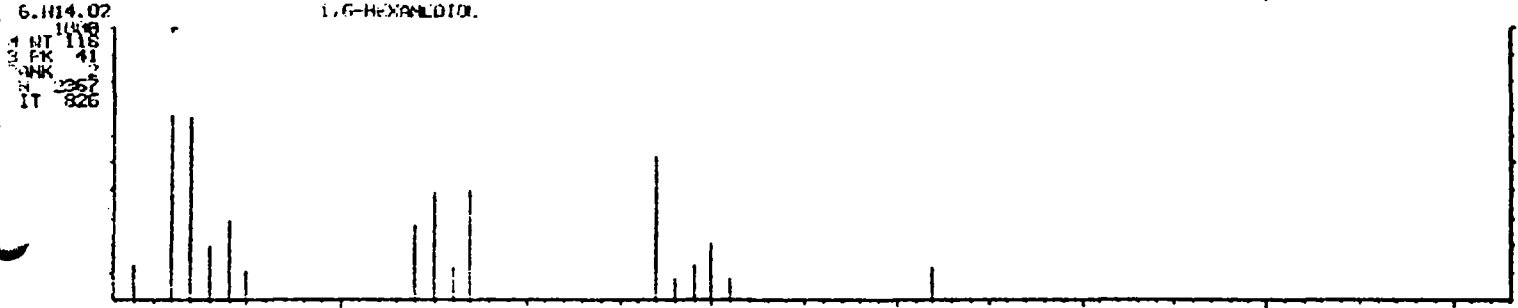
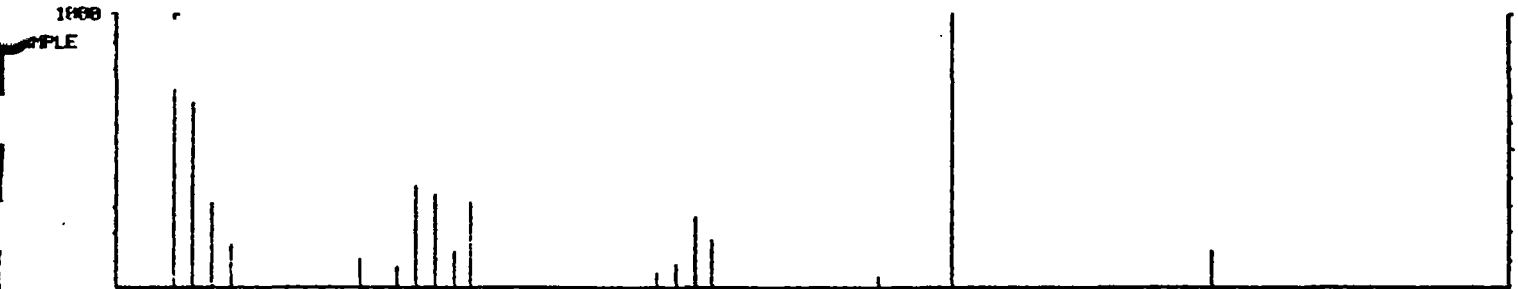
19 2-PROPANOL,1-(P-TERT-BUTYLPHENOXY)-

20 SILANE,TRIMETHYLPHENYL-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	509	8:29	1	1.000	A BB	72207.	40.000 UG/ML	6.62
2	136	693	11:33	2	1.000	A BB	222826.	40.000 UG/ML	6.62
3	164	970	16:10	3	1.000	A BB	149527.	40.000 UG/ML	6.62
4	188	1206	20:06	4	1.000	A BB	223408.	40.000 UG/ML	6.62
5	240	1639	27:19	5	1.000	A BB	217475.	40.000 UG/ML	6.62
6	264	1977	32:57	6	1.000	A BB	190157.	40.000 UG/ML	6.62
7	TOT	337	5:37	1	0.662	A BB	24840.	41.264 UG/L	6.83
8	TOT	436	7:16	1	0.857	A BB	22109.	36.715 UG/L	6.07
9	TOT	449	7:29	1	0.882	A BB	18076.	30.018 UG/L	4.97
10	TOT	525	8:45	1	1.031	A UU	80493.	133.673 UG/L	22.11
11	TOT	557	9:17	1	1.094	A BB	27594.	45.825 UG/L	7.58
12	TOT	651	10:51	2	0.939	A UB	4534.	2.442 UG/L	0.40
13	TOT	790	16:30	3	1.021	A BB	5562.	4.464 UG/L	0.74
14	TOT	1203	20:09	4	1.002	A BB	24990.	13.424 UG/L	2.22
15	TOT	1217	20:17	4	1.003	A BB	15331.	8.236 UG/L	1.36
16	TOT	1553	25:53	5	0.948	A BB	15903.	8.776 UG/L	1.45
17	TOT	1652	27:32	5	1.008	A UU	15003.	8.282 UG/L	1.37
18	TOT	1778	29:38	5	1.085	A BU	13678.	7.548 UG/L	1.25
19	TOT	1910	31:50	6	0.966	A UB	14443.	9.115 UG/L	1.51
20	TOT	2029	33:49	6	1.026	A BB	23276.	14.690 UG/L	2.43

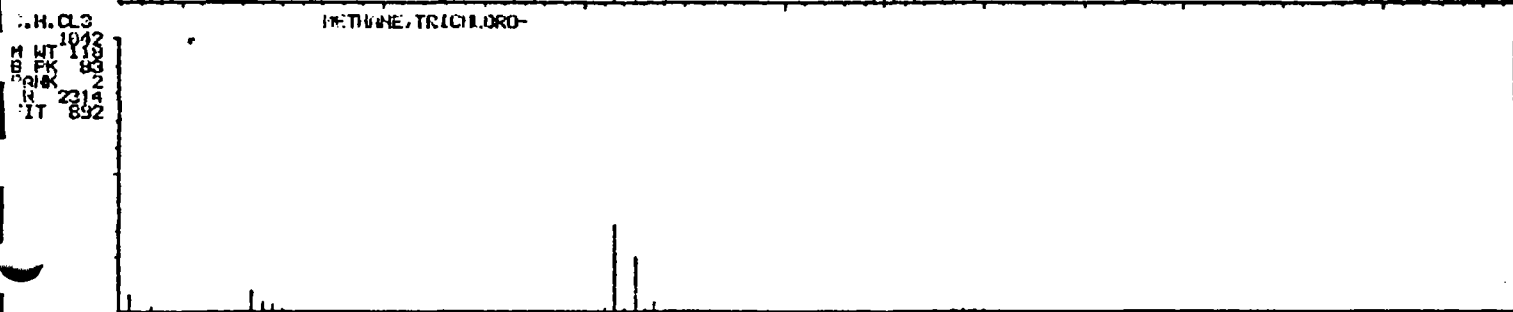
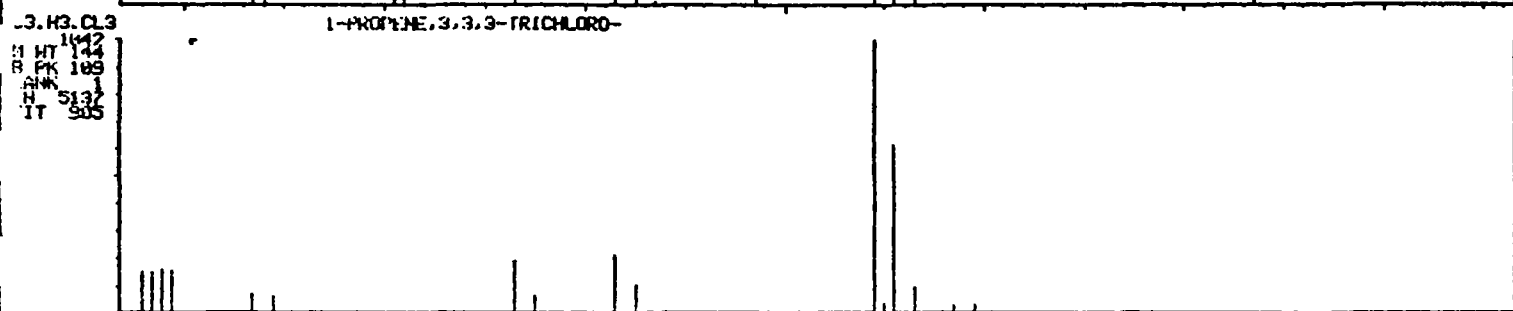
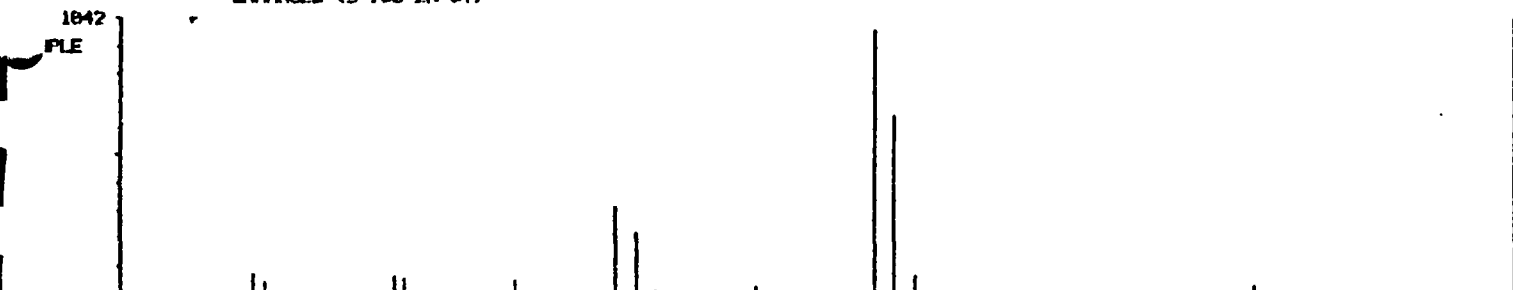
LIBRARY SEARCH
12/26/84 19:27:00 + 5:36
SAMPLE: AB168 1:1,12/10/84
ENHANCED (S 15R 2N BT)

DATA: ZEUI20560:03 # 336
CALI: F2CAL # 1
MSE M/E: 83
KIC: 8799.



LIBRARY SEARCH
12/26/84 13:27:00 + 7:16
SAMPLE: AB168 1:1,12/18/84
ENHANCED (S 158 2N 8T)

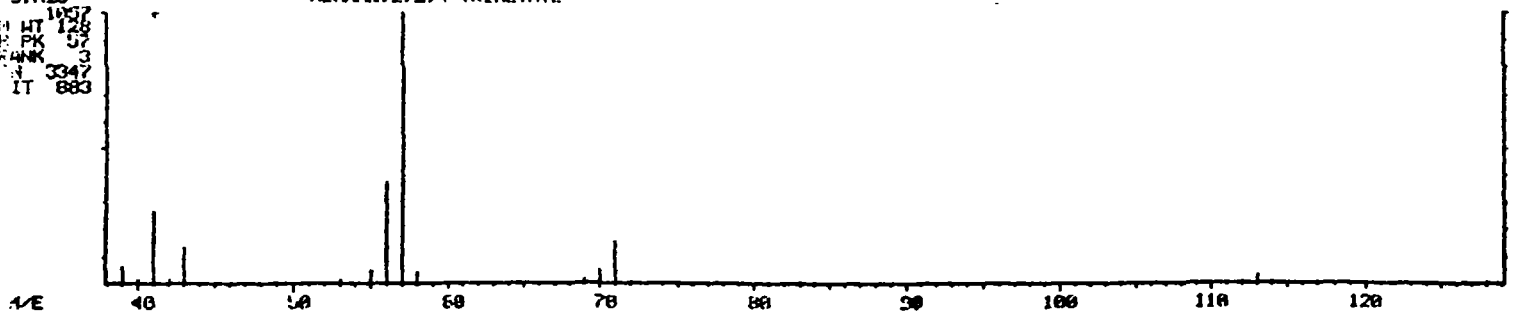
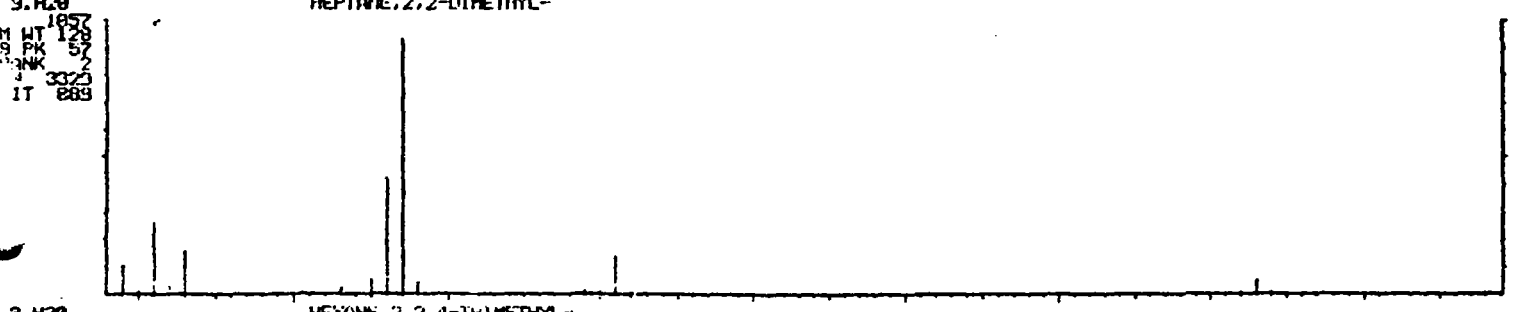
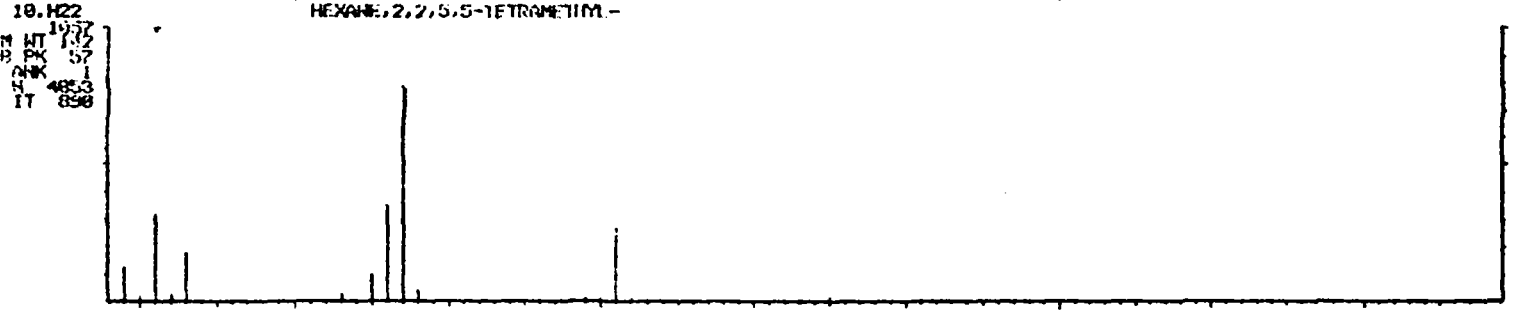
DATA: 2FU12856C83 # 436 BASE M/E: 189
CAL: FZCAL # 1 RIC: 8255.



M/E 40 60 80 100 120 140 160

LIBRARY SEARCH
12/26/84 13:27:00 + 7:29
SAMPLE: 08158 1:1,12/10/84
ENHANCED (S 158 2N 0T)

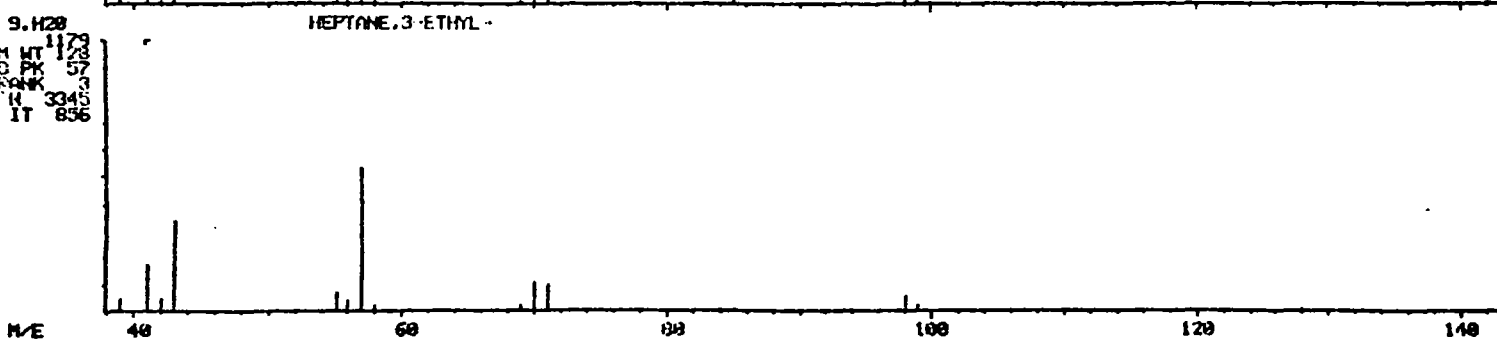
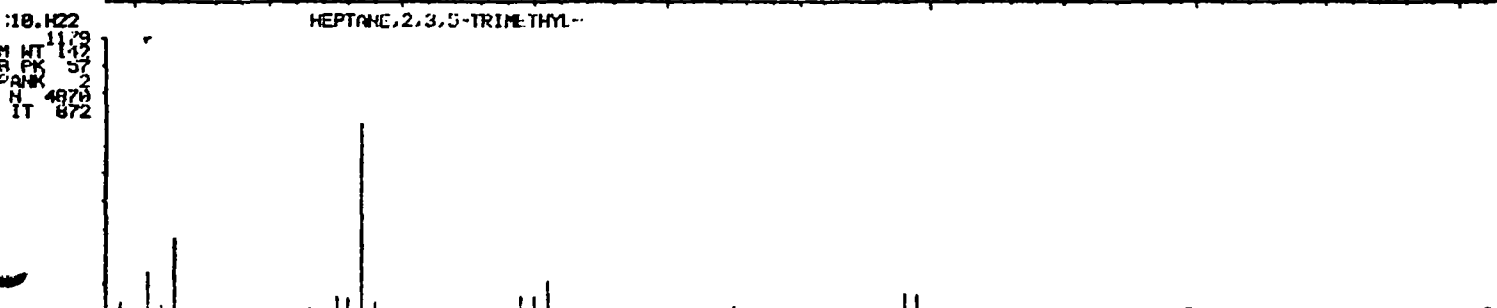
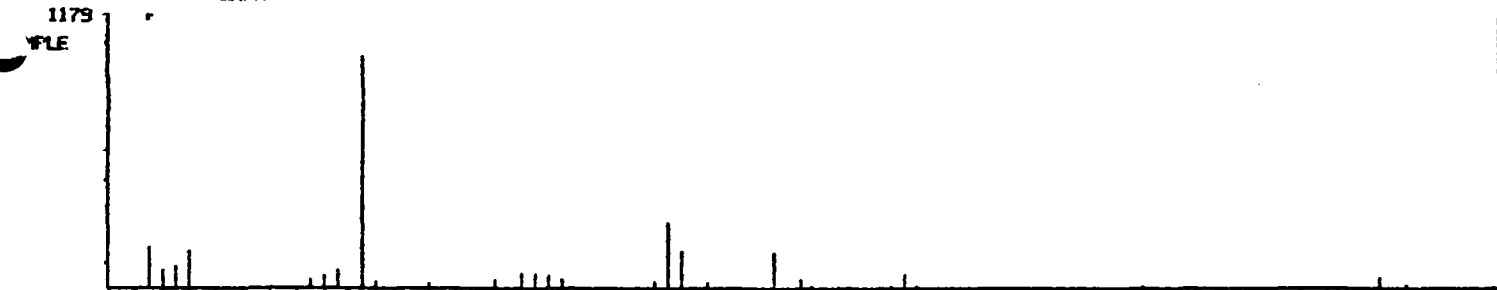
DATA: 2E112056C83 # 449 BASE: M/E: 57
CAL: FZCAL # 1 RIC: 6743.



m/e 40 50 60 70 80 90 100 110 120

LIBRARY SEARCH
12/26/84 13:27:00 + 8:45
SAMPLE: AB168 1:1,12/18/84
ENHANCED (S 15B 2N 8T)

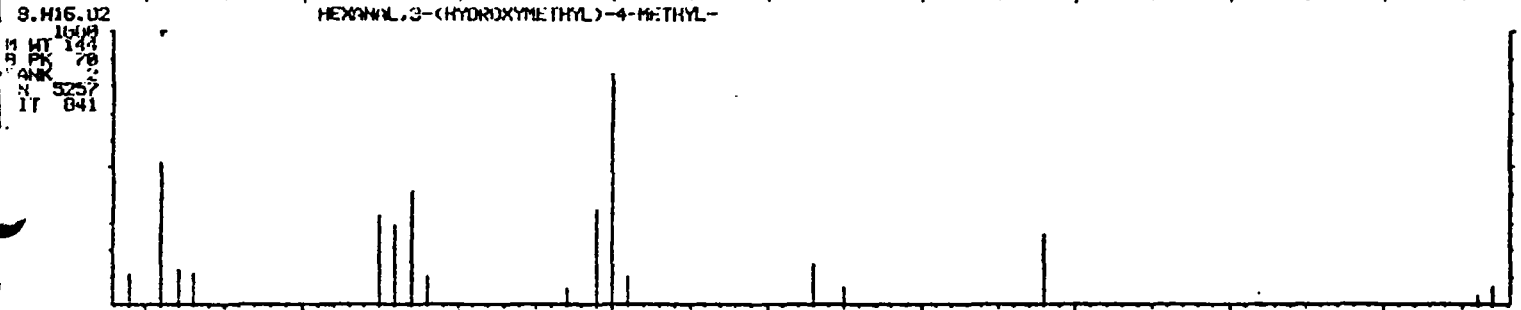
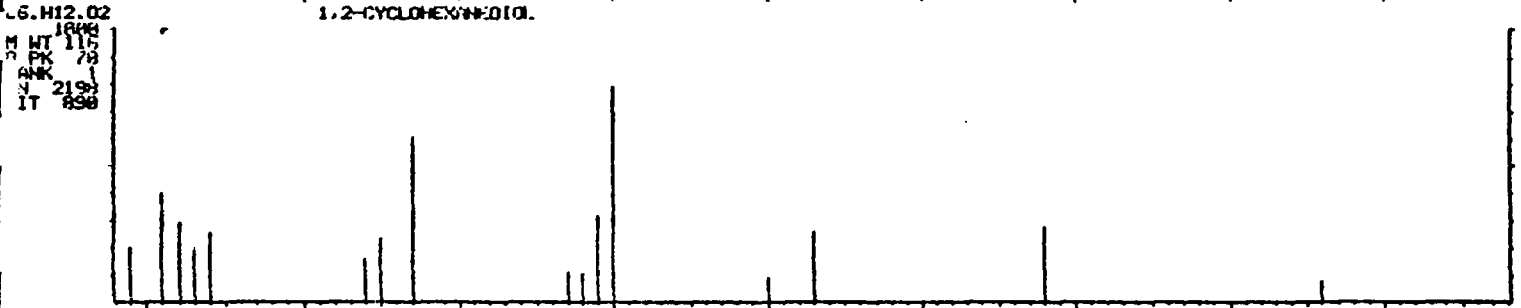
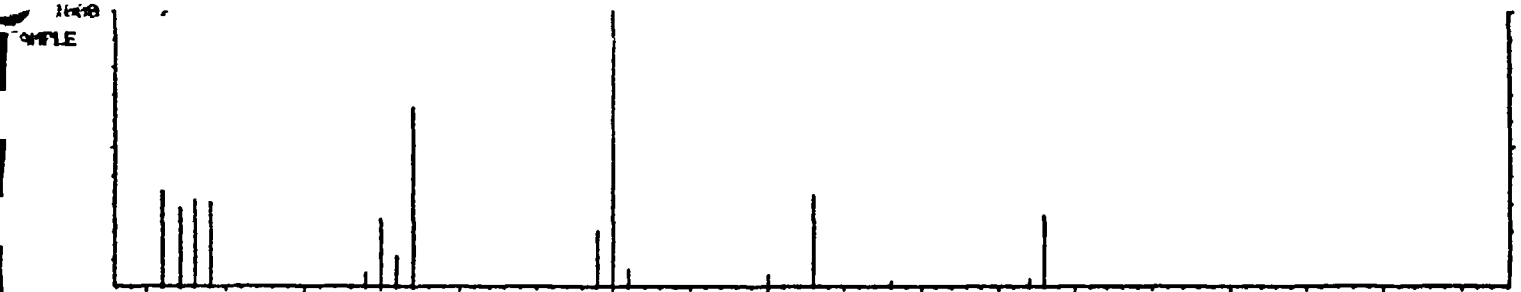
DATA: 2B11205GCR3 # 525 BASE M/E: 57
CALI: F2CAL # 1 RIC: 35871.



M/E 40 60 80 100 120 140

LIBRARY SEARCH
12/26/84 13:27:00 + 9:17
SAMPLE: AB165 111,12/18/84
ENHANCED (S.F. IN RT)

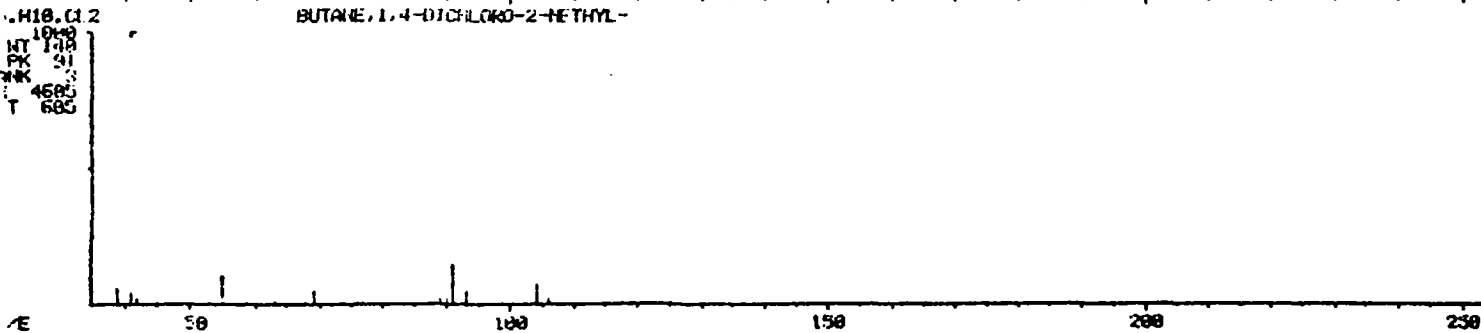
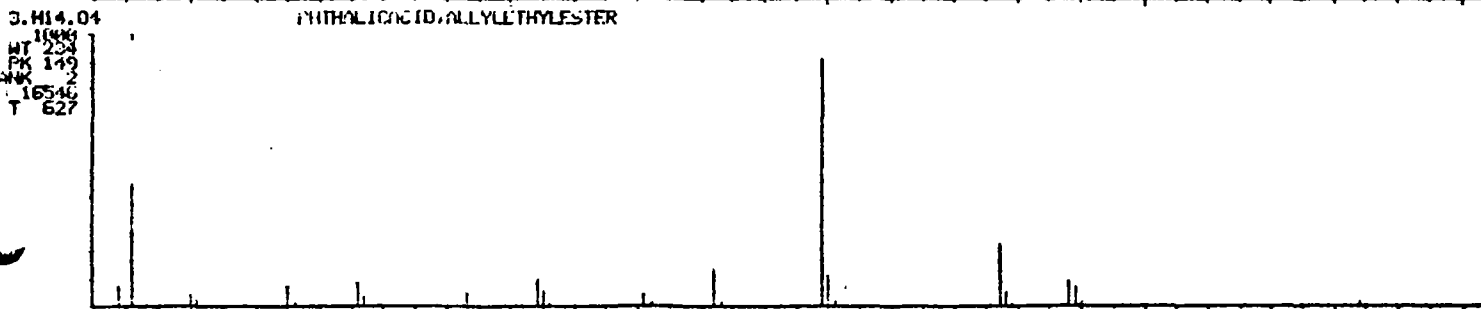
DATA: ZEU1285G0R3 # 557
CALL: FZCAL # 1
BASE M/E: 70
RIC: 18251.



M/E 40 50 60 70 80 90 100 110 120

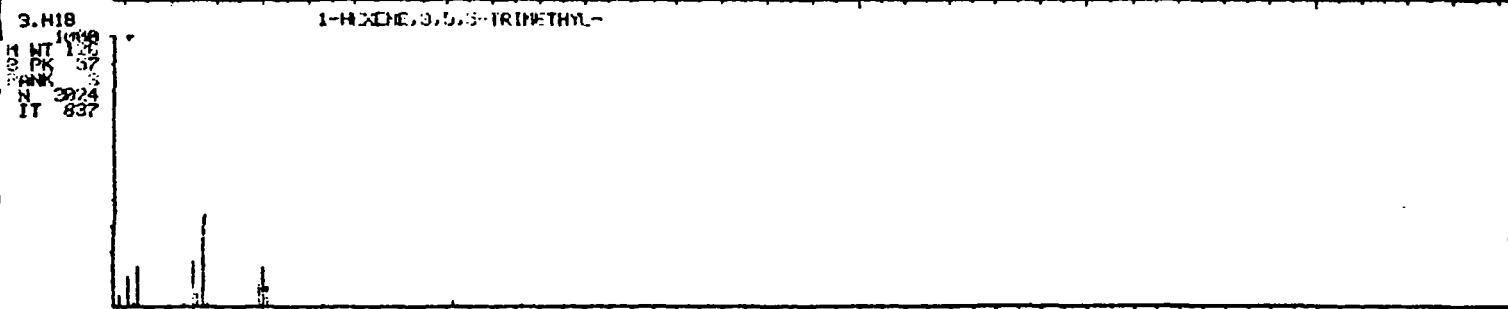
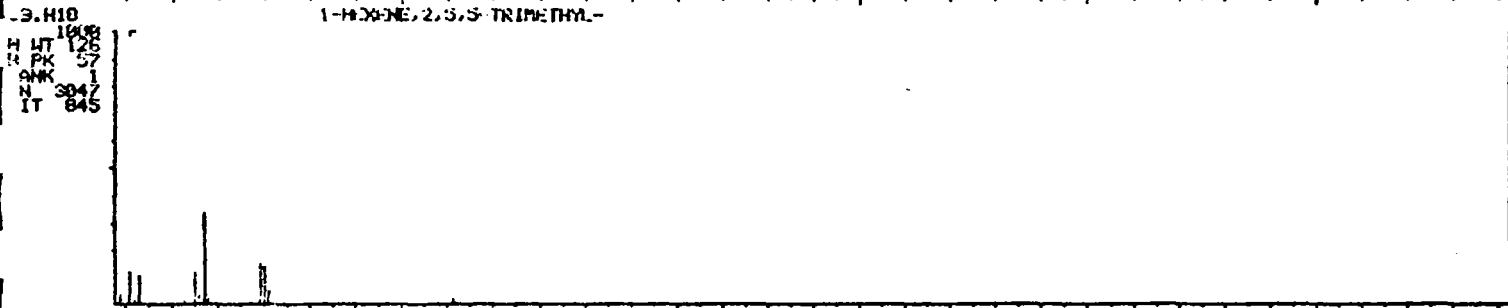
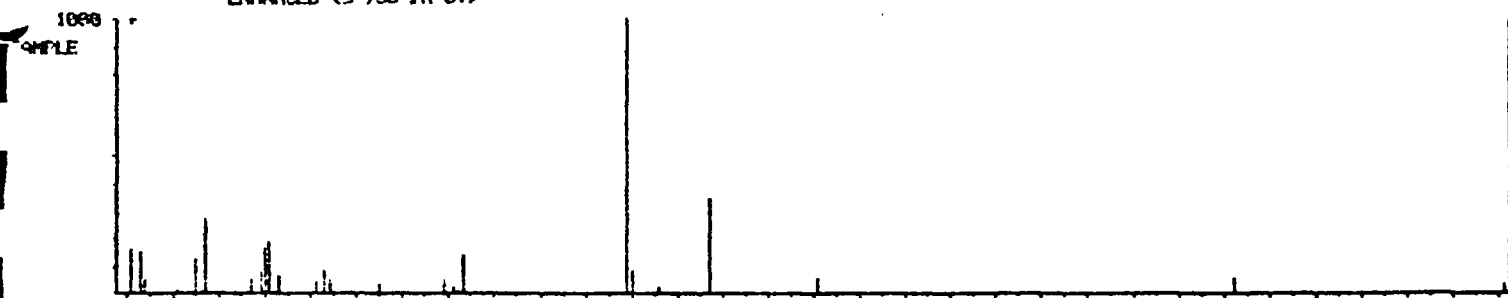
LIBRARY SEARCH
12/26/04 13:27:08 + 25:52
SAMPLE: 08168 1:1.12/10/04
ENHANCED (S 100 2N 01)

DATA: 2FU1205G083 01502 BASE N/E: 149
COL1: F2CAL 0 1 RIC: 6319.



LIBRARY SEARCH
12/26/84 13:27:00 + 27:32
SAMPLE: AB16R 1:1,12/18/84
ENHANCED (S 158 2H 0T)

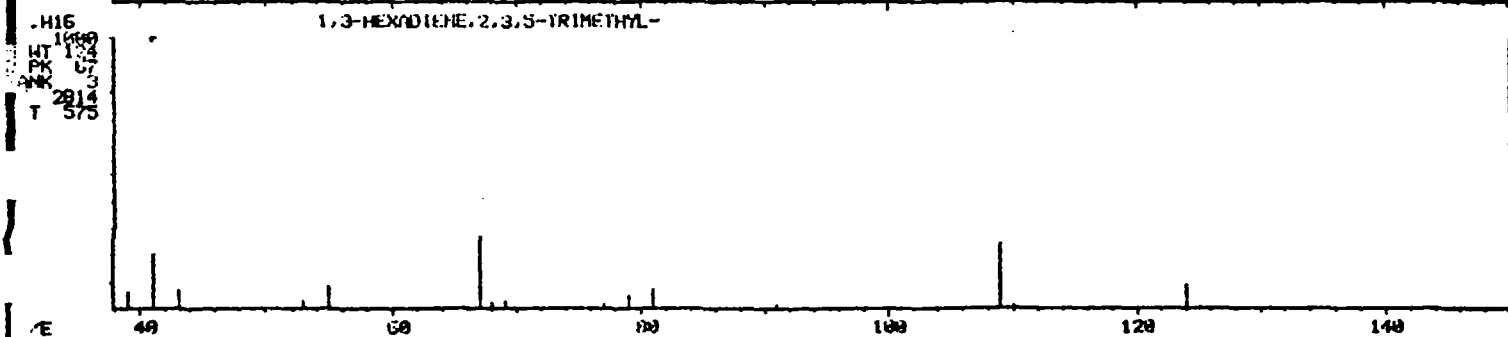
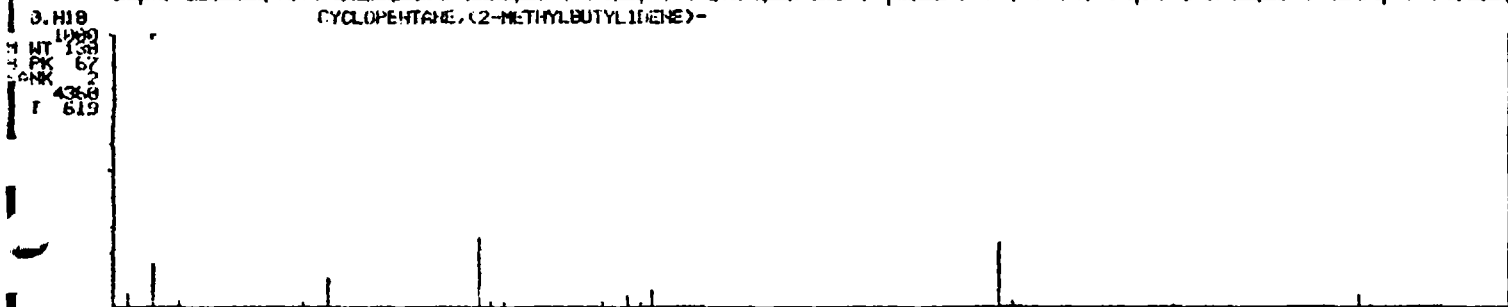
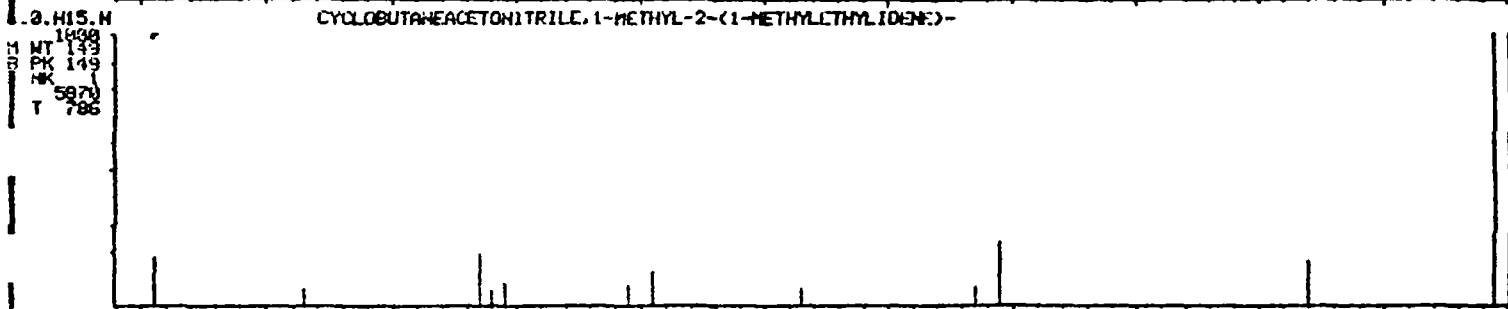
DATA: ZEU12853CR3 #1652 BASE M/E: 149
CAN 1: F2CAL # 1 RIC: 7647.



M/E 50 100 150 200 250 300

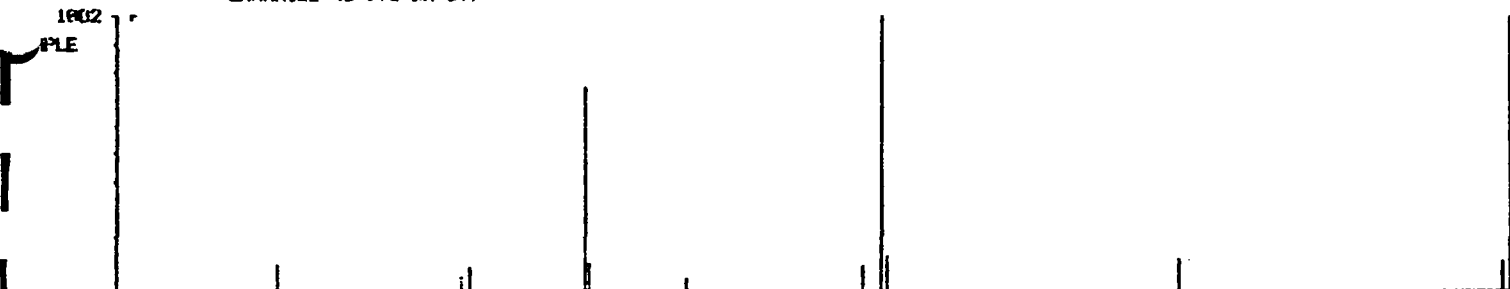
LIBRARY SEARCH
12/26/84 13:27:00 + 29:33
SAMPLE: AD168 1:1.12/18/84
ENHANCED (S 158 2N 8T)

DATA: 2EU1285GC03 #1778 BASF ME: 149
CALI: FZCAL # 1 KIC: 1591.

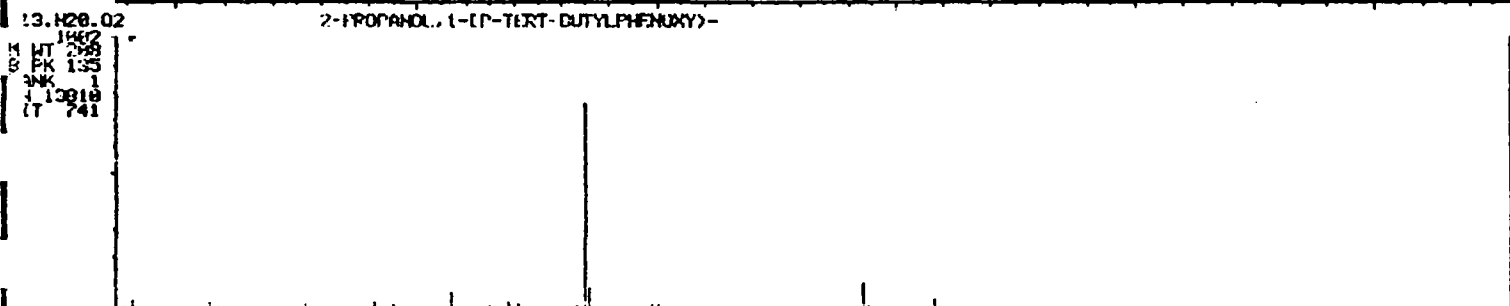


LIBRARY SEARCH
12/26/84 13:27:00 + 31:50
SAMPLE: AB168 11.12/10/84
ENHANCED (S 100 2N 8T)

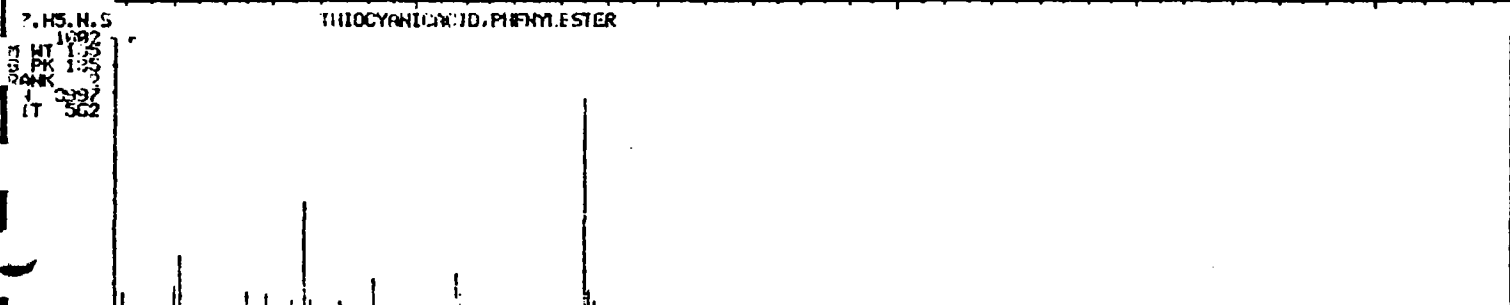
DATA: ZEU12856C03 #1910 BASE ME: 197
CALI: FZCAL # 1 R1C: 3739.



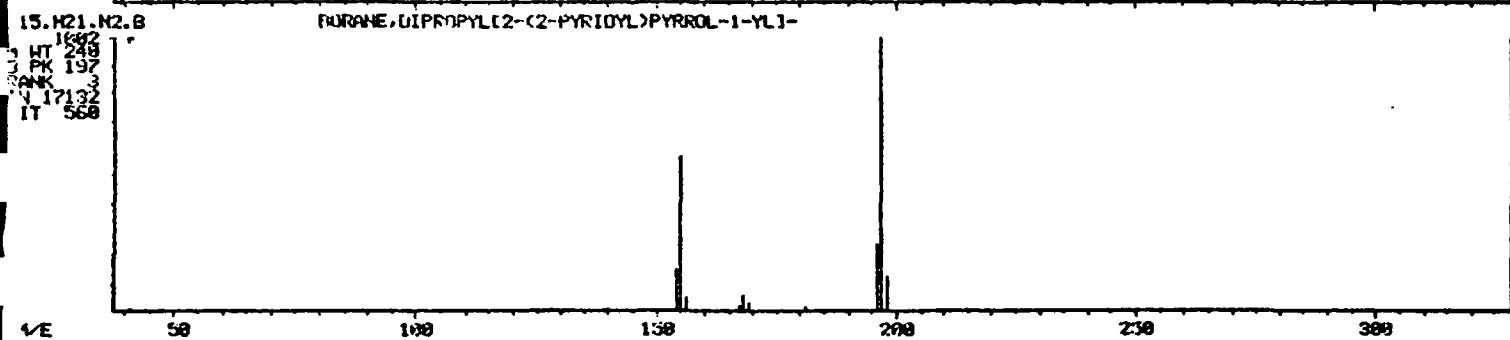
2-PROPANOL, 1-[(1-TEXT-DUTYLPHENOXY)-



THIOCYANICACID, PHENYL ESTER



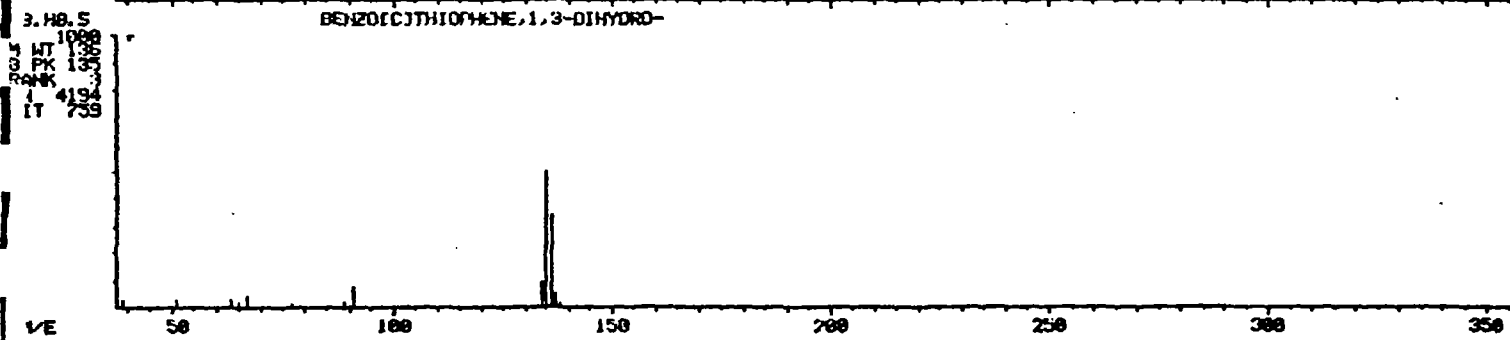
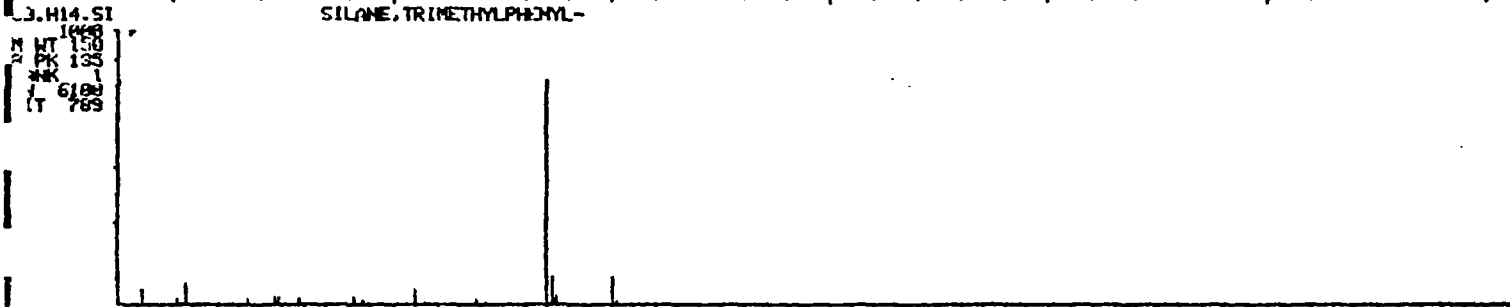
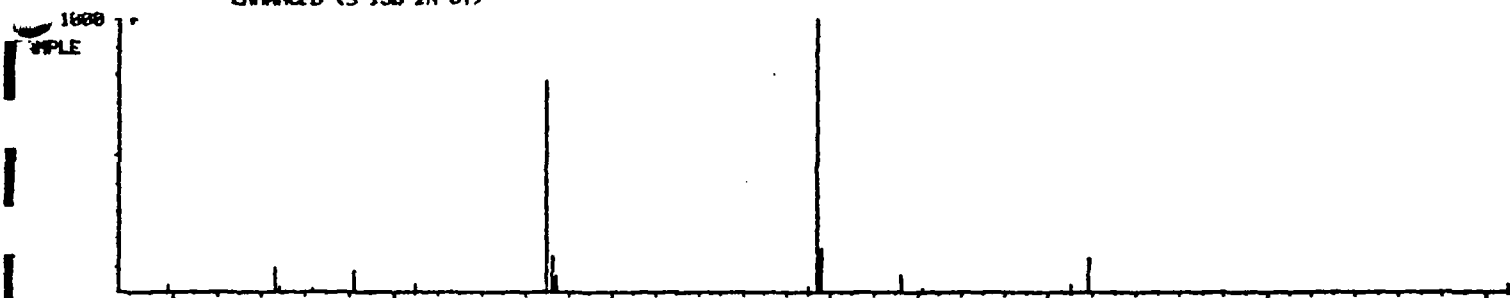
FURANE, OIPROPYL[2-(2-PYRIDYL)PYRROL-1-YL]-



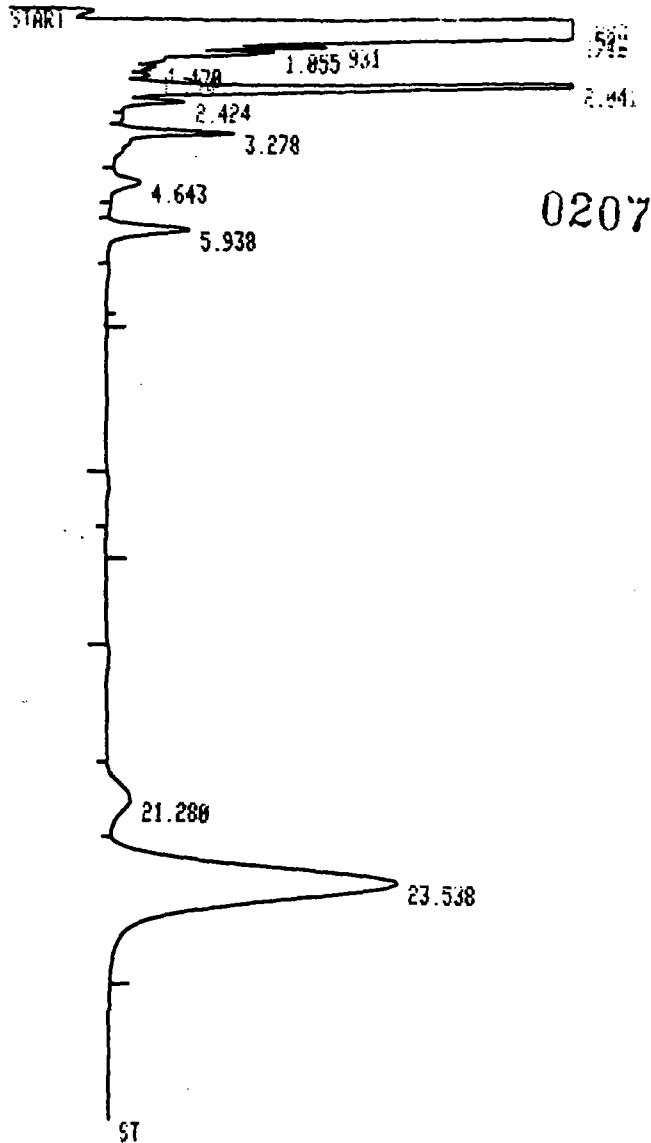
50 100 150 200 250 300

LIBRARY SEARCH
12/26/84 13:27:00 + 33:49
SAMPLE: AB168 1:1.12/10/84
ENHANCED (S 15B 2H 01)

DATA: 2EJ1285GC03 #2829 BASE N/E: 197
CAL 1: F2CAL # 1 RIC: 9847.



VE 50 100 150 200 250 300 350



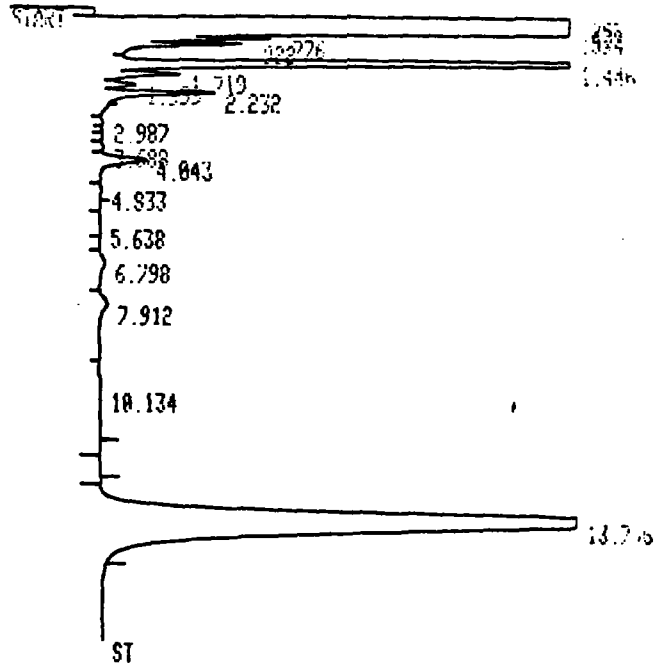
0207

CASE NUMBER 3633
 SAMPLE ID AB 168
 VOLUME INJECTED 2 uL
 COLUMN MP

3633
 RUN # 161 FEB/12/85 01:17:35
 WORKFILE ID: C 5-2-50211-26 2 uL
 WORKFILE NAME: 8412056-03A 1L
 ID: 5-1-2-84 RM MP2 Rest.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.288	1952146	SBH	0.092	48.644
0.522	563269	DSHH	0.092	14.036
0.712	1267344	DSHB	0.095	31.500
0.931	11332	DTBP	0.061	0.282
1.055	9031	TPB	0.121	0.225
1.470	1077	DTBP	0.079	0.027
1.714	1149	DTVV	0.099	0.029
2.041	135819	TVV	0.125	3.384
2.424	6960	TVP	0.134	0.173
3.278	13902	TPP	0.208	0.346
4.643	3460	TPV	0.322	0.086
5.938	9782	TPP	0.288	0.244
21.280	2903	PV	0.964	0.072
23.538	34907	VB	1.126	0.870

TOTAL HGHT= 4013100
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID AB168
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 397 FEB/18/85 00:02:00
 ID 1-1-1-85 1-8-56217-19 2ul
 8412050-03A Part.
 Run SP

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.257	2409384	SPH	0.122	26.560
0.439	1868511	SHH	0.158	20.604
0.594	2401161	DSHH	0.108	26.477
0.776	83611	DTBP	0.064	0.922
0.922	89918	DTPB	0.074	0.992
1.446	1395489	SHB	0.149	15.388
1.719	53993	DTBP	0.103	0.595
1.999	22637	TPV	0.107	0.250
2.232	101659	TVK	0.125	1.121
2.987	1239	TBY	0.164	0.014
3.688	2478	TVV	0.183	0.027
4.043	44806	TVP	0.210	0.494
4.833	1730	TPP	0.220	0.019
5.638	1070	TVV	0.336	0.012
6.798	5527	TVV	0.421	0.041
7.912	7949	TVP	0.427	0.088
10.134	1373	TPB	0.951	0.010
13.796	576242	PB	0.566	6.354

TOTAL HGHT= 9068800
 MUL FACTOR= 1.0000E+00

Organics Analysis Data Sheet (Page 1)

0209

Laboratory Name: Radian
Lab Sample ID No: 4EW12056V04
Sample Matrix: Water
Data Release Authorized By: J. Petrovich

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: 12-8-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: _____
Date Analyzed: 12-14-84
Conc/Dil Factor: 1:1 pH _____
Percent Moisture: 100%
Percent Moisture (Decanted): _____

all per 5/10/84

CAS-Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10u J
74-83-9	Bromomethane	10u J
75-01-4	Vinyl Chloride	10u J
75-00-3	Chloroethane	10u J
75-09-2	Methylene Chloride	SR
67-64-1	Acetone	430UJ
75-15-0	Carbon Disulfide	5u J
75-35-4	1, 1-Dichloroethene	5u J
75-34-3	1, 1-Dichloroethane	5u J
156-60-5	Trans-1, 2-Dichloroethene	5u J
67-66-3	Chloroform	25UJ
107-06-2	1, 2-Dichloroethane	5u J
78-93-3	2-Butanone	50UJ
71-55-6	1, 1, 1-Trichloroethane	4R
56-23-5	Carbon Tetrachloride	5u J
108-05-4	Vinyl Acetate	10u J
75-27-4	Bromodichloromethane	5u J

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	45J J
78-87-5	1, 2-Dichloropropane	5u J
10061-02-6	Trans-1, 3-Dichloropropene	5u J
79-01-6	Trichloroethene	5u J
124-48-1	Dibromochloromethane	5u J
79-00-5	1, 1, 2-Trichloroethane	5u J
71-43-2	Benzene	5u J
10061-01-5	cis-1, 3-Dichloropropene	5u J
110-75-8	2-Chloroethylvinylether	10u J
75-25-2	Bromoform	5u J
591-78-6	2-Hexanone	10u J
108-10-1	4-Methyl-2-Pentanone	10u J
127-18-4	Tetrachloroethene	5u J
108-88-3	Toluene	5u J
108-90-7	Chlorobenzene	5u J
100-41-4	Ethylbenzene	5u J
100-42-5	Styrene	5u J
	Total Xylenes	5u J

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but...

