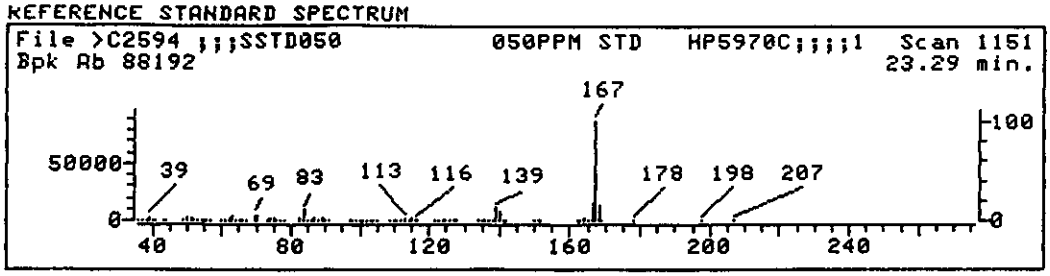
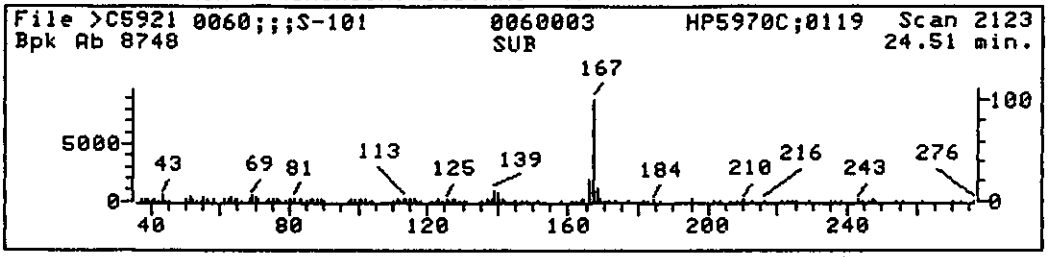
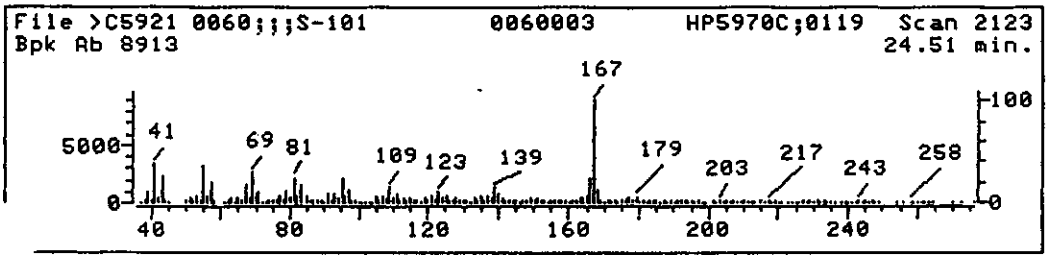
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



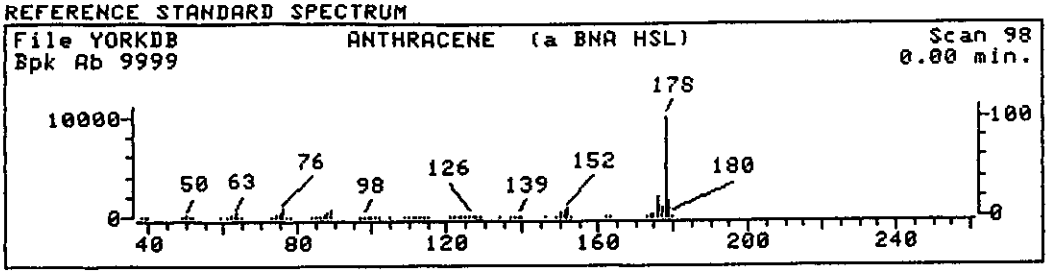
SAMPLE SPECTRUM (UNALTERED)



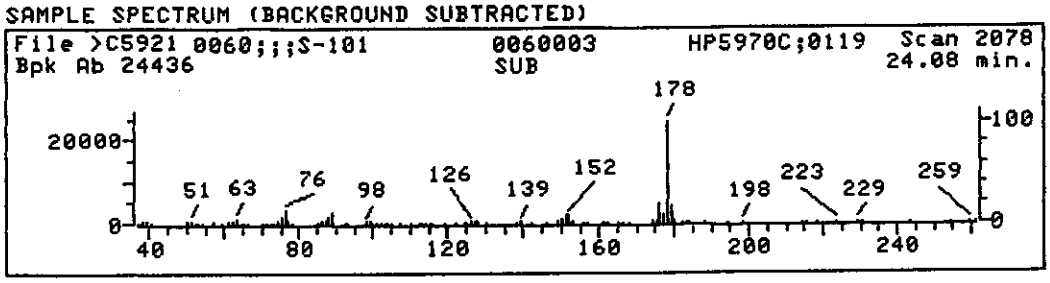
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 60
Compound Name: Carbazole
Scan Number: 2123
Retention Time: 24.51 min.
Quant Ion: 166.8
Area: 22451
Concentration: 3565.90 ug
q-value: 96

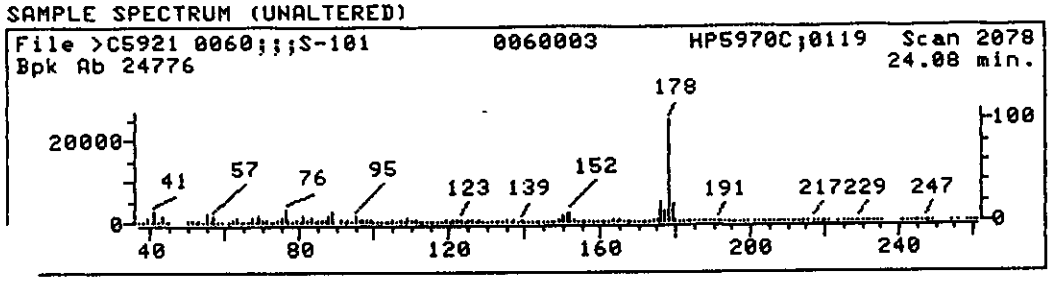
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



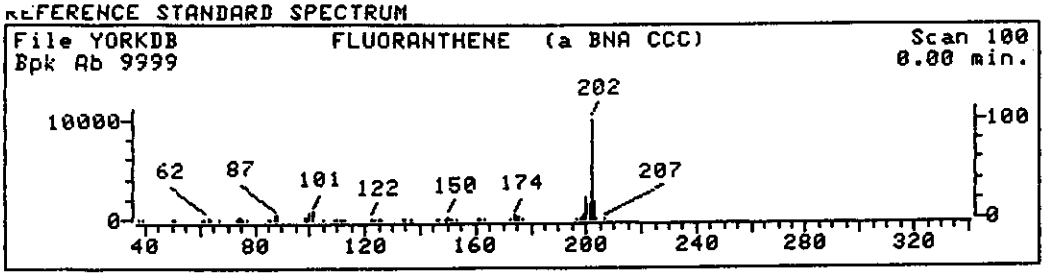
SAMPLE SPECTRUM (UNALTERED)



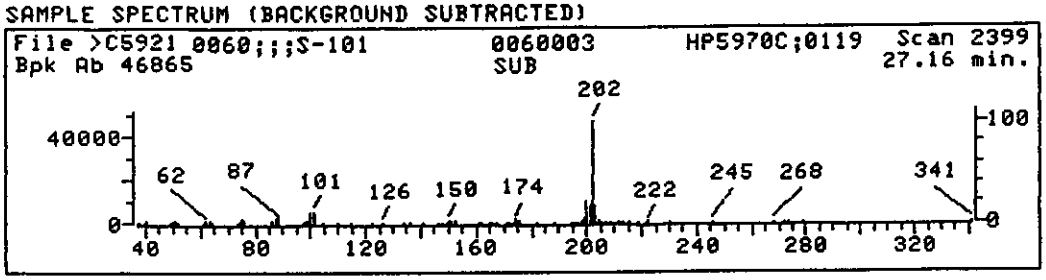
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 61
Compound Name: Anthracene
Scan Number: 2078
Retention Time: 24.08 min.
Quant Ion: 177.9
Area: 65810
Concentration: 3081.68 ug
q-value: 96

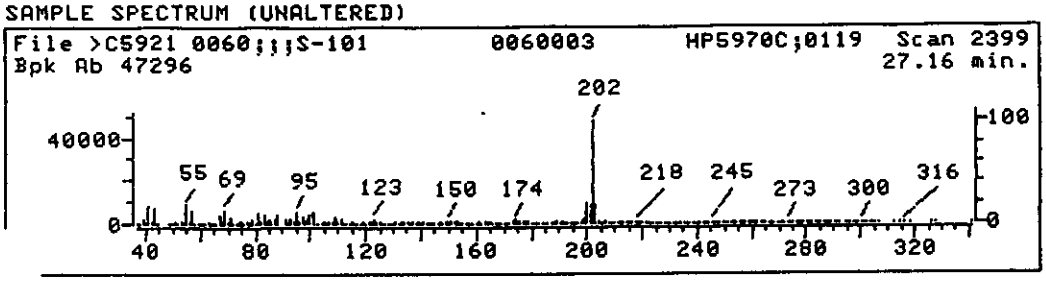
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



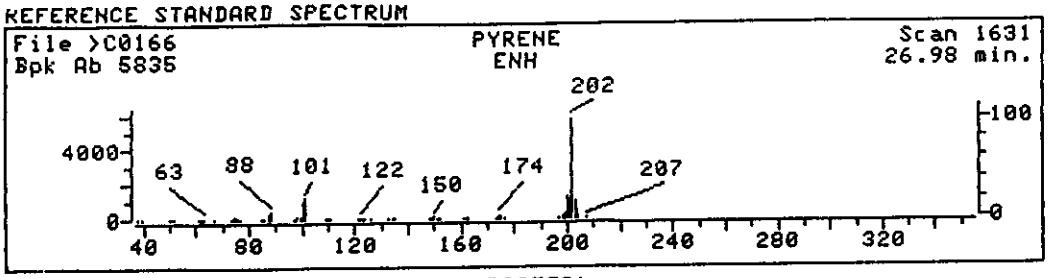
SAMPLE SPECTRUM (UNALTERED)



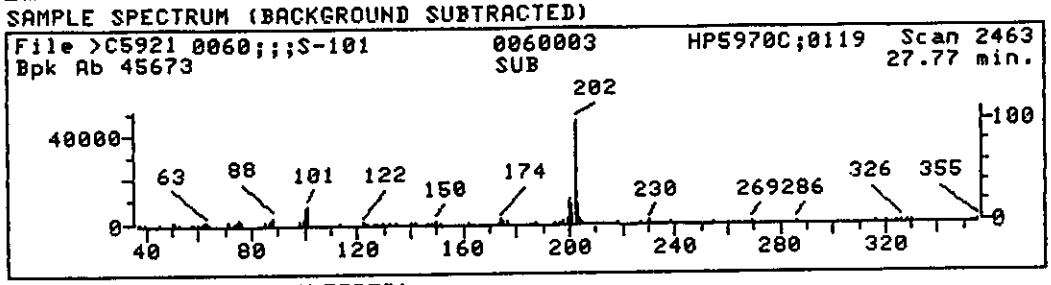
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 63
Compound Name: Fluoranthene
Scan Number: 2399
Retention Time: 27.16 min.
Quant Ion: 201.9
Area: 158727
Concentration: 6962.74 ug
q-value: 98

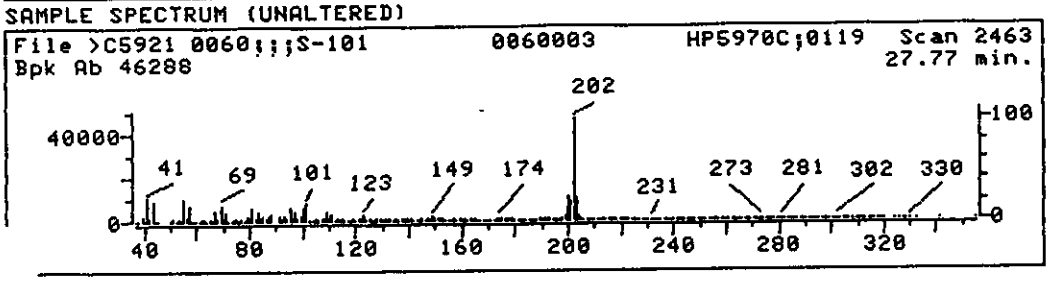
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



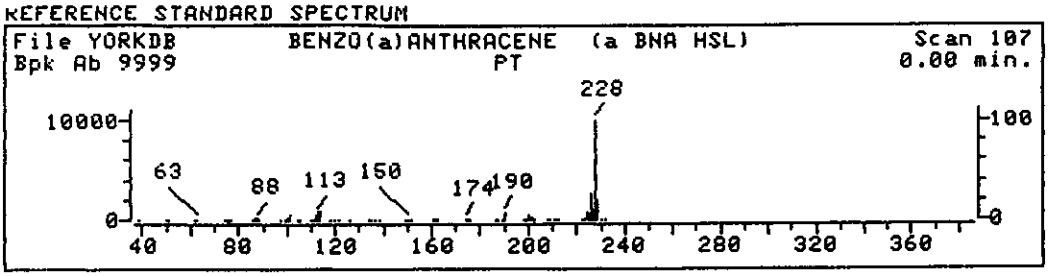
SAMPLE SPECTRUM (UNALTERED)



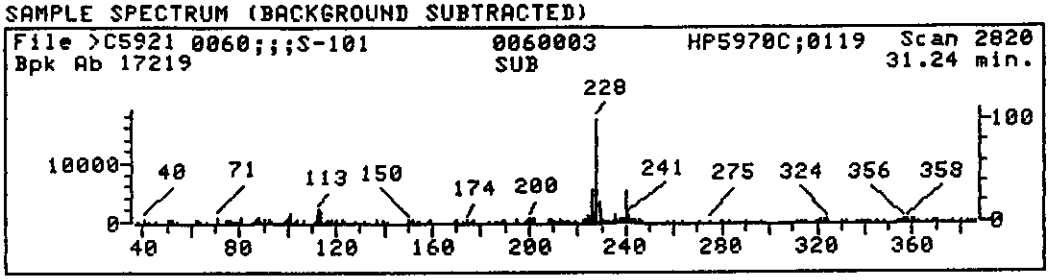
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 65
Compound Name: Pyrene
Scan Number: 2463
Retention Time: 27.77 min.
Quant Ion: 201.9
Area: 163142
Concentration: 6862.64 ug
q-value: 93

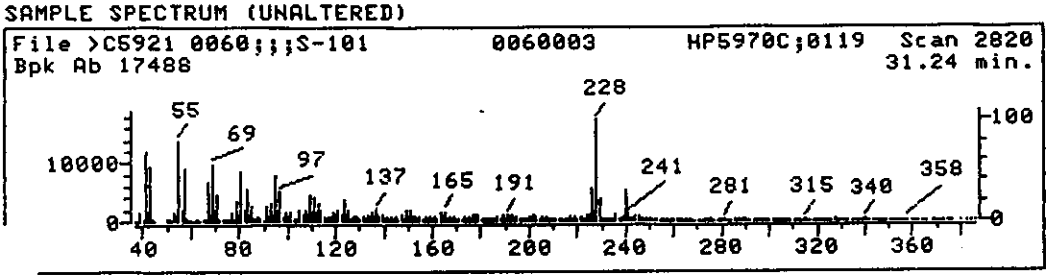
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



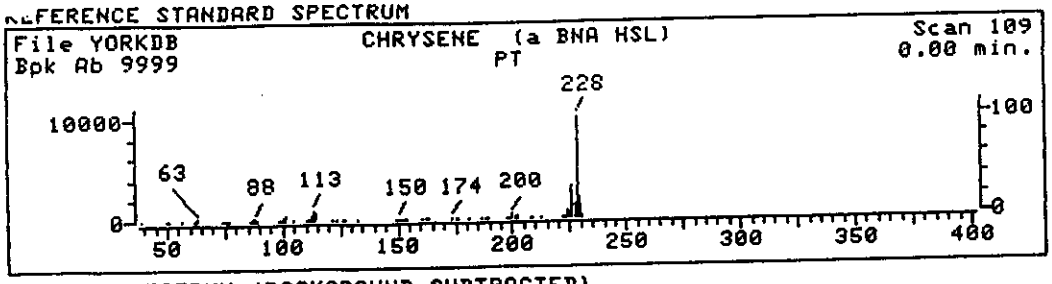
SAMPLE SPECTRUM (UNALTERED)



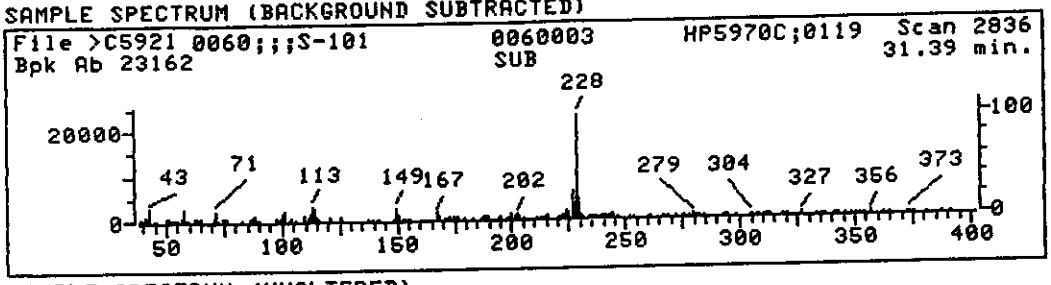
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2820
Retention Time: 31.24 min.
Quant Ion: 228.0
Area: 80934
Concentration: 3925.40 ug
q-value: 89

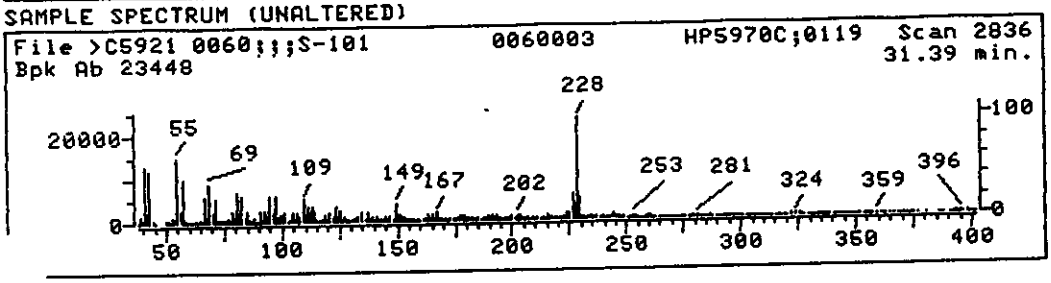
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



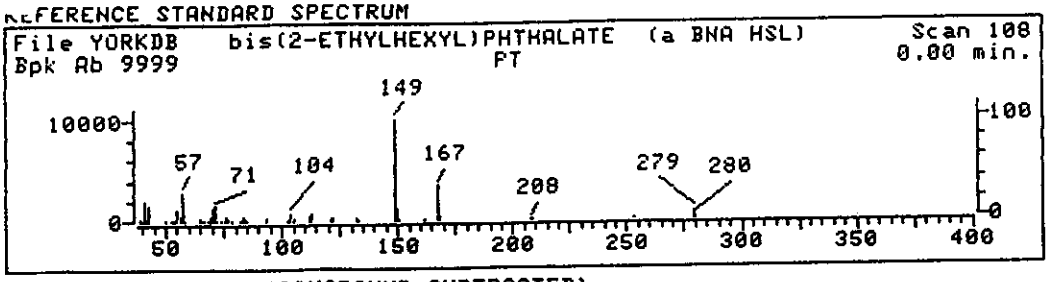
SAMPLE SPECTRUM (UNALTERED)



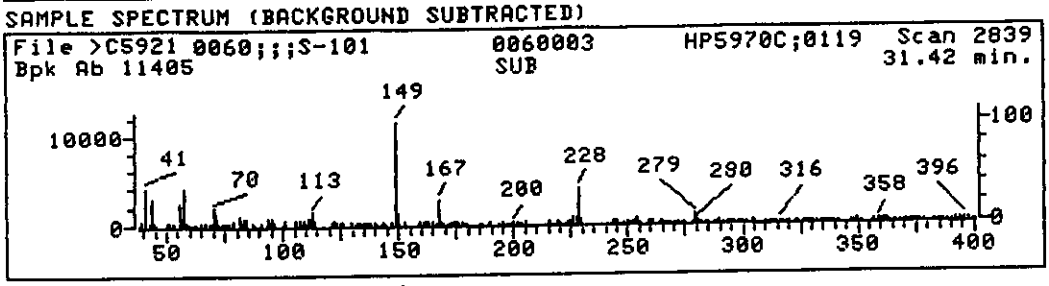
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 70
Compound Name: Chrysene
Scan Number: 2836
Retention Time: 31.39 min.
Quant Ion: 228.0
Area: 86853
Concentration: 4886.92 ug
q-value: 94

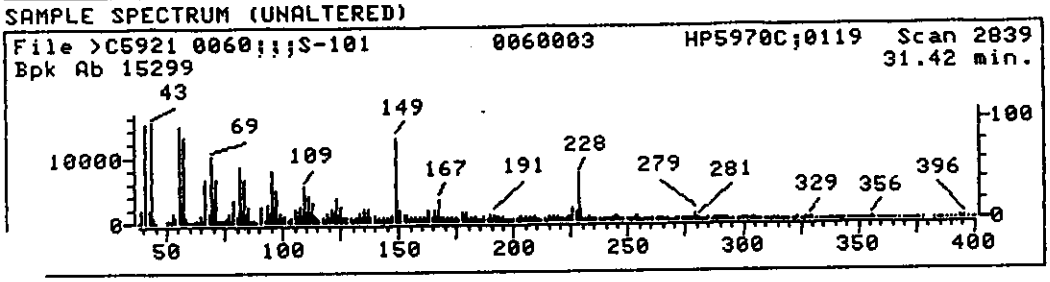
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



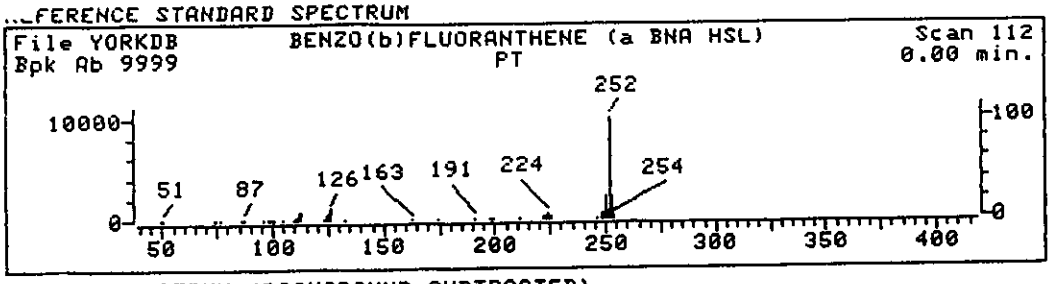
SAMPLE SPECTRUM (UNALTERED)



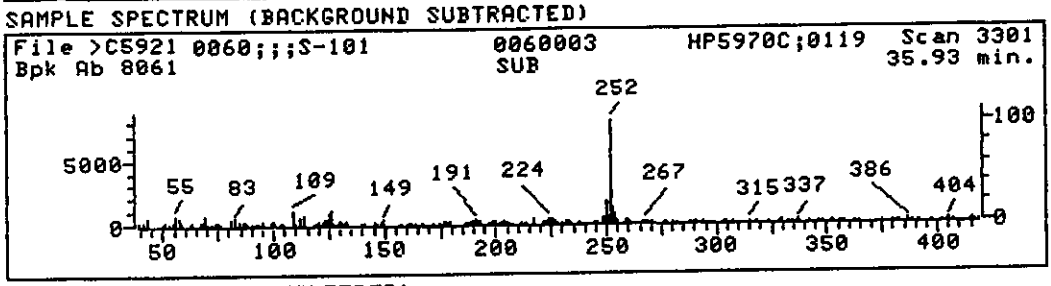
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2839
Retention Time: 31.42 min.
Quant Ion: 148.8
Area: 34477
Concentration: 1939.98 ug
q-value: 73

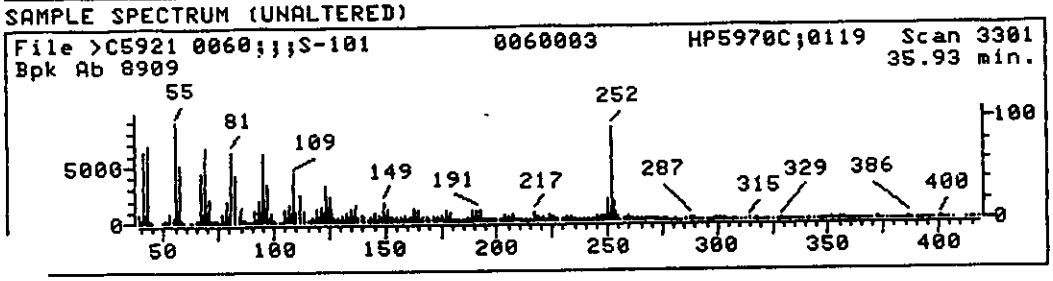
...FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



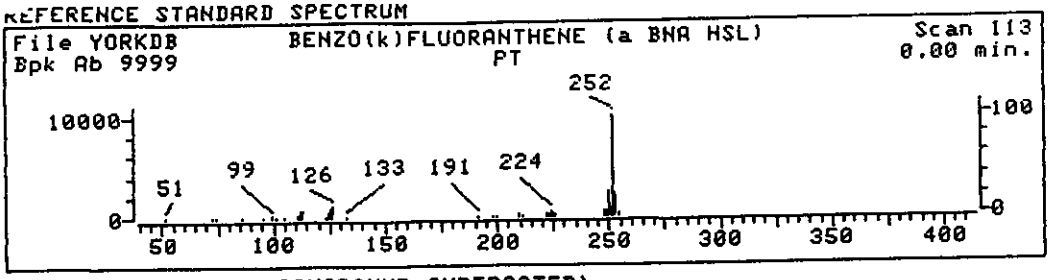
SAMPLE SPECTRUM (UNALTERED)



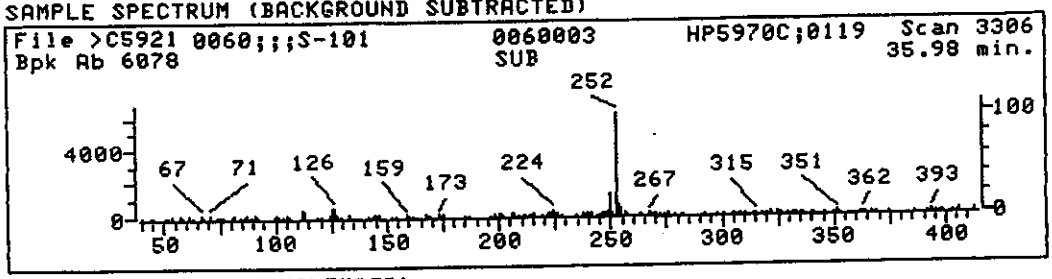
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 74
Compound Name: Benzo(b)fluoranthene
Scan Number: 3301
Retention Time: 35.93 min.
Quant Ion: 252.0
Area: 27439^
Concentration: 3193.03 ug
q-value: 87

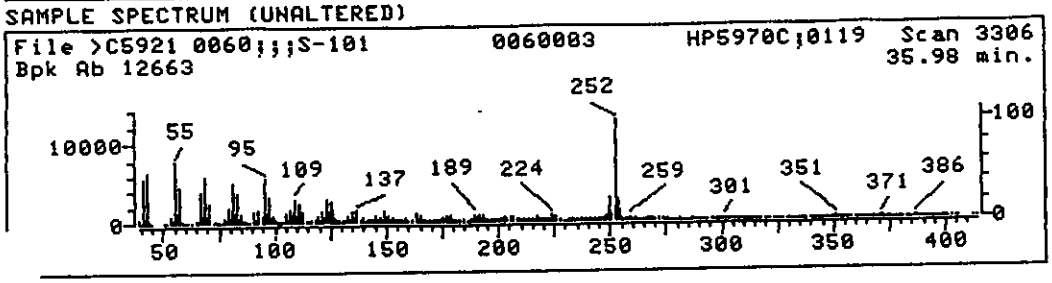
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



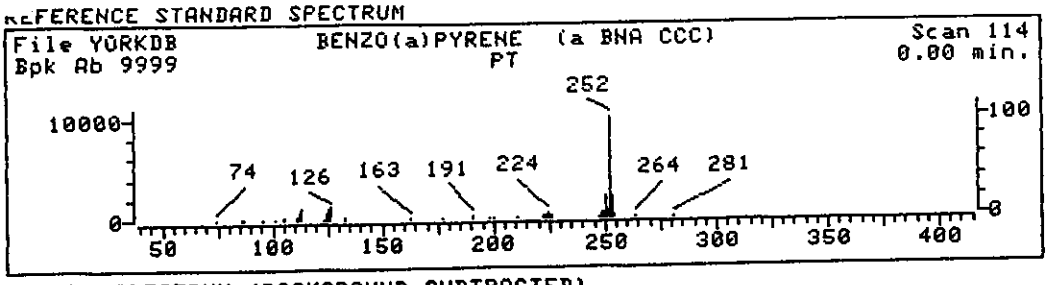
SAMPLE SPECTRUM (UNALTERED)



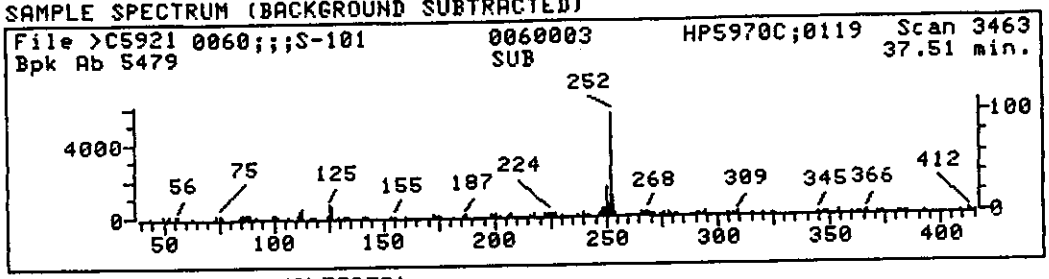
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 75
Compound Name: Benzo(k)fluoranthene
Scan Number: 3306
Retention Time: 35.98 min.
Quant Ion: 252.0
Area: 41697
Concentration: 5089.25 ug
q-value: 90

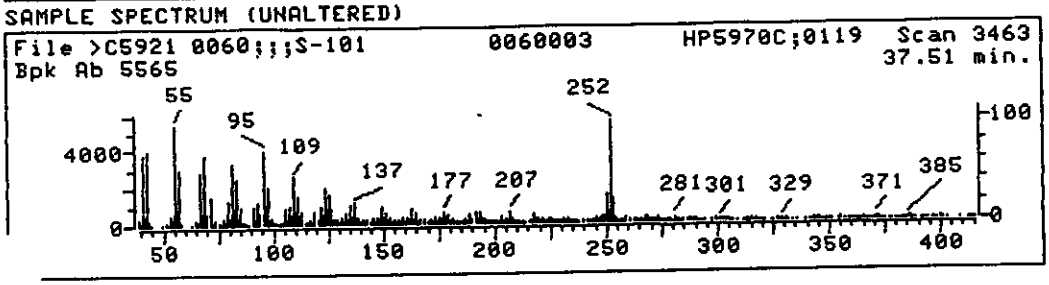
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



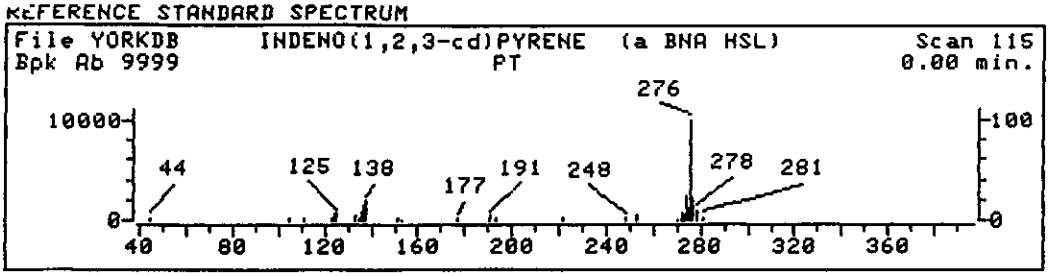
SAMPLE SPECTRUM (UNALTERED)



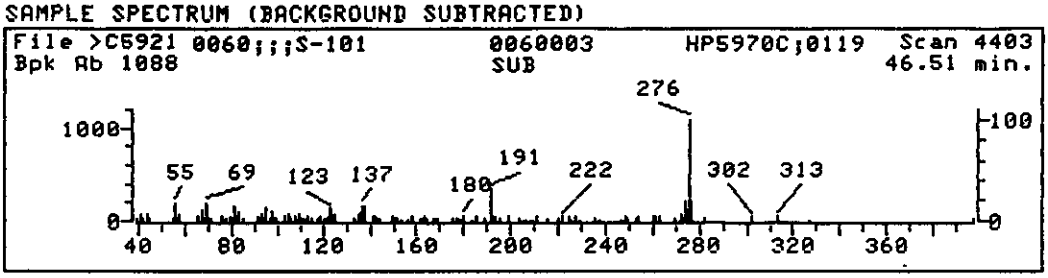
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 76
Compound Name: Benzo(a)pyrene
Scan Number: 3463
Retention Time: 37.51 min.
Quant Ion: 252.0
Area: 41201
Concentration: 5677.79 ug
q-value: 90

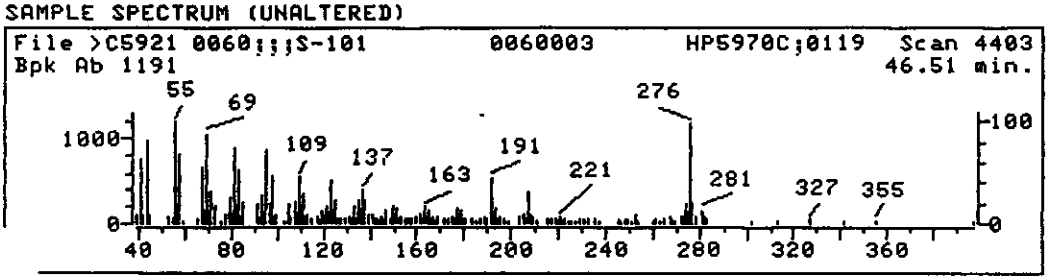
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



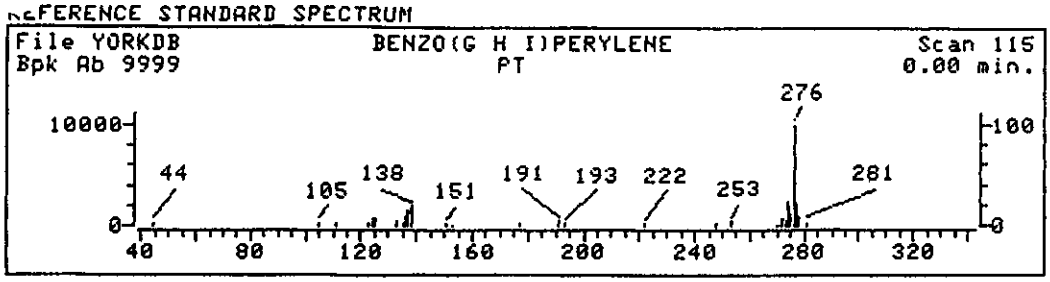
SAMPLE SPECTRUM (UNALTERED)



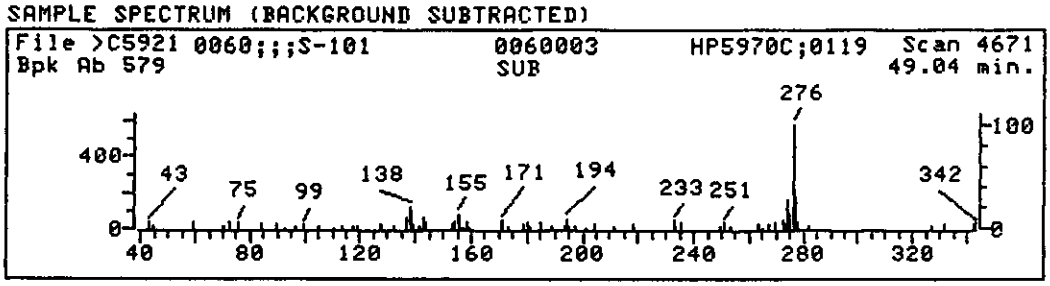
Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4403
Retention Time: 46.51 min.
Quant Ion: 276.0
Area: 5500
Concentration: 922.46 ug
q-value: 85

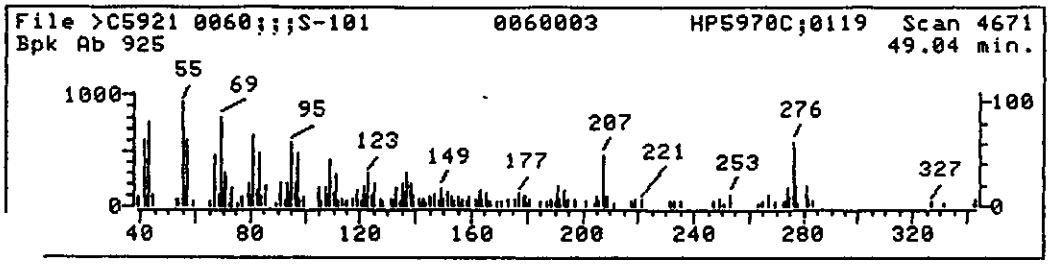
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5921::C1 Quant Output File: ^C5921::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8.0;;7.3;C0952 BTL# 9
Quant Time: 930201 22:45 Quant ID File: I_EPA::N1
Injected at: 930201 21:50 Last Calibration: 930201 13:46

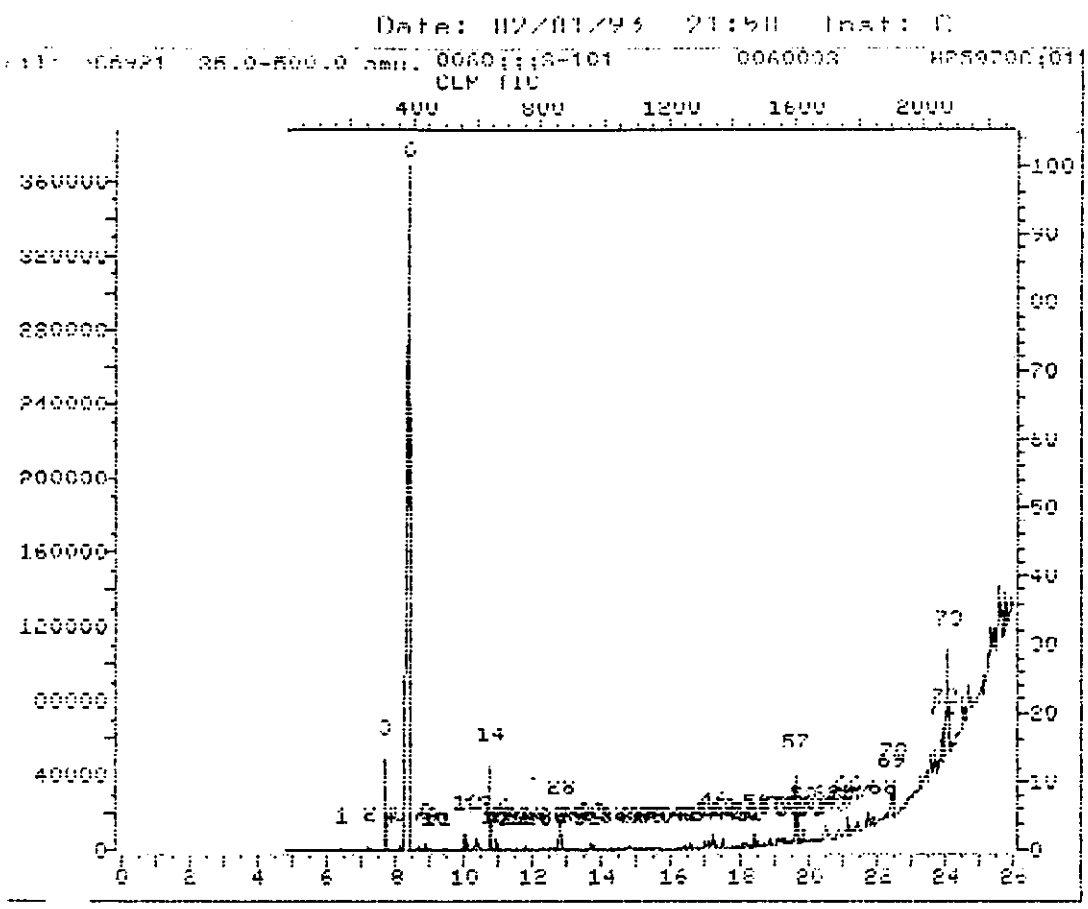
Compound No: 79
Compound Name: Benzo(g,h,i)perylene
Scan Number: 4671
Retention Time: 49.04 min.
Quant Ion: 276.0
Area: 4302
Concentration: 699.47 ug
q-value: 74

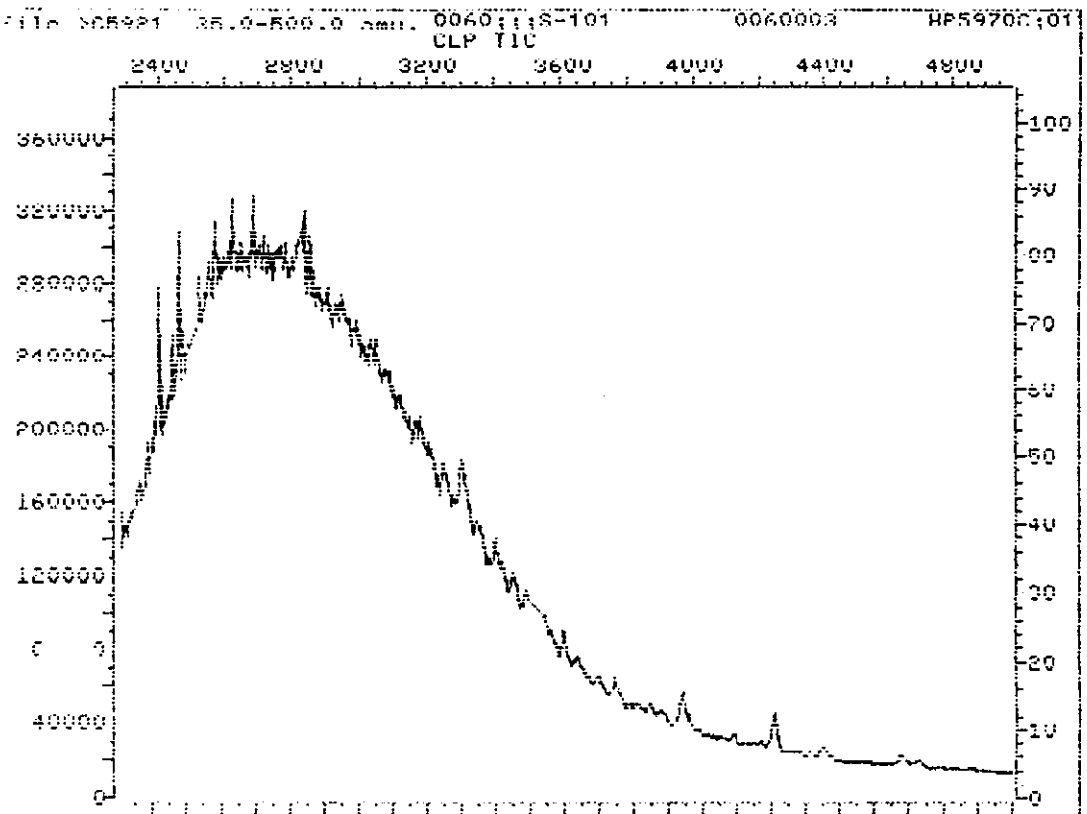
0312

MS data file header from : >105921

Sample: 0060;;;S-101 Operator: MSC MS 2/01/93 21:50
Misc : 00A00005 HP5972C;0011995;0012095;01S;8.0;;2.5;00952 BTL# 9
Sys. #: 1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M 1 Tuning file: T 0 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


Date: 02/01/94 21:50 Inst: 0
CLP TIC
400
800
1200
1600
2000
3
14
28
57
69
73
0
2
4
6
8
10
12
14
16
18
20
22
24


CLP TIC
2400
2800
3200
3600
4000
4400
4800

S-101
HP5970C
0314

Date: 02/11/93 21:58 Inst: C

T I C P E A K R E P O R T

PK#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
6.	8.52	1641212.	591000.	1.	155.0
9.	7.62	103541.	3700.	1.	155.0
14.	10.22	84829.	3100.	1.	155.0
28.	12.28	51396.	1900.	1.	155.0
33.	10.35	31458.	1100.	1.	155.0
70.	22.46	40956.	780.	4.	155.0

I N T E R N A L S T D A R E A R E P O R T

ISTD	Compound Name	RT	Area	RT Range		TI/SI
	1,4-DICHLOROBENZENE-D4	12.10	121390.	0.00	13.73	6.7
	NAPHTHALENE-D8	15.35	244692.	13.73	17.68	2.3
	ACENAPHTHENE-D10	20.01	282854.	17.68	21.96	4.6
	PHENANTHRENE-D10	23.91	326462.	21.96	27.61	2.5
	CHRYSENE-D12	31.32	22000.	27.61	34.20	.7
	PERYLENE-D12	38.09	17800.	34.20	49.04	.4

ISTD peaks found:	6
Surrogate peaks found:	7
Quant target peaks expected:	26
Target peaks matched:	7
Total TIC identified:	6

TICS : 2:14 PM TUE., 9 FEB., 1993

RPN 0115

0315

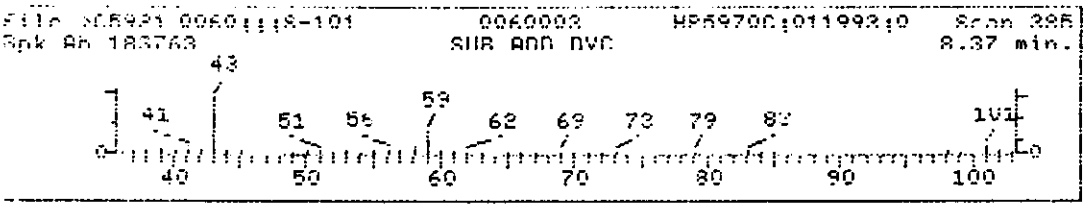
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5921 Spectrum #: 385

No data base entries were retrieved.

Peak#: 6 Area: 1640212. Est Conc: 59000. Date: 02/01/93 21:50 Inst: C



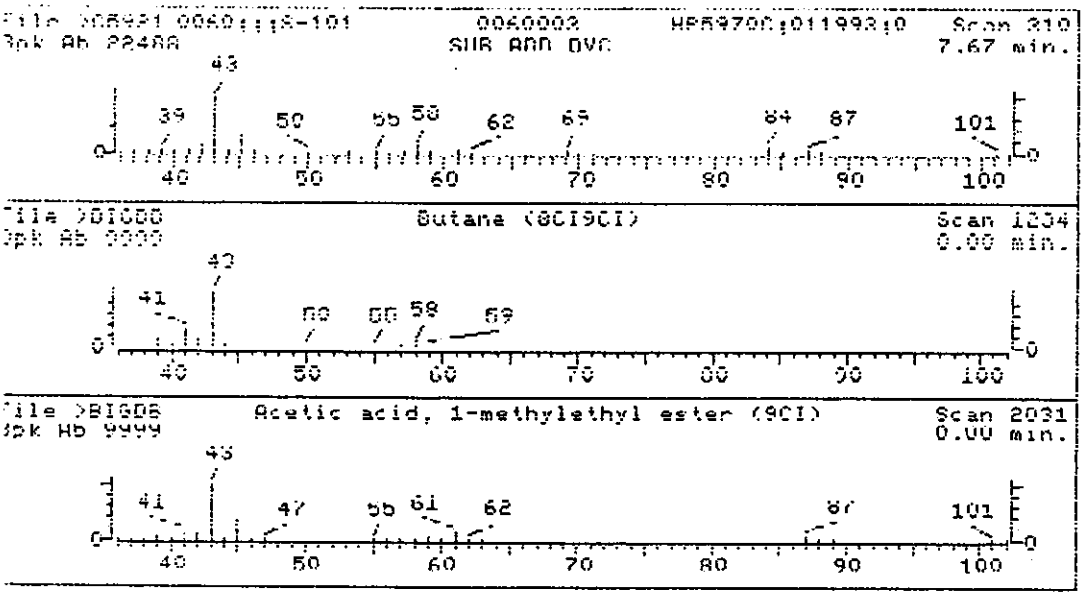
RPN error for command: RSF&S
RPN error: -6
Bad record length RSF

1. Butane (8CI,9CI) 58 C4H10
2. Acetic acid, 1-methylethyl ester (9CI) 102-C5H10O2

Sample File: >DS921 Spectrum #: 310
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CDN #	ROOT	K	DK	#FIG	TILT	%	CDN	C	I	R	IO
1.	38*	106978	1234	"BIGDB	23	56	2	0	100	35	12		13	
2.	25	108214	2031	"BIGDB	36	43	1	0	64	44	8		13	

Peak#: 3 Area: 103341. Est Conc: 3210. Date: 02/01/93 21:50 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
th un string or have forgotten the order of the run string.

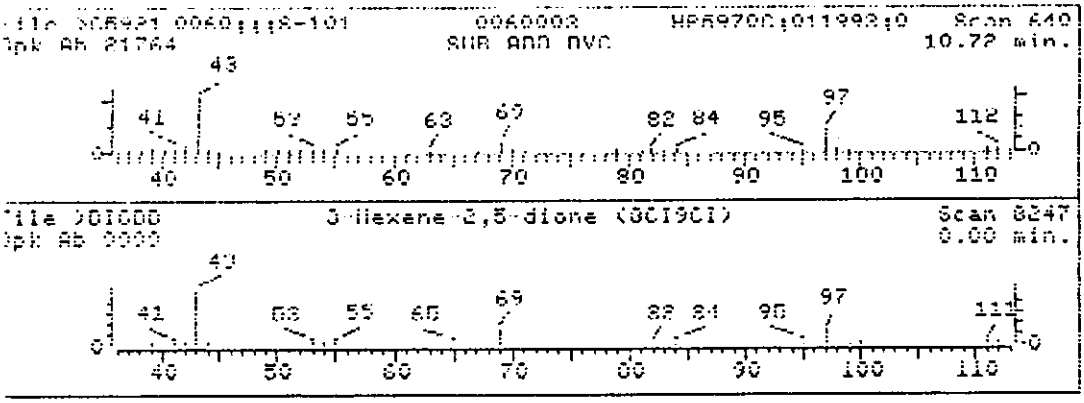
RPN error for command: RSF&3
RPN error: -5
ad record length RSF

1. 3-Hexene-2,5-dione (RIC19CI) 112 C6H8O2

Sample file: >C5921 Spectrum #: 640
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	RUN	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	21%*	4436253	8247	"RIGDR	28	54	2	0	100	10	42	14		

Peak#: 14 Area: 84829. Est Conc: 3100. Date: 02/01/93 21:50 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

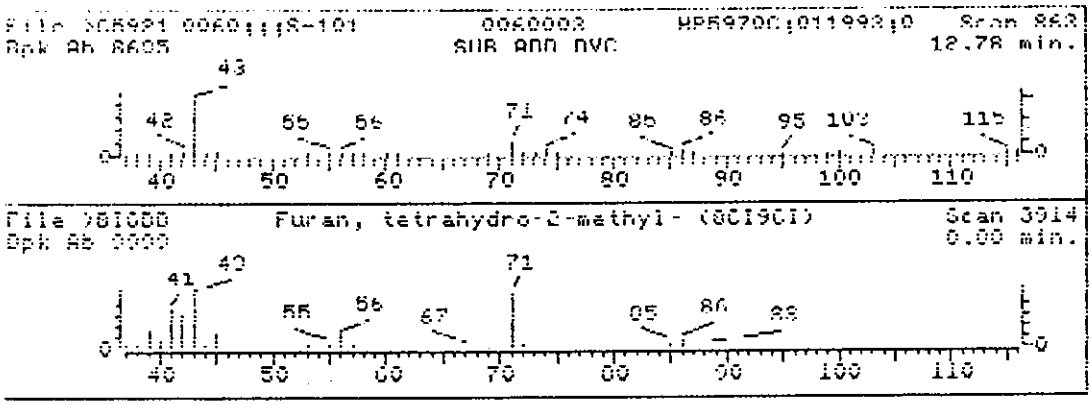
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Furan, tetrahydro-2-methyl- (8CI9CI) R6 C5H10O

Sample file: >C6921 Spectrum #: 863
Search speed: 3 Fitting option: S No. of ion ranges searched: 68

	Prob.	CAS #	CON #	RUN	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	11*	96429	3914	"RIGOR	27	42	2	8	23	62	2			14

Peak#: 28 Area: 51396. Est Conc: 1900. Date: 02/01/93 21:50 Inst: C



RPN 'HB'

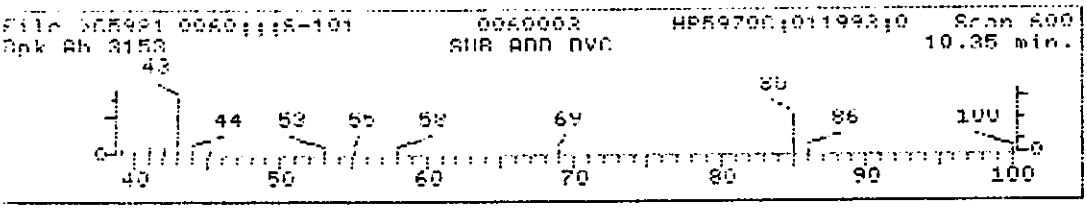
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSE61
RPN error: -5
Bad record length RSF

Sample file: >C5921 Spectrum #: 600

No data base entries were retrieved.

Peak#: 13 Area: 31458. Est Conc: 1100. Date: 02/01/93 21:50 Inst: C

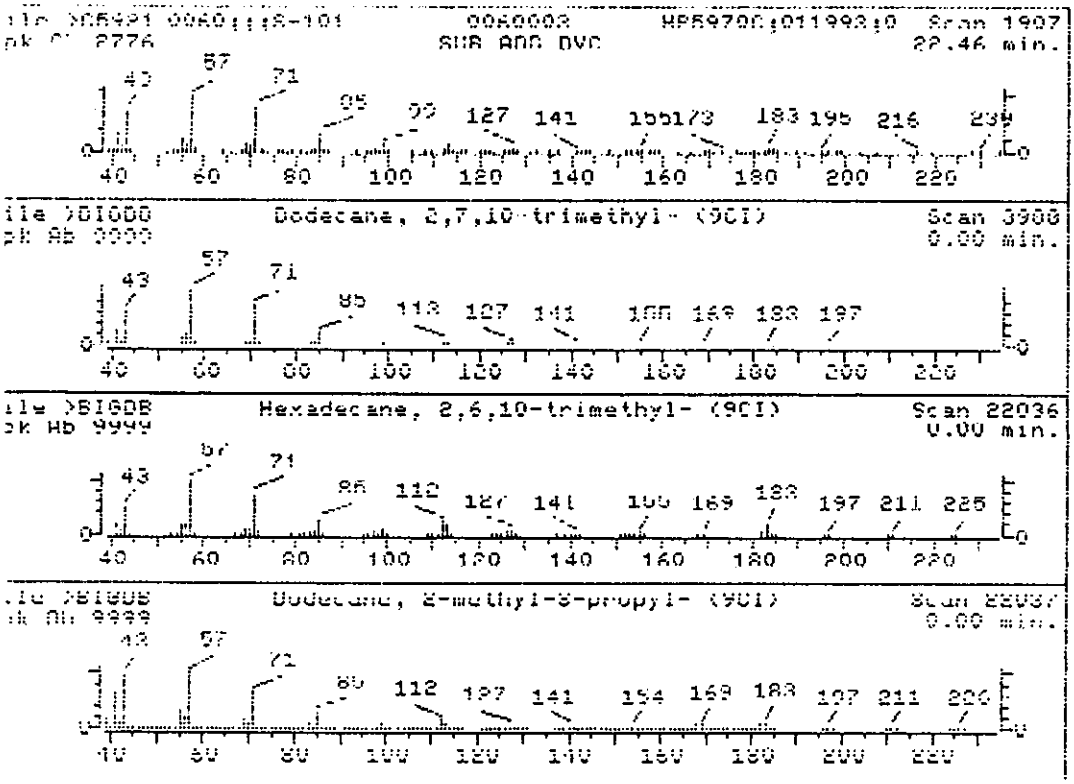


1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Hexadecane, 2,6,10-trimethyl- (9CI)	268 C19H40
3.	Dodecane, 2-methyl-8-propyl- (9CI)	226 C16H34
4.	Tridecane, 5-propyl- (9CI)	226 C16H34

Sample file: >I59Y1 Spectrum #: 1907
Search speed: 3 Tilting option: S No. of inn ranges searched: 81

	Prob.	CAS #	CON #	ROOT	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	71	74645980	3988	"BIGDB	81	28	1	-1	83	15	38			31
2.	28	55000597	22036	"BIGDB	87	47	2	2	99	8	42			18
3.	28	55045873	22037	"BIGDB	82	46	2	-2	80	7	42			13
4.	28	55045119	10998	"BIGDB	68	45	2	0	100	10	42			15

Peak#: 71 Area: 40956. Est Conc: 780. Date: 02/01/93 21:50 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0321

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	U
111-44-4	bis(2-Chloroethyl)ether	3100	U
95-57-8	2-Chlorophenol	3100	U
541-73-1	1,3-Dichlorobenzene	3100	U
106-46-7	1,4-Dichlorobenzene	3100	U
95-50-1	1,2-Dichlorobenzene	3100	U
95-48-7	2-Methylphenol	3100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3100	U
106-44-5	4-Methylphenol	3100	U
621-64-7	N-Nitroso-di-n-propylamine	3100	U
67-72-1	Hexachloroethane	3100	U
98-95-3	Nitrobenzene	3100	U
78-59-1	Isophorone	3100	U
88-75-5	2-Nitrophenol	3100	U
105-67-9	2,4-Dimethylphenol	3100	U
111-91-1	bis(2-Chloroethoxy)methane	3100	U
120-83-2	2,4-Dichlorophenol	3100	U
120-82-1	1,2,4-Trichlorobenzene	3100	U
91-20-3	Naphthalene	660	J
106-47-8	4-Chloroaniline	3100	U
87-68-3	Hexachlorobutadiene	3100	U
59-50-7	4-Chloro-3-methylphenol	3100	U
91-57-6	2-Methylnaphthalene	440	J
77-47-4	Hexachlorocyclopentadiene	3100	U
88-06-2	2,4,6-Trichlorophenol	3100	U
95-95-4	2,4,5-Trichlorophenol	7400	U
91-58-7	2-Chloronaphthalene	3100	U
88-74-4	2-Nitroaniline	7400	U
131-11-3	Dimethylphthalate	3100	U
208-96-8	Acenaphthylene	3500	
606-20-2	2,6-Dinitrotoluene	3100	U
99-09-2	3-Nitroaniline	7400	U
83-32-9	Acenaphthene	290	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101RE 0322

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

amc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7400	U
100-02-7	4-Nitrophenol	7400	U
132-64-9	Dibenzofuran	600	J
121-14-2	2,4-Dinitrotoluene	3100	U
84-66-2	Diethylphthalate	3100	U
7005-72-3	4-Chlorophenyl-phenylether	3100	U
86-73-7	Fluorene	600	J
100-01-6	4-Nitroaniline	7400	U
534-52-1	4,6-Dinitro-2-methylphenol	7400	U
86-30-6	N-Nitrosodiphenylamine (1)	3100	U
101-55-3	4-Bromophenyl-phenylether	3100	U
118-74-1	Hexachlorobenzene	3100	U
87-86-5	Pentachlorophenol	7400	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	2300	J
84-74-2	Di-n-butylphthalate	160	JB
206-44-0	Fluoranthene	6800	
129-00-0	Pyrene	7800	
85-68-7	Butylbenzylphthalate	3100	U
91-94-1	3,3'-Dichlorobenzidine	3100	U
56-55-3	Benzo(a)anthracene	4600	
218-01-9	Chrysene	6500	
117-81-7	bis(2-Ethylhexyl)phthalate	2400	JB
117-84-0	Di-n-octylphthalate	3100	U
205-99-2	Benzo(b)fluoranthene	3500	
207-08-9	Benzo(k)fluoranthene	3800	
50-32-8	Benzo(a)pyrene	4000	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	J
53-70-3	Dibenz(a,h)anthracene	3100	U
191-24-2	Benzo(g,h,i)perylene	550	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101RE

0323

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

cmc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.43	61000	JAB
2.		UNKNOWN	7.75	3200	JB
3.			10.80	3000	
4.			12.86	1400	
5.			10.44	1300	
6.		UNKNOWN ALKANE	22.57	690	
7.					
8.					
9.					
10.					
11.					
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30.					

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930202 23:58
Output File: ^C5934::QT Injected at: 930202 23:03
Data File: >C5934::C4 Dilution Factor: 155.0400
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10

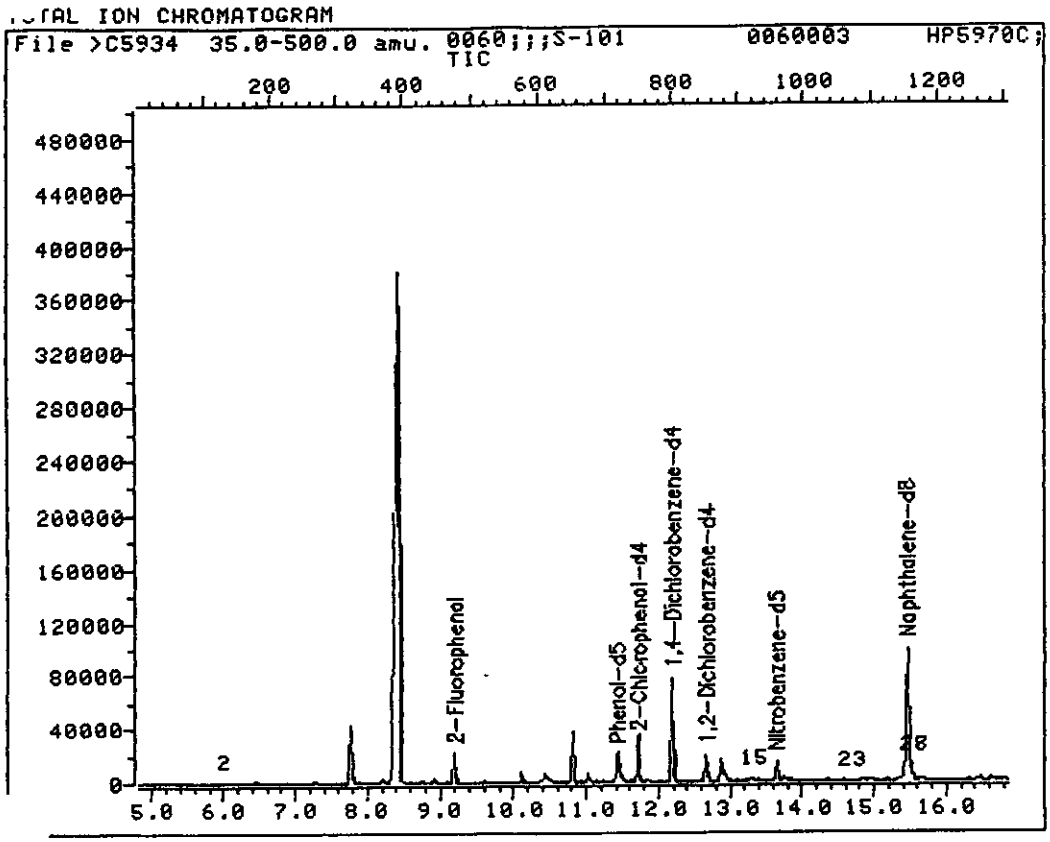
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.19	151.8	25959	40.00	ug	95
2)	Pyridine	5.98	52.0	636	122.54	ug	83
3)	2-Chlorophenol-d4	11.71	132.0	11398	2255.29	ug	98
4)	2-Fluorophenol	9.19	111.8	9817	2000.27	ug	87
5)	Phenol-d5	11.42	98.8	14310	2173.41	ug	74
6)	Phenol	11.46	93.9	450^	66.73	ug	74
11)	1,2-Dichlorobenzene-d4	12.67	152.0	5230	1375.39	ug	92
15)	4-Methylphenol	13.29	107.8	392^	82.90	ug	68
18)	*Naphthalene-d8	15.45	135.9	107614	40.00	ug	98
19)	Nitrobenzene-d5	13.65	81.8	8792	1133.71	ug	93
9	2,4-Dimethylphenol	14.63	106.8	258	37.93	ug	91
27)	Naphthalene	15.50	127.9	10784	663.91	ug	85
28)	4-Chloroaniline	15.58	126.8	1409	1388.40	ug	32
31)	2-Methylnaphthalene	17.30	141.9	5274	439.43	ug	93
32)	*Acenaphthene-d10	20.11	163.9	64059	40.00	ug	86
36)	2-Fluorobiphenyl	18.32	171.8	23043	1863.82	ug	97
40)	Acenaphthylene	19.70	152.0	52650	3472.47	ug	94
43)	Acenaphthene	20.19	152.9	3133	290.60	ug	99
45)	4-Nitrophenol	20.72	108.8	105	65.50	ug	80
46)	Dibenzofuran	20.61	167.8	9266	599.06	ug	93
50)	Fluorene	21.53	165.9	6069	597.32	ug	94
52)	2,4,6-Tribromophenol	22.21	329.6	10301	2914.53	ug	95
53)	*Phenanthrene-d10	24.02	187.9	143905	40.00	ug	99
58)	Pentachlorophenol	23.67	265.6	530	124.17	ug	88
59)	Phenanthrene	24.07	177.9	79587	3569.72	ug	95
60)	Carbazole	24.62	166.8	21883	2276.64	ug	88
61)	Anthracene	24.19	177.9	72760	3152.65	ug	96
62)	Di-n-butylphthalate	25.66	148.8	5400	161.98	ug	96
63)	Fluoranthene	27.28	201.9	172845	6783.63	ug	90
64)	*Chrysene-d12	31.45	240.0	101370	40.00	ug	94
65)	Pyrene	27.89	201.9	181030	7858.47	ug	96
66)	Terphenyl-d14	28.28	244.0	34277	1956.50	ug	97
67)	Butylbenzylphthalate	29.65	148.8	3079	262.02	ug	99
68)	3,3'-Dichlorobenzidine	31.02	251.9	4293	1969.11	ug	44
69)	Benzo(a)anthracene	31.39	228.0	81016	4594.91	ug	97
	Chrysene	31.54	228.0	94277	6502.13	ug	96
	bis(2-Ethylhexyl)phthalate	31.56	148.8	35799	2370.59	ug	85
72)	*Perylene-d12	38.43	264.0	37337	40.00	ug	84
73)	Di-n-octylphthalate	33.71	148.9	4730	380.51	ug	84
74)	Benzo(b)fluoranthene	36.15	252.0	27633^	3464.65	ug	84
74)	Benzo(b)fluoranthene	36.31	252.0	26427^	3313.44	ug	85
		36.15	252.0	27633^	4030.99	ug	88

	Compound	R.T.	Q ion	Area	Conc	Units	q
76)	Benzo(a)pyrene	38.05	252.0	25658	4027.68	ug	97
77)	Indeno(1,2,3-cd)pyrene	46.88	276.0	5866	1160.21	ug	85
~~78)~~	~~Dibenz(a,h)anthracene~~	~~47.10~~	~~278.0~~	~~605~~	~~119.72~~	~~ug~~	~~92~~
79)	Benzo(g,h,i)perylene	49.44	276.0	2920	554.37	ug	68

* Compound is ISTD

2/16/93

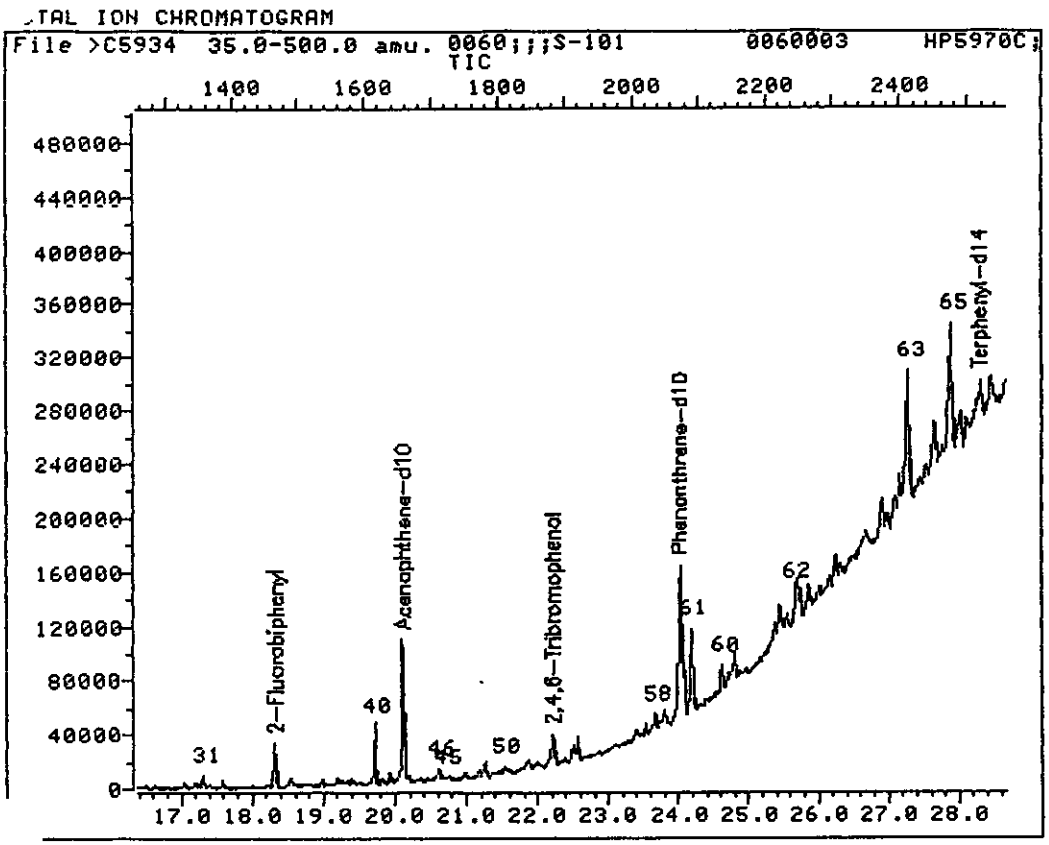


Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 23:58
Injected at: 930202 23:03

TIC page 1 of 4



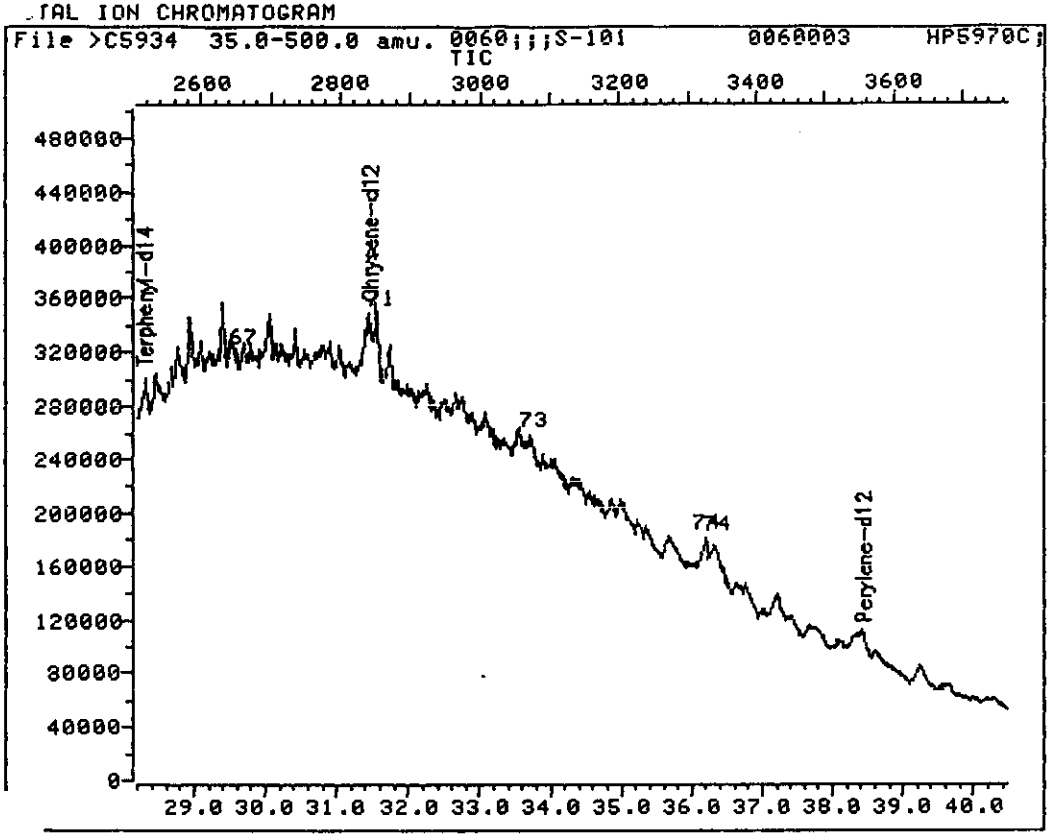
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 23:58
Injected at: 930202 23:03

TIC page 2 of 4

TAL ION CHROMATOGRAM



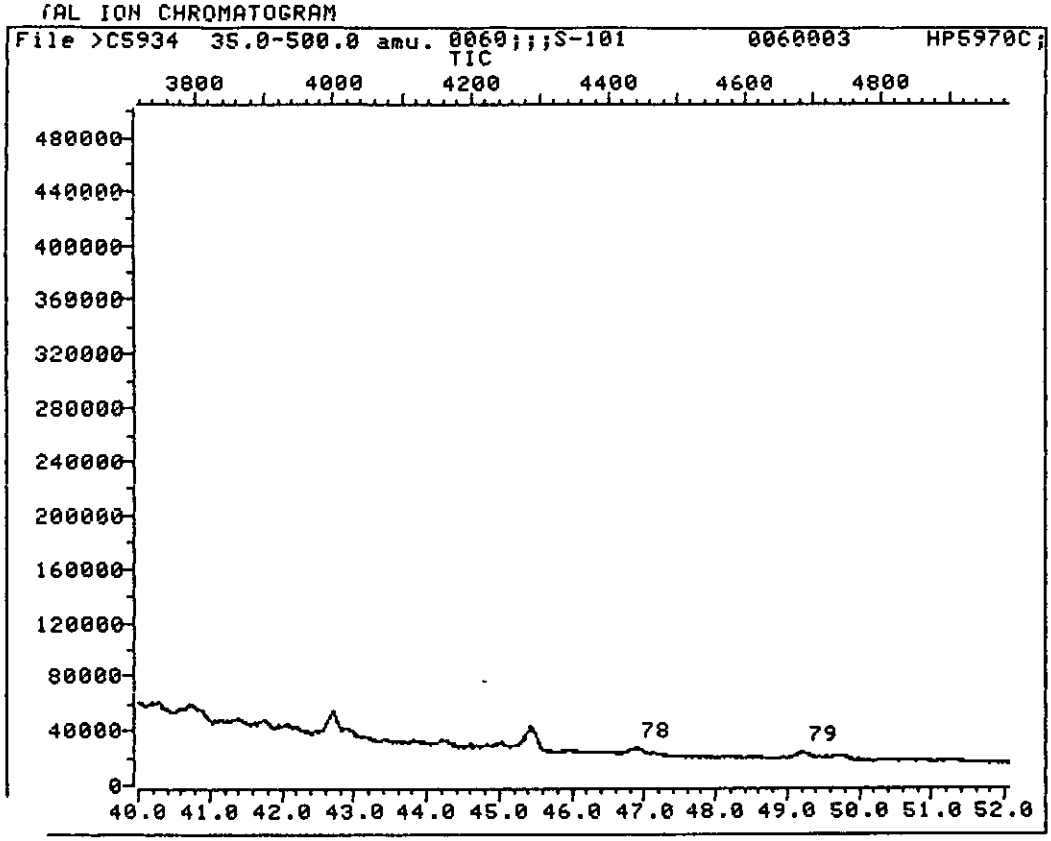
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101 RE
Misc: 0060003 RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 23:58
Injected at: 930202 23:03

TIC page 3 of 4

TAL ION CHROMATOGRAM



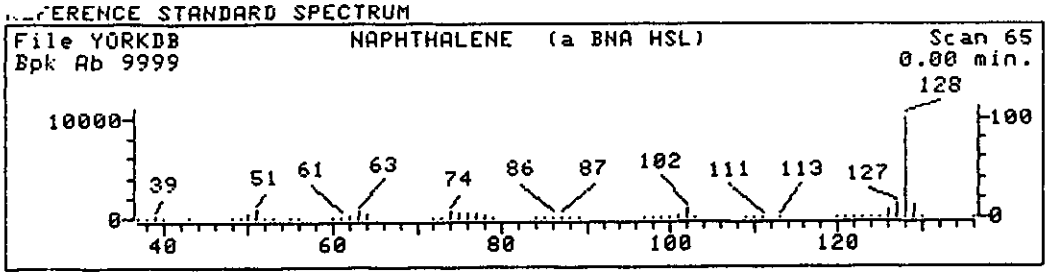
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

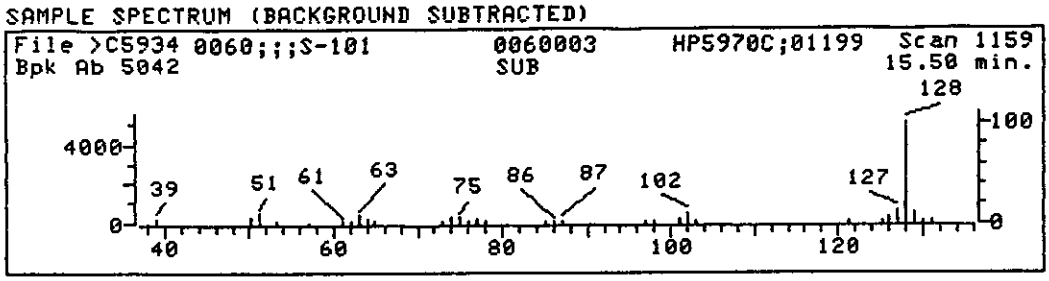
Operator ID: MSC
Quant Time: 930202 23:58
Injected at: 930202 23:03

TIC page 4 of 4

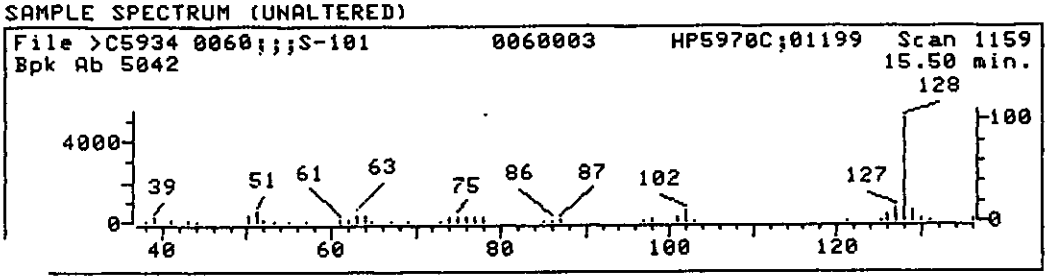
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



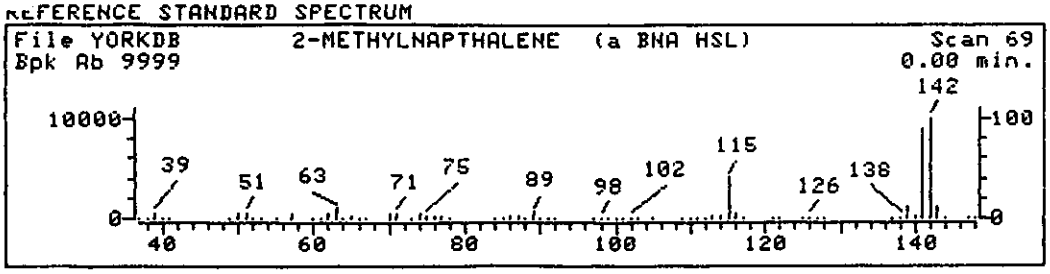
SAMPLE SPECTRUM (UNALTERED)



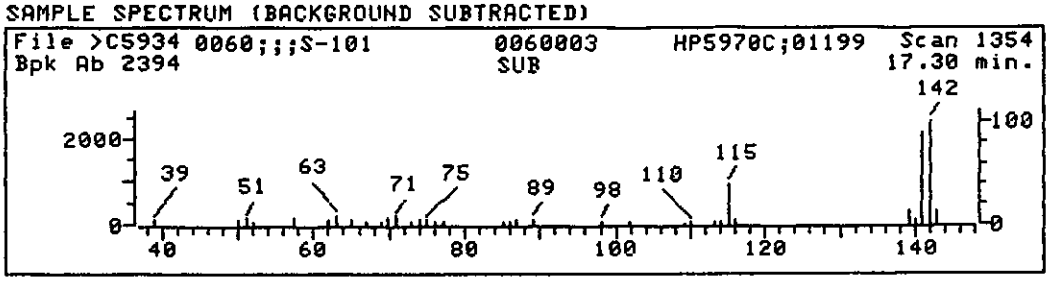
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 27
Compound Name: Naphthalene
Scan Number: 1159
Retention Time: 15.50 min.
Quant Ion: 127.9
Area: 10784
Concentration: 663.91 ug
q-value: 85

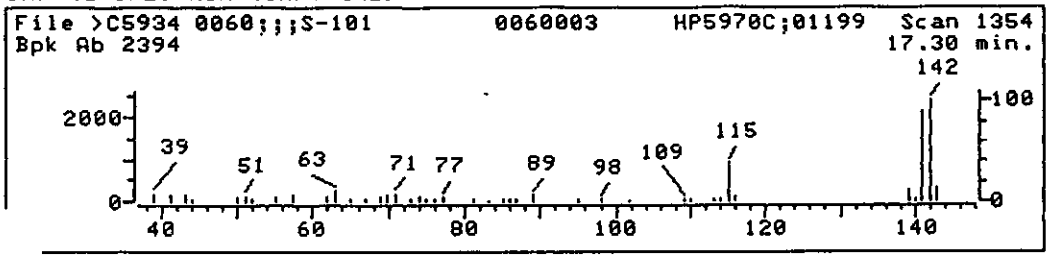
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



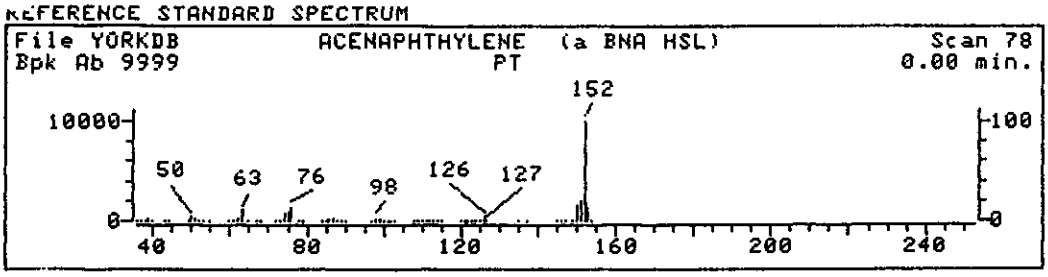
SAMPLE SPECTRUM (UNALTERED)



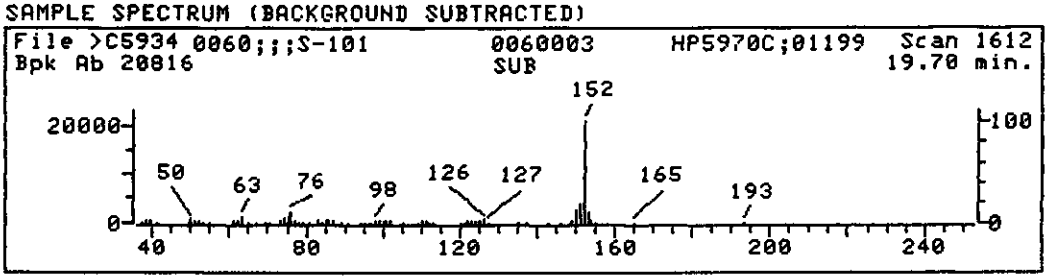
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1354
Retention Time: 17.30 min.
Quant Ion: 141.9
Area: 5274
Concentration: 439.43 ug
q-value: 93

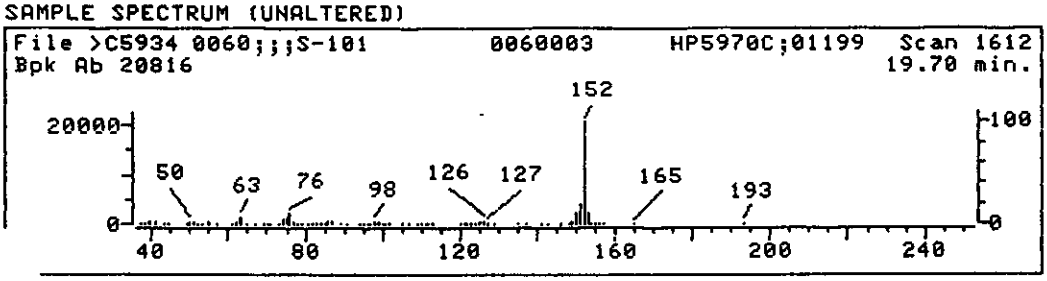
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



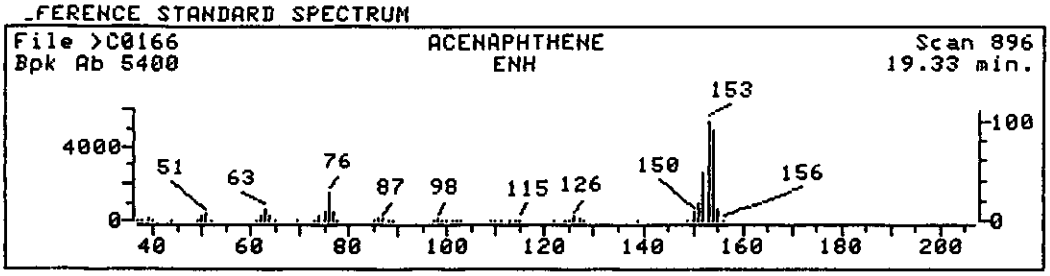
SAMPLE SPECTRUM (UNALTERED)



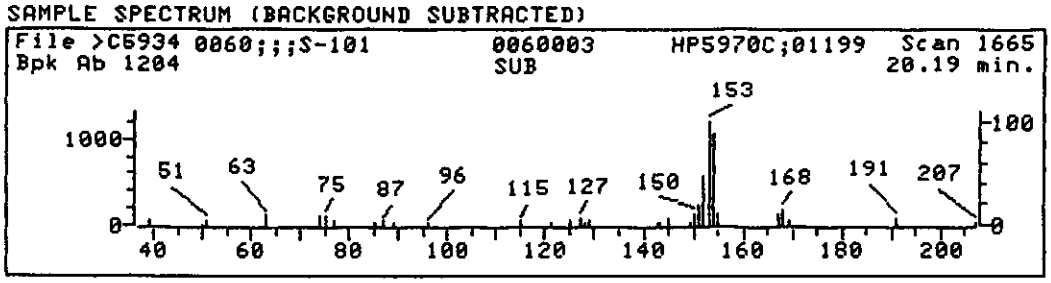
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 40
Compound Name: Acenaphthylene
Scan Number: 1612
Retention Time: 19.70 min.
Quant Ion: 152.0
Area: 52650
Concentration: 3472.47 ug
q-value: 94

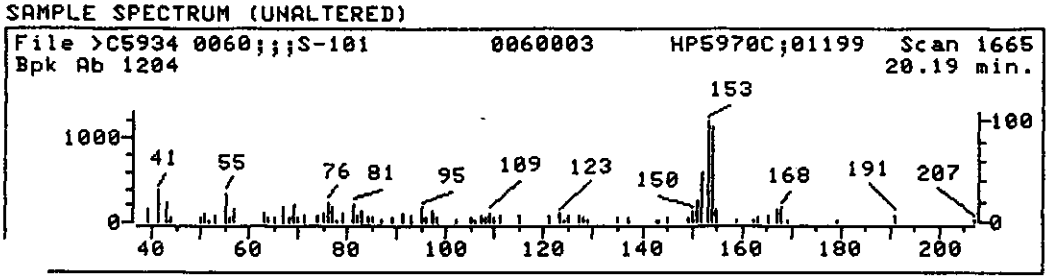
_FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



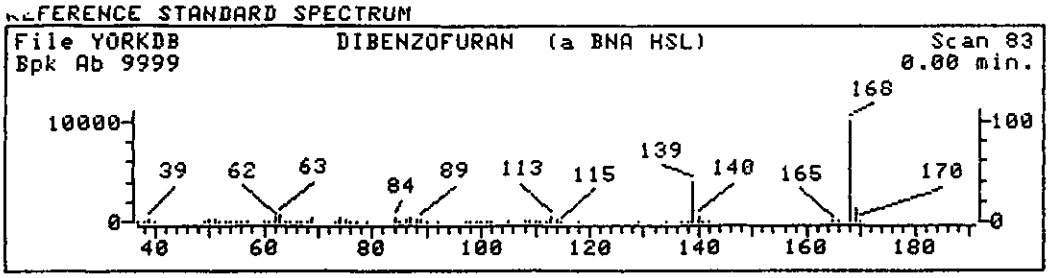
SAMPLE SPECTRUM (UNALTERED)



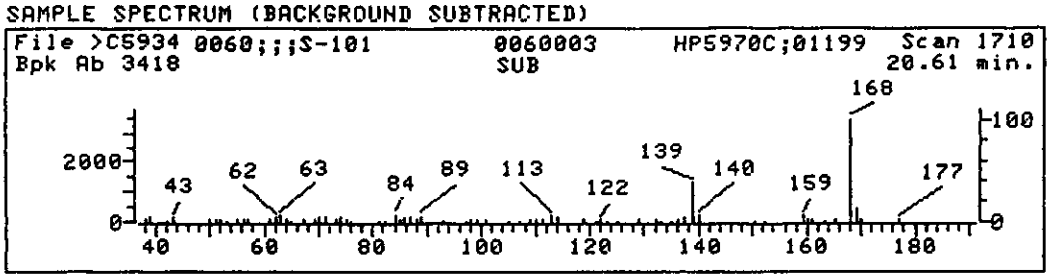
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101 RE
Misc: 0060003 RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 43
Compound Name: Acenaphthene
Scan Number: 1665
Retention Time: 20.19 min.
Quant Ion: 152.9
Area: 3133
Concentration: 290.60 ug
q-value: 99

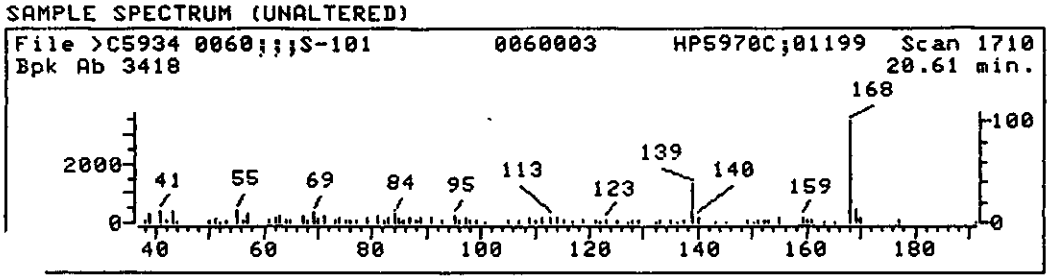
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



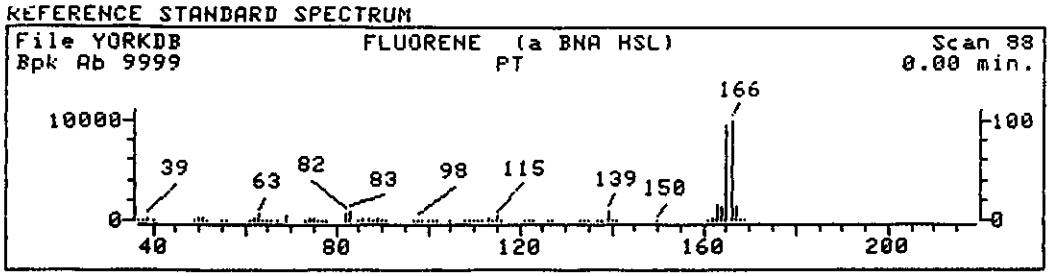
SAMPLE SPECTRUM (UNALTERED)



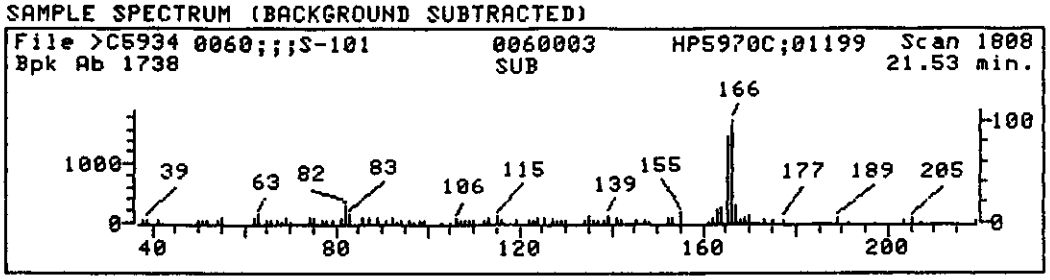
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 46
Compound Name: Dibenzofuran
Scan Number: 1710
Retention Time: 20.61 min.
Quant Ion: 167.8
Area: 9266
Concentration: 599.06 ug
q-value: 93

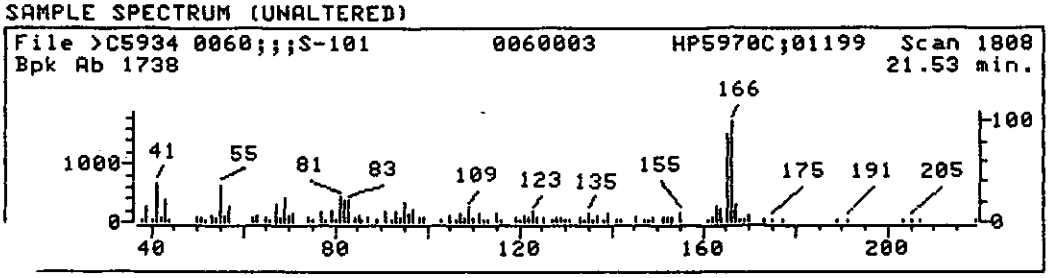
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



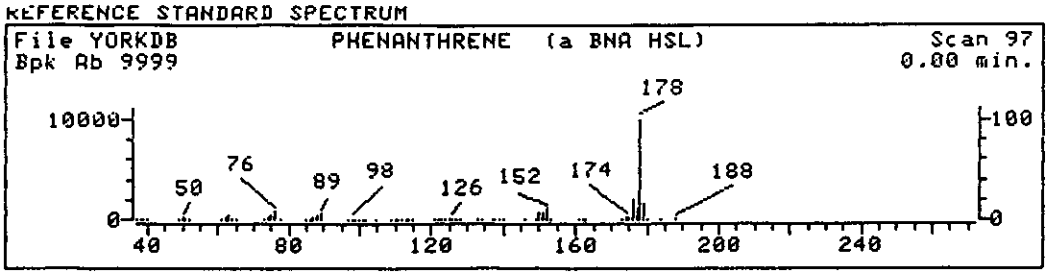
SAMPLE SPECTRUM (UNALTERED)



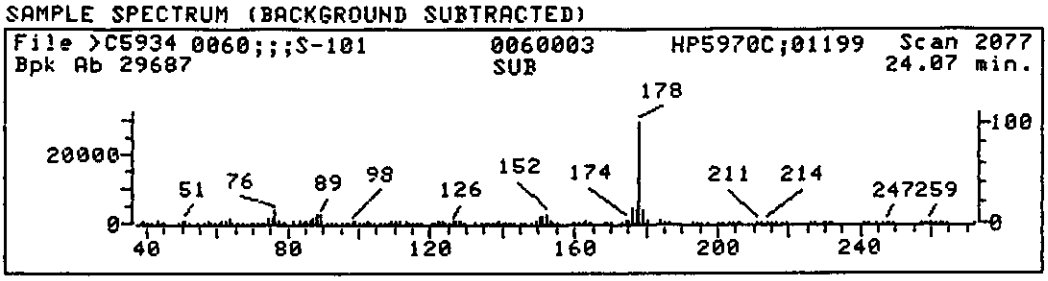
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 50
Compound Name: Fluorene
Scan Number: 1808
Retention Time: 21.53 min.
Quant Ion: 165.9
Area: 6069
Concentration: 597.32 ug
q-value: 94

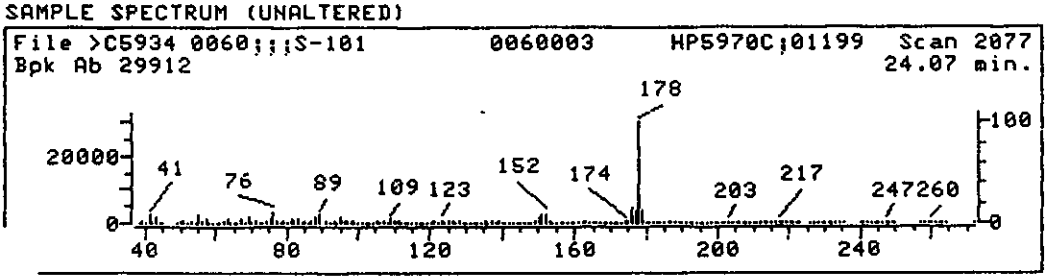
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



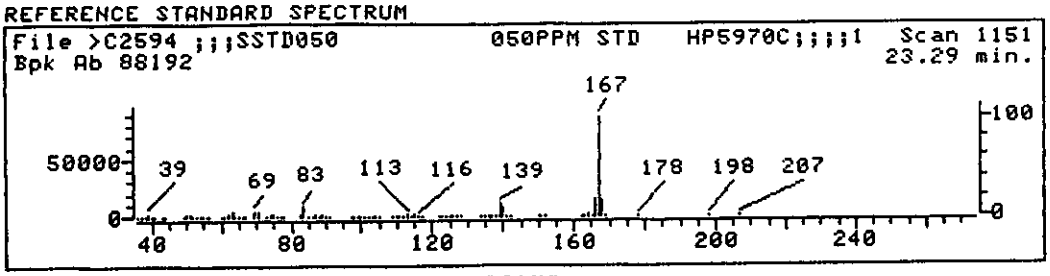
SAMPLE SPECTRUM (UNALTERED)



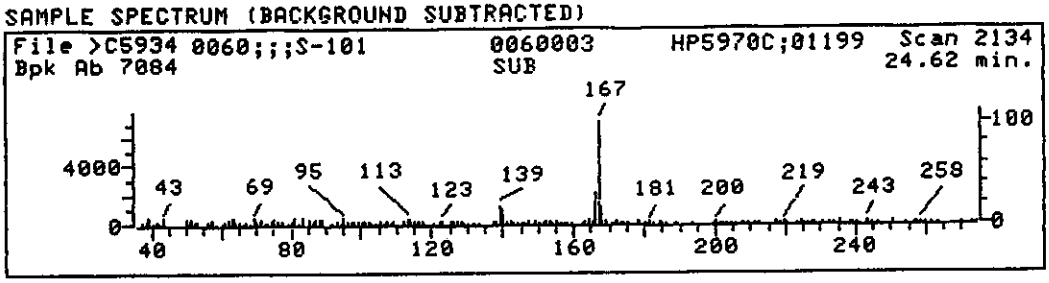
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 59
Compound Name: Phenanthrene
Scan Number: 2077
Retention Time: 24.07 min.
Quant Ion: 177.9
Area: 79587
Concentration: 3569.72 ug
q-value: 95

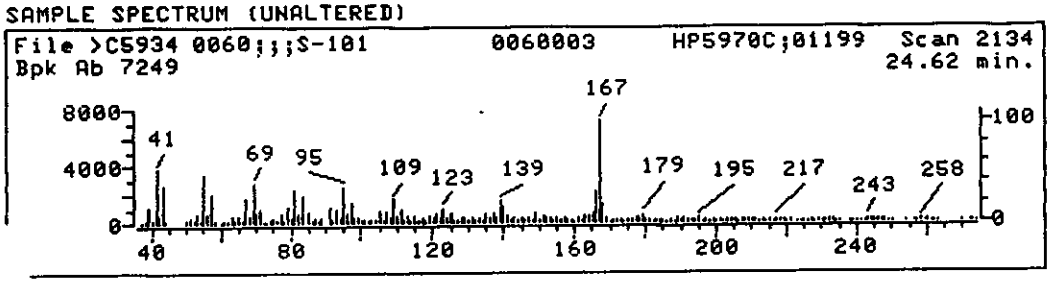
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



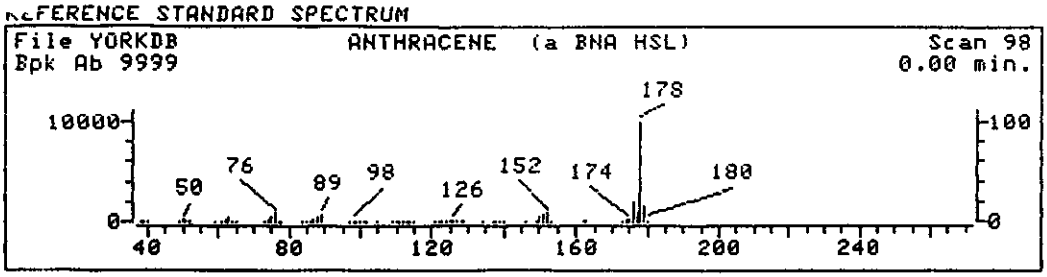
SAMPLE SPECTRUM (UNALTERED)



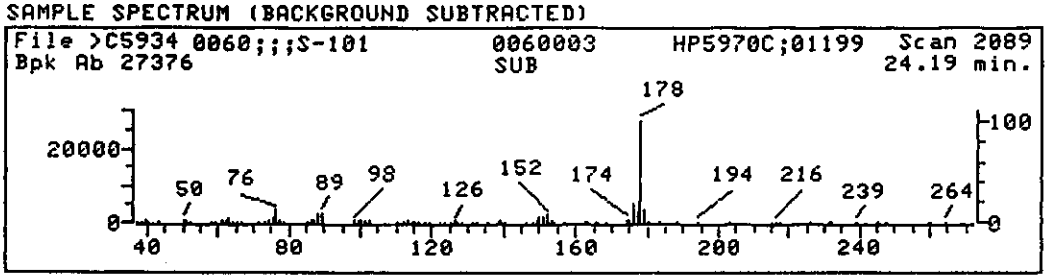
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 60
Compound Name: Carbazole
Scan Number: 2134
Retention Time: 24.62 min.
Quant Ion: 166.8
Area: 21883
Concentration: 2276.64 ug
q-value: 88

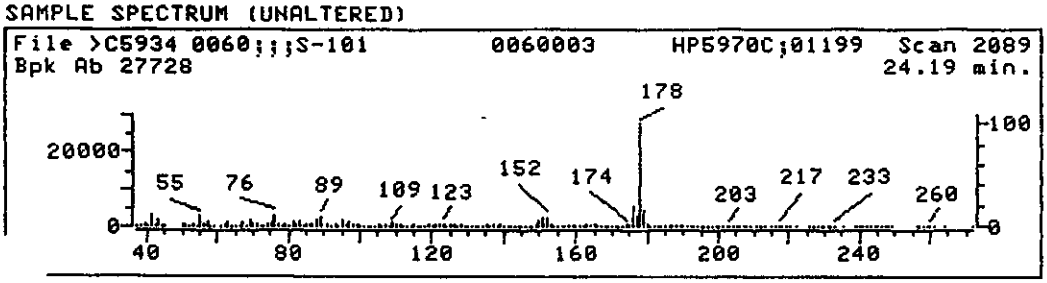
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



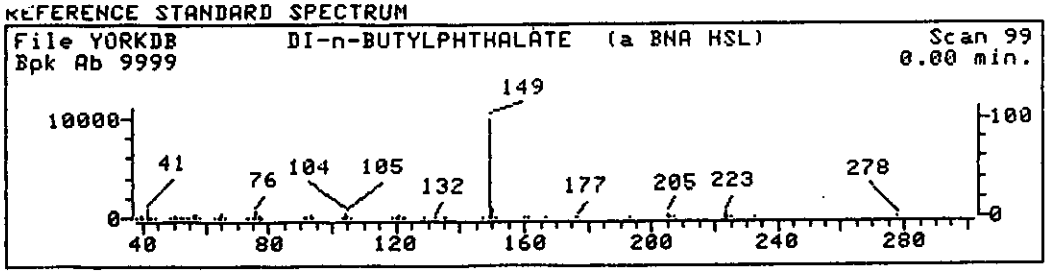
SAMPLE SPECTRUM (UNALTERED)



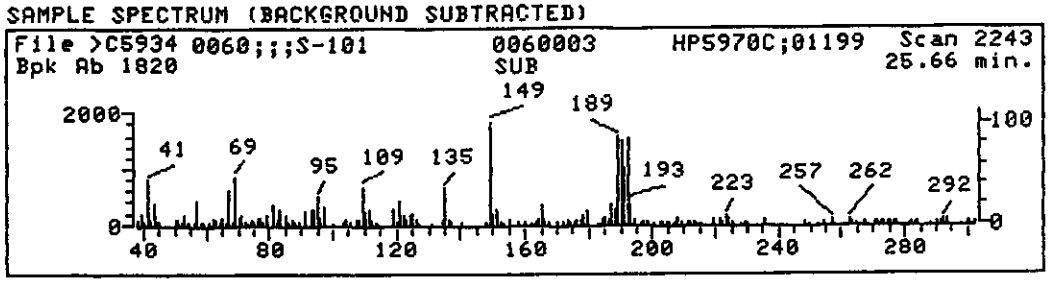
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101 RE
Misc: 0060003 RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 61
Compound Name: Anthracene
Scan Number: 2089
Retention Time: 24.19 min.
Quant Ion: 177.9
Area: 72760
Concentration: 3152.65 ug
q-value: 96

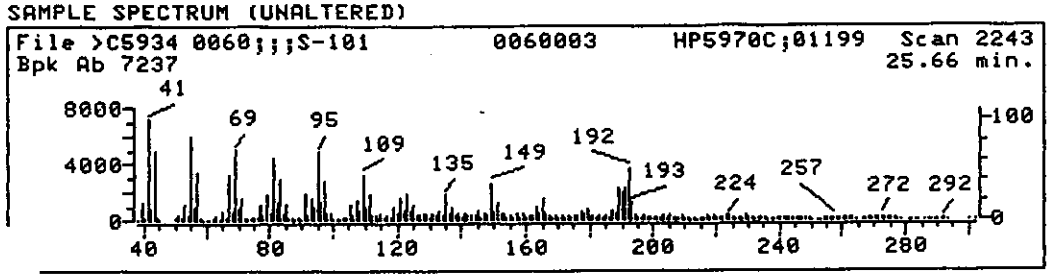
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



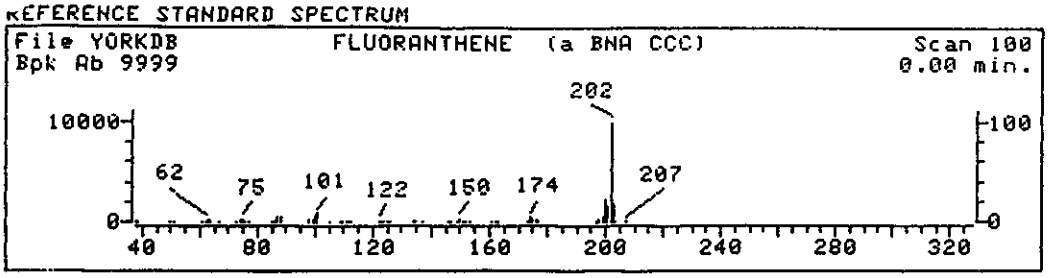
SAMPLE SPECTRUM (UNALTERED)



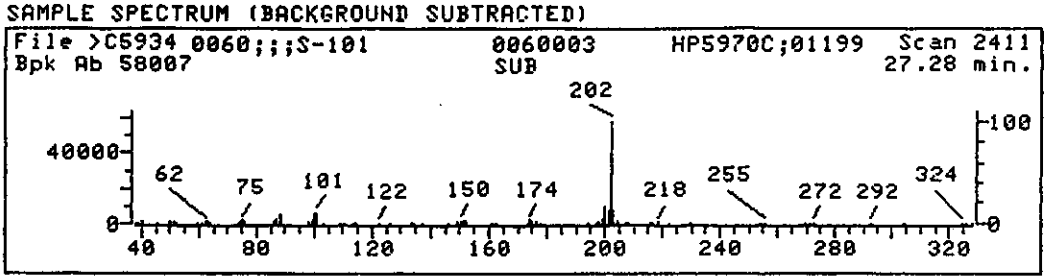
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2243
Retention Time: 25.66 min.
Quant Ion: 148.8
Area: 5400
Concentration: 161.98 ug
q-value: 96

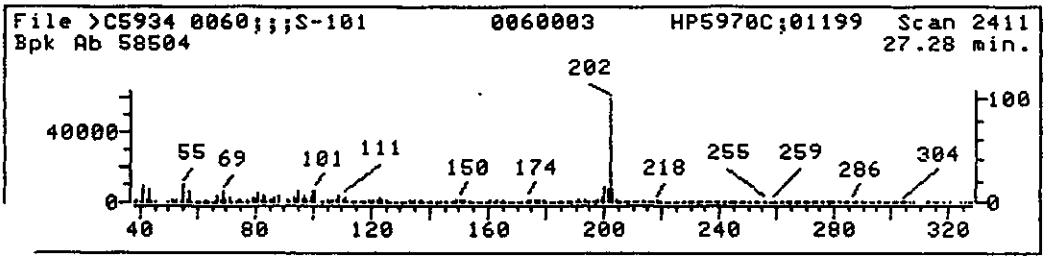
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



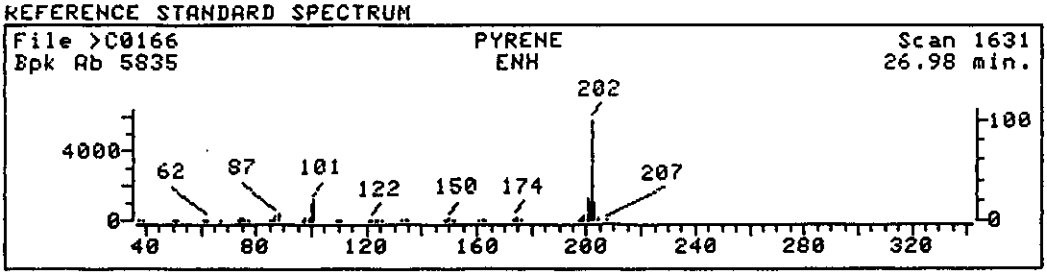
SAMPLE SPECTRUM (UNALTERED)



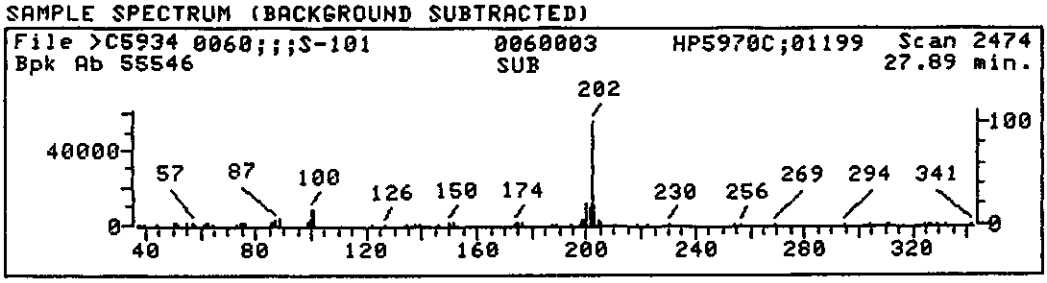
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101
Misc: 0060003 HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 63
Compound Name: Fluoranthene
Scan Number: 2411
Retention Time: 27.28 min.
Quant Ion: 201.9
Area: 172845
Concentration: 6783.63 ug
q-value: 90

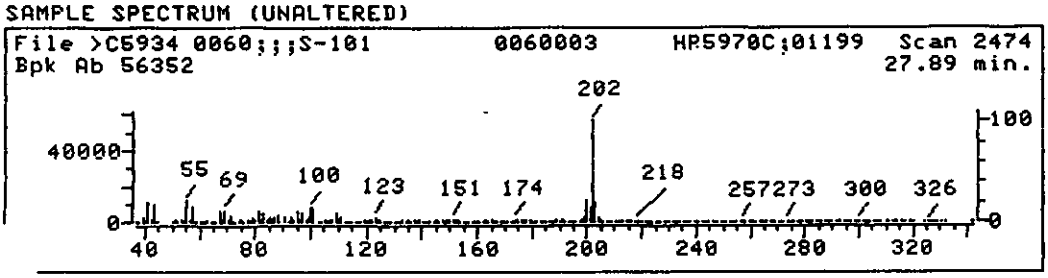
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



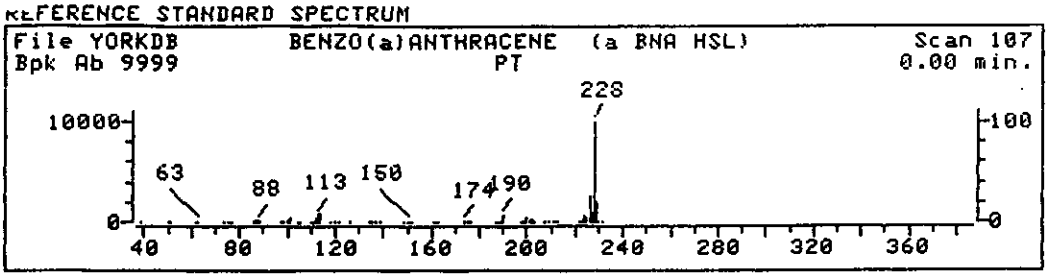
SAMPLE SPECTRUM (UNALTERED)



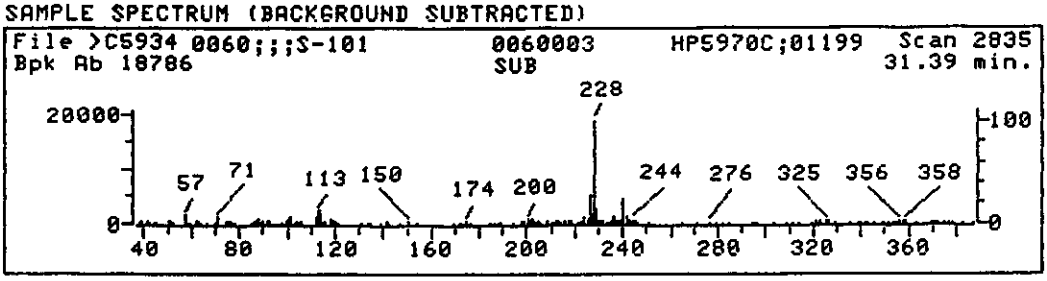
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 65
Compound Name: Pyrene
Scan Number: 2474
Retention Time: 27.89 min.
Quant Ion: 201.9
Area: 181030
Concentration: 7858.47 ug
q-value: 96

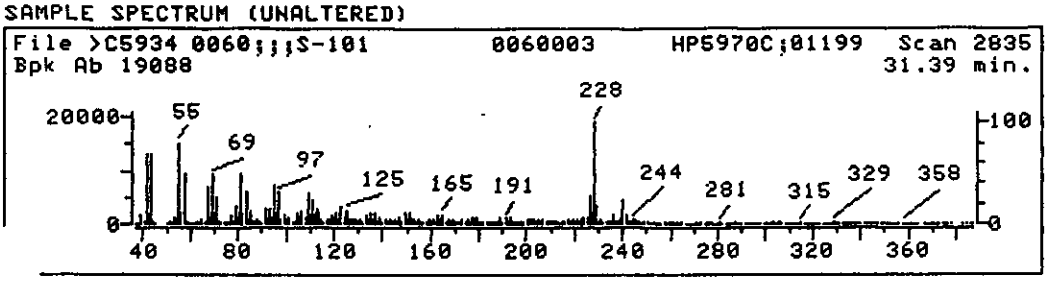
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

