Buffalo Weaving

356902

GCMS SEMIVOLATILES

SVOC

Ecology and Environment, Inc.
Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481
Test Code: 1_8270C_3520C_TCL_W
Batch ID: MOLLY_030717A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Semivolatile Organics by Method 8270C

Sample ID	Type	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14		
0307090-03C	SAMP	81	141	45	89	62	130		
0307090-04C	SAMP	92	143	63	104	68	130		
LCS-200302830	LCS	108	105	83	106	98	138		
MB-200302830	MBLK	110	108	95	124	103	147		

Acronym		Surrogate	QC Limits
NO2BZD5	=	Nitrobenzene-d5	45-118
PH246BR	=	2,4,6-Tribromophenol	32-162
PH2F	=	2-Fluorophenol	15-142
PHD5	=	Phenol-d5	18-136
PHEN2F	=	2-Fluorobiphenyl	38-129
PHEND14	=	Terphenyl-d14	10-154

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

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Batch ID: MOLLY_030718A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Semivolatile Organics by Method 8270C

Sample ID	Type	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14		
0307090-03CMS	MS	89	123	52	82	58	130		
0307090-03CMSD	MSD	110	147	57	108	83	107		
0307090-04C	DL	92	113	52	81	80	56		

Acronym		Surrogate	QC Limits
NO2BZD5	=	Nitrobenzene-d5	45-118
PH246BR	=	2,4,6-Tribromophenol	32-162
PH2F	=	2-Fluorophenol	15-142
PHD5	=	Phenol-d5	18-136
PHEN2F	=	2-Fluorobiphenyl	38-129
PHEND14	=	Terphenyl-d14	10-154

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

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Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Sample Matrix Spike

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **0307090-03CMS** Client Sample ID: **BBW-W-01** DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030718A** SeqNo: **796438** Analysis Date: **7/18/2003 5:47:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	28.15	3.040	20.40	40.82	0	69	40	110			
A 1,4-Dichlorobenzene	22.29	4.290	20.40	40.82	0	55	36	110			
A 2,4-Dinitrotoluene	57.15	3.670	20.40	40.82	0	140	40	110			M
A 2-Chlorophenol	26.26	5.840	20.40	40.82	0	64	42	110			
A 4-Chloro-3-methylphenol	54.39	5.040	20.40	40.82	0	133	37	110			M
A 4-Nitrophenol	10.22	6.960	51.00	40.82	0	25	36	116			JM
A Acenaphthene	46.98	2.710	20.40	40.82	0	115	34	110			M
A N-Nitrosodi-n-propylamine	43.65	4.060	20.40	40.82	0	107	16	110			
A Pentachlorophenol	58.76	6.530	51.00	40.82	0	144	15	145			
A Phenol	33.06	7.470	20.40	40.82	8.030	61	40	110			
A Pyrene	83.04	2.180	20.40	40.82	10.54	178	25	135			M
S 2,4,6-Tribromophenol	75.46	0	0	61.22	0	123	32	162			
S 2-Fluorobiphenyl	29.47	0	0	51.02	0	58	38	129			
S 2-Fluorophenol	31.97	0	0	61.22	0	52	15	142			
S Nitrobenzene-d5	45.45	0	0	51.02	0	89	45	118			
S Phenol-d5	50.39	0	0	61.22	0	82	18	136			
S Terphenyl-d14	66.55	0	0	51.02	0	130	10	154			

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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NYS ELAP ID#: 10486
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CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **0307090-03CMSD** Client Sample ID: **BBW-W-01** DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030718A** SeqNo: **796437** Analysis Date: **7/18/2003 6:26:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	31.48	2.790	18.70	37.38	0	84	40	110	19.9	20	
A 1,4-Dichlorobenzene	26.57	3.930	18.70	37.38	0	71	36	110	26.2	20	R
A 2,4-Dinitrotoluene	39.10	3.360	18.70	37.38	0	105	40	110	29.0	20	R
A 2-Chlorophenol	29.79	5.350	18.70	37.38	0	80	42	110	21.3	20	R
A 4-Chloro-3-methylphenol	35.96	4.620	18.70	37.38	0	96	37	110	32.3	20	R
A 4-Nitrophenol	ND	6.370	46.70	37.38	0	0	0	0	NC	20	
A Acenaphthene	37.12	2.490	18.70	37.38	0	99	34	110	14.7	20	
A N-Nitrosodi-n-propylamine	37.48	3.720	18.70	37.38	0	100	16	110	6.5	20	
A Pentachlorophenol	53.65	5.980	46.70	37.38	0	144	15	145	0.3	20	
A Phenol	33.47	6.840	18.70	37.38	8.030	68	40	110	10.4	20	
A Pyrene	50.98	2.000	18.70	37.38	10.54	108	25	135	48.6	20	R
S 2,4,6-Tribromophenol	82.47	0	0	56.07	0	147	32	162	0.0	0	
S 2-Fluorobiphenyl	38.76	0	0	46.73	0	83	38	129	0.0	0	
S 2-Fluorophenol	32.18	0	0	56.07	0	57	15	142	0.0	0	
S Nitrobenzene-d5	51.60	0	0	46.73	0	110	45	118	0.0	0	
S Phenol-d5	60.36	0	0	56.07	0	108	18	136	0.0	0	
S Terphenyl-d14	50.07	0	0	46.73	0	107	10	154	0.0	0	

Definitions:

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- M - Matrix Spike Recovery outside limits
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- H - Value Exceeds Maximum Contaminant Level
- N - Single Column Analysis
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value, value may not be accurate
- NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Laboratory Control Spike

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **LCS-200302830** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795990** Analysis Date: **7/17/2003 2:43:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	32.60	1.490	10.00	40.00	0	82	40	110			
A 1,4-Dichlorobenzene	31.70	2.100	10.00	40.00	0	79	36	110			
A 2,4-Dinitrotoluene	35.76	1.800	10.00	40.00	0	89	40	110			
A 2-Chlorophenol	37.17	2.860	10.00	40.00	0	93	42	110			
A 4-Chloro-3-methylphenol	36.16	2.470	10.00	40.00	0	90	37	110			
A 4-Nitrophenol	41.56	3.410	25.00	40.00	0	104	36	116			
A Acenaphthene	37.29	1.330	10.00	40.00	0	93	34	110			
A N-Nitrosodi-n-propylamine	30.13	1.990	10.00	40.00	0	75	16	110			
A Pentachlorophenol	51.18	3.200	25.00	40.00	0	128	15	145			
A Phenol	36.81	3.660	10.00	40.00	0	92	40	110			
A Pyrene	40.88	1.070	10.00	40.00	0	102	25	135			
S 2,4,6-Tribromophenol	62.80	0	0	60.00	0	105	32	162			
S 2-Fluorobiphenyl	48.80	0	0	50.00	0	98	38	129			
S 2-Fluorophenol	49.91	0	0	60.00	0	83	15	142			
S Nitrobenzene-d5	54.15	0	0	50.00	0	108	45	118			
S Phenol-d5	63.77	0	0	60.00	0	106	18	136			
S Terphenyl-d14	69.25	0	0	50.00	0	138	10	154			

Definitions:

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DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
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R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

METHOD BLANK SUMMARY

Work Order: 0307090 **SDG No.:** **Project:** START RFP 3481

Lab File ID: m8345.d **Matrix:(soil/water)** WATER **Lab Sample ID:** MB-200302830

Date Analyzed: 7/17/2003 **Time Analyzed:** 14:03 **Date Extracted:** 7/14/2003

Instrument ID: MOLLY **Test Method:** SW8270C **Prep Method:** SW3520C

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-200302830	LCS-200302830	m8346.d	7/17/2003
02	BBW-W-01	0307090-03C	m8350.d	7/17/2003
03	BBW-W-02	0307090-04C	m8351.d	7/17/2003
04	BBW-W-01	0307090-03CMS	m8367.d	7/18/2003
05	BBW-W-01	0307090-03CMSD	m8368.d	7/18/2003
06	BBW-W-02	0307090-04C DL	m8371.d	7/18/2003

RB 7/30/03

COMMENTS: _____

FORM IV
SW8270C
page 1 of 1

LIMS Version #: 3.1.6.9 - 6/30/2003 12:30:00 PM

Printed: Monday, July 21, 2003 1:21:22 PM

Ecology and Environment, Inc.

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **MB-200302830** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795982** Analysis Date: **7/17/2003 2:03:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,1'-Biphenyl	ND	1.440	10.00								
A 1,2,4-Trichlorobenzene	ND	1.490	10.00								
A 1,2-Dichlorobenzene	ND	1.790	10.00								
A 1,3-Dichlorobenzene	ND	1.940	10.00								
A 1,4-Dichlorobenzene	ND	2.100	10.00								
A 2,2'-Oxybis(1-chloropropane)	ND	2.400	10.00								
A 2,4,5-Trichlorophenol	ND	2.550	25.00								
A 2,4,6-Trichlorophenol	ND	3.150	10.00								
A 2,4-Dichlorophenol	ND	2.660	10.00								
A 2,4-Dimethylphenol	ND	2.970	10.00								
A 2,4-Dinitrophenol	ND	3.030	25.00								
A 2,4-Dinitrotoluene	ND	1.800	10.00								
A 2,6-Dinitrotoluene	ND	1.600	10.00								
A 2-Chloronaphthalene	ND	2.210	10.00								
A 2-Chlorophenol	ND	2.860	10.00								
A 2-Methylnaphthalene	ND	1.770	10.00								
A 2-Methylphenol	ND	3.350	10.00								
A 2-Nitroaniline	ND	1.940	25.00								
A 2-Nitrophenol	ND	3.210	10.00								
A 3,3'-Dichlorobenzidine	ND	3.950	20.00								
A 3-Nitroaniline	ND	2.050	25.00								
A 4,6-Dinitro-2-methylphenol	ND	2.570	25.00								
A 4-Bromophenyl phenyl ether	ND	2.190	10.00								

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NYS ELAP ID#: 10486
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CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **MB-200302830** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795982** Analysis Date: **7/17/2003 2:03:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 4-Chloro-3-methylphenol	ND	2.470	10.00								
A 4-Chloroaniline	ND	1.850	10.00								
A 4-Chlorophenyl phenyl ether	ND	1.800	10.00								
A 4-Methylphenol	ND	2.700	10.00								
A 4-Nitroaniline	ND	2.290	25.00								
A 4-Nitrophenol	ND	3.410	25.00								
A Acenaphthene	ND	1.330	10.00								
A Acenaphthylene	ND	1.290	10.00								
A Acetophenone	ND	1.580	10.00								
A Anthracene	ND	1.120	10.00								
A Atrazine	ND	1.840	10.00								
A Benz(a)anthracene	ND	1.340	10.00								
A Benzaldehyde	ND	1.880	10.00								
A Benzo(a)pyrene	ND	1.140	10.00								
A Benzo(b)fluoranthene	ND	1.960	10.00								
A Benzo(g,h,i)perylene	ND	1.500	10.00								
A Benzo(k)fluoranthene	ND	1.910	10.00								
A Benzoic acid	ND	4.300	25.00								
A Benzyl alcohol	ND	2.170	10.00								
A Bis(2-chloroethoxy)methane	ND	2.350	10.00								
A Bis(2-chloroethyl)ether	ND	2.240	10.00								
A Bis(2-ethylhexyl)phthalate	11.86	3.030	10.00								
A Butyl benzyl phthalate	ND	1.360	10.00								

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Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **MB-200302830** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795982** Analysis Date: **7/17/2003 2:03:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A Caprolactam	ND	1.170	10.00								
A Carbazole	ND	1.290	10.00								
A Chrysene	ND	1.300	10.00								
A Di-n-butyl phthalate	ND	2.340	10.00								
A Di-n-octyl phthalate	ND	3.440	10.00								
A Dibenz(a,h)anthracene	ND	1.370	10.00								
A Dibenzofuran	ND	1.410	10.00								
A Diethyl phthalate	ND	1.340	10.00								
A Dimethyl phthalate	ND	2.050	10.00								
A Fluoranthene	ND	1.800	10.00								
A Fluorene	ND	1.370	10.00								
A Hexachlorobenzene	ND	1.650	10.00								
A Hexachlorobutadiene	ND	1.610	10.00								
A Hexachlorocyclopentadiene	ND	1.310	25.00								
A Hexachloroethane	ND	1.900	10.00								
A Indeno(1,2,3-cd)pyrene	ND	3.460	10.00								
A Isophorone	ND	1.590	10.00								
A N-Nitrosodi-n-propylamine	ND	1.990	10.00								
A N-Nitrosodimethylamine	ND	1.810	10.00								
A N-Nitrosodiphenylamine	ND	1.670	10.00								
A Naphthalene	ND	1.470	10.00								
A Nitrobenzene	ND	1.820	10.00								
A Pentachlorophenol	ND	3.200	25.00								

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Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Ecology and Environment, Inc.

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3520C_TCL_W* Units: *µg/L*

Sample ID: **MB-200302830** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795982** Analysis Date: **7/17/2003 2:03:00 PM** Prep Batch ID: **200302830** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A Phenanthrene	ND	1.300	10.00								
A Phenol	ND	3.660	10.00								
A Pyrene	ND	1.070	10.00								
S 2,4,6-Tribromophenol	64.83	0	0			108	32	162			
S 2-Fluorobiphenyl	51.55	0	0			103	38	129			
S 2-Fluorophenol	57.21	0	0			95	15	142			
S Nitrobenzene-d5	54.77	0	0			110	45	118			
S Phenol-d5	74.18	0	0			124	18	136			
S Terphenyl-d14	73.74	0	0			147	10	154			

Definitions:

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Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	200306304m1
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8110	Date Analyzed:	30-JUN-2003
Fraction:	Semi-VOA	Time Analyzed:	08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.15
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	50.74
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	47.16
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.96
275	10.00 - 30.00% of mass 198	28.26
365	Greater than 1.00% of mass 198	1.73
441	Present, but less than mass 443	7.95
442	Greater than 40.00% of mass 198	56.97
443	17.00 - 23.00% of mass 442	10.40 (18.25) b

a = Value is relative to mass 69
b = Value is relative to mass 442

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8111	30-JUN-2003	08:39
2	SSTD160	m8112	30-JUN-2003	09:17
3	SSTD020	m8113	30-JUN-2003	09:57
4	SSTD120	m8114	30-JUN-2003	10:36
5	SSTD060	m8115	30-JUN-2003	11:16
6	SSTD080	m8116	30-JUN-2003	11:56
7	ICV060	m8118	30-JUN-2003	13:15

INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	200307174m1
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8339	Date Analyzed:	17-JUL-2003
Fraction:	Semi-VOA	Time Analyzed:	10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.12
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	53.52
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	50.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.45
275	10.00 - 30.00% of mass 198	25.00
365	Greater than 1.00% of mass 198	3.63
441	Present, but less than mass 443	5.95
442	Greater than 40.00% of mass 198	48.88
443	17.00 - 23.00% of mass 442	9.88 (20.21) b

a = Value is relative to mass 69
b = Value is relative to mass 442

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8340	17-JUL-2003	10:37
2	MB-200302830	m8345	17-JUL-2003	14:03
3	LCS-200302830	m8346	17-JUL-2003	14:43
4	0307090-03C	m8350	17-JUL-2003	17:22
5	0307090-04C	m8351	17-JUL-2003	18:02

INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	200307184m1
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8360	Date Analyzed:	18-JUL-2003
Fraction:	Semi-VOA	Time Analyzed:	13:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.73
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	50.38
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	49.94
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.40
275	10.00 - 30.00% of mass 198	27.19
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	8.07
442	Greater than 40.00% of mass 198	56.42
443	17.00 - 23.00% of mass 442	12.07 (21.38) b

a = Value is relative to mass 69
b = Value is relative to mass 442

%D>20
Reagents
[illegible]

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8361	18-JUL-2003	13:37
2	0307090-03CMS	m8367	18-JUL-2003	17:47
3	0307090-03CMSD	m8368	18-JUL-2003	18:26
4	0307090-04C DL	m8371	18-JUL-2003	20:25

KK 7/22/03

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc.
Initial Cal ID: COMX40

Job Number: 0307090
Batch Number: 200307174m1

Instrument: molly
Column ID: ZB-5

Cal File ID: m8340
Date Analyzed: 17-JUL-2003

Fraction: Semi-VOA
Time Analyzed: 10:37

Spk Amt Units: ng

	IS #1 Area/Amt	RT	IS #2 Area/Amt	RT	IS #3 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	99444	9.56	366550	12.82	225973	16.62
Upper Limit	198888	10.06	733100	13.32	451946	17.12
Lower Limit	49722	9.06	183275	12.32	112986	16.12
Sample ID:						
MB-200302830	92229	9.57	336387	12.84	210844	16.61
LCS-200302830	101325	9.58	355376	12.84	215236	16.64
0307090-03C	126612	9.56	524486	12.82	515440 *	16.62
0307090-04C	131201	9.56	562265	12.84	529465 *	16.62

IS #1 = 1,4-Dichlorobenzene-d4
IS #2 = Naphthalene-d8
IS #3 = Acenaphthene-d10

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc.
Initial Cal ID: COMX40

Job Number: 0307090
Batch Number: 200307174m1

Instrument: molly
Column ID: ZB-5

Cal File ID: m8340
Date Analyzed: 17-JUL-2003

Fraction: Semi-VOA
Time Analyzed: 10:37

Spk Amt Units: ng

	IS #4 Area/Amt	RT	IS #5 Area/Amt	RT	IS #6 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	455010	19.59	574814	24.86	356452	27.00
Upper Limit	910020	20.09	1149628	25.36	712904	27.50
Lower Limit	227505	19.09	287407	24.36	178226	26.50
Sample ID:						
MB-200302830	421815	19.61	527626	24.87	350980	27.01
LCS-200302830	442776	19.62	548665	24.87	348156	27.02
0307090-03C	1567775 *	19.62	3129228 *	25.03	1325179 *	27.20
0307090-04C	1676252 *	19.65	3223981 *	25.07	1098211 *	27.21

IS #4 = Phenanthrene-d10
IS #5 = Chrysene-d12
IS #6 = Perylene-d12

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc. Initial Cal ID: COMX40

Job Number: 0307090 Batch Number: 200307184m1

Instrument: molly Column ID: ZB-5

Cal File ID: m8361 Date Analyzed: 18-JUL-2003

Fraction: Semi-VOA Time Analyzed: 13:37

Spk Amt Units: ng

	IS #1 Area/Amt	RT	IS #2 Area/Amt	RT	IS #3 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	114648	9.49	414222	12.77	270824	16.56
Upper Limit	229296	9.99	828444	13.27	541648	17.06
Lower Limit	57324	8.99	207111	12.27	135412	16.06
Sample ID:						
0307090-03CMS	134878	9.49	561076	12.77	551569 *	16.57
0307090-03CMSD	138820	9.49	513306	12.77	380569	16.57
0307090-04C DL	141287	9.49	504788	12.77	335979	16.57

KK 1122/03

IS #1 = 1,4-Dichlorobenzene-d4
IS #2 = Naphthalene-d8
IS #3 = Acenaphthene-d10

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name:	Ecology & Environment, Inc.	Initial Cal ID:	COMX40
Job Number:	0307090	Batch Number:	200307184m1
Instrument:	molly	Column ID:	ZB-5
Cal File ID:	m8361	Date Analyzed:	18-JUL-2003
Fraction:	Semi-VOA	Time Analyzed:	13:37
Spk Amt Units:	ng		

	IS #4 Area/Amt	RT	IS #5 Area/Amt	RT	IS #6 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	542462	19.54	687325	24.81	422776	26.94
Upper Limit	1084924	20.04	1374650	25.31	845552	27.44
Lower Limit	271231	19.04	343662	24.31	211388	26.44
Sample ID:						
0307090-03CMS	1709345 *	19.59	3128708 *	25.03	1755119 *	27.17
0307090-03CMSD	1217667 *	19.57	4291462 *	24.98	1548090 *	27.12
0307090-04CDL	745101	19.54	3284151 *	24.86	1805202 *	27.03

KK 7/22/03

IS #4 = Phenanthrene-d10
IS #5 = Chrysene-d12
IS #6 = Perylene-d12

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-03C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1'-Biphenyl	4.14	J	1.44	10.0	µg/L	1	7/17/2003 5:22:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		1.49	10.0	µg/L	1			
1,2-Dichlorobenzene	2.81	J	1.79	10.0	µg/L	1			
1,3-Dichlorobenzene	ND		1.94	10.0	µg/L	1			
1,4-Dichlorobenzene	ND		2.1	10.0 UJ	µg/L	1			
2,2'-Oxybis(1-chloropropane)	ND		2.4	10.0	µg/L	1			
2,4,5-Trichlorophenol	ND		2.55	25.0	µg/L	1			
2,4,6-Trichlorophenol	ND		3.15	10.0	µg/L	1			
2,4-Dichlorophenol	ND		2.66	10.0	µg/L	1			
2,4-Dimethylphenol	ND		2.97	10.0	µg/L	1			
2,4-Dinitrophenol	ND		3.03	25.0	µg/L	1			
2,4-Dinitrotoluene	ND	J	1.8	10.0 UJ	µg/L	1			
2,6-Dinitrotoluene	ND		1.6	10.0	µg/L	1			
2-Chloronaphthalene	ND		2.21	10.0	µg/L	1			
2-Chlorophenol	ND	J	2.86	10.0 UJ	µg/L	1			
2-Methylnaphthalene	69.7	J	1.77	10.0	µg/L	1			
2-Methylphenol	4.75	J	3.35	10.0	µg/L	1			
2-Nitroaniline	ND		1.94	25.0	µg/L	1			
2-Nitrophenol	ND		3.21	10.0	µg/L	1			
3,3'-Dichlorobenzidine	ND		3.95	20.0	µg/L	1			
3-Nitroaniline	ND		2.05	25.0	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		2.57	25.0	µg/L	1			
4-Bromophenyl phenyl ether	ND		2.19	10.0	µg/L	1			
4-Chloro-3-methylphenol	ND	J	2.47	10.0 UJ	µg/L	1			
4-Chloroaniline	ND		1.85	10.0	µg/L	1			
4-Chlorophenyl phenyl ether	ND		1.8	10.0	µg/L	1			
4-Methylphenol	5.26	J	2.7	10.0	µg/L	1			
4-Nitroaniline	ND		2.29	25.0	µg/L	1			
4-Nitrophenol	~~ND~~		~~3.41~~	~~25.0~~ R	µg/L	1			
Acenaphthene	ND		1.33	10.0	µg/L	1			
Acenaphthylene	ND		1.29	10.0	µg/L	1			
Acetophenone	17.1	J	1.58	10.0	µg/L	1			
Anthracene	ND		1.12	10.0	µg/L	1			
Atrazine	ND		1.84	10.0	µg/L	1			
Benz(a)anthracene	9.49	J	1.34	10.0	µg/L	1			
Benzaldehyde	ND		1.88	10.0 UJ	µg/L	1			
Benzo(a)pyrene	3.43	J	1.14	10.0	µg/L	1			

Definitions:

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M - Matrix Spike Recovery outside limits
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B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-03C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		1.96	10.0	µg/L	1			
Benzo(g,h,i)perylene	ND		1.5	10.0	µg/L	1			
Benzo(k)fluoranthene	8.10	J	1.91	10.0	µg/L	1			
Benzoic acid	ND		4.3	25.0	µg/L	1			
Benzyl alcohol	ND		2.17	10.0	µg/L	1			
Bis(2-chloroethoxy)methane	ND		2.35	10.0	µg/L	1			
Bis(2-chloroethyl)ether	ND		2.24	10.0	µg/L	1			
Bis(2-ethylhexyl)phthalate	29.0	~~B~~ UJ	3.03	10.0	µg/L	1			
Butyl benzyl phthalate	ND		1.36	10.0	µg/L	1			
Caprolactam	ND		1.17	10.0	µg/L	1			
Carbazole	2.85	J	1.29	10.0	µg/L	1			
Chrysene	ND		1.3	10.0	µg/L	1			
Di-n-butyl phthalate	ND		2.34	10.0	µg/L	1			
Di-n-octyl phthalate	ND		3.44	10.0	µg/L	1			
Dibenz(a,h)anthracene	ND		1.37	10.0	µg/L	1			
Dibenzofuran	2.13	J	1.41	10.0	µg/L	1			
Diethyl phthalate	ND		1.34	10.0	µg/L	1			
Dimethyl phthalate	ND		2.05	10.0	µg/L	1			
Fluoranthene	9.14	J	1.8	10.0	µg/L	1			
Fluorene	7.25	J	1.37	10.0	µg/L	1			
Hexachlorobenzene	ND		1.65	10.0	µg/L	1			
Hexachlorobutadiene	ND		1.61	10.0	µg/L	1			
Hexachlorocyclopentadiene	ND	J	1.31	25.0 UJ	µg/L	1			
Hexachloroethane	ND		1.9	10.0	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		3.46	10.0	µg/L	1			
Isophorone	ND		1.59	10.0	µg/L	1			
N-Nitrosodi-n-propylamine	ND		1.99	10.0	µg/L	1			
N-Nitrosodimethylamine	ND		1.81	10.0	µg/L	1			
N-Nitrosodiphenylamine	ND		1.67	10.0	µg/L	1			
Naphthalene	21.0	J	1.47	10.0	µg/L	1			
Nitrobenzene	ND		1.82	10.0	µg/L	1			
Pentachlorophenol	ND		3.2	25.0	µg/L	1			
Phenanthrene	18.8	J	1.3	10.0	µg/L	1			
Phenol	8.03	J	3.66	10.0	µg/L	1			
Pyrene	10.5	J	1.07	10.0	µg/L	1			
Surr:2,4,6-Tribromophenol	141			32 - 162	%REC	1	7/17/2003 5:22:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	62			38 - 129	%REC	1			

Definitions:

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B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-03C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	45			15 - 142	%REC	1			
Surr:Nitrobenzene-d5	81			45 - 118	%REC	1			
Surr:Phenol-d5	89			18 - 136	%REC	1			
Surr:Terphenyl-d14	130			10 - 154	%REC	1			

Definitions:

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ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	Weston Solutions, Inc.	**Client Sample ID:**	**BBW-W-01**
Lab Order:	0307090	**Alt. Client ID:**	
Project:	START RFP 3481	**Collection Date:**	7/9/2003 9:30:00 AM
Lab ID:	**0307090-03C**	**Sample Type:** SAMP	**Matrix:** WATER	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3520C_TCL_W

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
108-91-8	Cyclohexanamine	5.21	130	NJ	µg/L	1	86	7/17/2003 5:22:00 PM	MOLLY_030717A	
100-37-8	N,N-Diethyl-2-aminoethanol	6.4	280	NJ	µg/L	1	94			
~~611-14-3~~	Benzene, ~~1-ethyl-2-methyl-~~ substituted	8.31	98	~~NJ~~	µg/L	1	97			
~~3173-53-3~~	~~Cyclohexane, isocyanato-~~ Unknown	9.32	150	~~NJ~~	µg/L	1	52			
~~629-78-7~~	~~Heptadecane (13.021)~~ unknown Alkane	13.02	96	~~NJ~~	µg/L	1	86			
~~766-93-8~~	~~Formamide, N-cyclohexyl-~~ Unknown	13.92	57	~~NJ~~	µg/L	1	62			
~~2809-64-5~~	Naphthalene, ~~1,2,3,4-tetrahydro-5-methyl-~~ substituted	14.02	67	~~NJ~~	µg/L	1	64			
~~629-59-5~~	~~Tridecane~~ Alkane	14.36	110	~~NJ~~	µg/L	1	87			
90-12-0 ~~264-09-5~~	~~Benzocycloheptatriene~~ 1-methylnaphthalene	14.65	66	NJ	µg/L	1	94			
~~4175-54-5~~	Naphthalene, ~~1,2,3,4-tetrahydro-1,4-dime~~ substituted	14.7	64	~~NJ~~	µg/L	1	87			
15111-56-5	Ethyl 3-cyclohexenecarboxylate	14.92	15	NJ	µg/L	1	78			
~~629-59-4~~	~~Tetradecane~~ alkane	15.55	10	~~NJ~~	µg/L	1	94			
~~581-42-0~~	Naphthalene, ~~2,6~~-dimethyl-	15.76	8	~~NJ~~	µg/L	1	98			
~~575-41-7~~	Naphthalene, ~~1,3~~-dimethyl-	15.94	7	~~NJ~~	µg/L	1	97			
~~571-58-4~~	Naphthalene, ~~1,4~~-dimethyl-	16.34	5	~~NJ~~	µg/L	1	94			
~~2245-38-7~~	Naphthalene, ~~4,6,7~~-trimethyl-	17.33	7	~~NJ~~	µg/L	1	90			
77846-83-4	3-Cyclohexene-1-acetic acid, _alpha_-oxo	17.97	5	NJ	µg/L	1	47			
~~3892-00-0~~	~~Pentadecane, 2,6,10-trimethyl-~~ alkane	18.17	7	~~NJ~~	µg/L	1	80			
~~629-78-7~~	~~Heptadecane (18.652)~~	18.65	84	~~NJ~~	µg/L	1	95			
~~544-76-3~~	~~Hexadecane~~	20.43	75	~~NJ~~	µg/L	1	93			
~~18835-33-1~~	~~1-Hexacosene~~ Unknown	25.64	35000	~~NJ~~	µg/L	1	95			
	Aniline	8.89	7		µg/L					

Number TICs Found: 21

Definitions:

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- ND - Not Detected at the Reporting Limit
- B - Analyte found in Method blank
- DNI - Did not Ignite
- J - Estimated value, value may not be accurate
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to maxtrix or extended target compounds
- E - Result exceeds Highest Calibration Standard
- Limit - Reporting Limit
- NC - Not Calculated for values < RL
- R - RPD outside recovery limits

Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

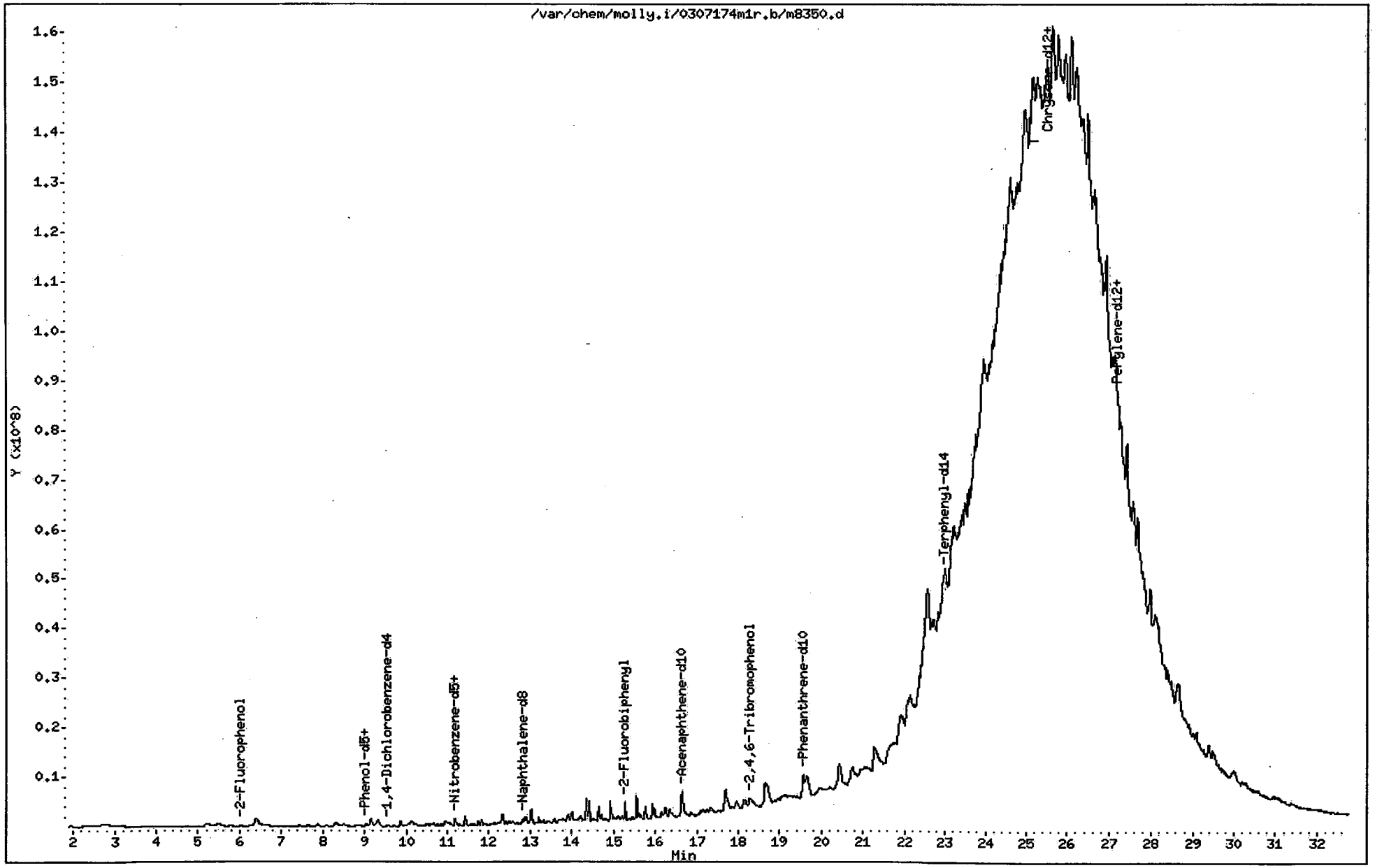
Sample Info: 0307090-03C

Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8350.d
Lab Smp Id: 0307090-03C
Inj Date : 17-JUL-2003 17:22
Operator : dce Inst ID: molly.i
Smp Info : 0307090-03C
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	6.045	5.879	(0.632)	214509	53.7962	26.9(M) DCE 7/19/03
5 Aniline	93	8.892	8.767	(0.930)	113064	14.1074	7.05(a) N/A KK 7/22/03
$ 6 Phenol-d5	99	9.037	8.964	(0.945)	615270	107.255	53.6
7 Phenol	94	9.213	8.995	(0.963)	103874	16.0586	8.03(aQM) DCE 7/19/03
* 11 1,4-Dichlorobenzene-d4	152	9.564	9.564	(1.000)	126612	40.0000	
14 1,2-Dichlorobenzene	146	10.144	10.143	(1.061)	27602	5.61841	2.81(aQ)
15 2-Methylphenol	108	10.724	10.651	(1.121)	43254	9.50435	4.75(a)
17 Acetophenone	105	10.827	10.827	(1.132)	262951	34.2961	17.1
18 4-Methylphenol	108	11.169	11.054	(1.168)	52242	10.5225	5.26(aH)
$ 21 Nitrobenzene-d5	82	11.189	11.189	(0.872)	577978	81.0374	40.5
~~25 2,4-Dimethylphenol~~ NUKK 7/21/03	~~107~~	~~12.328~~	~~12.296~~	~~(0.961)~~	~~126987~~	~~19.3463~~	~~9.67(aQ)~~
* 30 Naphthalene-d8	136	12.825	12.824	(1.000)	524486	40.0000	
31 Naphthalene	128	12.877	12.876	(1.004)	639147	41.9164	21.0