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ μ l in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

AB169

Sample Number
AB169Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-26-84Conc/Dil Factor: 1000:1*all per 5/10/85*

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10JK R
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10JK
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzofluoranthene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10JK R
218-01-9	Chrysene	10JK
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzofluoranthene	10u
207-08-9	Benzokifluoranthene	10JK
50-32-8	Benzofluoranthene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzofluoranthene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB169

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000 ml : 5 ul

*all peaks
5/10/85*

CAS Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_i 5000 ul V_t 2 ul

 SAMPLE NUMBER:
 AB169

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/KG
1 7141-0	1-PENTANOL	ABN	336	17
2 100-52-7	BENZALDEHYDE	ABN	376	14
3 2233-00-3	1-PROPENE, 3, 3, 3-TRICHLORO-	ABN	436	65
4 564-02-3	PENTANE, 2, 2, 3-TRIMETHYL-	ABN	449	31
5 27126-223	HEPTANE, 4-AZIDO-	ABN	497	7
6 29535-770	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	525	236
7 931-17-9	1,2-CYCLOHEXANEDIOL	ABN	556	97
8 632-21-3	2-PROPANONE, 1, 1, 3, 3-TETRACHLORO-	ABN	939	2
9	PYRENE	ABN	1403	7
10 140-66-9	PHENOL, 4-(1, 1, 3, 3-TETRAMETHYLBUTYL)-	ABN	2031	14

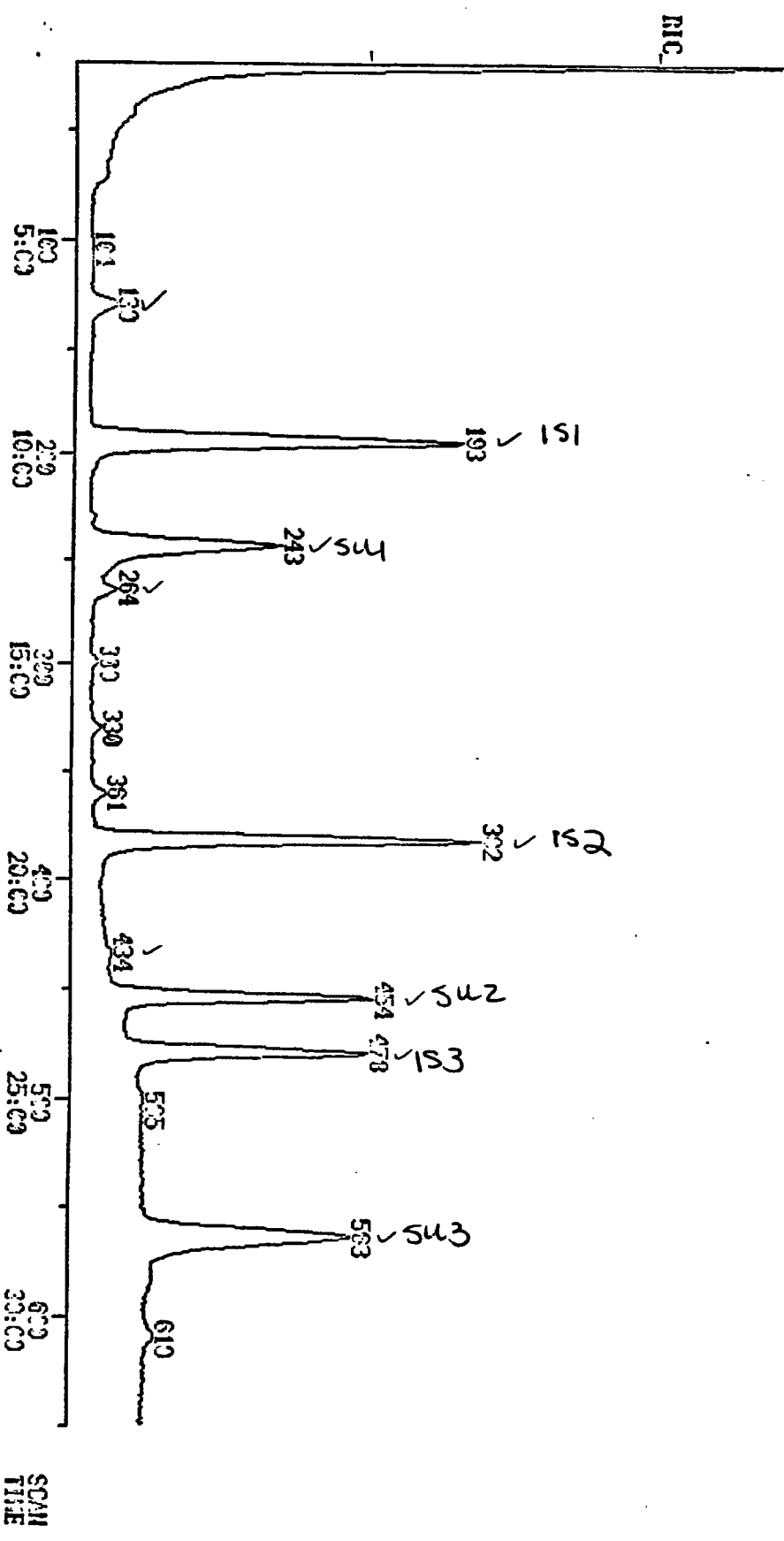
No compounds detected - V

all present
5/10/85

12/14/84 15:26:03
 SAMPLE: F4.D.EPA.AB169.C3.Y.1:1.MS
 RANGE: 0 1.650 LABEL: N 0.4.0 CUMI: A 0.1.0 BASE: U 20. 3

CALL: FACAL 01

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4EU12056V04.TI
 12/14/84 15:26:00
 SAMPLE: F4.D,EPA,AB169,00,V,1:1,NA\$
 SUBMITTED BY: EPA ANALYST: MM

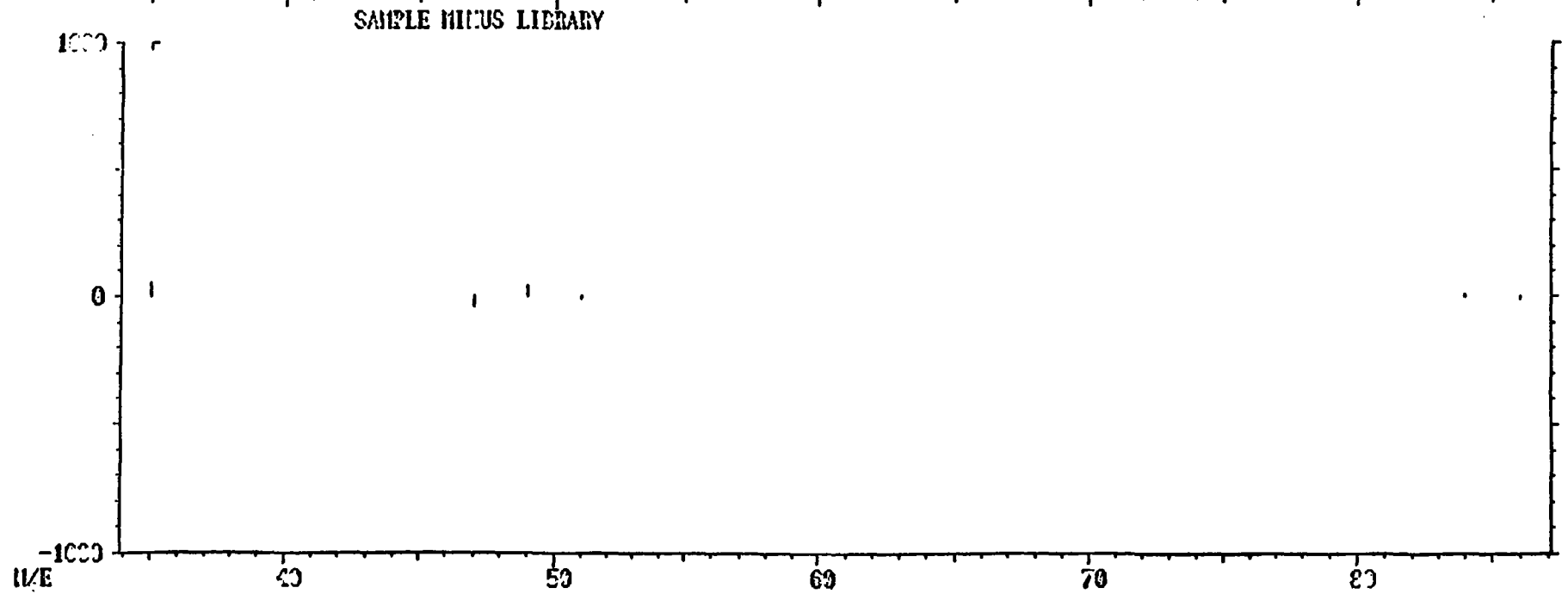
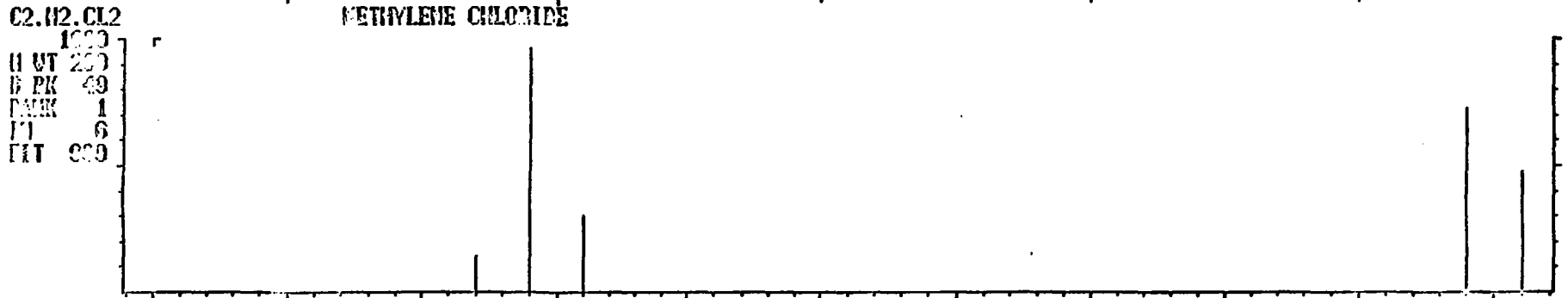
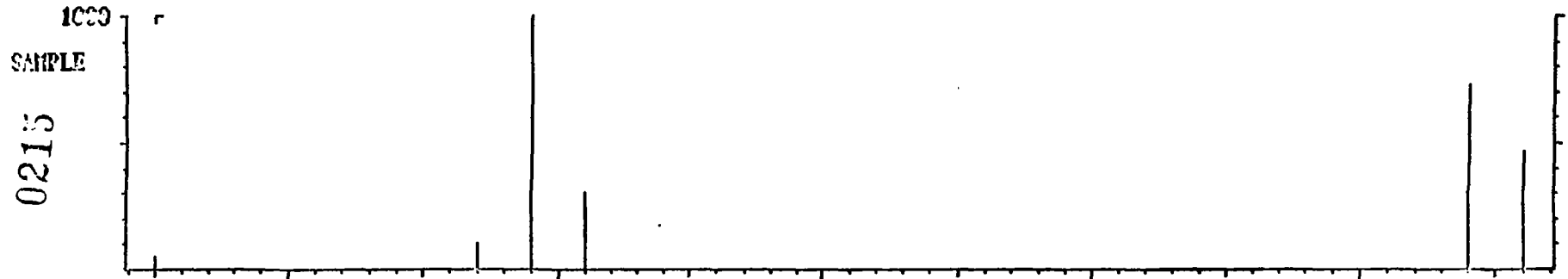
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 (IS1) 74-97-5 BROMOCHLOROMETHANE
- 2 (SU1) SURROGATE D4-1,2-DICHLOROETHANE
- 3 (IS2) DIFLUOROBENZENE-1,2
- 4 (IS3) CHLOROBENZENE-D5
- 5 (SU2) SURROGATE TOLUENE-D8
- 6 (SU3) SURROGATE P-BROMOFLUOROBENZENE
- 7 METHYLENE CHLORIDE
- 8 1,1,1-TRICHLOROETHANE
- 9 1,1,2,2-TETRACHLOROETHANE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	193	9:39	1	1.000	A 08	137348.	50.000 UG/L	11.32
2	67	243	12:09	1	1.259	QEDT	146902.	87.152 %	19.72
3	114	322	13:05	3	1.300	A709	333610.	50.000 UG/L	11.02
4	117	470	23:04	4	1.000	A 09	174342.	50.000 UG/L	11.32
5	98	453	22:39	4	0.949	A70V	222463.	96.355 %	21.31
6	95	532	20:05	4	1.176	A703	165610.	84.541 %	19.13
7	84	150	6:00	1	0.674	A 09	21554.	5.233 UG/L	1.19
8	97	254	13:12	3	0.691	A 08	20640.	14.375 UG/L	3.25
9	83	434	21:42	4	0.908	A 08	7955.	4.293 UG/L	0.95

LIBRARY SEARCH
12/14/84 15:26:00 + 6:30
SAMPLE: F4.D.EPA.AB169.C3.V.1:1.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL 0 1
RIG: 10127.

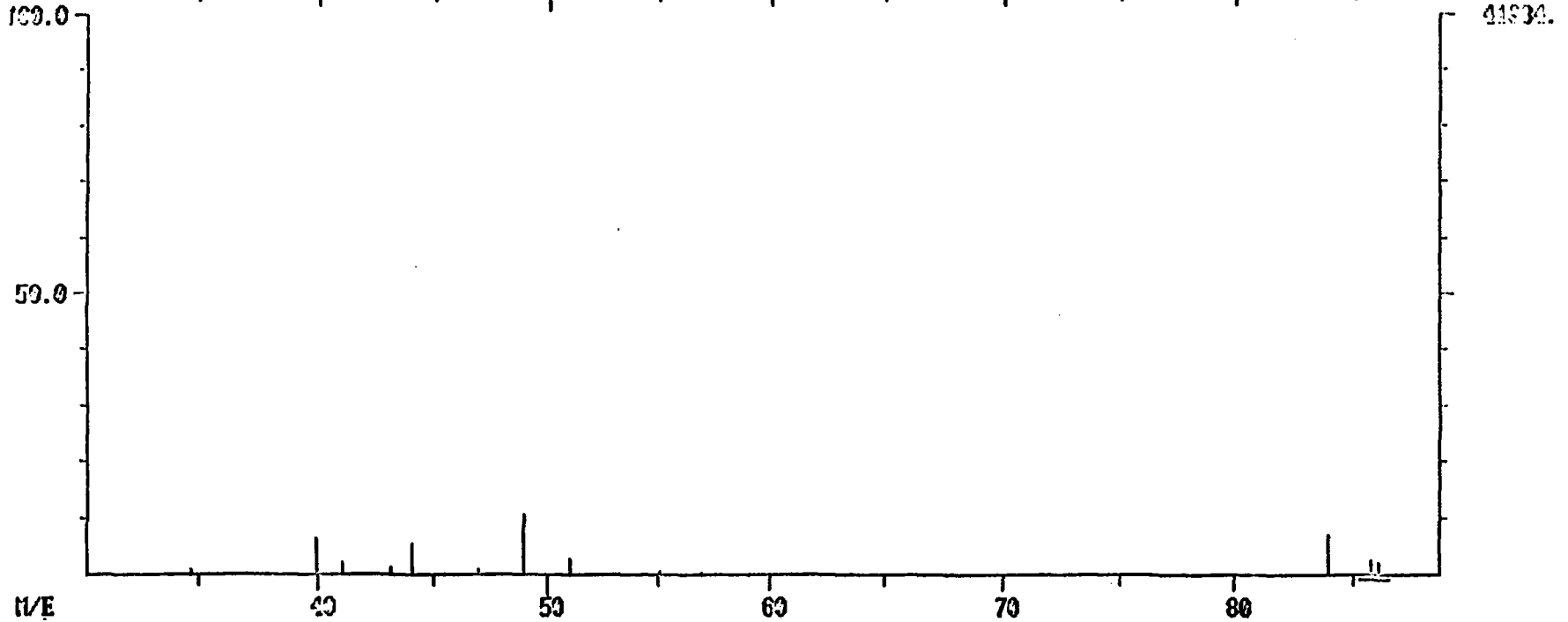
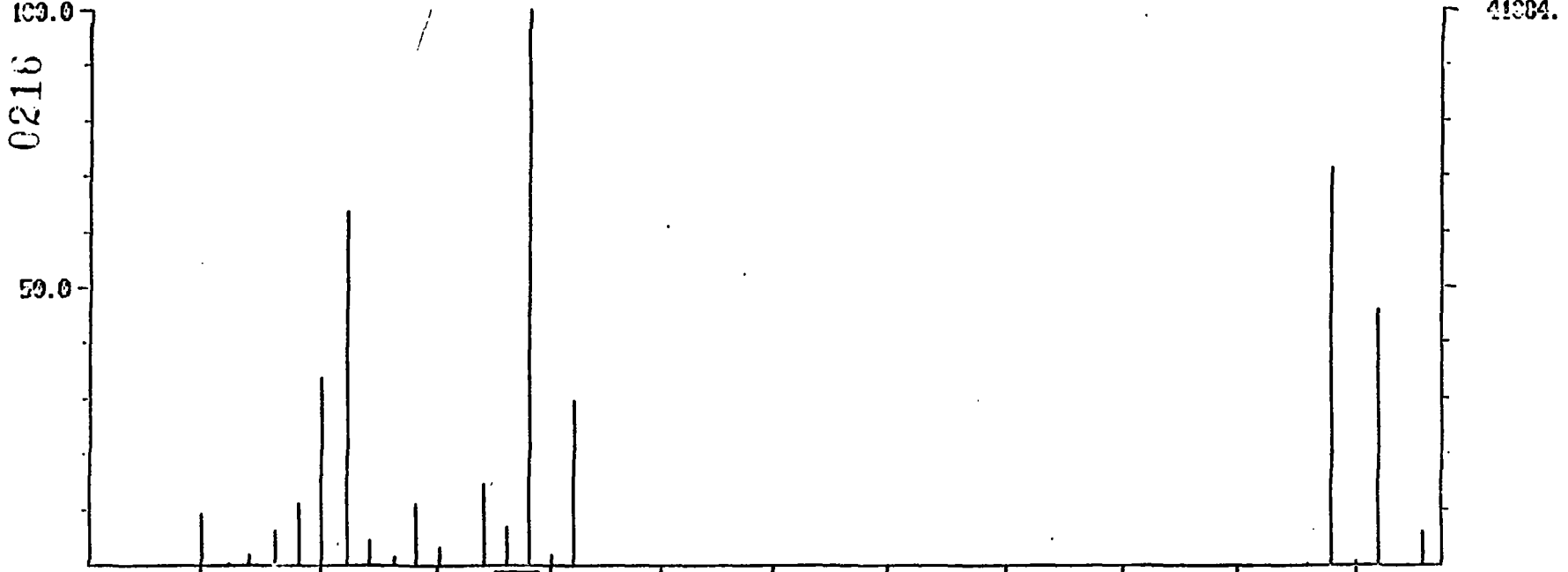


DUPLICATE SPECTRUM
10/15/84 6:32:00 + 4:48
SAMPLE: F4.D.VEB.C91C9.C9.V.MA:HA.NAS
DATA: 4EU12256V04 0130

DATA: 10510 100
CALI: F4CAL 01

DATE TIME: 10/15/84
R1C: 177919.7 17500.

SECOND SPECTRUM



m/e

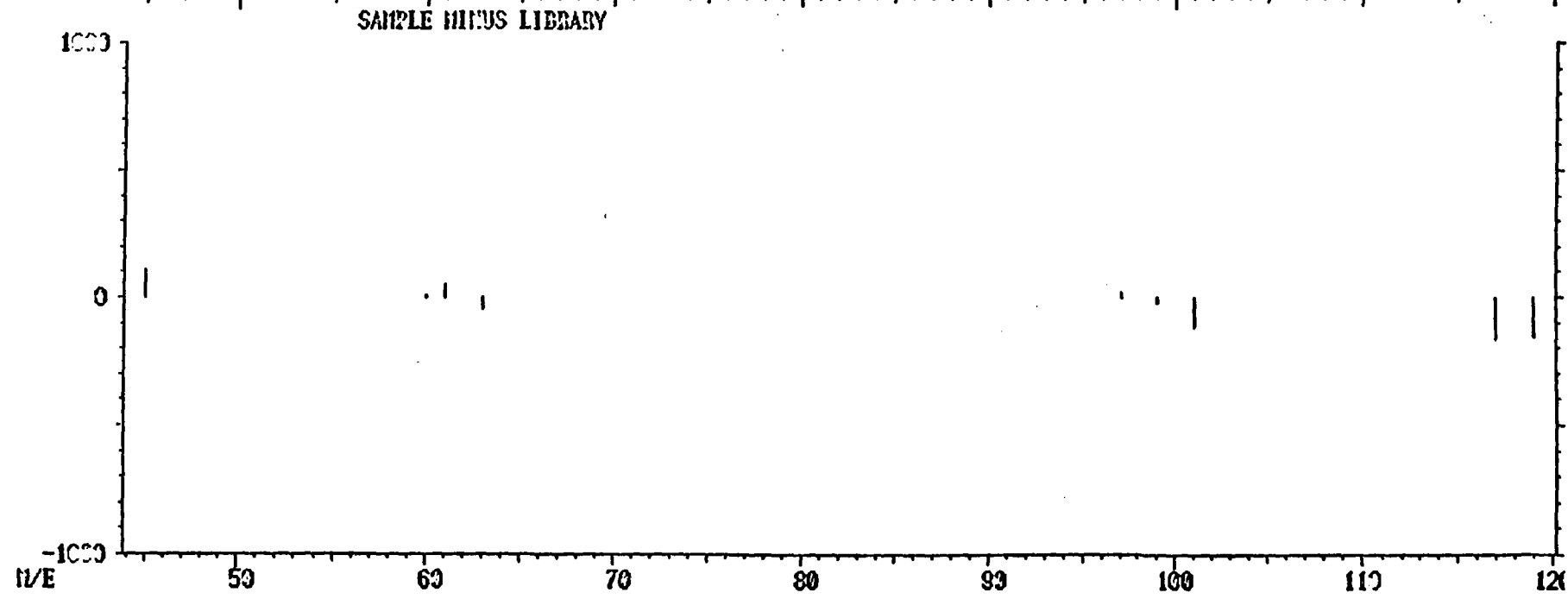
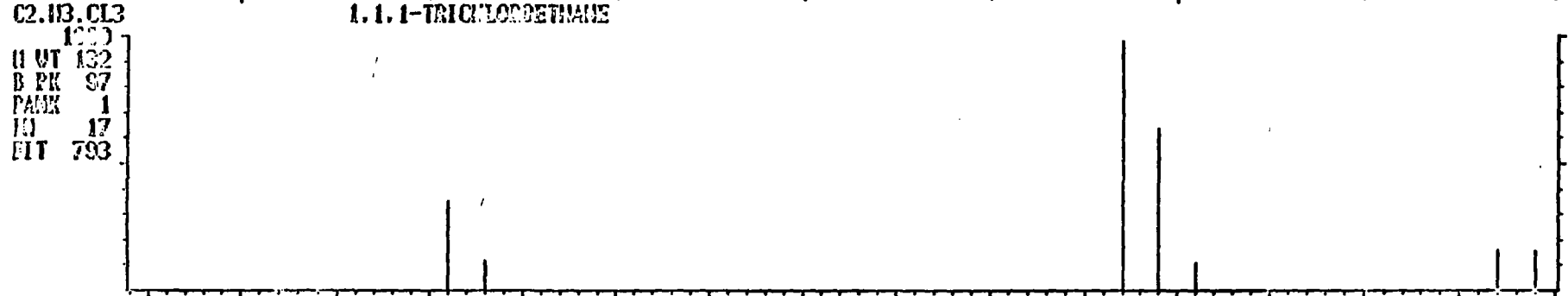
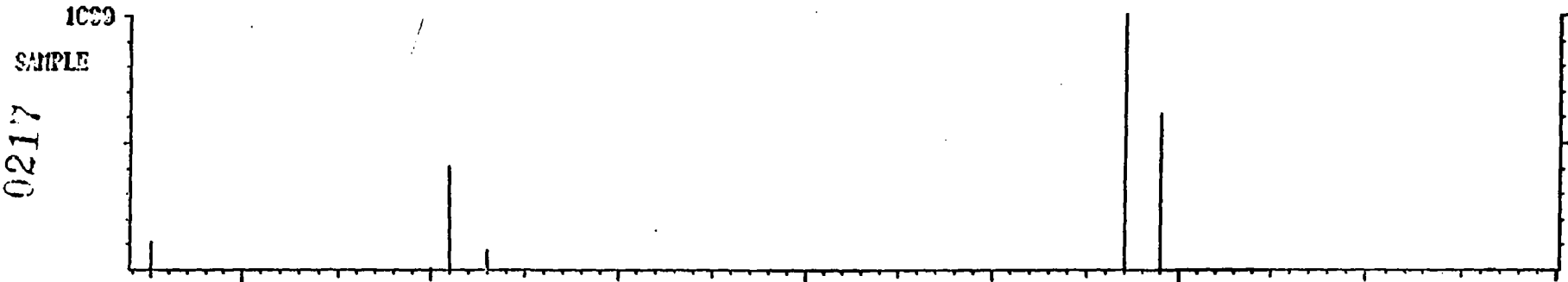
40

50

60

70

80

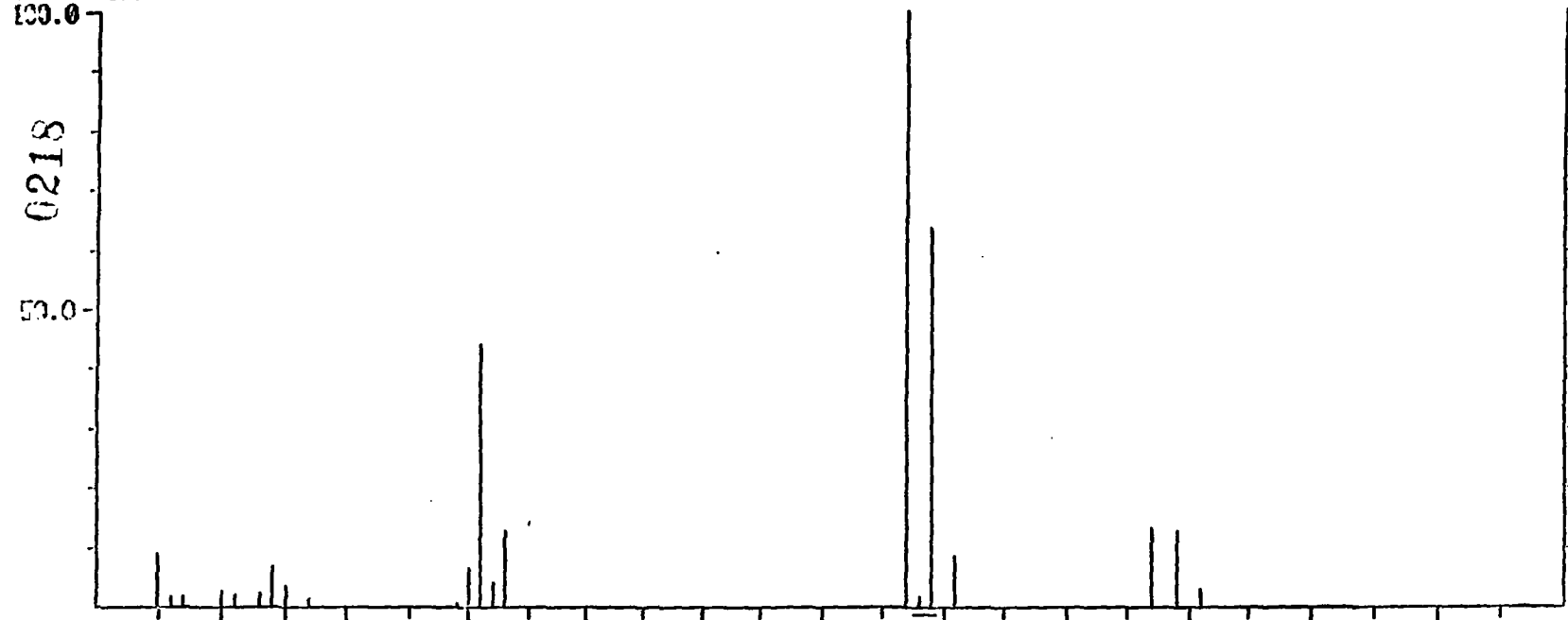


10/15/84 6:32:09 + 11:54
SAMPLE: F4.D.VER.C01C0.C0.V.MA.MA.NAS
DATA: 4EU12056V04 0264

CALI: F4CAL 01

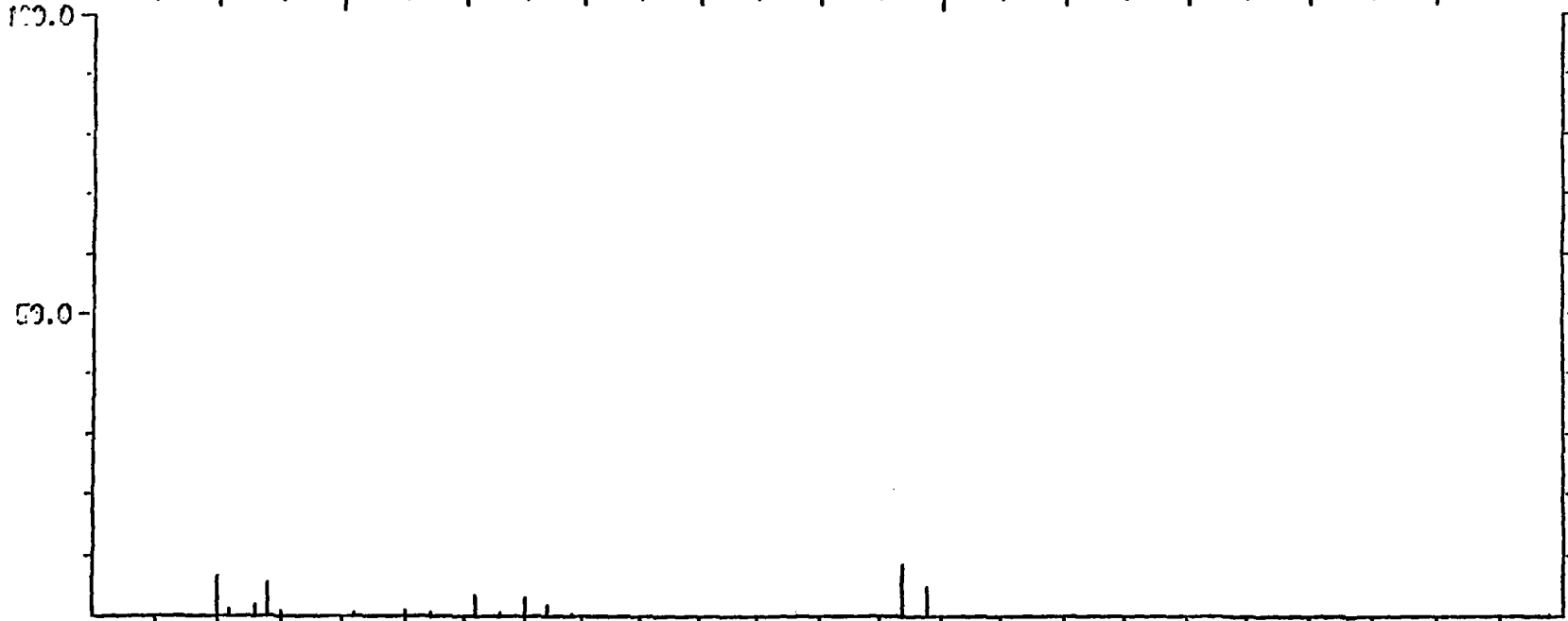
BIC: 150287.7 10701.

SECOND SPECTRUM
100.0



45272.

100.0



45272.

m/e

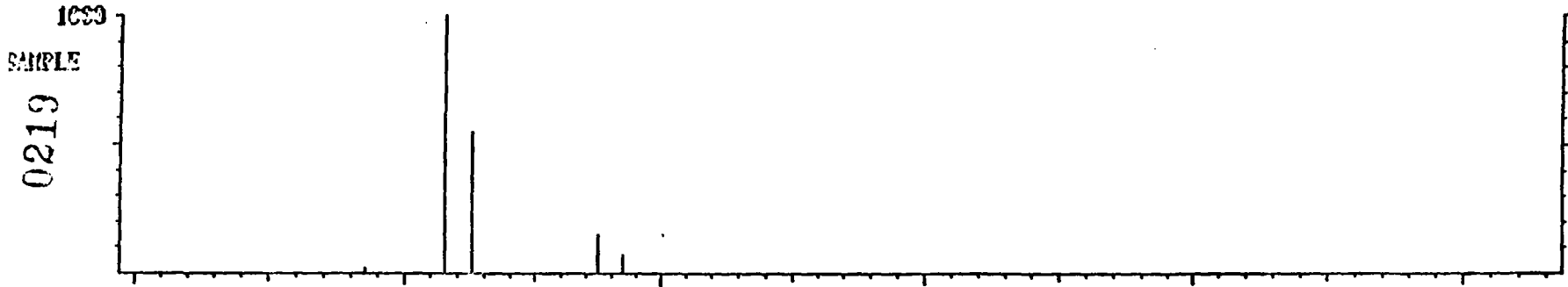
50

100

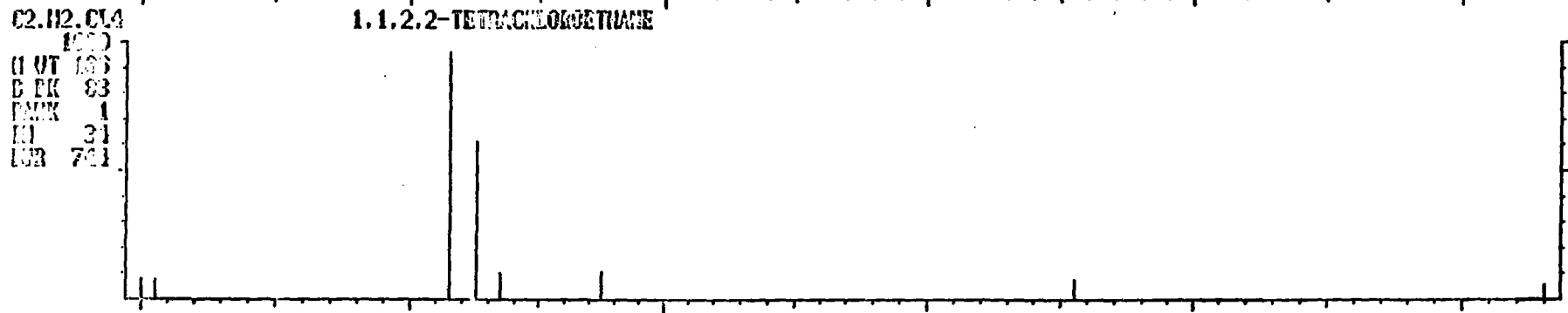
12/14/84 15:26:09 + 21:42
SAMPLE: F4.D.EPA.AB169.C3.V.1:1.GAS
ENHANCED (S 15B 2N 0T)

CALI: F4CAL 8 1

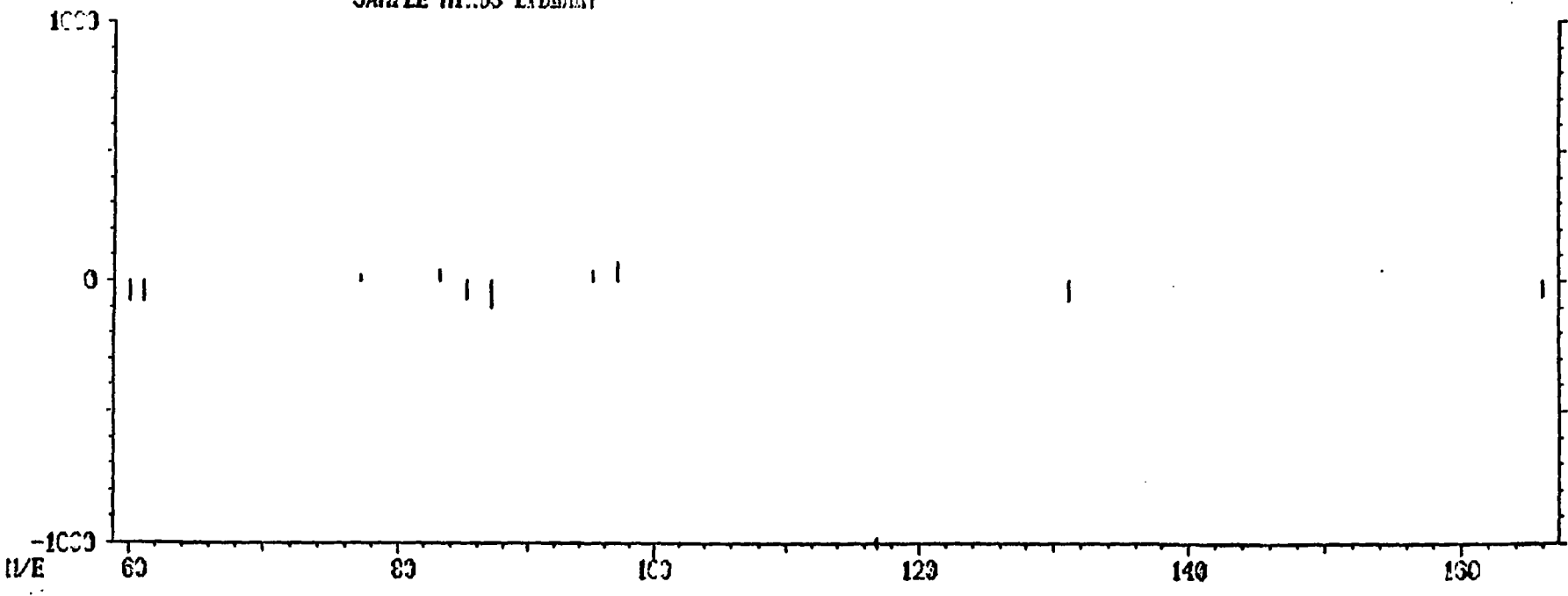
BIC: 2339.



1,1,2,2-TETRACHLOROETHANE



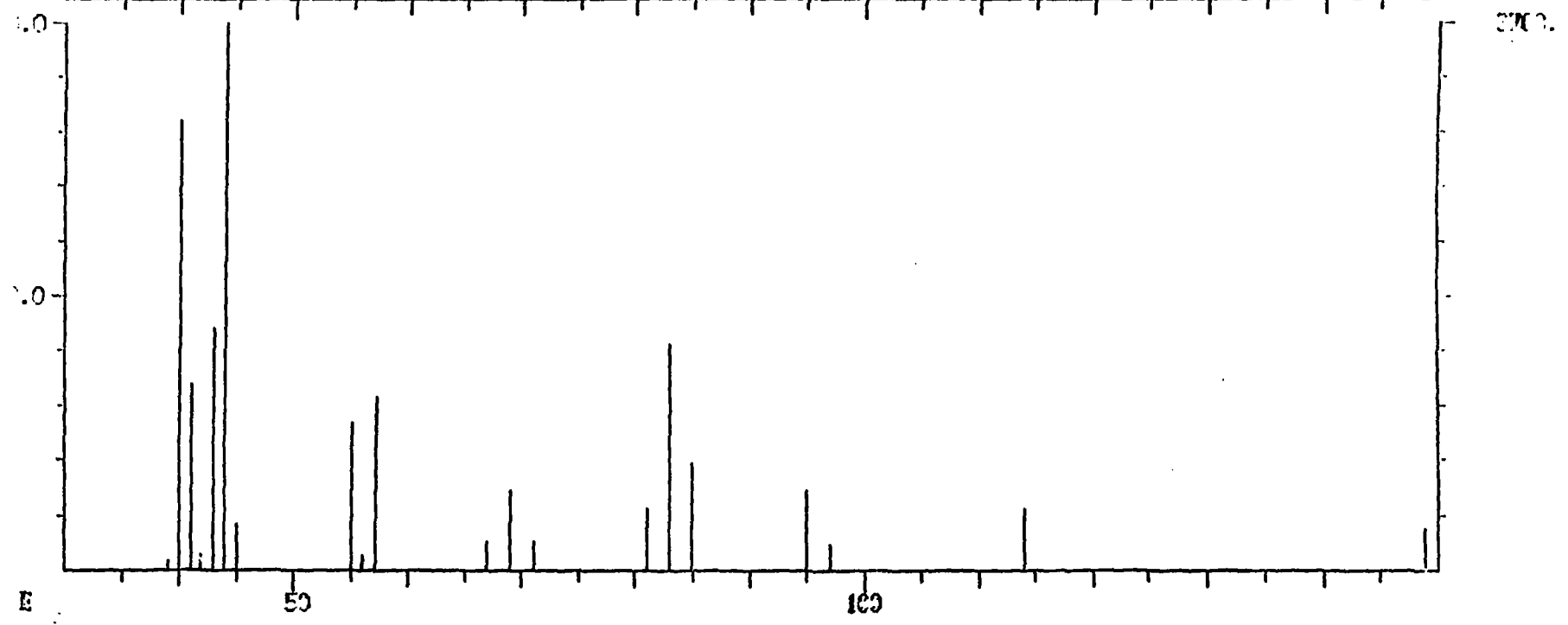
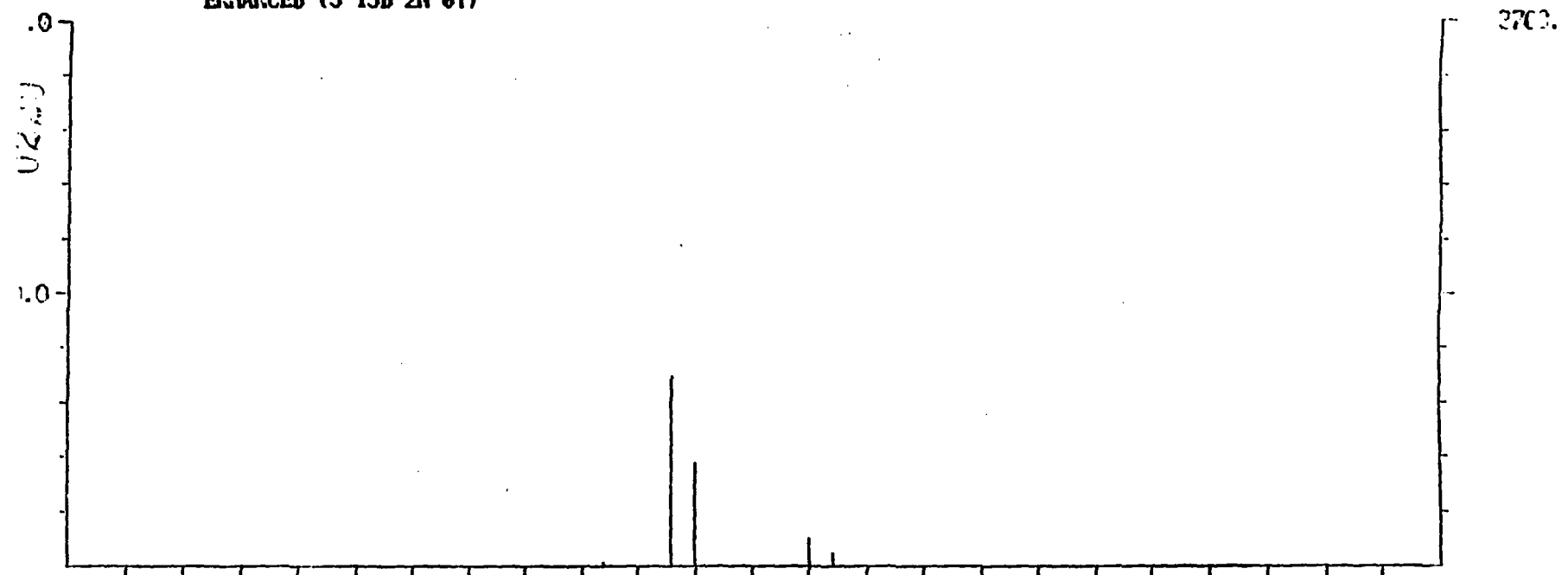
SAMPLE MINUS LIBRARY



12/14/84 15:26:09 + 21:42
SAMPLE: F4.D.EPA.AB169.C9.V.1:1.NAS
ENHANCED (S 15B 2N 07)

CALI: FACAL 01

RIC: 2339.7 17559.



E

RIC
12/26/84 14:26:00
SAMPLE: AB169
RANGE: G 1.2550

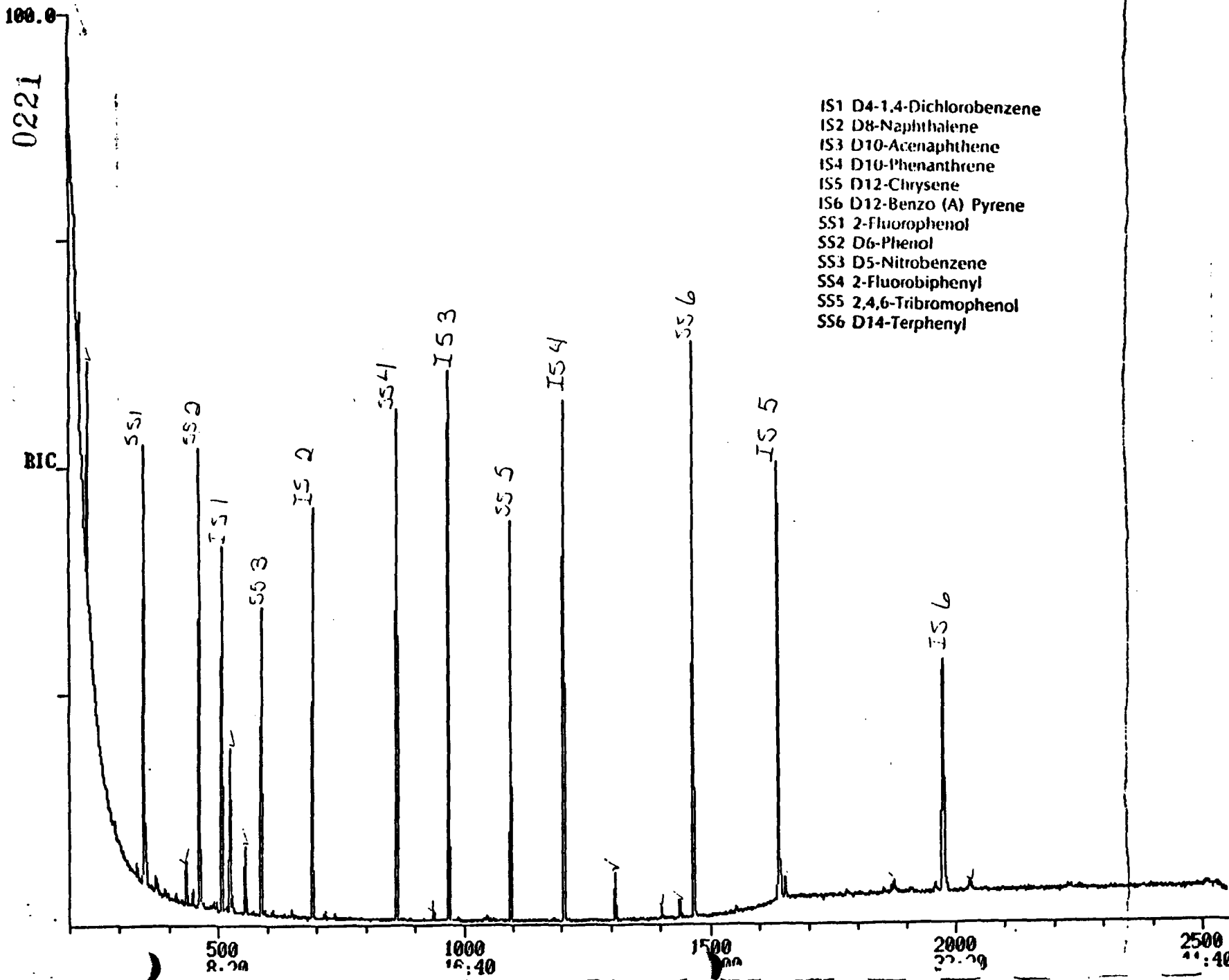
1:1.12/10/84
LABEL: N 0. 4.0

DATA: 2EU12056C04 #1
CALI: F2CAL #1

SCANS 200 TO 2550

QUAN: A 0. 1.0
BASE: U 20. 3

444928.



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

0222

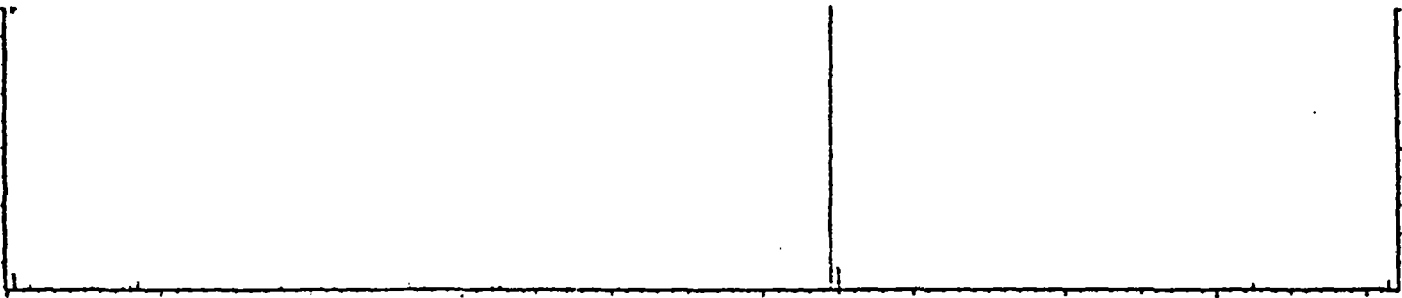
SAMPLE ID. 08169 1:1,12/10/84 FROM DISK# 0
LAB ID. 2EU12056C04 PROCESSED 00/00/00
CLIENT EPA ANALYST LK
DATE INJECTED 12/26/84 14:26:00 VERIFIED BY
STD. ID. CAL DIL. FACTOR 1.00

EN	SCAN#	COMPOUNDS	AMOUNT (ug/L)	AREA
13	1309	DI-N-BUTYLPHTHALATE	5.6 UG/ML	33511
14	1439	PYRENE	1.9 UG/ML	10435
15	1638	BENZO(A)ANTHRACENE	2.4 UG/ML	12840
16	1652	BIS(2-ETHYLHEXYL)PHTHALATE	3.0 UG/ML	15240
17	1644	CHRYSENE	2.6 UG/ML	14204
18	1875	BENZO(K)FLUORANTHENE	2.6 UG/ML	15120

LIBRARY SEARCH
12/26/84 14:26:00 + 21:49
SAMPLE: 08169 1:1,12/10/84
ENHANCED (S 1:0 2H 01)

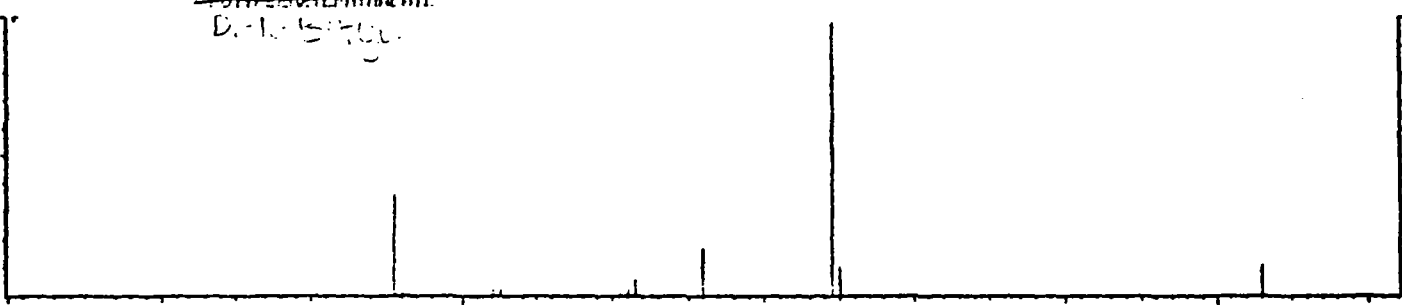
DATA: ZE112036C04 #1389 BASE M/E: 149
CAL: F2CAL # 1 RIC: 17903.

1000
SAMPLE



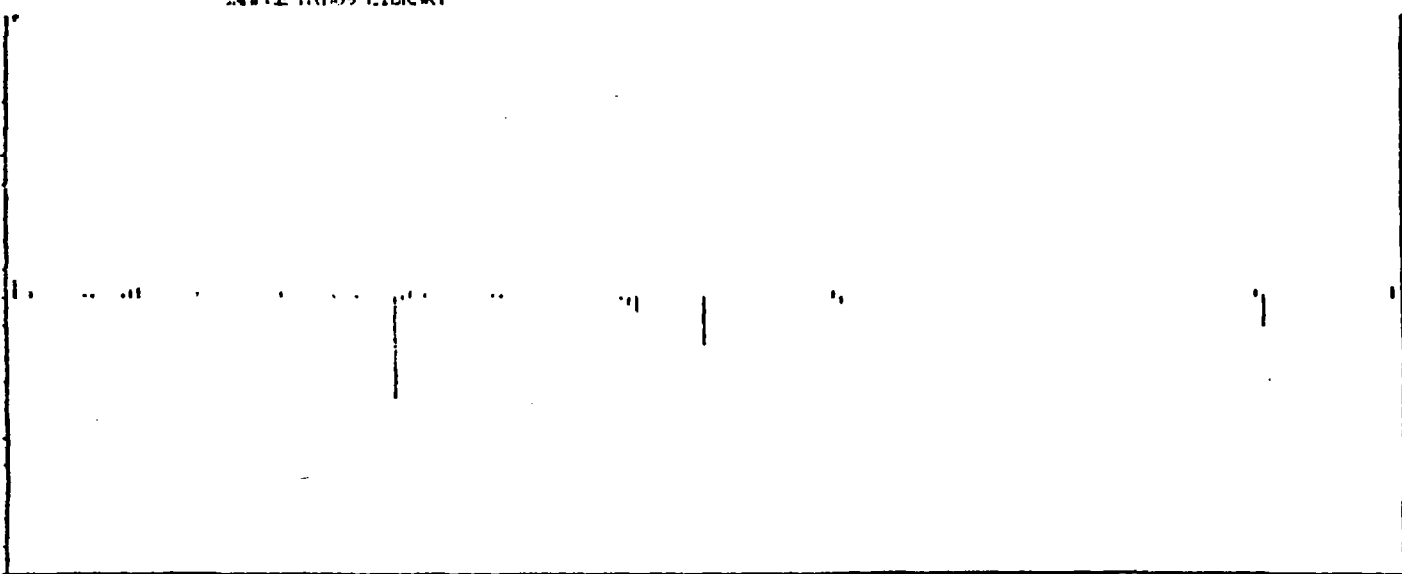
1000
M WT 136
S PK 149
LACK 1
RT 74
RPT 858

~~POLY-ETHYLENE TEREPHTHALATE~~
D. H. S. H. G.