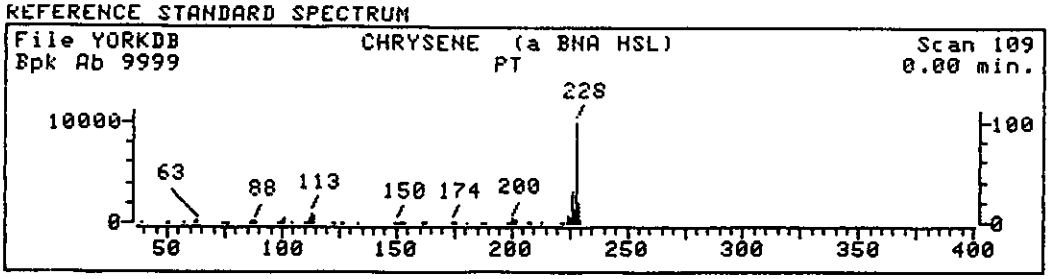


Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

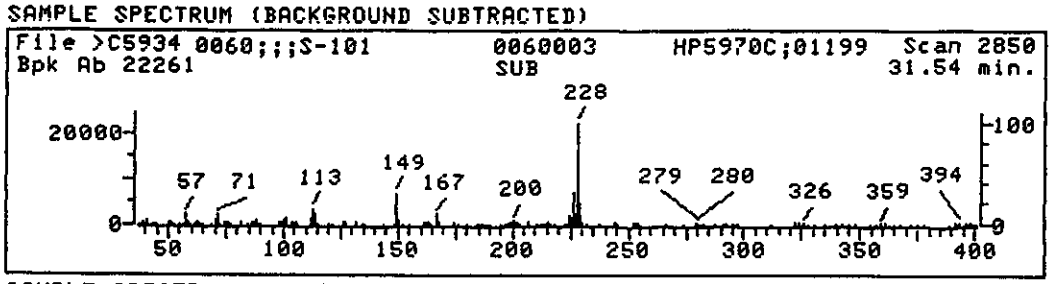
Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2835
Retention Time: 31.39 min.
Quant Ion: 228.0
Area: 81016
Concentration: 4594.91 ug
q-value: 97

0343

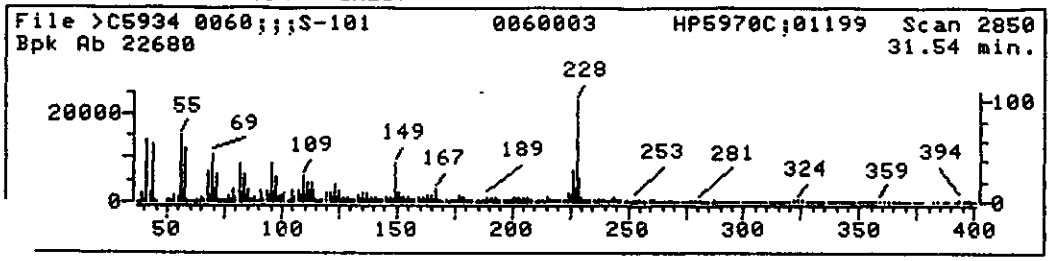
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



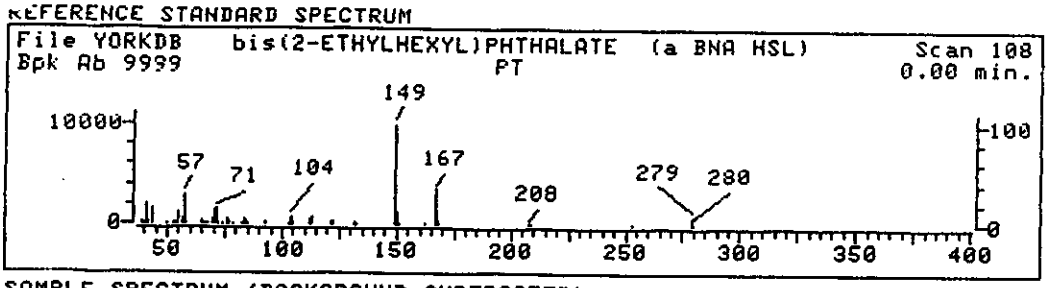
SAMPLE SPECTRUM (UNALTERED)



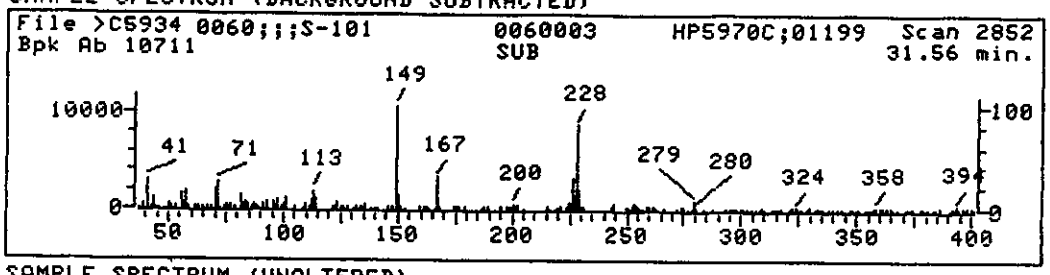
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 70
Compound Name: Chrysene
Scan Number: 2850
Retention Time: 31.54 min.
Quant Ion: 228.0
Area: 94277
Concentration: 6502.13 ug
q-value: 96

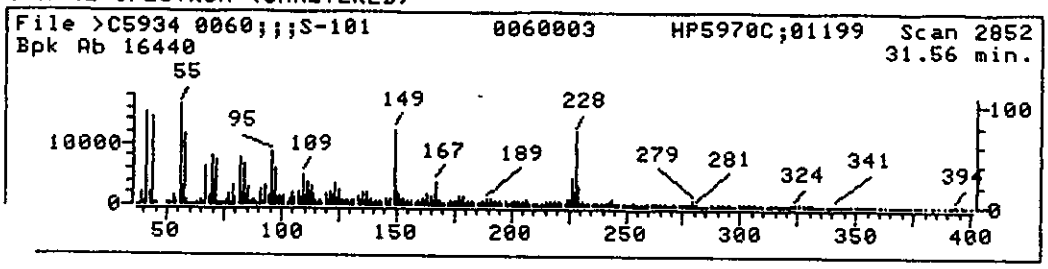
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



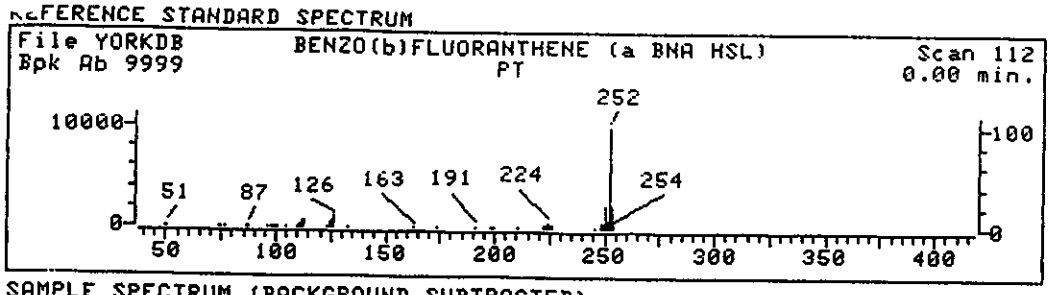
SAMPLE SPECTRUM (UNALTERED)



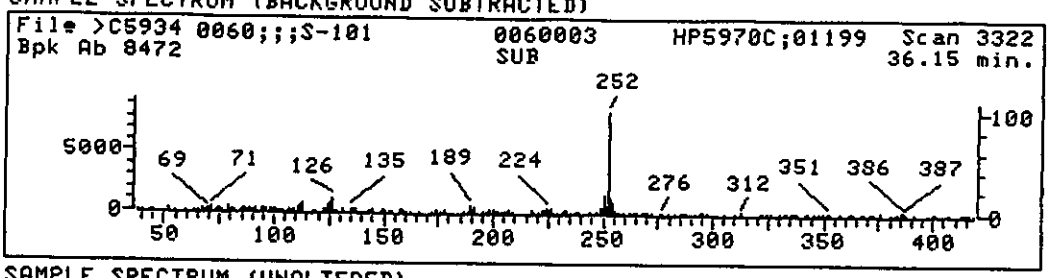
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2852
Retention Time: 31.56 min.
Quant Ion: 148.8
Area: 35799
Concentration: 2370.59 ug
q-value: 85

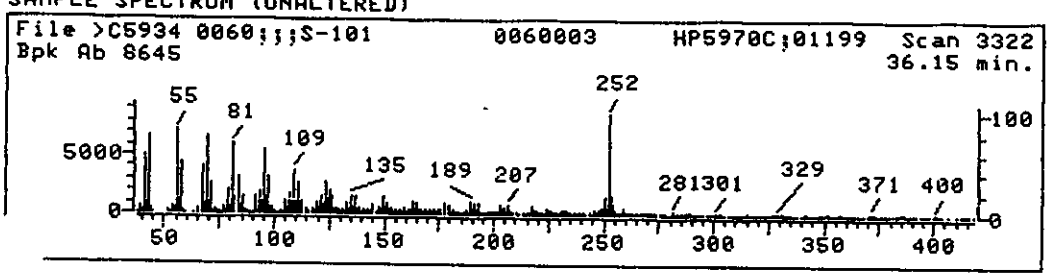
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



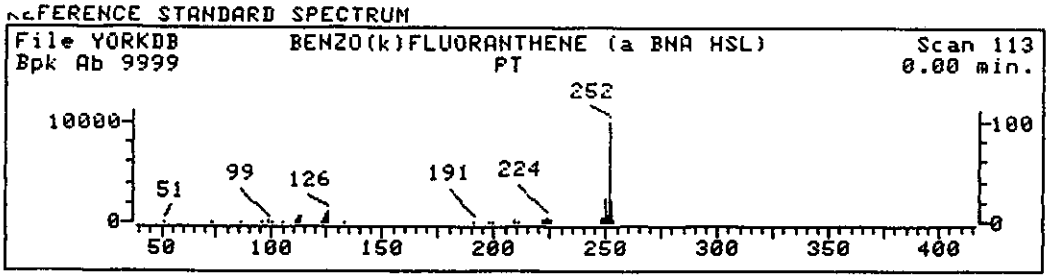
SAMPLE SPECTRUM (UNALTERED)



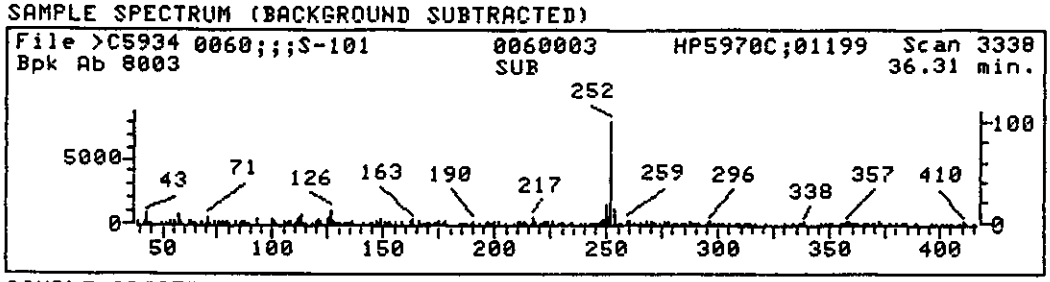
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 74
Compound Name: Benzo(b)fluoranthene
Scan Number: 3322
Retention Time: 36.15 min.
Quant Ion: 252.0
Area: 27633^
Concentration: 3464.65 ug
q-value: 84

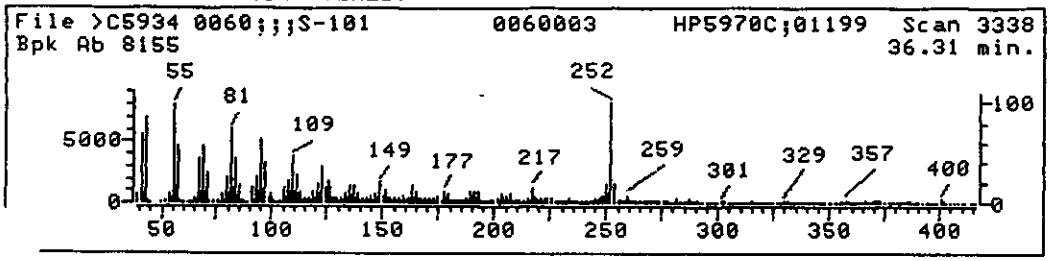
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



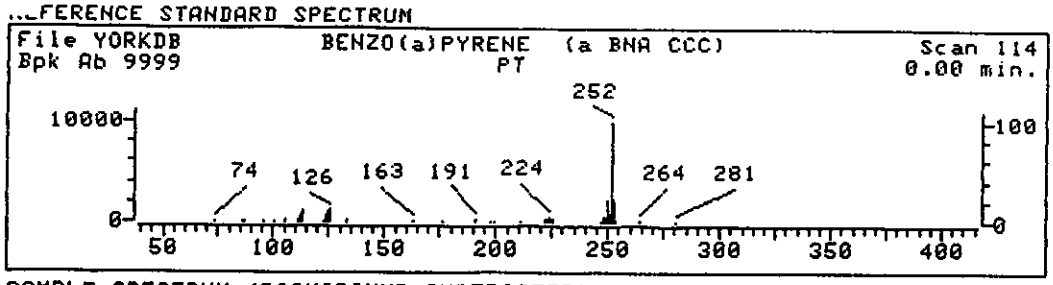
SAMPLE SPECTRUM (UNALTERED)



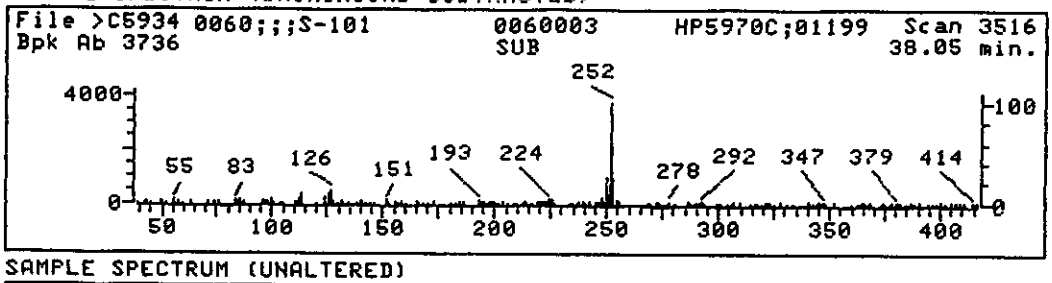
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003 RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 75
Compound Name: Benzo(k)fluoranthene
Scan Number: 3338
Retention Time: 36.31 min.
Quant Ion: 252.0
Area: 26427^
Concentration: 3855.02 ug
q-value: 90

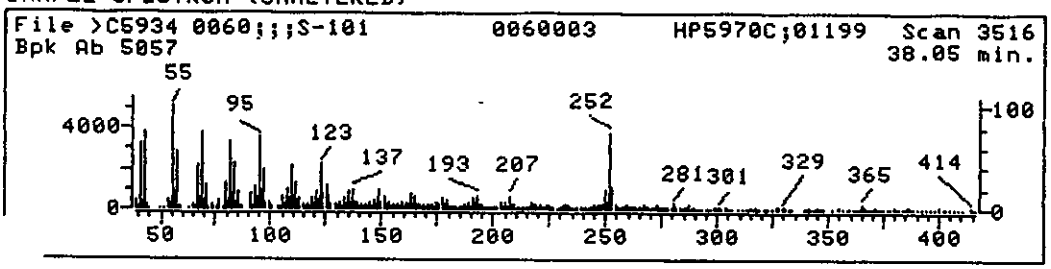
...FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



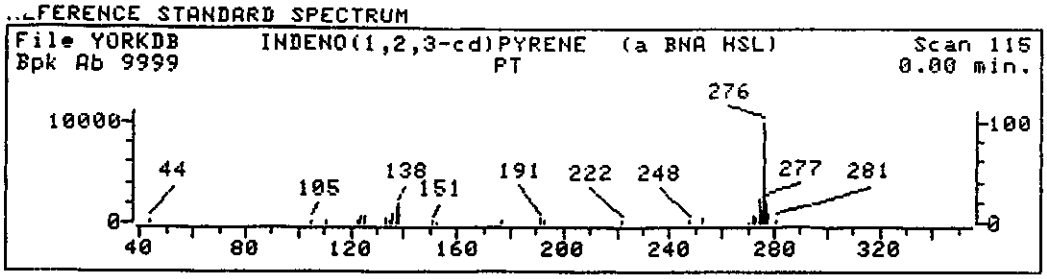
SAMPLE SPECTRUM (UNALTERED)



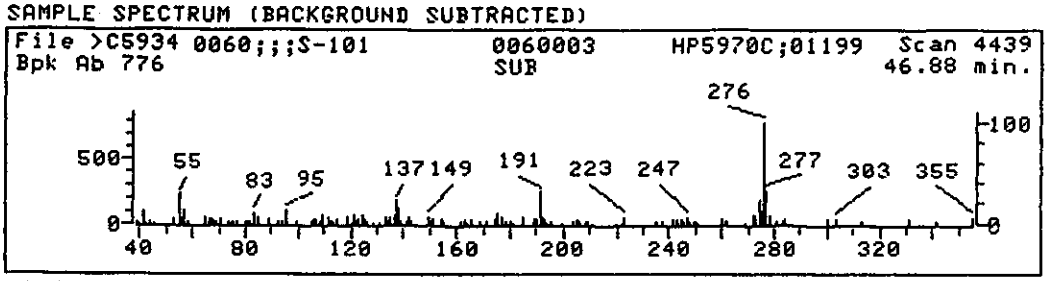
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 76
Compound Name: Benzo(a)pyrene
Scan Number: 3516
Retention Time: 38.05 min.
Quant Ion: 252.0
Area: 25658
Concentration: 4027.68 ug
q-value: 97

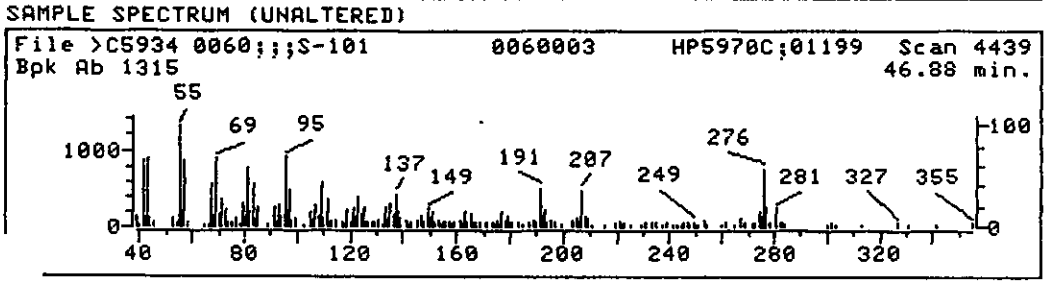
..FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



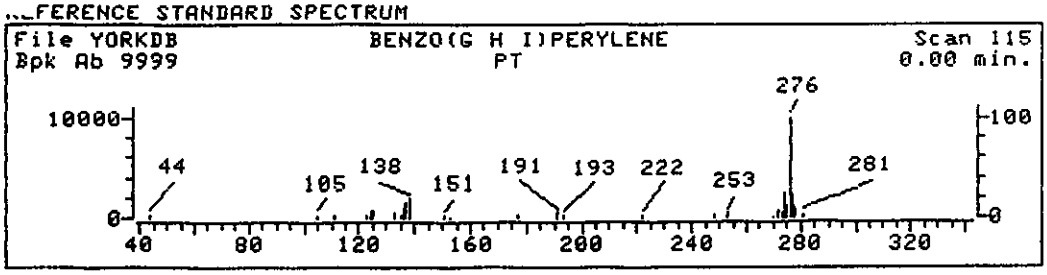
SAMPLE SPECTRUM (UNALTERED)



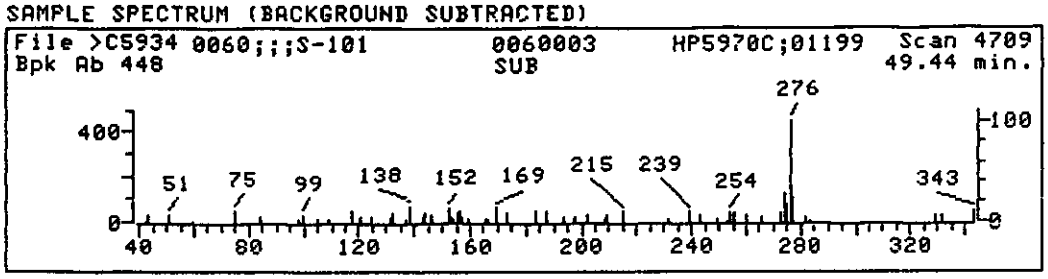
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101 RE
Misc: 0060003 RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4439
Retention Time: 46.88 min.
Quant Ion: 276.0
Area: 5866
Concentration: 1160.21 ug
q-value: 85

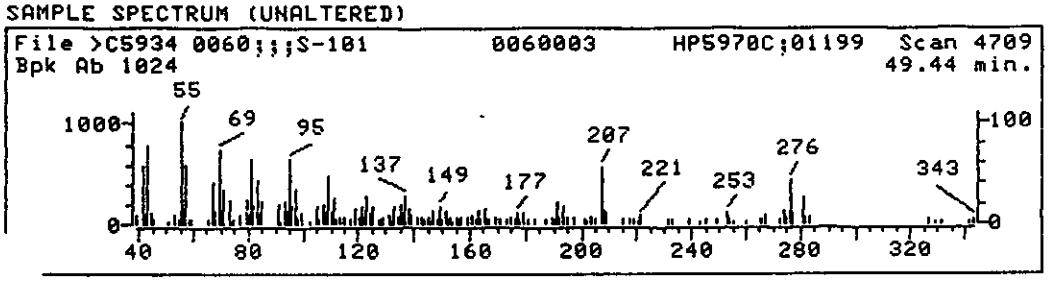
...FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



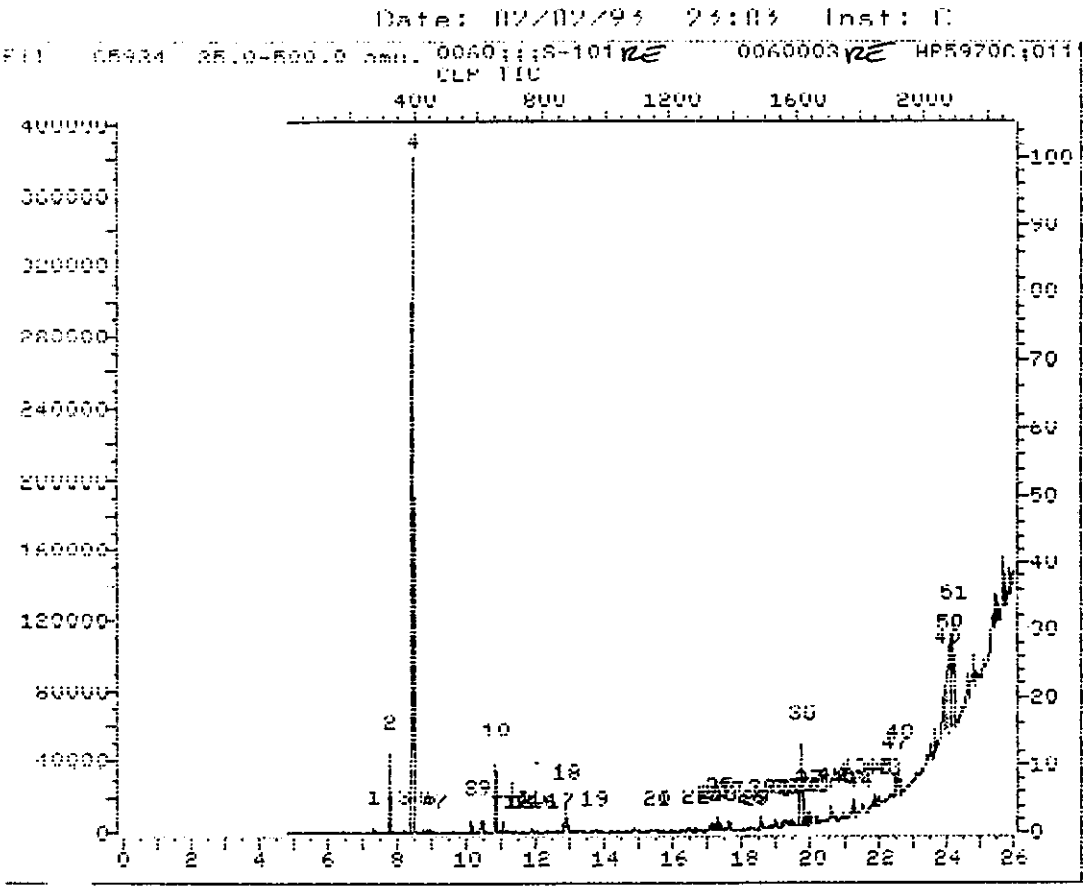
Data File: >C5934::C4 Quant Output File: ^C5934::QT
Name: 0060;;;S-101RE
Misc: 0060003RE HP5970C;011993;012093;LLS;8;;7.3;C0953 BTL#10
Quant Time: 930202 23:58 Quant ID File: I_EPA::N1
Injected at: 930202 23:03 Last Calibration: 930202 15:36

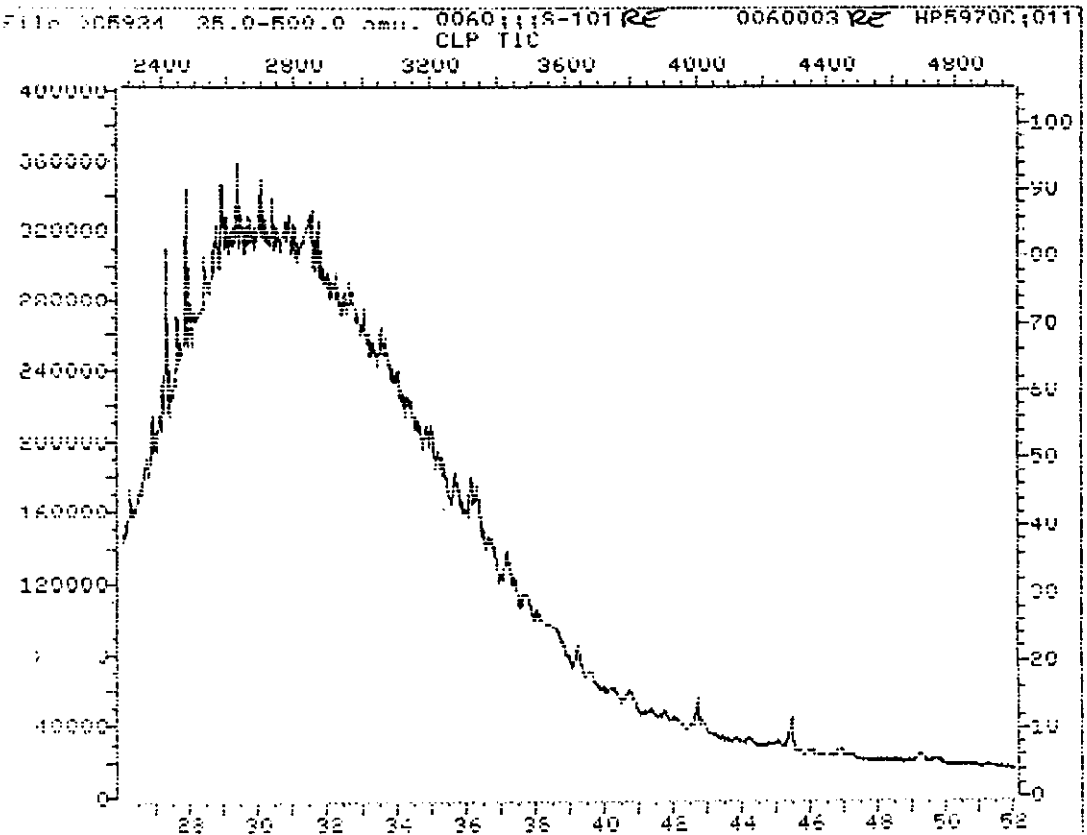
Compound No: 79
Compound Name: Benzo(g,h,i)perylene
Scan Number: 4709
Retention Time: 49.44 min.
Quant Ion: 276.0
Area: 2920
Concentration: 554.37 ug
q-value: 68

MS data file header from : >D5954

Sample: 00601;;;S-1011RE Operator: MSD MS 2/02/93 23:03
Misc : 00A00003RE HP5972D;011993;012093;LLS;8;;2.3;D0953 RTL #10
Sys. #: 1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M D Tuning file: T D No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


Date: 02/02/95 24:05 Inst: C
CLP TIC
400 800 1200 1600 2000
0 2 4 6 8 10 12 14 16 18 20 22 24 26


CLP TIC
2400 2800 3200 3600 4000 4400 4800
28 30 32 34 36 38 40 42 44 46 48 50 52

S101RE
HP5970C
0352

Date: 02/02/93 23:03 Inst: C

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF	
4.	8.43	1550469.	61000.	1.	155.0	
2.	7.75	94952.	3700.	1.	155.0	
11.	11.81	72474.	3000.	1.	155.0	
18.	12.86	36782.	1400.	1.	155.0	...
9.	11.44	33679.	1300.	1.	155.0	
48.	22.57	39273.	690.	4.	155.0	

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLORIBENZENE-D4	12.19	157299.	0.00	13.82	6.1
NAPHTHALENE-D8	15.45	234243.	13.82	17.78	2.2
ACENAPHTHENE-D10	20.11	309049.	17.78	22.06	4.8
PHENANTHRENE-D10	24.02	352693.	22.06	27.71	2.5
CHRYSENE-D12	31.41	123037.	27.71	34.88	1.2
PERYLENE-D12	38.34	47022.	34.88	49.44	1.3

ISTD peaks found: 6
Surrogate peaks found: 7
No. of target peaks expected: 28
Target peaks matched: 6
Total TIC identified: 6

TICS : 1:31 AM FRI., 5 FEB., 1993

RPN' 0005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

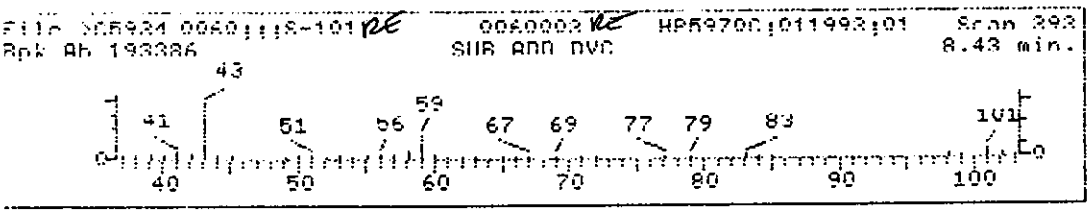
0353

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5934 Spectrum #: 393

No data base entries were retrieved.

Peak#: 4 Area: 15511469. Est Conc: 61000. Date: 02/02/93 23:03 Inst: C



RPN error for command: RSF63
RPN error: -5
Bad record length RSF

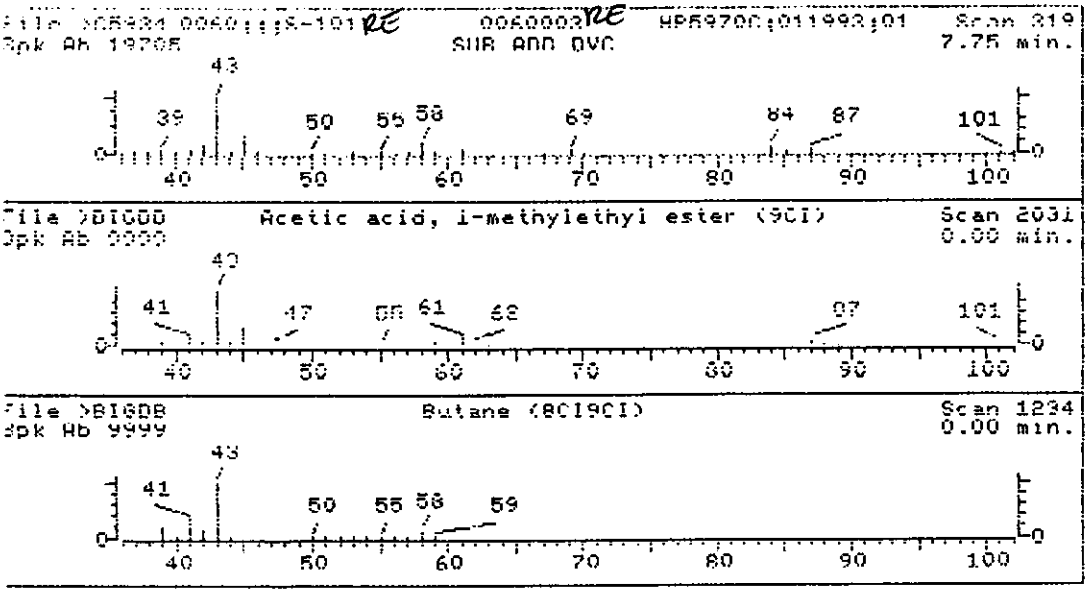
0354

1. Acetic acid, 1-methylethyl ester (91CI) 102 C5H10O2
2. Butane (8CI,9CI) 58-C4H10

Sample File: >C5934 Spectrum #: 319
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	COIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	R	IV
1.	60	108214	2031	"RIGDB	48	31	1	0	66	14	30	18	
V.	30*	106978	1234	"RIGDB	23	56	2	0	100	33	12	13	

Peak#: 2 Area: 94252. Est Conc: 3200. Date: 02/02/93 23:03 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
th un string or have forgotten the order of the run string.

0355

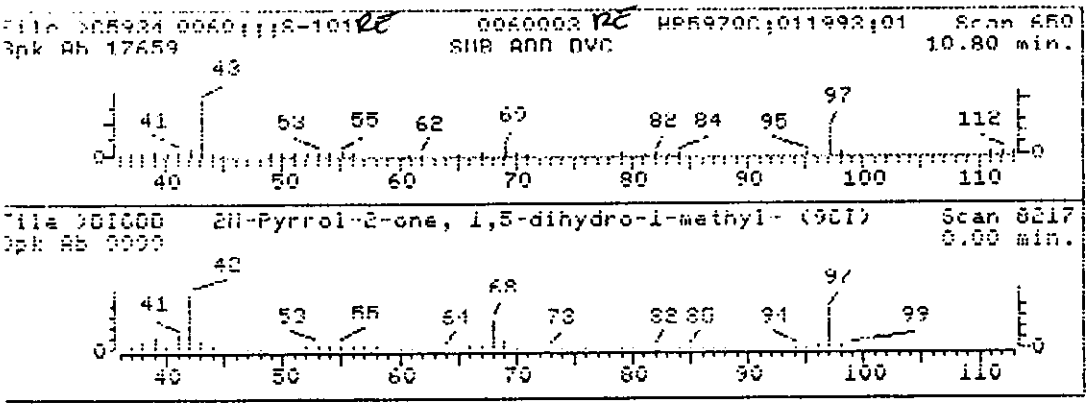
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. 2H-Pyrrol-2-one, 1,5-dihydro-1-methyl- (9CI) 92 C5H7NO

Sample file: >C5934 Spectrum #: 650
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IU
1.	11*	13958215	8217	"RIGOR	22	64	3	0	62	61	2			13

Peak#: 10 Area: 77424. Est Conc: 3000. Date: 02/02/93 23:03 Inst: C

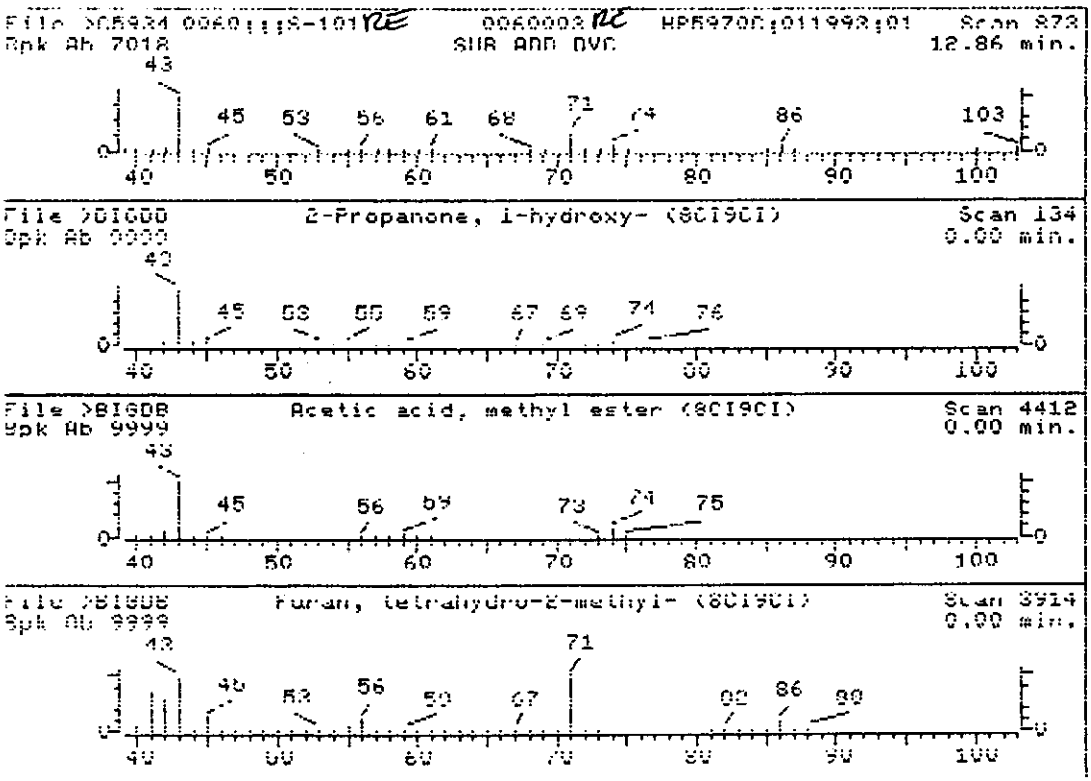


1. 2-Propanone, 1-hydroxy- (8CI9CI) 74 C3H6O2
2. Acetic acid, methyl ester (8CI9CI) 74 C3H6O2
3. Furan, tetrahydro-2-methyl- (8CI9CI) 86 C5H10O

Sample File: >C5934 Spectrum #: 873
Search speed: 3 Tilting option: S No. of ion ranges searched: 60

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	33*	116096	134	"BIGDB	23	60	0	0	25	32	12		16	
2.	31*	79219	4412	"BIGDB	21	40	1	0	20	32	12		14	
3.	11*	96429	3914	"BIGDB	29	60	2	0	31	64	2		14	

Peak#: 18 Area: 36282. Est Conc: 1400. Date: 02/02/93 23:03 Inst: C



RPN 0005

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

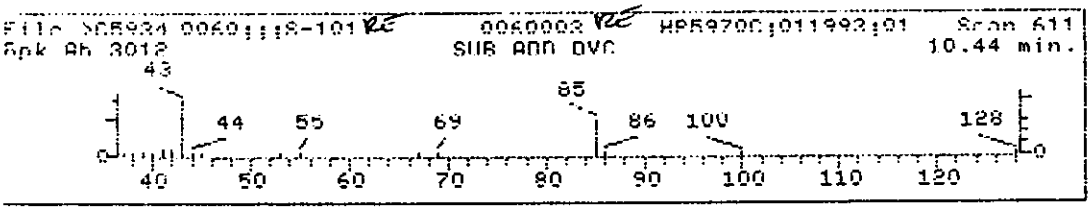
0357

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5934 Spectrum #: 611

No data base entries were retrieved.

Peak#: 9 Area: 33679. Est Conc: 1300. Date: 02/02/93 23:03 Inst: C



ad record length RMF

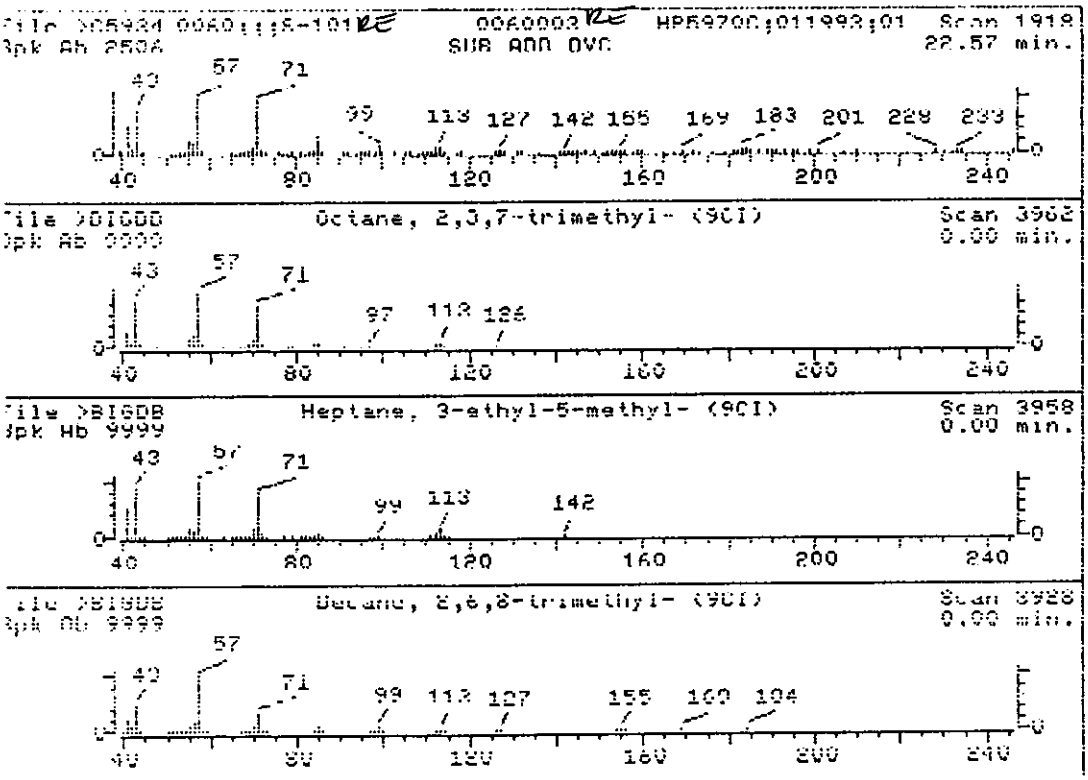
0358

1. Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
2. Heptane, 3-ethyl-5-methyl- (9CI)	142	C10H22
3. Decane, 2,6,8-trimethyl- (9CI)	184	C13H28
4. Dodecane, 2,7,10-trimethyl- (9CI)	212	C15H32

Sample File: >C5934 Spectrum #: 1918
Search speed: 3 Tilting option: S No. of ion ranges searched: 84

	Prob.	CAS #	CIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	21	62016346	3962	"RIGDB	75	18	0	0	91	30	29	66		
2.	21*	52896909	3958	"RIGDB	69	25	1	0	87	31	29	67		
3.	20*	62108263	3928	"RIGDB	47	45	3	0	299	10	42	19		
4.	66	74645980	3988	"RIGDB	87	22	1	0	100	16	31	48		

Peak#: 48 Area: 39223. Est Conc: 690. Date: 02/02/93 23:03 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0359

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

cmc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380 ~~12~~	J U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	260	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380 ~~8~~	J U
208-96-8	Acenaphthylene	600	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	45	J

cmc 2/12/93

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract: 0360

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	210	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	41	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	680	
120-12-7	Anthracene	370	J
86-74-8	Carbazole	200	J
84-74-2	Di-n-butylphthalate	49	JB
206-44-0	Fluoranthene	260	J
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	690	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	860	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	770	
53-70-3	Dibenz(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	670	

1F

EPA SAMPLE NO.

S-102

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: IEA/CT Contract: 0361

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

cmc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

cmc 2/12/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.59	12000	JAB
2.		UNKNOWN	7.88	1600	JB
3.			8.02	1100	
4.			6.91	1000	
5.			13.00	890	
6.			10.54	660	
7.			10.24	500	
8.			12.91	330	
9.		UNKNOWN HYDROCARBON	7.37	320	
10.		UNKNOWN MW 192	17.40	220	
11.			17.68	220	
12.		UNKNOWN	11.12	190	
13.			13.96	190	
14.			12.12	150	
15.		UNKNOWN ALKANE	20.01	150	
16.			18.62	140	
17.			8.29	140	
18.		UNKNOWN DIMETHYL NAPHTHALENE isO.	19.30	130	
19.		UNKNOWN	16.52	110	
20.			13.38	110	
21.			10.47	110	
22.			~~20.80~~		
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930129 19:13
Output File: ^C5908::QT Injected at: 930129 18:19
Data File: >C5908::C5 Dilution Factor: 18.94000
Name: 0060;;;S-102
Misc: 0060004 HP5970C;011993;012093;LLW;1;;;C0951 BTL# 8

0362

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

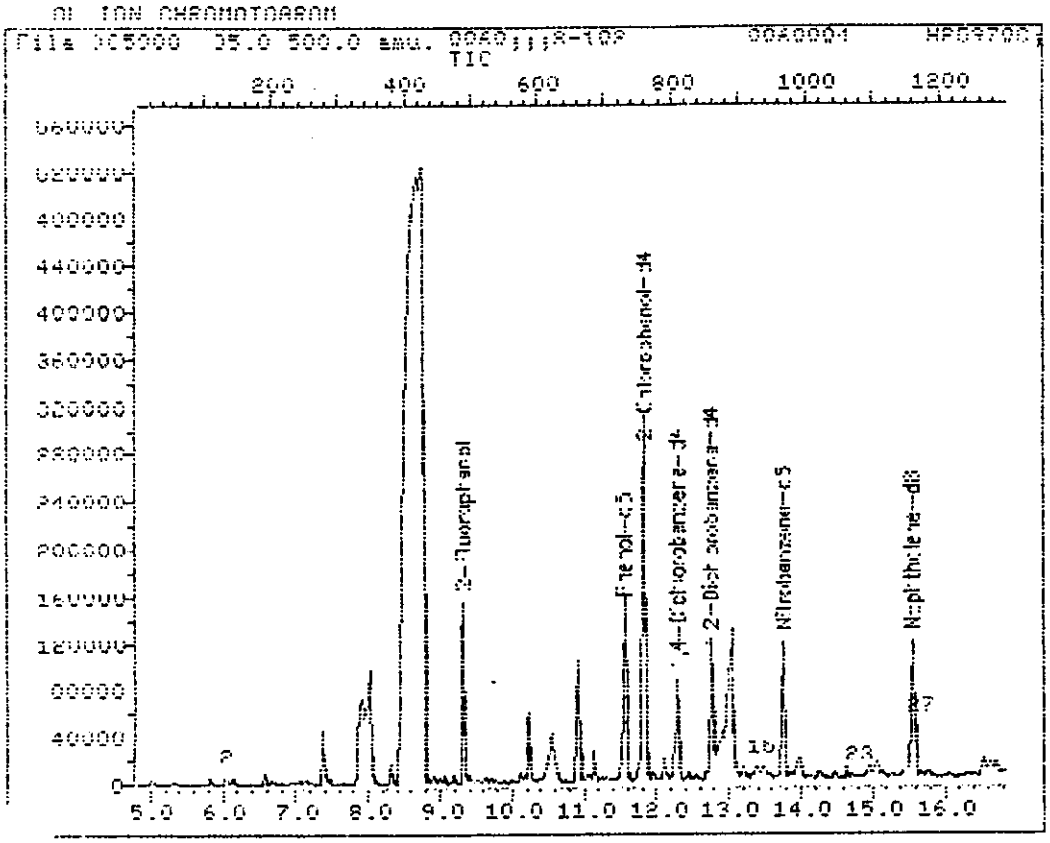
JMC 2/9/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.29	151.8	29163	40.00	ug	88
2)	Pyridine	6.01	52.0	5163	95.10	ug	91
3)	2-Chlorophenol-d4	11.83	132.0	82752	1712.86	ug	95
4)	2-Fluorophenol	9.32	111.8	77273	1580.17	ug	86
5)	Phenol-d5	11.54	98.8	129750	2068.96	ug	84
6)	Phenol	11.58	93.9	1806^	27.70	ug	60
10)	1,4-Dichlorobenzene	12.32	145.7	354	6.34	ug	82
11)	1,2-Dichlorobenzene-d4	12.75	152.0	36563	1018.59	ug	95
15)	4-Methylphenol	13.39	107.8	1158	23.88	ug	60
18)	*Naphthalene-d8	15.55	135.9	126456	40.00	ug	99
19)	Nitrobenzene-d5	13.76	81.8	86372	1215.81	ug	91
20)	2,4-Dimethylphenol	14.73	106.8	792	12.30	ug	96
21)	Naphthalene	15.60	127.9	42601	256.44	ug	86
30)	4-Chloro-3-methylphenol	17.07	106.9	285	3.25	ug	95
31)	2-Methylnaphthalene	17.40	141.9	22791	193.76	ug	64
32)	*Acenaphthene-d10	20.22	163.9	78307	40.00	ug	86
36)	2-Fluorobiphenyl	18.42	171.8	182425	1479.35	ug	95
37)	2-Chloronaphthalene	18.84	161.8	398^	3.98	ug	91
39)	Dimethylphthalate	19.58	162.8	1164	7.96	ug	94
40)	Acenaphthylene	19.82	152.0	100729	595.27	ug	96
41)	2,6-Dinitrotoluene	19.77	164.8	798^	25.47	ug	72
43)	Acenaphthene	20.30	152.9	4818	44.74	ug	90
46)	Dibenzofuran	20.71	167.8	31446	214.60	ug	90
47)	2,4-Dinitrotoluene	20.99	164.8	340	6.89	ug	88
48)	Diethylphthalate	21.46	148.8	6148	40.61	ug	92
50)	Fluorene	21.95	165.9	3850	36.67	ug	70
52)	2,4,6-Tribromophenol	22.36	329.6	82252	2898.89	ug	94
53)	*Phenanthrene-d10	24.15	187.9	95249	40.00	ug	95
55)	N-Nitrosodiphenylamine (1)	21.79	168.9	533^	10.54	ug	80
56)	4-Bromophenyl-phenylether	23.19	247.9	264	8.96	ug	55
58)	Pentachlorophenol	23.83	265.6	307	13.05	ug	79
59)	Phenanthrene	24.22	177.9	83652	684.37	ug	99
60)	Carbazole	24.76	166.8	12997	196.96	ug	96
61)	Anthracene	24.34	177.9	47250	372.49	ug	98
62)	Di-n-butylphthalate	25.82	148.8	8662	48.96	ug	91
63)	Fluoranthene	27.49	201.9	36474	262.36	ug	94
64)	*Chrysene-d12	31.56	240.0	12601M	40.00	ug	95
65)	Pyrene	27.93	201.9	542	24.52	ug	94
66)	Terphenyl-d14	28.47	244.0	43329	2567.09	ug	99
67)	Butylbenzylphthalate	29.77	148.8	1214	104.91	ug	97
68)	3,3'-Dichlorobenzidine	31.18	251.9	451^	164.26	ug	74
69)	Benzo(a)anthracene	31.52	228.0	13154	690.28	ug	97
70)	Chrysene	31.65	228.0	22888	1466.25	ug	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
~~71)~~	~~bis(2-Ethylhexyl)phthalate~~	~~31.67~~	~~148.8~~	~~4831~~	~~329.48~~	ug	~~62~~
72)	*Perylene-d12	38.64	264.0	8811M	40.00	ug	99
~~73)~~	~~Di-n-octylphthalate~~	~~33.82~~	~~148.9~~	~~1854~~	~~48.19~~	ug	~~93~~
74)	Benzo(b)fluoranthene	36.33	252.0	15664^	1161.04	ug	92
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.36~~	~~252.0~~	~~11584~~	~~858.65~~	ug	~~57~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.33~~	~~252.0~~	~~15664^~~	~~1163.57~~	ug	~~93~~
75)	Benzo(k)fluoranthene	36.36	252.0	11584	860.50	ug	58
76)	Benzo(a)pyrene	37.97	252.0	26507	2095.40	ug	95
77)	Indeno(1,2,3-cd)pyrene	47.34	276.0	5529^	774.66	ug	96
78)	Dibenz(a,h)anthracene	47.63	278.0	1784	249.20	ug	96
79)	Benzo(g,h,i)perylene	50.07	276.0	4432	666.74	ug	68

* Compound is ISTD

Conc 2/9/98



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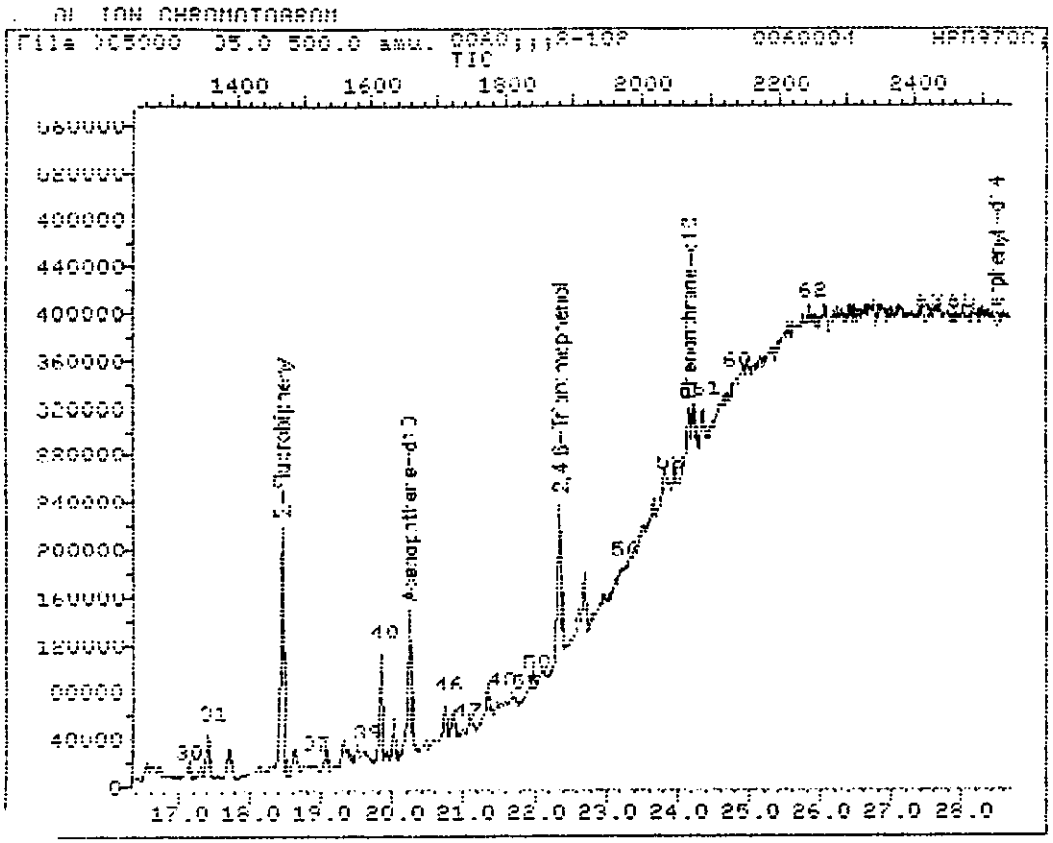
Name: 00A0];;;S-102
Misc: 00A00004 HP5972DC;011993;012093;LLW;1;;;DD951 RTL# 8

Id File: I EPA::N1
Title: DLP-LLM01.8 RNA COMPOUNDS
Last Calibration: 930129 11:17

Operator ID: MSD
Quant Time: 930129 19:13
Injected at: 930129 18:19

TIC page 1 of 4

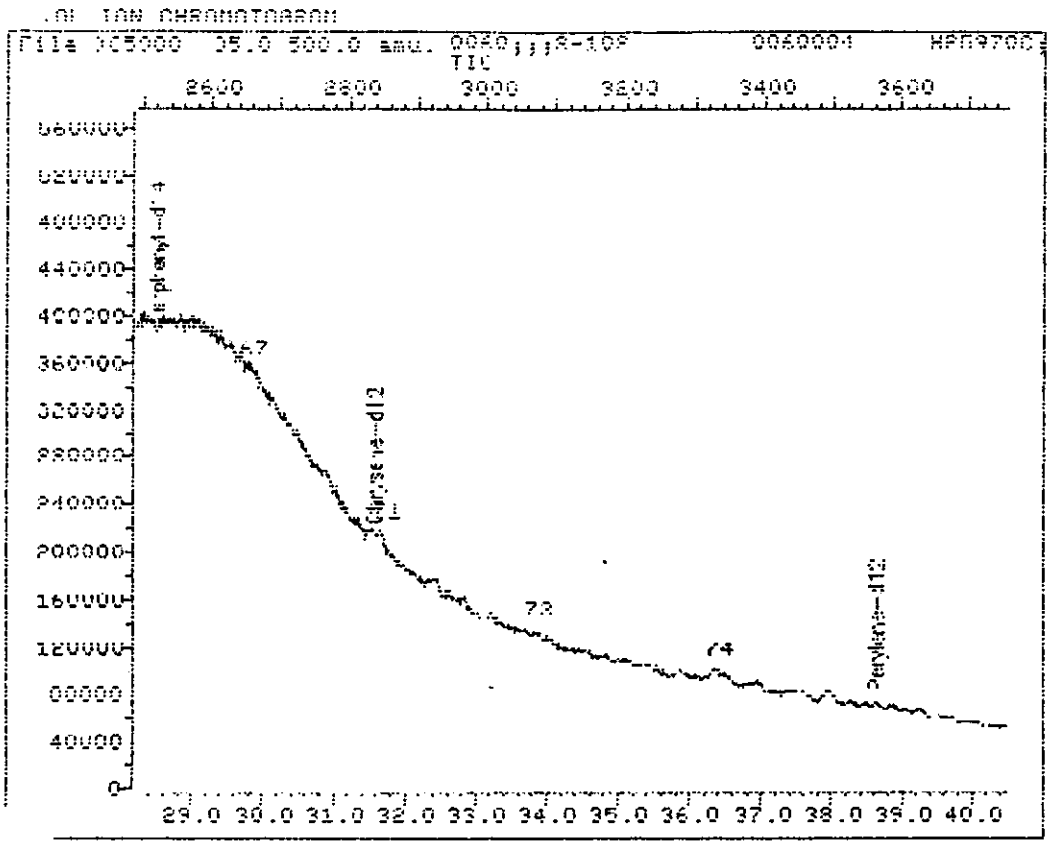


Data File: >C59108::C5 Quant Output File: ^C59108::N1
Name: 00611;;;S-102
Misc: 00600004 HP5972C;011993;012093;LLW;1;;;C0951 BTL# 8

Id File: I EPA::N1
Title: C P-II M01.8 RNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 19:13
Injected at: 930129 18:19

TIC page 2 of 4

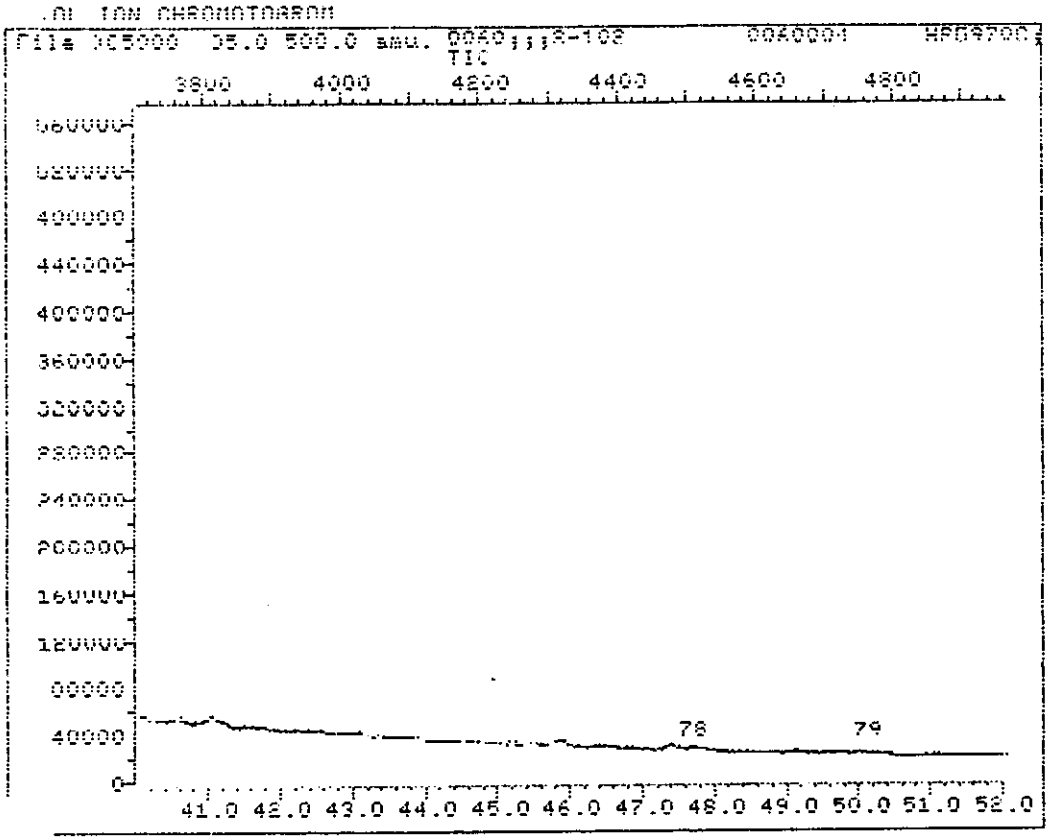


Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 00A0;;;S-1112
Misc: 00A00004 HP5972IC;011994;012094;LLW;1;;;C0951 RTL# 8

Id File: 1 EPA::N1
Title: CLP-DLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 19:13
Injected at: 930129 18:19

TIC page 3 of 4



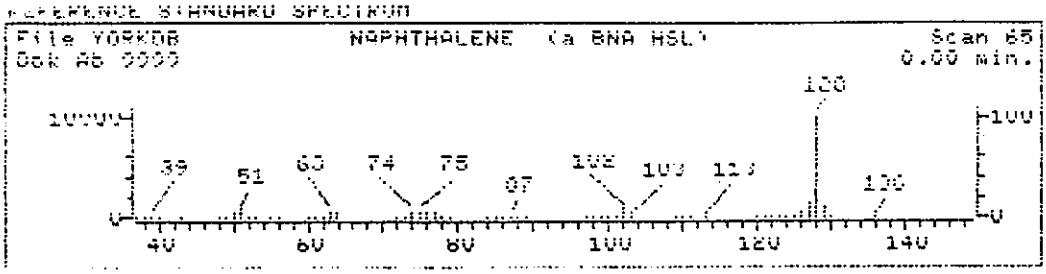
Data File: >C5910R::C5 Quant Output File: ^C5910R::Q1
Name: 0060;;;S-102
Misc: 00A00004 HP59700C;011993;012093;LLW;1;;;C0961 RTL# 8

Id File: 1 EPA::N1
Title: CLP-III M01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

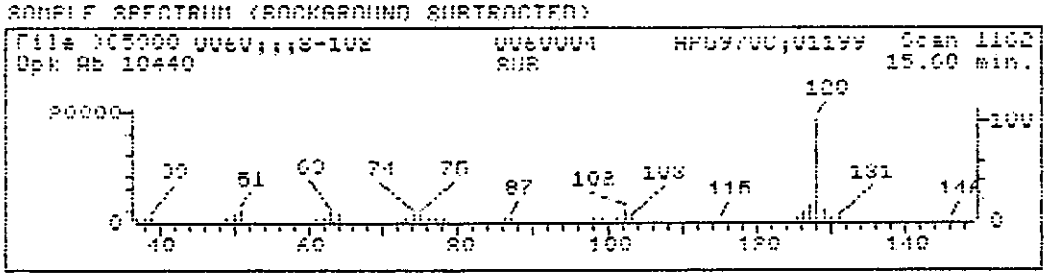
Operator ID: MSC
Quant Time: 930129 19:13
Injected at: 930129 18:19

TIC page 4 of 4

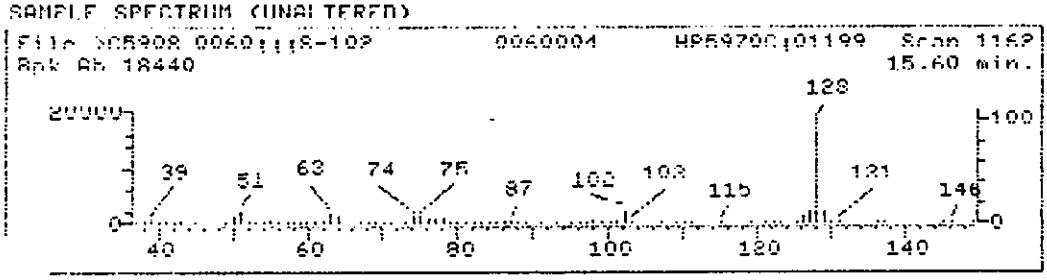
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



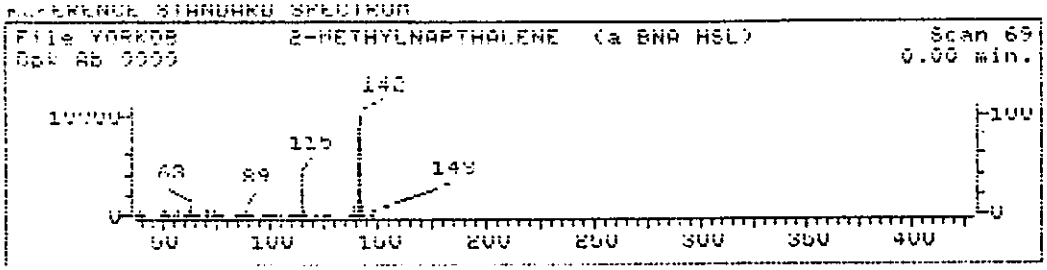
SAMPLE SPECTRUM (UNALTERED)



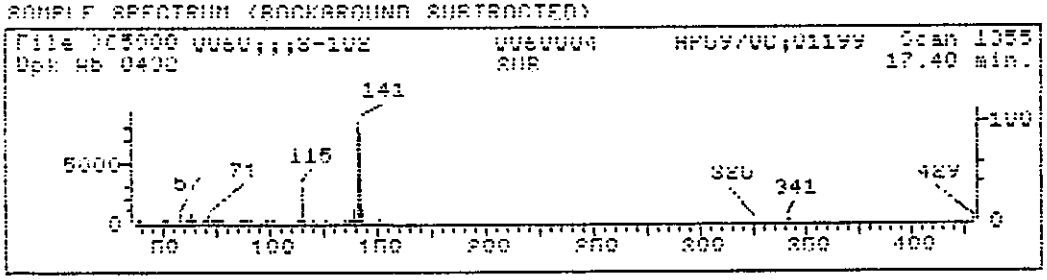
Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 00600004 HP597UC;01199;012093;LLW;1;;;C0951 RTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 27
Compound Name: Naphthalene
Scan Number: 1162
Retention Time: 15.60 min.
Quant Ion: 127.9
Area: 42601
Concentration: 256.44 ug
q-value: 86

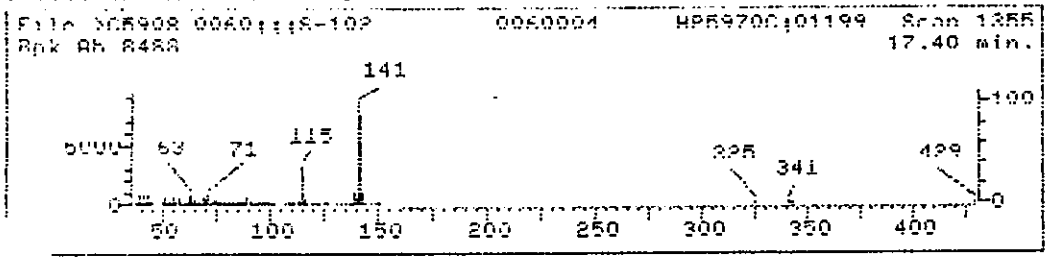
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

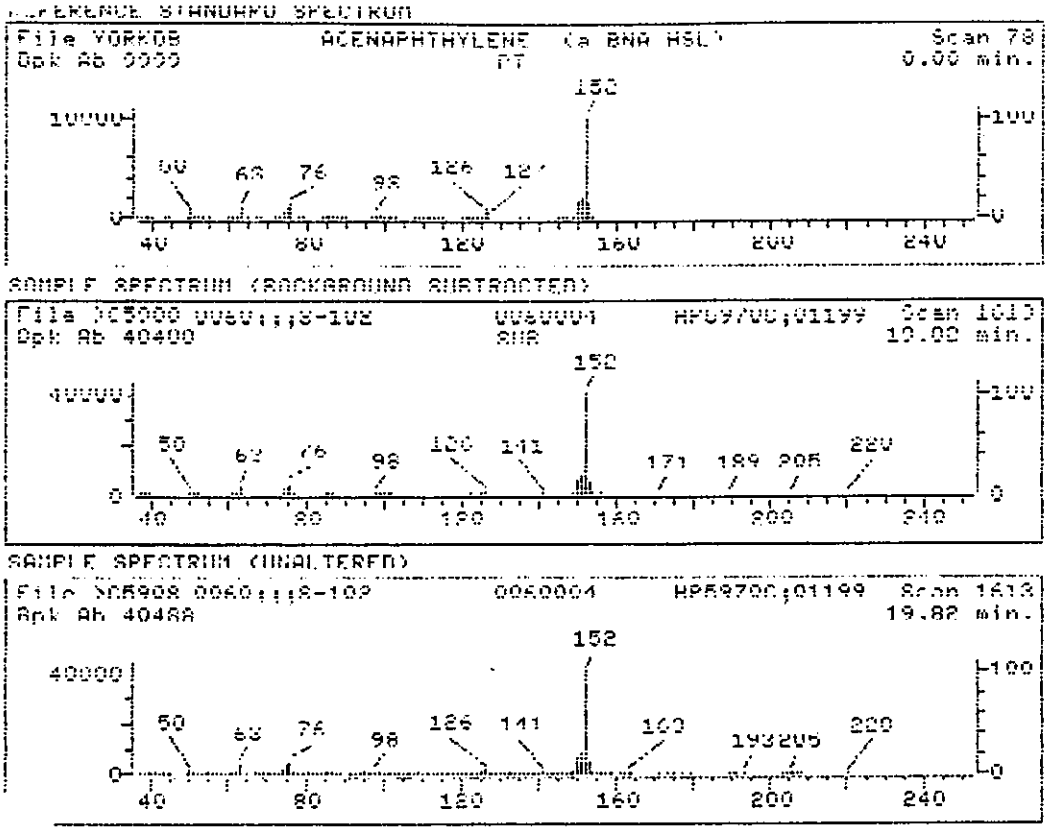


SAMPLE SPECTRUM (UNALTERED)



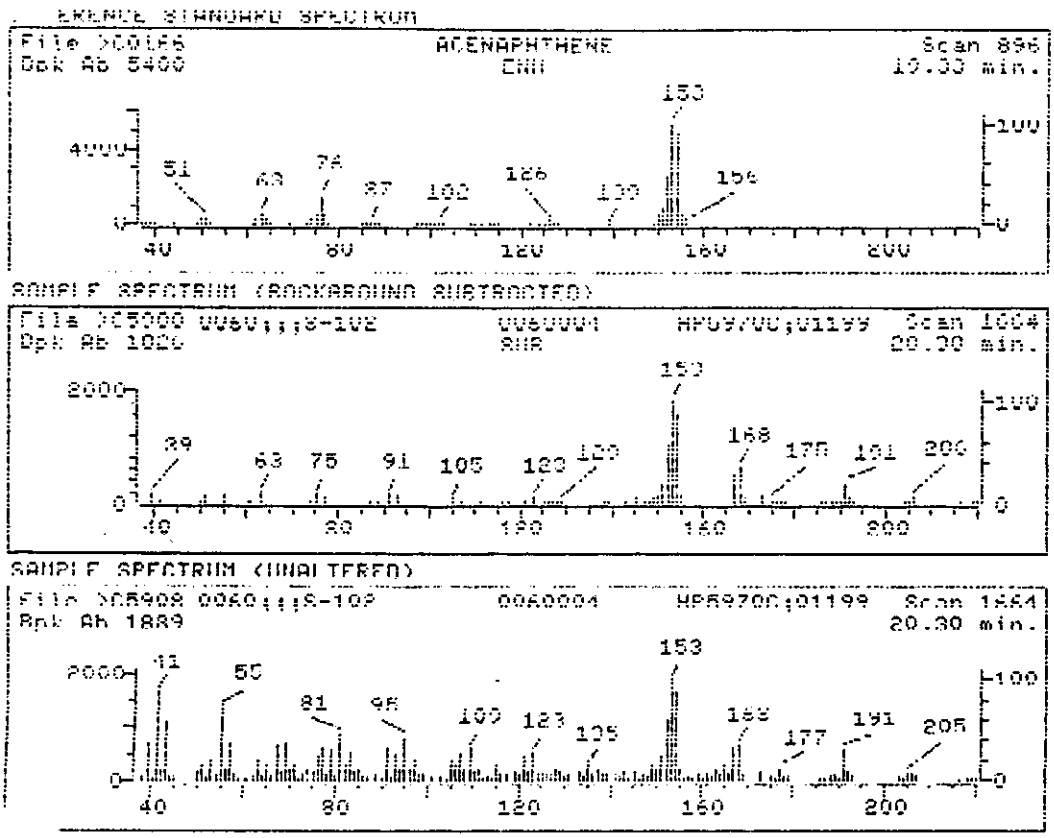
Data File: >C:59108::C% Quant Output File: ^C:590R::QT
Name: 00060;;;S-102
Misc: 00A00004 HP59700;01199;012093;LLW;1;;;C0951 RTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1356
Retention Time: 17.40 min.
Quant Ion: 141.9
Area: 22291
Concentration: 193.26 ug
q-value: 64



Data File: JC590R::C5 Quant Output File: JC590R::QT
Name: 0060;;;S-102
Misc: 0060004 HP597/0C;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

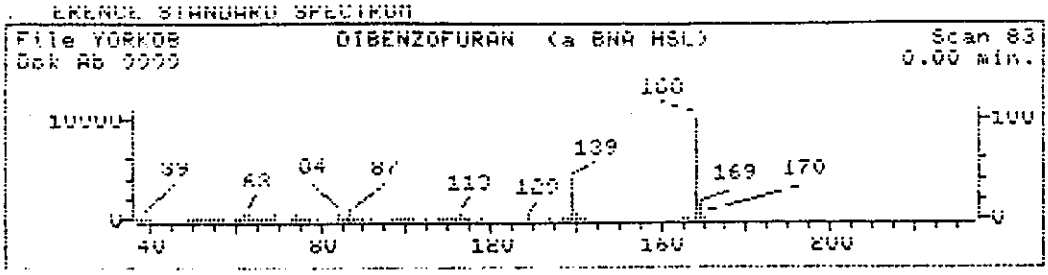
Compound No: 40
Compound Name: Acenaphthylene
Scan Number: 1613
Retention Time: 19.82 min.
Quant Ion: 152.0
Area: 1000729
Concentration: 595.27 ug
q-value: 96



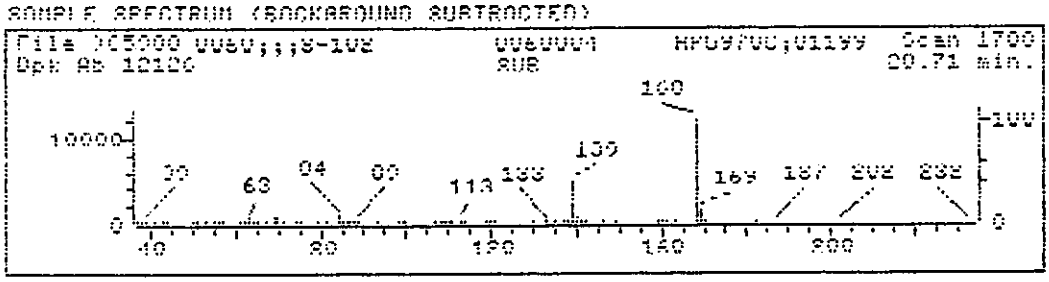
Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 00600004 HP59700;01199;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 43
Compound Name: Acenaphthene
Scan Number: 1664
Retention Time: 20.30 min.
Quant Ion: 152.9
Area: 4918
Concentration: 44.74 ug
q-value: 98

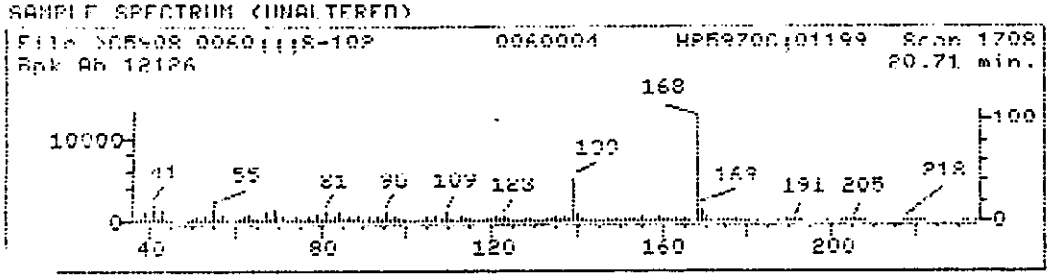
EKENUL STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



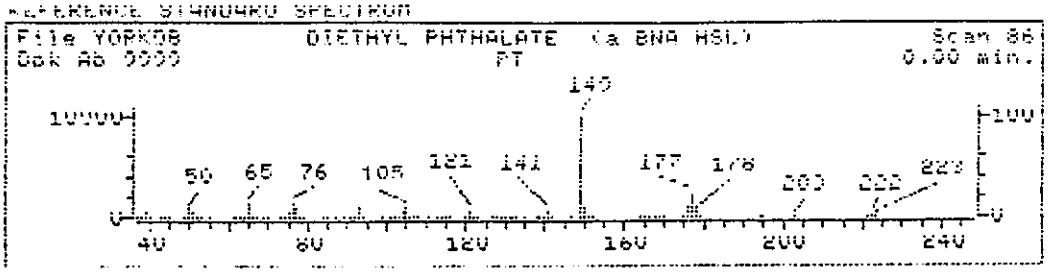
SAMPLE SPECTRUM (UNALTERED)



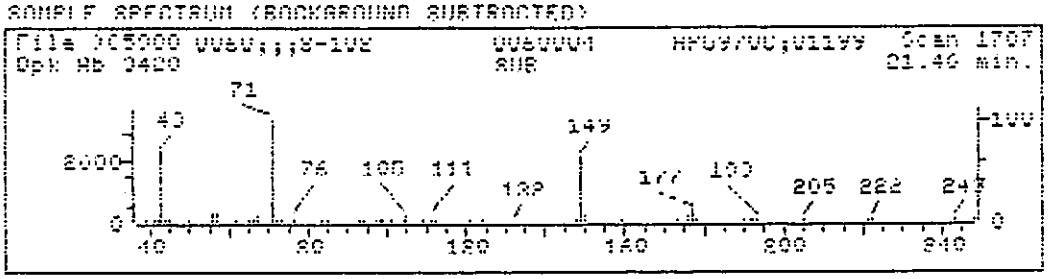
Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 00600004 HP59700;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 46
Compound Name: Dibenzofuran
Scan Number: 1708
Retention Time: 20.71 min.
Quant Ion: 167.8
Area: 31446
Concentration: 214.60 ug
q-value: 90

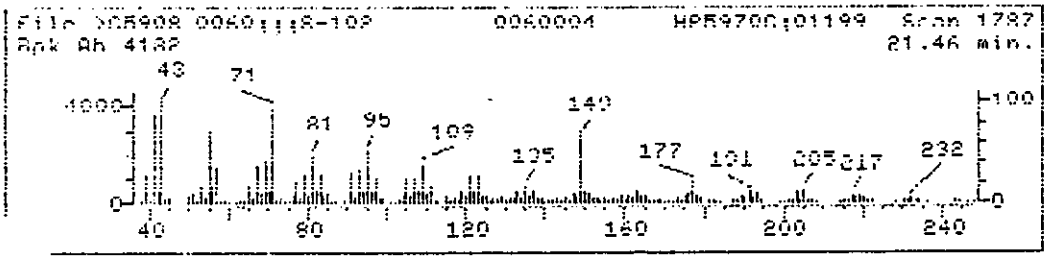
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

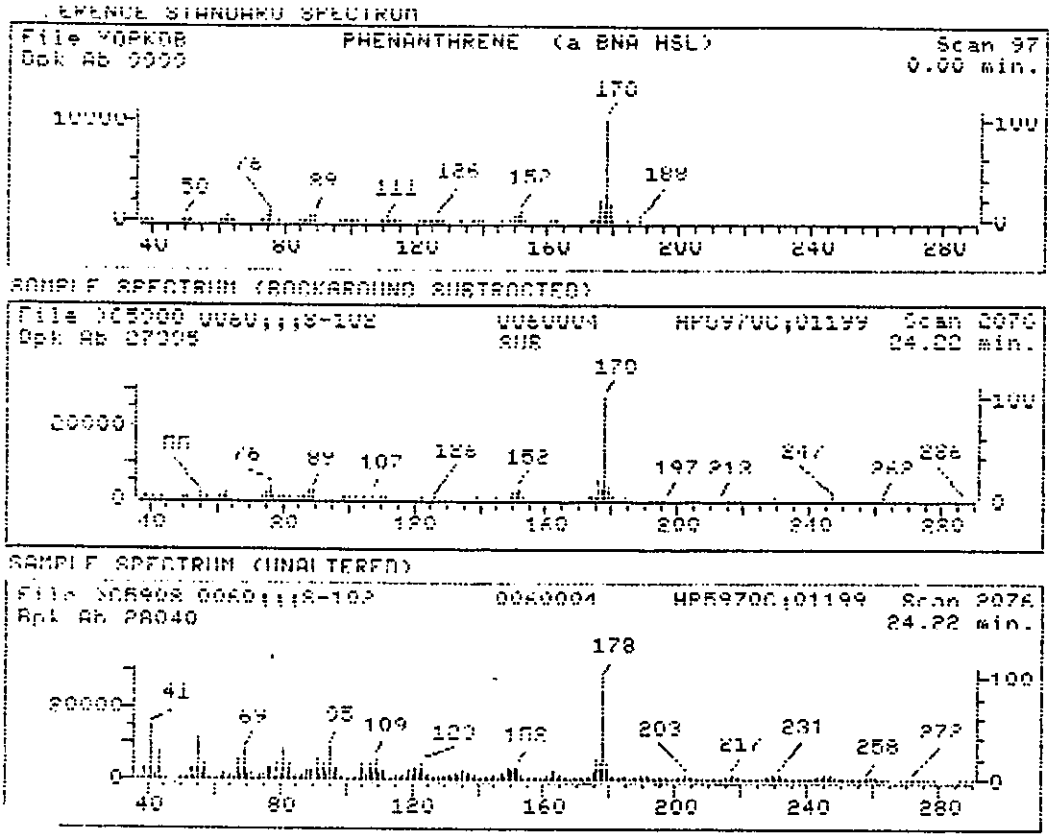


SAMPLE SPECTRUM (UNALTERED)



Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 00600004 HP59700;01199;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: [EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

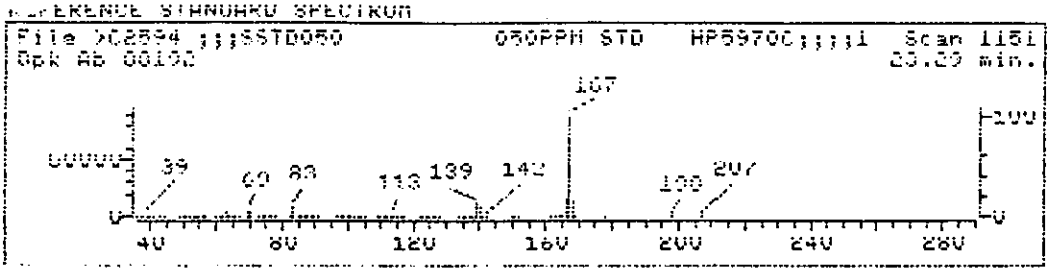
Compound No: 48
Compound Name: Diethylphthalate
Scan Number: 1787
Retention Time: 21.46 min.
Quant Ion: 148.8
Area: 6148
Concentration: 40.61 ug
q-value: 92



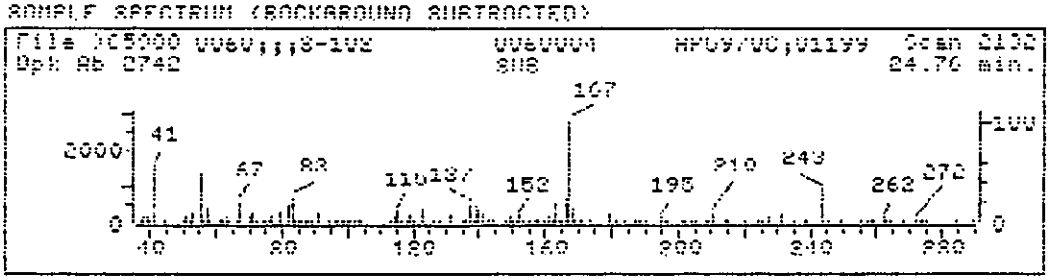
Data File: >C5908::D5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 0060004 HP597UC;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 59
Compound Name: Phenanthrene
Scan Number: 2076
Retention Time: 24.22 min.
Quant Ion: 177.9
Area: 83652
Concentration: 684.37 ug
q-value: 99

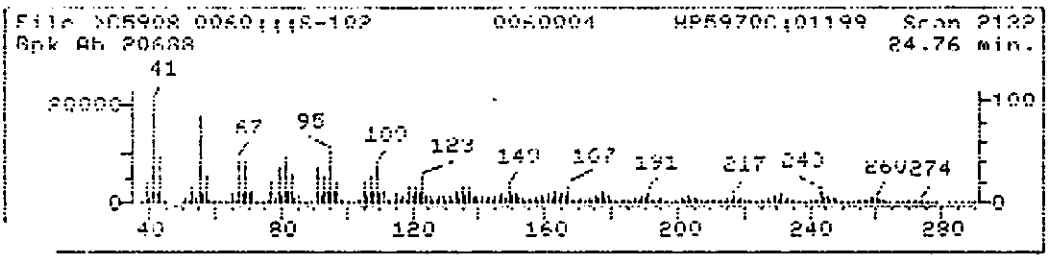
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



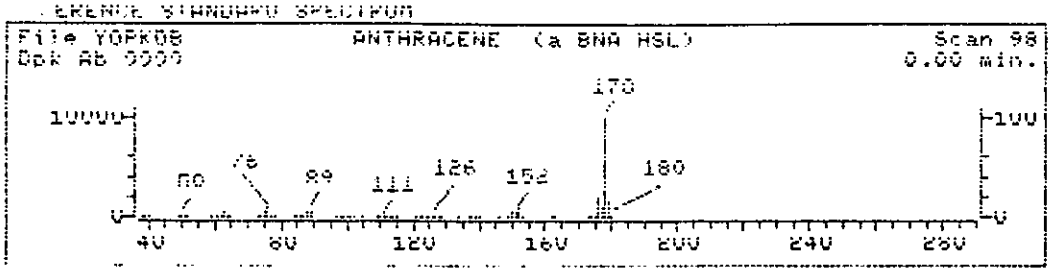
SAMPLE SPECTRUM (UNALTERED)



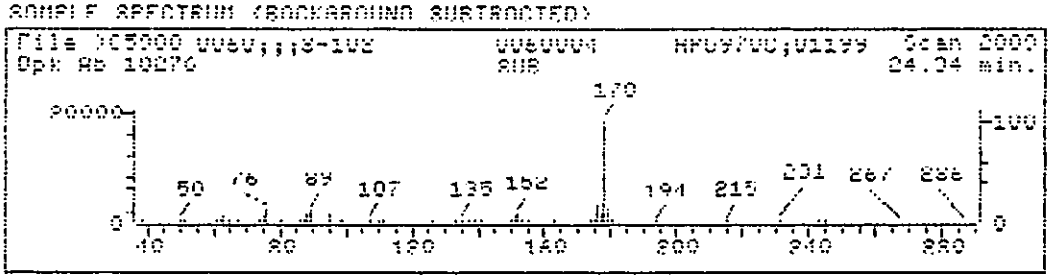
Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 0060004 HP5970C;01199;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 60
Compound Name: Carbazole
Scan Number: 2133
Retention Time: 24.76 min.
Quant Ion: 166.8
Area: 12997
Concentration: 196.96 ug
q-value: 96

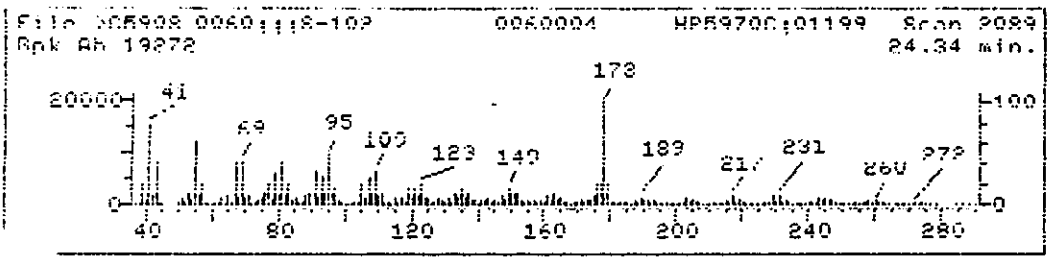
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

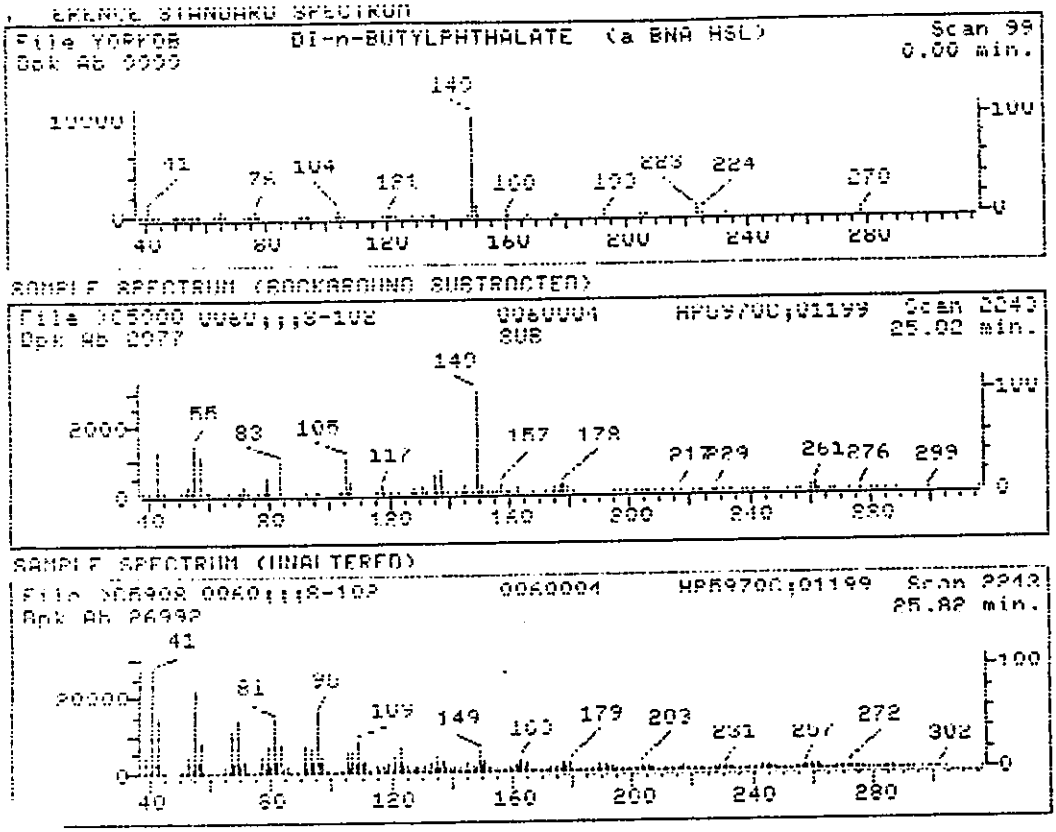


SAMPLE SPECTRUM (UNALTERED)



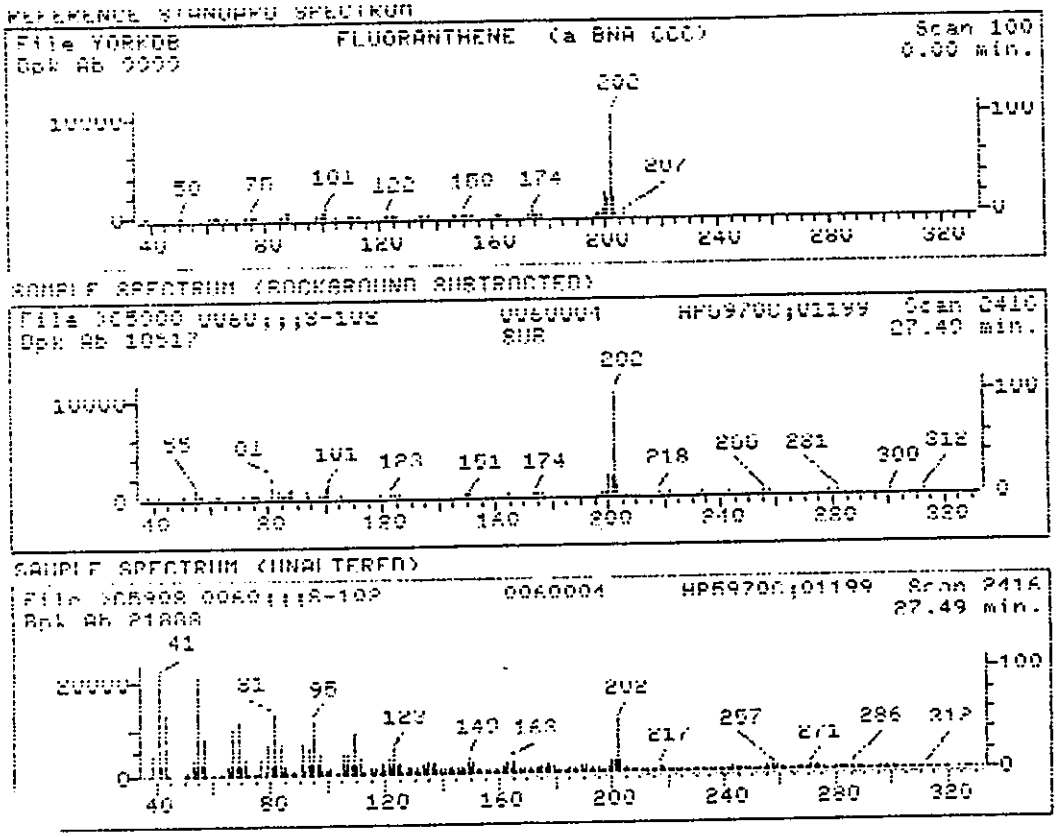
Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 0060004 HP59700;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 61
Compound Name: Anthracene
Scan Number: 2089
Retention Time: 24.34 min.
Quant Ion: 177.9
Area: 47251
Concentration: 372.49 ug
q-value: 98



Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 00600004 HP5972C;011993;012093;LLW;1;;;C0951 RIL# 8
Quant Time: 930129 19:13 Quant ID File: 1 EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

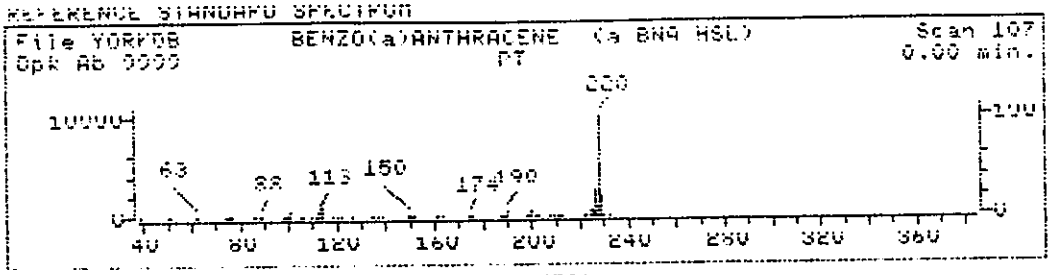
Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2243
Retention Time: 25.82 min.
Quant Ion: 148.8
Area: 8662
Concentration: 48.96 ug
q-value: 91



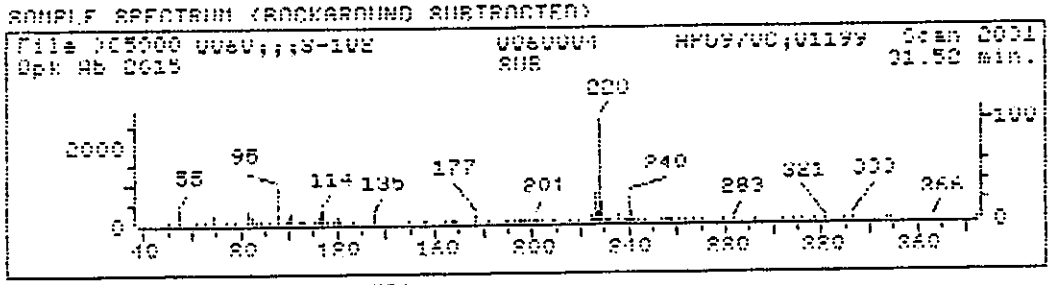
Data File: >JC5908::05 Quant Output File: ^JC5908::Q1
Name: 0060;;;S-102
Misc: 0060004 HP5970C;01199;012093;LOW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 63
Compound Name: Fluoranthene
Scan Number: 2416
Retention Time: 27.49 min.
Quant Ion: 201.9
Area: 36474
Concentration: 262.36 ug
q-value: 94

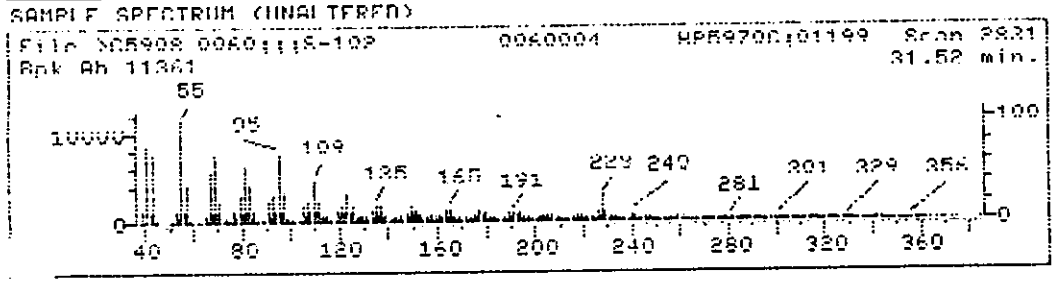
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

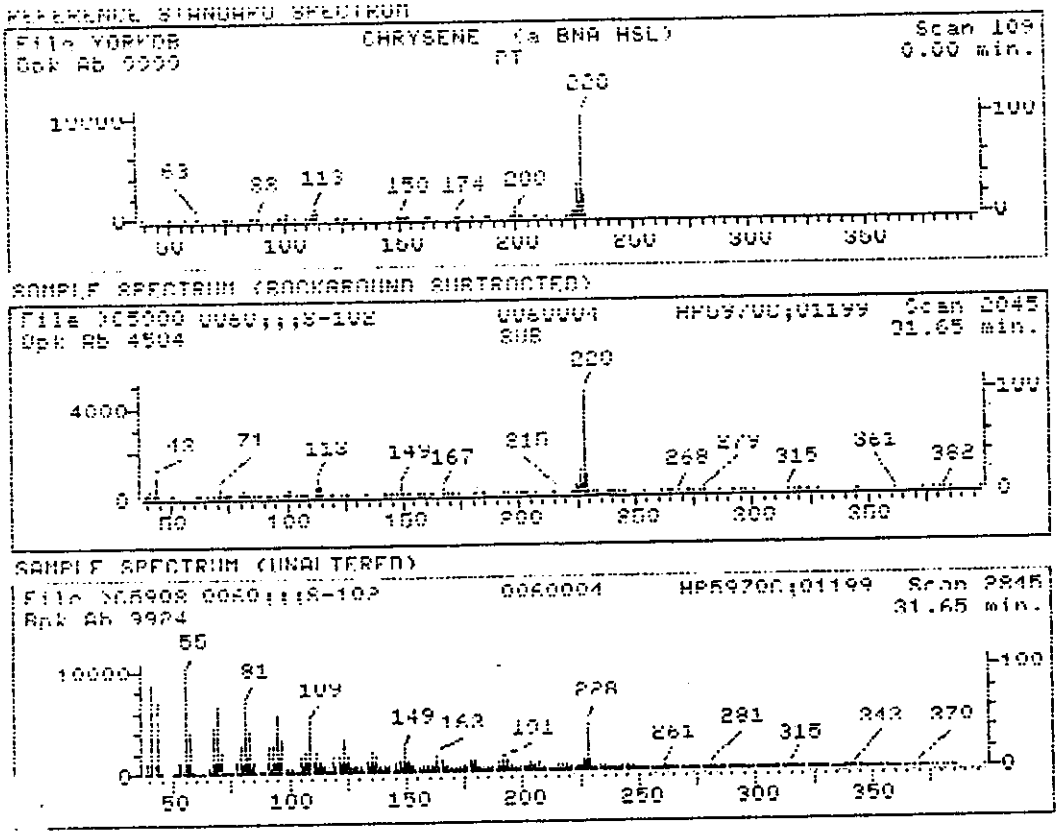


SAMPLE SPECTRUM (FINAL TERM)



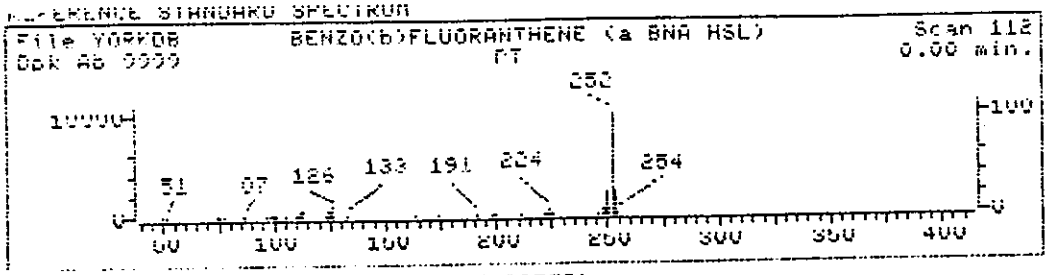
Data File: >C590R::C9 Quant Output File: ^C590R::QI
Name: 0060;;;S-102
Misc: 00600004 HP597UC;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

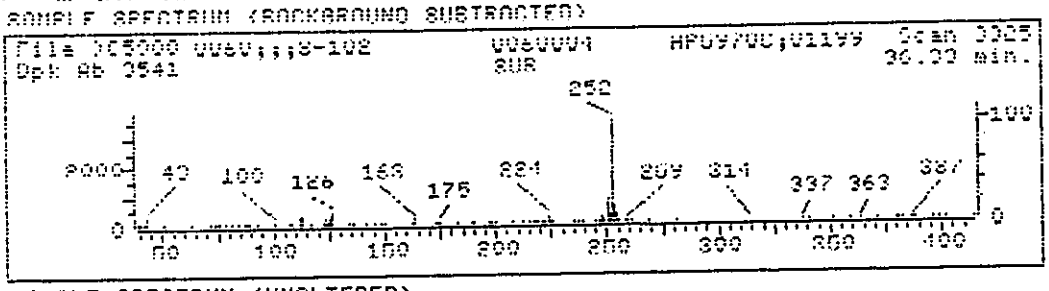
Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2832
Retention Time: 31.52 min.
Quant Ion: 228.0
Area: 13154
Concentration: 1220.62 ug
q-value: 9%

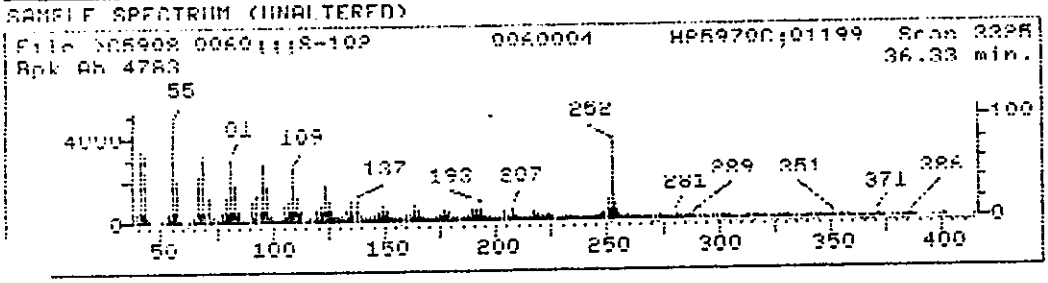


Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 00600004 HP5970C;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 70
Compound Name: Chrysene
Scan Number: 2845
Retention Time: 31.65 min.
Quant Ion: 228.0
Area: 22888
Concentration: 2593.68 ug
n-value: 9%

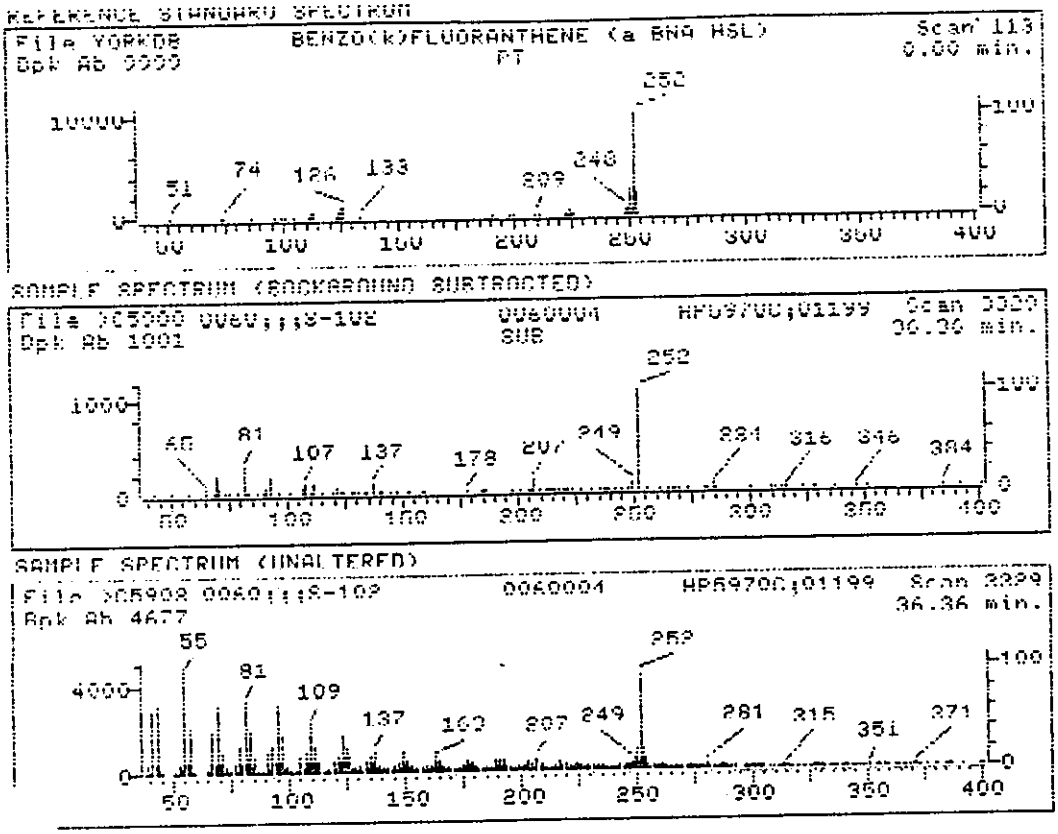






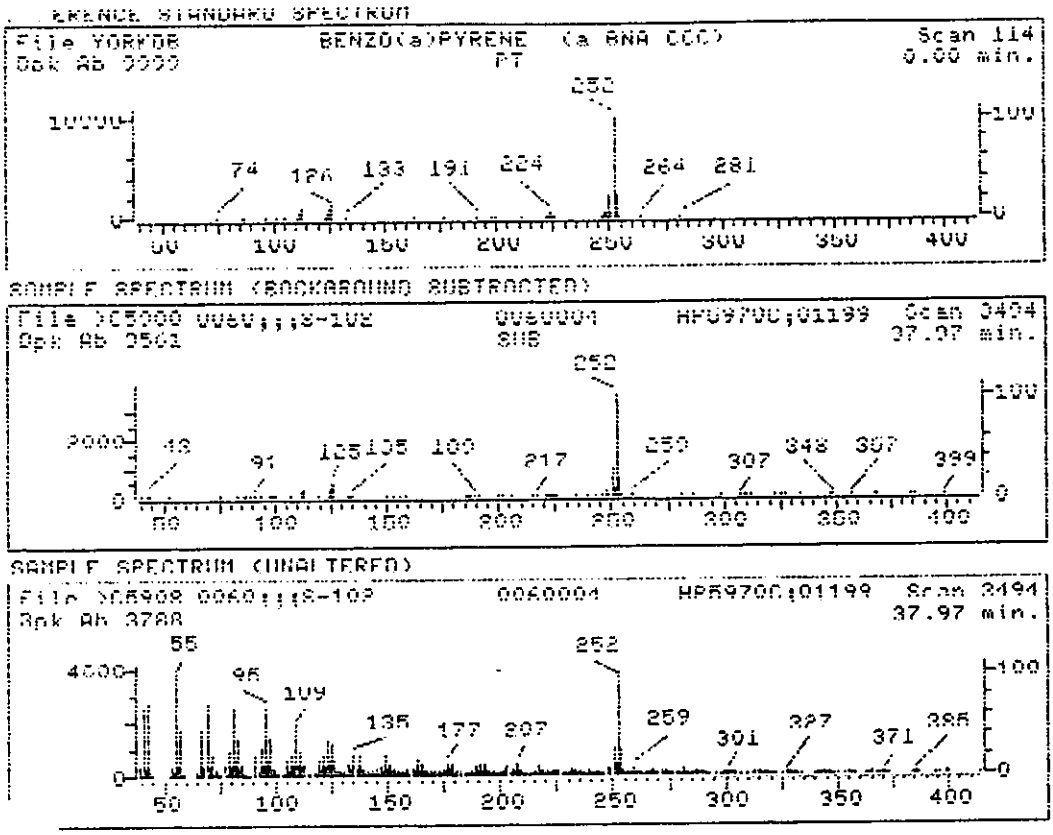
Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 00600004 HP5970C;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 24
Compound Name: Benzo(b)Fluoranthene
Scan Number: 3325
Retention Time: 36.33 min.
Quant Ion: 252.0
Area: 15664^
Concentration: 2193.86 ug
q-value: 9%



Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 0060004 HP5970C;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

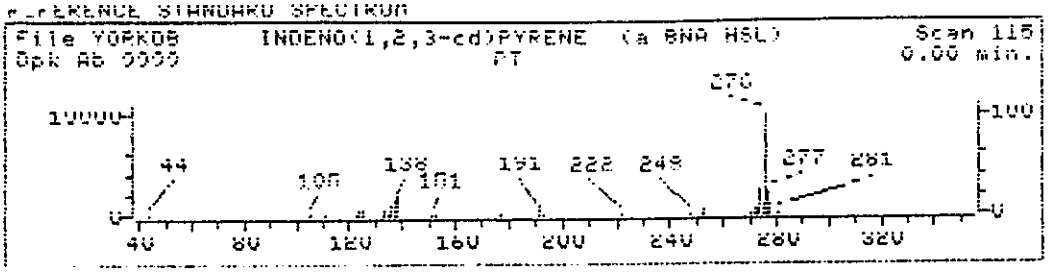
Compound No: 75
Compound Name: Benzo(k)fluoranthene
Scan Number: 3329
Retention Time: 36.36 min.
Quant Ion: 252.0
Area: 11584
Concentration: 1625.96 ug
q-value: 58



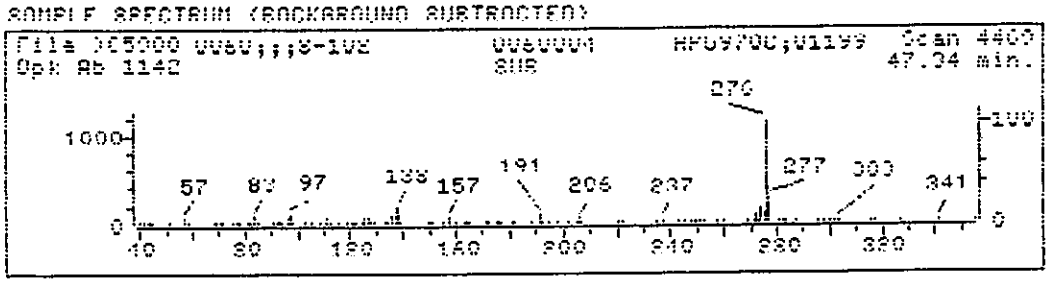
Data File:)C5908::C5 Quant Output File: ^C5908::Q1
Name: 0061;;;S-102
Misc: 0060004 HP59700;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 76
Compound Name: Benzo(a)pyrene
Scan Number: 3494
Retention Time: 37.97 min.
Quant Ion: 252.0
Area: 26512
Concentration: 3959.37 ug
q-value: 95

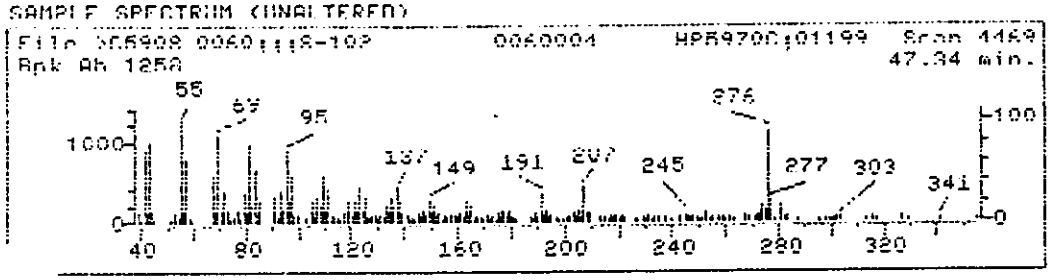
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



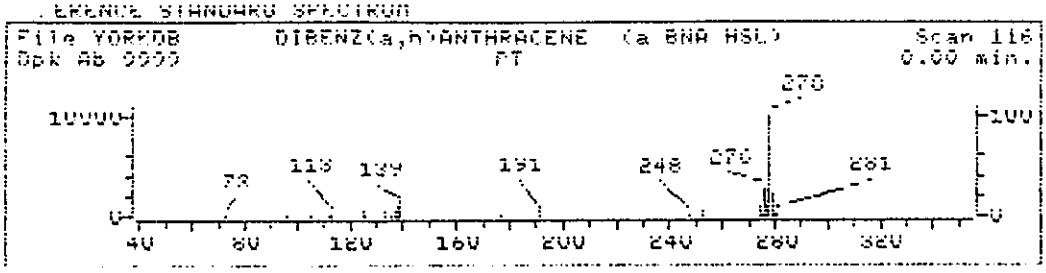
SAMPLE SPECTRUM (UNALTERED)



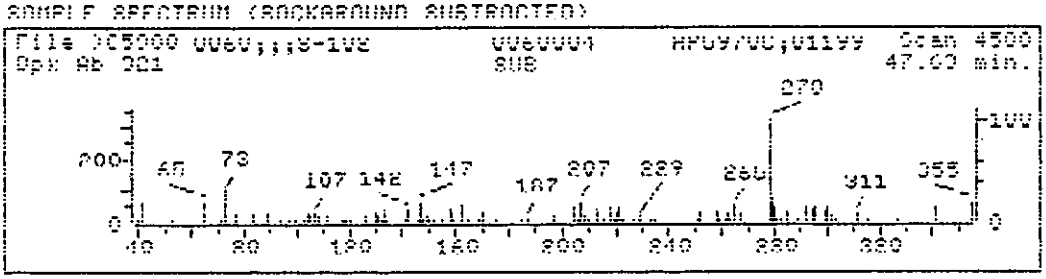
Data File: >C5908::C5 Quant Output File: ^C5908::QT
Name: 0060;;;S-102
Misc: 0060004 HP59700;011993;012093;LLW;1;;;C0951 BTL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4469
Retention Time: 47.34 min.
Quant Ion: 276.0
Area: 5529^
Concentration: 1463.76 ug
q-value: 96

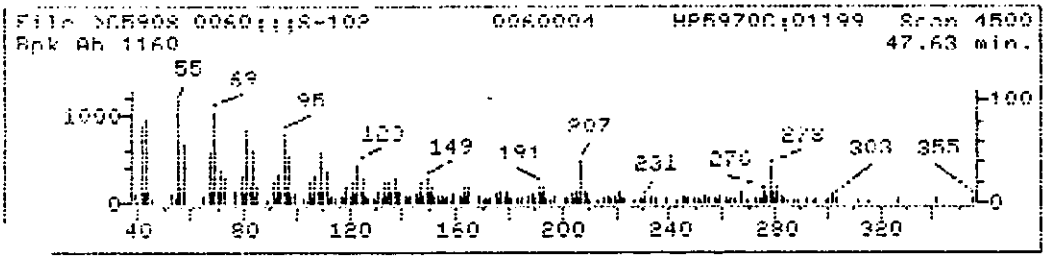
LIBRARY STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



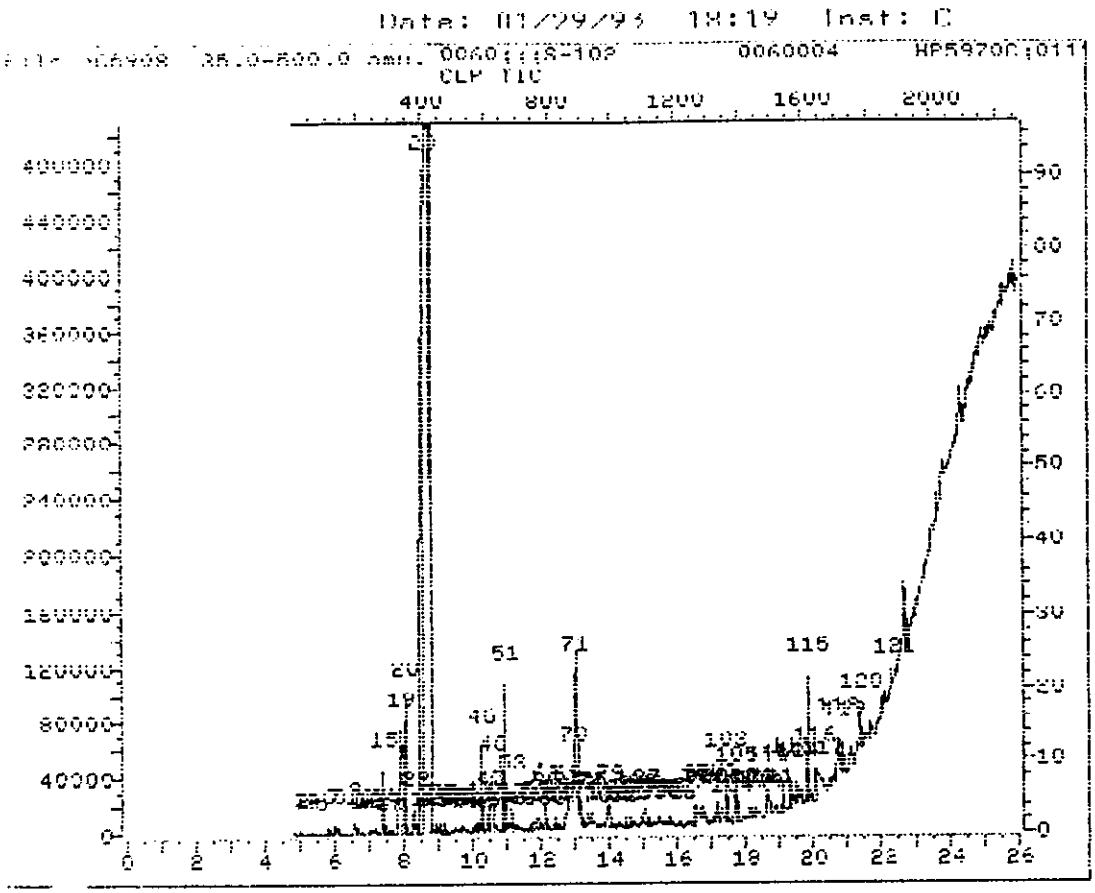
Data File: >C5908::C5 Quant Output File: ^C5908::Q1
Name: 0060;;;S-102
Misc: 00600004 HP59700;011993;012093;LLW;1;;;C0951 BIL# 8
Quant Time: 930129 19:13 Quant ID File: I EPA::N1
Injected at: 930129 18:19 Last Calibration: 930129 11:12

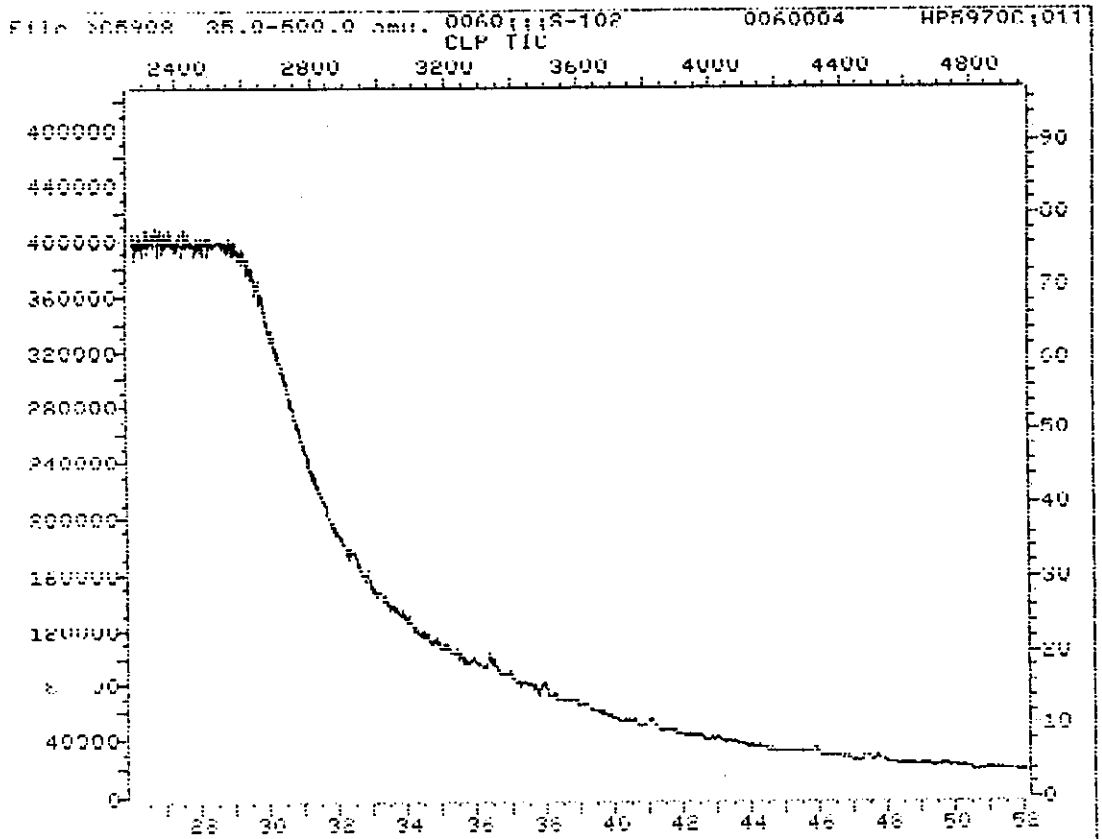
Compound No: 28
Compound Name: Dibenz(a,h)anthracene
Scan Number: 4500
Retention Time: 47.63 min.
Quant Ion: 278.0
Area: 1784
Concentration: 470.88 ug
q-value: 96

MS ata file header from : >D5908

Sample: 0060;;;S-102   Operator: MSC   MS   1/29/93 18:19
Misc : 00A0004   HP5970C;011993;012093;LLW;1;;;C0951   BTL# 8
Sys. #:   1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M C   Tuning file: L C   No. of extra records: 2
Source temp.:   0 Analyzer temp.: 290   Transfer line temp. :   0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


Date: 01/29/93 18:19 Inst: C
CLP TIC
400
800
1200
1600
2000
51
71
115
121
120
0
2
4
6
8
10
12
14
16
18
20
22
24
26


CLP TIC
2400
2800
3200
3600
4000
4400
4800
28
30
32
34
36
38
40
42
44
46
48
50
52

S-52
HP5970C

Date: 01/29/93 18:19 Inst: 0

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
25.	8.59	3337429.	120000.	1.	18.94
19.	7.88	470124.	16000.	1.	18.94
28.	8.02	325169.	11000.	1.	18.94
51.	10.91	289803.	10000.	1.	18.94
21.	13.08	251918.	8800.	1.	18.94
48.	10.54	188916.	6600.	1.	18.94
45.	10.24	143301.	5000.	1.	18.94
20.	12.91	94093.	3300.	1.	18.94
15.	7.32	91280.	3200.	1.	18.94
103	12.40	87529.	2200.	2.	18.94
105	12.68	87011.	2200.	2.	18.94
53.	11.12	53192.	1900.	1.	18.94
29.	13.96	74186.	1900.	2.	18.94
62.	12.12	42414.	1500.	1.	18.94
116	20.01	22053.	1500.	3.	18.94
110	18.62	23130.	1400.	3.	18.94
22.	8.29	41651.	1400.	1.	18.94
113	19.30	67749.	1300.	3.	18.94
98.	14.59	44450.	1100.	2.	18.94
24.	13.38	30061.	1100.	1.	18.94
47.	10.42	31033.	1100.	1.	18.94
1	20.86	57830.	1100.	3.	18.94
1..	21.34	58262.	1100.	3.	18.94
87.	15.06	40008.	1000.	2.	18.94
112	19.06	54912.	1000.	3.	18.94
72.	13.20	25937.	91.	1.	18.94
26.	13.46	23287.	82.	1.	18.94

0389

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.29	216374.	0.00	13.92	7.4
NAPHTHALENE-D8	15.55	303545.	13.92	17.89	2.4
ACENAPHTHENE-D10	20.22	398931.	17.89	22.19	5.1
PHENANTHRENE-D10	24.16	320573.	22.19	27.90	3.4
CHRYSENE-D12	31.64	14164.	27.90	35.23	1.1
PERYLENE-D12	38.81	10214.	35.23	50.07	1.2

ISTD peaks found: 6
Surrogate peaks found: 2
Quant target peaks expected: 33
Target peaks matched: 5
Total TIC identified: 29

TIME : 5:42 PM THU., 4 FEB., 1993

SUM 000

Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

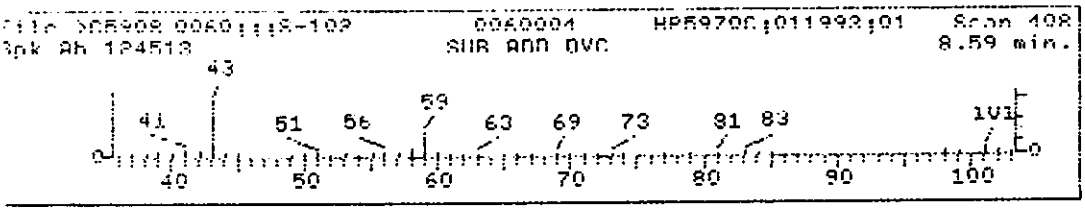
RPN error for command: RSE63
RPN error: -5
Bad record length RSF

0390

Sample file: >C59108 Spectrum #: 408

No data base entries were retrieved.