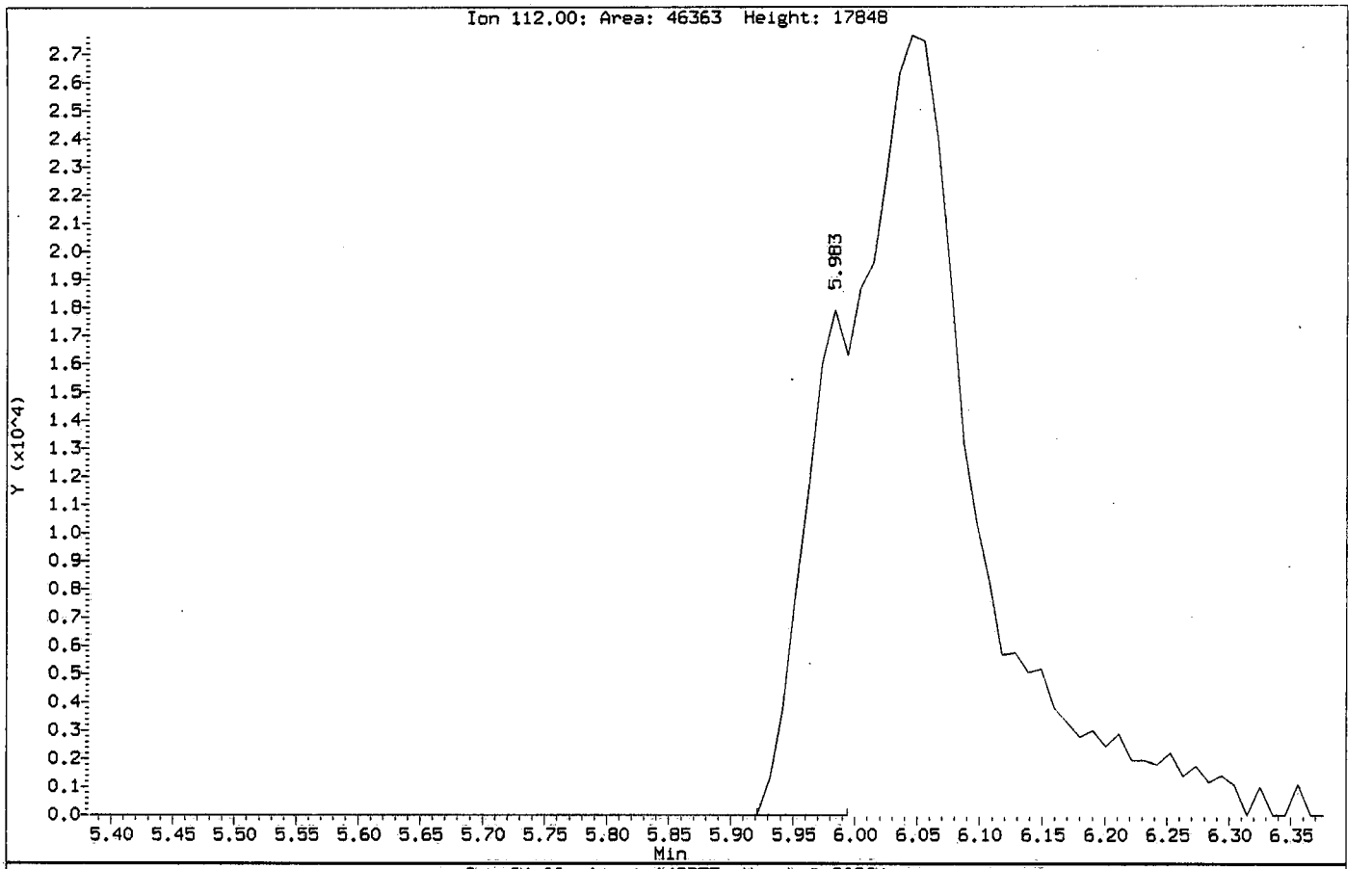
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
36 2-Methylnaphthalene	141	14.419	14.418	(1.124)	1261668	139.360	69.7
$ 40 2-Fluorobiphenyl	172	15.278	15.277	(0.919)	1090298	62.4644	31.2
42 Biphenyl	154	15.443	15.443	(0.929)	172633	8.27026	4.14(a)
* 47 Acenaphthene-d10	164	16.623	16.623	(1.000)	515440	40.0000	
52 Dibenzofuran	168	17.027	17.016	(1.024)	101823	4.26201	2.13(a)
55 Fluorene	166	17.741	17.720	(1.067)	280880	14.4971	7.25(a)
$ 60 2,4,6-Tribromophenol	330	18.310	18.258	(1.101)	397684	168.733	84.4(A)
* 65 Phenanthrene-d10	188	19.625	19.593	(1.000)	1567775	40.0000	
66 Phenanthrene	178	19.677	19.645	(1.003)	1730558	37.6144	18.8
68 Carbazole	167	20.173	20.111	(1.028)	239820	5.69550	2.85(a)
~~69 Di-n-butyl phthalate~~	~~149~~	~~21.043~~	~~21.001~~	~~(1.072)~~	~~267392~~	~~4.52194~~	~~2.26(a)~~ MOL KK 7/22/03
70 Fluoranthene	202	22.109	22.056	(1.127)	1026816	18.2749	9.14(a)
72 Pyrene	202	22.585	22.491	(0.902)	1819435	21.0867	10.5(Q)
$ 73 Terphenyl-d14	244	22.968	22.895	(0.918)	7052449	129.895	64.9
75 Benzo(a)anthracene	228	25.028	24.841	(1.000)	1736837	18.9777	9.49(aQH)
* 77 Chrysene-d12	240	25.028	24.861	(1.000)	3129228	40.0000	(Q)
79 Bis(2-ethylhexyl)phthalate	149	25.224	25.089	(1.008)	3795260	58.0148	29.0(M) DKT 7/19/03
82 Benzo(k)fluoranthene	252	26.653	26.486	(0.980)	1024590	16.1931	8.10(aH)
83 Benzo(a)pyrene	252	27.118	26.911	(0.997)	385207	6.85481	3.43(aH)
* 84 Perylene-d12	264	27.201	27.004	(1.000)	1325179	40.0000	

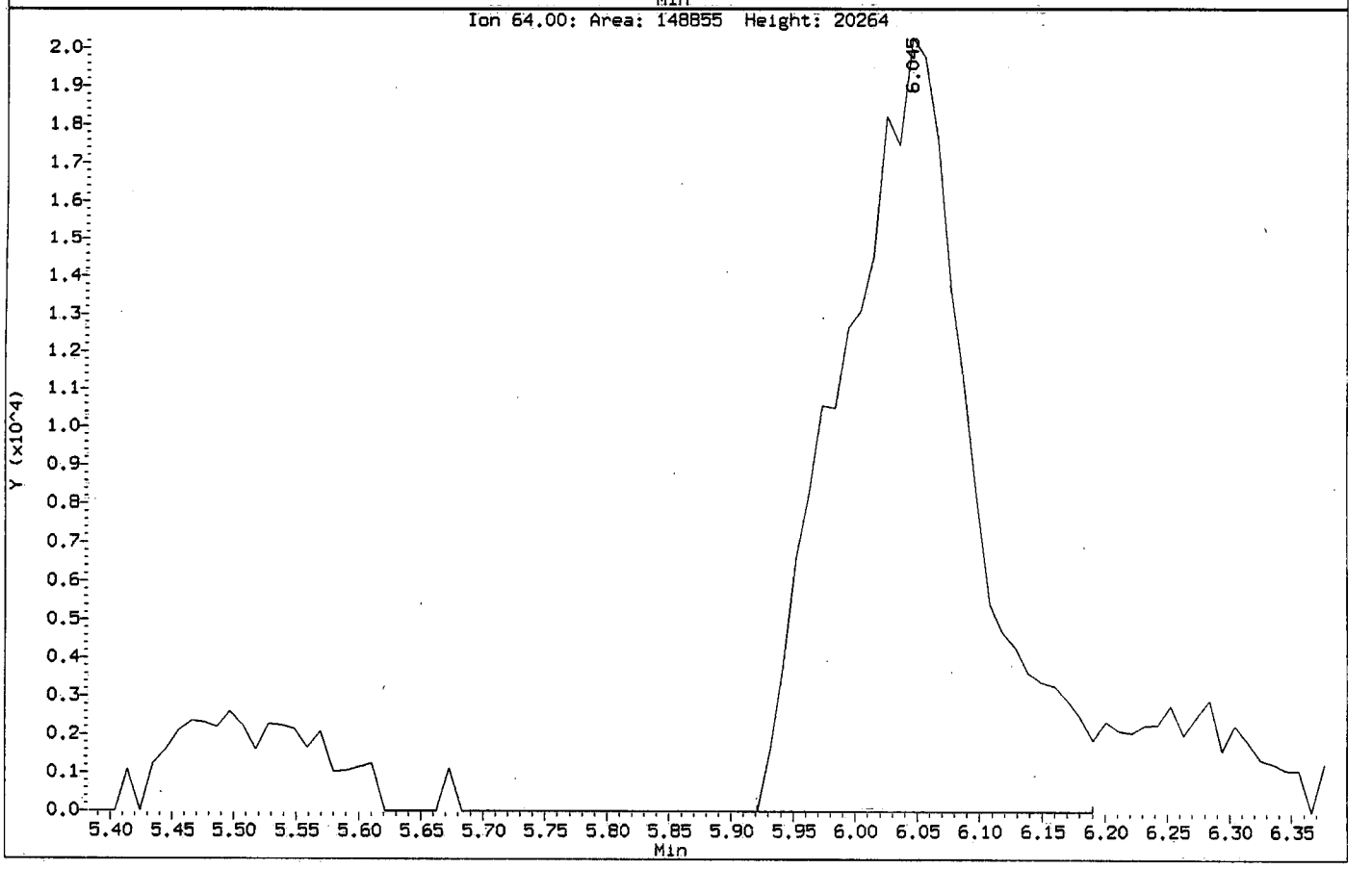
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

Compound: 2-Fluorophenol
CAS Number: 367-12-4

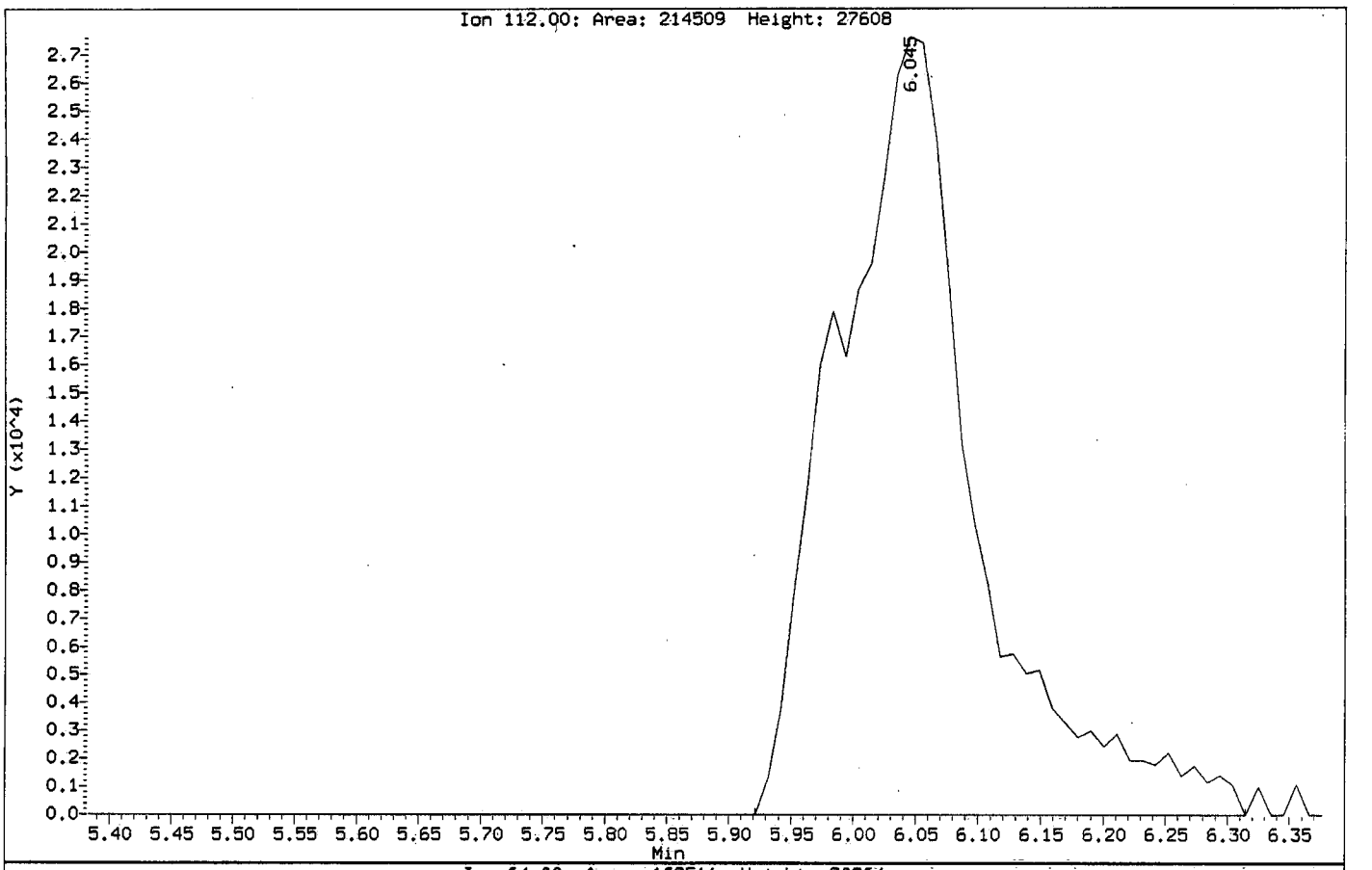


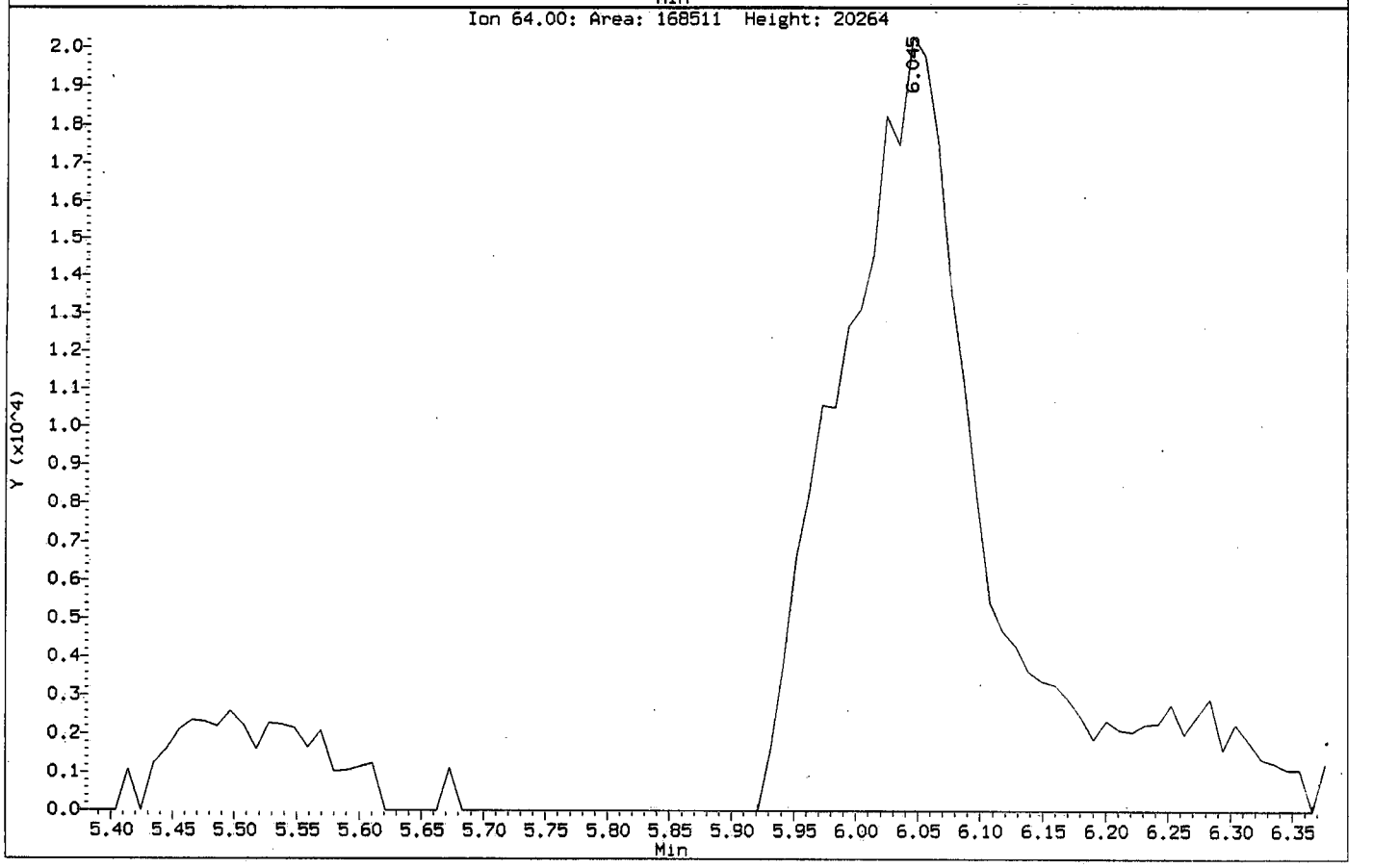


fell 7/19/03
integrate entire area
Kathy Kurut 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

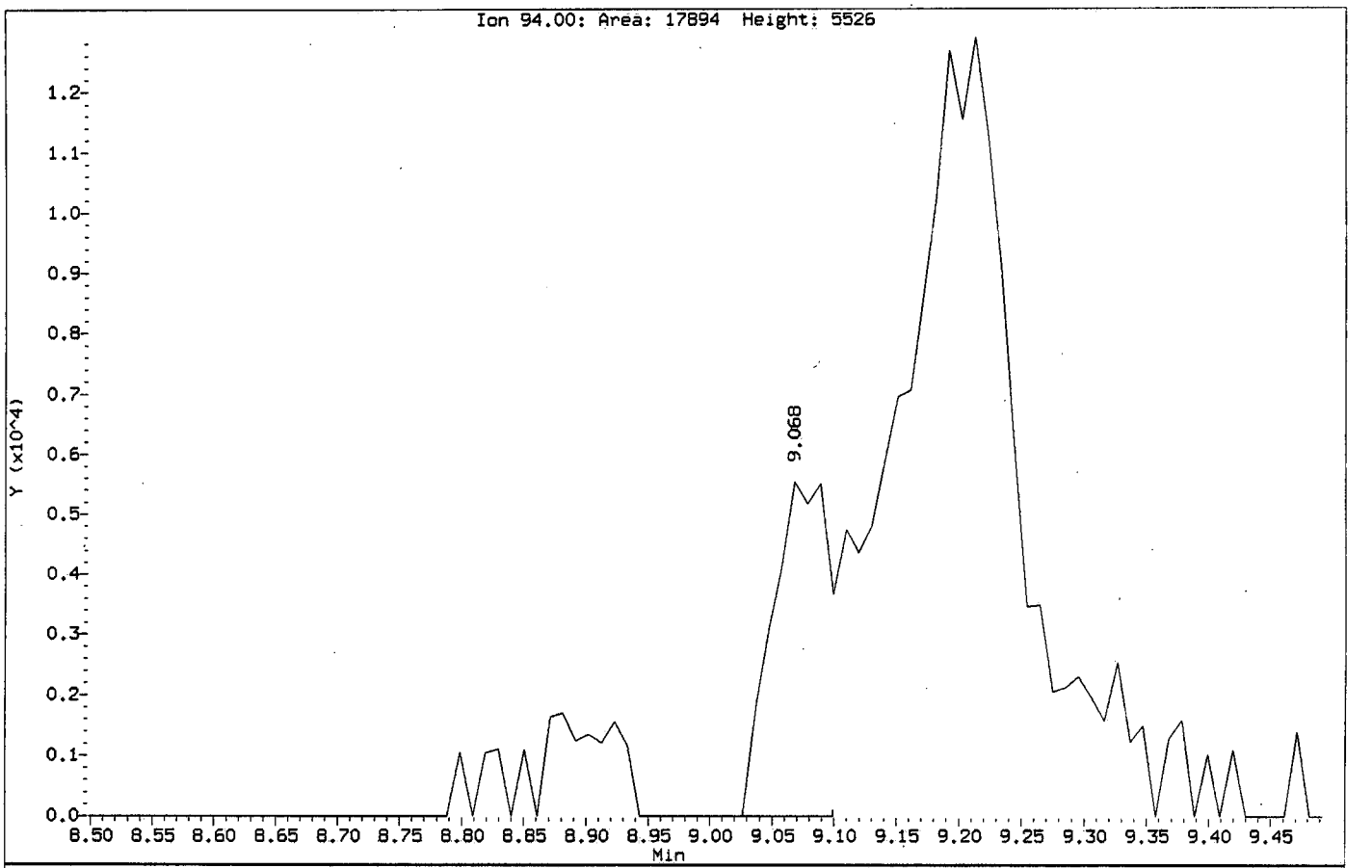
Compound: 2-Fluorophenol
CAS Number: 367-12-4

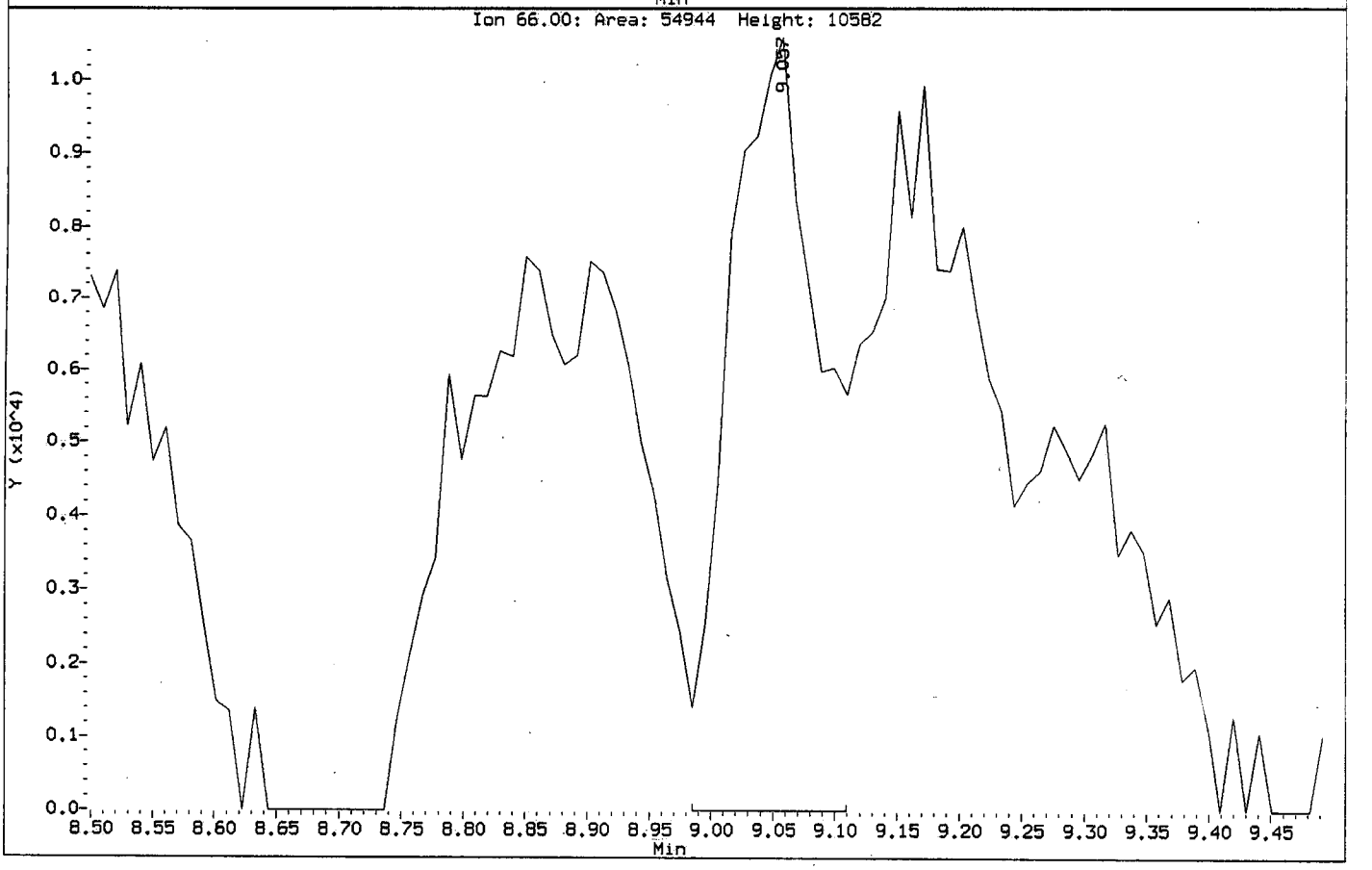




Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

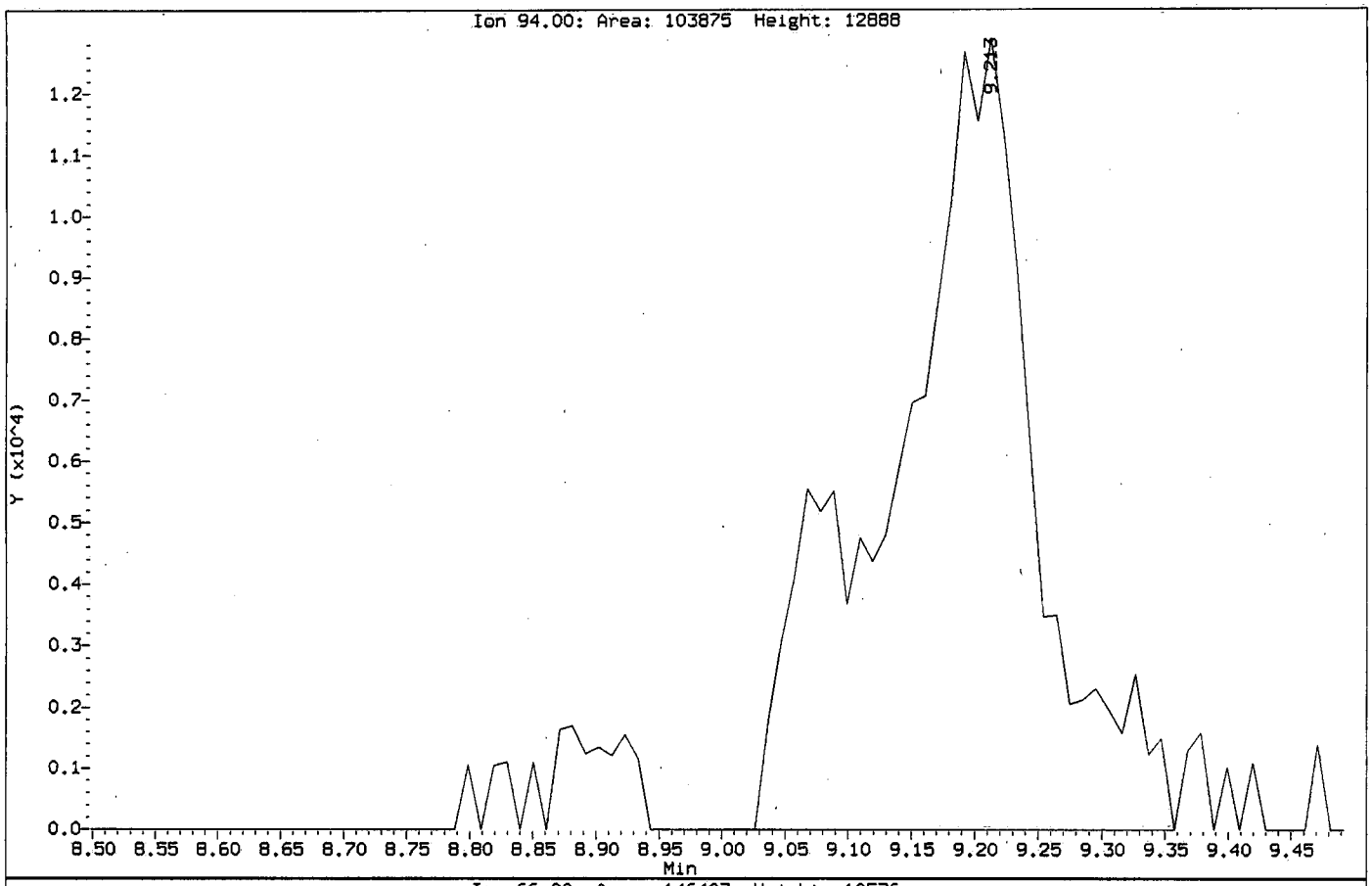


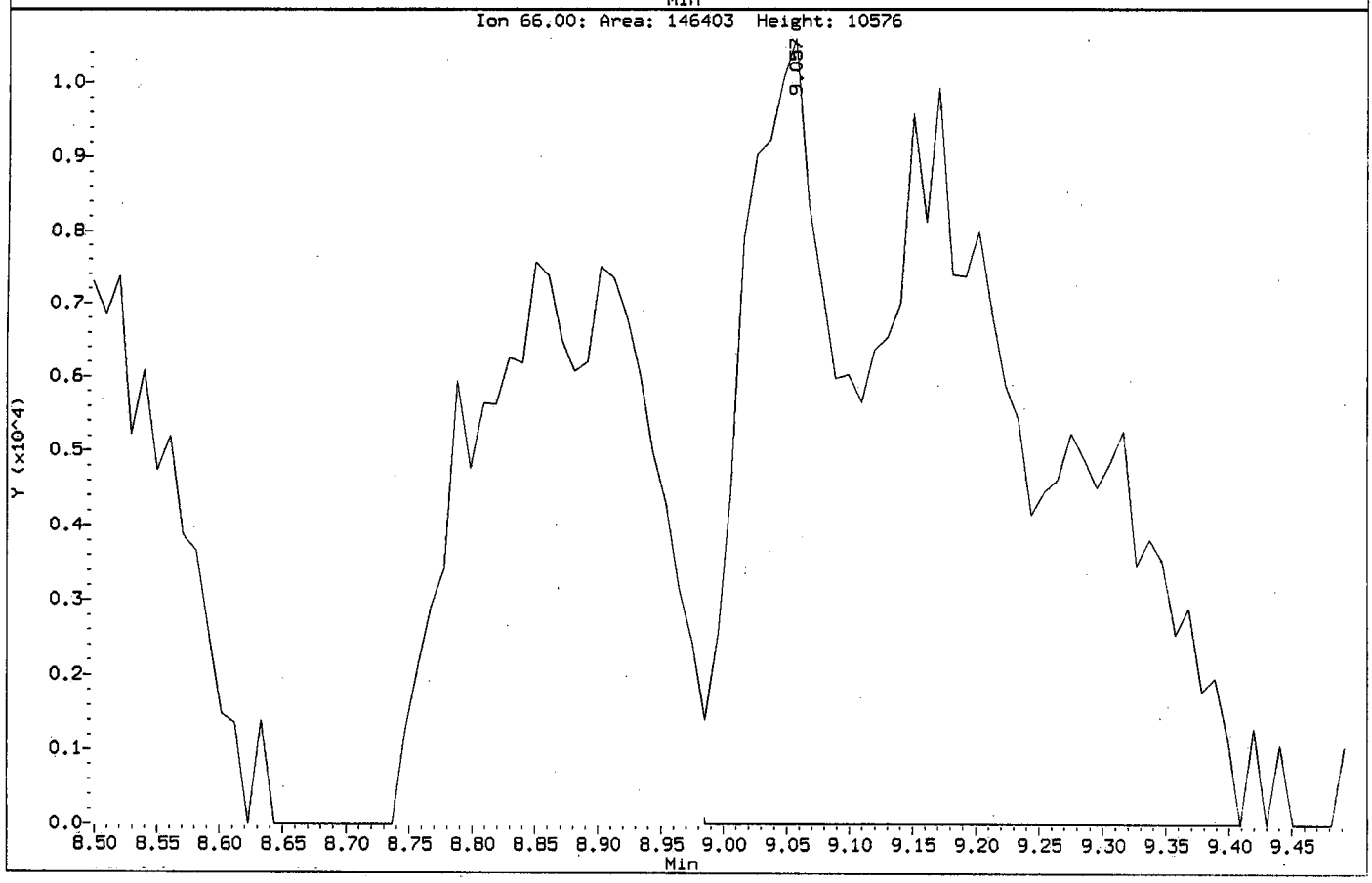


fdh 7/19/03
integrate entire area
Kathy Kubut 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