SAMPLE MINUS LIBRARY

1000



-11404
M/E

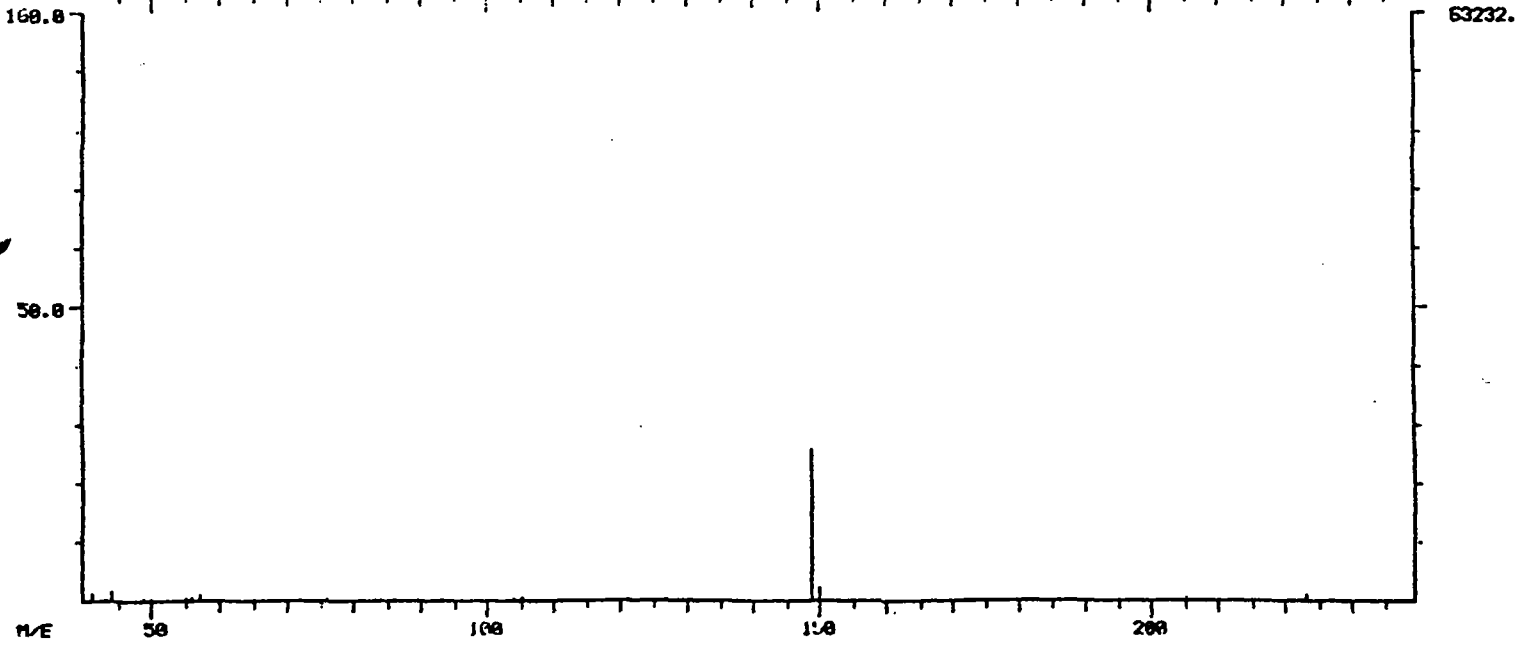
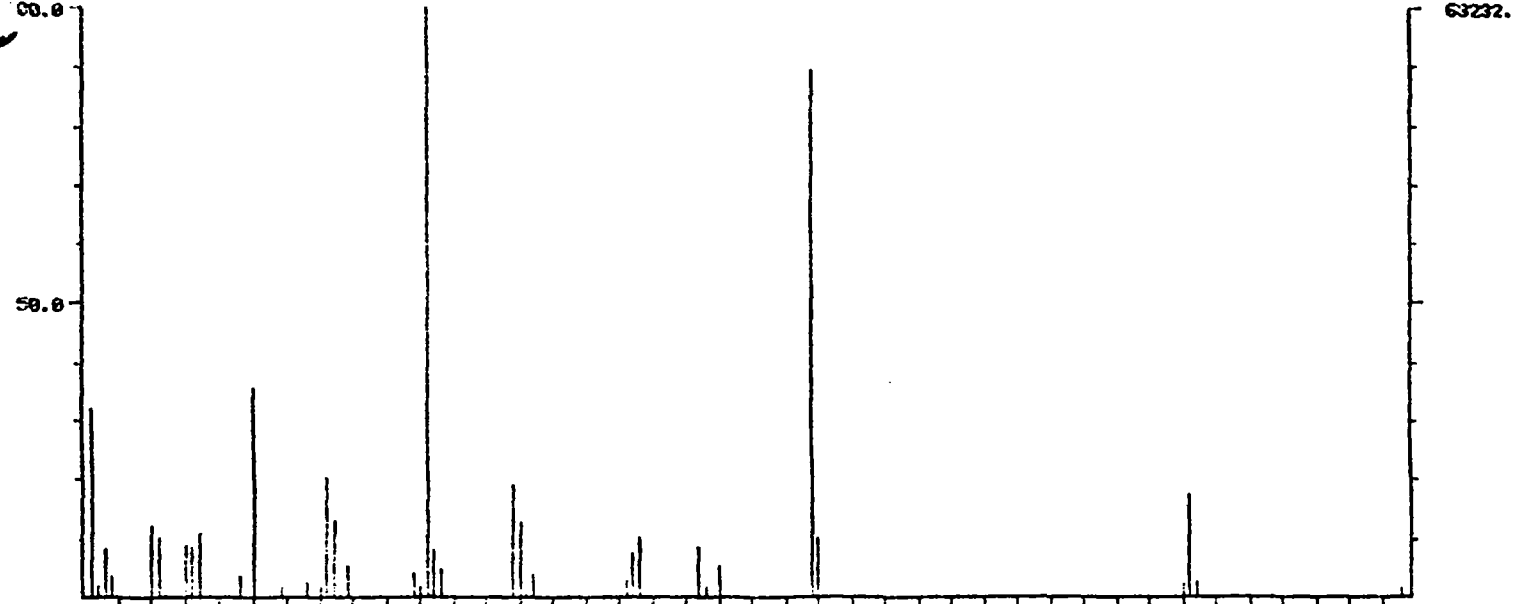
40 50 100 120 140 160 180 200 220

DUAL MASS SPECTRUM
11/09/84 05:00:00 + 20:34
SAMPLE: F2.U.CAL, 00439.100.C, H0:NA, NRS
DATA: 2EU1205004 #1369

DATA: EPS1D #1504
CAL: F2CAL #1

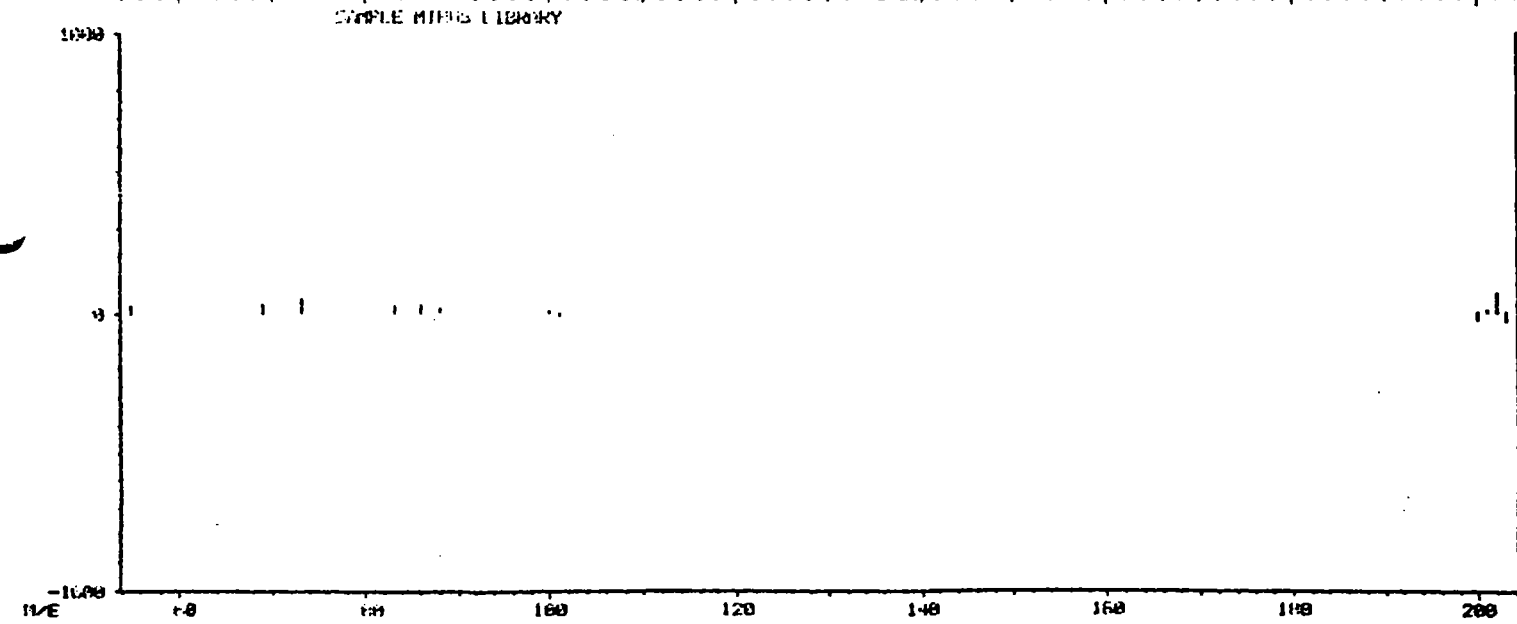
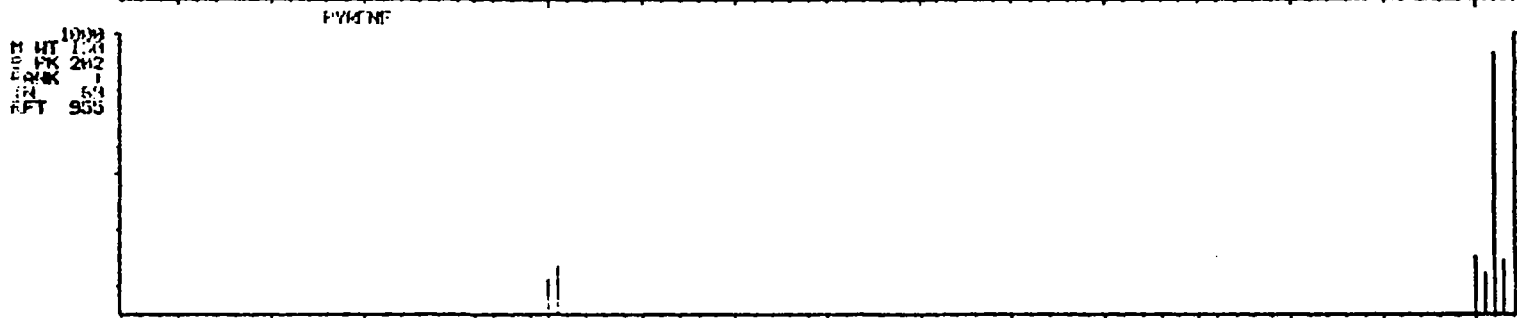
BASE N/E: 31/ 149
RIC: 316327.7 25215.

SECOND SPECTRUM



LIBRARY SEARCH
12/26/84 14:25:00 + 23:50
SAMPLE: 08169 1:1, 12/16/84
ENHANCED (S 1.58 2N BT)

DATA: 2EU12056C04 #1139 DATE: M/E: 202
CAL: F2CAL. # 1 RIC: 6719.



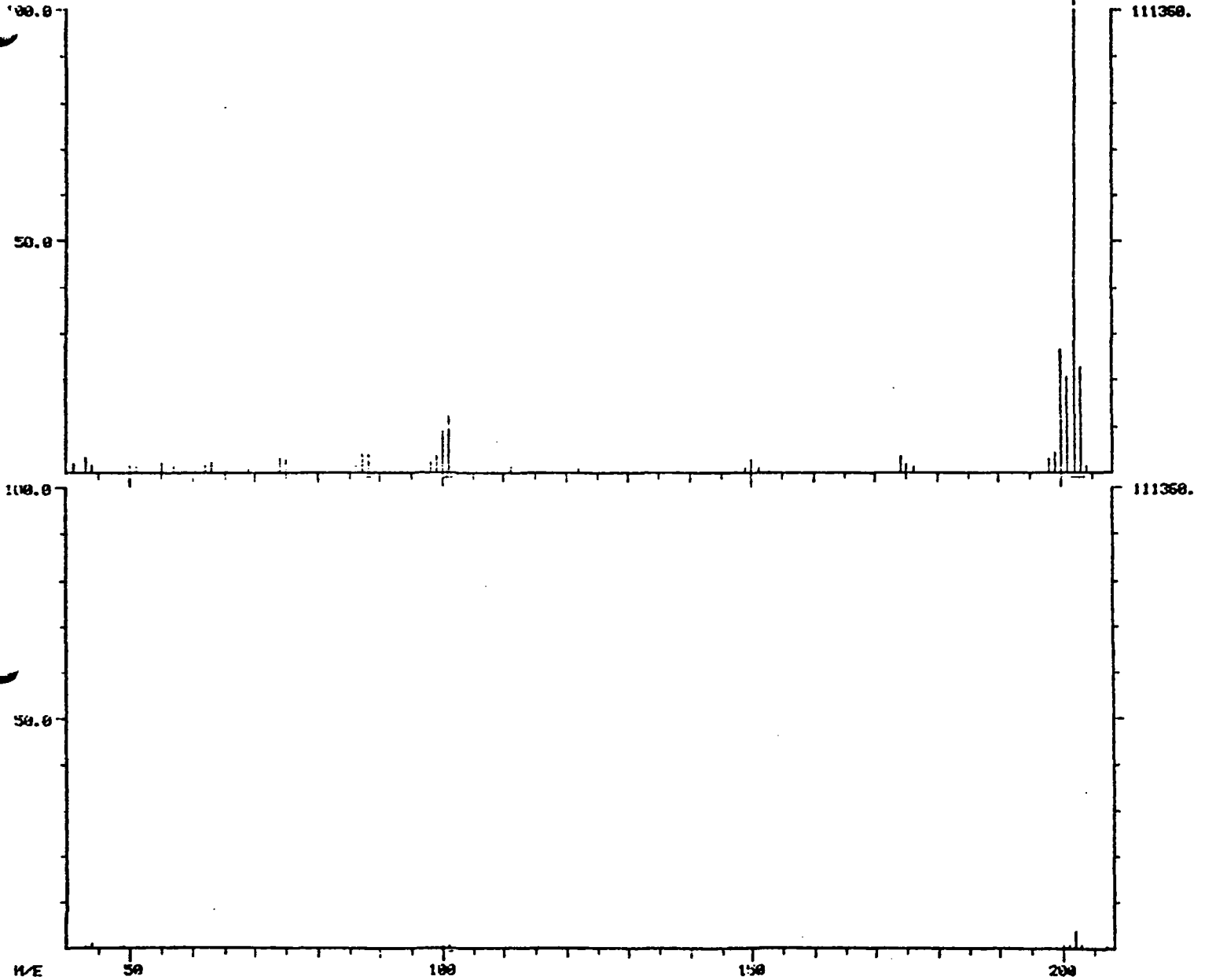
1000
HT 1.41
PK 202
K 1
6.4
FT 955

DUAL MASS SPECTRUM
11/09/84 4:28:00 + 23:42
SAMPLE: F2.CAL, 10000, 100, C, H, N, NA, NAB
DATA: 7EU12056084 814.89

DATA: EPSTD 01422
LN 1: F2CAL 01

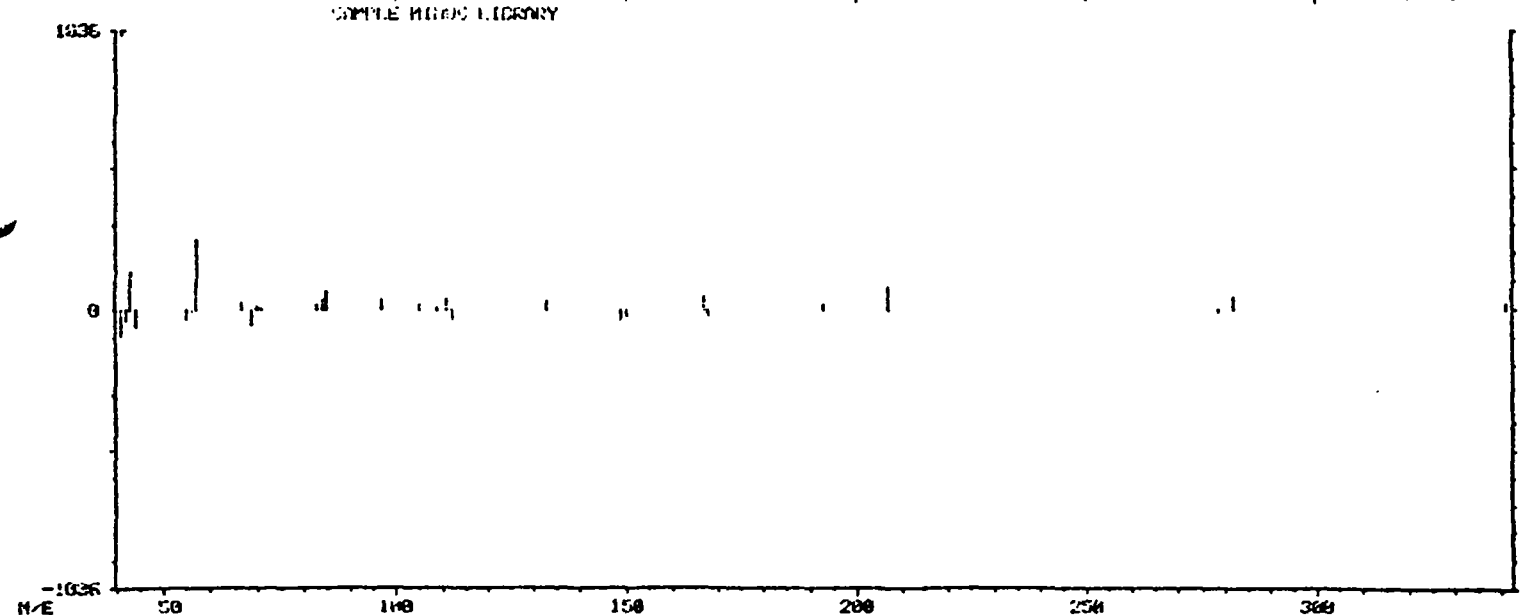
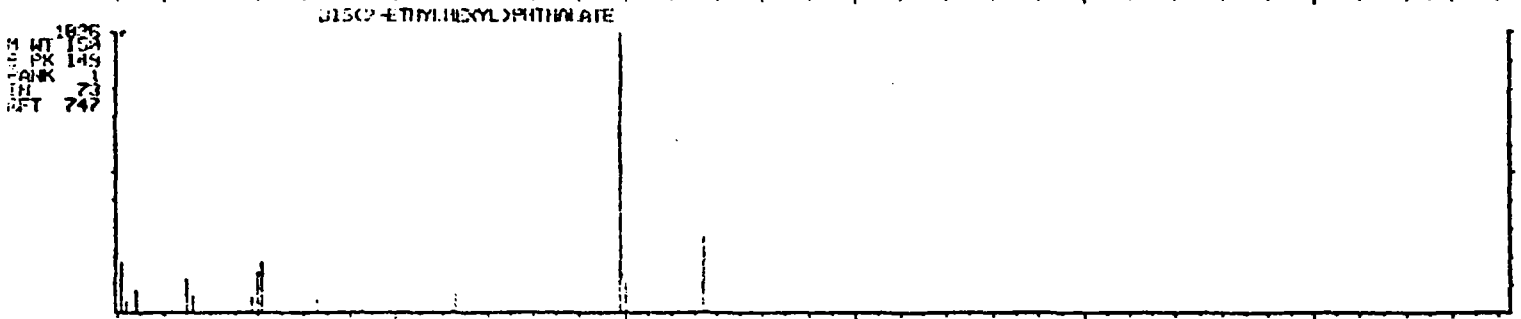
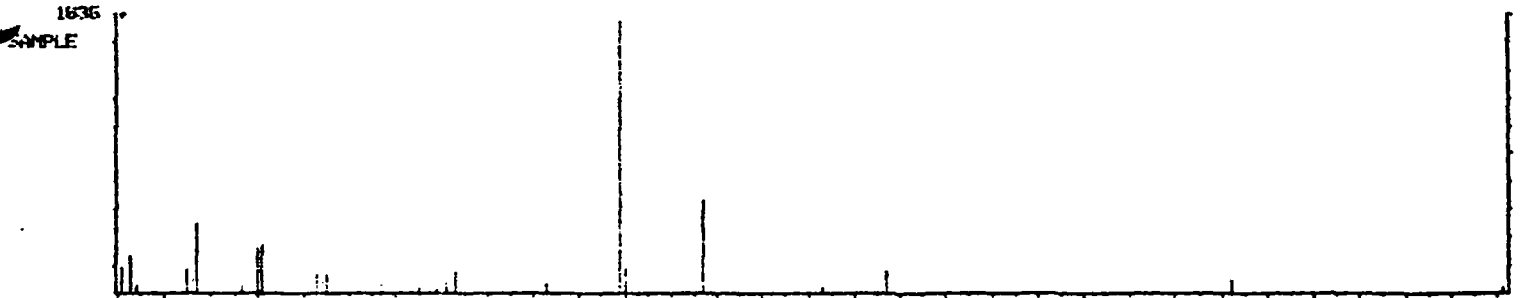
BASE M/E: 202/ 202
RTC: 205103.7 18783.

SECOND SPECTRUM



LIBRARY SEARCH
12/26/04 14:06:00 + 27:32
SAMPLE: P2154 11/12/10/04
ENHANCED (5 108 2H 8D)

DATA: 2EU12850004 #1652 BASE N/E: 149
CAL: F2CAL # 1 RIC: 0030.

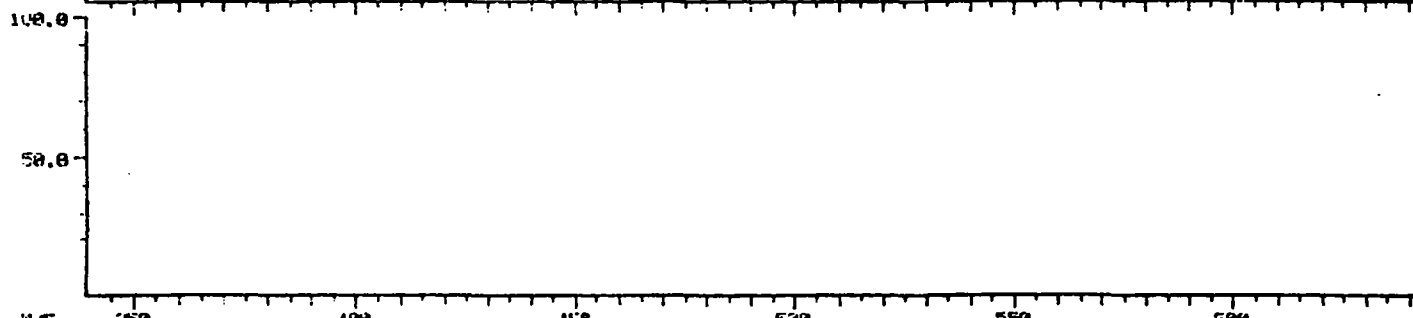
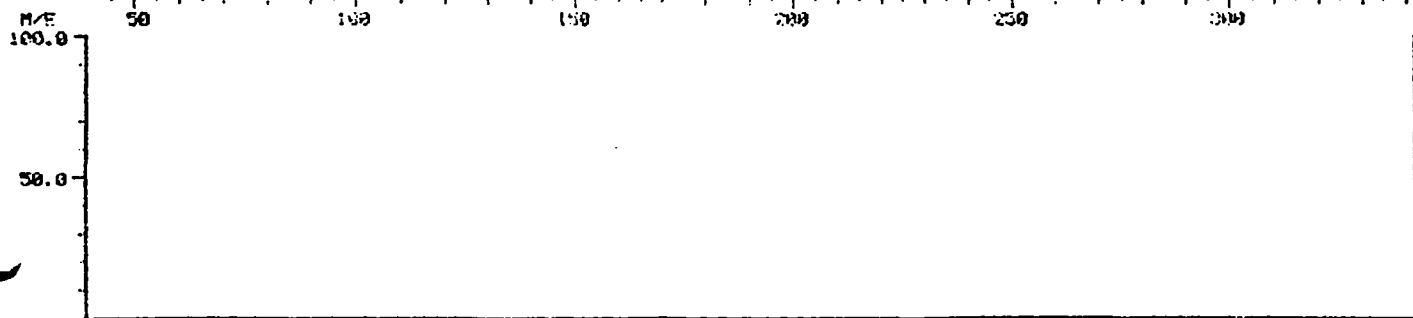
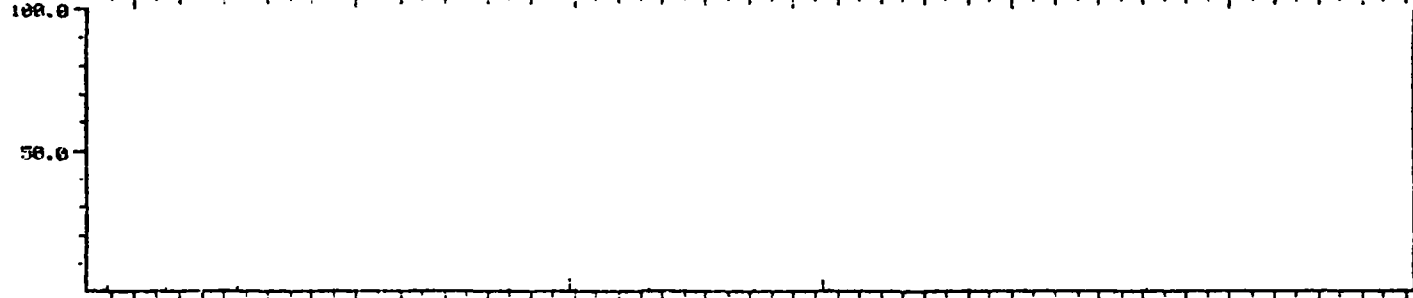
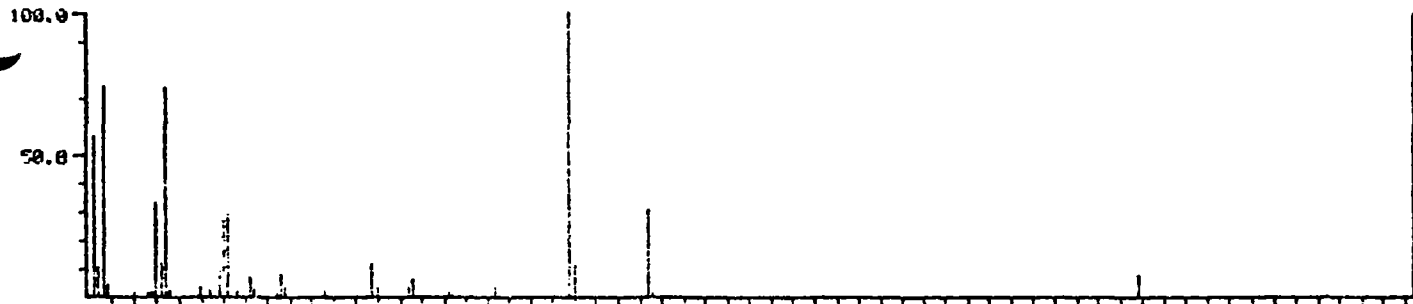


DUAL MASS SPECTRUM
11/09/04 08:12:00 + 27:09
SAMPLE: F201.CAL, 00000, 011.C, NO:NA, N05
DATA: 201205001 #1652

DATA: EPSTD 01673
CAL: F2CAL 01

BASE M/E: 149/ 149
R1C: 416255.7 27335.

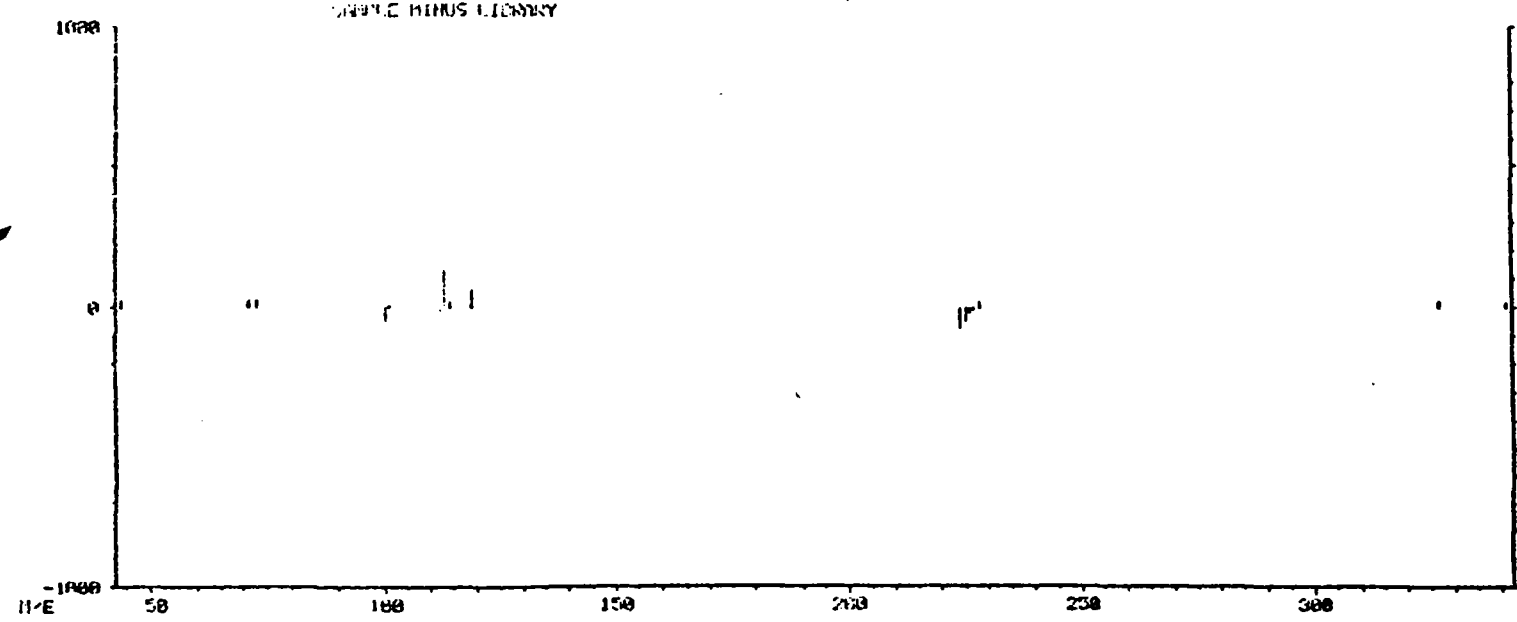
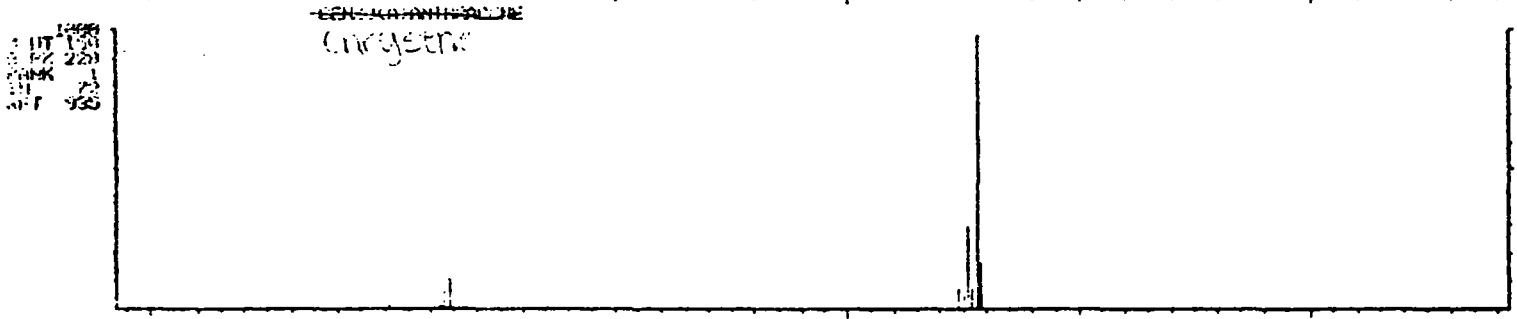
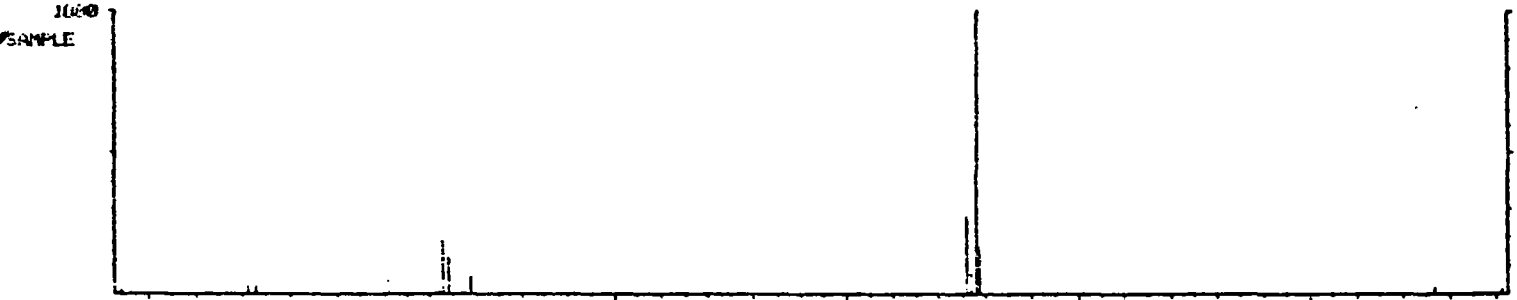
SECOND SPECTRUM



LIBRARY SEARCH
12/26/84 14:28:00 + 27:24
SAMPLE: A8109 11.12/18/84
ENHANCED (S 1SR 2N 0T)

DATA: 25U12856C04 41644
CALI: F2CAL # 1

PAGE N/E: 228
KIT: 6233.

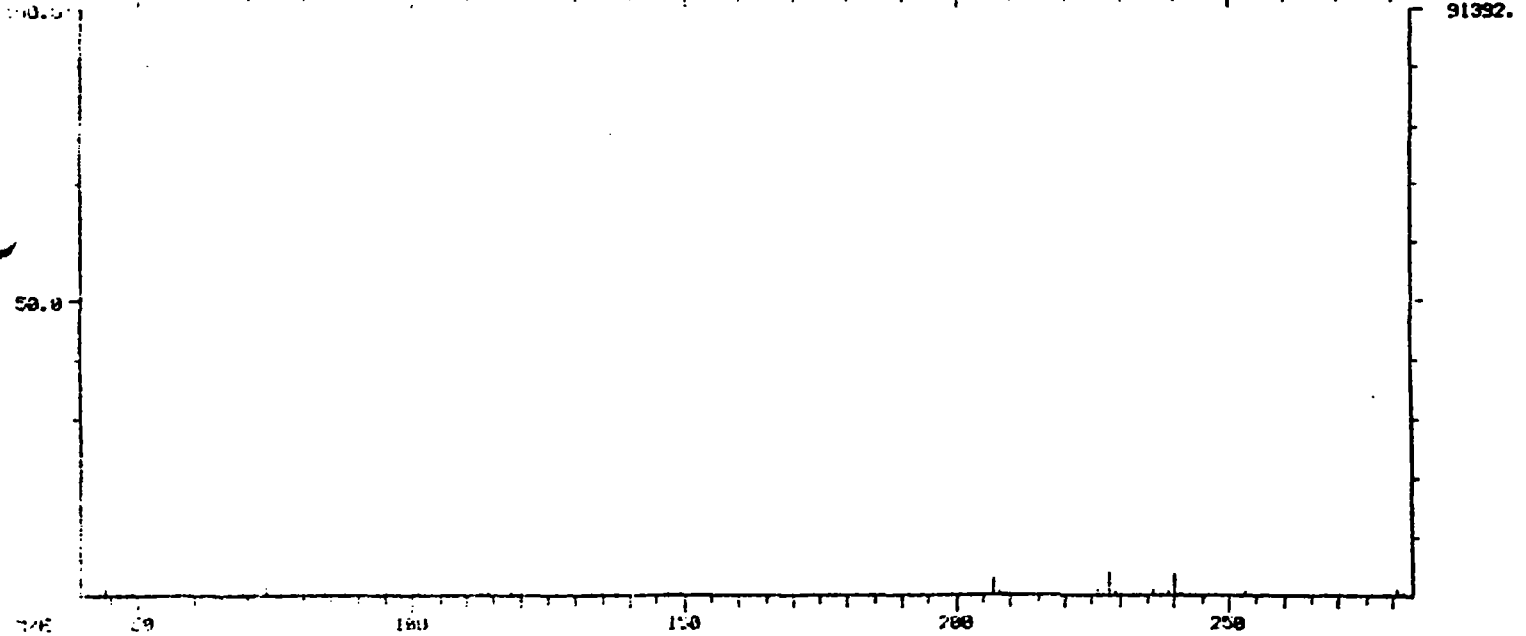
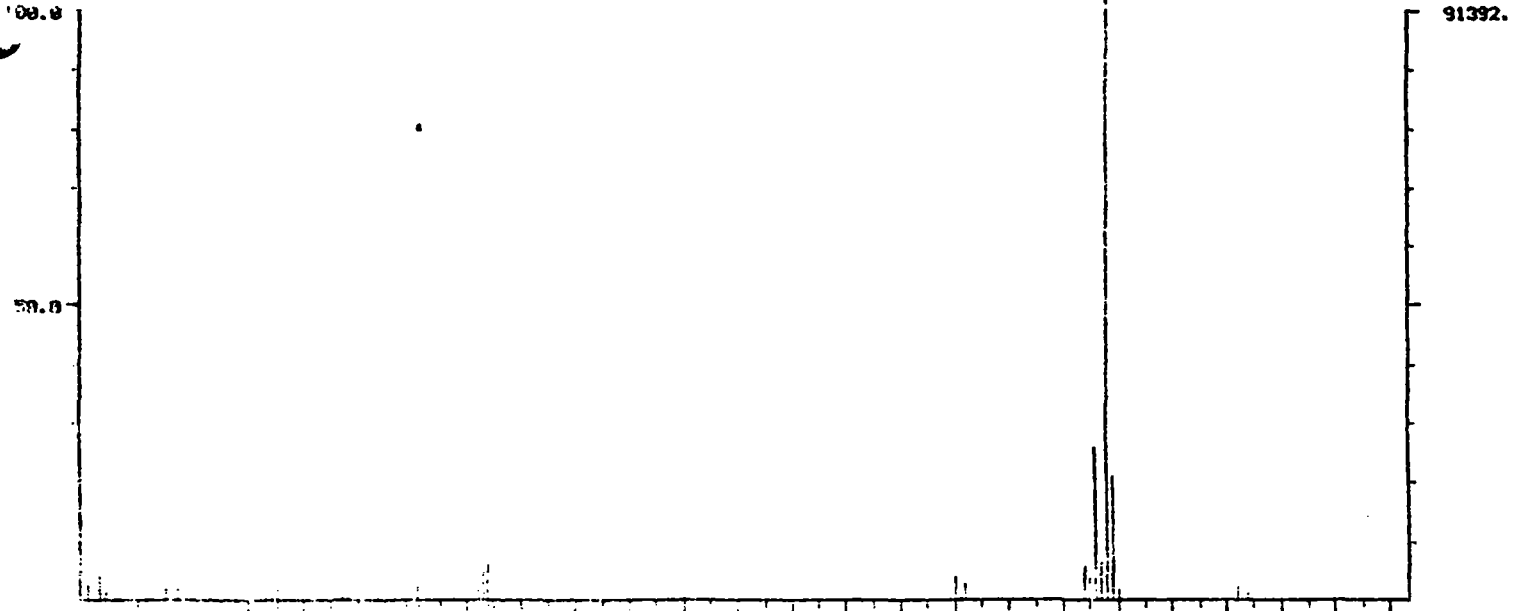


DUAL MASS SPECTRUM
11/09/84 4:30:00 + 26:56
SAMPLE: 8.210.001.00599.00.C.19:NA.N03
DATA: DEU12056064 41844

DATA: EPSTD #1516
COL1: F2001 41

BASE PE: 728/ 228
RIC: 207371.7 20535.

SECOND SPECTRUM

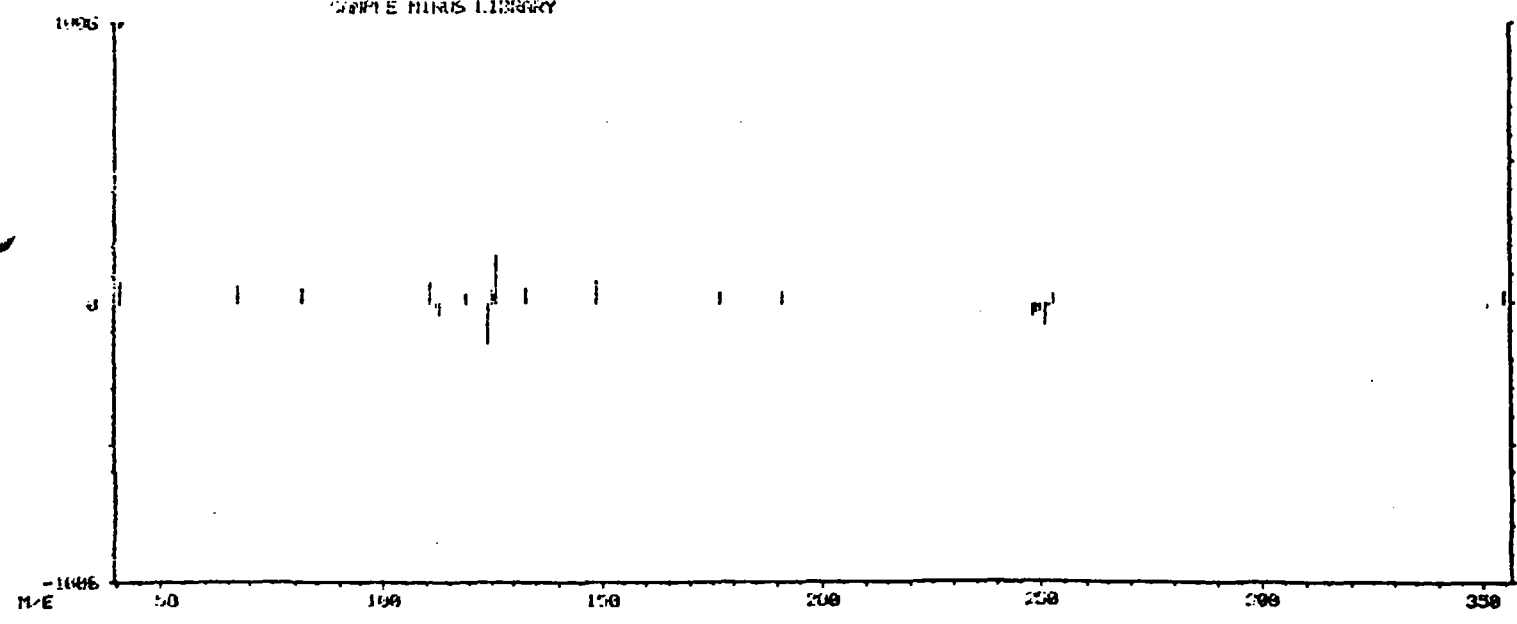
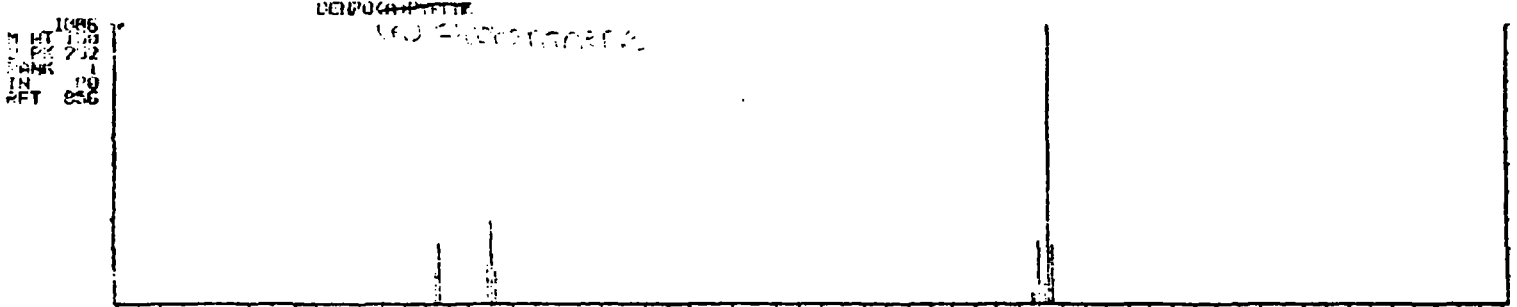


0231

LIBRARY SEARCH
12/26/84 14:46:00 + 21:15
SAMPLE: 00159 1:12/10/84
ENHANCED (S 158 2N 6T)

DATA: 23U12050001 #1975
CALL: FZCAL # 1

BASE M/E: 252
R/C: 1823.



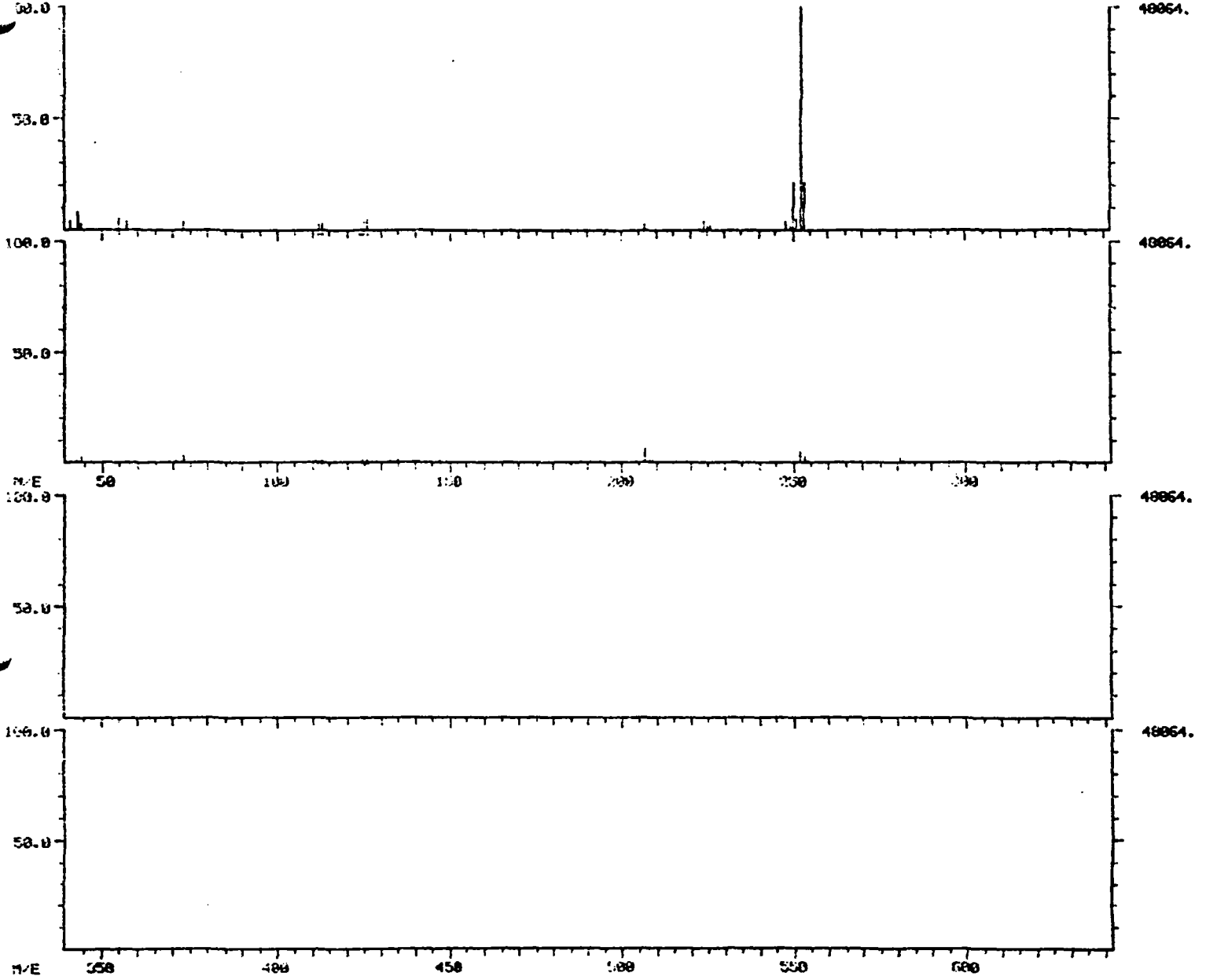
0232

DUAL MASS SPECTRUM
11/09/84 01:00:00 + 01:00
SAMPLE: F2.D. CHEL. 00000, P0.C. NO: NA. HAS
DATA: 1F012006000 01875

DATA: EPSTD 01910
CAL: F2CAL #1

BASE N/E: 252/ 107
RIC: 101307.7 20237.

SECOND SPECTRUM



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12056C04.TI

2/26/84 14:26:00

SAMPLE: AB169 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

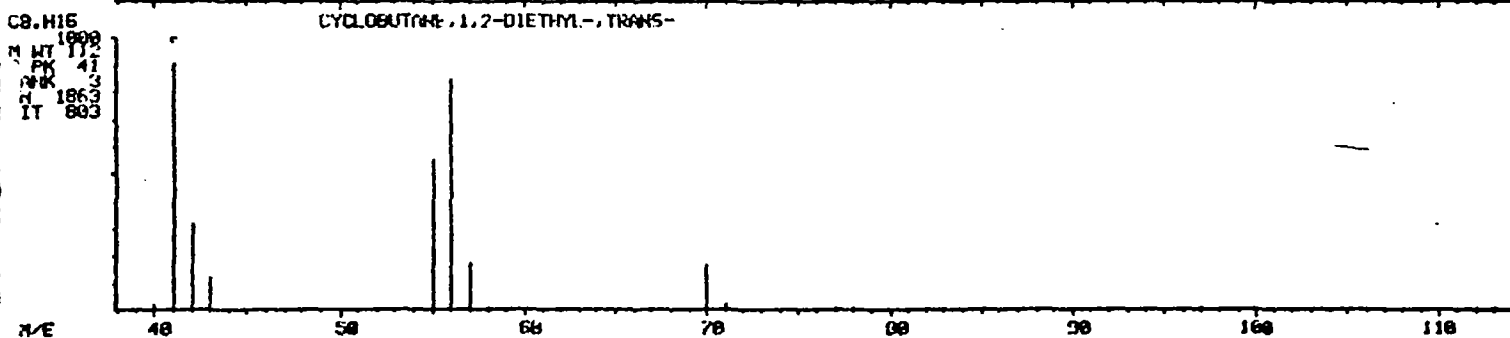
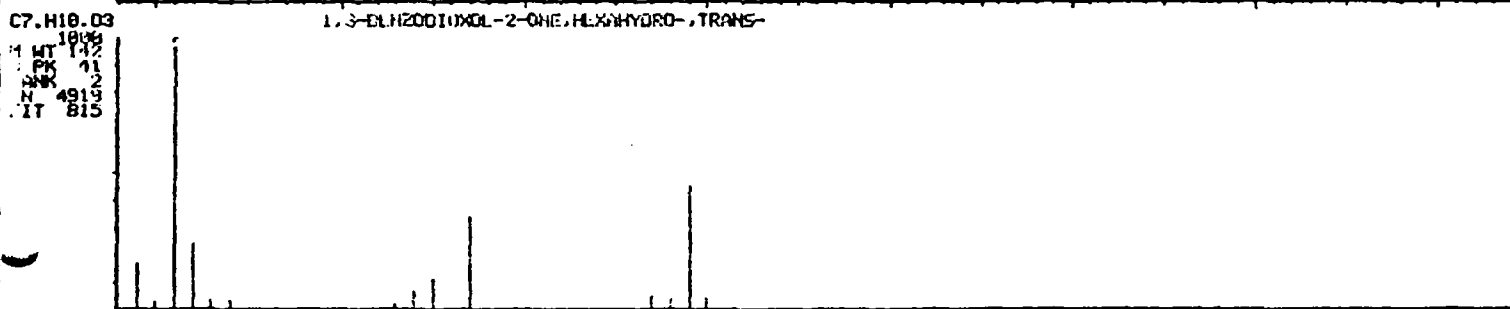
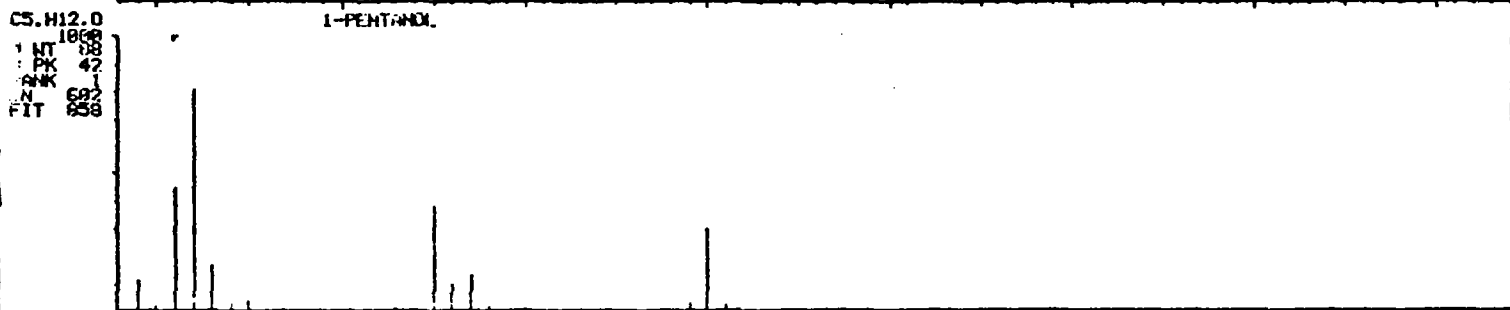
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 1-PENTANOL
- 8 BENZALDEHYDE
- 9 1-PROPENE,3,3,3-TRICHLORO-
- 10 PENTANE,2,2,3-TRIMETHYL-
- 11 HEPTANE,4-AZIDO-
- 12 CYCLOHEXANOL,4-CHLORO-,TRANS-
- 13 1,2-CYCLOHEXANEDIOL
- 14 2-PROPANONE,1,1,3,3-TETRACHLORO-
- 15 PYRENE
- 16 PHENOL,4-(1,1,3,3-TETRAMETHYLBUTYL)-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	508	8:28	1	1.000	A BB	74442.	40.000 UG/ML	5.49
2	136	692	11:32	2	1.000	A BB	223093.	40.000 UG/ML	5.49
3	164	970	16:10	3	1.000	A BB	151299.	40.000 UG/ML	5.49
4	188	1205	20:05	4	1.000	A BB	221919.	40.000 UG/ML	5.49
5	240	1639	27:19	5	1.000	A BB	222049.	40.000 UG/ML	5.49
6	264	1976	32:56	6	1.000	A BB	201889.	40.000 UG/ML	5.49
7	TOT	336	5:36	1	0.661	A BU	10283.	16.578 UG/L	2.28
8	TOT	376	6:16	1	0.740	A BB	8520.	13.736 UG/L	1.89
9	TOT	436	7:16	1	0.858	A BB	40106.	64.656 UG/L	8.88
10	TOT	449	7:29	1	0.884	A BB	19512.	31.457 UG/L	4.32
11	TOT	497	8:17	1	0.978	A UB	4100.	6.609 UG/L	0.91
12	TOT	525	8:45	1	1.033	A BB	146209.	235.711 UG/L	32.36
13	TOT	556	9:16	1	1.094	A BB	60101.	96.893 UG/L	13.30
14	TOT	939	15:39	3	0.968	A BB	2679.	2.125 UG/L	0.29
15	TOT	1409	23:23	4	1.164	A BB	12912.	6.983 UG/L	0.96
16	TOT	2031	33:51	6	1.029	A UB	22982.	13.662 UG/L	1.88

LIBRARY SEARCH
12/26/84 14:26:00 + 5:36
SAMPLE: 08133 1:12/10/84
ENHANCED (S 100 2N 0T)

DATA: 2EU1285G084 # 336 BASE M/E: 83
CALI: FZCAL # 1 RIC: 4631.



LIBRARY SEARCH
12/26/84 14:26:00 + 6:16
SAMPLE: AB169 1:1.12/18/84
ENHANCED (S 15B 2H 87)

DATA: 2E112856C04 # 376 BASE M/E: 91
CALI: F2CAL # 1 RIC: 3963.