Peak#: 23 Area: 3332472. Est Conc: 121100. Date: 01/29/93 18:19 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
th run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
ad record length RSF

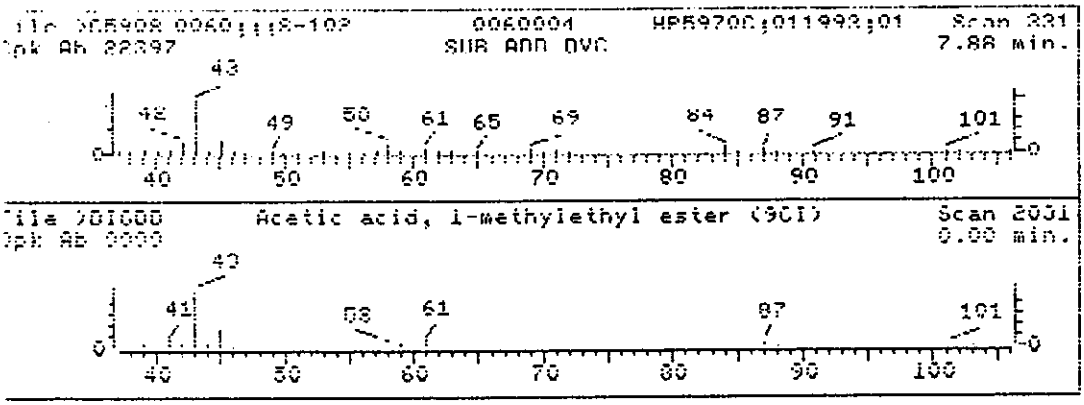
0391

1. Acetic acid, 1-methylethyl ester (9CI) 102 C5H10O2

Sample file: >C5908 Spectrum #: 331
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	R	IV
1.	26	108214	2031	"RIGOR	41	38	1	0	52	44	8		14

Peak#: 19 Area: 470124. Est Conc: 1610. Date: 01/29/93 18:19 Inst: C



RPN error for command: RSF63
RPN error: -5
Bad record length RSF

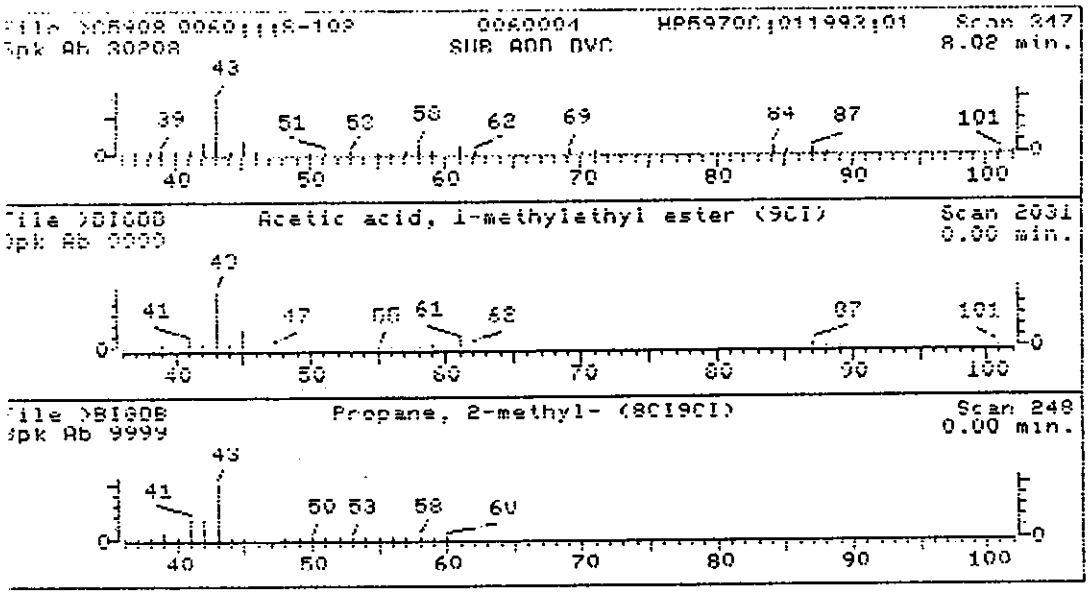
0392

1. Acetic acid, 1-methylethyl ester (9CI) 102 C5H10O2
2. Propane, 2-methyl- (8CI9CI) 58 C4H10

Sample File: >C9908 Spectrum #: 347
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	44	108214	2031	"BIGDB	43	36	1	0	68	22	17	15		
2.	15*	75285	248	"BIGDB	21	48	2	0	53	58	3	13		

Peak#: 20 Area: 325169. Est Conc: 1100. Date: 01/29/93 18:19 Inst: C



RPN: 0005

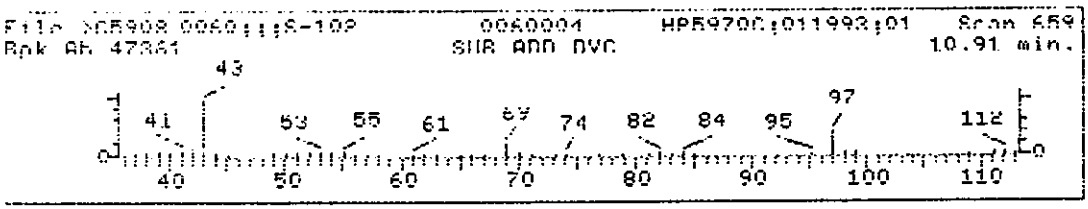
Can't interpret this paramater... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C59118 Spectrum #: 659

No data base entries were retrieved.

Peak#: 51 Area: 2898113. Fst Conc: 1000. Date: 01/29/93 18:19 Inst: C



RPN-0005

0394

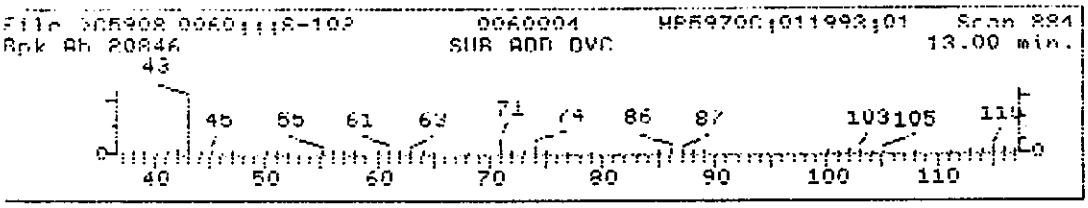
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5908 Spectrum #: 884

No data base entries were retrieved.

Peak#: 21 Area: 251918. Est Conc: 880. Date: 01/29/93 18:19 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
tt run string or have forgotten the order of the run string.

0395

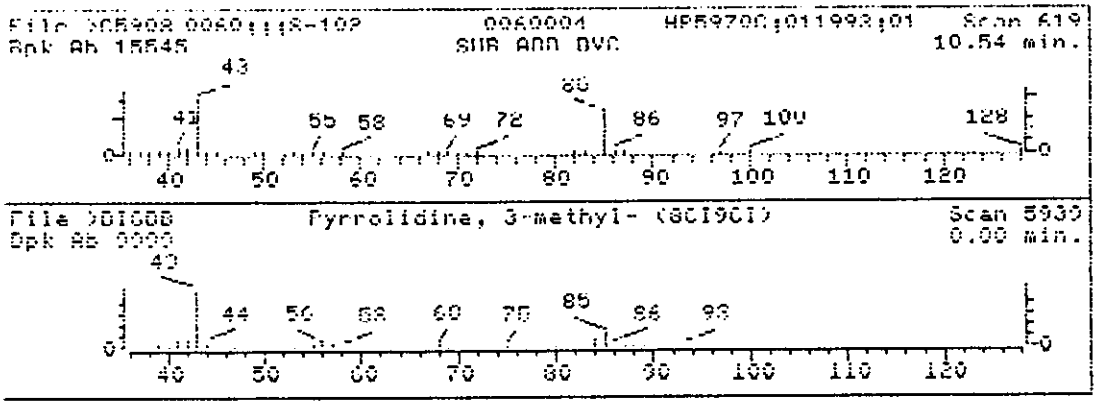
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Pyrrolidine, 3-methyl- (8CI9CI) R5 C5H11N

Sample file: >C5908 Spectrum #: 619
Search speed: 3 Tilting option: 5 No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IU
1.	42*	34322898	5959	"R1GDR	21	60	2	0	91	23	17	13		

Peak#: 48 Area: 188916. Est Conc: 660. Date: 01/29/93 18:19 Inst: C



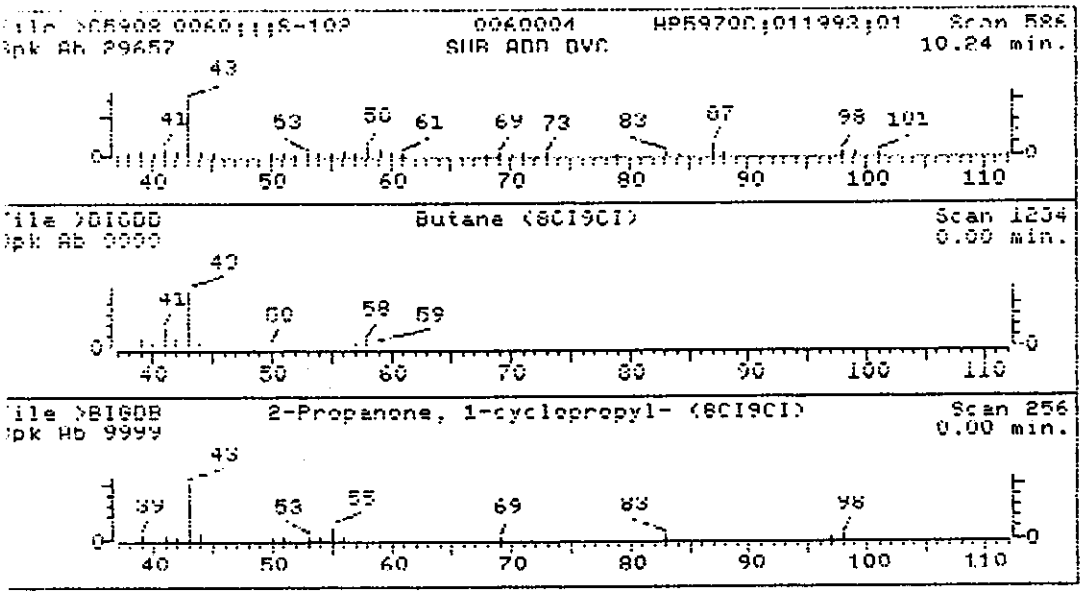
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Butane (8CI9CI) 98 C4H10
2. 2-Propanone, 1-cyclopropyl- (8CI9CI) 98-C6H10O

Sample file: >C5908 Spectrum #: 586
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	COM #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	36*	106978	1234	"BIGDB	20	59	2	0	100	29	14		13	
2.	31*	4160752	256	"BIGDR	21	44	2	0	100	33	12		13	

Peak#: 45 Area: 143301. Est Conc: 500. Date: 01/29/93 18:19 Inst: C



RPN error for command: RSR65
F error: -5
Bad record length RSR

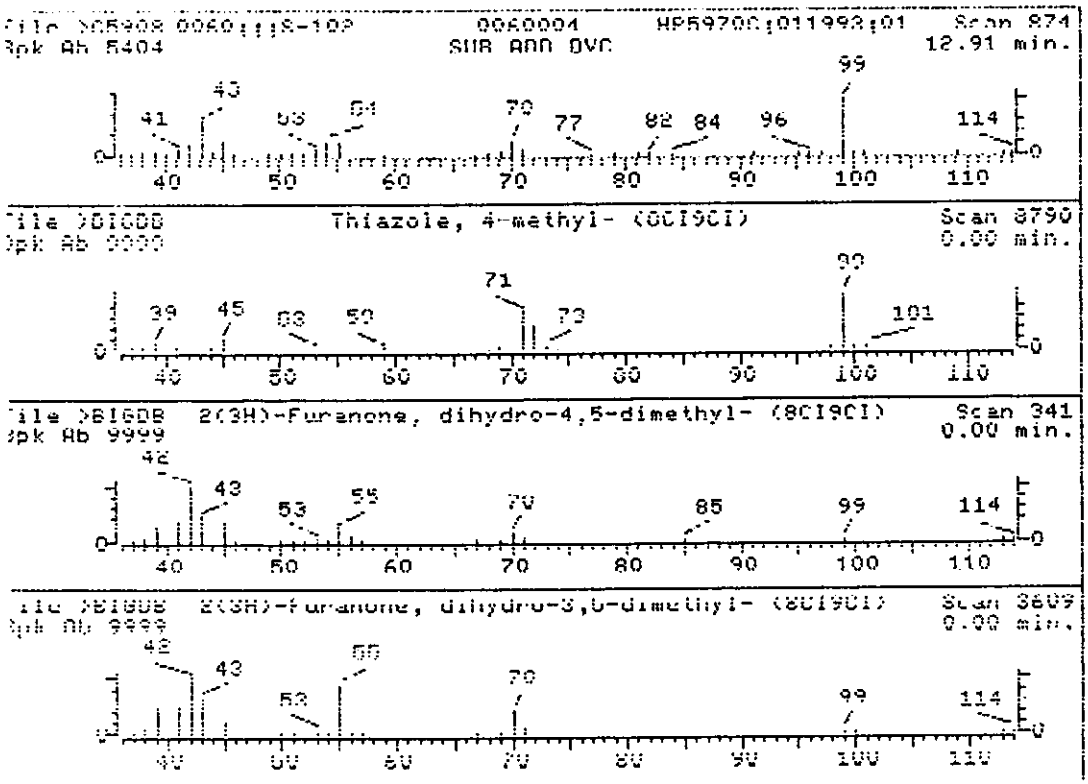
0397

1. Thiazole, 4-methyl- (8CI9CI) 99 C4H5NS
2. 2(3H)-Furanone, dihydro-4,5-dimethyl- (8CI9CI) 114 C6H10O2
3. 2(3H)-Furanone, dihydro-3,5-dimethyl- (8CI9CI) 114 C6H10O2

Sample file: >C5908 Spectrum #: 874
Search speed: 3 Tilting option: S No. of ion ranges searched: 99

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	36*	693958	8798	"BIGDB	31	64	3	0	100	26	14		13	
2.	11*	6971637	341	"BIGDB	25	65	3	0	137	62	2		13	
3.	11*	5145812	3609	"BIGDB	22	74	3	0	93	61	2		12	

Peak#: 20 Area: 94093. Est Conc: 330. Date: 01/29/93 18:19 Inst: C



Std record length RSS

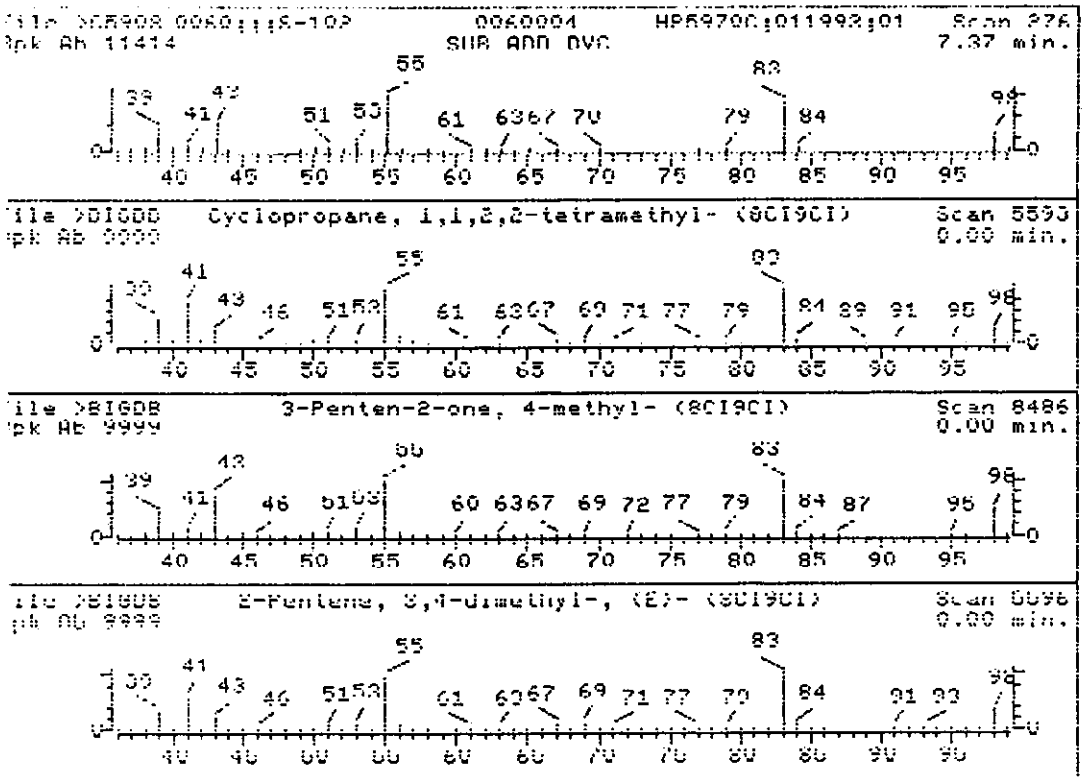
0398

1.	Cyclopropane, 1,1,2,2-tetramethyl- (8CI9CI)	98 C7H14
2.	3-Penten-2-one, 4-methyl- (8CI9CI)	98 C6H10O
3.	2-Pentene, 3,4-dimethyl-, (E)- (8CI9CI)	98 C7H14
4.	2-Pentene, 4,4-dimethyl- (8CI9CI)	98 C7H14

Sample File: >C5908 Spectrum #: 276
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	COIN #	NAME	K	DK	#LG	TILT	%	CON	C	I	R	IV
1.	78*	4127473	5593	"BIGDB	43	54	2	0	86	5	55			19
2.	66*	141797	8486	"BIGDB	65	33	2	0	61	18	31			44
3.	52*	4914925	5596	"BIGDB	41	55	2	0	87	19	20			18
4.	52*	26232984	5599	"BIGDB	34	56	2	0	97	20	20			17

Peak#: 15 Area: 91780. Est Conc: 320. Date: 01/29/93 18:19 Inst: C



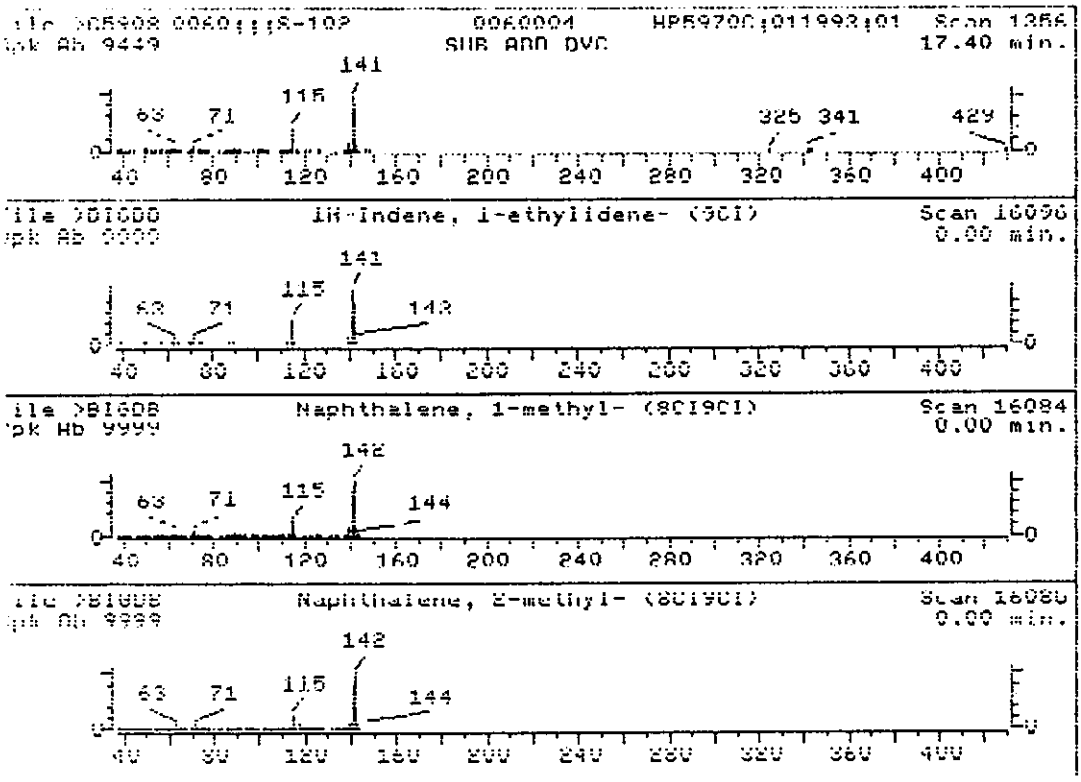
ad record length RSH

1.	1H-Indene, 1-ethylidene- (9CI)	142	C11H10
2.	Naphthalene, 1-methyl- (8CI,9CI)	142	C11H10
3.	Naphthalene, 2-methyl- (8CI,9CI)	142	C11H10
4.	1,4-Methanonaphthalene, 1,4-dihydro- (8CI,9CI)	142	C11H10

Sample file: >IC5908 Spectrum #: 1356
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	89*	2471832	16096	"BIGDB	92	8	1	-1	80	6	62	83		
2.	24*	90120	16084	"BIGDB	67	33	2	0	84	15	39	46		
3.	24*	91576	16085	"BIGDB	62	36	2	0	84	15	39	41		
4.	21*	4453901	16098	"BIGDB	39	63	2	0	99	6	49	14		

Peak#: 113 Area: 87529. Est Conc: 220. Date: 01/29/93 18:19 Inst: C



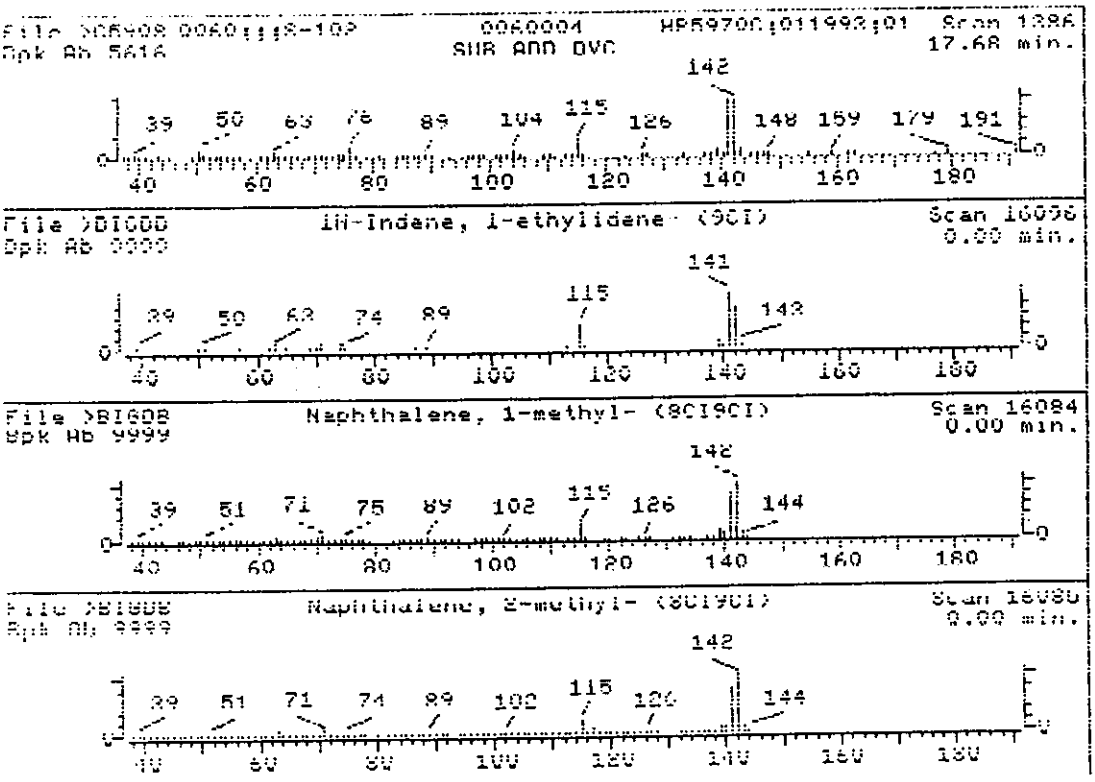
...ard length RSF

1. 1H-Indene, 1-ethylidene- (9CI) 142 C11H10
2. Naphthalene, 1-methyl- (8CI,9CI) 142 C11H10
3. Naphthalene, 2-methyl- (8CI,9CI) 142 C11H10
4. 1,4-Methanonaphthalene, 1,4-dihydro- (8CI,9CI) 142 C11H10

Sample File: >D59HR Spectrum #: 1386
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	COIN #	NAME	K	DK	#FLG	TIC	%	CON	C	I	R	IV
1.	85*	2471832	16096	"BIGDB	25	25	0	0	58	42	43			93
2.	83*	911211	16084	"BIGDB	28	30	2	0	91	10	54			58
3.	81*	91576	16085	"BIGDB	64	34	2	2	83	6	53			41
4.	74*	4453911	16098	"BIGDB	22	30	2	-3	100	12	39			49

Peak#: 105 Area: 87011. Est Conc: 220. Date: 01/29/93 18:19 Inst: C



Un * interpret this parameter... Perhaps you have mistyped
th run string or have forgotten the order of the run string.

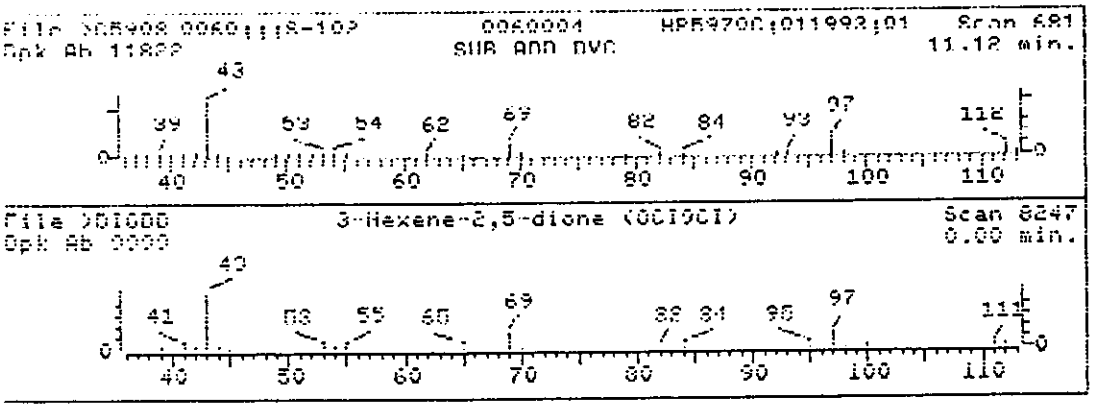
RPN error for command: RSFA3
RPN error: -5
Bad record length RSF

1. 3-Hexene-2,5-dione (8CI,9CI) 112 C6H8O2

Sample file: >C591IR Spectrum #: 681
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IU
1.	59*	4436753	8247	"RIGOR	23	59	3	0	100	20	20			12

Peak#: 53 Area: 53192. Est Conc: 190. Date: 01/29/93 18:19 Inst: C



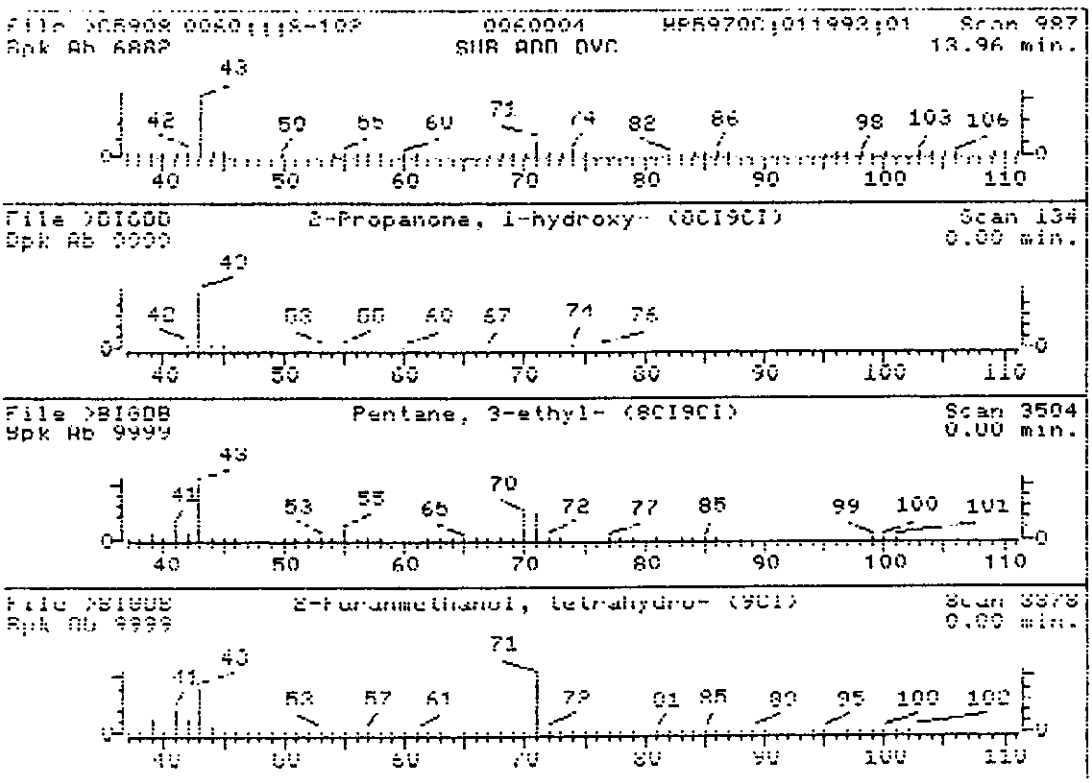
for record length RSF

1.	2-Propanone, 1-hydroxy- (8CI,9CI)	74 C3H6O2
2.	Pentane, 3-ethyl- (8CI,9CI)	100 C7H16
3.	2-Furanmethanol, tetrahydro- (9CI)	102 C5H10O2
4.	Furan, tetrahydro-2-methyl- (8CI,9CI)	86 C5H10O

Sample file: >C59108 Spectrum #: 987
Search speed: 3 Tilting option: S No. of ion ranges searched: 74

	Prob.	CAS #	COM #	ROOT	K	DK	#FLG	TILT	%	COM	C	I	R	IO
1.	36*	116096	134	"BIGDB	27	46	0	0	24	33	12	19		
2.	25*	617287	3504	"BIGDB	31	52	2	0	58	49	7	15		
3.	11	97994	3878	"BIGDB	34	46	1	0	25	64	2	12		
4.	11*	96479	3914	"BIGDB	21	68	2	0	25	62	2	13		

Peak#: 79 Area: 74186. Fst Conc: 190. Date: 01/29/93 18:19 Inst: C



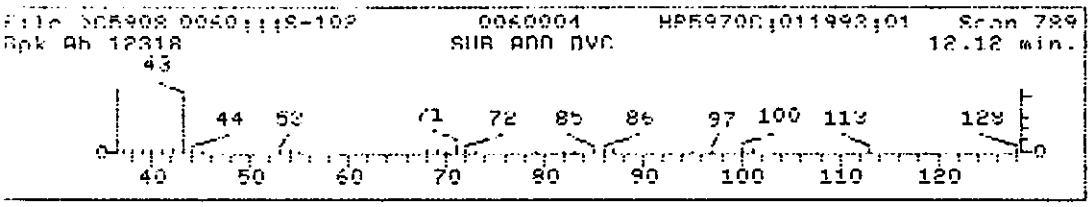
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5908 Spectrum #: 789

No data base entries were retrieved.

Peak#: 62 Area: 42414. Est Conc: 150. Date: 01/29/93 18:19 Inst: C



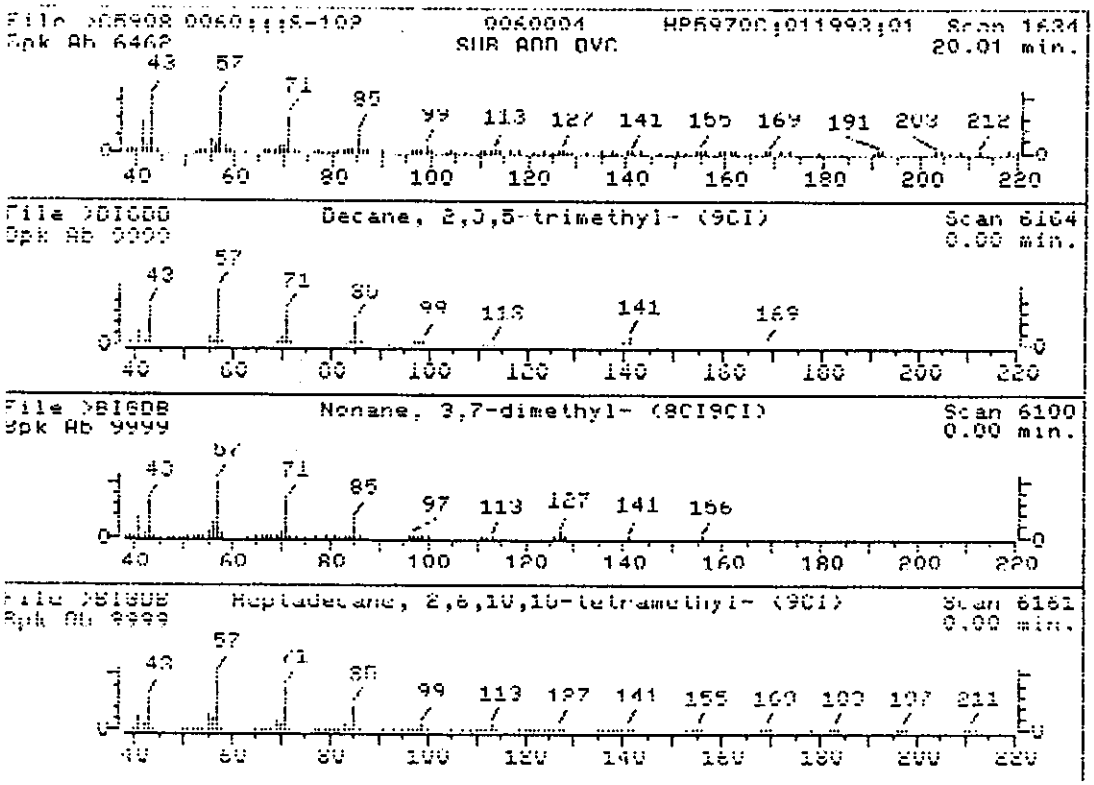
Cmd accord length RSP

1.	Decane, 2,3,5-trimethyl- (9CI)	184 C13H28
2.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Tridecane, 4,8-dimethyl- (9CI)	212 C15H32

Sample file: >C69IIB Spectrum #: 1634
Search speed: 3 Tilting option: S No. of ion ranges searched: 97

	Prob.	CAS #	CIN #	ROOT	K	DK	#FIG	TILT	%	CON	C	I	R	IV
1.	28	62238113	6164	"BIGDB	58	45	2	0	87	5	55			14
2.	26*	17312328	6100	"BIGDB	43	43	2	0	95	10	45			23
3.	20	54833486	6161	"BIGDB	64	69	2	0	69	9	42			14
4.	20*	55030621	15993	"BIGDB	55	68	3	0	99	10	42			18

Peak#: 116 Area: 77053. Est Conc: 150. Date: 01/29/93 18:19 Inst: C



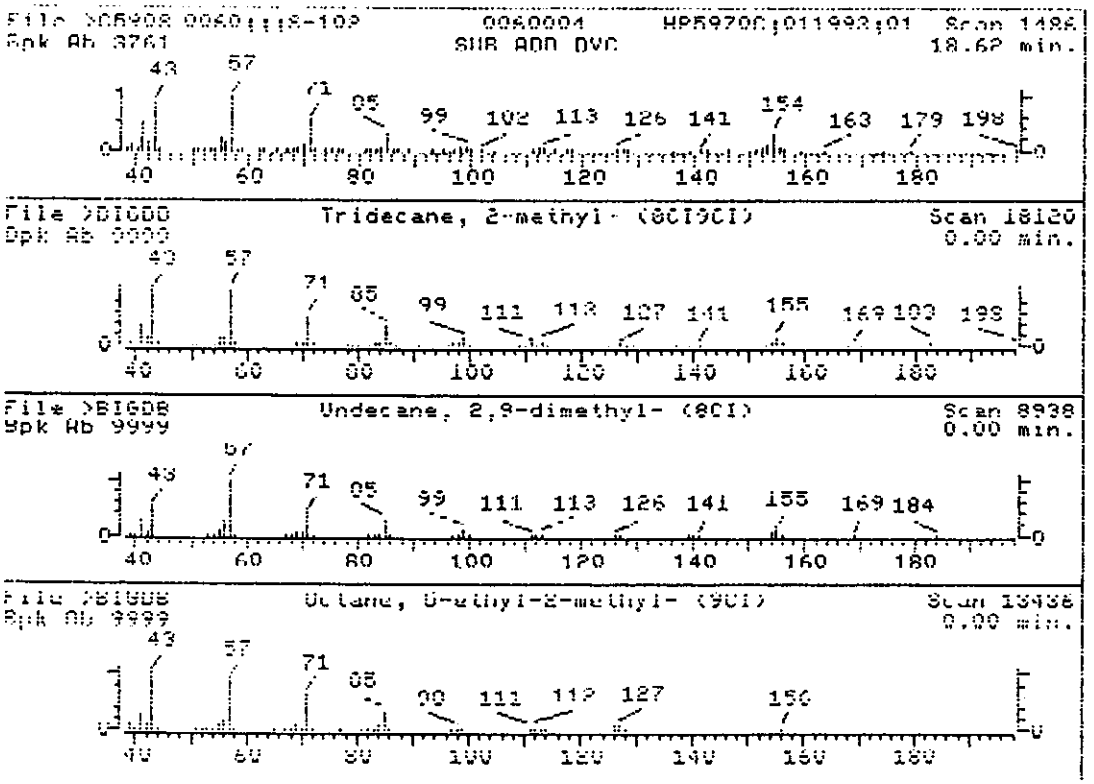
nd Record Length RSP

1.	Tridecane, 2-methyl- (8CI,9CI)	198 C14H30
2.	Undecane, 2,9-dimethyl- (8CI)	184 C13H28
3.	Octane, 5-ethyl-2-methyl- (9CI)	156 C11H24
4.	Decane, 3-methyl- (8CI,9CI)	156 C11H24

Sample File: >I69DB Spectrum #: 1486
Search speed: 3 Tilting option: S No. of ion ranges searched: 65

	Prob.	CAS #	COIN #	RIBIT	K	DK	#PEG	TILT	%	CON	C	R	IO
1.	54*	15600969	18120	"BIGDB	61	59	2	0	80	34	20		38
2.	47	12301262	8938	"BIGDB	63	38	2	0	100	28	14		19
3.	41*	62016186	13436	"BIGDB	53	45	2	0	87	36	14		28
4.	41*	13151343	13424	"BIGDB	50	44	2	0	93	41	14		31

Peak#: 110 Area: 73130. Est Conc: 140. Date: 01/29/93 18:19 Inst: C



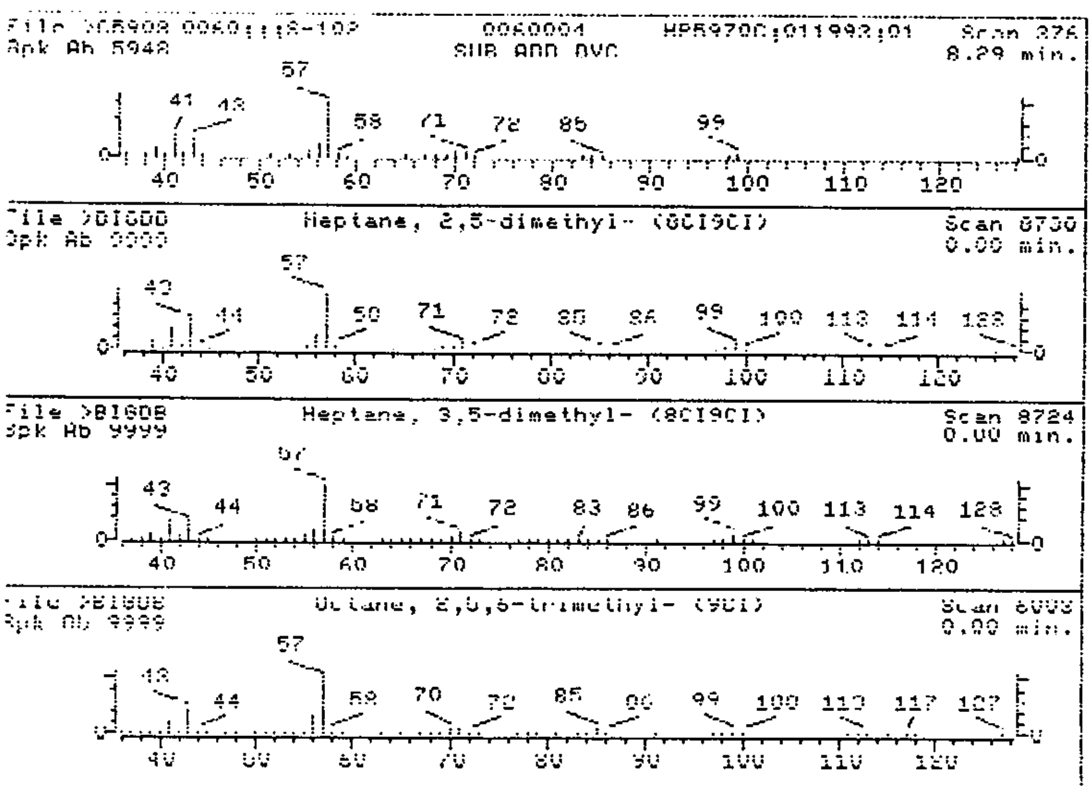
Hit record length RSF

1. Heptane, 2,5-dimethyl- (8CI9CI) 128 C9H20
2. Heptane, 3,5-dimethyl- (8CI9CI) 128 C9H20
3. Octane, 2,5,6-trimethyl- (9CI) 156 C11H24
4. Undecane, 6-methyl- (8CI9CI) 170 C12H26

Sample File: >C5908 Spectrum #: 326
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C I R IU
1.	93*	2216300	8730	"BIGDB	69	12	1	0	71	5	68	80
2.	29*	926829	8724	"BIGDB	65	12	1	1	73	11	43	66
3.	28	62016142	6003	"BIGDB	42	45	2	0	70	3	55	14
4.	60	17302339	8562	"BIGDB	40	38	2	0	100	12	30	14

Peak#: 22 Area: 40651. Est Conc: 140. Date: 01/29/93 18:19 Inst: C



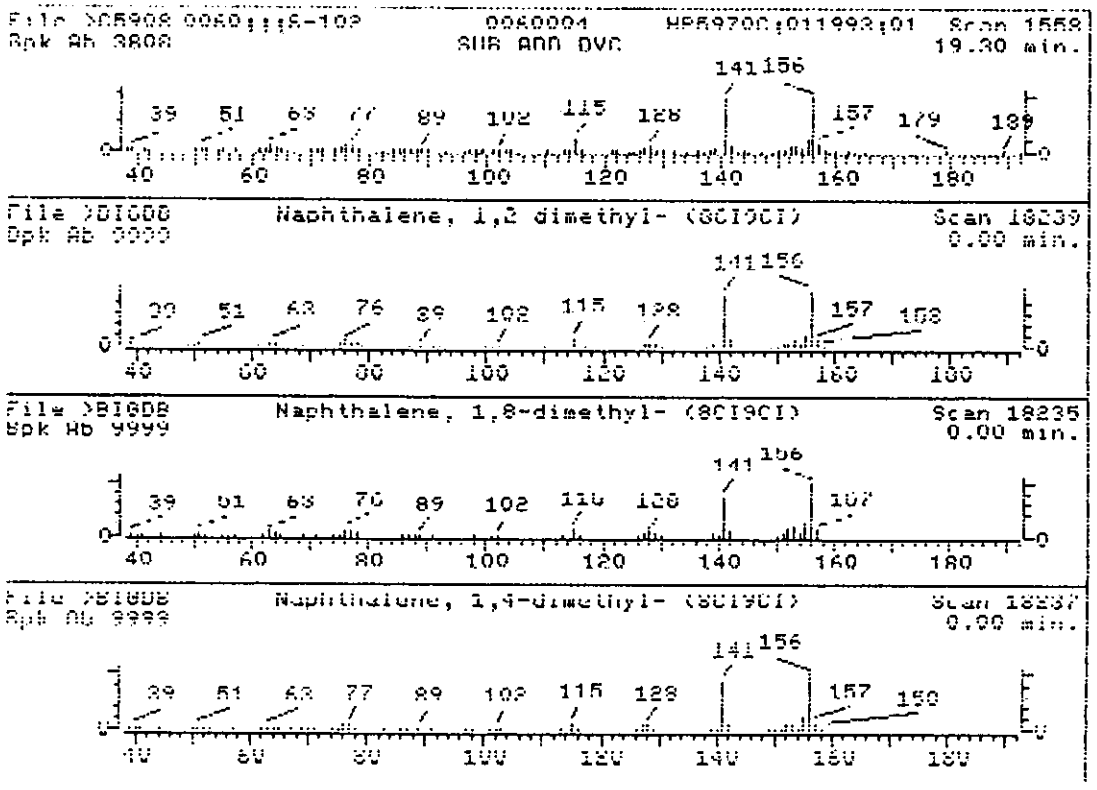
Std sound length RSP

1. Naphthalene, 1,2-dimethyl- (8CI,9CI) 156 C12H12
2. Naphthalene, 1,8-dimethyl- (8CI,9CI) 156 C12H12
3. Naphthalene, 1,4-dimethyl- (8CI,9CI) 156 C12H12
4. Naphthalene, 2,3-dimethyl- (8CI,9CI) 156 C12H12

Sample File: >C5908R Spectrum #: 1558
Search speed: 3 Tilting option: S No. of ion ranges searched: 52

	Prob.	CAS #	COIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	9/*	573988	18239	"BIGDB	104	9	0	0	90	3	72		97	
2.	9/*	569415	18235	"BIGDB	102	8	0	0	85	3	72		97	
3.	9/*	571584	18237	"BIGDB	100	8	0	0	95	3	72		97	
4.	9/*	581408	18243	"BIGDB	99	7	0	0	93	3	72		97	

Peak#: 113 Area: 67749. Est Conc: 130. Date: 01/29/93 18:19 Inst: C

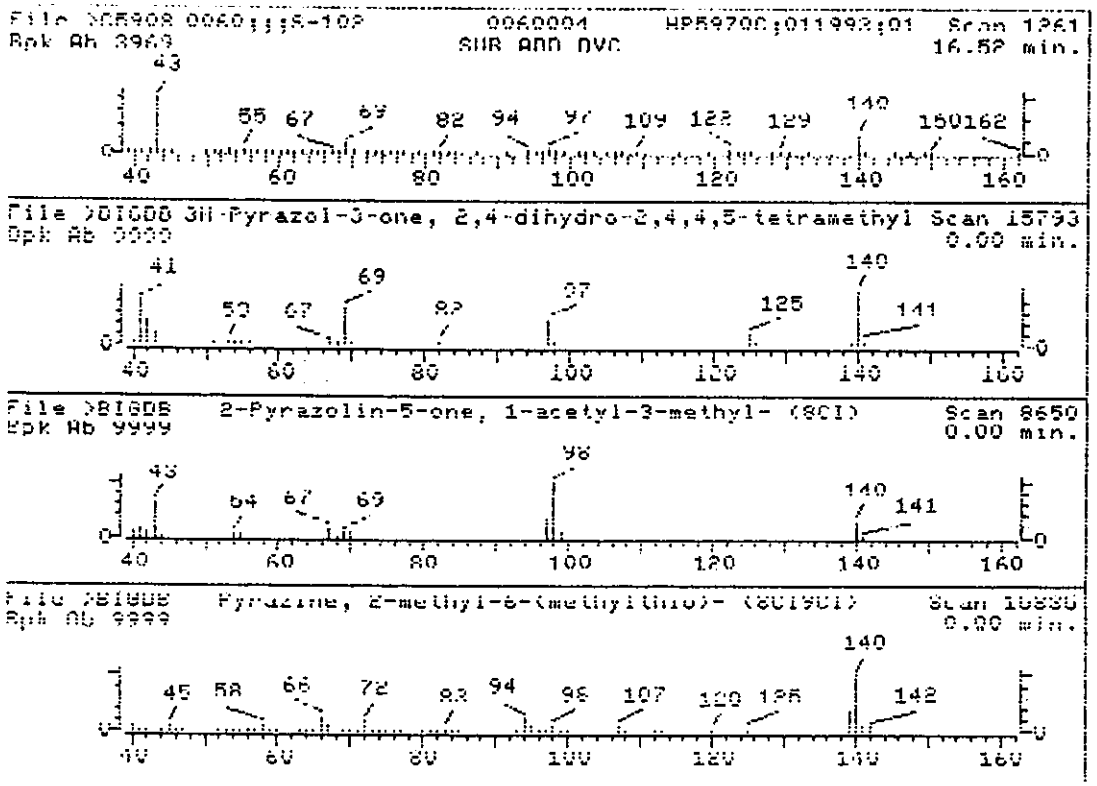


1. 3H-Pyrazol-3-one, 2,4-dihydro-2,4,4,5-tetramethyl- (140 C7H12N2O
   9CI)
2. 2-Pyrazolin-5-one, 1-acetyl-3-methyl- (8CI) 140 C6H8N2O2
3. Pyrazine, 2-methyl-6-(methylthio)- (8CI,9CI) 140 C6H8N2S
4. Thieno[3,2-b]thiophene (8CI,9CI) 140 C6H4S2

Sample file: >C59HR Spectrum #: 1261
Search speed: 3 Tilting option: S No. of ion ranges searched: 58

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	22*	3201250	15293	"RIGDB	25	48	3	0	24	40	10	13		
2.	26*	5203929	8650	"BIGDB	26	62	2	0	109	45	8	14		
3.	26*	2884131	15835	"RIGDB	22	23	3	0	33	40	10	12		
4.	25*	251412	15824	"BIGDB	22	54	3	0	33	50	7	12		

Peak#: 98 Area: 44458. Est Conc: 110. Date: 01/29/93 18:19 Inst: C



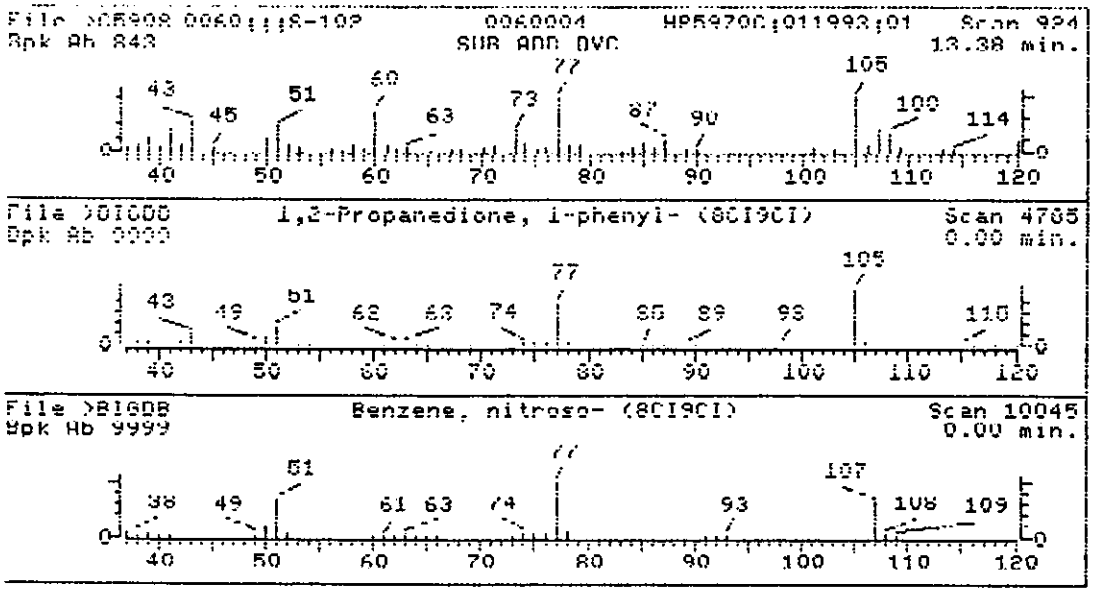
```
 RPN error for command: RSF63
 RPN error:  -5
Bad record length RSF
```

1. 1,2-Propanedione, 1-phenyl- (8CI9CI) 148 C9H8O2
2. Benzene, nitroso- (8CI9CI) 107-C6H5NO

Sample file: >C5908R Spectrum #: 924
Search speed: 3 Tilting option: S No. of ion ranges searched: 59

	Prob.	CAS #	CIN #	NIST	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	29	579177	4785	"BIGDB	50	35	2	0	100	44	8			17
2.	21*	586969	10045	"BIGDB	27	66	2	0	57	54	5			14

Peak#: 24 Area: 30061. Est Conc: 110. Date: 01/29/93 18:19 Inst: C



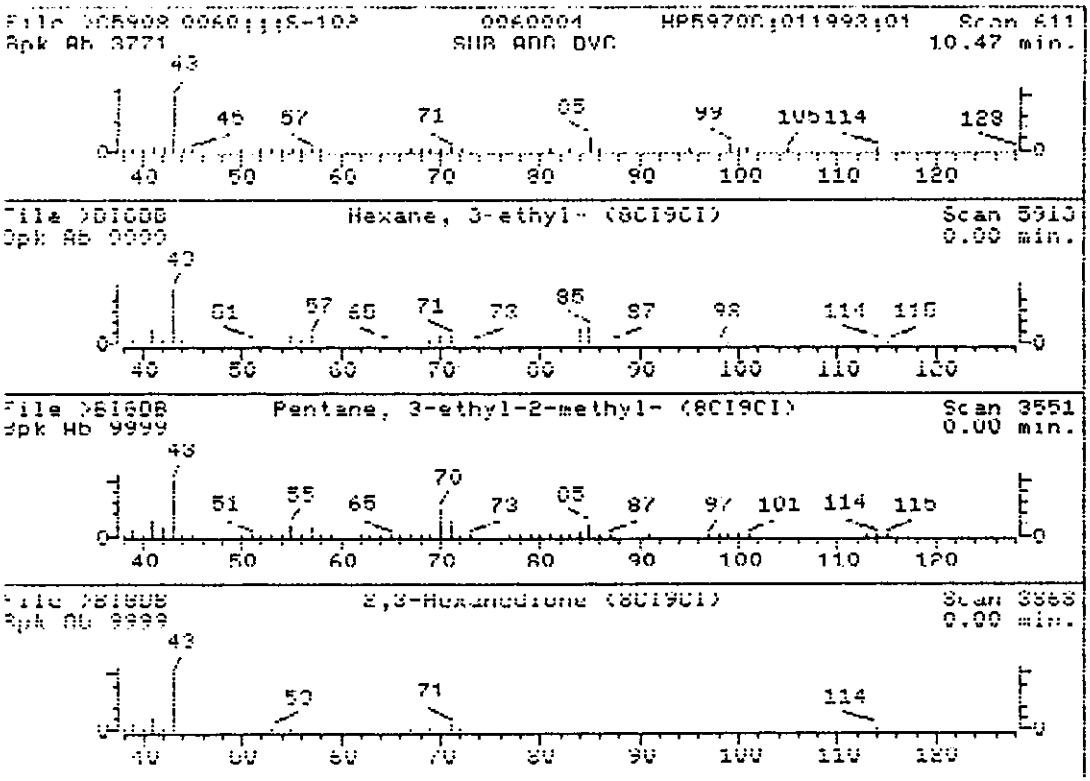
Nist search length RSH

1.	Hexane, 3-ethyl- (8CI9CI)	114 C8H18
2.	Pentane, 3-ethyl-2-methyl- (8CI9CI)	114 C8H18
3.	2,3-Hexanedione (8CI9CI)	114 C6H10O2
4.	Ethanone, 1-(3-ethyloxiranyl)- (9CI)	114 C6H10O2

Sample File: >I59908 Spectrum #: 611
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	NAME	K	DK	#PEG	TIE	%	CON	C	I	R	IO
1.	61*	619998	5913	"BIGDB	29	61	2	0	22	15	30			14
2.	61*	6109262	3551	"BIGDB	23	68	2	0	100	13	30			13
3.	41*	3848246	3848	"BIGDB	36	37	2	0	100	30	14			18
4.	26*	17252812	5933	"BIGDB	28	46	2	0	94	44	8			14

Peak#: 47 Area: 31163. Fst Conc: 110. Date: 01/29/93 18:19 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060004RE 0411

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	28	J
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	15	J
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	710	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102RE

0412

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060004RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	180	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	40	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	630	
120-12-7	Anthracene	340	J
86-74-8	Carbazole	350	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	710	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	730	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	760	
207-08-9	Benzo(k)fluoranthene	670	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	670	
53-70-3	Dibenz(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	280	J

2/18/93

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-102RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0413

Matrix: (soil/water) SOIL amc 2/12/93 Lab Sample ID: 0060004RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 021 amc 2/12/93

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.44	12000	JAB
2.		UNKNOWN	12.87	2100	J
3.			10.76	980	
4.			7.72	980	B
5.			7.86	900	
6.			10.38	1040	
7.			10.07	500	
8.		UNKNOWN HYDROCARBON	7.21	400	
9.		UNKNOWN	10.96	290	
10.		UNKNOWN MW=142	17.50	250	
11.		UNKNOWN	10.32	200	
12.			13.78	190	
13.			14.89	170	
14.		UNKNOWN ALKANE	8.13	140	
15.		UNKNOWN	11.96	140	
16.			16.34	130	
17.		UNKNOWN DIMETHYL NAPHTHALENE	19.11	130	
18.		UNKNOWN ALKANE	19.84	130	
19.			18.44	120	
20.		UNKNOWN	12.74	99	
21.		UNKNOWN DIMETHYL NAPHTHALENE	18.88	92	
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930201 23:46
Output File: ^C5922::QT Injected at: 930201 22:51
Data File: >C5922::C1 Dilution Factor: 18.94000
Name: 0060;;;S-102
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10

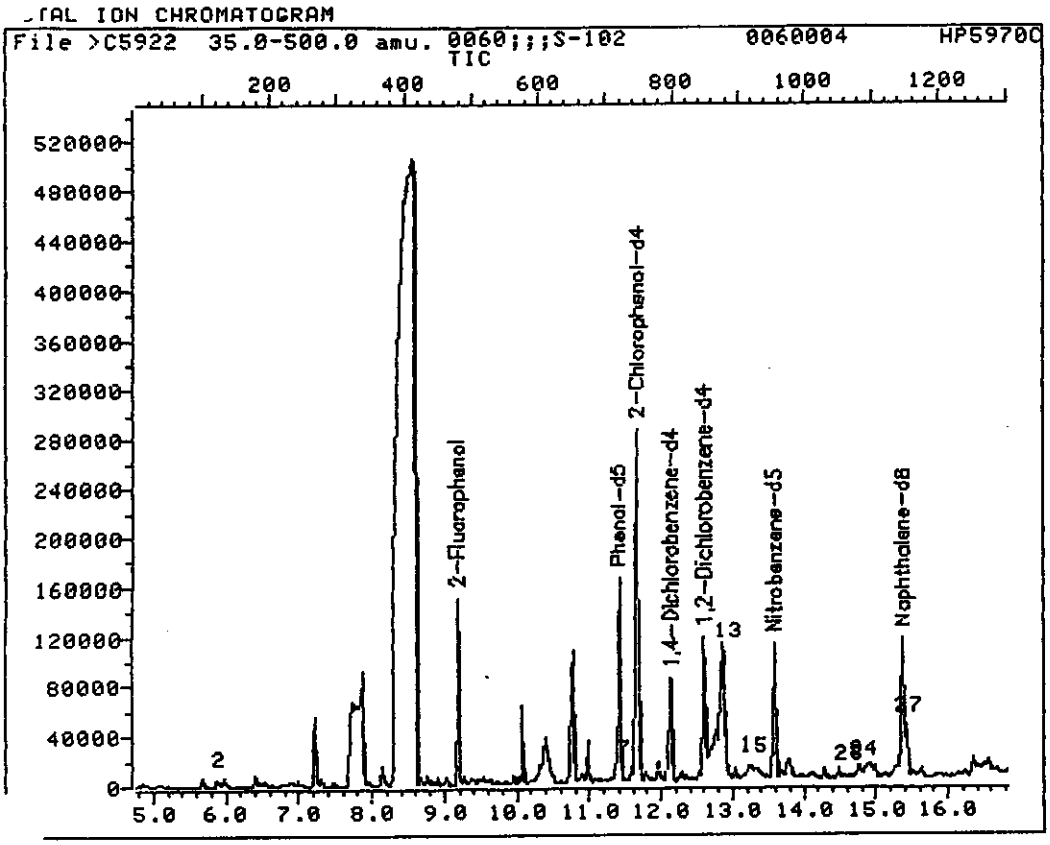
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.12	151.8	28059	40.00	ug	98
2)	Pyridine	5.87	52.0	4288	97.18	ug	87
3)	2-Chlorophenol-d4	11.66	132.0	79369	1680.81	ug	97
4)	2-Fluorophenol	9.17	111.8	68309	1655.59	ug	93
5)	Phenol-d5	11.40	98.8	111156	1862.87	ug	77
7)	bis(2-Chloroethyl)ether	11.45	92.7	313^	5.70	ug	58
10)	1,4-Dichlorobenzene	12.16	145.7	386	5.70	ug	84
11)	1,2-Dichlorobenzene-d4	12.59	152.0	37523	1119.55	ug	87
17)	2-Methylphenol	12.87	107.8	234	5.58	ug	70
15)	4-Methylphenol	13.23	107.8	1236^	27.51	ug	77
1	*Naphthalene-d8	15.36	135.9	117246	40.00	ug	96
1>	Nitrobenzene-d5	13.58	81.8	76167	1163.83	ug	97
23)	2,4-Dimethylphenol	14.56	106.8	888	15.25	ug	94
24)	bis(2-Chloroethoxy)methane	14.79	93.8	264^	3.72	ug	88
27)	Naphthalene	15.41	127.9	40523	282.11	ug	84
31)	2-Methylnaphthalene	17.22	141.9	24741	226.45	ug	93
32)	*Acenaphthene-d10	20.01	163.9	81765	40.00	ug	89
36)	2-Fluorobiphenyl	18.25	171.8	177837	1358.70	ug	92
40)	Acenaphthylene	19.62	152.0	123856	711.26	ug	96
43)	Acenaphthene	20.11	152.9	5677	42.94	ug	76
45)	4-Nitrophenol	20.37	108.8	368	18.72	ug	39
46)	Dibenzofuran	20.52	167.8	32618	185.84	ug	93
48)	Diethylphthalate	21.27	148.8	7143	39.76	ug	84
49)	4-Chlorophenyl-phenylether	21.65	203.9	213^	3.43	ug	94
50)	Fluorene	21.44	165.9	8079	65.62	ug	79
51)	4-Nitroaniline	21.37	137.9	253^	18.53	ug	71
52)	2,4,6-Tribromophenol	22.17	329.6	105516	2563.76	ug	96
53)	*Phenanthrene-d10	23.96	187.9	109031	40.00	ug	96
54)	4,6-Dinitro-2-methylphenol	21.99	197.9	53	2.70	ug	26
55)	N-Nitrosodiphenylamine-(1)	21.89	168.9	2095	42.54	ug	48
56)	4-Bromophenyl-phenylether	22.86	247.9	218^	6.20	ug	14
58)	Pentachlorophenol	23.64	265.6	326^	11.98	ug	61
59)	Phenanthrene	24.02	177.9	92216	631.40	ug	96
60)	Carbazole	24.58	166.8	15034	347.74	ug	96
61)	Anthracene	24.14	177.9	50734	345.97	ug	96
6	Di-n-butylphthalate	26.09	148.8	2133	10.35	ug	87
6	Fluoranthene	27.32	201.9	34047	217.50	ug	92
64)	*Chrysene-d12	31.43	240.0	18592	40.00	ug	97
65)	Pyrene	27.94	201.9	24731	711.31	ug	98
66)	Terphenyl-d14	28.35	244.0	38325	1420.91	ug	97
67)	Butylbenzylphthalate	29.92	148.8	1338	60.18	ug	81
68)	3,3'-Dichlorobenzidine	31.22	251.9	299	67.39	ug	89

	Compound	R.T.	Q ion	Area	Conc	Units	q
70)	Chrysene	31.51	228.0	29690	1142.23	ug	94
~~71)~~	~~bis(2-Ethylhexyl)phthalate~~	~~31.48~~	~~148.0~~	~~5885~~	~~226.42~~	~~ug~~	~~77~~
72)	*Perylene-d12	38.14	264.0	11299	40.00	ug	99
~~73)~~	~~Di-n-octylphthalate~~	~~33.59~~	~~148.9~~	~~1487~~	~~55.59~~	~~ug~~	~~43~~
74)	Benzo(b)fluoranthene	35.92	252.0	13468	756.45	ug	99
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.06~~	~~252.0~~	~~11377~~	~~639.00~~	~~ug~~	~~99~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~35.92~~	~~252.0~~	~~13468~~	~~793.40~~	~~ug~~	~~99~~
75)	Benzo(k)fluoranthene	36.06	252.0	11377^	670.22	ug	97
76)	Benzo(a)pyrene	37.50	252.0	31410	2089.20	ug	94
77)	Indeno(1,2,3-cd)pyrene	46.54	276.0	8325	673.92	ug	95
78)	Dibenz(a,h)anthracene	46.79	278.0	2351	185.79	ug	94
79)	Benzo(g,h,i)perylene	49.06	276.0	3580^	280.95	ug	81

* Compound is ISTD

Conc 749/93

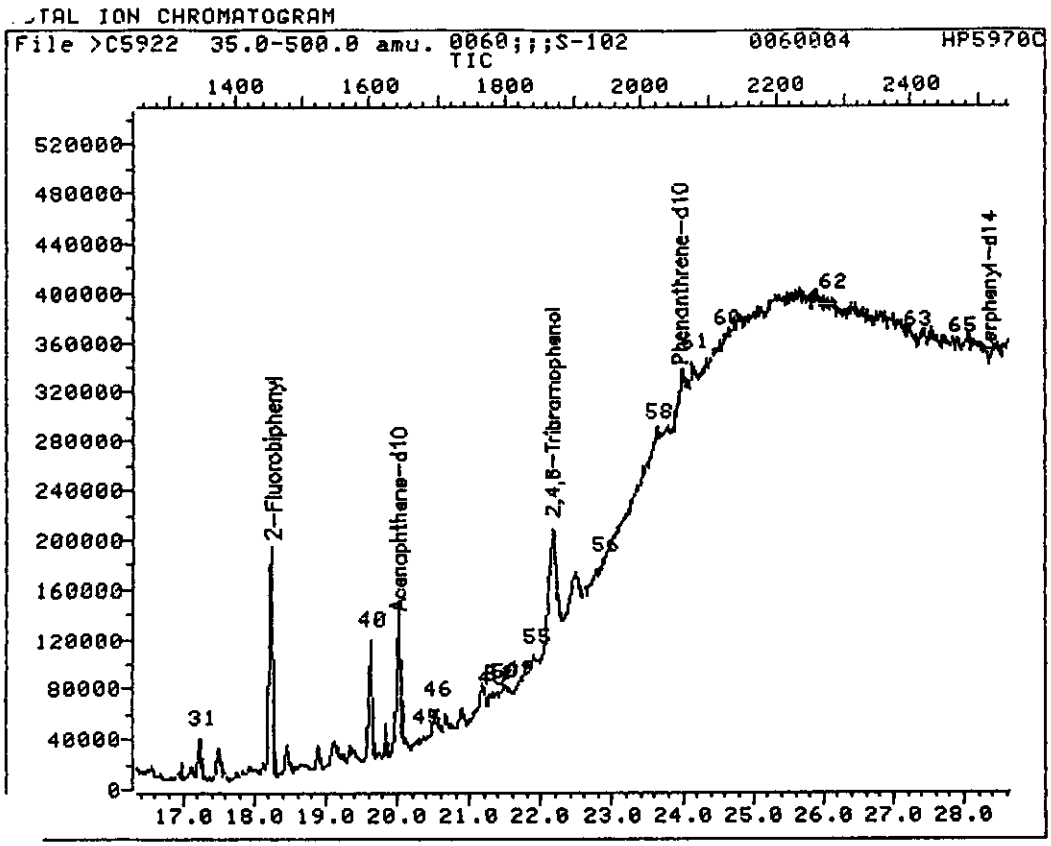


Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 23:46
Injected at: 930201 22:51

TIC page 1 of 4

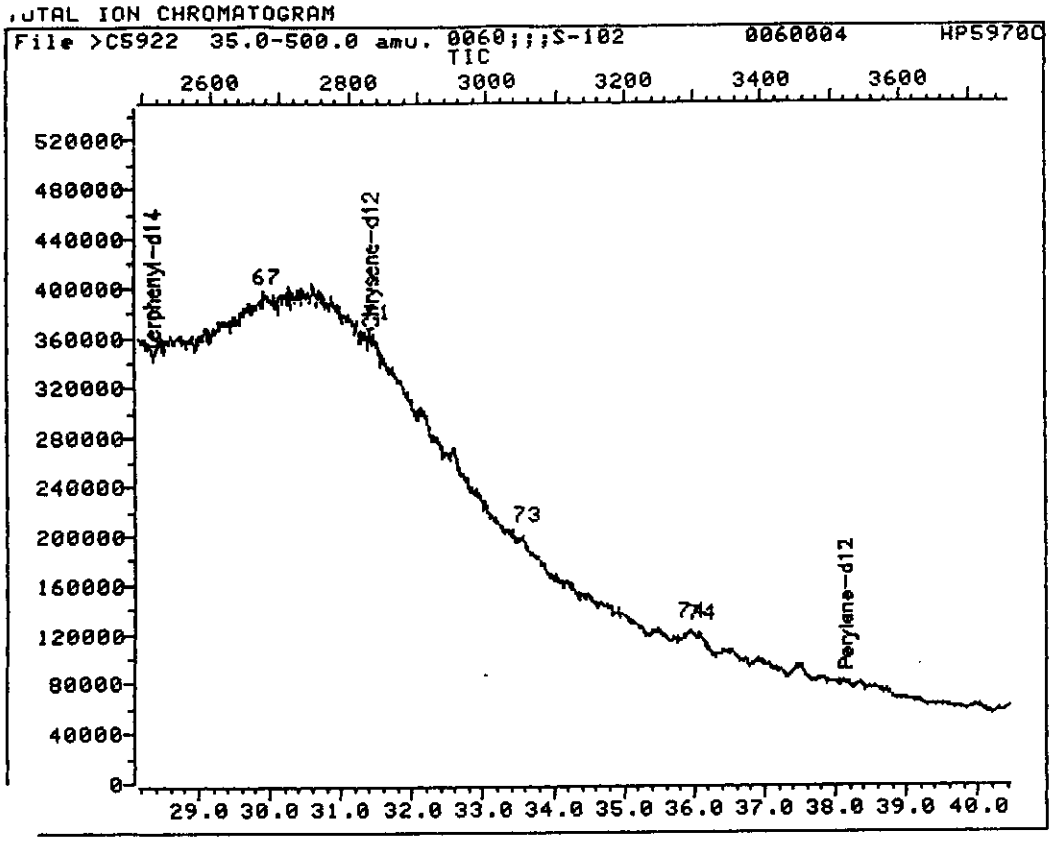


Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 23:46
Injected at: 930201 22:51

TIC page 2 of 4



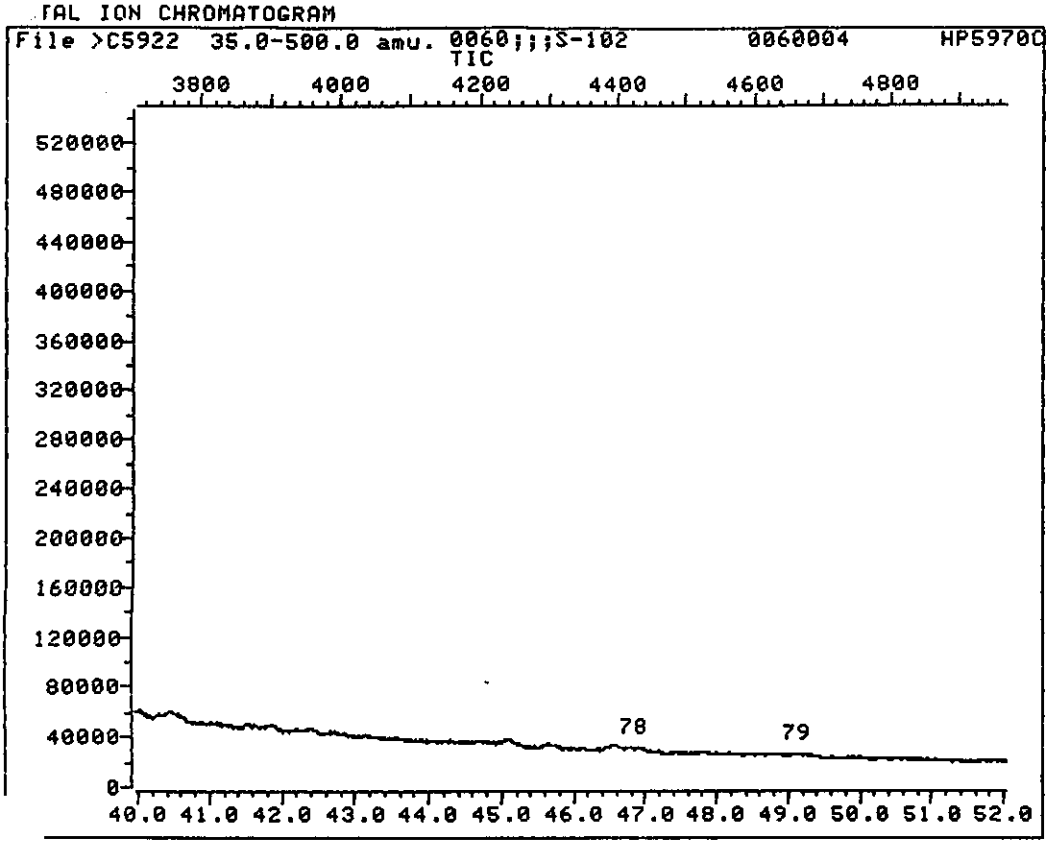
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 23:46
Injected at: 930201 22:51

TIC page 3 of 4

TAL ION CHROMATOGRAM



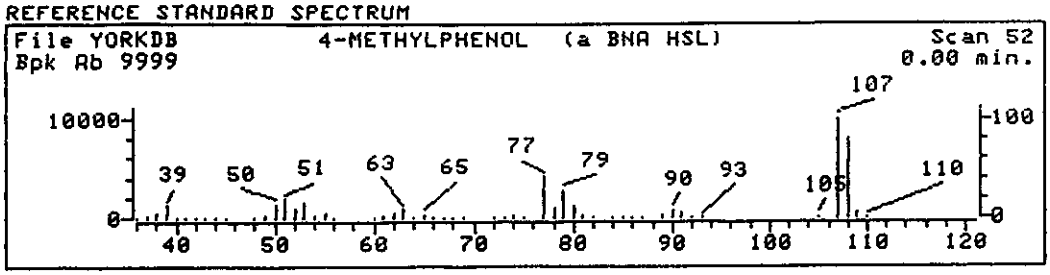
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

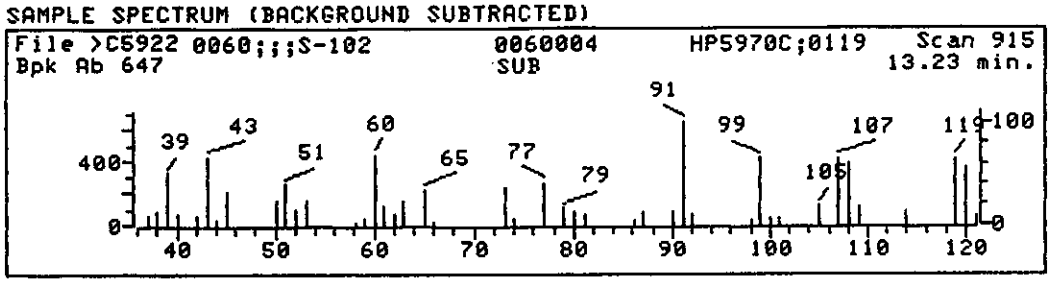
Operator ID: MSC
Quant Time: 930201 23:46
Injected at: 930201 22:51

TIC page 4 of 4

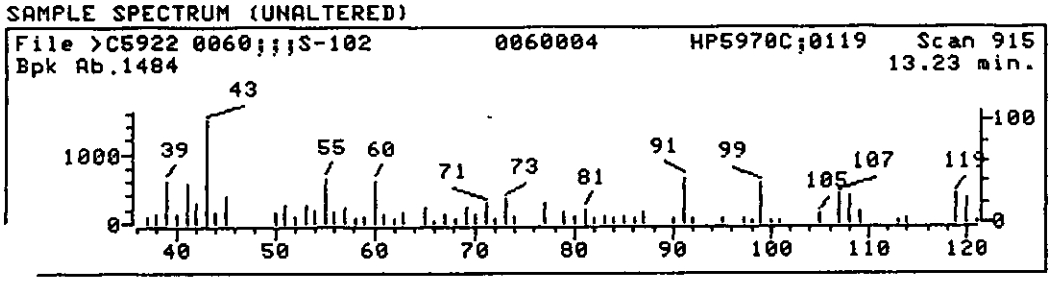
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



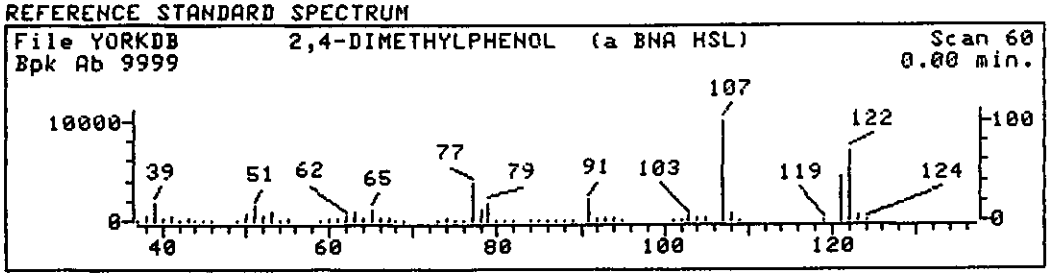
SAMPLE SPECTRUM (UNALTERED)



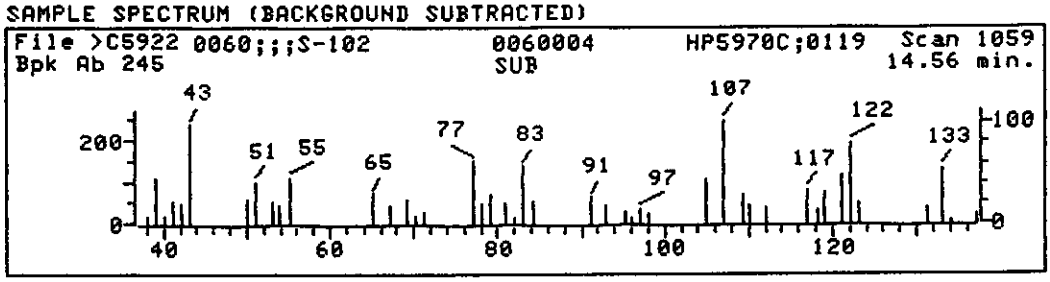
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 15
Compound Name: 4-Methylphenol
Scan Number: 915
Retention Time: 13.23 min.
Quant Ion: 107.8
Area: 1236^
Concentration: 27.51 ug
q-value: 77

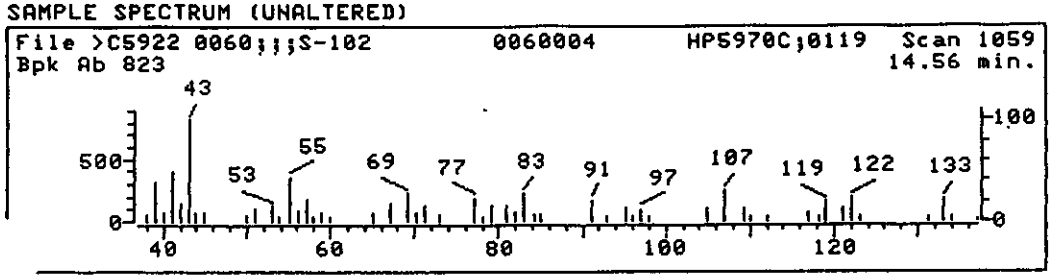
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



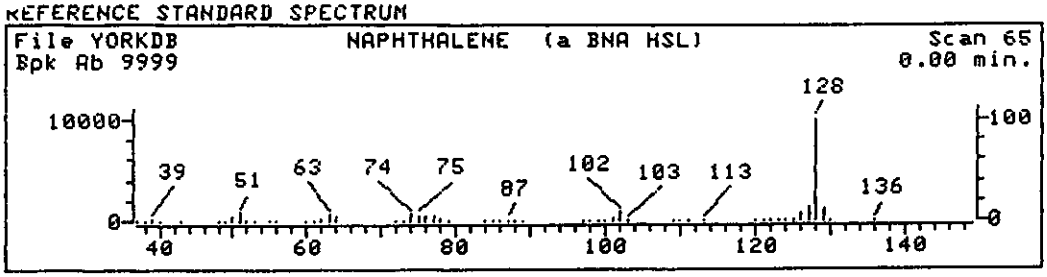
SAMPLE SPECTRUM (UNALTERED)



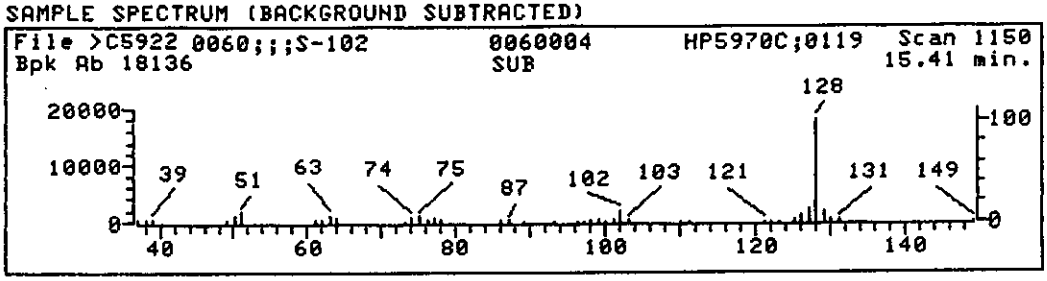
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 23
Compound Name: 2,4-Dimethylphenol
Scan Number: 1059
Retention Time: 14.56 min.
Quant Ion: 106.8
Area: 888
Concentration: 15.25 ug
q-value: 94

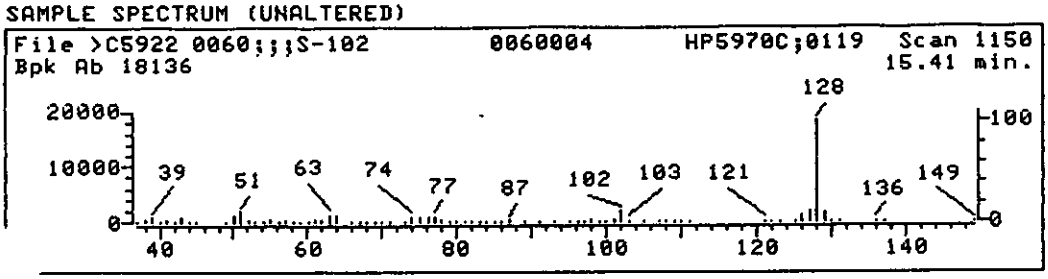
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



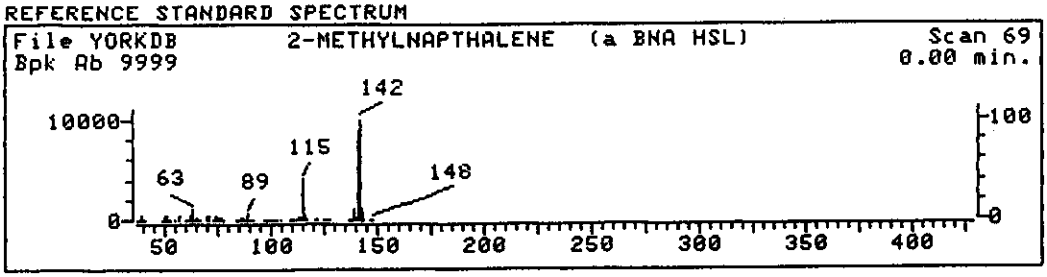
SAMPLE SPECTRUM (UNALTERED)



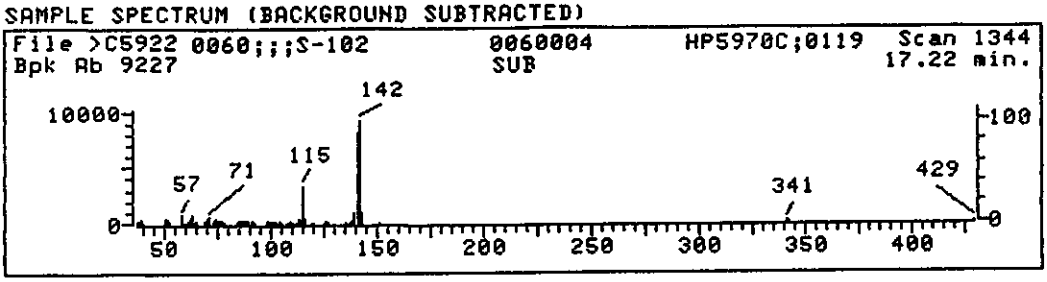
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 27
Compound Name: Naphthalene
Scan Number: 1150
Retention Time: 15.41 min.
Quant Ion: 127.9
Area: 40523
Concentration: 282.11 ug
q-value: 84

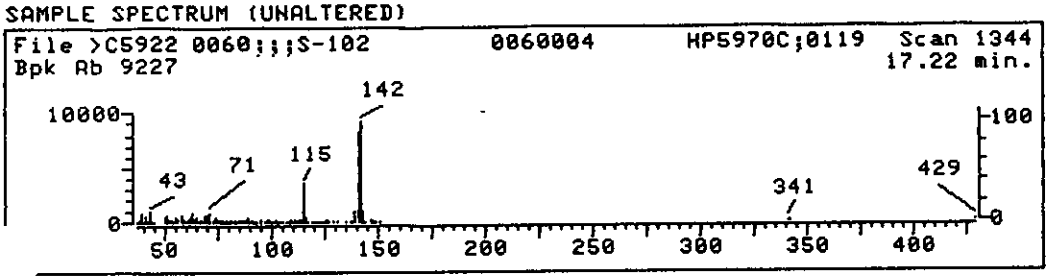
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



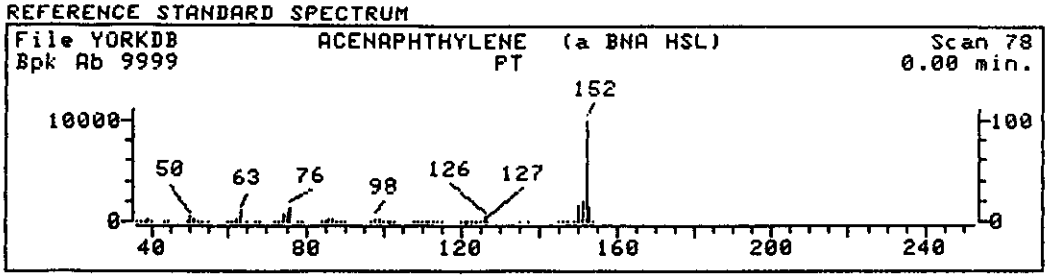
SAMPLE SPECTRUM (UNALTERED)



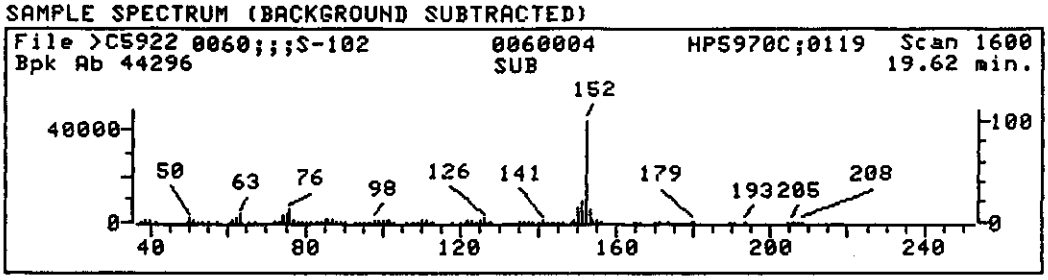
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102Re
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 31
Compound Name: 2-Methylnaphthalene
Scan Number: 1344
Retention Time: 17.22 min.
Quant Ion: 141.9
Area: 24741
Concentration: 226.45 ug
q-value: 93

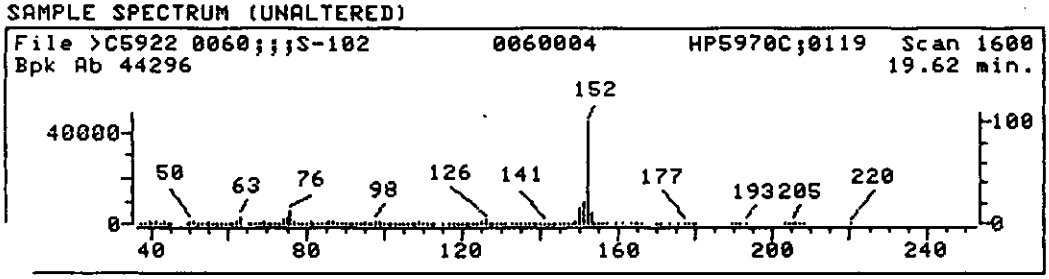
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



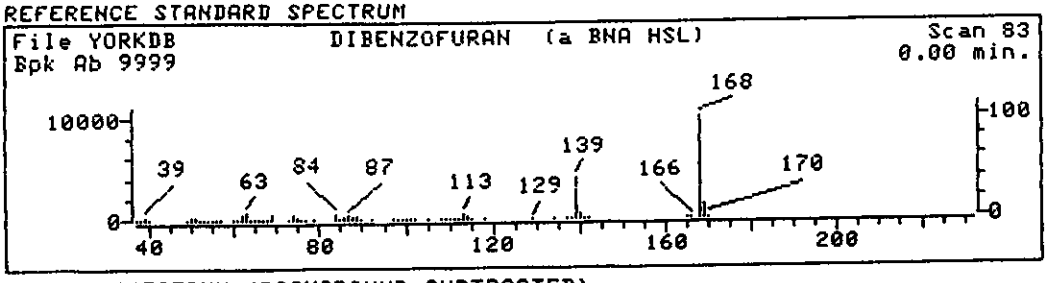
SAMPLE SPECTRUM (UNALTERED)



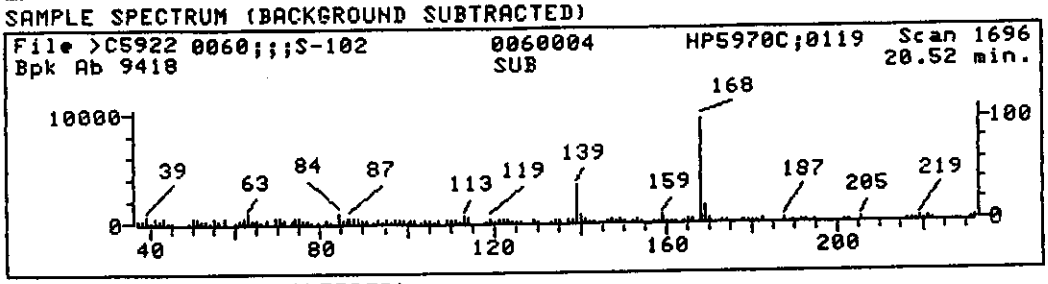
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 40
Compound Name: Acenaphthylene
Scan Number: 1600
Retention Time: 19.62 min.
Quant Ion: 152.0
Area: 123856
Concentration: 711.26 ug
q-value: 96

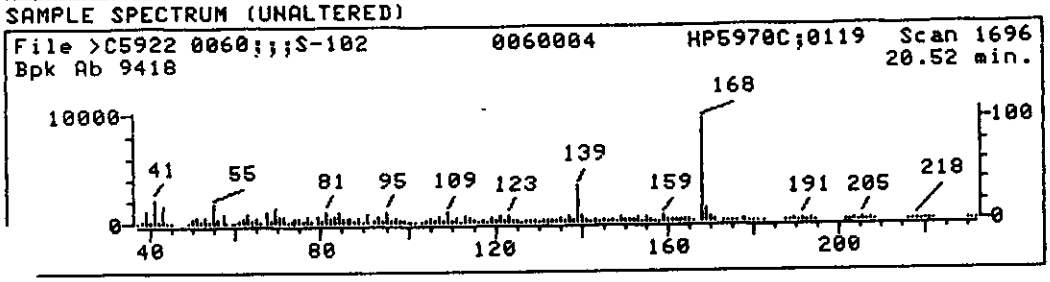
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



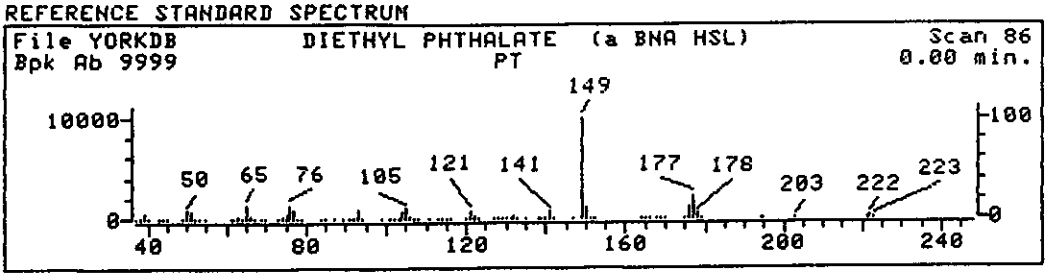
SAMPLE SPECTRUM (UNALTERED)



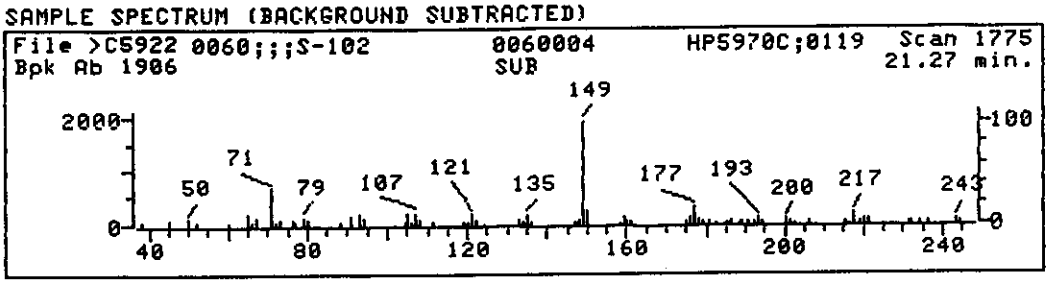
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 46
Compound Name: Dibenzofuran
Scan Number: 1695
Retention Time: 20.52 min.
Quant Ion: 167.8
Area: 32618
Concentration: 185.84 ug
q-value: 93

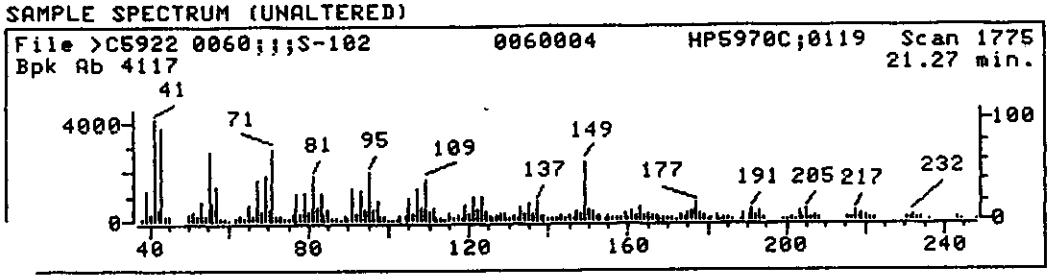
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



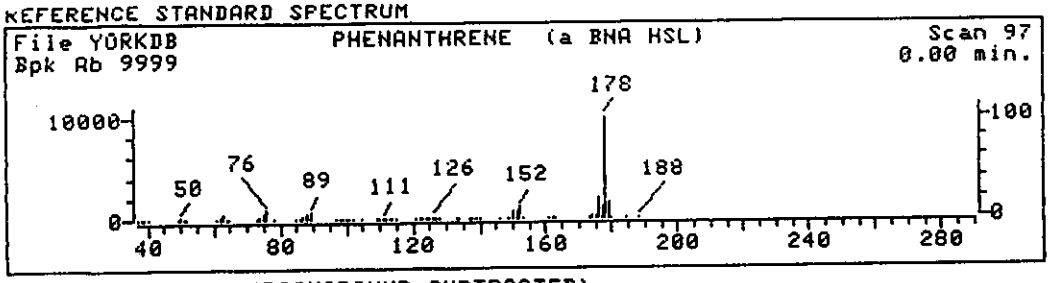
SAMPLE SPECTRUM (UNALTERED)



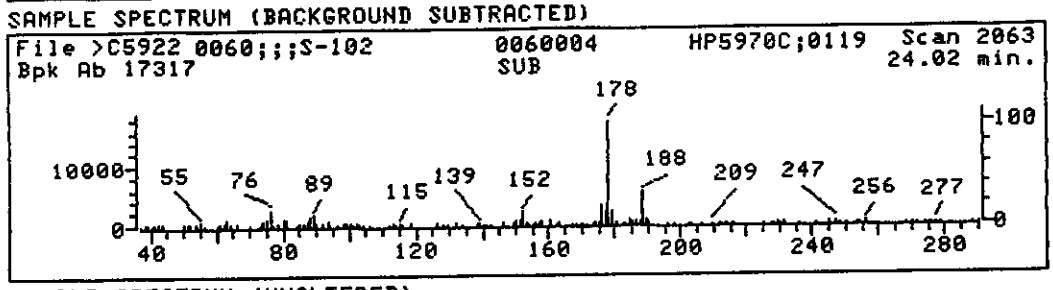
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 48
Compound Name: Diethylphthalate
Scan Number: 1775
Retention Time: 21.27 min.
Quant Ion: 148.8
Area: 7143
Concentration: 39.76 ug
q-value: 84

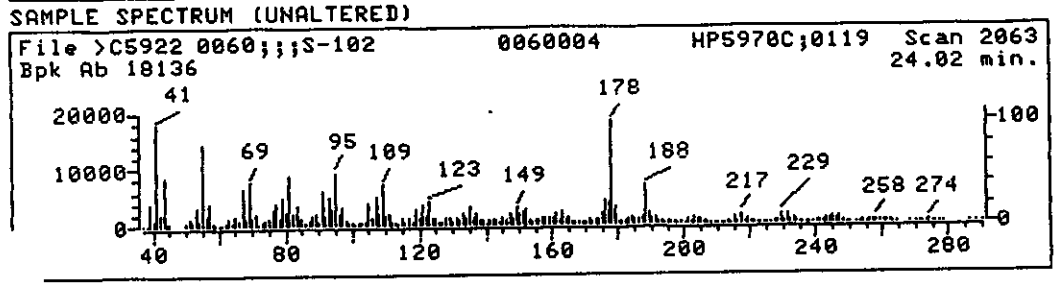
KEFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



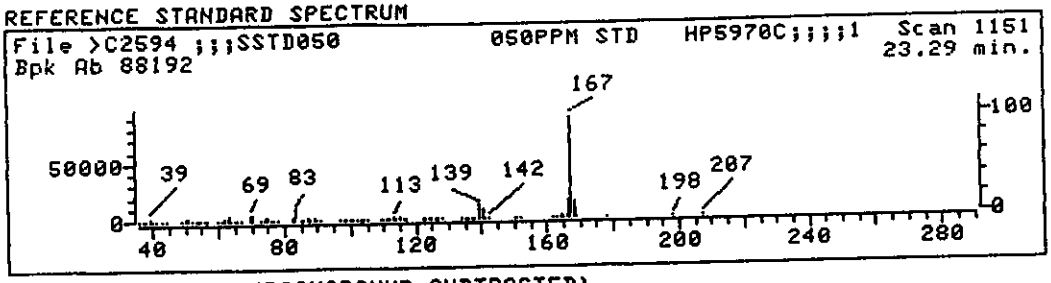
SAMPLE SPECTRUM (UNALTERED)



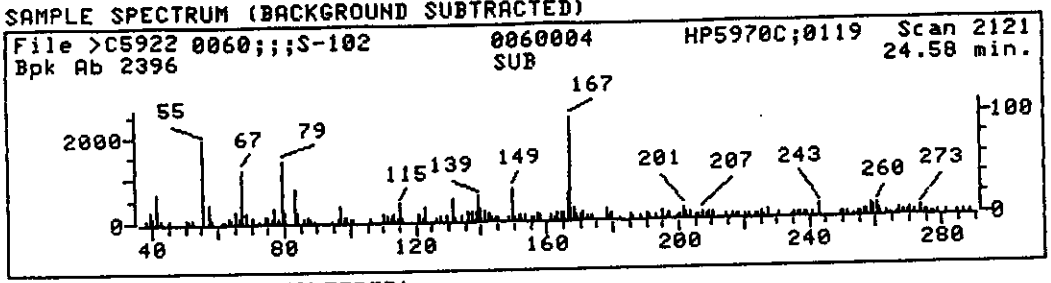
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 59
Compound Name: Phenanthrene
Scan Number: 2063
Retention Time: 24.02 min.
Quant Ion: 177.9
Area: 92216
Concentration: 631.40 ug
q-value: 96

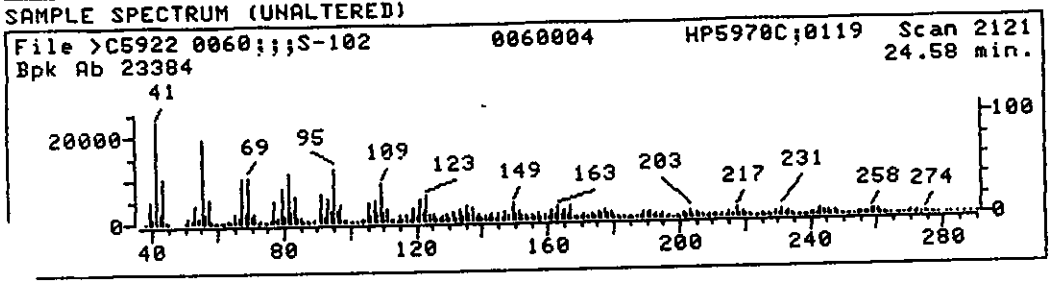
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



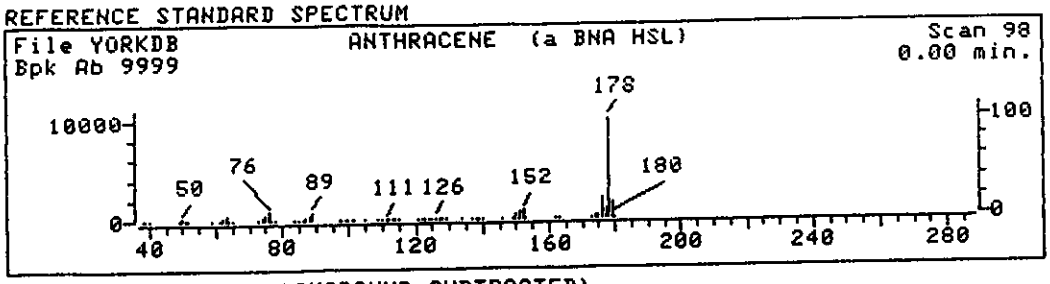
SAMPLE SPECTRUM (UNALTERED)



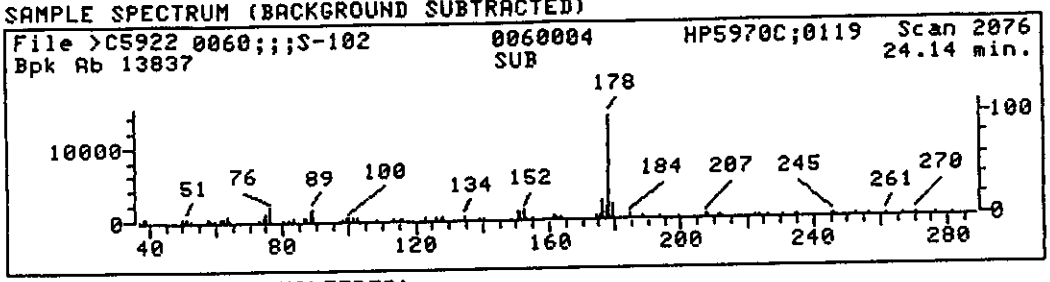
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RC
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 60
Compound Name: Carbazole
Scan Number: 2122
Retention Time: 24.58 min.
Quant Ion: 166.8
Area: 15034
Concentration: 347.74 ug
q-value: 96

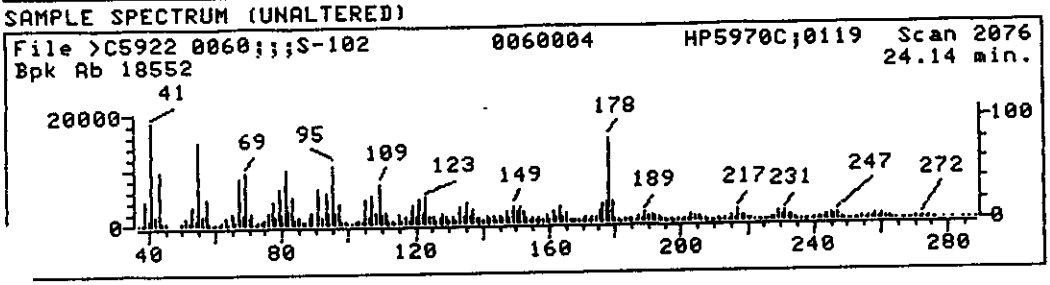
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



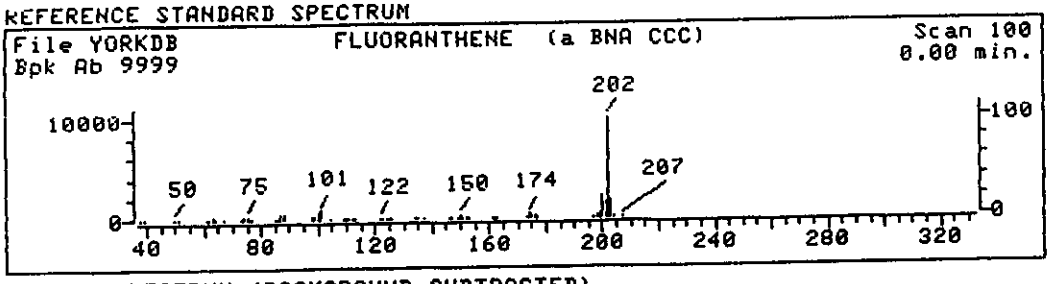
SAMPLE SPECTRUM (UNALTERED)