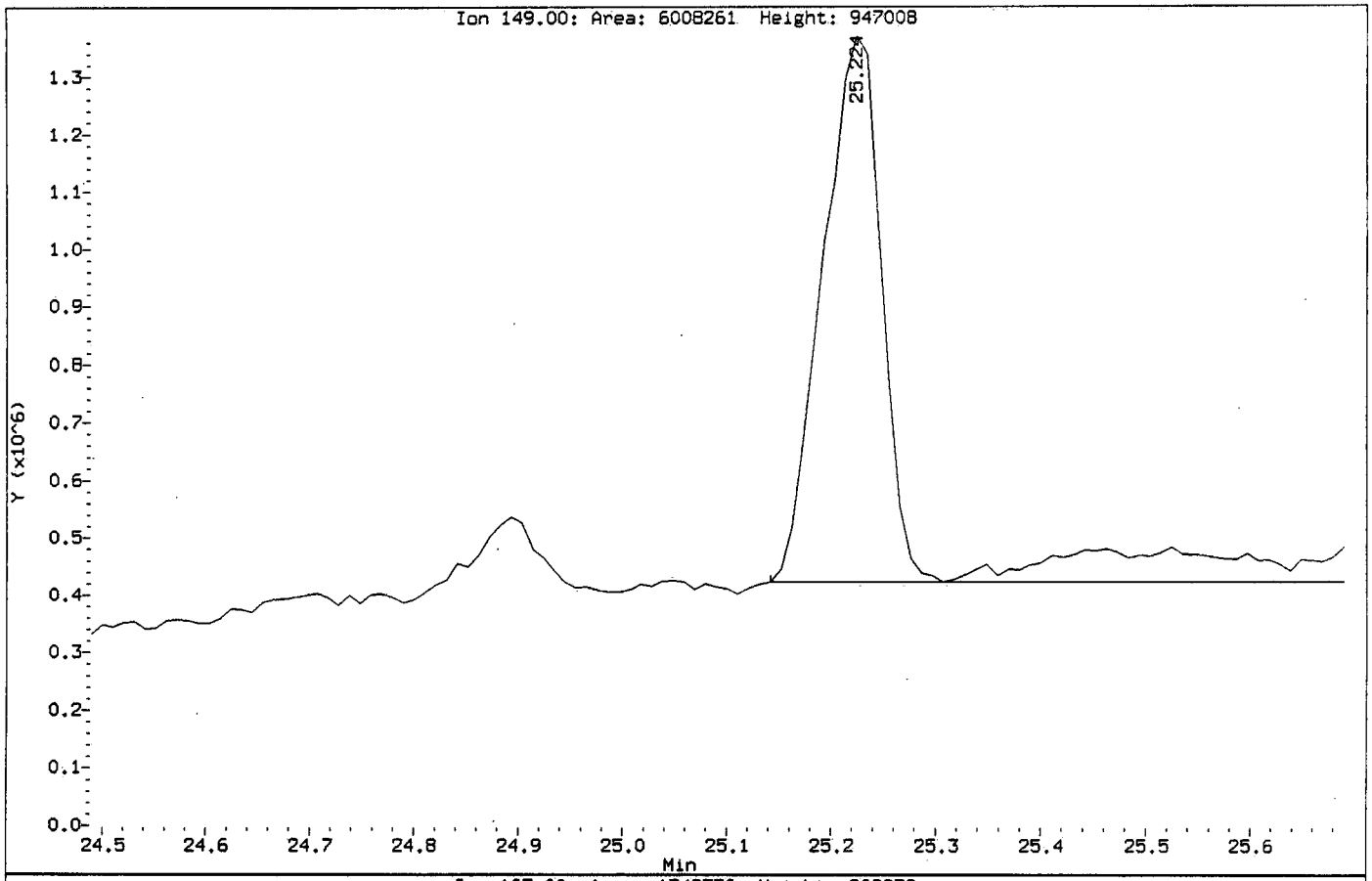
Compound: Phenol
CAS Number: 108-95-2

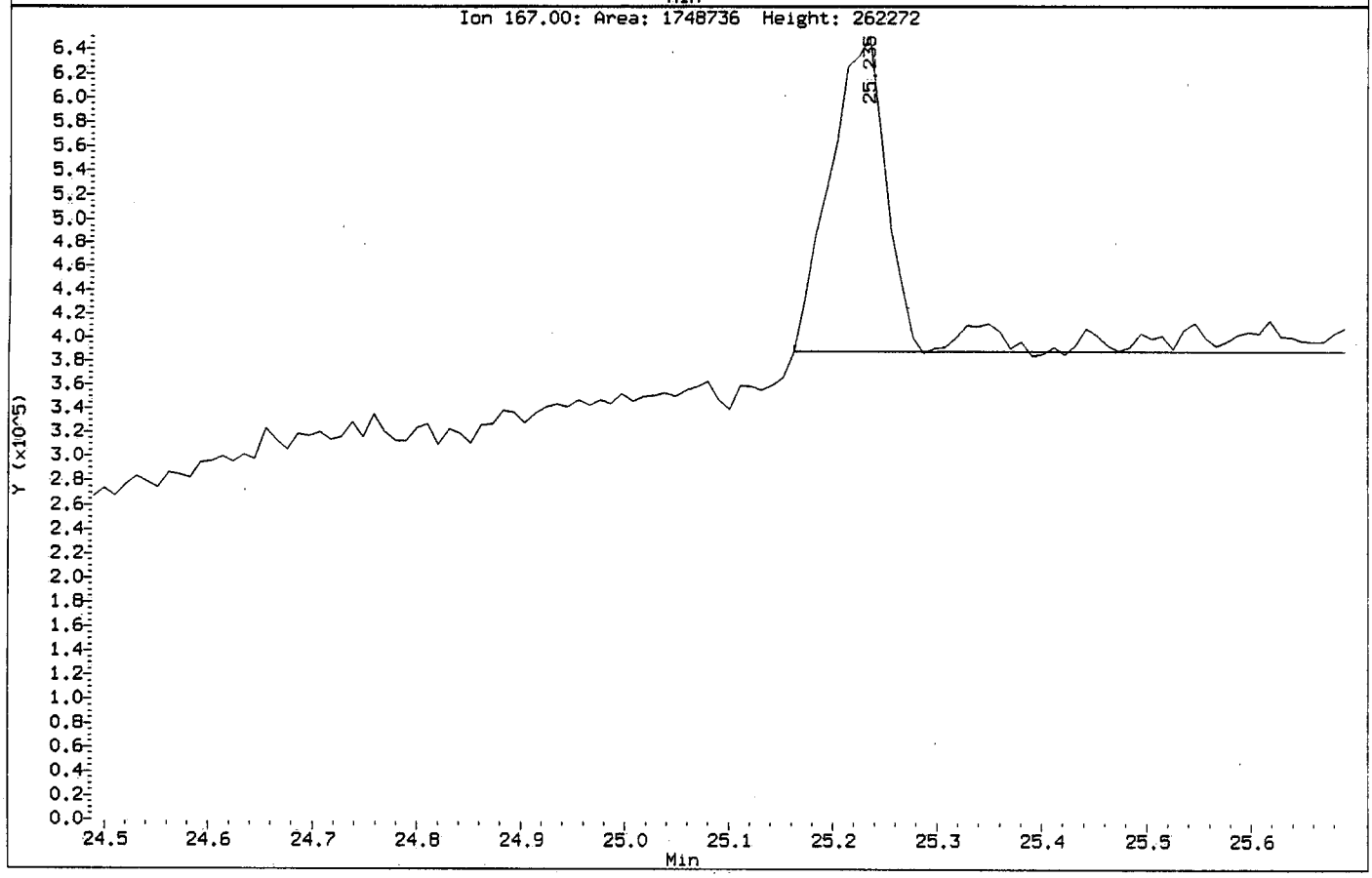




Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

Compound: Bis(2-ethylhexyl)phthalate
CAS Number: 117-81-7

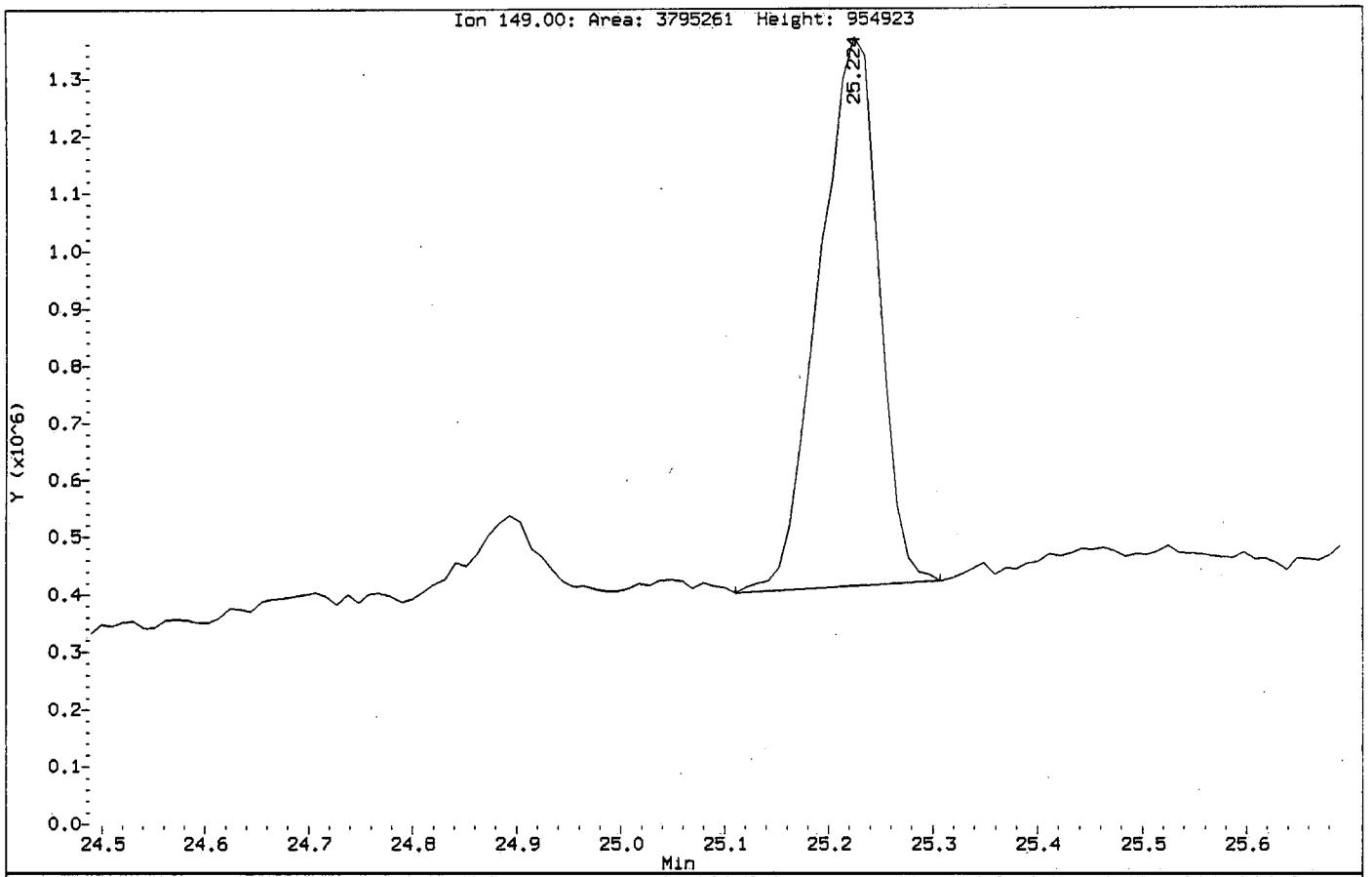


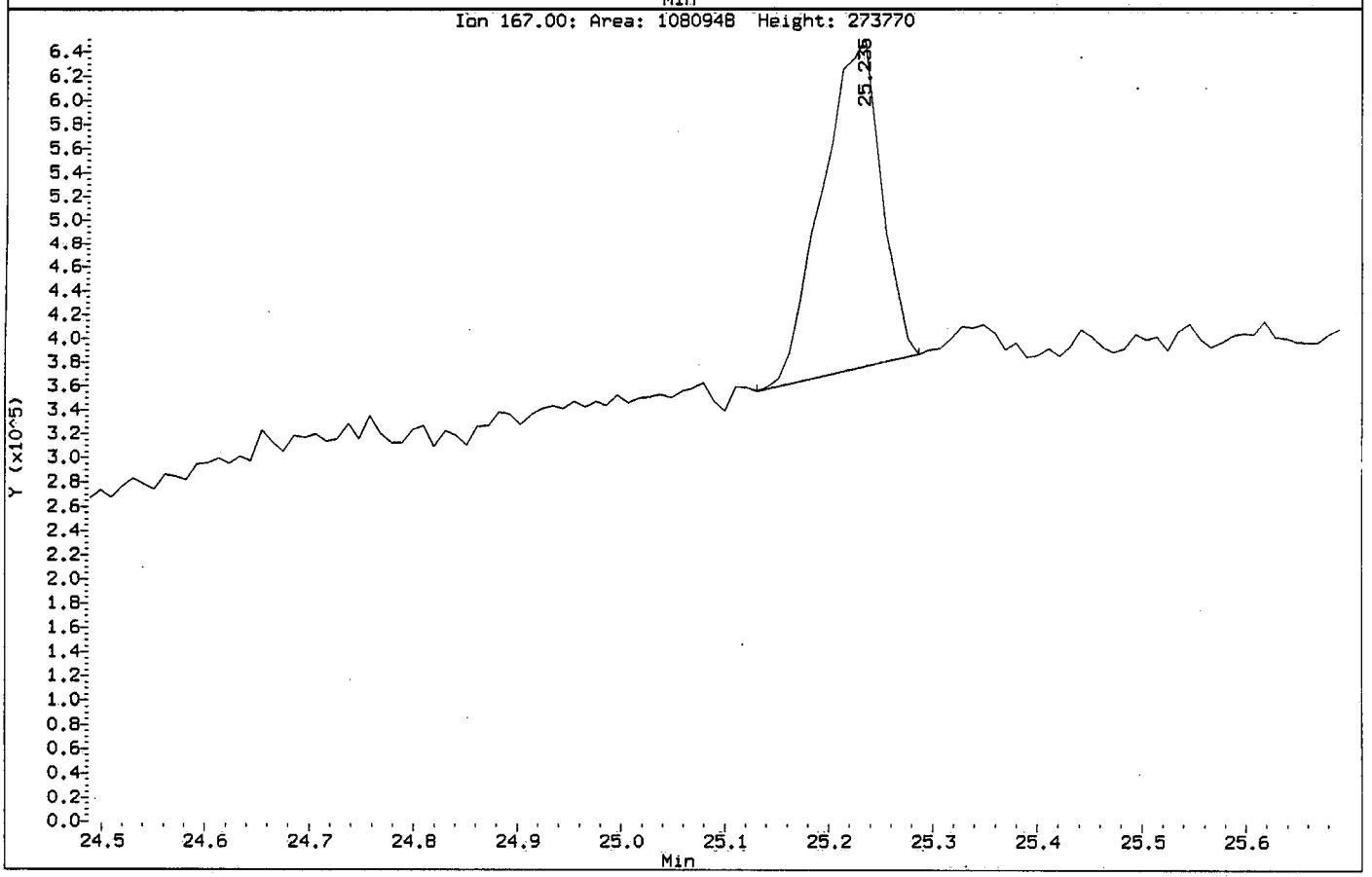


Rev E 7/19/03
Correct peak start/stop points
Kathy Kuhnt 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8350.d
Injection Date: 17-JUL-2003 17:22
Instrument: molly.i
Client Sample ID:

Compound: Bis(2-ethylhexyl)phthalate
CAS Number: 117-81-7





Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

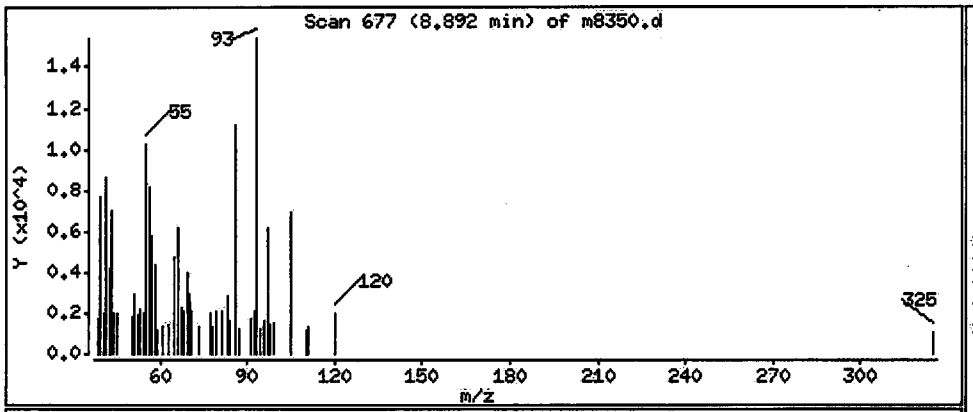
Operator: dce

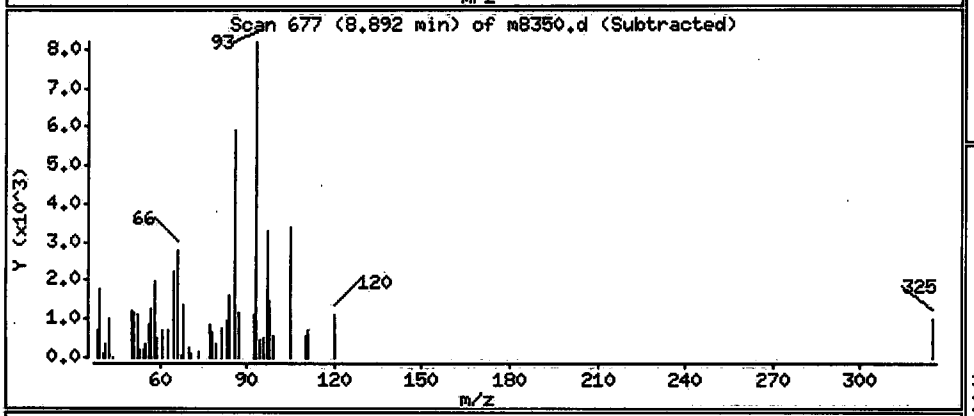
Column phase: ZB-5

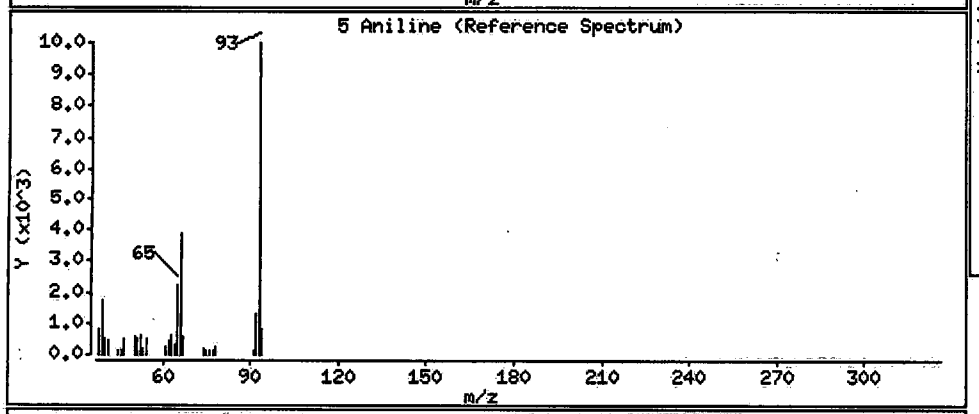
Column diameter: 0.25

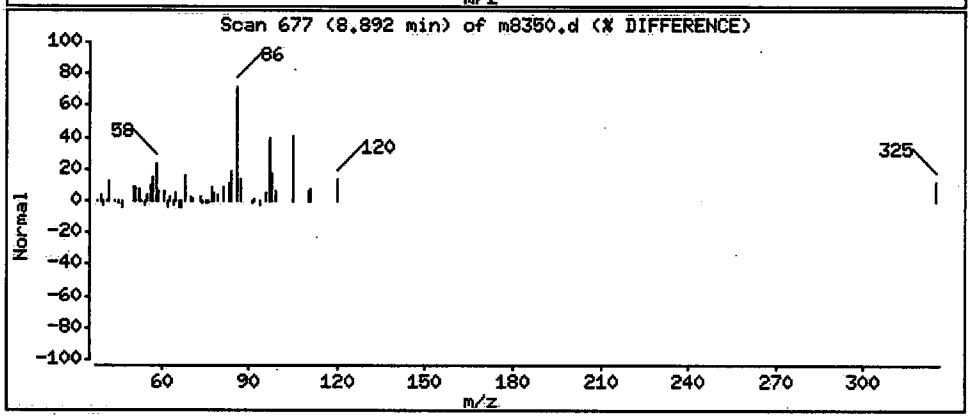
5 Aniline

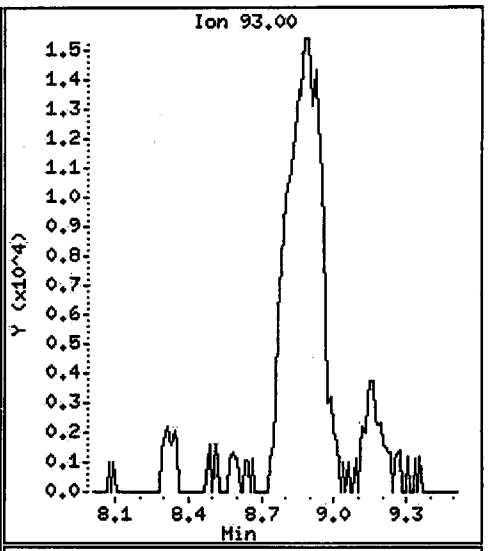
Concentration: 7.05 ug/L

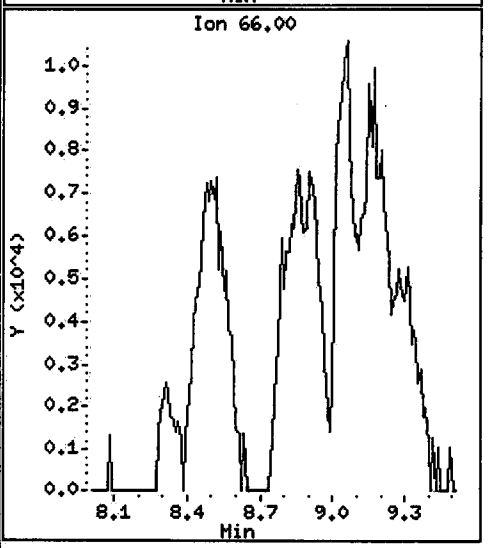












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

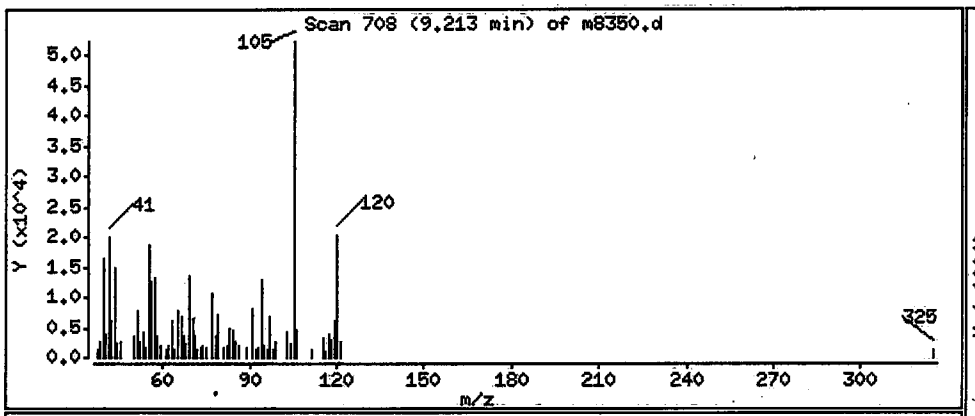
Operator: dce

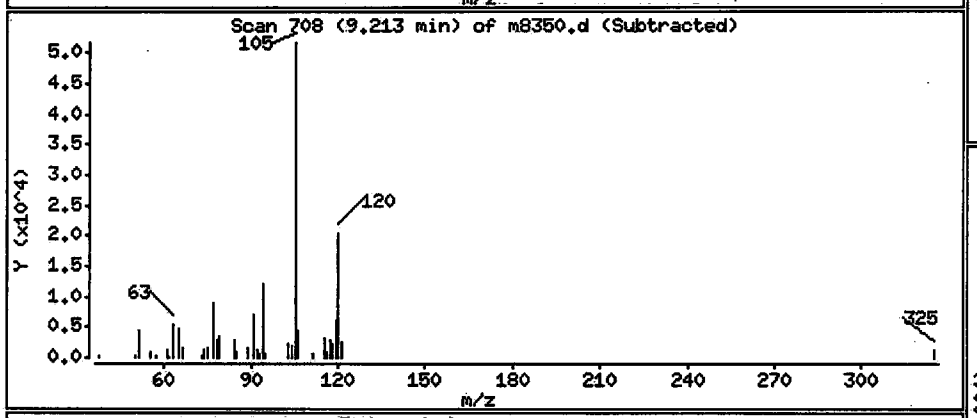
Column phase: ZB-5

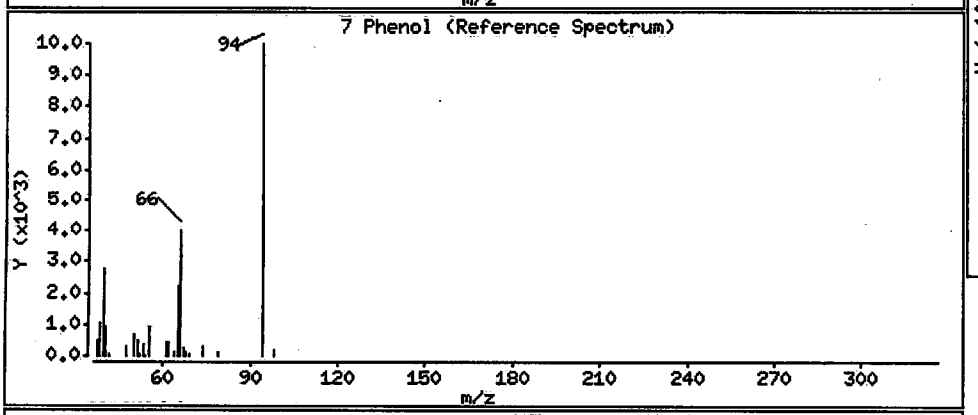
Column diameter: 0.25

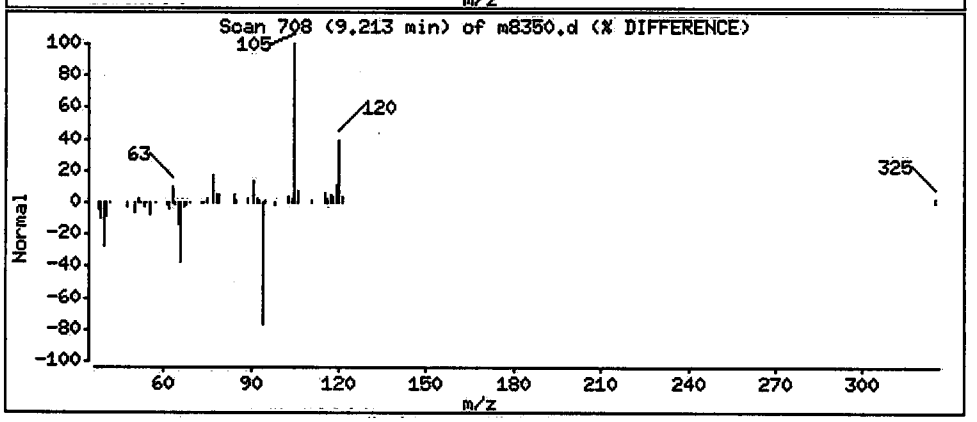
7 Phenol

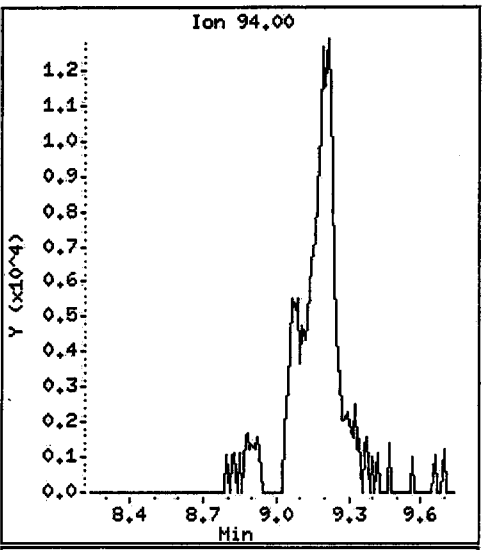
Concentration: 8.03 ug/L

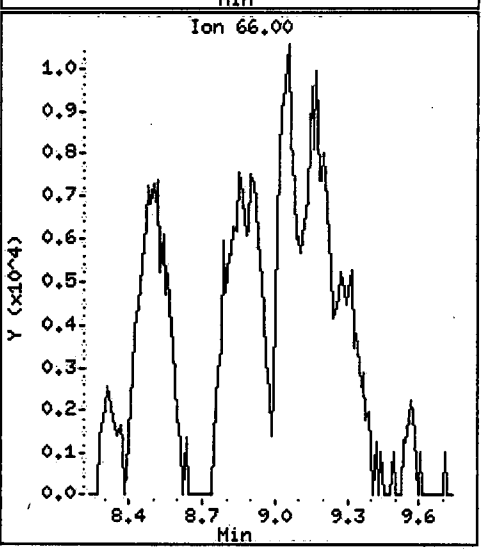












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

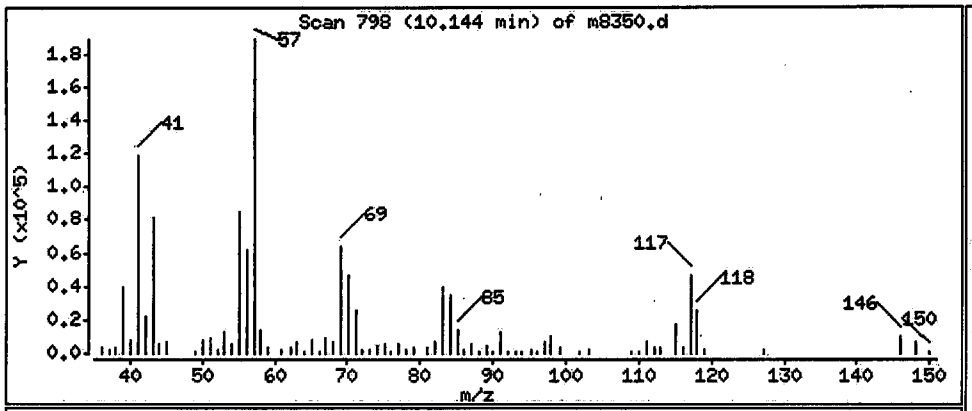
Operator: dce

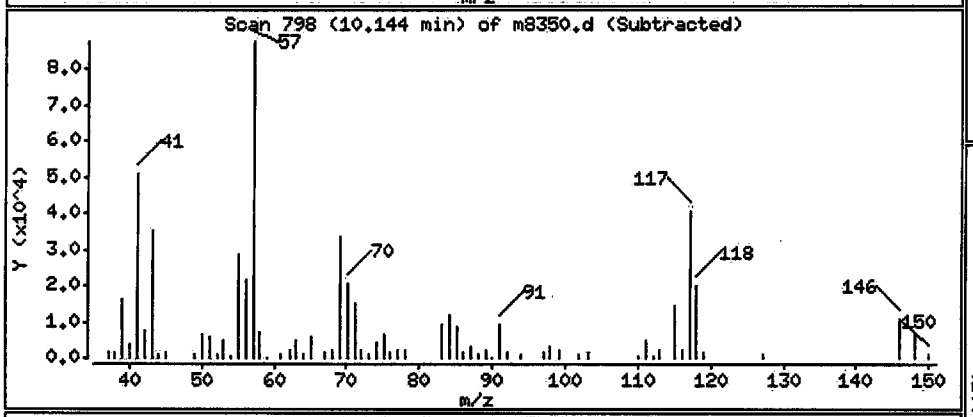
Column phase: ZB-5

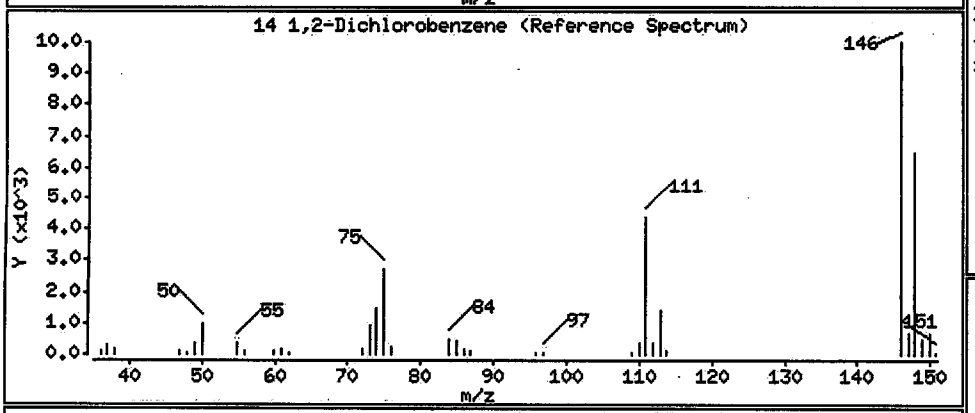
Column diameter: 0.25

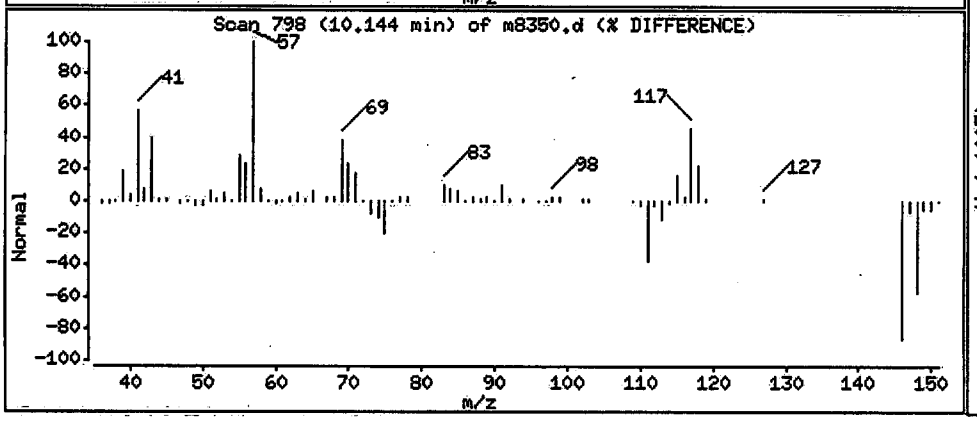
14 1,2-Dichlorobenzene

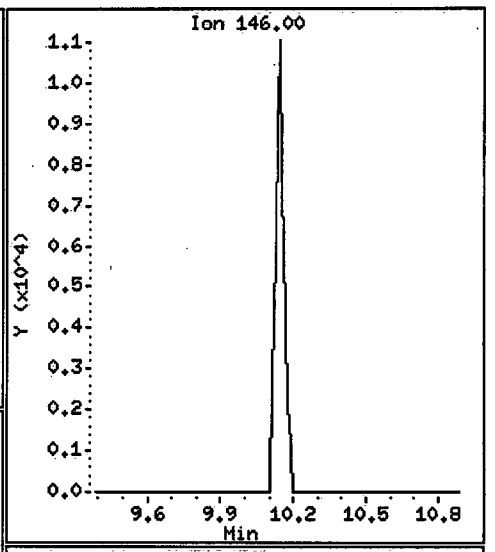
Concentration: 2.81 ug/L

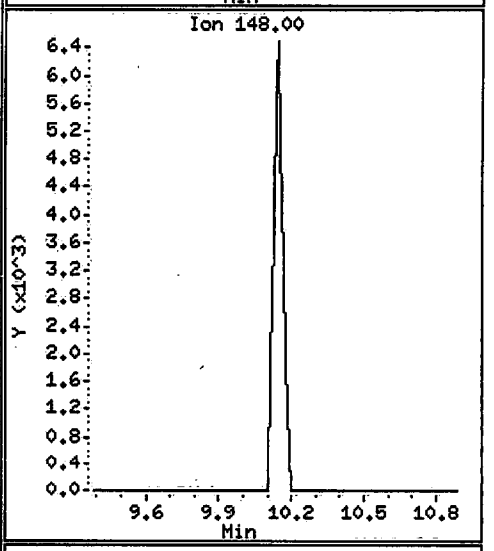


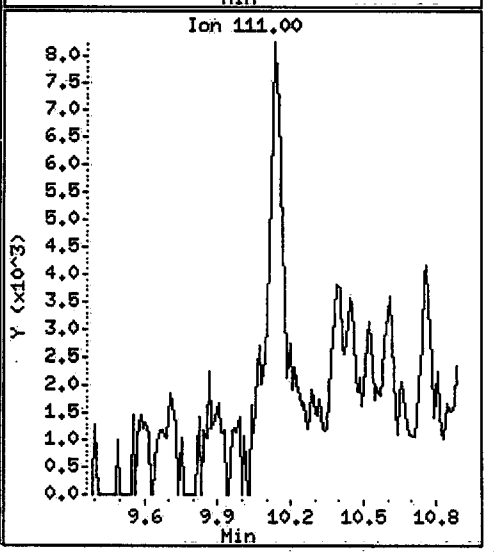












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

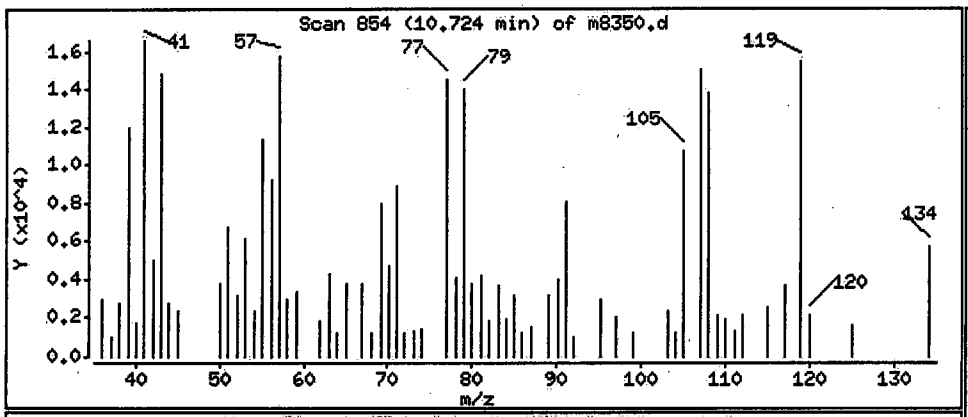
Operator: dce

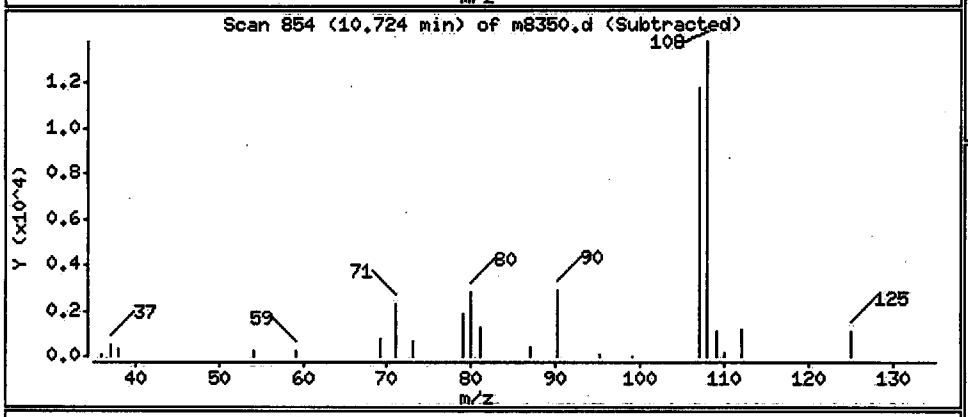
Column phase: ZB-5

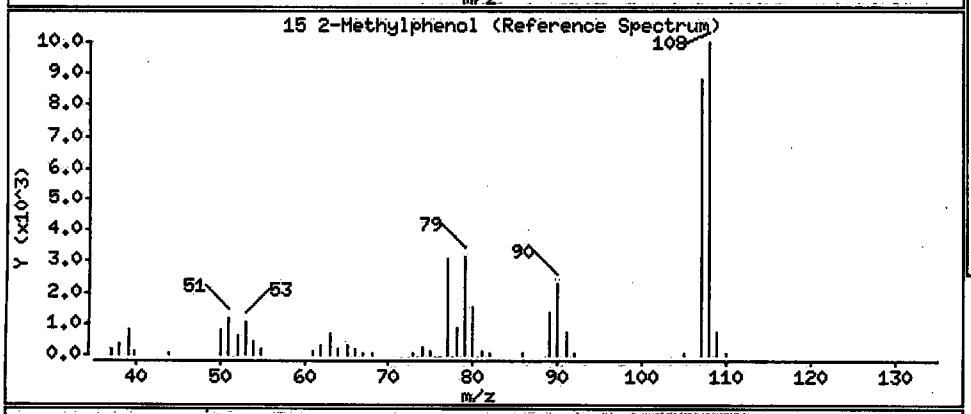
Column diameter: 0.25

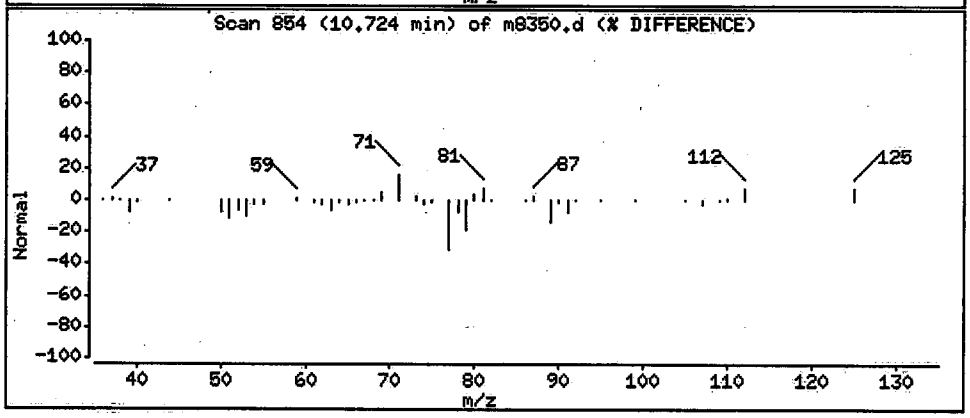
15 2-Methylphenol

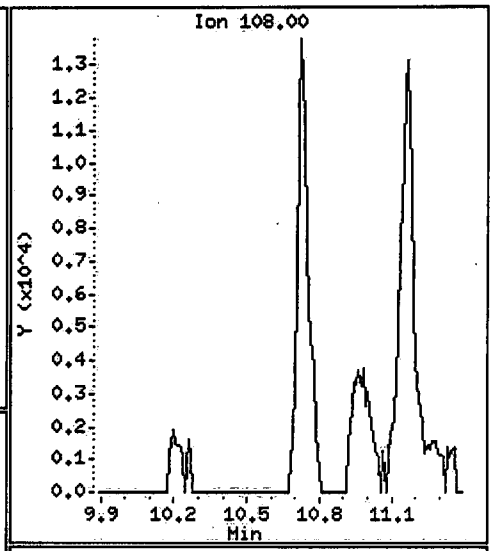
Concentration: 4.75 ug/L

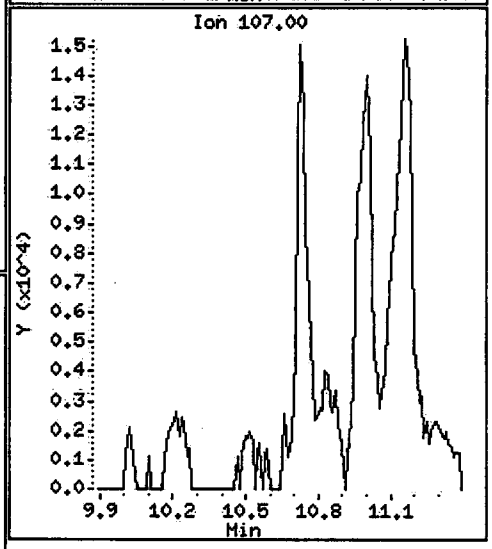












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

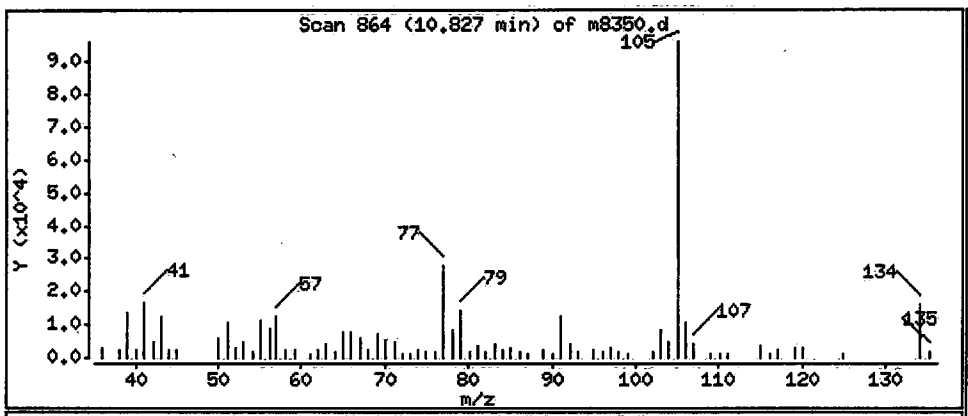
Operator: dce

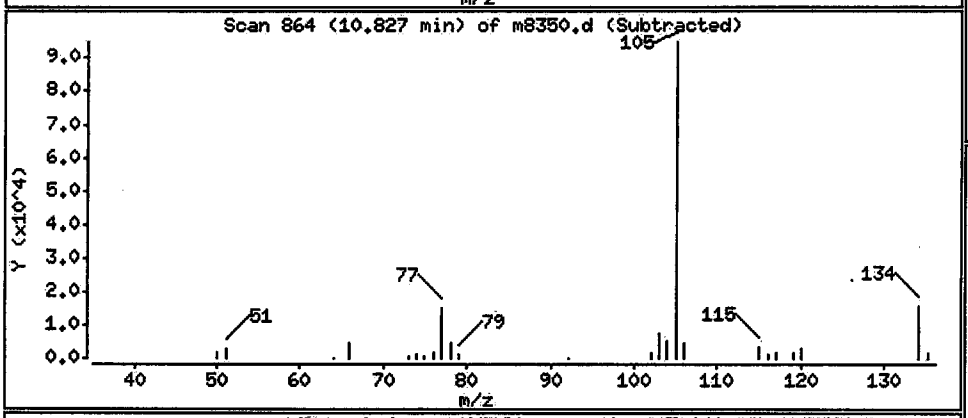
Column phase: ZB-5

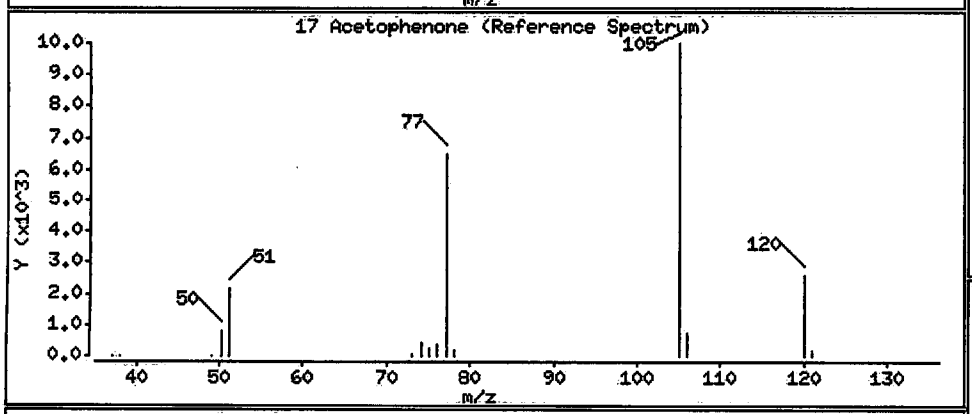
Column diameter: 0.25

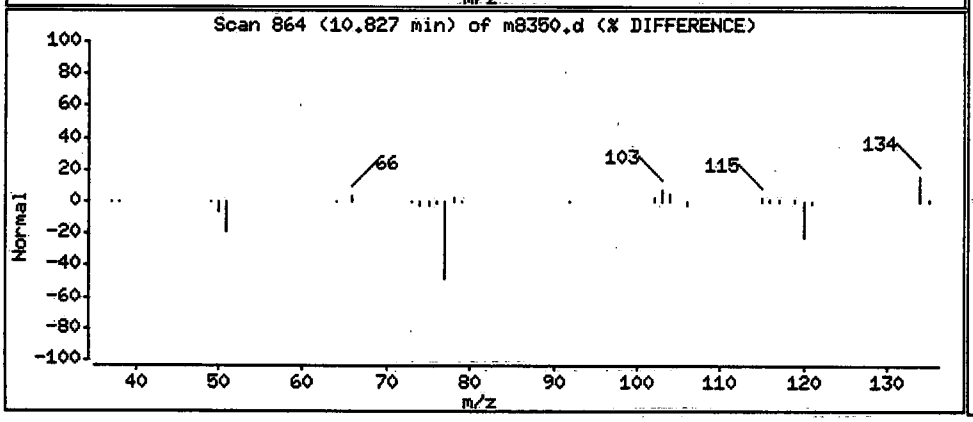
17 Acetophenone

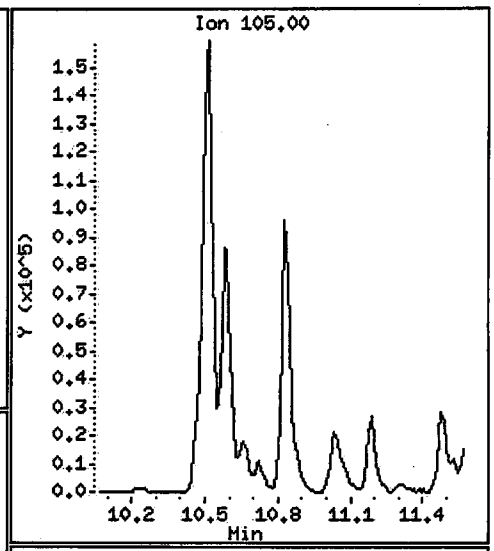
Concentration: 17.1 ug/L

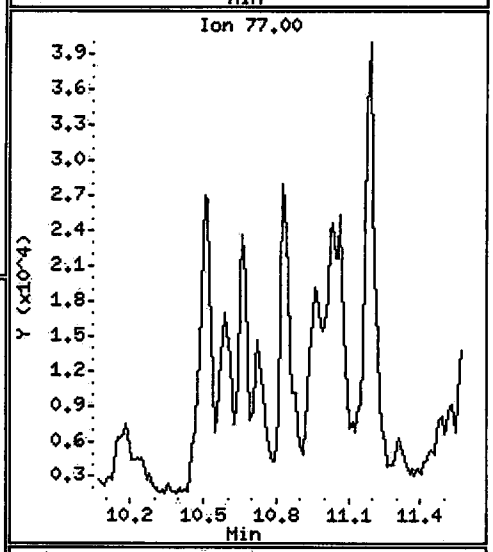


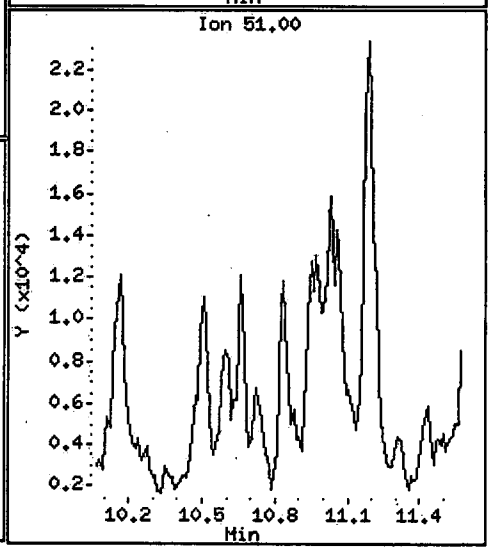












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

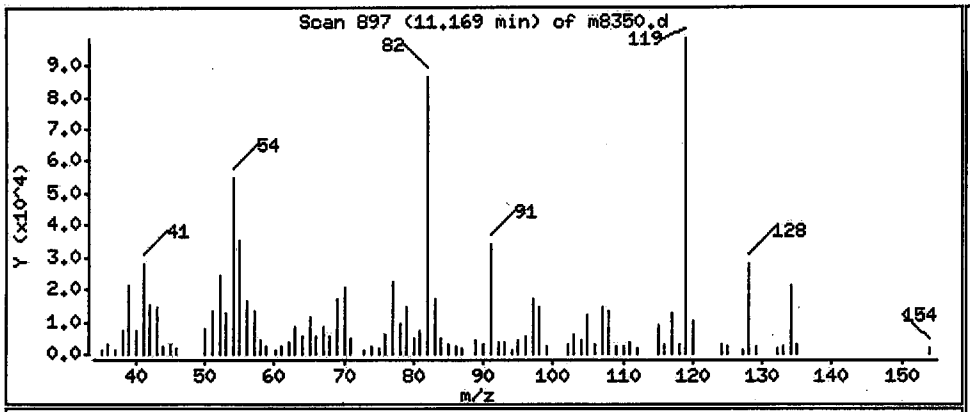
Operator: dce

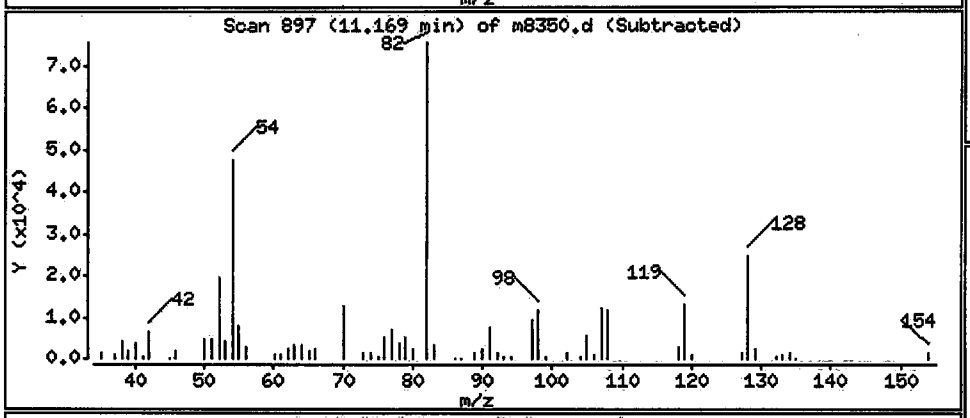
Column phase: ZB-5

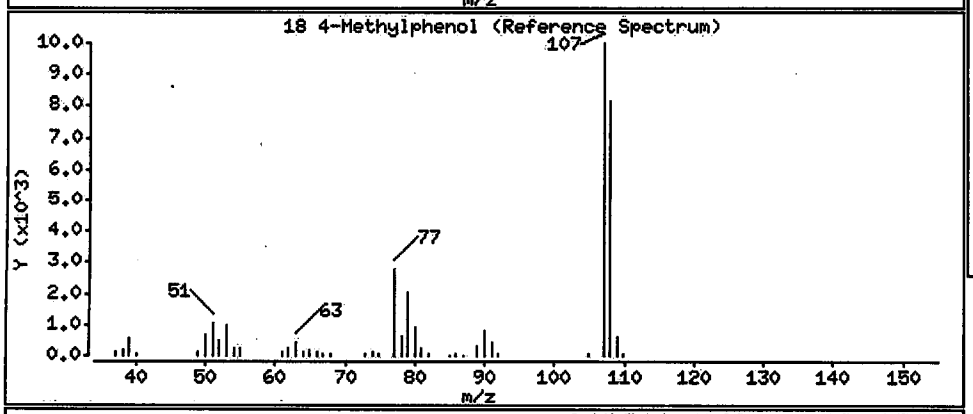
Column diameter: 0.25

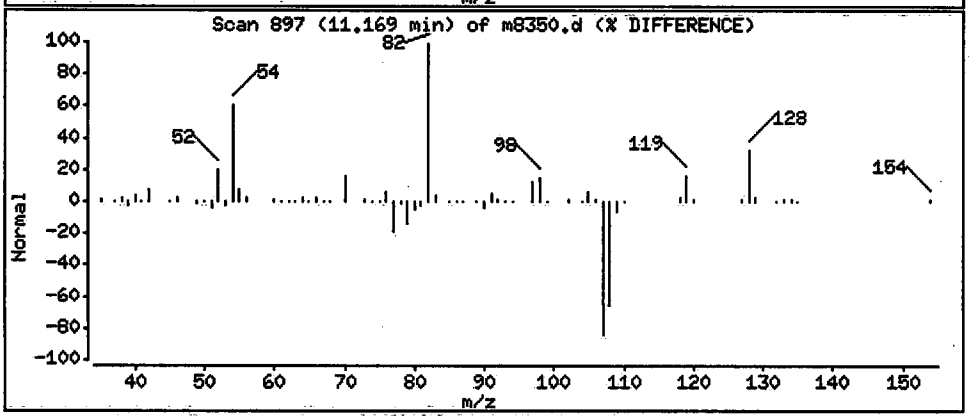
18 4-Methylphenol

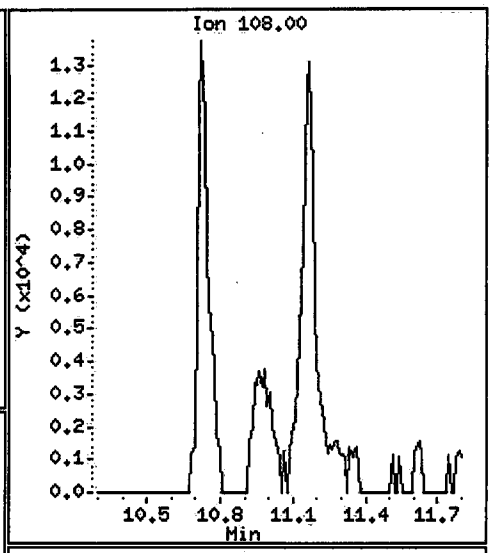
Concentration: 5.26 ug/L