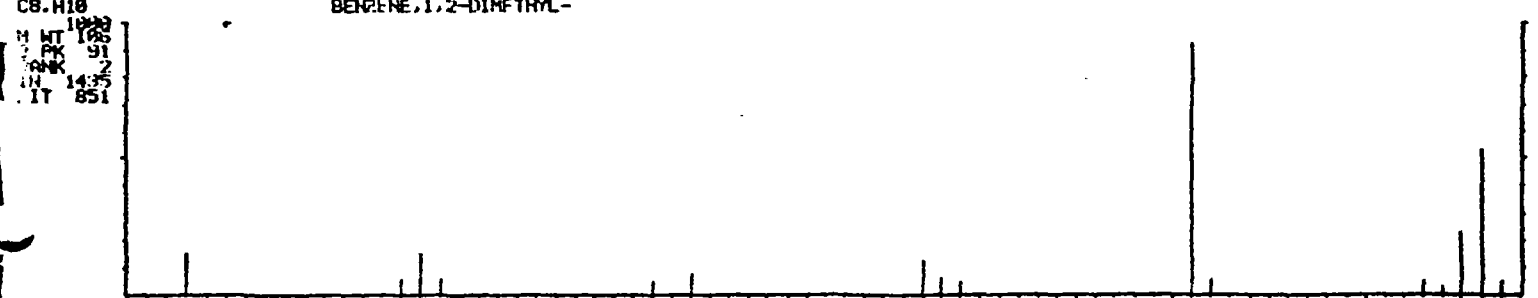
BENZALDEHYDE

C7.H6.O
M WT 106
PK 106
SANK 1
IN 1423
FIT 674



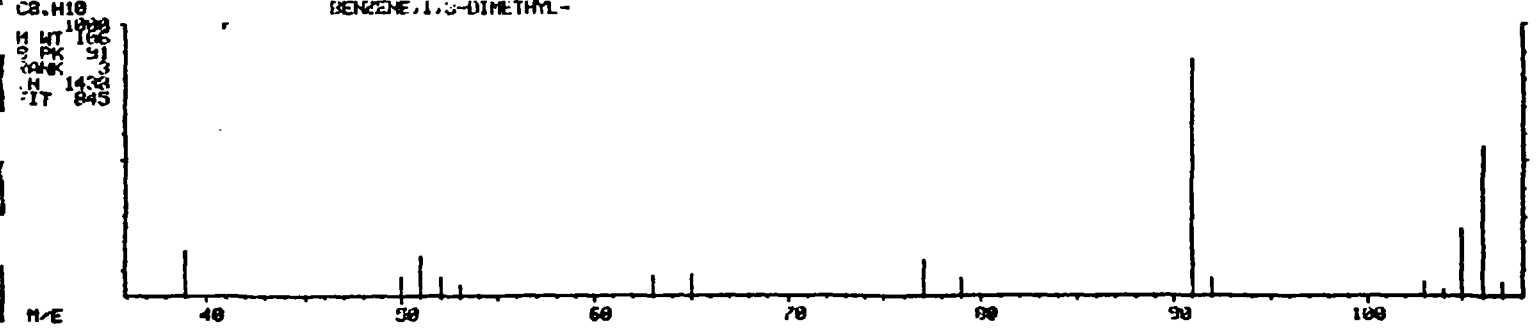
BENZENE, 1,2-DIMETHYL-

C8.H18
M WT 106
PK 91
SANK 2
IN 1435
FIT 851



BENZENE, 1,3-DIMETHYL-

C8.H18
M WT 106
PK 91
SANK 2
IN 1435
FIT 845

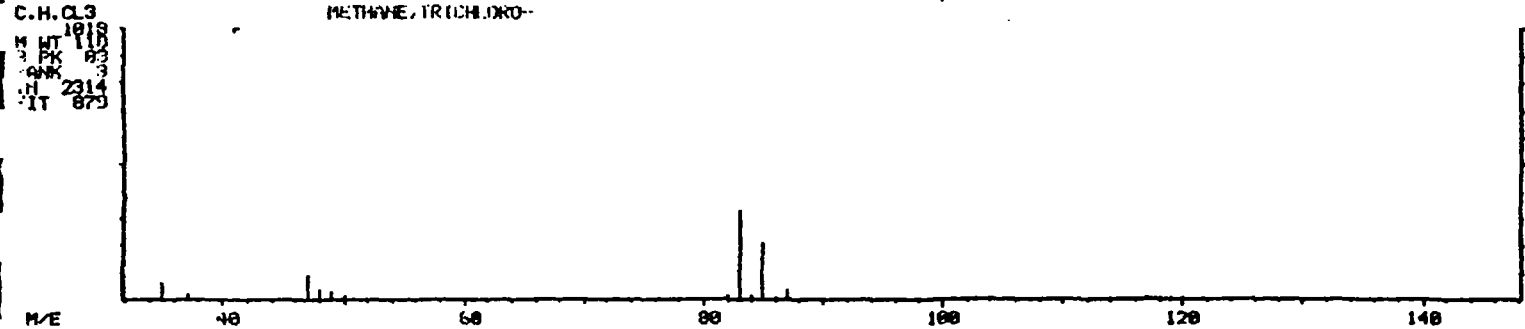
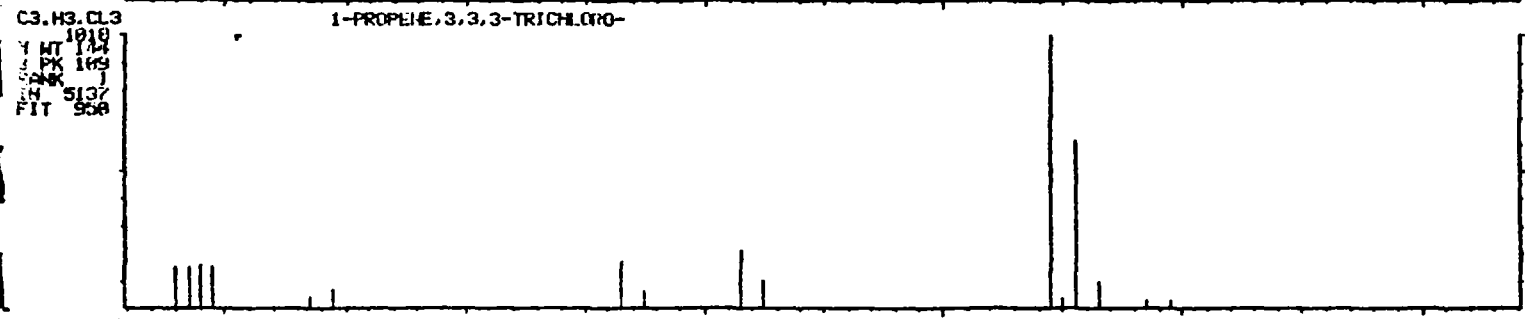
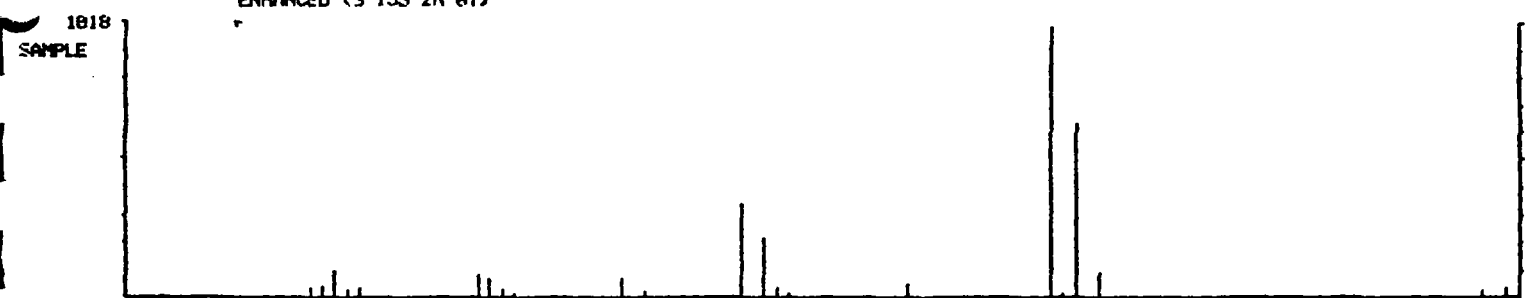


M/E

40 50 60 70 80 90 100

LIBRARY SEARCH
12/26/84 14:25:00 + 7:16
SAMPLE: AB159 1:1.12/10/84
ENHANCED (S 159 2H 0T)

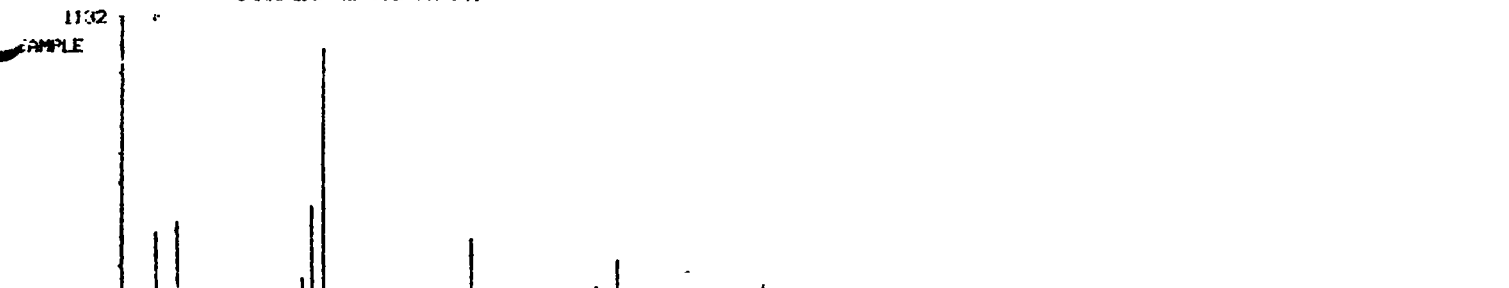
DATA: 2EU12056084 # 436 BASE M/E: 109
CAL: F2CAL # 1 RIC: 16415.



m/e 40 60 80 100 120 140

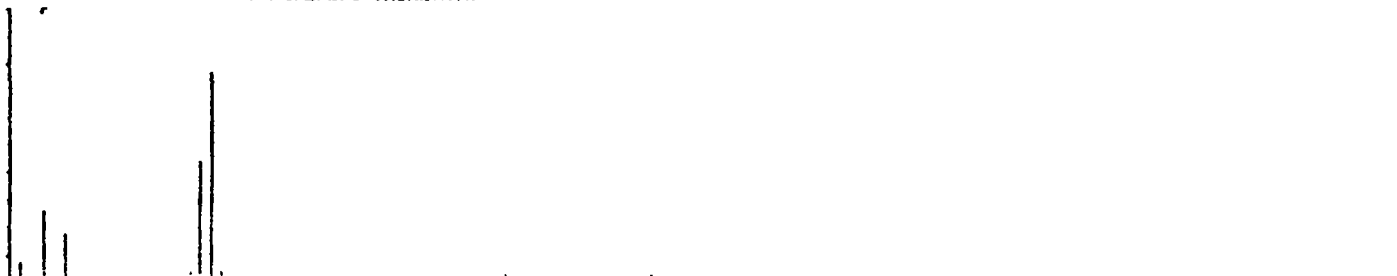
LIBRARY SEARCH
12/26/84 14:06:00 + 7:23
SAMPLE: ABIE9 1:1,12/16/84
ENHANCED (S 158 2N 61)

DATA: ZCU12056C04 # 449
CALI: F2CAL # 1
BASE M/E: 57
R/C: 7191.



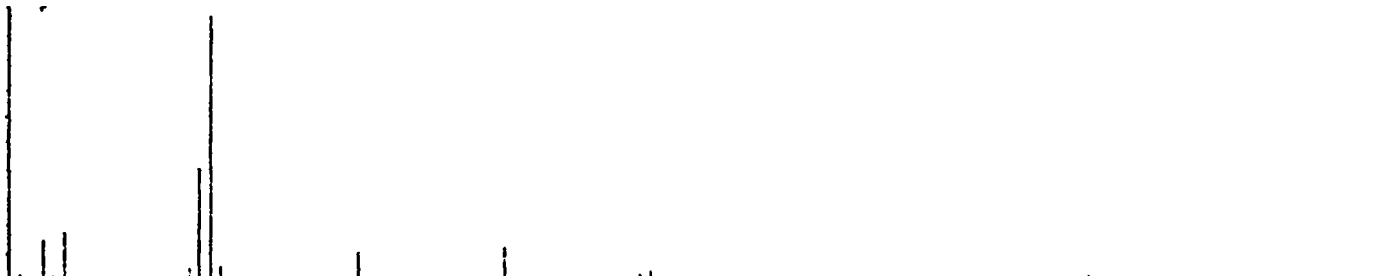
C8.H18
M HT 1132
3 PK 57
SANK 1
IN 2877
FIT 912

PENTANE, 2,2,3-TRIMETHYL-



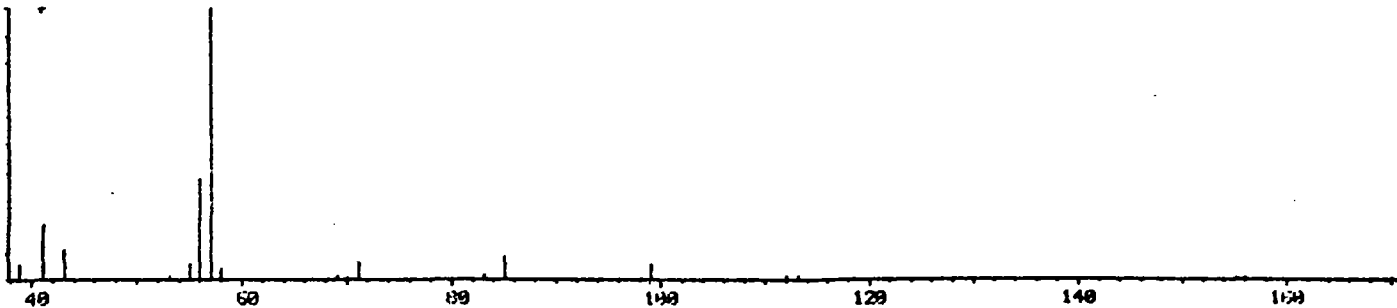
C11.H24
M HT 1132
3 PK 57
SANK 1
IN 6311
FIT 909

OCTANE, 2,2,6-TRIMETHYL-



C12.H26
M HT 1132
3 PK 57
SANK 3
IN 8973
FIT 891

HEPTANE, 2,2,4,6,6-PENTAMETHYL-



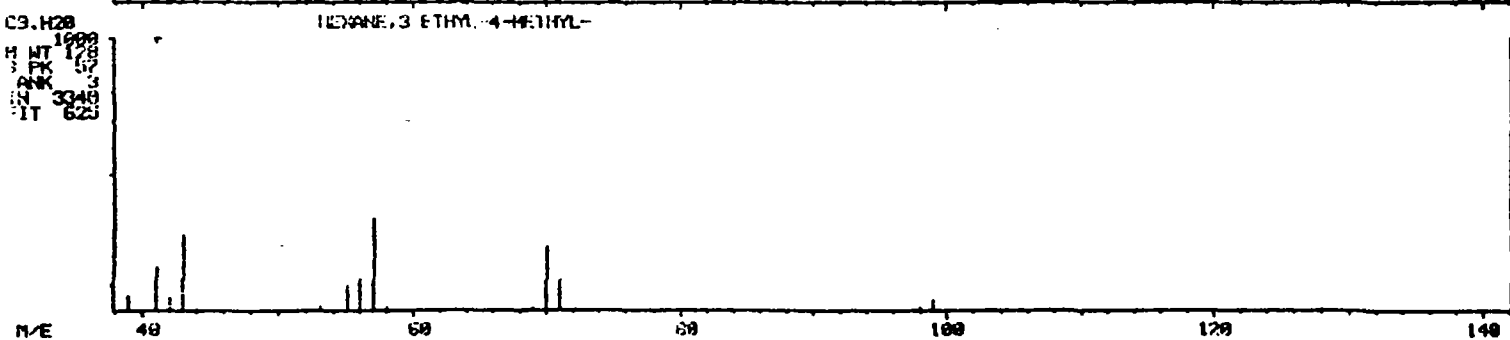
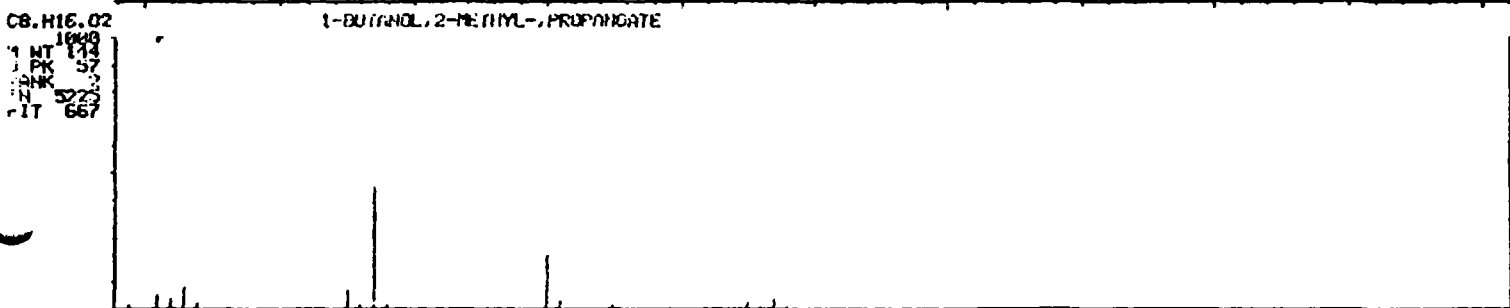
M/C

40 60 80 100 120 140 160

0238

LIBRARY SEARCH
12/26/84 14:26:00 + 8:10
SAMPLE: ASIG. 1:1.12/10/84
ENHANCED (S 158 2N BT)

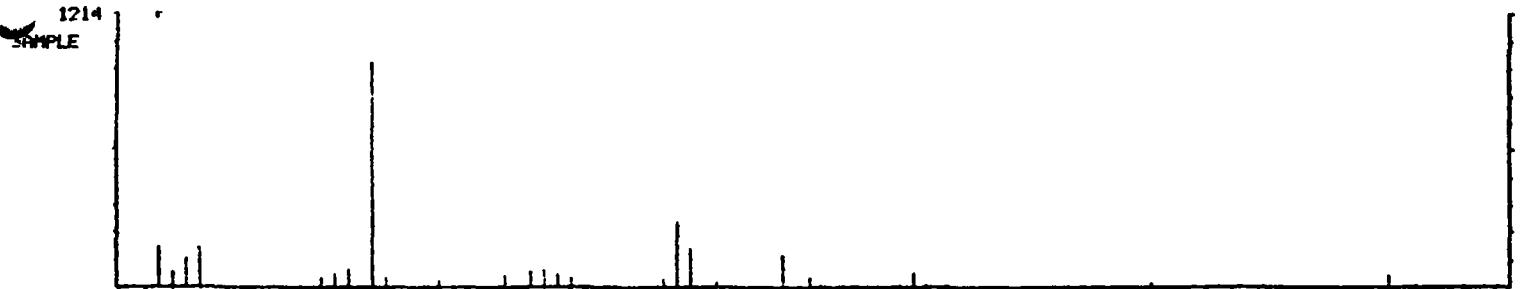
DATA: 2EU12056C04 # 498 BASE M/E: 106
CAL1: FZCAL # 1 RIC: 3063.



m/e 40 60 80 100 120 140

LIBRARY SEARCH
12/26/84 14:26:00 + 8:45
SAMPLE: 08169 1:1,12/10/84
ENHANCED (S 158 2N 8T)

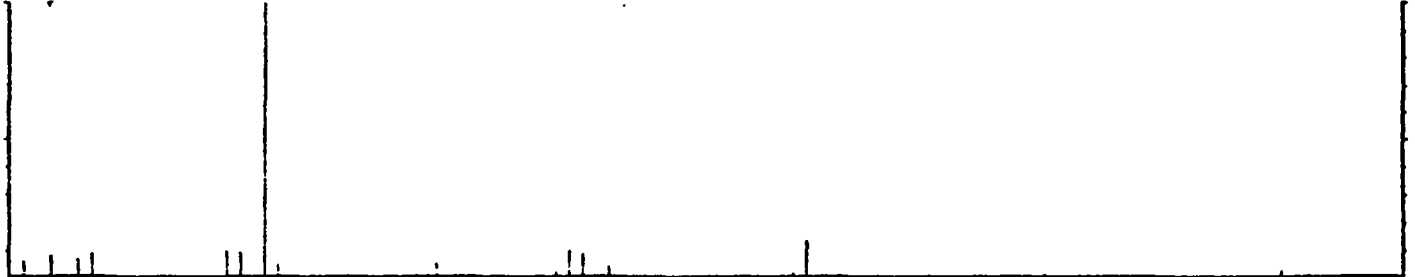
DATA: 2EU12856004 # 525 BASE M/E: 57
CALI: F2CAL # 1 RIC: 59383.



06.H11.0.Q

CYCLOHEXANOL, 4-CHLORO-, TRANS-

1214
HT 134
PK 57
QK 3982
N 941
FIT 941



018.H22

HEPTANE, 2,3,5-TRIMETHYL-

1214
HT 134
PK 57
QK 4878
N 894
FIT 894



06.H11.0.Q

CYCLOHEXANOL, 2-CHLORO-, TRANS-

1214
HT 134
PK 57
QK 3068
N 831
FIT 831



M/E 40 60 80 100 120 140

LIBRARY SEARCH
12/26/84 11:26:00 + 9:15
SAMPLE: AB169 1:1.12/10/84
ENHANCED (C 1-D 2H 81)

DATA: 2EU1295GC04 # 536 DOSE N/E: 78
CAL: F2CAL # 1 RIC: 23743.

1000
SAMPLE



05.H12.02

1,2-CYCLOHEXANEDIOL

1000
WT 116
PK 78
ANK 1
IN 2138
FIT 876



013.H16.04.N4

CYCLOHEXANONE, 3-METHYL-, (2,4-DINITROPHENYL)HYDRAZONE

1000
WT 232
PK 78
ANK 7
IN 2144
FIT 809



05.H16.02

HEXANAL, 2-(HYDROXYMETHYL)-4-METHYL-

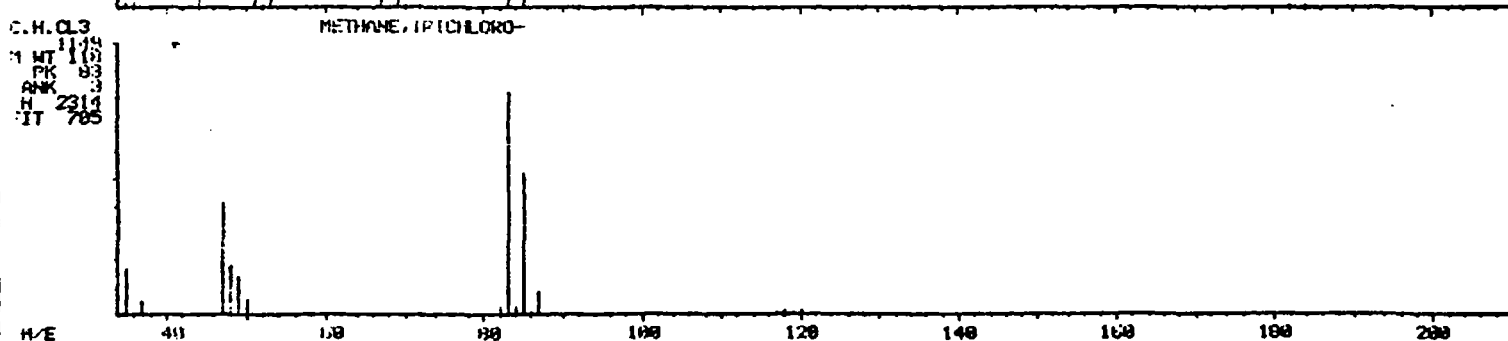
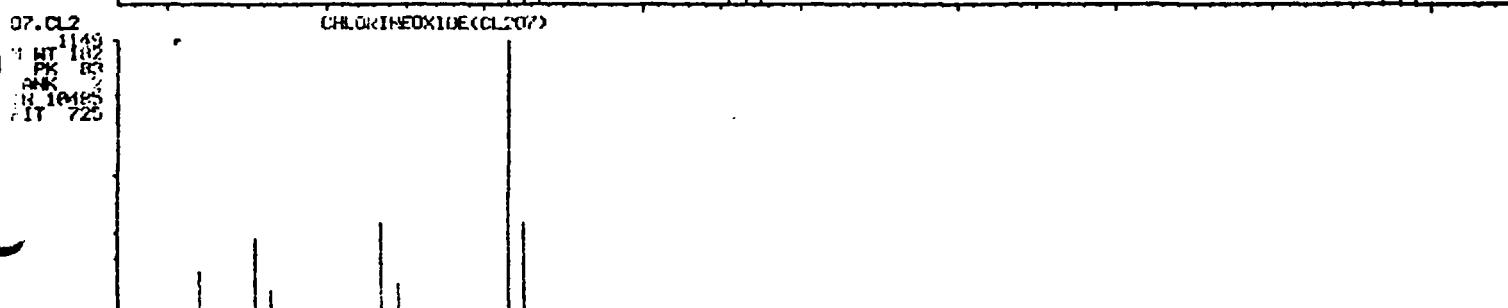
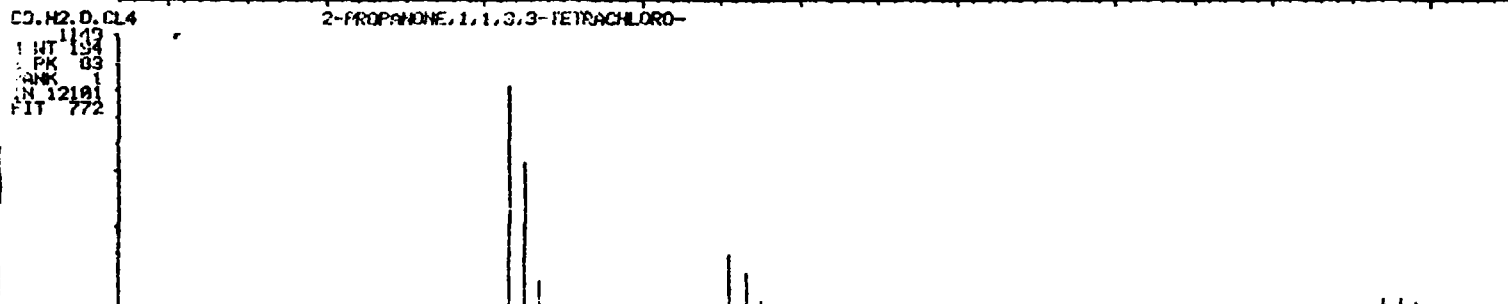
1000
WT 144
PK 78
ANK 3
IN 5257
FIT 872



N/E 50 100 150 200 250

LIBRARY SEARCH
12/26/84 14:25:08 + 15:39
SAMPLE: AB165 111,12/10/84
ENHANCED (S 118 2N RT)

DATA: ZEUI2856C84 # 939 BASE N/E: 83
CAL1: FZCAL # 1 RIC: 2909.



LIBRARY SEARCH
12/26/84 14:26:00 + 33:58
SAMPLE: A4169 11.12/16/84
ENHANCED (S 158 2N 8T)

DATA: 2TU12835084 #2030 BASE M/E: 197
CALI: FZCAL # 1 RIC: 4591.



C14.H22.0
1012
M WT 206
PK 135
ANK 1
N 13576
FIT 758

PHENOL, 4-(1,1,3,3-TETRAMETHYLBUTYL)-



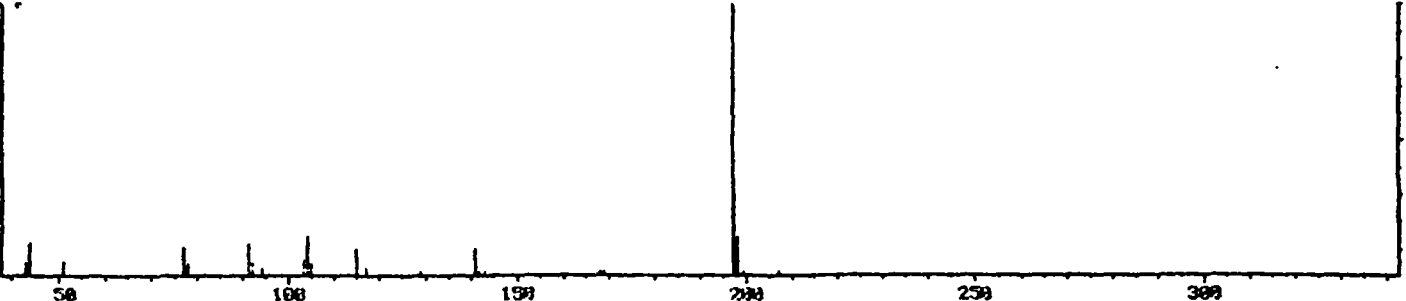
C14.H22.0
1012
M WT 206
PK 135
ANK 1
N 13576
FIT 758

PHENOL, 4-(2,2,3,3-TETRAMETHYLBUTYL)-

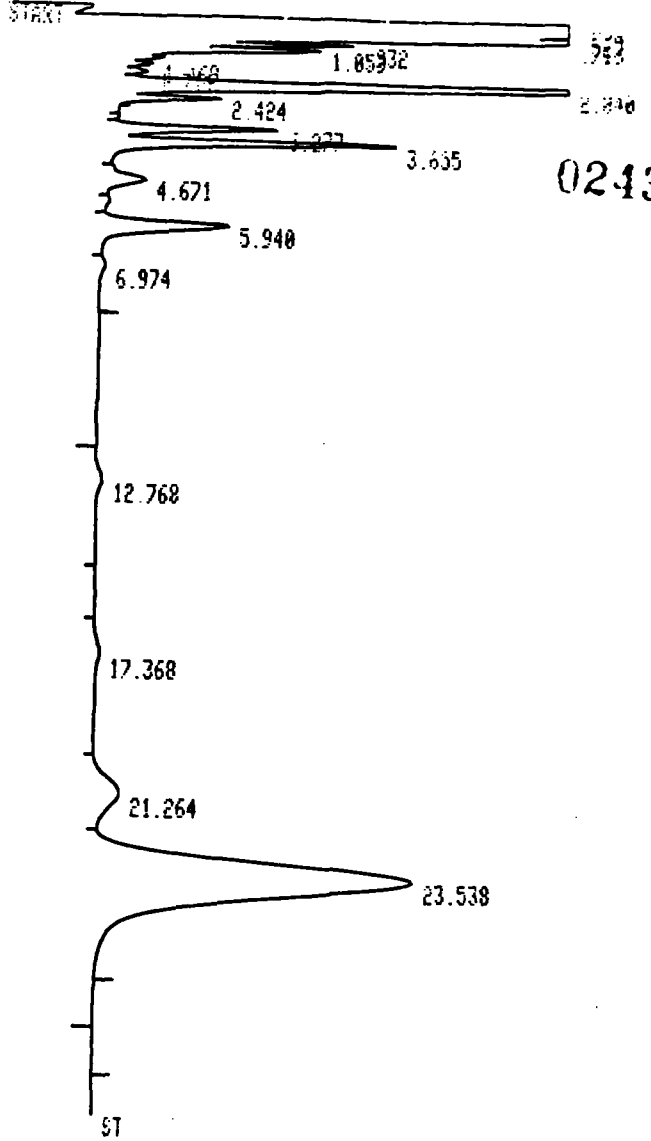


C25.H18.03
1012
M WT 265
PK 197
ANK 3
N 25934
IT 718

METHANONE, BIS(4-PHENOXYPHENYL)-



M/E 50 100 150 200 250 300



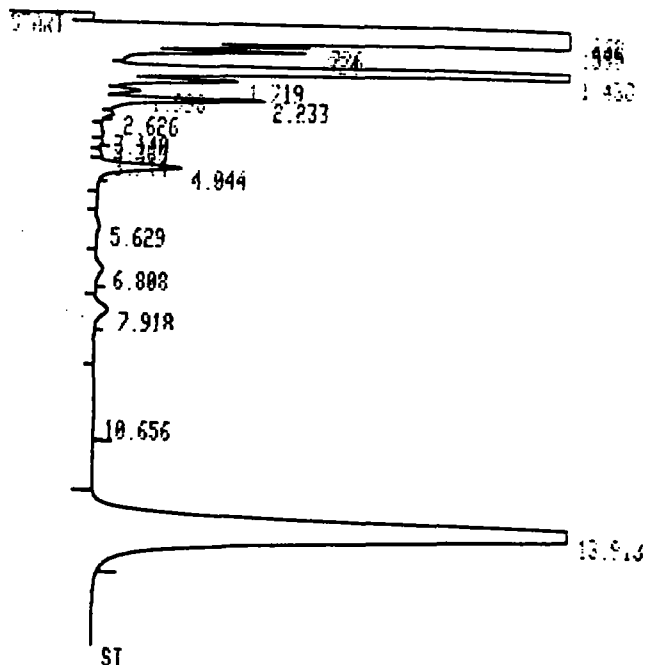
0243

CASE NUMBER 3633
 SAMPLE ID AB169
 VOLUME INJECTED 2ml
 COLUMN MP

2633
 RUN # 162 FEB/12/85 01:49:54
 WORKFILE ID: C 5-2950211-27 2ml
 WORKFILE NAME: 8412056-04A 1L
 ID: 5-1-2-84 Rm MP2 Post.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.294	175318	SBH	0.101	44.050
0.527	328240	DTBB	0.072	8.247
0.713	1539818	DSHB	0.091	38.686
0.932	14990	DTBV	0.061	0.377
1.059	14493	TVP	0.127	0.364
1.469	1302	DTPV	0.076	0.033
1.711	1658	DTPV	0.104	0.042
2.040	197590	TVV	0.125	4.964
2.424	11756	TVP	0.132	0.290
3.277	19597	TPV	0.174	0.492
3.655	34385	TVV	0.179	0.364
4.671	4449	TVV	0.327	0.112
5.940	15101	TPP	0.293	0.379
6.974	626	TPB	0.383	0.016
12.768	771	BP	0.626	0.019
17.368	645	PP	1.098	0.016
21.264	3121	PV	0.971	0.078
23.538	38458	VB	1.134	0.966

TOTAL HGHT= 3980300



CASE NUMBER 3633
 SAMPLE ID AB169
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 398 FEB/18/85 00:30:30
 ID 1-1-1-85 1-1-50217-20 2ul
 8412056-04A Ret.
 Rm SP

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.269	2208335	SPH	0.130	22.922
0.449	1831222	DSHH	0.136	19.007
0.595	2602432	DSHH	0.112	27.912
0.776	104705	DTBP	0.064	1.007
0.924	147354	DTPB	0.076	1.536
1.438	1748999	SHB	0.179	18.154
1.719	97801	DTBP	0.101	1.015
1.998	23191	TPV	0.106	0.241
2.233	147012	TVV	0.130	1.526
2.626	7102	DTVP	0.163	0.074
3.140	2151	TPV	0.243	0.092
3.360	2500	DTVV	0.155	0.027
3.714	2591	TPV	0.165	0.027
4.044	79565	TVV	0.210	0.826
5.629	3124	TPV	0.340	0.032
6.808	7032	TVV	0.405	0.073
7.918	12680	TPB	0.368	0.132
10.656	712	TBB	1.109	0.007
13.813	605631	PB	0.582	6.296

TOTAL HGHT= 9634200
 MUL FACTOR= 1.0000E+00

Sample Number
AB170

Organics Analysis Data Sheet
 (Page 1)

0245

Laboratory Name: Radian
 Lab Sample ID No: 4EU12051V06
 Sample Matrix: Water
 Data Release Authorized By: J. Peterson

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)
 Date Extracted/Prepared: —
 Date Analyzed: 12-13-84
 Conc/Dil Factor: 1:1 pH —
 Percent Moisture: 100%
 Percent Moisture (Decanted): —

*accept
 5/10/85*

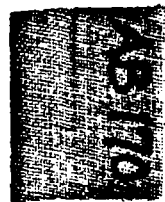
CAS-Number	Compound	ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u J
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u ✓
75-09-2	Methylene Chloride	2000 u J 5u
64-1	Acetone	430 u J 10u
75-15-0	Carbon Disulfide	5u J
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u ✓
67-66-3	Chloroform	25u J 5u
107-06-2	1, 2-Dichloroethane	5u J
78-93-3	2-Butanone	50u J 10u
71-55-6	1, 1, 1-Trichloroethane	25 u J 5u
56-23-5	Carbon Tetrachloride	5u J
108-05-4	Vinyl Acetate	10u J
75-27-4	Bromodichloromethane	5u J

CAS Number	Compound	ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u J
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xlenes	5u ✓

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U).
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.



Sample Number
AB170

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 12-21-84

Conc/Dil Factor: 1000:1

see list 5/10/85

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u R
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benz(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u R
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u R
205-99-2	Benz(b)Fluoranthene	10u
207-08-9	Benz(k)Fluoranthene	10u
50-32-8	Benz(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pvrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benz(o, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB170

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12-10-84
Date Analyzed: 2-11-85
Conc/Dil Factor: 1000 ml; 5 ml

*acc m. G
5/10/85*

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

- V_i = Volume of extract injected (ul)
- V_s = Volume of water extracted (ml)
- W_s = Weight of sample extracted (g)
- V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_i 5000 uL V_t 2 u

0248

SAMPLE NUMBER:
 AB170

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

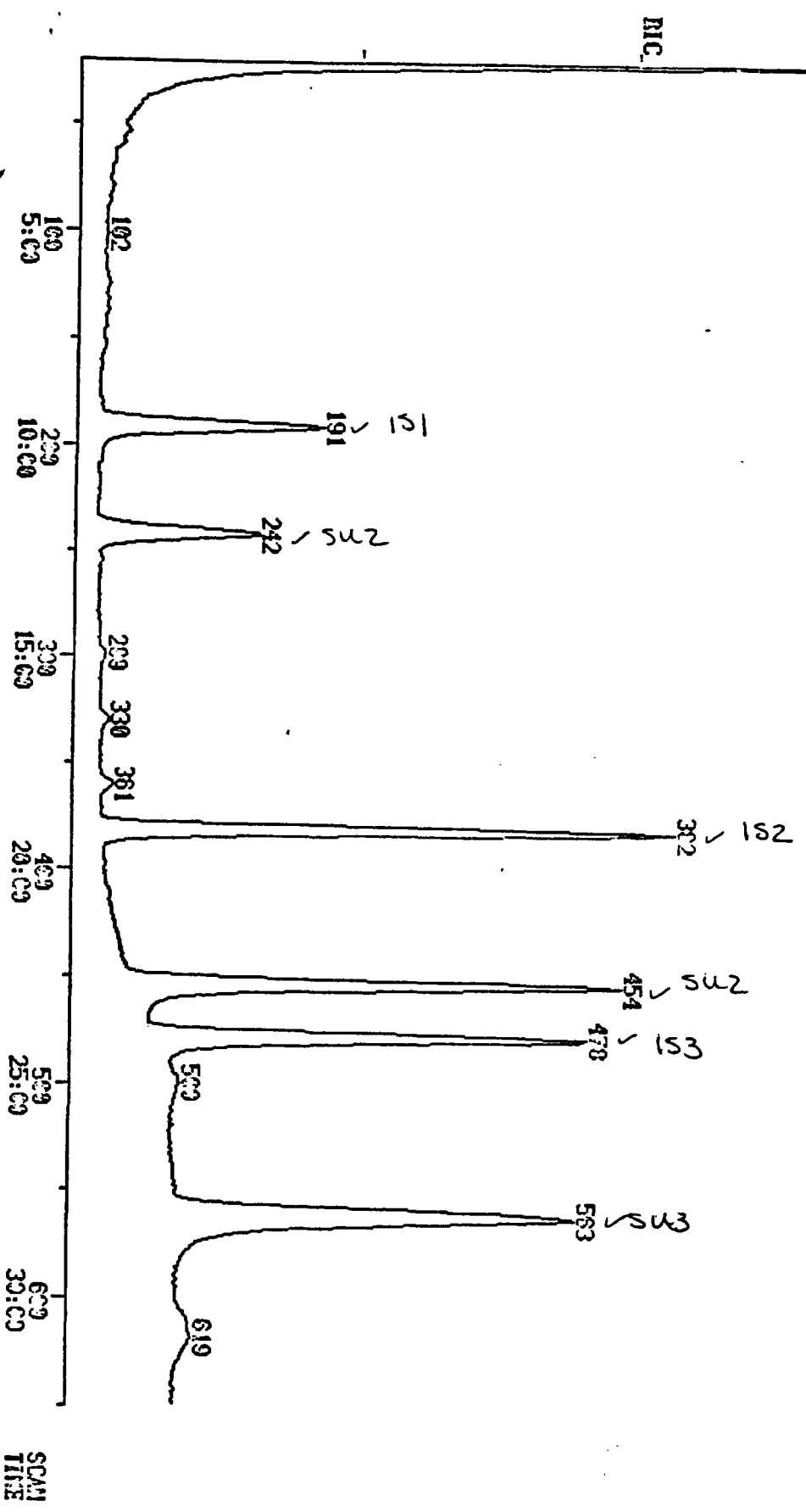
IAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION UG/L OR UG/KG
1 4730-227	2-HEPTANOL, 6-METHYL-	ABN	334	72
2 2233-003	1-PROPENE, 3, 3, 3-TRICHLORO-	ABN	433	19
3 2958-770	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	162
4 931-174	1,2-CYCLOHEXANEDIOL	ABN	553	80
5 4123A-484	FURAN, 2, 5-DIETHYL TETRAHYDRO-	ABN	716	6
6 53907-548	2-PENTENE, 3-ETHYL-4, 4-DIMETHYL-	ABN	1850	7
7 13113-724	BICYCLO[2.2.1]HEPT-2-EN-7-OL, 7-(4-ME T	ABN	1904	5
8 272-16-2	1,2-BENZISOTHIAZOLE	ABN	2025	14

No volatile compounds
 detected

all for E
 5/10/85

12/13/84 19:17:C3
 SAMPLE: F4.D, EPA, AD170, C3, V.1:1, HAS
 RANGE: C 1. 659 LABEL: N 0, 4.0 QUANT: A 0, 1.0 BASE: U 29, 3

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4EU12051V06.TI

12/13/84 19:17:00

SAMPLE: F4,D,EPA,AB170.00,V,1:1,NA\$

SUBMITTED BY: EPA

ANALYST: MM

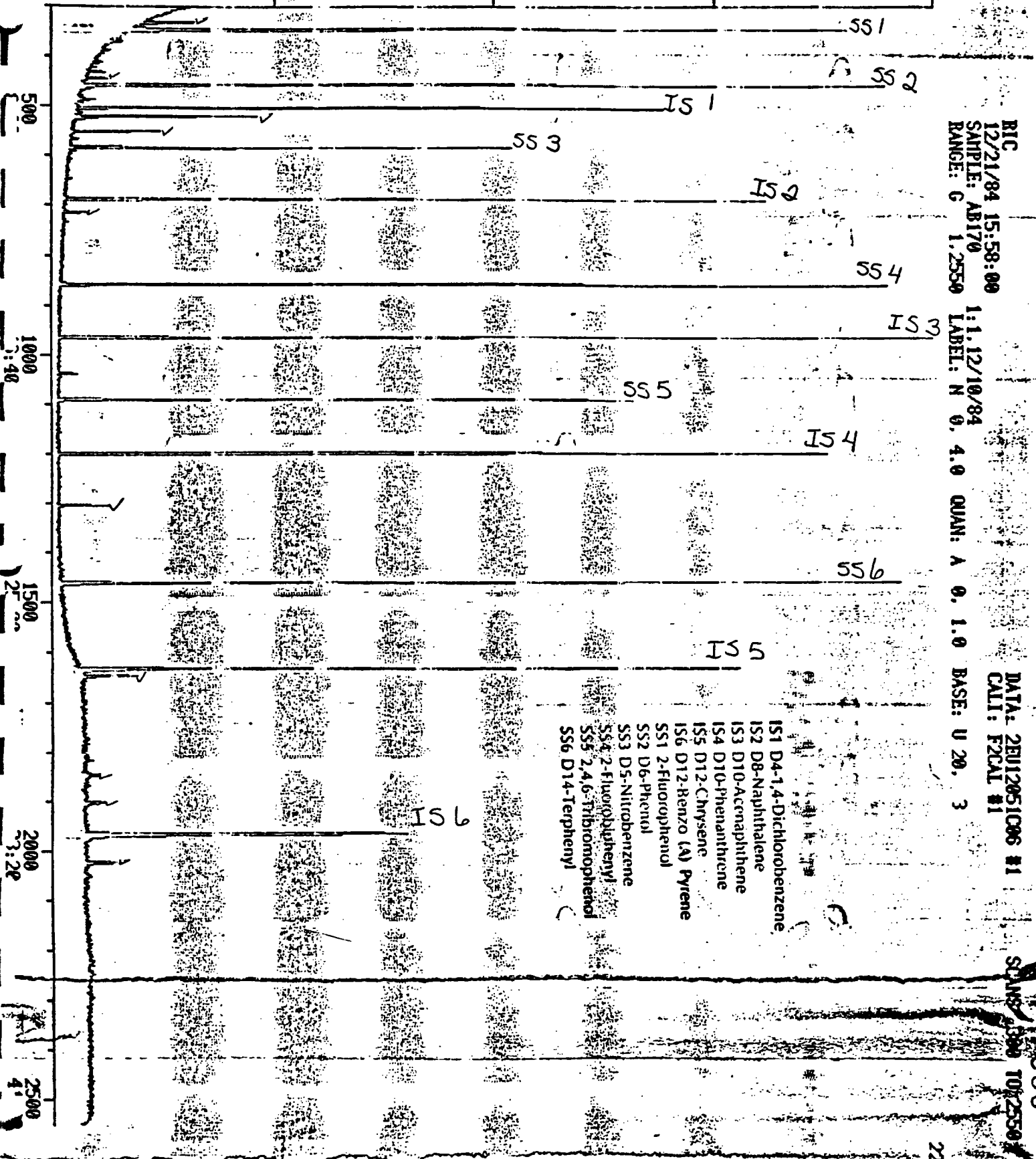
AMOUNT=AREA(HGHT) * REF.AMNT/(REF.AREA(HGHT)* RESP.FACT)
 RESP. FAC. FROM LIBRARY ENTRY

NO	NAME
1	(1S1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(1S2) DIFLUOROBENZENE-1,2
4	(1S3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE

NO	M/E	SCAN	TIME	REF	RT	METH	AREA(HGHT)	AMOUNT	#TOT
1	123	191	9:33	1	1.988	A B3	71933.	59.000 UG/L	11.39
2	67	242	12:05	1	1.267	A B3	87529.	97.341 %	22.18
3	114	392	19:05	3	1.988	A B3	470123.	50.000 UG/L	11.39
4	117	478	23:54	4	1.000	A B3	334659.	50.000 UG/L	11.39
5	99	454	22:42	4	0.950	A B3	421292.	92.253 %	21.82
6	95	562	23:05	4	1.176	A7B3	327542.	99.239 %	22.62

RIC

100.0



RIC
 12/21/84 15:58:00
 SAMPLE: AB170
 RANGE: 0 1.2550

1:12/10/84
 LABEL: N 0, 4.0 QUAN: A 0, 1.0 BASE: U 20, 3

DATA: 2EJ12051C06 #1
 CALL: F2CAL #1

SCANS: 1500 1012550

- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

DATA: 2EU12051C06.T1

12/14/84 13:58:20

12/12/84

ANALYST: LK

* REF.AMNT/(REF.AREA(HGHT)* RESP FACT)
LIBRARY ENTRY

- 1 1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUCROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUCROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 DI-N-BUTYL PHTHALATE
- 15 PYRENE
- 16 BIS(2-ETHYLHEXYL) PHTHALATE
- 17 DI-N-OCTYL PHTHALATE

NO	M/E	SCAN	TIME	REF	R/T	METH	AREA (HGHT)	AMOUNT	XTOT
1	152	505	8:25	1	1.000	A7BB	60756.	40.000 UG/ML	3.65
2	136	690	11:39	2	1.000	A BB	217865.	40.000 UG/ML	3.65
3	164	966	16:05	3	1.000	A BB	131615.	40.000 UG/ML	3.65
4	188	1201	20:01	4	1.000	A7BV	195063.	40.000 UG/ML	3.65
5	240	1634	27:14	5	1.000	A7BB	191637.	40.000 UG/ML	3.65
6	264	1968	32:48	6	1.000	A7BB	160695.	40.000 UG/ML	3.65
7	112	347	5:47	1	0.637	A7BV	137748.	215.277 x	19.63
8	99	459	7:39	1	0.989	A BB	217888.	218.735 x	19.95
9	82	585	9:45	2	0.948	A BB	81109.	65.673 x	5.99
10	172	860	14:23	3	0.890	A BB	172451.	104.621 x	9.54
11	330	1092	18:12	3	1.130	A BB	47711.	141.511 x	12.91
12	244	1463	24:23	5	0.895	A BB	217900.	96.719 x	8.82
13	94	461	7:41	1	0.913	A BB	8280.	4.563 UG/ML	0.42
14	149	1305	21:45	4	1.007	A BB	22393.	4.393 UG/ML	0.40
15	202	1435	23:55	5	0.878	A BB	1852.	0.381 UG/ML	0.03
16	149	1648	27:29	5	1.009	A BB	18417.	4.302 UG/ML	0.39
17	149	1772	29:32	6	0.900	A7BB	1330.	0.268 UG/ML	0.02

LIBRARY SEARCH
12/21/84 15:58:00 + 21:45
SAMPLE: AB170 1:1.12/10/84
ENRICHED (S 15B 2N 0T)

DATA: 2EU12051086 #1305
CALL: F2CAL # 1

BASE M/E: 149
RIC: 10735.

SAMPLE

1000

0253

M UT 1000
B PK 150
RANK 149
IN 1
77
RFT 880

DI-N-OCTE-TETRA-
Butyl

SAMPLE MINUS LIBRARY

1000

0

-1000
M/E

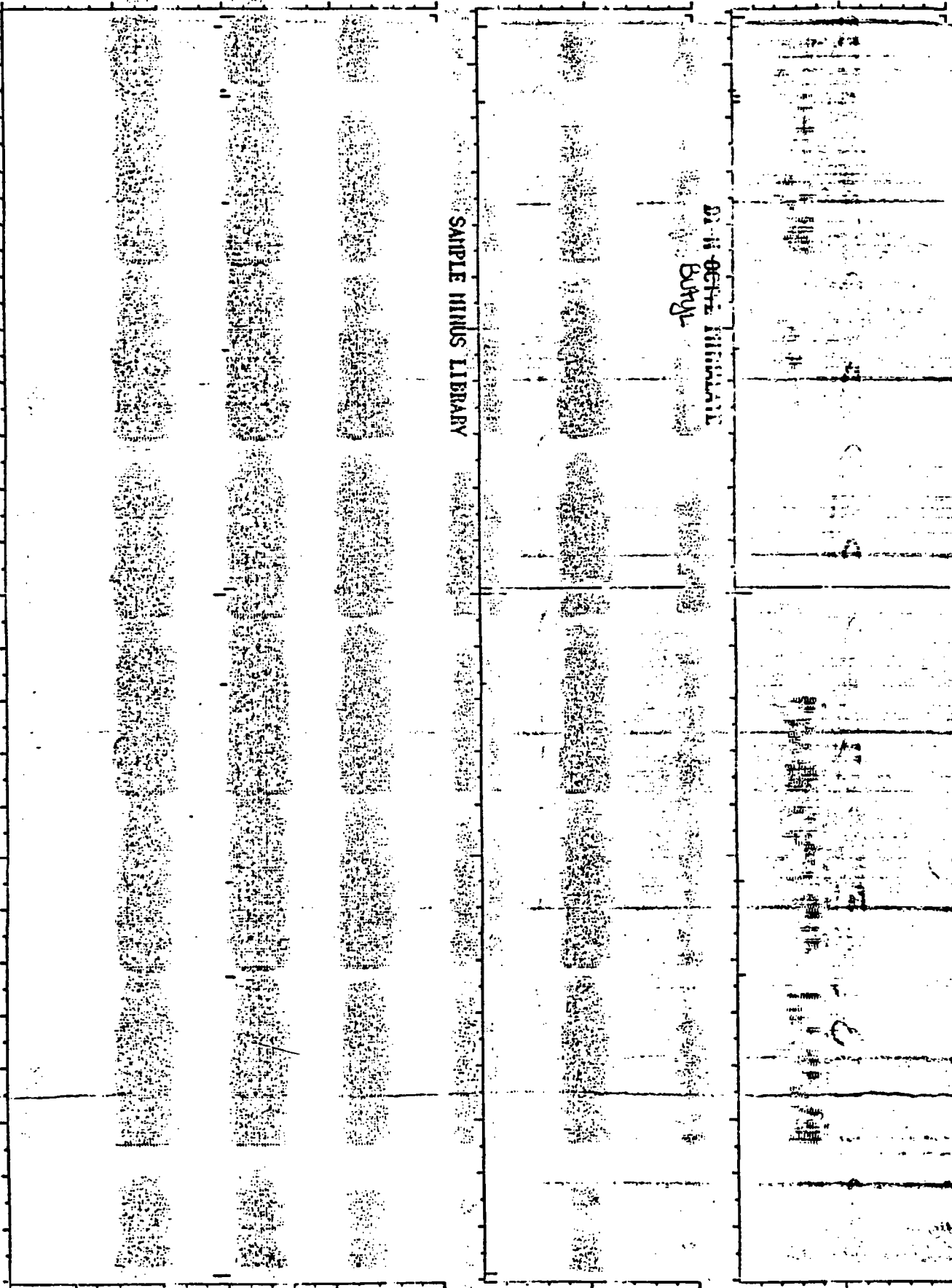
50

100

150

200

250



DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA.NA.MAS
DATA: 2EUI2051C06 #1305

DATA: EPSTD #1745
CALL: F2CAL #1

BASE N/E: 149/ 149
RIC: 257279./ 14319.

0254

SECOND SPECTRUM
100.0

50.0

100.0

50.0

N/E

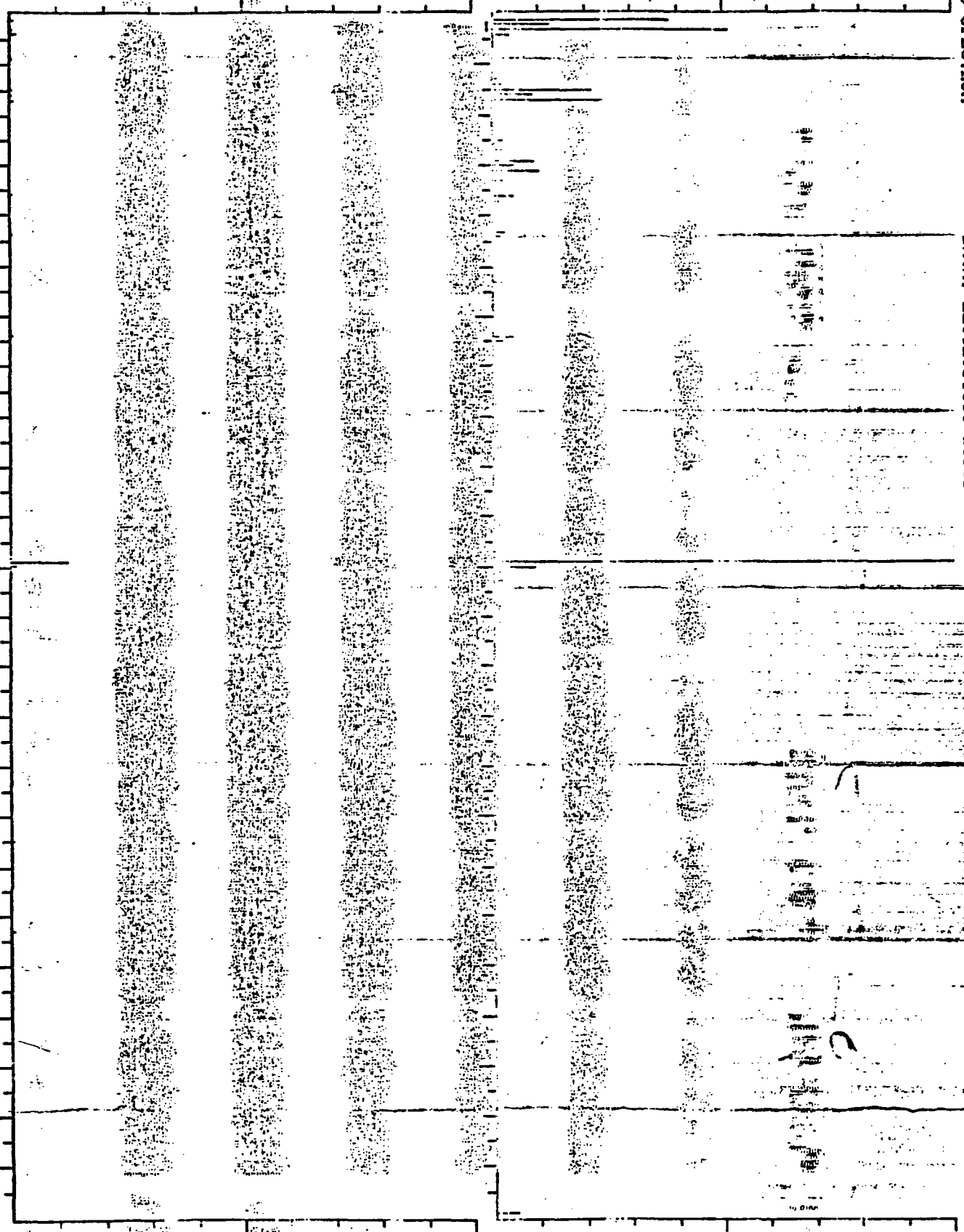
50

100

150

200

250



78976.

78976.

SAMPLE

1047

LIBRARY SEARCH
12/21/84 15:58:00 + 27:28
SAMPLE: AB170 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

DATA: 2EJ12051006 #1648
CALL: F2CAL # 1

BASE N/E: 149
R/C: 12415.

0255

1047
H UT 150
B PK 149
RANK 1
IN 73
RFT 861

2-ETHYLENE DIAMINE

SAMPLE MINUS LIBRARY

1047

0

-1047
N/E

50

100

150

200

250

000

SECOND SPECTRUM
100.0

0256

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 27:09
SAMPLE: F2.D.CAL.00080.00.C.MA:NA.MAS
DATA: 2E012051C06 #1648

DATA: EPSTD #1629
CALI: F2CAL #1

BASE M/E: 149/ 149
RIC: 416255./ 21471.

73728.

73728.

M/E

50

100

150

200

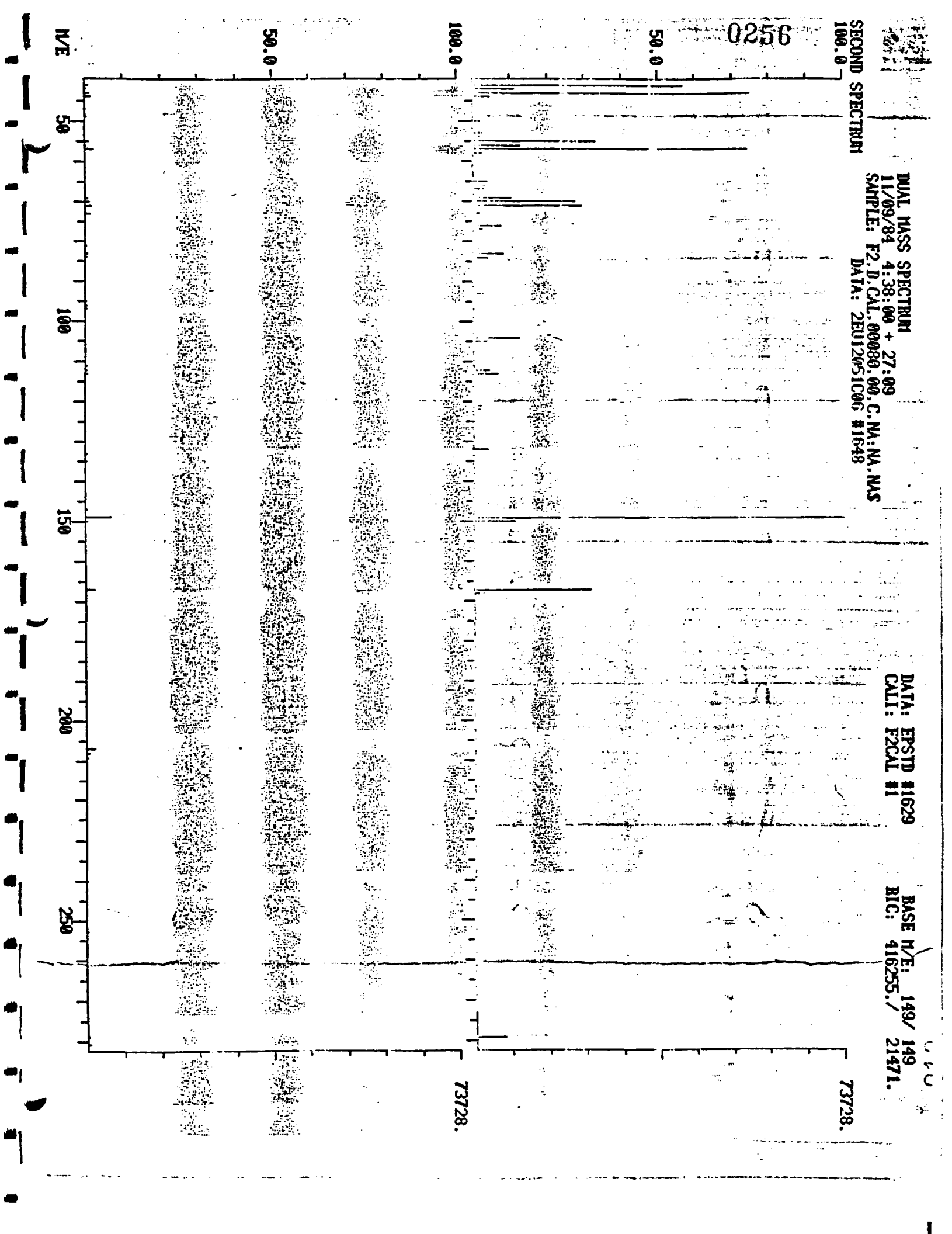
250

50.0

100.0

50.0

100.0



0257

SAMPLE

1352

LIBRARY SEARCH
12/21/84 15:58:00 + 29:32
SAMPLE: AB170 1:1.12/10/84
ENHANCED (S 15B 2N 0T)

DATA: 2EJ12051006 #1772
CALL: F2CAL # 1

BASE N/E: 149
R/C: 885.