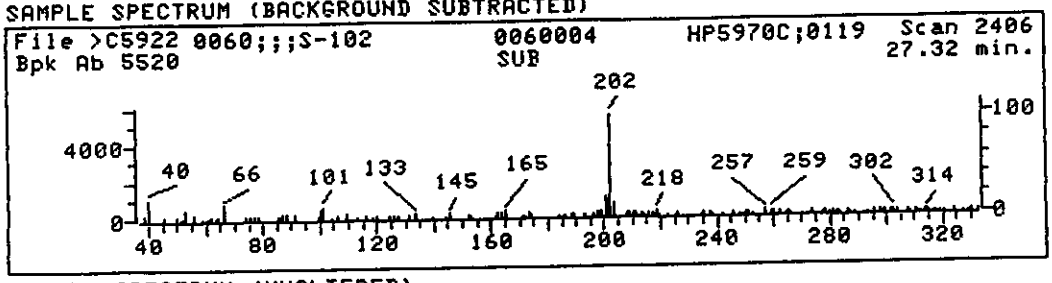
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 61
Compound Name: Anthracene
Scan Number: 2076
Retention Time: 24.14 min.
Quant Ion: 177.9
Area: 50734
Concentration: 345.97 ug
q-value: 96

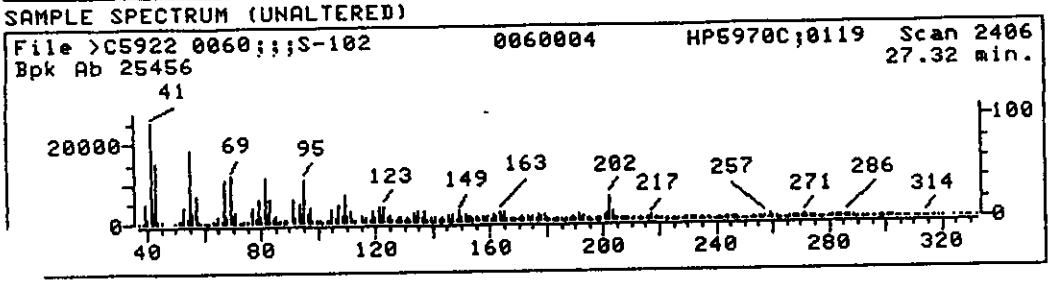
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



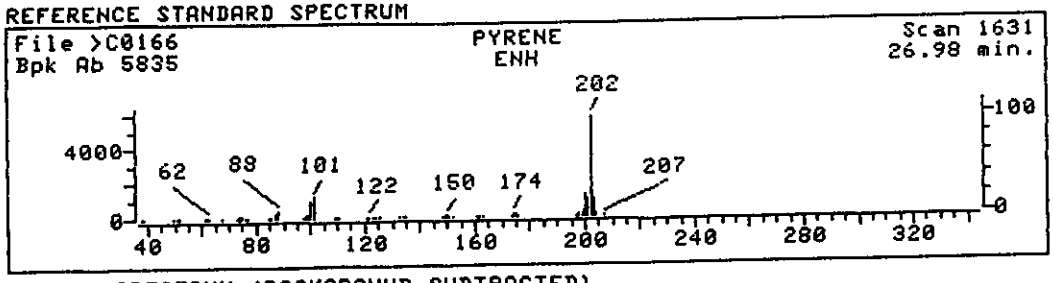
SAMPLE SPECTRUM (UNALTERED)



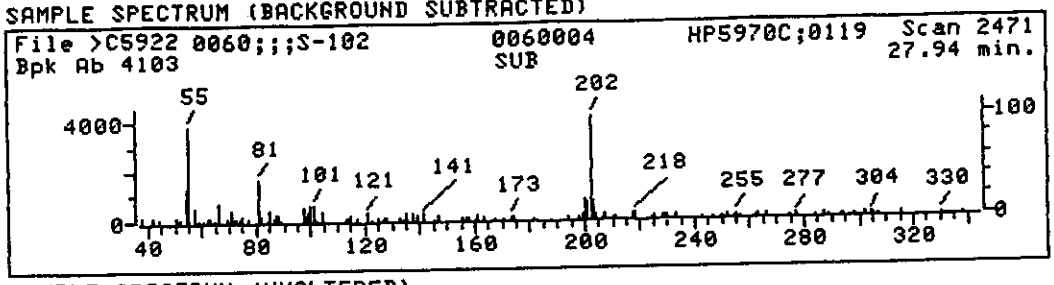
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 63
Compound Name: Fluoranthene
Scan Number: 2406
Retention Time: 27.32 min.
Quant Ion: 201.9
Area: 34047
Concentration: 217.50 ug
q-value: 92

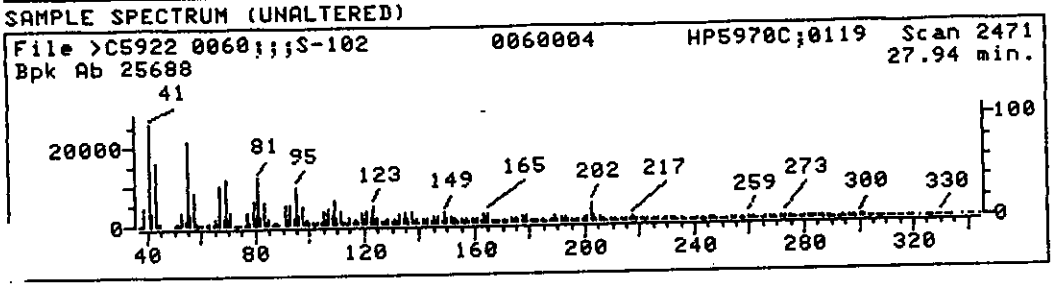
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

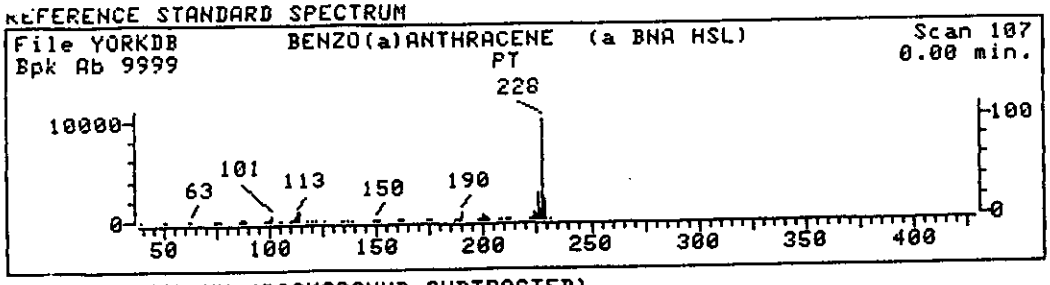


Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

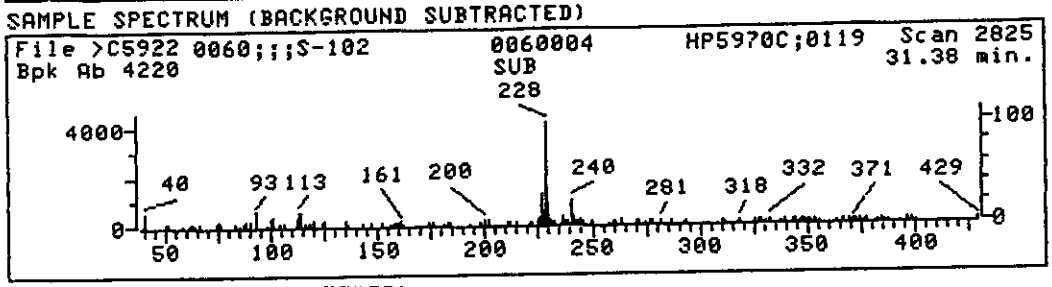
Compound No: 65
Compound Name: Pyrene
Scan Number: 2471
Retention Time: 27.94 min.
Quant Ion: 201.9
Area: 24731
Concentration: 711.31 ug
q-value: 98

0432

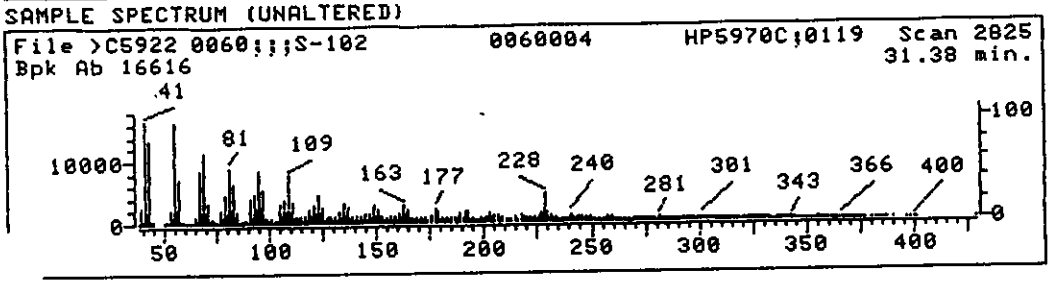
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



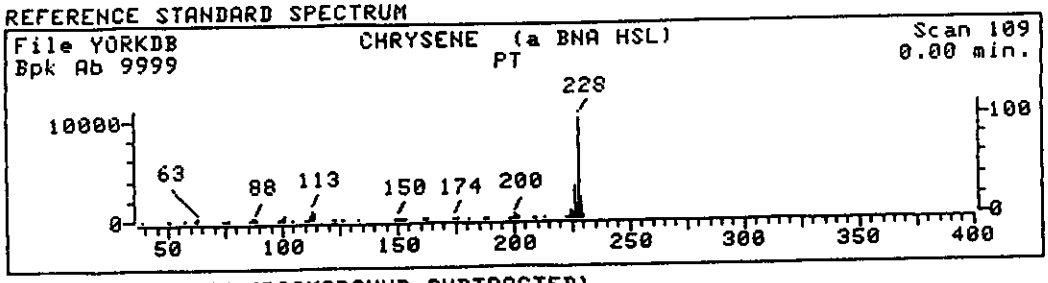
SAMPLE SPECTRUM (UNALTERED)



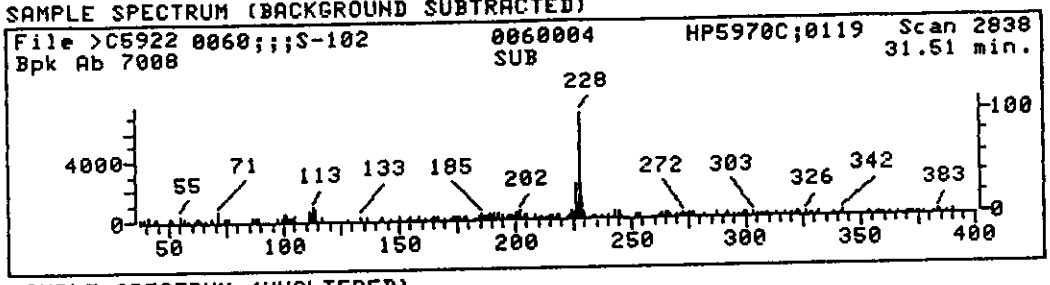
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 69
Compound Name: Benzo(a)anthracene
Scan Number: 2825
Retention Time: 31.38 min.
Quant Ion: 228.0
Area: 22015
Concentration: 730.07 ug
q-value: 92

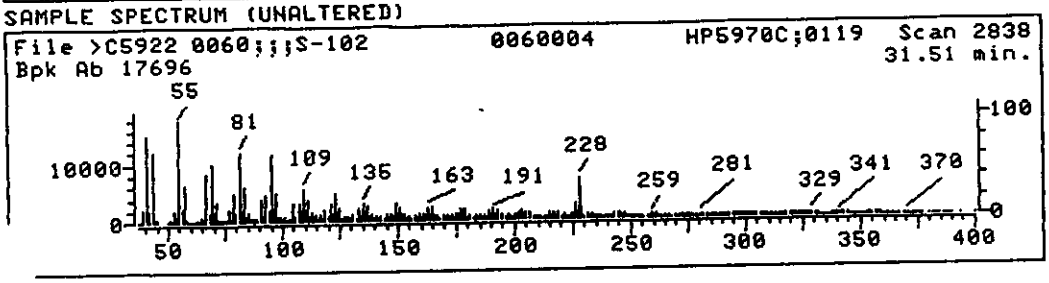
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



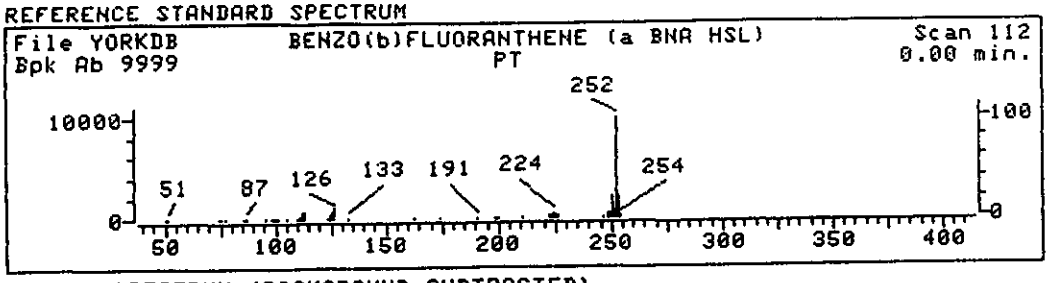
SAMPLE SPECTRUM (UNALTERED)



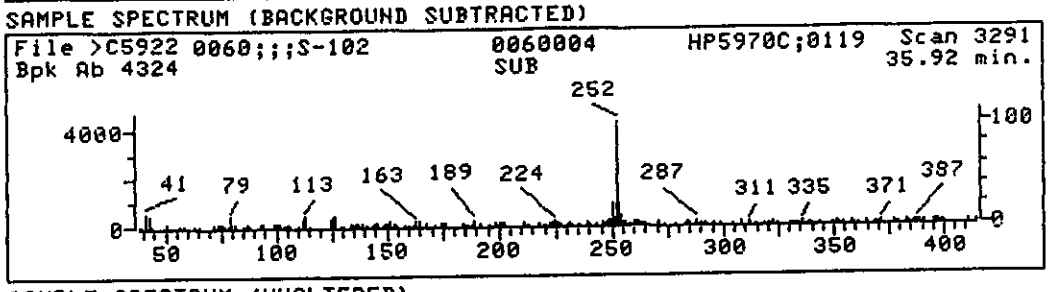
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 70
Compound Name: Chrysene
Scan Number: 2838
Retention Time: 31.51 min.
Quant Ion: 228.0
Area: 29690
Concentration: 1142.23 ug
q-value: 94

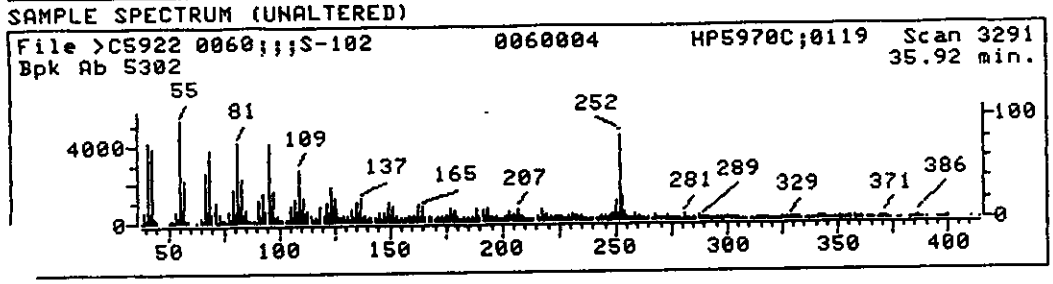
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



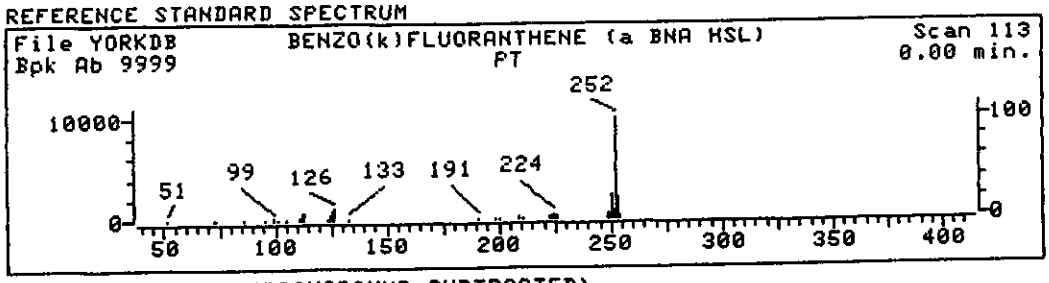
SAMPLE SPECTRUM (UNALTERED)



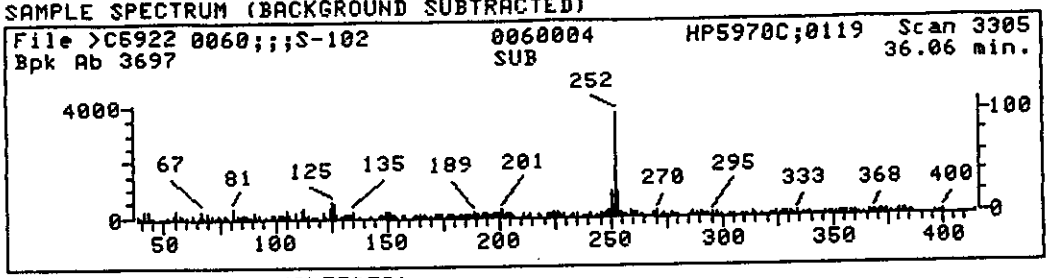
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 74
Compound Name: Benzo(b)fluoranthene
Scan Number: 3291
Retention Time: 35.92 min.
Quant Ion: 252.0
Area: 13468
Concentration: 756.45 ug
q-value: 99

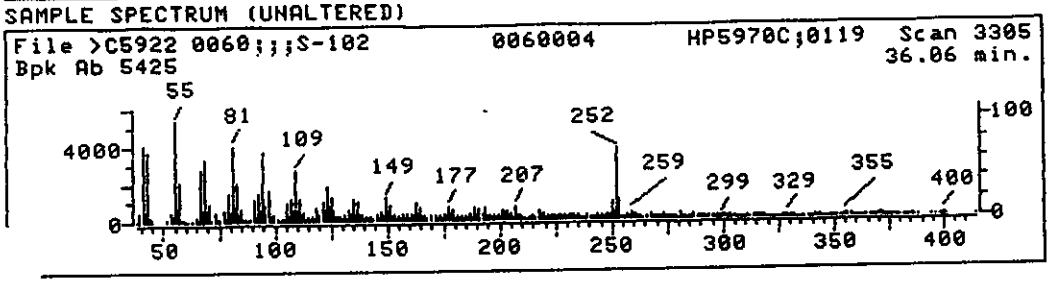
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



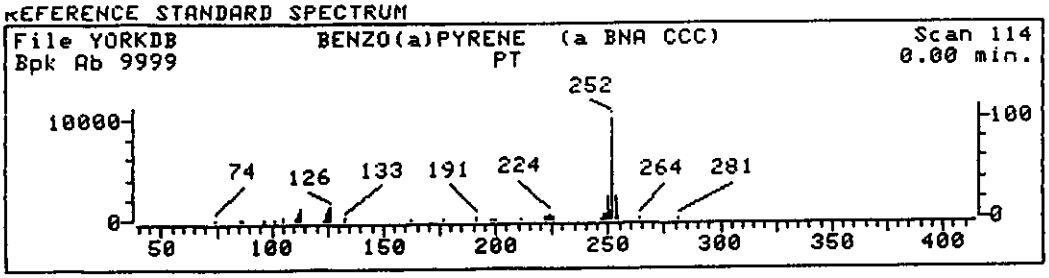
SAMPLE SPECTRUM (UNALTERED)



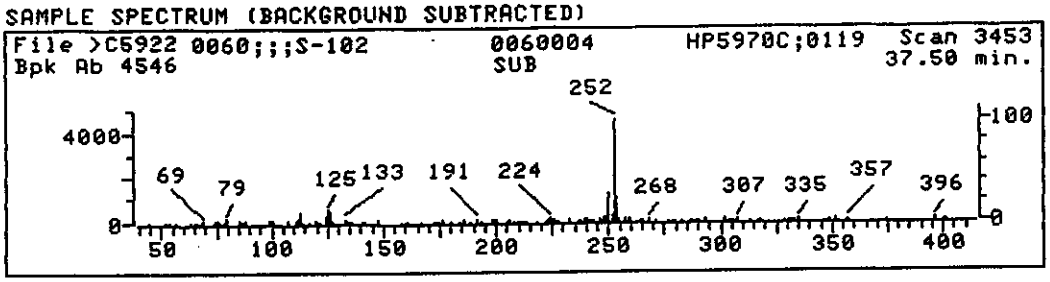
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RC
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 75
Compound Name: Benzo(k)fluoranthene
Scan Number: 3305
Retention Time: 36.06 min.
Quant Ion: 252.0
Area: 11377^
Concentration: 670.22 ug
q-value: 97

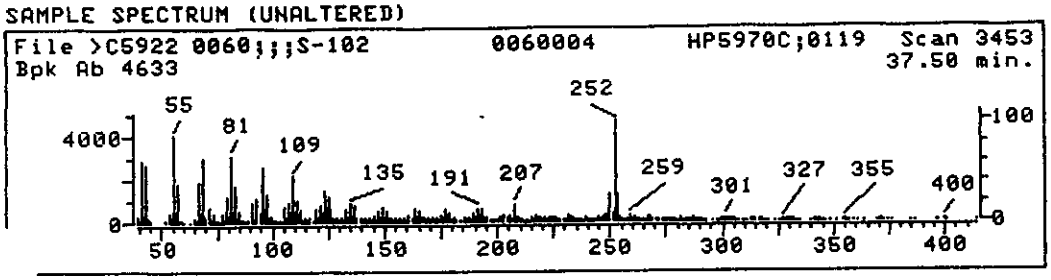
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



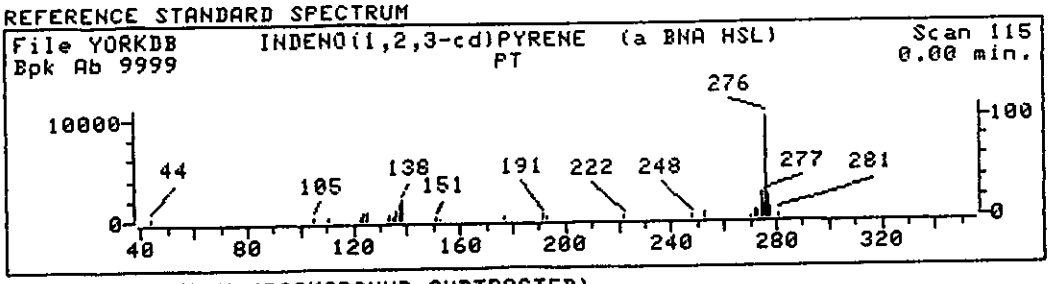
SAMPLE SPECTRUM (UNALTERED)



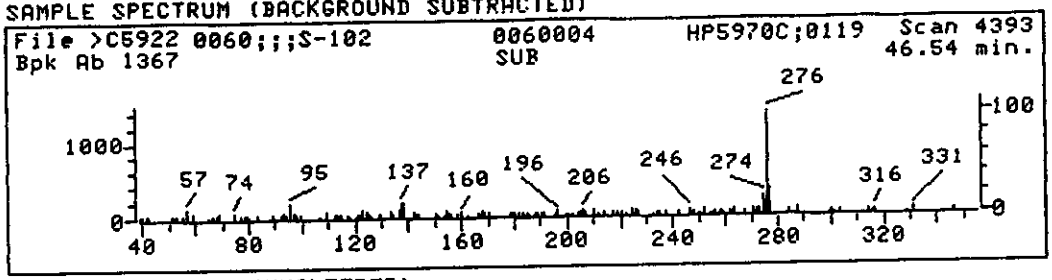
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 76
Compound Name: Benzo(a)pyrene
Scan Number: 3453
Retention Time: 37.50 min.
Quant Ion: 252.0
Area: 31410
Concentration: 2089.20 ug
q-value: 94

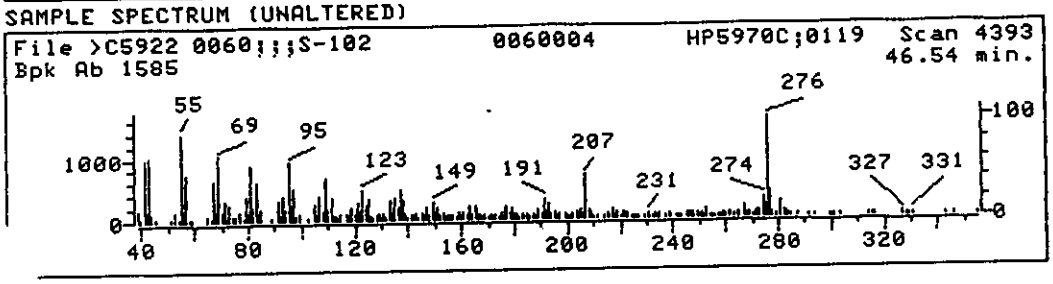
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



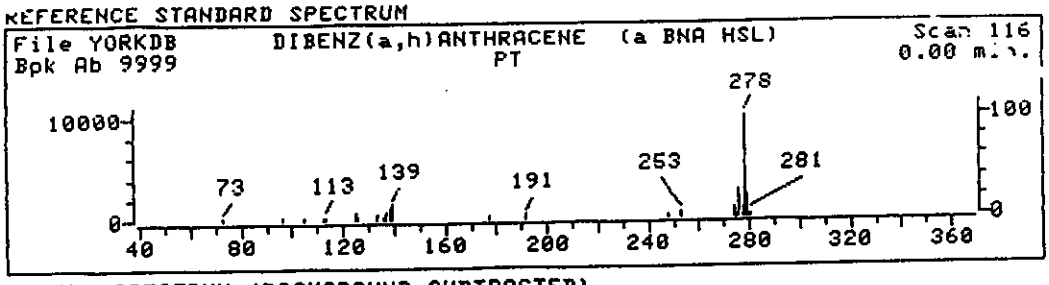
SAMPLE SPECTRUM (UNALTERED)



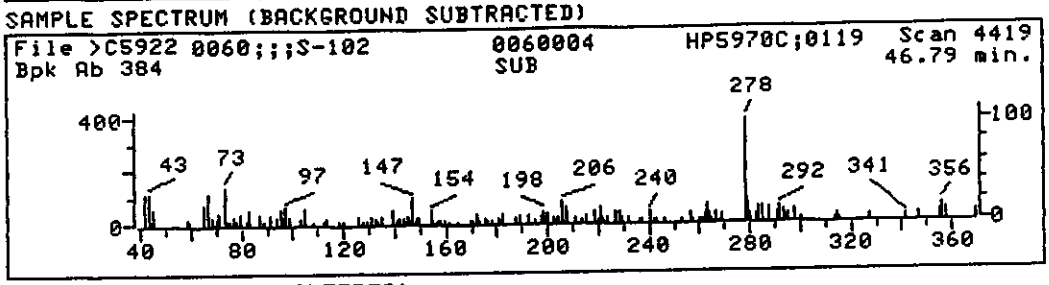
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 77
Compound Name: Indeno(1,2,3-cd)pyrene
Scan Number: 4393
Retention Time: 46.54 min.
Quant Ion: 276.0
Area: 8325
Concentration: 673.92 ug
q-value: 95

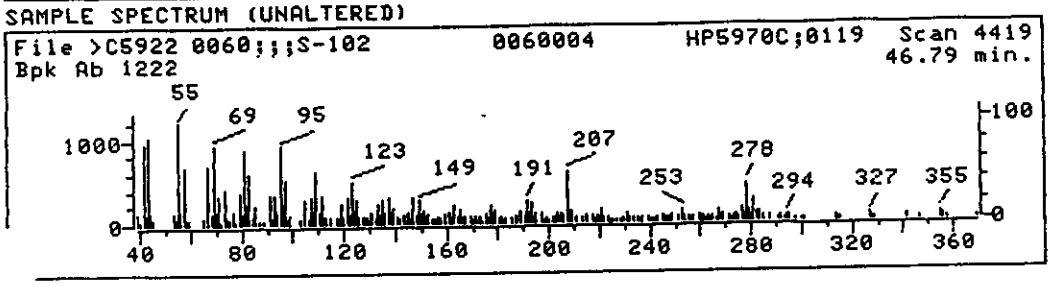
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



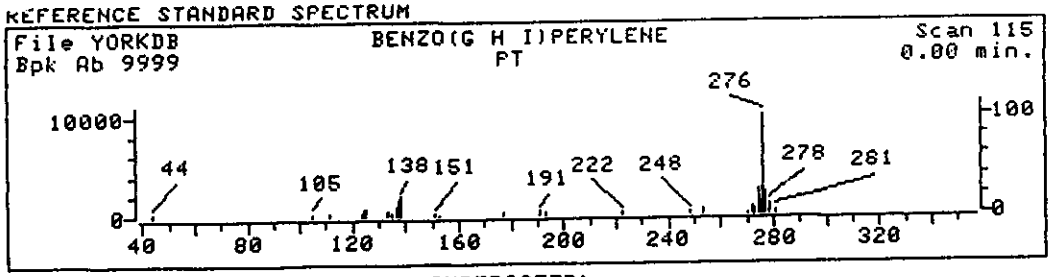
SAMPLE SPECTRUM (UNALTERED)



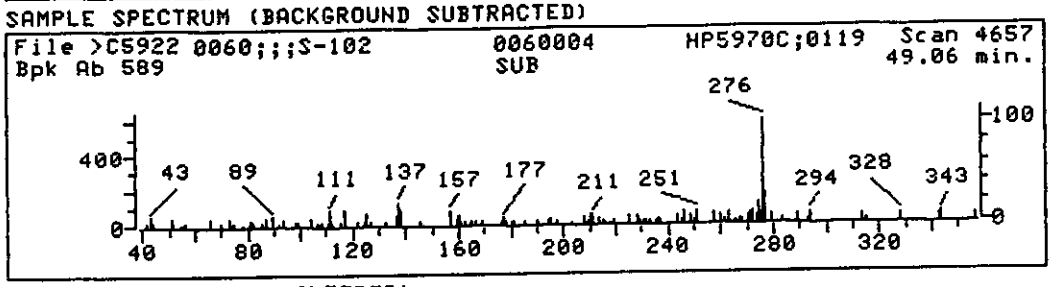
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

Compound No: 78
Compound Name: Dibenz(a,h)anthracene
Scan Number: 4419
Retention Time: 46.79 min.
Quant Ion: 278.0
Area: 2351
Concentration: 185.79 ug
q-value: 94

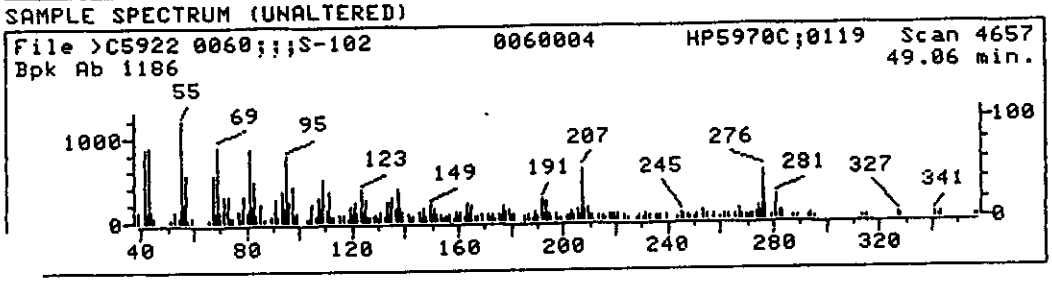
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



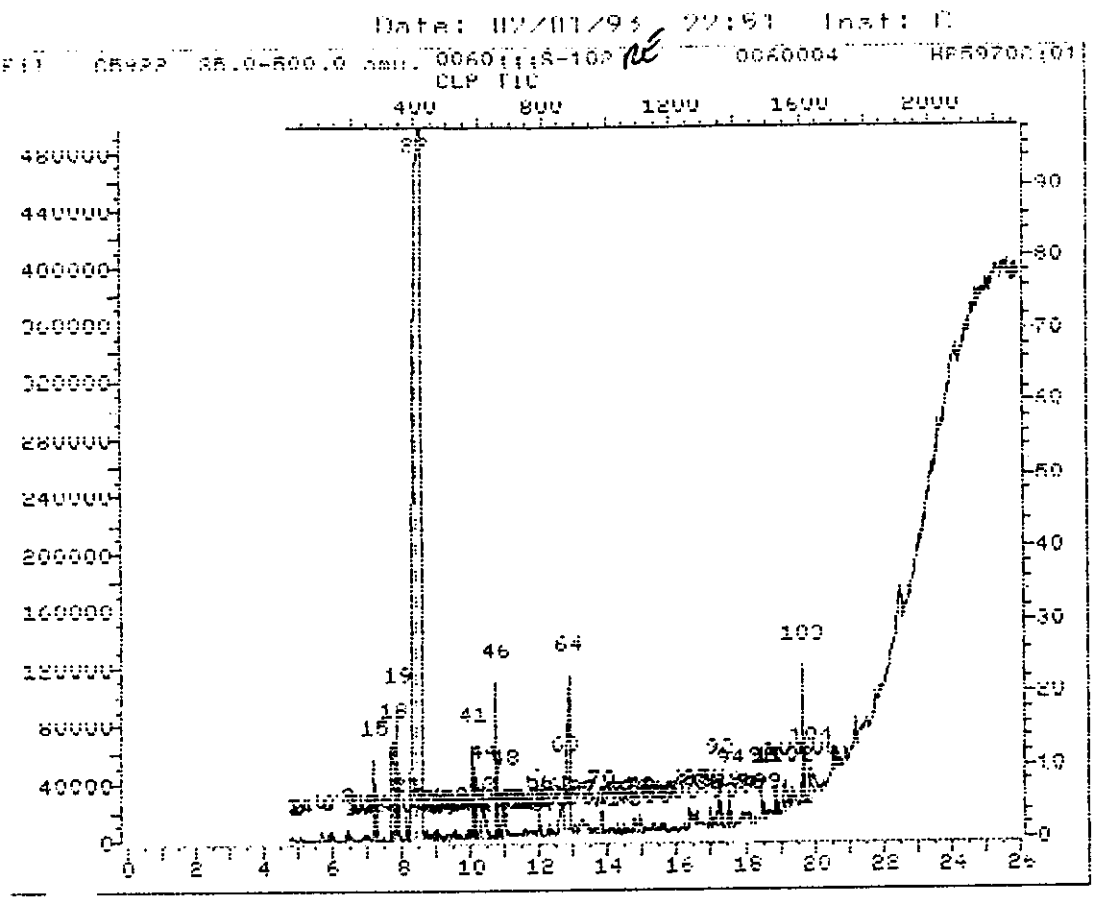
Data File: >C5922::C1 Quant Output File: ^C5922::QT
Name: 0060;;;S-102 RE
Misc: 0060004 HP5970C;011993;012093;LLS;1.0;;7.0;C0952 BTL#10
Quant Time: 930201 23:46 Quant ID File: I_EPA::N1
Injected at: 930201 22:51 Last Calibration: 930201 13:46

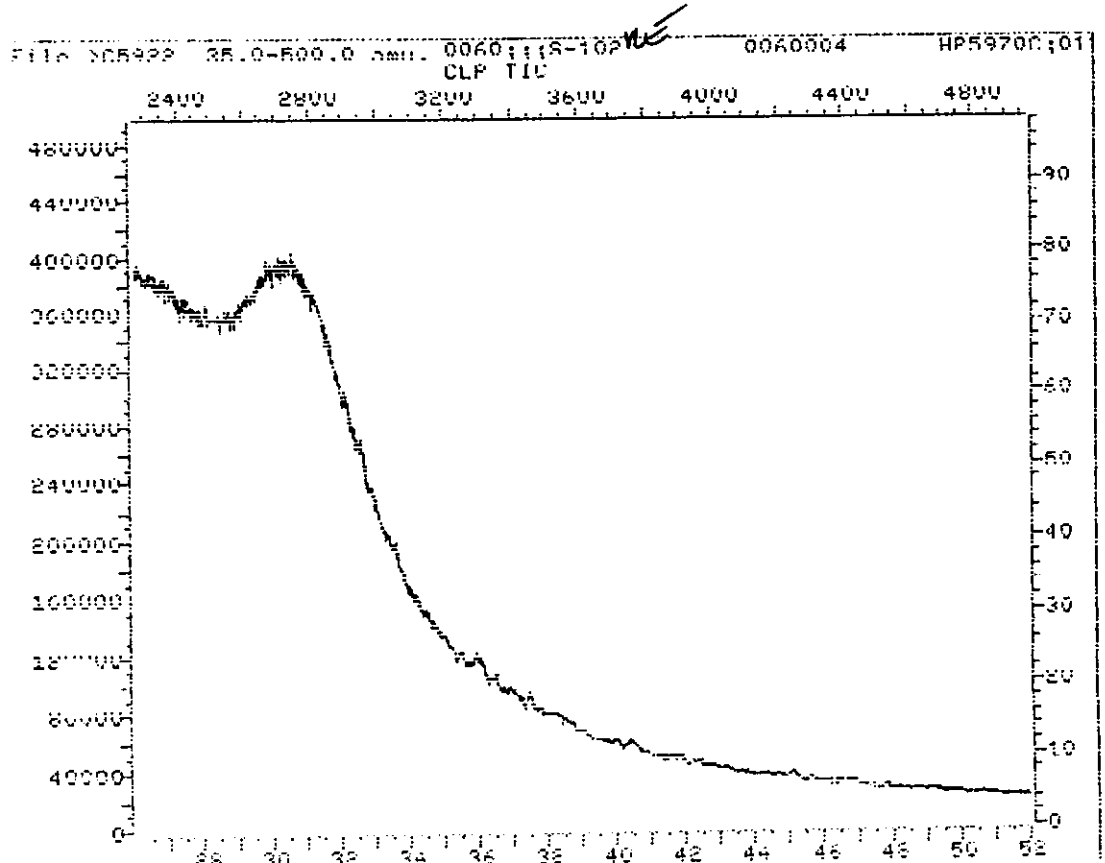
Compound No: 79
Compound Name: Benzo(g,h,i)perylene
Scan Number: 4657
Retention Time: 49.06 min.
Quant Ion: 276.0
Area: 3580^
Concentration: 280.95 ug
q-value: 81

MS ..ta File header from : >C5922

Sample: 00A0;;;S-102 Operator: MSC MS 2/01/93 22:51
Misc : 00A0004 HP5970C;011993;012093;LLS;1.0;;2.0;C0952 BTL#10
Sys. #: 1 MS model: 70 SW/HW rev.: 1A ALS # : 0
Method File: M C Tuning file: T C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


Date: 02/01/95 22:51 Inst: 1
CLP TIC
400 800 1200 1600 2000
0 2 4 6 8 10 12 14 16 18 20 22 24
19
46
64
103
41
15


CLP TIC
2400 2800 3200 3600 4000 4400 4800
30 32 34 36 38 40 42 44 46 48 50 52

S-102RE
HP5970442

Date: 02/03/93 22:51 Inst: C

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
22.	8.44	3368629.	121000.	1.	18.94
64.	12.87	578053.	21000.	1.	18.94
46.	10.76	271062.	9800.	1.	18.94
18.	7.72	271953.	9900.	1.	18.94
19.	7.86	248548.	9000.	1.	18.94
44.	10.38	177584.	6400.	1.	18.94
41.	10.02	138559.	5000.	1.	18.94
15.	7.21	110369.	4000.	1.	18.94
48.	10.96	81026.	2900.	1.	18.94
94.	17.50	92453.	2500.	2.	18.94
45.	10.32	55495.	2000.	1.	18.94
20.	13.28	70136.	1900.	2.	18.94
29.	14.89	61661.	1700.	2.	18.94
21.	8.13	39126.	1400.	1.	18.94
56.	11.96	38883.	1400.	1.	18.94
82.	16.34	48075.	1300.	2.	18.94
100	19.11	25246.	1400.	3.	18.94
104	19.84	27523.	1300.	3.	18.94
98.	18.44	68190.	1200.	3.	18.94
63.	12.74	27497.	990.	1.	18.94
100	18.88	53336.	920.	3.	18.94
5	11.57	23977.	870.	1.	18.94
9	12.11	30844.	840.	2.	18.94
90.	16.96	28548.	780.	2.	18.94

I N T E R N A L S T D A R E A R E P O R T

ISTD	Compound Name	RT	Area	RT Range		TI/SI
	1,4-DICHLOROBENZENE-D4	12.11	209409.	0.00	13.74	2.5
	NAPHTHALENE-D8	15.36	277526.	13.74	17.69	2.4
	ACENAPHTHENE-D10	20.02	441575.	17.69	22.00	5.4
	PHENANTHRENE-D10	23.92	148941.	22.00	27.69	1.4
	CHRYSENE-D12	31.41	30942.	27.69	34.75	1.7
	PERYLENE-D12	38.09	14761.	34.75	49.06	1.3

ISTD peaks found:	6
Surrogate peaks found:	6
Quant target peaks expected:	36
Target peaks matched:	6
Total TIC identified:	24

TICS : 9:11 PM THU., 4 FEB., 1993

0443

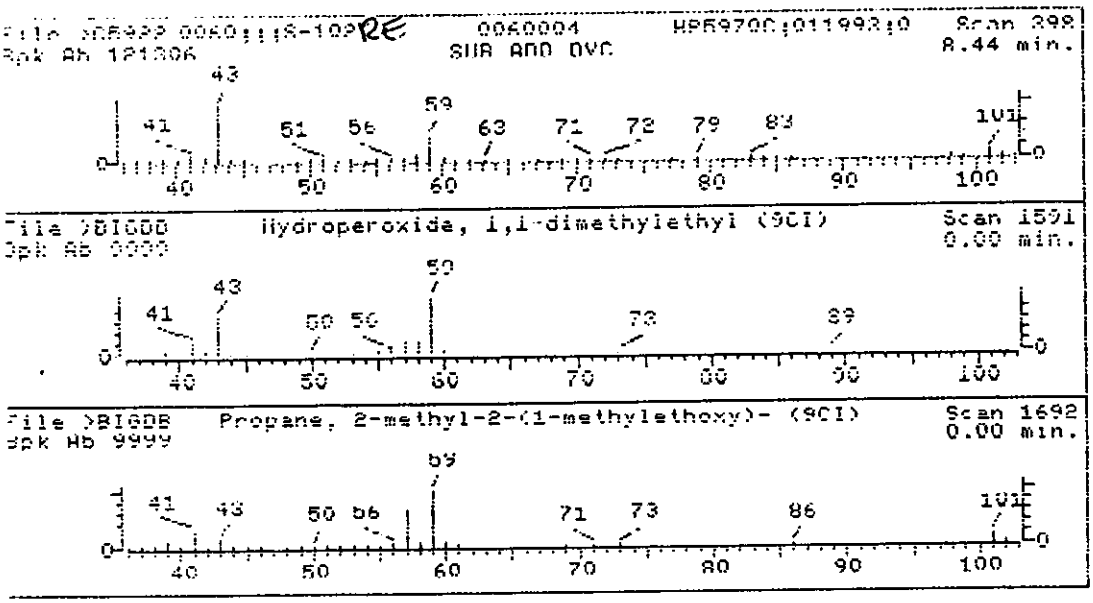
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 91 C4H10O2
2. Propane, 2-methyl-2-(1-methylethoxy)- (9CI) 116 C7H16O

Sample file: >I5992 Spectrum #: 398
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	91	75912	1591	"BIGDB	34	31	1	0	34	51	5			12
2.	15	1734R593	1692	"BIGDB	35	31	1	0	32	58	3			13

Peak#: 22 Area: 3361629. Est Conc: 120110. Date: 02/01/93 22:51 Inst: C



Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

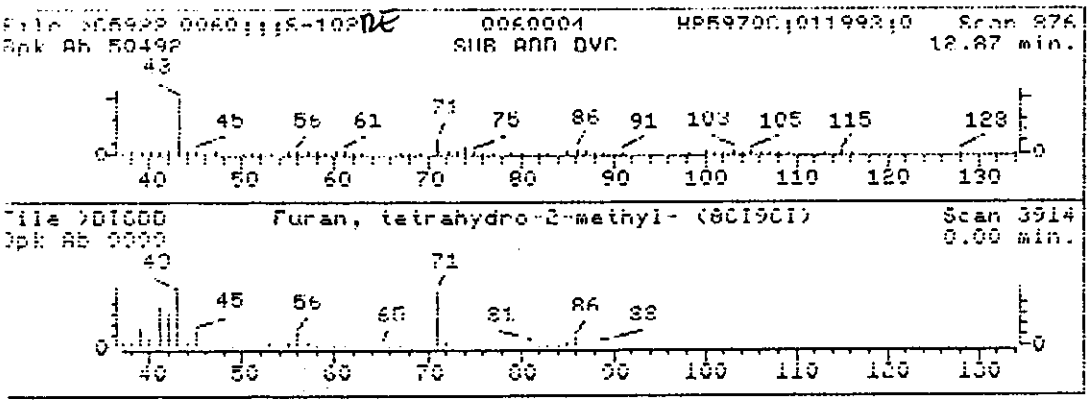
RPN error for command: RSF63
RPN error: -5
Add record length RSF

1. Furan, tetrahydro-2-methyl- (8CI9CI) 86 C5H10O

Sample file: >C5922 Spectrum #: 876
Search speed: 3 Tilting option: S No. of ion ranges searched: 60

	Prob.	CAS #	CDN #	ROUT	K	DK	#FLG	TILT	%	CDN	C	I	R	IV
1.	11*	96479	3914	"R1GDB	29	60	2	0	25	62	2			14

Peak#: 64 Area: 5281153. Est Conc: 2100. Date: 02/01/93 22:51 Inst: C



RPN: ???

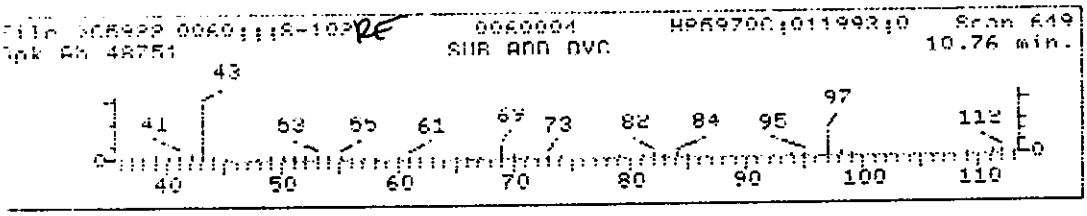
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
ad record length RSF

Sample file: >C5922 Spectrum #: 649

No data base entries were retrieved.

Peak#: 46 Area: 27118A2. Fst Conc: 980. Date: 02/01/93 22:51 Inst: C



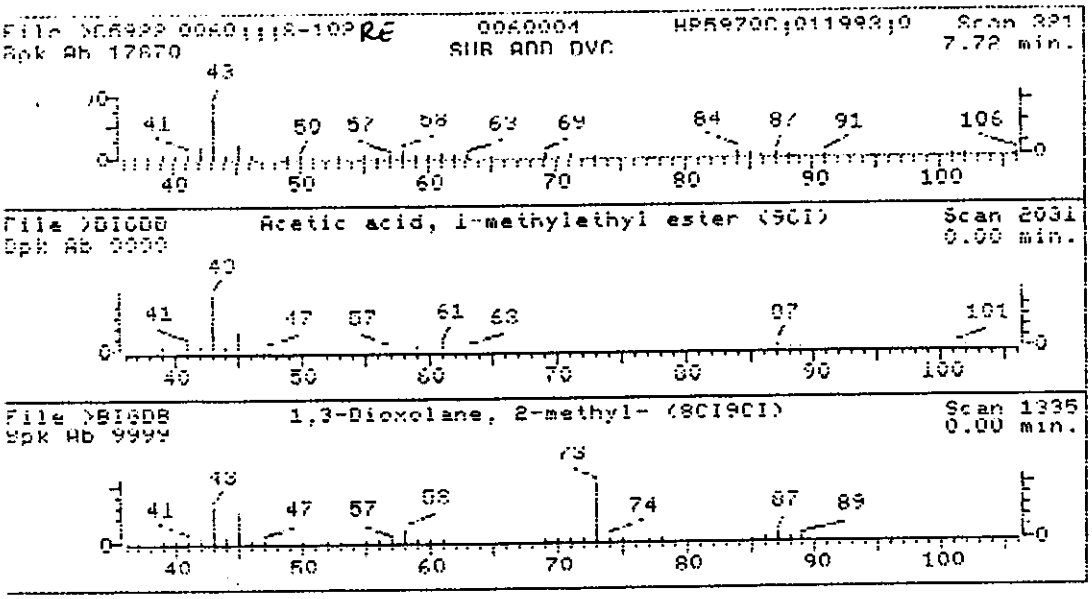
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Acetic acid, 1-methylethyl ester (9CI) 102 C5H10O2
2. 1,3-Dioxolane, 2-methyl- (8CI9CI) 88-C4H8O2

Sample file: >C5922 Spectrum #: 321
Search speed: 3 Tilting option: S No. of ion ranges searched: 59

	Prob.	CAS #	CHN #	ROOT	K	DK	#FIG	TILT	%	CON	C	I	R	IV
1.	26	108214	2031	"BIGDB	41	38	1	0	60	44	8			14
2.	21*	497267	1335	"BIGDB	23	50	2	0	46	55	5			13

Peak#: 18 Area: 271953. Est Conc: 980. Date: 02/01/93 22:51 Inst: C



Ca t interpret this parameter... Perhaps you have mistyped
th run string or have forgotten the order of the run string.

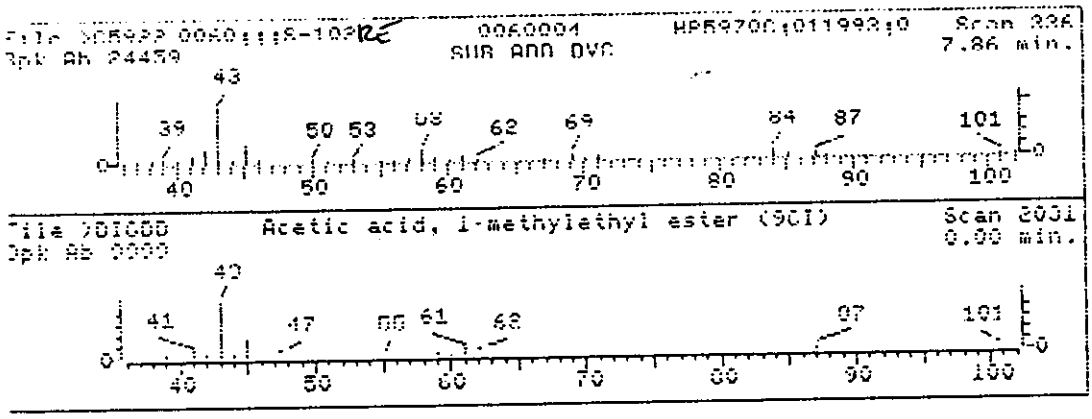
RPN error for command: RSR63
RPN error: -5
ad record length RSR

1. Acetic acid, 1-methylethyl ester (9CI) 102 C5H10O2

Sample file: >C5922 Spectrum #: 336
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CTN #	RTFIT	K	DK	#FLG	TILT	%	CTN	C	I	R	IV
1.	2%	108214	2131	"RTFDR	33	46	1	0	56	53	5			12

Peak#: 19 Area: 248548. Est Conc: 910. Date: 02/01/93 22:51 Inst: C



RPN 0005

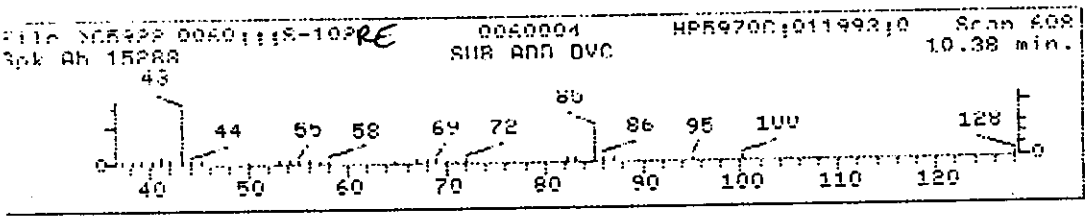
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSH63
RPN error: -5
Bad record length RSH

Sample file: >C5922 Spectrum #: 608

No data base entries were retrieved.

Peak#: 44 Area: 177584. Est Conc: 640. Date: 02/01/93 22:51 Inst: C



I'm t interpret this parameter... Perhaps you have mistyped
th run string or have forgotten the order of the run string.

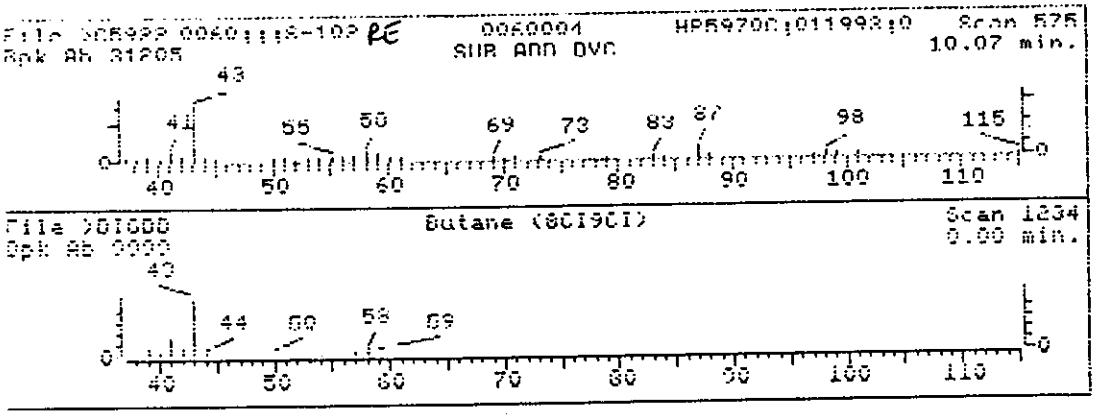
RPN error for command: RSF63
RPN error: -5
Bad record length RSF

1. Butane (8C19C1) 58 C4H10

Sample file: >C5922 Spectrum #: 525
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	56*	106978	1234	"B1GDB	20	59	2	0	100	29	14	13		

Peak#: 41 Area: 138559. Fst Conc: 500. Date: 02/01/93 22:51 Inst: C



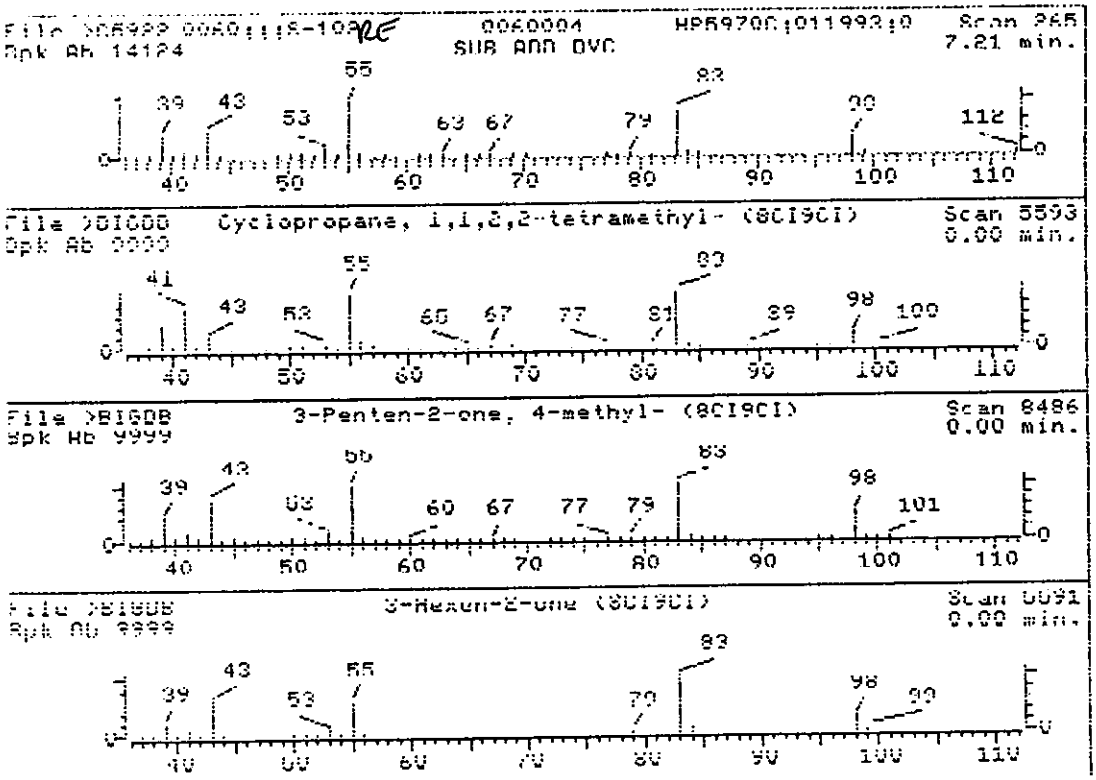
and record length RSP

1.	Cyclopropane, 1,1,2,2-tetramethyl- (8CI9CI)	98 C7H14
2.	3-Penten-2-one, 4-methyl- (8CI9CI)	98 C6H10O
3.	5-Hexen-2-one (8CI9CI)	98 C6H10O
4.	3-Penten-2-one, 3-methyl- (8CI9CI)	98 C6H10O

Sample File: >C5922 Spectrum #: 265
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	83*	4127473	5593	"BIGDB	52	45	2	0	83	5	52			28
2.	62*	141797	8486	"BIGDB	62	36	2	0	98	26	25			41
3.	59*	763939	5591	"BIGDB	41	42	0	0	72	36	21			53
4.	59*	565628	8488	"BIGDB	52	35	0	0	68	46	14			69

Peak#: 15 Area: 110369. Est Conc: 400. Date: 02/01/93 22:51 Inst: C



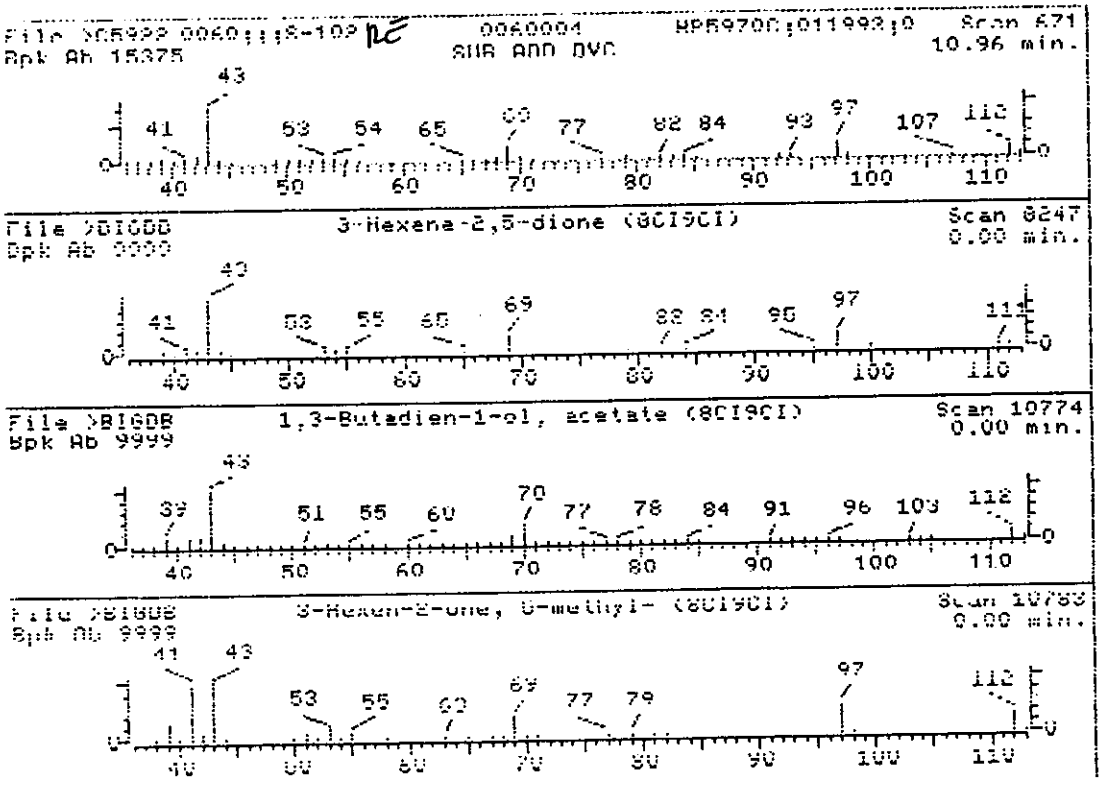
```
F   error for command: RSF61
k   error:  -5
Bad record length RSF
```

1. 3-Hexene-2,5-dione (8CI9CI) 112 C6H8O2
2. 1,3-Butadien-1-ol, acetate (8CI9CI) 112 C6H8O2
3. 3-Hexen-2-one, 5-methyl- (8CI9CI) 112 C7H12O

Sample file: >C5922 Spectrum #: 671
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	52*	4436253	8242	"BIGDB	33	49	2	0	28	17	20			16
2.	36*	1515760	10774	"BIGDB	20	60	2	0	100	30	14			13
3.	27*	5166530	10783	"BIGDB	22	52	2	0	41	36	10			13

Peak#: 48 Area: 81076. Est Conc: 290. Date: 02/01/93 22:51 Inst: C



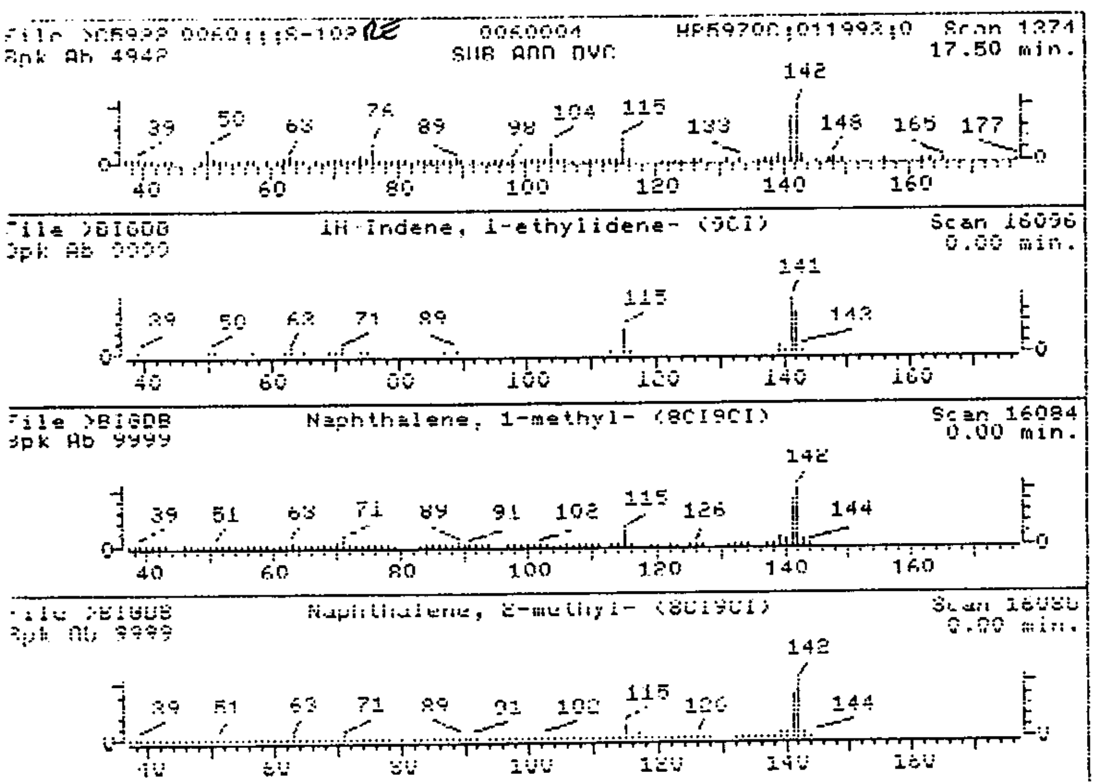
ad ecord length RSR

1. 1H-Indene, 1-ethylidene- (9CI) 142 C11H10
2. Naphthalene, 1-methyl- (8CI9CI) 142 C11H10
3. Naphthalene, 2-methyl- (8CI9CI) 142 C11H10
4. 1,4-Methanonaphthalene, 1,4-dihydro- (8CI9CI) 142 C11H10

Sample file: >C5922   Spectrum #: 1374
Search speed: 3   Tilting option: S   No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C I	R IV
1.	82*	2471832	16096	"BIGDB	70	30	0	0	54	44	33	89
2.	62*	90120	16084	"BIGDB	71	29	2	0	86	30	27	52
3.	62*	91576	16085	"BIGDB	67	31	2	0	88	30	25	48
4.	41*	4453901	16098	"BIGDB	58	44	2	-1	77	31	16	24

Peak#: 94 Area: 92453. Est Conc: 250. Date: 02/01/93 22:51 Inst: C



Ca ' interpret this parameter... Perhaps you have mistyped
th. run string or have forgotten the order of the run string.

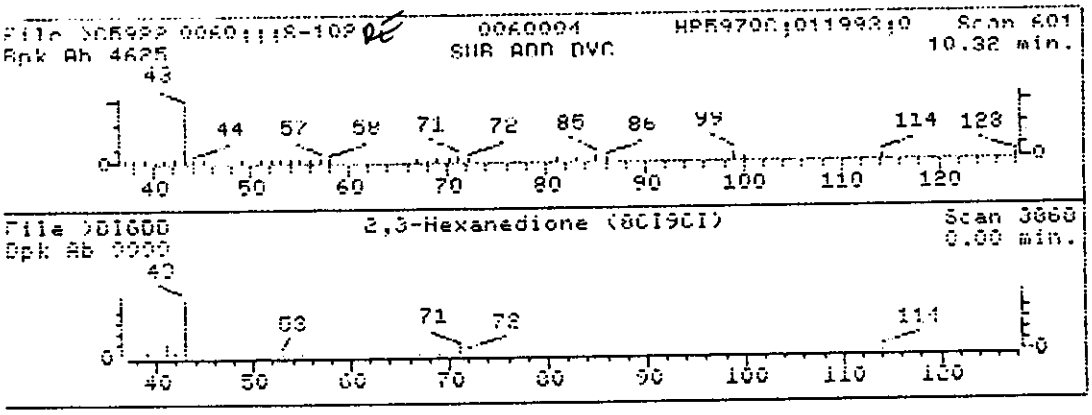
RPN error for command: RSF63
RPN error: -5
ad record length RSF

1. 2,3-Hexanedione (8CI9CI) 114 C6H10O2

Sample file: >C5922 Spectrum #: 601
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	43*	3848246	3868	"BIGDB	24	49	2	0	100	22	17		14	

Peak#: 43 Area: 55495. Est Conc: 200. Date: 02/01/93 22:51 Inst: C



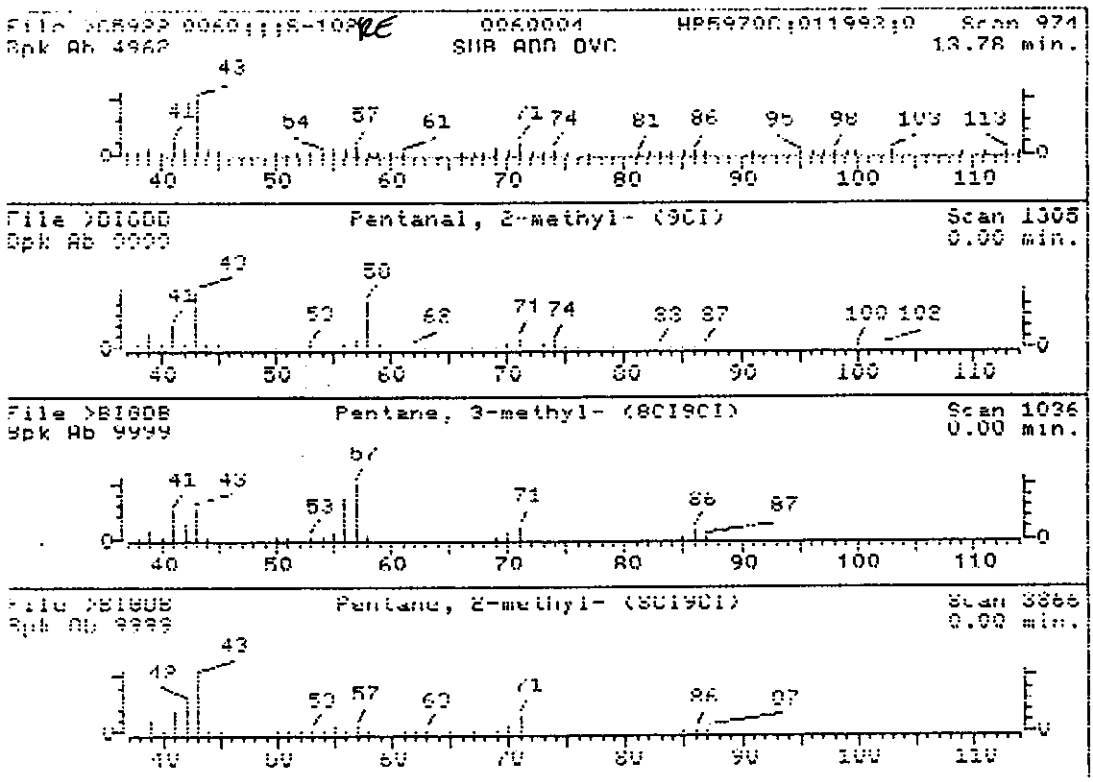
bad record length RRR

1.	Pentanal, 2-methyl- (9CI)	100 C6H12O
2.	Pentane, 3-methyl- (8CI,9CI)	86 C6H14
3.	Pentane, 2-methyl- (8CI,9CI)	86 C6H14
4.	Butane, 2,3-dimethyl- (8CI,9CI)	86 C6H14

Sample File: >C5922 Spectrum #: 974
Search speed: 3 Tilting option: S No. of ion ranges searched: 80

	Prob.	CAS #	CHN #	RUNT	K	DK	#PLG	TILT	%	CON	C	R	IV
1.	15*	123159	13115	"BIGDB	31	61	1	0	54	57	3	12	
2.	15*	96140	1036	"BIGDB	23	55	2	0	31	57	3	13	
3.	15*	107835	3866	"BIGDB	26	60	3	0	100	57	3	13	
4.	15*	79298	6298	"BIGDB	21	61	1	0	59	57	3	14	

Peak#: 20 Area: 70136. Est Conc: 190. Date: 02/01/93 22:51 Inst: C



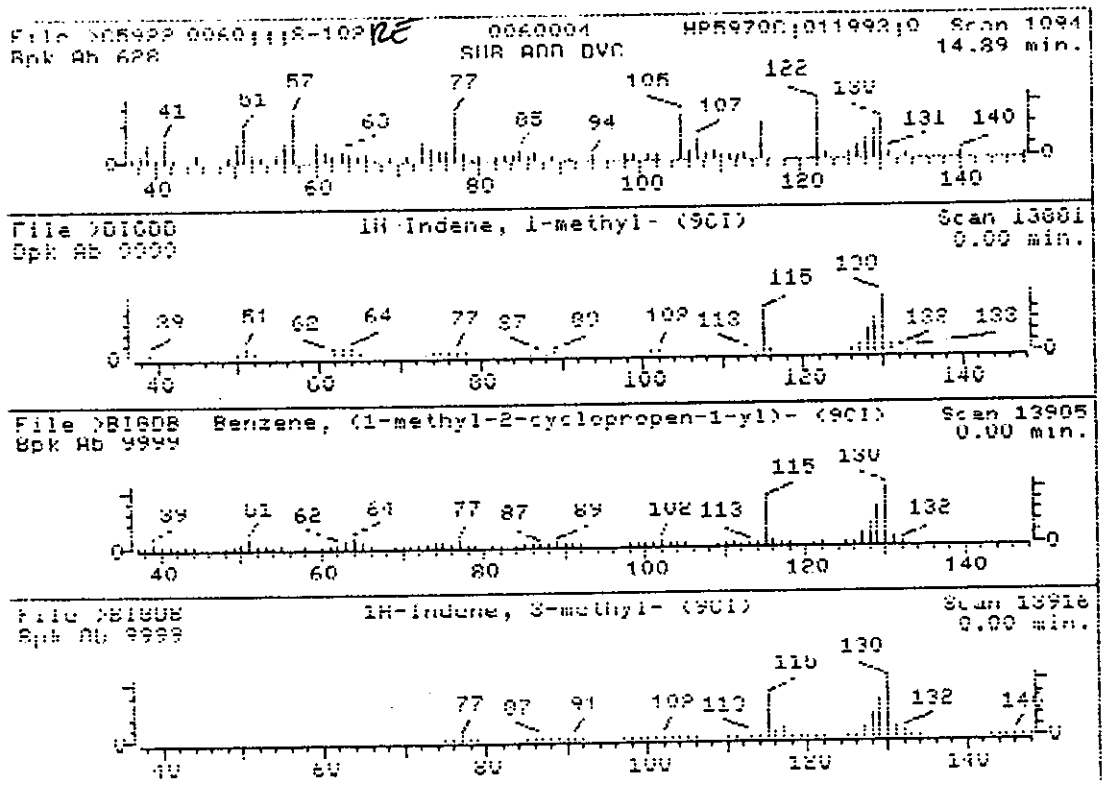
Lib Record Length RSF

1.	1H-Indene, 1-methyl- (9CI)	130 C10H10
2.	Benzene, (1-methyl-2-cyclopropen-1-yl)- (9CI)	130 C10H10
3.	1H-Indene, 3-methyl- (9CI)	130 C10H10
4.	Benzene, 1-butynyl- (9CI)	130 C10H10

Sample File: >D5999 Spectrum #: 1094
Search speed: 3 Tilting option: S No. of ion ranges searched: 23

	Prob.	CAS #	CON #	ROOT	K	DK	#PLG	TILT	%	CON	C	I	R	IO
1.	35*	767599	13881	"BIGDB	60	49	2	0	64	50	11			37
2.	35*	6611611834	13905	"BIGDB	55	55	2	0	64	50	11			32
3.	25*	767602	13916	"BIGDB	28	28	3	0	64	50	7			13
4.	24*	622764	13854	"BIGDB	40	64	1	0	60	54	7			21

Peak#: 29 Area: 61660. Est Conc: 170. Date: 02/01/93 22:51 Inst: C



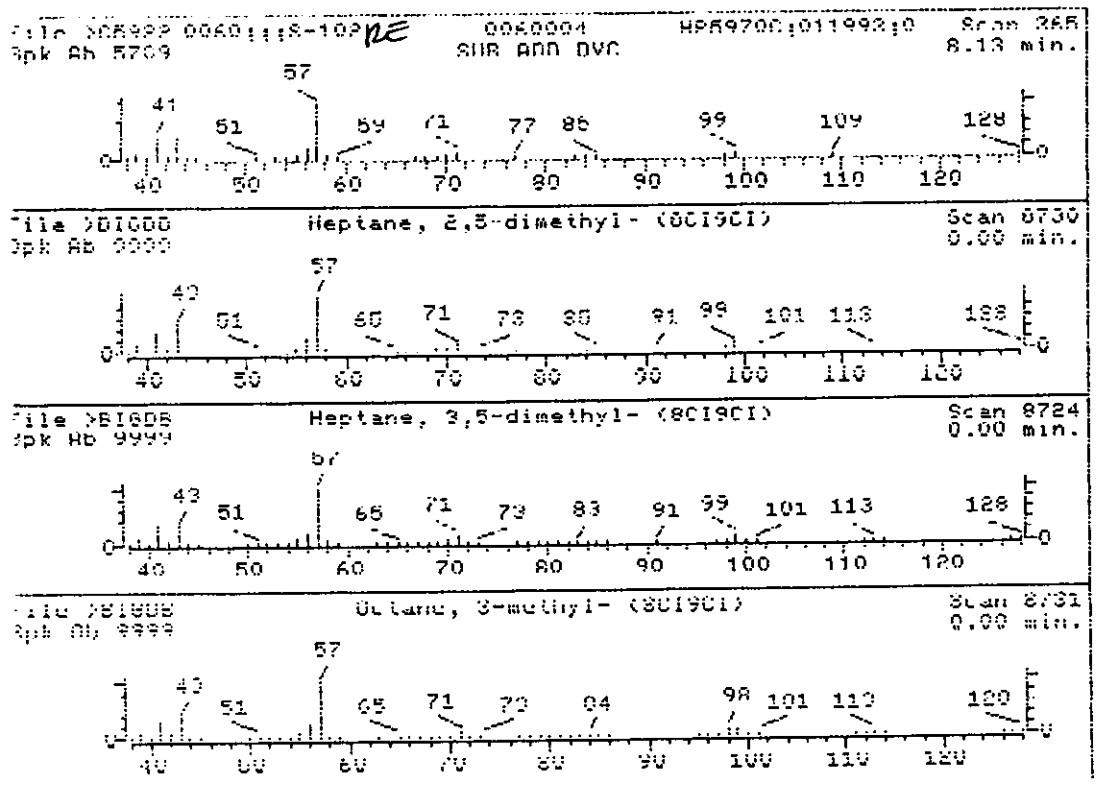
ad aoard length RSP

1.	Heptane, 2,5-dimethyl- (8CI9CI)	128 C9H20
2.	Heptane, 3,5-dimethyl- (8CI9CI)	128 C9H20
3.	Octane, 3-methyl- (8CI9CI)	128 C9H20
4.	Undecane, 6-methyl- (8CI9CI)	170 C12H26

Sample File: >C5922 Spectrum #: 365
Search speed: 3 Tilting option: S No. of ion ranges searched: 60

	Prob.	CAS #	COIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IU
1.	89*	2216300	8730	"BIGDB	76	10	1	1	20	1	66			22
2.	86*	926829	8724	"BIGDB	65	12	1	0	22	2	59			22
3.	28	2216333	8731	"BIGDB	41	43	2	0	26	5	55			14
4.	28	17302339	8567	"BIGDB	36	43	2	0	100	2	42			12

Peak#: 21 Area: 39126. Est Conc: 140. Date: 02/01/93 22:51 Inst: C



RPN ERR

0457

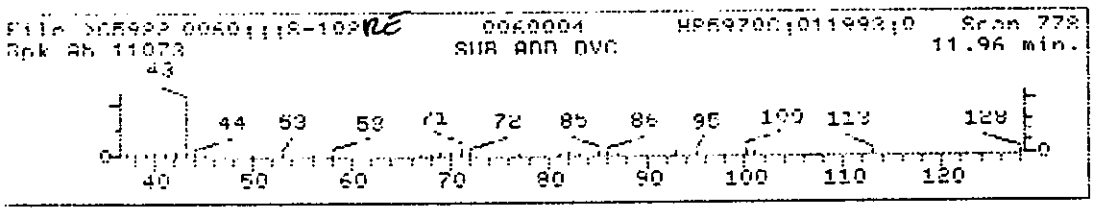
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RRRA4
RPN error: -5
Bad record length RRR

Sample file: >C5992 Spectrum #: 778

No data base entries were retrieved.

Peak#: 56 Area: 38883. Est Conc: 140. Date: 02/01/93 22:51 Inst: C



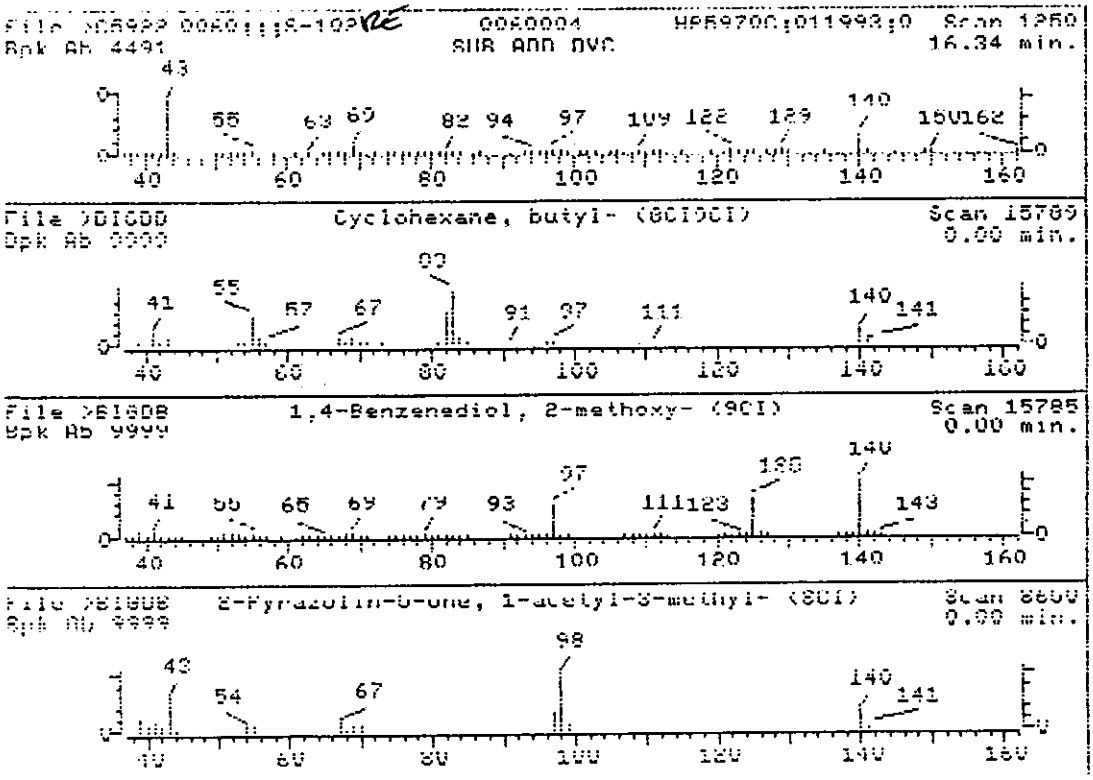
```
W  error for command: RSF63
R    error:  -5
Bad record length RSR
```

1. Cyclohexane, butyl- (8CI,9CI) 140 C10H20
2. 1,4-Benzenediol, 2-methoxy- (9CI) 140 C7H8O3
3. 2-Pyrazolin-5-one, 1-acetyl-3-methyl- (8CI) 140 C6H8N2O2

Sample file: >C5922 Spectrum #: 1250
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FIG	TILT	%	CON	C	I	R	IO
1.	25*	1678939	15789	"BIGDB	24	24	3	0	118	42	2			12
2.	21*	824464	15785	"BIGDB	28	48	3	0	32	52	5			13
3.	21*	5203929	8650	"BIGDB	21	68	2	0	114	52	5			13

Peak#: 87 Area: 48025. Est Conc: 130. Date: 02/01/93 22:51 Inst: C



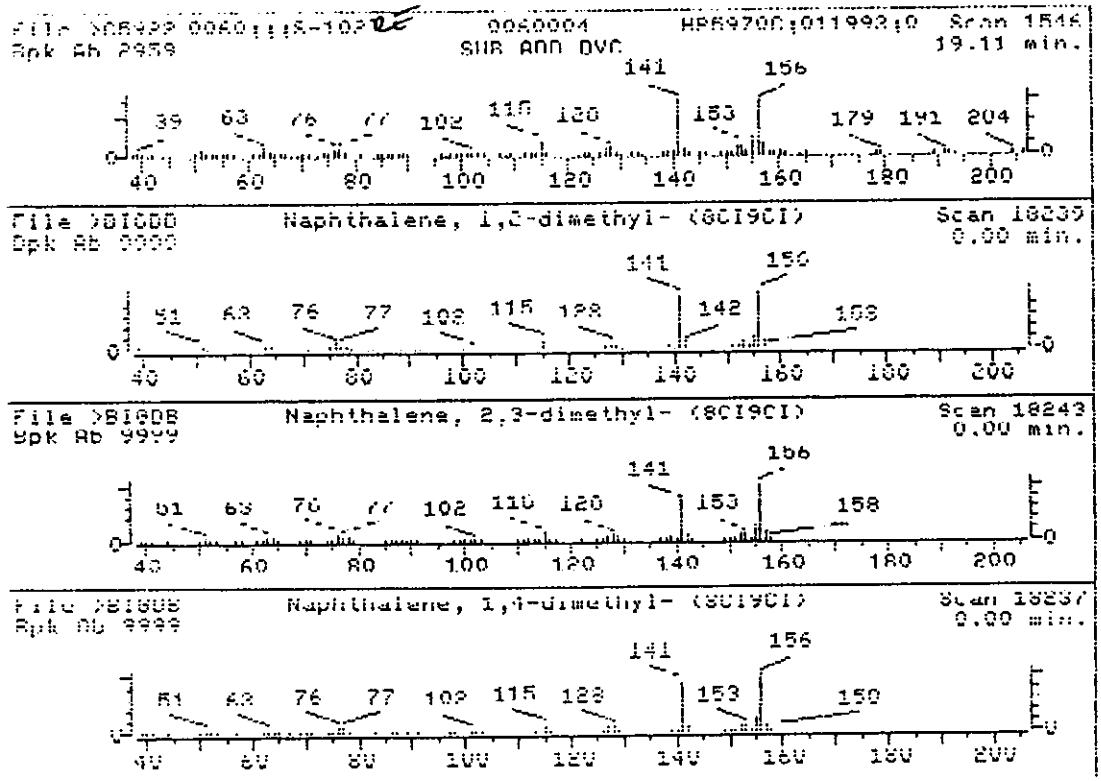
NIST search length RRF

1.	Naphthalene, 1,2-dimethyl- (8C19CI)	156 C12H12
2.	Naphthalene, 2,3-dimethyl- (8C19CI)	156 C12H12
3.	Naphthalene, 1,4-dimethyl- (8C19CI)	156 C12H12
4.	Naphthalene, 1,8-dimethyl- (8C19CI)	156 C12H12

Sample File: >C6922 Spectrum #: 1546
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	COIN #	ROOT	K	DK	#HITS	TILT	%	COIN	C	I	R	IV
1.	96*	573988	18239	"BIGDB	99	14	1	N	95	3	72			94
2.	95*	581408	18243	"BIGDB	93	13	1	N	95	3	72			93
3.	94*	571584	18237	"BIGDB	94	14	1	N	95	3	72			92
4.	93*	569415	18235	"BIGDB	90	20	1	N	90	5	68			89

Peak#: 101 Area: 75246. Fst Conc: 130. Date: 02/01/93 22:51 Inst: C



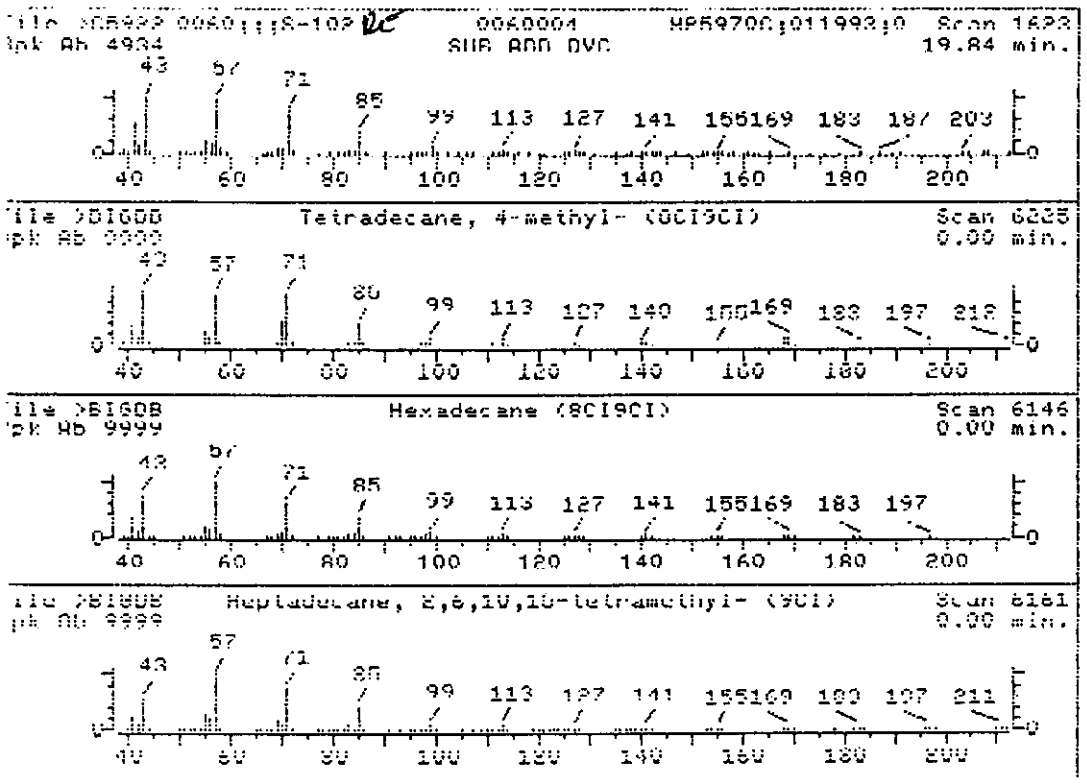
Lib search length RSF

1.	Tetradecane, 4-methyl- (8CI9CI)	212 C15H32
2.	Hexadecane (8CI9CI)	226 C16H34
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24

Sample File: >D5922 Spectrum #: 1623
Search speed: 3 Tilting option: S No. of ion ranges searched: 67

	Prob.	CAS #	CUN #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	IV
1.	79*	25117242	6225	"BIGDB	78	59	3	0	80	10	48			36
2.	26	544763	6146	"BIGDB	82	38	2	0	96	6	45			22
3.	16	54833486	6161	"BIGDB	84	49	2	0	83	6	45			23
4.	21*	17302328	6100	"BIGDB	51	35	2	0	96	13	38			33

Peak#: 114 Area: 77923. Fst Conc: 130. Date: 02/01/93 22:51 Inst: C



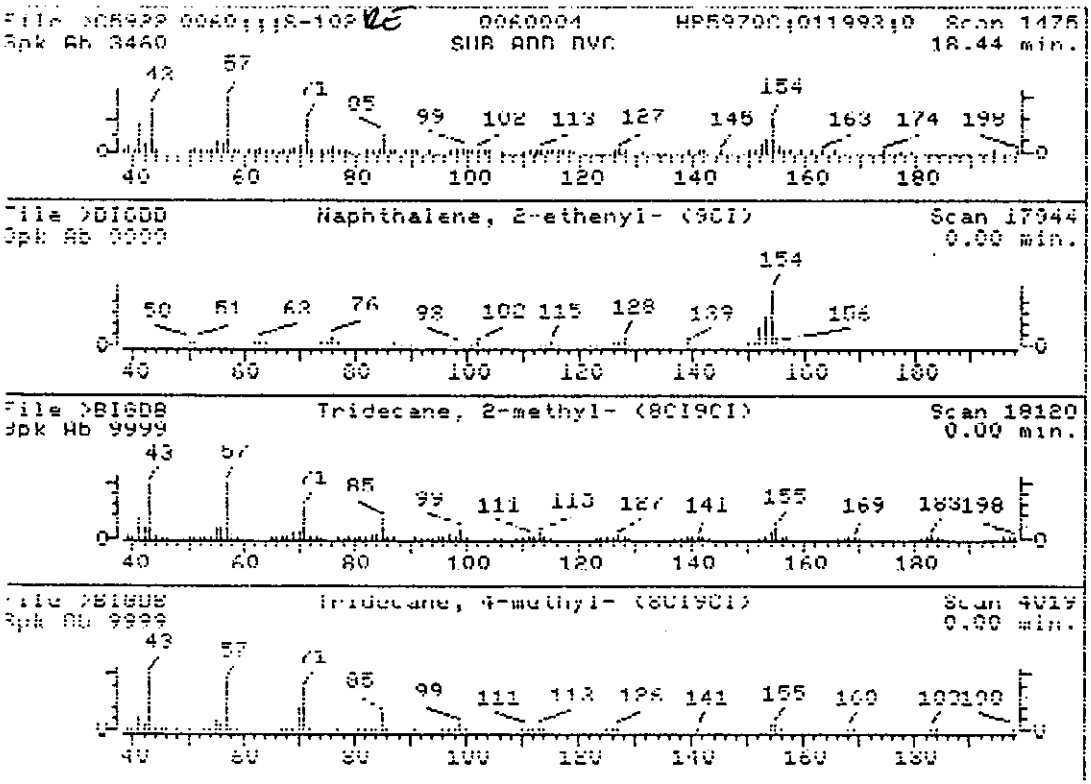
Bad record length RSK

1. Naphthalene, 2-ethenyl- (9CI) 154 C12H10
2. Tridecane, 2-methyl- (8CI,9CI) 198 C14H30
3. Tridecane, 4-methyl- (8CI,9CI) 198 C14H30
4. Hexadecane (8CI,9CI) 226 C16H34

Sample File: >C6922 Spectrum #: 1476
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CDN #	NAME	K	DK	#PLG	TILT	%	CDN	C	I	R	IV
1.	48*	827543	17944	"BIGDB	56	31	2	0	47	47	12			41
2.	48*	1560969	18120	"BIGDB	68	52	2	0	76	50	12			49
3.	24*	26730121	4019	"BIGDB	51	63	2	0	76	52	7			25
4.	24	544763	6146	"BIGDB	82	33	2	2	79	54	7			23

Peak#: 98 Area: 68190. Est Conc: 120. Date: 02/01/93 22:51 Inst: C



RPN-0005

0462

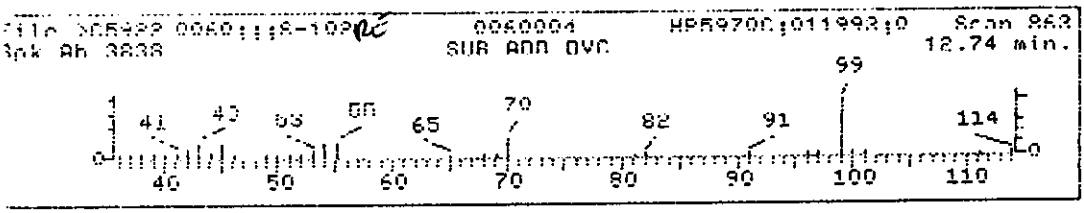
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
Bad record length RSF

Sample file: >C5922 Spectrum #: 863

No data base entries were retrieved.

Peak#: 63 Area: 27497. Est Conc: 99. Date: 02/01/93 22:51 Inst: C



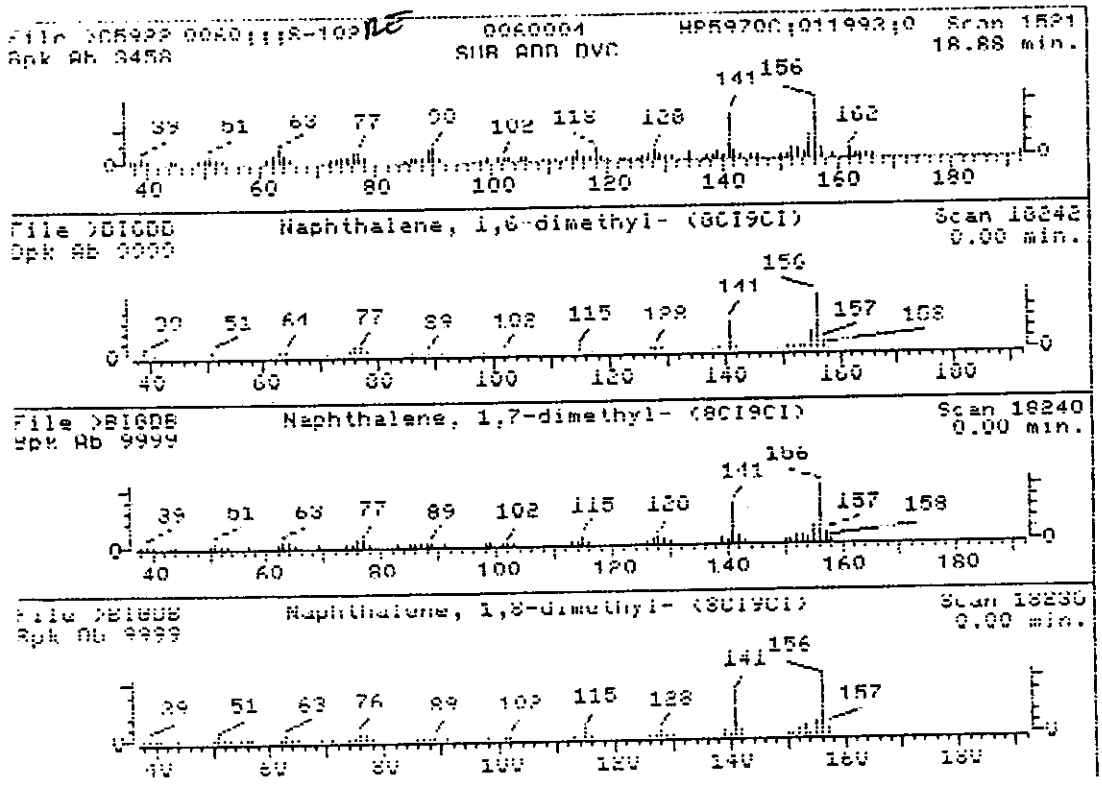
ad accord length RSF

1.	Naphthalene, 1,6-dimethyl- (8C19CI)	156 C12H12
2.	Naphthalene, 1,7-dimethyl- (8C19CI)	156 C12H12
3.	Naphthalene, 1,8-dimethyl- (8C19CI)	156 C12H12
4.	Naphthalene, 1,3-dimethyl- (8C19CI)	156 C12H12

Sample File: >D5922 Spectrum #: 1521
Search speed: 3 Tilting option: S No. of ion ranges searched: 96

	Prob.	CAS #	CIN #	RIDT	K	DK	#PIG	TILT	%	CON	C	I	R	IV
1.	96*	575439	18242	"BIGDB	102	6	0	0	98	17	60			97
2.	96*	575321	18240	"BIGDB	95	13	0	0	100	17	60			97
3.	96*	569415	18235	"BIGDB	95	15	0	0	98	17	60			97
4.	95*	575417	18241	"BIGDB	92	15	0	0	85	17	60			96

Peak#: 100 Area: 53336. Est Conc: 92. Date: 02/01/93 22:51 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: IEA/CT Contract: 0464

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: IEA/CT Contract: 0465

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.3	JB
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.3	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	0.4	J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELDBLANK

Lab Name: IEA/CT Contract: 0466

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: ____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 04 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	149575	HEXANOIC ACID, 2-ETHYL-	13.98	13	JN
2.		UNKNOWN	8.73	11	JB
3.		ALDOL CONDENSATION PRODUCT	8.31	6	JAB
4.		UNKNOWN	9.41	3	JB
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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27.					
28.					
29.					
30.					

0467

QUANT REPORT

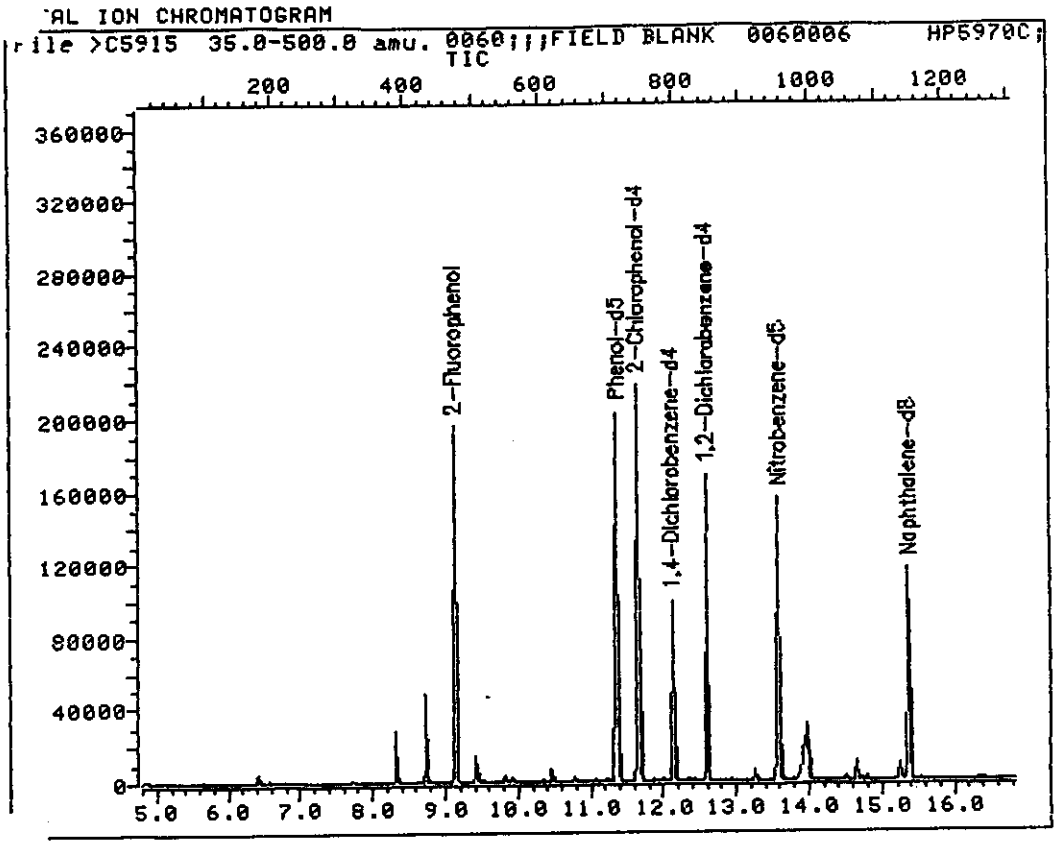
Operator ID: MSC Quant Rev: 6 Quant Time: 930201 16:34
Output File: ^C5915::QT Injected at: 930201 15:40
Data File: >C5915::G2 Dilution Factor: .51000
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.12	151.8	29571	40.00	ug	93
3)	2-Chlorophenol-d4	11.65	132.0	104583	56.59	ug	94
4)	2-Fluorophenol	9.13	111.8	91603	56.73	ug	80
5)	Phenol-d5	11.37	98.8	132488	56.73	ug	92
6)	Phenol	11.39	93.9	2924	1.25	ug	91
11)	1,2-Dichlorobenzene-d4	12.60	152.0	49623	37.83	ug	97
18)	*Naphthalene-d8	15.37	135.9	109792	40.00	ug	97
19)	Nitrobenzene-d5	13.59	81.8	93234	40.97	ug	89
32)	*Acenaphthene-d10	20.02	163.9	72532	40.00	ug	91
36)	2-Fluorobiphenyl	18.25	171.8	157768	36.59	ug	99
48)	Diethylphthalate	21.26	148.8	1939	.33	ug	94
5	2,4,6-Tribromophenol	22.13	329.6	70144	51.73	ug	90
52)	*Phenanthrene-d10	23.90	187.9	136329	40.00	ug	98
62)	Di-n-butylphthalate	25.55	148.8	3003	.31	ug	97
64)	*Chrysene-d12	31.22	240.0	117766	40.00	ug	96
66)	Terphenyl-d14	28.16	244.0	232730	36.68	ug	96
~~67)~~	~~Butylbenzylphthalate~~	~~29.51~~	~~148.8~~	~~487~~	~~.11~~	~~ug~~	~~97~~
71)	bis(2-Ethylhexyl)phthalate	31.36	148.8	7664	1.25	ug	90
72)	*Perylene-d12	38.06	264.0	92878	40.00	ug	91
73)	Di-n-octylphthalate	33.88	148.9	3654	.45	ug	86

* Compound is ISTD

GMC 2/9/93

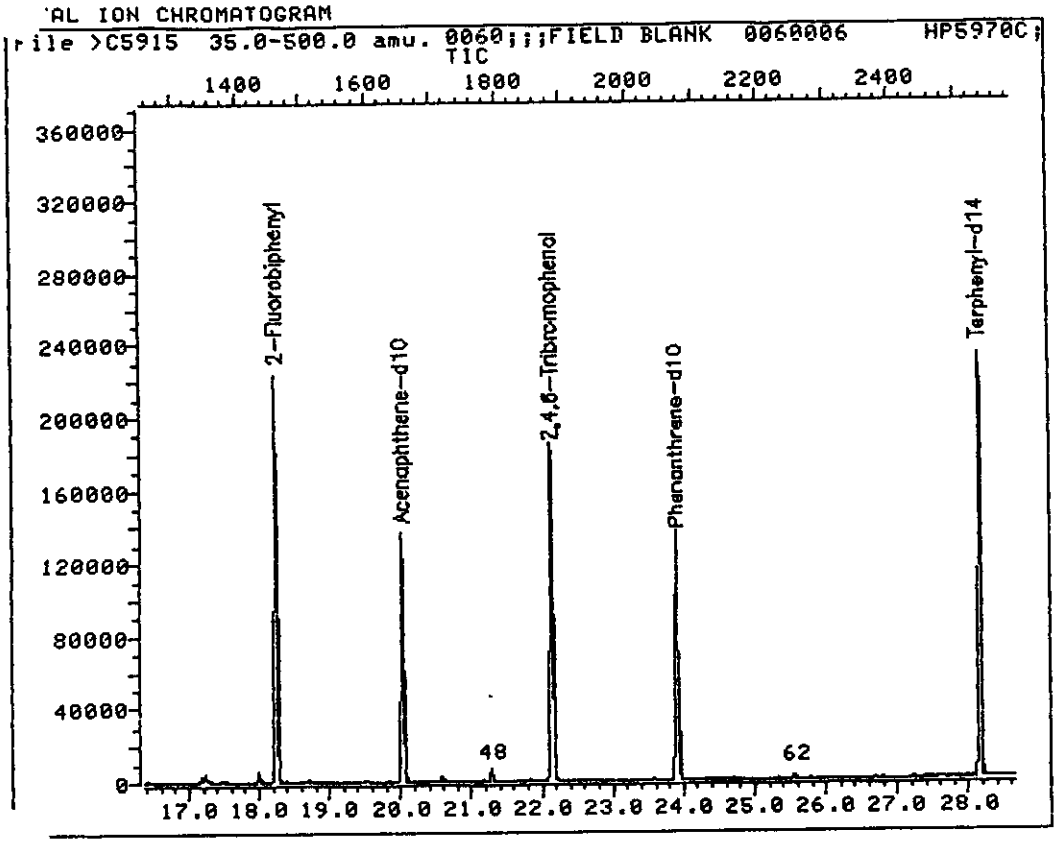


Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 16:34
Injected at: 930201 15:40

TIC page 1 of 4

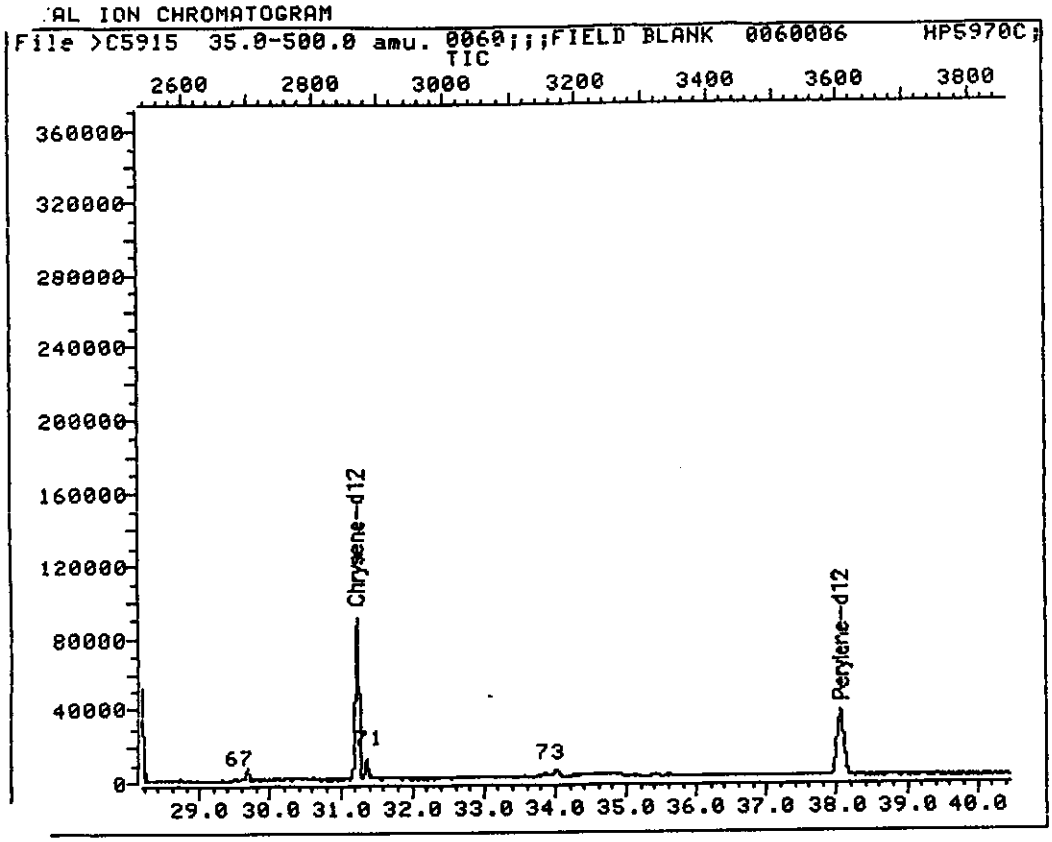


Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 16:34
Injected at: 930201 15:40

TIC page 2 of 4

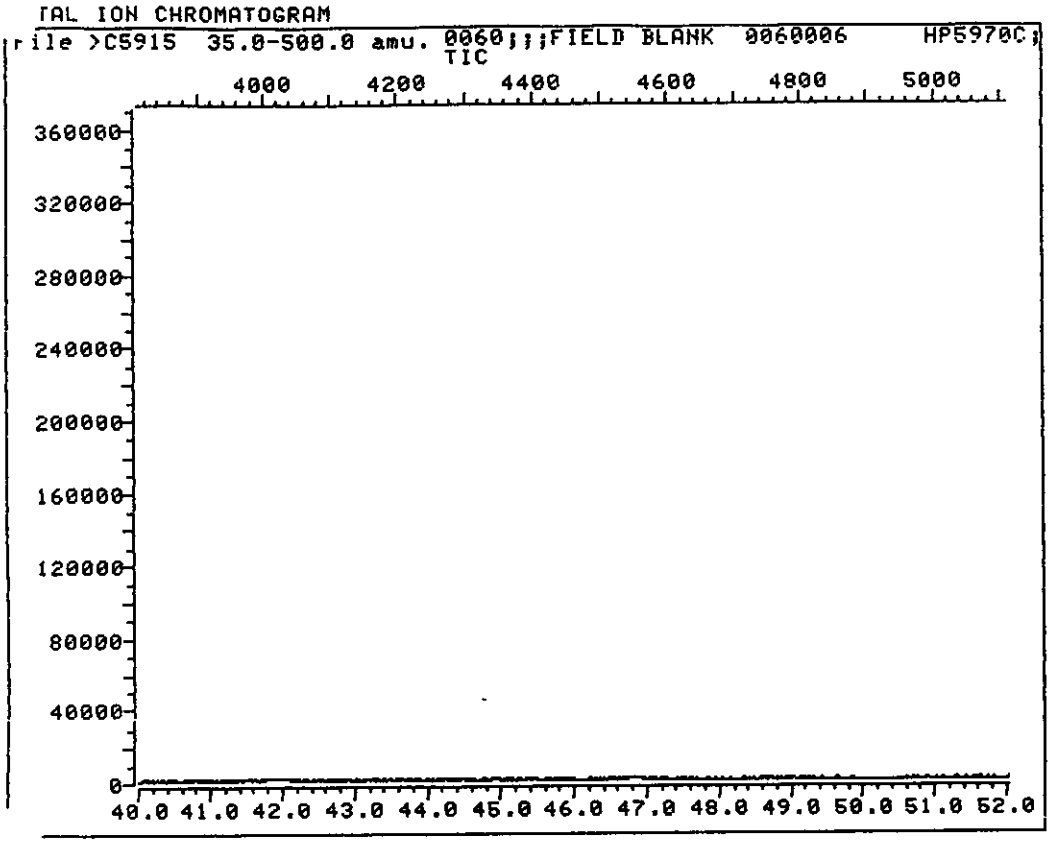


Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 16:34
Injected at: 930201 15:40

TIC page 3 of 4



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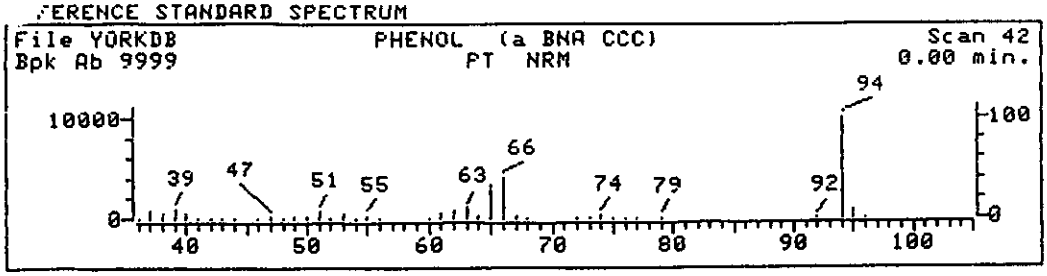
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

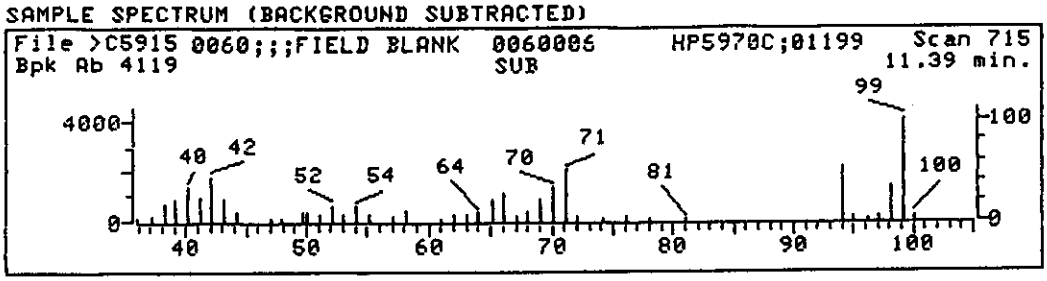
Operator ID: MSC
Quant Time: 930201 16:34
Injected at: 930201 15:40

TIC page 4 of 4

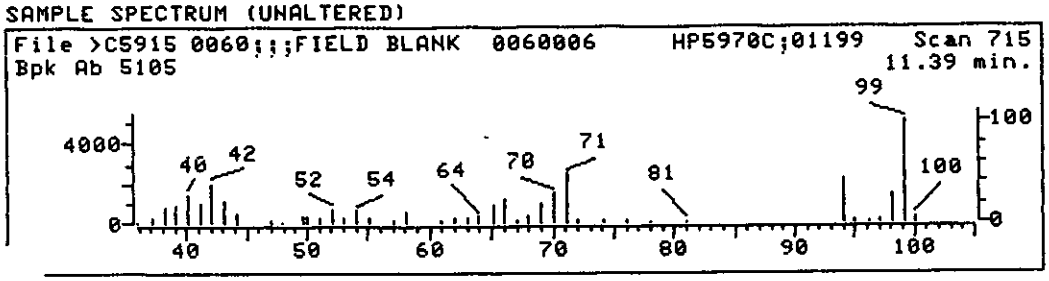
FERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



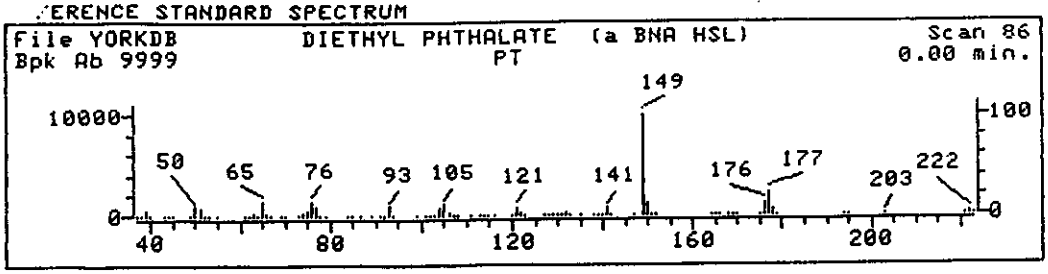
SAMPLE SPECTRUM (UNALTERED)