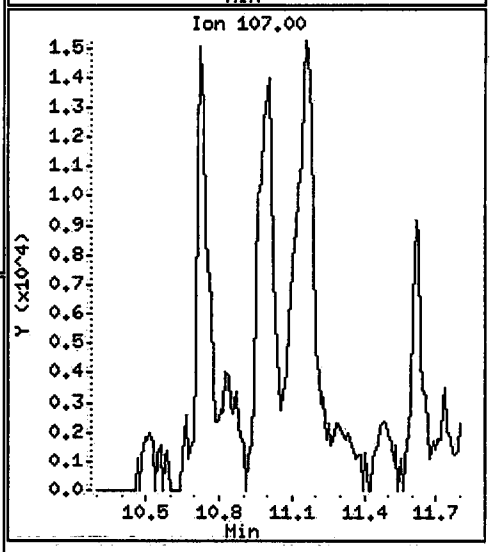












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

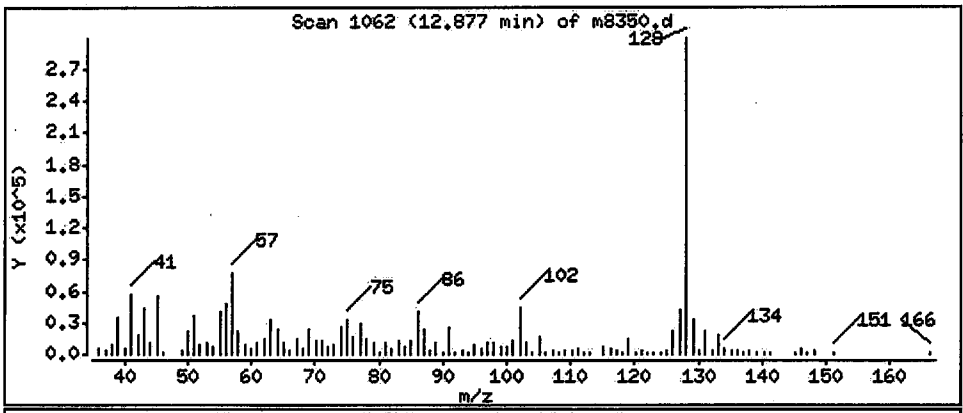
Operator: dce

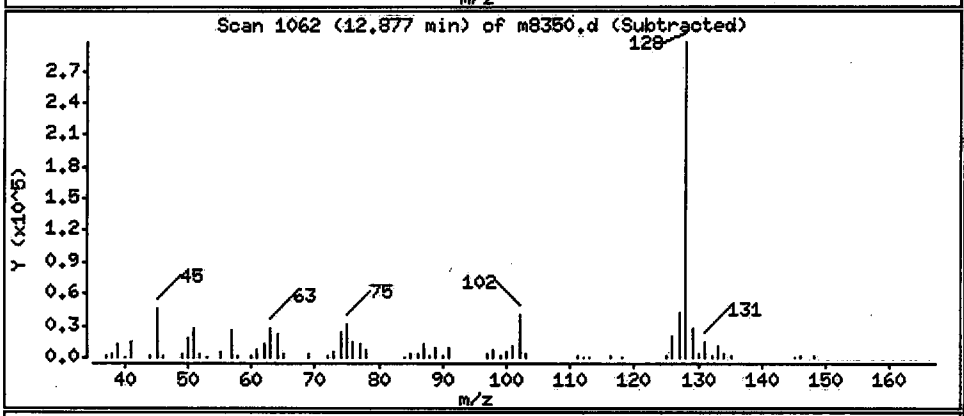
Column phase: ZB-5

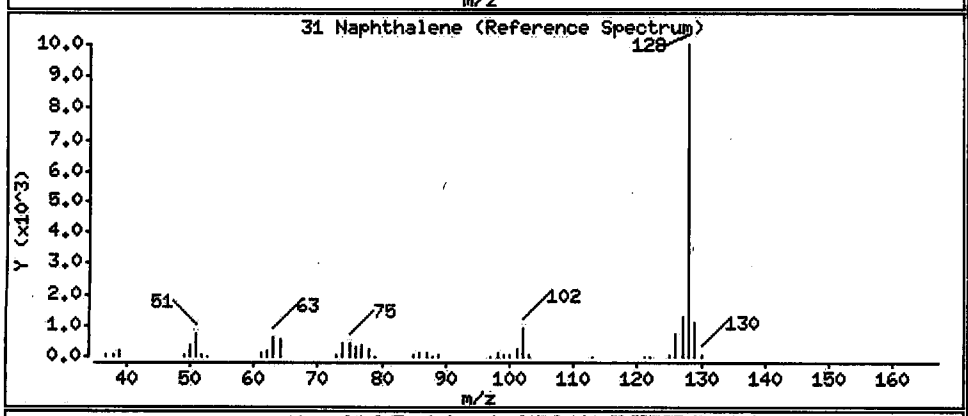
Column diameter: 0.25

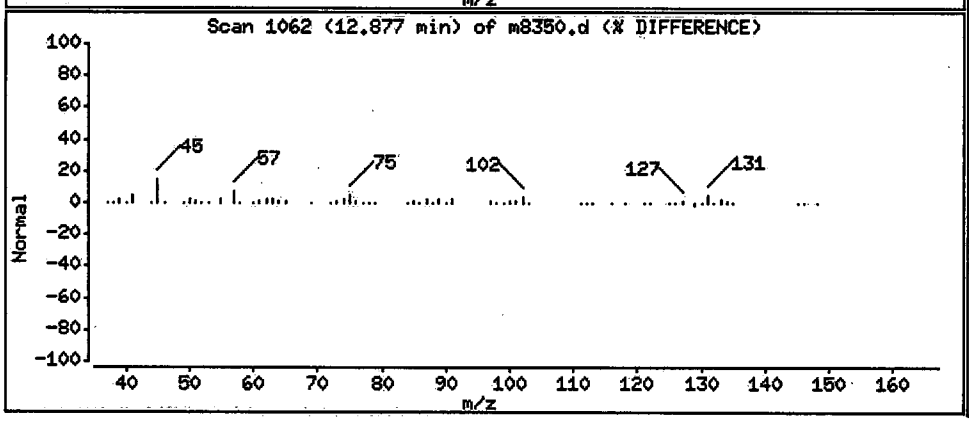
31 Naphthalene

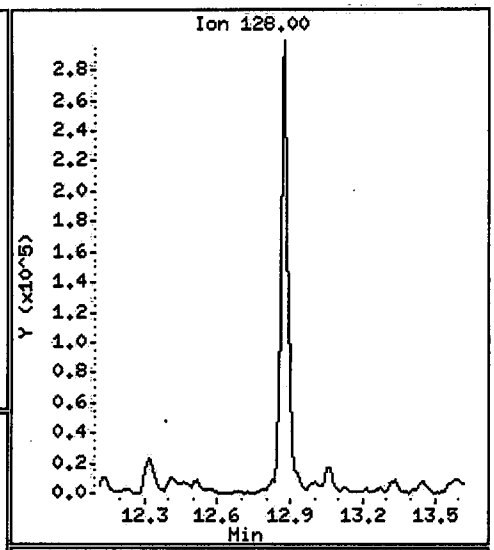
Concentration: 21.0 ug/L

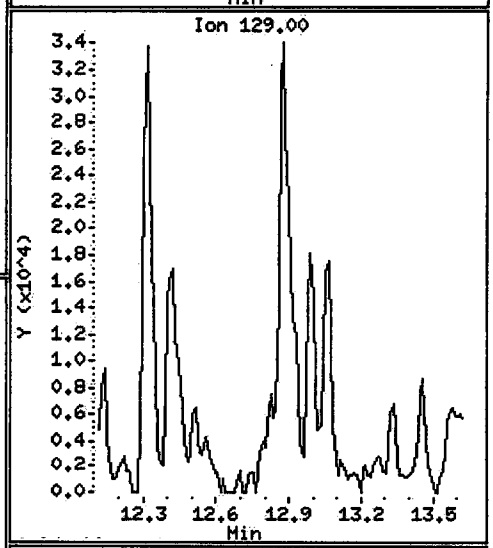


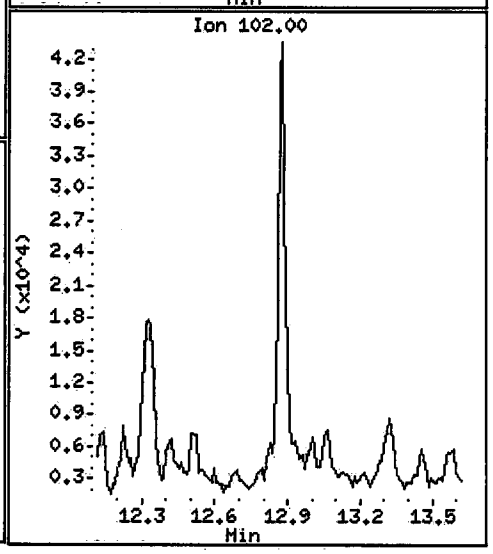












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

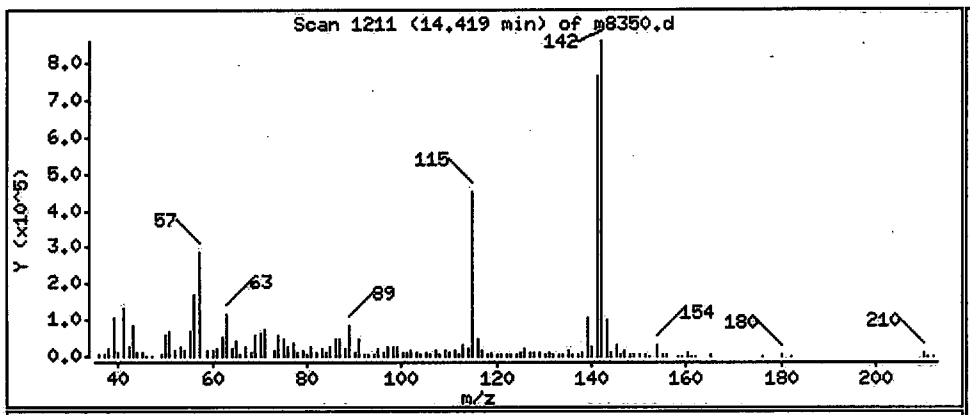
Operator: dce

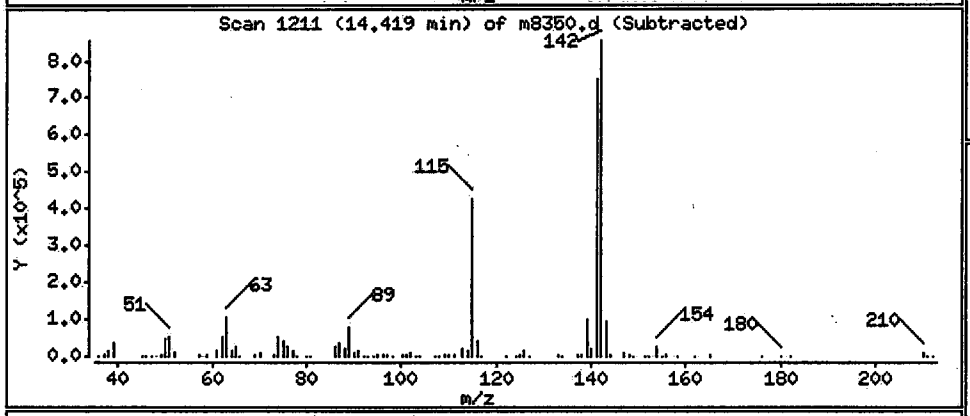
Column phase: ZB-5

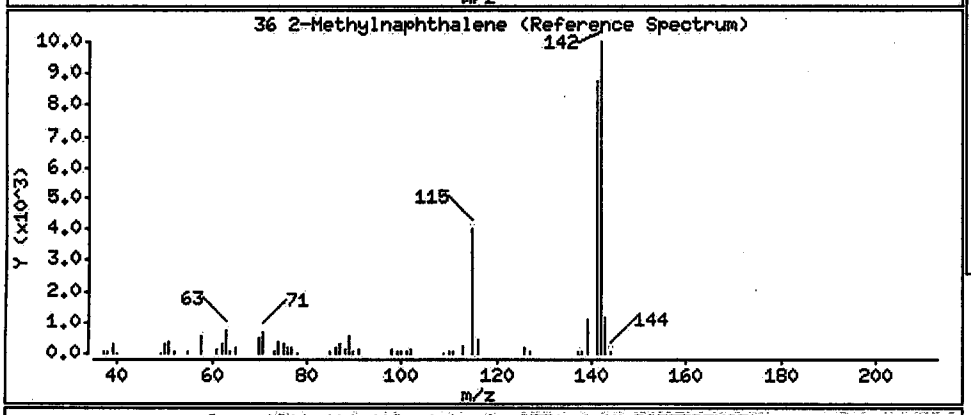
Column diameter: 0.25

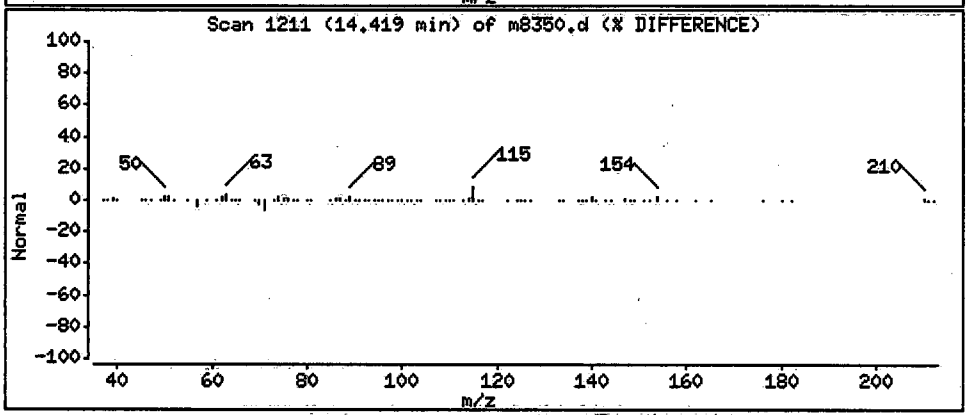
36 2-Methylnaphthalene

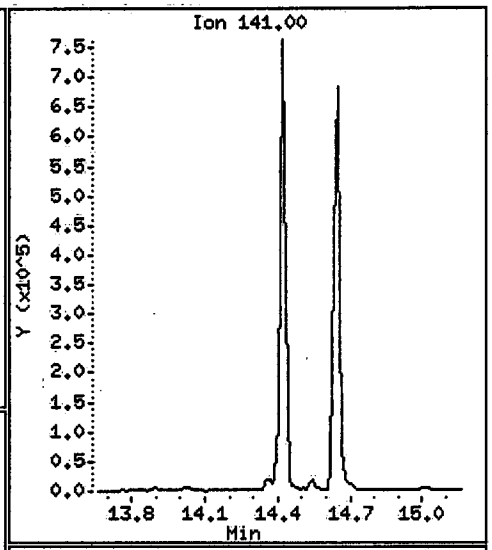
Concentration: 69.7 ug/L

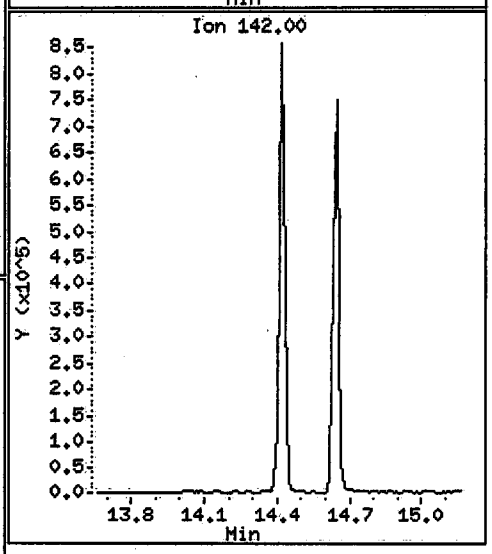












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

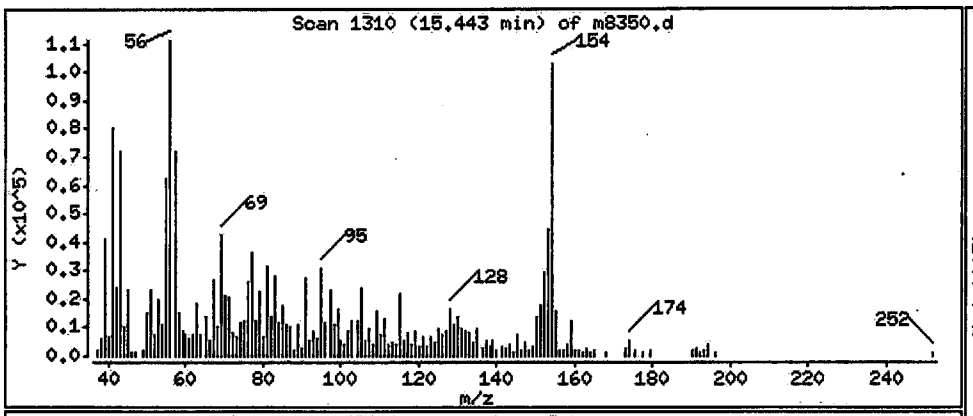
Operator: dce

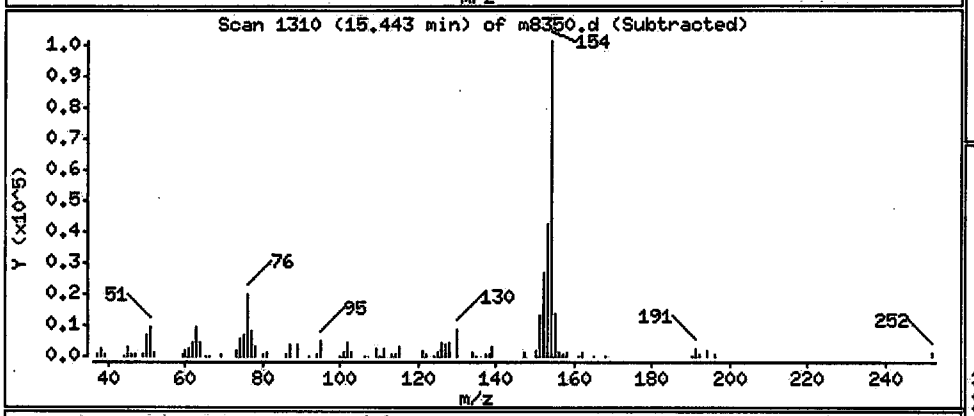
Column phase: ZB-5

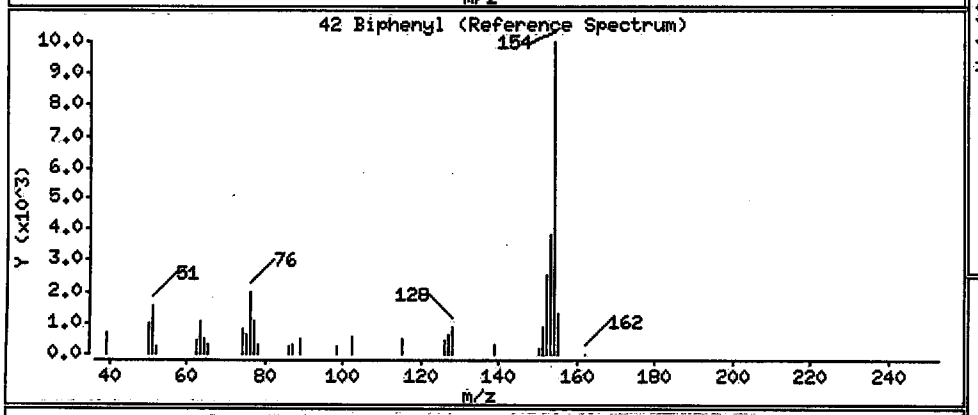
Column diameter: 0.25

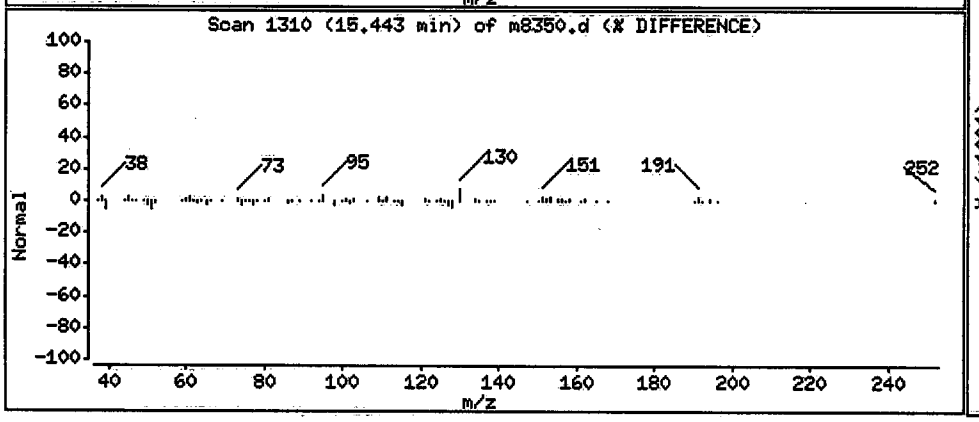
42 Biphenyl

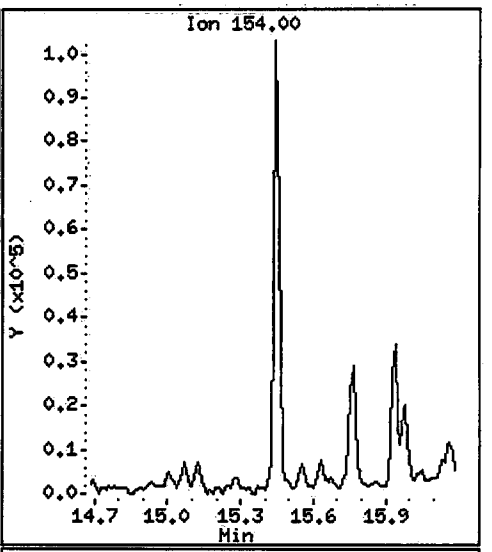
Concentration: 4.14 ug/L

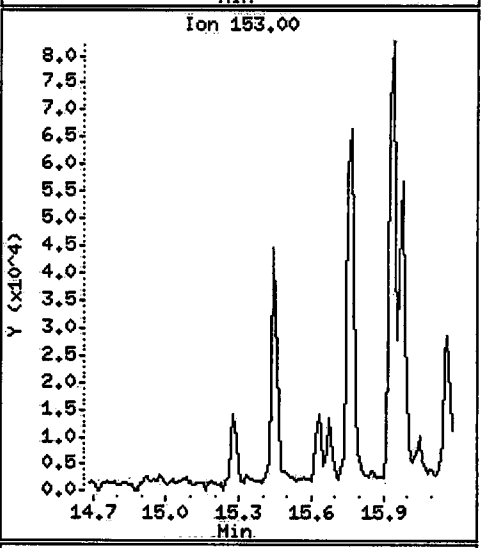


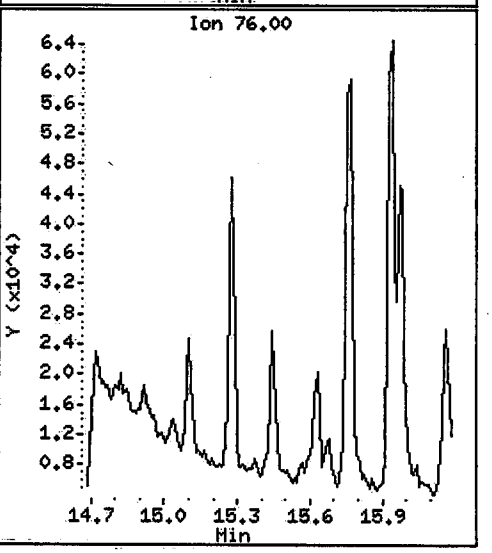












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

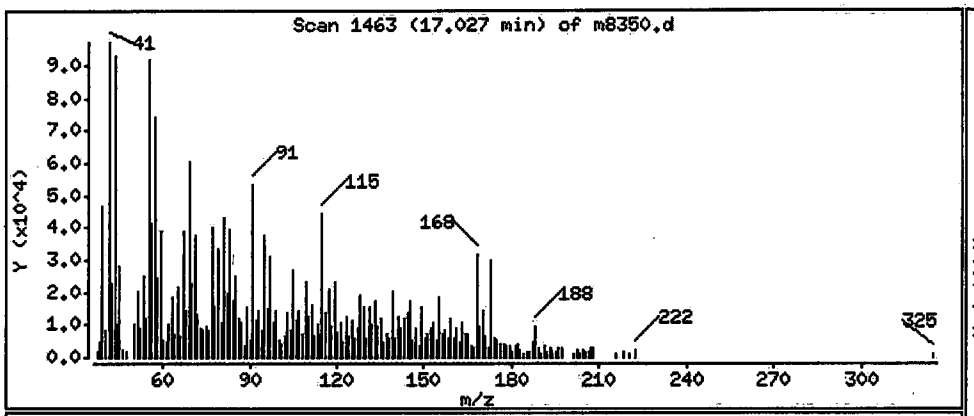
Operator: dce

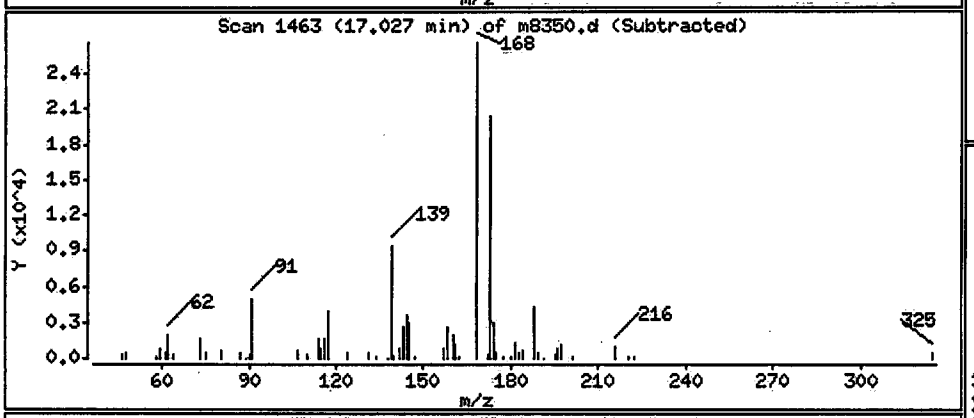
Column phase: ZB-5

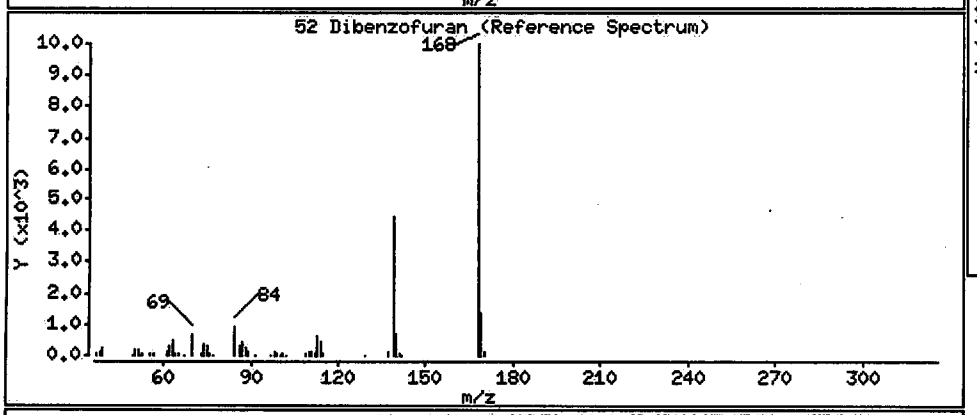
Column diameter: 0.25

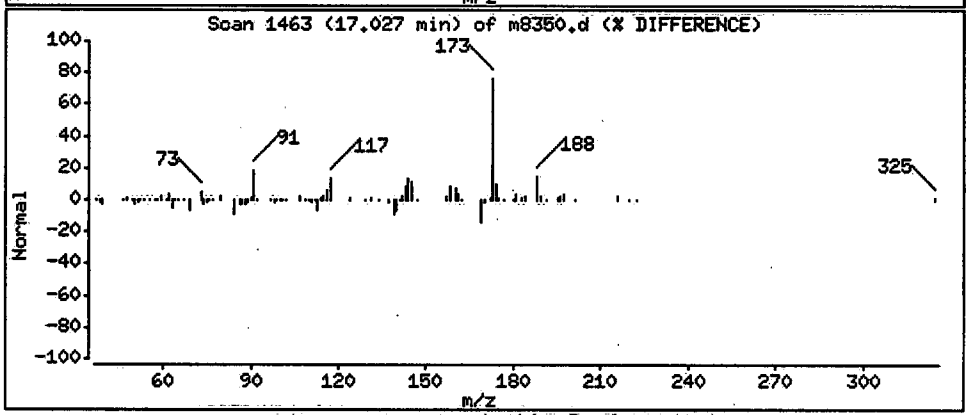
52 Dibenzofuran

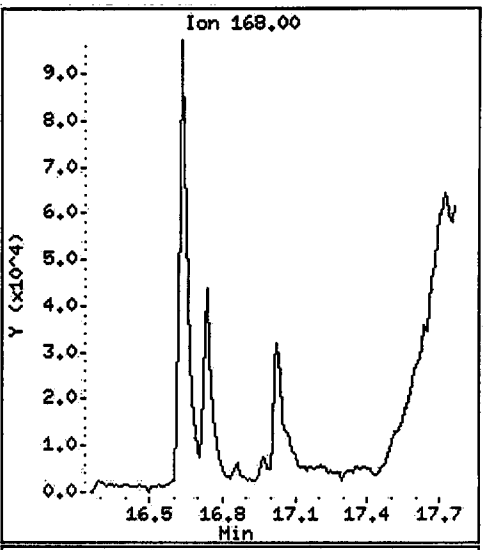
Concentration: 2.13 ug/L

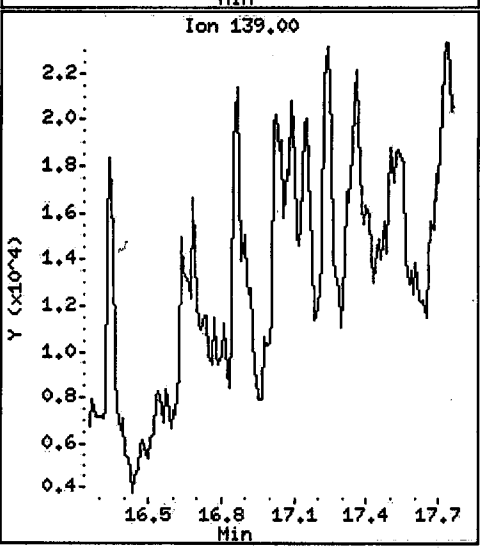












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

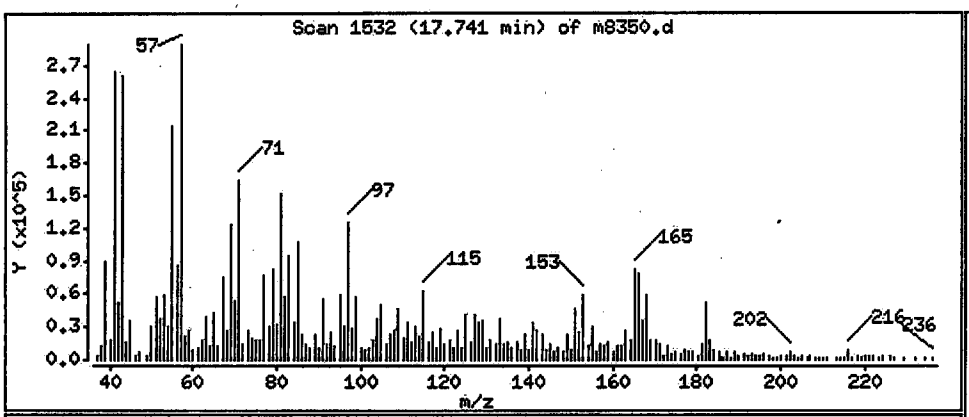
Operator: dce

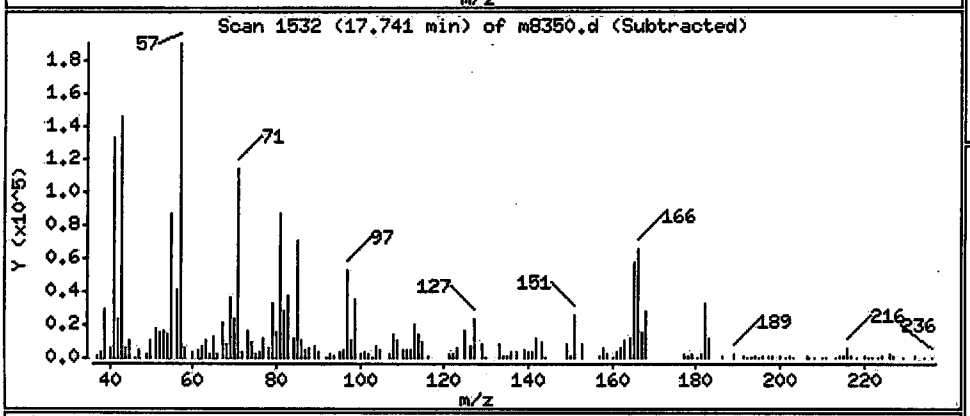
Column phase: ZB-5

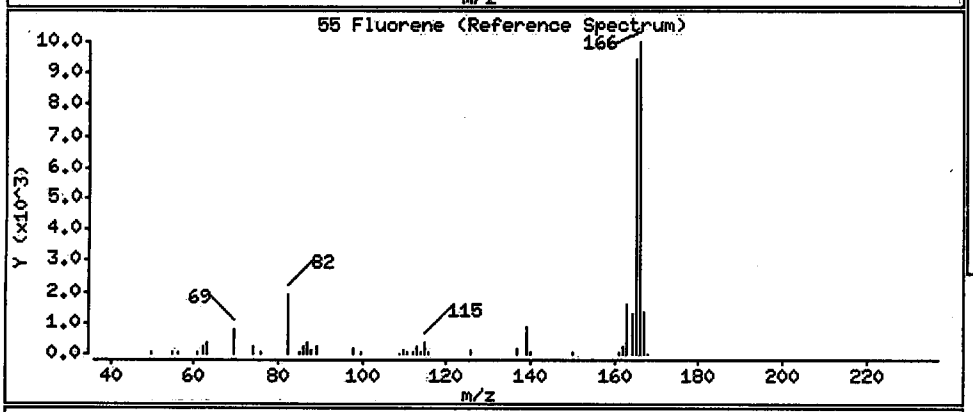
Column diameter: 0.25

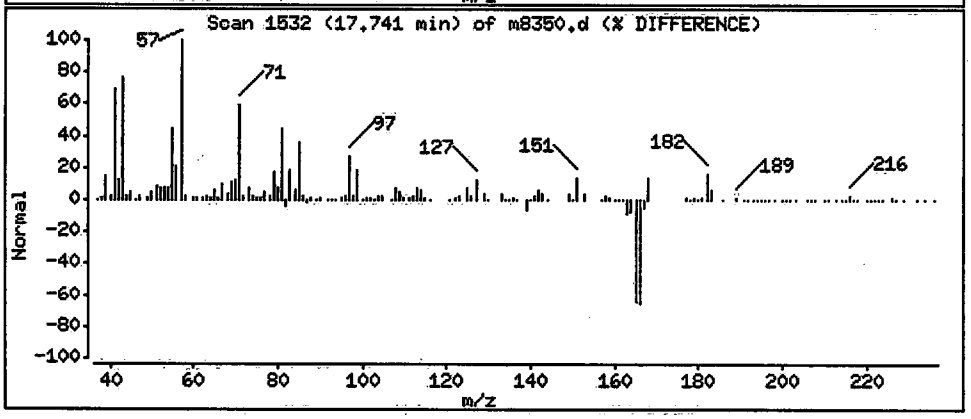
55 Fluorene

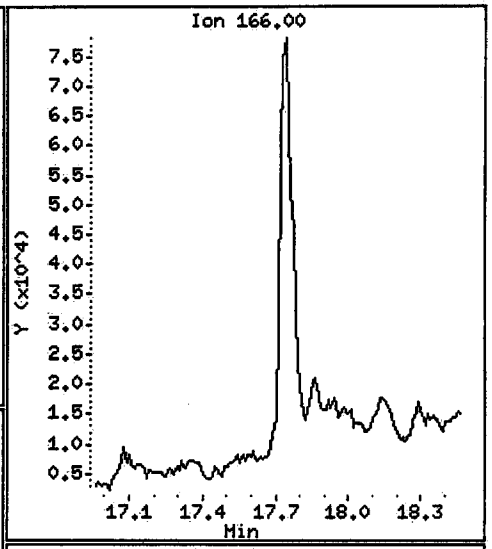
Concentration: 7.25 ug/L

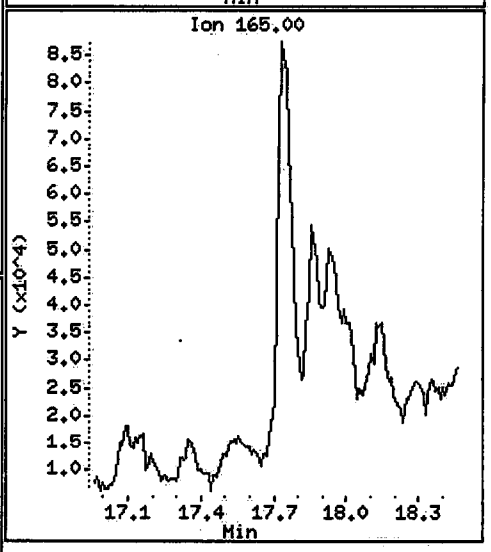












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

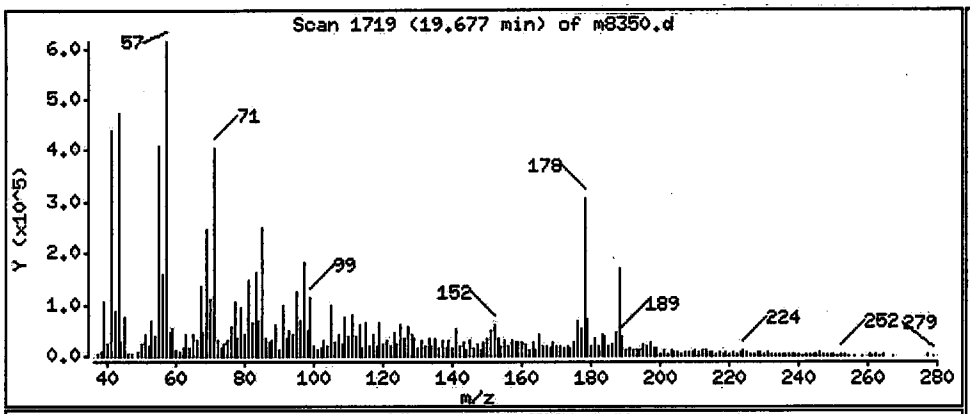
Operator: doe

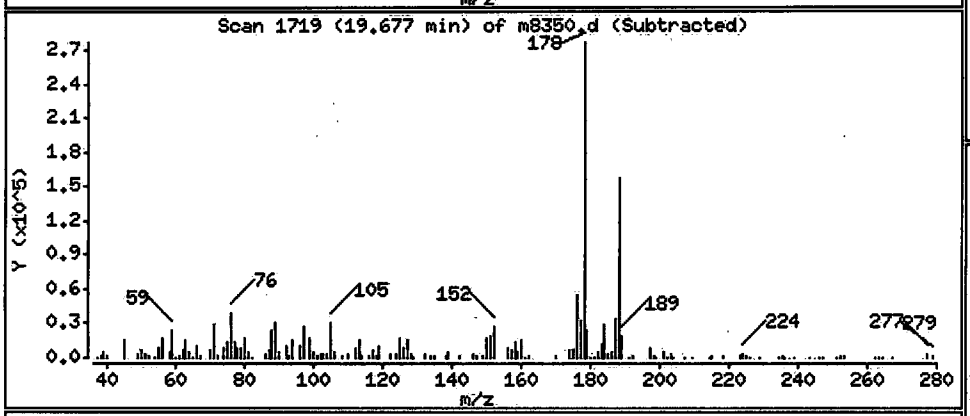
Column phase: ZB-5

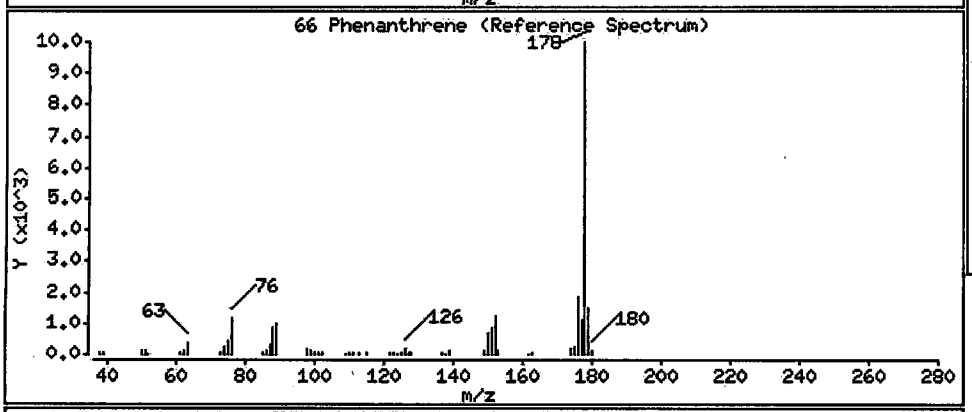
Column diameter: 0.25

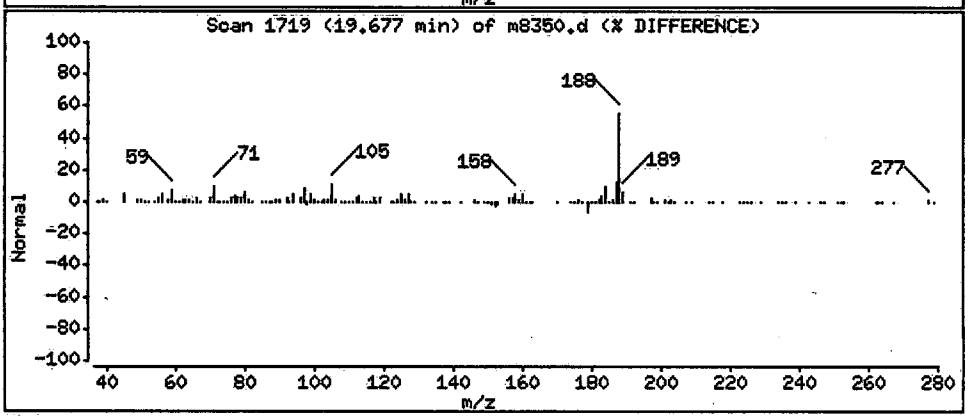
66 Phenanthrene

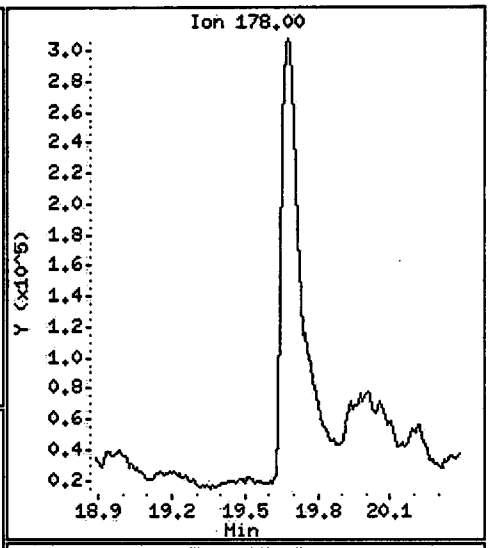
Concentration: 18.8 ug/L

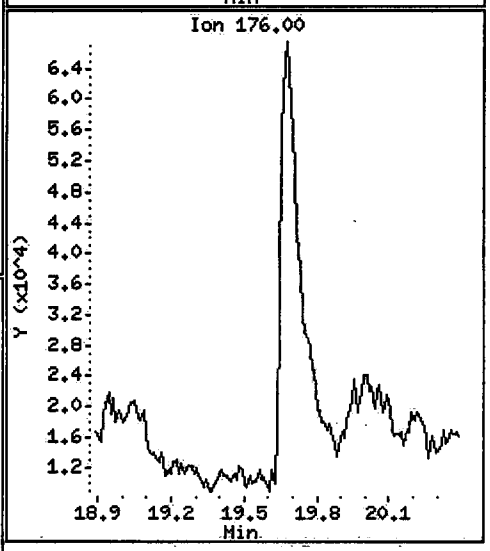