1352
M UT 150
B PK 41
RANK 1
IN 73
RFT 6W2

~~DI-N-DECELYL~~
DI-N-DECELYL

SAMPLE MINUS LIBRARY

1352

N/E -1352

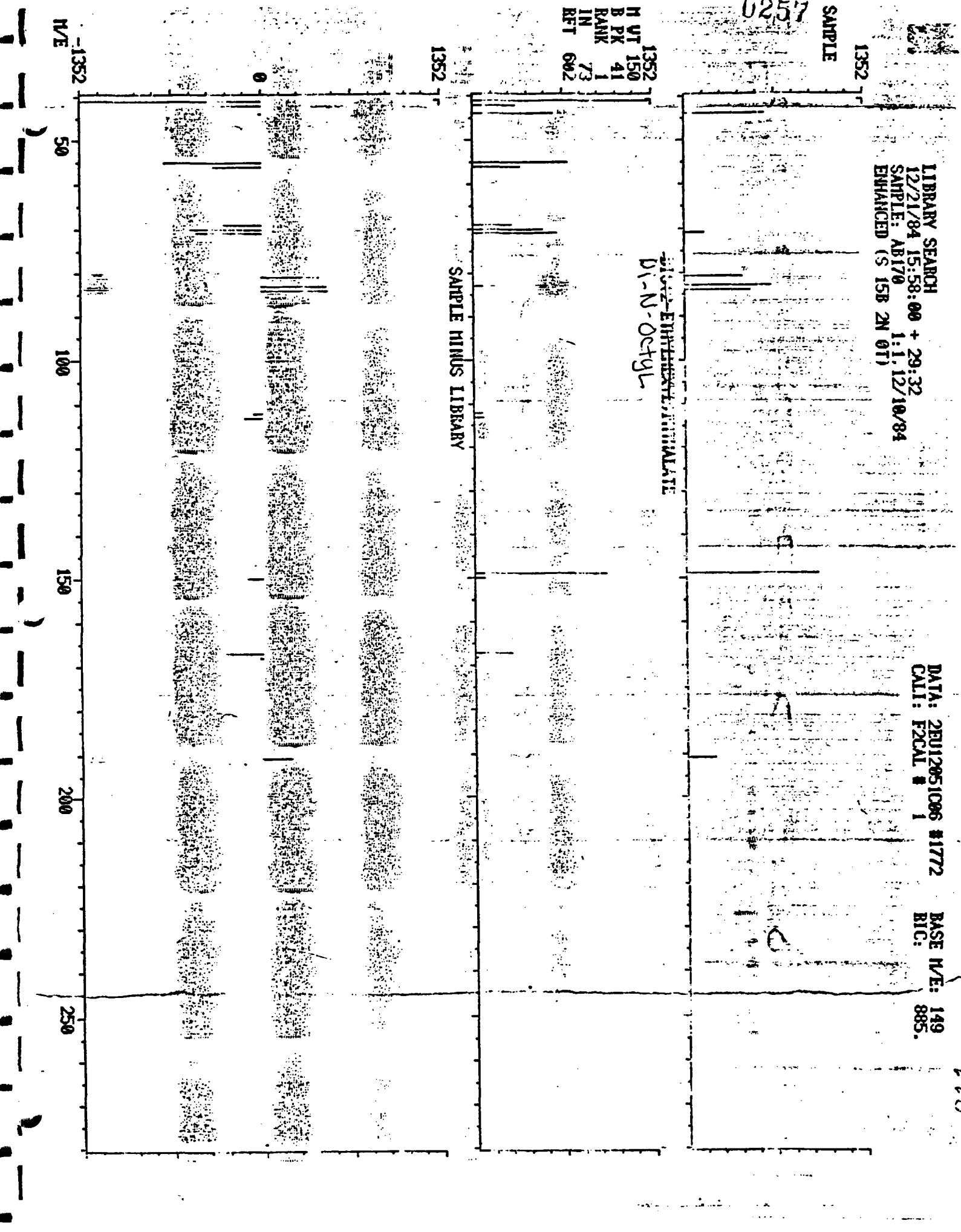
50

100

150

200

250



SECOND SPECTRUM
100.0

0253

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 27:09
SAMPLE: F2.D.CAL.00080.00.C.MA.NA.MS
DATA: 2EU12951006 #1772

DATA: EPSTD #1629
CALL: F2CAL #1

BASE N/A
RIC: 416255

1987 207
867A

73728.2

73728.2

N/E

50

100

150

200

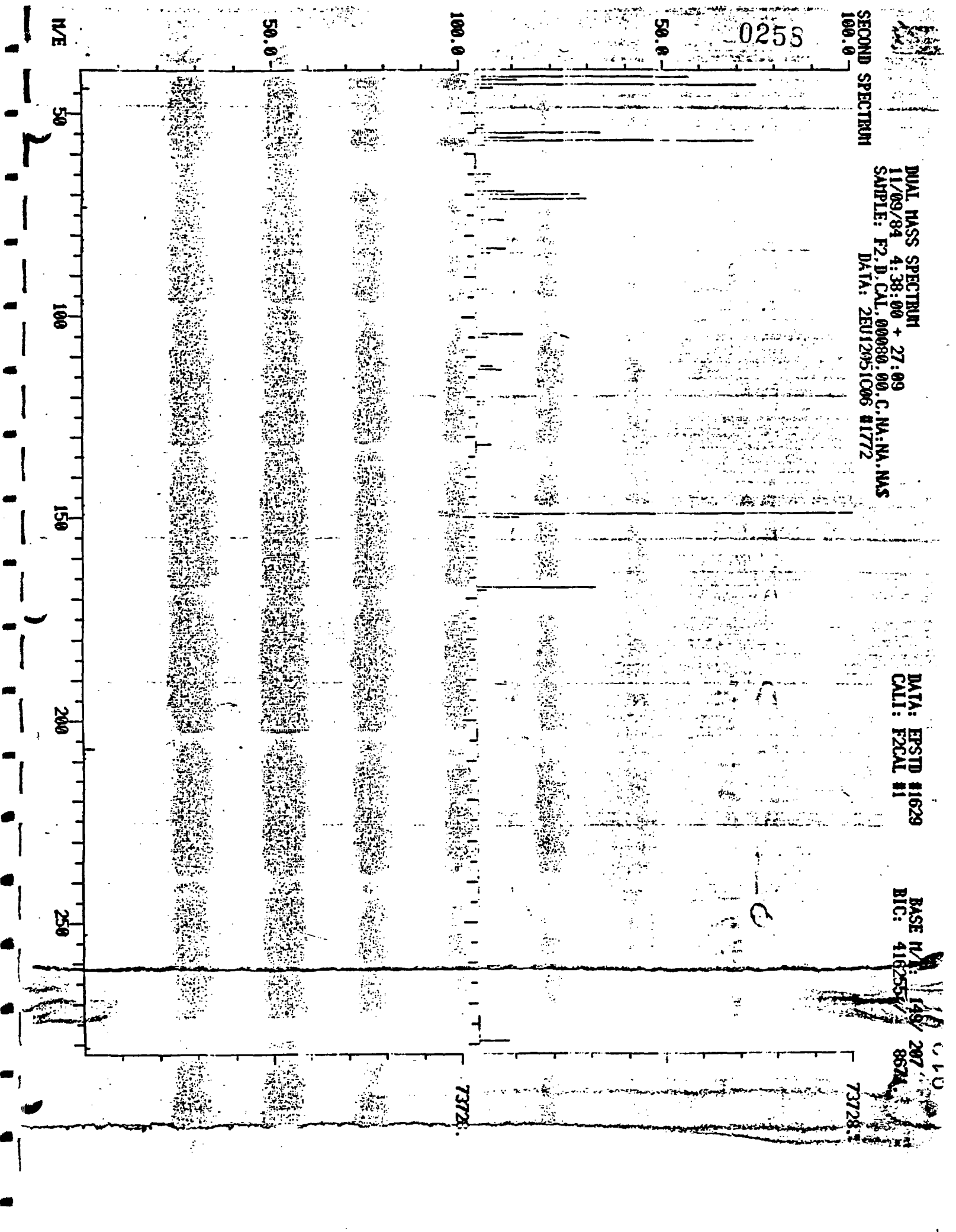
250

50.0

100.0

50.0

100.0



QUANTITATION REPORT FILE: NHSL

DATA: 2EU12051C06.TI

2/21/84 15:58:00

SAMPLE: AB170 1:1,12/10/84

SUBMITTED BY: EPA ANALYST: LK

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

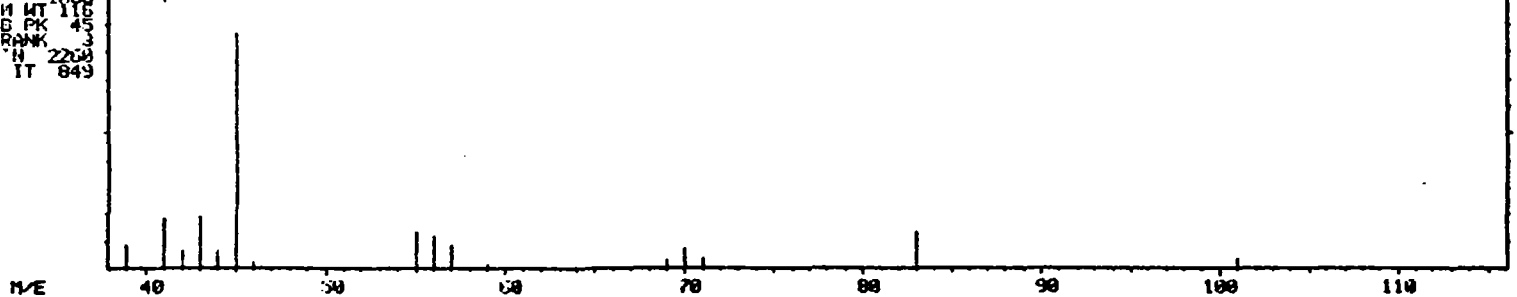
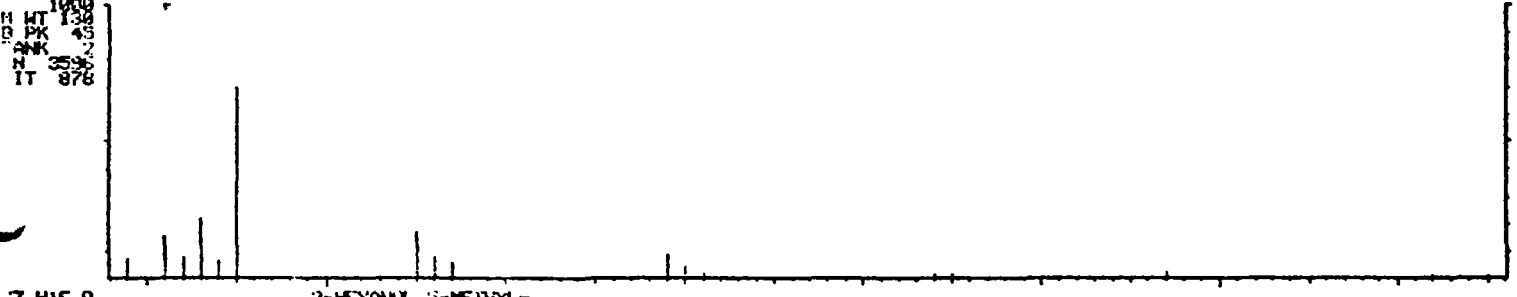
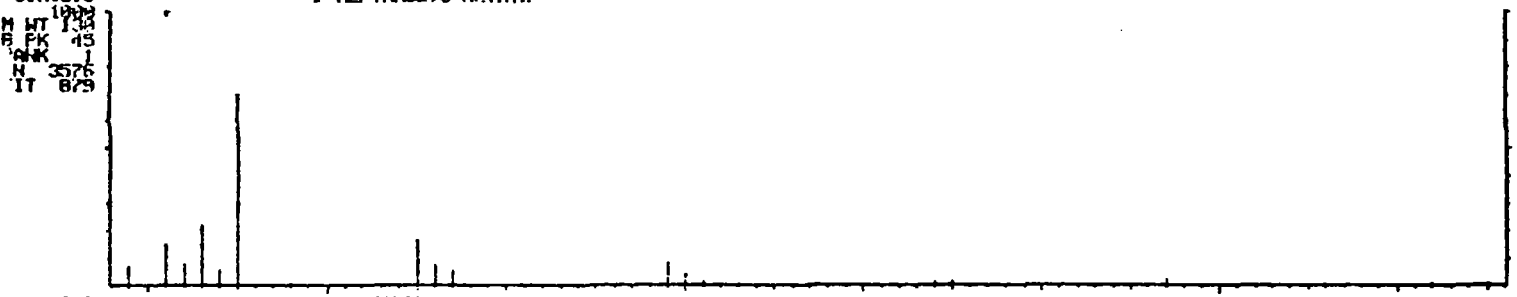
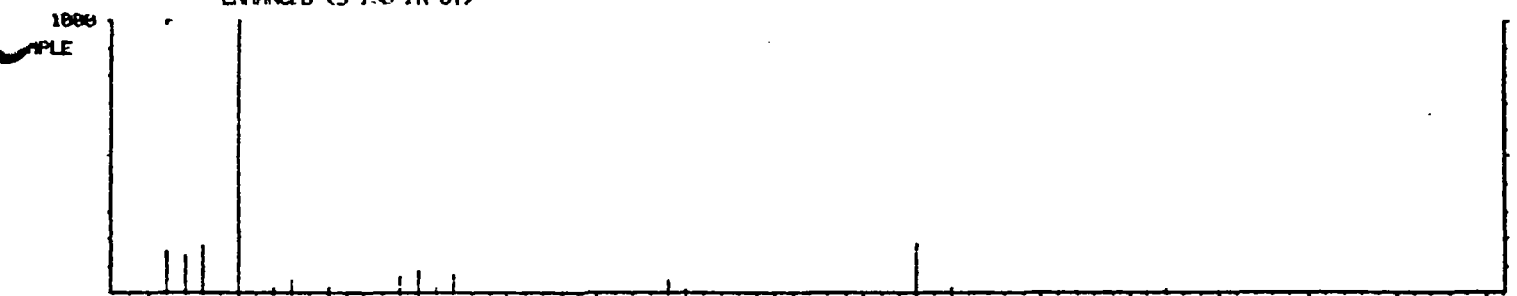
NO	NAME
1	D4-1,4-DICHLOROBENZENE (IS)
2	D8-NAPHTHALENE (IS)
3	D10-ACENAPHTHENE (IS)
4	D10-PHENANTHRENE (IS)
5	D12-CHRYSENE (IS)
6	D-12 BENZO(A)PYRENE (IS)
7	2-HEPTANOL,6-METHYL-
8	1-PROPENE,3,3,3-TRICHLORO-
9	CYCLOHEXANOL,4-CHLORO-,TRANS-
10	1,2-CYCLOHEXANEDIOL
11	FURAN,2,5-DIETHYL,TETRAHYDRO-
12	2-PENTENE,3-ETHYL-4,4-DIMETHYL-
13	BICYCLO[2.2.1]HEPT-2-EN-7-OL,7-(4-METHOXYPHENYL)-,ANTI-
14	1,2-BENZISOTHIAZOLE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	505	8:25	1	1.000	A?BB	60756.	40.000	UG/ML	6.61
2	136	690	11:30	2	1.000	A BB	217065.	40.000	UG/ML	6.61
3	164	966	16:06	3	1.000	A BB	131615.	40.000	UG/ML	6.61
4	168	1201	20:01	4	1.000	A?BU	195063.	40.000	UG/ML	6.61
5	240	1634	27:14	5	1.000	A?BB	191637.	40.000	UG/ML	6.61
6	264	1968	32:48	6	1.000	A?BB	168695.	40.000	UG/ML	6.61
7	TOT	334	5:34	1	0.661	A BB	36609.	72.313	UG/L	11.95
8	TOT	433	7:13	1	0.857	A BB	9458.	18.682	UG/L	3.09
9	TOT	522	8:42	1	1.034	A BU	82063.	162.099	UG/L	26.79
10	TOT	553	9:13	1	1.095	A BB	40615.	80.227	UG/L	13.26
11	TOT	716	11:56	2	1.038	A BB	10524.	5.797	UG/L	0.96
12	TOT	1850	30:30	6	0.940	A BU	9949.	7.078	UG/L	1.17
13	TOT	1904	31:44	6	0.967	A BB	7212.	5.131	UG/L	0.85
14	TOT	2025	33:45	6	1.029	A BB	19202.	13.661	UG/L	2.26

0260

LIBRARY SEARCH
12/21/84 15:58:08 + 5:33
SAMPLE: NB176 1:1,12/18/84
ENHANCED (S 1:8 2N BT)

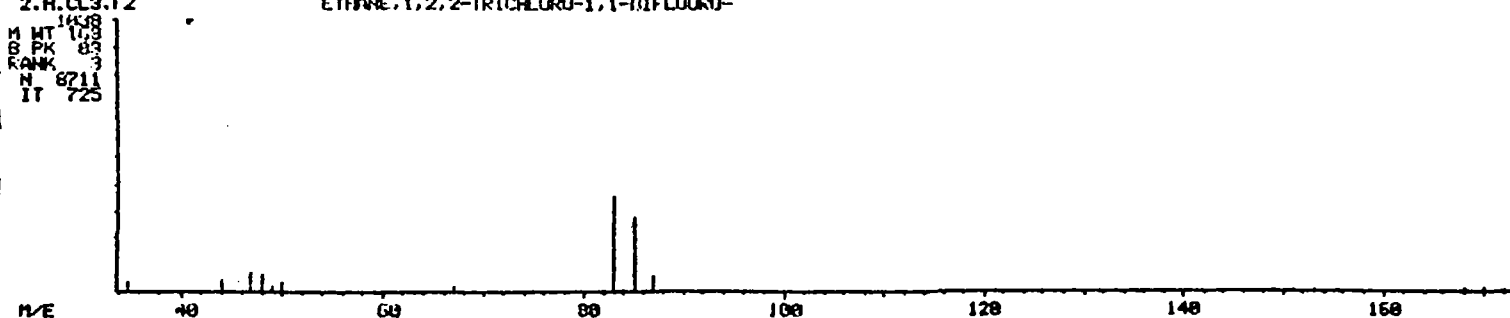
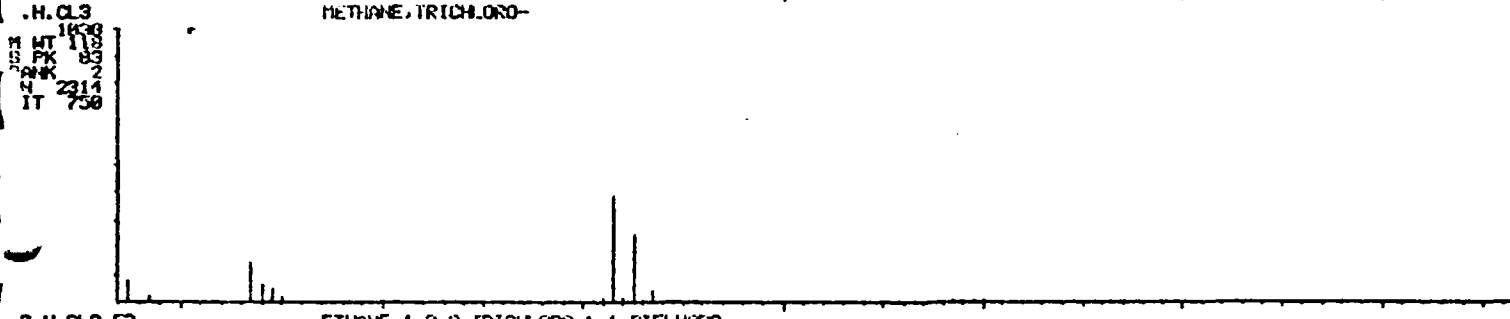
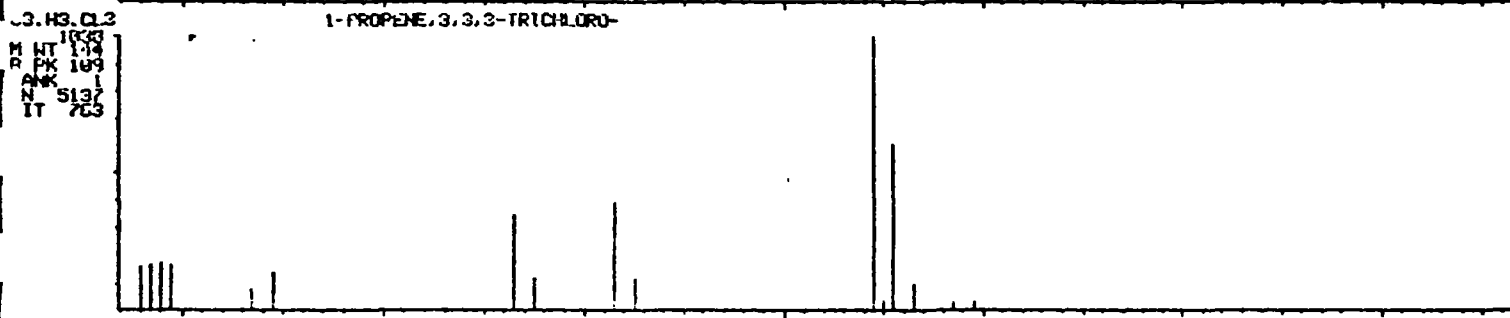
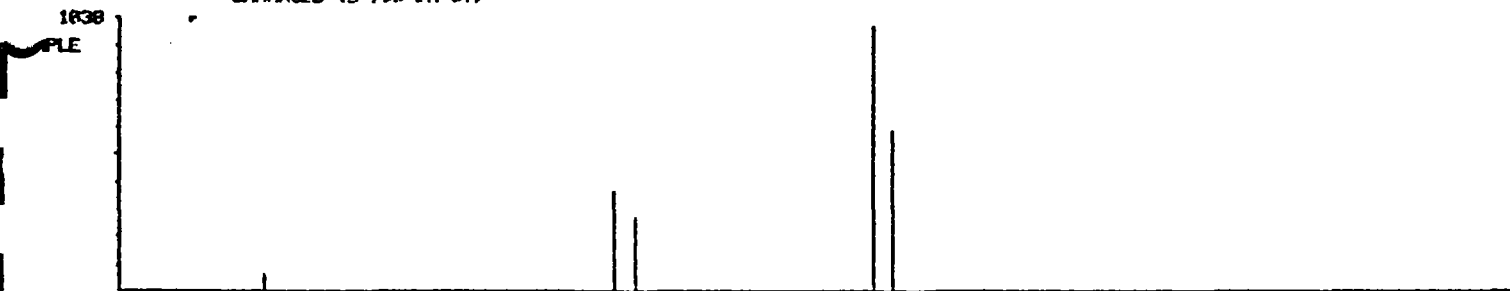
DATA: 2EU12851C06 # 333
CAL: F200L # 1
BASE M/E: 45
RIC: 12383.



M/E 40 50 60 70 80 90 100 110

LIBRARY SEARCH
12/21/84 15:58:00 + 7:13
SAMPLE: AB170 1:1.12/16/84
ENHANCED (S 158 2N 8T)

DATA: 25U12051C06 # 433 HXSE NVE: 100
CAL1: F2CAL # 1 RIC: 3263.

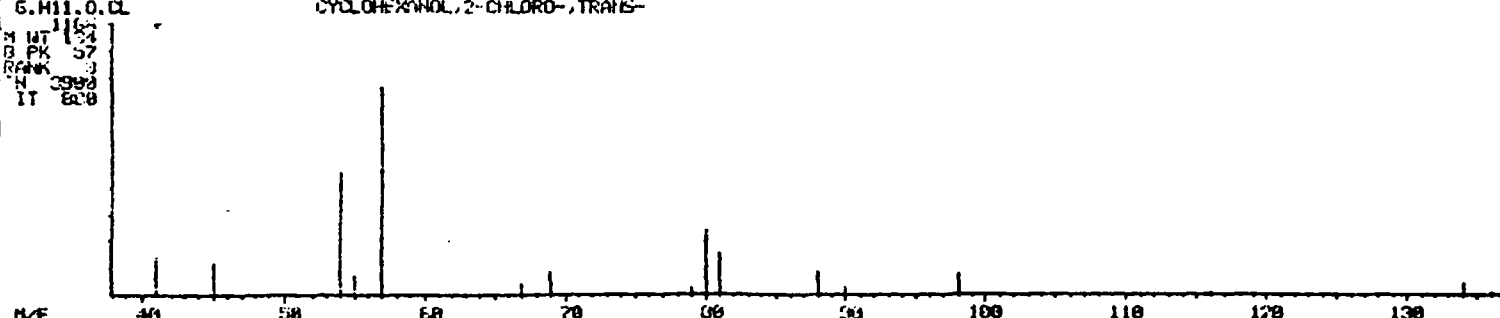
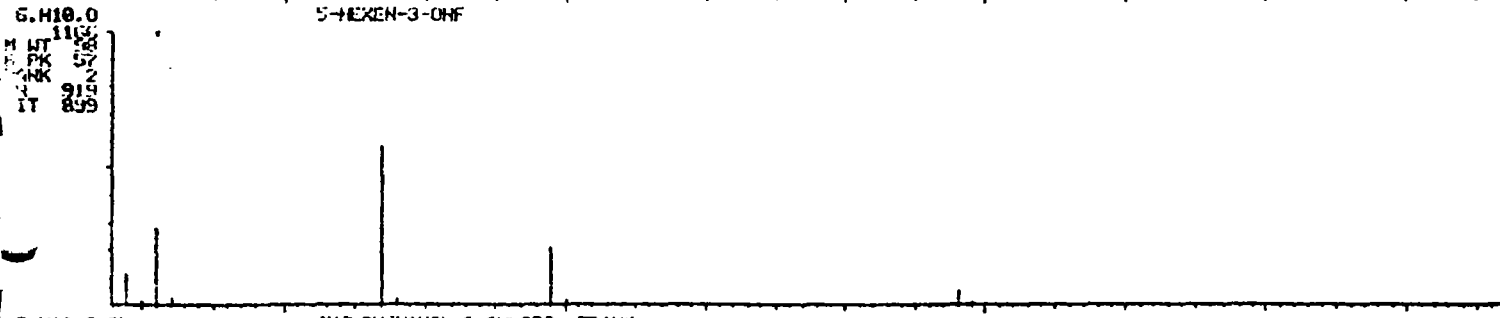
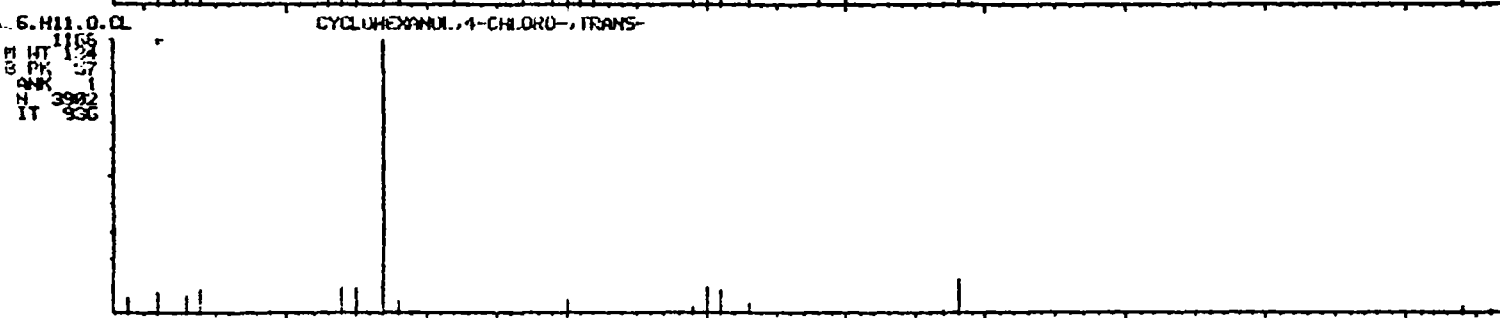
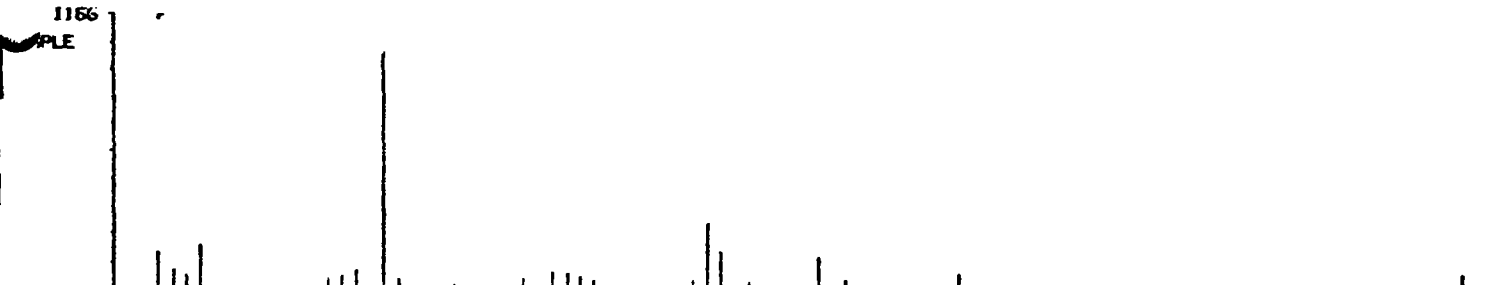


NVE 40 60 80 100 120 140 160

0262

LIBRARY SEARCH
12/21/84 15:58:00 + 8:42
SAMPLE: AB170 1:1,12/18/04
ENHANCED (S 158 2N 8T)

DATA: 2EUI2051C06 # 522 BASE N/E: 57
CALI: F2CAL # 1 RIC: 34687.



N/E 40 50 60 70 80 90 100 110 120 130

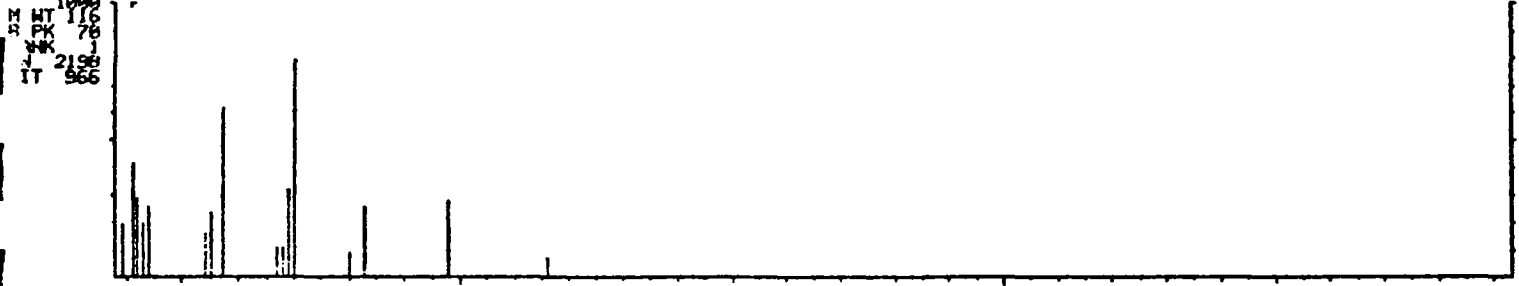
LIBRARY SEARCH
12/21/84 15:58:00 + 9:13
SAMPLE: AB170 1:1,12/10/84
ENHANCED (S 15.0 2X 0T)

DATA: ZEUI2851C06 # 553 BASE N/E: 70
CALI: F2CAL # 1 RIC: 16671.



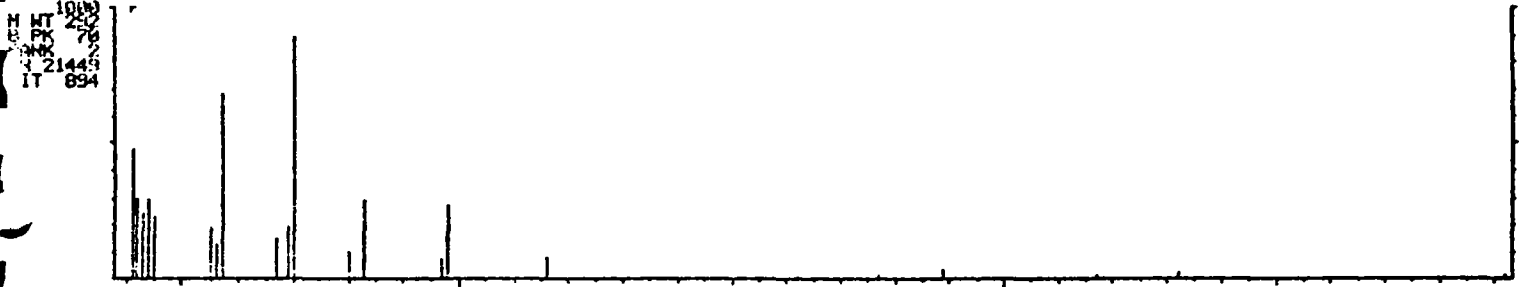
5.H12.02
M HT 1000
B PK 70
RANK 3
N 2198
IT 955

1,2-CYCLOHEXANEDIOL



13.H16.04.N4
M HT 1000
B PK 70
RANK 3
N 2144
IT 894

CYCLOHEXANONE,3-METHYL-,(2,4-DINITROPHENYL)HYDRAZONE



8.H16.02
M HT 1000
B PK 70
RANK 3
N 2267
IT 825

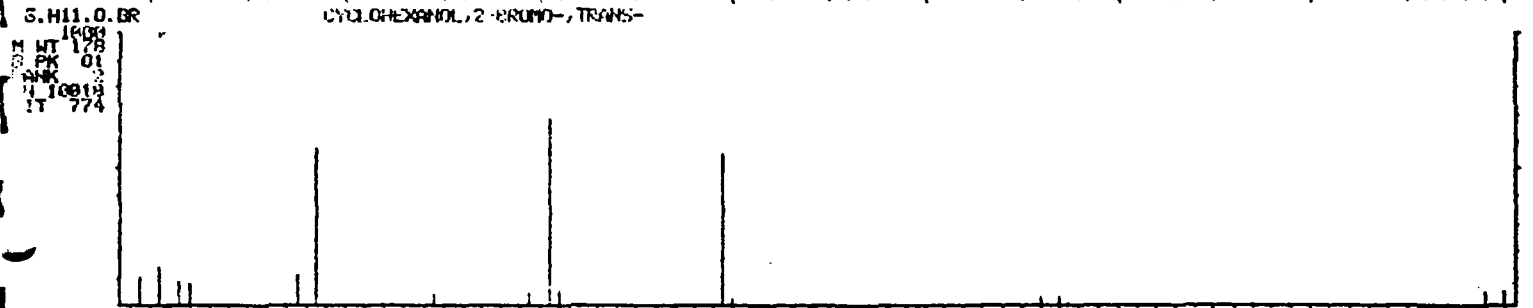
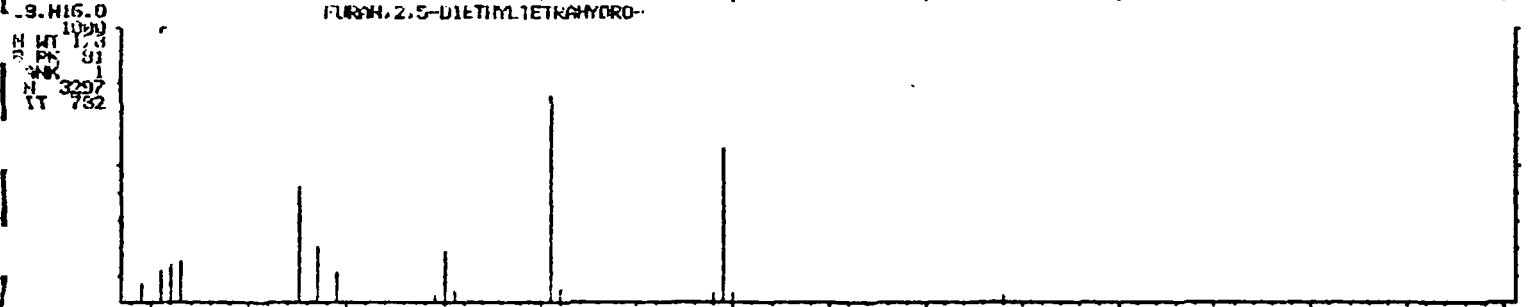
HEXANAL,3-(HYDROXYMETHYL)-4-METHYL-



M/E 50 100 150 200 250

LIBRARY SEARCH
12/21/84 15:58:00 + 11:56
SAMPLE: AB170 1:1.12/16/84
ENHANCED (S 15B 2H 8T)

DATA: 2EU12051006 @ 716 BASE M/E: 81
CAL: FZCAL @ 1 RIC: 4583.



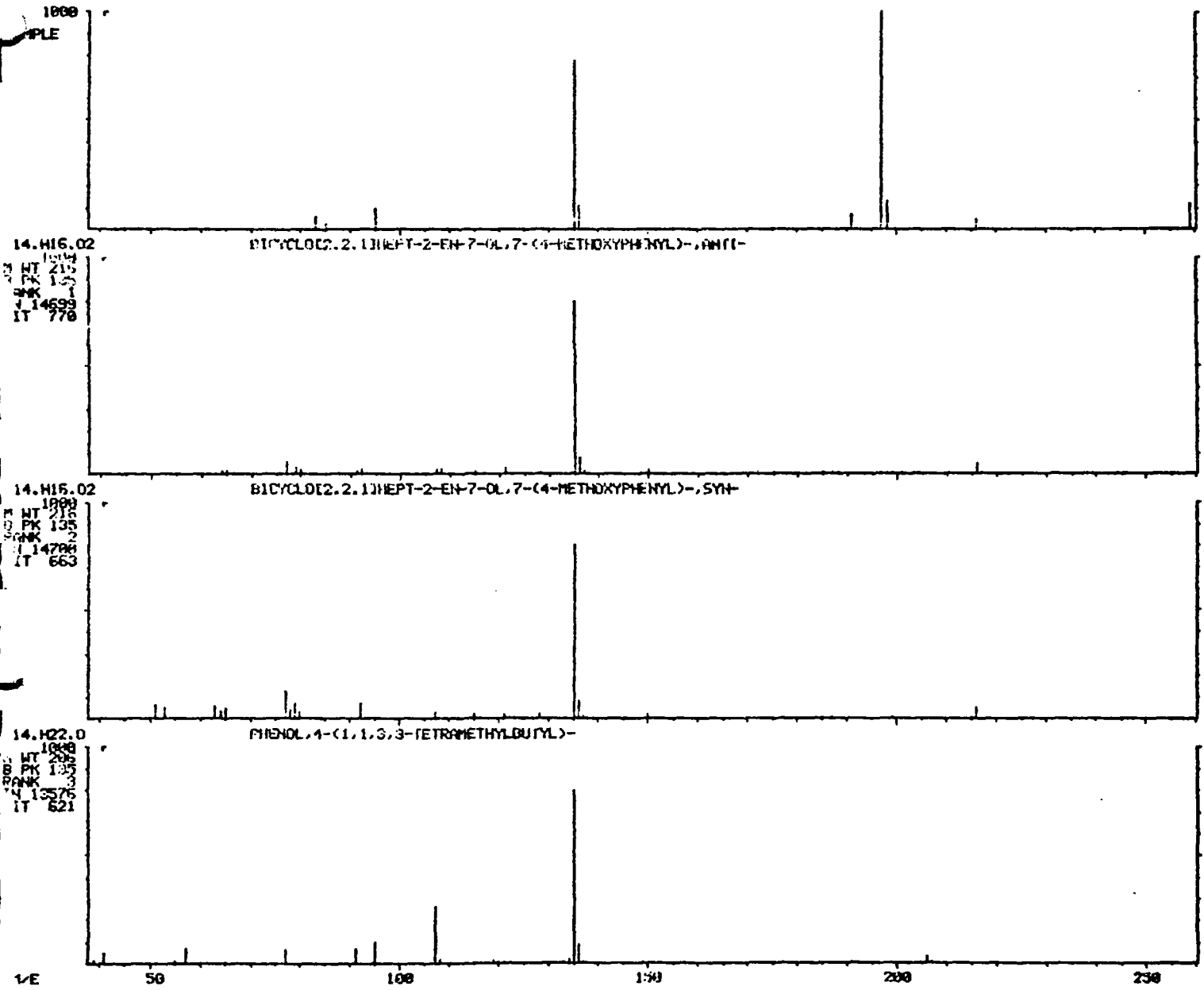
M/E 40 60 80 100 120 140 160 180

0266

LIBRARY SEARCH
12/21/84 15:58:00 + 31:44
SAMPLE: AB17H 1:1,12/18/84
ENHANCED (S 158 2N 0T)

DATA: 2EU12851C86 #1984
CALI: FZCAL # 1

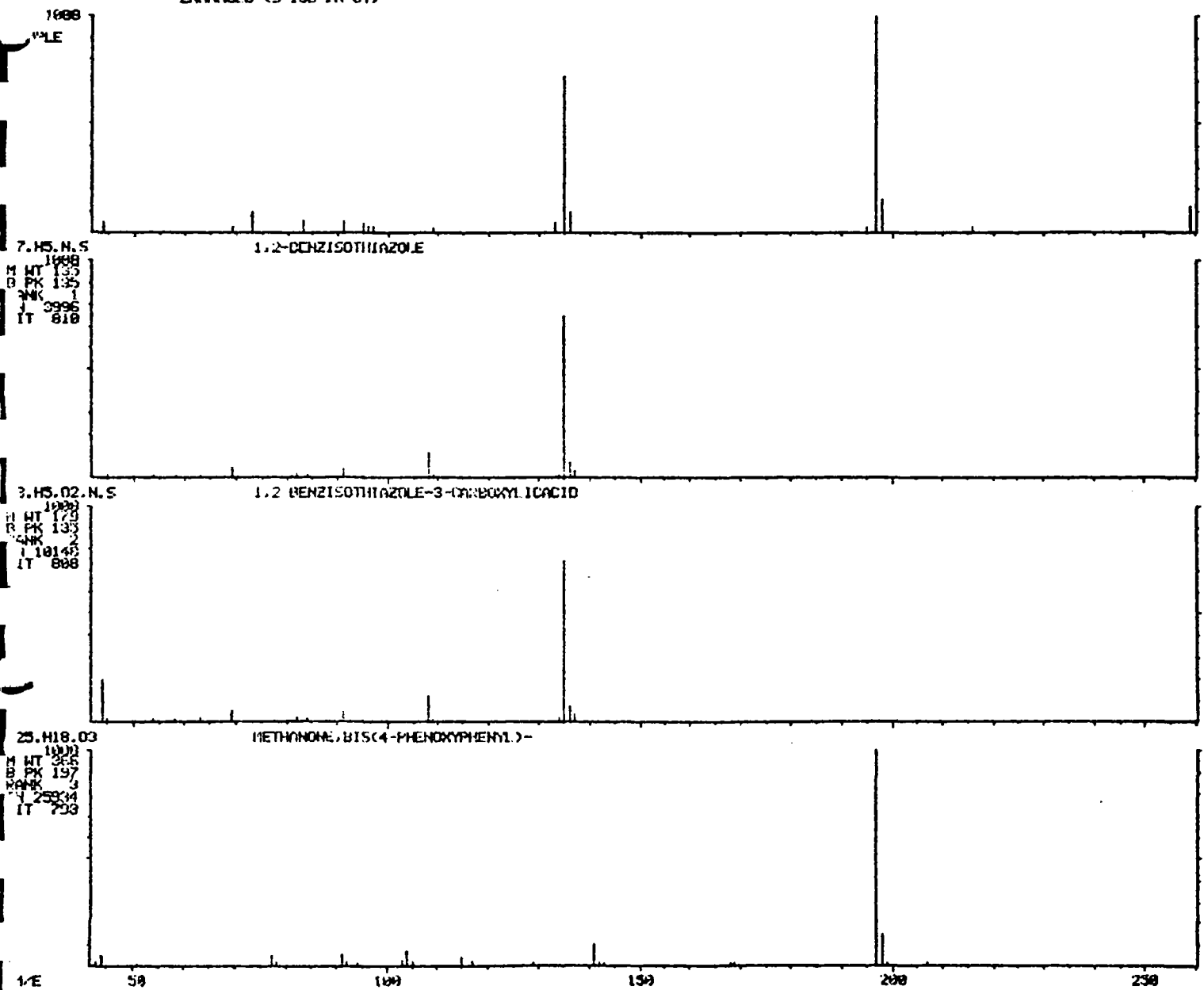
BASE M/E: 197
RIC: 3963.

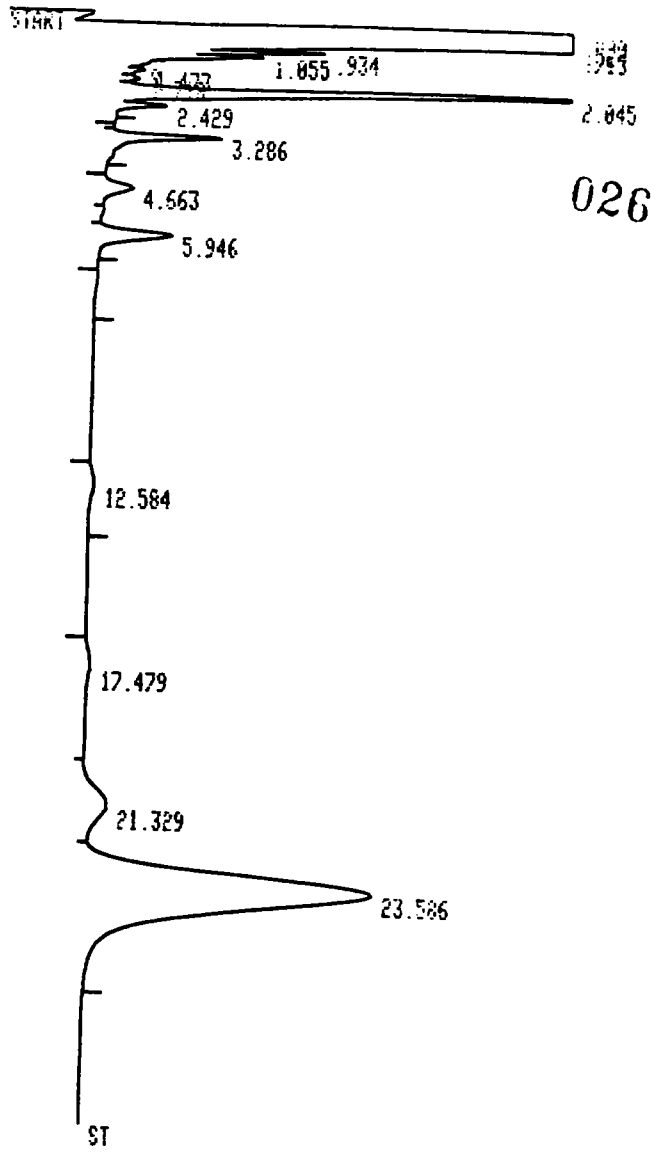


0267

LIBRARY SEARCH
12/21/84 15:53:00 + 33:45
SAMPLE: AB17H 1:1,12/10/84
ENHANCED (S 15B 2N 8T)

DATA: ZEUI2051CR6 #2825 BASE M/E: 197
CAL: F2CAL # 1 RIC: 7255.





0268

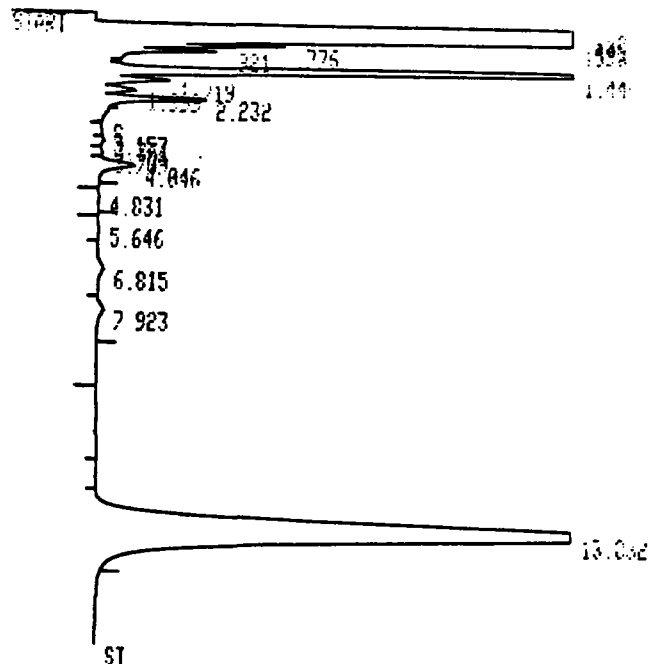
CASE NUMBER 3633
 SAMPLE ID AB 170
 VOLUME INJECTED 2 uL
 COLUMN MP

3633
 RUN # 157 FEB/11/85 23:00:22
 WORKFILE ID: C 5-2-50211-22
 WORKFILE NAME: 8412051-06A
 ID: 5-1-2-84
 Rm MP2
 2 uL
 1 L
 Rest.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.290	2015764	SBH	0.094	53.155
0.524	324127	DTBB	0.071	8.547
0.713	1228463	DSHB	0.073	32.394
0.934	14469	DTBY	0.064	0.382
1.055	9576	DTVB	0.110	9.253
1.718	1105	D PV	0.095	0.029
2.045	128621	VV	0.126	7.392
2.429	5613	VB	0.125	0.148
3.286	13214	PB	0.203	0.349
4.663	3605	BV	0.315	0.095
5.946	8742	PB	0.286	0.231
12.584	582	BB	0.718	0.015
17.479	570	BP	1.024	0.015
21.329	2849	PV	0.995	0.075
23.586	34932	VB	1.145	0.921

TOTAL HGHT= 3792200
 MUL FACTOR= 1.0000E+00

0269



CASE NUMBER 3633
 SAMPLE ID AB170
 VOLUME INJECTED 2ul
 COLUMN SP

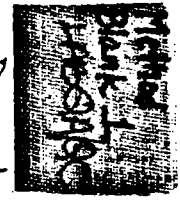
RUN # 393 FEB/17/85 22:32:40
 ID 1-1-1-85 1-1-50217-15 2ul
 8412051-06A Ret.
 Run SP

RT	HEIGHT	TYPE	AR/HT	HEIGHT
0.259	2471993	SBH	0.129	28.057
0.448	1715011	DSHH	0.137	19.465
0.593	2353848	SHH	0.102	26.716
0.776	103651	DTBP	0.065	1.176
0.921	71262	DTPB	0.074	0.800
1.446	1326192	SHB	0.110	15.052
1.719	43481	DTBP	0.103	0.494
1.999	21755	TPV	0.107	0.247
2.232	92129	TVB	0.126	1.046
3.157	1524	BY	0.206	0.017
3.361	2975	VV	0.178	0.034
3.709	2557	VV	0.179	0.029
4.046	34665	VB	0.218	0.396
4.831	1141	BB	0.172	0.013
5.646	1306	BY	0.317	0.010
6.815	5712	VV	0.475	0.065
7.923	6175	VB	0.401	0.426
13.832	555379	PB	0.578	6.303

TOTAL HGHT= 8810300
 MUL FACTOR= 1.0000E+00

Sample Number
Method Blank 1

(VSI) 0417



Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Lab Sample ID No: 7EB1213V000
Sample Matrix: Water
Data Release Authorized By: Zafetkov

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: _____

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: _____
Date Analyzed: 12-13-64
Conc/Dil Factor: NA:NA pH _____
Percent Moisture: 100%
Percent Moisture (Decanted): _____

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	14
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used.
Additional flags or footnotes explaining results are encouraged. However, the
definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10U.

- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number

Method Blank 1

(12/10)

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 12-21-84Conc/Dil Factor: NA

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	10u
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	10u
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number

Method blank

FB/210

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)Date Extracted/Prepared: 12-10-84Date Analyzed: 2-11-85Conc/Dil Factor: 1000 ml : 5 mlCAS
Number (ug/l or ug/Kg
(Circle One))

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul) V_s 1000 ml or W_s _____ V_t 5000 ul V_i 2 ul

 SAMPLE NUMBER:
 HLK

ORGANICS ANALYSIS DATA SHEET
 (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

IAS NUMBER	COMPOUND NAME	FRACTION	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION (UG/L OR UG/KG)
1 29533-770	CYCLOHEXANOL, 4-CHLORO-, TRANS-	ABN	522	213
2 931-179	1,2-CYCLOHEXANEDIOL	ABN	553	108
3	PHENOL, 4-NITRO-	ABN	986	2
4	PYRENE	ABN	1435	15
5	BENZ[<i>a</i>]ANTHRACENE	ABN	1632	24
6	BENZ[<i>a</i>]ANTHRACENE	ABN	1639	22
7 7154-805	HEPTANE, 3, 3, 5-TRIMETHYL-	ABN	1648	8
8 6069-983	CYCLOHEXANE, 1-METHYL-4-(1-METHYLETHYL)	ABN	1819	4
9 198-550	PERYLENE	ABN	1861	25
10 198-55-2	PERYLENE	ABN	1867	31
11 140-66-9	PHENOL, 4-(1, 1, 3, 3-TETRAMETHYLBUTYL)-	ABN	1903	12
12 198-55-0	PERYLENE	ABN	1951	27
13 98-54-4	PHENOL, 4-(1, 1-DIMETHYLETHYL)-	ABN	2021	22

No compounds detected (volatiles)

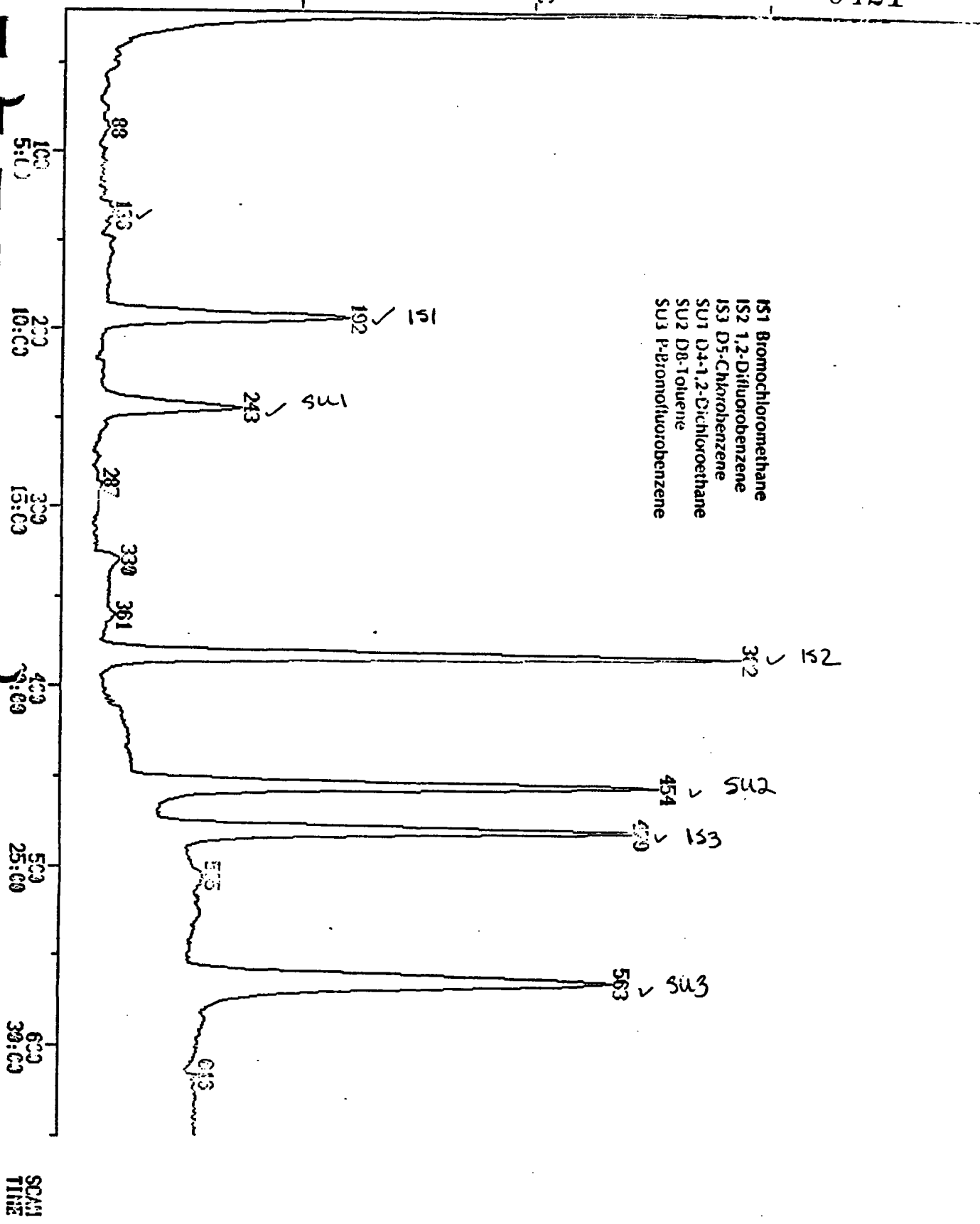
12/13/01 6:45:03
SAMPLE: F4.D.EI7.C0000.C0.Y.NA:NA.M3
RUN#: 6 1. 650 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

DATA: 4EB1213V000 01
CALL: F4CAL 01

SCANS 20 TO 650

208793.