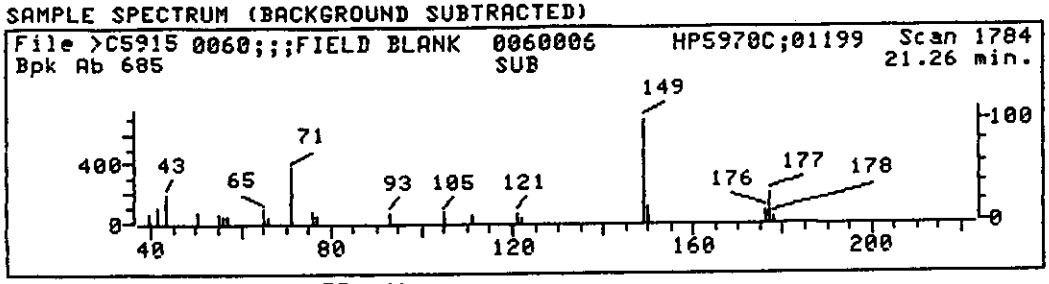
Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3
Quant Time: 930201 16:34 Quant ID File: I_EPA::N1
Injected at: 930201 15:40 Last Calibration: 930201 13:46

Compound No: 6
Compound Name: Phenol
Scan Number: 715
Retention Time: 11.39 min.
Quant Ion: 93.9
Area: 2924
Concentration: 1.25 ug
q-value: 91

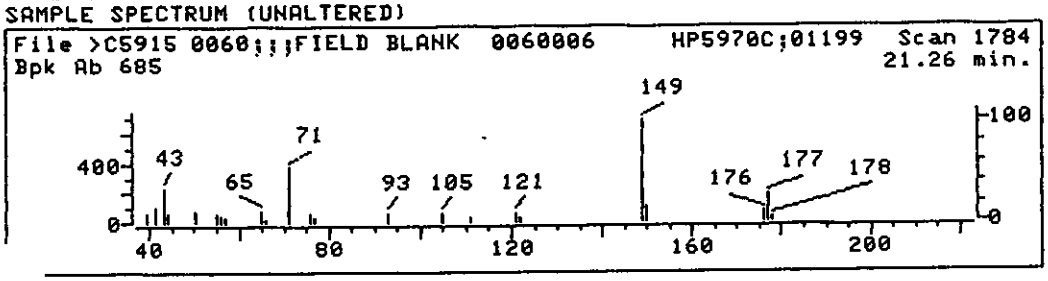
ERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5915::G2 Quant Output File: ^C5915::QT
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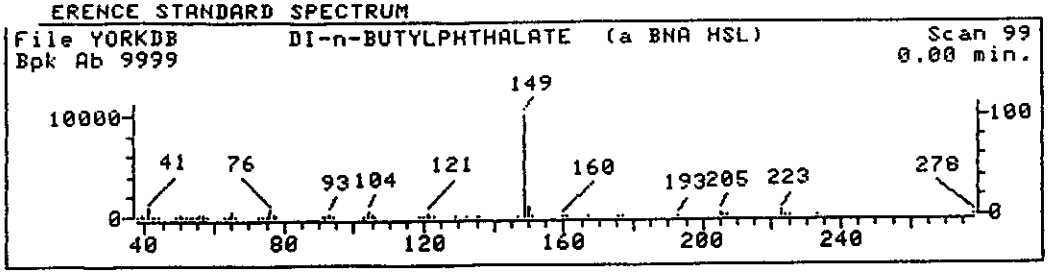
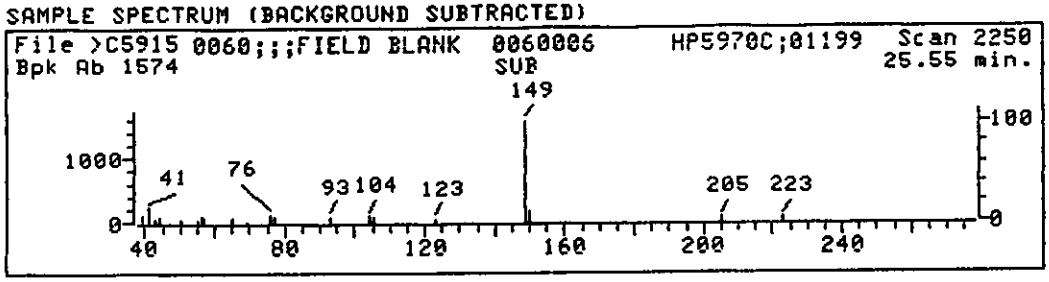
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3
Quant Time: 930201 16:34 Quant ID File: I_EPA::N1
Injected at: 930201 15:40 Last Calibration: 930201 13:46

Compound No: 48
Compound Name: Diethylphthalate
Scan Number: 1785
Retention Time: 21.26 min.
Quant Ion: 148.8
Area: 1939
Concentration: .33 ug
q-value: 94

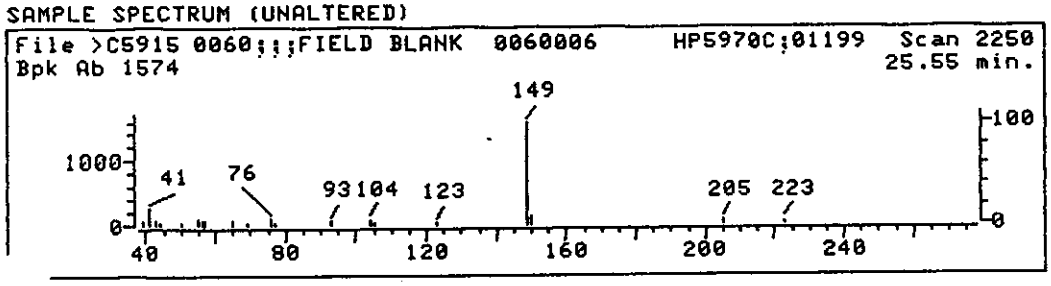
ERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C5915::G2 Quant Output File: ^C5915::QT
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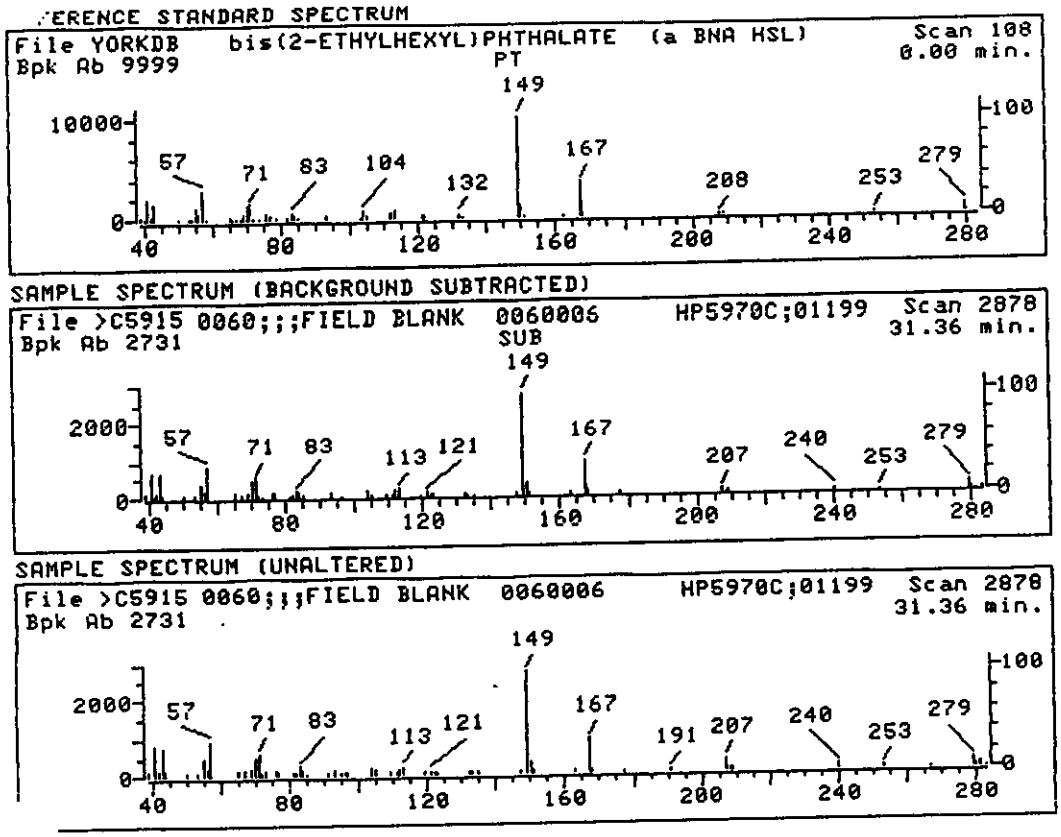
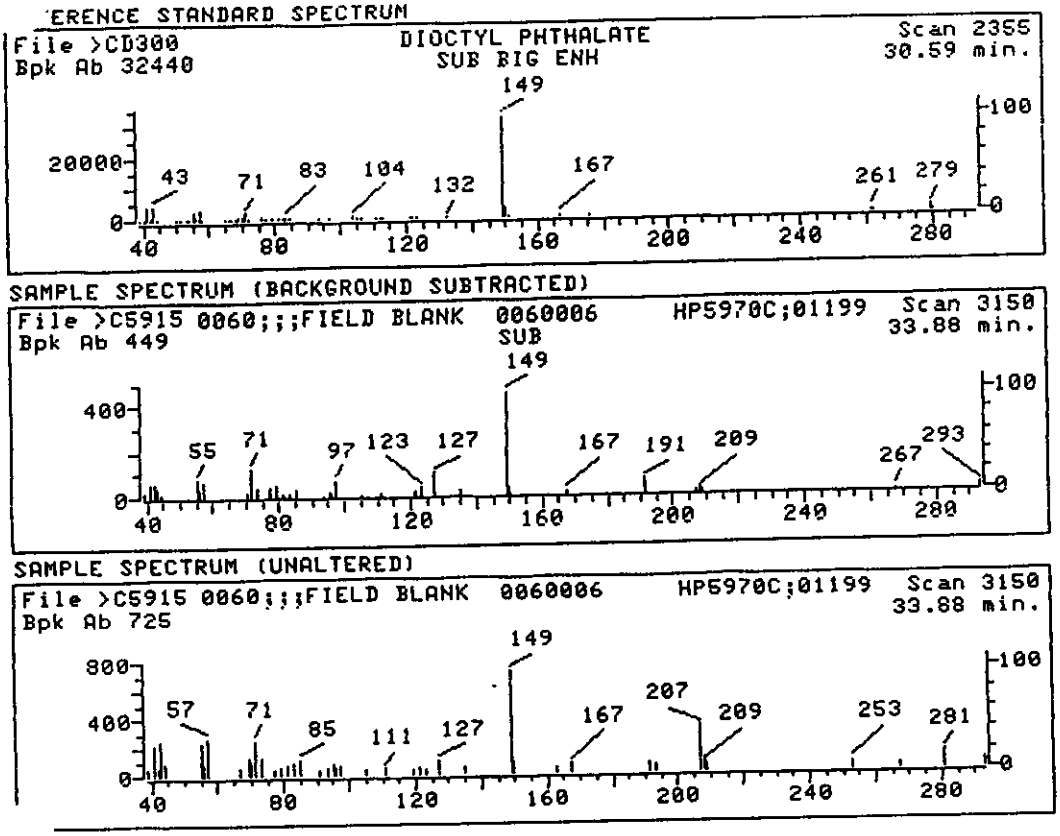
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3
Quant Time: 930201 16:34 Quant ID File: I_EPA::N1
Injected at: 930201 15:40 Last Calibration: 930201 13:46

Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2250
Retention Time: 25.55 min.
Quant Ion: 148.8
Area: 3003
Concentration: .31 ug
q-value: 97



Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3
Quant Time: 930201 16:34 Quant ID File: I_EPA::N1
Injected at: 930201 15:40 Last Calibration: 930201 13:46

Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2878
Retention Time: 31.36 min.
Quant Ion: 148.8
Area: 7664
Concentration: 1.25 ug
q-value: 90



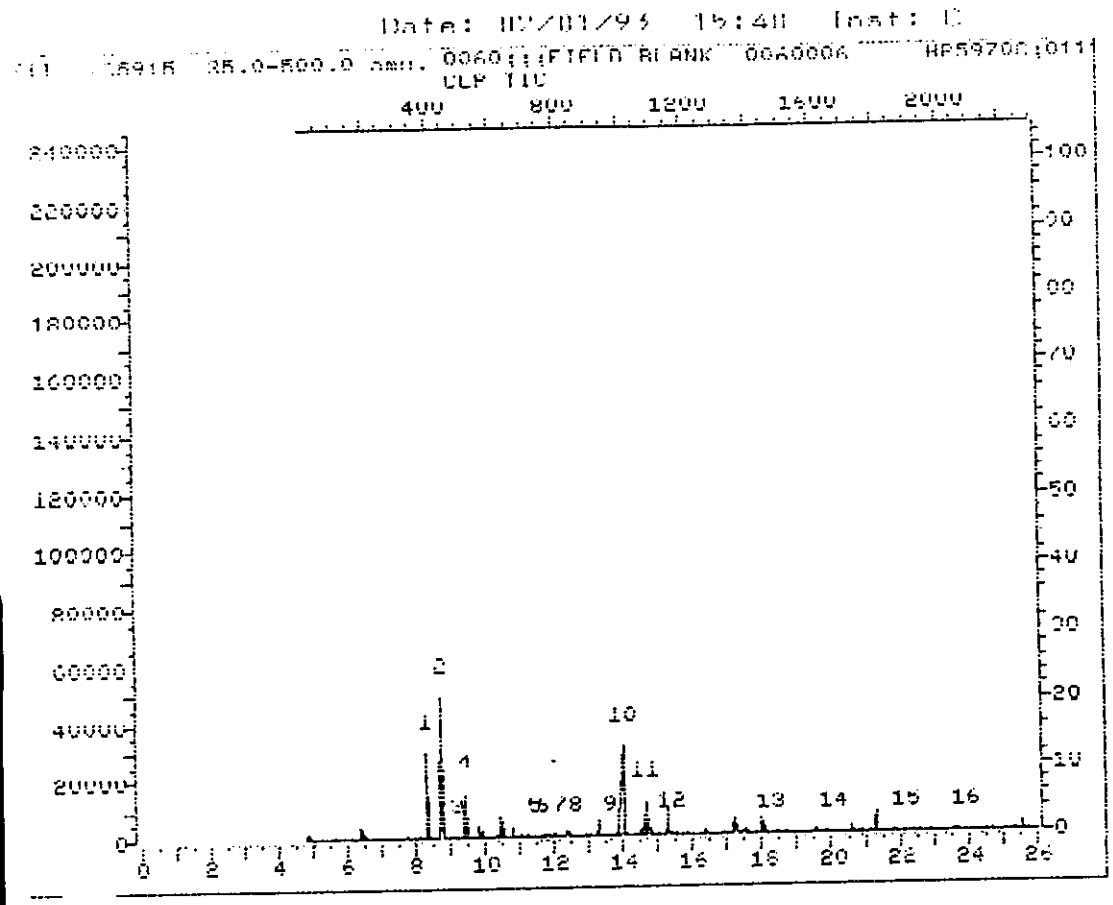
Data File: >C5915::G2 Quant Output File: ^C5915::QT
Name: 0060;;;FIELD BLANK
Misc: 0060006 HP5970C;011993;012193;LLW;1;;;C0952 BTL# 3
Quant Time: 930201 16:34 Quant ID File: I_EPA::N1
Injected at: 930201 15:40 Last Calibration: 930201 13:46

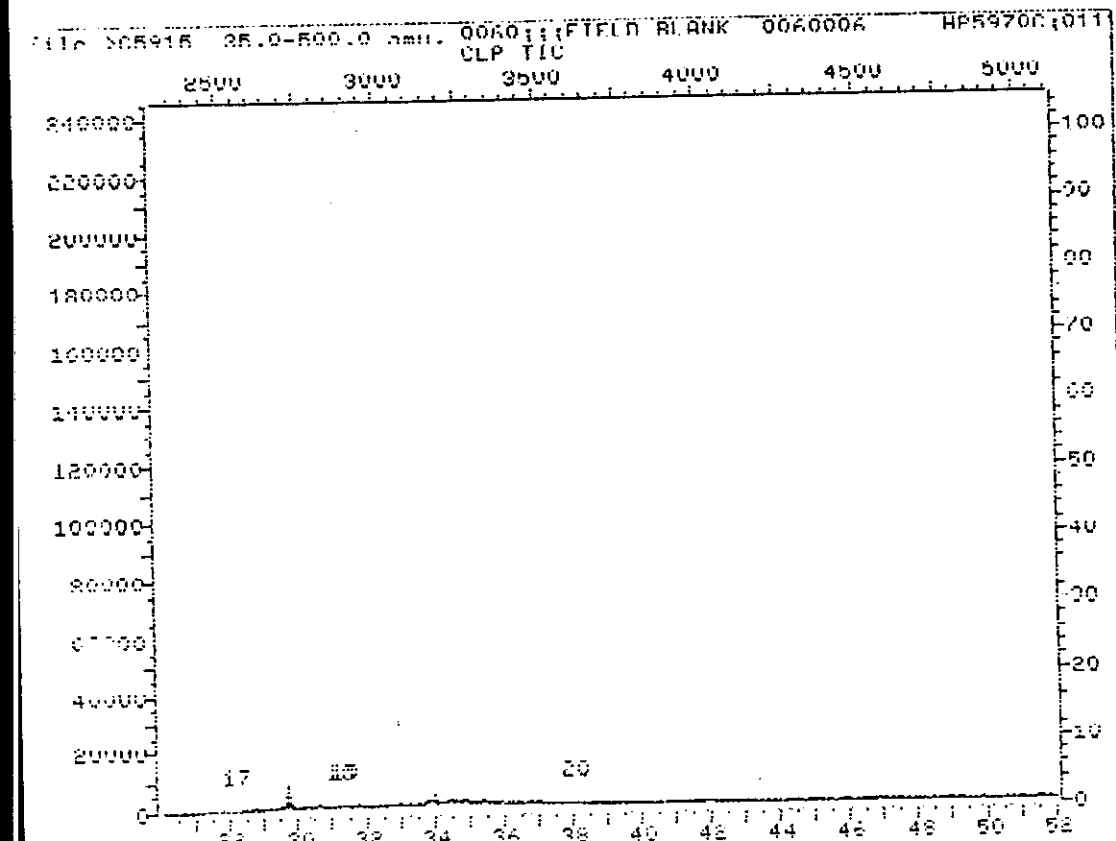
Compound No: 73
Compound Name: Di-n-octylphthalate
Scan Number: 3150
Retention Time: 33.88 min.
Quant Ion: 148.9
Area: 3654
Concentration: .45 ug
q-value: 86

MS data file header from : 215915

Sample: 0060;;;FIELD BLANK Operator: MSC MS 2/01/93 15:40
Misc : 00A0000A HP5972C;011993;012193;1 W;1;;;C0952 Bll.# 3
Sys. #: 1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M 1 Tuning file: T C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


Date: 10/01/95 15:41 Inst: C
CLP TIC
400
800
1200
1600
2000
2
1
10
4
11
5&7&8
9
12
13
14
15
16
0
2
4
6
8
10
12
14
16
18
20
22
24
26


CLP TIC
2500
3000
3500
4000
4500
5000
17
18
20
0
30
32
34
36
38
40
42
44
46
48
50
52

FIELD0479
BLANK
HP5970C

Date: 02/01/93 15:41 Inst: C

TIC PEAK REPORT

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
10.	13.98	195565.	19.	2.	.51
2.	8.23	96979.	11.	1.	.51
3.	8.51	58293.	6.	1.	.51
4.	9.41	25346.	3.	1.	.51

INTERNAL STD AREA REPORT

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.12	186879.	0.00	13.74	6.3
NAPHTHALENE-D8	15.37	241783.	13.74	17.69	2.2
ACENAPHTHENE-D10	20.02	315813.	17.69	21.97	4.4
PHENANTHRENE-D10	23.91	344340.	21.97	27.57	2.5
CHRYSENE-D12	31.22	312090.	27.57	34.64	2.7
PERYLENE-D12	38.05	237564.	34.64	38.05	2.6

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	9
Target peaks matched:	1
Total TIC identified:	4

TICS : 2:31 PM THU., 4 FEB., 1993

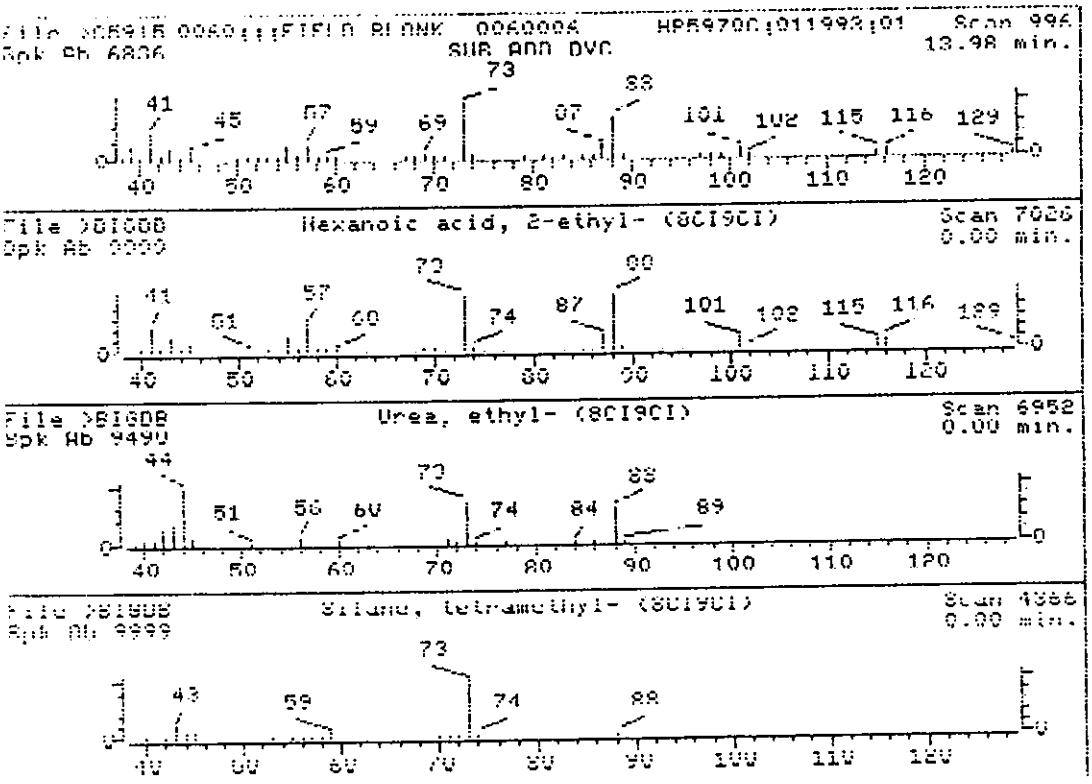
of search length RSH

1.	Hexanoic acid, 2-ethyl- (8CI9CI)	144 C8H16O2
2.	Urea, ethyl- (8CI9CI)	88 C3H8N2O
3.	Silane, tetramethyl- (8CI9CI)	88 C4H12Si
4.	1,3-Dioxolane, 2-propyl- (8CI9CI)	116 C6H12O2

Sample File: >IC5915 Spectrum #: 996
Search speed: 3 Tilting option: S No. of ion ranges searched: 52

	Prob.	CAS #	CON #	RUN	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	50	149525	7026	"BIGDB	78	21	2	0	54	26	19			28
2.	36*	625525	6952	"BIGDB	22	24	3	0	123	38	14			13
3.	25*	75763	4366	"BIGDB	29	45	2	0	85	50	7			14
4.	25*	3391134	4399	"BIGDB	26	52	3	0	100	45	8			13

Peak#: 10 Area: 153563. Est Conc: 13. Date: 02/01/93 15:40 Inst: C



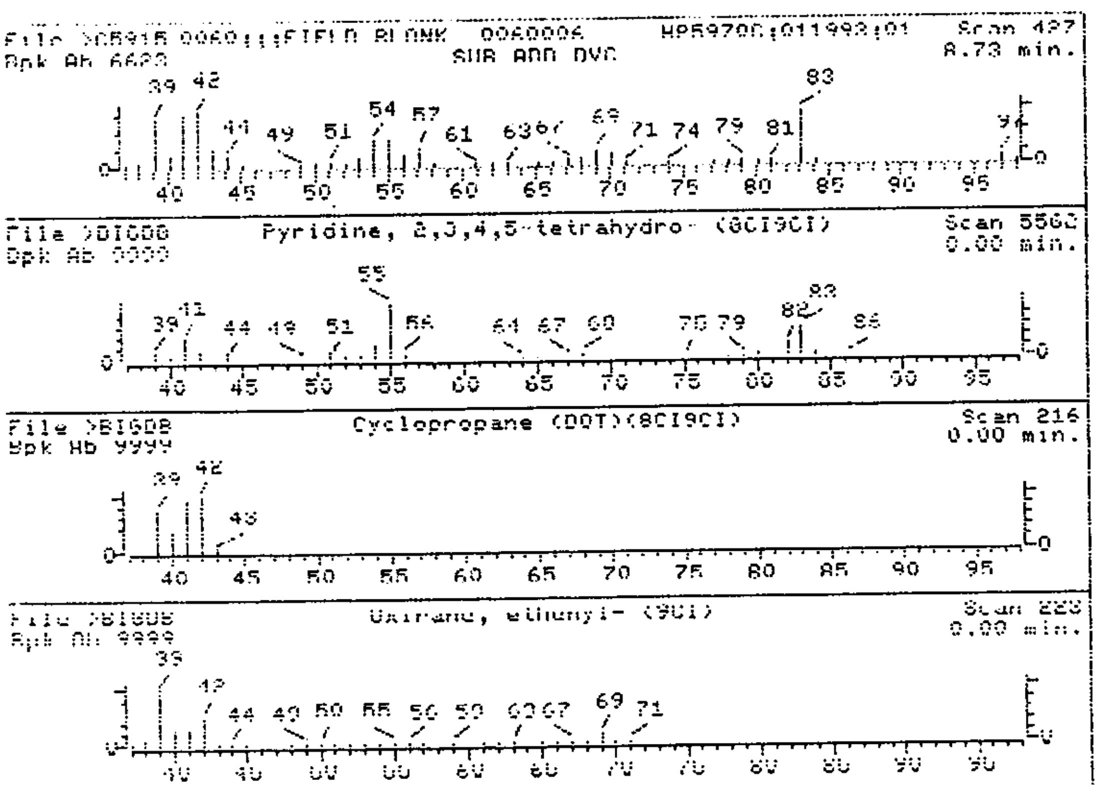
F . error for command: RS>A3
E . error: -5
Bad record length RSF

1. Pyridine, 2,3,4,5-tetrahydro- (8CI9CI) 83 C5H9N
2. Cyclopropane (DOT)(8CI9CI) 42 C3H6
3. Oxirane, ethenyl- (9CI) 70 C4H6O

Sample file: >C5915 Spectrum #: 427
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	20*	505180	5562	"BIGDB	38	55	2	0	169	54	5			18
2.	20*	75194	216	"BIGDB	25	65	1	0	100	51	5			14
3.	15*	930223	223	"BIGDB	32	50	0	0	63	63	3			42

Peak#: 2 Area: 96929. Est Conc: 11. Date: 02/01/93 15:40 Inst: C



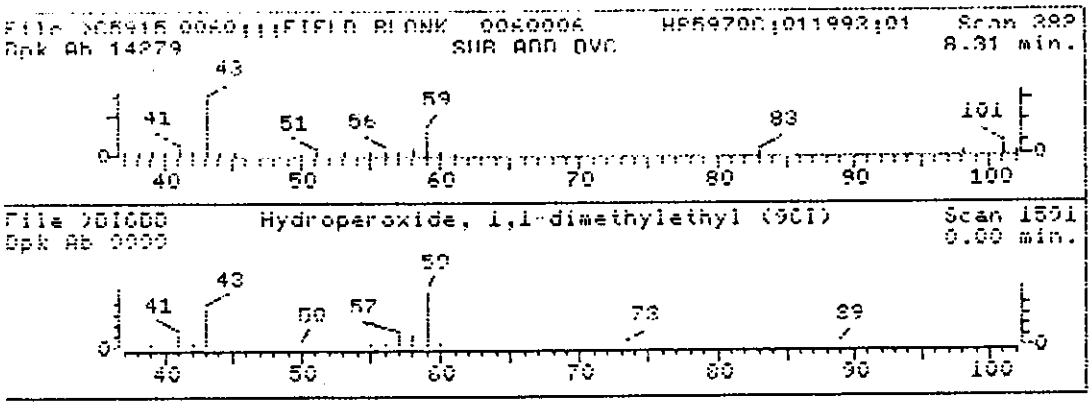
```
Ca  t interpret this parameter... Perhaps you have mistyped
tt  run string or have forgotten the order of the run string.

 RPN error for command: RSPA3
 RPN error:  -5
Bad record length RSP
```

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 9H C4H10O2

Sample file: >C5915 Spectrum #: 3R2
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C	I	R	IU
1.	25	75912	1591	"RIGOR	35	30	1	0	36	50	7	13		

Peak#: 1 Area: 5A793. Fst Conc: 6. Date: 02/01/93 15:40 Inst: C



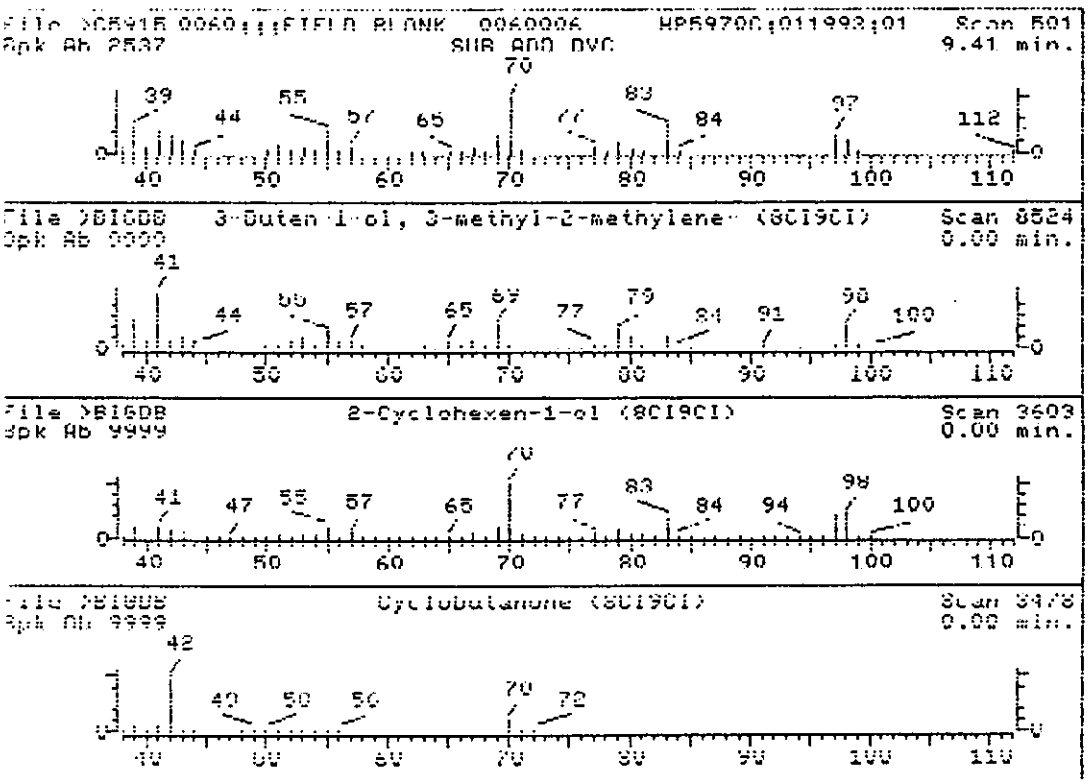
Std record length RNF

1.	3-Buten-1-ol, 3-methyl-2-methylene- (8CI,9CI)	98 C6H10O
2.	2-Cyclohexen-1-ol (8CI,9CI)	98 C6H10O
3.	Cyclobutanone (8CI,9CI)	70 C4H6O
4.	Furan, 2,5-dihydro-2,5-dimethyl- (9CI)	98 C6H10O

Sample file: >C5915 Spectrum #: 501
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	NIST	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	26*	26431130	8524	"BIGDB	35	58	1	2	29	36	10			12
2.	25*	822673	3603	"BIGDB	39	60	2	0	61	48	7			15
3.	25*	1191953	3478	"BIGDB	22	54	3	0	381	47	7			12
4.	18*	59242222	8591	"BIGDB	48	42	2	0	46	57	4			28

Peak#: 4 Area: 25346. Est Conc: 3. Date: 02/01/93 15:40 Inst: C



6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0484

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date(s): amend 1/21/93 01/28/93

Calibration Times: 1145 1704

LAB FILE ID: RRF20 =C5897.D RRF50 =C5895.D
RRF80 =C5898.D RRF120=C5899.D RRF160=C5896.D

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	*	1.631	1.686	1.552	1.421	1.365	1.531	8.9*
bis(2-Chloroethyl)ether	*	1.465	1.396	1.451	1.336	1.267	1.383	6.0*
2-Chlorophenol	*	1.416	1.315	1.204	1.123	1.063	1.224	11.6*
1,3-Dichlorobenzene	*	1.511	1.393	1.316	1.238	1.101	1.312	11.8*
1,4-Dichlorobenzene	*	1.585	1.365	1.334	1.226	1.045	1.311	15.1*
1,2-Dichlorobenzene	*	1.413	1.322	1.292	1.125	1.041	1.238	12.2*
2-Methylphenol	*	1.171	1.105	1.023	1.069	1.022	1.078	5.8*
2,2'-oxybis(1-Chloropropane)		2.340	2.525	1.889	2.503	2.335	2.319	11.0
4-Methylphenol	*	1.219	1.150	1.234	1.169	1.044	1.163	6.5*
N-Nitroso-di-n-propylamine	*	1.237	1.306	1.272	1.308	1.221	1.269	3.1*
Hexachloroethane	*	0.598	0.631	0.598	0.557	0.515	0.580	7.7*
Nitrobenzene	*	0.419	0.416	0.424	0.395	0.360	0.403	6.5*
Isophorone	*	0.823	0.874	0.864	0.820	0.515	0.779	19.2*
2-Nitrophenol	*	0.193	0.203	0.203	0.193	0.173	0.193	6.3*
2,4-Dimethylphenol	*	0.340	0.384	0.378	0.362	0.342	0.361	5.6*
bis(2-Chloroethoxy)methane	*	0.536	0.475	0.487	0.464	0.423	0.477	8.5*
2,4-Dichlorophenol	*	0.293	0.307	0.313	0.283	0.267	0.293	6.3*
1,2,4-Trichlorobenzene	*	0.363	0.339	0.337	0.287	0.270	0.319	12.1*
Naphthalene	*	1.057	1.011	0.982	0.856	0.795	0.940	11.7*
4-Chloroaniline		0.391	0.305	0.270	0.320	0.296	0.316	14.4
Hexachlorobutadiene		0.212	0.200	0.182	0.170	0.145	0.182	14.4
4-Chloro-3-methylphenol	*	0.392	0.385	0.384	0.364	0.331	0.371	6.7*
2-Methylnaphthalene	*	0.801	0.737	0.697	0.615	0.590	0.688	12.6*
Hexachlorocyclopentadiene		0.384	0.365	0.344	0.375	0.357	0.365	4.2
2,4,6-Trichlorophenol	*	0.408	0.397	0.418	0.411	0.414	0.409	1.9*
2,4,5-Trichlorophenol	*	0.000	0.424	0.384	0.409	0.373	0.397	5.8*
2-Chloronaphthalene	*	1.166	1.058	0.988	1.002	0.923	1.027	8.9*
2-Nitroaniline		0.000	0.419	0.444	0.519	0.473	0.464	9.2
Dimethylphthalate		1.573	1.342	1.416	1.479	1.361	1.434	6.6
Acenaphthylene	*	1.808	1.592	1.431	1.387	1.229	1.489	14.8*
2,6-Dinitrotoluene	*	0.292	0.289	0.277	0.278	0.265	0.280	3.9*
3-Nitroaniline		0.000	0.082	0.078	0.116	0.160	0.109	34.9
Acenaphthene	*	1.076	1.081	1.037	1.031	0.957	1.036	4.8*
2,4-Dinitrophenol		0.000	0.126	0.148	0.192	0.198	0.166	20.9
4-Nitrophenol		0.000	0.142	0.161	0.208	0.189	0.175	16.7
Dibenzofuran	*	1.640	1.437	1.412	1.436	1.259	1.437	9.4*
2,4-Dinitrotoluene	*	0.390	0.428	0.469	0.535	0.480	0.460	12.0*

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0485

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date(s): 01/28/93 cmc2/12/93

Calibration Times: 1145 1704

LAB FILE ID: RRF20 =C5897.D RRF50 =C5895.D
RRF80 =C5898.D RRF120=C5899.D RRF160=C5896.D

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate		1.658	1.429	1.447	1.501	1.354	1.478	7.7
4-Chlorophenyl-phenylether	*	0.638	0.546	0.458	0.434	0.396	0.494	19.7*
Fluorene	*	1.213	0.971	0.938	0.883	0.825	0.966	15.4*
4-Nitroaniline		0.000	0.134	0.122	0.260	0.260	0.194	39.4
4,6-Dinitro-2-methylphenol		0.000	0.104	0.118	0.131	0.096	0.112	13.6
N-Nitrosodiphenylamine (1)		0.469	0.365	0.359	0.339	0.318	0.370	15.8
4-Bromophenyl-phenylether	*	0.260	0.210	0.208	0.184	0.179	0.208	15.4*
Hexachlorobenzene	*	0.341	0.326	0.263	0.241	0.242	0.283	16.8*
Pentachlorophenol	*	0.000	0.179	0.167	0.175	0.171	0.173	3.0*
Phenanthrene	*	1.001	0.981	0.900	0.811	0.807	0.900	10.1*
Anthracene	*	1.122	0.997	0.883	0.765	0.745	0.902	17.6*
Carbazole		0.698	0.474	0.378	0.398	0.444	0.478	26.8
Di-n-butylphthalate		1.312	1.356	1.216	1.050	1.060	1.199	11.8
Fluoranthene	*	1.016	1.024	0.900	0.844	0.877	0.932	8.9*
Pyrene	*	1.694	1.306	1.253	1.229	1.171	1.331	15.7*
Butylbenzylphthalate		0.695	0.577	0.630	0.642	0.636	0.636	6.6
3,3'-Dichlorobenzidine		0.206	0.185	0.147	0.193	0.229	0.192	15.8
Benzo(a)anthracene	*	1.054	0.990	0.937	1.023	1.062	1.013	5.0*
Chrysene	*	0.989	0.910	0.793	0.719	0.711	0.825	14.8*
bis(2-Ethylhexyl)phthalate		0.876	0.739	0.722	0.707	0.652	0.739	11.3
Di-n-octylphthalate		1.744	1.644	1.804	2.080	2.094	1.873	10.9
Benzo(b)fluoranthene	*	1.244	1.282	1.202	1.301	1.448	1.295	7.2*
Benzo(k)fluoranthene	*	1.247	1.036	1.231	1.162	1.028	1.141	9.1*
Benzo(a)pyrene	*	1.089	1.096	1.057	1.077	1.093	1.082	1.5*
Indeno(1,2,3-cd)pyrene	*	0.687	0.772	0.775	0.664	0.579	0.696	11.7*
Dibenz(a,h)anthracene	*	0.657	0.758	0.799	0.669	0.580	0.693	12.5*
Benzo(g,h,i)perylene	*	0.706	0.777	0.786	0.615	0.533	0.683	15.9*
Nitrobenzene-d5	*	0.427	0.433	0.417	0.421	0.372	0.414	5.8*
2-Fluorobiphenyl	*	1.295	1.180	1.137	1.150	1.062	1.165	7.3*
Terphenyl-d14	*	1.399	1.038	0.988	0.896	0.905	1.045	19.8*
Phenol-d5	*	1.616	1.539	1.573	1.492	1.378	1.520	6.0*
2-Fluorophenol	*	1.241	1.138	1.157	1.108	0.997	1.128	7.8*
2,4,6-Tribromophenol		0.298	0.285	0.304	0.317	0.299	0.301	3.9
2-Chlorophenol-d4	*	1.389	1.223	1.205	1.130	1.086	1.207	9.6*
1,2-Dichlorobenzene-d4	*	1.017	0.904	0.819	0.800	0.681	0.844	14.8*

(1) - Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSC
Output File: ^C5895::QT
Data File: >C5895::C2
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0950

Quant Rev: 6 Quant Time: 930128 12:39
Injected at: 930128 11:45
Dilution Factor: 1.00000

BTL#98

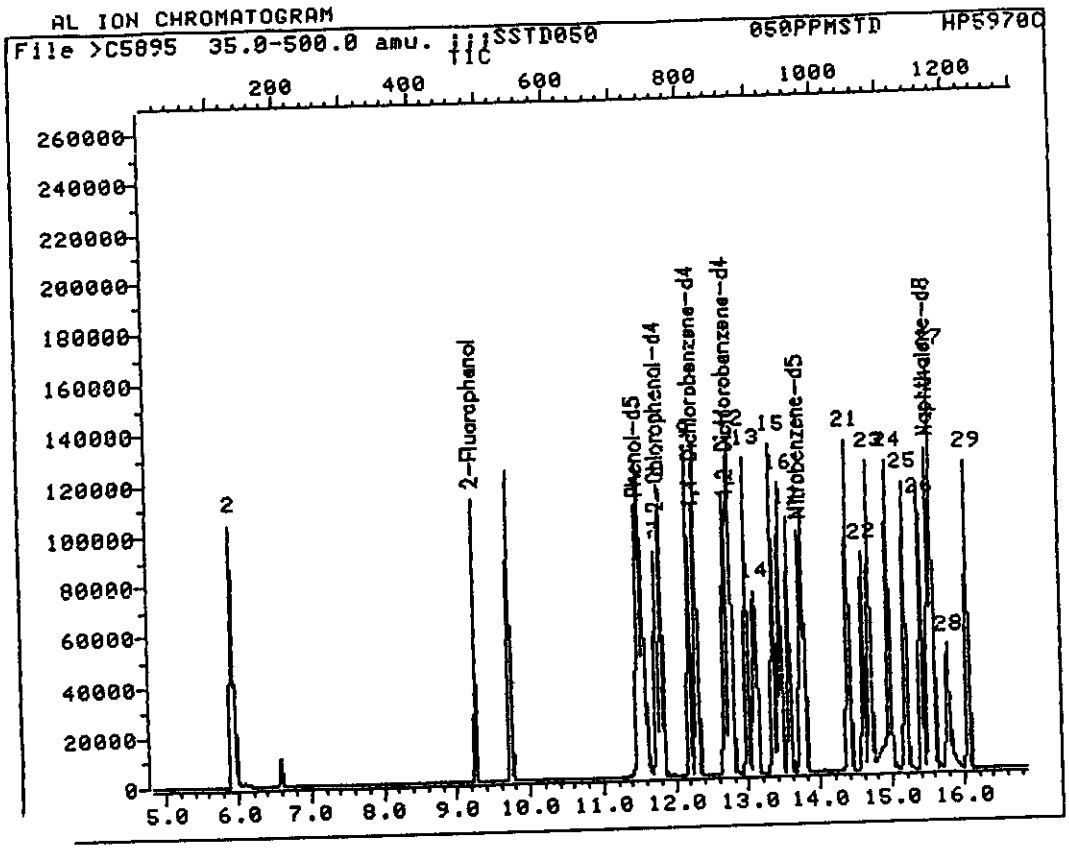
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.26	151.8	34332	40.00	ug	95
2)	Pyridine	5.91	52.0	56262	61.09	ug	92
3)	2-Chlorophenol-d4	11.78	132.0	52486	53.74	ug	96
4)	2-Fluorophenol	9.24	111.8	48830	53.03	ug	83
5)	Phenol-d5	11.48	98.8	66049	51.75	ug	86
6)	Phenol	11.51	93.9	72376	53.26	ug	94
7)	bis(2-Chloroethyl)ether	11.73	92.7	59892	51.74	ug	86
8)	2-Chlorophenol	11.82	127.8	56412	51.46	ug	94
9)	1,3-Dichlorobenzene	12.18	145.8	59786	49.33	ug	96
10)	1,4-Dichlorobenzene	12.31	145.7	58589	53.25	ug	73
11	1,2-Dichlorobenzene-d4	12.73	152.0	38816	47.72	ug	94
12.	1,2-Dichlorobenzene	12.78	145.7	56714	48.00	ug	95
13)	2-Methylphenol	12.97	107.8	47419	50.91	ug	90
14)	2,2'-oxybis(1-Chloropropane)	13.08	44.8	108378	260.10	ug	90
15)	4-Methylphenol	13.34	107.8	49359	50.44	ug	94
16)	N-Nitroso-di-n-propylamine	13.44	69.9	56037	58.17	ug	83
17)	Hexachloroethane	13.55	116.7	27087	50.32	ug	86
18)	*Naphthalene-d8	15.54	135.9	128526	40.00	ug	98
19)	Nitrobenzene-d5	13.73	81.8	69583	56.06	ug	84
20)	Nitrobenzene	13.79	76.8	66767	55.72	ug	90
21)	Isophorone	14.39	81.8	140494	56.04	ug	95
22)	2-Nitrophenol	14.60	138.9	32574	49.97	ug	87
23)	2,4-Dimethylphenol	14.69	106.8	61648	52.78	ug	80
24)	bis(2-Chloroethoxy)methane	14.96	92.8	76309	54.03	ug	79
25)	2,4-Dichlorophenol	15.18	161.7	49329	48.82	ug	89
26)	1,2,4-Trichlorobenzene	15.42	179.7	54439	57.02	ug	95
27)	Naphthalene	15.58	127.9	162438	58.58	ug	85
28)	4-Chloroaniline	15.78	126.8	49013	394.76	ug	95
29)	Hexachlorobutadiene	16.06	224.6	32139	52.44	ug	92
30)	4-Chloro-3-methylphenol	17.01	106.9	61830	52.10	ug	93
31)	2-Methylnaphthalene	17.39	141.9	118375	53.75	ug	97
32)	*Acenaphthene-d10	20.19	163.9	85516	40.00	ug	88
33)	Hexachlorocyclopentadiene	17.98	236.6	39060	42.73	ug	98
34)	2,4,6-Trichlorophenol	18.19	195.8	42472	48.47	ug	80
35)	2,4,5-Trichlorophenol	18.27	195.8	45282	50.57	ug	77
36)	2-Fluorobiphenyl	18.40	171.8	126108	47.80	ug	91
37	2-Chloronaphthalene	18.67	161.8	113146	46.70	ug	91
38)	2-Nitroaniline	19.02	64.9	44822	57.38	ug	83
39)	Dimethylphthalate	19.59	162.8	143463	45.78	ug	94
40)	Acenaphthylene	19.79	152.0	170201	46.96	ug	93
41)	2,6-Dinitrotoluene	19.77	164.8	30940	47.05	ug	86
42)	3-Nitroaniline	20.10	137.8	8811	361.83	ug	95

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.37	183.8	13446	47.30	ug	82
45)	4-Nitrophenol	20.51	108.8	15161	48.43	ug	93
46)	Dibenzofuran	20.70	167.8	153649	43.44	ug	90
47)	2,4-Dinitrotoluene	20.79	164.8	45737	50.90	ug	85
48)	Diethylphthalate	21.45	148.8	152804	46.04	ug	87
49)	4-Chlorophenyl-phenylether	21.60	203.9	58334	44.53	ug	77
50)	Fluorene	21.62	165.9	103773	42.88	ug	99
51)	4-Nitroaniline	21.75	137.9	14276	73.22	ug	84
52)	2,4,6-Tribromophenol	22.28	329.6	30468	50.48	ug	93
53)	*Phenanthrene-d10	24.10	187.9	143226	40.00	ug	98
54)	4,6-Dinitro-2-methylphenol	21.86	197.9	18551	48.90	ug	96
55)	N-Nitrosodiphenylamine (1)	21.93	168.9	65283	52.91	ug	90
56)	4-Bromophenyl-phenylether	22.89	247.9	37673	45.84	ug	82
57)	Hexachlorobenzene	23.28	283.6	58345	51.26	ug	95
58)	Pentachlorophenol	23.74	265.6	32054	59.55	ug	93
59)	Phenanthrene	24.15	177.9	175578	49.93	ug	97
60)	Carbazole	24.69	166.8	84808	85.65	ug	95
61)	Anthracene	24.28	177.9	178413	51.01	ug	99
62)	Di-n-butylphthalate	25.72	148.8	242794	53.19	ug	97
63)	Fluoranthene	27.33	201.9	183414	50.90	ug	93
64)	*Chrysene-d12	31.49	240.0	105740	40.00	ug	97
65)	Pyrene	27.93	201.9	172658	45.93	ug	97
66	Terphenyl-d14	28.33	244.0	137132	50.63	ug	90
67)	Butylbenzylphthalate	29.71	148.8	76243	43.57	ug	92
68)	3,3'-Dichlorobenzidine	31.34	251.9	24419	88.41	ug	96
69)	Benzo(a)anthracene	31.42	228.0	130884	48.98	ug	84
70)	Chrysene	31.56	228.0	120257	46.55	ug	88
71)	bis(2-Ethylhexyl)phthalate	31.61	148.8	97613	38.58	ug	94
72)	*Perylene-d12	38.54	264.0	73596	40.00	ug	93
73)	Di-n-octylphthalate	34.20	148.9	151280	47.62	ug	90
74)	Benzo(b)fluoranthene	36.25	252.0	117915M	52.57	ug	60
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.39~~	~~252.0~~	~~59904~~	~~26.71~~	~~ug~~	~~94~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.25~~	~~252.0~~	~~60277~~	~~27.09~~	~~ug~~	~~78~~
75)	Benzo(k)fluoranthene	36.39	252.0	95329M	42.84	ug	96
76)	Benzo(a)pyrene	38.18	252.0	100808	52.07	ug	91
77)	Indeno(1,2,3-cd)pyrene	47.25	276.0	71038M	49.35	ug	89
78)	Dibenz(a,h)anthracene	47.57	278.0	69771M	46.99	ug	97
79)	Benzo(g,h,i)perylene	49.94	276.0	71460M	43.80	ug	81

MC 1/29/93

* Compound is ISTD



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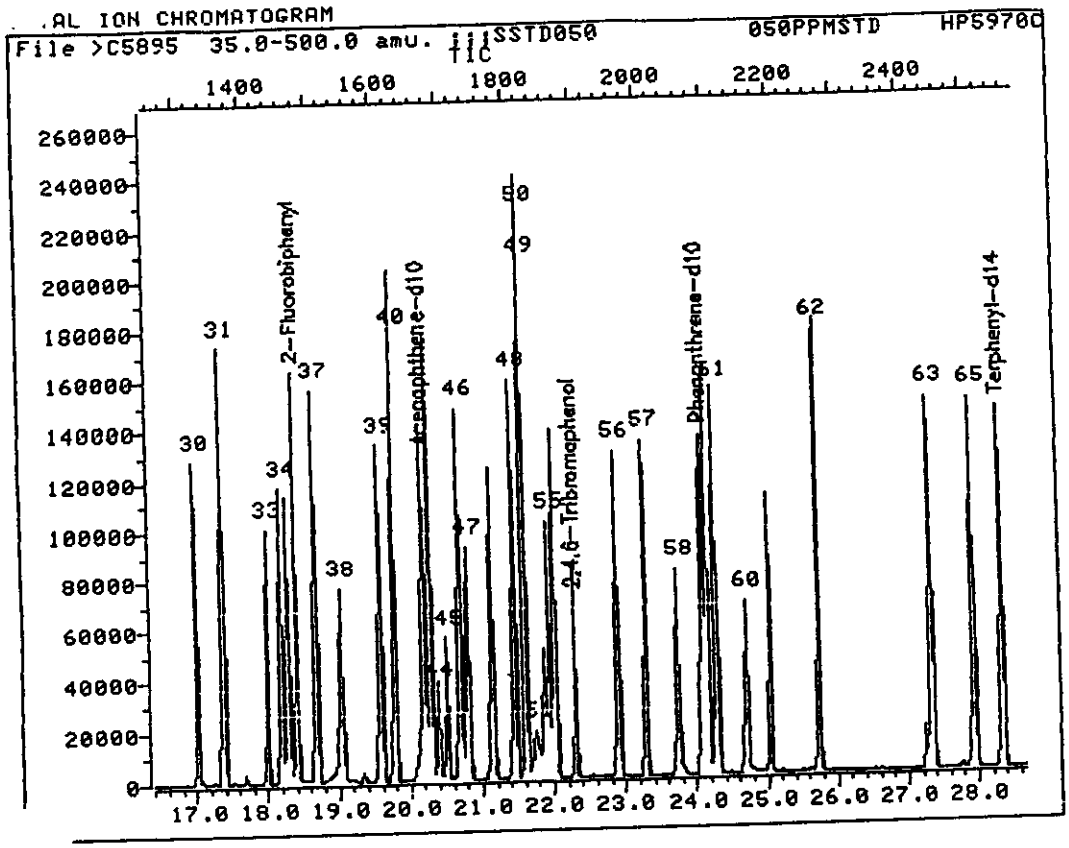
Misc: 050PPMSTD HP5970C;;;;1;;;C0950 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 12:39
Injected at: 930128 11:45

TIC page 1 of 4



Data File: >C5895::C2 Quant Output File: ^C5895::QT

Name: ;;;SSTD050

Misc: 050PPMSTD HP5970C;;;;1;;;C0950 BTL#98

Id File: I_EPA::N1

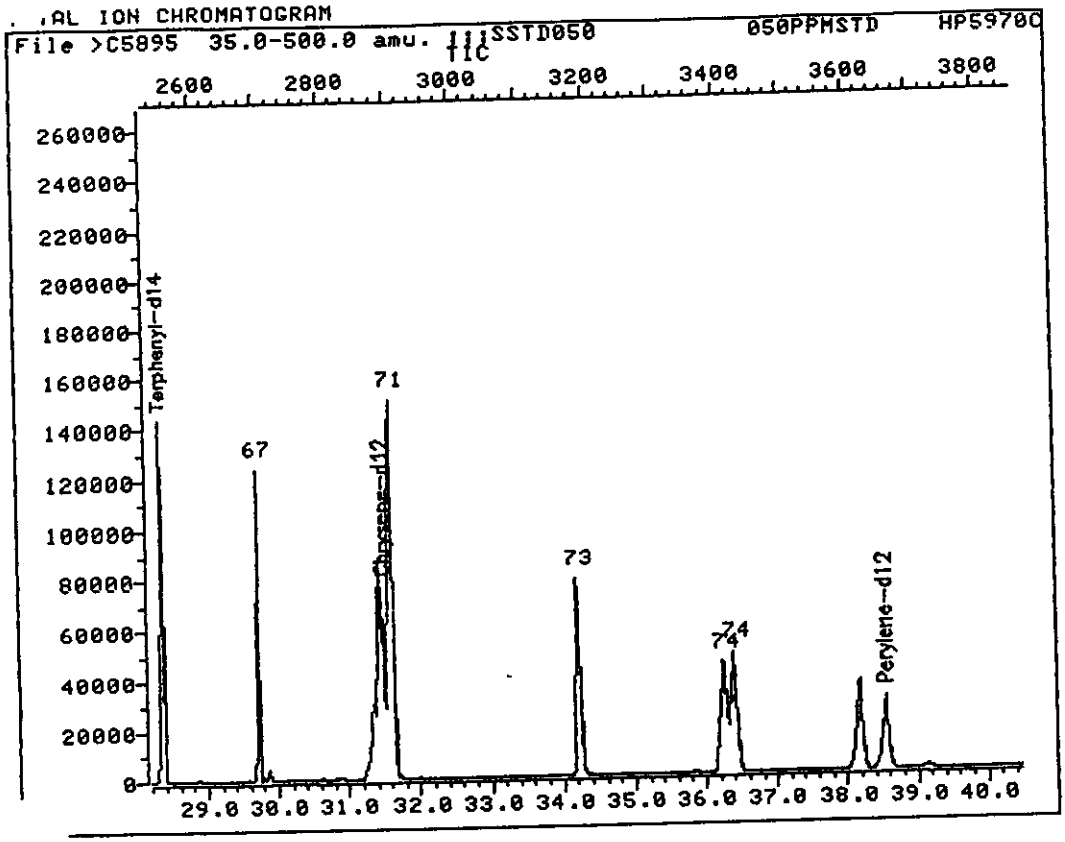
Title: CLP-OLM01.8 BNA COMPOUNDS

Last Calibration: 930126 13:54

Operator ID: MSC

Quant Time: 930128 12:39

Injected at: 930128 11:45

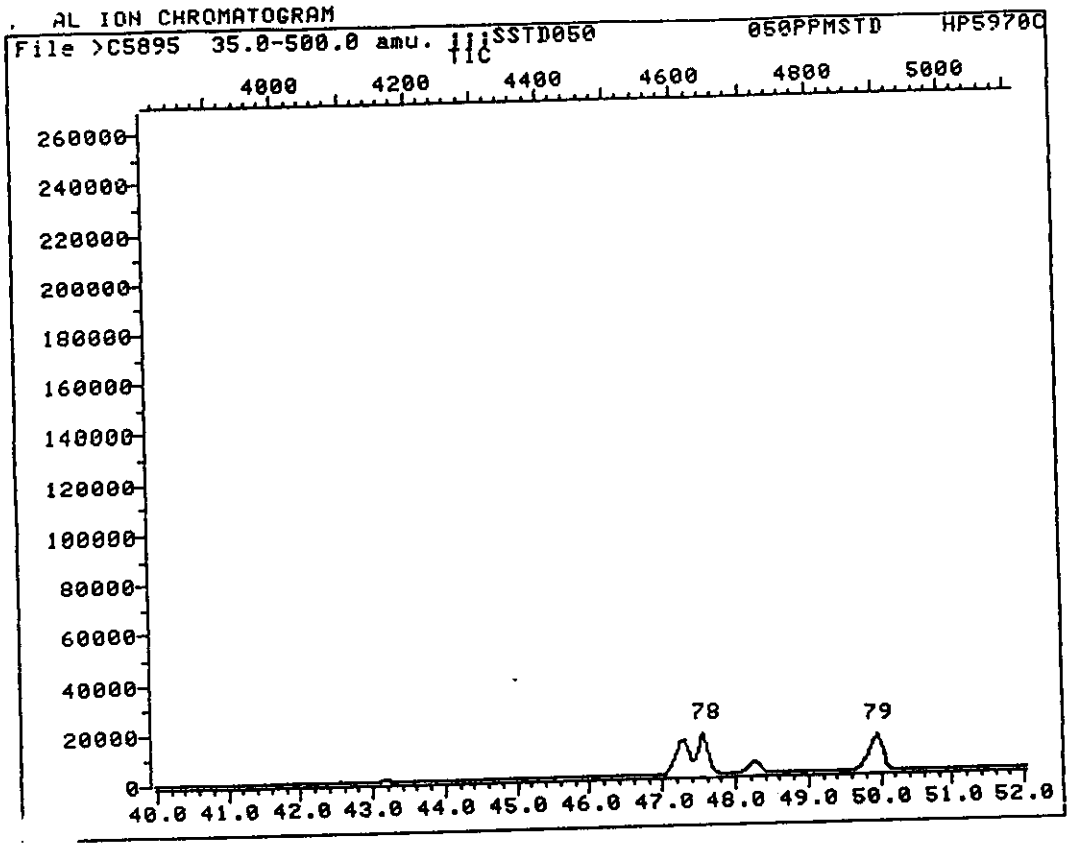


Data File: >C5895::C2 Quant Output File: ^C5895::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0950 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 12:39
Injected at: 930128 11:45

TIC page 3 of 4



Data File: >C5895::C2 Quant Output File: ^C5895::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0950 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 12:39
Injected at: 930128 11:45

TIC page 4 of 4

QUANT REPORT

Operator ID: MSC
Output File: ^C5896::QT
Data File: >C5896::C4
Name: ;;;SSTD160
Misc: 160PPM STD

Quant Rev: 6 Quant Time: 930128 14:27
Injected at: 930128 13:28
Dilution Factor: 1.00000

HP5970C;;;LLW;1;;;C0950 BTL# 1

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

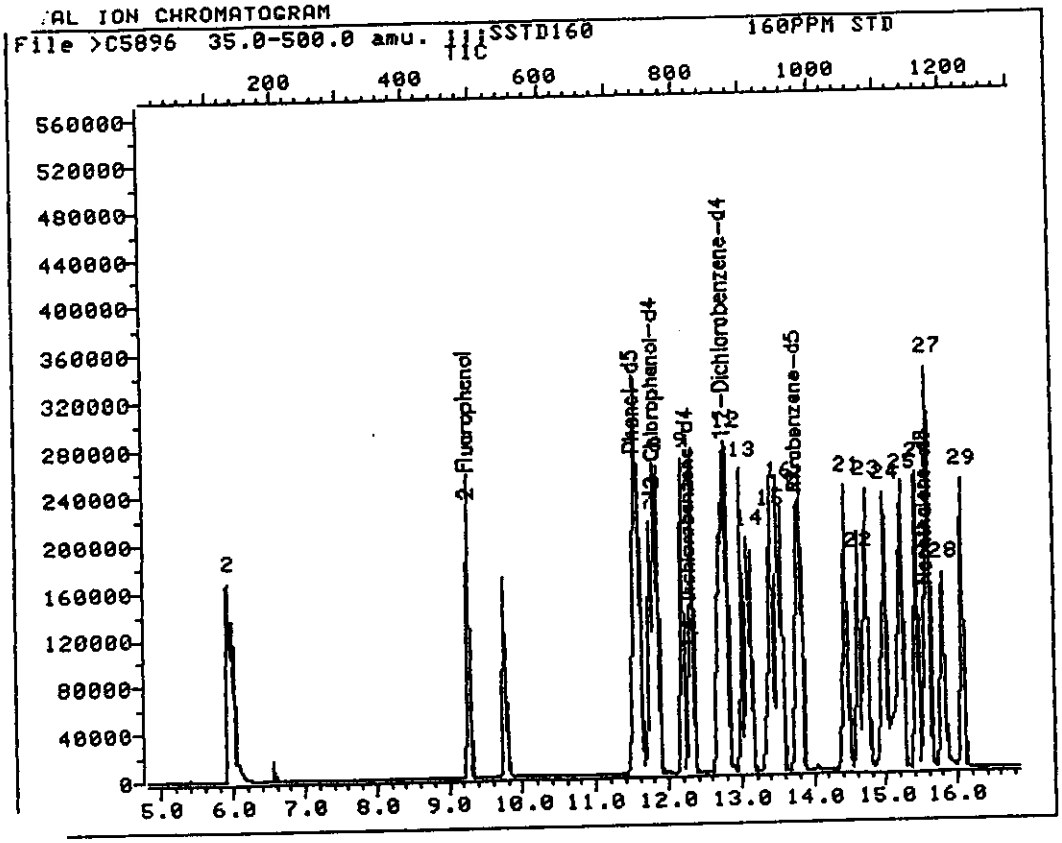
1/29/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.28	151.8	34729	40.00	ug	92
2)	Pyridine	5.91	52.0	159998	171.75	ug	91
3)	2-Chlorophenol-d4	11.81	132.0	150920	152.76	ug	92
4)	2-Fluorophenol	9.26	111.8	138495	148.68	ug	88
5)	Phenol-d5	11.54	98.8	191380	148.23	ug	77
6)	Phenol	11.57	93.9	189614	137.94	ug	70
7)	bis(2-Chloroethyl)ether	11.76	92.7	175991	150.30	ug	87
8)	2-Chlorophenol	11.86	127.8	147683	133.17	ug	88
9)	1,3-Dichlorobenzene	12.19	145.8	152954	124.76	ug	95
10)	1,4-Dichlorobenzene	12.32	145.7	145186	130.45	ug	85
11)	1,2-Dichlorobenzene-d4	12.77	152.0	94584	114.95	ug	96
12)	1,2-Dichlorobenzene	12.80	145.7	144613	120.98	ug	92
13)	2-Methylphenol	13.01	107.8	141952	150.67	ug	90
14)	2,2'-oxybis(1-Chloropropane)	13.09	44.8	324406	769.65	ug	90
15)	4-Methylphenol	13.39	107.8	145031	146.53	ug	92
16)	N-Nitroso-di-n-propylamine	13.51	69.9	169589	174.03	ug	93
17)	Hexachloroethane	13.56	116.7	71573	131.45	ug	93
18)	*Naphthalene-d8	15.55	135.9	136223	40.00	ug	97
19)	Nitrobenzene-d5	13.77	81.8	202793	154.16	ug	89
20)	Nitrobenzene	13.83	76.8	196287	154.55	ug	85
21)	Isophorone	14.46	81.8	280694	105.64	ug	96
22)	2-Nitrophenol	14.62	138.9	94360	136.58	ug	89
23)	2,4-Dimethylphenol	14.74	106.8	186152	150.36	ug	84
24)	bis(2-Chloroethoxy)methane	15.00	92.8	230475	153.95	ug	82
25)	2,4-Dichlorophenol	15.23	161.7	145632	136.00	ug	96
26)	1,2,4-Trichlorobenzene	15.45	179.7	147187	145.45	ug	87
27)	Naphthalene	15.61	127.9	433359	147.45	ug	88
28)	4-Chloroaniline	15.79	126.8	161323	1225.91	ug	94
29)	Hexachlorobutadiene	16.07	224.6	79036	121.68	ug	98
30)	4-Chloro-3-methylphenol	17.03	106.9	180194	143.27	ug	85
31)	2-Methylnaphthalene	17.42	141.9	321379	137.68	ug	98
32)	*Acenaphthene-d10	20.22	163.9	79829	40.00	ug	83
33)	Hexachlorocyclopentadiene	18.00	236.6	114006	133.59	ug	92
34)	2,4,6-Trichlorophenol	18.22	195.8	132041	161.44	ug	98
35)	2,4,5-Trichlorophenol	18.31	195.8	119077	142.46	ug	80
36)	2-Fluorobiphenyl	18.43	171.8	339185	137.73	ug	96
37	2-Chloronaphthalene	18.70	161.8	294625	130.27	ug	94
38)	2-Nitroaniline	19.05	64.9	151089	207.21	ug	87
39)	Dimethylphthalate	19.62	162.8	434541	148.54	ug	92
40)	Acenaphthylene	19.81	152.0	392283	115.94	ug	98
41)	2,6-Dinitrotoluene	19.81	164.8	84537M	137.72	ug	
42)	3-Nitroaniline	20.13	137.8	51148	2250.04	ug	90

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.43	183.8	63221	238.26	ug	95
45)	4-Nitrophenol	20.56	108.8	60492	207.02	ug	91
46)	Dibenzofuran	20.73	167.8	402113	121.80	ug	94
47)	2,4-Dinitrotoluene	20.84	164.8	153211	182.67	ug	89
48)	Diethylphthalate	21.49	148.8	432342	139.54	ug	95
49)	4-Chlorophenyl-phenylether	21.64	203.9	126545	103.48	ug	92
50)	Fluorene	21.66	165.9	263386	116.58	ug	86
51)	4-Nitroaniline	21.75	137.9	83178M	456.97	ug	
52)	2,4,6-Tribromophenol	22.33	329.6	95596	169.68	ug	94
53)	*Phenanthrene-d10	24.11	187.9	152793	40.00	ug	99
54)	4,6-Dinitro-2-methylphenol	21.93	197.9	58823	145.34	ug	85
55)	N-Nitrosodiphenylamine (1)	21.97	168.9	194124	147.48	ug	97
56)	4-Bromophenyl-phenylether	22.91	247.9	109324	124.68	ug	95
57)	Hexachlorobenzene	23.32	283.6	148065	121.95	ug	92
58)	Pentachlorophenol	23.78	265.6	104640	182.24	ug	91
59)	Phenanthrene	24.19	177.9	493264	131.50	ug	97
60)	Carbazole	24.71	166.8	271177	256.73	ug	99
61)	Anthracene	24.31	177.9	455116	121.98	ug	98
62)	Di-n-butylphthalate	25.76	148.8	647601	132.99	ug	99
63)	Fluoranthene	27.37	201.9	535895	139.40	ug	92
64)	*Chrysene-d12	31.54	240.0	112153	40.00	ug	98
65)	Pyrene	27.96	201.9	525484	131.79	ug	97
66	Terphenyl-d14	28.36	244.0	405993	141.33	ug	99
67)	Butylbenzylphthalate	29.74	148.8	285541	153.84	ug	95
68)	3,3'-Dichlorobenzidine	31.39	251.9	102953	351.43	ug	88
69)	Benzo(a)anthracene	31.48	228.0	476356	168.06	ug	98
70)	Chrysene	31.61	228.0	318960	116.40	ug	91
71)	bis(2-Ethylhexyl)phthalate	31.66	148.8	292426	108.96	ug	97
72)	*Perylene-d12	38.58	264.0	82776	40.00	ug	92
73)	Di-n-octylphthalate	34.27	148.9	693463	194.09	ug	91
74)	Benzo(b)fluoranthene	36.35	252.0	479489M	190.07	ug	97
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.50~~	~~252.0~~	~~169520~~	~~67.20~~	~~ug~~	~~92~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.35~~	~~252.0~~	~~341251~~	~~136.35~~	~~ug~~	~~94~~
75)	Benzo(k)fluoranthene	36.50	252.0	340298M	135.97	ug	94
76)	Benzo(a)pyrene	38.27	252.0	362005	166.25	ug	94
77)	Indeno(1,2,3-cd)pyrene	47.36	276.0	191842M	118.49	ug	96
78)	Dibenz(a,h)anthracene	47.65	278.0	191969M	114.94	ug	78
79)	Benzo(g,h,i)perylene	50.00	276.0	176422M	96.13	ug	85

GMC 1/29/93

* Compound is ISTD



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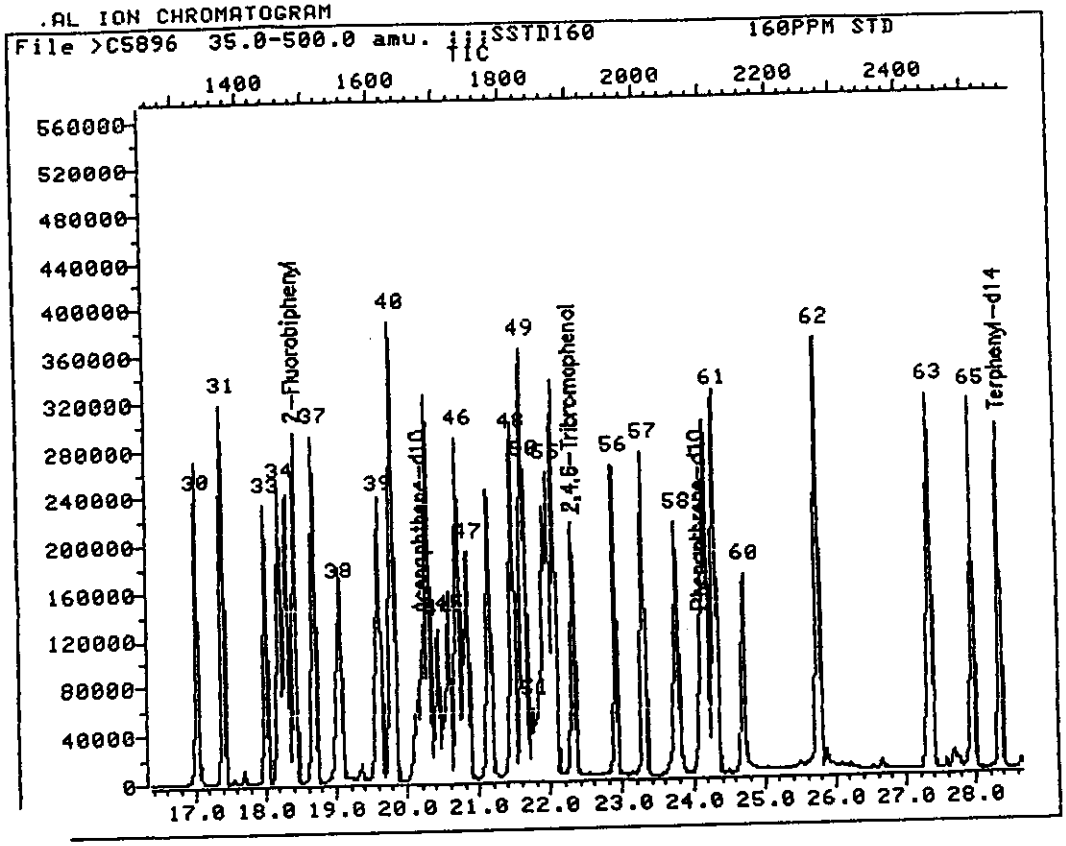
Misc: 160PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 14:27
Injected at: 930128 13:28

TIC page 1 of 4



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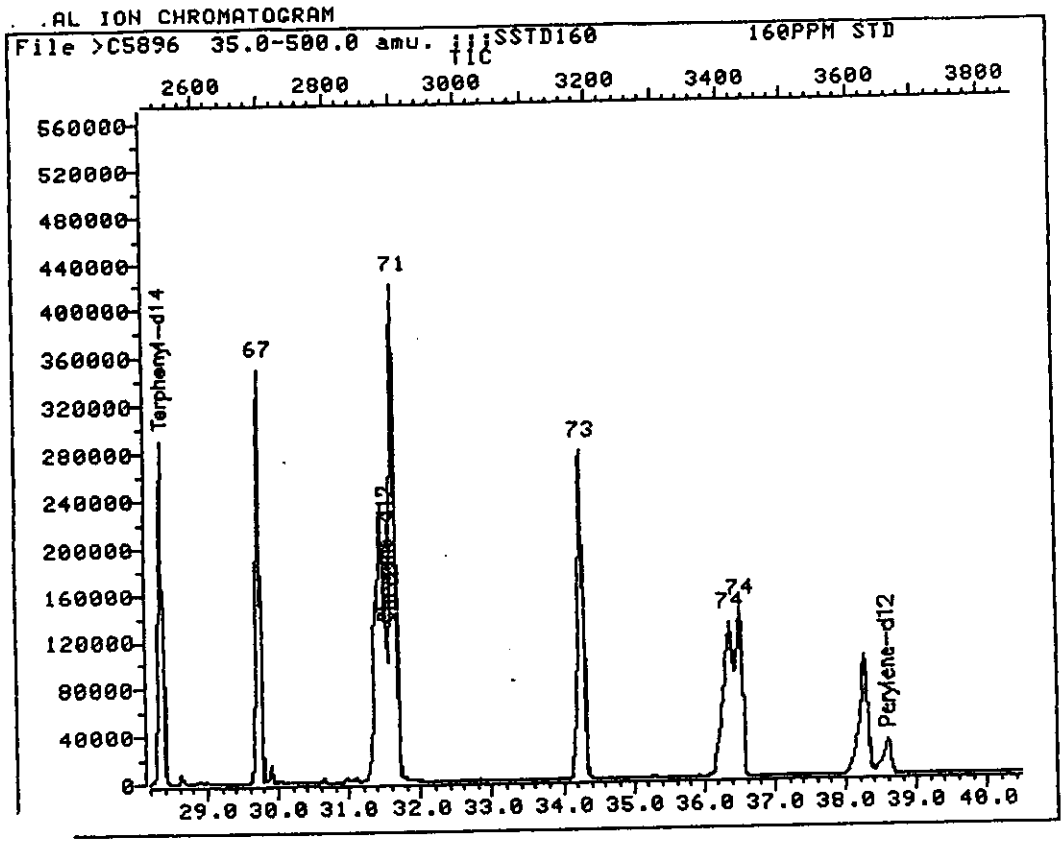
Name: ;;;SSTD160
Misc: 160PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 14:27
Injected at: 930128 13:28

TIC page 2 of 4



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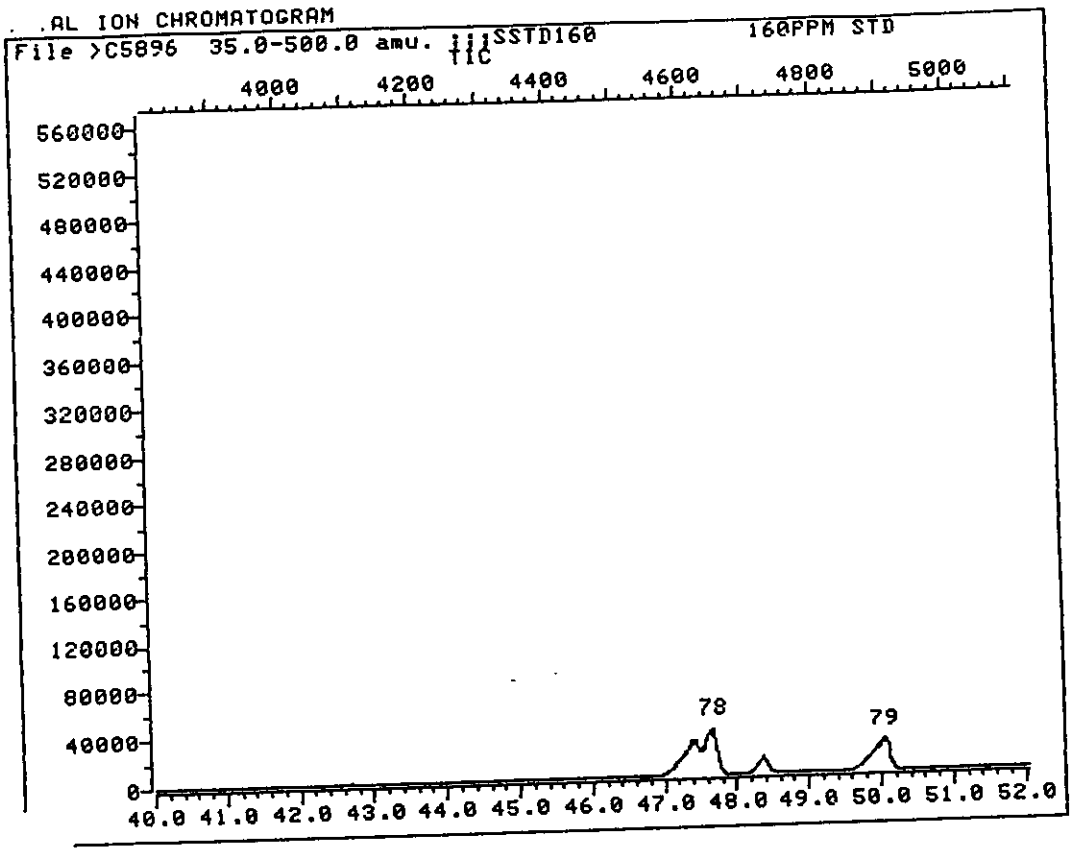
Name: ;;;SSTD160
Misc: 160PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 14:27
Injected at: 930128 13:28

TIC page 3 of 4



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Name: ;;;SSTD160
Misc: 160PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 14:27
Injected at: 930128 13:28

TIC page 4 of 4

QUANT REPORT

Operator ID: MSC
Output File: ^C5897::QT
Data File: >C5897::C4
Name: ;;;SSTD020
Misc: 020PPM STD

Quant Rev: 6 Quant Time: 930128 15:55
Injected at: 930128 15:01
Dilution Factor: 1.00000

HP5970C;;;LLW;1;;;C0950 BTL# 1

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

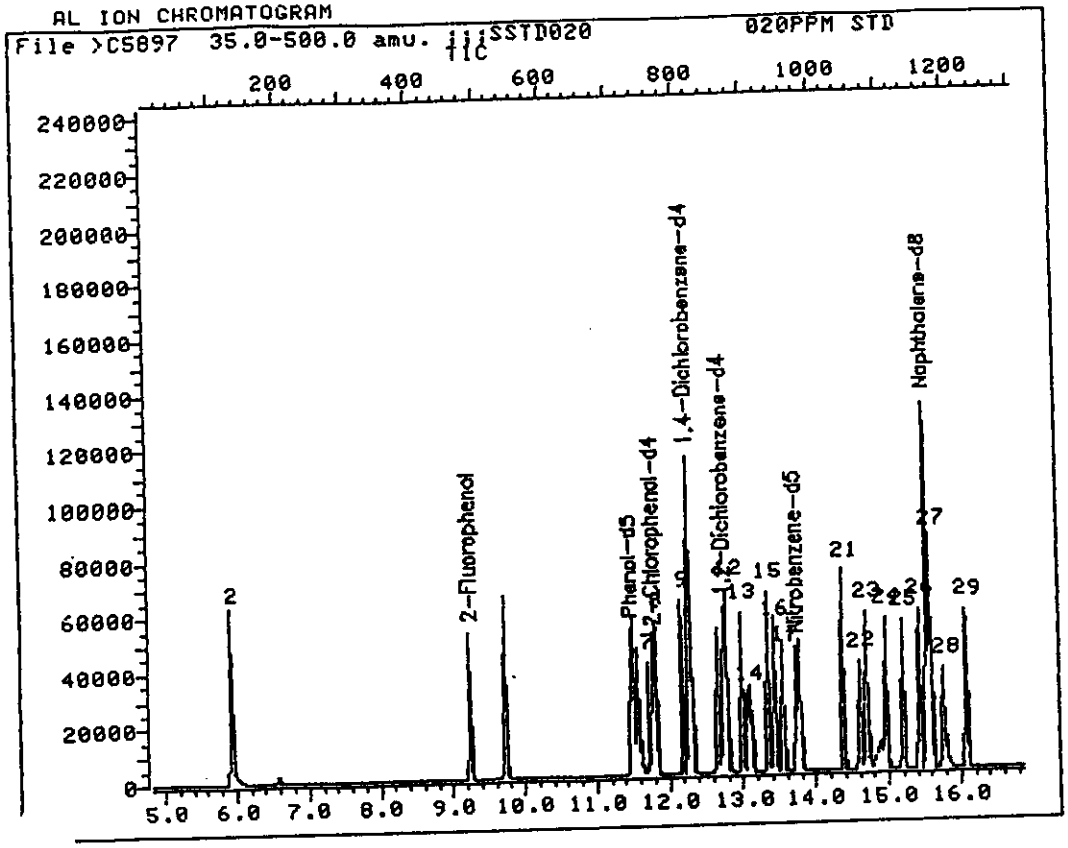
JMC 1/29/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.26	151.8	37522	40.00	ug	96
2)	Pyridine	5.92	52.0	28201	28.02	ug	90
3)	2-Chlorophenol-d4	11.77	132.0	26055	24.41	ug	96
4)	2-Fluorophenol	9.24	111.8	23287	23.14	ug	90
5)	Phenol-d5	11.47	98.8	30318	21.73	ug	81
6)	Phenol	11.50	93.9	30593	20.60	ug	95
7)	bis(2-Chloroethyl)ether	11.71	92.7	27488	21.73	ug	91
8)	2-Chlorophenol	11.81	127.8	26559	22.17	ug	94
9)	1,3-Dichlorobenzene	12.17	145.8	28339	21.40	ug	97
10)	1,4-Dichlorobenzene	12.30	145.7	29729	24.72	ug	93
11	1,2-Dichlorobenzene-d4	12.73	152.0	19080	21.46	ug	89
12,	1,2-Dichlorobenzene	12.77	145.7	26507	20.53	ug	95
13)	2-Methylphenol	12.97	107.8	21977	21.59	ug	85
14)	2,2'-oxybis(1-Chloropropane)	13.06	44.8	43902M	96.40	ug	
15)	4-Methylphenol	13.33	107.8	22873	21.39	ug	96
16)	N-Nitroso-di-n-propylamine	13.41	69.9	23207	22.04	ug	97
17)	Hexachloroethane	13.54	116.7	11226	19.08	ug	76
18)	*Naphthalene-d8	15.53	135.9	141390	40.00	ug	99
19)	Nitrobenzene-d5	13.72	81.8	30184	22.11	ug	79
20)	Nitrobenzene	13.77	76.8	29614	22.47	ug	92
21)	Isophorone	14.37	81.8	58190	21.10	ug	97
22)	2-Nitrophenol	14.59	138.9	13659	19.05	ug	81
23)	2,4-Dimethylphenol	14.68	106.8	24019	18.69	ug	89
24)	bis(2-Chloroethoxy)methane	14.95	92.8	37873	24.37	ug	90
25)	2,4-Dichlorophenol	15.18	161.7	20683	18.61	ug	97
26)	1,2,4-Trichlorobenzene	15.42	179.7	25634	24.41	ug	89
27)	Naphthalene	15.58	127.9	74718	24.49	ug	87
28)	4-Chloroaniline	15.77	126.8	27649	202.43	ug	98
29)	Hexachlorobutadiene	16.05	224.6	15021	22.28	ug	90
30)	4-Chloro-3-methylphenol	17.00	106.9	27730	21.24	ug	90
31)	2-Methylnaphthalene	17.38	141.9	56602	23.36	ug	94
32)	*Acenaphthene-d10	20.19	163.9	88057	40.00	ug	95
33)	Hexachlorocyclopentadiene	17.98	236.6	16906	17.96	ug	89
34)	2,4,6-Trichlorophenol	18.19	195.8	17953	19.90	ug	91
36)	2-Fluorobiphenyl	18.40	171.8	57016	20.99	ug	98
37	2-Chloronaphthalene	18.67	161.8	51348	20.58	ug	92
39	Dimethylphthalate	19.57	162.8	69243	21.46	ug	90
40)	Acenaphthylene	19.79	152.0	79608	21.33	ug	92
41)	2,6-Dinitrotoluene	19.76	164.8	12856	18.99	ug	90
43)	Acenaphthene	20.29	152.9	47362	19.17	ug	80
46)	Dibenzofuran	20.69	167.8	72214	19.83	ug	90
		20.79	164.8	17154	18.54	ug	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
49)	4-Chlorophenyl-phenylether	21.60	203.9	28081	20.82	ug	90
50)	Fluorene	21.61	165.9	53423	21.44	ug	99
52)	2,4,6-Tribromophenol	22.29	329.6	13101	21.08	ug	78
53)	*Phenanthrene-d10	24.10	187.9	158587	40.00	ug	99
55)	N-Nitrosodiphenylamine (1)	21.93	168.9	37166	27.20	ug	94
56)	4-Bromophenyl-phenylether	22.89	247.9	20600	22.64	ug	79
57)	Hexachlorobenzene	23.29	283.6	27026	21.45	ug	83
59)	Phenanthrene	24.16	177.9	79383	20.39	ug	96
60)	Carbazole	24.69	166.8	55308	50.45	ug	98
61)	Anthracene	24.28	177.9	88983	22.98	ug	96
62)	Di-n-butylphthalate	25.73	148.8	104034	20.58	ug	98
63)	Fluoranthene	27.33	201.9	80524	20.18	ug	95
64)	*Chrysene-d12	31.48	240.0	94871	40.00	ug	93
65)	Pyrene	27.94	201.9	80360	23.83	ug	98
66)	Terphenyl-d14	28.33	244.0	66369	27.31	ug	97
67)	Butylbenzylphthalate	29.71	148.8	32968	21.00	ug	98
68)	3,3'-Dichlorobenzidine	31.32	251.9	9784	39.48	ug	96
69)	Benzo(a)anthracene	31.43	228.0	49975	20.84	ug	96
70)	Chrysene	31.56	228.0	46935	20.25	ug	96
71)	bis(2-Ethylhexyl)phthalate	31.61	148.8	41573	18.31	ug	87
72)	*Perylene-d12	38.54	264.0	62532	40.00	ug	87
73)	Di-n-octylphthalate	34.22	148.9	54517	20.20	ug	92
74)	Benzo(b)fluoranthene	36.24	252.0	38887M	20.41	ug	97
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.37~~	~~252.0~~	~~38993~~	~~20.46~~	~~ug~~	~~95~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.24~~	~~252.0~~	~~23415~~	~~12.38~~	~~ug~~	~~97~~
75)	Benzo(k)fluoranthene	36.37	252.0	38993	20.62	ug	93
76)	Benzo(a)pyrene	38.15	252.0	34059	20.71	ug	93
77)	Indeno(1,2,3-cd)pyrene	47.25	276.0	21492	17.57	ug	88
78)	Dibenz(a,h)anthracene	47.55	278.0	20549M	16.29	ug	87
79)	Benzo(g,h,i)perylene	49.91	276.0	22077M	15.92	ug	85

GMC 4/29/93

* Compound is ISTD



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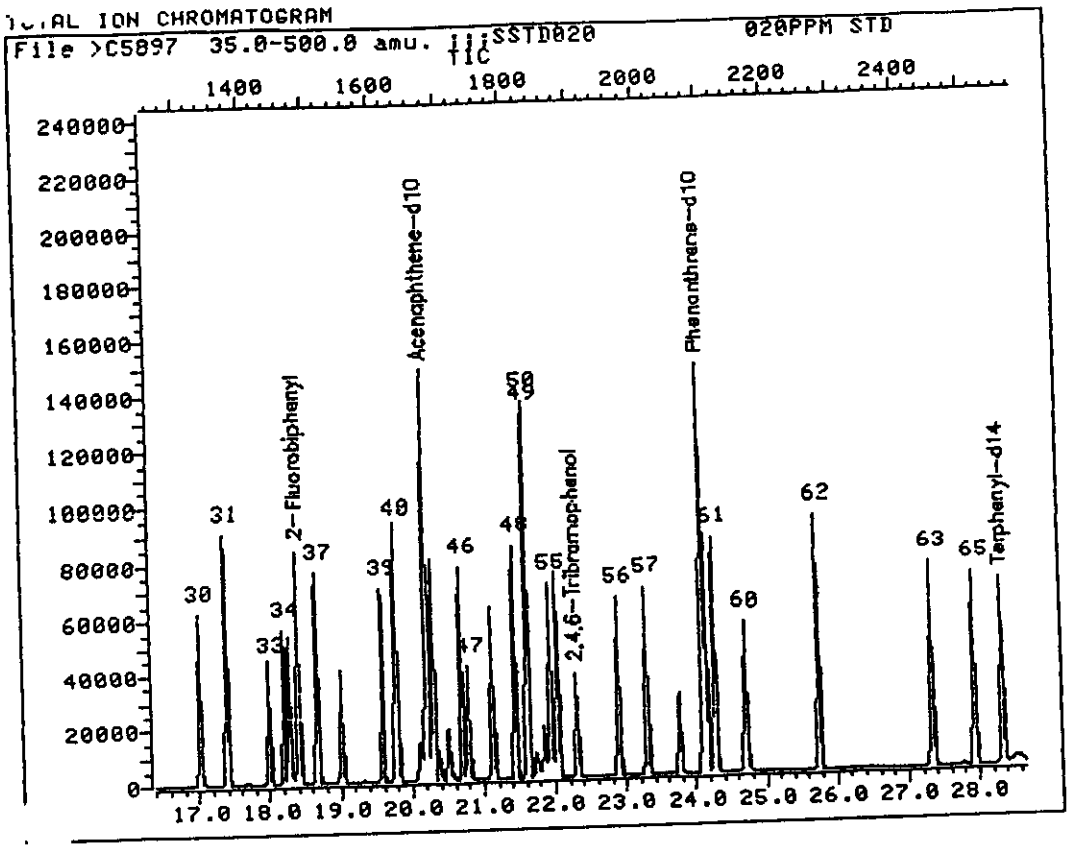
Name: ;;;SSTD020
Misc: 020PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 15:55
Injected at: 930128 15:01



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Name: ;;;SSTD020
Misc: 020PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 15:55
Injected at: 930128 15:01

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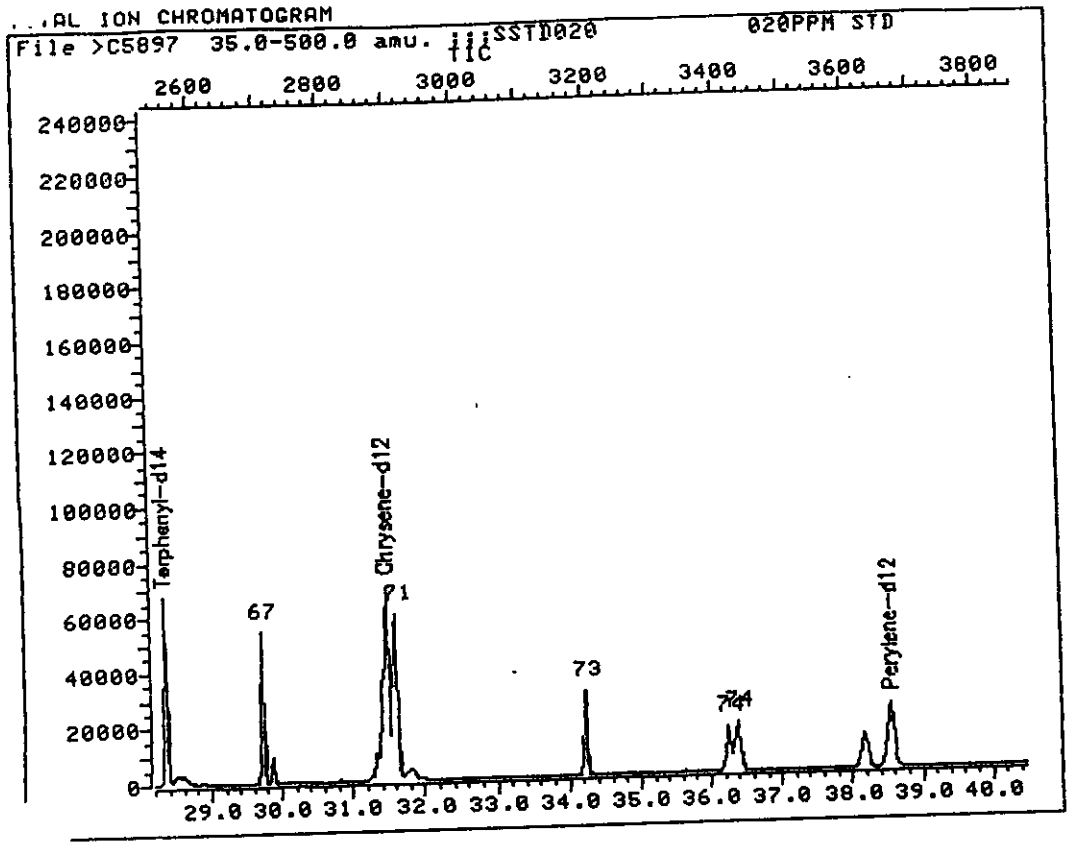

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Name: ;;;SSTD020
Misc: 020PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 15:55
Injected at: 930128 15:01

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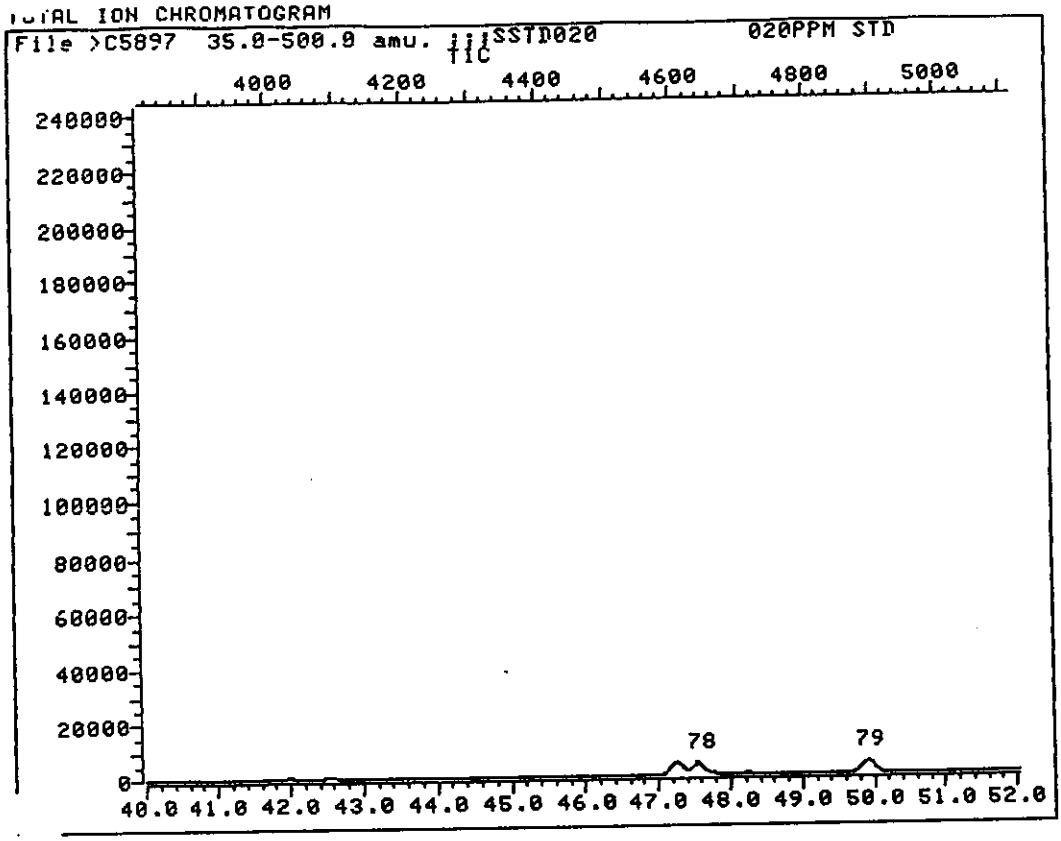

Data File: >C5897::C4 Quant Output File: ^C5897::QT
Name: ;;;SSTD020
Misc: 020PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 15:55
Injected at: 930128 15:01

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QUANT REPORT

Operator ID: MSC
Output File: ^C5898::QT
Data File: >C5898::C4
Name: ;;;SSTD080
Misc: 080PPM STD

Quant Rev: 6 Quant Time: 930128 16:56
Injected at: 930128 16:02
Dilution Factor: 1.00000

HP5970C;;;LLW;1;;;C0950 BTL# 2

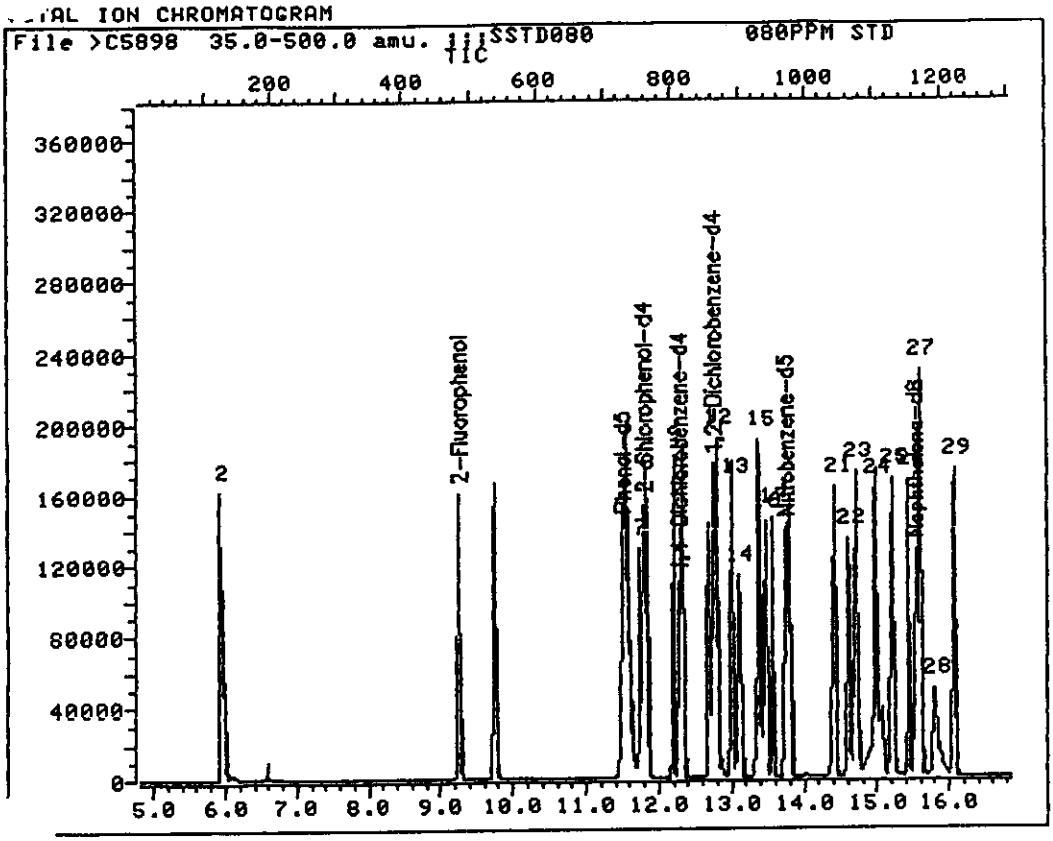
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.28	151.8	34191	40.00	ug	95
2)	Pyridine	5.91	52.0	87039	94.90	ug	94
3)	2-Chlorophenol-d4	11.80	132.0	82367	84.68	ug	97
4)	2-Fluorophenol	9.25	111.8	79111	86.26	ug	91
5)	Phenol-d5	11.50	98.8	107582	84.64	ug	77
6)	Phenol	11.54	93.9	106133	78.43	ug	87
7)	bis(2-Chloroethyl)ether	11.74	92.7	99232	86.08	ug	89
8)	2-Chlorophenol	11.83	127.8	82309	75.39	ug	91
9)	1,3-Dichlorobenzene	12.19	145.8	90009	74.57	ug	89
10)	1,4-Dichlorobenzene	12.32	145.7	91199	83.23	ug	97
11	1,2-Dichlorobenzene-d4	12.75	152.0	56011	69.14	ug	93
12.	1,2-Dichlorobenzene	12.79	145.7	88339	75.07	ug	96
13)	2-Methylphenol	13.00	107.8	69926	75.39	ug	92
14)	2,2'-oxybis(1-Chloropropane)	13.08	44.8	129188	311.32	ug	84
15)	4-Methylphenol	13.36	107.8	84407	86.62	ug	97
16)	N-Nitroso-di-n-propylamine	13.46	69.9	86975	90.66	ug	83
17)	Hexachloroethane	13.56	116.7	40897	76.29	ug	81
18)	*Naphthalene-d8	15.54	135.9	128680	40.00	ug	98
19)	Nitrobenzene-d5	13.75	81.8	107405	86.43	ug	96
20)	Nitrobenzene	13.81	76.8	109002	90.86	ug	81
21)	Isophorone	14.42	81.8	222240	88.54	ug	95
22)	2-Nitrophenol	14.61	138.9	52225	80.02	ug	89
23)	2,4-Dimethylphenol	14.70	106.8	97396	83.28	ug	92
24)	bis(2-Chloroethoxy)methane	14.97	92.8	125368	88.65	ug	88
25)	2,4-Dichlorophenol	15.21	161.7	80614	79.69	ug	87
26)	1,2,4-Trichlorobenzene	15.44	179.7	86767	90.77	ug	89
27)	Naphthalene	15.60	127.9	252807	91.06	ug	84
28)	4-Chloroaniline	15.78	126.8	69381	558.14	ug	95
29)	Hexachlorobutadiene	16.07	224.6	46934	76.49	ug	95
30)	4-Chloro-3-methylphenol	17.02	106.9	98873	83.22	ug	95
31)	2-Methylnaphthalene	17.40	141.9	179458	81.39	ug	97
32)	*Acenaphthene-d10	20.20	163.9	86327	40.00	ug	94
33)	Hexachlorocyclopentadiene	17.99	236.6	59435	64.40	ug	88
34)	2,4,6-Trichlorophenol	18.20	195.8	72131	81.55	ug	89
35)	2,4,5-Trichlorophenol	18.30	195.8	66235	73.27	ug	85
36)	2-Fluorobiphenyl	18.42	171.8	196289	73.71	ug	95
37	2-Chloronaphthalene	18.68	161.8	170567	69.74	ug	94
38)	2-Nitroaniline	19.03	64.9	76732	97.31	ug	95
39)	Dimethylphthalate	19.61	162.8	244470	77.27	ug	91
40)	Acenaphthylene	19.81	152.0	247076	67.53	ug	92
41)	2,6-Dinitrotoluene	19.79	164.8	47800	72.01	ug	78
42)	3-Nitroaniline	20.10	137.8	13405	545.31	ug	86

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.40	183.8	25568	89.10	ug	92
45)	4-Nitrophenol	20.53	108.8	27880	88.23	ug	55
46)	Dibenzofuran	20.70	167.8	243837	68.30	ug	90
47)	2,4-Dinitrotoluene	20.81	164.8	81025	89.33	ug	92
48)	Diethylphthalate	21.47	148.8	249817	74.56	ug	95
49)	4-Chlorophenyl-phenylether	21.62	203.9	79061	59.78	ug	83
50)	Fluorene	21.63	165.9	161980	66.30	ug	83
51)	4-Nitroaniline	21.78	137.9	21139	107.39	ug	85
52)	2,4,6-Tribromophenol	22.30	329.6	52555	86.26	ug	81
53)	*Phenanthrene-d10	24.11	187.9	161431	40.00	ug	98
54)	4,6-Dinitro-2-methylphenol	21.89	197.9	38162	89.24	ug	89
55)	N-Nitrosodiphenylamine (1)	21.95	168.9	115795	83.26	ug	93
56)	4-Bromophenyl-phenylether	22.90	247.9	67244	72.59	ug	88
57)	Hexachlorobenzene	23.29	283.6	84847	66.14	ug	96
58)	Pentachlorophenol	23.75	265.6	53941	88.91	ug	99
59)	Phenanthrene	24.17	177.9	290427	73.28	ug	96
60)	Carbazole	24.70	166.8	122099	109.41	ug	98
61)	Anthracene	24.29	177.9	285175	72.34	ug	94
62)	Di-n-butylphthalate	25.74	148.8	392646	76.32	ug	99
63)	Fluoranthene	27.34	201.9	290562	71.54	ug	96
64)	*Chrysene-d12	31.50	240.0	116401	40.00	ug	95
65)	Pyrene	27.94	201.9	291648	70.48	ug	97
66)	Terphenyl-d14	28.34	244.0	230070	77.16	ug	98
67)	Butylbenzylphthalate	29.72	148.8	146765	76.19	ug	87
68)	3,3'-Dichlorobenzidine	31.35	251.9	34190	112.45	ug	89
69)	Benzo(a)anthracene	31.43	228.0	218193	74.17	ug	98
70)	Chrysene	31.59	228.0	184660	64.93	ug	95
71)	bis(2-Ethylhexyl)phthalate	31.62	148.8	168065	60.34	ug	91
72)	*Perylene-d12	38.58	264.0	81287M	40.00	ug	95
73)	Di-n-octylphthalate	34.24	148.9	293306	83.60	ug	88
74)	Benzo(b)fluoranthene	36.29	252.0	195357M	78.86	ug	75
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.45~~	~~252.0~~	~~78809~~	~~31.49~~	~~ug~~	~~94~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.29~~	~~252.0~~	~~143714~~	~~58.48~~	~~ug~~	~~84~~
75)	Benzo(k)fluoranthene	36.45	252.0	200083M	81.41	ug	94
76)	Benzo(a)pyrene	38.21	252.0	171824	80.35	ug	93
77)	Indeno(1,2,3-cd)pyrene	47.36	276.0	125922M	79.20	ug	87
78)	Dibenz(a,h)anthracene	47.64	278.0	129880M	79.19	ug	93
79)	Benzo(g,h,i)perylene	50.04	276.0	127747M	70.89	ug	59

GMC 1/29/93

* Compound is ISTD



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Name: ;;;SSTD080
Misc: 080PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 16:56
Injected at: 930128 16:02

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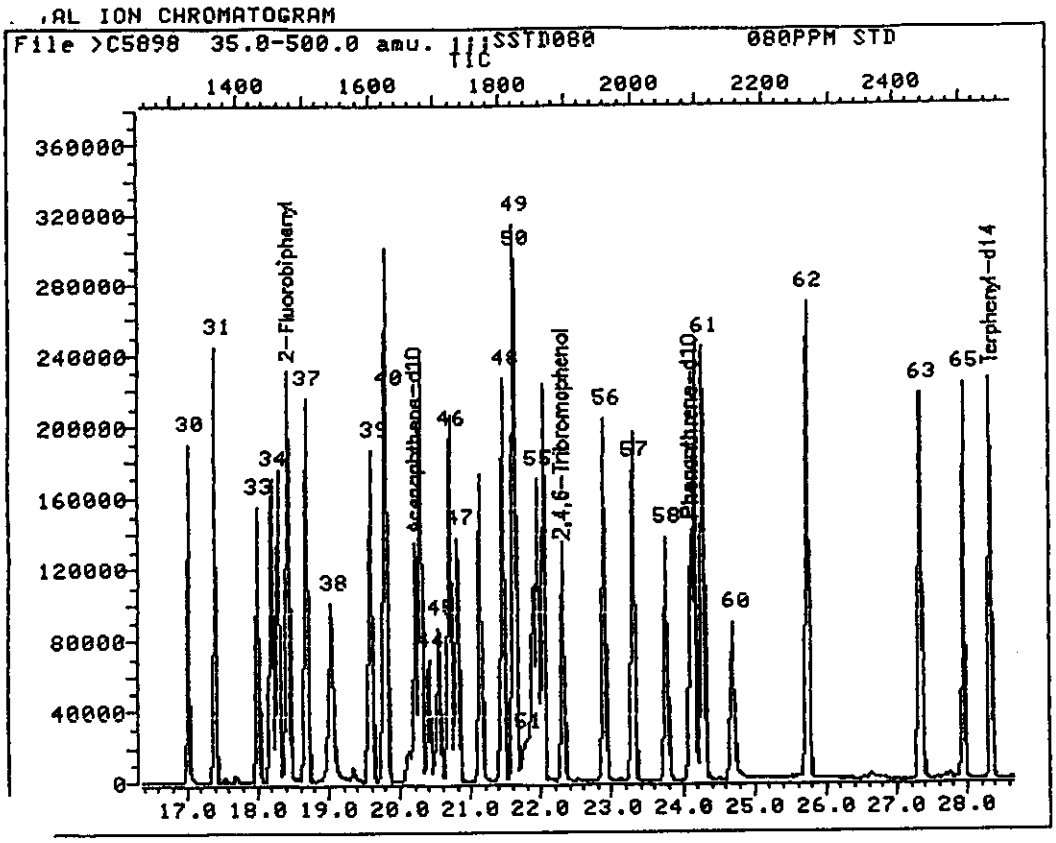

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Name: ;;;SSTD080
Misc: 080PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 16:56
Injected at: 930128 16:02

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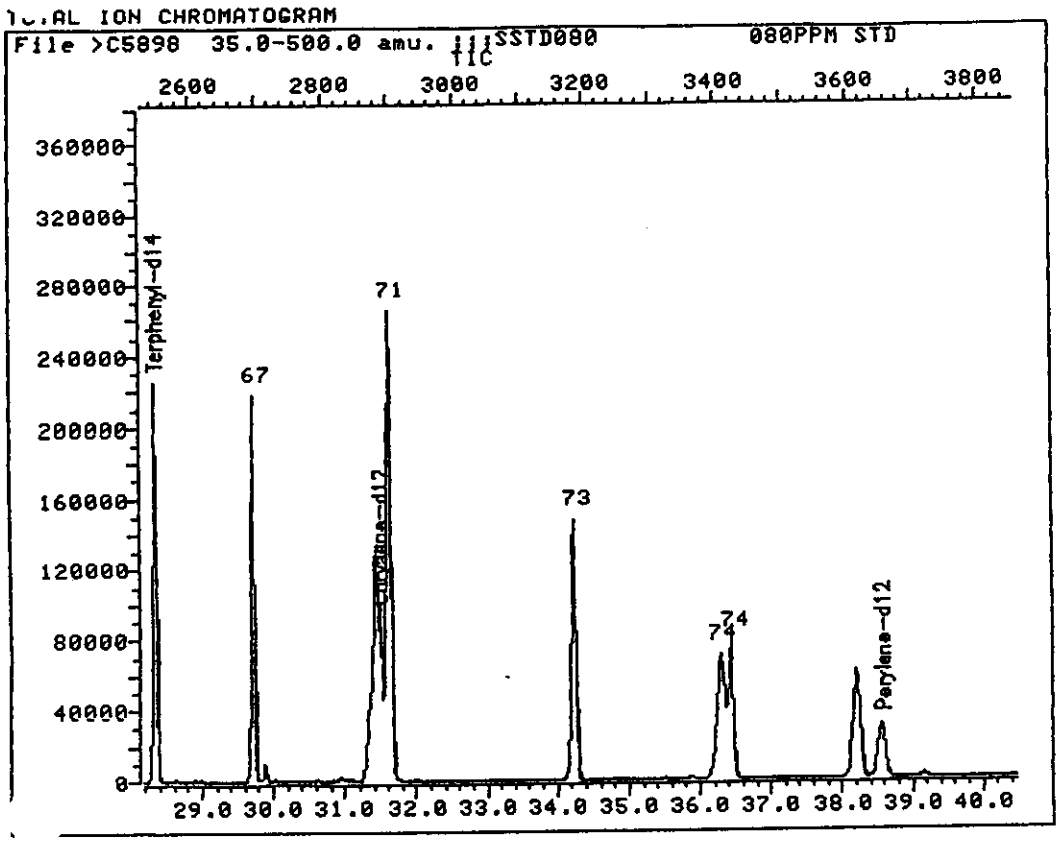

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Name: ;;;SSTD080
Misc: 080PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 16:56
Injected at: 930128 16:02

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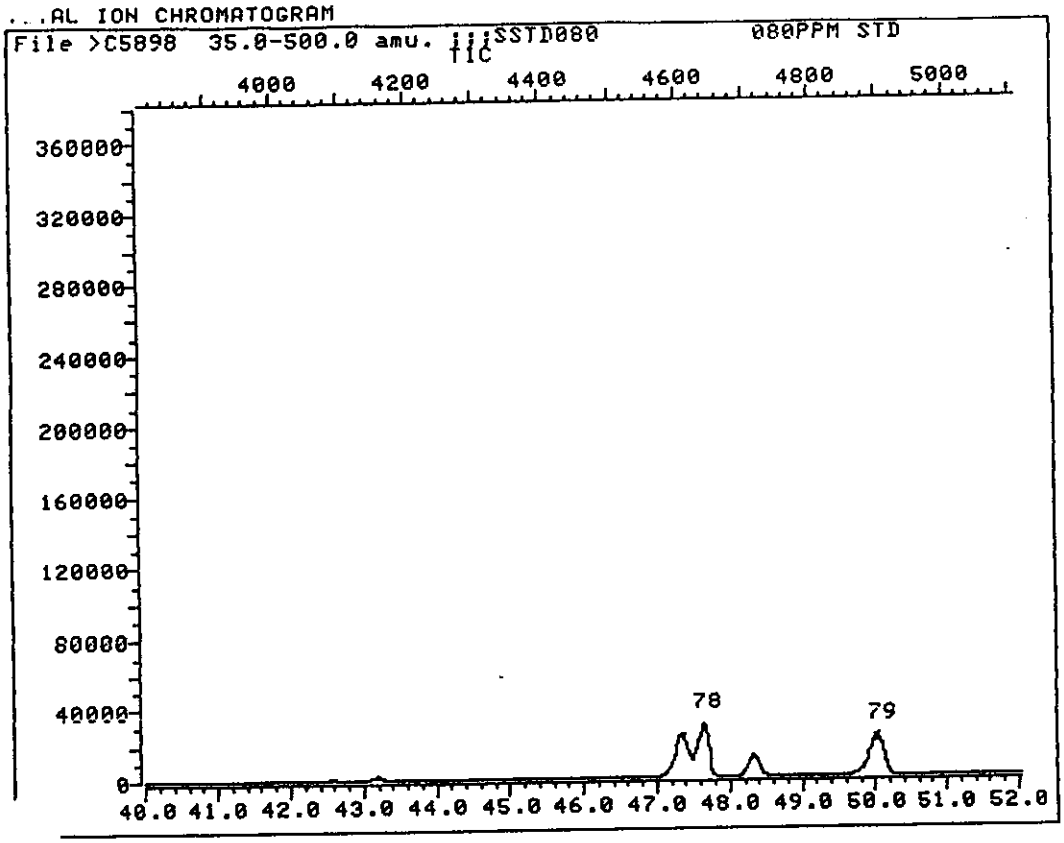


Data File: >C5898::C4 Quant Output File: ^C5898::QT
Name: ;;;SSTD080
Misc: 080PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 16:56
Injected at: 930128 16:02

TIC page 4 of 4

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930128 17:58
Output File: ^C5899::QT Injected at: 930128 17:04
Data File: >C5899::C4 Dilution Factor: 1.00000
Name: ;;;SSTD120
Misc: 120PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 3