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

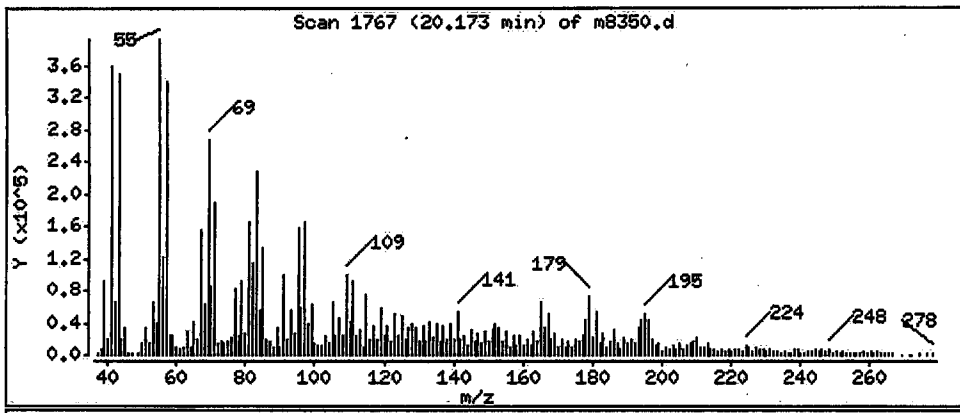
Operator: dce

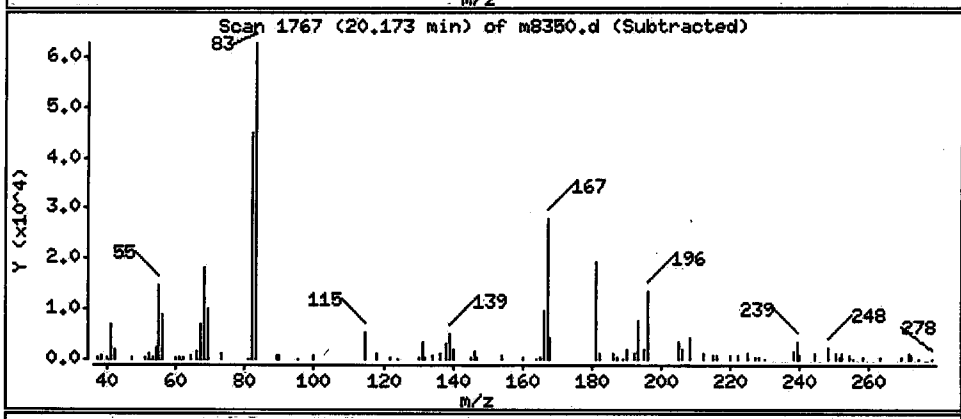
Column phase: ZB-5

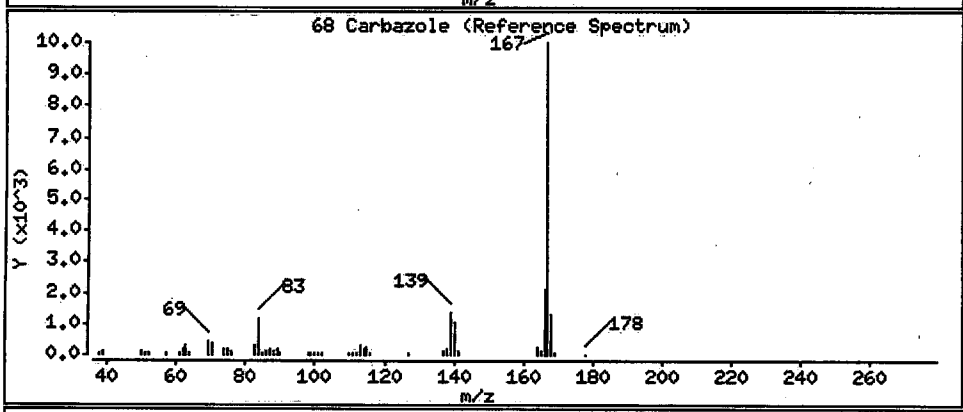
Column diameter: 0.25

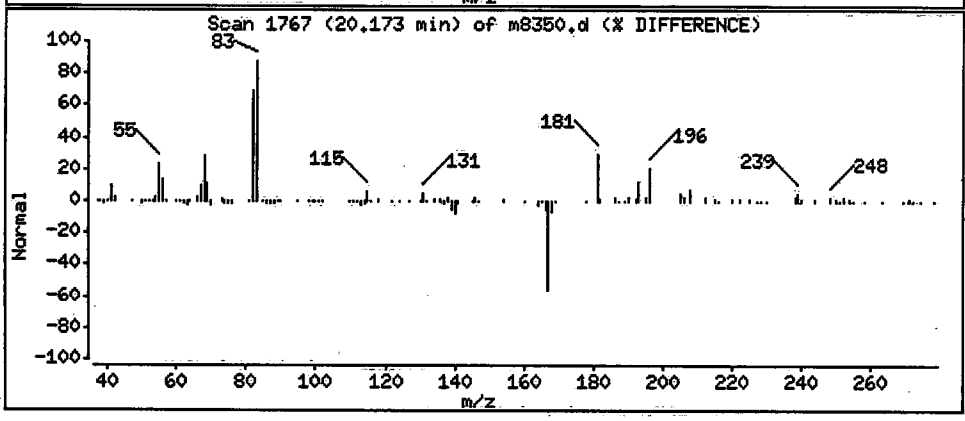
68 Carbazole

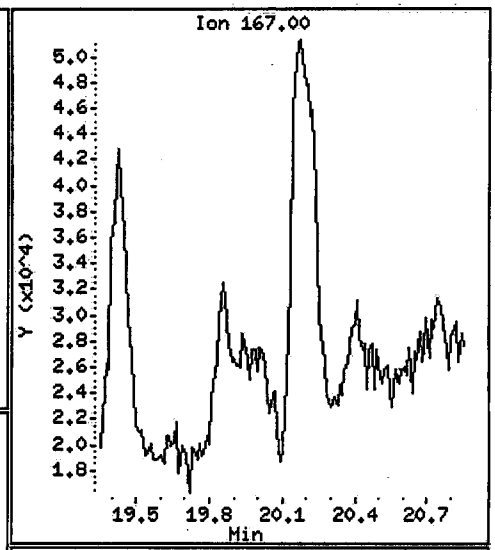
Concentration: 2.85 ug/L

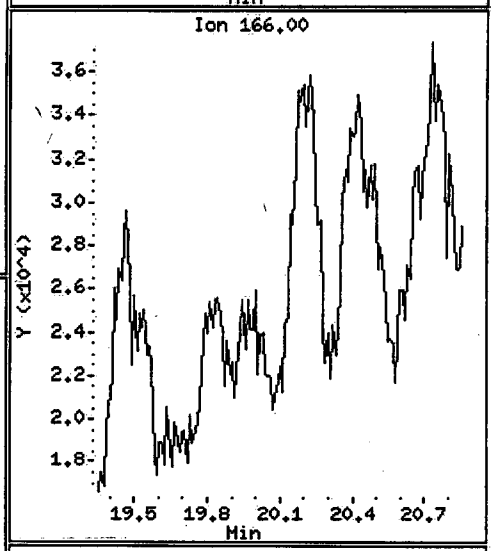


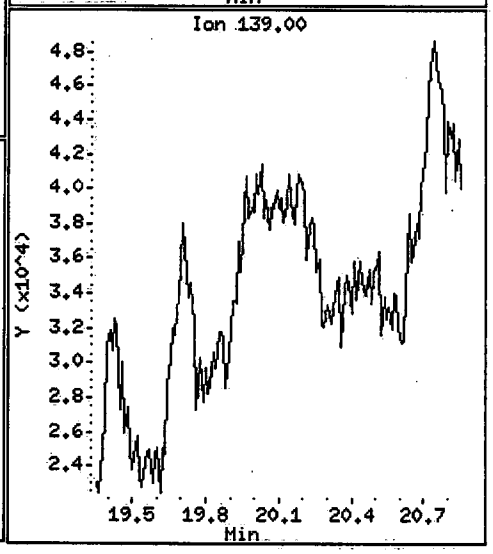












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

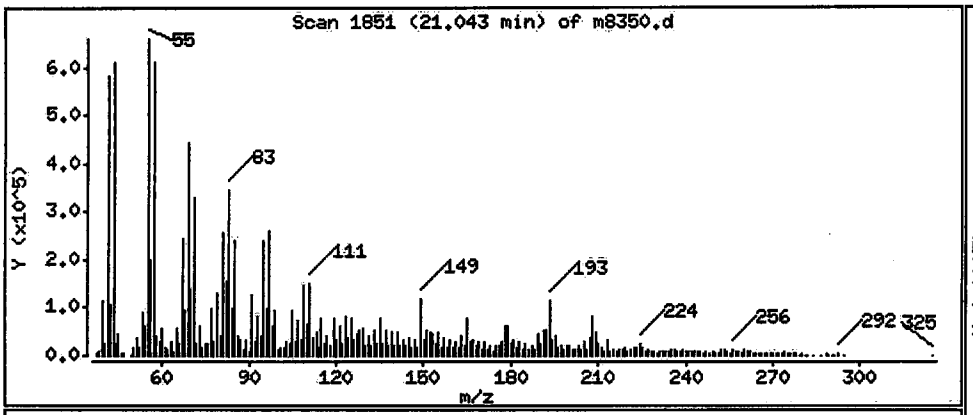
Operator: dce

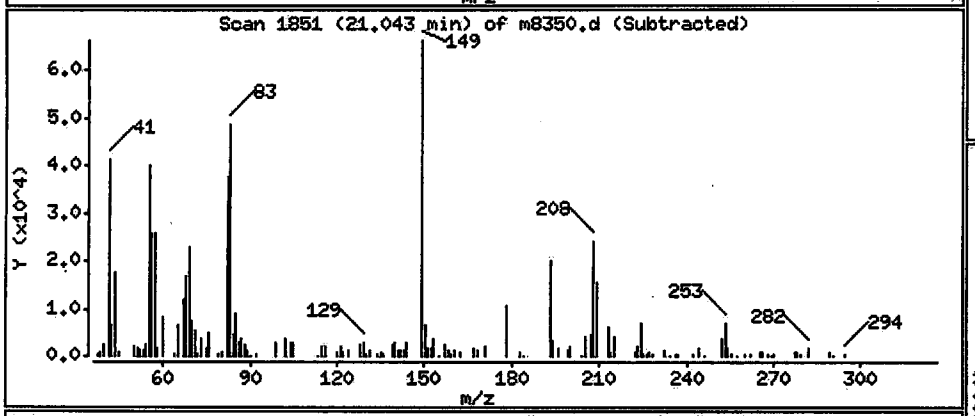
Column phase: ZB-5

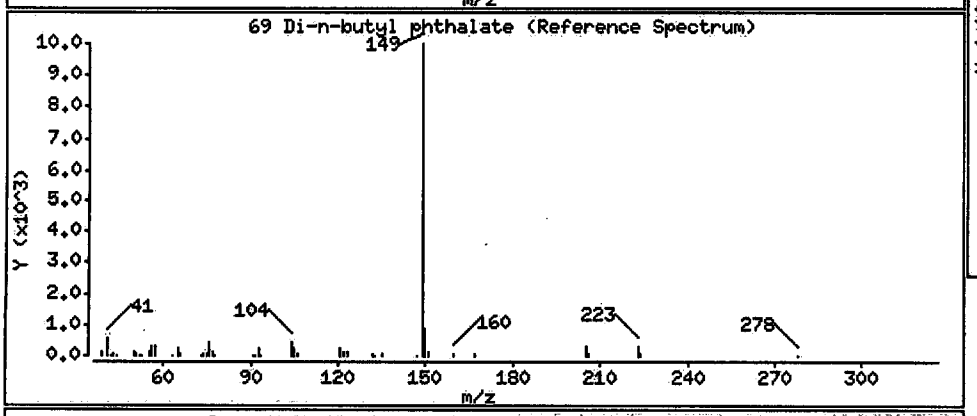
Column diameter: 0.25

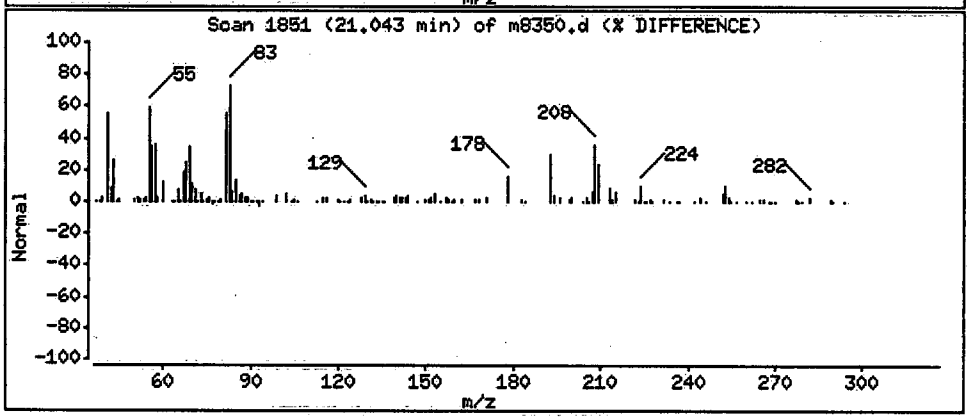
69 Di-n-butyl phthalate

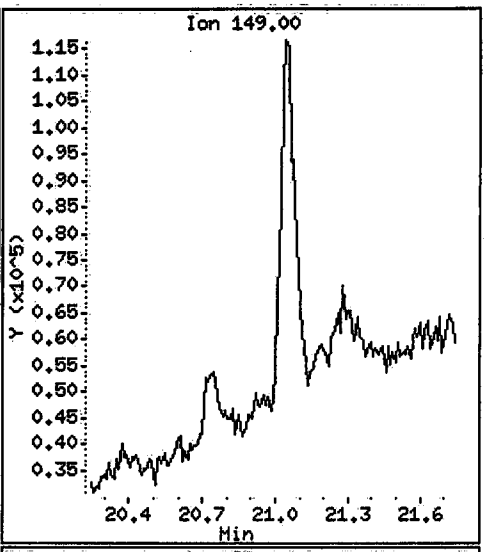
Concentration: 2.26 ug/L

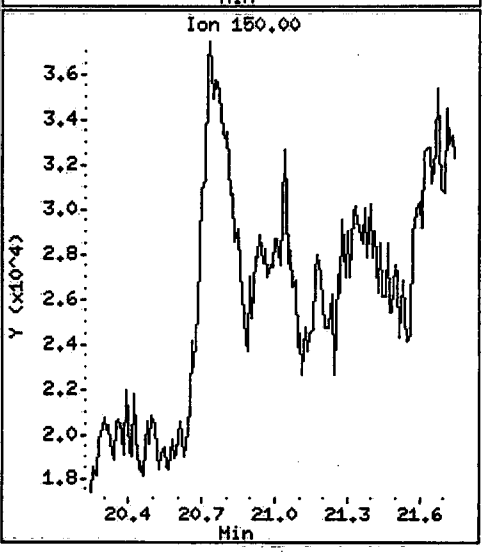












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

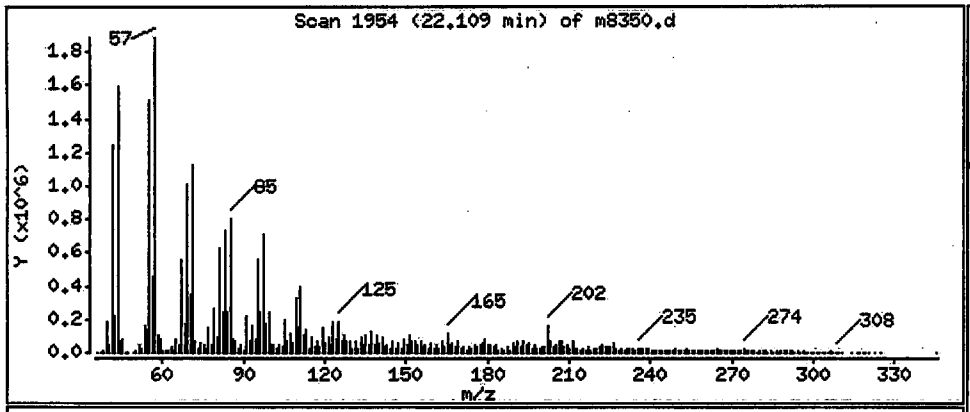
Operator: dce

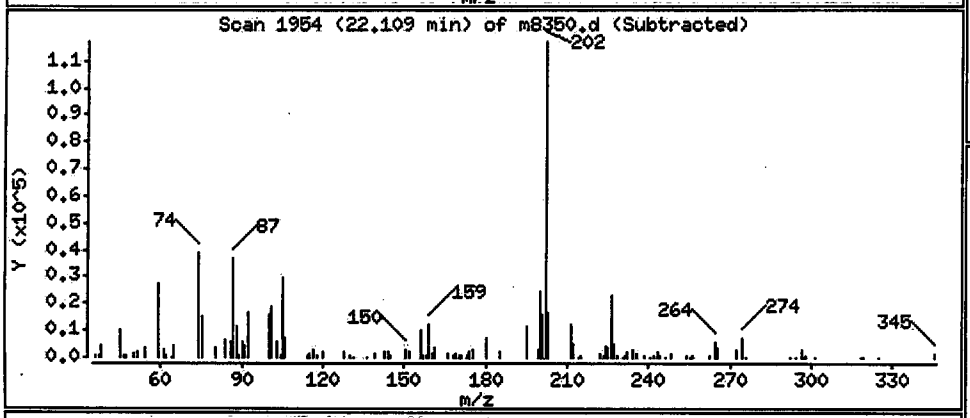
Column phase: ZB-5

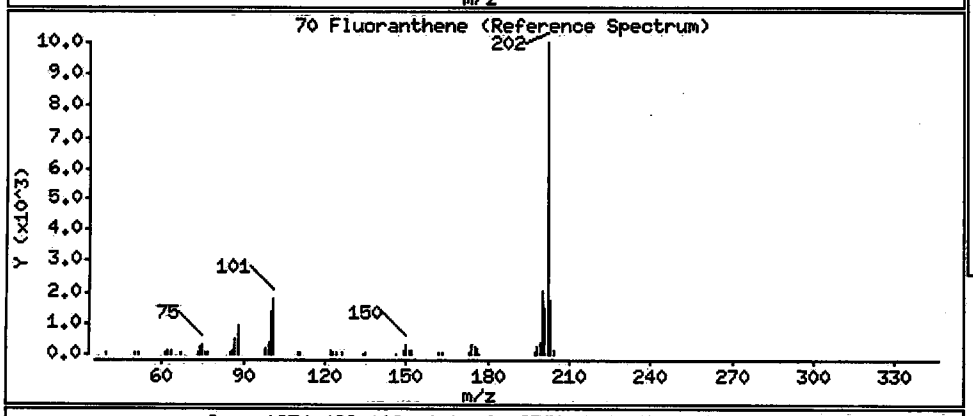
Column diameter: 0.25

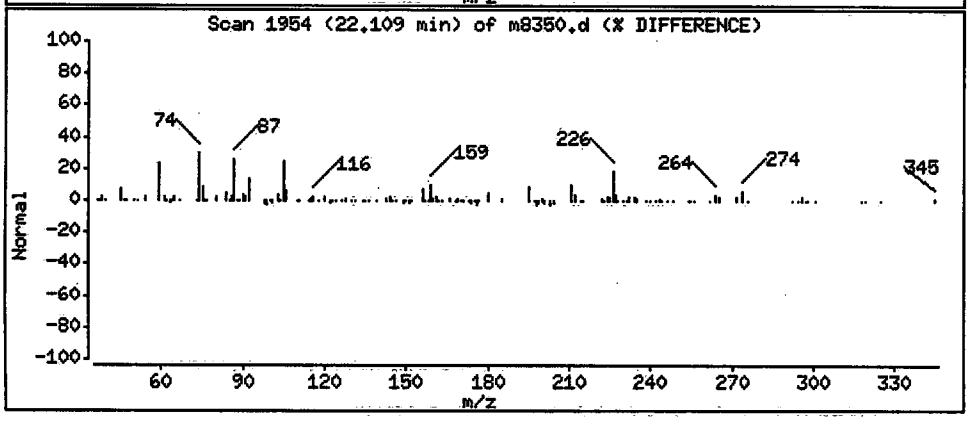
70 Fluoranthene

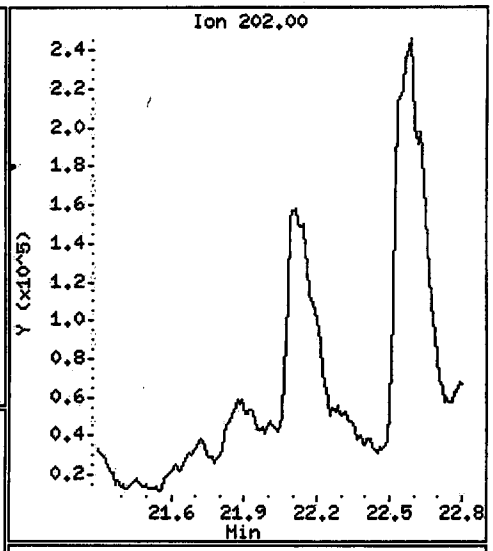
Concentration: 9.14 ug/L

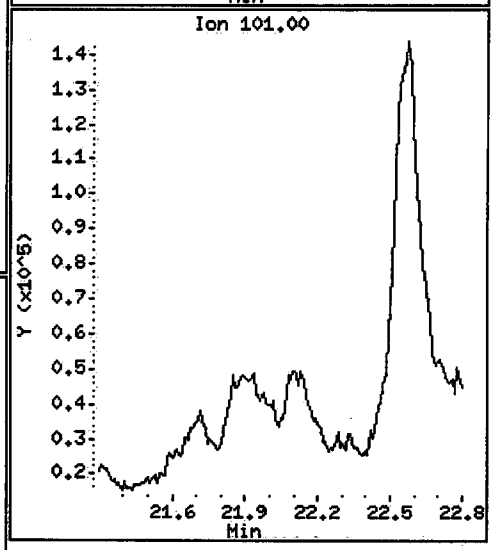












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

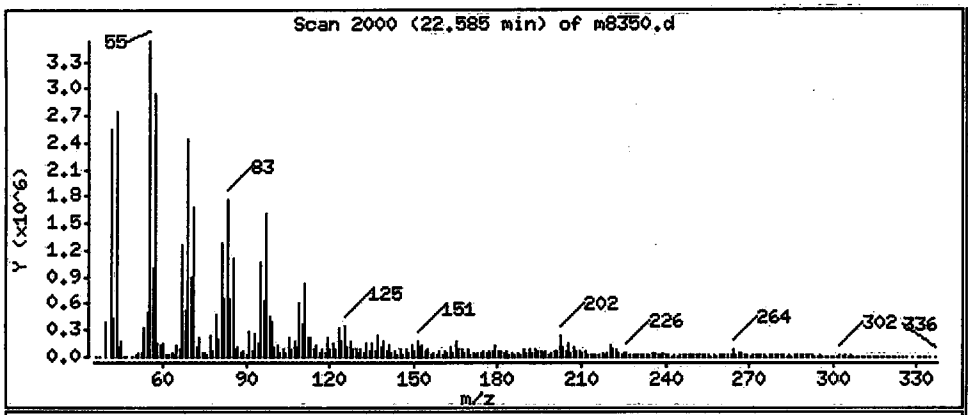
Operator: dce

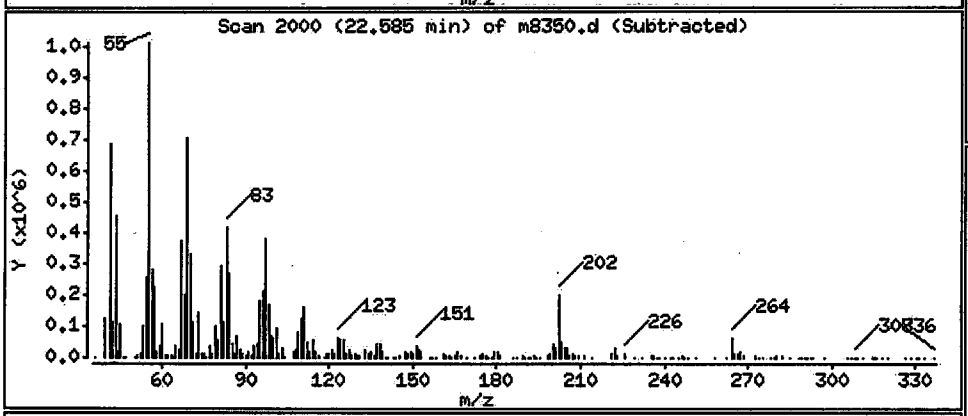
Column phase: ZB-5

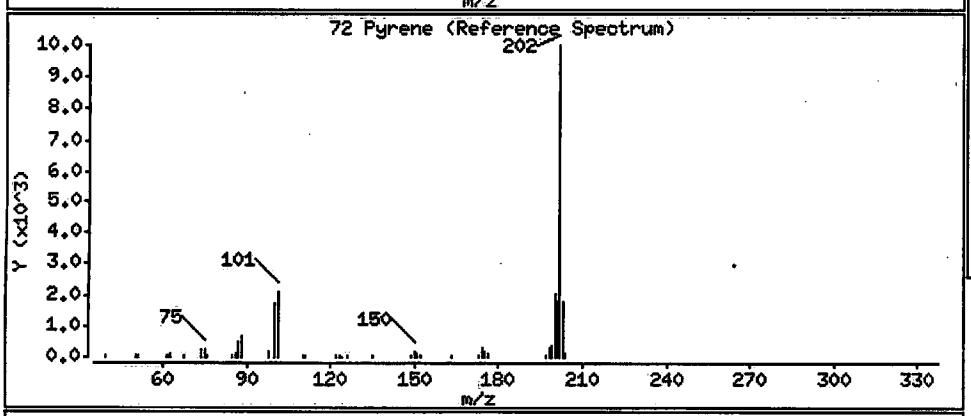
Column diameter: 0.25

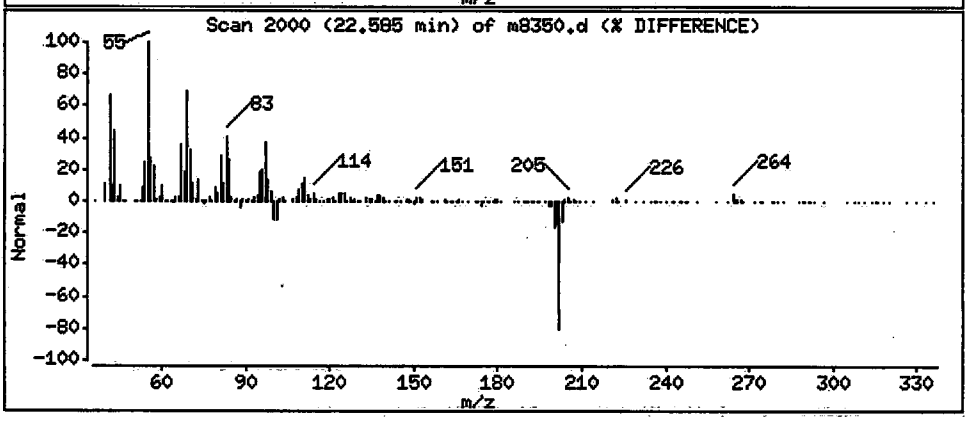
72 Pyrene

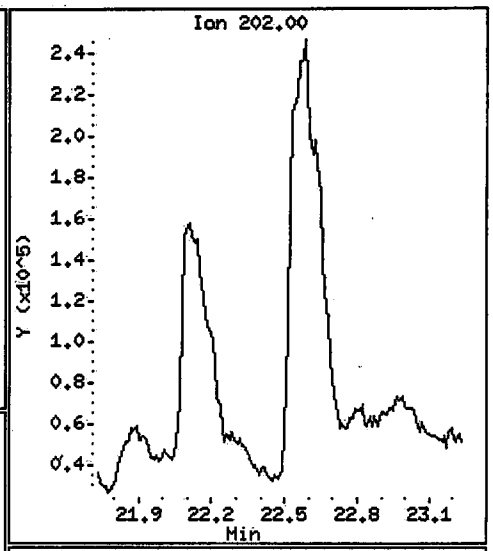
Concentration: 10.5 ug/L

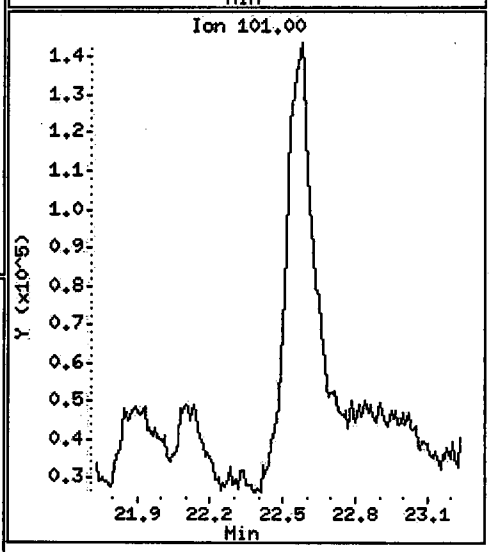












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

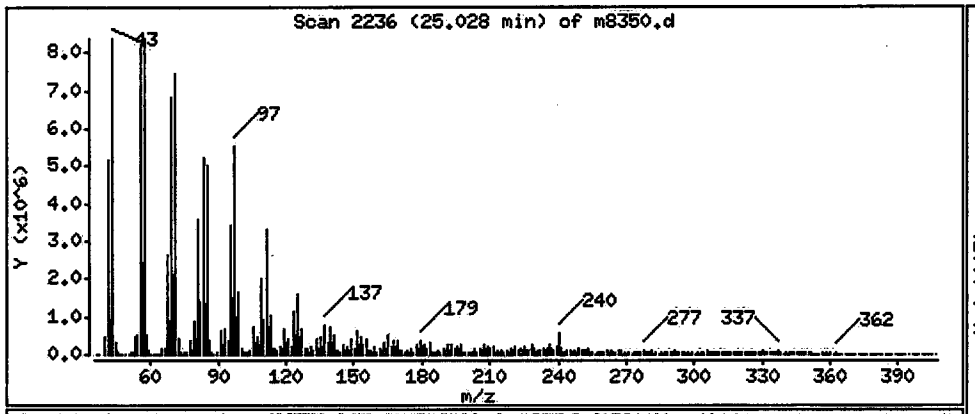
Operator: dce

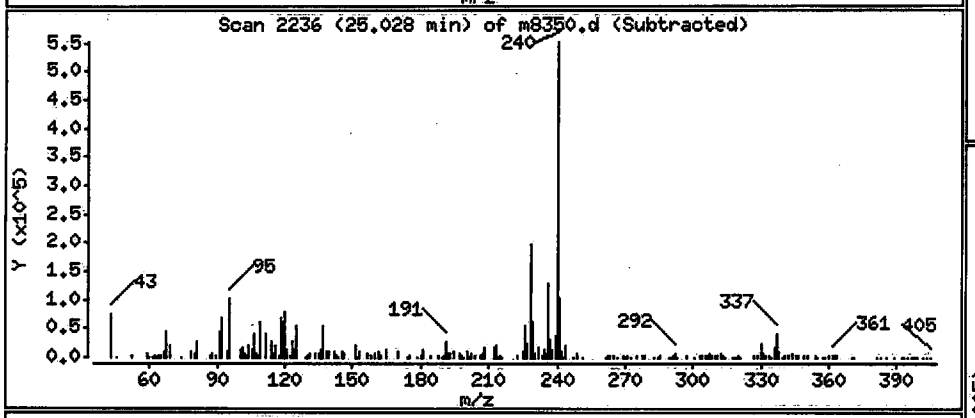
Column phase: ZB-5

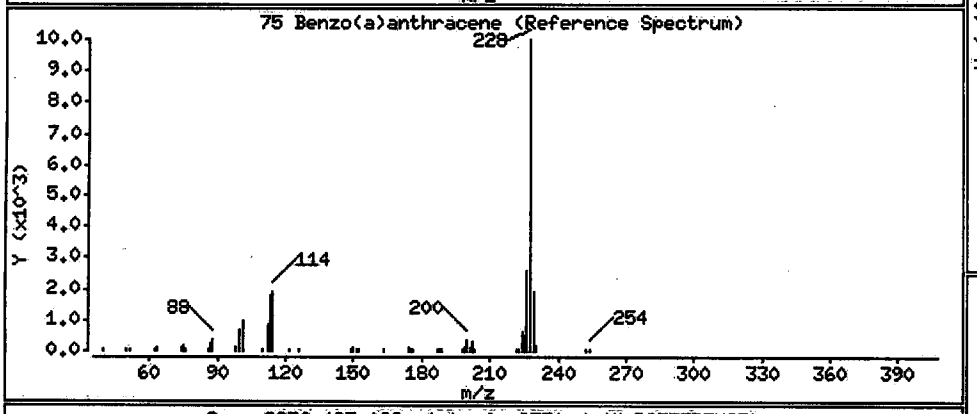
Column diameter: 0.25

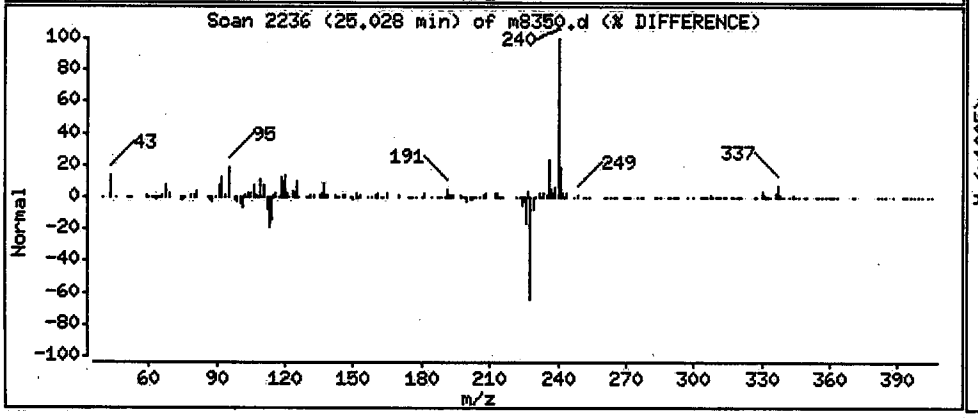
75 Benzo(a)anthracene

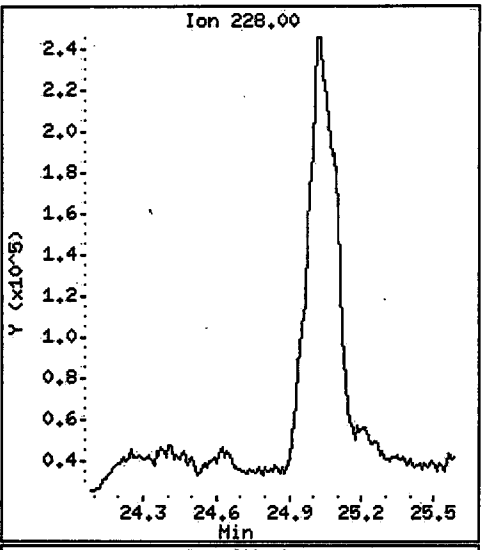
Concentration: 9.49 ug/L

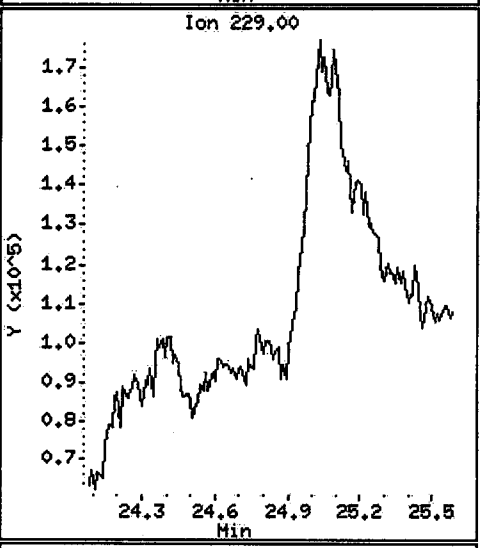


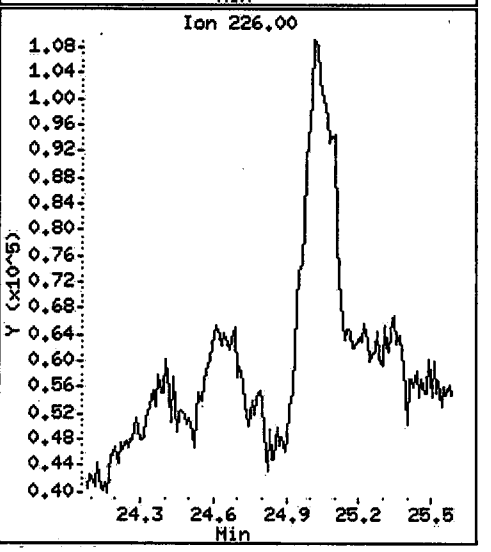












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

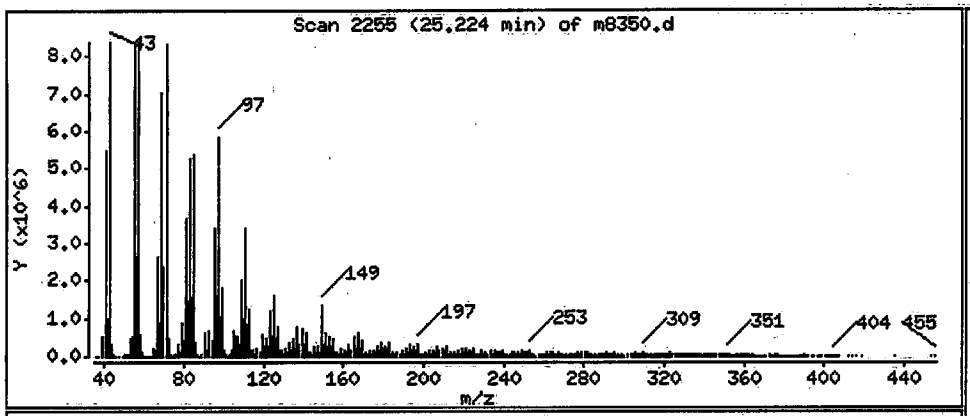
Operator: dce

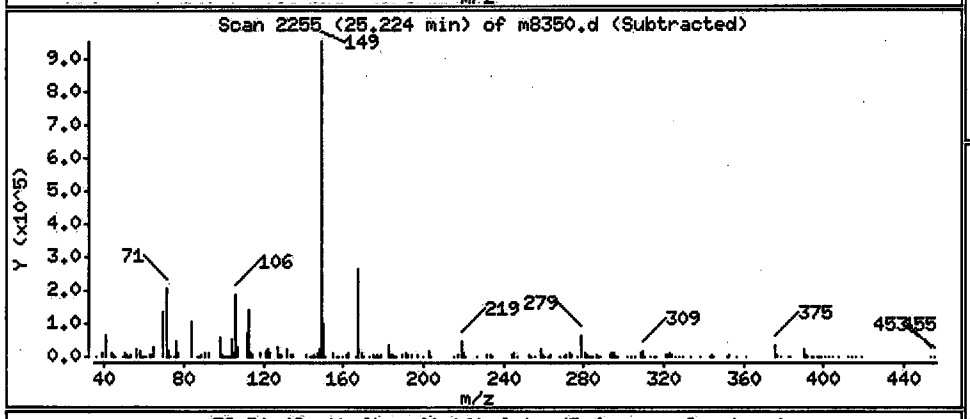
Column phase: ZB-5

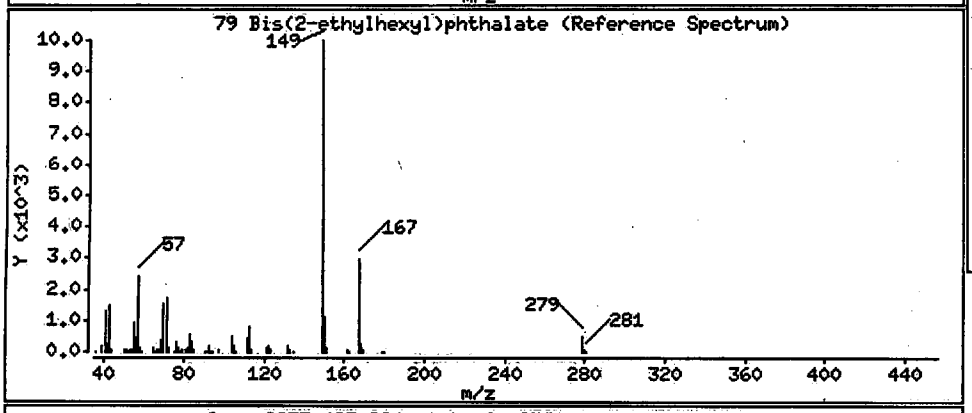
Column diameter: 0.25

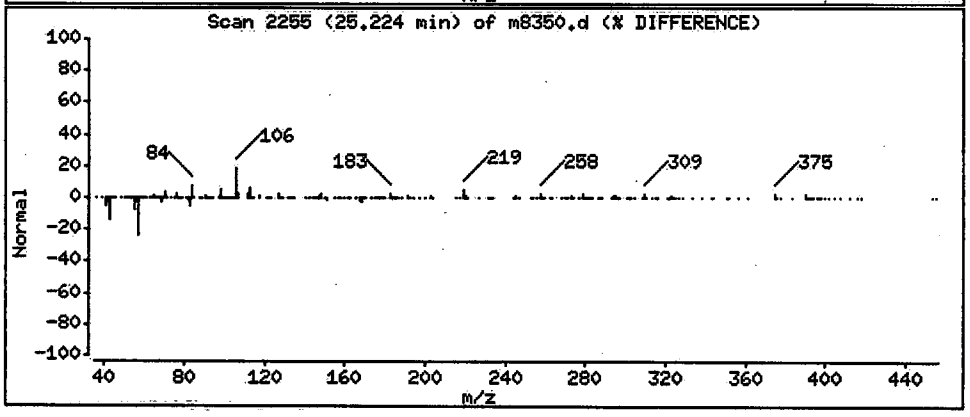
79 Bis(2-ethylhexyl)phthalate

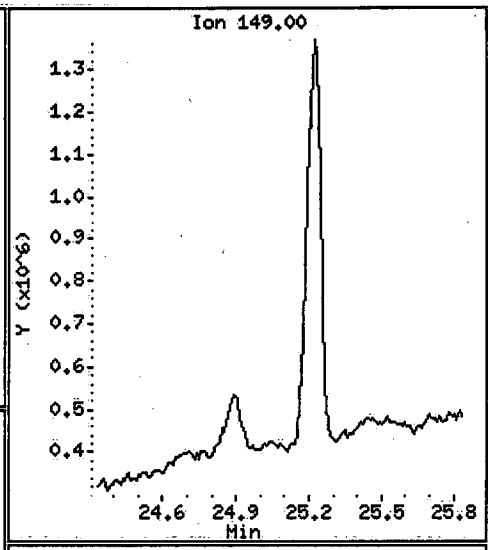
Concentration: 29.0 ug/L

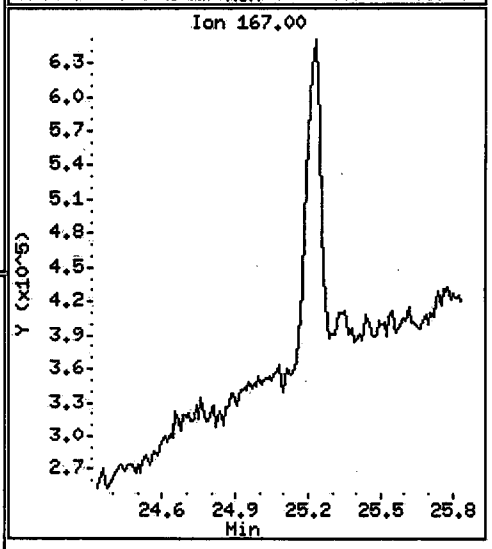