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



DATA: 4EB1213V000.TI
 12/13/84 6:45:00
 SAMPLE: F4,D,BLK,00000,00,V,NA:NA,NA\$
 SUBMITTED BY: EPA ANALYST: BWS

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

NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	ACETONE
8	2-BUTANONE

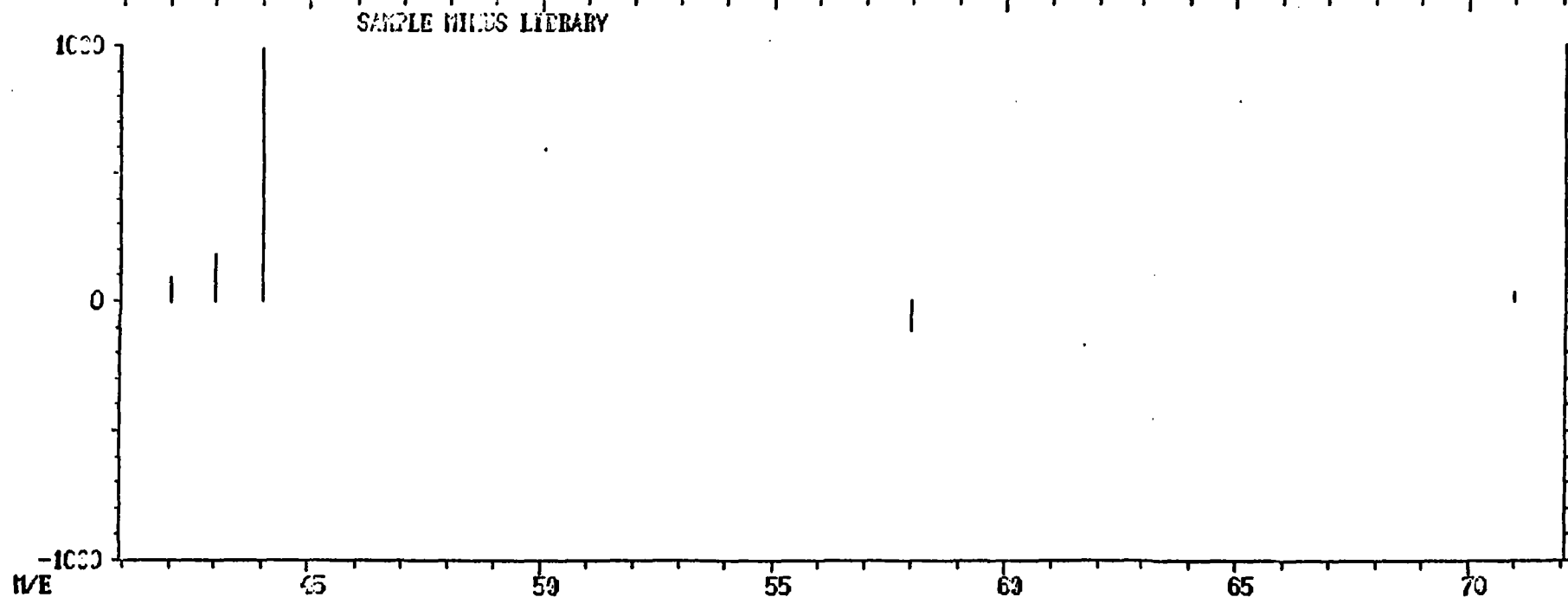
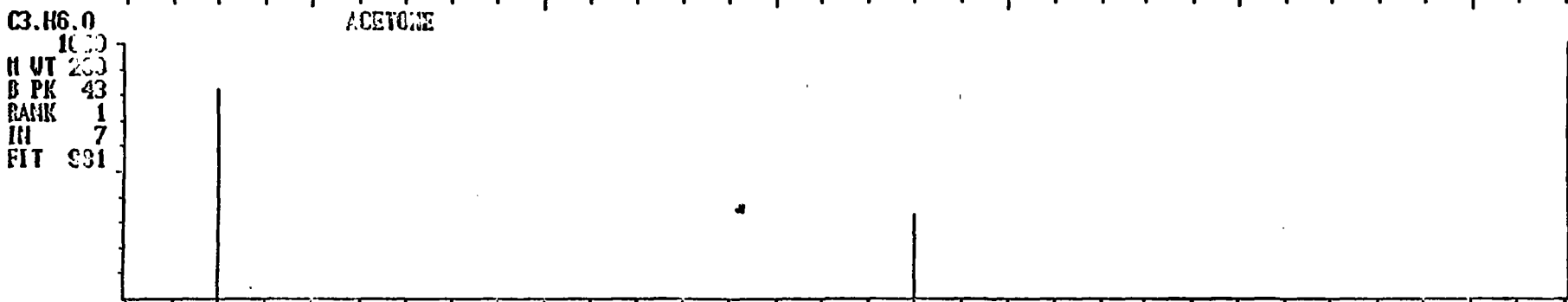
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	192	9:35	1	1.000	A BB	67917.	50.000 UG/L	10.86
2	67	243	12:09	1	1.256	A BB	70056.	07.542 %	10.31
3	114	332	19:05	3	1.000	A BB	396586.	50.000 UG/L	10.35
4	117	478	23:54	4	1.000	A?BV	282535.	50.000 UG/L	10.06
5	98	454	22:42	4	0.950	A BB	375209.	99.933 %	21.71
6	95	562	20:05	4	1.176	A?B3	251591.	100.055 %	21.72
7	43	136	6:49	1	0.708	A?V3	13035.	13.500 UG/L	2.93
8	43	236	11:43	3	0.618	A?B3	10235.	9.530 UG/L	2.07

LIBRARY SEARCH
12/13/04 6:45:00 + 6:48
SAMPLE: F4.D.EK.CCCC.CC.V.NA:NA.NAS
ENHANCED (S 158 2H 0Y)

DATA: 4ED1213V000 0 136
CALL: F4CAL 0 1

BASE I/E: 43
RIC: 1533.

1.00

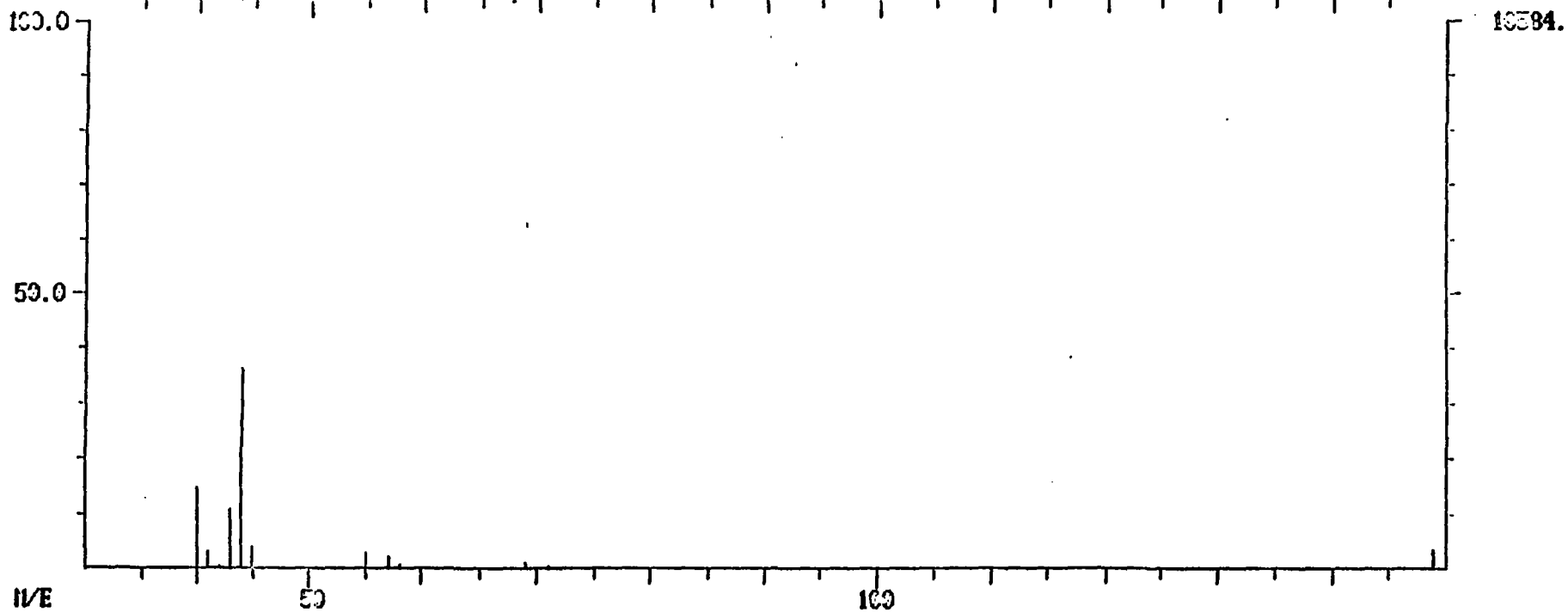
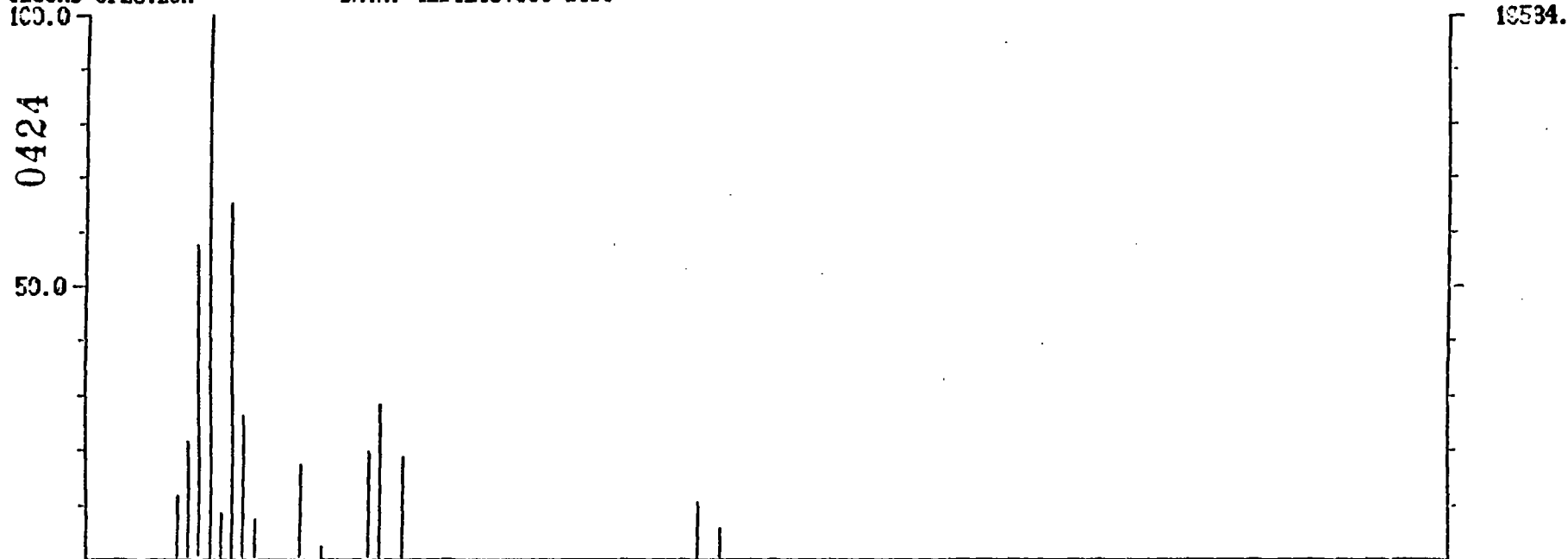


DUAL MASS SPECTRUM
10/15/84 6:32:00 + 5:30
SAMPLE: F4.D.VER.CO1CO.CO.V.MA:MA.MAS
DATA: 4EB1213VCCO 0136

DATA: VCSVD 0110
CALI: F0CAL 01

BASE I/E: 01/ 44 000
RIC: 78007.7 15497.

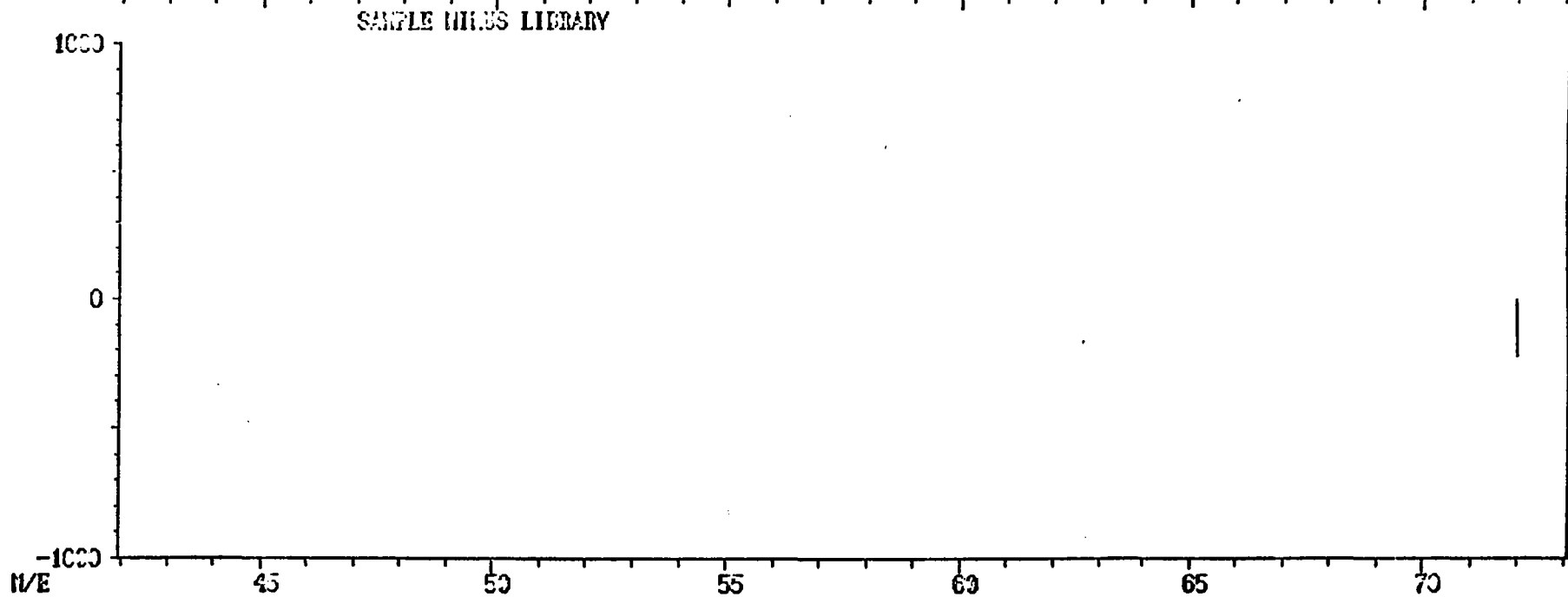
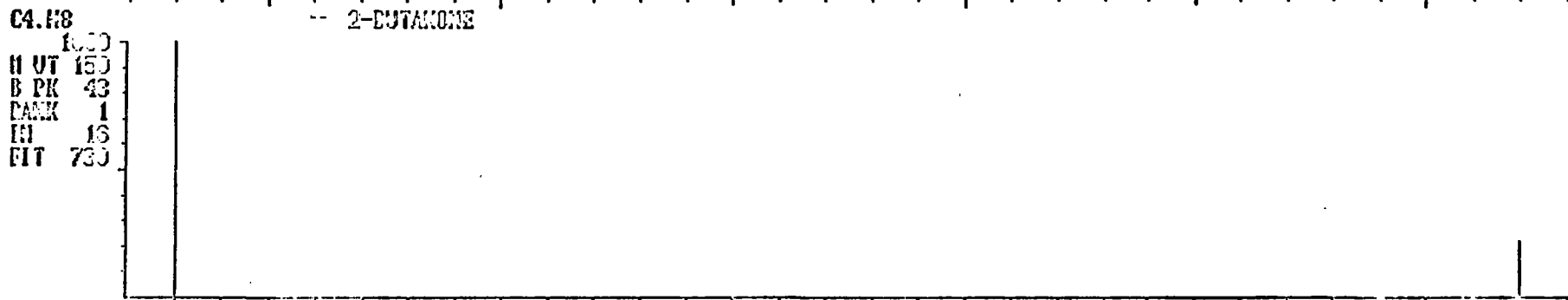
SECOND SPECTRUM



LIBRARY SEARCH
12/13/04 6:45:00 + 11:43
SAMPLE: F4.D.DLK.C0000.CO.V.NA:NA.MAS
ENLARGED (S 153 2H 01)

DATA: 4EB1213V000 0 236
CALI: FOCAL 0 1

BASE I/E: 43
R/C: 472.

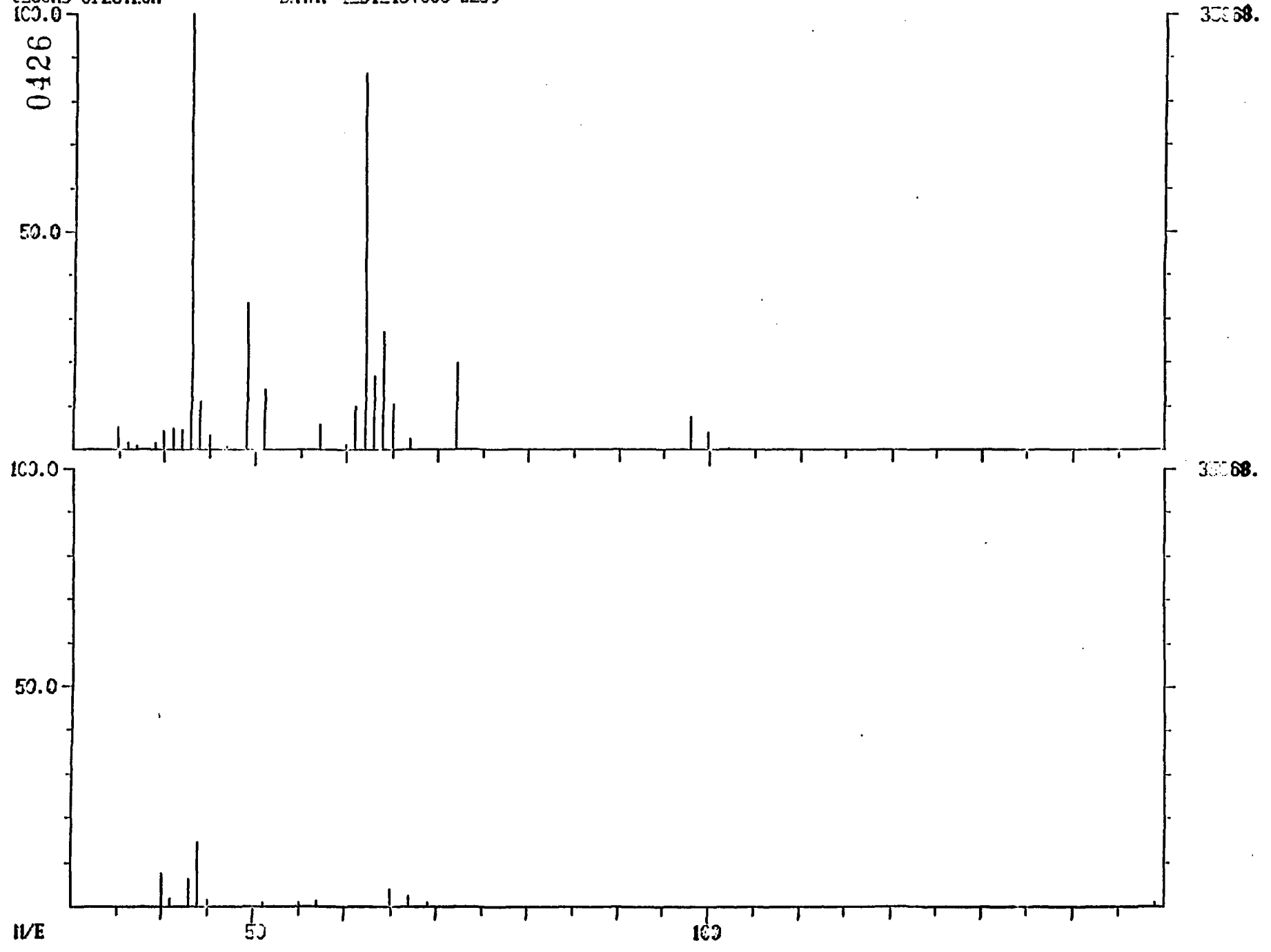


DUAL MASS SPECTRUM
10/15/81 6:32:00 + 10:48
SAMPLE: FL. B. VER. CO100. CO. V. MA: HA. HAS
DATA: 4EB1213/000 0236

DATA: VGSTD 0210
CALI: FICAL 01

BASE NAME: 43/ 41 100 v
PIC: 135870./ 15263.

SECOND SPECTRUM



RIC
12/21/84 8:01:00
SAMPLE: BLK
RANGE: G 1.2550

DATA: 2EB1210C001 #1
CALI: F2CAL #1

SCANS 300 TO 2550

LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

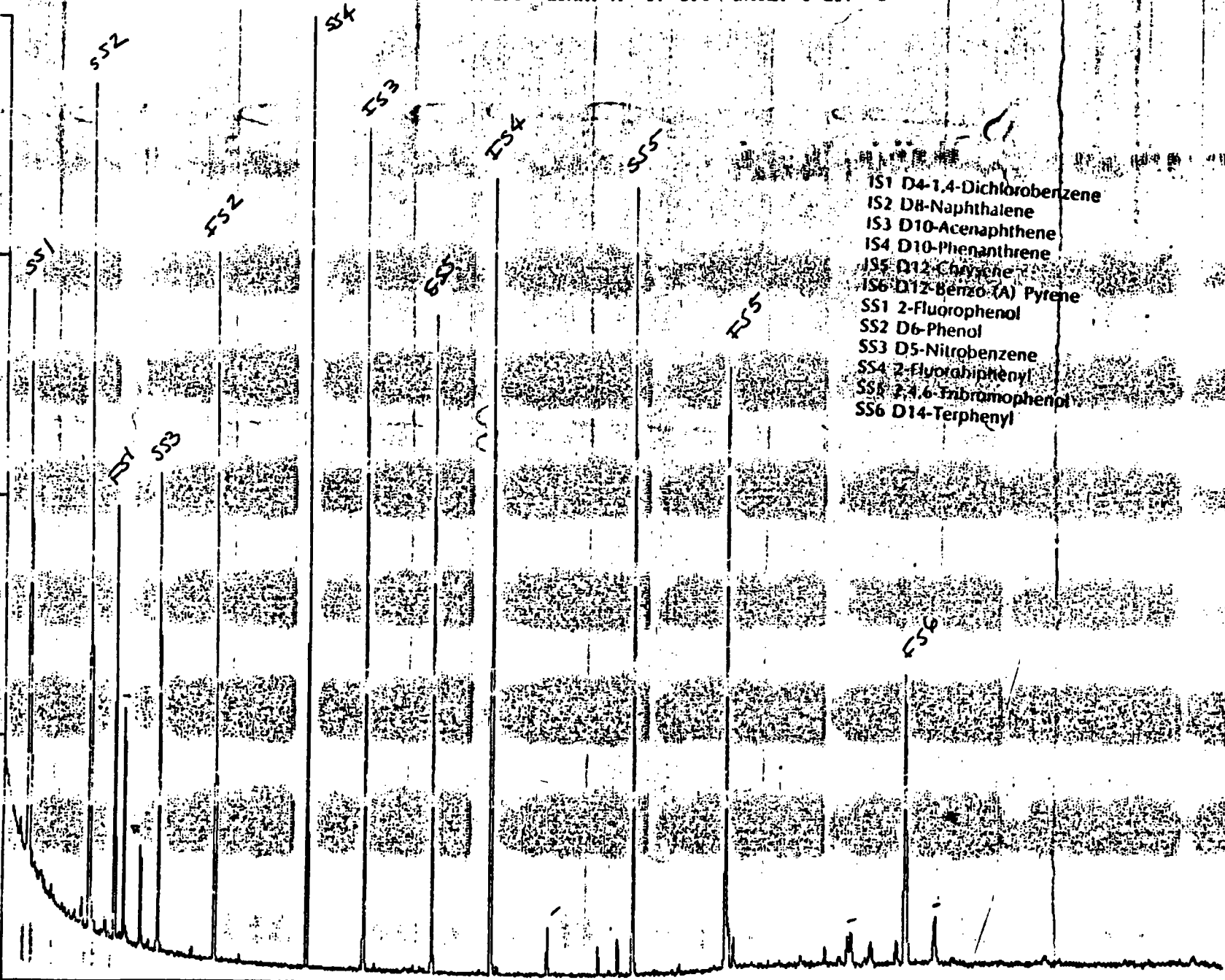
236544.

RADIAN DC • FC43-0

ANALYST: BUS

RIC

100.0



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo-(A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

500
3:22

1000
3:40

1500
2:00

2000
3:20

2500
4:00

SCAN
TIME

DATA: 2EB1210C001.TI
12/21/84 8:01:00

SAMPLE: BLK
SUBMITTED BY: QA/QC ANALYST: BWS

AMOUNT=AREA(HGHT)*RESP.FAC. FROM LIBRARY ENTRY

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 DI-N-BUTYLPHTHALATE

NO	M/E	SCAN	TIME	REF	RPT	METH	AREA(HGHT)	AMOUNT	%INT
1	152	506	8:25	1	1.000	A BB	57819.	40.000 UG/ML	3.53
2	136	690	11:30	2	1.000	A BB	196152.	40.000 UG/ML	3.53
3	164	967	16:07	3	1.000	A BB	114183.	40.000 UG/ML	3.53
4	188	1202	20:02	4	1.000	A BB	179075.	40.000 UG/ML	3.53
5	240	1635	27:15	5	1.000	A BB	153435.	40.000 UG/ML	3.53
6	264	1967	32:47	6	1.000	A BB	132669.	40.000 UG/ML	3.53
7	112	348	5:48	1	0.688	A?BB	116323.	191.020 %	16.06
8	99	460	7:40	1	0.909	A BB	207452.	218.837 %	19.31
9	82	586	9:46	2	0.849	A BB	84247.	75.765 %	6.69
10	172	861	14:21	3	0.899	A BB	179849.	125.759 %	11.10
11	330	1093	18:13	3	1.130	A BB	50165.	171.505 %	15.14
12	244	1463	24:23	5	0.895	A BB	191370.	106.091 %	9.36
13	149	1306	21:46	4	1.000	A BB	19148.	4.092 UG/ML	0.36

LIBRARY SEARCH
12/21/84 8:01:00 + 21:46
SAMPLE: BLK
ENHANCED (S 15B 2N 0T)

DATA: 2EB1210C801 #1306
CALI: F2CAL # 1

BASE N/E: 149
RIC: 9727.

202

1000
SAMPLE
042J

1000
N WT 150
B PK 149
RANK 1
IN 77
RFT 873

DI N OCTE MINERALTE
BUTYL

SAMPLE MINUS LIBRARY

-1000
N/E

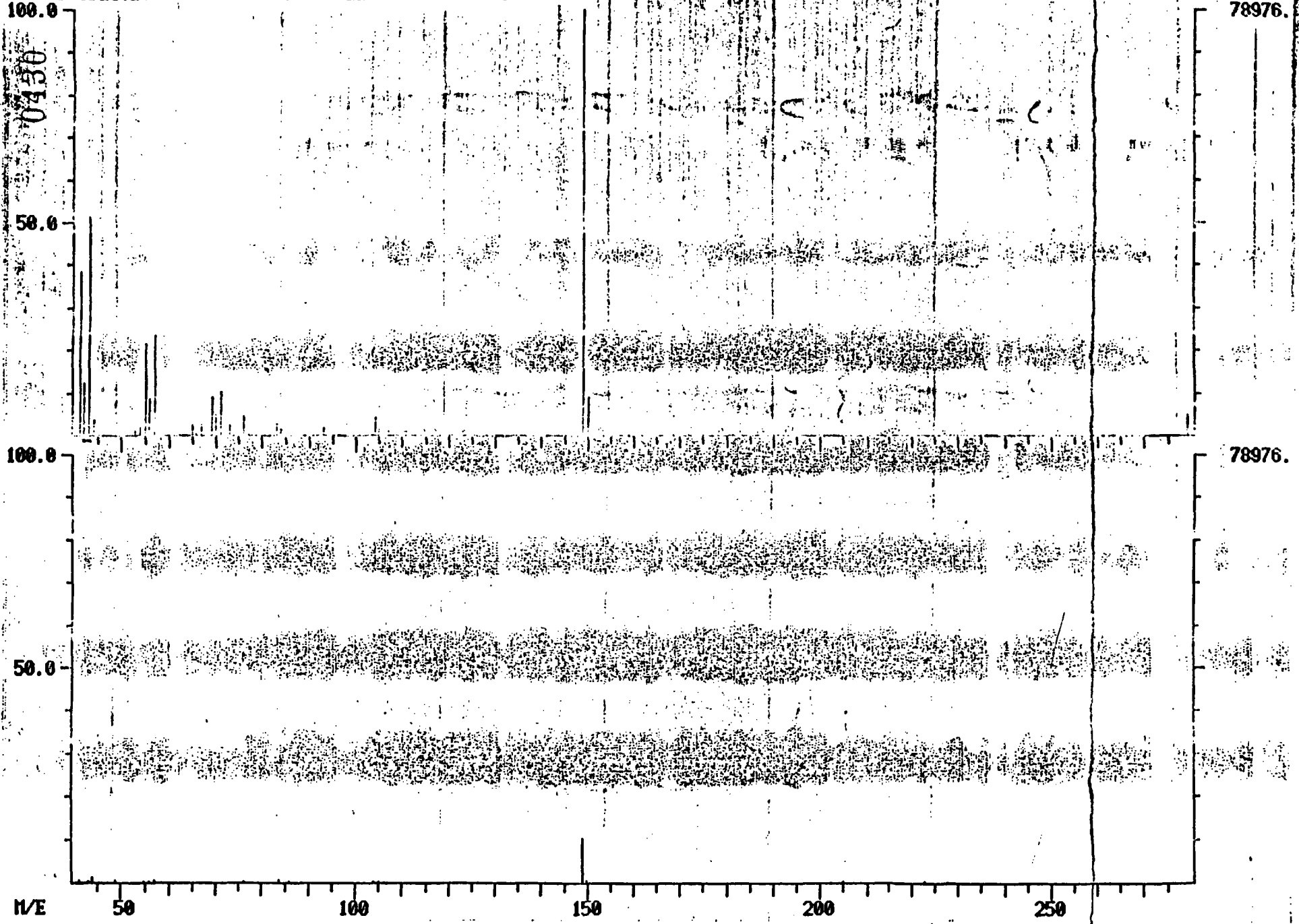
50 100 150 200 250

DUAL MASS SPECTRUM
11/09/84 4:38:00 + 29:05
SAMPLE: F2.D.CAL.00080.00.C.NA:NA.NAS
DATA: 2EB1210C001 #1306

DATA: EPSTD #1745
CALI: F2CAL #1

BASE N/E: 149/ 149
RIC: 257279./ 13199.

SECOND SPECTRUM



QUANTITATION REPORT FILE: NHSL

DATA: 2EB1210C001.TI

12/21/84 8:01:00

SAMPLE: BLK

SUBMITTED BY: QA/QC

ANALYST: BWS

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

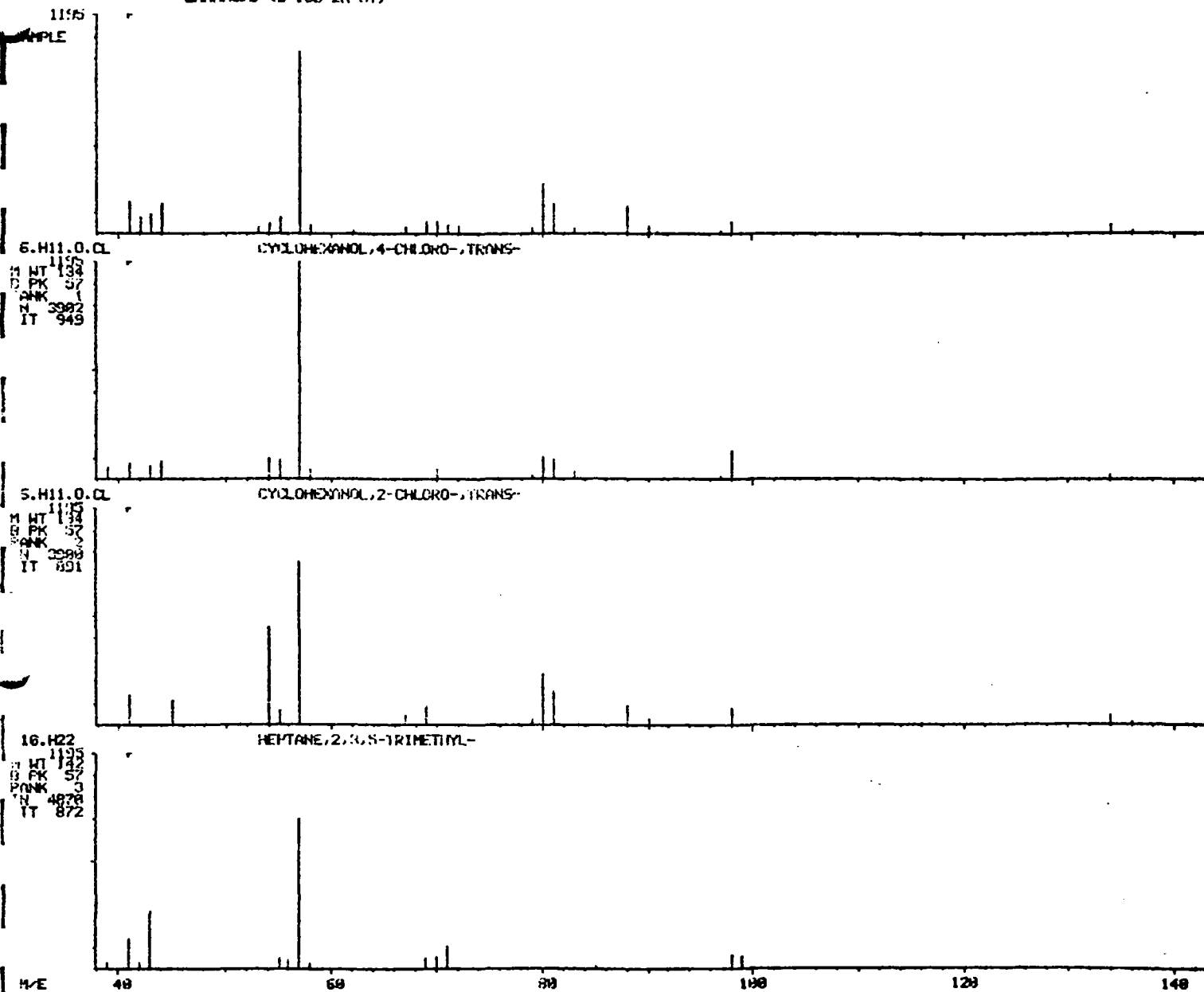
NO NAME

1 D4-1,4-DICHLOROBENZENE (IS)
 2 DB-NAPHTHALENE (IS)
 3 D10-ACENAPHTHENE (IS)
 4 D10-PHENANTHRENE (IS)
 5 D12-CHRYSENE (IS)
 6 D-12 BENZO(A)PYRENE (IS)
 7 CYCLOHEXANOL,4-CHLORO--,TRANS-
 8 1,2-CYCLOHEXANEDIOL
 9 PHENOL,4-NITRO-
 10 PYRENE
 11 BENZ(A)ANTHRACENE
 12 BENZ(A)ANTHRACENE
 13 HEPTANE,3,3,5-TRIMETHYL-
 14 CYCLOHEXANE,1-METHYL-4-(1-METHYLETHYL)--,CIS-
 15 PERYLENE
 16 PERYLENE
 17 PHENOL,4-(1,1,3,3-TETRAMETHYLBUTYL)-
 18 PERYLENE
 19 PHENOL,4-(1,1-DIMETHYLETHYL)-

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	UG/ML	%TOT
1	152	506	8:26	1	1.000	A BB	57819.	40.000	UG/ML	5.31
2	136	690	11:30	2	1.000	A BB	196152.	40.000	UG/ML	5.31
3	164	967	16:07	3	1.000	A BB	114183.	40.000	UG/ML	5.31
4	188	1202	20:02	4	1.000	A BB	179075.	40.000	UG/ML	5.31
5	240	1635	27:15	5	1.000	A BB	153435.	40.000	UG/ML	5.31
6	264	1967	32:47	6	1.000	A BB	132669.	40.000	UG/ML	5.31
7	TOT	522	8:42	1	1.032	A UU	102671.	213.109	UG/L	28.30
8	TOT	553	9:13	1	1.093	A BU	52077.	108.093	UG/L	14.35
9	TOT	986	16:26	3	1.020	A BB	2138.	2.247	UG/L	0.30
10	TOT	1435	23:55	5	0.878	A UB	19252.	15.058	UG/L	2.00
11	TOT	1632	27:12	5	0.998	A BU	30251.	23.661	UG/L	3.14
12	TOT	1635	27:19	5	1.002	A UB	27676.	21.647	UG/L	2.87
13	TOT	1648	27:28	5	1.008	A UU	10718.	8.383	UG/L	1.11
14	TOT	1819	30:19	5	1.113	A UB	4789.	3.746	UG/L	0.50
15	TOT	1861	31:01	6	0.946	A BU	27452.	24.833	UG/L	3.30
16	TOT	1867	31:07	6	0.949	A UB	34081.	30.830	UG/L	4.09
17	TOT	1903	31:43	6	0.967	A UB	13442.	12.160	UG/L	1.61
18	TOT	1951	32:31	6	0.992	A BB	29967.	27.108	UG/L	3.60
19	TOT	2021	33:41	6	1.027	A UU	24569.	22.225	UG/L	2.95

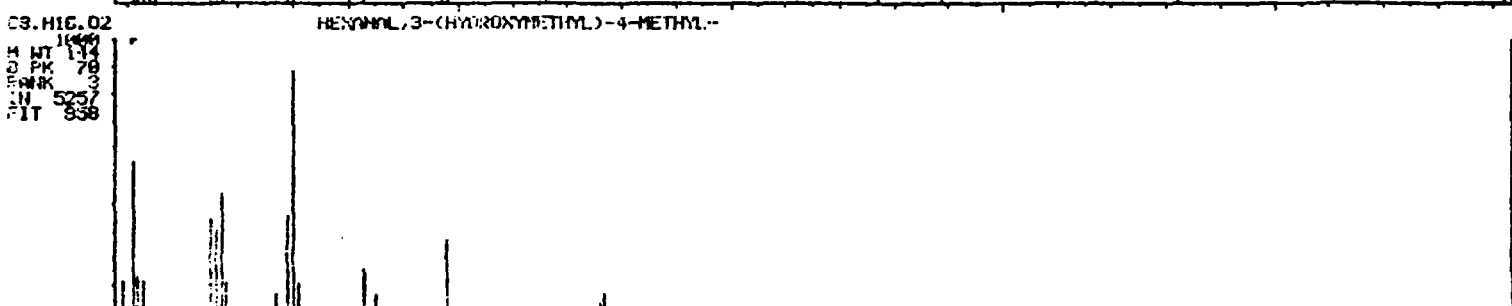
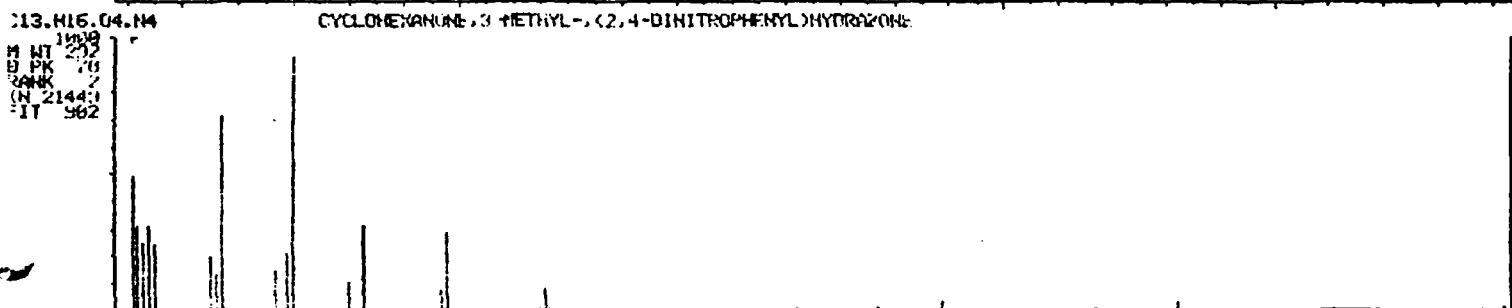
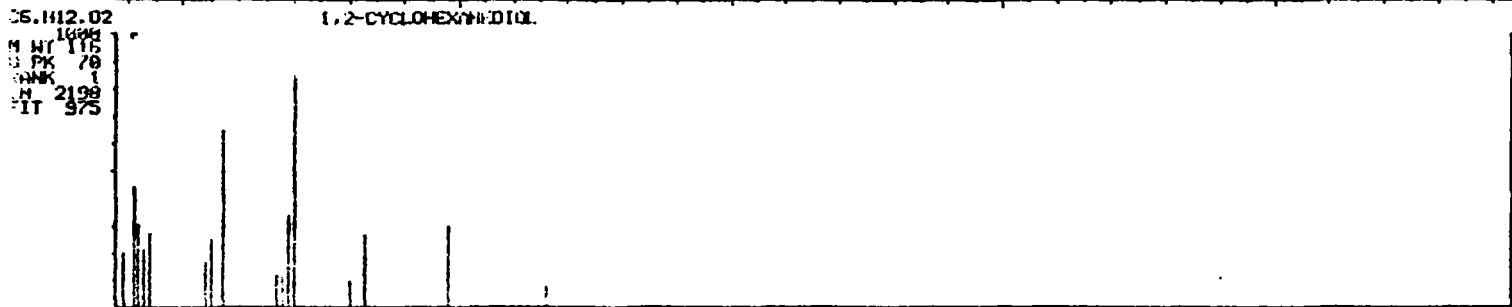
LIBRARY SEARCH
12/21/84 8:01:00 + 0:42
SAMPLE: DLK
ENHANCED (S 158 2N 01)

DATA: ZEB1210C001 # 522 BASE M/E: 57
CAL: F2CAL # 1 RIC: 43135.



LIBRARY SEARCH
12/21/84 8:01:00 + 9:13
SAMPLE: RLK
EXTENDED (S 150 2H RT)

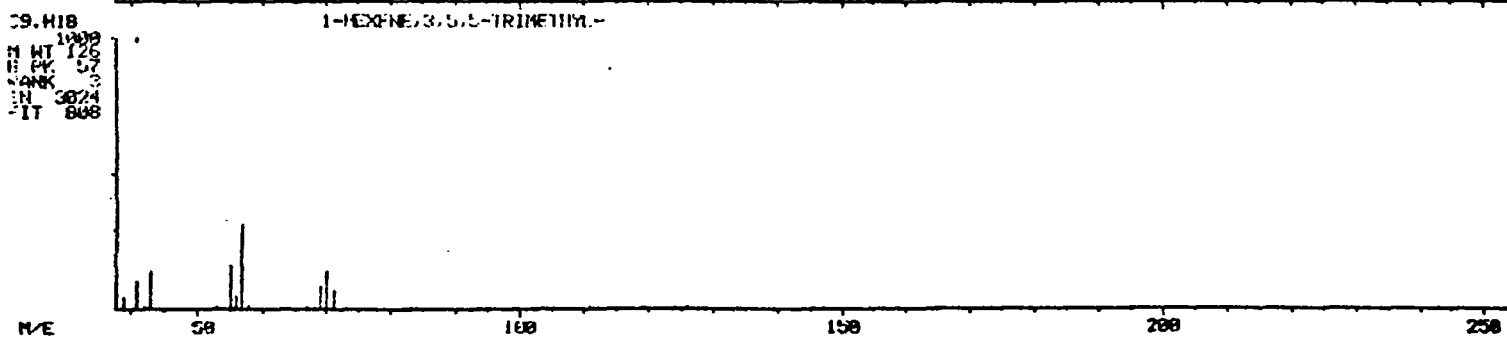
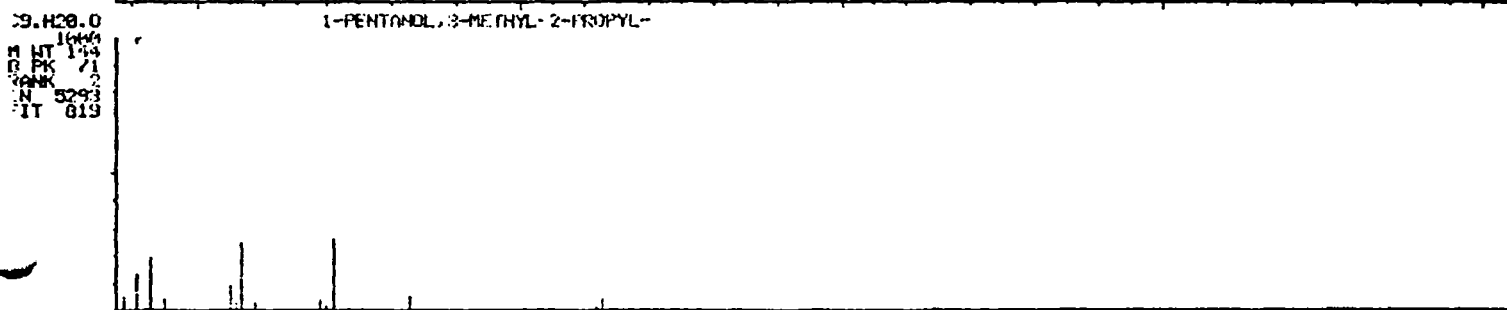
DATA: 2E31210001 # 553 BASE IVE: 78
CALI: FZCAL # 1 RIC: 18719.



M/E 50 100 150 200 250

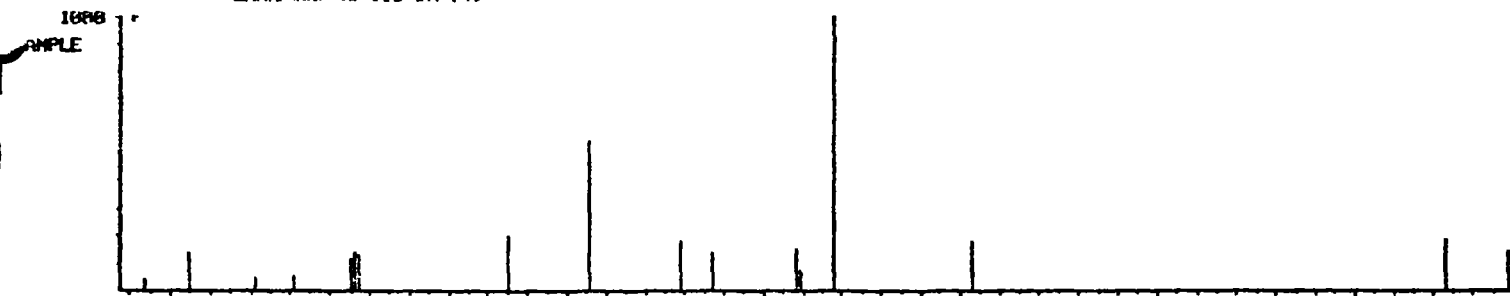
LIBRARY SEARCH
12/21/84 8:01:00 + 27:28
SAMPLE: BLK
ENHANCED (S 158 2H 01)

DATA: 2ED1210C001 #1648
CAL1: FZCAL # 1
BASE M/E: 143
RIC: 6023.



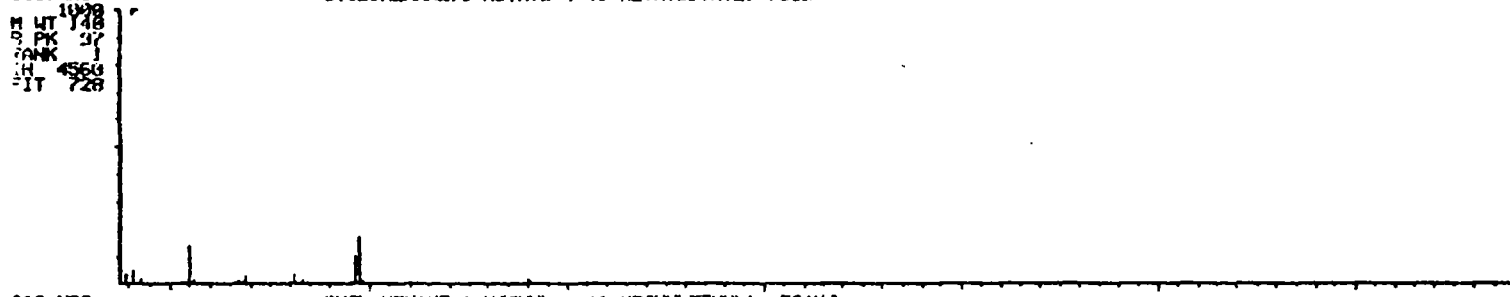
LIBRARY SEARCH
12/21/04 8:01:00 + 30:18
SAMPLE: ELK
ENHANCED (S 158 2N 01)

DATA: 2ED1210C001 01318 BASE M/E: 218
CAL: F2CAL # 1 RIC: 3723



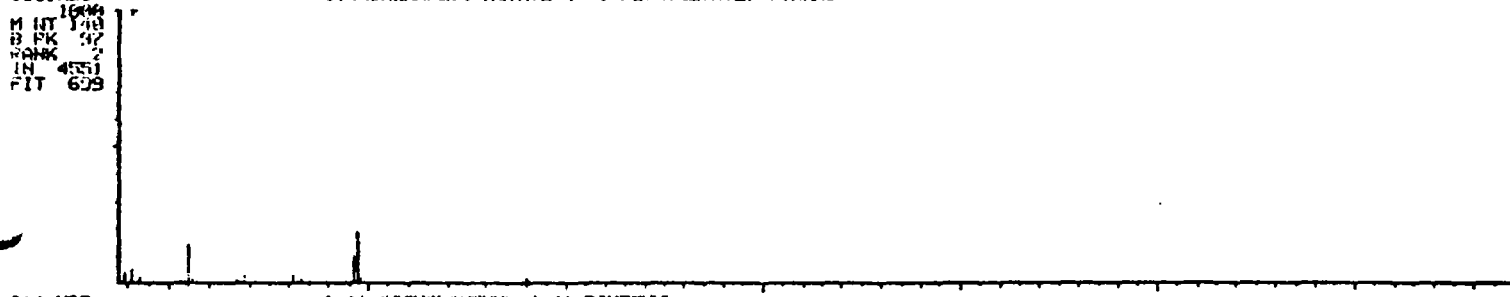
C10.H28
CYCLOHEXANE, 1-METHYL-4-(1-METHYLETHYL)-, CIS-

1000
SAMPLE
C10.H28
M INT 148
PK 37
PANK 1
IN 4560
FIT 728



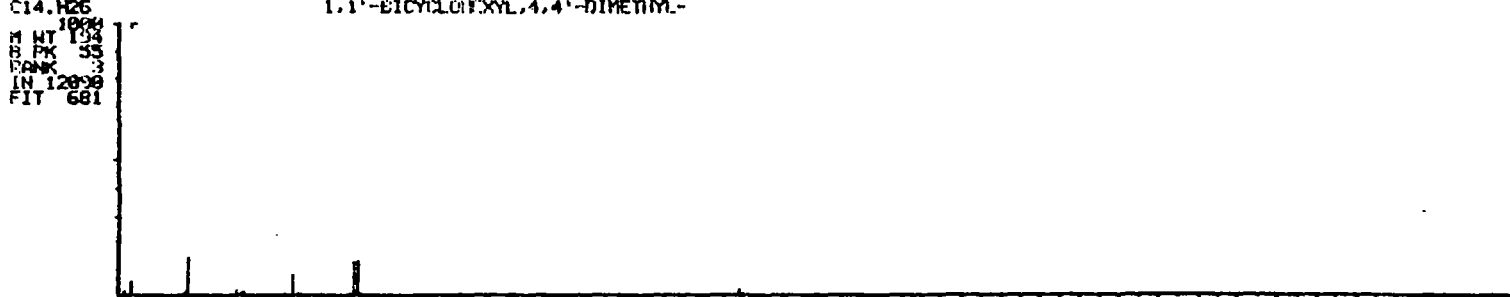
C10.H28
CYCLOHEXANE, 1-METHYL-4-(1-METHYLETHYL)-, TRANS-

1000
M INT 148
PK 37
PANK 1
IN 4551
FIT 699



C14.H26
1,1'-BICYCLOHEXYL, 4,4'-DIMETHYL-

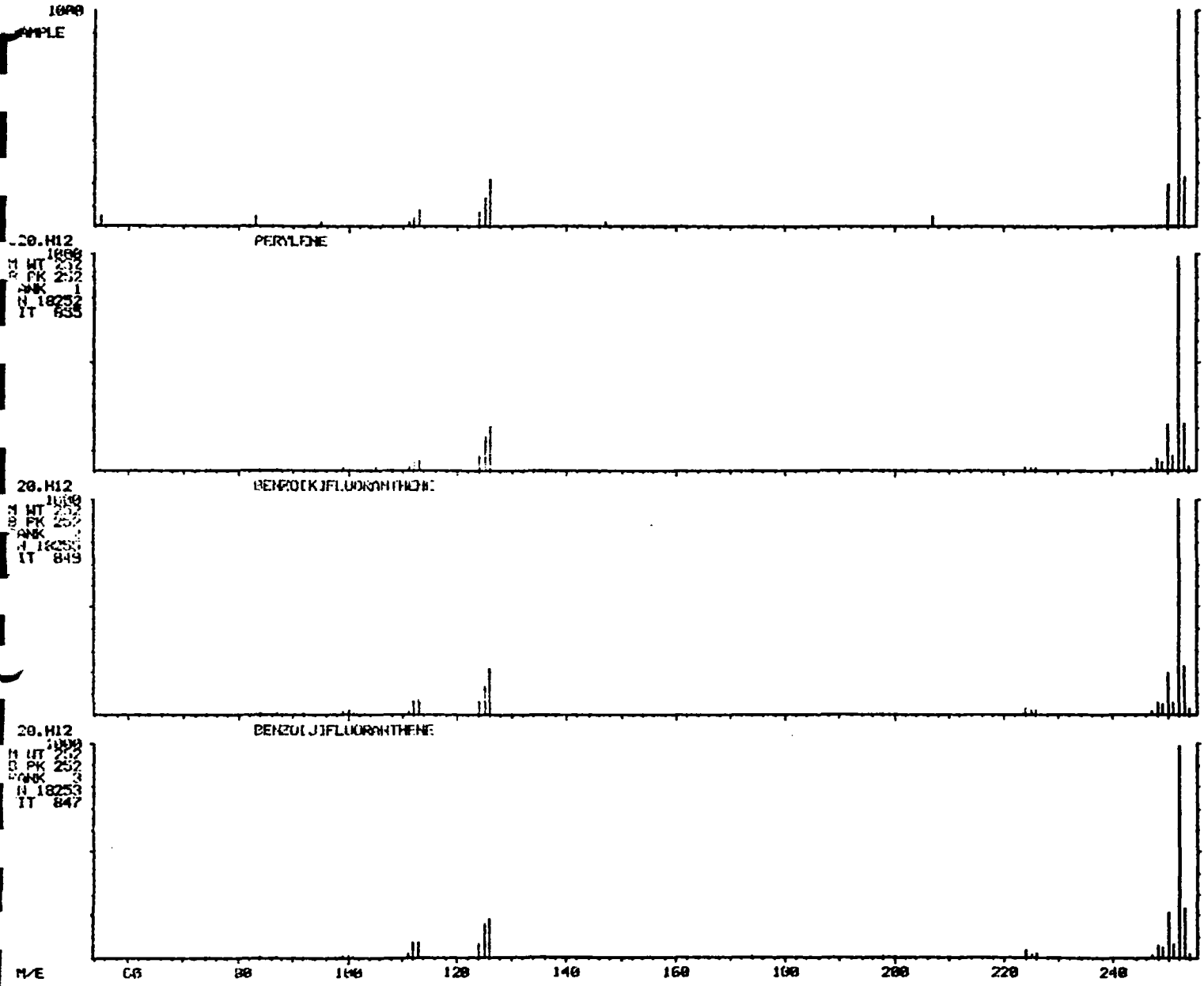
1000
M INT 134
PK 33
PANK 3
IN 12039
FIT 681



M/E 50 100 150 200 250 300 350

LIBRARY SEARCH
12/21/94 8:01:00 + 31:07
SAMPLE: PLK
ENHANCED (S 150 2H 01)

DATA: 2EB1210C001 #1857 BASE IVE: 252
CAL: F2CAL # 1 RIC: 5635.



LIBRARY SEARCH
12/21/74 8:01:00 + 31:44
SAMPLE: BLK
ENHANCED (S 17B 2H 0T)

DATA: ZEB1210001 #1984
CAL: FZCAL # 1

BASE IVE: 137
RIC: 4647.



14.H22.0
1000
M HT 200
PK 135
ANK 1
J 13576
IT 885

PHENOL,4-(1,1,3,3-TETRAMETHYLBUTYL)-

14.H22.0
1000
M HT 200
PK 135
ANK 1
J 13598
IT 759

PHENOL,4-(2,2,3,3-TETRAMETHYLBUTYL)-

14.H16.02
1000
M HT 216
PK 135
ANK 3
J 14550
IT 768

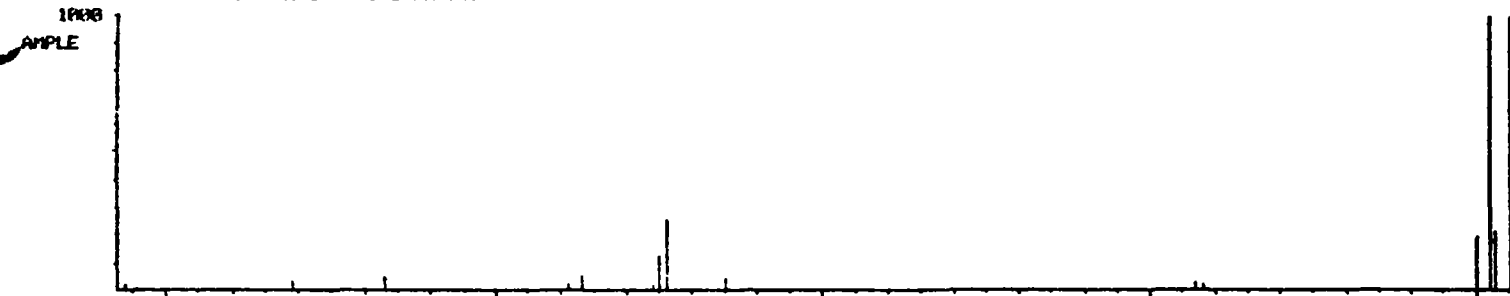
BICYCLO[2.2.1]HEPT-2-EN-7-OL,7-(4-METHOXYPHENYL)-,ANIL-

ME 50 100 150 200 250

LIBRARY SEARCH
12/21/84 8:01:00 + 32:31
SAMPLE: BLK
ENHANCED (S 15B 2H 8T)

DATA: ZFB1210C001 #1951
CAL1: FZCAL # 1

BASE M/E: 252
R1C: 5783.