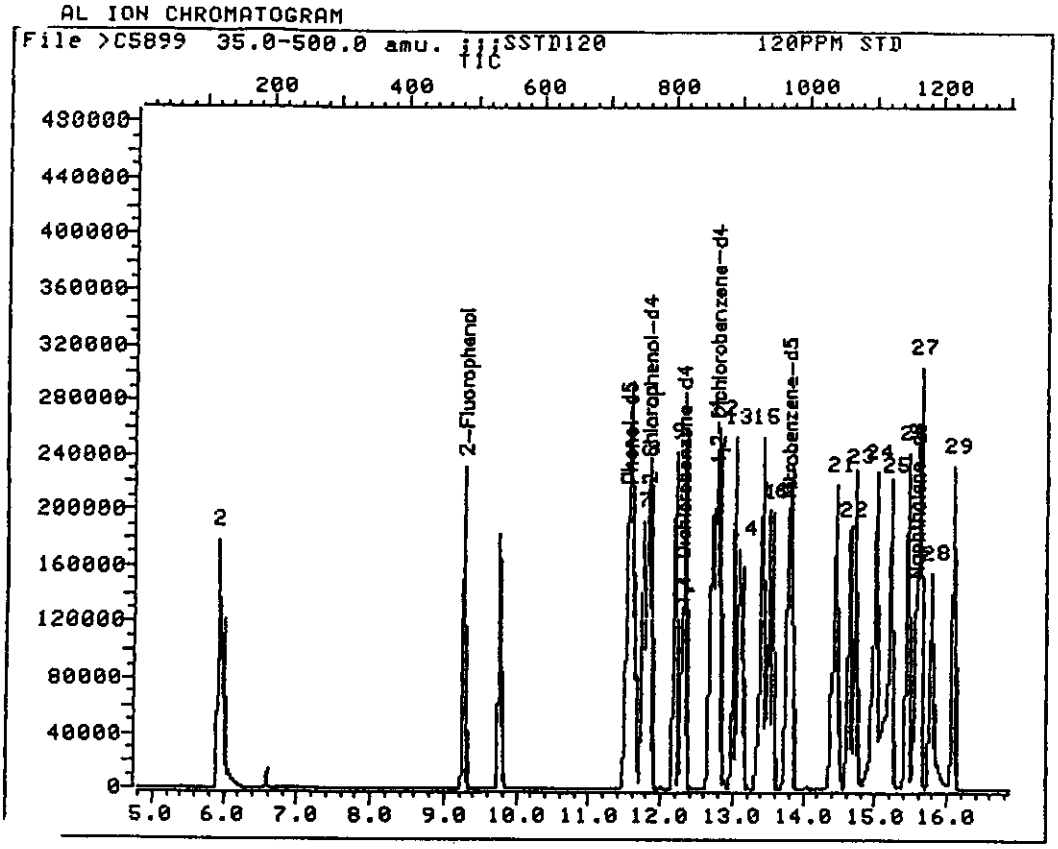
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.29	151.8	37337	40.00	ug	96
2)	Pyridine	5.92	52.0	123769	123.58	ug	94
3)	2-Chlorophenol-d4	11.81	132.0	126627	119.22	ug	95
4)	2-Fluorophenol	9.27	111.8	124114	123.93	ug	87
5)	Phenol-d5	11.53	98.8	167142	120.41	ug	72
6)	Phenol	11.57	93.9	159150	107.69	ug	66
7)	bis(2-Chloroethyl)ether	11.76	92.7	149677	118.90	ug	87
8)	2-Chlorophenol	11.85	127.8	125830	105.54	ug	87
9)	1,3-Dichlorobenzene	12.19	145.8	138692	105.23	ug	90
10)	1,4-Dichlorobenzene	12.32	145.7	137366	114.80	ug	95
11	1,2-Dichlorobenzene-d4	12.76	152.0	89581	101.27	ug	91
12.	1,2-Dichlorobenzene	12.80	145.7	126016	98.06	ug	93
13)	2-Methylphenol	13.01	107.8	119743	118.22	ug	92
14).	2,2'-oxybis(1-Chloropropane)	13.09	44.8	280318	618.60	ug	87
15)	4-Methylphenol	13.40	107.8	130925	123.03	ug	94
16)	N-Nitroso-di-n-propylamine	13.50	69.9	146538	139.87	ug	91
17)	Hexachloroethane	13.57	116.7	62379	106.56	ug	94
18)	*Naphthalene-d8	15.55	135.9	149213	40.00	ug	99
19)	Nitrobenzene-d5	13.77	81.8	188553	130.85	ug	79
20)	Nitrobenzene	13.83	76.8	176922	127.18	ug	85
21)	Isophorone	14.45	81.8	367137	126.14	ug	94
22)	2-Nitrophenol	14.62	138.9	86387	114.15	ug	97
23)	2,4-Dimethylphenol	14.73	106.8	162036	119.49	ug	84
24)	bis(2-Chloroethoxy)methane	14.99	92.8	207601	126.60	ug	91
25)	2,4-Dichlorophenol	15.22	161.7	126820	108.12	ug	91
26)	1,2,4-Trichlorobenzene	15.45	179.7	128626	116.04	ug	92
27)	Naphthalene	15.61	127.9	383233	119.05	ug	89
28)	4-Chloroaniline	15.78	126.8	143156	993.15	ug	97
29)	Hexachlorobutadiene	16.07	224.6	76162	107.04	ug	93
30)	4-Chloro-3-methylphenol	17.03	106.9	162936	118.27	ug	92
31)	2-Methylnaphthalene	17.41	141.9	275371	107.70	ug	98
32)	*Acenaphthene-d10	20.22	163.9	88850	40.00	ug	89
33)	Hexachlorocyclopentadiene	17.99	236.6	99844	105.12	ug	93
34)	2,4,6-Trichlorophenol	18.22	195.8	109456	120.24	ug	98
35)	2,4,5-Trichlorophenol	18.30	195.8	109006	117.17	ug	90
36)	2-Fluorobiphenyl	18.43	171.8	306403	111.79	ug	96
37	2-Chloronaphthalene	18.69	161.8	267041	106.09	ug	85
38)	2-Nitroaniline	19.05	64.9	138336	170.46	ug	89
39)	Dimethylphthalate	19.63	162.8	394275	121.09	ug	91
40)	Acenaphthylene	19.81	152.0	369787	98.20	ug	92
41)	2,6-Dinitrotoluene	19.80	164.8	74040	108.38	ug	67
42)	3-Nitroaniline	20.11	137.8	30903	1221.42	ug	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.43	183.8	51095	173.01	ug	96
45)	4-Nitrophenol	20.57	108.8	55390	170.31	ug	67
46)	Dibenzofuran	20.73	167.8	382746	104.16	ug	94
47)	2,4-Dinitrotoluene	20.84	164.8	142650	152.81	ug	91
48)	Diethylphthalate	21.49	148.8	399966	115.98	ug	89
49)	4-Chlorophenyl-phenylether	21.63	203.9	115665	84.98	ug	87
50)	Fluorene	21.65	165.9	235462	93.64	ug	97
51)	4-Nitroaniline	21.81	137.9	69261M	341.88	ug	86
52)	2,4,6-Tribromophenol	22.32	329.6	84576	134.87	ug	93
53)	*Phenanthrene-d10	24.12	187.9	188340	40.00	ug	96
54)	4,6-Dinitro-2-methylphenol	21.92	197.9	73751	147.83	ug	93
55)	N-Nitrosodiphenylamine (1)	21.97	168.9	191375	117.95	ug	96
56)	4-Bromophenyl-phenylether	22.91	247.9	104166	96.38	ug	87
57)	Hexachlorobenzene	23.31	283.6	136153	90.97	ug	91
58)	Pentachlorophenol	23.77	265.6	99051	139.95	ug	90
59)	Phenanthrene	24.19	177.9	458256	99.11	ug	94
60)	Carbazole	24.70	166.8	224833	172.68	ug	96
61)	Anthracene	24.31	177.9	432395	94.02	ug	98
62)	Di-n-butylphthalate	25.75	148.8	593250	98.84	ug	97
63)	Fluoranthene	27.36	201.9	476920	100.65	ug	94
64)	*Chrysene-d12	31.52	240.0	128631	40.00	ug	89
65)	Pyrene	27.96	201.9	474130	103.68	ug	96
66	Terphenyl-d14	28.36	244.0	345734	104.93	ug	97
67)	Butylbenzylphthalate	29.74	148.8	247779	116.40	ug	94
68)	3,3'-Dichlorobenzidine	31.38	251.9	74408	221.46	ug	73
69)	Benzo(a)anthracene	31.46	228.0	394870	121.46	ug	97
70)	Chrysene	31.61	228.0	277574	88.32	ug	97
71)	bis(2-Ethylhexyl)phthalate	31.64	148.8	272928	88.67	ug	90
72)	*Perylene-d12	38.56	264.0	92510	40.00	ug	98
73)	Di-n-octylphthalate	34.26	148.9	577252	144.56	ug	92
74)	Benzo(b)fluoranthene	36.33	252.0	361121M	128.09	ug	92
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.48~~	~~252.0~~	~~153323~~	~~54.30~~	~~ug~~	~~95~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.28~~	~~252.0~~	~~152569^~~	~~54.55~~	~~ug~~	~~93~~
75)	Benzo(k)fluoranthene	36.48	252.0	322367M	115.26	ug	95
76)	Benzo(a)pyrene	38.26	252.0	298776M	122.77	ug	96
77)	Indeno(1,2,3-cd)pyrene	47.39	276.0	184331M	101.87	ug	85
78)	Dibenz(a,h)anthracene	47.65	278.0	185596	99.44	ug	90
79)	Benzo(g,h,i)perylene	50.05	276.0	170742M	83.25	ug	84

GMC 1/29/93

* Compound is ISTD



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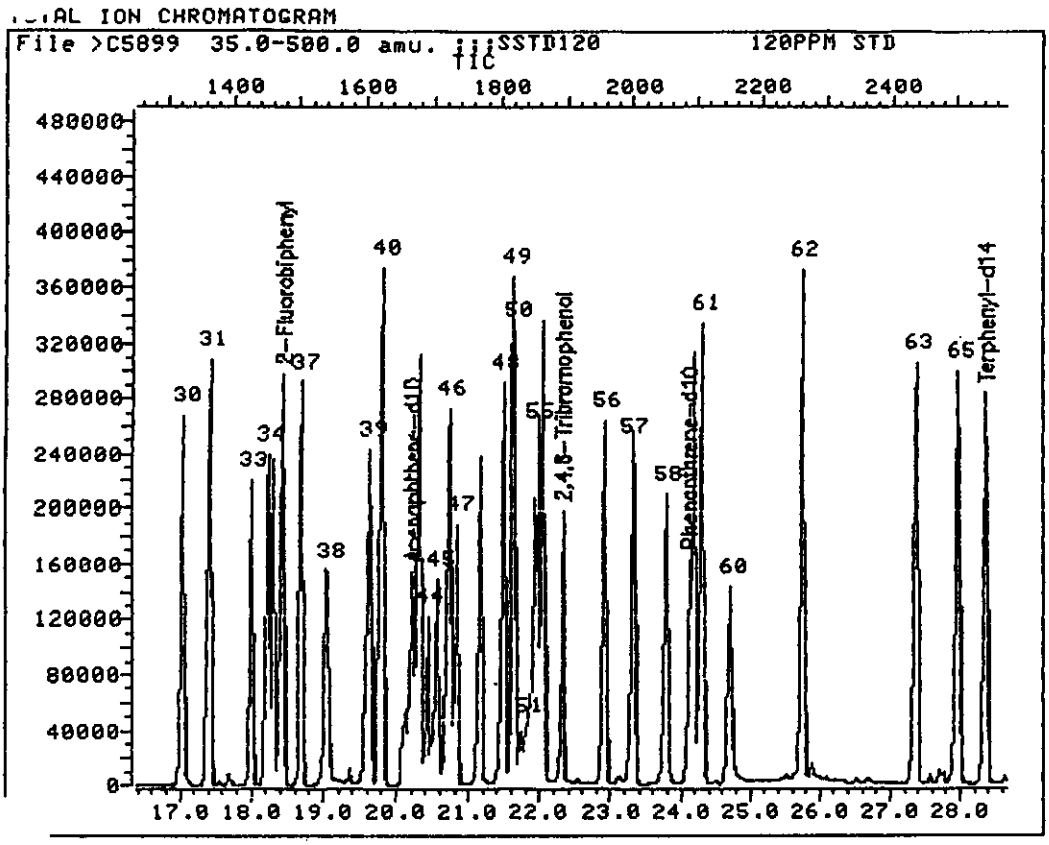
Name: ;;;SSTD120
Misc: 120PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 17:58
Injected at: 930128 17:04

TIC page 1 of 4



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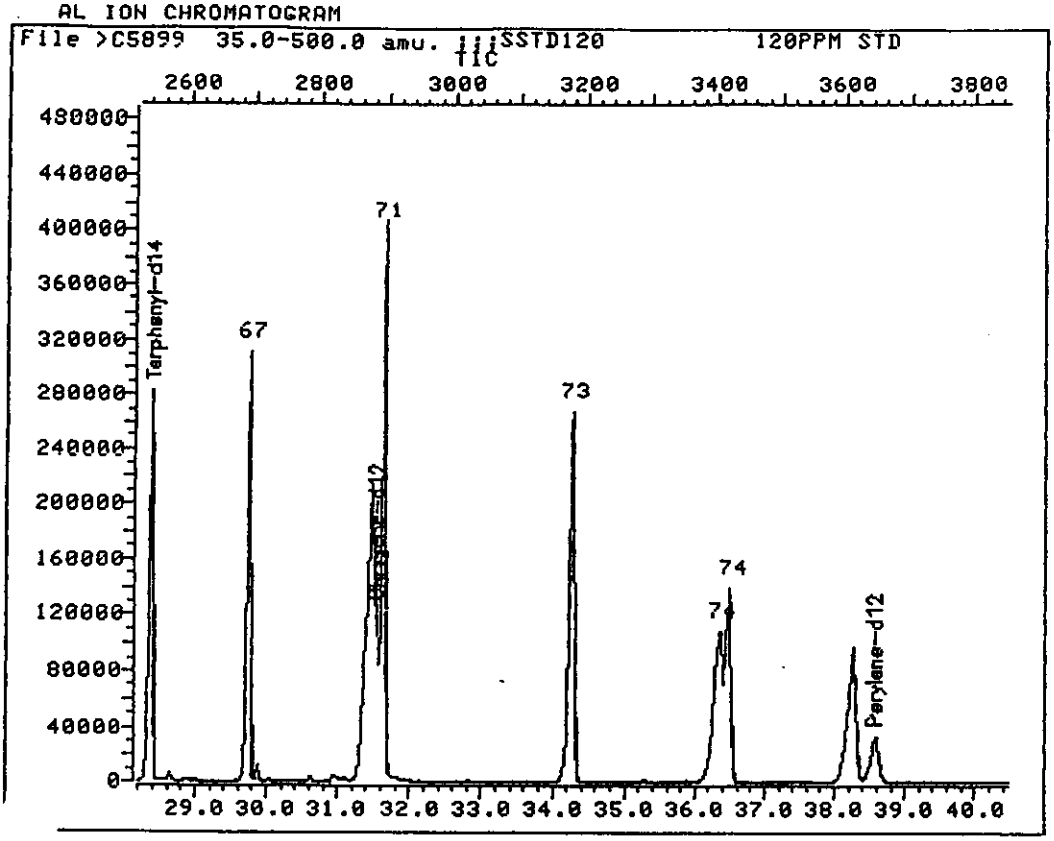
Misc: 120PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 17:58
Injected at: 930128 17:04

TIC page 2 of 4

AL ION CHROMATOGRAM



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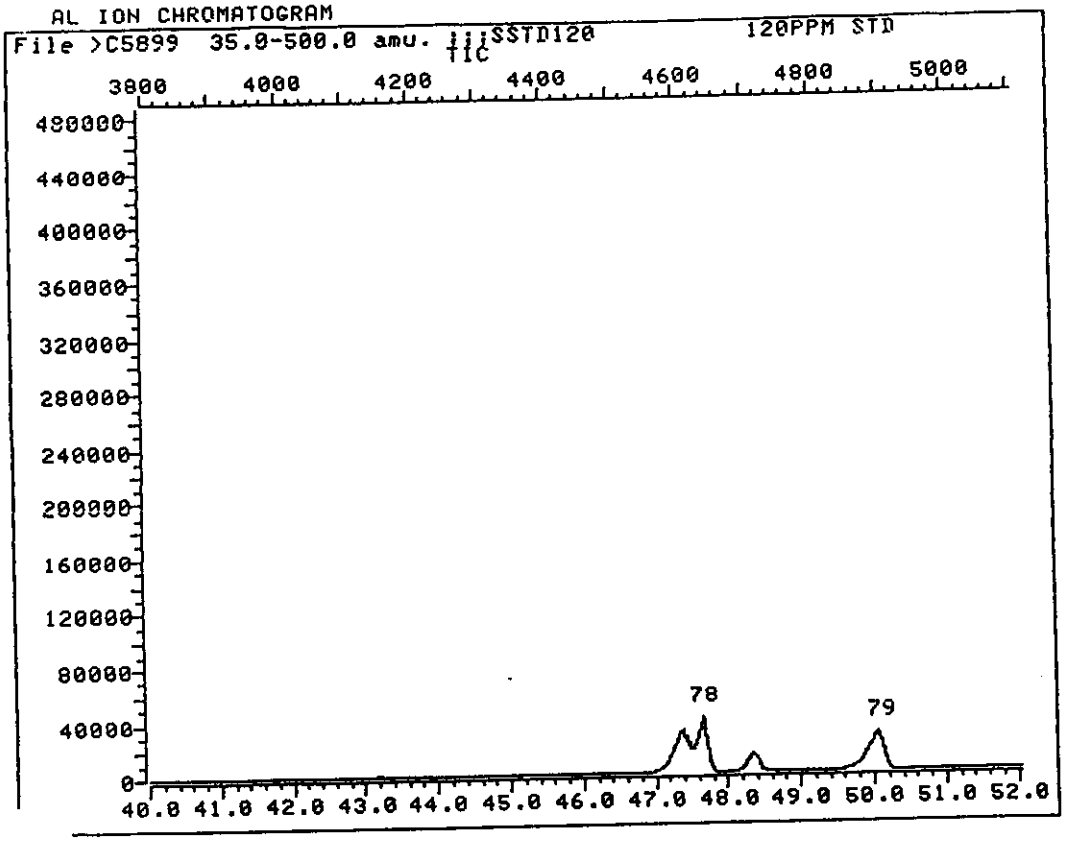
Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 17:58
Injected at: 930128 17:04

TIC page 3 of 4



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Misc: 120PPM STD HP5970C;;;LLW;1;;;C0950 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930128 17:58
Injected at: 930128 17:04

TIC page 4 of 4

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

0 0516

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date: 01/29/93 Time: 0928

Lab File ID: C5900.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 -- 1704

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.531	1.694	0.800	-10.6	25.0
bis(2-Chloroethyl)ether	1.383	1.569	0.700	-13.4	25.0
2-Chlorophenol	1.224	1.298	0.800	-6.1	25.0
1,3-Dichlorobenzene	1.312	1.386	0.600	-5.6	25.0
1,4-Dichlorobenzene	1.311	1.451	0.500	-10.7	25.0
1,2-Dichlorobenzene	1.238	1.378	0.400	-11.3	25.0
2-Methylphenol	1.078	1.127	0.700	-4.5	25.0
2,2'-oxybis(1-Chloropropane)	2.319	2.453		-5.8	
4-Methylphenol	1.163	1.260	0.600	-8.3	25.0
N-Nitroso-di-n-propylamine	1.269	1.232	0.500	2.9	25.0
Hexachloroethane	0.580	0.615	0.300	-6.1	25.0
Nitrobenzene	0.403	0.410	0.200	-1.9	25.0
Isophorone	0.779	0.803	0.400	-3.1	25.0
2-Nitrophenol	0.193	0.217	0.100	-12.5	25.0
2,4-Dimethylphenol	0.361	0.386	0.200	-6.8	25.0
bis(2-Chloroethoxy)methane	0.477	0.453	0.300	5.1	25.0
2,4-Dichlorophenol	0.293	0.314	0.200	-7.3	25.0
1,2,4-Trichlorobenzene	0.319	0.308	0.200	3.6	25.0
Naphthalene	0.940	0.995	0.700	-5.8	25.0
4-Chloroaniline	0.316	0.215		31.9	
Hexachlorobutadiene	0.182	0.195		-6.9	
4-Chloro-3-methylphenol	0.371	0.378	0.200	-2.0	25.0
2-Methylnaphthalene	0.688	0.705	0.400	-2.4	25.0
Hexachlorocyclopentadiene	0.365	0.346		5.2	
2,4,6-Trichlorophenol	0.409	0.370	0.200	9.7	25.0
2,4,5-Trichlorophenol	0.397	0.409	0.200	-3.0	25.0
2-Chloronaphthalene	1.027	0.968	0.800	5.8	25.0
2-Nitroaniline	0.464	0.385		17.0	
Dimethylphthalate	1.434	1.415		1.4	
Acenaphthylene	1.489	1.637	1.300	-9.9	25.0
2,6-Dinitrotoluene	0.280	0.303	0.200	-8.2	25.0
3-Nitroaniline	0.109	0.067		38.2	
Acenaphthene	1.036	1.042	0.800	-0.5	25.0
2,4-Dinitrophenol	0.166	0.157		5.6	
4-Nitrophenol	0.175	0.164		6.2	
Dibenzofuran	1.437	1.418	0.800	1.3	25.0
2,4-Dinitrotoluene	0.460	0.477	0.200	-3.7	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

0517

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

dmc 2/12/93

Instrument ID: HP5970C Calibration Date: 01/29/93 Time: 0928

Lab File ID: C5900.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 .. 1704

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.478	1.465		0.9	
4-Chlorophenyl-phenylether	0.494	0.532	0.400	-7.6	25.0
Fluorene	0.966	1.016	0.900	-5.1	25.0
4-Nitroaniline	0.194	0.179		8.0	
4,6-Dinitro-2-methylphenol	0.112	0.142		-26.7	
N-Nitrosodiphenylamine (1)	0.370	0.402		-8.8	
4-Bromophenyl-phenylether	0.208	0.234	0.100	-12.5	25.0
Hexachlorobenzene	0.283	0.298	0.100	-5.5	25.0
Pentachlorophenol	0.173	0.187	0.050	-8.0	25.0
Phenanthrene	0.900	0.972	0.700	-8.0	25.0
Anthracene	0.902	1.009	0.700	-11.8	25.0
Carbazole	0.478	0.525		-9.8	
Di-n-butylphthalate	1.199	1.407		-17.4	
Fluoranthene	0.932	1.106	0.600	-18.6	25.0
Pyrene	1.331	1.329	0.600	0.1	25.0
Butylbenzylphthalate	0.636	0.696		-9.4	
3,3'-Dichlorobenzidine	0.192	0.165		14.0	
Benzo(a)anthracene	1.013	1.146	0.800	-13.1	25.0
Chrysene	0.825	0.938	0.700	-13.8	25.0
bis(2-Ethylhexyl)phthalate	0.739	0.892		-20.7	
Di-n-octylphthalate	1.873	1.881		-0.4	
Benzo(b)fluoranthene	1.295	1.160	0.700	10.4	25.0
Benzo(k)fluoranthene	1.141	1.158	0.700	-1.5	25.0
Benzo(a)pyrene	1.082	1.088	0.700	-0.5	25.0
Indeno(1,2,3-cd)pyrene	0.696	0.614	0.500	11.8	25.0
Dibenz(a,h)anthracene	0.693	0.616	0.400	11.1	25.0
Benzo(g,h,i)perylene	0.683	0.572	0.500	16.4	25.0
Nitrobenzene-d5	0.414	0.426	0.200	-2.8	25.0
2-Fluorobiphenyl	1.165	1.193	0.700	-2.4	25.0
Terphenyl-d14	1.045	1.015	0.500	2.9	25.0
Phenol-d5	1.520	1.629	0.800	-7.2	25.0
2-Fluorophenol	1.128	1.270	0.600	-12.6	25.0
2,4,6-Tribromophenol	0.301	0.275		8.7	
2-Chlorophenol-d4	1.207	1.255	0.800	-4.0	25.0
1,2-Dichlorobenzene-d4	0.844	0.933	0.400	-10.5	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSC
Output File: ^C5900::QT
Data File: >C5900::C2
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0951

Quant Rev: 6
Quant Time: 930129 10:22
Injected at: 930129 09:28
Dilution Factor: 1.00000

BTL#98

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

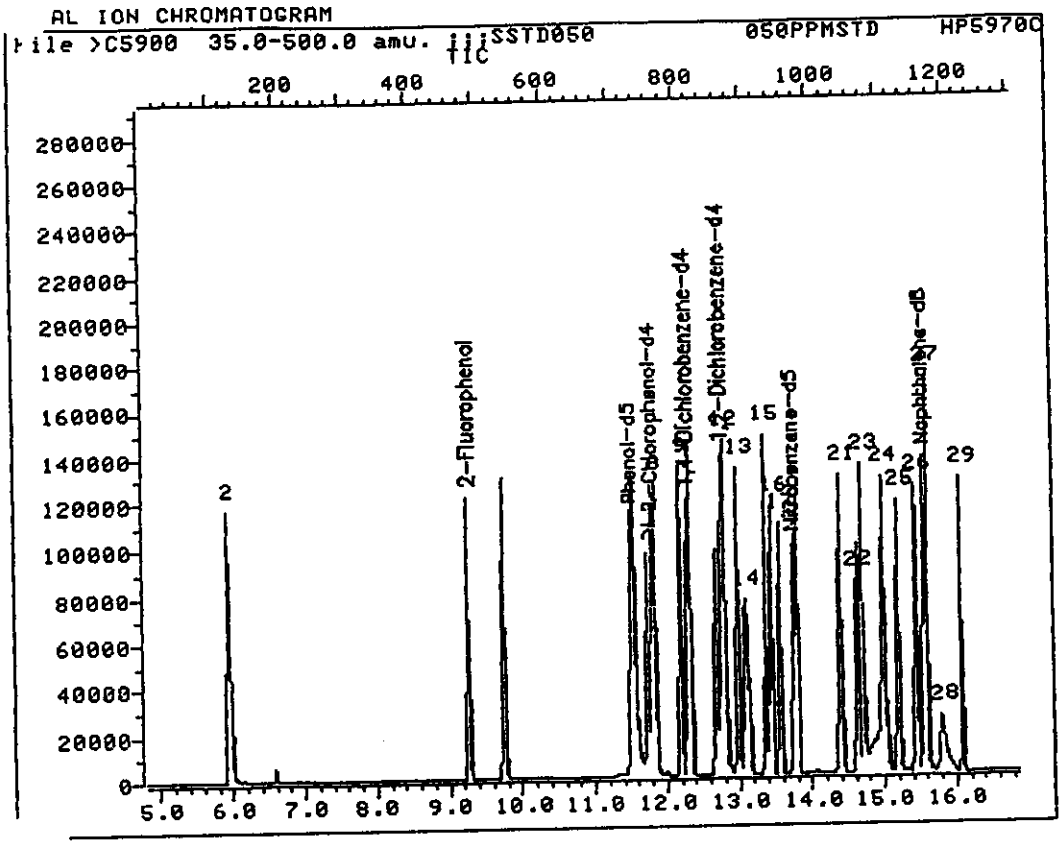
JMC 1/29/93

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.28	151.8	36871	40.00	ug	92
2)	Pyridine	5.93	52.0	65002	65.72	ug	97
3)	2-Chlorophenol-d4	11.79	132.0	57844	55.15	ug	97
4)	2-Fluorophenol	9.25	111.8	58550	59.20	ug	91
5)	Phenol-d5	11.49	98.8	75086	54.78	ug	82
6)	Phenol	11.53	93.9	78064	53.49	ug	89
7)	bis(2-Chloroethyl)ether	11.73	92.7	72299	58.16	ug	95
8)	2-Chlorophenol	11.84	127.8	59842	50.83	ug	86
9)	1,3-Dichlorobenzene	12.19	145.8	63864	49.07	ug	90
10)	1,4-Dichlorobenzene	12.32	145.7	66892	56.61	ug	88
11)	1,2-Dichlorobenzene-d4	12.75	152.0	42978	49.20	ug	96
12)	1,2-Dichlorobenzene	12.79	145.7	63523	50.06	ug	97
13)	2-Methylphenol	12.99	107.8	51939	51.92	ug	94
14)	2,2'-oxybis(1-Chloropropane)	13.09	44.8	113049M	252.63	ug	
15)	4-Methylphenol	13.35	107.8	58053	55.24	ug	97
16)	N-Nitroso-di-n-propylamine	13.45	69.9	56762	54.86	ug	85
17)	Hexachloroethane	13.56	116.7	28354	49.05	ug	81
18)	*Naphthalene-d8	15.55	135.9	140387	40.00	ug	98
19)	Nitrobenzene-d5	13.74	81.8	74687	55.09	ug	90
20)	Nitrobenzene	13.80	76.8	71992	55.00	ug	90
21)	Isophorone	14.40	81.8	140949	51.47	ug	97
22)	2-Nitrophenol	14.60	138.9	38091	53.50	ug	85
23)	2,4-Dimethylphenol	14.70	106.8	67668	53.04	ug	94
24)	bis(2-Chloroethoxy)methane	14.97	92.8	79464	51.51	ug	80
25)	2,4-Dichlorophenol	15.20	161.7	55125	49.95	ug	88
26)	1,2,4-Trichlorobenzene	15.44	179.7	53993	51.77	ug	89
27)	Naphthalene	15.59	127.9	174651	57.66	ug	87
28)	4-Chloroaniline	15.80	126.8	37798	278.71	ug	93
29)	Hexachlorobutadiene	16.07	224.6	34147	51.01	ug	97
30)	4-Chloro-3-methylphenol	17.02	106.9	66413	51.24	ug	93
31)	2-Methylnaphthalene	17.41	141.9	123662	51.41	ug	94
32)	*Acenaphthene-d10	20.20	163.9	89315	40.00	ug	96
33)	Hexachlorocyclopentadiene	18.00	236.6	38654	40.48	ug	82
34)	2,4,6-Trichlorophenol	18.20	195.8	41258	45.09	ug	77
35)	2,4,5-Trichlorophenol	18.29	195.8	45704	48.87	ug	84
36)	2-Fluorobiphenyl	18.42	171.8	133195	48.34	ug	95
37)	2-Chloronaphthalene	18.69	161.8	108029	42.69	ug	72
38)	2-Nitroaniline	19.05	64.9	42995	52.70	ug	96
39)	Dimethylphthalate	19.60	162.8	157934	48.25	ug	92
40)	Acenaphthylene	19.81	152.0	182773	48.28	ug	92
41)	2,6-Dinitrotoluene	19.78	164.8	33842	49.28	ug	87
42)	3-Nitroaniline	20.15	137.8	7522	295.75	ug	91
				116317	46.41	ug	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.40	183.8	17490	58.91	ug	97
45)	4-Nitrophenol	20.53	108.8	18346	56.12	ug	97
46)	Dibenzofuran	20.71	167.8	158274	42.85	ug	97
47)	2,4-Dinitrotoluene	20.81	164.8	53291	56.79	ug	79
48)	Diethylphthalate	21.47	148.8	163515	47.17	ug	84
49)	4-Chlorophenyl-phenylether	21.62	203.9	59359	43.38	ug	87
50)	Fluorene	21.64	165.9	113415	44.87	ug	94
51)	4-Nitroaniline	21.78	137.9	19933	97.88	ug	89
52)	2,4,6-Tribromophenol	22.30	329.6	30647	48.62	ug	84
53)	*Phenanthrene-d10	24.10	187.9	153800	40.00	ug	97
54)	4,6-Dinitro-2-methylphenol	21.88	197.9	27313	67.04	ug	89
55)	N-Nitrosodiphenylamine (1)	21.94	168.9	77291	58.33	ug	91
56)	4-Bromophenyl-phenylether	22.91	247.9	45064	51.06	ug	89
57)	Hexachlorobenzene	23.30	283.6	57295	46.88	ug	85
58)	Pentachlorophenol	23.76	265.6	35966	62.23	ug	89
59)	Phenanthrene	24.17	177.9	186909	49.50	ug	93
60)	Carbazole	24.71	166.8	100903	94.90	ug	98
61)	Anthracene	24.29	177.9	193967	51.65	ug	96
62)	Di-n-butylphthalate	25.75	148.8	270560	55.20	ug	98
63)	Fluoranthene	27.34	201.9	212586	54.94	ug	97
64)	*Chrysene-d12	31.52	240.0	131326	40.00	ug	97
65)	Pyrene	27.96	201.9	218130	46.72	ug	96
66)	Terphenyl-d14	28.35	244.0	166584	49.52	ug	93
67)	Butylbenzylphthalate	29.74	148.8	114213	52.55	ug	86
68)	3,3'-Dichlorobenzidine	31.36	251.9	27098	79.00	ug	97
69)	Benzo(a)anthracene	31.44	228.0	188075	56.67	ug	99
70)	Chrysene	31.61	228.0	154009	48.00	ug	94
71)	bis(2-Ethylhexyl)phthalate	31.64	148.8	146492	46.61	ug	81
72)	*Perylene-d12	38.61	264.0	104503M	40.00	ug	95
73)	Di-n-octylphthalate	34.25	148.9	245667	54.46	ug	90
74)	Benzo(b)fluoranthene	36.31	252.0	151533M	47.58	ug	98
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.42~~	~~252.0~~	~~58297~~	~~18.30~~	~~ug~~	~~89~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.27~~	~~252.0~~	~~53829~~	~~17.04~~	~~ug~~	~~95~~
75)	Benzo(k)fluoranthene	36.44	252.0	151204M	47.86	ug	82
76)	Benzo(a)pyrene	38.25	252.0	142085	51.69	ug	95
77)	Indeno(1,2,3-cd)pyrene	47.37	276.0	80166M	39.22	ug	91
78)	Dibenz(a,h)anthracene	47.65	278.0	80407	38.14	ug	87
79)	Benzo(g,h,i)perylene	50.02	276.0	74662	32.23	ug	82

JMC 1/29/93

* Compound is ISTD



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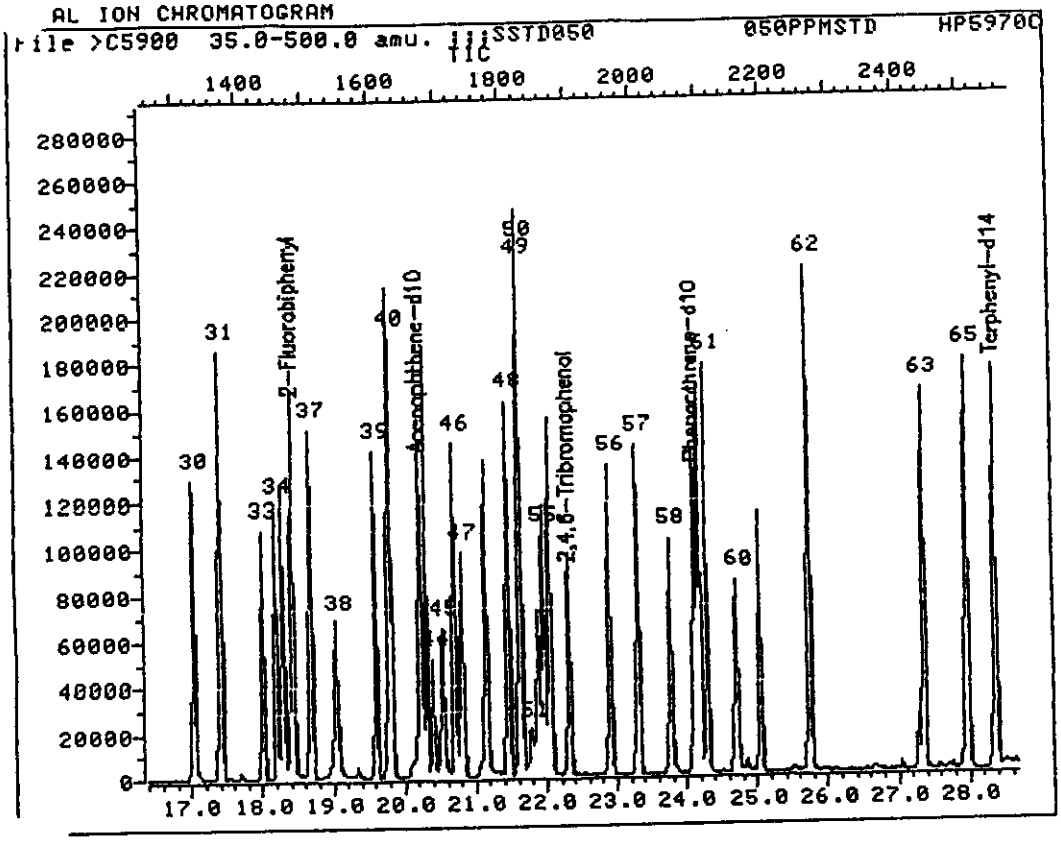
Misc: 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930129 10:22
Injected at: 930129 09:28

TIC page 1 of 4



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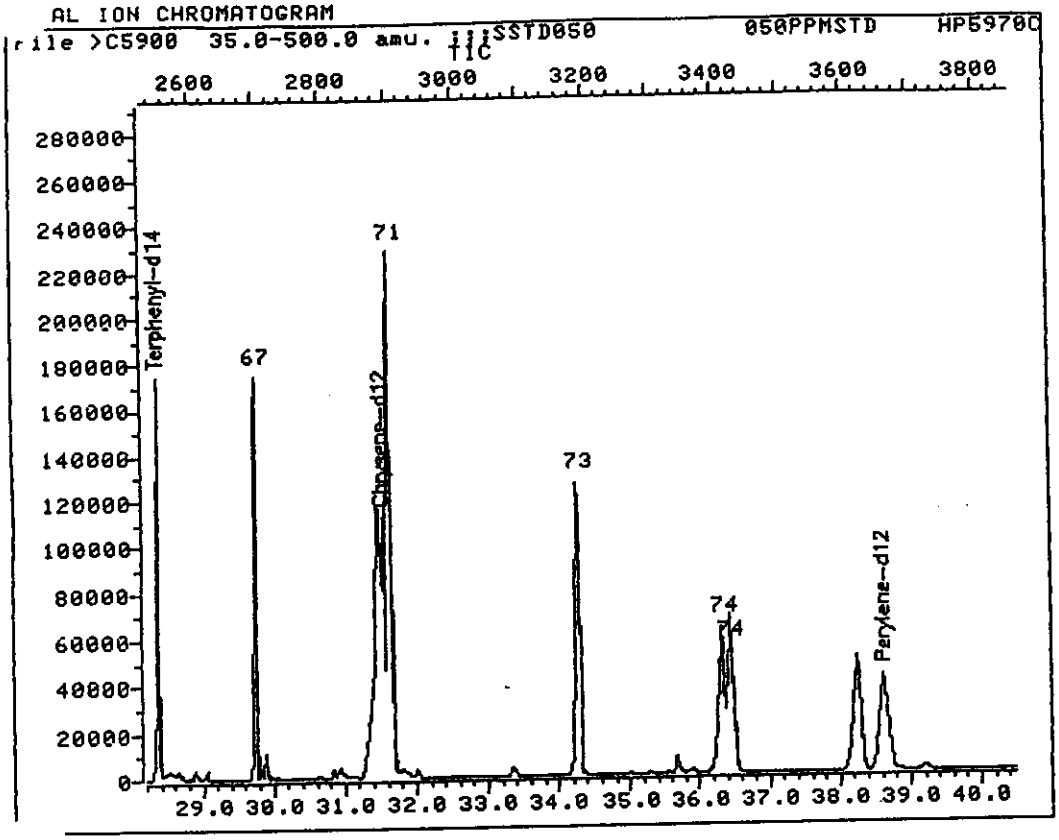
Misc: 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930129 10:22
Injected at: 930129 09:28

TIC page 2 of 4

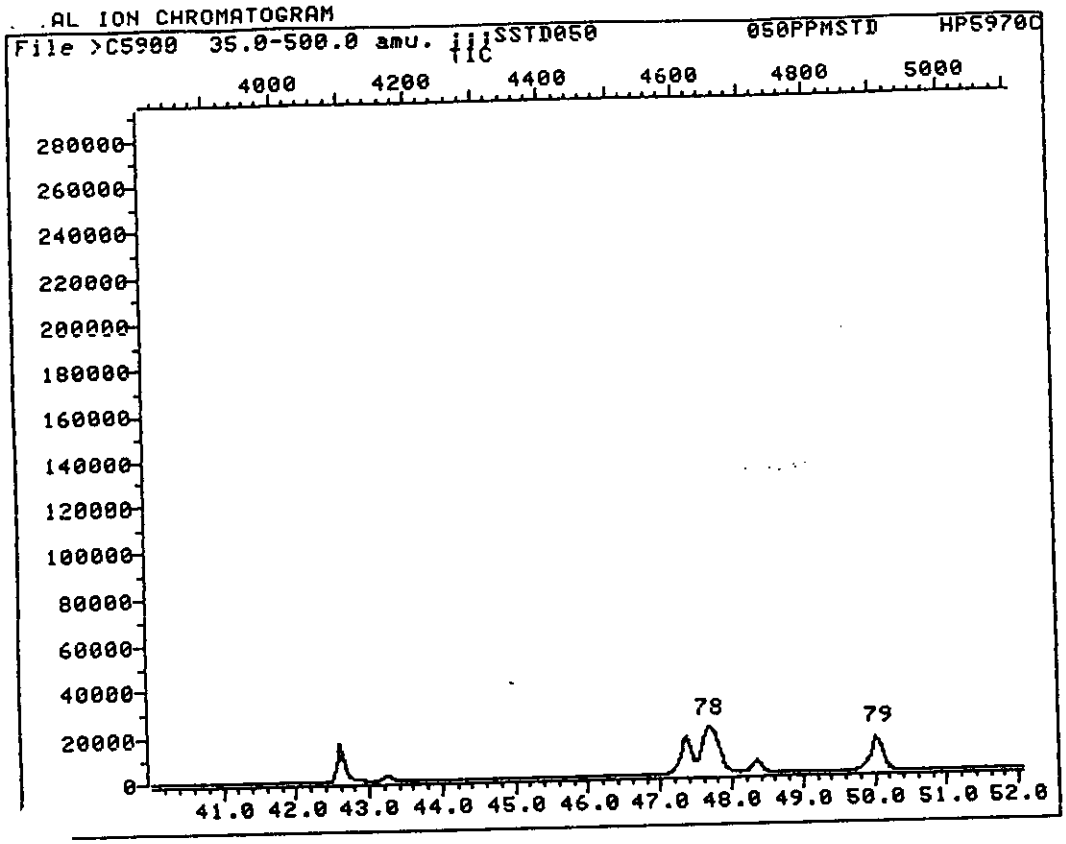


Data File: >C5900::C2 Quant Output File: ^C5900::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930129 10:22
Injected at: 930129 09:28

TIC page 3 of 4



Data File: >C5900::C2 Quant Output File: ^C5900::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930126 13:54

Operator ID: MSC
Quant Time: 930129 10:22
Injected at: 930129 09:28

TIC page 4 of 4

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date: 02/01/93 Time: 1216

Lab File ID: C5912.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 .. 1704

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.531	1.612	0.800	-5.3	25.0
bis(2-Chloroethyl)ether	1.383	1.482	0.700	-7.2	25.0
2-Chlorophenol	1.224	1.365	0.800	-11.5	25.0
1,3-Dichlorobenzene	1.312	1.408	0.600	-7.3	25.0
1,4-Dichlorobenzene	1.311	1.449	0.500	-10.5	25.0
1,2-Dichlorobenzene	1.238	1.327	0.400	-7.2	25.0
2-Methylphenol	1.078	1.132	0.700	-5.0	25.0
2,2'-oxybis(1-Chloropropane)	2.319	2.006		13.5	
4-Methylphenol	1.163	1.213	0.600	-4.3	25.0
N-Nitroso-di-n-propylamine	1.269	1.376	0.500	-8.5	25.0
Hexachloroethane	0.580	0.663	0.300	-14.3	25.0
Nitrobenzene	0.403	0.423	0.200	-5.0	25.0
Isophorone	0.779	0.812	0.400	-4.2	25.0
2-Nitrophenol	0.193	0.217	0.100	-12.6	25.0
2,4-Dimethylphenol	0.361	0.376	0.200	-4.2	25.0
bis(2-Chloroethoxy)methane	0.477	0.459	0.300	3.8	25.0
2,4-Dichlorophenol	0.293	0.305	0.200	-4.2	25.0
1,2,4-Trichlorobenzene	0.319	0.339	0.200	-6.2	25.0
Naphthalene	0.940	0.928	0.700	1.3	25.0
4-Chloroaniline	0.316	0.052		83.4	
Hexachlorobutadiene	0.182	0.186		-2.1	
4-Chloro-3-methylphenol	0.371	0.375	0.200	-1.1	25.0
2-Methylnaphthalene	0.688	0.706	0.400	-2.6	25.0
Hexachlorocyclopentadiene	0.365	0.398		-8.9	
2,4,6-Trichlorophenol	0.409	0.426	0.200	-4.1	25.0
2,4,5-Trichlorophenol	0.397	0.487	0.200	-22.6	25.0
2-Chloronaphthalene	1.027	1.081	0.800	-5.2	25.0
2-Nitroaniline	0.464	0.449		3.3	
Dimethylphthalate	1.434	1.466		-2.2	
Acenaphthylene	1.489	1.613	1.300	-8.3	25.0
2,6-Dinitrotoluene	0.280	0.317	0.200	-13.1	25.0
3-Nitroaniline	0.109	0.027		74.8	
Acenaphthene	1.036	1.225	0.800	-18.2	25.0
2,4-Dinitrophenol	0.166	0.162		2.4	
4-Nitrophenol	0.175	0.182		-4.0	
Dibenzofuran	1.437	1.626	0.800	-13.2	25.0
2,4-Dinitrotoluene	0.460	0.526	0.200	-14.3	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date: 02/01/93 Time: 1216

Lab File ID: C5912.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 .. 1704

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Diethylphthalate	1.478	1.665		-12.7		
4-Chlorophenyl-phenylether	0.494	0.576	0.400	-16.6	25.0	
Fluorene	0.966	1.141	0.900	-18.1	25.0	
4-Nitroaniline	0.194	0.127		34.8		
4,6-Dinitro-2-methylphenol	0.112	0.137		-21.8		
N-Nitrosodiphenylamine (1)	0.370	0.342		7.4		
4-Bromophenyl-phenylether	0.208	0.244	0.100	-17.2	25.0	
Hexachlorobenzene	0.283	0.328	0.100	-16.2	25.0	
Pentachlorophenol	0.173	0.189	0.050	-9.2	25.0	
Phenanthrene	0.900	1.015	0.700	-12.8	25.0	
Anthracene	0.902	1.019	0.700	-12.9	25.0	
Carbazole	0.478	0.300		37.2		
Di-n-butylphthalate	1.199	1.431		-19.4		
Fluoranthene	0.932	1.088	0.600	-16.7	25.0	
Pyrene	1.331	1.417	0.600	-6.5	25.0	
Butylbenzylphthalate	0.636	0.800		-25.7		
3,3'-Dichlorobenzidine	0.192	0.181		5.8		
Benzo(a)anthracene	1.013	1.229	0.800	-21.3	25.0	
Chrysene	0.825	1.059	0.700	-28.5	25.0	<-
bis(2-Ethylhexyl)phthalate	0.739	1.059		-43.3		
Di-n-octylphthalate	1.873	1.794		4.3		
Benzo(b)fluoranthene	1.295	1.194	0.700	7.8	25.0	
Benzo(k)fluoranthene	1.141	1.138	0.700	0.2	25.0	
Benzo(a)pyrene	1.082	1.008	0.700	6.9	25.0	
Indeno(1,2,3-cd)pyrene	0.696	0.828	0.500	-19.1	25.0	
Dibenz(a,h)anthracene	0.693	0.848	0.400	-22.5	25.0	
Benzo(g,h,i)perylene	0.683	0.854	0.500	-25.0	25.0	<-
Nitrobenzene-d5	0.414	0.423	0.200	-2.1	25.0	
2-Fluorobiphenyl	1.165	1.213	0.700	-4.1	25.0	
Terphenyl-d14	1.045	1.099	0.500	-5.2	25.0	
Phenol-d5	1.520	1.611	0.800	-6.0	25.0	
2-Fluorophenol	1.128	1.114	0.600	1.3	25.0	
2,4,6-Tribromophenol	0.301	0.381		-26.8		
2-Chlorophenol-d4	1.207	1.275	0.800	-5.7	25.0	
1,2-Dichlorobenzene-d4	0.844	0.905	0.400	-7.2	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSC
Output File: ^C5912::QT
Data File: >C5912::C5
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0952

Quant Rev: 6 Quant Time: 930201 13:11
Injected at: 930201 12:16
Dilution Factor: 1.00000

BTL#98

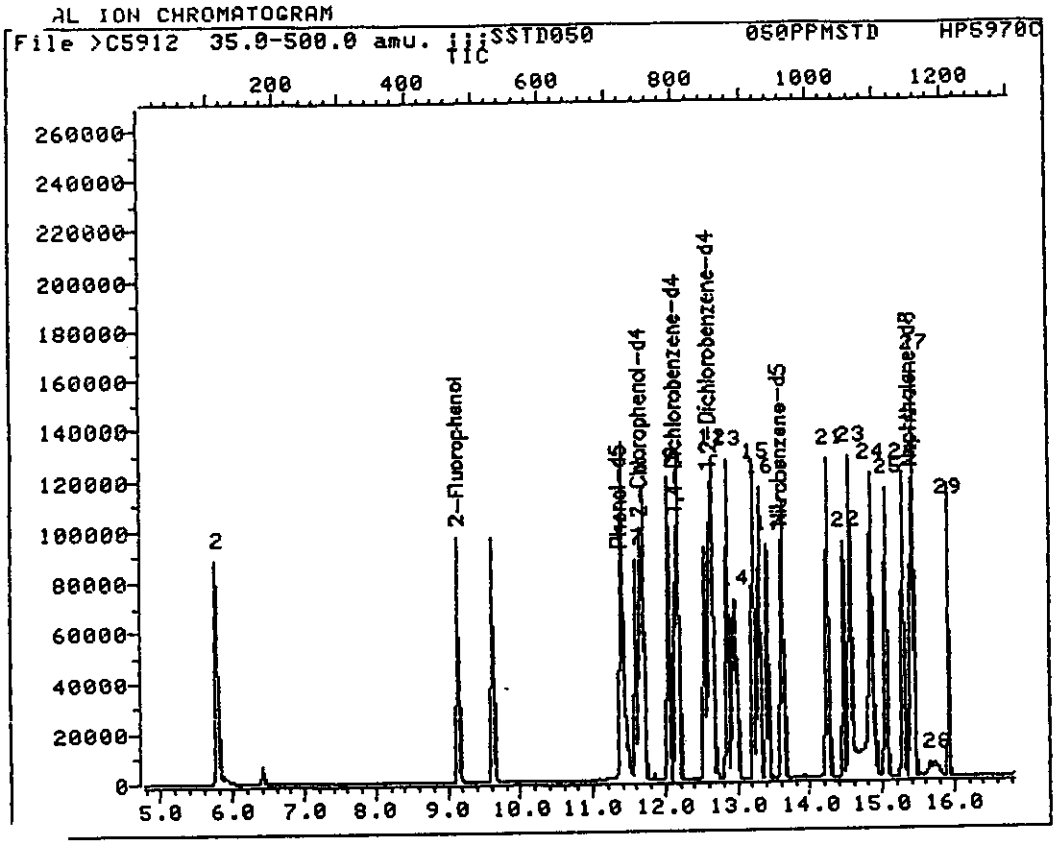
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.13	151.8	30668	40.00	ug	93
2)	Pyridine	5.77	52.0	45672	42.24	ug	94
3)	2-Chlorophenol-d4	11.65	132.0	48876	50.79	ug	89
4)	2-Fluorophenol	9.13	111.8	42706	43.85	ug	76
5)	Phenol-d5	11.36	98.8	61761	49.45	ug	80
6)	Phenol	11.40	93.9	61787	47.58	ug	93
7)	bis(2-Chloroethyl)ether	11.59	92.7	56810	47.23	ug	90
8)	2-Chlorophenol	11.69	127.8	52310	52.55	ug	91
9)	1,3-Dichlorobenzene	12.04	145.8	53979	50.81	ug	96
10)	1,4-Dichlorobenzene	12.17	145.7	55538	49.91	ug	89
11)	1,2-Dichlorobenzene-d4	12.60	152.0	34691	48.52	ug	95
12)	1,2-Dichlorobenzene	12.64	145.7	50885	48.15	ug	97
13)	2-Methylphenol	12.85	107.8	43387	50.22	ug	94
14)	2,2'-oxybis(1-Chloropropane)	12.93	44.8	76886	40.88	ug	79
15)	4-Methylphenol	13.21	107.8	46500	48.15	ug	97
16)	N-Nitroso-di-n-propylamine	13.30	69.9	52763	55.88	ug	86
17)	Hexachloroethane	13.40	116.7	25402	53.85	ug	88
18)	*Naphthalene-d8	15.38	135.9	121572	40.00	ug	98
19)	Nitrobenzene-d5	13.59	81.8	64263	49.68	ug	89
20)	Nitrobenzene	13.64	76.8	64245	51.53	ug	86
21)	Isophorone	14.25	81.8	123378	50.54	ug	95
22)	2-Nitrophenol	14.45	138.9	33034	50.07	ug	91
23)	2,4-Dimethylphenol	14.56	106.8	57186	48.79	ug	93
24)	bis(2-Chloroethoxy)methane	14.82	92.8	69707	50.65	ug	89
25)	2,4-Dichlorophenol	15.05	161.7	46335	48.53	ug	90
26)	1,2,4-Trichlorobenzene	15.28	179.7	51497	55.07	ug	94
27)	Naphthalene	15.44	127.9	141048	46.63	ug	88
28)	4-Chloroaniline	15.71	126.8	7964	12.17	ug	82
29)	Hexachlorobutadiene	15.90	224.6	28232	47.74	ug	97
30)	4-Chloro-3-methylphenol	16.88	106.9	57049	49.60	ug	90
31)	2-Methylnaphthalene	17.24	141.9	107282	50.09	ug	90
32)	*Acenaphthene-d10	20.03	163.9	71044	40.00	ug	87
33)	Hexachlorocyclopentadiene	17.83	236.6	35310	57.42	ug	87
34)	2,4,6-Trichlorophenol	18.04	195.8	37843	57.66	ug	98
35)	2,4,5-Trichlorophenol	18.13	195.8	43250	59.48	ug	89
36)	2-Fluorobiphenyl	18.26	171.8	107698	50.83	ug	93
37)	2-Chloronaphthalene	18.52	161.8	96007	55.86	ug	85
38)	2-Nitroaniline	18.88	64.9	39847	58.26	ug	93
39)	Dimethylphthalate	19.44	162.8	130205	51.82	ug	93
40)	Acenaphthylene	19.63	152.0	143285	49.28	ug	99
41)	2,6-Dinitrotoluene	19.62	164.8	28147	52.28	ug	76
42)	3-Nitroaniline	19.95	137.8	2439	32.61	ug	96

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.24	183.8	14385	51.70	ug	87
45)	4-Nitrophenol	20.38	108.8	16179	55.43	ug	97
46)	Dibenzofuran	20.53	167.8	144423	57.36	ug	88
47)	2,4-Dinitrotoluene	20.65	164.8	46732	55.12	ug	94
48)	Diethylphthalate	21.30	148.8	147839	56.83	ug	84
49)	4-Chlorophenyl-phenylether	21.44	203.9	51170	54.19	ug	83
50)	Fluorene	21.45	165.9	101309	56.15	ug	94
51)	4-Nitroaniline	21.60	137.9	11235	35.43	ug	83
52)	2,4,6-Tribromophenol	22.14	329.6	33865	69.46	ug	97
53)	*Phenanthrene-d10	23.92	187.9	145774	40.00	ug	98
54)	4,6-Dinitro-2-methylphenol	21.70	197.9	24881	48.06	ug	79
55)	N-Nitrosodiphenylamine (1)	21.78	168.9	62353	42.56	ug	89
56)	4-Bromophenyl-phenylether	22.72	247.9	44496	52.09	ug	79
57)	Hexachlorobenzene	23.12	283.6	59845	55.10	ug	91
58)	Pentachlorophenol	23.59	265.6	34462	50.55	ug	90
59)	Phenanthrene	23.99	177.9	184920	52.19	ug	99
60)	Carbazole	24.52	166.8	54739	28.62	ug	97
61)	Anthracene	24.11	177.9	185667	50.50	ug	95
62)	Di-n-butylphthalate	25.57	148.8	260813	50.85	ug	96
63)	Fluoranthene	27.17	201.9	198199	49.18	ug	96
64)	*Chrysene-d12	31.25	240.0	112561	40.00	ug	97
65)	Pyrene	27.76	201.9	199339	53.31	ug	96
66	Terphenyl-d14	28.16	244.0	154642	54.15	ug	99
67	Butylbenzylphthalate	29.53	148.8	112512	57.47	ug	83
68)	3,3'-Dichlorobenzidine	31.11	251.9	25439	54.76	ug	94
69)	Benzo(a)anthracene	31.18	228.0	172888	53.62	ug	98
70)	Chrysene	31.34	228.0	149028	56.45	ug	96
71)	bis(2-Ethylhexyl)phthalate	31.39	148.8	149022	59.34	ug	86
72)	*Perylene-d12	38.10	264.0	106859	40.00	ug	98
73)	Di-n-octylphthalate	33.91	148.9	239573	47.68	ug	91
74)	Benzo(b)fluoranthene	35.90	252.0	159458M	51.45	ug	98
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.02~~	~~252.0~~	~~152031~~	~~49.06~~	~~ug~~	~~95~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~35.86~~	~~252.0~~	~~85313^~~	~~27.59~~	~~ug~~	~~97~~
75)	Benzo(k)fluoranthene	36.02	252.0	152031	49.17	ug	95
76)	Benzo(a)pyrene	37.74	252.0	134651	46.34	ug	99
77)	Indeno(1,2,3-cd)pyrene	46.55	276.0	110636M	67.48	ug	96
78)	Dibenz(a,h)anthracene	46.84	278.0	113330	68.92	ug	94
79)	Benzo(g,h,i)perylene	49.17	276.0	114125M	74.74	ug	82

GMC 2/1/93

* Compound is ISTD



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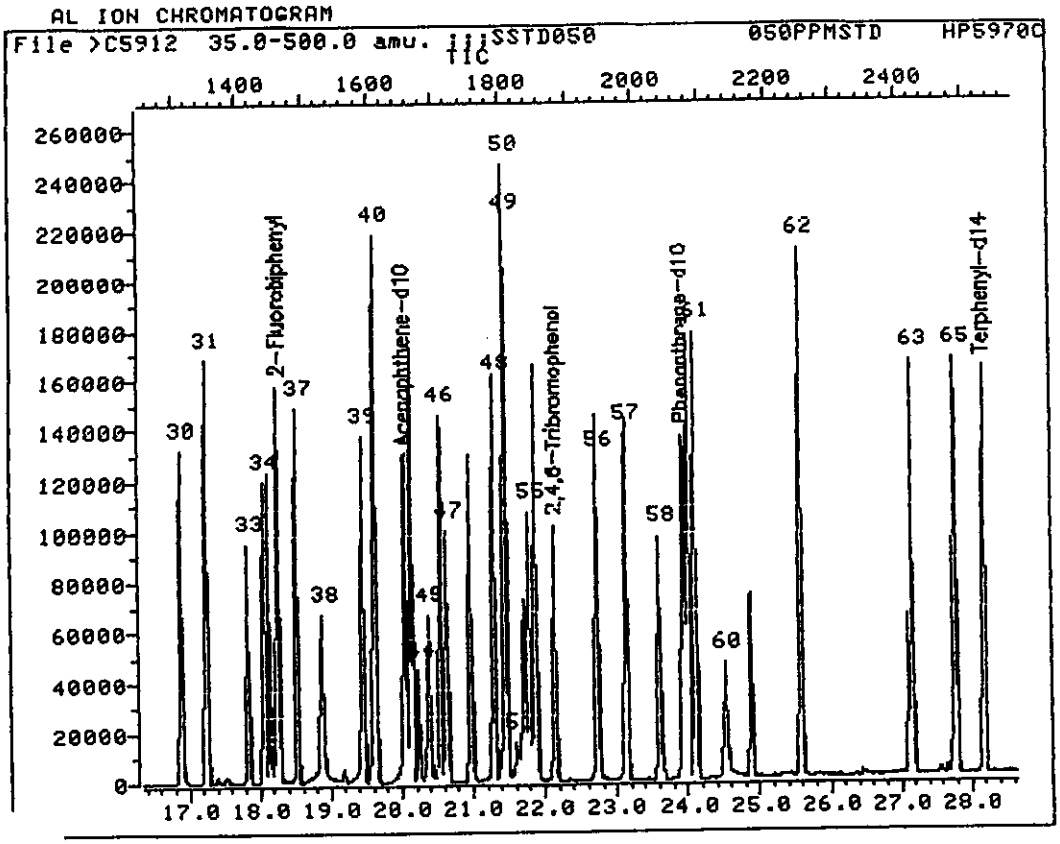
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930201 13:11
Injected at: 930201 12:16

TIC page 1 of 4

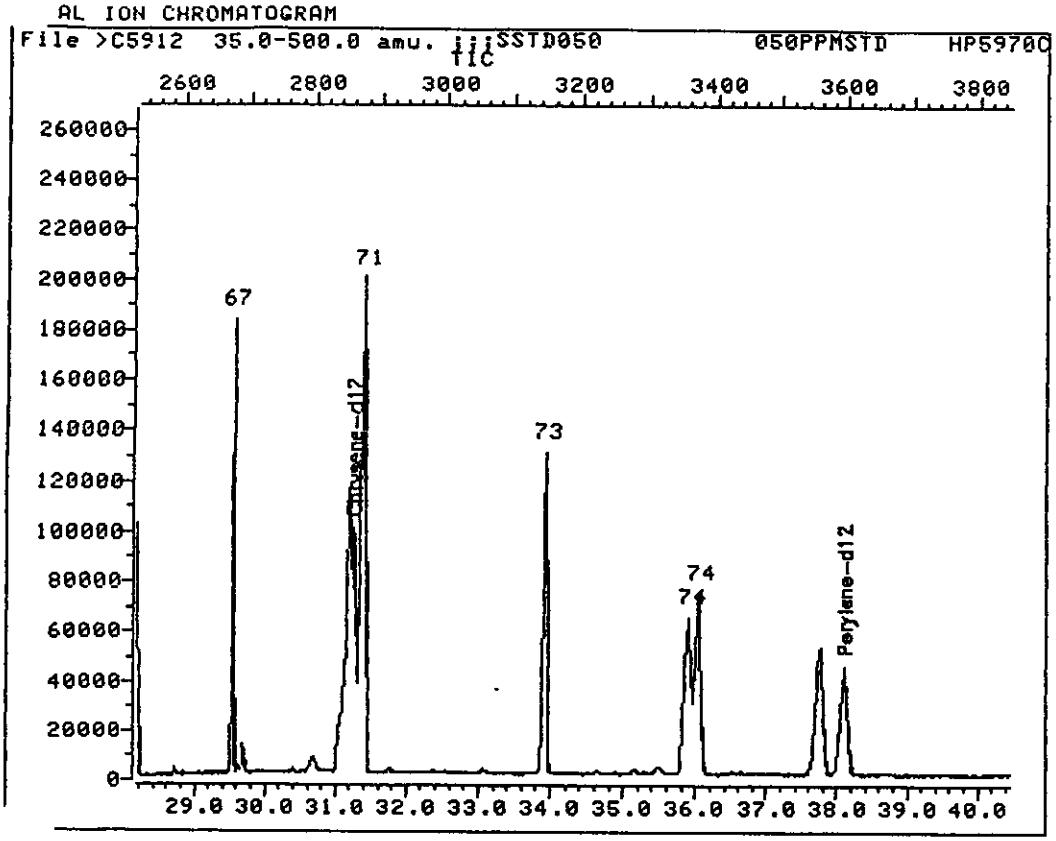


Data File: >C5912::C5 Quant Output File: ^C5912::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930201 13:11
Injected at: 930201 12:16

TIC page 2 of 4

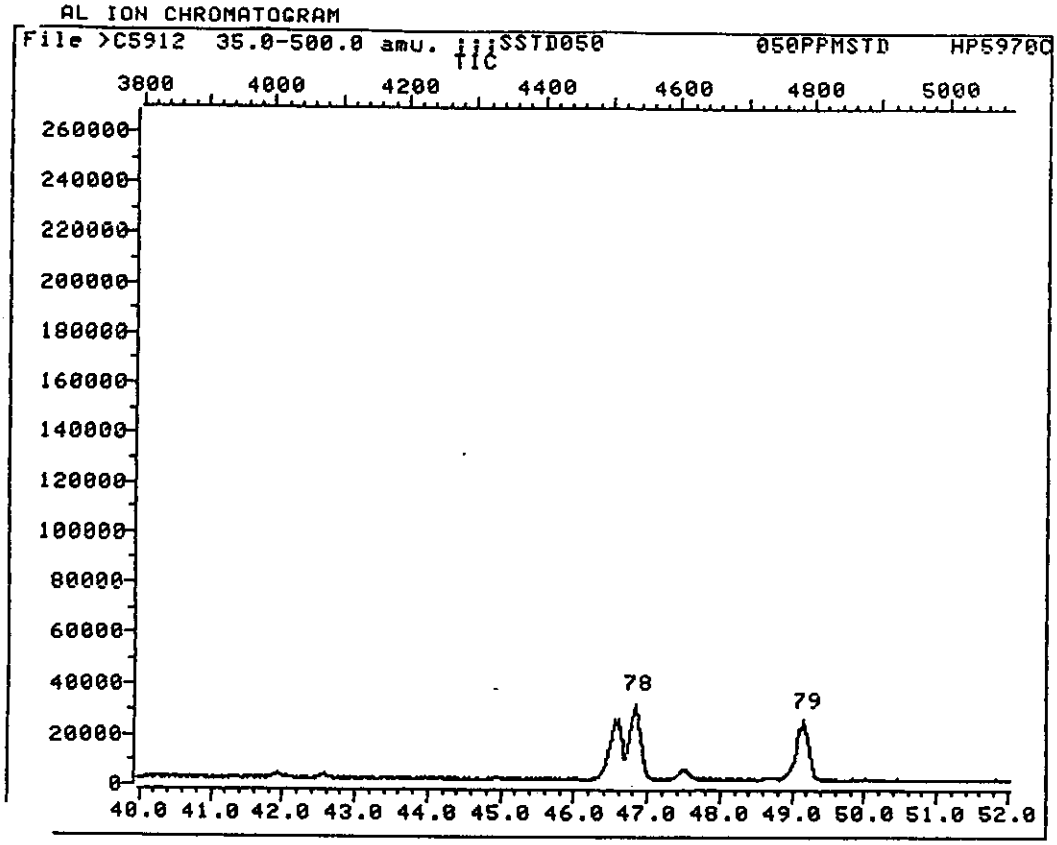


Data File: >C5912::C5 Quant Output File: ^C5912::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930201 13:11
Injected at: 930201 12:16

TIC page 3 of 4



Data File: >C5912::C5 Quant Output File: ^C5912::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930201 13:11
Injected at: 930201 12:16

TIC page 4 of 4

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

0 0532

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date: 02/02/93 Time: 1118

Lab File ID: C5924.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 .. 1704

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.531	1.611	0.800	-5.2	25.0
bis(2-Chloroethyl)ether	1.383	1.450	0.700	-4.8	25.0
2-Chlorophenol	1.224	1.238	0.800	-1.2	25.0
1,3-Dichlorobenzene	1.312	1.350	0.600	-2.9	25.0
1,4-Dichlorobenzene	1.311	1.357	0.500	-3.5	25.0
1,2-Dichlorobenzene	1.238	1.250	0.400	-0.9	25.0
2-Methylphenol	1.078	1.067	0.700	1.0	25.0
2,2'-oxybis(1-Chloropropane)	2.319	2.714		-17.1	
4-Methylphenol	1.163	1.130	0.600	2.9	25.0
N-Nitroso-di-n-propylamine	1.269	1.267	0.500	0.1	25.0
Hexachloroethane	0.580	0.603	0.300	-3.9	25.0
Nitrobenzene	0.403	0.425	0.200	-5.5	25.0
Isophorone	0.779	0.823	0.400	-5.6	25.0
2-Nitrophenol	0.193	0.233	0.100	-20.6	25.0
2,4-Dimethylphenol	0.361	0.392	0.200	-8.6	25.0
bis(2-Chloroethoxy)methane	0.477	0.471	0.300	1.3	25.0
2,4-Dichlorophenol	0.293	0.307	0.200	-5.0	25.0
1,2,4-Trichlorobenzene	0.319	0.328	0.200	-2.6	25.0
Naphthalene	0.940	0.936	0.700	0.5	25.0
4-Chloroaniline	0.316	0.062		80.4	
Hexachlorobutadiene	0.182	0.202		-11.1	
4-Chloro-3-methylphenol	0.371	0.372	0.200	-0.3	25.0
2-Methylnaphthalene	0.688	0.692	0.400	-0.5	25.0
Hexachlorocyclopentadiene	0.365	0.361		1.2	
2,4,6-Trichlorophenol	0.409	0.419	0.200	-2.2	25.0
2,4,5-Trichlorophenol	0.397	0.439	0.200	-10.6	25.0
2-Chloronaphthalene	1.027	1.028	0.800	-0.1	25.0
2-Nitroaniline	0.464	0.421		9.2	
Dimethylphthalate	1.434	1.366		4.7	
Acenaphthylene	1.489	1.468	1.300	1.4	25.0
2,6-Dinitrotoluene	0.280	0.302	0.200	-8.0	25.0
3-Nitroaniline	0.109	0.038		65.1	
Acenaphthene	1.036	1.044	0.800	-0.7	25.0
2,4-Dinitrophenol	0.166	0.173		-4.0	
4-Nitrophenol	0.175	0.155		11.4	
Dibenzofuran	1.437	1.497	0.800	-4.2	25.0
2,4-Dinitrotoluene	0.460	0.488	0.200	-6.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

0533

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Instrument ID: HP5970C Calibration Date: 02/02/93 Time: 1118

Lab File ID: C5924.D Init. Calibration Date(s): 01/28/93

Init. Calibration Times: 1145 1704

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Diethylphthalate	1.478	1.421		3.8		
4-Chlorophenyl-phenylether	0.494	0.517	0.400	-4.5	25.0	
Fluorene	0.966	0.984	0.900	-1.8	25.0	
4-Nitroaniline	0.194	0.112		42.4		
4,6-Dinitro-2-methylphenol	0.112	0.156		-38.9		
N-Nitrosodiphenylamine (1)	0.370	0.303		18.0		
4-Bromophenyl-phenylether	0.208	0.233	0.100	-11.9	25.0	
Hexachlorobenzene	0.283	0.335	0.100	-18.5	25.0	
Pentachlorophenol	0.173	0.184	0.050	-6.2	25.0	
Phenanthrene	0.900	0.961	0.700	-6.8	25.0	
Anthracene	0.902	0.995	0.700	-10.2	25.0	
Carbazole	0.478	0.414		13.4		
Di-n-butylphthalate	1.199	1.437		-19.8		
Fluoranthene	0.932	1.098	0.600	-17.8	25.0	
Pyrene	1.331	1.409	0.600	-5.9	25.0	
Butylbenzylphthalate	0.636	0.719		-13.0		
3,3'-Dichlorobenzidine	0.192	0.133		30.5		
Benzo(a)anthracene	1.013	1.079	0.800	-6.5	25.0	
Chrysene	0.825	0.887	0.700	-7.6	25.0	
bis(2-Ethylhexyl)phthalate	0.739	0.924		-25.0		
Di-n-octylphthalate	1.873	2.068		-10.4		
Benzo(b)fluoranthene	1.295	1.325	0.700	-2.3	25.0	
Benzo(k)fluoranthene	1.141	1.139	0.700	0.2	25.0	
Benzo(a)pyrene	1.082	1.058	0.700	2.2	25.0	
Indeno(1,2,3-cd)pyrene	0.696	0.840	0.500	-20.7	25.0	
Dibenz(a,h)anthracene	0.693	0.839	0.400	-21.2	25.0	
Benzo(g,h,i)perylene	0.683	0.875	0.500	-28.0	25.0	<-
Nitrobenzene-d5	0.414	0.447	0.200	-7.9	25.0	
2-Fluorobiphenyl	1.165	1.197	0.700	-2.8	25.0	
Terphenyl-d14	1.045	1.072	0.500	-2.5	25.0	
Phenol-d5	1.520	1.573	0.800	-3.5	25.0	
2-Fluorophenol	1.128	1.172	0.600	-3.9	25.0	
2,4,6-Tribromophenol	0.301	0.342		-13.8		
2-Chlorophenol-d4	1.207	1.207	0.800	-0.1	25.0	
1,2-Dichlorobenzene-d4	0.844	0.908	0.400	-7.6	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930202 12:13
Output File: ^C5924::QT Injected at: 930202 11:18
Data File: >C5924::C3 Dilution Factor: 1.00000
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0953 BTL#98

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

QMC 2/2/93

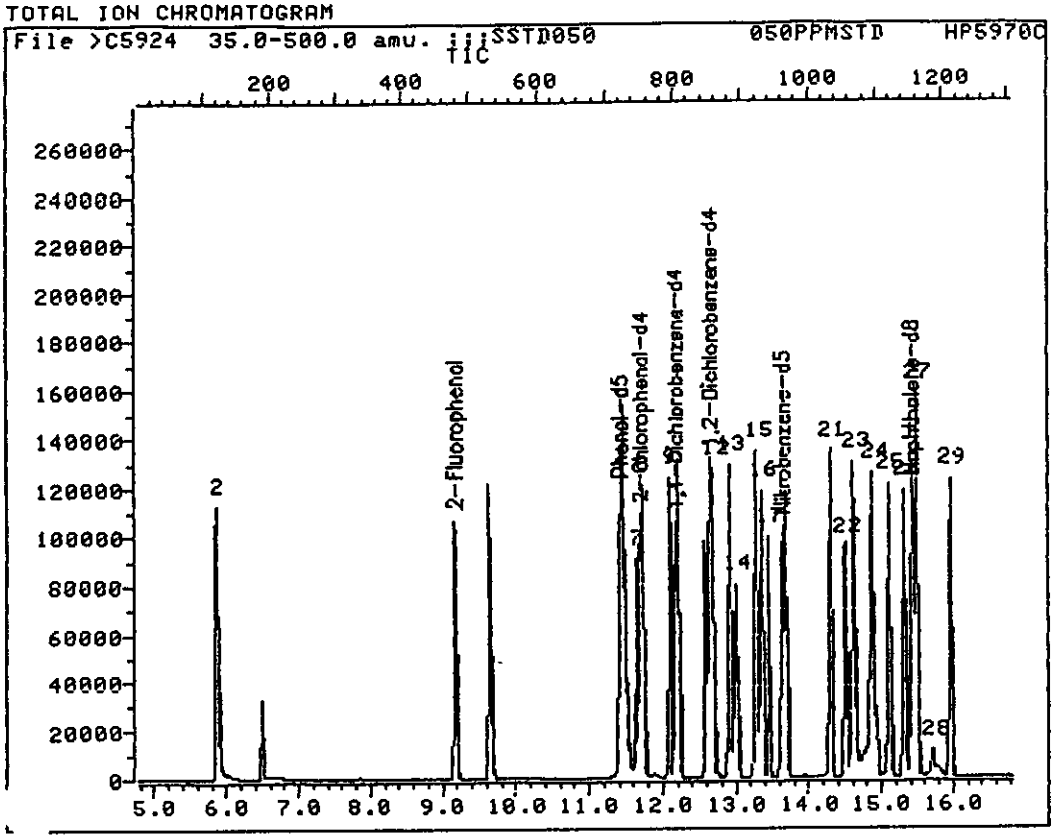
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.17	151.8	35902	40.00	ug	94
2)	Pyridine	5.85	52.0	55644	52.04	ug	93
3)	2-Chlorophenol-d4	11.70	132.0	54184	47.35	ug	97
4)	2-Fluorophenol	9.17	111.8	52618	52.62	ug	89
5)	Phenol-d5	11.42	98.8	70590	48.82	ug	81
6)	Phenol	11.45	93.9	72298	49.98	ug	78
7)	bis(2-Chloroethyl)ether	11.64	92.7	65056	48.91	ug	94
8)	2-Chlorophenol	11.74	127.8	55567	45.37	ug	88
9)	1,3-Dichlorobenzene	12.08	145.8	60580	47.93	ug	97
10)	1,4-Dichlorobenzene	12.21	145.7	60886	46.82	ug	85
11	1,2-Dichlorobenzene-d4	12.65	152.0	40768	50.19	ug	95
12)	1,2-Dichlorobenzene	12.68	145.7	56097	47.09	ug	96
13)	2-Methylphenol	12.91	107.8	47878	47.13	ug	90
14)	2,2'-oxybis(1-Chloropropane)	12.98	44.8	121817M	67.67	ug	
15)	4-Methylphenol	13.27	107.8	50697	46.57	ug	93
16)	N-Nitroso-di-n-propylamine	13.34	69.9	56868	46.03	ug	91
17)	Hexachloroethane	13.44	116.7	27047	45.48	ug	80
18)	*Naphthalene-d8	15.43	135.9	136695	40.00	ug	97
19)	Nitrobenzene-d5	13.65	81.8	76363	52.84	ug	82
20)	Nitrobenzene	13.69	76.8	72590	50.24	ug	88
21)	Isophorone	14.29	81.8	140677	50.70	ug	95
22)	2-Nitrophenol	14.50	138.9	39779	53.55	ug	89
23)	2,4-Dimethylphenol	14.61	106.8	66984	52.09	ug	85
24)	bis(2-Chloroethoxy)methane	14.87	92.8	80459	51.33	ug	81
25)	2,4-Dichlorophenol	15.10	161.7	52488	50.37	ug	98
26)	1,2,4-Trichlorobenzene	15.32	179.7	55987	48.35	ug	88
27)	Naphthalene	15.48	127.9	159945	50.43	ug	88
28)	4-Chloroaniline	15.70	126.8	10604	59.21	ug	95
29)	Hexachlorobutadiene	15.95	224.6	34568	54.45	ug	89
30)	4-Chloro-3-methylphenol	16.93	106.9	63603	49.58	ug	87
31)	2-Methylnaphthalene	17.29	141.9	118182	48.99	ug	91
32)	*Acenaphthene-d10	20.10	163.9	89550	40.00	ug	92
33)	Hexachlorocyclopentadiene	17.89	236.6	40363	45.34	ug	93
34)	2,4,6-Trichlorophenol	18.10	195.8	46848	49.11	ug	87
35)	2,4,5-Trichlorophenol	18.19	195.8	49166	45.09	ug	94
36	2-Fluorobiphenyl	18.31	171.8	133978	49.35	ug	97
37)	2-Chloronaphthalene	18.57	161.8	115079	47.55	ug	83
38)	2-Nitroaniline	18.92	64.9	47135	46.92	ug	94
39)	Dimethylphthalate	19.49	162.8	152922	46.59	ug	93
40)	Acenaphthylene	19.69	152.0	164308	45.49	ug	98
41)	2,6-Dinitrotoluene	19.67	164.8	33861	47.72	ug	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.28	183.8	19313	53.26	ug	90
45)	4-Nitrophenol	20.44	108.8	17371	42.59	ug	99
46)	Dibenzofuran	20.59	167.8	167618	46.04	ug	91
47)	2,4-Dinitrotoluene	20.69	164.8	54656	46.39	ug	88
48)	Diethylphthalate	21.35	148.8	159103	42.69	ug	90
49)	4-Chlorophenyl-phenylether	21.50	203.9	57825	44.83	ug	91
50)	Fluorene	21.52	165.9	110105	43.11	ug	93
51)	4-Nitroaniline	21.69	137.9	12503	44.14	ug	89
52)	2,4,6-Tribromophenol	22.19	329.6	38301	44.86	ug	88
53)	*Phenanthrene-d10	23.99	187.9	162227	40.00	ug	96
54)	4,6-Dinitro-2-methylphenol	21.76	197.9	31581	57.03	ug	83
55)	N-Nitrosodiphenylamine (1)	21.83	168.9	61486	44.30	ug	96
56)	4-Bromophenyl-phenylether	22.78	247.9	47290	47.75	ug	86
57)	Hexachlorobenzene	23.18	283.6	67925	51.00	ug	89
58)	Pentachlorophenol	23.64	265.6	37301	48.63	ug	85
59)	Phenanthrene	24.05	177.9	194836	47.34	ug	98
60)	Carbazole	24.59	166.8	83999	68.95	ug	96
61)	Anthracene	24.16	177.9	201687	48.81	ug	98
62)	Di-n-butylphthalate	25.63	148.8	291335	50.19	ug	97
63)	Fluoranthene	27.22	201.9	222667	50.48	ug	98
64)	*Chrysene-d12	31.34	240.0	129748	40.00	ug	93
65	Pyrene	27.83	201.9	228569	49.74	ug	99
66	Terphenyl-d14	28.22	244.0	173831	48.76	ug	99
67)	Butylbenzylphthalate	29.60	148.8	116597	44.95	ug	79
68)	3,3'-Dichlorobenzidine	31.20	251.9	21632	36.89	ug	89
69)	Benzo(a)anthracene	31.27	228.0	174944	43.89	ug	93
70)	Chrysene	31.42	228.0	143865	41.87	ug	96
71)	bis(2-Ethylhexyl)phthalate	31.47	148.8	149837	43.61	ug	92
72)	*Perylene-d12	38.26	264.0	100452	40.00	ug	98
73)	Di-n-octylphthalate	34.01	148.9	259691	57.66	ug	90
74)	Benzo(b)fluoranthene	36.02	252.0	166342M	55.49	ug	98
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.17~~	~~252.0~~	~~142973~~	~~47.69~~	~~ug~~	~~94~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.02~~	~~252.0~~	~~133003~~	~~46.53~~	~~ug~~	~~98~~
75)	Benzo(k)fluoranthene	36.17	252.0	142973	50.02	ug	94
76)	Benzo(a)pyrene	37.92	252.0	132862	52.48	ug	93
77)	Indeno(1,2,3-cd)pyrene	46.84	276.0	105448M	50.69	ug	90
78)	Dibenz(a,h)anthracene	47.12	278.0	105393M	49.46	ug	82
79)	Benzo(g,h,i)perylene	49.46	276.0	109855M	51.20	ug	83

GMC 2/2/93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



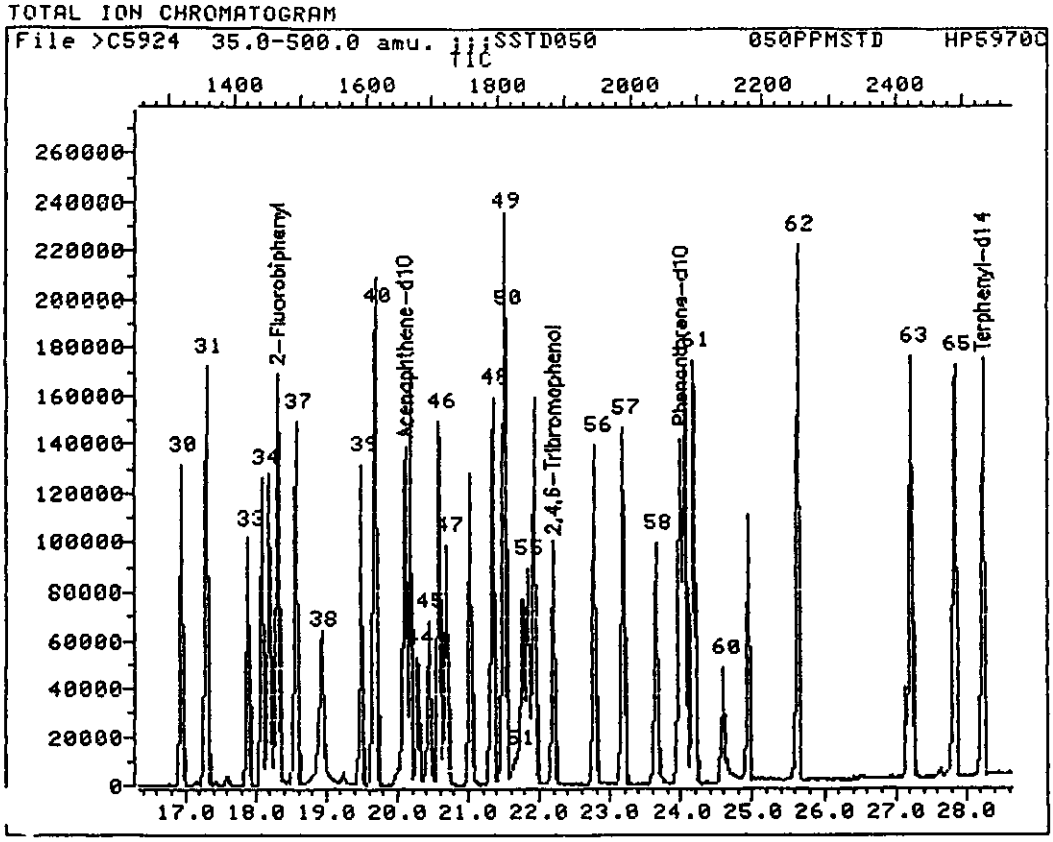
Data File: >C5924::C3 Quant Output File: ^C5924::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0953 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930202 12:13
Injected at: 930202 11:18

TIC page 1 of 4

TOTAL ION CHROMATOGRAM



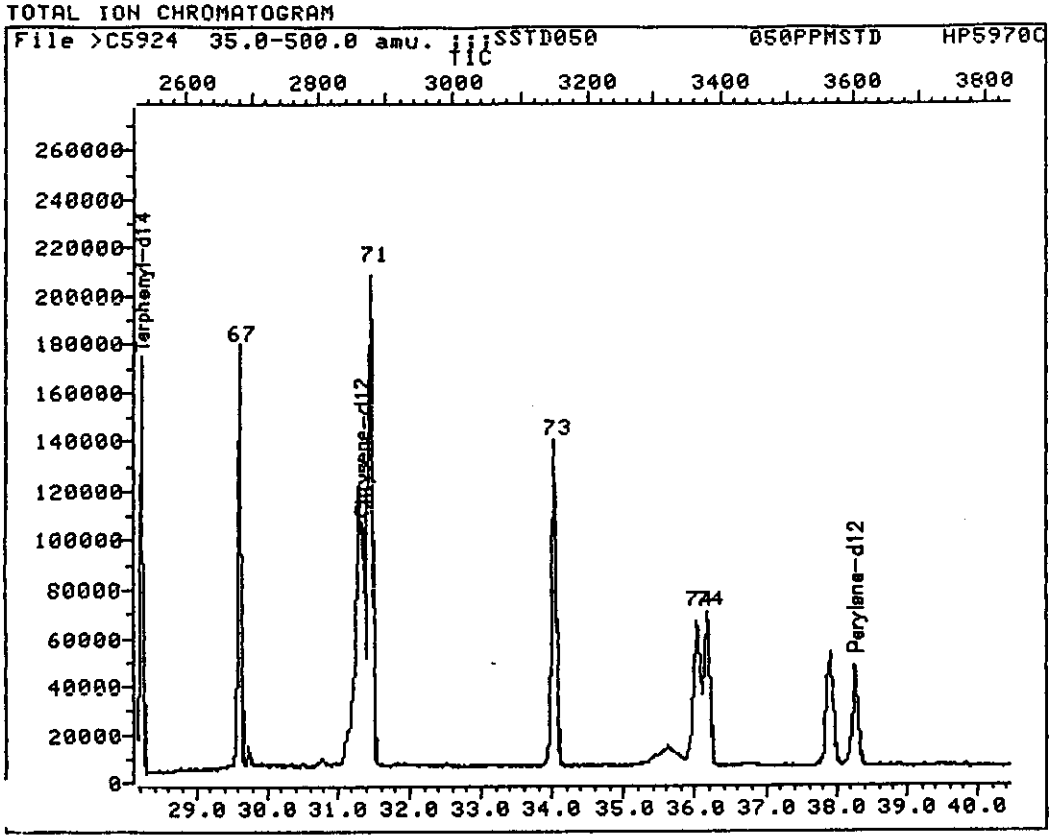
Data File: >C5924::C3 Quant Output File: ^C5924::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0953 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930202 12:13
Injected at: 930202 11:18

TIC page 2 of 4

TOTAL ION CHROMATOGRAM



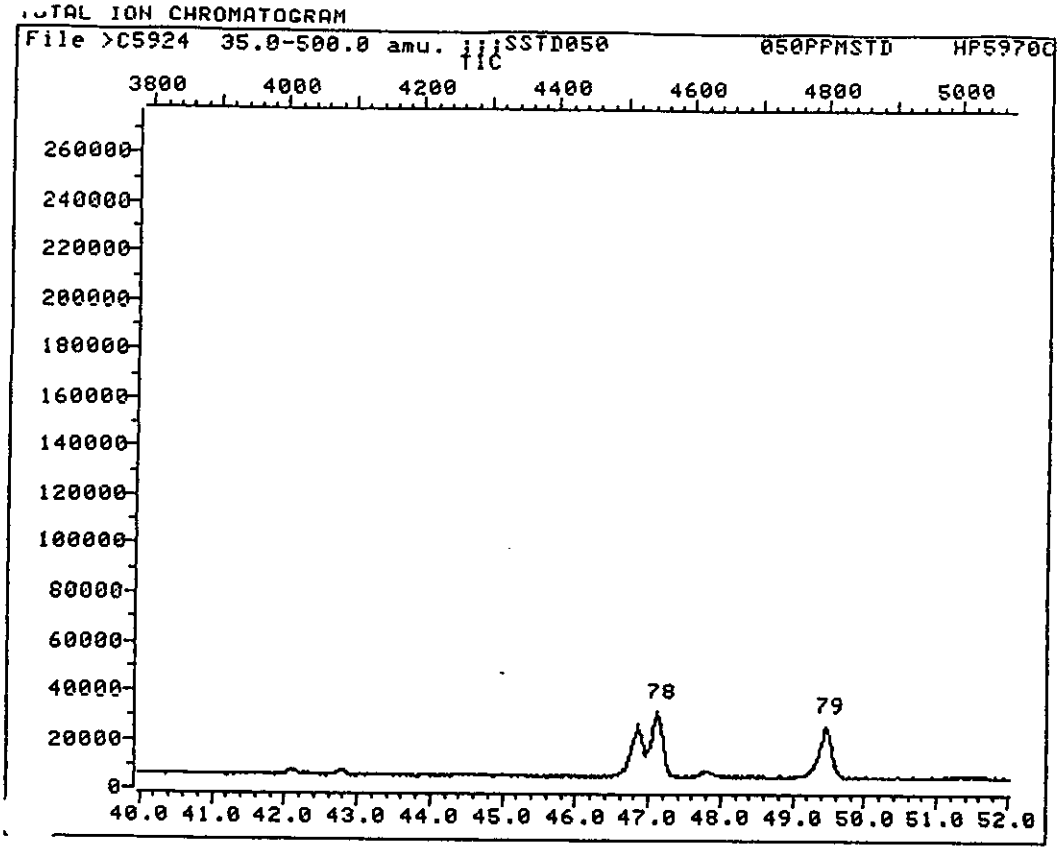
Data File: >C5924::C3 Quant Output File: ^C5924::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0953 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930202 12:13
Injected at: 930202 11:18

TIC page 3 of 4

TOTAL ION CHROMATOGRAM



Data File: >C5924::C3 Quant Output File: ^C5924::QT
Name: ;;;SSTD050
Misc: 050PPMSTD HP5970C;;;;1;;;C0953 BTL#98

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930202 12:13
Injected at: 930202 11:18

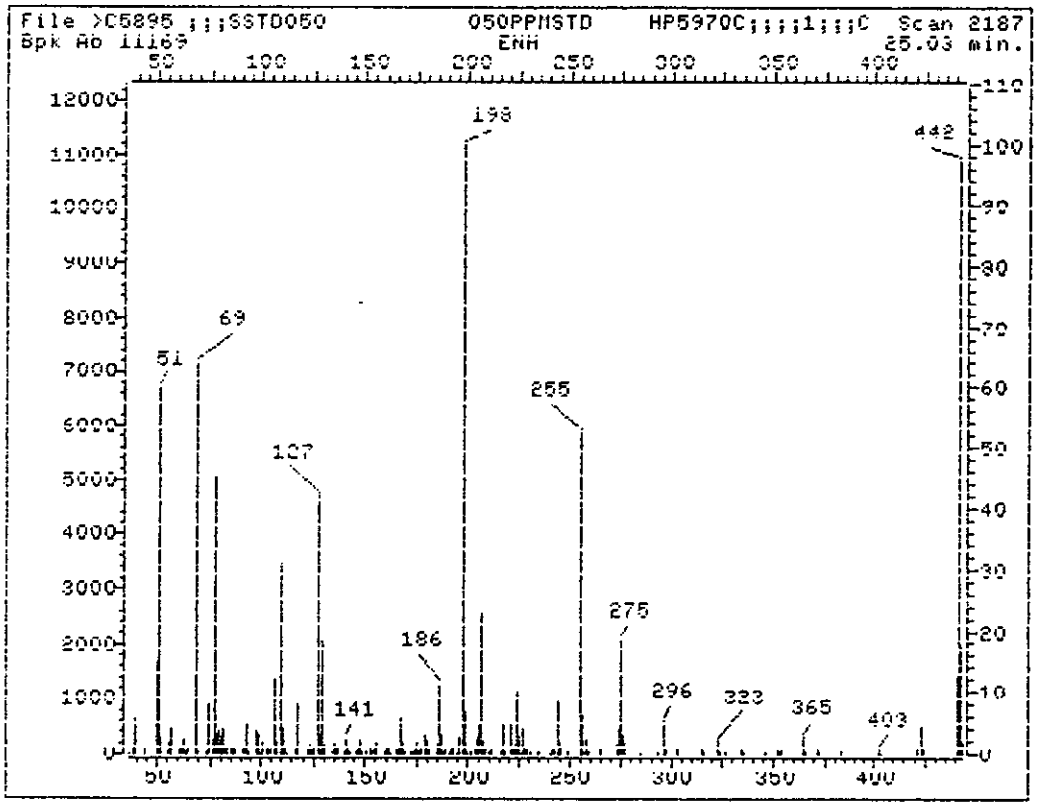
TIC page 4 of 4

MS data file header from : >C5895

C 0540

Sample: ;;;SSTD050 Operator: MSC MS 1/28/93 11:45
Misc : 050PPMSTD HP5970C;;;;1;;;C0950 BTL#56
Sys. #: 1 MS model: 70 SW/HW rev.: 1A ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures : 40. 290. 0. 0. 0.
Chromatographic times, min. : 4.0 23.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 10.0 0.0 0.0 .5 -- 0.0



MS data file header from : >C5895

Sample: ;;;SSTD050 Operator: MSC MS 1/28/93 11:45
Misc : 050PPMSTD HP5970C;;;;1;;;C0950 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: 1A ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures : 40. 250. 0. 0. 0.
Chromatographic times, min. : 4.0 23.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 10.0 0.0 0.0 .5 0.0

>C5895 ;;;SSTD050 050PPMSTD HP5970C;;;;1;;;C0950
2187 NRM ENH

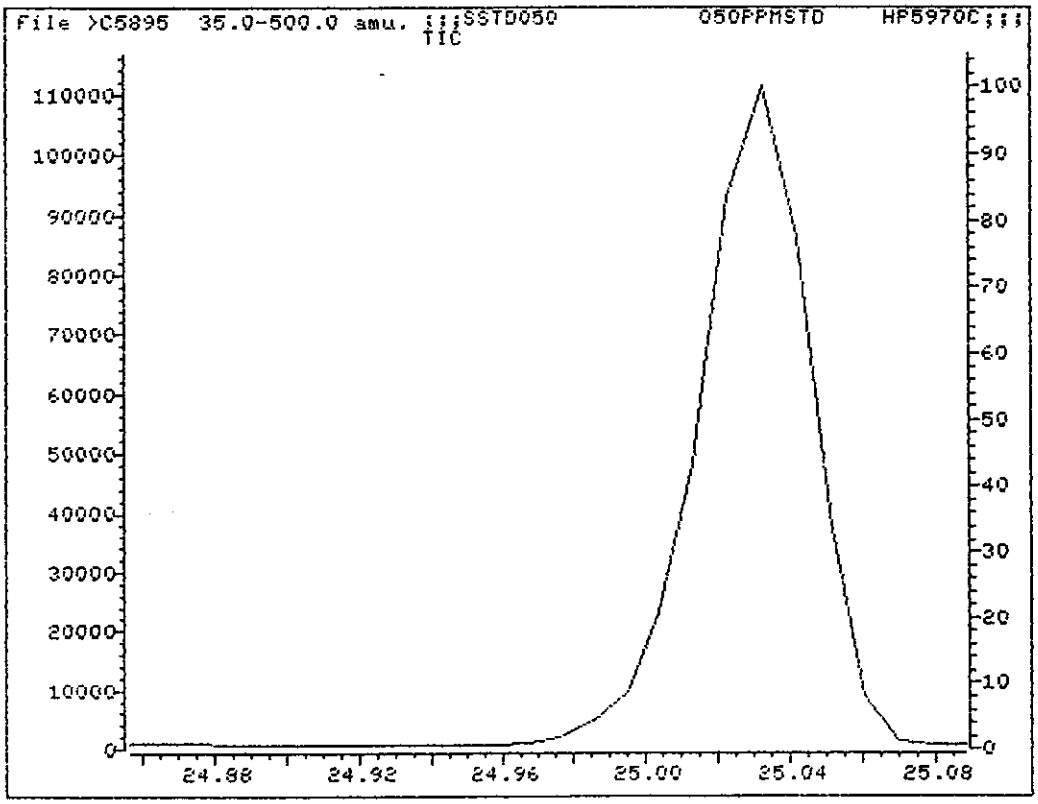
File: >C5895 Scan #: 2187 Retn. time: 25.03

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.90	.094	99.10	2.977	153.05	.752	203.00	.591	273.90	4.060
38.00	.873	99.95	.130	154.05	.434	204.00	2.605	275.00	18.627
39.00	5.631	100.95	1.714	154.95	1.106	205.00	5.157	276.00	2.528
44.10	1.155	103.05	.627	156.05	1.791	206.05	22.853	277.00	1.612
50.05	14.799	103.95	1.025	159.05	.327	206.95	2.211	284.95	.139
51.05	99.850	104.95	1.182	160.05	.654	207.95	.792	292.95	.381
52.05	2.780	107.05	12.167	160.95	1.092	210.55	.412	295.95	5.394
54.95	.425	108.05	1.858	161.95	.157	211.05	.658	297.05	.645
56.05	1.786	109.95	31.058	164.95	.953	216.05	.416	303.00	.618
57.05	4.078	111.05	4.212	166.00	1.115	217.05	4.826	315.05	.631
61.00	.833	112.05	.569	167.00	5.806	218.05	.331	315.95	.385
62.00	.895	112.95	.116	167.90	1.858	221.00	4.570	322.95	1.903
63.00	2.220	116.00	.761	168.90	.336	221.70	.560	324.05	.403
64.00	.215	117.00	7.932	172.00	.479	223.00	1.388	326.90	.206
65.10	1.039	117.90	.609	172.90	.524	224.00	10.023	334.00	1.186
69.00	63.861	122.00	.851	174.00	.971	225.00	2.834	335.00	.228
69.90	.372	123.00	1.330	175.00	1.616	226.10	.161	345.95	.237
73.10	.327	124.00	.658	176.10	.492	227.00	4.199	352.00	.640
74.05	4.682	125.00	.546	177.00	.783	228.00	.573	353.00	.434
74.95	8.152	126.95	41.877	179.00	3.040	229.00	1.097	354.00	.671
76.05	2.390	128.05	3.102	180.05	2.135	231.00	.242	364.95	2.601
77.05	45.145	128.95	18.461	180.95	1.030	234.95	.313	365.95	.389
78.05	3.013	129.95	1.544	185.05	1.531	240.95	.175	371.95	1.101
78.95	3.626	133.95	.488	186.05	11.164	241.95	.663	372.95	.349
79.95	2.874	135.05	1.616	186.95	3.196	242.95	.676	382.90	.210
80.95	3.948	136.05	.586	187.95	.367	244.05	9.096	402.95	.685
82.05	.846	137.05	.703	188.95	.703	245.05	1.227	403.90	.125
82.95	.842	139.90	.242	191.05	.201	245.90	1.737	420.95	.663
85.05	.783	140.90	2.538	191.95	.980	248.90	.318	421.85	.457
86.05	.909	142.00	.846	193.00	.936	255.00	52.352	423.05	4.409
87.00	.564	142.90	.524	195.10	.157	255.90	6.477	424.05	.804
91.00	1.003	145.90	.383	195.90	2.605	257.00	.233	441.00	13.058
92.00	.792	146.90	.980	197.90	100.000	258.00	2.285	442.00	97.372
93.00	4.955	147.90	2.068	199.00	6.782	258.95	.246	443.00	17.579
93.90	.398	149.00	.461	199.90	.269	264.95	1.083	443.95	1.629
98.00	3.626	151.00	.278	201.50	.483	273.00	1.495		

MS data file header from : >C5895

Sample: ;;;SSTD050 Operator: MSC MS 1/28/93 11:45
Misc : 050PPMSTD HP5970C;;;;!;;;C0950 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0

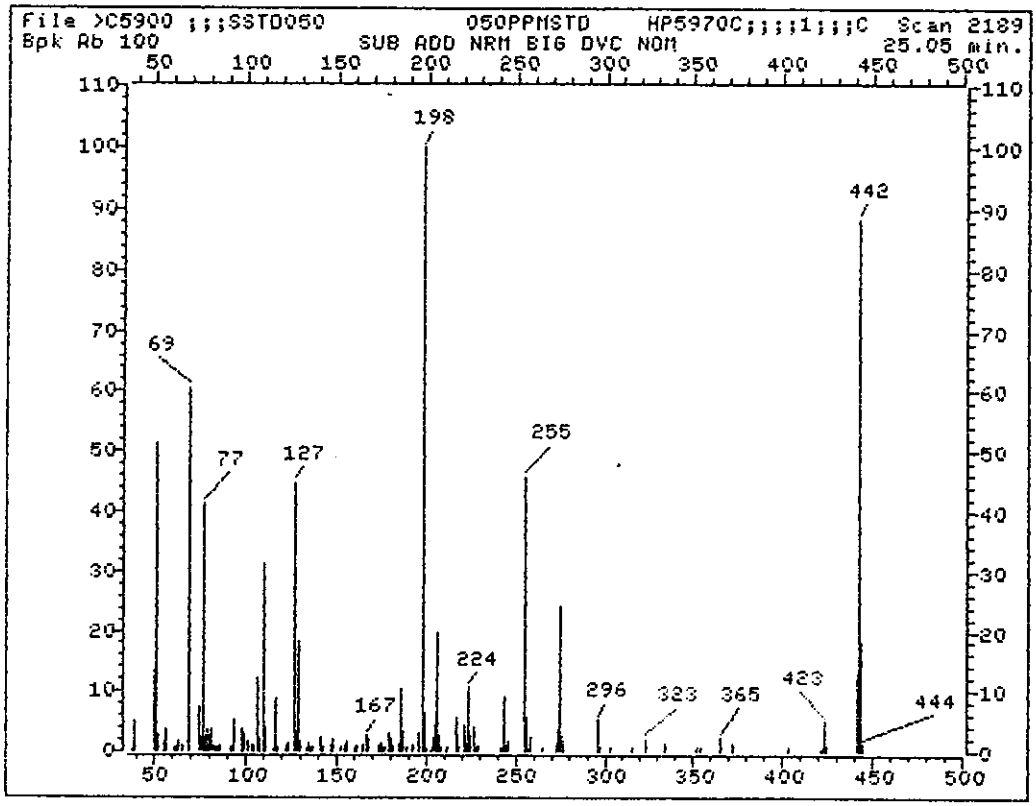


MS data file header from : >C5900

0543

Sample: ;;;SSTD050 Operator: MSC MS 1/29/93 9:28
Misc : 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0



MS data file header from : >C5900

Sample: ;;;SSTD050 Operator: MSC MS 1/29/93 9:28
Misc : 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0

>C5900 ;;;SSTD050 050PPMSTD HP5970C;;;;1;;;C0951
2189 SUB ADD NRM BIG DVC NOM

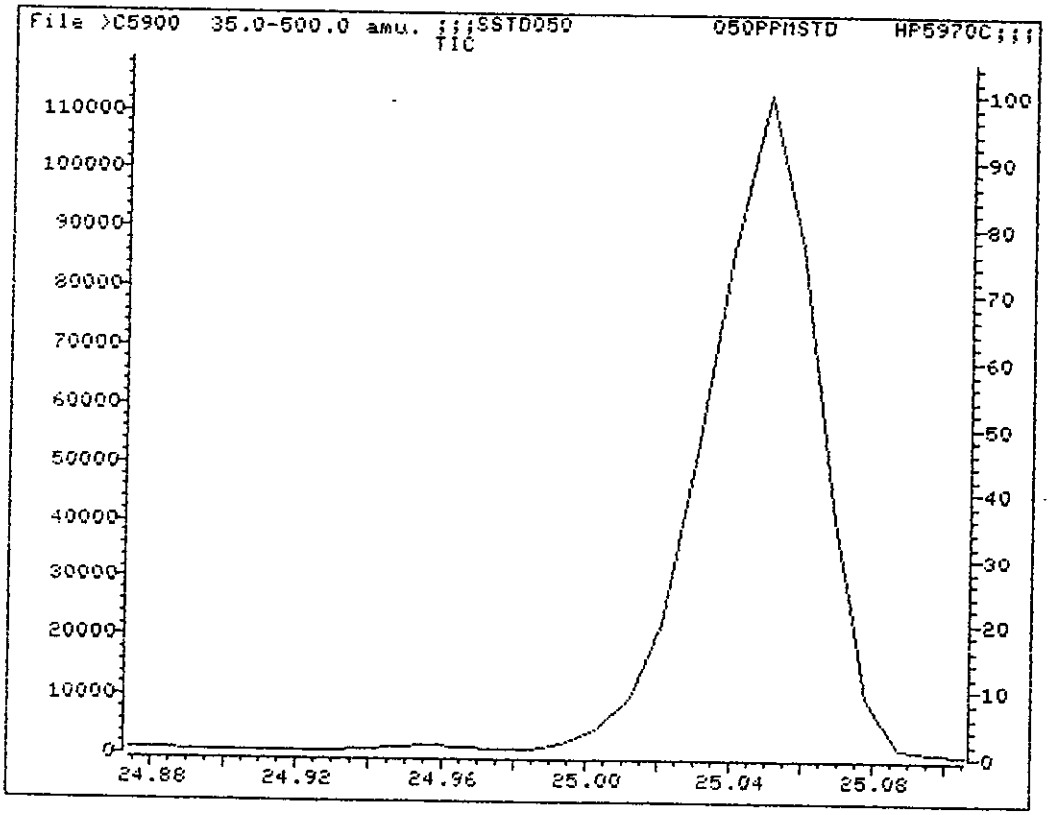
File: >C5900 Scan #: 2189 Retn. time: 25.05

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.10	.576	93.00	5.289	142.00	.787	198.90	6.545	258.00	2.276
39.10	4.950	98.00	3.726	147.00	1.132	200.00	.517	264.95	.850
50.05	13.382	99.00	3.197	148.00	2.107	202.90	.657	272.90	1.373
51.05	51.246	100.95	1.714	152.95	.731	204.00	2.496	273.90	3.803
52.05	2.656	102.95	.683	155.05	1.147	205.00	4.293	275.00	24.182
56.05	1.601	103.95	1.194	155.95	1.631	206.05	19.773	276.00	2.843
57.05	3.776	105.05	1.108	159.95	.737	206.95	2.707	276.90	1.691
61.00	.719	107.05	12.244	160.95	.975	207.95	.752	295.95	5.372
62.00	.695	108.05	1.949	164.95	.924	211.05	.796	297.05	.841
63.00	1.801	110.05	31.337	167.00	2.695	216.95	5.624	302.90	.633
65.10	.960	111.05	4.062	168.00	1.905	217.95	.669	315.05	.559
69.00	60.478	116.00	.796	174.00	.927	221.10	4.525	323.05	2.145
74.05	4.088	117.00	8.804	175.00	1.334	223.00	1.346	334.00	1.248
75.05	7.520	118.00	.633	176.00	.588	224.00	10.619	352.00	.645
76.05	2.338	122.00	.900	176.90	.772	225.00	2.624	354.00	.612
77.05	41.296	123.00	1.272	179.00	3.164	226.90	4.118	364.95	2.356
78.05	2.665	124.00	.576	180.05	2.035	228.00	.698	371.95	1.301
79.05	3.601	126.95	44.850	180.95	1.040	228.80	1.019	403.05	.642
80.05	2.567	127.95	3.515	185.05	1.512	242.05	.666	420.85	.648
80.95	3.631	128.95	18.097	186.05	10.450	243.05	.671	421.95	.603
82.05	.891	130.05	1.622	186.95	3.420	244.05	9.077	423.05	4.968
83.05	.871	133.95	.559	188.85	.657	245.05	1.129	423.95	1.076
85.05	.698	135.05	1.373	192.05	1.037	246.00	1.661	441.00	13.242
86.05	.906	136.05	.585	193.00	1.058	255.00	45.806	442.00	88.377
91.00	.859	137.05	.686	196.00	2.938	256.00	5.610	443.00	18.326
92.00	.868	141.00	2.338	197.90	100.000	257.10	.520	443.95	1.379

MS data file header from : >C5900

Sample: ;;;SSTD050 Operator: MSC MS 1/29/93 9:28
Misc : 050PPMSTD HP5970C;;;;1;;;C0951 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

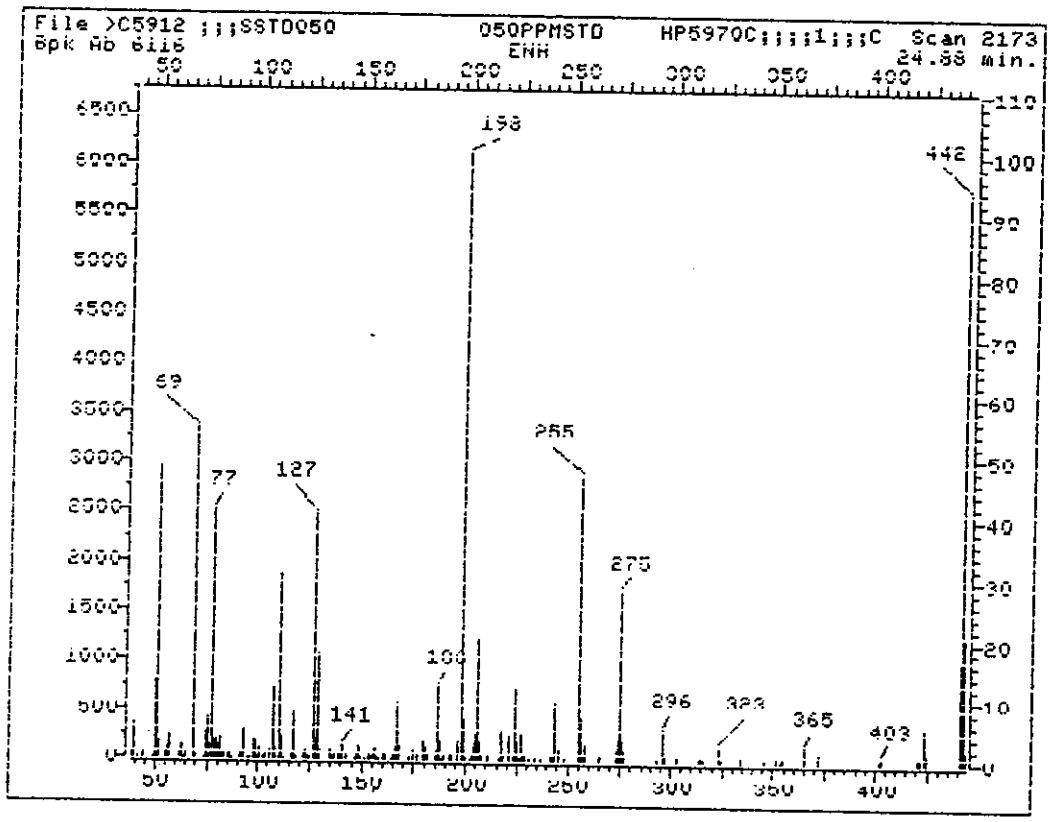
Chromatographic temperatures :	40.	290.	0.	0.	...	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0		0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5		0.0



MS data file header from : >C5912

Sample: ;;;SSTD050 Operator: MSC MS 2/01/93 12:16
Misc : 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: 1A ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	40.	250.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0



MS data file header from : >C5912

0547

Sample: ;;;SSTD050 Operator: MSC MS 2/01/93 12:16
Misc : 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: 1A ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures : 40. 250. 0. 0. 0.
Chromatographic times, min. : 4.0 23.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 10.0 0.0 0.0 .5 .. 0.0

>C5912 ;;;SSTD050 050PPMSTD HP5970C;;;;1;;;C0952
2173 NRM ENH

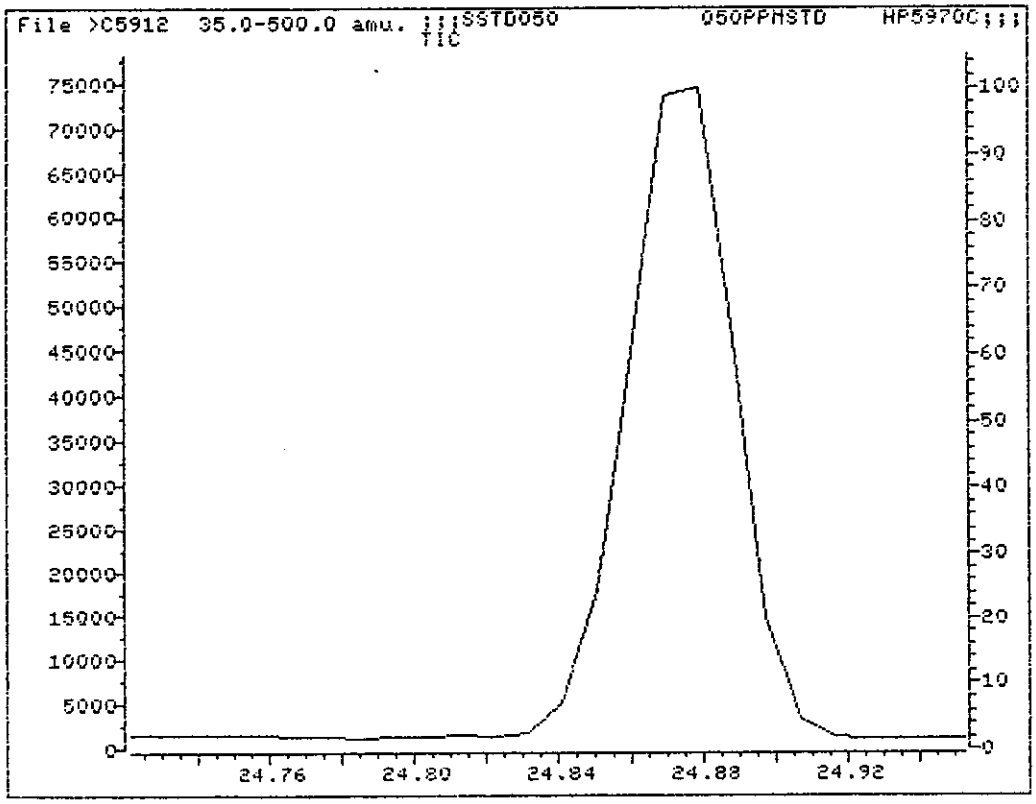
File: >C5912 Scan #: 2173 Retn. time: 24.88

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.00	.957	95.00	.110	147.00	1.157	200.00	.343	264.95	.899
39.10	5.772	96.00	.139	147.90	1.995	201.50	.135	273.00	1.660
41.10	.204	98.00	2.972	149.00	.307	203.00	.609	274.00	3.843
44.00	.830	95.00	3.013	151.10	.188	204.00	2.808	275.00	28.064
45.05	.176	99.95	.249	152.95	.826	205.00	4.309	275.90	3.450
50.05	13.192	100.95	1.639	153.95	.482	206.05	20.264	277.00	1.762
51.05	48.173	103.05	.466	155.05	1.026	207.05	2.902	293.05	.298
52.05	2.747	104.05	1.108	155.95	1.729	207.95	.564	295.95	5.363
55.05	.781	105.05	1.329	157.05	.266	210.15	.159	296.95	.818
55.95	1.623	107.05	11.724	157.85	.139	210.95	.691	303.00	.642
57.05	3.794	108.05	1.639	159.95	.597	215.95	.454	313.95	.225
62.00	.932	110.05	30.643	161.05	.928	216.95	5.151	314.95	.728
63.00	2.302	111.05	3.761	164.15	.110	218.05	.638	315.95	.245
64.00	.147	112.05	.200	165.05	.834	221.00	4.223	323.05	2.428
65.10	1.006	116.00	.801	166.00	2.187	223.00	1.104	323.95	.315
69.00	54.301	116.90	7.784	167.00	8.357	224.00	11.831	334.00	1.153
69.90	.290	118.00	.429	168.00	2.490	225.00	3.033	345.95	.405
73.10	.204	122.00	.863	173.10	.347	226.00	.217	351.90	.650
73.95	4.317	123.00	1.251	174.10	.695	227.00	4.382	353.00	.172
74.95	6.782	124.00	.486	175.00	1.431	228.00	.646	354.10	.756
75.95	2.342	125.00	.433	176.90	.711	228.90	.903	364.85	2.665
77.05	40.957	126.95	40.299	178.00	3.009	231.00	.319	371.95	1.308
78.05	3.074	127.95	3.344	179.95	1.999	233.95	.225	401.85	.454
78.95	3.213	128.95	17.570	180.95	.957	236.95	.266	402.05	.143
79.95	2.310	129.95	1.271	184.95	1.384	242.05	.736	402.95	.879
80.95	3.426	135.05	1.386	186.05	12.006	243.05	.585	420.95	.687
81.95	.728	136.05	.405	186.95	3.127	244.05	9.513	421.95	.576
82.95	.801	137.05	.719	187.95	.127	245.05	1.427	422.95	5.695
84.95	.580	139.05	1.206	188.95	.711	246.00	1.836	423.95	1.214
85.95	.887	140.00	1.002	192.05	.838	248.90	.225	441.00	16.969
87.00	.200	140.90	2.240	193.00	1.018	255.00	46.799	442.00	93.983
90.90	.928	142.00	.789	196.00	3.001	256.00	7.072	443.00	21.139
92.00	.789	142.90	.437	197.90	100.000	257.00	.544	443.95	2.081
93.00	5.016	146.00	.155	198.90	8.806	258.00	2.719		