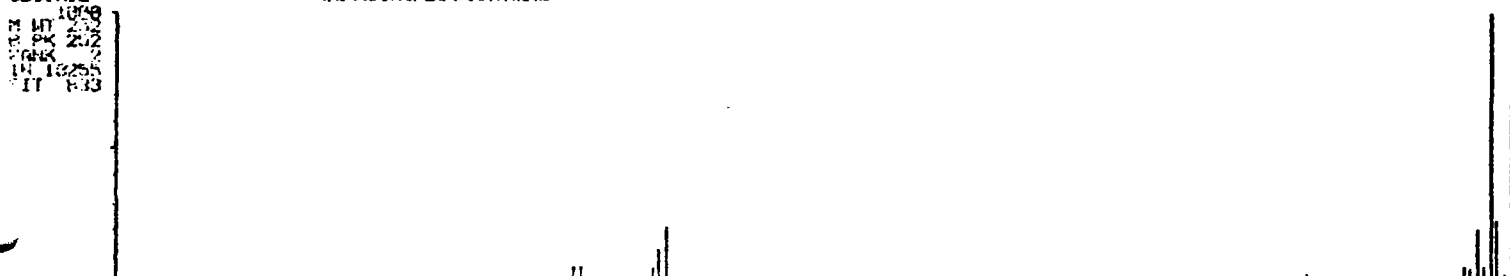
C20.H12
M WT 1090
R PK 252
WPK 1
IN 18252
FIT 842

PERYLONE



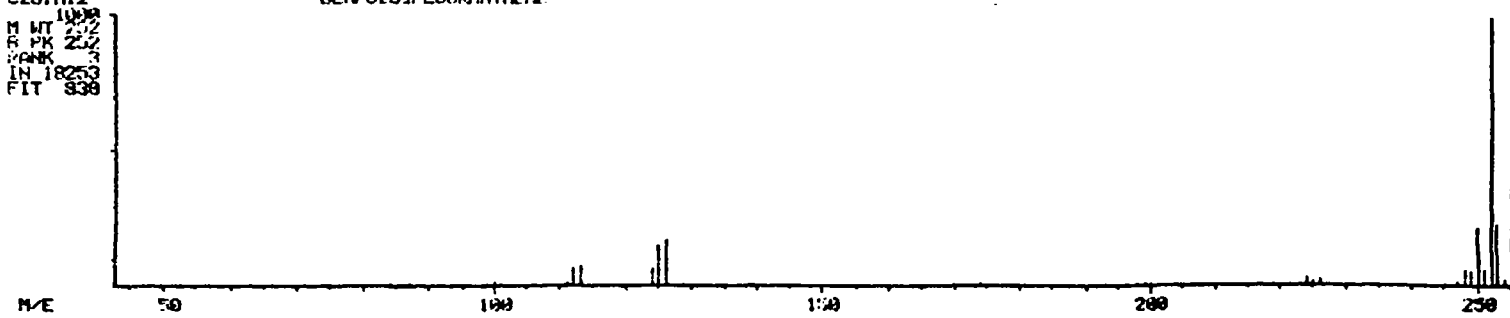
C20.H12
M WT 1090
R PK 252
WPK 2
IN 18255
FIT 833

BENZOLKIFLUORANTHENE



C20.H12
M WT 1090
R PK 252
WPK 3
IN 18253
FIT 838

BENZOLJIFLUORANTHENE



M/E 50 100 150 200 250

LIBRARY SEARCH
12/21/84 8:01:08 + 33:41
SAMPLE: BLK
ENHANCED (S 158 2N 8T)

DATA: 2EB1210081 #2821
CAL: FZCAL # 1

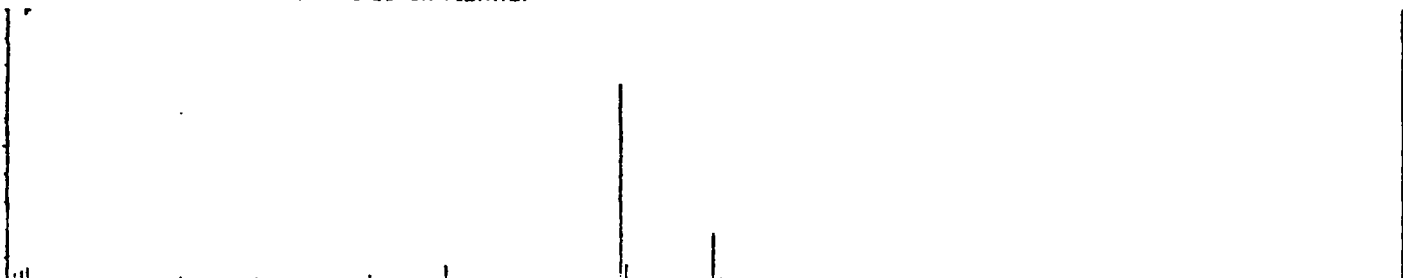
BASE M/E: 197
RTC: 10311.



019.H14.0

PHENOL, 4-(1,1-DIMETHYLETHYL)-

158
M WT 158
PK 133
ANK
IN 5921
IT 608



019.H14.0

PHENOL, 3-(1,1-DIMETHYLETHYL)-

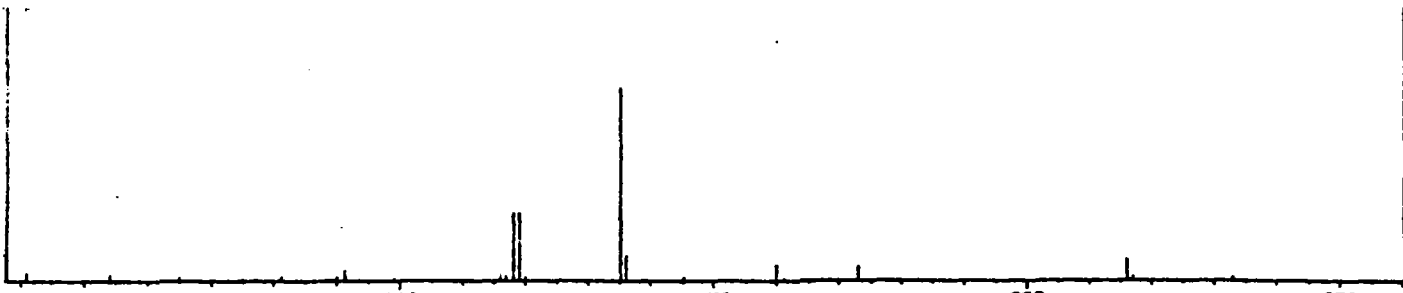
158
M WT 158
PK 133
ANK
IN 5921
IT 619



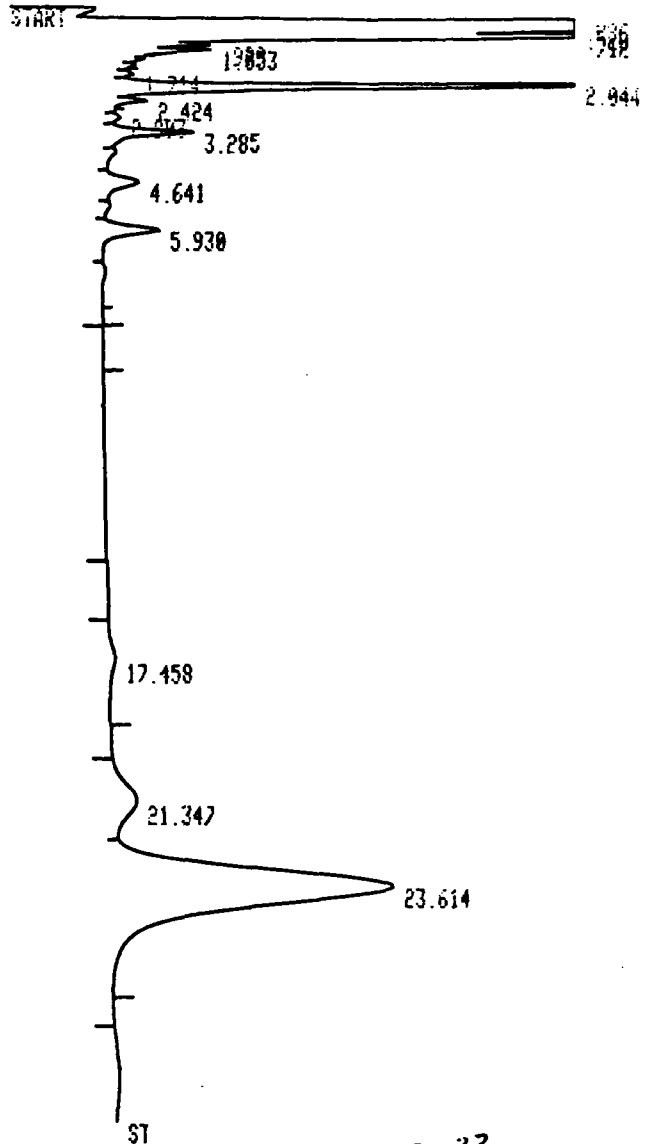
019.H19.02-N

0-GLUCONIDE, 1,6-DI-O- (1-HYDROXYCYCLOHEXYL)-

158
M WT 158
PK 133
ANK
IN 16174
IT 163



M/E 50 100 150 200 250



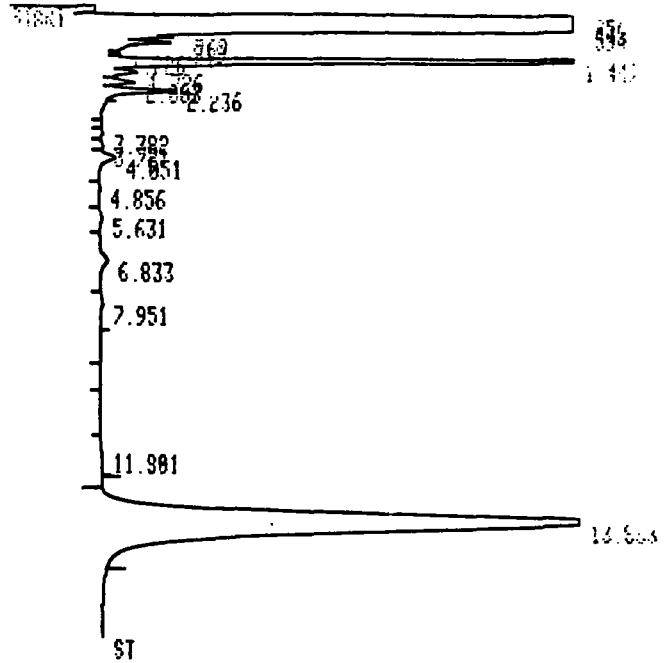
CASE NUMBER 3633
 SAMPLE ID Method blank EB1210
 VOLUME INJECTED 2 ul
 COLUMN MP

3633

RUN # 149 FEB/11/85 18:49:54
 WORKFILE ID: C 5-2-50211-14
 WORKFILE NAME: EB1210 P000
 ID: 5-1-2-84
 Run MP Per.

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.286	1667603	DSBH	0.093	56.407
0.520	186533	DTBB	0.070	6.310
0.712	940209	DSHB	0.095	31.893
0.929	3855	DTBP	0.058	0.130
1.053	6121	DTPP	0.093	0.207
1.714	996	DTPV	0.105	0.034
2.044	88508	TVV	0.127	2.994
2.424	3578	DTVY	0.143	0.121
2.903	793	TPV	0.167	0.027
3.285	9891	TVV	0.200	0.335
4.641	3962	TPV	0.319	0.134
5.930	6702	TVP	0.284	0.227
17.458	710	BB	0.870	0.024
21.347	2952	BY	1.091	0.100
23.614	33975	VB	1.158	1.149

TOTAL HGHT= 2956400
 MUL FACTOR= 1.0000E+00



CASE NUMBER 3633
 SAMPLE ID Method blank EB1210
 VOLUME INJECTED 2ul
 COLUMN SP

3637

RUN # 385 FEB/17/85 19:25:10
 ID 1-1-1-85 8-1-50217-07 2ul
 EB1210010 1L
 Run SP Part.

RT	HEIGHT%	HEIGHT	TYPE	AR/HT	HEIGHT%
0.256	2223909	SPH	0.124	29.469	
0.445	1473787	DSHH	0.138	19.523	
0.594	2148263	DSHH	0.101	28.457	
0.769	15619	DTBP	0.060	0.207	
0.919	36065	OTPB	0.072	0.478	
1.447	1019780	SHB	0.143	13.509	
1.726	17394	DTBP	0.104	0.230	
2.003	22308	TPV	0.112	0.296	
2.236	65242	TVB	0.131	0.264	
3.382	2191	TVV	0.177	0.029	
3.721	3063	TVV	0.195	0.041	
4.051	15884	TVP	0.230	0.210	
4.856	1205	TPV	0.241	0.016	
5.631	1988	TVP	0.337	0.026	
6.833	7484	TPV	0.386	0.099	
7.951	1970	TVP	0.391	0.026	
11.801	625	TPB	0.569	0.038	
13.863	492300	BB	0.589	6.521	

TOTAL HGHT= 7549200
 MUL FACTOR= 1.0000E+00

Sample Number

Method B112

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NP

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Sample Number
Method BIK2

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: ~~_____~~

Date Analyzed: ~~_____~~ *NR*

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

_____ or _____
 V_s _____ or W_s _____ V_t _____ V_i _____

Sample Number
Method BIK 2

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	<i>No volatile compounds detected</i>			
2.				
3.				
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26.				
27.				
28.				
29.				
30.				

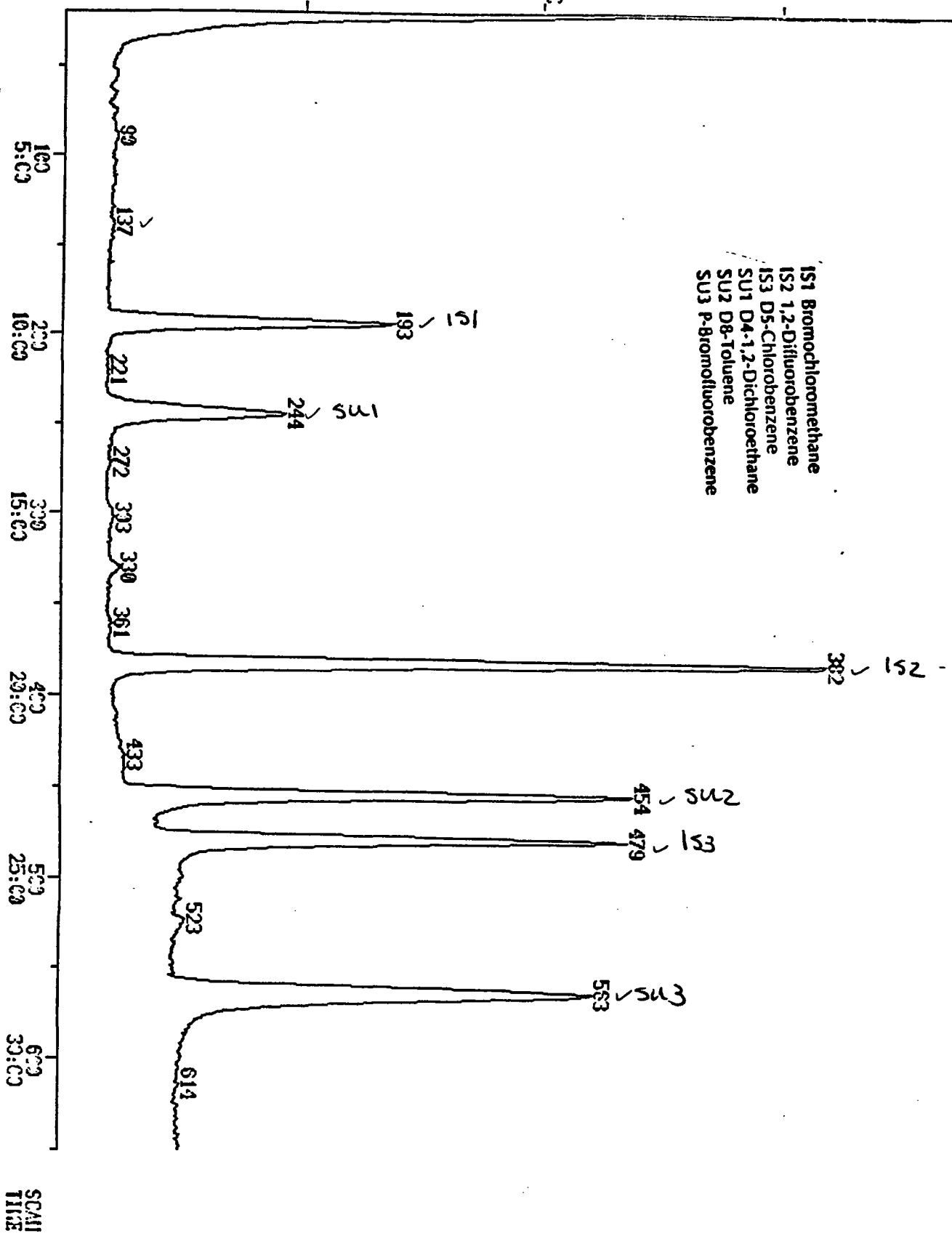
12/14/84 7:16:03
SAMPLE: F4.D.BK.C0003.C0.V.NA.NA.HAS
RANGE: 6 1. 650 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3

CALL: FICAL #1

292352.

0447

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



RIC

10:00 5:00
20:00 10:00
30:00 15:00
40:00 20:00
50:00 25:00
60:00 30:00
SCALE TIME

DATA: 4EB1214V000.T1

12/14/84 7:16:00

SAMPLE: F4,D,BLK,00000,00,V,NA:NA,NA\$

SUBMITTED BY: EPA ANALYST: BWS

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

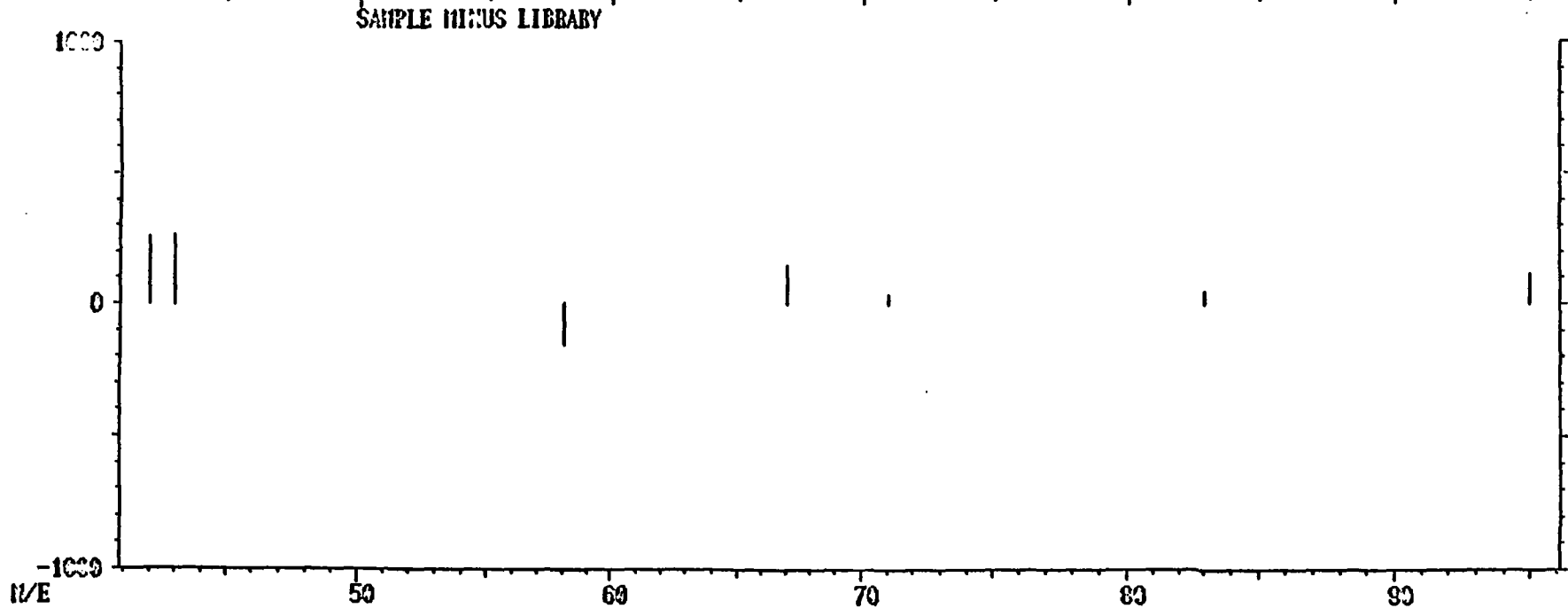
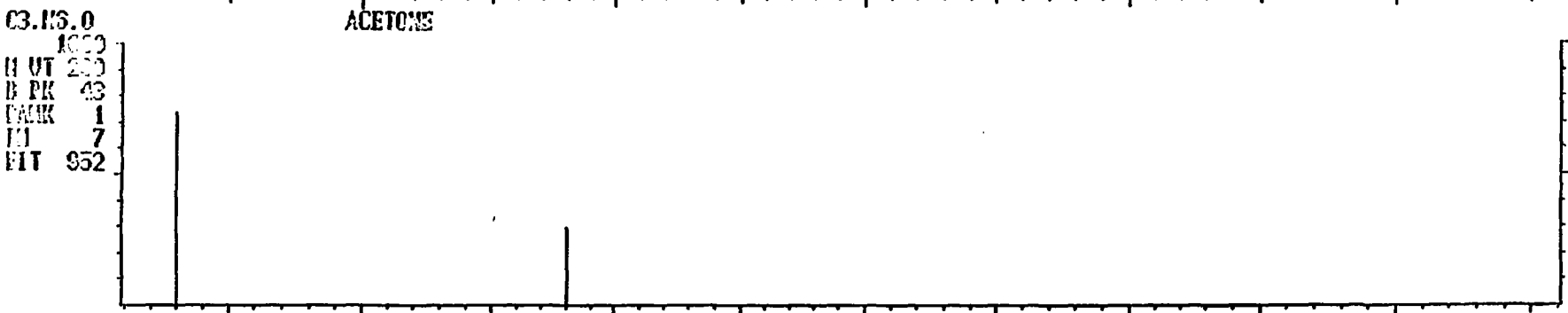
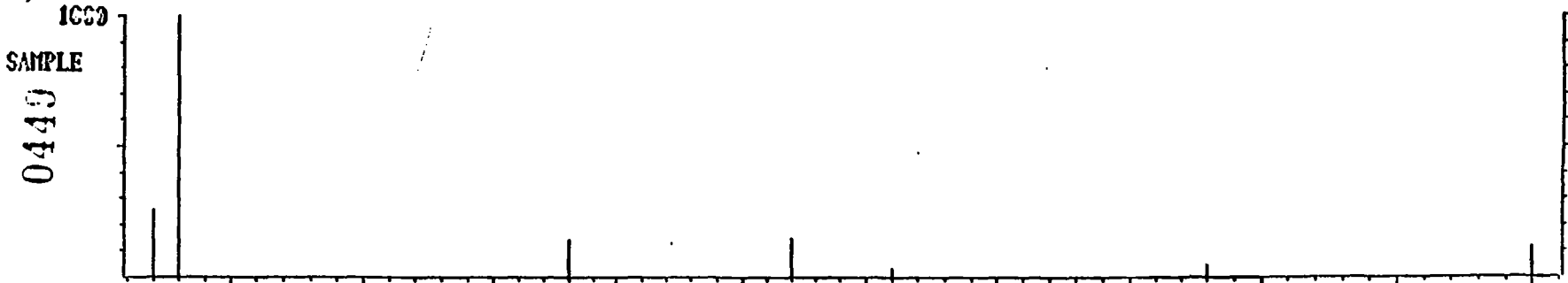
NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-DS
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	ACETONE
8	2-BUTANONE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	193	9:39	1	1.000	A BB	76922.	50.000 UG/L	11.05
2	67	244	12:12	1	1.264	A B3	95306.	56.501 %	21.42
3	114	382	19:05	3	1.030	A BB	484667.	50.000 UG/L	11.05
4	117	479	23:57	4	1.030	A B3	284909.	50.000 UG/L	11.05
5	98	455	22:45	4	0.950	A B3	396598.	99.458 %	21.99
6	95	563	23:09	4	1.175	A?B3	254788.	90.770 %	20.06
7	43	137	6:51	1	0.710	A?B3	8111.	6.323 UG/L	1.40
8	43	241	12:03	3	0.631	A?B3	23067.	8.937 UG/L	1.98

12/14/84 7:16:00 + 6:51
SAMPLE: F4.D.BLK.CCCC9.CO.V.NA:NA.NAS
ENHANCED (S 15B 2N 0T)

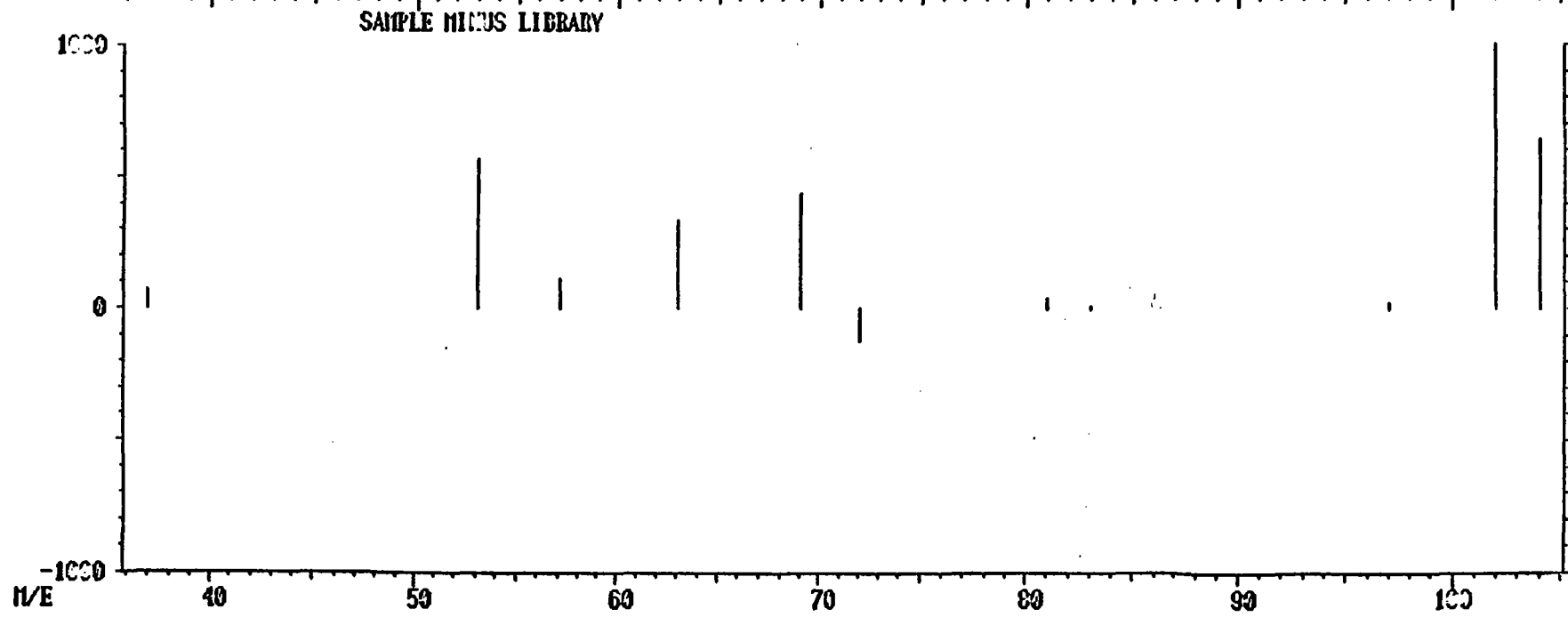
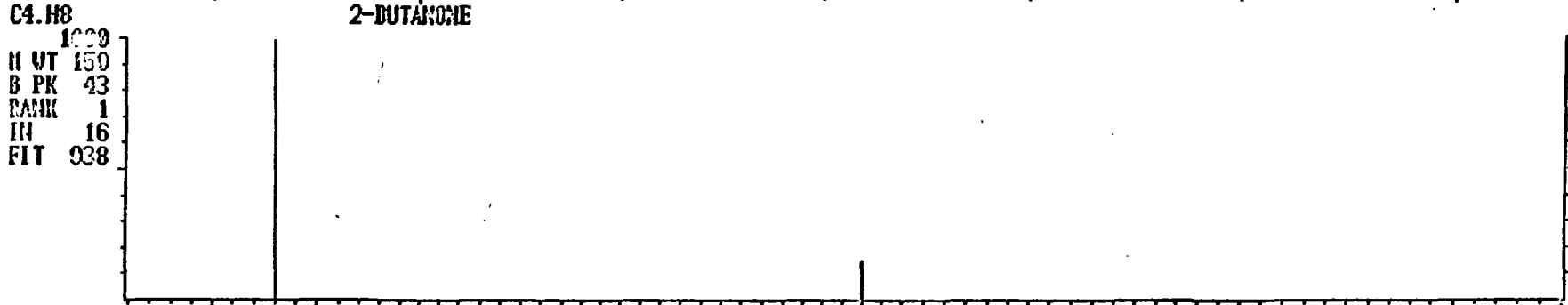
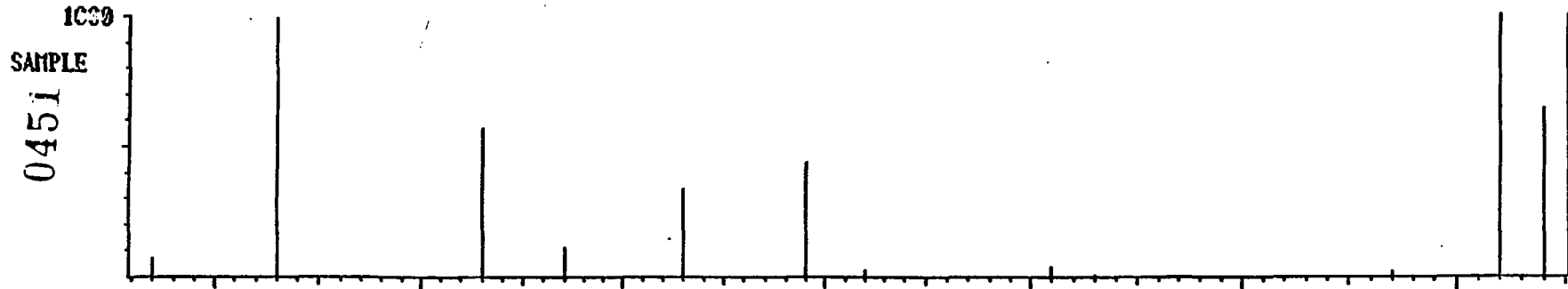
CALI: F4CAL 0 1

RIC: 618.



LIBRARY SEARCH
12/14/84 7:16:03 + 12:03
SAMPLE: F4.D.BLK.CCCO.CO.V.HA:HA.NAS
ENHANCED (S 15B 2H 0T)

CALI: F4CAL 0 1
RIC: 6663.

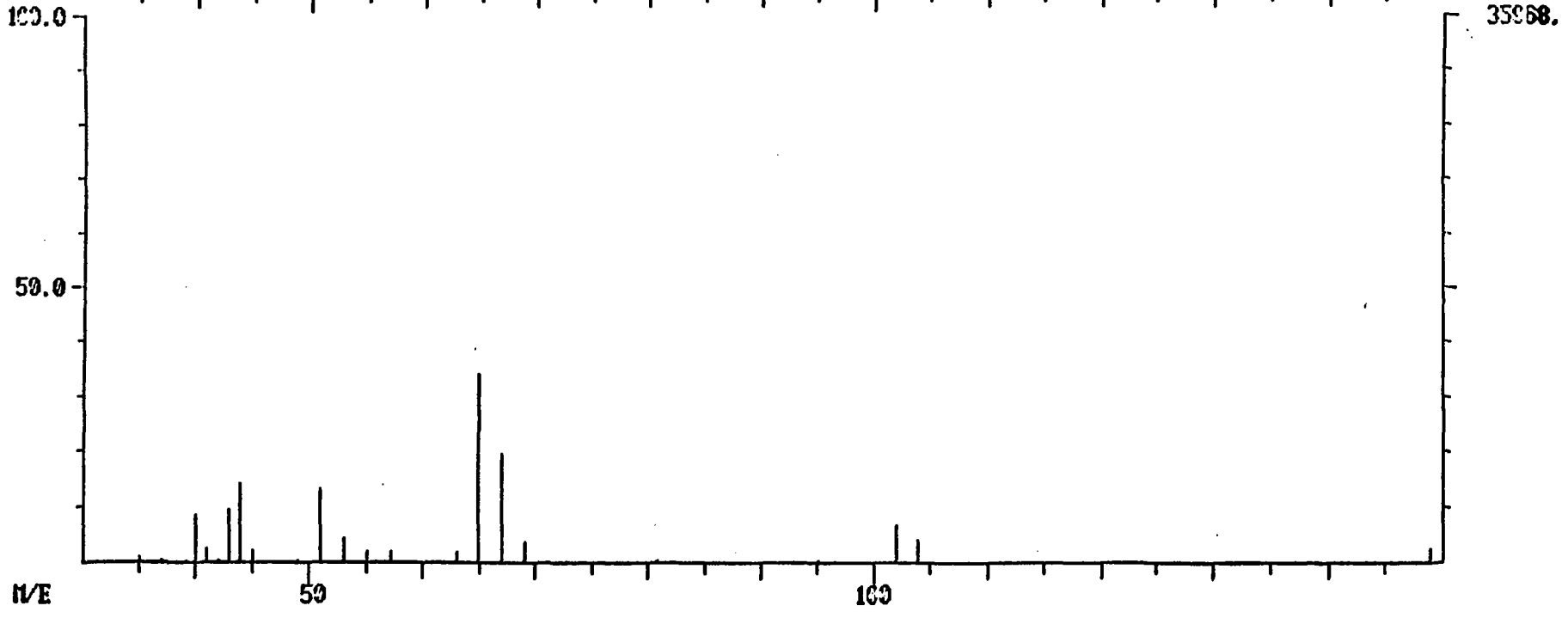
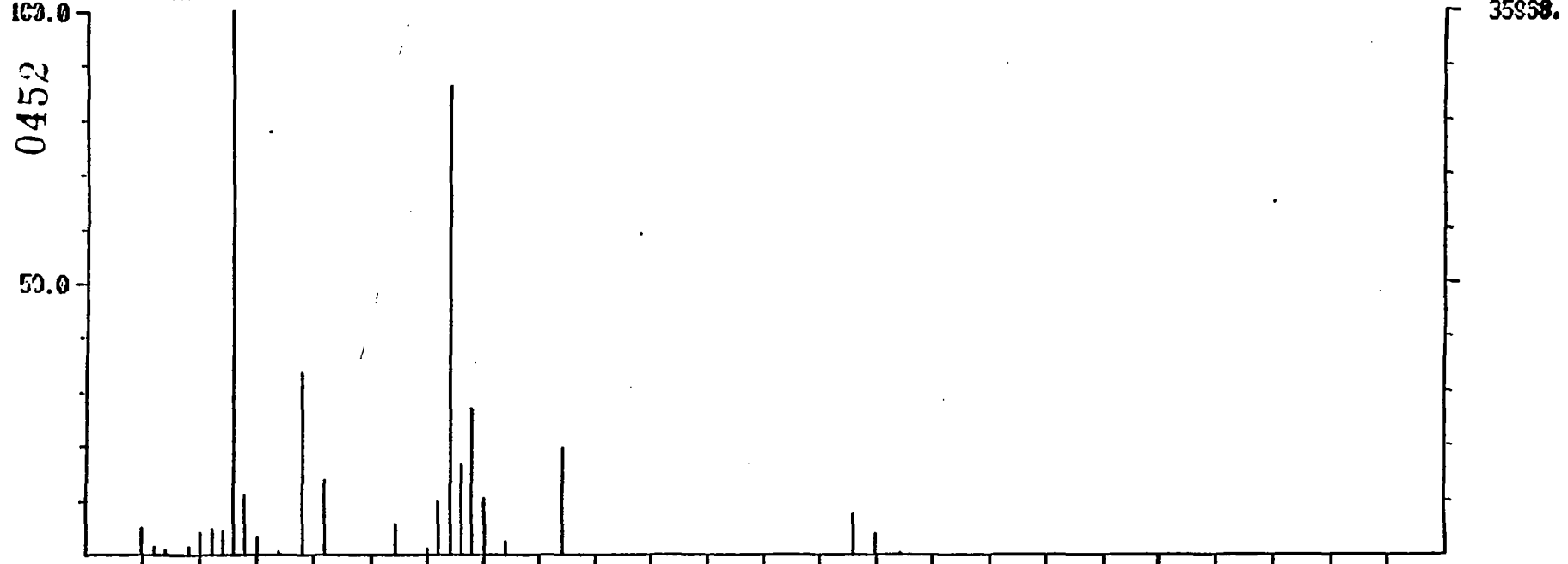


10/15/84 6:32:00 + 10:48
SAMPLE: F4.D.VEB.C01C0.C0.V.MA:NA.MAS
DATA: 4EB1214VCC0 0241

CALI: F4CAL 01

RIC: 135679.7 47423.

SECOND SPECTRUM



m/z 50 100

Sample Number
Method Blank 3

CV83 0453

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian

Case No: 3633

Lab Sample ID No: 4EB1217V000

QC Report No: 40

Sample Matrix: Water

Contract No: 68-01-6853

Data Release Authorized By: Lafetkova

Date Sample Received: _____

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: 12-17-84

Conc/Dil Factor: N/A/N/A pH _____

Percent Moisture: 100%

Percent Moisture (Decanted): _____

Method Blank 3
 LAB 8/1/84

CAS-Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	43
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	5u
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10J
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	5u
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	5u
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	5u
108-90-7	Chlorobenzene	5u
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than or equal to 10% of the detection limit.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number
Method Blank 3Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	10u
62-53-3	Aniline	5u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	10u
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	20u
100-51-6	Benzyl Alcohol	20u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	5u
39638-32-9	bis(2-chloroisopropyl)Ether	20u
106-44-5	4-Methylphenol	5u
621-64-7	N-Nitroso-Di-n-Propylamine	10u
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	20u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	100u
111-91-1	bis(2-Chloroethoxy)Methane	20u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	10u
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	50u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	10u
91-57-6	2-Methylnaphthalene	20u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	100u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	100u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	10u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50u
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	20u
606-20-2	2, 6-Dinitrotoluene	20u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	100u
534-52-1	4, 6-Dinitro-2-Methylphenol	20u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	10u
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	10u
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	40u
129-00-0	Pyrene	10u
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	5u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	20u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	20u
207-08-9	Benzo(k)Fluoranthene	20u
50-32-8	Benzo(a)Pyrene	20u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20u
53-70-3	Dibenzo(a, h)Anthracene	20u
191-24-2	Benzo(g, h, i)Perylene	20u

(1)-Cannot be separated from diphenylamine

Meth. BIK ③

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul) V_s _____ or W_s _____ V_t _____ V_i _____

0456

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Method BIK 3

Organics Analysis Data Sheet (Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	<i>No volatile compounds detected</i>			
2.				
3.				
4.				
5.				
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27.				
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29.				
30.				

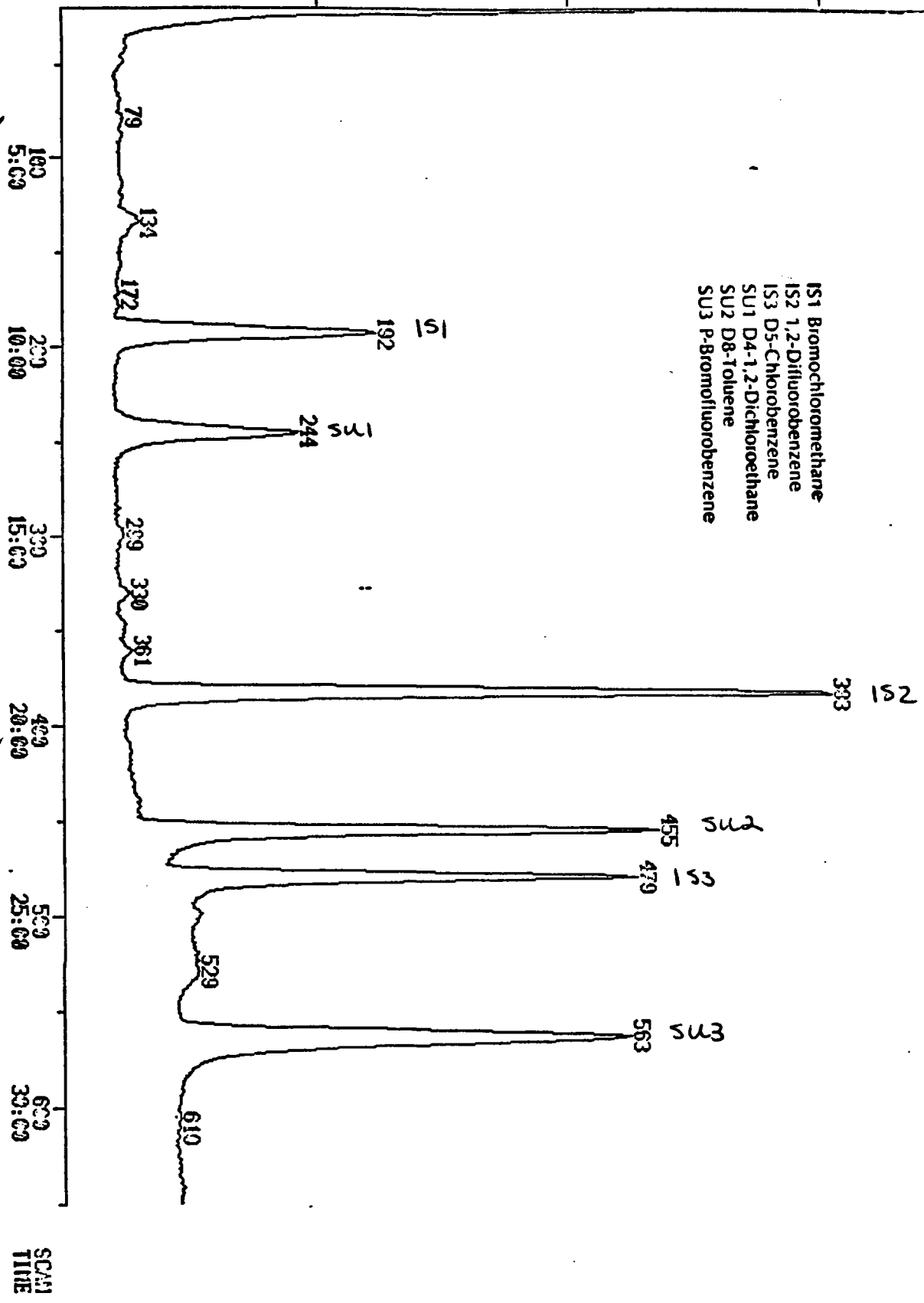
RHC
 12/17/84 7:28:03
 SAMPLE: F4.D.BK.C2320.C9 V.NA:NA.NAS
 RANGE: 0 1. 650 LABEL: N 0. 4.0 QUAN: A 0. 1.0 BASE: U 20. 3
 DATA: 4812/17/84 U1
 CALL: FACAL 01
 SUBNO 20 10 000

0457

100.0

RIC

- IS1 Bromochloromethane
- IS2 1,2-Difluorobenzene
- IS3 D5-Chlorobenzene
- SU1 D4-1,2-Dichloroethane
- SU2 D8-Toluene
- SU3 P-Bromofluorobenzene



203720.

DATA: 4EB1217V000.TI
 12/17/84 7:28:00

SAMPLE: F4,D,BLK,00000,00,V,NA:NA,NA\$
 SUBMITTED BY: EPA ANALYST: BWS

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

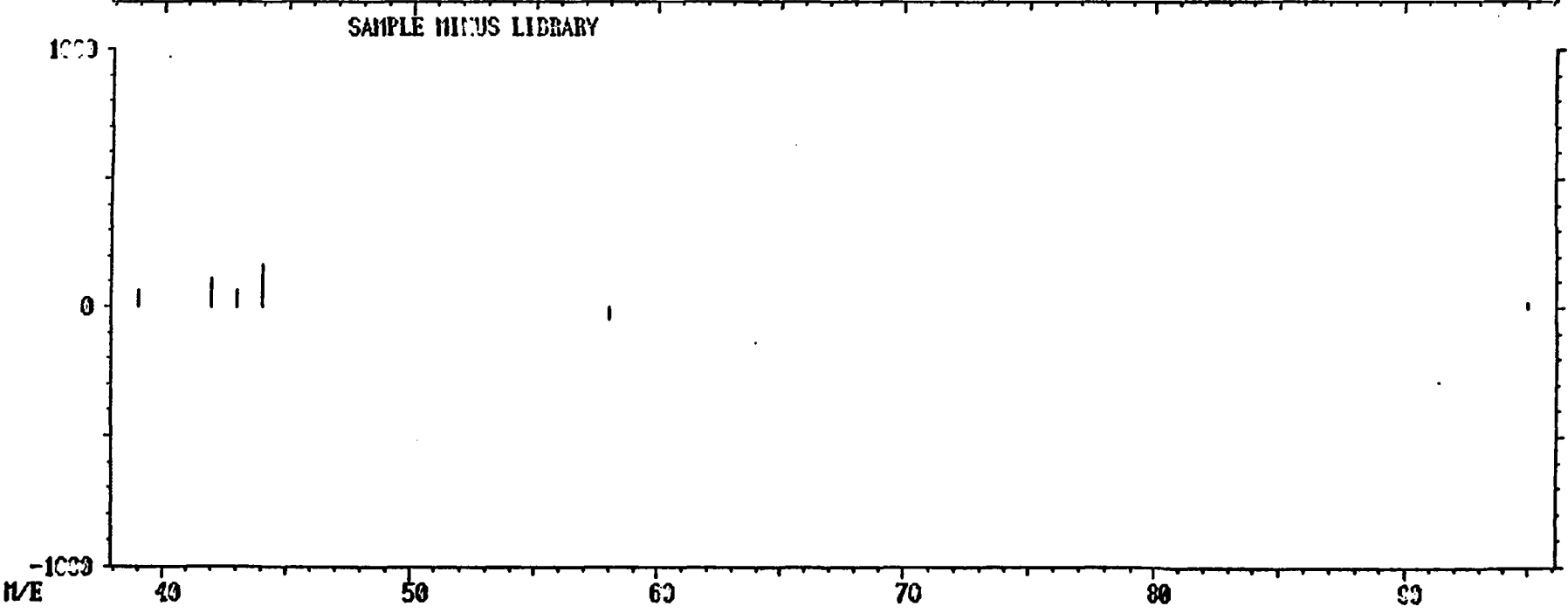
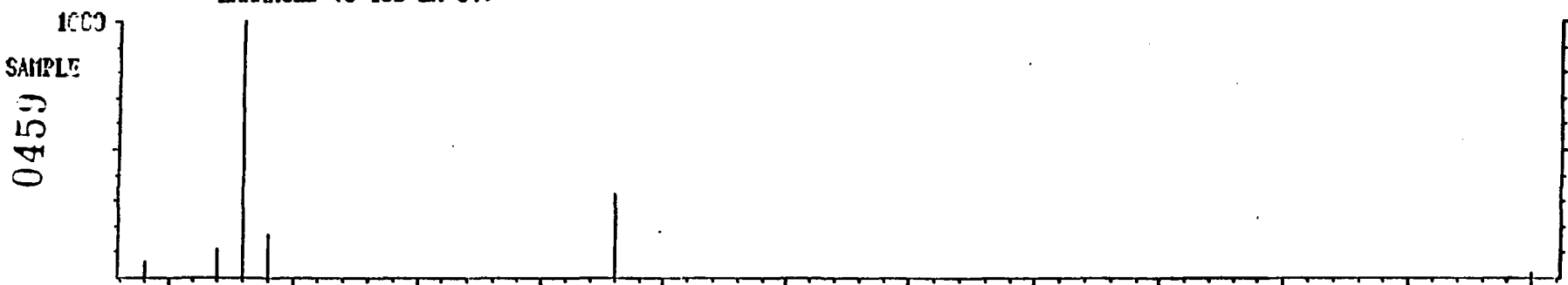
NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	ACETONE
8	2-BUTANONE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	192	9:36	1	1.000	A BB	73206.	50.000 UG/L	10.18
2	67	244	12:12	1	1.271	A BB	94701.	105.410 %	21.45
3	114	383	19:09	3	1.000	A BB	471125.	50.000 UG/L	10.18
4	117	479	23:57	4	1.000	A BB	269427.	50.000 UG/L	10.18
5	98	455	22:45	4	0.950	A BB	375557.	105.250 %	21.43
6	95	563	28:09	4	1.175	A BB	251243.	82.980 %	16.89
7	43	133	6:39	1	0.693	A7BB	47187.	43.126 UG/L	8.78
8	43	254	12:42	3	0.663	A7BB	6784.	4.430 UG/L	0.90

LIBRARY SEARCH
12/17/84 7:28:09 + 6:39
SAMPLE: F4.D.BLK.C3333.C3.V.NA:NA.NAS
ENHANCED (S 15B 2H 0T)

DATA: 481217000 0 133
CALI: F4CAL 0 1

DATE 12/17/84
PIC: 3879.

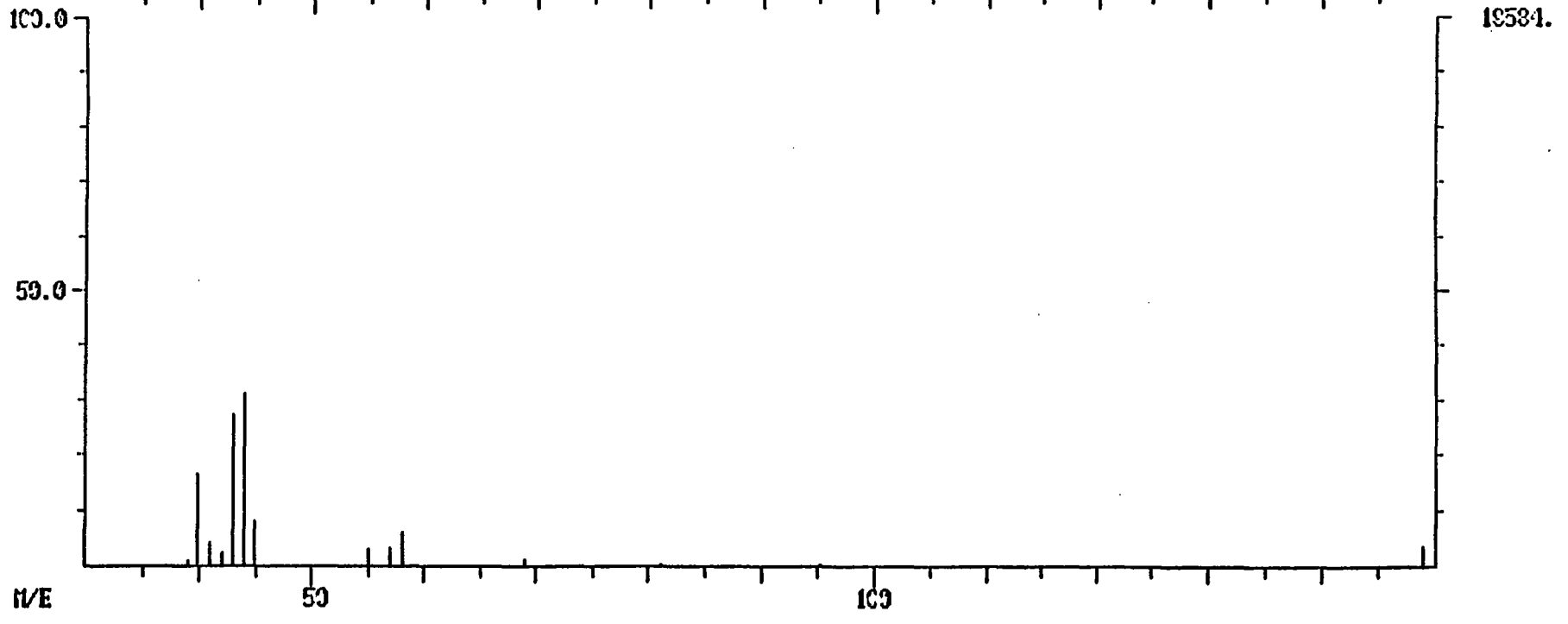
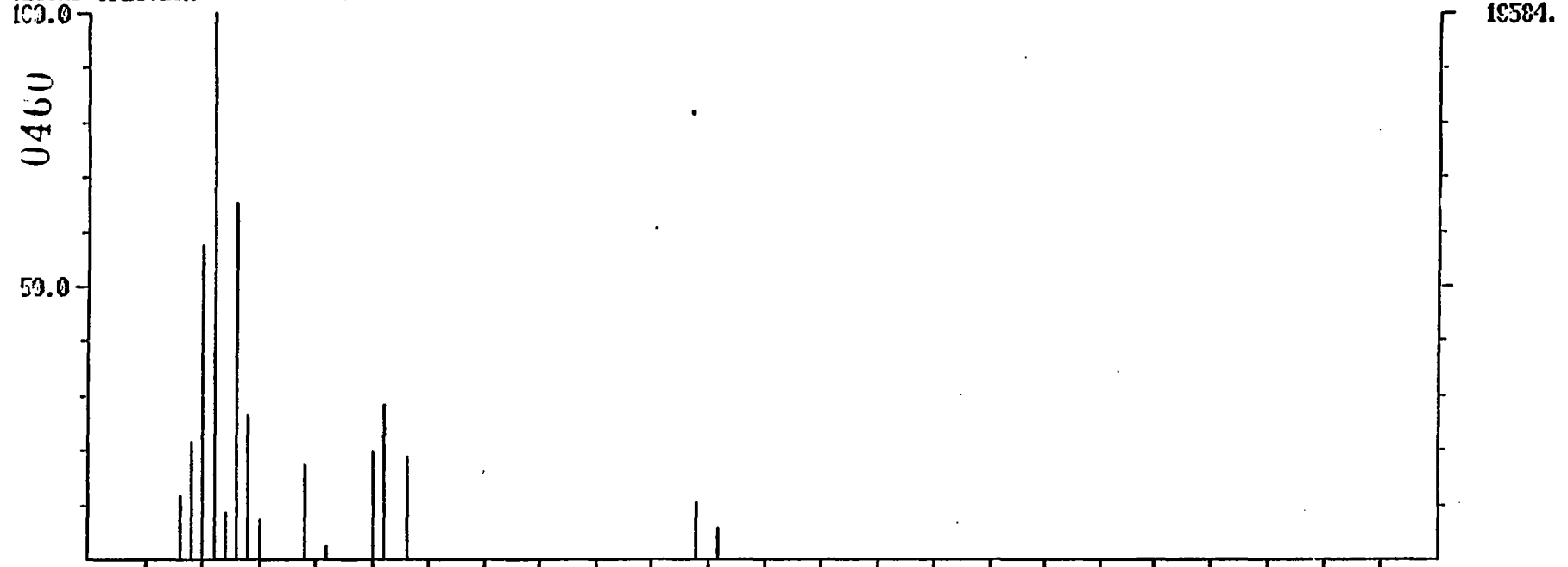


DUAL MASS SPECTRUM
10/15/84 6:32:03 + 5:30
SAMPLE: F4.D.VEB.C91C9.C9.V.NA:NA.NAS
DATA: 4EB1217VC39 0133

DATA: YOSID 0110
CALI: F4CAL 01

BASE 12/E: 71/ 72
BIC: 78847./ 21183.

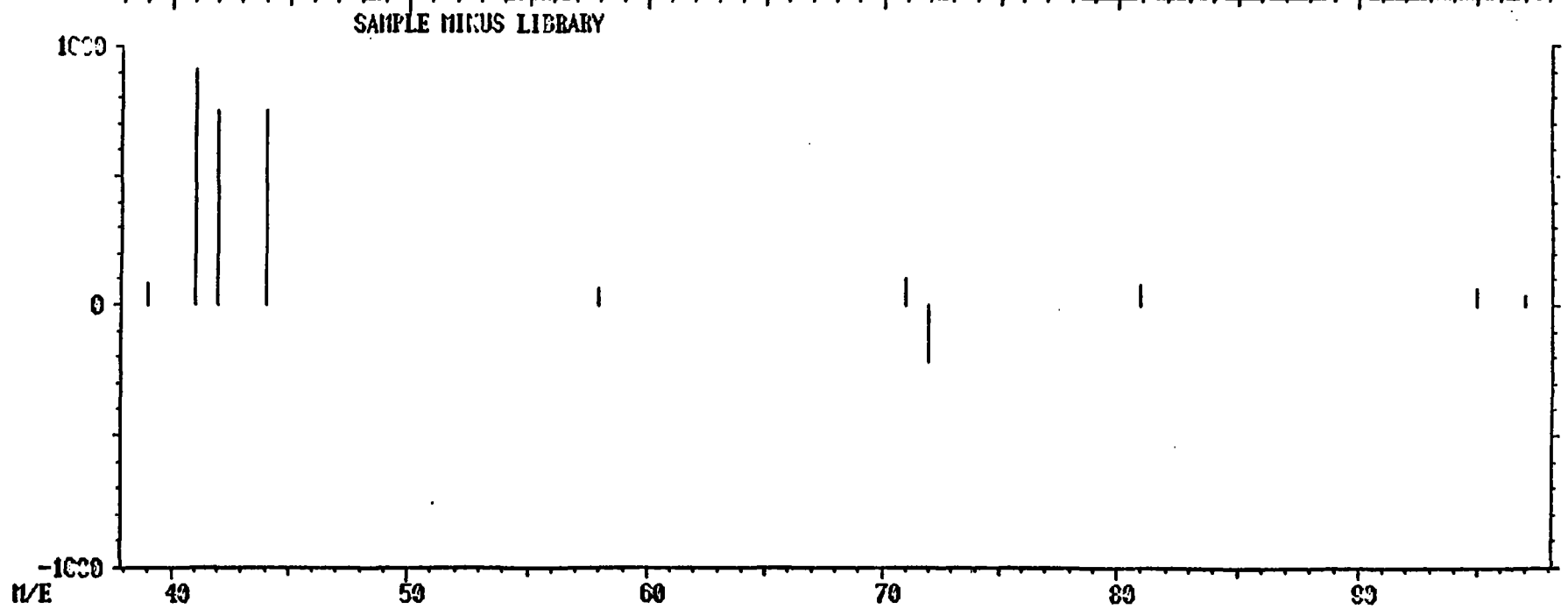
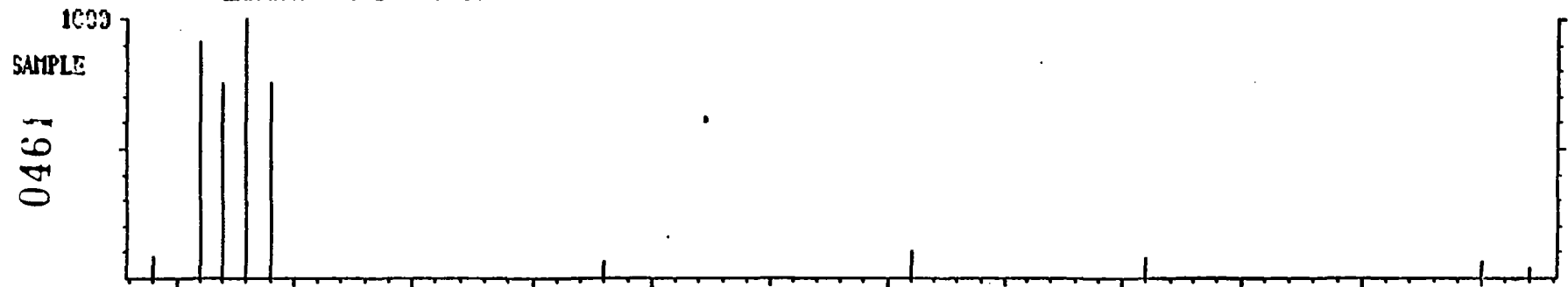
SECOND SPECTRUM



LIBRARY SEARCH
12/17/84 7:28:00 + 12:42
SAMPLE: F4.D.BLK.00009.00.V.NA.NA.NAS
ENHANCED (S 15B 2H 0T)

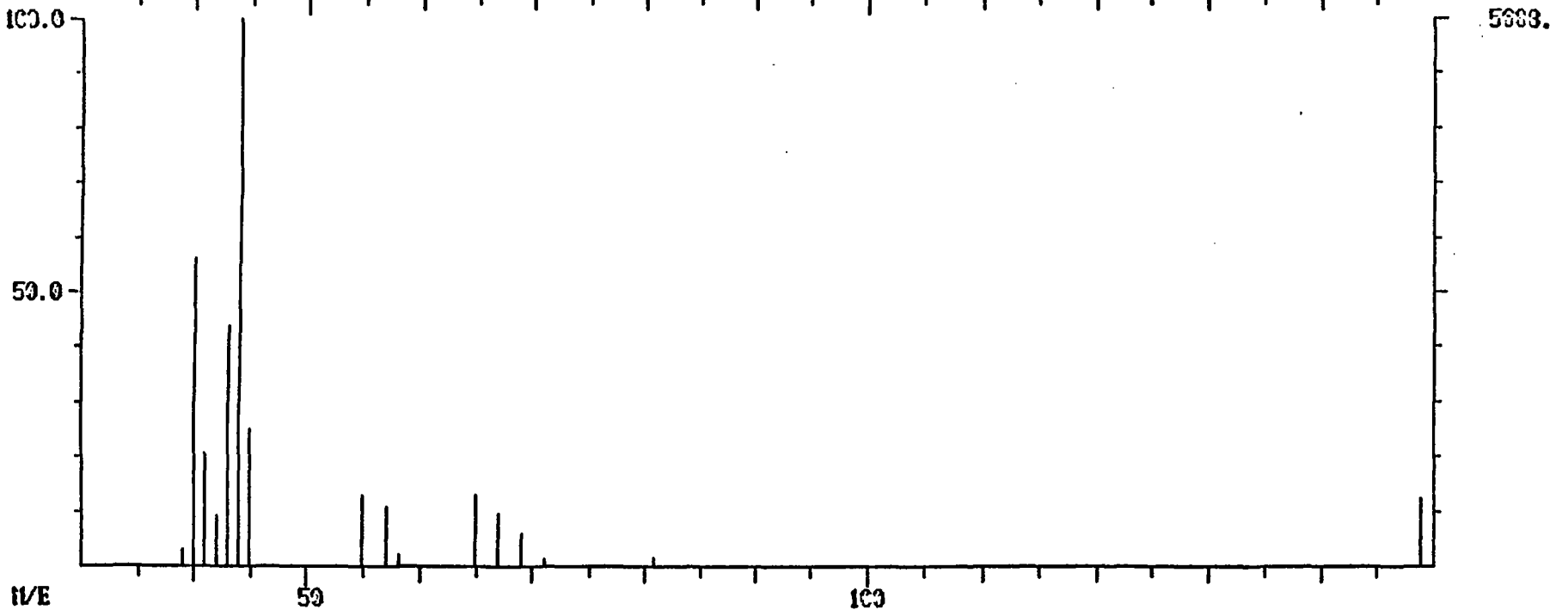
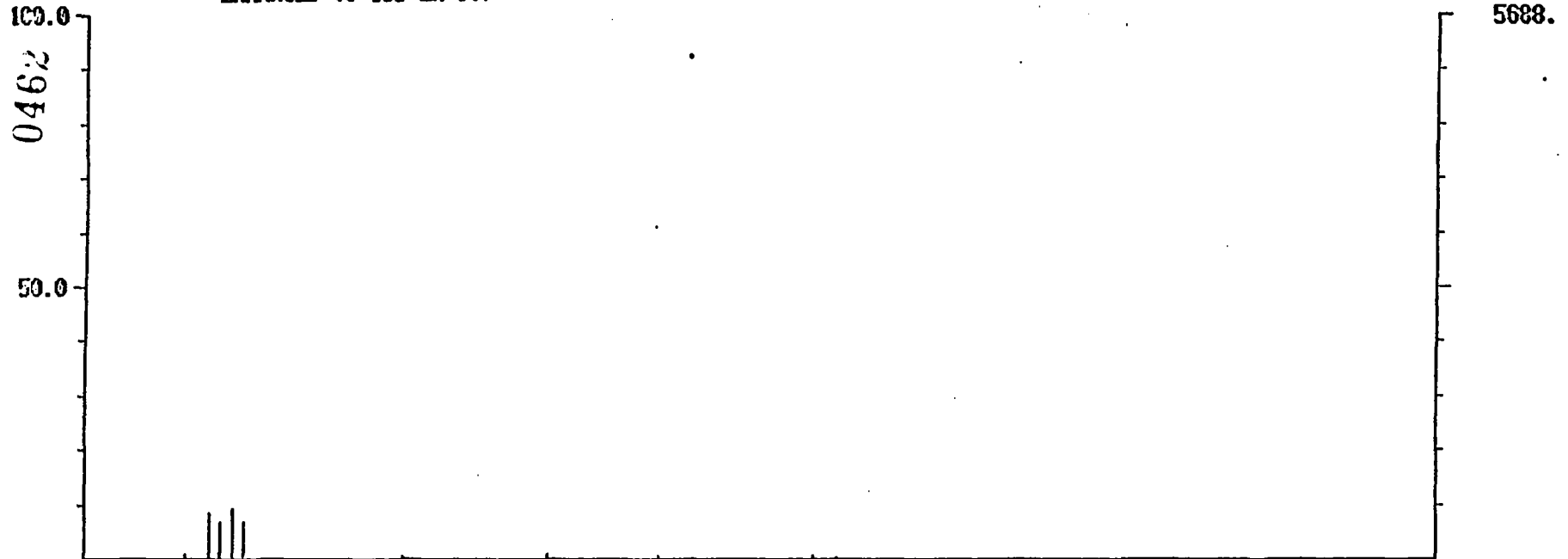
DATE: FEB 12 1985 11:00 AM
CALI: F4CAL 8 1

DATE TIME: 95
EIC: 2009.



DUAL MASS SPECTRUM
12/17/84 7:28:09 + 12:42
SAMPLE: F4.D.BLK.C0000.C0.V.NA:NA.NAS
ENHANCED (S 15B 2H 0T)

DATA: F4D12171000 M207 PROE 1V.01
CALI: F4CAL 01 RIC: 2009.7 10055.



Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pvrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

0465

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB170MS

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul)

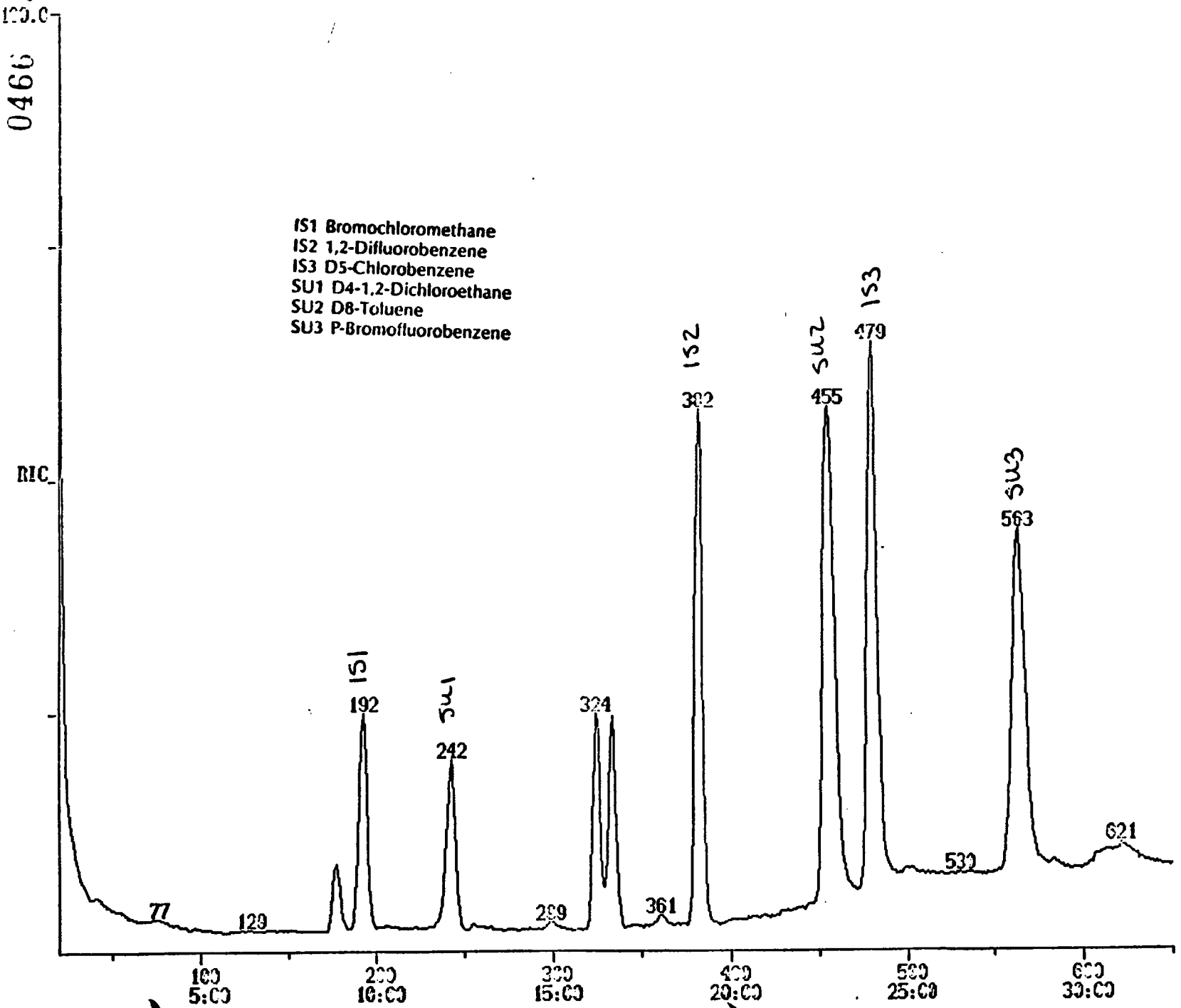
V_s _____ or W_s _____ V_i _____ V_t _____

RIC
12/17/84 15:53:00
SAMPLE: F4.D.EPA.AB170 MS.CO.1:1.NAS
RANGE: G 1.650 LABEL: H 0.4.0 QUAN: A 0.1.0 BASE: U 20. 3

DATA: 45M12001700 01
CALI: F4CAL 01

SCANS 20 10 00

829039.



DATA: 4EQ12051V06.T1
 12/17/84 15:53:00
 SAMPLE: F4,D,EPA,AB170 MS,00,1:1,NA\$
 SUBMITTED BY: EPA ANALYST: MM

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

- NO NAME
- 1 (IS1) 74-97-5 BROMOCHLOROMETHANE
- 2 (SU1) SURROGATE D4-1,2-DICHLOROETHANE
- 3 (IS2) DIFLUOROBENZENE-1,2
- 4 (IS3) CHLOROBENZENE-D5
- 5 (SU2) SURROGATE TOLUENE-D8
- 6 (SU3) SURROGATE P-BROMOFLUOROBENZENE
- 7 1,1-DICHLOROETHENE
- 8 2-BUTANONE
- 9 TRICHLOROETHENE
- 10 BENZENE
- 11 TOLUENE
- 12 CHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	192	9:36	1	1.000	A BB	66444.	50.000 UG/L	6.94
2	67	242	12:06	1	1.260	A BB	83623.	97.495 %	13.54
3	114	382	19:06	3	1.000	A BB	427205.	50.000 UG/L	6.94
4	117	478	23:54	4	1.000	A BB	308388.	50.000 UG/L	6.94
5	98	454	22:42	4	0.950	A BB	399341.	92.004 %	12.77
6	95	552	20:03	4	1.176	A7BB	271479.	92.003 %	12.79
7	96	177	8:51	1	0.922	A BB	32427.	19.644 UG/L	2.73
8	43	239	11:57	3	0.626	A BB	23567.	155.291 UG/L	21.56
9	130	324	16:12	3	0.849	A BB	76311.	29.473 UG/L	4.09
10	78	333	16:39	3	0.872	A BB	196054.	27.124 UG/L	3.77
11	92	458	22:54	4	0.958	A BB	129333.	26.964 UG/L	3.74
12	112	481	24:03	4	1.006	A BB	168146.	30.210 UG/L	4.19

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
 Lab Sample ID No: 4ED12051V06
 Sample Matrix: Water
 Data Release Authorized By: F. Peterson

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: —

Date Analyzed: 12-17-84

Conc/Dil Factor: 1:1 pH —

Percent Moisture: 100%

Percent Moisture (Decanted): —

CAS-Number (u) or ug/Kg (Circle One)

CAS Number (u) or ug/Kg (Circle One)

74-87-3	Chloromethane	10u
74-83-9	Bromomethane	10u
75-01-4	Vinyl Chloride	10u
75-00-3	Chloroethane	10u
75-09-2	Methylene Chloride	5u
67-64-1	Acetone	10u
75-15-0	Carbon Disulfide	5u
75-35-4	1, 1-Dichloroethene	19
75-34-3	1, 1-Dichloroethane	5u
156-60-5	Trans-1, 2-Dichloroethene	5u
67-66-3	Chloroform	5u
107-06-2	1, 2-Dichloroethane	5u
78-93-3	2-Butanone	10u
71-55-6	1, 1, 1-Trichloroethane	5u
56-23-5	Carbon Tetrachloride	5u
108-05-4	Vinyl Acetate	10u
75-27-4	Bromodichloromethane	5u

79-34-5	1, 1, 2, 2-Tetrachloroethane	5u
78-87-5	1, 2-Dichloropropane	5u
10061-02-6	Trans-1, 3-Dichloropropene	5u
79-01-6	Trichloroethene	25
124-48-1	Dibromochloromethane	5u
79-00-5	1, 1, 2-Trichloroethane	5u
71-43-2	Benzene	27
10061-01-5	cis-1, 3-Dichloropropene	5u
110-75-8	2-Chloroethylvinylether	10u
75-25-2	Bromoform	5u
591-78-6	2-Hexanone	10u
108-10-1	4-Methyl-2-Pentanone	10u
127-18-4	Tetrachloroethene	5u
108-88-3	Toluene	30
108-90-7	Chlorobenzene	27
100-41-4	Ethylbenzene	5u
100-42-5	Styrene	5u
	Total Xylenes	5u

MSD
LABORATORY

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than the minimum detection limit (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Sample Number
AB 170 MSDOrganics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: NR

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzdine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Sample Number
AB170MSD

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

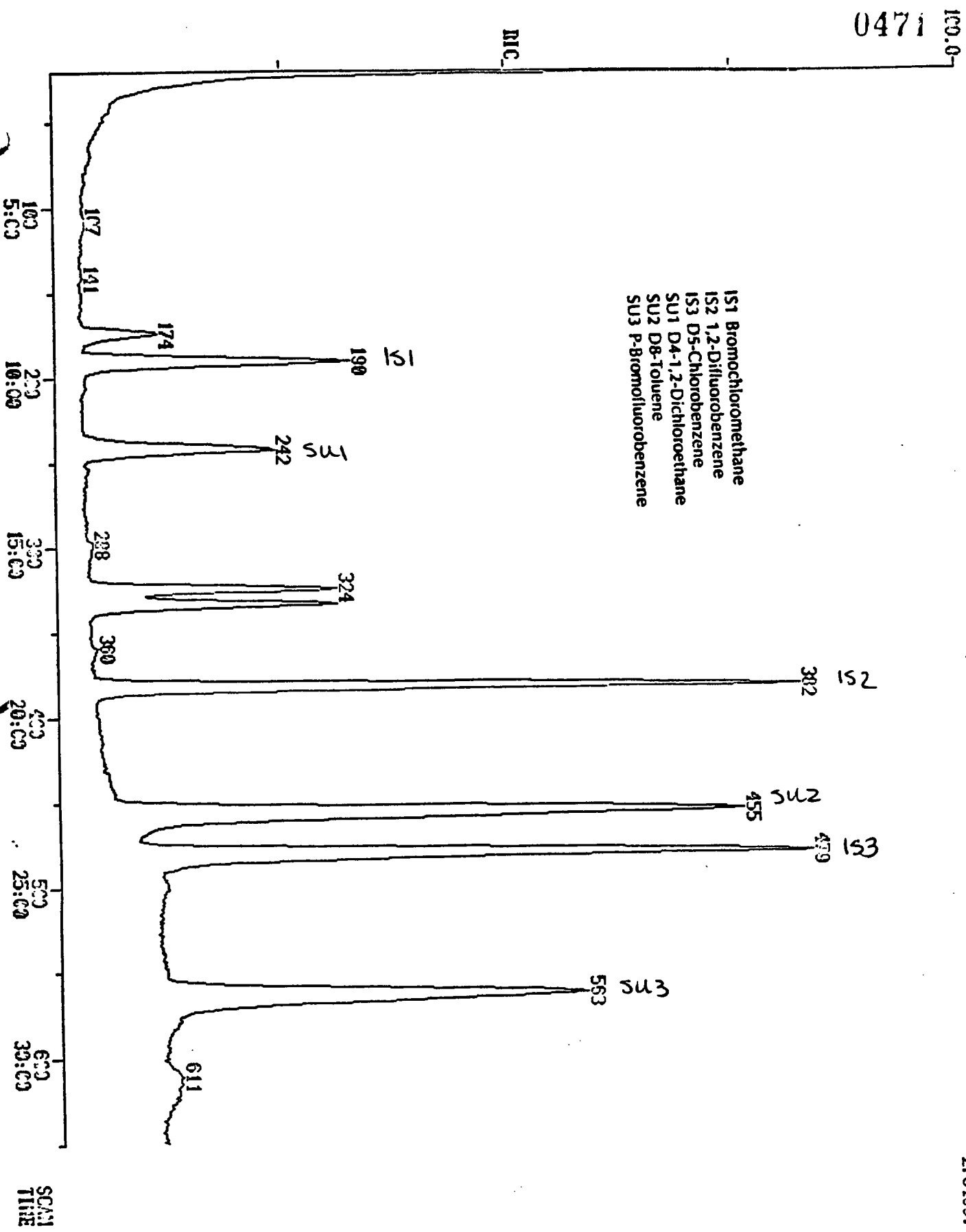
V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

MIC 12/17/84 14:34:00
 SAMPLE: F4.D.EPA.AB179.KSD.09.1:1.HAS
 RANGE: 6 1. 650 LABEL: N 0. 4.0 QUANT: A 0. 1.0 BASE: U 29. 3

DATA: 4811203100 01
 CALL: FACAL 01

270490.



DATA: 4ED12051V06.TI

12/17/84 14:34:00

SAMPLE: F4.D,EPA,AB170 MSD,00,1:1,NA\$

SUBMITTED BY: EPA ANALYST: MM

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

NO	NAME
1	(IS1) 74-97-5 BROMOCHLOROMETHANE
2	(SU1) SURROGATE D4-1,2-DICHLOROETHANE
3	(IS2) DIFLUOROBENZENE-1,2
4	(IS3) CHLOROBENZENE-D5
5	(SU2) SURROGATE TOLUENE-D8
6	(SU3) SURROGATE P-BROMOFLUOROBENZENE
7	1,1-DICHLOROETHENE
8	BENZENE
9	TOLUENE
10	CHLOROBENZENE
11	TRICHLOROETHENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	190	9:30	1	1.000	A BB	66969.	50.000 UG/L	8.85
2	67	242	12:06	1	1.274	A BB	83222.	96.267 %	17.04
3	114	392	19:06	3	1.000	A BB	440684.	50.000 UG/L	8.85
4	117	478	23:54	4	1.000	A BB	264862.	50.000 UG/L	8.85
5	93	454	22:42	4	0.950	A BB	381912.	95.315 %	16.87
6	95	553	20:09	4	1.179	A7B3	259797.	95.315 %	16.87
7	95	174	0:42	1	0.916	A BB	32012.	19.243 UG/L	3.41
8	78	333	16:39	3	0.872	A BB	189145.	25.365 UG/L	4.49
9	92	459	22:54	4	0.958	A BB	118673.	26.783 UG/L	4.74
10	112	491	24:03	4	1.006	A BB	154524.	30.075 UG/L	5.32
11	133	324	16:12	3	0.848	M XX	71309.	26.699 UG/L	4.73

Sample Number
 AB 160MSD

Organics Analysis Data Sheet
 (Page 1)

0473

Laboratory Name: Radiant
 Lab Sample ID No: 8412051-01
 Sample Matrix: Water
 Data Release Authorized By: Zafetrov

Case No: 3633
 QC Report No: 40
 Contract No: 68-C1-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: _____
 Date Analyzed: _____
 Conc/Dil Factor: _____ pH NR
 Percent Moisture: _____
 Percent Moisture (Decanted): _____

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
54-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xlenes	

AB 160
 MSD
 LAB ORGS

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).
- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

0474

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
AB160 MSD

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 12-21-84

Conc/Dil Factor: 1000:1

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	110
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	100
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	51
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	48
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isophorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	37
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	76
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	20
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	71
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	50
206-44-0	Fluoranthene	10u
92-87-5	Benzdine	50u
129-00-0	Pyrene	59
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzo(a)Anthracene	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pvrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pvrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(e, h, i)Pvrene	10u

(1)-Cannot be separated from diphenylamine

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: NR

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

 V_i = Volume of extract injected (ul) V_s = Volume of water extracted (ml) W_s = Weight of sample extracted (g) V_t = Volume of total extract (ul) V_s _____ or W_s _____ V_t _____ V_i _____

ANALYST:

0476

BIC
12/21/84 11:24:00
SAMPLE: AB160-HSD
RANGE: C 1.2550

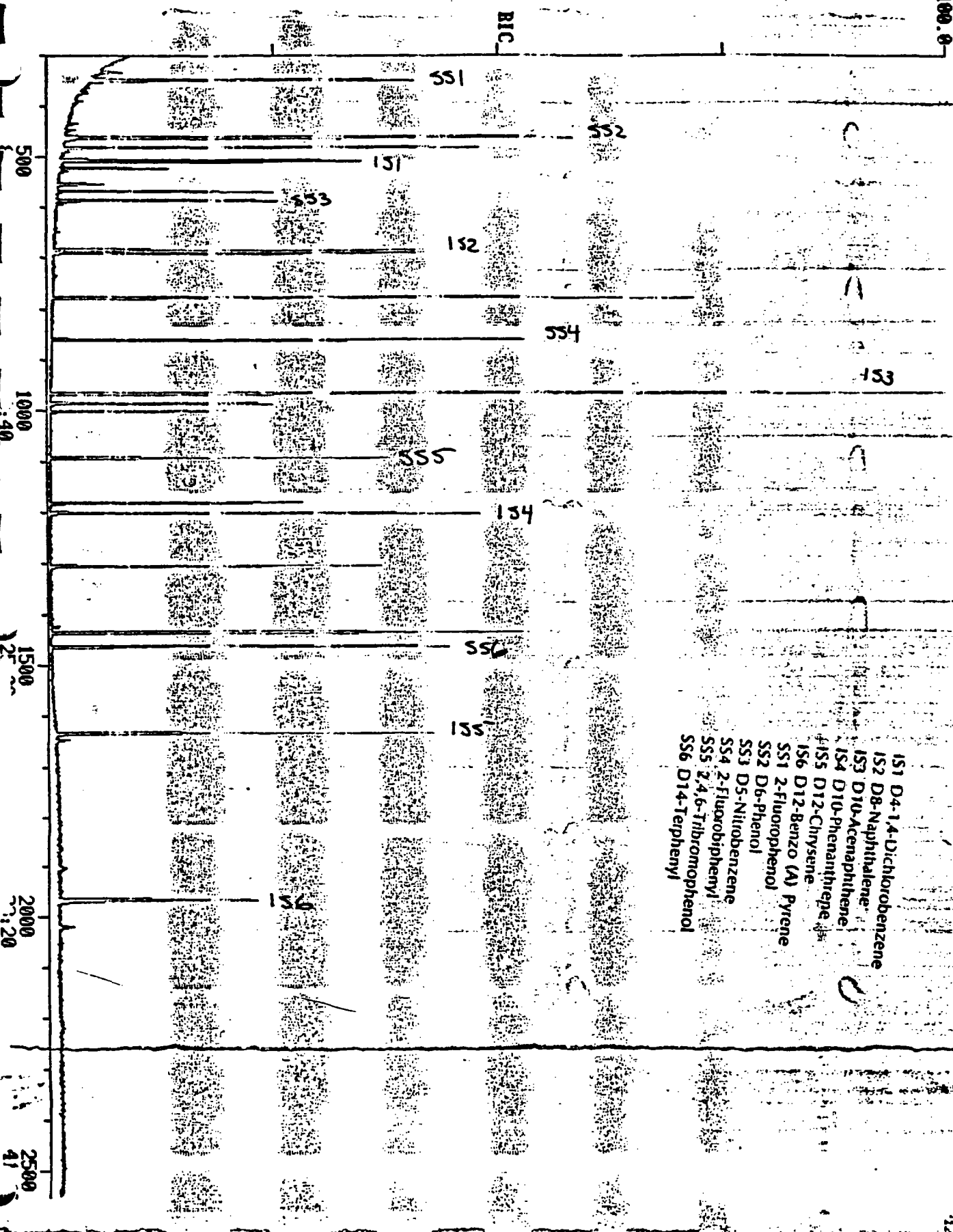
1000-1.12/10/84
LABEL: N 0. 4.0 QUAN: A 0. 1.0

BASE: U 20. 3

DATA: SED12851001 #1
CALL: FZCL #1

SCANS: 300 TO 2550

425091



- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl

SCAN
TIME

DATA: 5ED12051C01.T1

12/21/84 11:24:00

SAMPLE: AB160-MSD

1000:1.1/10/84

SUBMITTED BY: EPA

ANALYST: LK

0477

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

- NO NAME
- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 DB-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 2-CHLOROPHENOL
- 15 1,4-DICHLOROBENZENE
- 16 N-NITROSO-DI-N-PROPYLAMINE
- 17 1,2,4-TRICHLOROBENZENE
- 18 4-CHLORO-3-METHYLPHENOL
- 19 4-NITROPHENOL
- 20 2,4-DINITROTOLUENE
- 21 PENTACHLOROPHENOL
- 22 DI-N-BUTYLPHTHALATE
- 23 PYRENE

NO	M/E	SCAN	TIME	REF	RET	METH	AREA(HGHT)	AMOUNT	UNIT	X FCT
1	152	506	8:26	1	1.030	A?BB	56579.	40.000	UG/ML	2.45
2	136	691	11:31	2	1.000	A BB	195338.	40.000	UG/ML	2.45
3	164	968	16:00	3	1.000	A BB	219215.	40.000	UG/ML	2.45
4	188	1203	20:03	4	1.000	A?BV	177415.	40.000	UG/ML	2.45
5	240	1636	27:16	5	1.000	A BB	172409.	40.000	UG/ML	2.45
6	264	1969	32:49	6	1.000	A BB	156092.	40.000	UG/ML	2.45
7	112	349	5:49	1	0.690	A BB	115945.	194.580	X	11.90
8	99	461	7:41	1	0.911	A?BB	194236.	209.387	X	12.81
9	82	587	9:47	2	0.849	A BB	78457.	70.852	X	4.33
10	172	862	14:22	3	0.890	A BB	176095.	64.137	X	3.92
11	330	1094	18:14	3	1.130	A BB	49699.	88.502	X	5.41
12	244	1464	24:24	5	0.895	A BB	196258.	96.827	X	5.92
13	94	463	7:43	1	0.915	A BB	189788.	112.457	UG/ML	6.38
14	128	482	8:02	1	0.953	A?BB	175653.	100.834	UG/ML	6.17
15	146	509	8:29	1	1.006	A BB	96911.	50.940	UG/ML	3.12
16	130	569	9:29	1	1.125	A BB	14999.	48.250	UG/ML	2.95
17	180	685	11:25	2	0.991	A BB	82933.	37.455	UG/ML	2.29
18	142	779	12:59	2	1.127	A BB	143191.	75.780	UG/ML	4.63
19	65	988	16:29	3	1.021	A BB	39016.	45.123	UG/ML	2.76
20	165	1003	16:43	3	1.036	A BB	51846.	20.250	UG/ML	1.24
21	266	1182	19:42	4	0.903	A BB	40698.	70.836	UG/ML	4.33

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
22	149	1307	21:47	4	1.086	A BB	230959.	49.814 UG/ML	3.95
23	202	1436	23:55	5	0.878	A BB	258624.	59.111 UG/ML	3.62

0478

AB160MS0479

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
 Sample ID No: 8412057-01
 Sample Matrix: Water
 Data Release Authorized By: Zafetkova

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____ pH _____

Percent Moisture: _____

Percent Moisture (Decanted): _____

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

MS
AB04/00

Sample Number
AB160 MS

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 12-21-84

Conc/Dil Factor: 1000:1

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10u
108-95-2	Phenol	106
62-53-3	Aniline	10u
111-44-4	bis(2-Chloroethyl)Ether	10u
95-57-8	2-Chlorophenol	90
541-73-1	1, 3-Dichlorobenzene	10u
106-46-7	1, 4-Dichlorobenzene	50
100-51-6	Benzyl Alcohol	10u
95-50-1	1, 2-Dichlorobenzene	10u
95-48-7	2-Methylphenol	10u
39638-32-9	bis(2-chloroisopropyl)Ether	10u
106-44-5	4-Methylphenol	10u
621-64-7	N-Nitroso-Di-n-Propylamine	47
67-72-1	Hexachloroethane	10u
98-95-3	Nitrobenzene	10u
78-59-1	Isochlorone	10u
88-75-5	2-Nitrophenol	10u
105-67-9	2, 4-Dimethylphenol	10u
65-85-0	Benzoic Acid	50u
111-91-1	bis(2-Chloroethoxy)Methane	10u
120-83-2	2, 4-Dichlorophenol	10u
120-82-1	1, 2, 4-Trichlorobenzene	35
91-20-3	Naphthalene	10u
106-47-8	4-Chloroaniline	10u
87-68-3	Hexachlorobutadiene	10u
59-50-7	4-Chloro-3-Methylphenol	68
91-57-6	2-Methylnaphthalene	10u
77-47-4	Hexachlorocyclopentadiene	10u
88-06-2	2, 4, 6-Trichlorophenol	10u
95-95-4	2, 4, 5-Trichlorophenol	50u
91-58-7	2-Chloronaphthalene	10u
88-74-4	2-Nitroaniline	50u
131-11-3	Dimethyl Phthalate	10u
208-96-8	Acenaphthylene	10u
99-09-2	3-Nitroaniline	50u

CAS Number		<u>ug/l</u> or ug/Kg (Circle One)
83-32-9	Acenaphthene	10u
51-28-5	2, 4-Dinitrophenol	50u
100-02-7	4-Nitrophenol	50J
132-64-9	Dibenzofuran	10u
121-14-2	2, 4-Dinitrotoluene	18
606-20-2	2, 6-Dinitrotoluene	10u
84-66-2	Diethylphthalate	10u
7005-72-3	4-Chlorophenyl-phenylether	10u
86-73-7	Fluorene	10u
100-01-6	4-Nitroaniline	50u
534-52-1	4, 6-Dinitro-2-Methylphenol	50u
86-30-6	N-Nitrosodiphenylamine (1)	10u
101-55-3	4-Bromophenyl-phenylether	10u
118-74-1	Hexachlorobenzene	10u
87-86-5	Pentachlorophenol	50
85-01-8	Phenanthrene	10u
120-12-7	Anthracene	10u
84-74-2	Di-n-Butylphthalate	46
206-44-0	Fluoranthene	10u
92-87-5	Benzidine	50u
129-00-0	Pyrene	55
85-68-7	Butylbenzylphthalate	10u
91-94-1	3, 3'-Dichlorobenzidine	20u
56-55-3	Benzofuran	10u
117-81-7	bis(2-Ethylhexyl)Phthalate	10u
218-01-9	Chrysene	10u
117-84-0	Di-n-Octyl Phthalate	10u
205-99-2	Benzo(b)Fluoranthene	10u
207-08-9	Benzo(k)Fluoranthene	10u
50-32-8	Benzo(a)Pyrene	10u
193-39-5	Indeno(1, 2, 3-cd)Pyrene	10u
53-70-3	Dibenz(a, h)Anthracene	10u
191-24-2	Benzo(g, h, i)Perylene	10u

(1)-Cannot be separated from diphenylamine

Sample Number
AB 160 MS

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____ *NR*

Conc/Dil Factor: _____

CAS Number ug/l or ug/Kg
(Circle One)

319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

RIC
12/21/84 10:39:00
SAMPLE: AB160-HS
RANGE: 6 1.2500

1000:1.12/10/84-DS
LABEL: N 0, 4.0 QUAM: A 0, 1.0

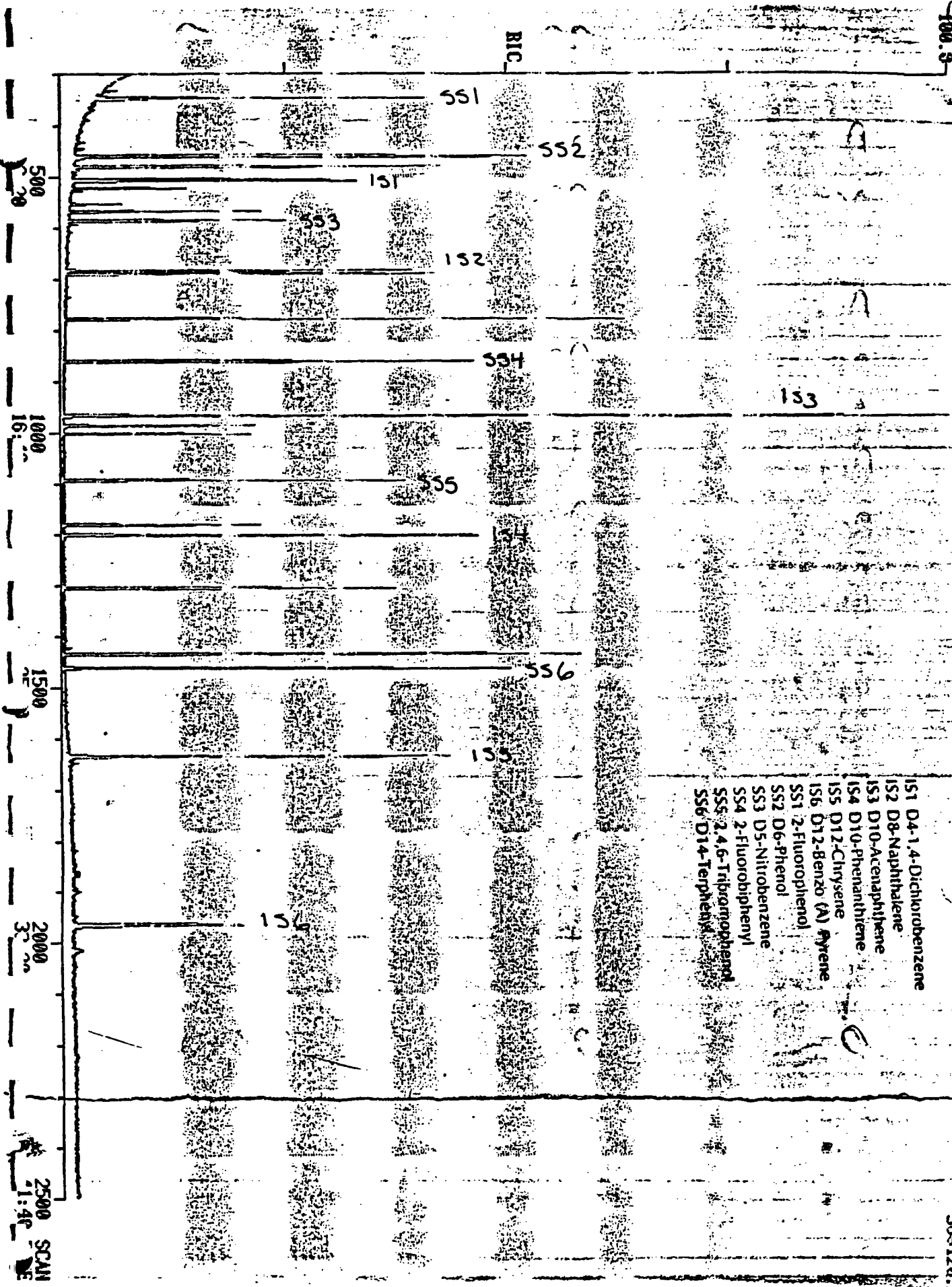
BASE: U 20, 3

DATA: 2E112051091 #1
CALL: FZCAL #1

SCANS 3007 TO 2500

3091287

- IS1 D4-1,4-Dichlorobenzene
- IS2 D8-Naphthalene
- IS3 D10-Acenaphthene
- IS4 D10-Phenanthrene
- IS5 D12-Chrysene
- IS6 D12-Benzo (A) Pyrene
- SS1 2-Fluorophenol
- SS2 D6-Phenol
- SS3 D5-Nitrobenzene
- SS4 2-Fluorobiphenyl
- SS5 2,4,6-Tribromophenol
- SS6 D14-Terphenyl



DATA: 2EM12051C01.T1

12/21/84 10:30:00

SAMPLE: AB160-MS 1000:1.12 10/84-D3

SUBMITTED BY: EPA ANA ST: LK

048

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

- 1 D4-1,4-DICHLOROBENZENE (IS)
- 2 D8-NAPHTHALENE (IS)
- 3 D10-ACENAPHTHENE (IS)
- 4 D10-PHENANTHRENE (IS)
- 5 D12-CHRYSENE (IS)
- 6 D-12 BENZO(A)PYRENE (IS)
- 7 2-FLUOROPHENOL (SS)
- 8 D-6 PHENOL (SS)
- 9 D-5-NITROBENZENE
- 10 2-FLUOROBIPHENYL
- 11 2,4,6-TRIBROMOPHENOL
- 12 D-14 TERPHENYL (SS)
- 13 PHENOL
- 14 2-CHLOROPHENOL
- 15 1,4-DICHLOROBENZENE
- 16 N-NITROSO-DI-N-PROPYLAMINE
- 17 1,2,4-TRICHLOROBENZENE
- 18 4-CHLORO-3-METHYLPHENOL
- 19 4-NITROPHENOL
- 20 2,4-DINITROTOLUENE
- 21 PENTACHLOROPHENOL
- 22 DI-N-BUTYLPHTHALATE
- 23 PYRENE

NO	M/E	SCAN	TIME	REF	RT	METH	AREA(HGHT)	AMOUNT	*DT
1	152	506	8:25	1	1.000	A BB	51421.	40.000 UG/ML	2.54
2	136	691	11:31	2	1.000	A BB	183349.	40.000 UG/ML	2.54
3	164	968	16:00	3	1.000	A BB	213496.	40.000 UG/ML	2.54
4	188	1202	20:02	4	1.000	A7BV	187253.	40.000 UG/ML	2.54
5	240	1635	27:15	5	1.000	A BB	165336.	40.000 UG/ML	2.54
6	264	1968	32:40	6	1.000	A BB	154619.	40.000 UG/ML	2.54
7	112	349	5:40	1	0.600	A BB	118681.	219.150 x	13.91
8	99	461	7:41	1	0.911	A BB	168810.	200.231 x	12.71
9	82	587	9:47	2	0.849	A BB	69688.	67.045 x	4.25
10	172	861	14:21	3	0.800	A BB	165285.	61.817 x	3.92
11	330	1094	18:14	3	1.130	A BB	49767.	90.997 x	5.77
12	244	1463	24:27	5	0.805	A BB	195107.	100.377 x	6.37
13	94	463	7:43	1	0.915	A BB	162568.	105.990 UG/ML	6.73
14	128	482	8:02	1	0.953	A7B5	141753.	89.535 UG/ML	5.69
15	146	508	8:20	1	1.004	A B2	86693.	50.140 UG/ML	3.18
16	130	569	9:29	1	1.105	A B2	13160.	46.580 UG/ML	2.96
17	180	685	11:25	2	0.991	A B2	72673.	34.967 UG/ML	2.22
18	142	779	12:59	2	1.107	A BB	121468.	68.497 UG/ML	4.35
19	65	987	16:27	3	1.000	A B9	26139.	31.040 UG/ML	1.97
20	165	1003	16:47	3	1.005	A BB	45862.	18.401 UG/ML	1.17
21	266	1182	19:40	4	0.900	A B2	30320.	50.000 UG/ML	3.17

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
22	149	1306	21:46	4	1.087	A BB	224373.	45.851 UG/ML	2.91
23	202	1436	23:56	5	0.878	A BB	231968.	55.287 UG/ML	3.51

LAB 162 MS 1

0485

Organics Analysis Data Sheet
 (Page 1)

Laboratory Name: Radian
 Sample ID No: 4EA1205 V03
 Sample Matrix: Water
 Data Release Authorized By: Lafitovich

Case No: 3633
 QC Report No: 40
 Contract No: 68-01-6853
 Date Sample Received: 12-7-84

Volatile Compounds

Concentration: Low Medium (Circle One)
 Date Extracted/Prepared: _____
 Date Analyzed: _____
 Conc/Dil Factor: _____ pH NR
 Percent Moisture: _____
 Percent Moisture (Decanted): _____

CAS Number	Compound	ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number	Compound	ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.



Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB162MS

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____ NP

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenzo(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Sample Number
AB142-MS

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000 ml : 5 ml

CAS Number (ug/l or ug/Kg)
(Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

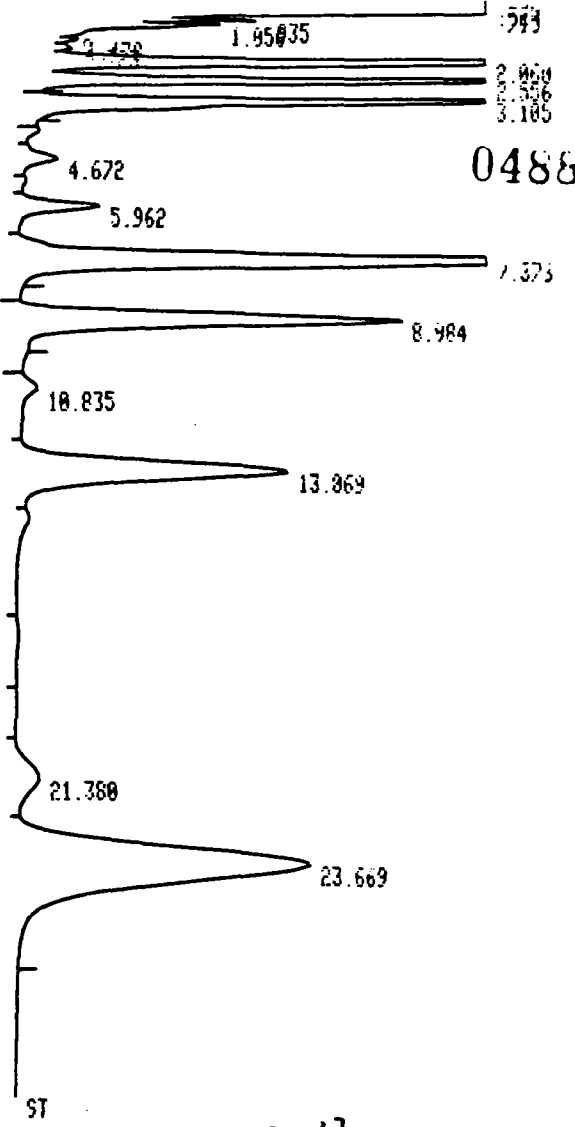
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_i 5000 uL V_t 2 uL

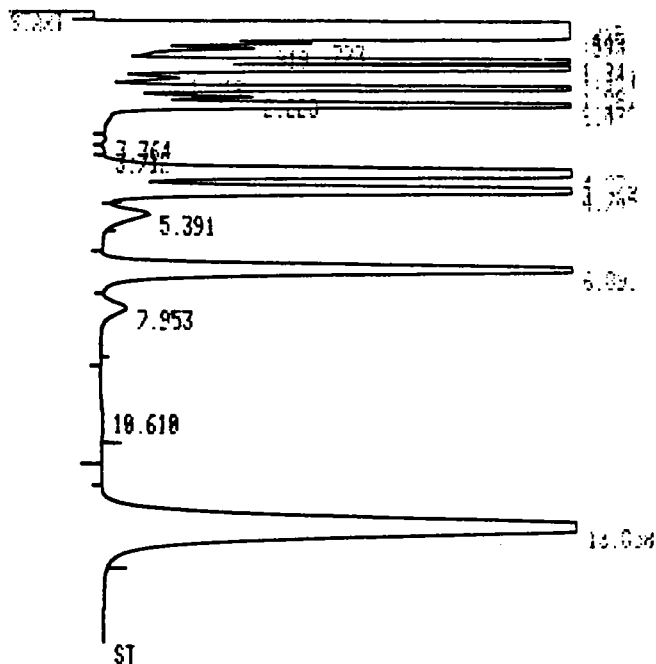


CASE NUMBER 2673
 SAMPLE ID AB 162-MS
 VOLUME INJECTED 2ul
 COLUMN MP

RUN # 152 FEB/11/85 20:26:49
 WORKFILE ID: C 5-2-50211-17 2ul
 WORKFILE NAME: 8412251-03A 1L
 ID: 5-1-2-84

RT	HEIGHT	TYPE	AR/HI	HEIGHT%
0.296	2690559	DSBH	0.094	51.971
0.524	403630	DTBB	0.070	7.797
0.715	1352528	DSHB	0.074	26.126
0.935	11216	DTBP	0.062	0.217
1.056	10562	DTPB	0.109	0.204
1.478	1269	D BP	0.075	0.025
1.723	1123	D PV	0.111	0.022
2.060	315726	VV	0.116	6.099
2.556	89142	VB	0.138	1.722
3.105	81638	BB	0.189	1.578
4.672	3882	PV	0.321	0.075
5.962	9459	PP	0.291	0.183
7.373	88284	PB	0.337	1.705
8.984	45754	PB	0.392	0.884
10.835	1806	BP	0.471	0.035
13.069	32223	PV	0.579	0.622
21.380	2855	PV	0.968	0.055
23.669	35288	VB	1.143	0.682

TOTAL HGHT= 5177000
 MIN FACTOR= 1 0000E+00



CASE NUMBER 3633
 SAMPLE ID AB162-MS
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 388 FEB/17/85 20:34:44
 ID 1-1-1-85 1-1-50217-10 2ul
 8412051-03A) P.W.

RT	HEIGHT%	HEIGHT	TYPE	AR/HT	HEIGHT%
0.263	3018356	SPH	0.136	10.990	
0.445	1923615	DSHH	0.135	12.105	
0.593	2481305	DSHH	0.114	15.610	
0.773	93894	DTBP	0.065	0.591	
0.919	84170	DTPV	0.074	0.530	
1.246	1358140	SHH	0.097	8.546	
1.444	1537540	SHH	0.124	9.675	
1.719	46334	DTBB	0.101	0.292	
1.981	981843	SHH	0.130	6.178	
2.228	84391	DTBB	0.087	0.531	
2.438	928767	SHH	0.149	5.844	
3.364	2477	TBP	0.143	0.016	
3.712	1529	TPB	0.133	0.010	
4.270	1280139	SHB	0.257	8.055	
4.745	830459	TBP	0.193	5.228	
5.391	38374	TPB	0.332	0.242	
6.893	613331	TBV	0.285	3.860	
7.953	25706	TVP	0.435	0.162	
10.610	619	TPB	1.031	0.004	
13.808	560686	PB	0.573	3.520	

TOTAL HGHT= 1.5892E+07
 MUL FACTOR= 1.0000E+00

Sample Number
AB162MSD

0490

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Radian
Lab Sample ID No: 4ED1205V03
Sample Matrix: Water
Data Release Authorized By: Zapetkovich

Case No: 3633
QC Report No: 40
Contract No: 68-01-6853
Date Sample Received: 12-7-84

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____ PH NR

Percent Moisture: _____

Percent Moisture (Decanted): _____

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value** If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than ten (10) times the detection limit.

- C** This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ul in the final extract should be confirmed by GC/MS.
- B** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- Other** Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.



Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number

AB162MSD

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: NR

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Sample Number
AB162-MSD

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 12-10-84

Date Analyzed: 2-11-85

Conc/Dil Factor: 1000ml : 5ml

CAS Number ug/l or ug/Kg (Circle One)

319-84-6	Alpha-BHC	0.05 u
319-85-7	Beta-BHC	0.05 u
319-86-8	Delta-BHC	0.05 u
58-89-9	Gamma-BHC (Lindane)	0.05 u
76-44-8	Heptachlor	0.05 u
309-00-2	Aldrin	0.05 u
1024-57-3	Heptachlor Epoxide	0.05 u
959-98-8	Endosulfan I	0.05 u
60-57-1	Dieldrin	0.10 u
72-55-9	4, 4'-DDE	0.10 u
72-20-8	Endrin	0.10 u
33213-65-9	Endosulfan II	0.10 u
72-54-8	4, 4'-DDD	0.10 u
7421-93-4	Endrin Aldehyde	0.10 u
1031-07-8	Endosulfan Sulfate	0.10 u
50-29-3	4, 4'-DDT	0.10 u
72-43-5	Methoxychlor	0.50 u
53494-70-5	Endrin Ketone	0.50 u
57-74-9	Chlordane	1.0 u
8001-35-2	Toxaphene	0.50 u
12674-11-2	Aroclor-1016	0.50 u
11104-28-2	Aroclor-1221	0.50 u
11141-16-5	Aroclor-1232	0.50 u
53469-21-9	Aroclor-1242	0.50 u
12672-29-6	Aroclor-1248	0.50 u
11097-69-1	Aroclor-1254	1.0 u
11096-82-5	Aroclor-1260	1.0 u

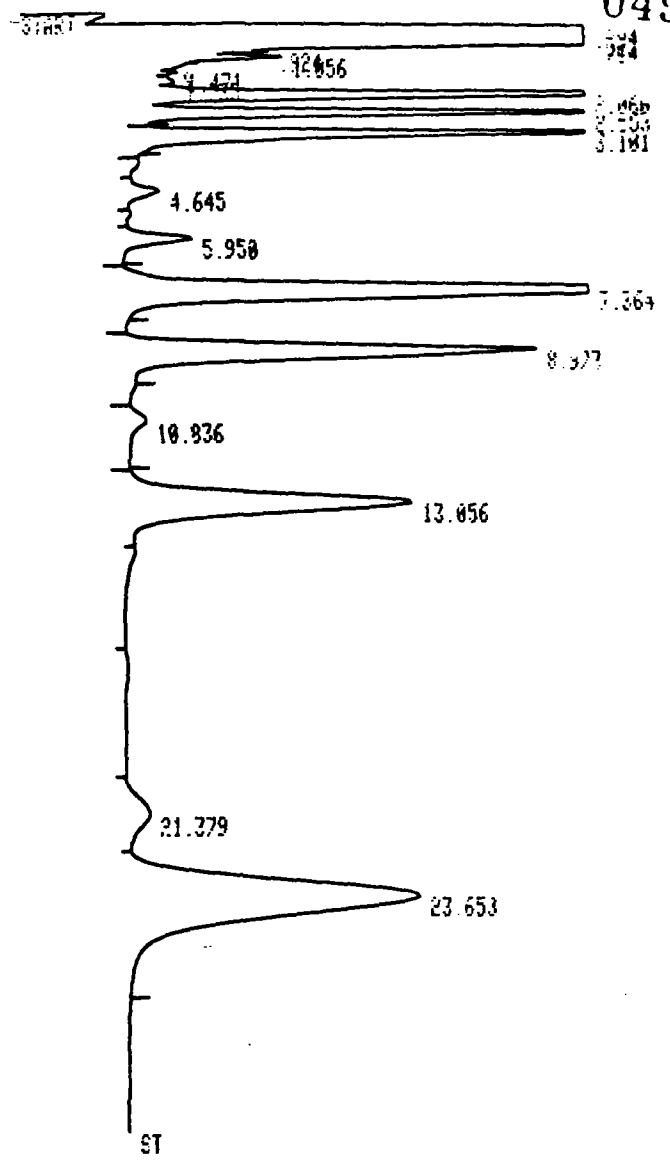
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 ml or W_s _____ V_i 5000 uL V_t 2 uL

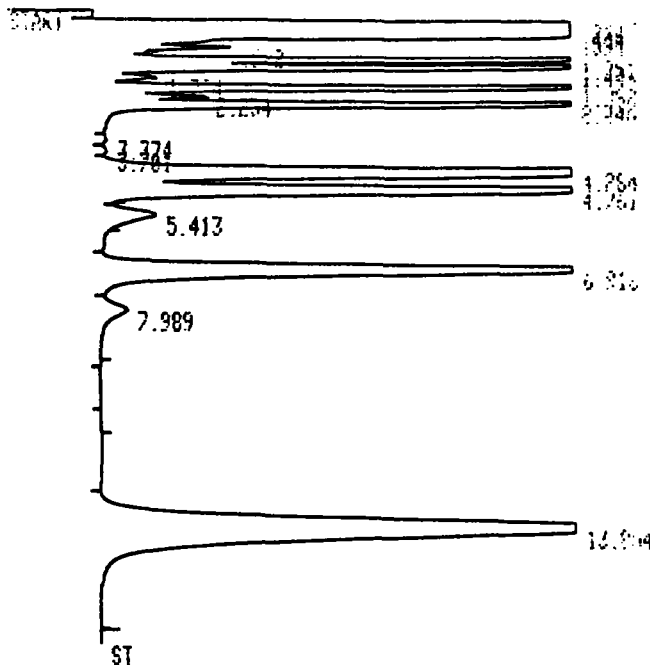


CASE NUMBER 3633
 SAMPLE ID AB 162-MS Dup.
 VOLUME INJECTED 2 uL
 COLUMN MP

3633
 RUN # 153 FEB/11/85 20:59:08
 WORKFILE ID: C 5-2-5041-18 2 uL
 WORKFILE NAME: 8412051-03A>D 1 L
 ID: 5-1-2-84 Rm MP-2 Part.

RT	HEIGHT%	HEIGHT	TYPE	AR/HT	HEIGHT%
0.294	2501179	DSBH	0.091	55.577	
0.521	275609	DTBB	0.071	6.124	
0.714	1049647	DSHB	0.074	23.323	
0.924	2077	DTBP	0.056	0.046	
1.056	7778	DTPB	0.112	0.173	
1.735	1241	PV	0.148	0.023	
2.060	255171	VV	0.115	5.570	
2.553	93913	VB	0.135	2.037	
3.101	85415	BB	0.178	1.898	
4.645	3683	PV	0.310	0.032	
5.950	8038	VB	0.290	0.179	
7.364	93300	PB	0.336	2.073	
8.973	49185	PB	0.392	1.093	
10.836	1963	BB	0.438	0.044	
13.056	34098	BV	0.586	0.730	
21.379	2883	PV	0.986	0.064	
23.653	35246	VB	1.138	0.783	

TOTAL HGHT= 4500400
 MIN FACTOR= 1 0000E+00



CASE NUMBER 3633
 SAMPLE ID AB162-MS dup.
 VOLUME INJECTED 2ul
 COLUMN SP

3633
 RUN # 389 FEB/17/85 20:58:19
 TD 1-1-1-85 1-1-5047-11 2ul
 8412651-03ASD Run
 Run SP Run

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
0.264	2914098	SPH	0.121	19.206
0.444	1797598	DSHH	0.151	11.844
0.594	2290375	DSHM	0.111	10.099
0.922	67257	DTBP	0.080	0.443
1.251	1396514	SHH	0.100	9.201
1.448	1209355	SHH	0.119	7.968
1.724	27511	DTBB	0.099	0.181
1.988	1027721	SHH	0.132	6.771
2.234	42160	DTBB	0.079	0.270
2.446	961956	SHH	0.154	6.338
3.374	2537	TBP	0.142	0.017
3.701	2088	TPB	0.150	0.014
4.284	1312359	SHB	0.290	3.697
4.761	858986	TBP	0.197	5.660
5.413	43038	TPB	0.335	0.294
6.918	650208	TBV	0.294	4.284
7.989	24804	TVP	0.458	0.160
13.854	549204	TBB	0.597	3.619

TOTAL HGHT= 1.3178E+07
 MUL FACTOR= 1.0000E+00

CAMP DRESSER & MCKEE INC.

7630 LITTLE RIVER TURNPIKE

SUITE 500

ANNANDALE, VIRGINIA 22003

703 642-5500