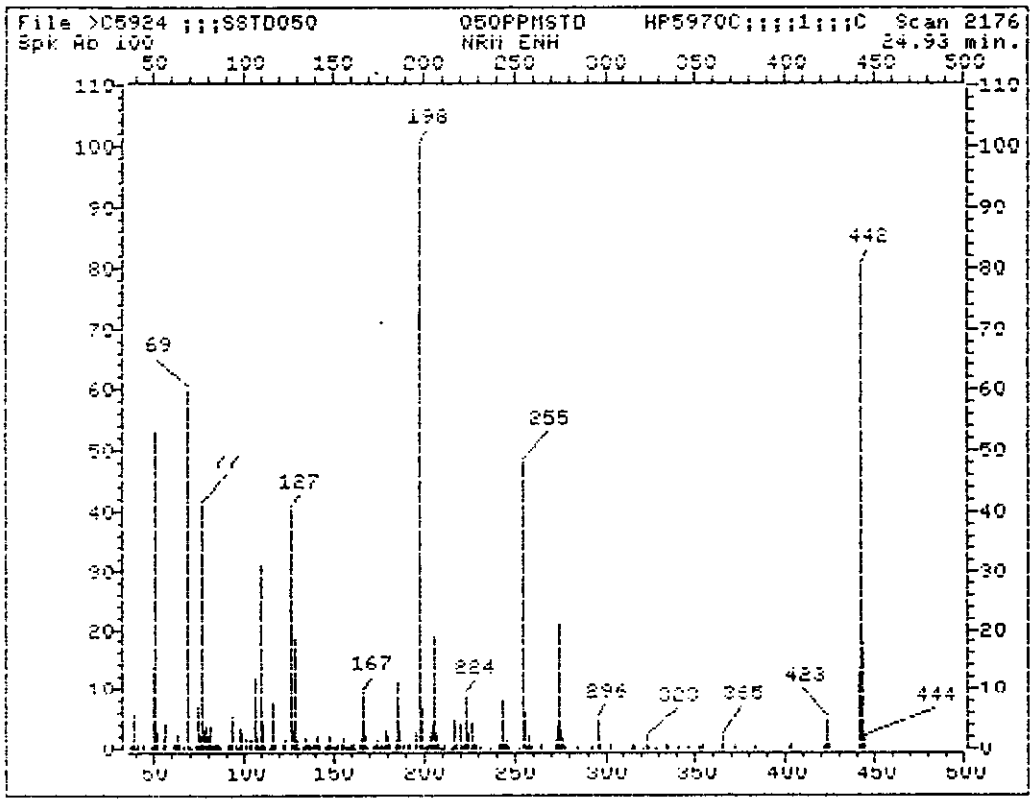
MS data file header from : >C5912

Sample: ;;;SSTD050 Operator: MSC MS 2/01/93 12:16
Misc : 050PPMSTD HP5970C;;;;1;;;C0952 BTL#98
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0



```
          You're already on LU: 58
          You're already on LU: 58

MS data file header from : >C5924

Sample: ;;;SSTD050              Operator: MSC        MS          2/02/93 11:18
Misc  : 050PPMSTD    HP5970C;;;;1;;;C0953                      BTL#58
Sys. #:     1  MS model:  70  SW/HW rev.: 1A  ALS # :  0
  Method file: M_C        Tuning file: T_C      No. of extra records:  2
 Source temp.:    0   Analyzer temp.:  280     Transfer line temp. :   0

      Chromatographic temperatures :  40.   280.     0.     0.     0.
      Chromatographic times, min.  :  4.0   23.0    0.0    0.0    0.0
      Chromatographic rate, deg/min: 10.0    0.0    0.0     .5    0.0
```



>C5924 ;;;SSTD050 050PPMSTD HP5970C;;;;;;;;C0953
2176 NRM ENH

02/02/93 11:18

0 0550

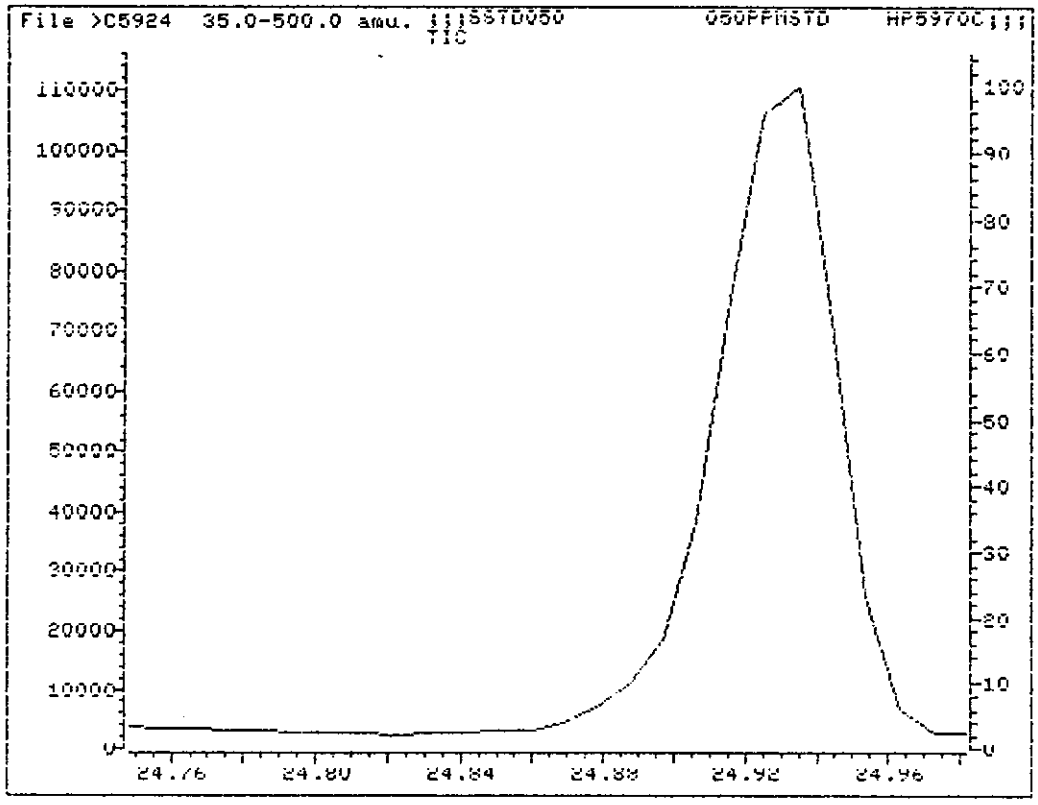
File: >C5924 Scan #: 2176 Retn. time: 24.93

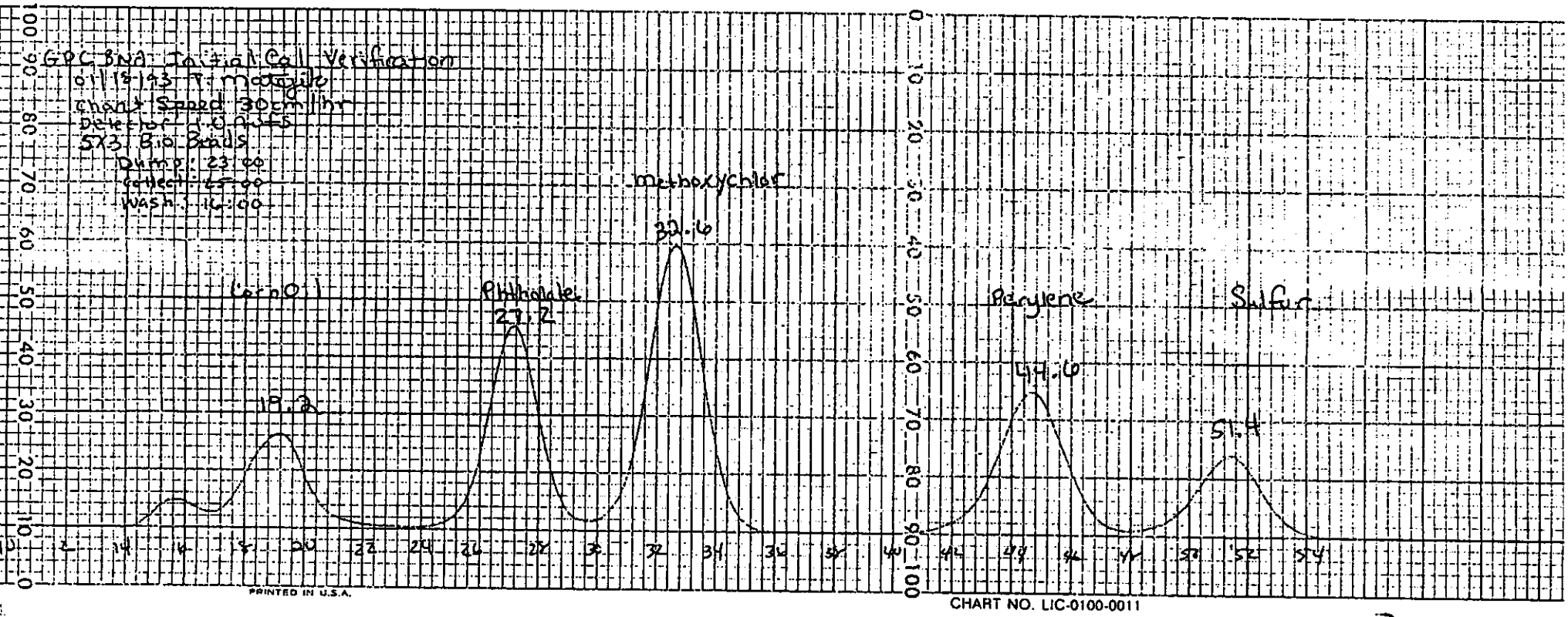
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	.212	95.10	.587	148.00	1.946	200.00	.332	270.00	1.418
38.00	1.014	96.10	.204	149.00	.511	201.50	.435	274.00	3.720
39.10	5.880	97.10	.152	150.00	.391	203.00	.590	275.00	20.883
40.10	.106	98.00	3.399	151.00	.283	204.00	2.734	276.00	3.018
41.10	.927	99.00	2.883	151.70	.106	205.00	4.258	276.90	1.630
44.00	1.079	100.95	1.734	152.95	.780	205.95	18.954	277.90	.215
48.95	.302	103.05	.584	155.05	1.054	207.05	2.815	284.95	.239
50.05	13.891	103.95	1.220	155.95	1.630	207.95	.766	292.95	.345
51.05	53.147	104.95	1.364	157.05	.231	209.05	.168	295.95	4.859
52.05	2.761	107.05	11.772	157.95	.372	209.85	.084	296.95	.679
55.05	1.158	107.95	1.823	158.95	.313	210.95	.793	303.00	.622
56.05	1.853	109.05	.258	159.95	.587	214.95	.087	314.05	.092
56.95	4.144	110.05	31.016	160.95	1.068	216.05	.391	314.95	.584
61.00	.832	110.95	3.970	161.95	.103	216.95	5.212	315.95	.310
62.00	.758	112.05	.476	165.05	.973	217.95	.633	320.95	.082
63.10	2.342	114.90	.168	166.00	1.859	220.90	4.065	322.95	1.625
65.00	1.128	116.00	.802	167.00	9.359	221.60	.313	323.95	.318
67.00	.380	117.00	7.851	168.00	2.454	223.00	1.111	326.90	.152
69.00	59.924	118.00	.568	169.00	.329	224.00	8.929	327.90	.062
70.00	.503	121.90	.943	172.00	.274	225.00	2.685	334.00	1.054
70.60	.065	123.00	1.467	173.00	.389	226.10	.185	335.00	.236
70.90	.062	124.00	.408	174.00	.880	227.00	4.315	340.85	.215
73.10	.647	126.95	40.160	175.00	1.421	227.90	.658	345.95	.391
73.95	4.092	127.95	3.177	176.00	.337	229.00	.984	351.90	.465
74.95	6.989	128.95	18.554	177.00	.897	231.10	.283	352.90	.266
75.95	2.348	129.95	1.394	178.00	.323	236.95	.204	354.00	.630
76.95	40.954	130.95	.126	178.90	3.111	242.05	.709	364.85	2.054
78.05	2.948	133.95	.527	179.95	1.943	243.05	.571	371.95	.584
78.95	3.842	135.05	1.603	180.95	.946	243.95	8.141	382.90	.226
79.95	2.391	136.05	.655	185.05	1.272	245.05	.995	401.95	.351
81.05	3.761	137.05	.652	185.95	11.236	246.00	1.323	403.05	.707
82.05	.810	138.05	.511	186.95	2.965	246.90	.299	420.95	.500
83.05	.870	139.05	1.011	188.95	.622	252.90	.196	421.95	.568
85.05	.728	140.10	.935	191.05	.258	255.00	47.921	422.95	5.003
85.95	.872	140.90	2.133	191.95	.842	255.90	6.188	423.95	1.024
87.00	.454	142.00	.739	193.00	.929	257.00	.446	440.90	13.408
91.00	1.198	142.90	.503	196.00	2.802	258.00	2.435	441.90	80.242
91.90	1.046	145.90	.266	197.90	100.000	258.95	.242	443.00	17.793
93.00	5.274	147.00	1.103	198.90	6.717	264.95	.804	443.95	1.579

MS data file header from : >C5924

Sample: ;;;SSTD050 Operator: MSC MS 2/02/93 11:18
Misc : 050PPMSTD HP5970C;;;;1;;;C0353 BTL#58
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: M_C Tuning file: T_C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 250 Transfer line temp. : 0

Chromatographic temperatures :	40.	250.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0




GPC 3N4 Initial Cal Verification
01/19/93 T-modified
Chart Speed 30cm/hr
Detector 1.0 nms
5X3 B.0 Bands
Pump: 23.00
Collect: 45.00
Wash: 16.00
Methoxychlor
32.6
Perylene
Sulfur
47.6
51.4
Phthalate
27.2
18.2
PRINTED IN U.S.A.
CHART NO. LIC-0100-0011

0552

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0 0553 | SBLK51

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK51

Lab Name: IEA/CT Contract: 0554

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

amc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	~~28~~ 330	~~J~~ U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	19	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	5	J
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	28	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

amc 2/11/93

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK51

Lab Name: IEA/CT Contract: 0555

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.64	13000	JA
2.		UNKNOWN	7.91	1200	J
3.		↓	8.14	910	↓
4.	625865	FURAN, 2,5-DIMETHYL-	5.04	730	JN
5.		UNKNOWN	10.25	500	J
6.		UNKNOWN HYDROCARBON	8.33	390	↓
7.	4436753	3-HEXENE-2,5-DIONE	10.92	370	JN
8.		UNKNOWN ACID	20.81	360 ~~370~~	J
9.	110861	PYRIDINE	5.97	220	JN
10.	4127173	3-PENTEN-2-ONE, 4-METHYL-	7.40	200	JN
11.	3404782	2-HEXENE, 2,5-DIMETHYL-	7.50	140	JN
12.		UNKNOWN	35.30	140	J
13.	7116861	1-HEXENE, 5,5-DIMETHYL-	12.25	98	JN
14.		~~1-HEXENE, 5~~ UNKNOWN HYDROCARBON	12.96	94	J
15.		UNKNOWN ALKANE	9.09	84	↓
16.		UNKNOWN	10.13	84	
17.		UNKNOWN ALKANE	9.21	83	
18.		UNKNOWN	35.83	81	
19.		↓	7.08	77	
20.			11.76	67	↓
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

0556

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930129 13:57
Output File: ^C5902::QT Injected at: 930129 12:06
Data File: >C5902::C2 Dilution Factor: 16.67000
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2

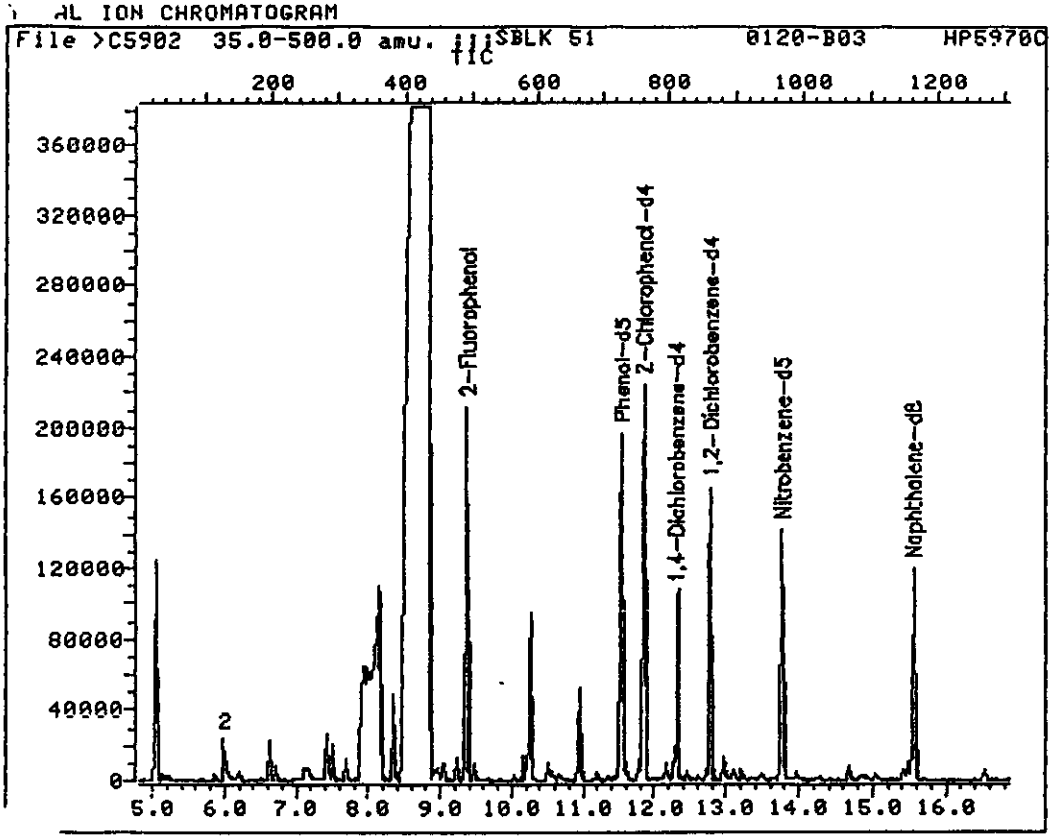
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.30	151.8	32178	40.00	ug	98
2)	Pyridine	5.98	52.0	18648	273.99	ug	84
3)	2-Chlorophenol-d4	11.84	132.0	109657	1810.55	ug	95
4)	2-Fluorophenol	9.36	111.8	98817	1611.89	ug	87
5)	Phenol-d5	11.53	98.8	148757	1892.13	ug	85
11)	1,2-Dichlorobenzene-d4	12.78	152.0	51743	1149.84	ug	92
18)	*Naphthalene-d8	15.55	135.9	128738	40.00	ug	97
19)	Nitrobenzene-d5	13.77	81.8	96989	1180.33	ug	83
32)	*Acenaphthene-d10	20.23	163.9	81641	40.00	ug	95
36)	2-Fluorobiphenyl	18.44	171.8	161085	1102.78	ug	92
~~41)~~	~~4-Nitrophenol~~	~~20.88~~	~~109.0~~	~~137~~	~~6.81~~	~~ug~~	~~40~~
~~46)~~	~~Diethylphthalate~~	~~21.47~~	~~149.0~~	~~4960~~	~~27.66~~	~~ug~~	~~98~~
52)	2,4,6-Tribromophenol	22.34	329.6	70812	2106.88	ug	70
53)	*Phenanthrene-d10	24.12	187.9	150352	40.00	ug	96
62)	Di-n-butylphthalate	25.75	149.0	5924	18.67	ug	99
64)	*Chrysene-d12	31.51	240.0	113972	40.00	ug	98
66)	Terphenyl-d14	28.38	244.0	238301	1373.89	ug	97
67)	Butylbenzylphthalate	29.74	149.0	559	4.70	ug	99
71)	bis(2-Ethylhexyl)phthalate	31.65	149.0	4198	27.52	ug	85
72)	*Perylene-d12	38.59	264.0	86078	40.00	ug	88
~~73)~~	~~Di-n-octylphthalate~~	~~34.38~~	~~149.0~~	~~1544~~	~~6.36~~	~~ug~~	~~95~~

* Compound is ISTD

Conc 2/9/93

AL ION CHROMATOGRAM

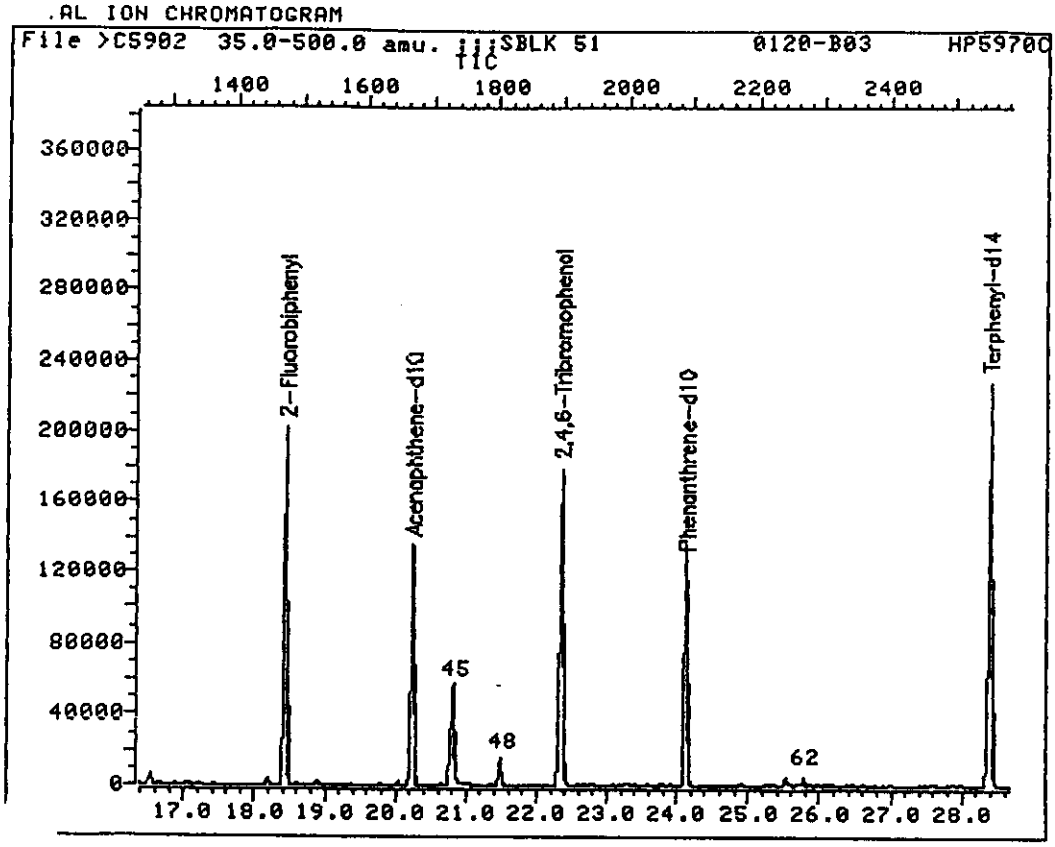


Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 13:57
Injected at: 930129 12:06

TIC page 1 of 4



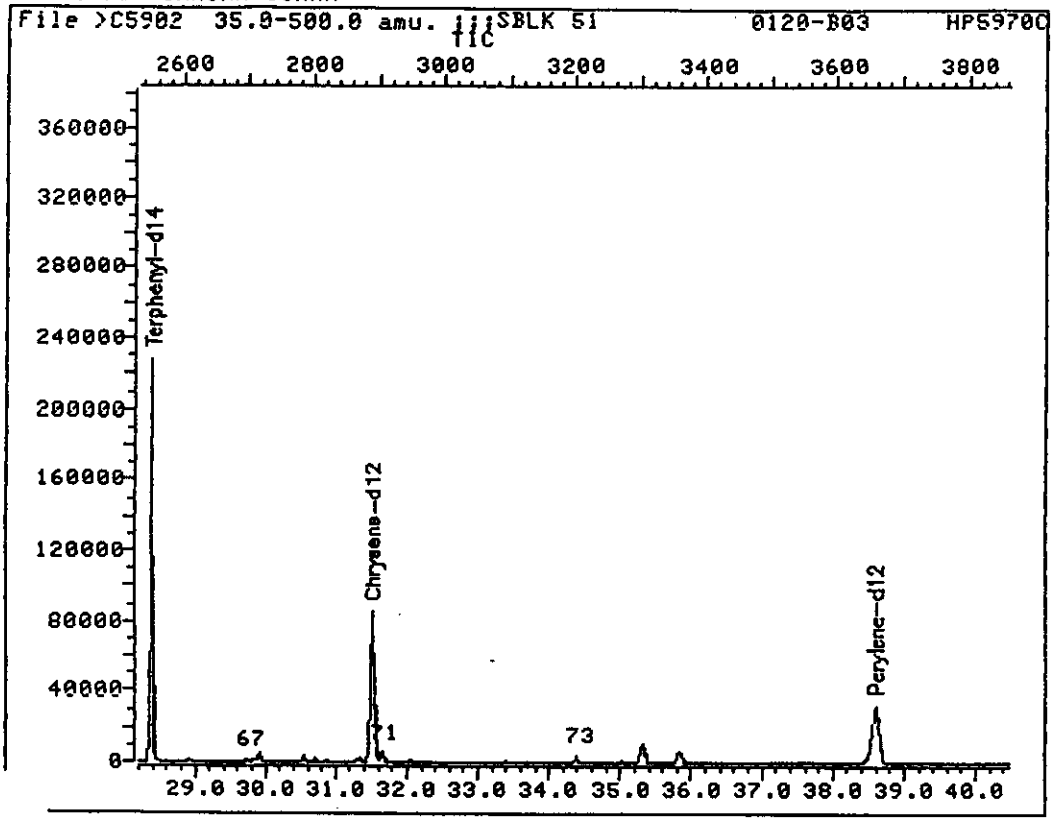
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 13:57
Injected at: 930129 12:06

TIC page 2 of 4

TOTAL ION CHROMATOGRAM



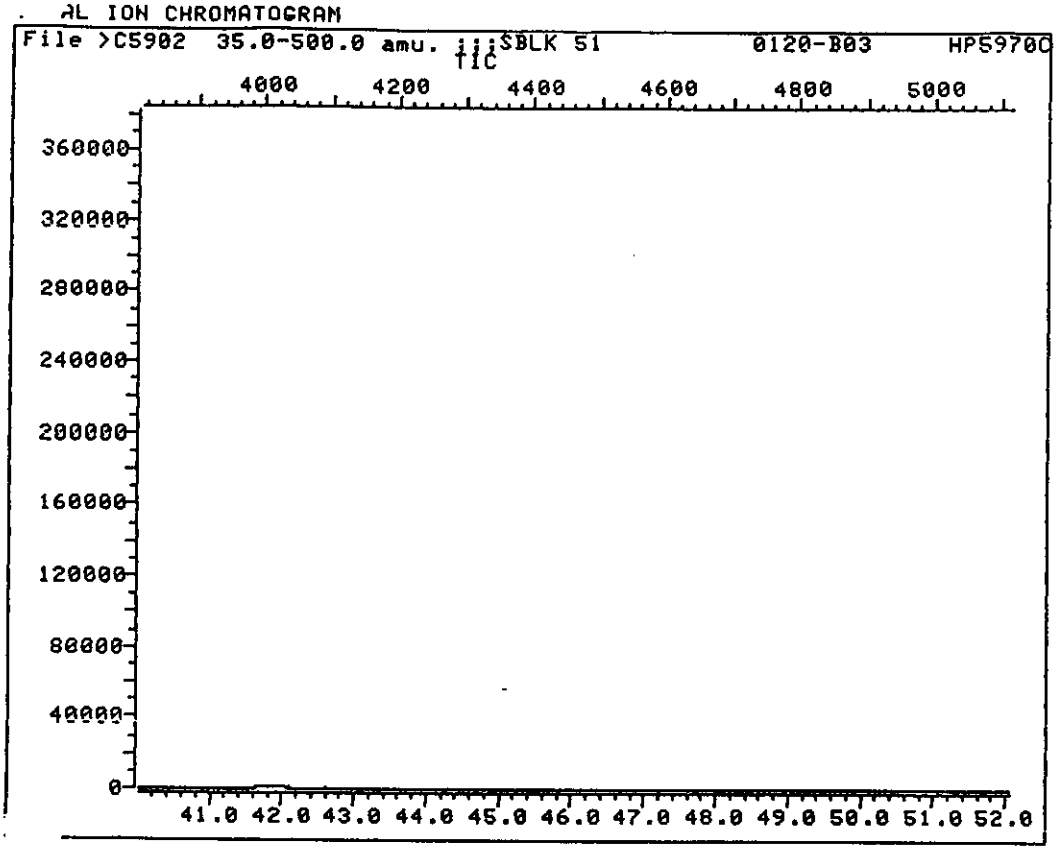
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 13:57
Injected at: 930129 12:06

TIC page 3 of 4

AL ION CHROMATOGRAM



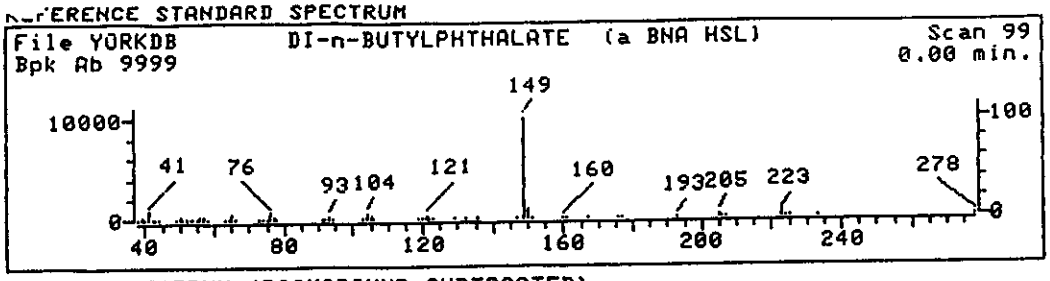
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

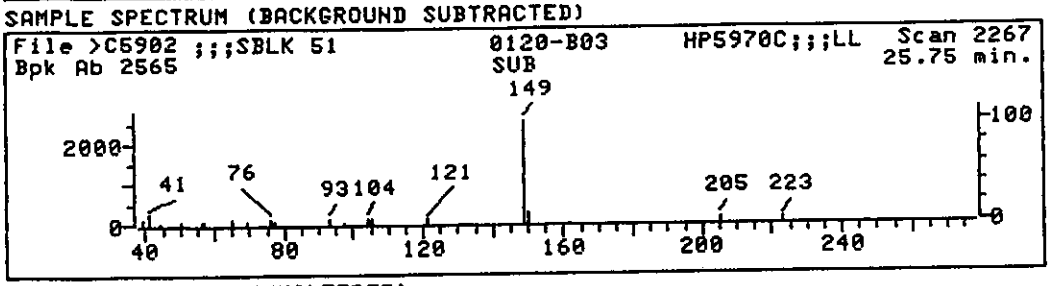
Operator ID: MSC
Quant Time: 930129 13:57
Injected at: 930129 12:06

TIC page 4 of 4

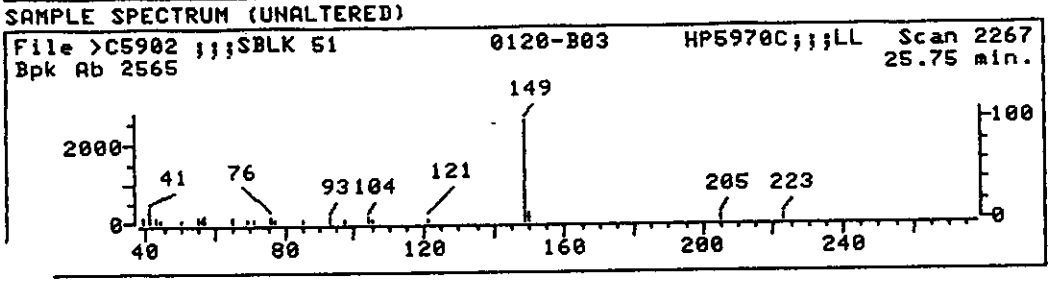
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



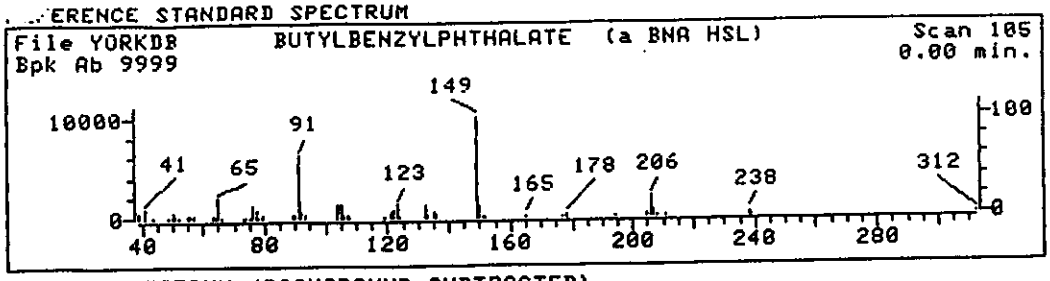
SAMPLE SPECTRUM (UNALTERED)



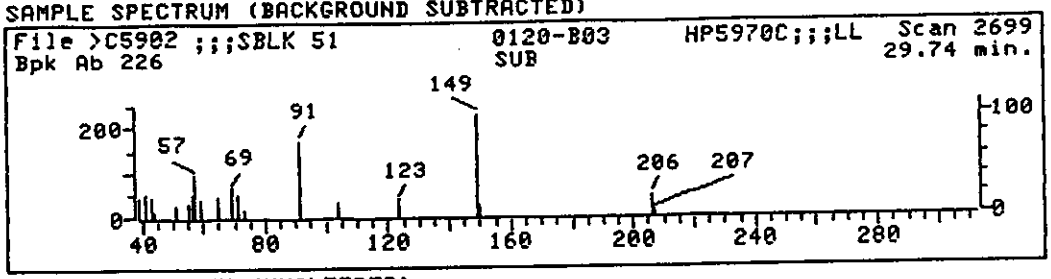
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2
Quant Time: 930129 13:57 Quant ID File: I_EPA::N1
Injected at: 930129 12:06 Last Calibration: 930129 11:12

Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2267
Retention Time: 25.75 min.
Quant Ion: 148.8
Area: 5924
Concentration: 18.67 ug
q-value: 99

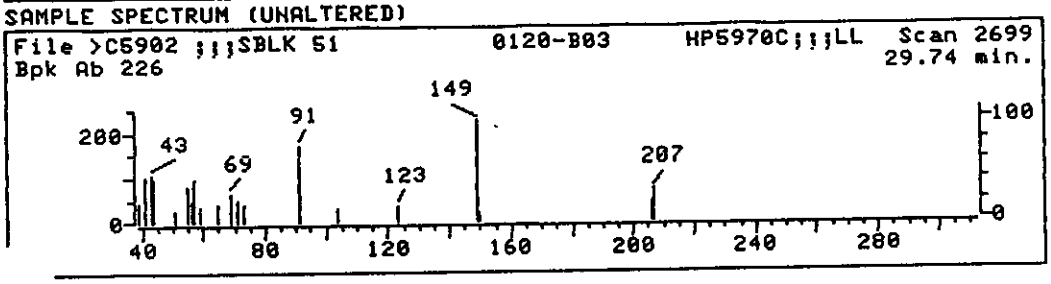
..ERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



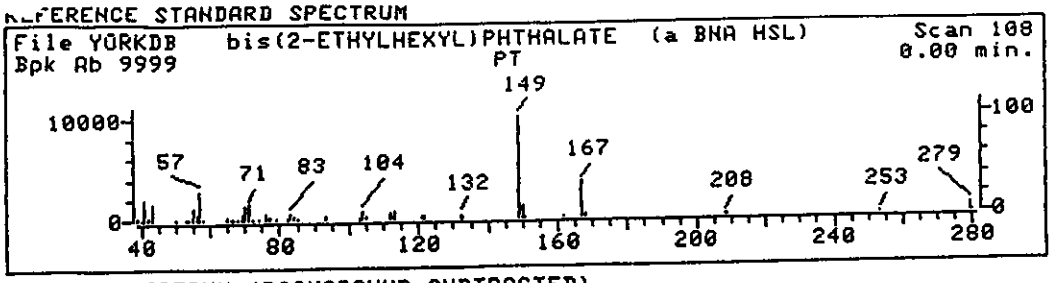
SAMPLE SPECTRUM (UNALTERED)



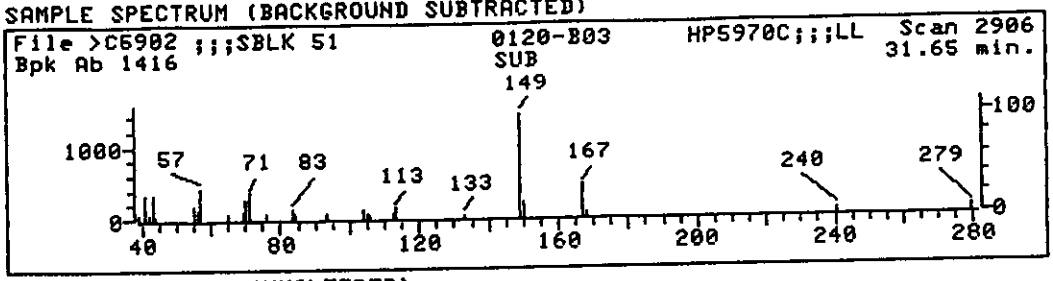
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2
Quant Time: 930129 13:57 Quant ID File: I_EPA::N1
Injected at: 930129 12:06 Last Calibration: 930129 11:12

Compound No: 67
Compound Name: Butylbenzylphthalate
Scan Number: 2699
Retention Time: 29.74 min.
Quant Ion: 148.8
Area: 559
Concentration: 4.70 ug
q-value: 99

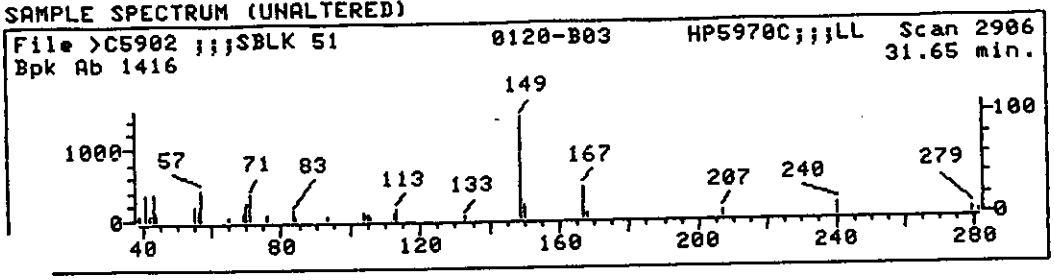
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



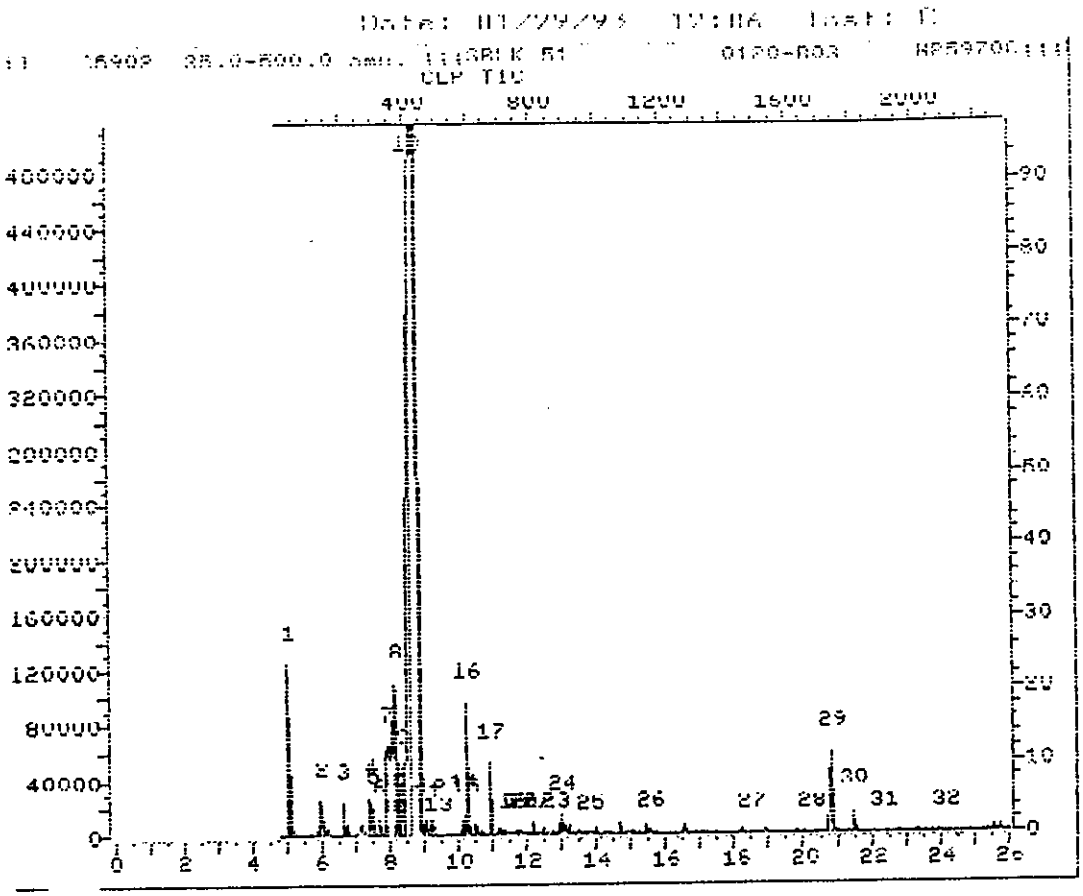
Data File: >C5902::C2 Quant Output File: ^C5902::QT
Name: ;;;SBLK 51
Misc: 0120-B03 HP5970C;;;LLW;1;;;C0951 BTL# 2
Quant Time: 930129 13:57 Quant ID File: I_EPA::N1
Injected at: 930129 12:06 Last Calibration: 930129 11:12

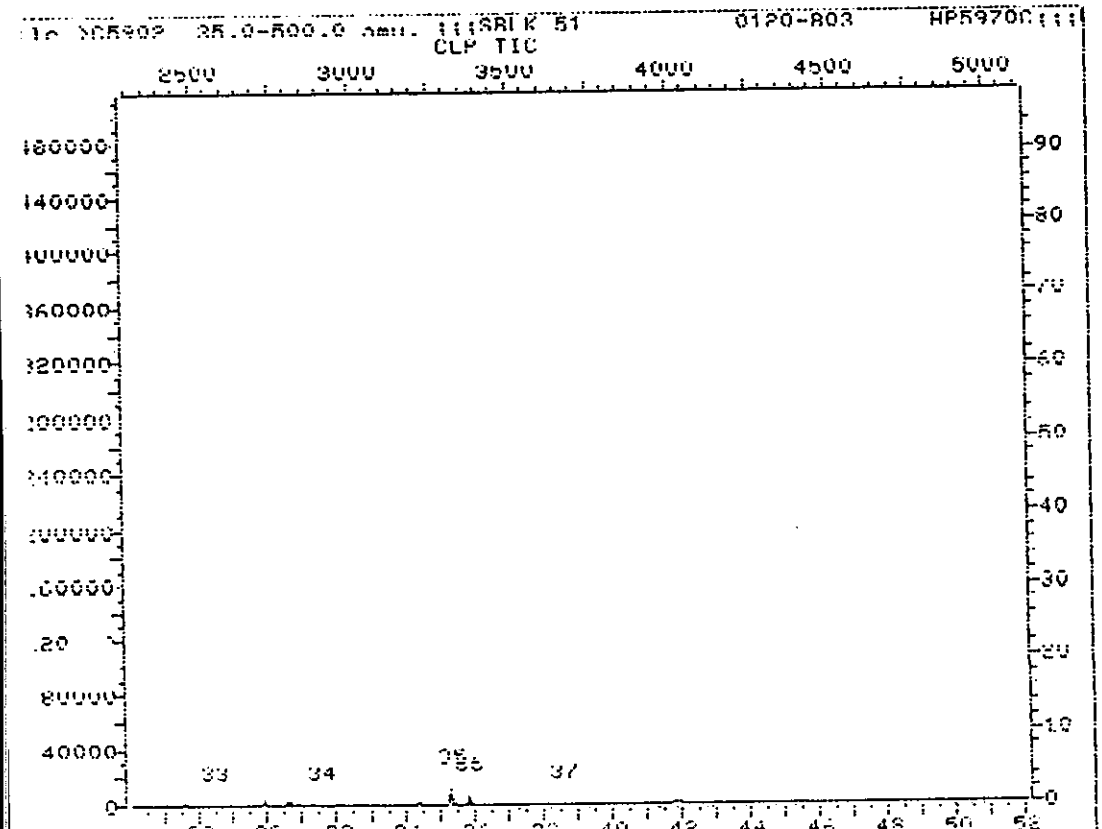
Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2906
Retention Time: 31.65 min.
Quant Ion: 148.8
Area: 4198
Concentration: 27.52 ug
q-value: 85

MS data file header from : >1599U2

Sample: ;;;SBLK 51 Operator: MSC MS 1/29/93 12:06
Misc : 01211-BU3 HP5972U;;;1 1W;1;;;1U0951 BTI # 2
Sys. #: 1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M U Tuning file: T U No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0


CLP TIC
400
800
1200
1600
2000
400000
360000
320000
160000
120000
80000
40000
0
90
80
70
60
50
40
30
20
10
0
1
2
3
16
17
24
25
26
27
28
29
30
31
32
0
2
4
6
8
10
12
14
16
18
20
22
24


CLP TIC
2500
3000
3500
4000
4500
5000
140000
90
80
70
60
50
40
30
20
10
0
33
34
35
36
37

SBUK51
HPS9702566

Date: 01/29/93 17:16 Inst: C

TIC PEAK REPORT

Pk#	R.T.	Total Area	Fst Conc.	Assoc ISTD	DF
10.	8.64	3864560.	13000.	1.	16.67
2.	2.91	364823.	1200.	1.	16.67
8.	8.14	277424.	910.	1.	16.67
1.	5.04	221787.	730.	1.	16.67
16.	10.25	169962.	560.	1.	16.67
9.	8.33	119219.	390.	1.	16.67
17.	10.92	113514.	370.	1.	16.67
29.	20.81	195837.	360.	3.	16.67
2.	5.92	66347.	220.	1.	16.67
4.	7.40	61112.	200.	1.	16.67
5.	7.50	41496.	140.	1.	16.67
~~3.~~	~~6.60~~	~~43183.~~	~~140.~~	~~1.~~	~~16.67~~ VOA
25.	25.30	44818.	140.	6.	16.67
21.	12.25	29854.	98.	1.	16.67
24.	12.96	28693.	94.	1.	16.67
11.	9.04	25629.	84.	1.	16.67
14.	10.13	25524.	84.	1.	16.67
12.	9.21	25414.	83.	1.	16.67
26.	25.83	25883.	81.	6.	16.67
6.	7.68	23353.	77.	1.	16.67
~~15~~	~~10.91~~	~~21203.~~	~~70.~~	~~1.~~	~~16.67~~ VOA
1	11.76	20397.	67.	1.	16.67

INTERNAL STD AREA REPORT

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.31	203205.	0.00	13.93	6.3
NAPHTHALENE-D8	15.56	280769.	13.93	17.89	2.2
ACENAPHTHENE-D10	20.22	361507.	17.89	22.17	4.4
PHENANTHRENE-D10	24.13	381039.	22.17	27.82	2.5
CHRYSENE-D12	31.51	298304.	27.82	35.05	2.6
PERYLENE-D12	38.59	212532.	35.05	38.59	2.5

ISTD peaks found:	6
Surrogate peaks found:	8
Quant target peaks expected:	6
Target peaks matched:	1
Total TIC identified:	22

TICS : 3:53 PM THU., 4 FEB., 1993

:r interpret this parameter... Perhaps you have mistyped
thi un string or have forgotten the order of the run string.

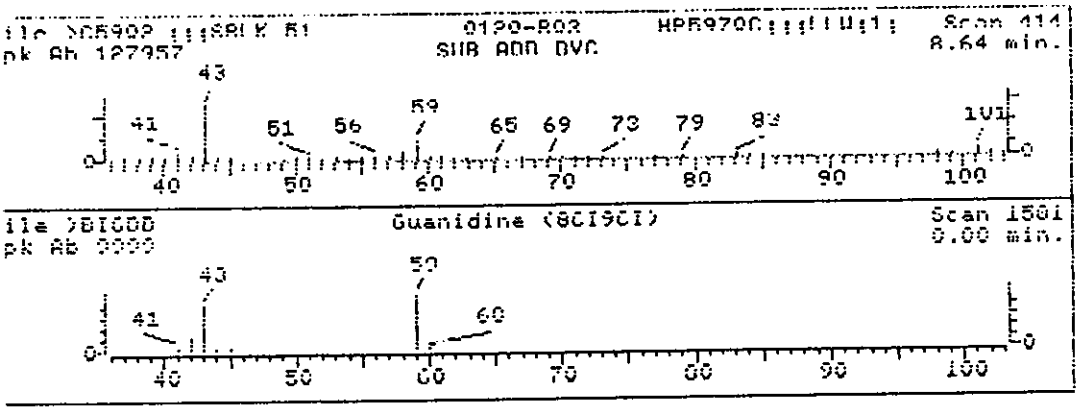
RPN error for command: RSR63
RPN error: -5
id record length RSR

1. Guanidine (8CI,9CI) 59 CH5N3

Sample file: >C5902 Spectrum #: 414
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	11*	113008	1581	"BIGDR	20	34	0	0	25	64	2			15

Peak#: 10 Area: 3864560. Est Conc: 13000. Date: 01/29/93 12:06 Inst: C



to interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

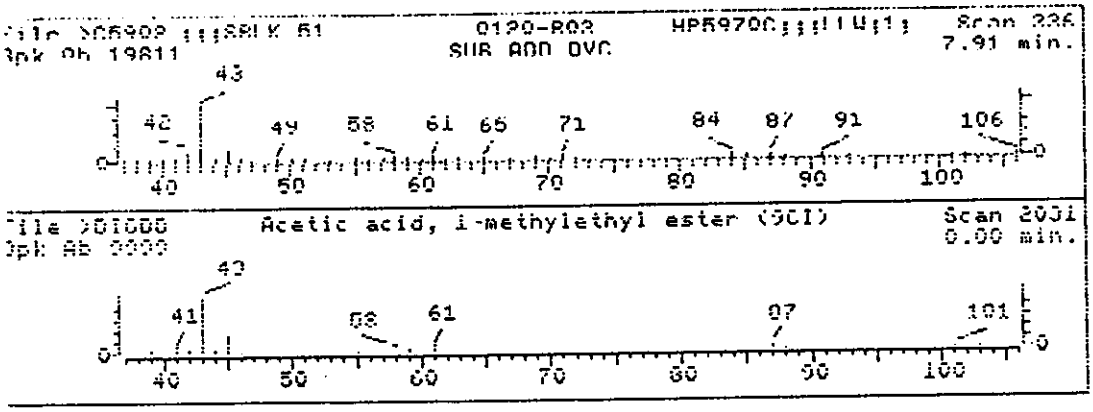
RPN error for command: RSF63
RPN error: -5
Ad record length RSF

1. Acetic acid, 1-methylethyl ester (9CI) 102 C5H10O2

Sample file: >C5902 Spectrum #: 336
Search speed: 3 Tilting option: S No. of ion ranges searched: 60

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IU
1.	24	108214	2131	"BIGDR	33	31	1	0	44	43	8			12

Peak#: 7 Area: 364023. Est Conc: 1200. Date: 01/29/93 12:06 Inst: C



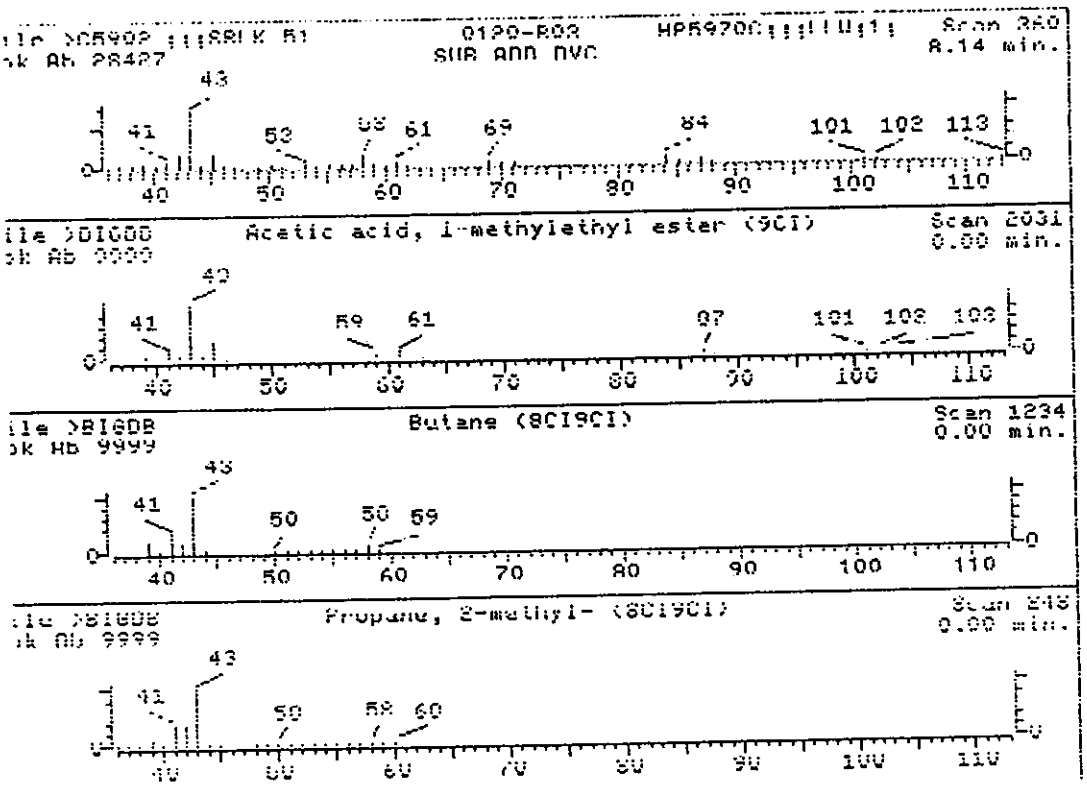
:H cord length 999

1.	Acetic acid, 1-methylethyl ester (9CI)	102 C5H10O2
2.	Butane (8CI,9CI)	58 C4H10
3.	Propane, 2-methyl- (8CI,9CI)	58 C4H10
4.	1,3-Dioxolane, 2-methyl- (8CI,9CI)	88 C4H8O2

Sample File: >D59IB2 Spectrum #: 360
Search speed: 3 Tilting option: S No. of ion ranges searched: 58

	Prob.	CAS #	CON #	NAME	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	37	108214	2031	"BIGDB	41	58	2	0	73	26	14			14
2.	27*	106978	1234	"BIGDB	28	59	2	0	1000	36	10			13
3.	25*	75285	248	"BIGDB	25	44	2	0	100	46	7			14
4.	15*	497267	1335	"BIGDB	26	47	2	0	43	60	3			14

Peak#: 8 Area: 277424. Est Conc: 910. Date: 01/29/93 12:06 Inst: C



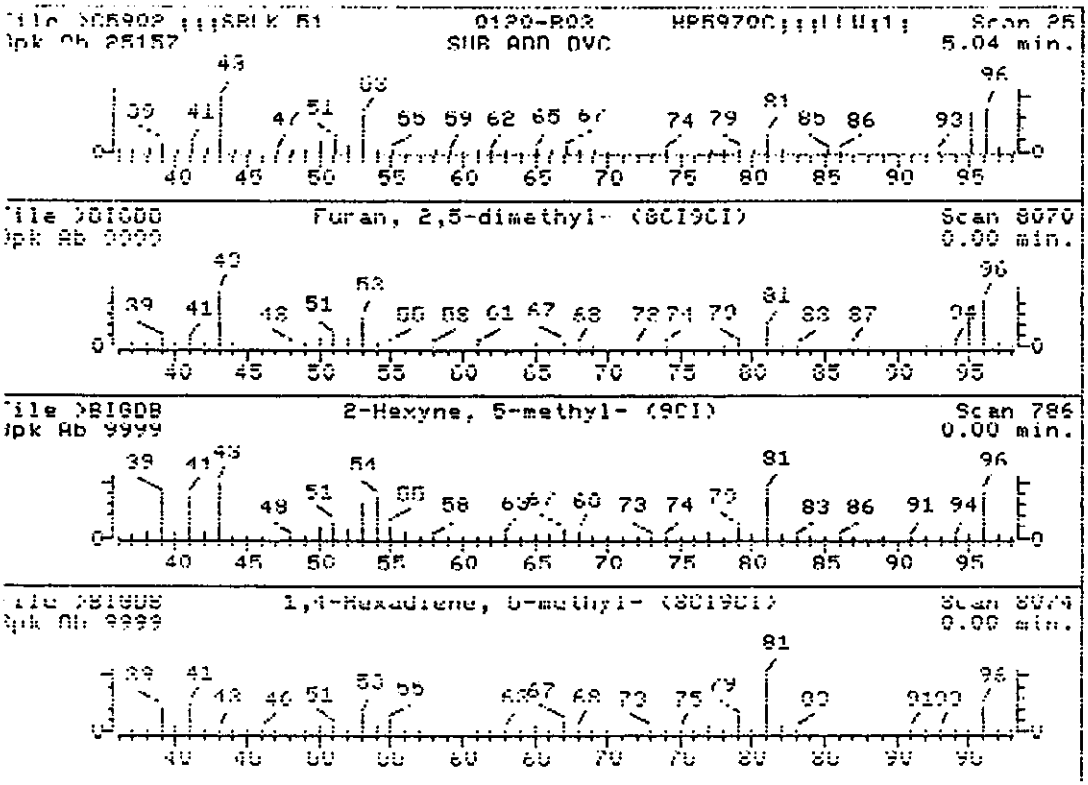
Std Cord length RSP

1. Furan, 2,5-dimethyl- (8CI,9CI) 96 C6H8O
2. 2-Hexyne, 5-methyl- (9CI) 96 C7H12
3. 1,4-Hexadiene, 5-methyl- (8CI,9CI) 96 C7H12
4. 1H-Pyrazole, 1,3-dimethyl- (9CI) 96 C5H8N2

Sample File: >I59HV Spectrum #: 25
Search speed: 3 Tilting option: S No. of ion ranges searched: 55

	Prob.	CAS #	CON #	RIDT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	89*	625865	8070	"BIGDB	64	46	1	0	74	1	66	63		
2.	36*	55566573	786	"BIGDB	26	92	3	0	92	30	14	13		
3.	35*	763882	8074	"BIGDB	22	84	3	0	182	30	14	12		
4.	31*	694484	8173	"BIGDB	28	66	3	0	79	33	12	13		

Peak#: 1 Area: 221787. Est Conc: 730. Date: 01/29/93 12:06 Inst: C



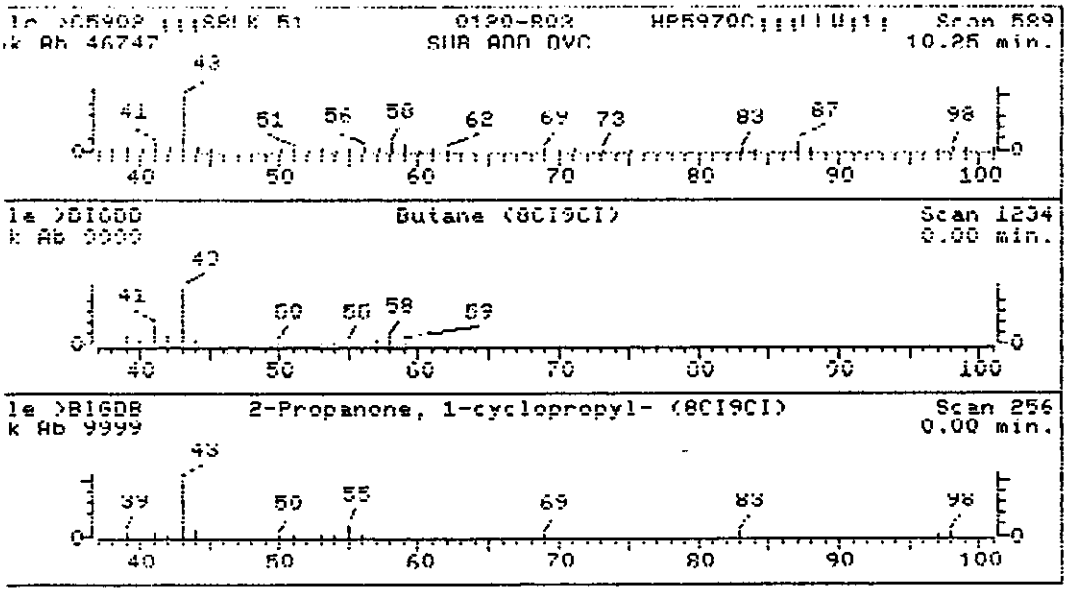
RPN: error for command: RNF63
RPN error: -5
id record length RNF

1. Butane (8CI9CI) 58 C4H10
2. 2-Propanone, 1-cyclopropyl- (8CI9CI) 98 C6H10O

Sample file: >C59102 Spectrum #: 589
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CIN #	NAME	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	36*	106978	1234	"BIGDB	20	59	2	0	100	29	14		13	
2.	30*	4160752	256	"BIGDB	21	44	2	0	100	33	12		13	

Peak#: 16 Area: 169967. Est Conc: 560. Date: 01/29/93 12:06 Inst: C



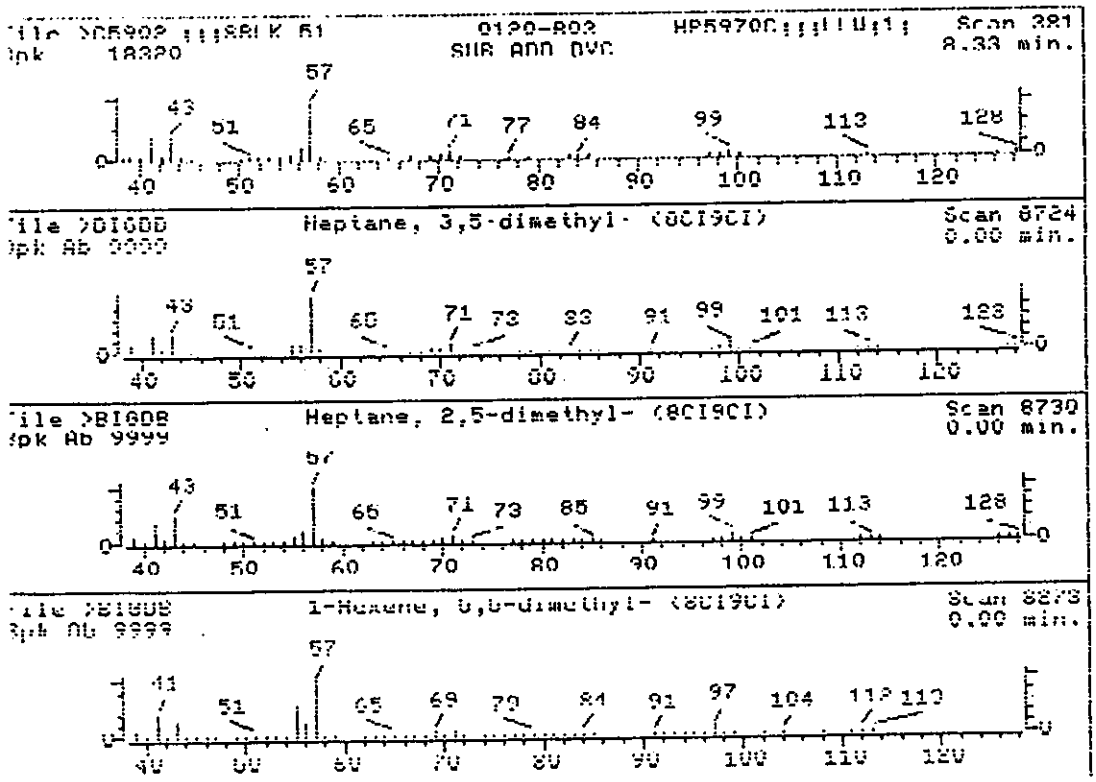
ad nard length RSF

1.	Heptane, 3,5-dimethyl- (8CI9CI)	128 C9H20
2.	Heptane, 2,5-dimethyl- (8CI9CI)	128 C9H20
3.	1-Hexene, 5,5-dimethyl- (8CI9CI)	112 C8H16
4.	Heptane, 2,3,5-trimethyl- (8CI9CI)	142 C10H22

Sample File: >C59102 Spectrum #: 381
Search speed: 3 Tilting option: S No. of ion ranges searched: 61

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	89*	926829	8724	"BIGDB	59	23	0	0	67	4	66			28
2.	24*	22163111	8730	"BIGDB	63	23	0	0	56	38	28			28
3.	20	7116861	8273	"BIGDB	38	45	2	0	25	10	42			13
4.	20	20278857	1203	"BIGDB	46	30	2	0	26	10	42			15

Peak#: 9 Area: 119219. Est Conc: 390. Date: 01/29/93 12:06 Inst: C



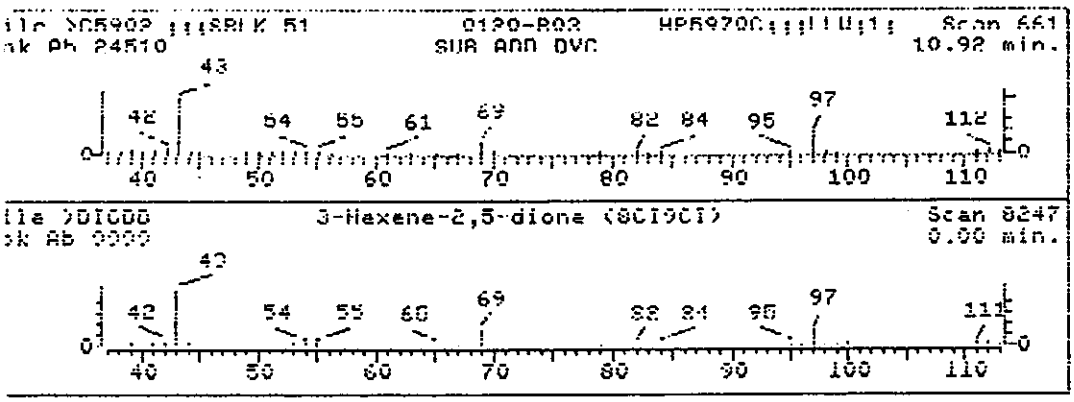
```
Ca    interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.


 RPN error for command: RSF63
 RPN error:  -5
ad record length RSF
```

1. 3-Hexene-2,5-dione (8CI9CI) 112 C6H8O2

Sample file: >C5902 Spectrum #: 661
Search speed: 3 Tilting option: S No. of inn ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	OK	#FIG	TILT	%	CON	C	I	R	IV
1.	61*	4436/53	8247	"RIGOR	28	54	3	0	100	13	30			13

Peak#: 17 Area: 113514. Est Conc: 370. Date: 01/29/93 12:06 Inst: C



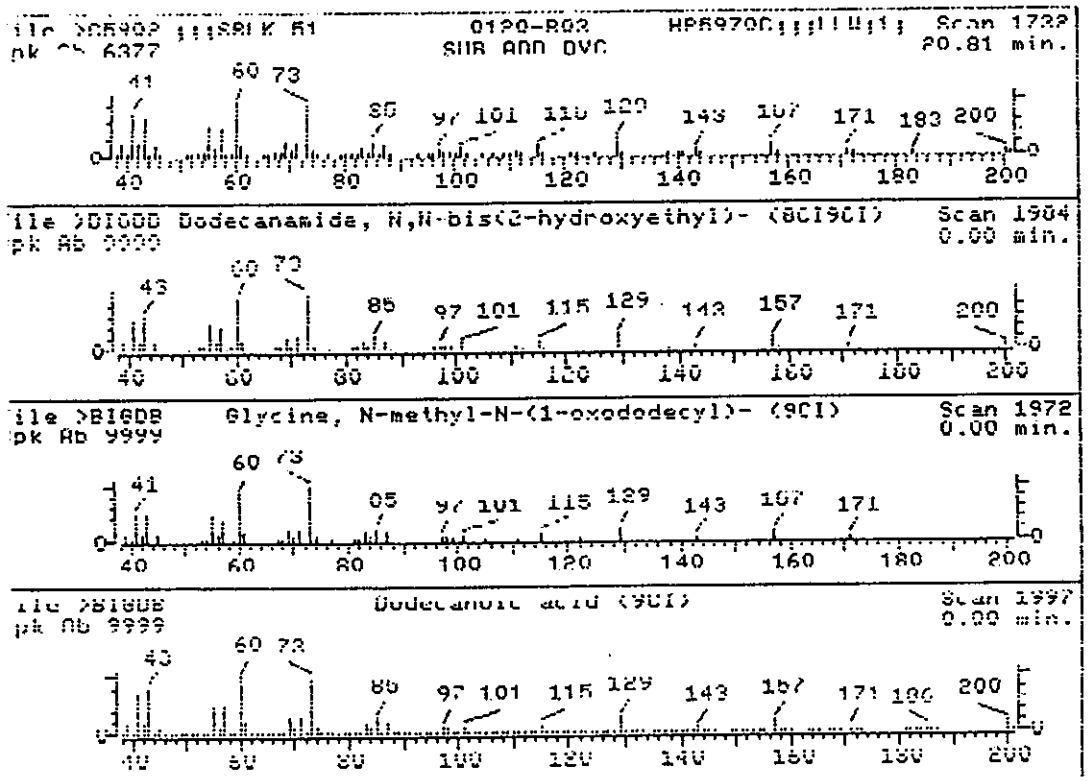
nd coord length RSF

1.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI,9CI)	287 C16H33NO3
2.	Glycine, N-methyl-N-(1-oxododecyl)- (9CI)	271 C15H29NO3
3.	Dodecanoic acid (9CI)	200 C12H24O2
4.	Octanoic acid (8CI,9CI)	144 C8H16O2

Sample File: >DC5902 Spectrum #: 1732
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	95	120401	1984	"BIGDB	152	1	0	0	91	4	72	95		
2.	86	97289	1972	"BIGDB	121	29	1	0	113	6	59	74		
3.	83	143077	1997	"BIGDB	95	43	2	0	86	4	57	29		
4.	47*	124072	1907	"BIGDB	59	45	1	1	100	42	16	44		

Peak#: 29 Area: 195837. Est Conc: 360. Date: 01/29/93 12:06 Inst: C



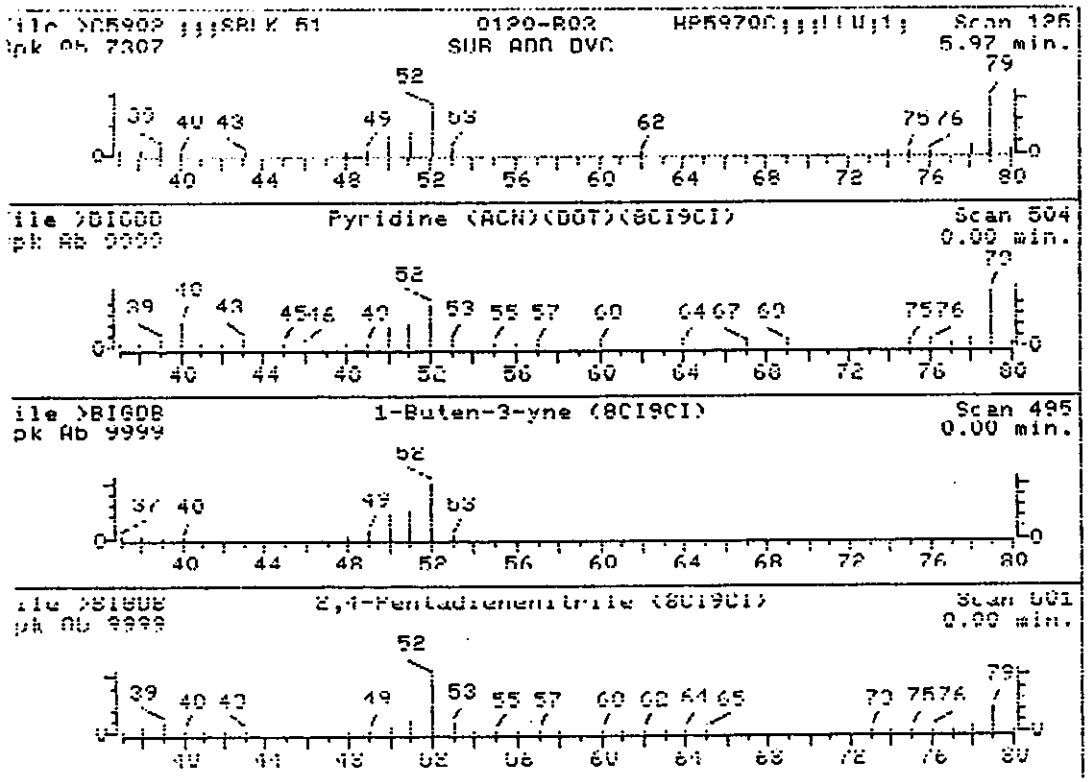
F error for command: RSF63
R.. error: -5
Bad record length RSF

1.	Pyridine (ACN)(DOT)(8CI9CI)	79 C5H5N
2.	1-Buten-3-yne (8CI9CI)	52 C4H4
3.	2,4-Pentadienenitrile (8CI9CI)	79 C5H5N

Sample file: >C5902 Spectrum #: 125
Search speed: 3 Tilting option: S No. of ion ranges searched: 54

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	74*	110861	5114	"BIGDB	69	43	2	0	86	14	39	49		
2.	66*	689974	495	"BIGDB	59	49	0	0	55	18	31	45		
3.	28*	1615709	5011	"BIGDB	27	29	2	0	83	36	10	14		

Peak#: 2 Area: 66947. Est Conc: 220. Date: 01/29/93 12:06 Inst: C

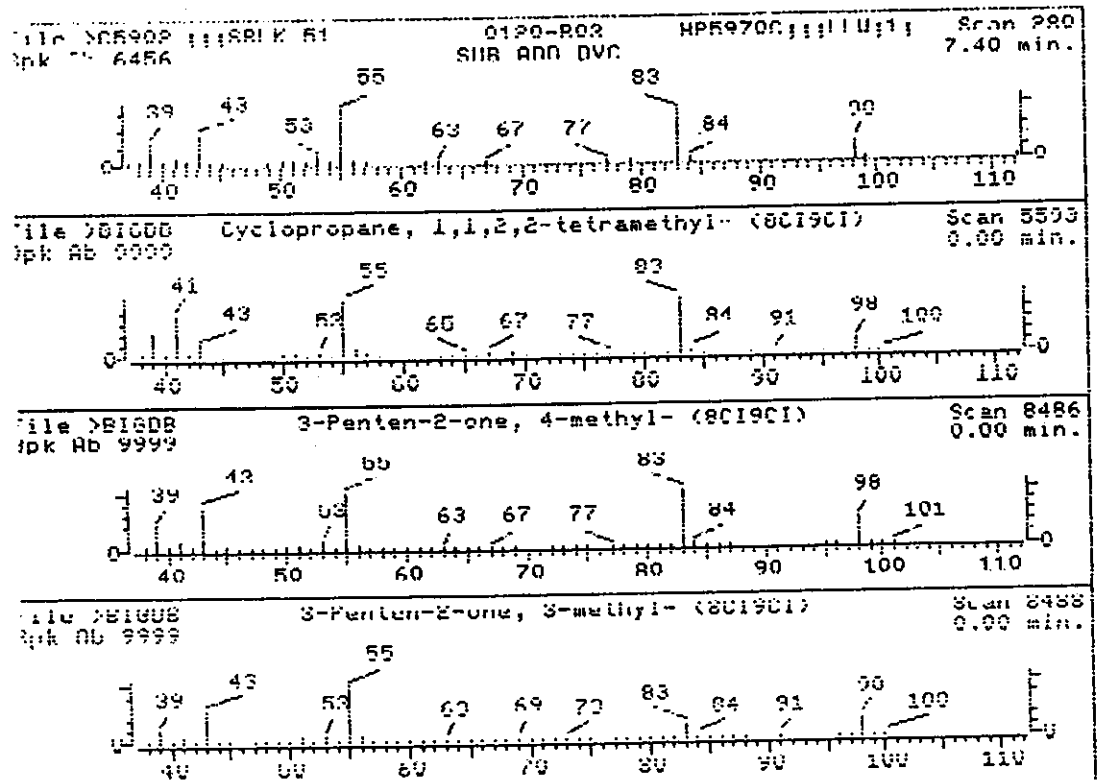


1.	Cyclopropane, 1,1,2,2-tetramethyl- (8C19CI)	98 C7H14
2.	3-Penten-2-one, 4-methyl- (8C19CI)	98 C6H10O
3.	3-Penten-2-one, 3-methyl- (8C19CI)	98 C6H10O
4.	3-Hexen-2-one (8C19CI)	98 C6H10O

Sample File: >C59902 Spectrum #: 280
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	85*	4127473	5593	"BIGDB	52	45	2	0	92	3	57	28		
2.	71*	141797	8486	"BIGDB	62	36	1	0	61	26	29	60		
3.	64*	565628	8488	"BIGDB	62	30	0	0	74	46	20	74		
4.	59*	763939	5591	"BIGDB	45	38	0	0	85	36	21	57		

Peak#: 4 Area: 61112. Est Conc: 200. Date: 01/29/93 12:06 Inst: C



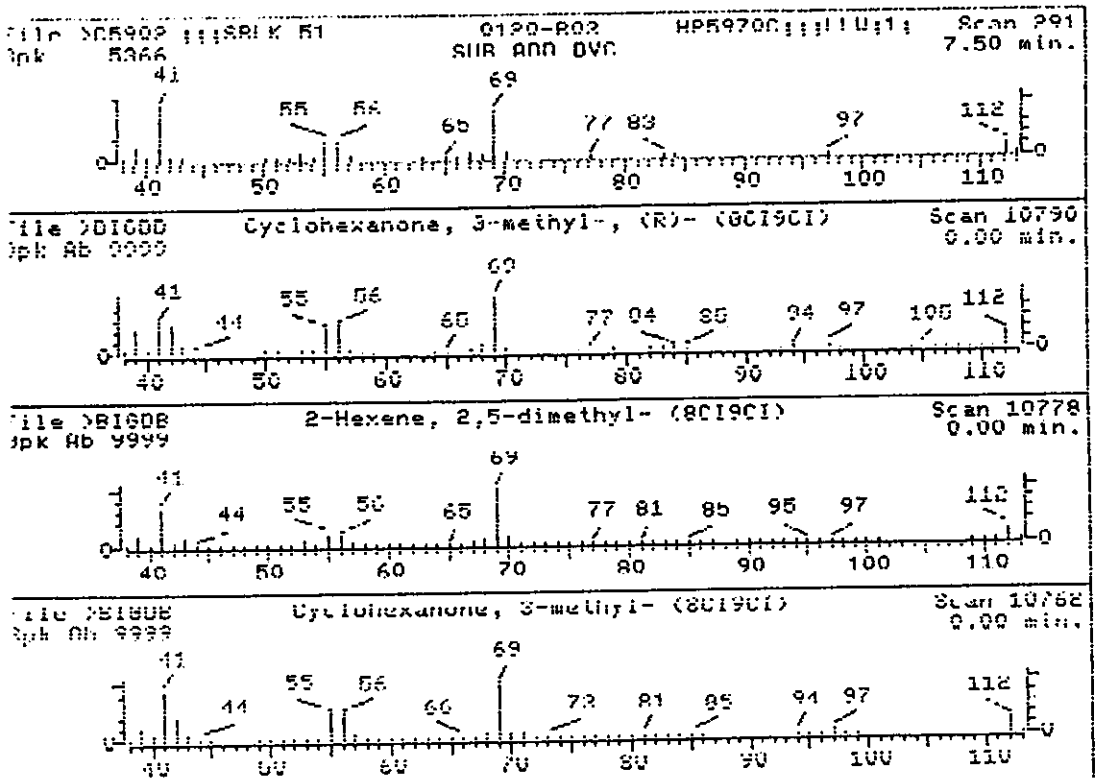
ad card length RSP

1.	Cyclohexanone, 3-methyl-, (R)- (8CI9CI)	112 C7H12O
2.	2-Hexene, 2,5-dimethyl- (8CI9CI)	112 C8H16
3.	Cyclohexanone, 3-methyl- (8CI9CI)	112 C7H12O
4.	5-Hexen-2-one, 5-methyl- (8CI9CI)	112 C7H12O

Sample File: >C5902 Spectrum #: 291
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	NAME	K	DK	#PLG	TILT	%	CON	C	I	R	IV
1.	76*	13368655	10790	"BIGDB	51	55	2	0	65	10	45		25	
2.	58*	3404782	10778	"BIGDB	43	47	2	0	74	20	25		23	
3.	52*	591242	10762	"BIGDB	37	64	2	0	67	20	20		14	
4.	52*	3240193	8967	"BIGDB	25	53	3	0	255	20	20		13	

Peak#: 5 Area: 41496. Est Conc: 140. Date: 01/29/93 12:06 Inst: C



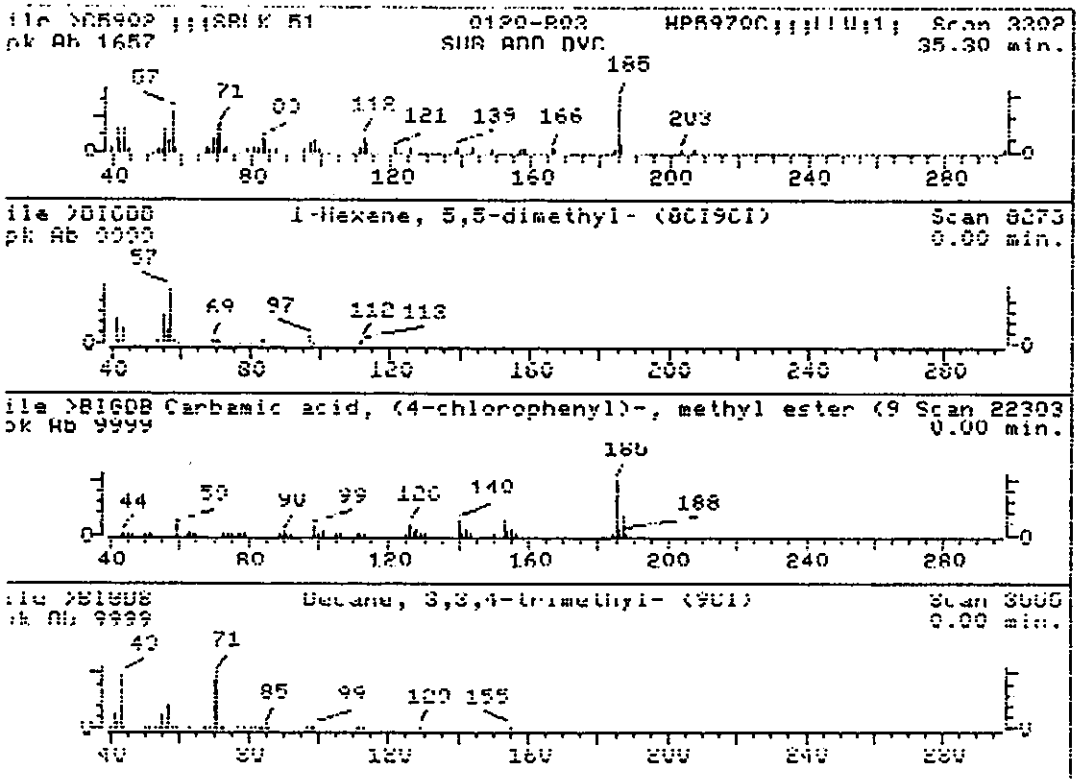
R" error for command: RSEA3
R. error: -5
ad record length RSF

1. 1-Hexene, 5,5-dimethyl- (8CI9CI) 112 C8H16
2. Carbamic acid, (4-chlorophenyl)-, methyl ester (9CI) 185 C8H8ClNO2
3. Decane, 3,3,4-trimethyl- (9CI) 184 C13H28

Sample file: >C59112 Spectrum #: 3312
Search speed: 3 Tilting option: S No. of ion ranges searched: 58

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	21*	2116861	8273	"BIGDB	43	40	0	-1	88	58	5			38
2.	15*	940363	22303	"BIGDB	29	97	3	0	100	57	3			13
3.	11	49622186	3555	"BIGDB	31	48	0	0	44	63	2			17

Peak#: 35 Area: 44818. Est Conc: 140. Date: 01/29/93 12:06 Inst: C



...a interpret this parameter... Perhaps you have mistyped
...he run string or have forgotten the order of the run string.

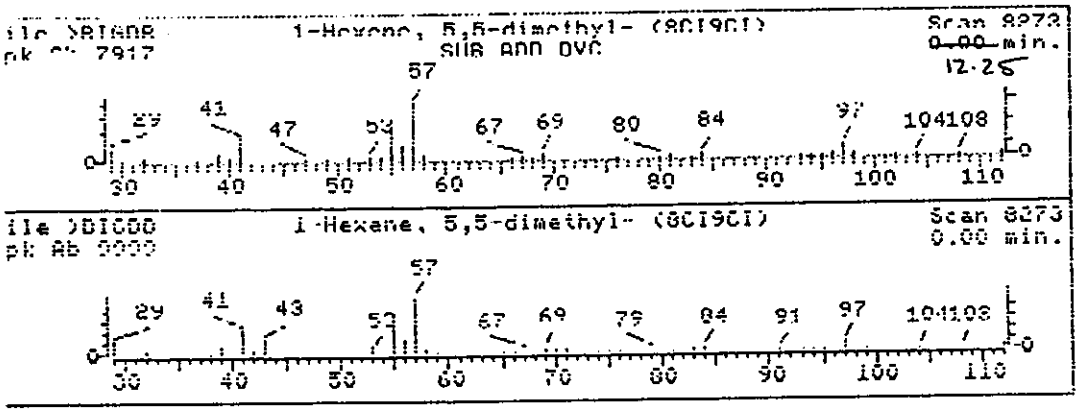
RPN error for command: RSF63
RPN error: -5
...id record length RSF

1. 1-Hexene, 5,5-dimethyl- (8CI9CI) 112 C8H16

Sample file: >BIGDB Spectrum #: 8273
Search speed: 3 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	89*	7116861	8273	"BIGDB	69	14	2	0	87	1	66	60		

Peak#: 21 Area: 29854. Est Conc: 98. Date: 01/29/93 12:06 Inst: C



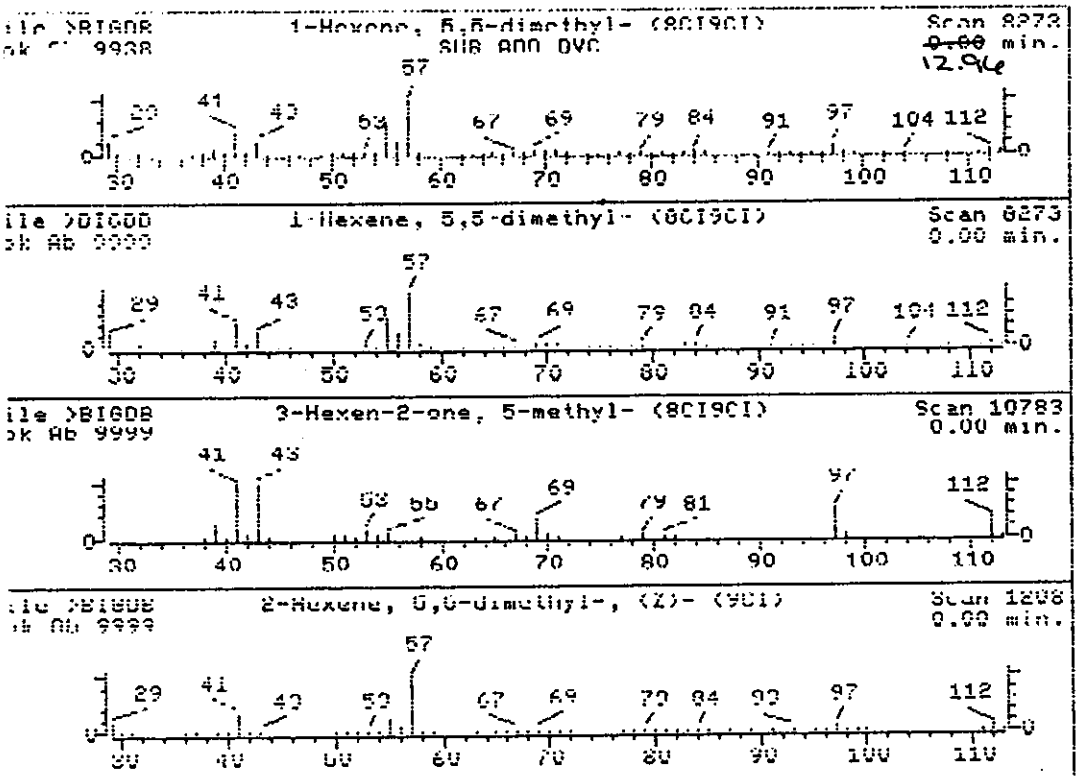
rd card length RNF

1.	1-Hexene, 5,5-dimethyl- (8CI9CI)	112 C8H16
2.	3-Hexen-2-one, 5-methyl- (8CI9CI)	112 C7H12O
3.	2-Hexene, 5,5-dimethyl-, (Z)- (9CI)	112 C8H16
4.	Pentane, 3-ethyl-2,2-dimethyl- (8CI9CI)	128 C9H20

Sample File: >BIGDB Spectrum #: 8273
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IO
1.	97*	7116861	8273	"BIGDB	83	0	0	0	90	3	72			97
2.	62*	51665310	10783	"BIGDB	39	20	0	1	14	27	25			40
3.	52	39761610	1208	"BIGDB	42	32	2	0	100	16	20			14
4.	15	16747323	971	"BIGDB	25	39	0	0	32	60	3			12

Peak#: 24 Area: 28693. Est Conc: 94. Date: 01/29/93 12:16 Inst: C



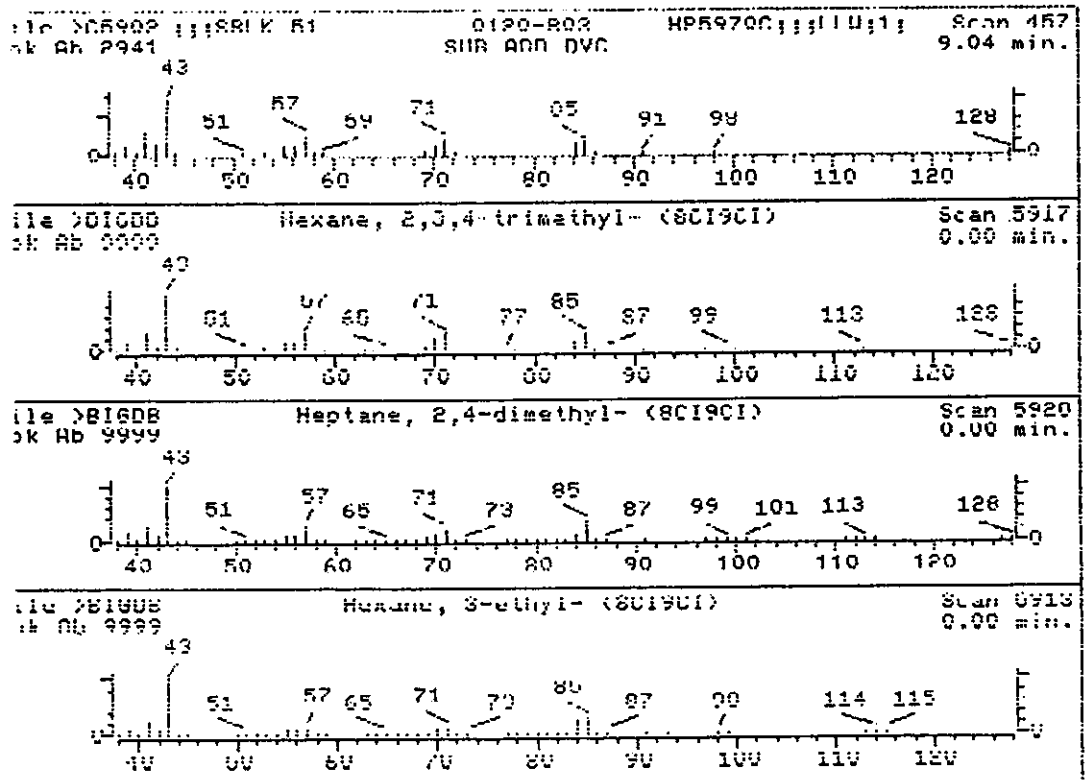
d cord length RRF

1.	Hexane, 2,3,4-trimethyl- (8CI9CI)	128 C9H20
2.	Heptane, 2,4-dimethyl- (8CI9CI)	128 C9H20
3.	Hexane, 3-ethyl- (8CI9CI)	114 C8H18
4.	Heptane, 2,3-dimethyl- (8CI9CI)	128 C9H20

Sample File: >C5902 Spectrum #: 457
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	86*	921471	5917	"BIGDB	50	40	1	0	69	3	60			39
2.	71*	2213232	5920	"BIGDB	50	42	2	0	100	15	38			31
3.	60	619998	5913	"BIGDB	42	48	1	0	70	14	30			15
4.	58*	3074213	5924	"BIGDB	42	49	2	0	83	20	25			22

Peak#: 11 Area: 25629. Est Conc: 84. Date: 01/29/93 12:06 Inst: C



RF 115

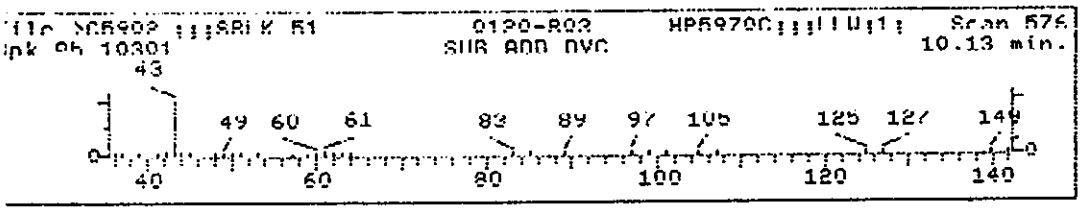
Can't interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
ad record length RSF

Sample file: >C5902 Spectrum #: 576

No data base entries were retrieved.

Peak#: 14 Area: 25524. Est Conc: 84. Date: 01/29/93 12:06 Inst: C



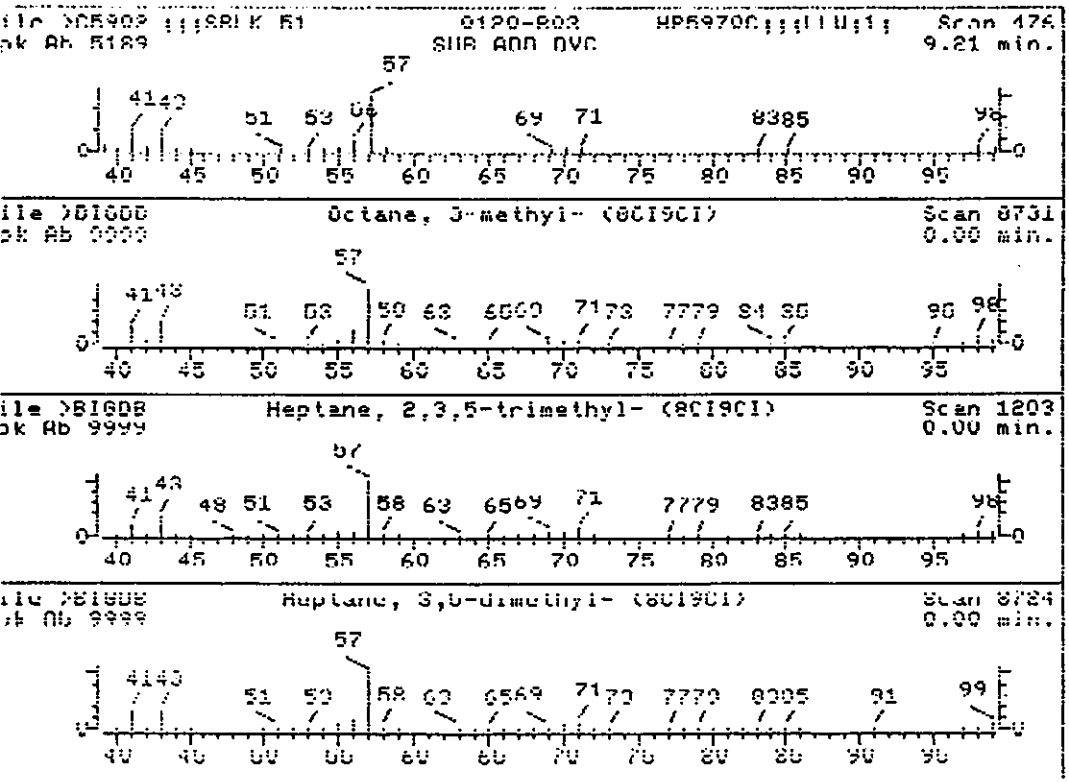
.d cord length RSF

1. Octane, 3-methyl- (8CI9CI) 128 C9H20
2. Heptane, 2,3,5-trimethyl- (8CI9CI) 142 C10H22
3. Heptane, 3,5-dimethyl- (8CI9CI) 128 C9H20
4. Undecane, 6-methyl- (8CI9CI) 170 C12H26

Sample file: >C59U2 Spectrum #: 476
Search speed: 3 Tilting option: S No. of ion ranges searched: 58

	Prob.	CAS #	COIN #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	78	2216333	8731	"BIGDB	48	36	2	0	71	1	55			16
2.	68	20272852	1203	"BIGDB	36	40	2	0	78	12	30			12
3.	68	926829	8724	"BIGDB	35	47	2	0	88	12	30			12
4.	68	17312339	8567	"BIGDB	43	35	1	0	69	14	30			15

Peak#: 12 Area: 25414. Est Conc: 83. Date: 01/29/93 12:06 Inst: C



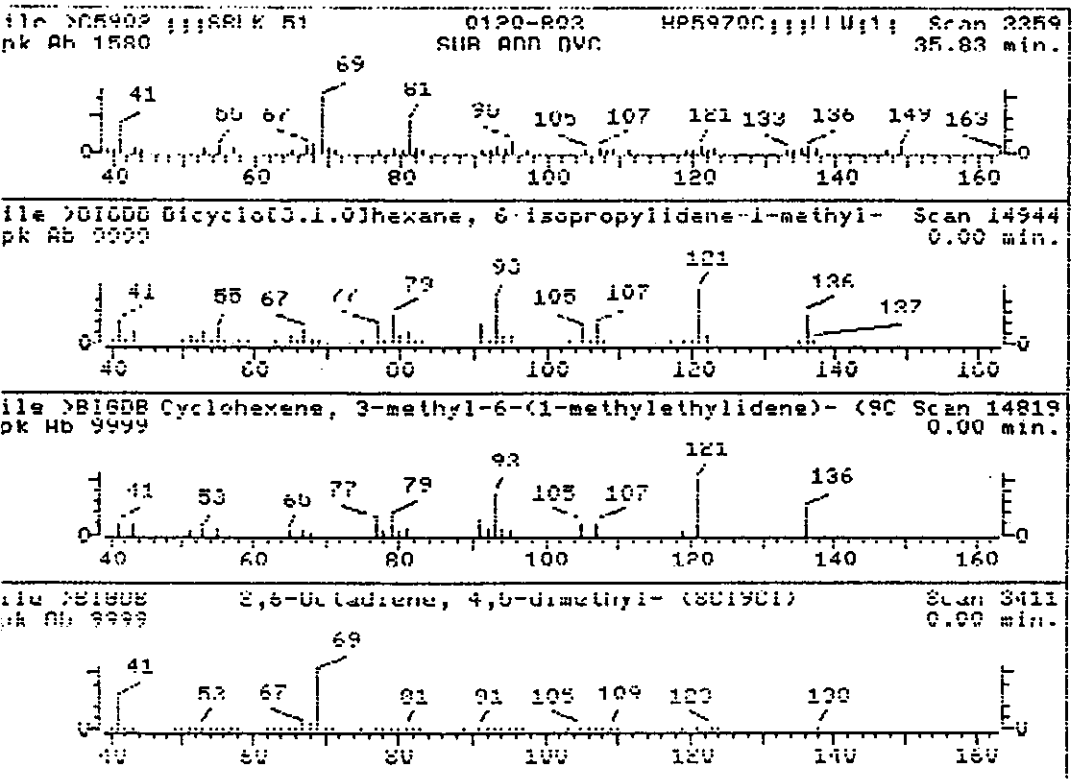
nd cond length RSP

1. Bicyclo[3.1.0]hexane, 6-isopropylidene-1-methyl- (RI 136 C10H16
2. Cyclohexene, 3-methyl-6-(1-methylethylidene)- (9CI) 136 C10H16
3. 2,6-Octadiene, 4,5-dimethyl- (8CI,9CI) 138 C10H18
4. Cyclohexene, 4-methyl-1-(1-methylethenyl)- (9CI) 136 C10H16

Sample file: >C5902 Spectrum #: 3359
Search speed: 3 Tilting option: S No. of ion ranges searched: 72

	Prob.	CAS #	CON #	ROOT	K	DK	#HLG	TILT	%	CON	C	I	R	IU
1.	55*	24524670	14944	"BIGDB	39	38	0	1	10	33	22			40
2.	47*	586630	14819	"BIGDB	42	36	0	2	13	42	16			46
3.	31	18476578	3411	"BIGDB	39	34	1	0	82	33	12			14
4.	31*	586624	14820	"BIGDB	37	44	1	1	15	33	12			13

Peak#: 56 Area: 29883. Est Conc: 81. Date: 01/29/93 12:06 Inst: C

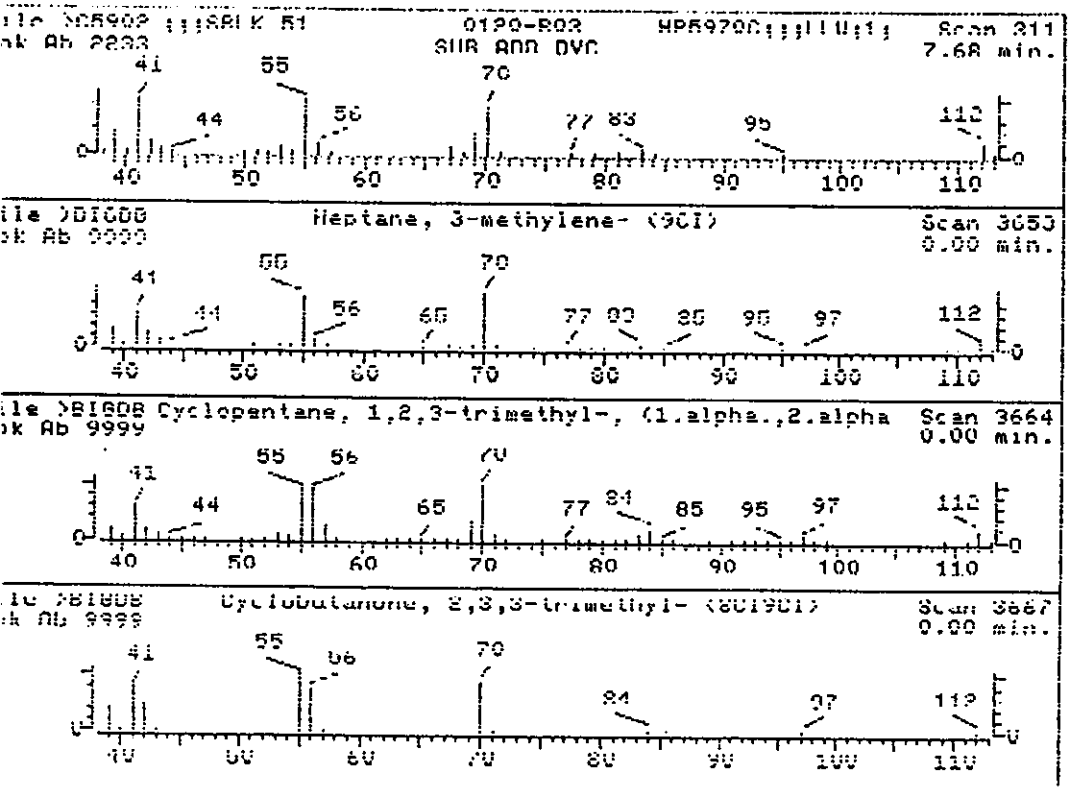


1.	Heptane, 3-methylene- (9CI)	112 C8H16
2.	Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.beta.)- (9CI)	112 C8H16
3.	Cyclobutanone, 2,3,3-trimethyl- (8CI9CI)	112 C7H12O
4.	1-Octene (8CI9CI)	112 C8H16

Sample file: >I59112 Spectrum #: 311
Search speed: 3 Tilting option: S No. of ion ranges searched: 57

	Prob.	CAS #	CON #	NAME	K	DK	#HIG	TILT	%	CON	C	I	R	IO
1.	21*	1632162	3653	"BIGDB	50	46	0	0	73	26	29	60		
2.	5%*	158904%%	3664	"BIGDB	57	45	3	0	90	24	22	22		
3.	43*	28290019	3667	"BIGDB	35	47	3	0	89	21	17	14		
4.	42*	111660	3646	"BIGDB	37	77	3	0	114	21	17	13		

Peak#: 6 Area: 23353. Est Conc: 77. Date: 01/29/93 12:06 Inst: C



0586

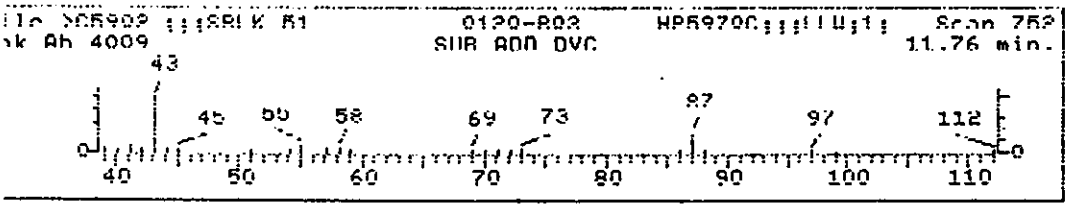
:an't interpret this parameter... Perhaps you have mistyped
he run string or have forgotten the order of the run string.

RPN error for command: RSF63
RPN error: -5
id record length RSF

Sample file: >C5902 Spectrum #: 752

ln data base entries were retrieved.

'eak#: 19 Area: 20397. Est Conc: 67. Date: 01/29/93 12:06 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0587

Matrix: (soil/water) WATER Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C5903.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	0.5	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0588

SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C5903.D

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.8	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0589
SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: ~~Z~~0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER ave 2/12/93

Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: C5903.D

Level: (low/med) LOW

Date Received: / /

% Moisture: _____ decanted: (Y/N)___

Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(uL)

Date Analyzed: 01/29/93

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: ~~0~~ 4
GMC 2/11/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.89	12	J
2.		ALDOL CONDENSATION PRODUCT	8.47	6	JA
3.		UNKNOWN	9.56	3	J
4.		↓	10.61	2	J
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.					

QUANT REPORT

Operator ID: MSC
Output File: ^C5903::QT
Data File: >C5903::C2
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951

Quant Rev: 6 Quant Time: 930129 14:04
Injected at: 930129 13:09
Dilution Factor: .50000

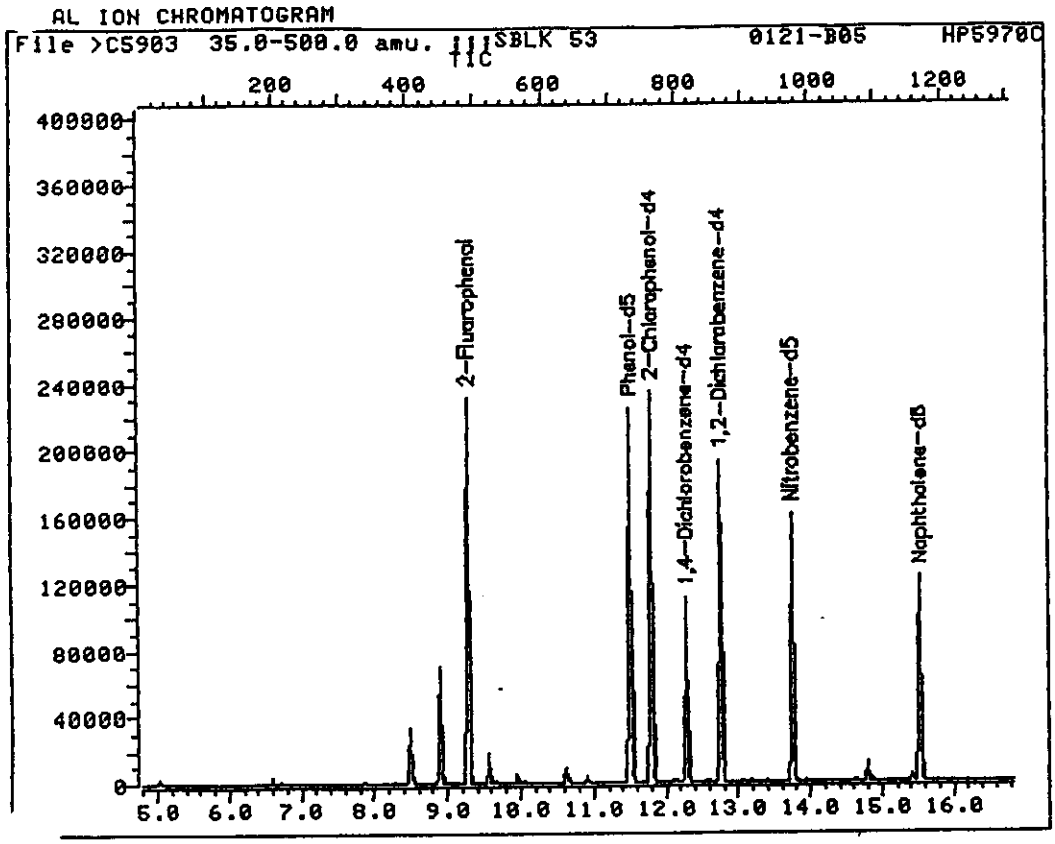
BTL# 3

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.27	151.8	33040	40.00	ug	97
3)	2-Chlorophenol-d4	11.80	132.0	130430	62.91	ug	89
4)	2-Fluorophenol	9.27	111.8	116708	55.61	ug	91
5)	Phenol-d5	11.51	98.8	165395	61.45	ug	91
6)	Phenol	11.52	93.9	1361^	.49	ug	65
11)	1,2-Dichlorobenzene-d4	12.75	152.0	63722	41.36	ug	92
18)	*Naphthalene-d8	15.53	135.9	132728	40.00	ug	98
19)	Nitrobenzene-d5	13.74	81.8	110323	39.06	ug	91
32)	*Acenaphthene-d10	20.20	163.9	77614	40.00	ug	87
36)	2-Fluorobiphenyl	18.42	171.8	185810	40.13	ug	98
48	Diethylphthalate	21.43	148.8	1985	.35	ug	93
52.	2,4,6-Tribromophenol	22.30	329.6	73308	68.82	ug	96
53)	*Phenanthrene-d10	24.10	187.9	146754	40.00	ug	95
62)	Di-n-butylphthalate	25.74	148.8	2788	.27	ug	97
64)	*Chrysene-d12	31.49	240.0	87461	40.00	ug	94
66)	Terphenyl-d14	28.36	244.0	217991	49.12	ug	97
71)	bis(2-Ethylhexyl)phthalate	31.62	148.8	3009	.77	ug	86
72)	*Perylene-d12	38.55	264.0	59973	40.00	ug	97

* Compound is ISTD

Conc 2/9/93



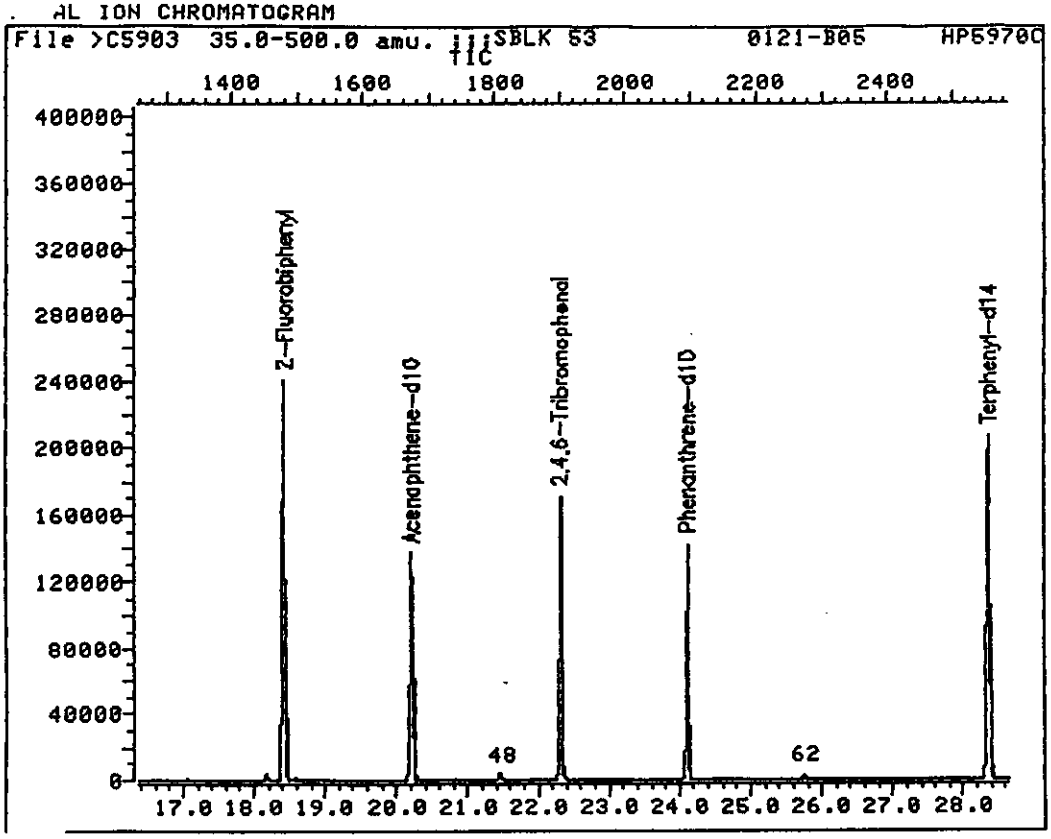
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 14:04
Injected at: 930129 13:09

TIC page 1 of 4

AL ION CHROMATOGRAM



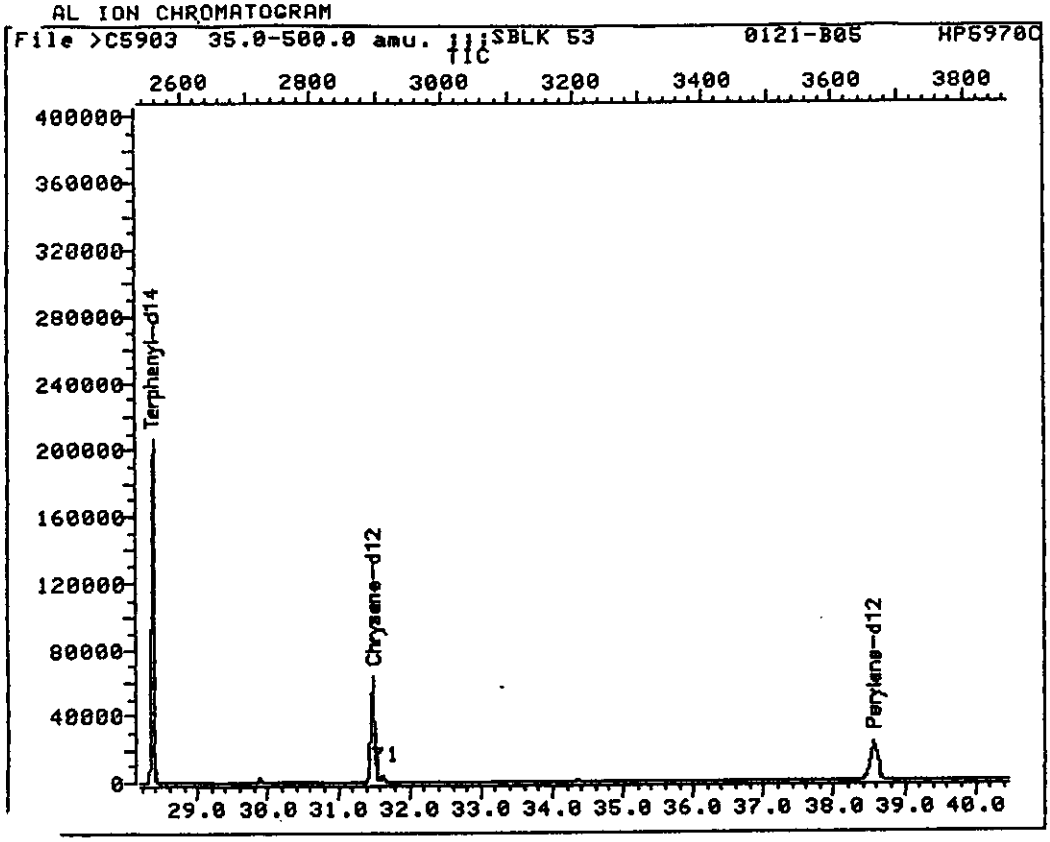
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 14:04
Injected at: 930129 13:09

TIC page 2 of 4

AL ION CHROMATOGRAM

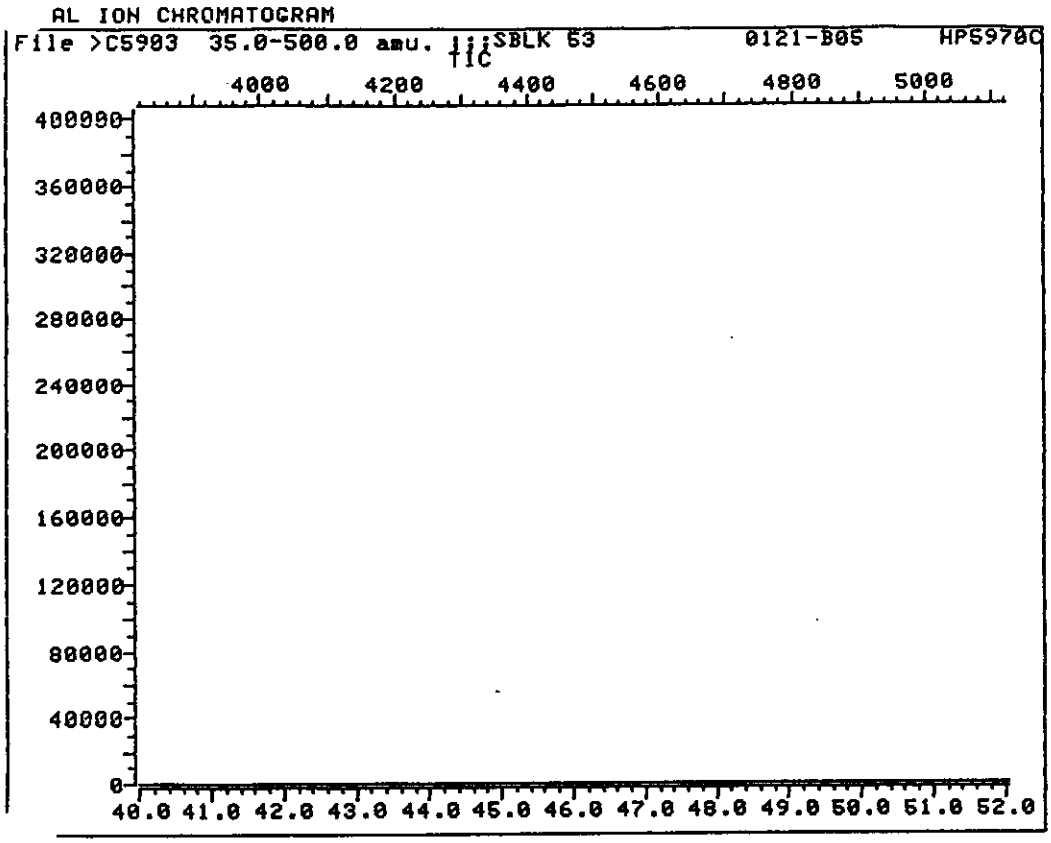


Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

Operator ID: MSC
Quant Time: 930129 14:04
Injected at: 930129 13:09

TIC page 3 of 4



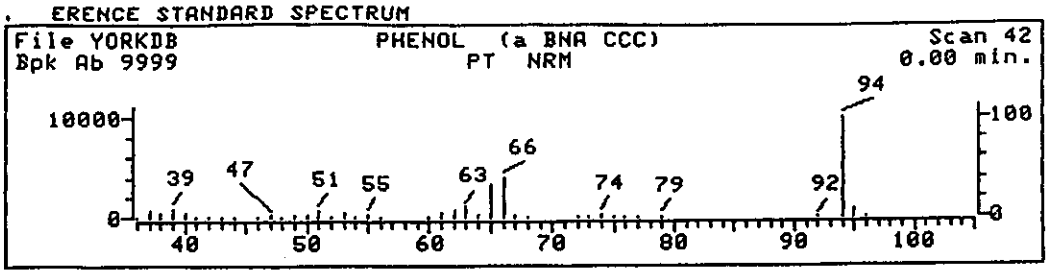
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930129 11:12

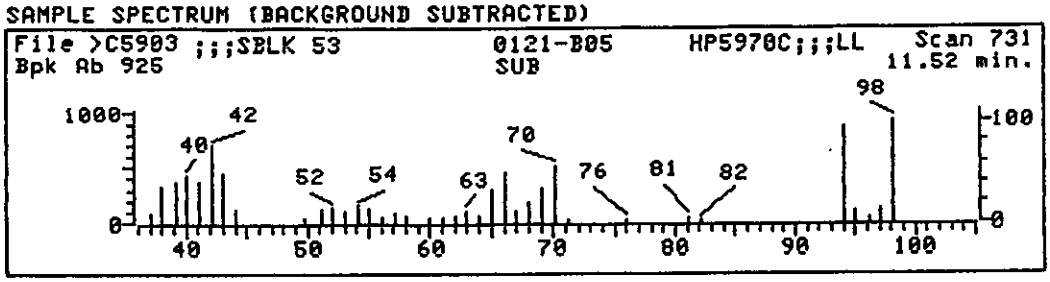
Operator ID: MSC
Quant Time: 930129 14:04
Injected at: 930129 13:09

TIC page 4 of 4

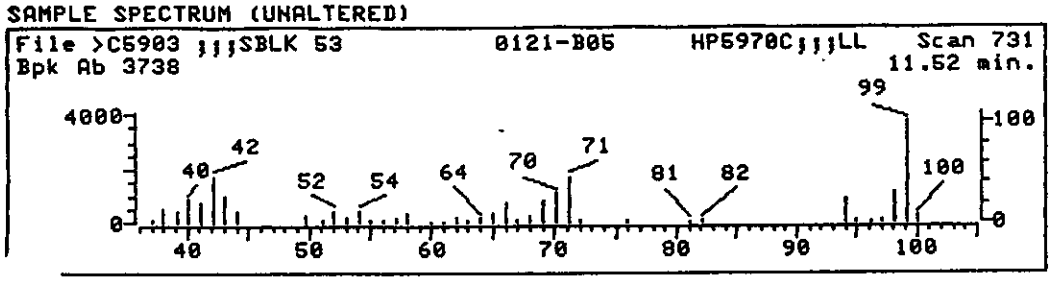
ERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



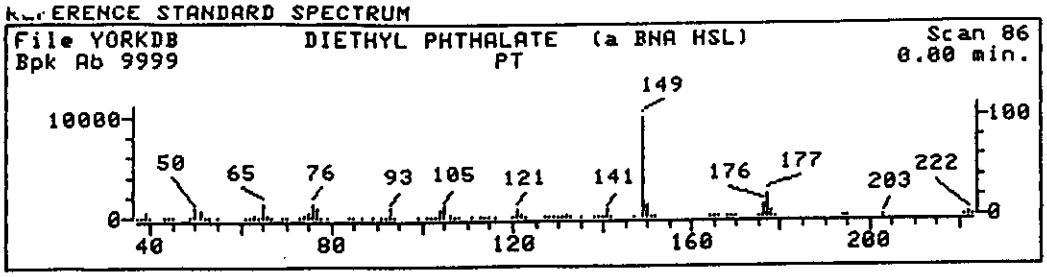
SAMPLE SPECTRUM (UNALTERED)



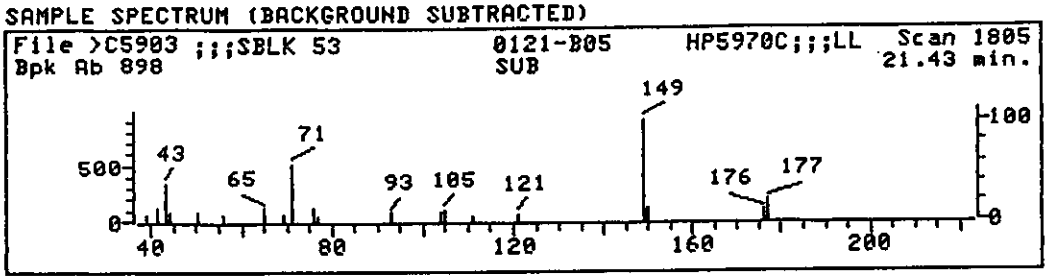
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3
Quant Time: 930129 14:04 Quant ID File: I_EPA::N1
Injected at: 930129 13:09 Last Calibration: 930129 11:12

Compound No: 6
Compound Name: Phenol
Scan Number: 731
Retention Time: 11.52 min.
Quant Ion: 93.9
Area: 1361^
Concentration: .49 ug
q-value: 65

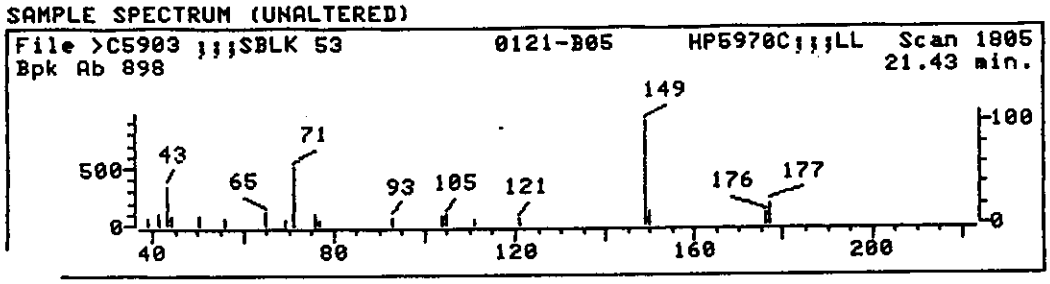
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



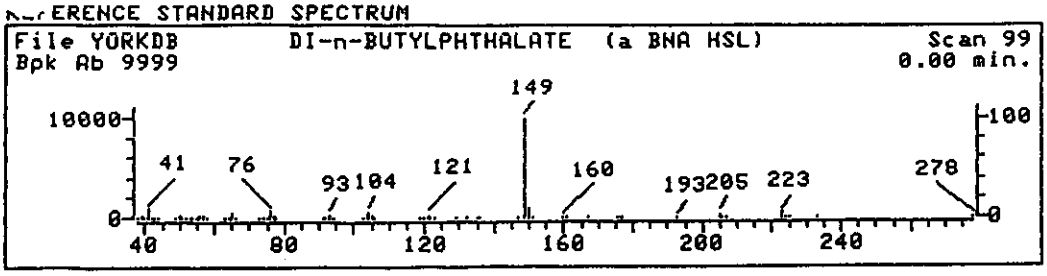
SAMPLE SPECTRUM (UNALTERED)



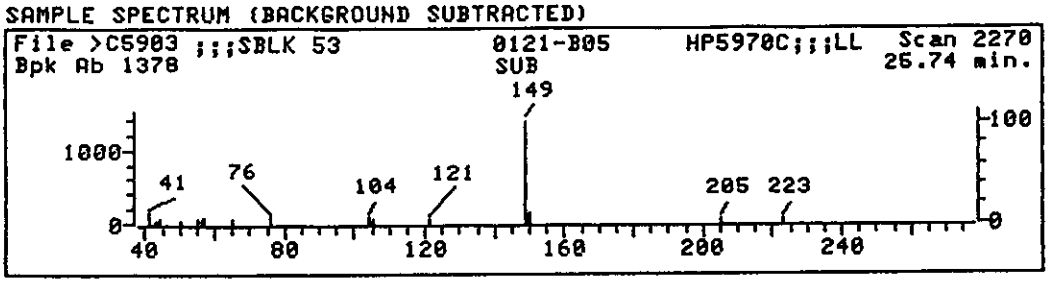
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3
Quant Time: 930129 14:04 Quant ID File: I_EPA::N1
Injected at: 930129 13:09 Last Calibration: 930129 11:12

Compound No: 48
Compound Name: Diethylphthalate
Scan Number: 1805
Retention Time: 21.43 min.
Quant Ion: 148.8
Area: 1985
Concentration: .35 ug
q-value: 93

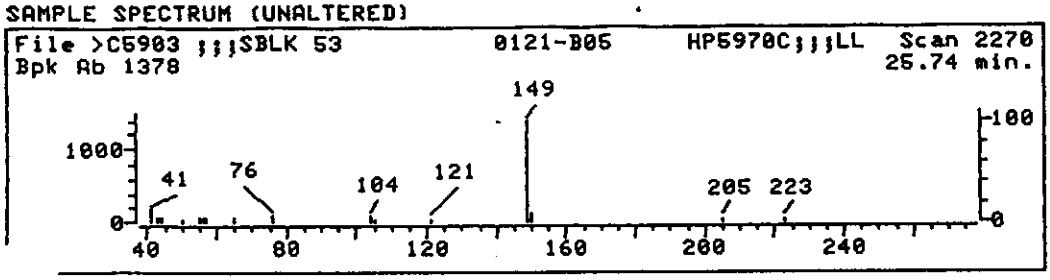
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



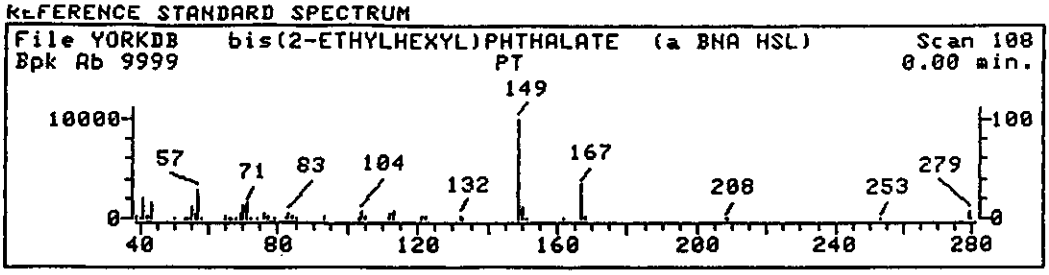
SAMPLE SPECTRUM (UNALTERED)



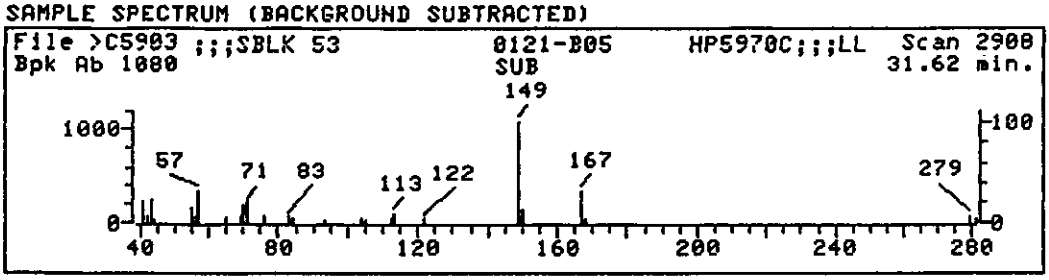
Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3
Quant Time: 930129 14:04 Quant ID File: I_EPA::N1
Injected at: 930129 13:09 Last Calibration: 930129 11:12

Compound No: 62
Compound Name: Di-n-butylphthalate
Scan Number: 2270
Retention Time: 25.74 min.
Quant Ion: 148.8
Area: 2788
Concentration: .27 ug
q-value: 97

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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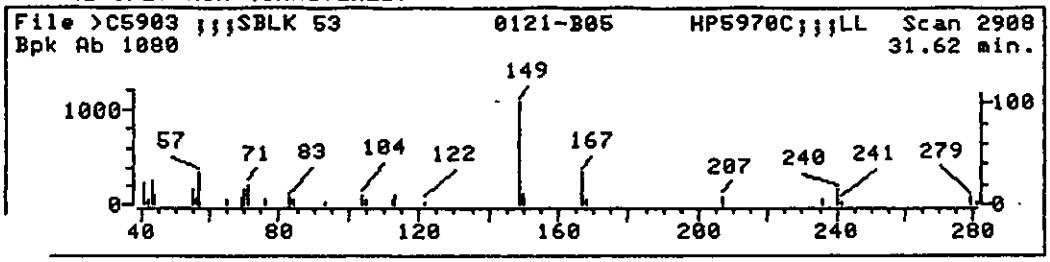


Data File: >C5903::C2 Quant Output File: ^C5903::QT
Name: ;;;SBLK 53
Misc: 0121-B05 HP5970C;;;LLW;1;;;C0951 BTL# 3
Quant Time: 930129 14:04 Quant ID File: I_EPA::N1
Injected at: 930129 13:09 Last Calibration: 930129 11:12

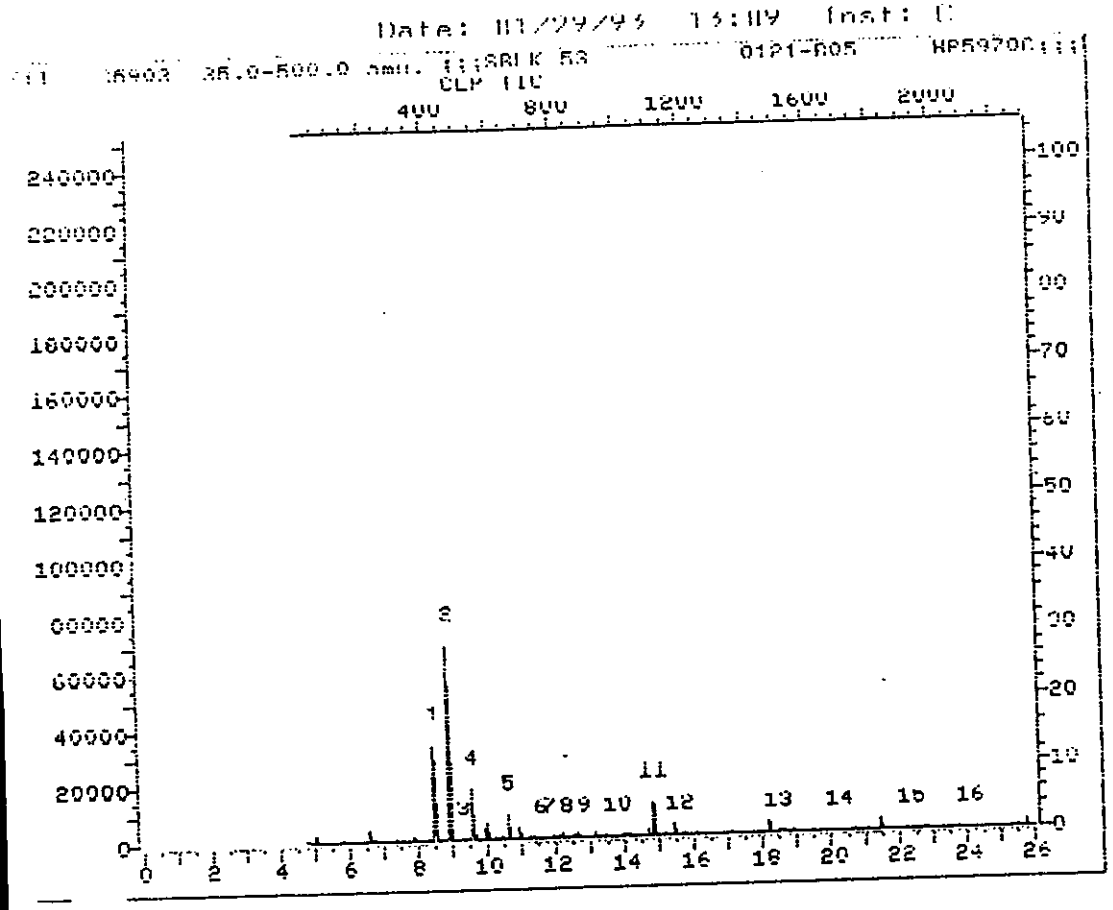
Compound No: 71
Compound Name: bis(2-Ethylhexyl)phthalate
Scan Number: 2908
Retention Time: 31.62 min.
Quant Ion: 148.8
Area: 3009
Concentration: .77 ug
q-value: 86

MS data file header from : >1359113

Sample: ;;;SHLK 53 Operator: MSC MS 1/29/93 13:19
Misc : 0121-R115 HP5972C;;;1LW;1;;;C0951 RTL# 3
Sys. #: 1 MS model: 20 SW/HW rev.: 1A ALS # : 0
Method file: M C Tuning file: T C No. of extra records: 2
Source temp.: 0 Analyzer temp.: 290 Transfer line temp. : 0

Chromatographic temperatures :	40.	290.	0.	0.	0.
Chromatographic times, min. :	4.0	23.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	10.0	0.0	0.0	.5	0.0

0600


Date: 11/29/95 13:09 Inst: 0
0121-B05
HP5970C
CLP TIC
400
800
1200
1600
2000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
100
90
80
70
60
50
40
30
20
10
0
2
4
6
8
10
12
14
16
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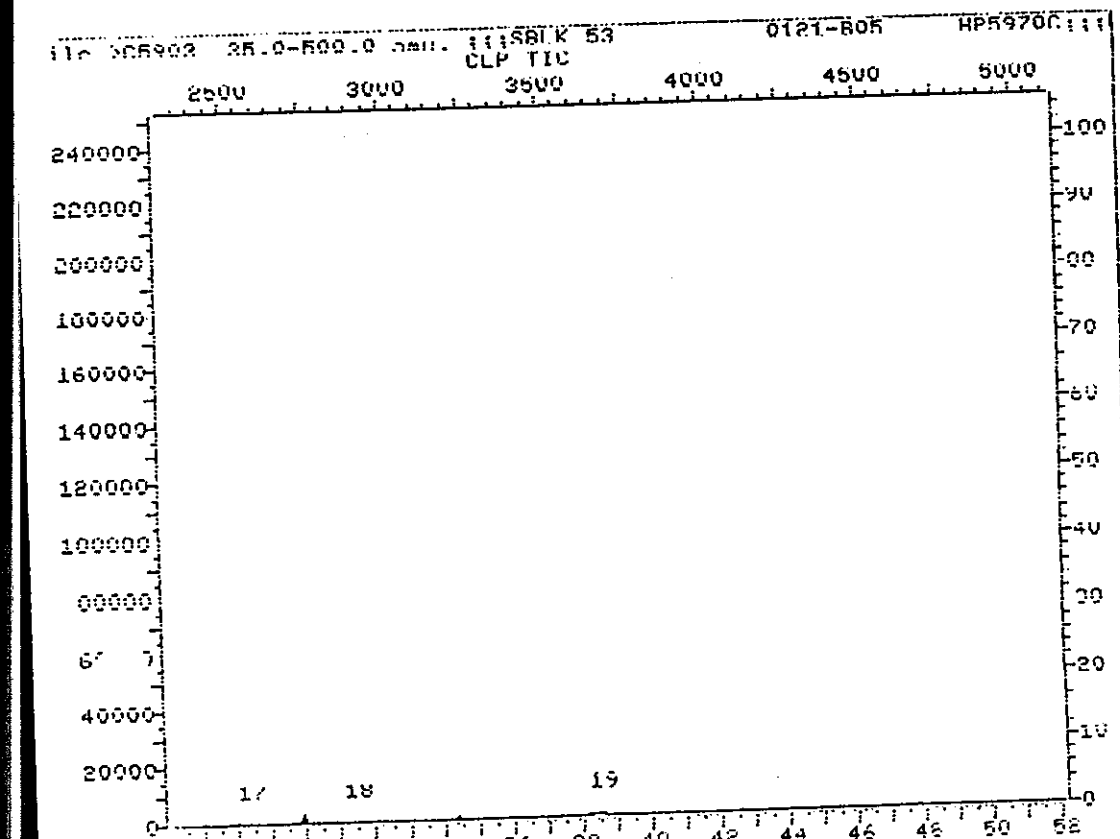
16


0121-B05
HP5970C
CLP TIC
2500
3000
3500
4000
4500
5000
240000
220000
200000
180000
160000
140000
120000
100000
80000
40000
20000
0
100
90
80
70
60
50
40
30
20
10
0
17
18
19
40
42
44
46
48
50
52

SBLK53
HP5970C

Date: 01/29/93 13:09 Inst: C

T I C P E A K R E P O R T

Pk#	R.T.	Total Area	Est Conc.	Assoc ISTD	DF
2.	8.89	134277.	12.	1.	.50
3.	8.47	21255.	6.	1.	.50
4.	9.56	32677.	3.	1.	.50
5.	10.61	23342.	2.	1.	.50

0601

I N T E R N A L S T D A R E A R E P O R T

ISTD Compound Name	RT	Area	RT Range		TI/SI
1,4-DICHLOROBENZENE-D4	12.27	223132.	0.00	13.90	6.8
NAPHTHALENE-D8	15.53	287487.	13.90	17.87	2.2
ACENAPHTHENE-D10	20.20	349748.	17.87	22.15	4.5
PHENANTHRENE-D10	24.10	366409.	22.15	27.80	2.5
CHRYSENE-D12	31.49	227461.	27.80	35.02	2.6
PERYLENE-D12	38.55	150110.	35.02	38.55	2.5

ISTD peaks found: 6
Surrogate peaks found: 8
Qu nt target peaks expected: 3
Target peaks matched: 0
Total TIC identified: 4

TICS : 5:22 PM THU., 4 FEB., 1993

nd cord length RSP

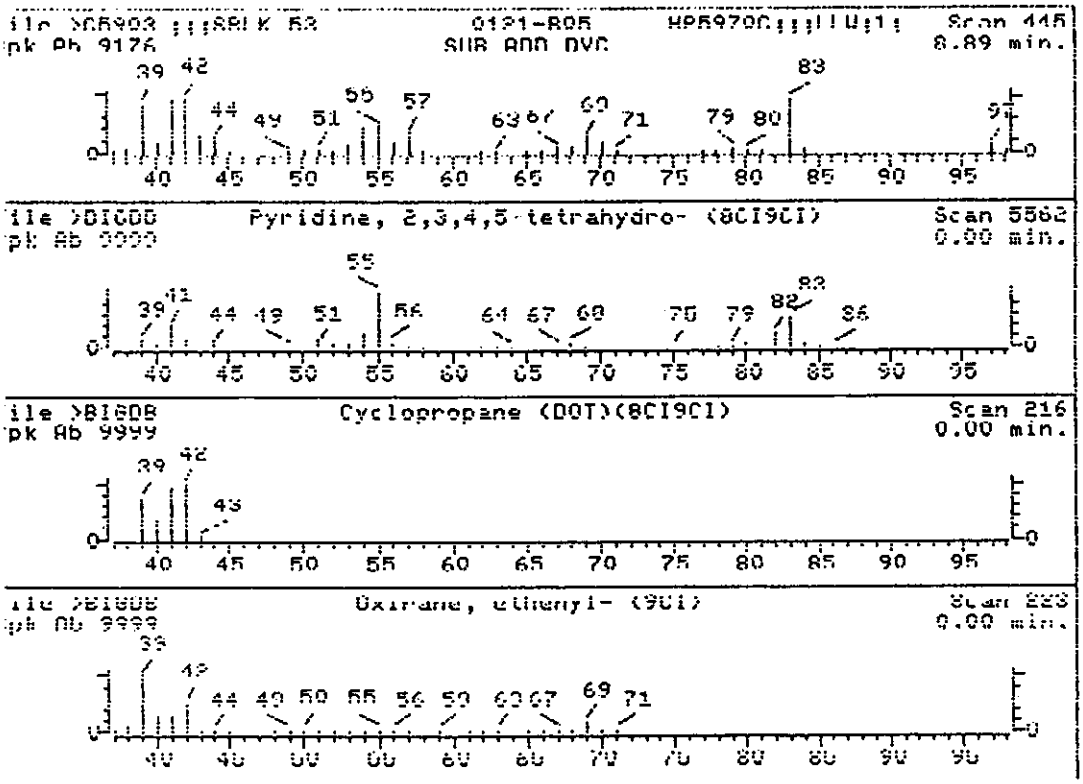
1. Pyridine, 2,3,4,5-tetrahydro- (8CI9CI)	83	C5H9N
2. Cyclopropane (DOT)(8CI9CI)	42	C3H6
3. Oxirane, ethenyl- (9CI)	70	C4H6O
4. Cyclobutanone (8CI9CI)	70	C4H6O

0602

Sample File: >IC5911\ Spectrum #: 445
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CIN #	RIMT	K	OK	#HLG	TILT	%	CON	C	I	R	IV
1.	20*	505180	5562	"BIGDB	38	55	2	0	177	55	5			18
2.	2I*	25194	216	"BIGDB	25	65	1	0	100	52	5			14
3.	15*	930223	223	"BIGDB	37	50	0	0	62	65	3			42
4.	11*	1191953	3478	"BIGDB	26	50	0	0	99	64	2			18

Peak#: 2 Area: 134270. Est Conc: 12. Date: 01/29/93 13:09 Inst: C



to interpret this parameter... Perhaps you have mistyped
the run string or have forgotten the order of the run string.

0603

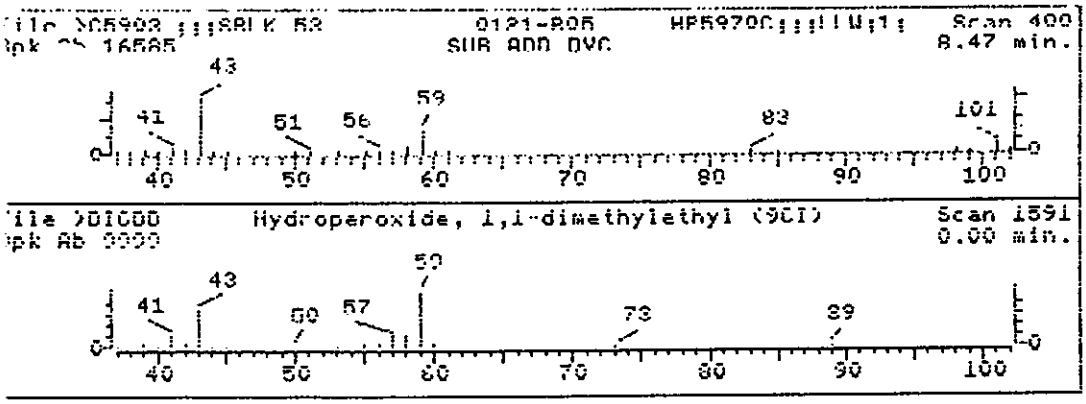
RPN error for command: RSF63
RPN error: -5
ad record length RSF

1. Hydroperoxide, 1,1-dimethylethyl (9CI) 90 C4H10O2

Sample file: >C5903 Spectrum #: 400
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	9%	75912	1591	"RIGDB	38	27	1	0	38	51	5			14

Peak#: 1 Area: 71255. Est Conc: 6. Date: 01/29/93 13:09 Inst: C

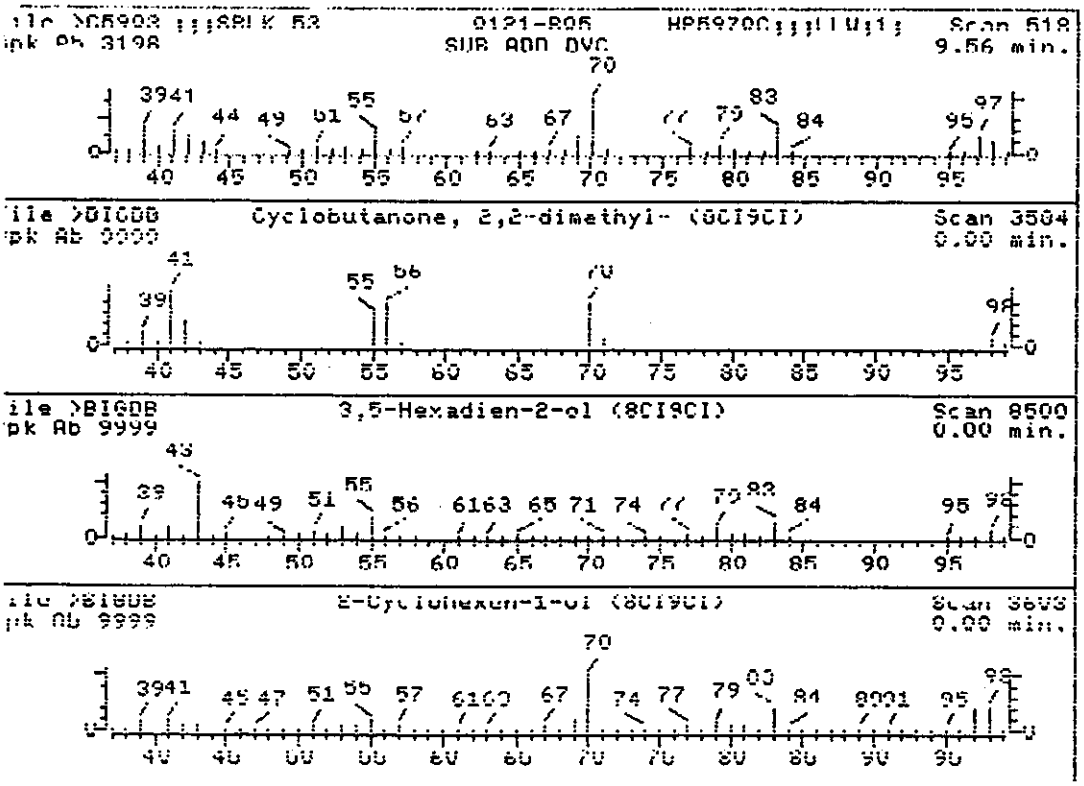


1.	Cyclobutanone, 2,2-dimethyl- (8CI9CI)	98 C6H10O
2.	3,5-Hexadien-2-ol (8CI9CI)	98 C6H10O
3.	2-Cyclohexen-1-ol (8CI9CI)	98 C6H10O
4.	4-Penten-2-one, 4-methyl- (8CI9CI)	98 C6H10O

Sample File: >C5903 Spectrum #: 518
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	37*	1192149	3584	"BIGDB	53	52	3	0	124	30	14			14
2.	31*	3280511	8500	"BIGDB	51	40	2	1	65	48	10			27
3.	20*	822623	3603	"BIGDB	44	55	2	0	53	54	5			18
4.	20*	3744023	8502	"BIGDB	29	50	2	0	173	54	5			14

Peak#: 4 Area: 32677. Est Conc: 3. Date: 01/29/93 13:09 Inst: C



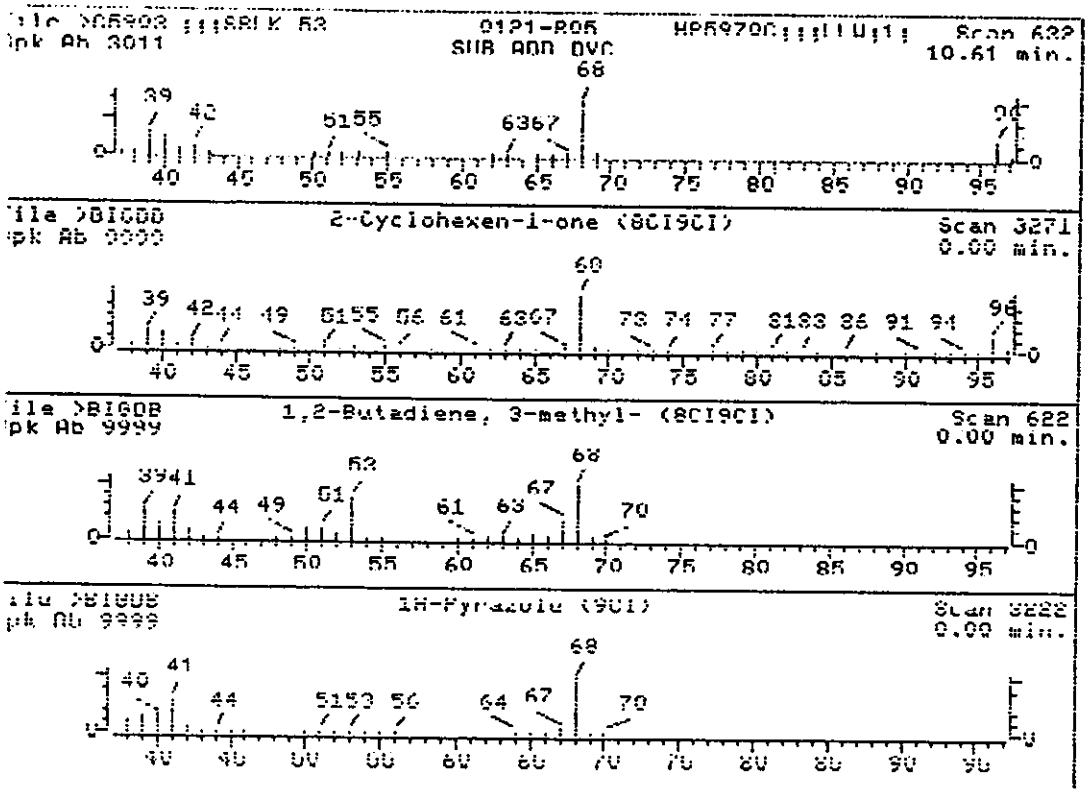
ad cord length RSH

1. 2-Cyclohexen-1-one (8C19CI) 96 C6H8O
2. 1,2-Butadiene, 3-methyl- (8C19CI) 68 C5H8
3. 1H-Pyrazole (9CI) 68 C3H4N2
4. 1,4-Pentadiene (8C19CI) 68 C5H8

Sample File: >IC5903 Spectrum #: 632
Search speed: 3 Tilting option: S No. of ion ranges searched: 56

	Prob.	CAS #	COM #	RUN/T	K	DK	#FLG	TILT	%	CON	C	I	R	IV
1.	71*	930687	3271	"BIGDB	68	17	2	0	100	30	29			60
2.	61*	598254	622	"BIGDB	28	85	3	0	77	15	30			13
3.	52*	288131	3222	"BIGDB	30	62	2	0	100	17	20			14
4.	52*	591936	3224	"BIGDB	34	73	3	0	72	17	20			13

Peak#: 5 Area: 23342. Est Conc: 2. Date: 01/29/93 13:09 Inst: C



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2-100MSB

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0606

Matrix: (soil/water) SOIL Lab Sample ID: 0060002MSB

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5913.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted:01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	1500	
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	1100	
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	1100	
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	1500	
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	910	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0607

2-100MSB

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002MSB

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5913.D

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

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	1700	
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	1100	
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	23	JB
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	33	JB
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

QUANT REPORT

Operator ID: MSC
Output File: ^C5913::QT
Data File: >C5913::C5
Name: 0060;;;MSB S-100
Misc: 0060002MSB HP5970C;011993;012093;LLS;1;;;C0952

Quant Rev: 6 Quant Time: 930201 14:32
Injected at: 930201 13:38
Dilution Factor: 16.67000

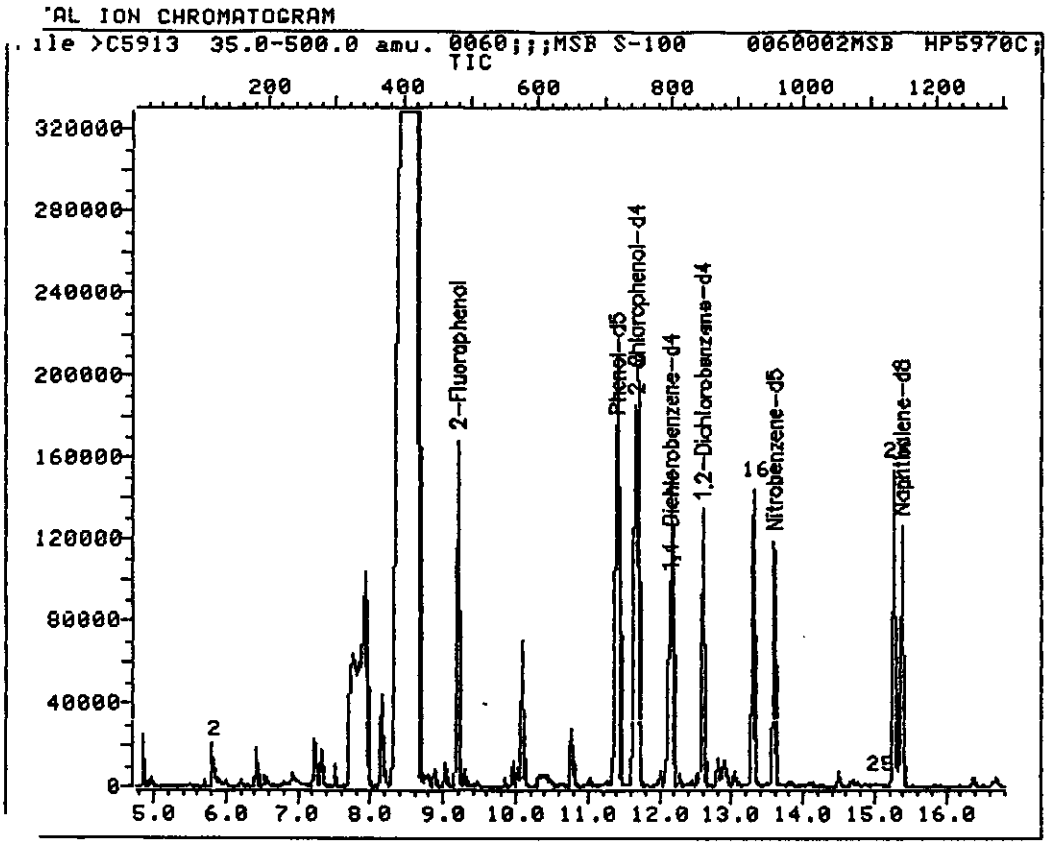
BTL# 1

ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.13	151.8	28727	40.00	ug	96
2)	Pyridine	5.80	52.0	16989	330.99	ug	89
3)	2-Chlorophenol-d4	11.66	132.0	82871	1508.72	ug	96
4)	2-Fluorophenol	9.18	111.8	78381	1633.14	ug	81
5)	Phenol-d5	11.39	98.8	109029	1570.83	ug	85
6)	Phenol	11.42	93.9	104545	1505.59	ug	96
8)	2-Chlorophenol	11.71	127.8	87167	1482.75	ug	85
10)	1,4-Dichlorobenzene	12.17	145.7	66619	1067.35	ug	91
11)	1,2-Dichlorobenzene-d4	12.60	152.0	42665	1094.35	ug	96
16)	N-Nitroso-di-n-propylamine	13.29	69.9	63402	1069.24	ug	88
1[illegible]	*Naphthalene-d8	15.37	135.9	119412	40.00	ug	98
1	Nitrobenzene-d5	13.59	81.8	76513	1010.33	ug	85
~~25)~~	~~2,4-Dichlorophenol~~	~~15.04~~	~~161.7~~	~~371~~	~~6.79~~	~~ug~~	~~98~~
26)	1,2,4-Trichlorobenzene	15.27	179.7	62407	1028.35	ug	98
30)	4-Chloro-3-methylphenol	16.88	106.9	103207	1535.16	ug	85
32)	*Acenaphthene-d10	20.03	163.9	73719	40.00	ug	97
36)	2-Fluorobiphenyl	18.24	171.8	121011	902.55	ug	95
43)	Acenaphthene	20.11	152.9	122983	908.04	ug	91
45)	4-Nitrophenol	20.39	108.8	33890	1682.57	ug	94
47)	2,4-Dinitrotoluene	20.64	164.8	63743	1095.65	ug	83
~~48)~~	~~Diethylphthalate~~	~~21.29~~	~~148.8~~	~~3447~~	~~18.73~~	~~ug~~	~~89~~
52)	2,4,6-Tribromophenol	22.14	329.6	58237	1381.34	ug	87
53)	*Phenanthrene-d10	23.92	187.9	139116	40.00	ug	95
58)	Pentachlorophenol	23.58	265.6	60675	1537.72	ug	94
62)	Di-n-butylphthalate	25.56	148.8	7000	23.44	ug	98
64)	*Chrysene-d12	31.22	240.0	98779	40.00	ug	96
65)	Pyrene	27.76	201.9	226867	1080.96	ug	99
66)	Terphenyl-d14	28.17	244.0	224257	1377.36	ug	99
~~67)~~	~~Butylbenzylphthalate~~	~~29.51~~	~~148.8~~	~~583~~	~~4.25~~	~~ug~~	~~68~~
71)	bis(2-Ethylhexyl)phthalate	31.37	148.8	5220	33.27	ug	82
72)	*Perylene-d12	38.06	264.0	76345	40.00	ug	96
~~73)~~	~~Di-n-octylphthalate~~	~~34.02~~	~~148.9~~	~~1468~~	~~7.11~~	~~ug~~	~~99~~

* Compound is ISTD

CMC 2/9/93

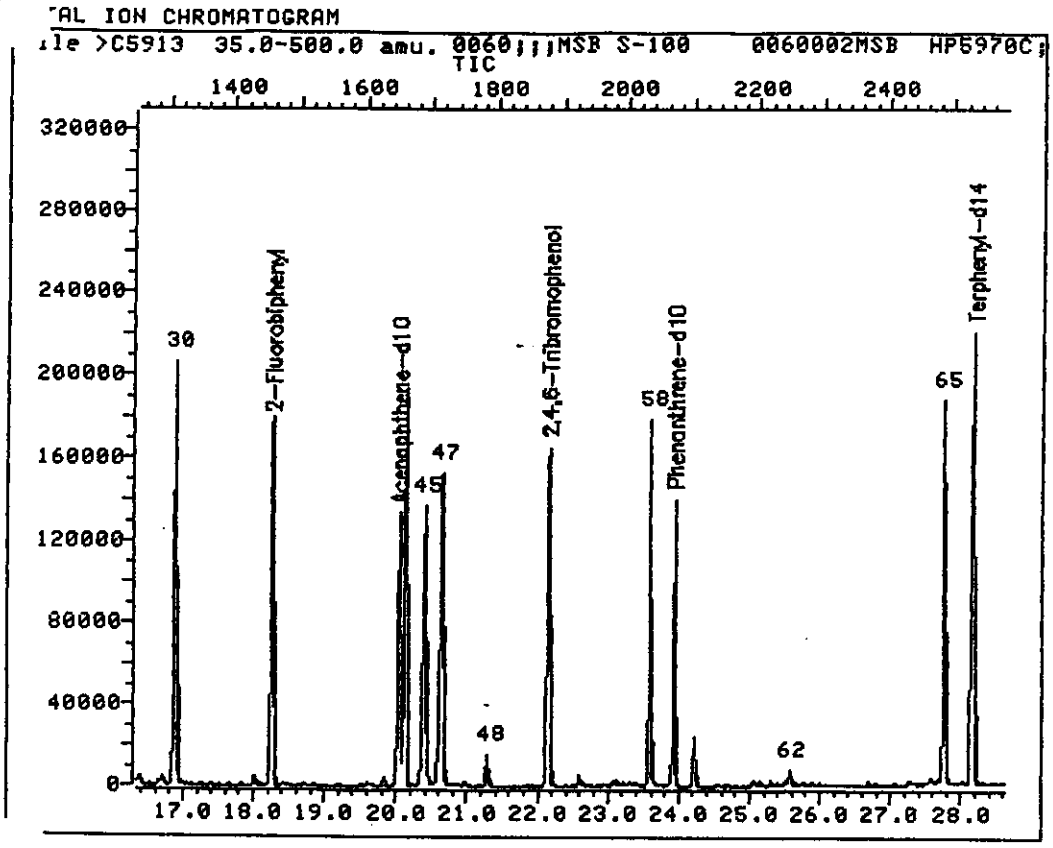


Data File: >C5913::C5 Quant Output File: ^C5913::QT
Name: 0060;;;MSB S-100
Misc: 0060002MSB HP5970C;011993;012093;LLS;1;;;C0952 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 14:32
Injected at: 930201 13:38

TIC page 1 of 4

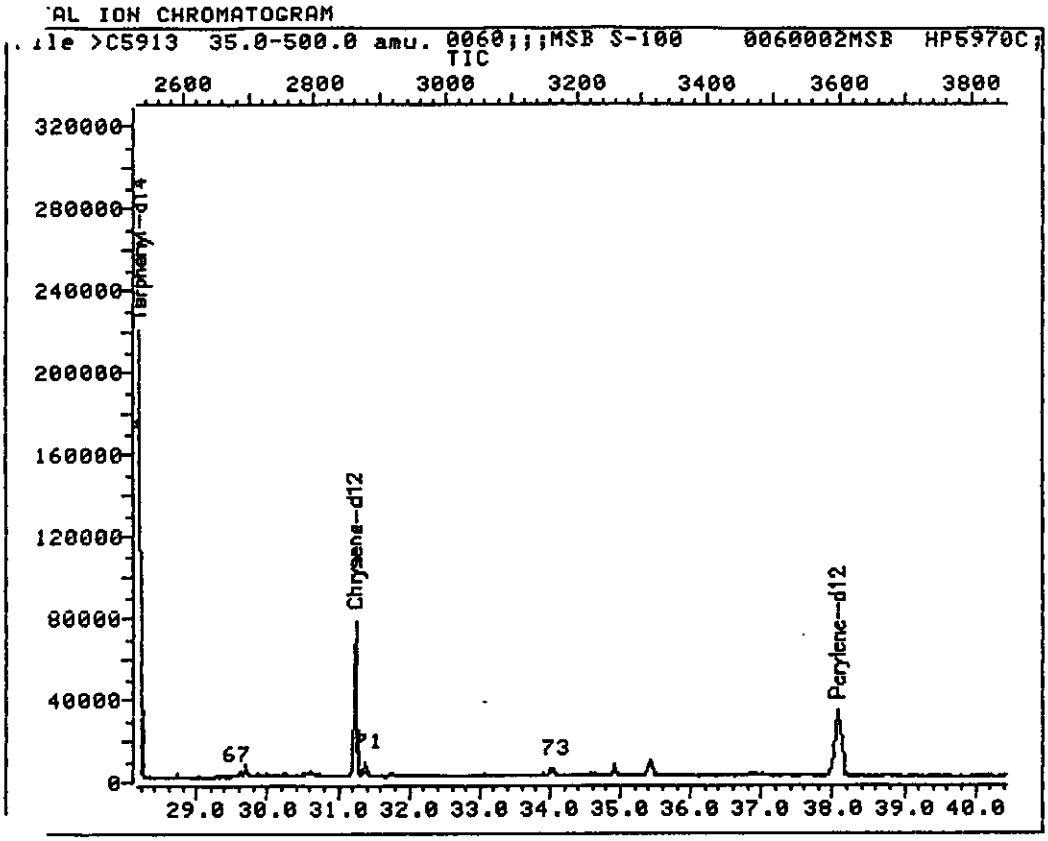


Data File: >C5913::C5 Quant Output File: ^C5913::QT
Name: 0060;;;MSB S-100
Misc: 0060002MSB HP5970C;011993;012093;LLS;1;;;C0952 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 14:32
Injected at: 930201 13:38

TIC page 2 of 4

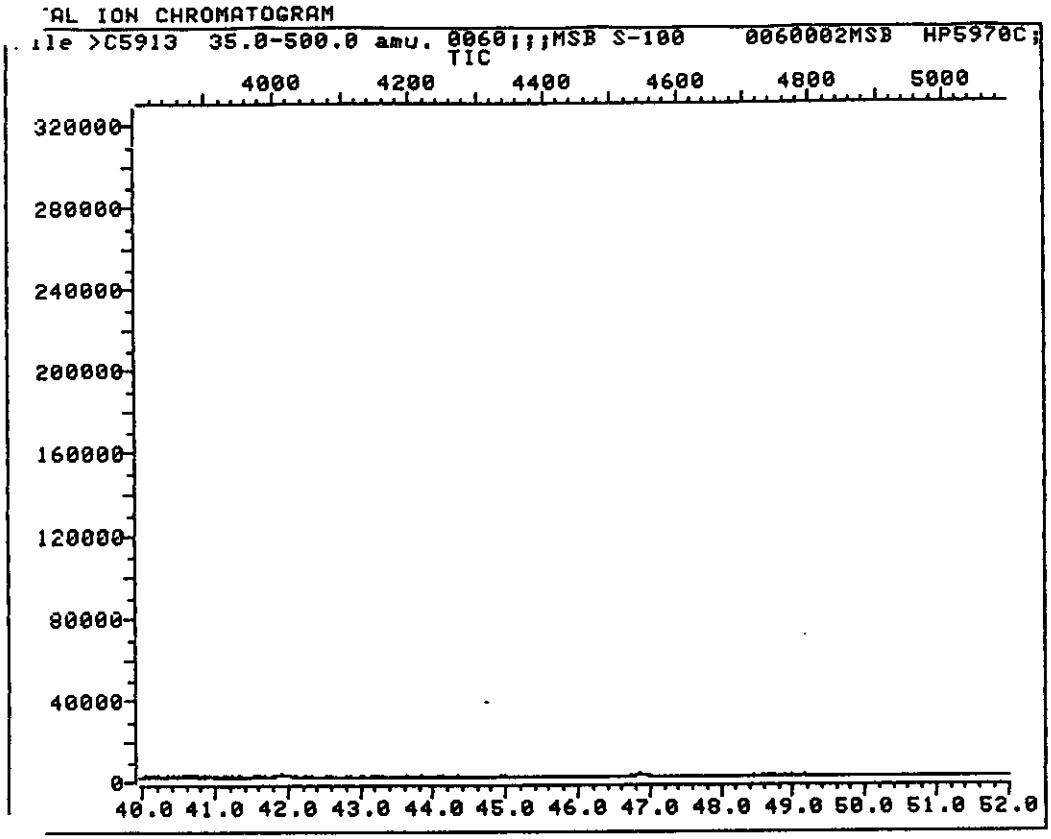


Data File: >C5913::C5 Quant Output File: ^C5913::QT
Name: 0060;;;MSB S-100
Misc: 0060002MSB HP5970C;011993;012093;LLS;1;;;C0952 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 14:32
Injected at: 930201 13:38

TIC page 3 of 4



Data File: >C5913::C5 Quant Output File: ^C5913::QT
Name: 0060;;;MSB S-100
Misc: 0060002MSB HP5970C;011993;012093;LLS;1;;;C0952 BTL# 1

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 14:32
Injected at: 930201 13:38

TIC page 4 of 4

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MS

0613

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Conc 2/12/93 Lab Sample ID: 0060002MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5932.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	1900	
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	1500	
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	1400	
91-20-3	Naphthalene	87	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	86	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	480	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	1700	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MS 0614

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5932.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	3200	
132-64-9	Dibenzofuran	72	J
121-14-2	2,4-Dinitrotoluene	1700	
84-66-2	Diethylphthalate	21	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	110	J
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	640	
120-12-7	Anthracene	350	J
86-74-8	Carbazole	250	J
84-74-2	Di-n-butylphthalate	62	JB
206-44-0	Fluoranthene	1000	
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	820	
218-01-9	Chrysene	1000	
117-81-7	bis(2-Ethylhexyl)phthalate	250	JB
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	770	
50-32-8	Benzo(a)pyrene	760	
193-39-5	Indeno(1,2,3-cd)pyrene	230	J
53-70-3	Dibenz(a,h)anthracene	35	J
191-24-2	Benzo(g,h,i)perylene	130	J

2/18/93

QUANT REPORT

Operator ID: MSC
Output File: ^C5932::QT
Data File: >C5932::C1
Name: 0060;;;S-100
Misc: 0060002MS HP5970C;011993;012093;LLS;1;;7.4;C0953

Quant Rev: 6
Quant Time: 930202 21:55
Injected at: 930202 21:00
Dilution Factor: 18.94000

BTL# 8

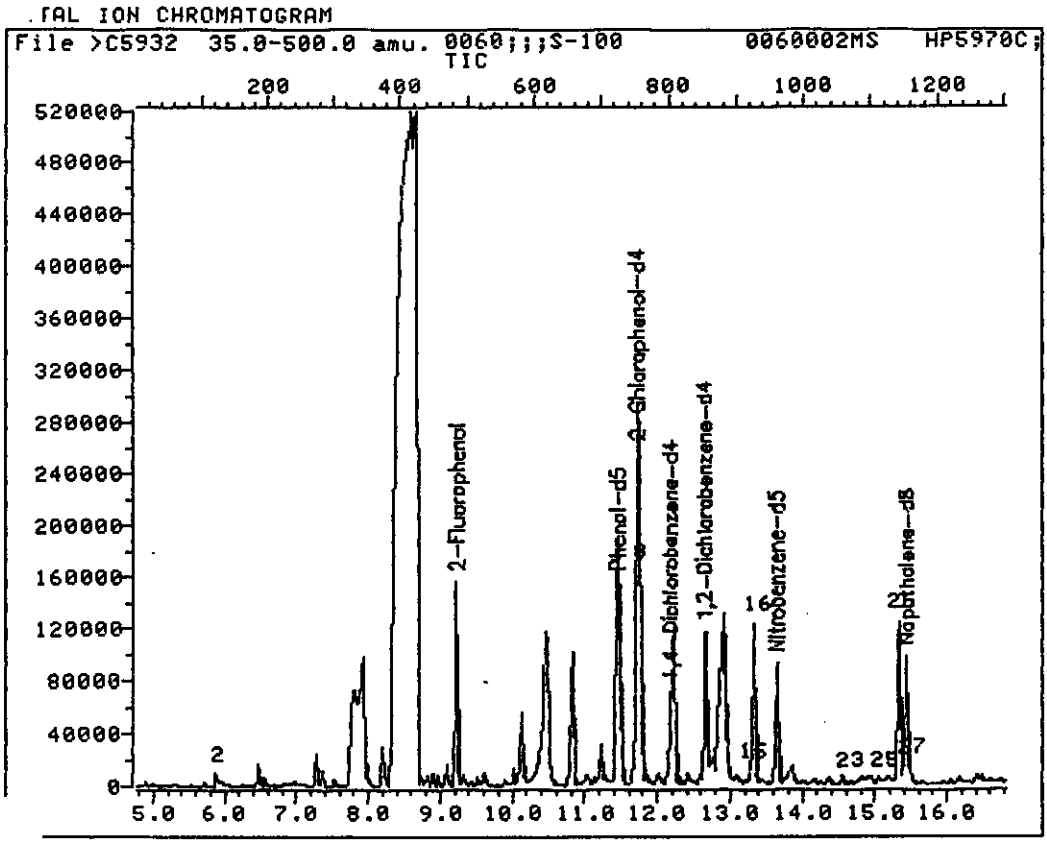
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.17	151.8	24332	40.00	ug	97
2)	Pyridine	5.88	52.0	9180	230.52	ug	97
3)	2-Chlorophenol-d4	11.71	132.0	73010	1882.79	ug	98
4)	2-Fluorophenol	9.22	111.8	67844	1801.64	ug	80
5)	Phenol-d5	11.44	98.8	99824	1975.98	ug	85
6)	Phenol	11.47	93.9	103452	1999.42	ug	89
8)	2-Chlorophenol	11.75	127.8	75188	1890.70	ug	83
10)	1,4-Dichlorobenzene	12.21	145.7	56920	1306.29	ug	82
11)	1,2-Dichlorobenzene-d4	12.64	152.0	37118	1272.20	ug	94
15)	4-Methylphenol	13.27	107.8	495^	13.64	ug	72
17)	N-Nitroso-di-n-propylamine	13.34	69.9	60685	1491.09	ug	81
18)	*Naphthalene-d8	15.43	135.9	96083	40.00	ug	98
19)	Nitrobenzene-d5	13.63	81.8	67006	1182.19	ug	91
23)	2,4-Dimethylphenol	14.61	106.8	316	6.36	ug	89
25)	2,4-Dichlorophenol	15.09	161.7	388	9.96	ug	83
26)	1,2,4-Trichlorobenzene	15.32	179.7	58354	1404.23	ug	74
27)	Naphthalene	15.47	127.9	10375	87.39	ug	88
30)	4-Chloro-3-methylphenol	16.95	106.9	113017	2393.99	ug	89
31)	2-Methylnaphthalene	17.28	141.9	7519	85.72	ug	94
32)	*Acenaphthene-d10	20.09	163.9	59600	40.00	ug	93
36)	2-Fluorobiphenyl	18.30	171.8	141354	1501.22	ug	95
40)	Acenaphthylene	19.68	152.0	55488	480.52	ug	92
43)	Acenaphthene	20.17	152.9	139165	1694.85	ug	88
45)	4-Nitrophenol	20.46	108.8	39770	3257.62	ug	66
46)	Dibenzofuran	20.58	167.8	8546	72.55	ug	92
47)	2,4-Dinitrotoluene	20.69	164.8	63771	1660.18	ug	93
48)	Diethylphthalate	21.32	148.8	2404	21.50	ug	84
50)	Fluorene	21.49	165.9	8530	110.23	ug	87
52)	2,4,6-Tribromophenol	22.20	329.6	80085	2975.16	ug	95
53)	*Phenanthrene-d10	23.99	187.9	143980	40.00	ug	96
55)	N-Nitrosodiphenylamine (1)	21.53	168.9	730^	12.67	ug	52
58)	Pentachlorophenol	23.65	265.6	55619	1591.01	ug	84
59)	Phenanthrene	24.04	177.9	116386	637.39	ug	96
60)	Carbazole	24.59	166.8	19730	250.62	ug	97
61)	Anthracene	24.17	177.9	66994	354.43	ug	96
62)	Di-n-butylphthalate	25.64	148.8	16866	61.77	ug	94
64)	Fluoranthene	27.26	201.9	215531	1032.82	ug	98
65)	*Chrysene-d12	31.43	240.0	100269	40.00	ug	97
66)	Pyrene	27.89	201.9	366193	1963.25	ug	96
67)	Terphenyl-d14	28.28	244.0	215857	1521.68	ug	98
69)	Butylbenzylphthalate	29.64	148.8	2726	28.65	ug	36
70)	3,3'-Dichlorobenzidine	31.00	251.9	1834	103.09	ug	66

	Compound	R.T.	Q ion	Area	Conc	Units	q
70)	Chrysene	31.52	228.0	119924	1021.49	ug	96
71)	bis(2-Ethylhexyl)phthalate	31.53	148.8	30597	250.23	ug	79
72)	*Perylene-d12	38.39	264.0	43694M	40.00	ug	92
~~73)~~	~~Di-n-octylphthalate~~	~~33.70~~	~~148.9~~	~~2315~~	~~19.41~~	~~ug~~	~~78~~
74)	Benzo(b)fluoranthene	36.16	252.0	90419	1183.44	ug	92
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.25~~	~~252.0~~	~~50335~~	~~658.80~~	~~ug~~	~~96~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.16~~	~~252.0~~	~~90419~~	~~1376.87~~	~~ug~~	~~94~~
75)	Benzo(k)fluoranthene	36.25	252.0	50335	766.48	ug	95
76)	Benzo(a)pyrene	38.03	252.0	46215	757.30	ug	97
77)	Indeno(1,2,3-cd)pyrene	46.83	276.0	10970	226.49	ug	93
78)	Dibenz(a,h)anthracene	47.03	278.0	1678	34.66	ug	96
79)	Benzo(g,h,i)perylene	49.46	276.0	6359^	126.02	ug	79

* Compound is ISTD

mc 2/9/93



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Misc: 0060002MS HP5970C;011993;012093;LLS;1;;7.4;C0953 BTL# 8

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 21:55
Injected at: 930202 21:00

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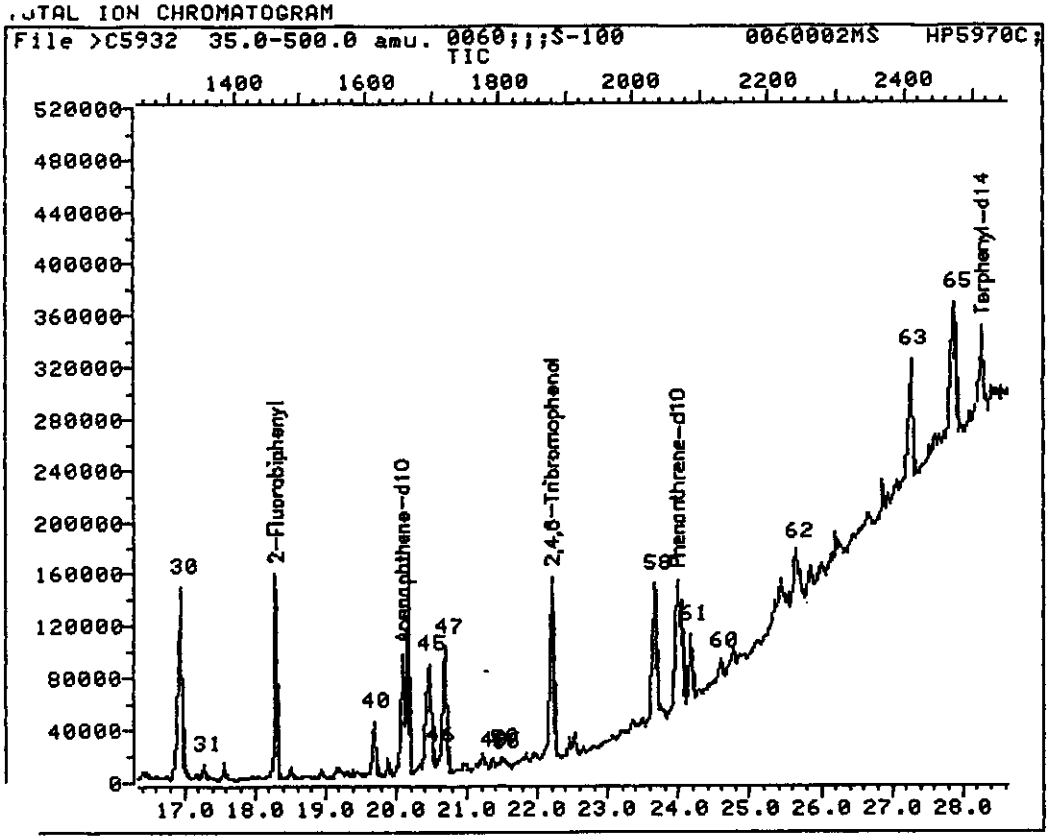
TOTAL ION CHROMATOGRAM



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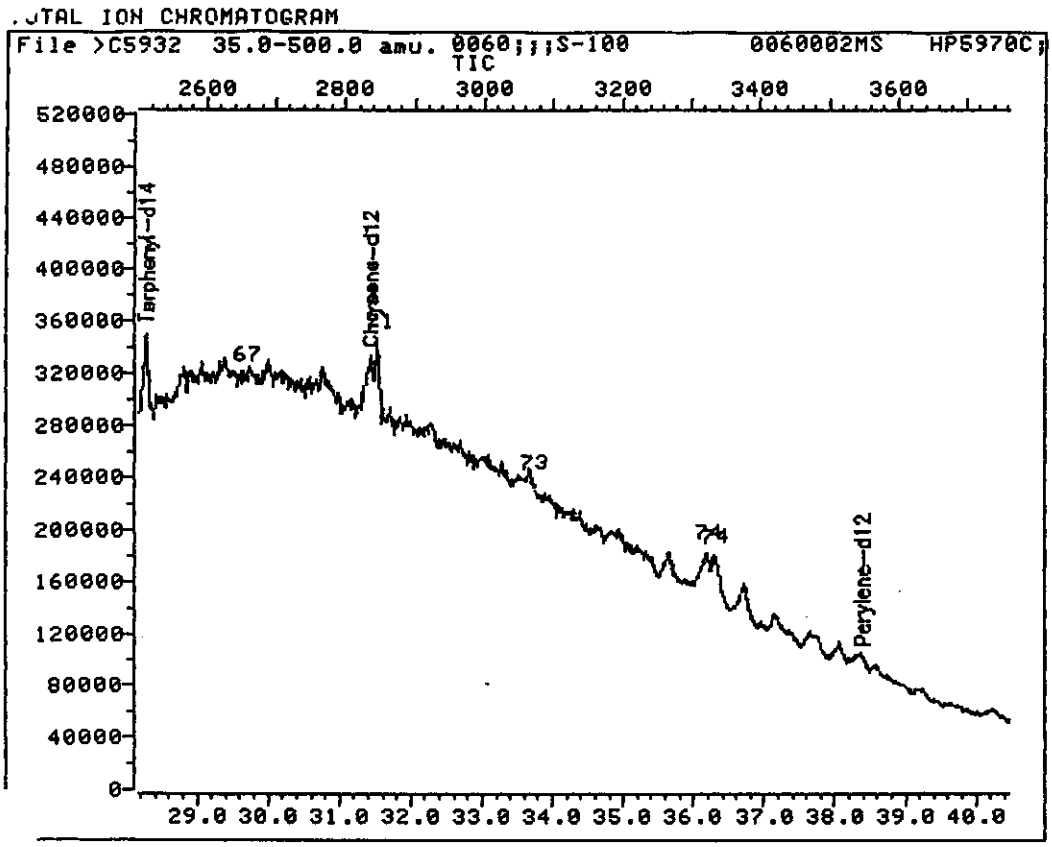
Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 21:55
Injected at: 930202 21:00

TIC page 2 of 4



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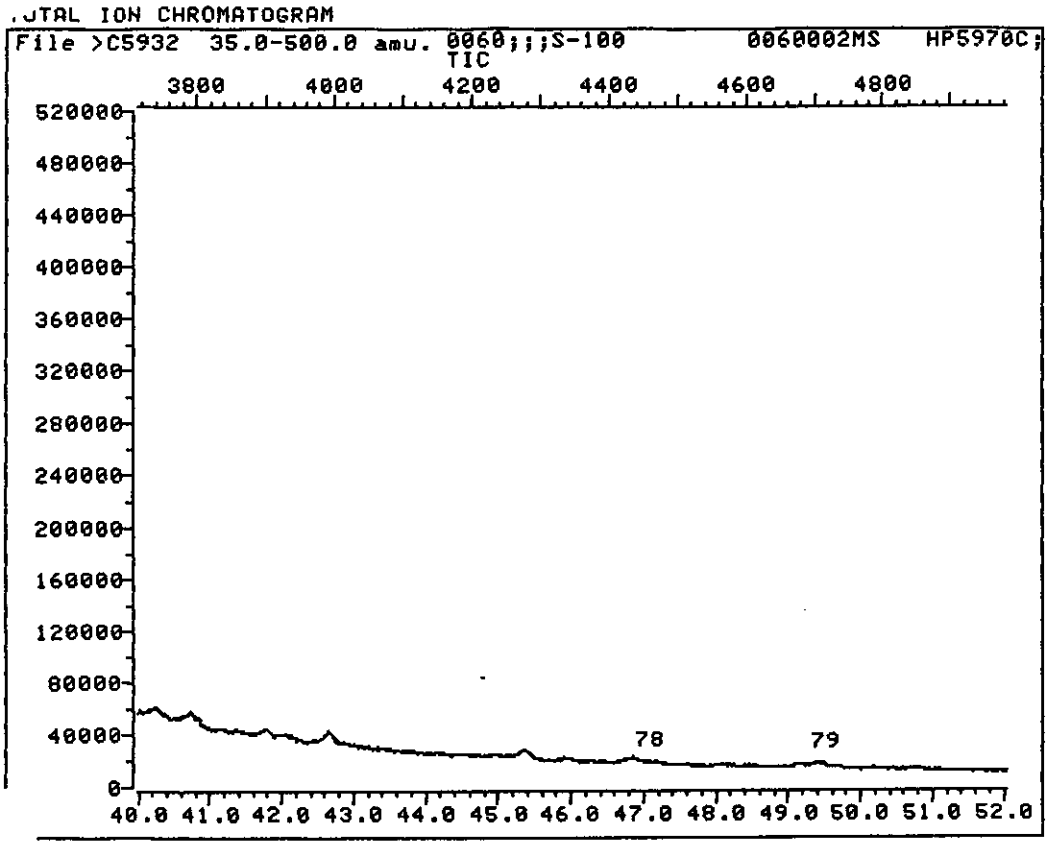
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 21:55
Injected at: 930202 21:00

TIC page 3 of 4



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Misc: 0060002MS HP5970C;011993;012093;LLS;1;;7.4;C0953 BTL# 8

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 21:55
Injected at: 930202 21:00

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MSD 0621

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5933.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	1900	
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	1300	
91-20-3	Naphthalene	77	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	81	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	54	J
208-96-8	Acenaphthylene	540	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	1600	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100MSD 0622

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL CRC Z1121203 Lab Sample ID: 0060002MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5933.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	2900	
132-64-9	Dibenzofuran	62	J
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	80	J
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	480	
120-12-7	Anthracene	370	J
86-74-8	Carbazole	270	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	950	
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	760	
218-01-9	Chrysene	1000	
117-81-7	bis(2-Ethylhexyl)phthalate	270	JB
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	680	
50-32-8	Benzo(a)pyrene	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	330	J
53-70-3	Dibenz(a,h)anthracene	60	J
191-24-2	Benzo(g,h,i)perylene	220	J

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930202 22:56
Output File: ^C5933::QT Injected at: 930202 22:01
Data File: >C5933::C4 Dilution Factor: 18.94000
Name: 0060;;;S-100
Misc: 0060002MSD HP5970C;011993;012093;LLS;1;;7.4;C0953 BTL# 9

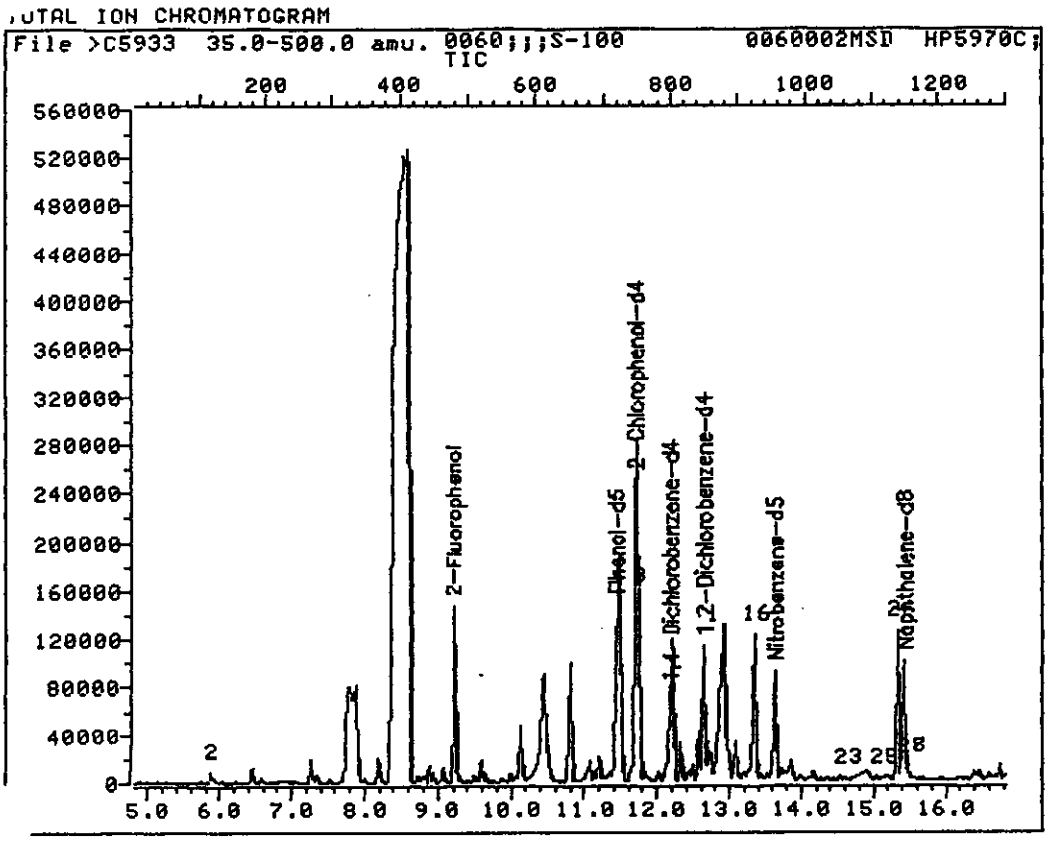
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.18	151.8	23506	40.00	ug	96
2)	Pyridine	5.87	52.0	7950	206.65	ug	94
3)	2-Chlorophenol-d4	11.70	132.0	67937	1813.53	ug	97
4)	2-Fluorophenol	9.21	111.8	67090	1844.22	ug	90
5)	Phenol-d5	11.44	98.8	94373	1933.72	ug	85
6)	Phenol	11.47	93.9	95710	1914.79	ug	97
8)	2-Chlorophenol	11.74	127.8	73843	1922.13	ug	89
10)	1,4-Dichlorobenzene	12.22	145.7	51251	1217.52	ug	88
11)	1,2-Dichlorobenzene-d4	12.64	152.0	32164	1141.14	ug	91
16)	N-Nitroso-di-n-propylamine	13.33	69.9	56218	1429.87	ug	88
1	*Naphthalene-d8	15.43	135.9	96227	40.00	ug	99
19)	Nitrobenzene-d5	13.63	81.8	60535	1066.42	ug	88
~~23)~~	~~2,4-Dimethylphenol~~	~~14.61~~	~~186.8~~	~~359~~	~~7.21~~	~~ug~~	~~82~~
~~25)~~	~~2,4-Dichlorophenol~~	~~15.18~~	~~161.7~~	~~434~~	~~11.12~~	~~ug~~	~~92~~
26)	1,2,4-Trichlorobenzene	15.32	179.7	54551	1310.75	ug	96
27)	Naphthalene	15.47	127.9	9171	77.14	ug	86
~~28)~~	~~4-Chloroaniline~~	~~15.47~~	~~126.8~~	~~1383^~~	~~165.30~~	~~ug~~	~~30~~
30)	4-Chloro-3-methylphenol	16.95	106.9	114905	2430.34	ug	87
31)	2-Methylnaphthalene	17.28	141.9	7115	80.99	ug	95
32)	*Acenaphthene-d10	20.08	163.9	67553	40.00	ug	98
36)	2-Fluorobiphenyl	18.30	171.8	140489	1316.38	ug	96
39)	Dimethylphthalate	19.47	162.8	6621	54.35	ug	92
40)	Acenaphthylene	19.68	152.0	71014	542.57	ug	95
43)	Acenaphthene	20.17	152.9	146476	1573.87	ug	90
45)	4-Nitrophenol	20.46	108.8	39893	2882.99	ug	97
46)	Dibenzofuran	20.58	167.8	8239	61.71	ug	96
47)	2,4-Dinitrotoluene	20.70	164.8	60271	1384.34	ug	98
~~48)~~	~~Diethylphthalate~~	~~21.33~~	~~148.8~~	~~2195~~	~~17.32~~	~~ug~~	~~85~~
50)	Fluorene	21.50	165.9	6997	79.78	ug	80
52)	2,4,6-Tribromophenol	22.19	329.6	79379	2601.76	ug	89
53)	*Phenanthrene-d10	23.99	187.9	149079	40.00	ug	99
~~55)~~	~~N-Nitrosodiphenylamine (1)~~	~~21.99~~	~~168.9~~	~~226~~	~~3.79~~	~~ug~~	~~83~~
58)	Pentachlorophenol	23.66	265.6	58611	1619.26	ug	87
59)	Phenanthrene	24.04	177.9	90708	479.77	ug	94
60)	Carbazole	24.60	166.8	21817	267.66	ug	98
61	Anthracene	24.17	177.9	72927	372.62	ug	99
~~63)~~	~~Di-n-butylphthalate~~	~~25.65~~	~~148.8~~	~~14733~~	~~52.11~~	~~ug~~	~~94~~
63)	Fluoranthene	27.26	201.9	205149	949.45	ug	96
64)	*Chrysene-d12	31.46	240.0	85664	40.00	ug	96
65)	Pyrene	27.89	201.9	319126	2002.61	ug	95
66)	Terphenyl-d14	28.28	244.0	180945	1493.04	ug	92

	Compound	R.T.	Q ion	Area	Conc	Units	q
69)	Benzo(a)anthracene	31.37	228.0	92184	755.80	ug	92
70)	Chrysene	31.55	228.0	105649	1053.33	ug	97
71)	bis(2-Ethylhexyl)phthalate	31.55	148.8	27857	266.67	ug	83
72)	*Perylene-d12	38.35	264.0	29336M	40.00	ug	99
~~73)~~	~~Di-n-octylphthalate~~	~~34.18~~	~~148.9~~	~~3085~~	~~37.52~~	~~ug~~	~~94~~
74)	Benzo(b)fluoranthene	36.15	252.0	51081	995.78	ug	97
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.28~~	~~252.0~~	~~30105^~~	~~586.87~~	~~ug~~	~~96~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~36.15~~	~~252.0~~	~~51081~~	~~1150.55~~	~~ug~~	~~98~~
75)	Benzo(k)fluoranthene	36.28	252.0	30105^	682.80	ug	95
76)	Benzo(a)pyrene	37.74	252.0	40816	996.18	ug	90
77)	Indeno(1,2,3-cd)pyrene	46.87	276.0	10835	333.19	ug	94
78)	Dibenz(a,h)anthracene	47.09	278.0	1937	59.60	ug	98
79)	Benzo(g,h,i)perylene	49.42	276.0	7383	217.93	ug	72

* Compound is ISTD

amc 2/9/93



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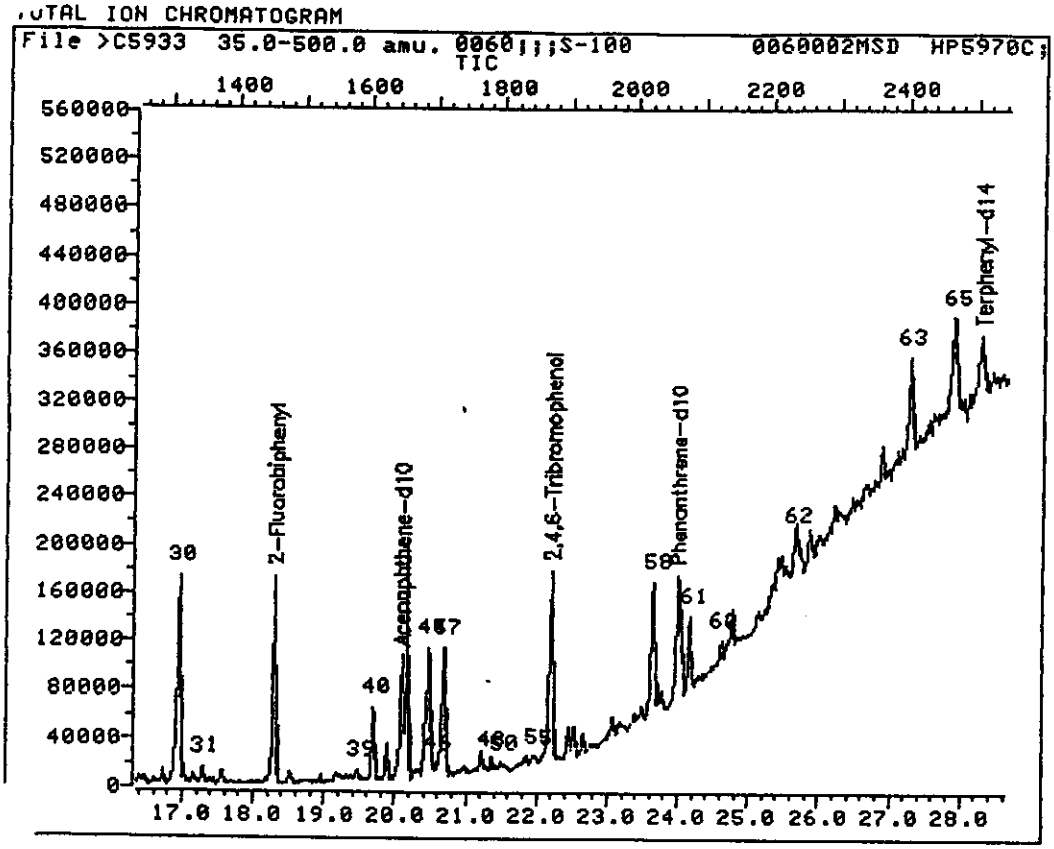
Misc: 0060002MSD HP5970C;011993;012093;LLS;1;;7.4;C0953 BTL# 9

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 22:56
Injected at: 930202 22:01

TIC page 1 of 4

TOTAL ION CHROMATOGRAM



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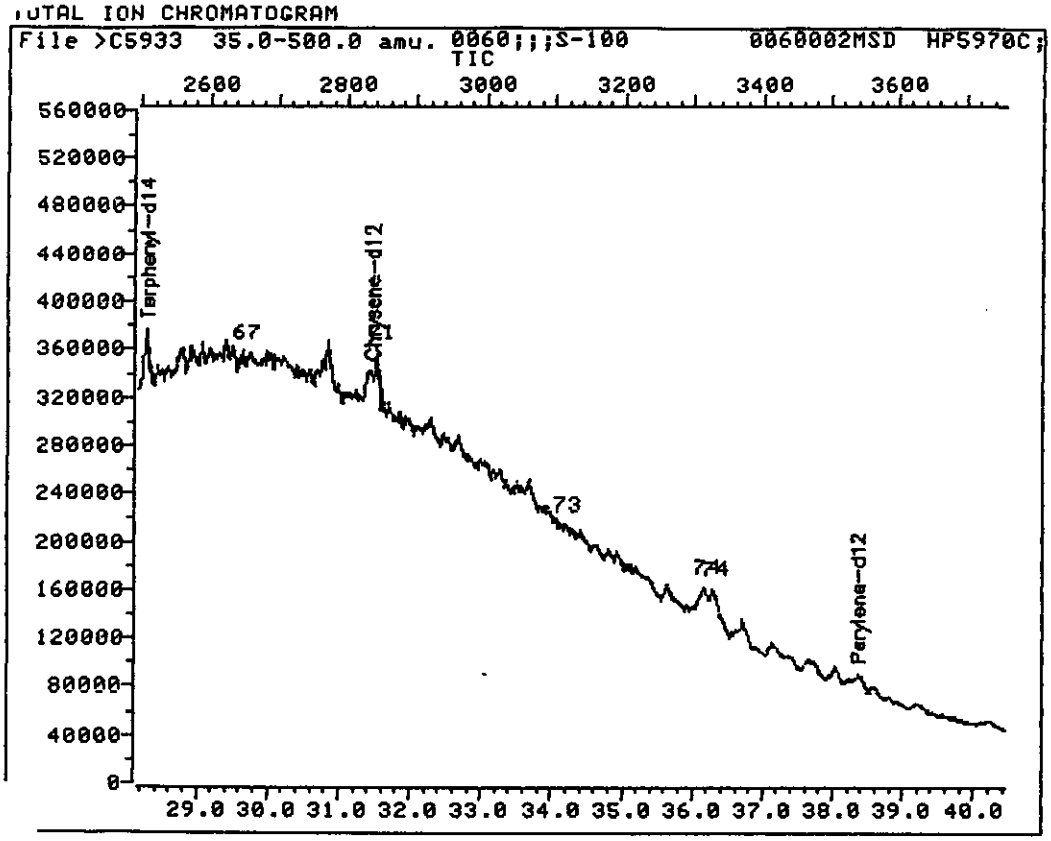
Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 22:56
Injected at: 930202 22:01

TIC page 2 of 4

TOTAL ION CHROMATOGRAM



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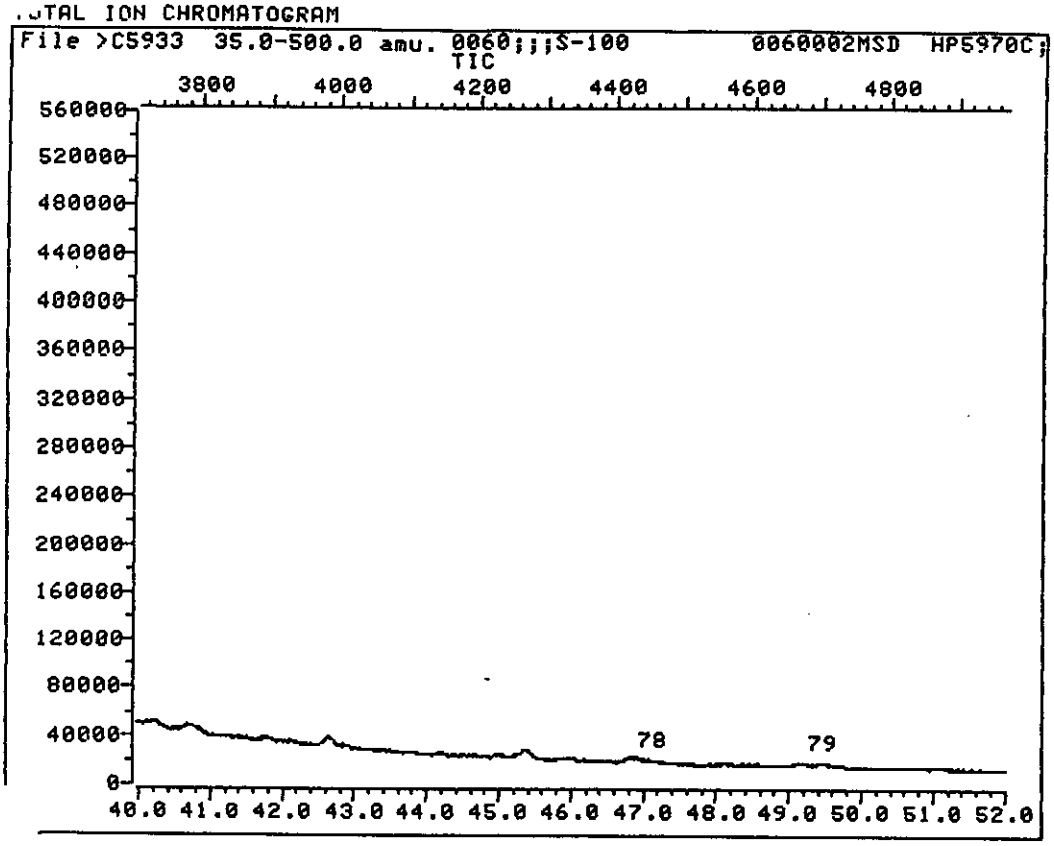
Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 22:56
Injected at: 930202 22:01

TIC page 3 of 4

TOTAL ION CHROMATOGRAM



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Misc: 0060002MSD HP5970C;011993;012093;LLS;1;;7.4;C0953 BTL# 9

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930202 15:36

Operator ID: MSC
Quant Time: 930202 22:56
Injected at: 930202 22:01

TIC page 4 of 4

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHECKSTD 0629

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002STD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5914.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	
111-44-4	bis(2-Chloroethyl)ether	1700	
95-57-8	2-Chlorophenol	1600	
541-73-1	1,3-Dichlorobenzene	1600	
106-46-7	1,4-Dichlorobenzene	1500	
95-50-1	1,2-Dichlorobenzene	1500	
95-48-7	2-Methylphenol	1900	
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	
106-44-5	4-Methylphenol	1900	
621-64-7	N-Nitroso-di-n-propylamine	1900	
67-72-1	Hexachloroethane	1500	
98-95-3	Nitrobenzene	1800	
78-59-1	Isophorone	2100	
88-75-5	2-Nitrophenol	1900	
105-67-9	2,4-Dimethylphenol	1600	
111-91-1	bis(2-Chloroethoxy)methane	1900	
120-83-2	2,4-Dichlorophenol	1900	
120-82-1	1,2,4-Trichlorobenzene	1600	
91-20-3	Naphthalene	1700	
106-47-8	4-Chloroaniline	4700	
87-68-3	Hexachlorobutadiene	1500	
59-50-7	4-Chloro-3-methylphenol	2400	
91-57-6	2-Methylnaphthalene	1600	
77-47-4	Hexachlorocyclopentadiene	1200	
88-06-2	2,4,6-Trichlorophenol	2100	
95-95-4	2,4,5-Trichlorophenol	1900	
91-58-7	2-Chloronaphthalene	1700	
88-74-4	2-Nitroaniline	2600	
131-11-3	Dimethylphthalate	2100	
208-96-8	Acenaphthylene	1800	
606-20-2	2,6-Dinitrotoluene	1900	
99-09-2	3-Nitroaniline	16000	
83-32-9	Acenaphthene	1700	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO 0630

QCCHECKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002STD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5914.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2900	
100-02-7	4-Nitrophenol	2700	
132-64-9	Dibenzofuran	1700	
121-14-2	2,4-Dinitrotoluene	2200	
84-66-2	Diethylphthalate	1900	B
7005-72-3	4-Chlorophenyl-phenylether	1400	
86-73-7	Fluorene	1700	
100-01-6	4-Nitroaniline	5400	
534-52-1	4,6-Dinitro-2-methylphenol	2700	
86-30-6	N-Nitrosodiphenylamine (1)	2800	
101-55-3	4-Bromophenyl-phenylether	2000	
118-74-1	Hexachlorobenzene	2000	
87-86-5	Pentachlorophenol	2600	
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	2000	
86-74-8	Carbazole	6700	
84-74-2	Di-n-butylphthalate	2100	B
206-44-0	Fluoranthene	2300	
129-00-0	Pyrene	2200	
85-68-7	Butylbenzylphthalate	2100	B
91-94-1	3,3'-Dichlorobenzidine	3300	
56-55-3	Benzo(a)anthracene	2400	
218-01-9	Chrysene	2000	
117-81-7	bis(2-Ethylhexyl)phthalate	1700	B
117-84-0	Di-n-octylphthalate	2200	
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	1300	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	790	
53-70-3	Dibenz(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1200	

2/18/93

QUANT REPORT

Operator ID: MSC Quant Rev: 6 Quant Time: 930201 15:33
Output File: ^C5914::QT Injected at: 930201 14:39
Data File: >C5914::C5 Dilution Factor: 16.67000
Name: 0060;;;QC CHECK STD
Misc: 0060002STD HP5970C;011993;012093;LLS;1;;;C0952 BTL# 2

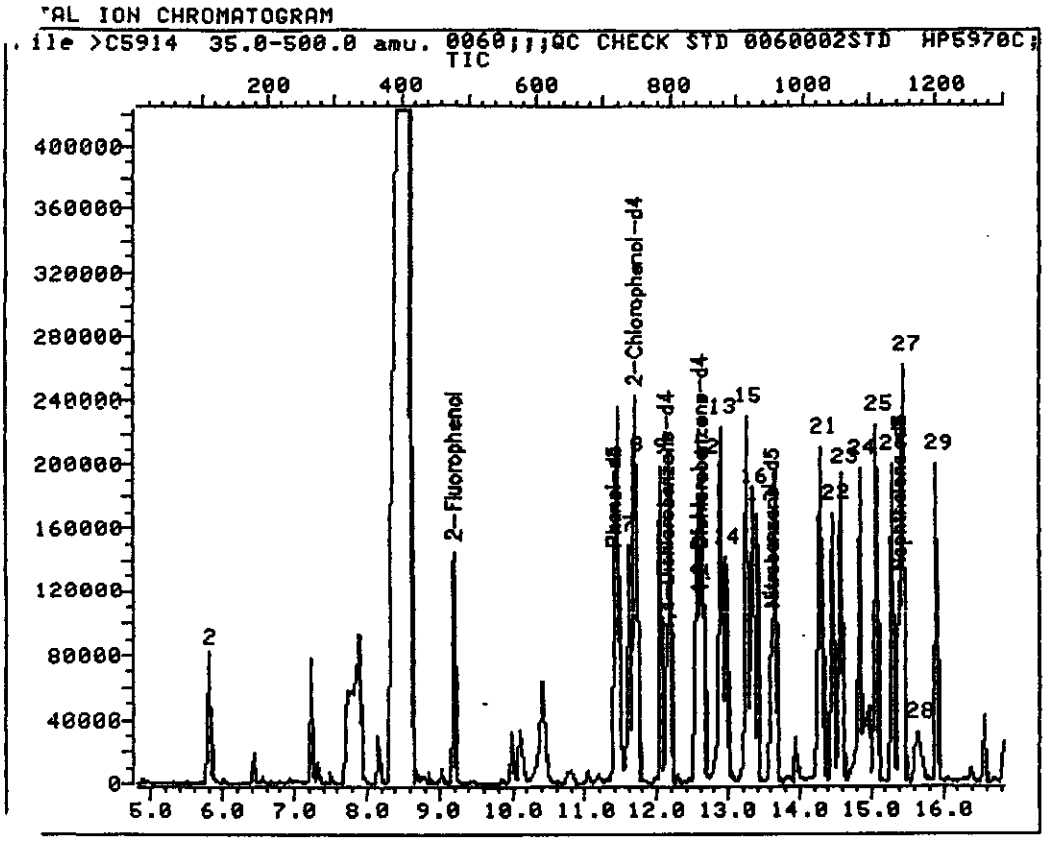
ID File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	12.13	151.8	30028	40.00	ug	95
2)	Pyridine	5.81	52.0	11559	215.44	ug	87
3)	2-Chlorophenol-d4	11.68	132.0	67077	1168.27	ug	96
4)	2-Fluorophenol	9.19	111.8	62758	1250.96	ug	82
5)	Phenol-d5	11.40	98.8	94952	1308.74	ug	87
6)	Phenol	11.43	93.9	130725	1801.05	ug	89
7)	bis(2-Chloroethyl)ether	11.61	92.7	111685	1673.53	ug	84
8)	2-Chlorophenol	11.72	127.8	97011	1578.70	ug	88
9)	1,3-Dichlorobenzene	12.05	145.8	99293	1565.88	ug	94
10)	1,4-Dichlorobenzene	12.18	145.7	98296	1506.64	ug	90
11)	1,2-Dichlorobenzene-d4	12.60	152.0	33017	810.19	ug	91
12)	1,2-Dichlorobenzene	12.65	145.7	89487	1497.04	ug	93
13)	2-Methylphenol	12.88	107.8	96707	1897.42	ug	90
14)	2,2'-oxybis(1-Chloropropane)	12.95	44.8	169282	1874.25	ug	79
15)	4-Methylphenol	13.25	107.8	102622	1878.68	ug	94
16)	N-Nitroso-di-n-propylamine	13.34	69.9	119163	1922.55	ug	78
17)	Hexachloroethane	13.40	116.7	45037	1509.27	ug	88
18)	*Naphthalene-d8	15.39	135.9	122436	40.00	ug	96
19)	Nitrobenzene-d5	13.61	81.8	70339	905.87	ug	87
20)	Nitrobenzene	13.66	76.8	138063	1778.56	ug	83
21)	Isophorone	14.29	81.8	318957	2139.56	ug	92
22)	2-Nitrophenol	14.47	138.9	74828	1874.71	ug	87
23)	2,4-Dimethylphenol	14.59	106.8	113270	1639.29	ug	89
24)	bis(2-Chloroethoxy)methane	14.84	92.8	160907	1910.42	ug	89
25)	2,4-Dichlorophenol	15.07	161.7	105351	1881.74	ug	86
26)	1,2,4-Trichlorobenzene	15.28	179.7	97527	1567.37	ug	98
27)	Naphthalene	15.44	127.9	291943	1713.01	ug	92
28)	4-Chloroaniline	15.63	126.8	44992	4675.56	ug	98
29)	Hexachlorobutadiene	15.91	224.6	52485	1538.59	ug	99
30)	4-Chloro-3-methylphenol	16.90	106.9	162589	2358.70	ug	87
31)	2-Methylnaphthalene	17.24	141.9	203634	1570.92	ug	95
32)	*Acenaphthene-d10	20.04	163.9	80552	40.00	ug	98
33)	Hexachlorocyclopentadiene	17.83	236.6	59886	1246.76	ug	89
34)	2,4,6-Trichlorophenol	18.05	195.8	106760	2073.86	ug	90
35)	2,4,5-Trichlorophenol	18.15	195.8	109994	1869.56	ug	95
36)	2-Fluorobiphenyl	18.26	171.8	147233	1004.97	ug	95
37)	2-Chloronaphthalene	18.53	161.8	222203	1701.39	ug	89
38)	2-Nitroaniline	18.89	64.9	143576	2648.76	ug	92
39)	Dimethylphthalate	19.45	162.8	375539	2120.24	ug	92
40)	Acenaphthylene	19.64	152.0	342365	1756.49	ug	97
41)	2,6-Dinitrotoluene	19.64	164.8	72296	1888.16	ug	74
42)	3-Nitroaniline	19.98	137.8	54630	26344.87	ug	79
43)	Acenaphthene	20.14	152.9	256876	1735.75	ug	92

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	2,4-Dinitrophenol	20.26	183.8	57502	2938.53	ug	92
45)	4-Nitrophenol	20.43	108.8	59904	2721.83	ug	81
46)	Dibenzofuran	20.55	167.8	342434	1743.00	ug	86
47)	2,4-Dinitrotoluene	20.68	164.8	138330	2176.00	ug	89
48)	Diethylphthalate	21.34	148.8	384854	1913.66	ug	92
49)	4-Chlorophenyl-phenylether	21.46	203.9	101613	1459.79	ug	96
50)	Fluorene	21.49	165.9	231146	1677.24	ug	93
51)	4-Nitroaniline	21.65	137.9	83341	5453.08	ug	97
52)	2,4,6-Tribromophenol	22.15	329.6	77265	1677.21	ug	95
53)	*Phenanthrene-d10	23.94	187.9	142838	40.00	ug	93
54)	4,6-Dinitro-2-methylphenol	21.76	197.9	78722	2691.35	ug	95
55)	N-Nitrosodiphenylamine (1)	21.81	168.9	204692	2792.45	ug	95
56)	4-Bromophenyl-phenylether	22.73	247.9	103239	1973.63	ug	83
57)	Hexachlorobenzene	23.15	283.6	140163	1992.27	ug	90
58)	Pentachlorophenol	23.59	265.6	103823	2562.68	ug	88
59)	Phenanthrene	24.01	177.9	462304	2126.60	ug	96
60)	Carbazole	24.55	166.8	430699	6692.97	ug	99
61)	Anthracene	24.14	177.9	433115	1984.31	ug	97
62)	Di-n-butylphthalate	25.58	148.8	646859	2109.71	ug	98
63)	Fluoranthene	27.19	201.9	531437	2280.83	ug	95
64)	*Chrysene-d12	31.28	240.0	112558	40.00	ug	94
65)	Pyrene	27.78	201.9	538889	2253.33	ug	96
66)	Terphenyl-d14	28.16	244.0	227140	1224.29	ug	93
6	Butylbenzylphthalate	29.55	148.8	285535	2115.33	ug	93
68)	3,3'-Dichlorobenzidine	31.13	251.9	99529	3261.12	ug	87
69)	Benzo(a)anthracene	31.21	228.0	489541	2360.16	ug	97
70)	Chrysene	31.36	228.0	354951	1985.26	ug	98
71)	bis(2-Ethylhexyl)phthalate	31.42	148.8	298395	1669.01	ug	92
72)	*Perylene-d12	38.11	264.0	123548	40.00	ug	95
73)	Di-n-octylphthalate	33.96	148.9	742122	2233.15	ug	89
74)	Benzo(b)fluoranthene	35.93	252.0	276410	1249.65	ug	98
~~74)~~	~~Benzo(b)fluoranthene~~	~~36.12~~	~~252.0~~	~~280311~~	~~1267.29~~	~~ug~~	~~99~~
~~75)~~	~~Benzo(k)fluoranthene~~	~~35.93~~	~~252.0~~	~~276410~~	~~1318.70~~	~~ug~~	~~99~~
75)	Benzo(k)fluoranthene	36.12	252.0	280311	1329.20	ug	98
76)	Benzo(a)pyrene	37.82	252.0	512780	2745.38	ug	96
77)	Indeno(1,2,3-cd)pyrene	46.76	276.0	121378	790.91	ug	83
78)	Dibenz(a,h)anthracene	46.93	278.0	206991	1316.70	ug	99
79)	Benzo(g,h,i)perylene	49.28	276.0	183468	1158.94	ug	78

* Compound is ISTD

Conc 2/9/93



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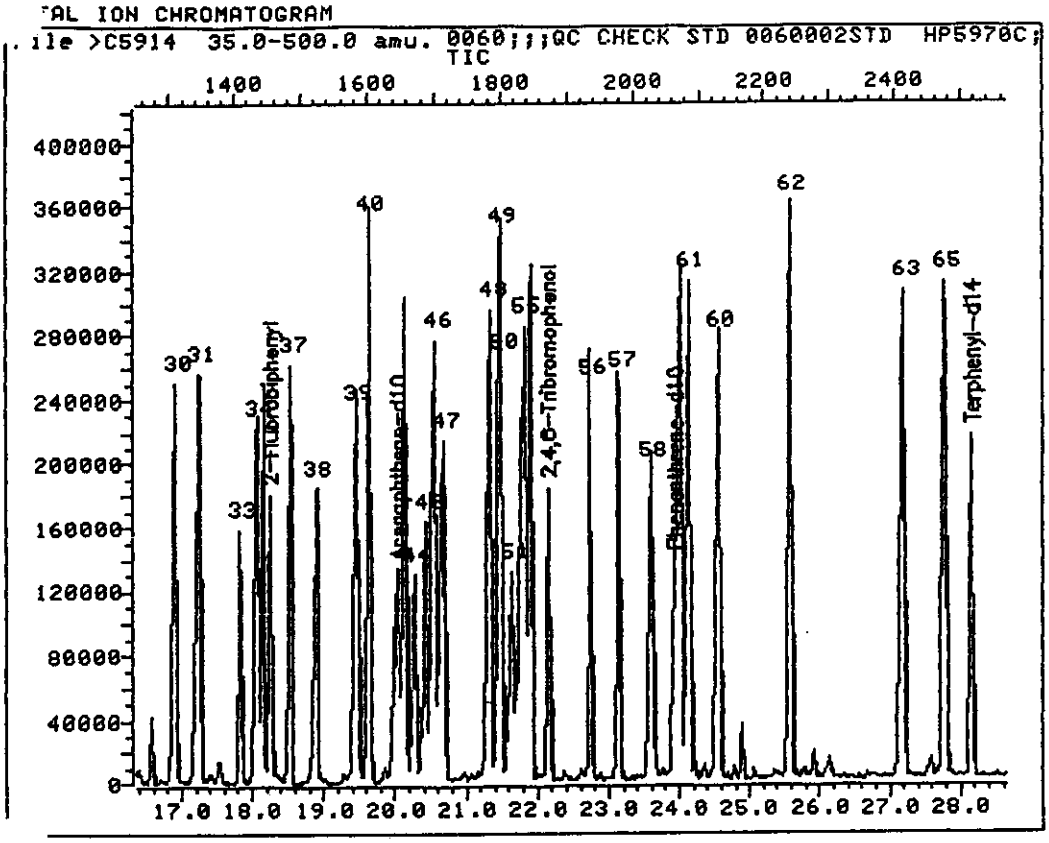
Name: 0060;;;QC CHECK STD
Misc: 0060002STD HP5970C;011993;012093;LLS;1;;;C0952 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 15:33
Injected at: 930201 14:39

TIC page 1 of 4



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Name: 0060;;;QC CHECK STD
Misc: 0060002STD HP5970C;011993;012093;LLS;1;;;C0952 BTL# 2

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Last Calibration: 930201 13:46

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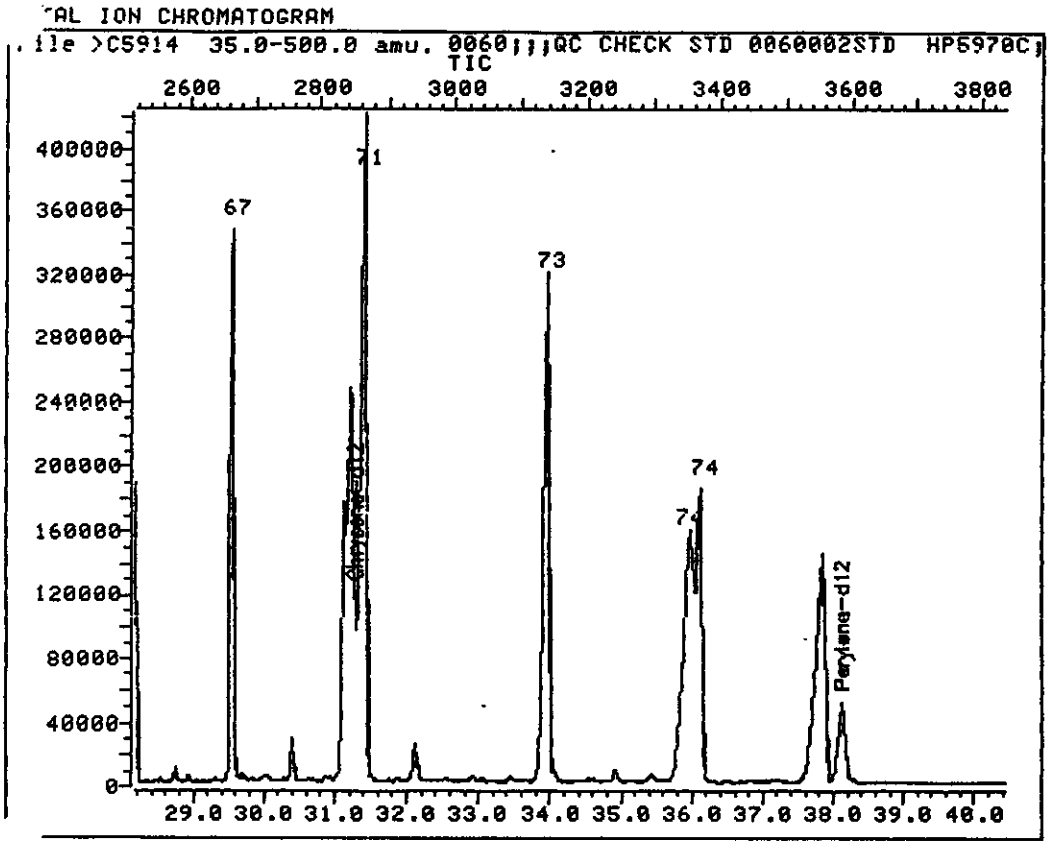
TIC page 2 of 4



Data File: >C5914::C5 Quant Output File: ^C5914::QT
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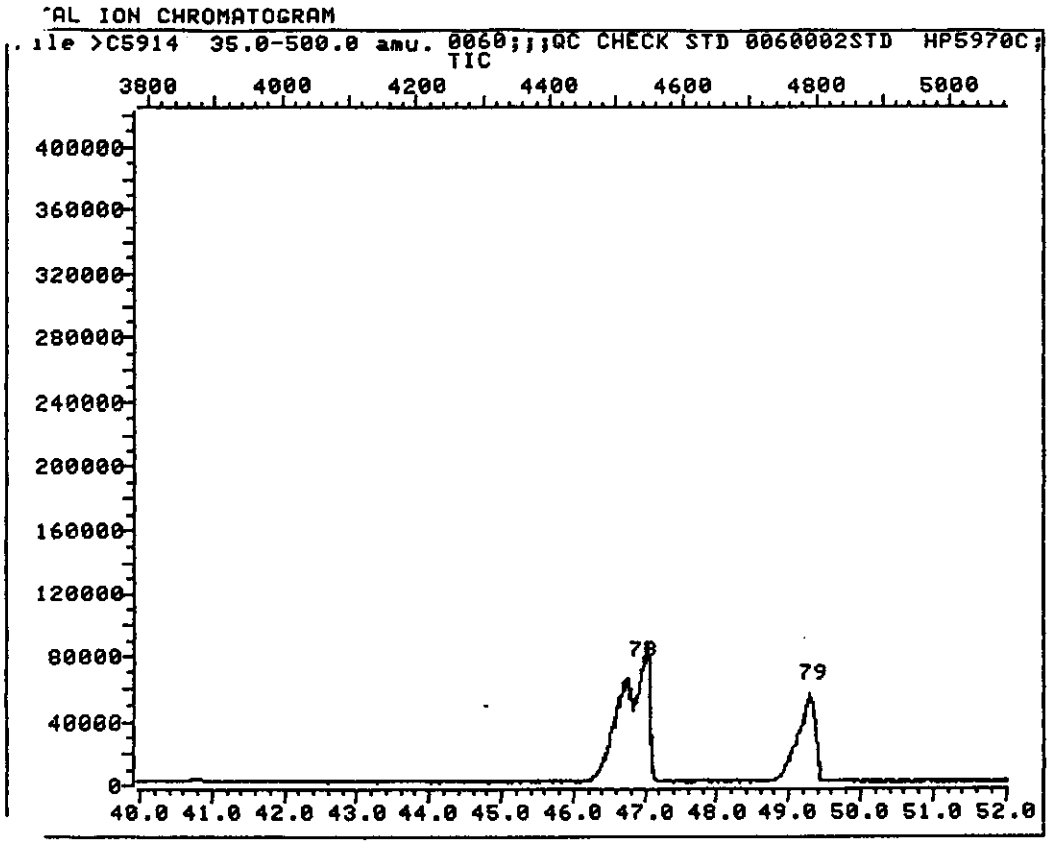
Misc: 0060002STD HP5970C;011993;012093;LLS;1;;;C0952 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 15:33
Injected at: 930201 14:39

TIC page 3 of 4



Data File: >C5914::C5 Quant Output File: ^C5914::QT
Name: 0060;;;QC CHECK STD
Misc: 0060002STD HP5970C;011993;012093;LLS;1;;;C0952 BTL# 2

Id File: I_EPA::N1
Title: CLP-OLM01.8 BNA COMPOUNDS
Last Calibration: 930201 13:46

Operator ID: MSC
Quant Time: 930201 15:33
Injected at: 930201 14:39

TIC page 4 of 4

on @ 4:00pm

IEA
00 MONROE TURNPIKE
CT 06468 (203) 452-8200

ORGANIC EXTRACTION
AQUEOUS/SOLID MATRIX

[redacted]

Page # 5

Extraction Date 01/21/93
Finish Date 01/22/93
O.Sur Surrogate Code EX:112092; 849C
Spike Code —
Reviewed By

Q BNA 390
MS/MSD —

HeCl2 Lot BD388
Hexane Lot —

Alumina Lot —
Florisil Lot —

Reagent H2O Lot RW:011993
Acetone Lot —
Na2SO4 Lot K02-4KJPM

H2SO4 Lot E33045
NaOH Lot E20939

TAM Shimadzu Mallard

TAM 1/21

Client	Lab ID	Sign out COC	CL2 res	Init pH H2O	Init Wt/Vol	Sample Color & Texture	Surr Init	Spike Init	Ext Method	Ext By	C/U	Int Conc	Vf	Color of Ext	Conc/ Scored By	pH	% Solids Data: Tare	Wet wt	Dry wt	% Solids	Location: Fzr	Tray	Slot	Surr Scrn	Comments
nt	0121-BOS		~~100~~	Neut	1000 ml	clear	TAM	N/A	Cont	TAM	NO	N/A	1.0	CLEAR	—	N/A	N/A	N/A	N/A	N/A	III	III	9B		SBHK 53
x/Amtrak	0060-6	TAM	↓	↓	990 ml	↓	↓	↓	↓	↓	↓	1	1	1	1	1	1	1	1	1	1	1	1		

MADE IN MEXICO
Wilson Jones Company Chicago, 60648

0637

IEA
...O MONROE TURNPIKE
...T 06468 (203) 452-8200

ORGANIC EXTRACTION LOG
AQUEOUS/SOLID MATRIX

Page # [illegible]

...TC S:1 BUA
...S/MSD

MeCl2 Lot B003
Hexane Lot –

Alumina Lot /
Florisil Lot /

Reagent H2O Lot
Acetone Lot –B040
Na2SO4 Lot [illegible]

H2SO4 Lot /
NaOH Lot /

Extraction Date [illegible]
Finish Date 1/25/[illegible]
Surrogate Code [illegible]
Spike Code [illegible]
Reviewed By [illegible]

...lient	Lab ID	Sign out COC	CL2 res	Init pH H2O	Init Wt/Vol	Sample Color & Texture	Surr Init	Spike Init	Ext Method	Ext By	C/U	Int Conc	Vf	Color of Ext	Conc/Scored By	pH	% Solids Data: Tare	Wet wt	Dry wt	% Solids	Location: Fzr	Tray	Slot	Surr Scrn	Comments
/	COC-B03	HA	LA	LA	30.0	wht	JB	LA	Sux	JB	GC	JB	.5ml	clear	MC						31	III	10C		51
	-B04																								52
	CC60-2MSB							JB														III	10C		
	-2MSBL																								
	-2SD													bright yellow											(Unl [illegible]
	-2SEX																								
x/Am	CC60-1	JB				S.Fil		LA						orange yellow		5.0	1.55	22.47	19.82						
	-1r																/	/	/	/			10D		
	-2													brown		7.4	1.62	23.43	20.88						
	-2r																/	/	/	/					
	-3													brown		7.3	1.58	20.06	17.53						
	-3x																/	/	/	/					
	-4													brown		7.0	1.61	21.96	19.44						
	-4x																/	/	/	/			10E		
	-5															7.7	1.55	22.52	18.85						Not Required JB 1/21
	2-4MS							JB						brown			1.62	23.43					10E		
	-4MSX																								
	-4MSD																								
	1-4MDx																								
	JB 1/1																								

0638

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