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

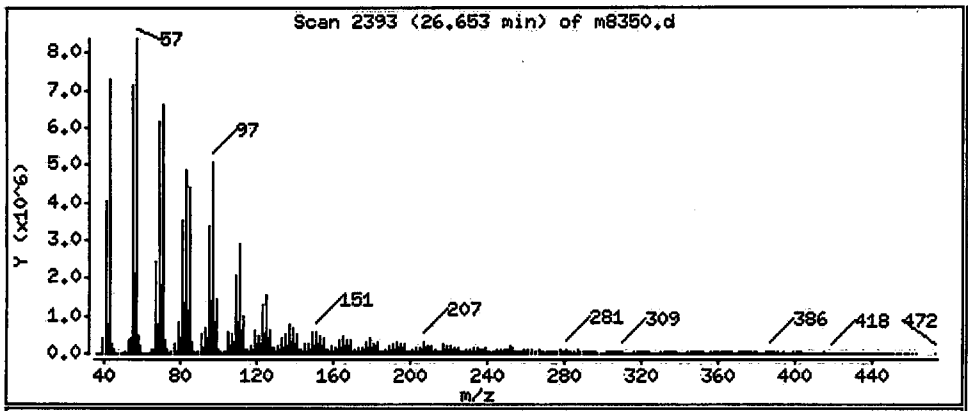
Operator: dce

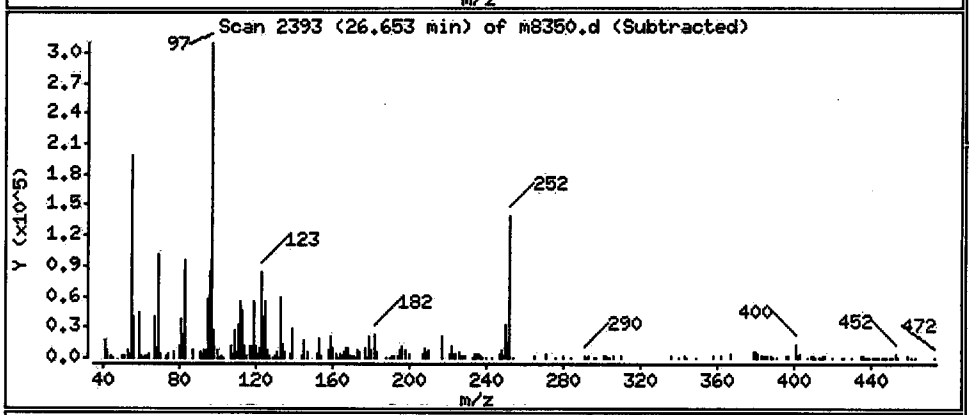
Column phase: ZB-5

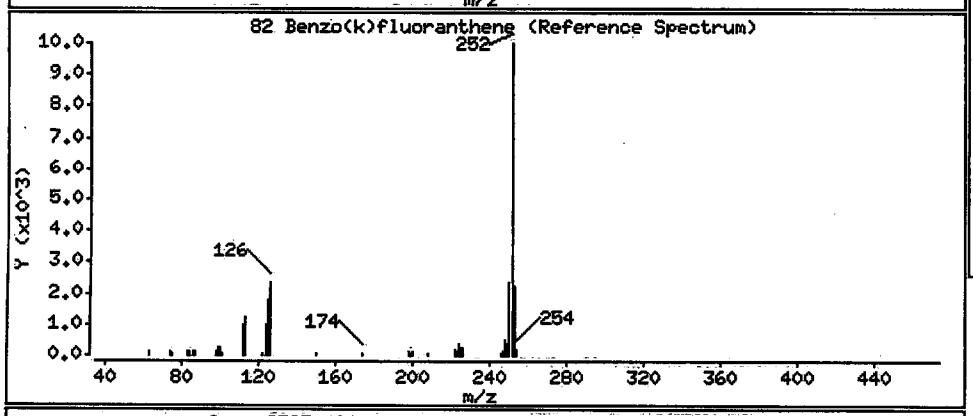
Column diameter: 0.25

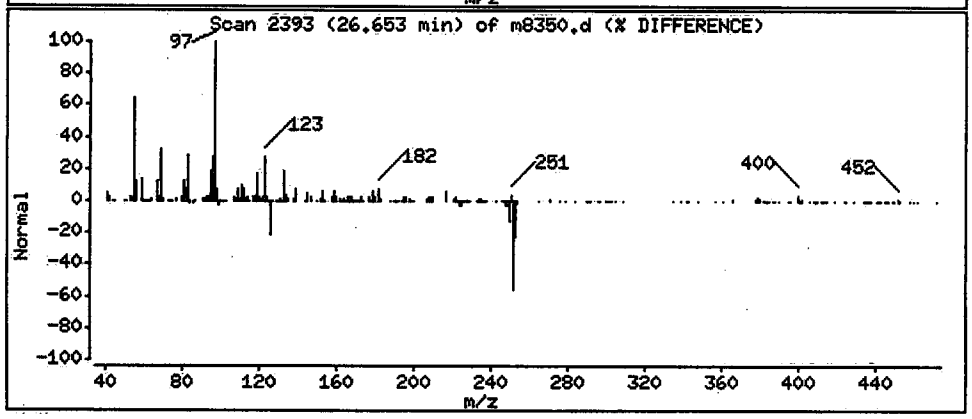
82 Benzo(k)fluoranthene

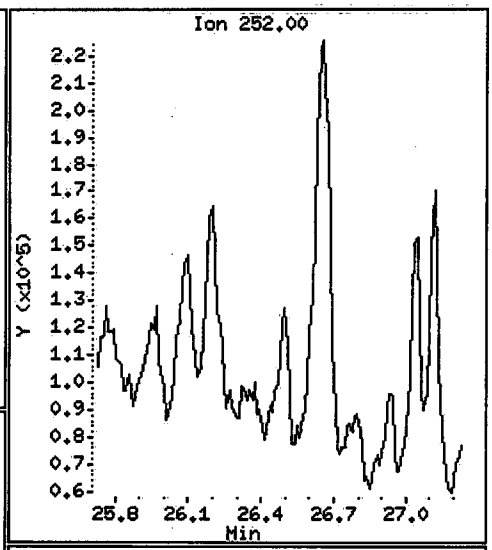
Concentration: 8.10 ug/L

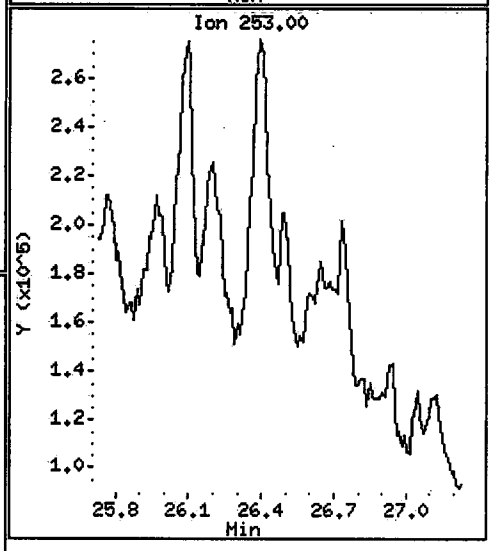












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

Volume Injected (uL): 2.0

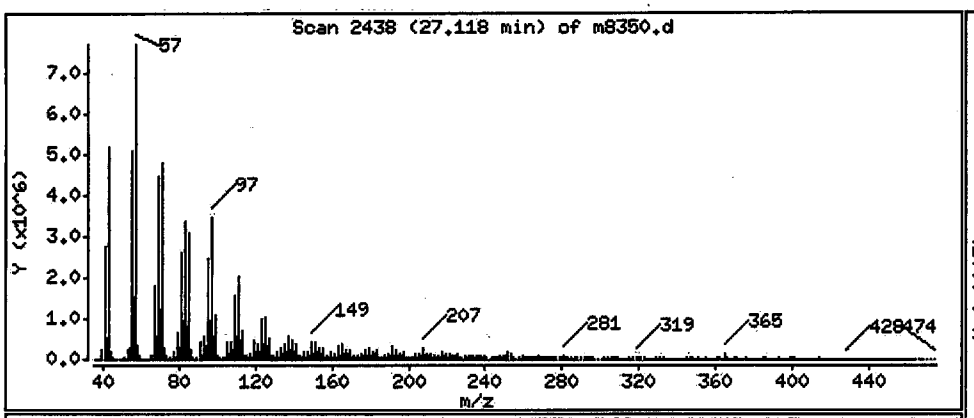
Operator: dce

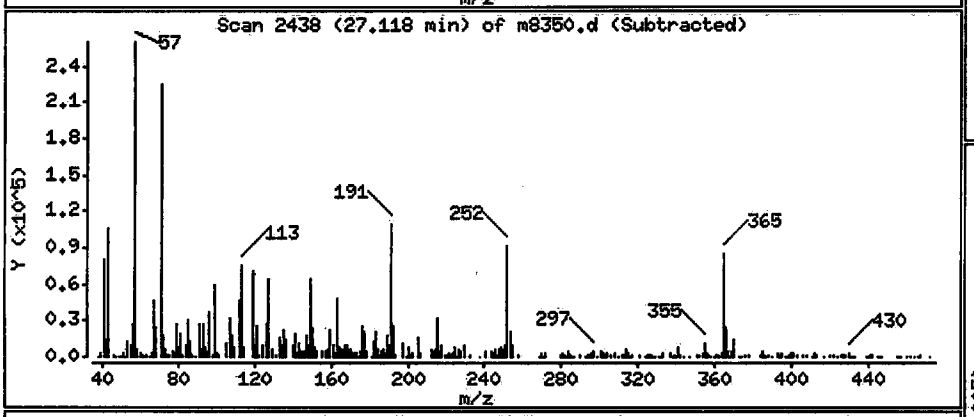
Column phase: ZB-5

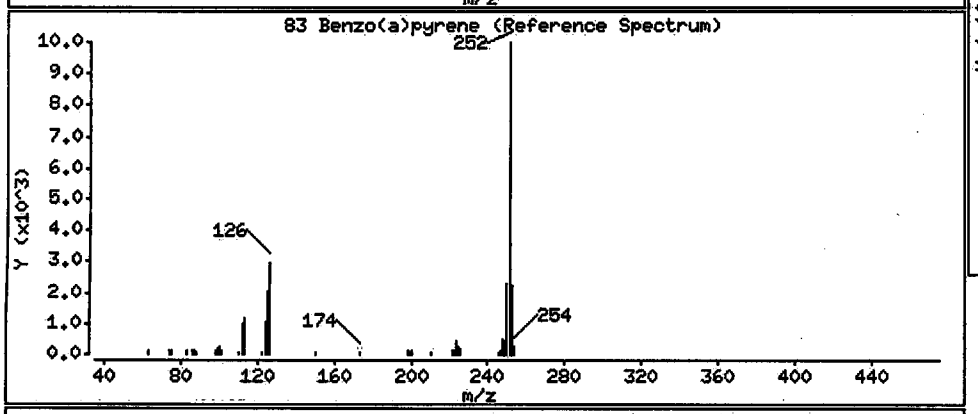
Column diameter: 0.25

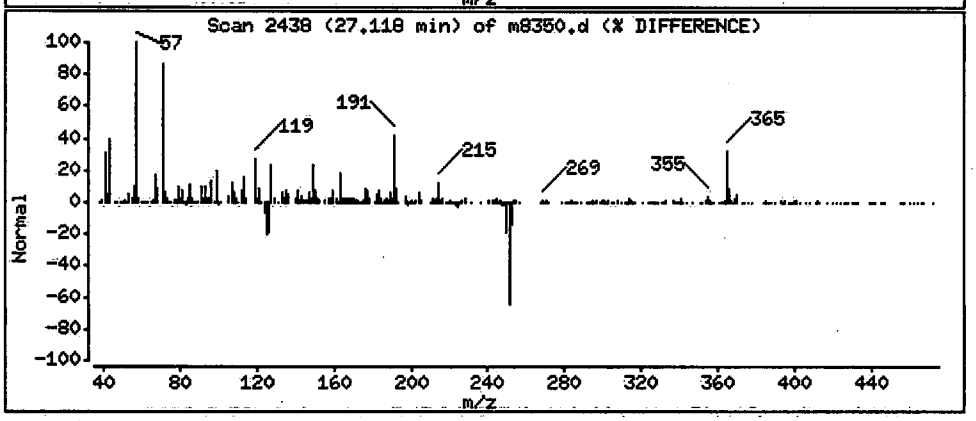
83 Benzo(a)pyrene

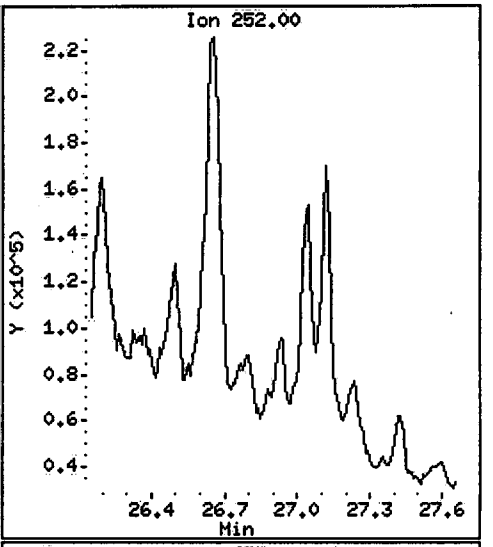
Concentration: 3.43 ug/L

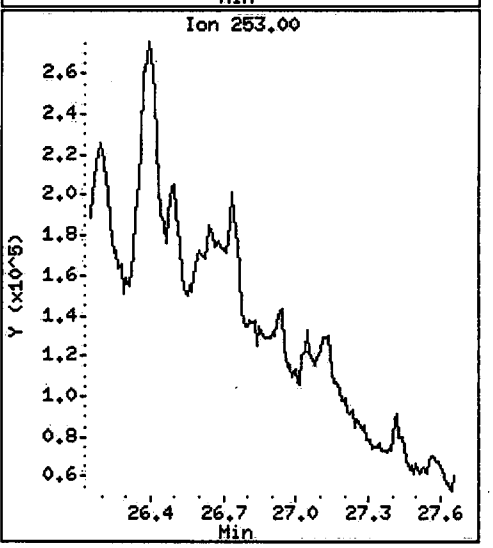












Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

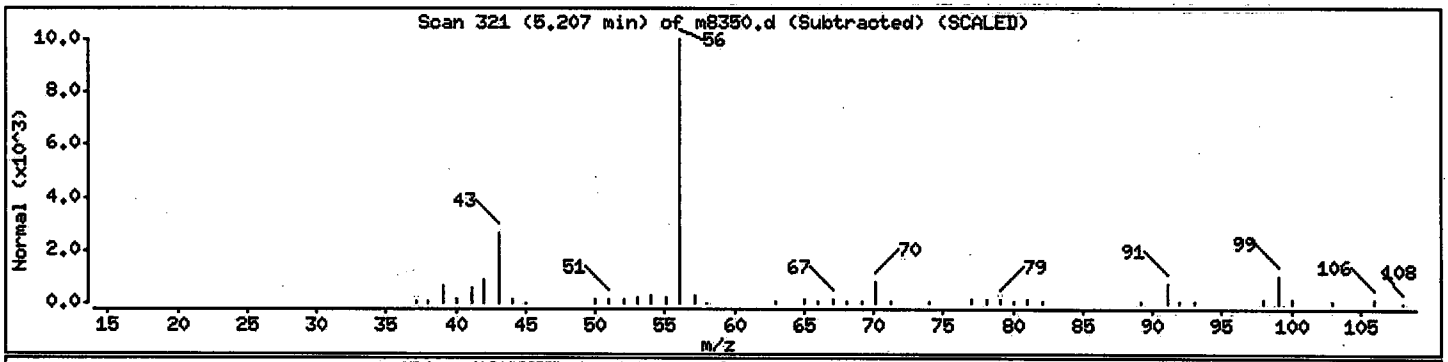
Volume Injected (uL): 2.0

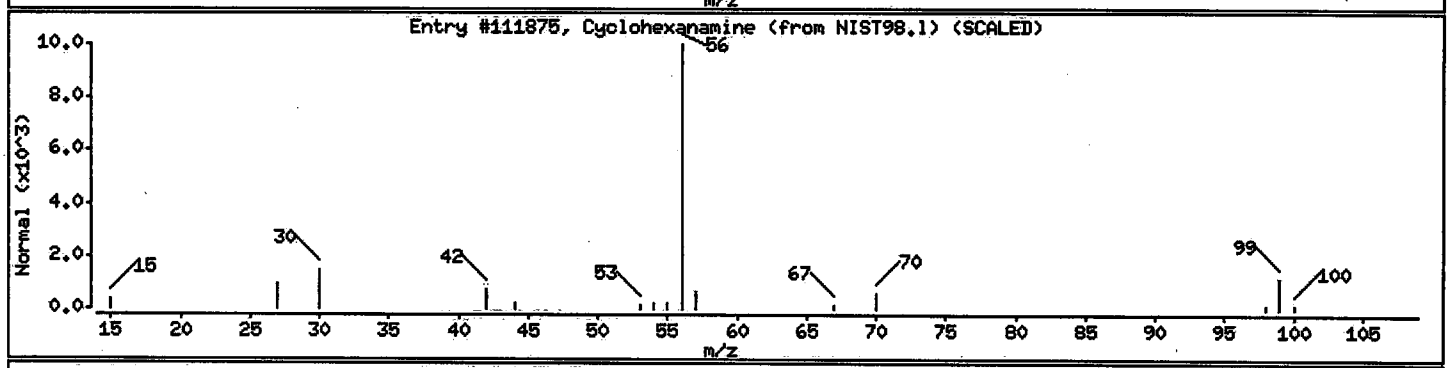
Operator: doe

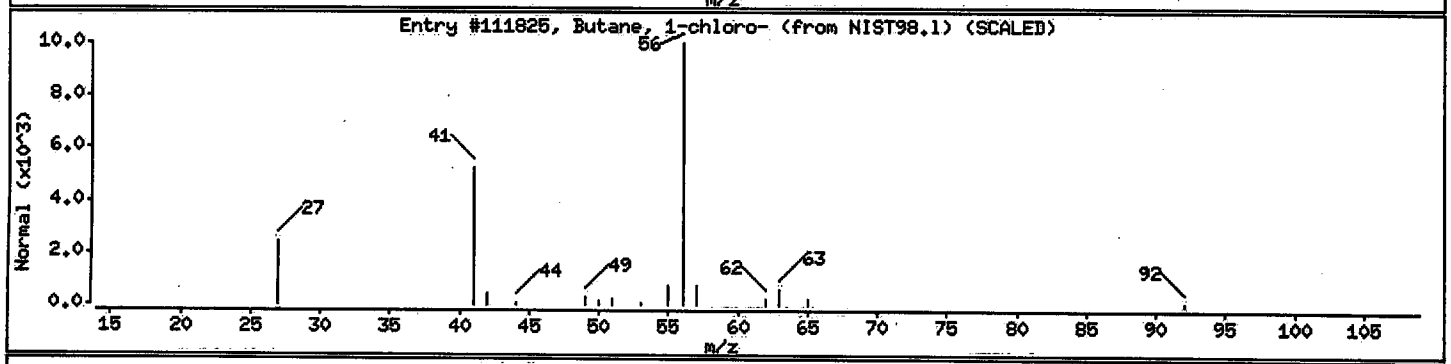
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexanamine	108-91-8	NIST98.1	111875	86	C6H13N	99
Butane, 1-chloro-	109-69-3	NIST98.1	111825	59	C4H9Cl	92







Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

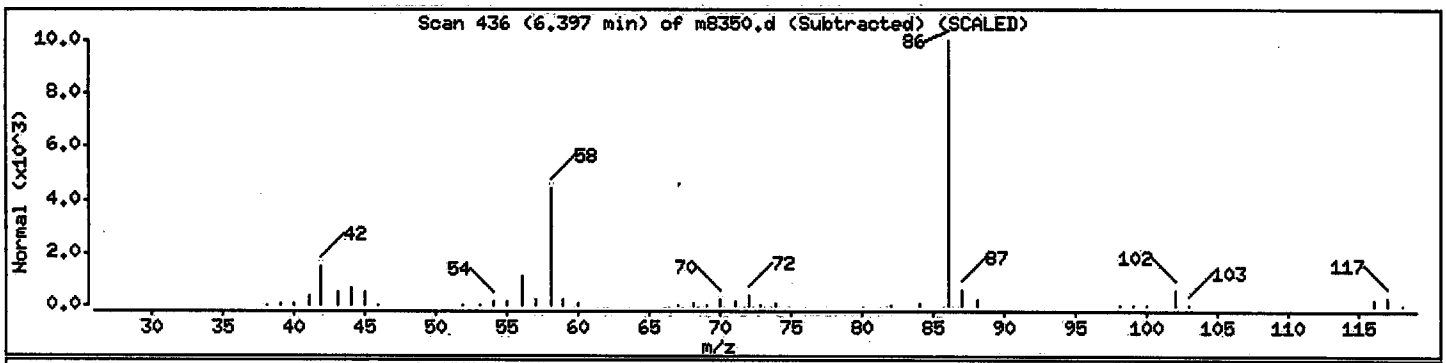
Volume Injected (uL): 2.0

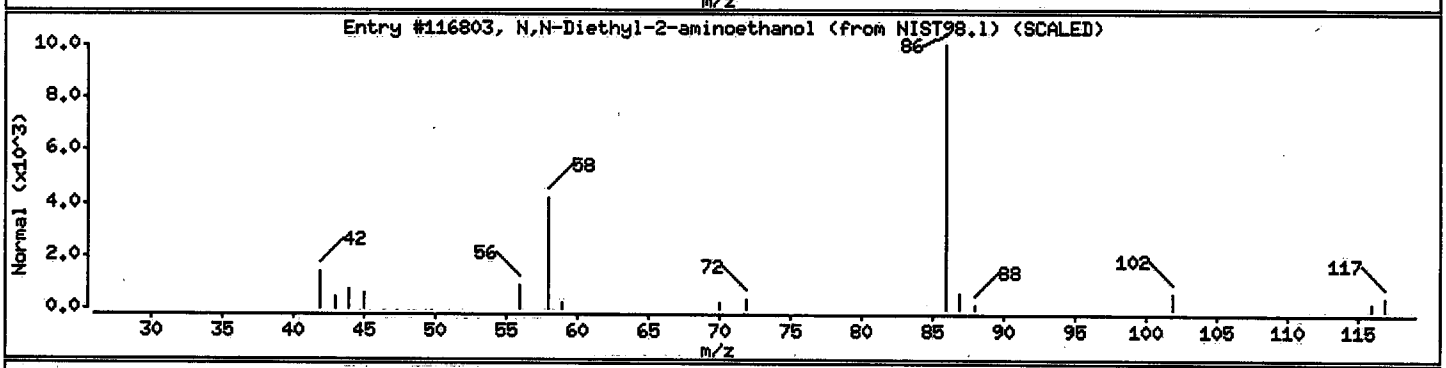
Operator: dce

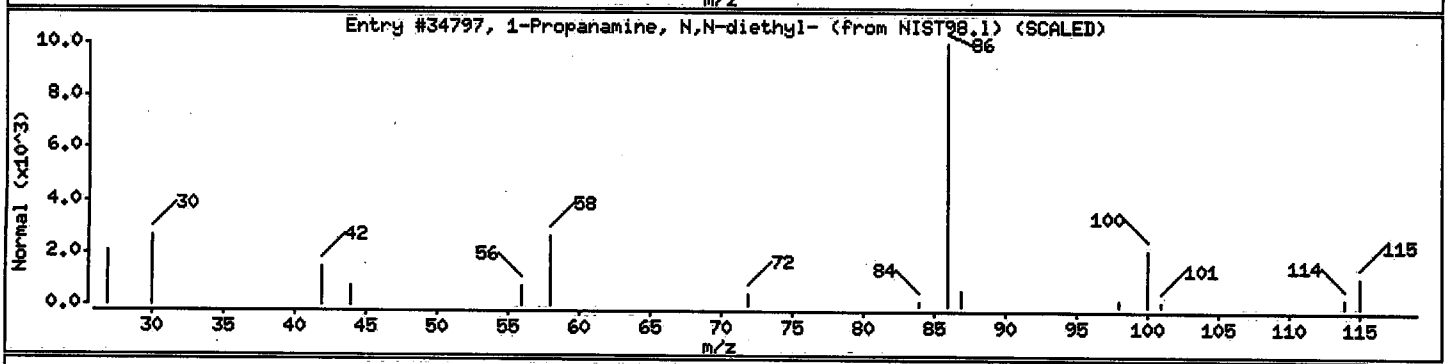
Column phase: ZB-5

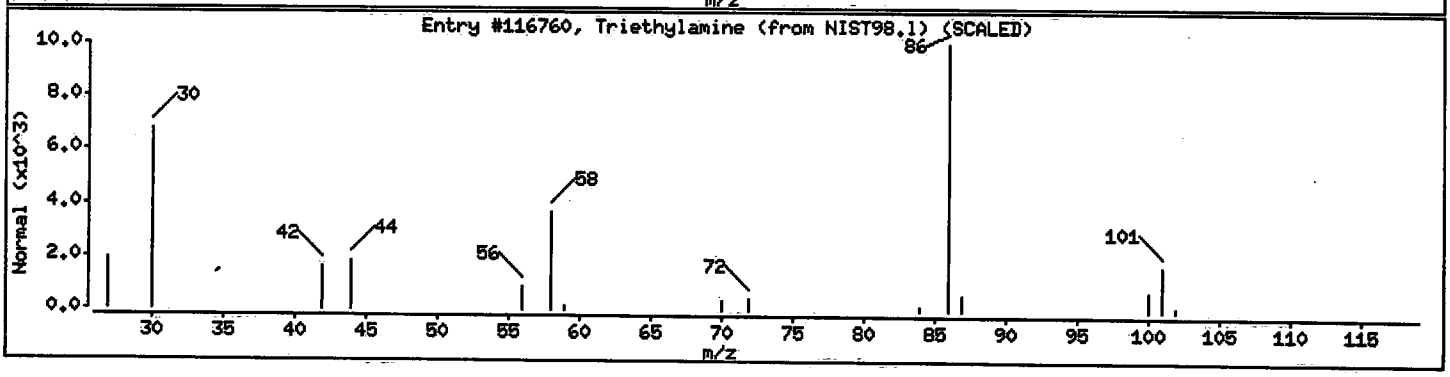
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
N,N-Diethyl-2-aminoethanol	100-37-8	NIST98.1	116803	94	C6H15NO	117
1-Propanamine, N,N-diethyl-	4458-31-5	NIST98.1	34797	78	C7H17N	115
Triethylamine	121-44-8	NIST98.1	116760	78	C6H15N	101









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

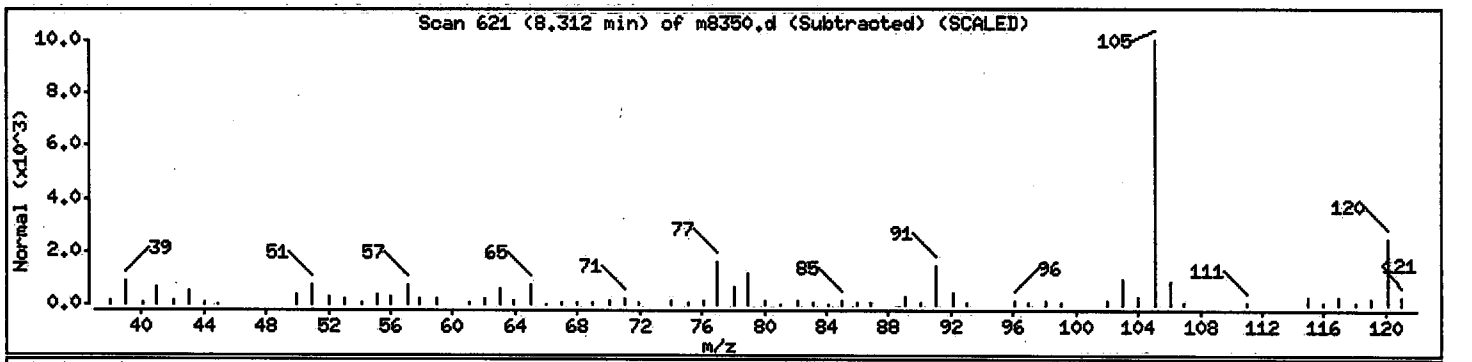
Volume Injected (uL): 2.0

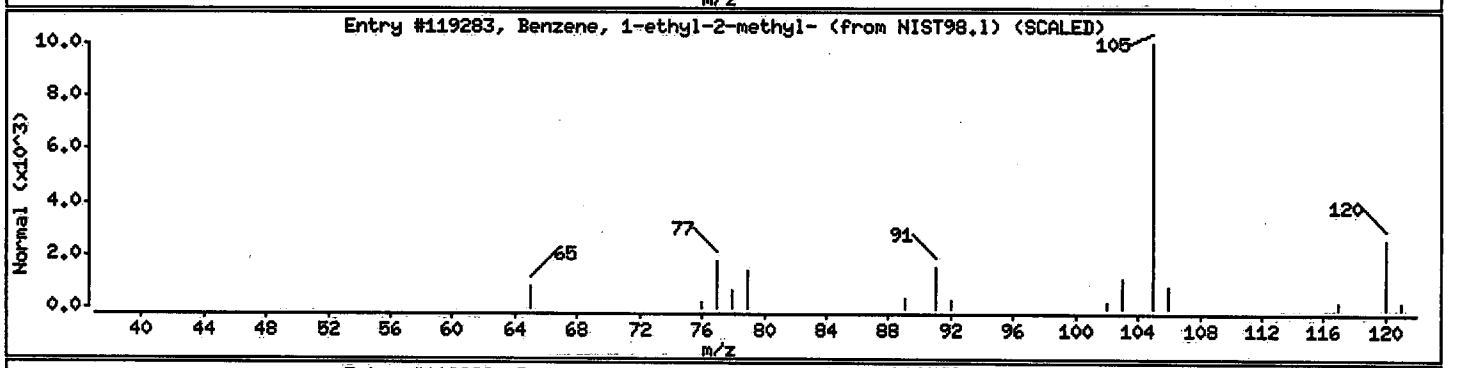
Operator: doe

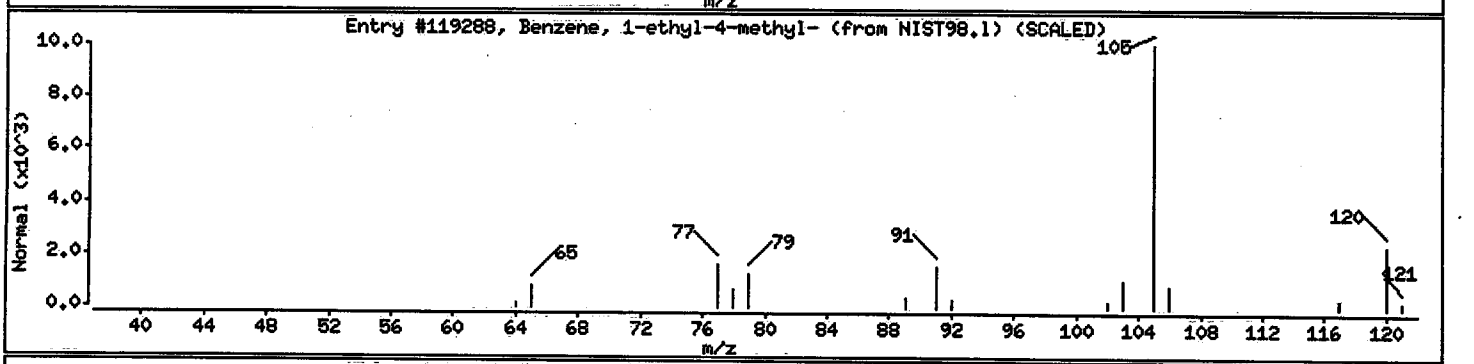
Column phase: ZB-5

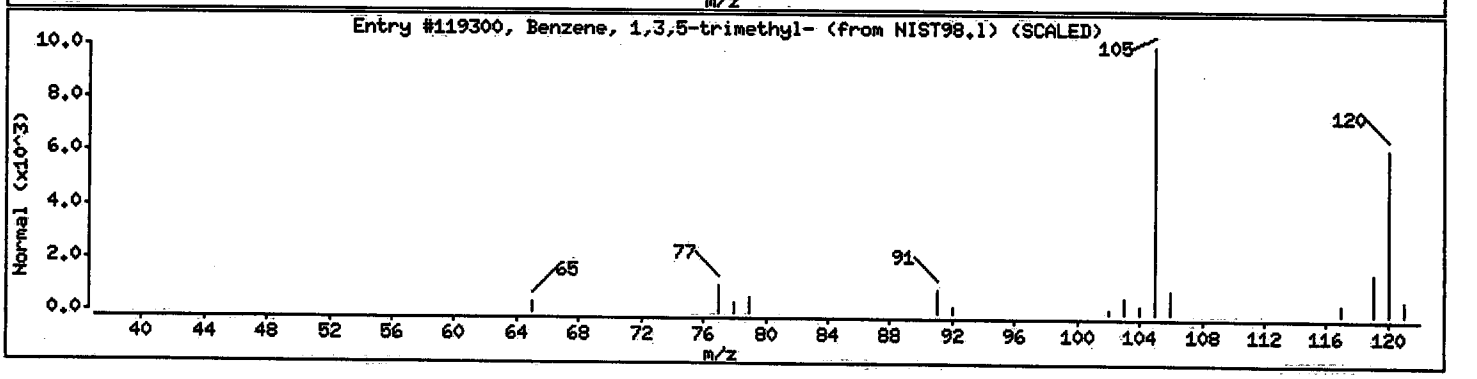
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST98.1	119283	97	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST98.1	119288	97	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.1	119300	94	C9H12	120









Data File: /var/chem/molly.i/0307174mlr.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

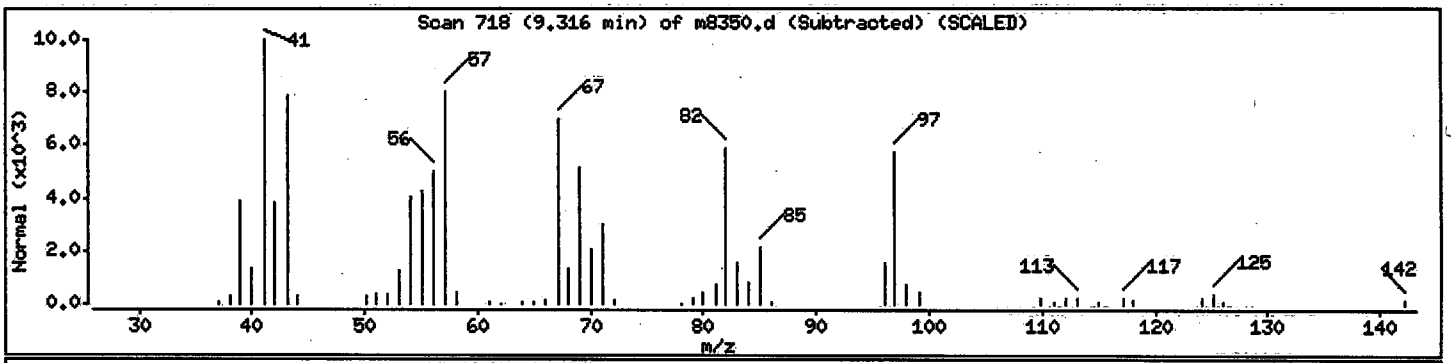
Volume Injected (uL): 2.0

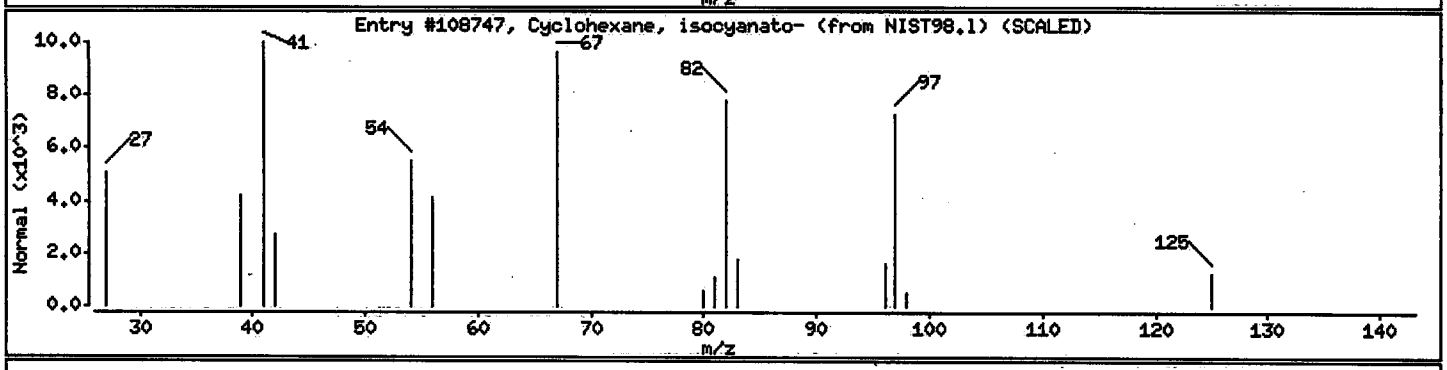
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, isocyanato-	3173-53-3	NIST98.1	108747	52	C7H11NO	125





Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

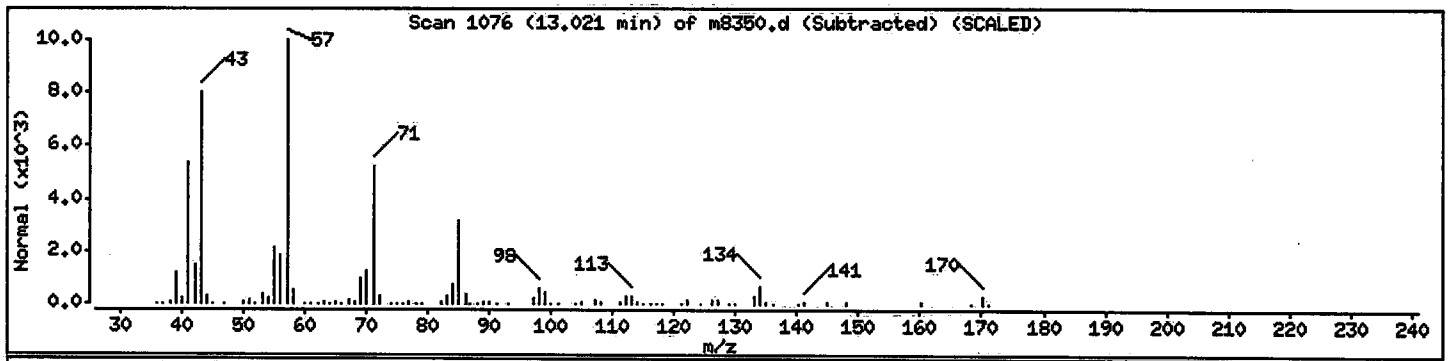
Volume Injected (uL): 2.0

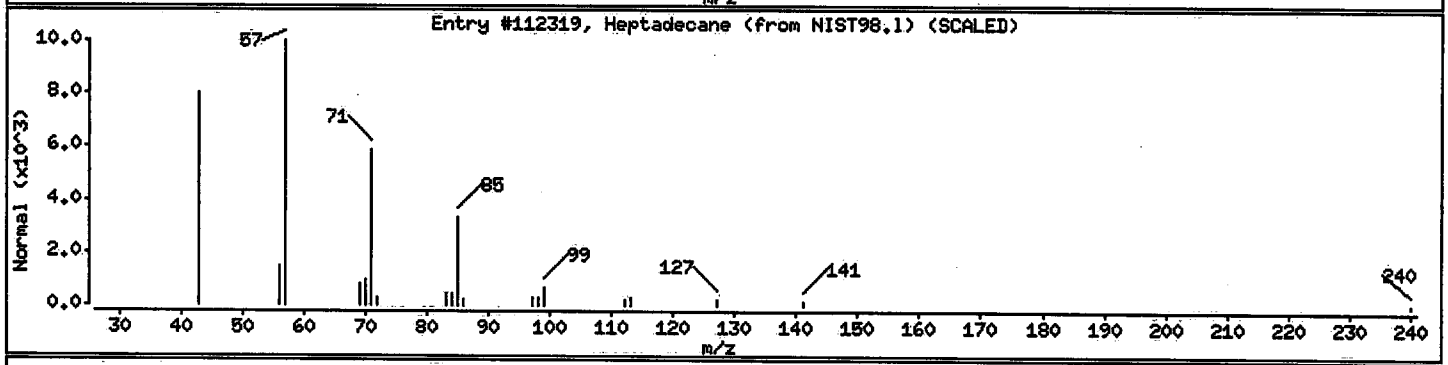
Operator: dce

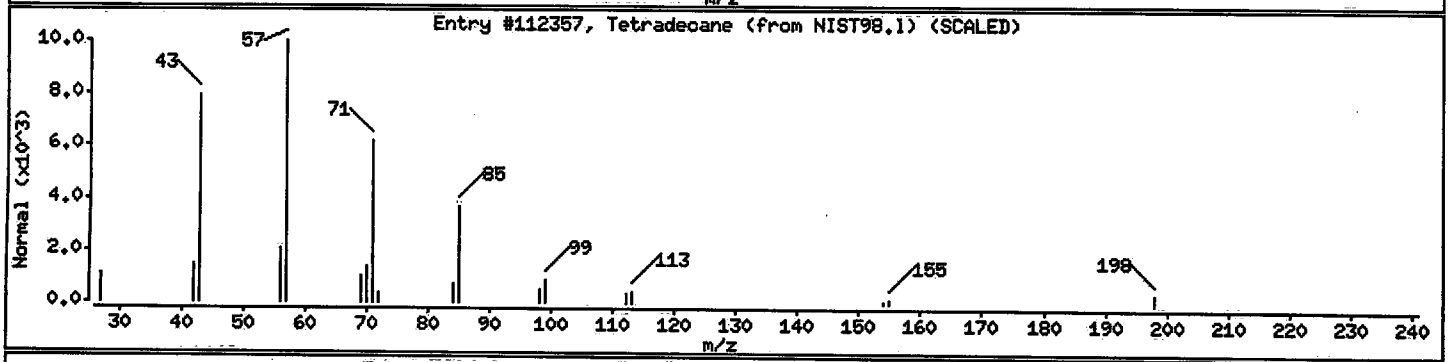
Column phase: ZB-5

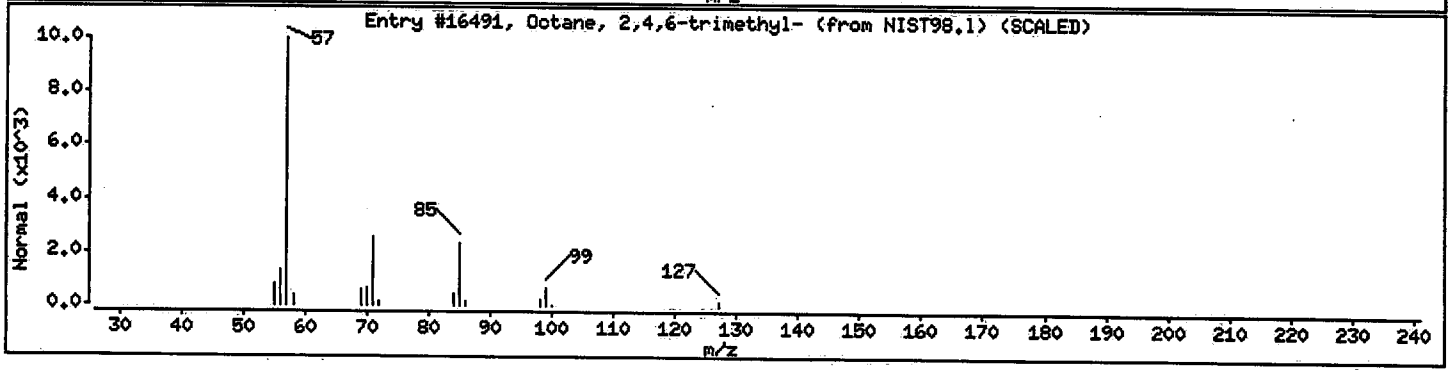
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecane	629-78-7	NIST98.1	112319	86	C17H36	240
Tetradecane	629-59-4	NIST98.1	112357	86	C14H30	198
Octane, 2,4,6-trimethyl-	62016-37-9	NIST98.1	16491	86	C11H24	156









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

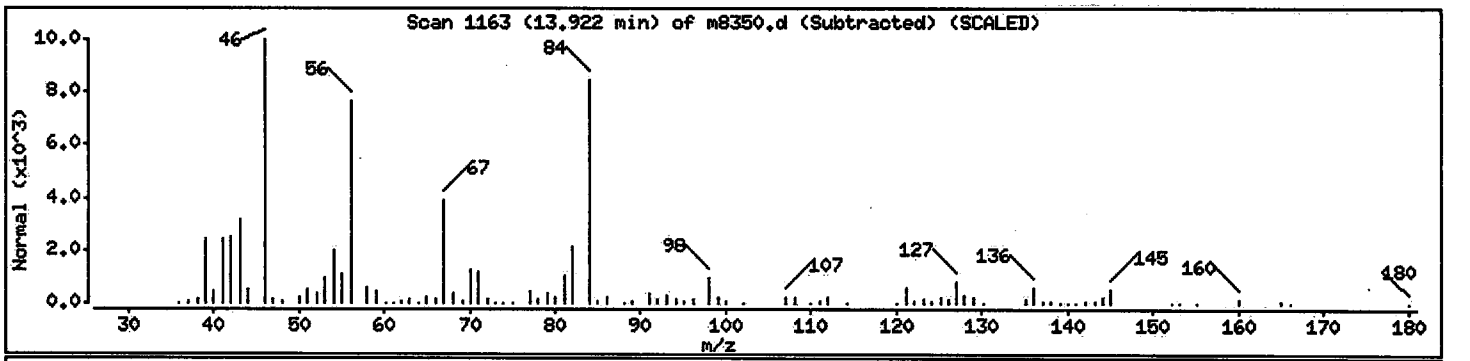
Volume Injected (uL): 2.0

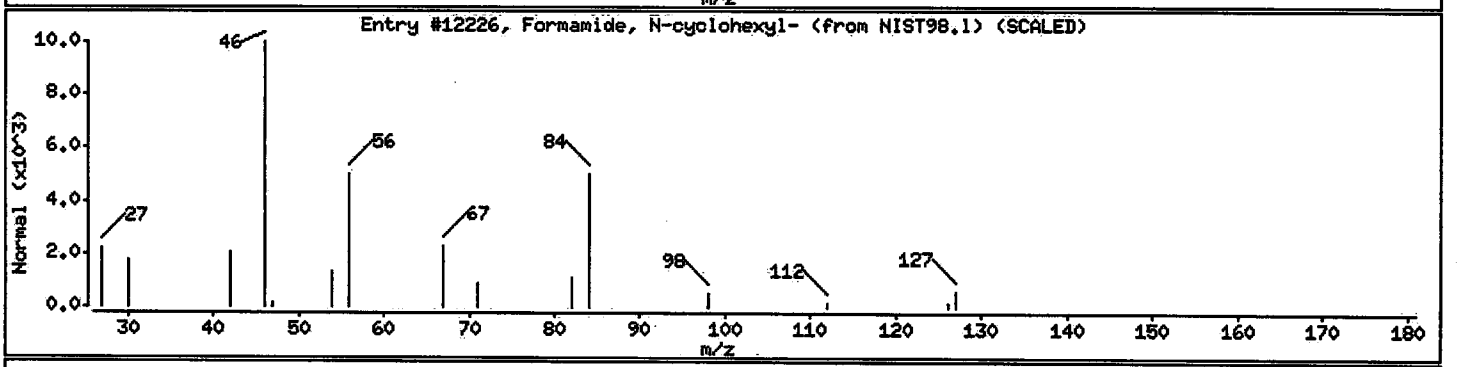
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Formamide, N-cyclohexyl-	766-93-8	NIST98.1	12226	62	C7H13NO	127





Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

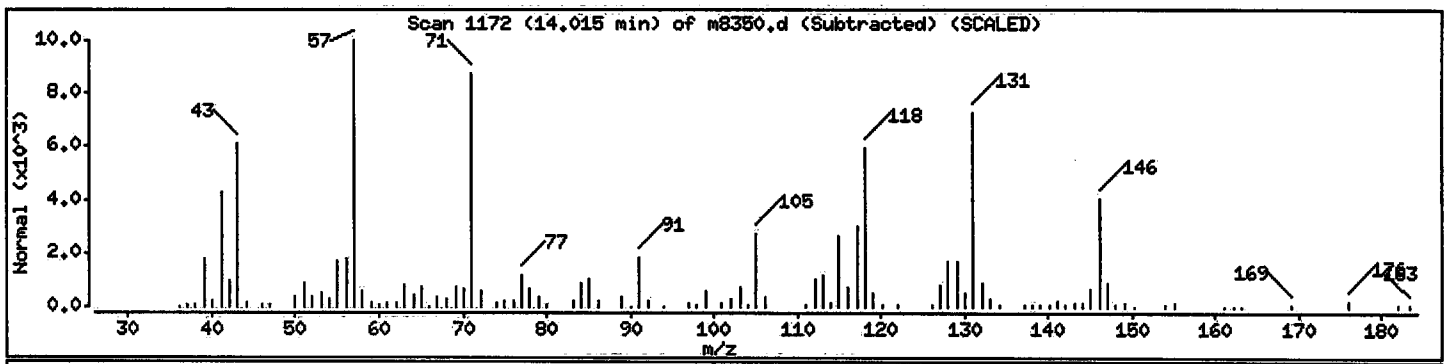
Volume Injected (uL): 2.0

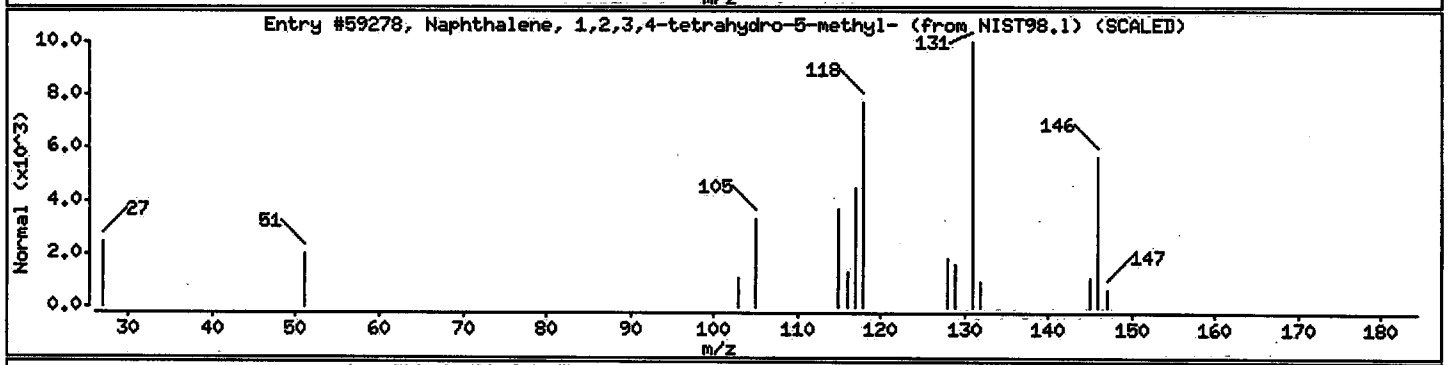
Operator: dce

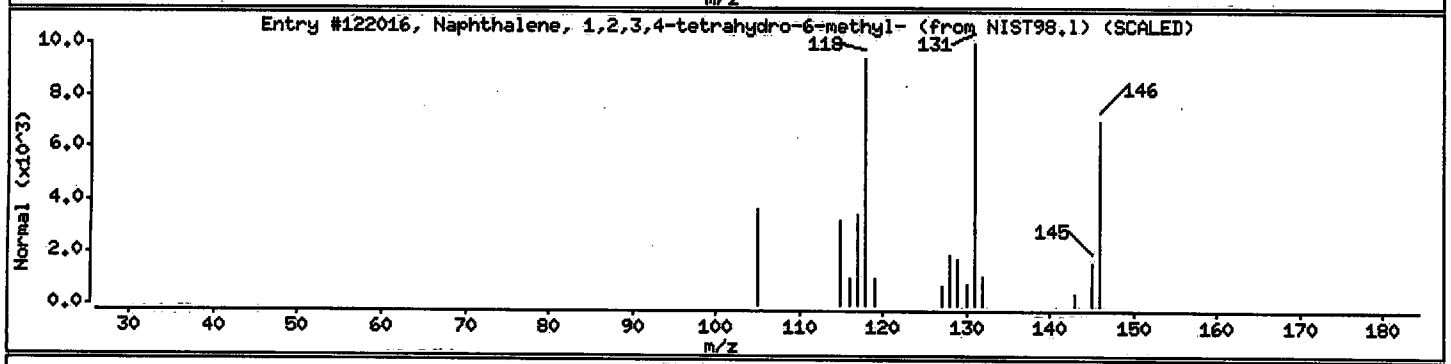
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST98.1	59278	64	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST98.1	122016	58	C11H14	146







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Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

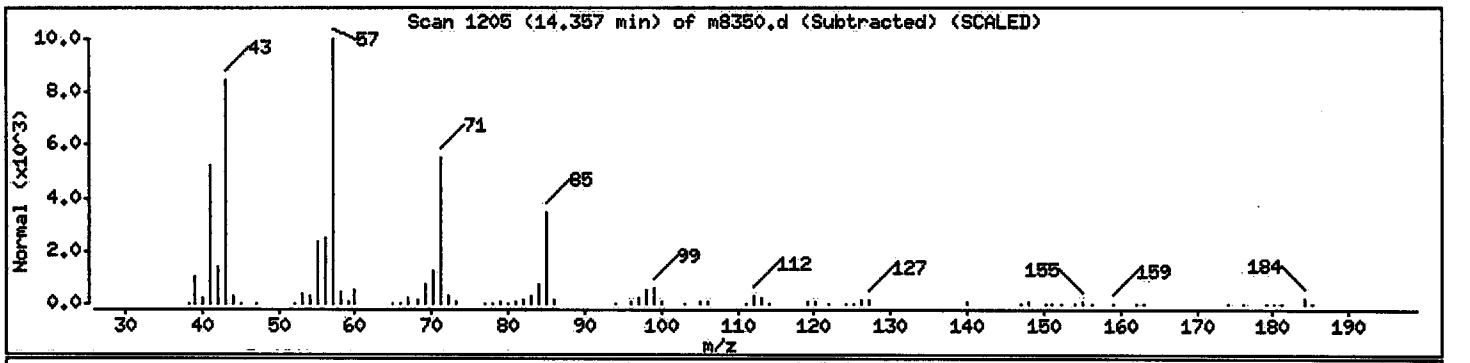
Volume Injected (uL): 2.0

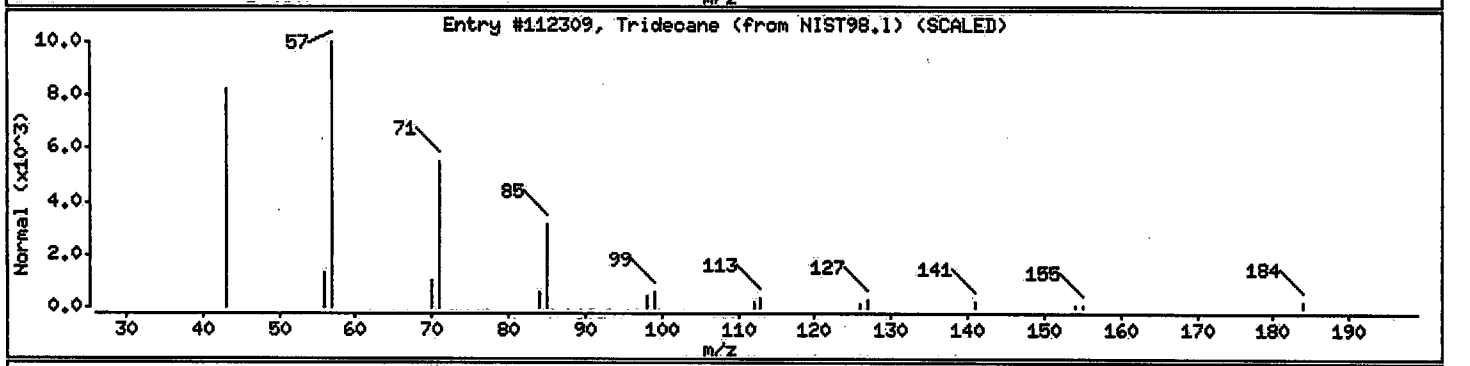
Operator: dce

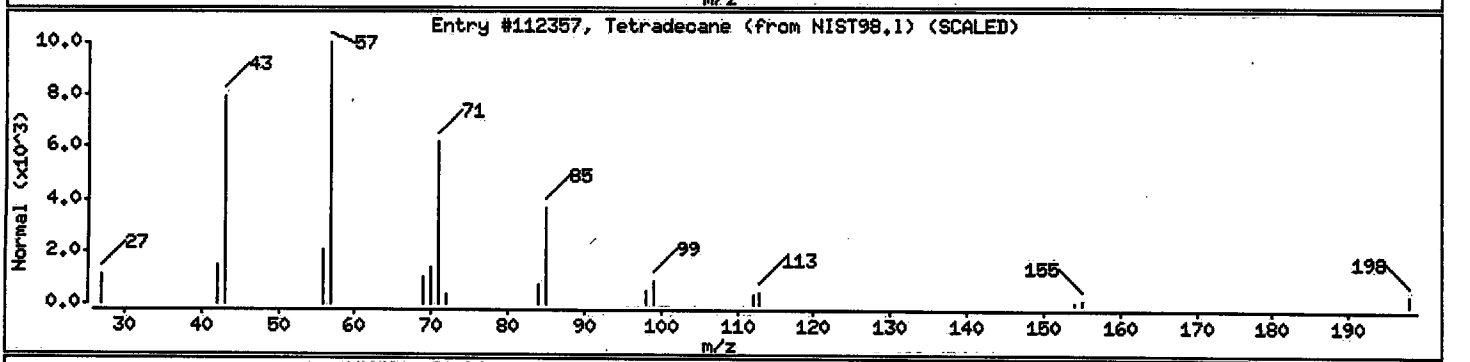
Column phase: ZB-5

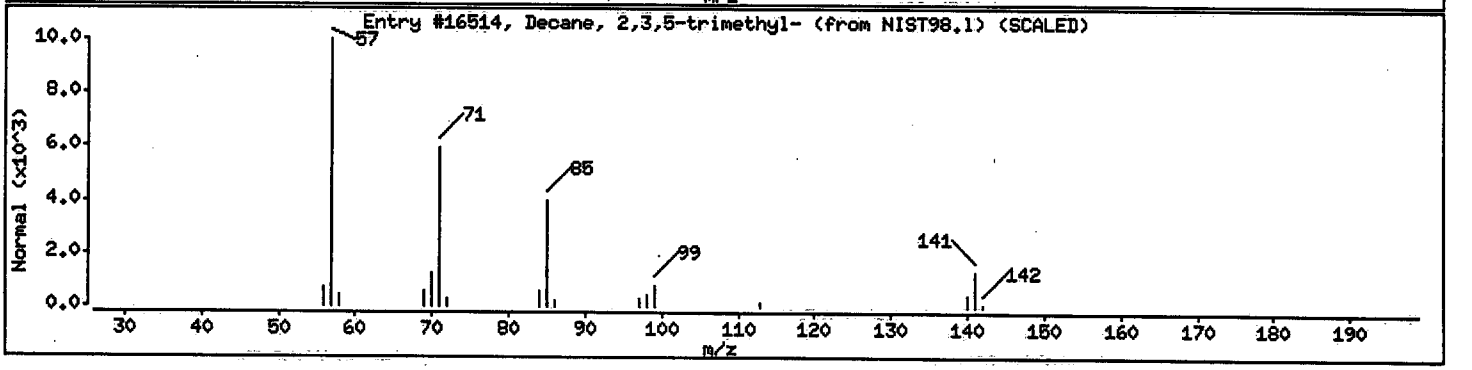
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NIST98.1	112309	87	C13H28	184
Tetradecane	629-59-4	NIST98.1	112357	80	C14H30	198
Decane, 2,3,5-trimethyl-	62238-11-3	NIST98.1	16514	72	C13H28	184









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

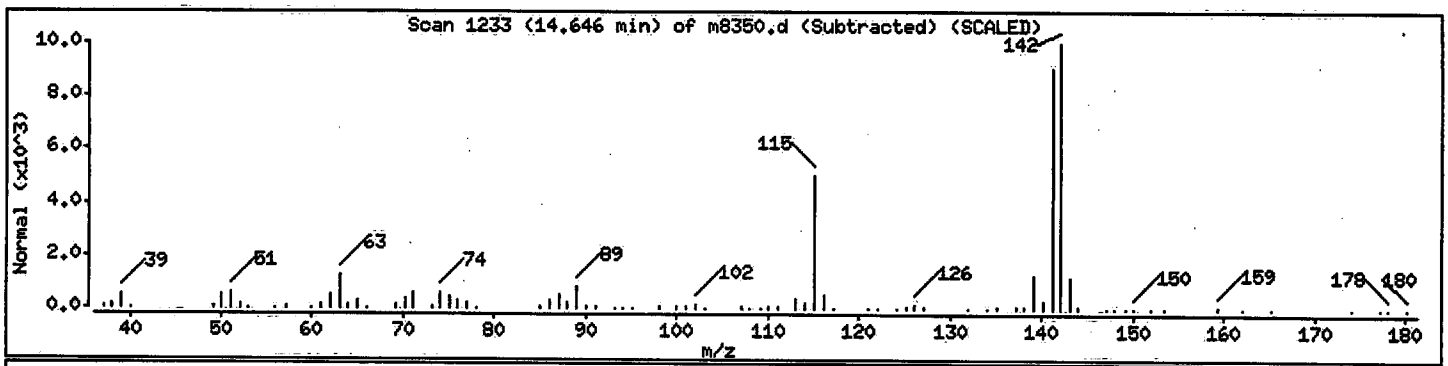
Volume Injected (uL): 2.0

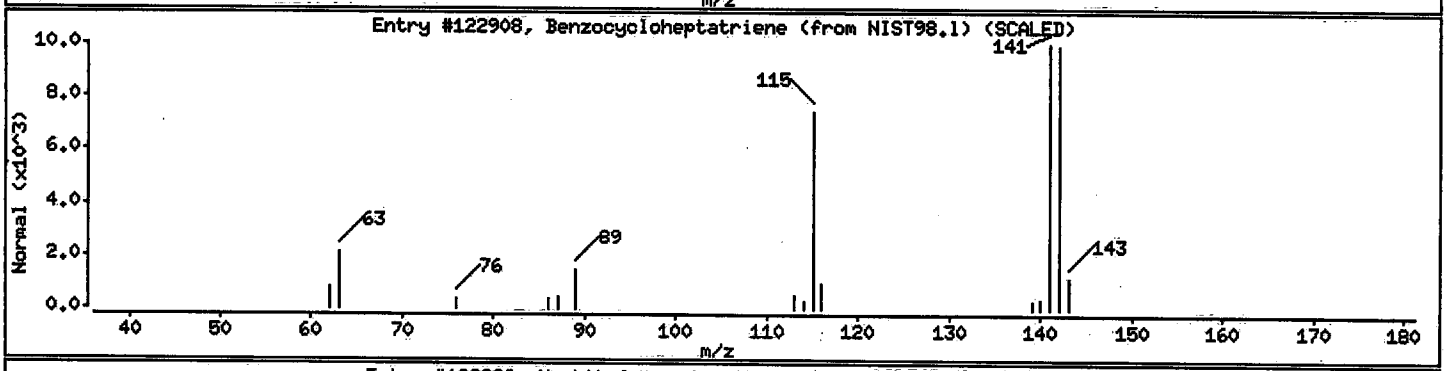
Operator: dce

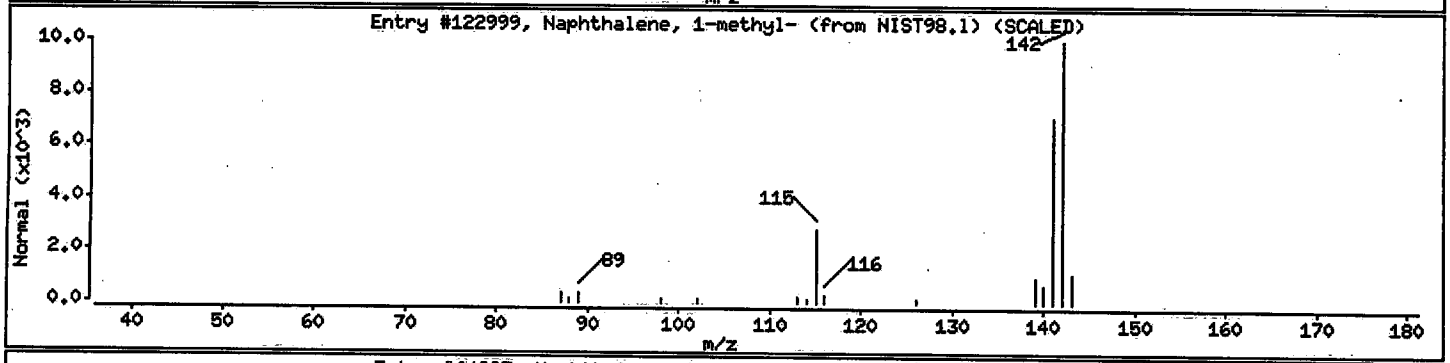
Column phase: ZB-5

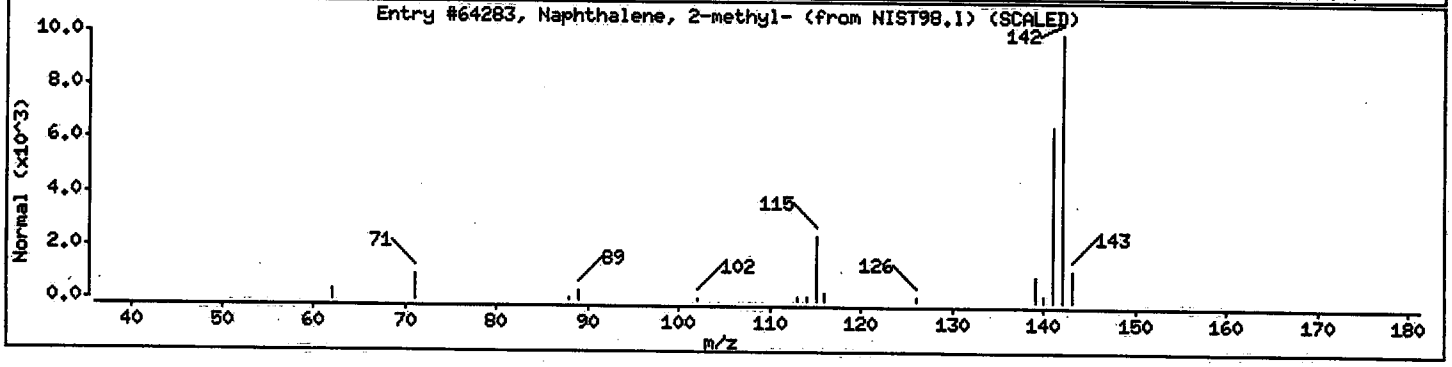
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzocycloheptatriene	264-09-5	NIST98.1	122908	94	C11H10	142
Naphthalene, 1-methyl-	90-12-0	NIST98.1	122999	93	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NIST98.1	64283	91	C11H10	142









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

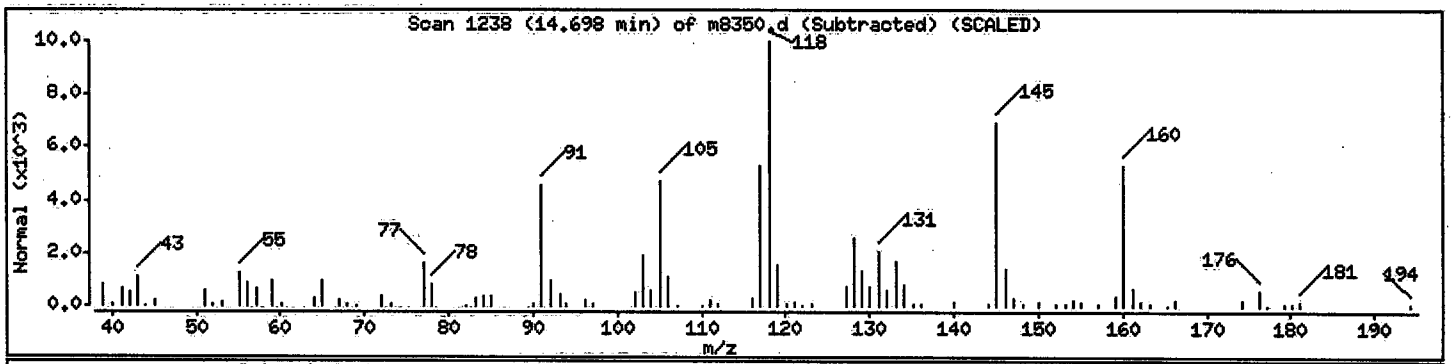
Volume Injected (uL): 2.0

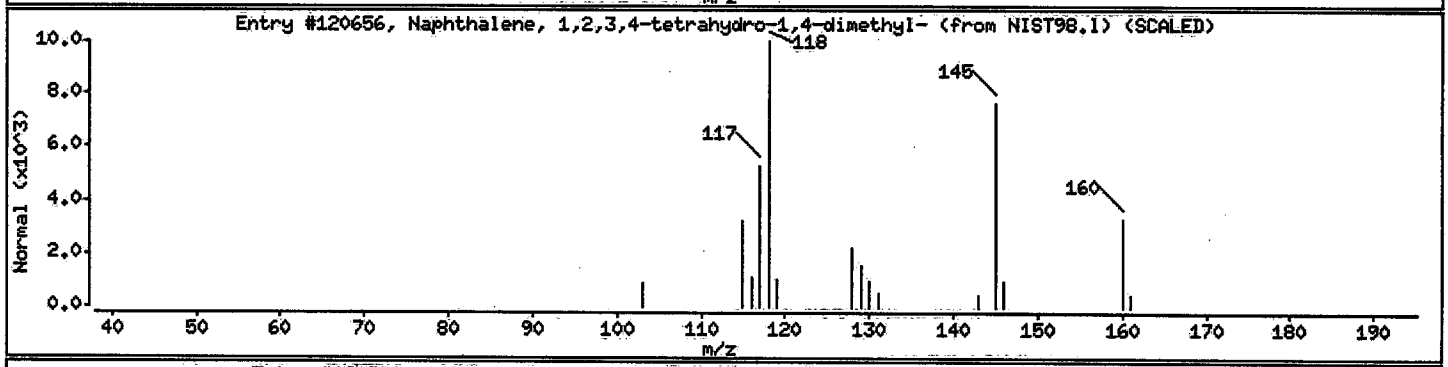
Operator: doe

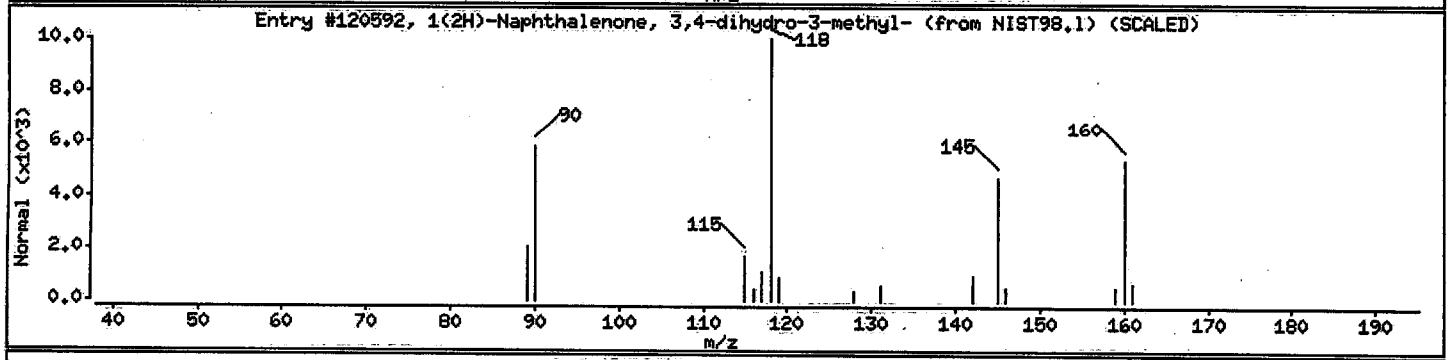
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime	4175-54-6	NIST98.1	120656	87	C12H16	160
1(2H)-Naphthalenone, 3,4-dihydro-3-methy	14944-23-1	NIST98.1	120592	52	C11H12O	160







Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

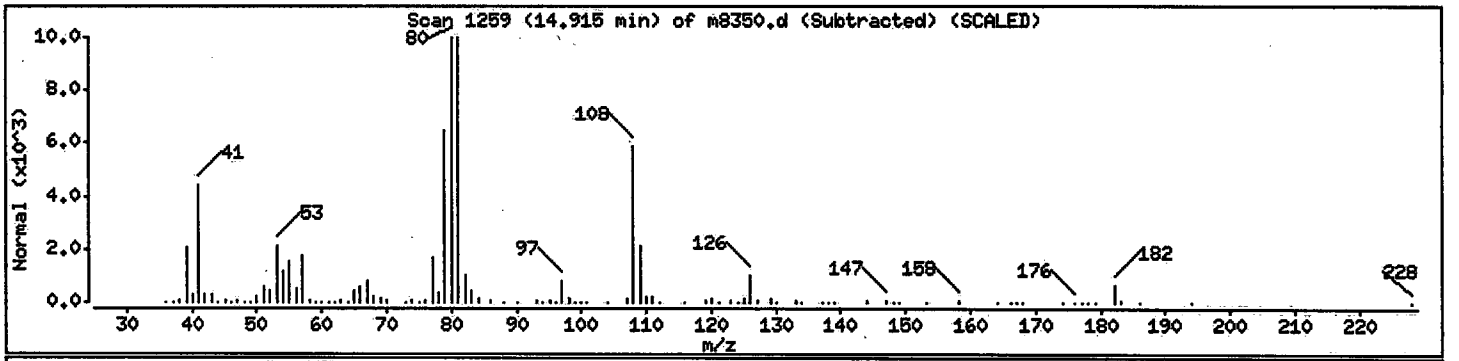
Volume Injected (uL): 2.0

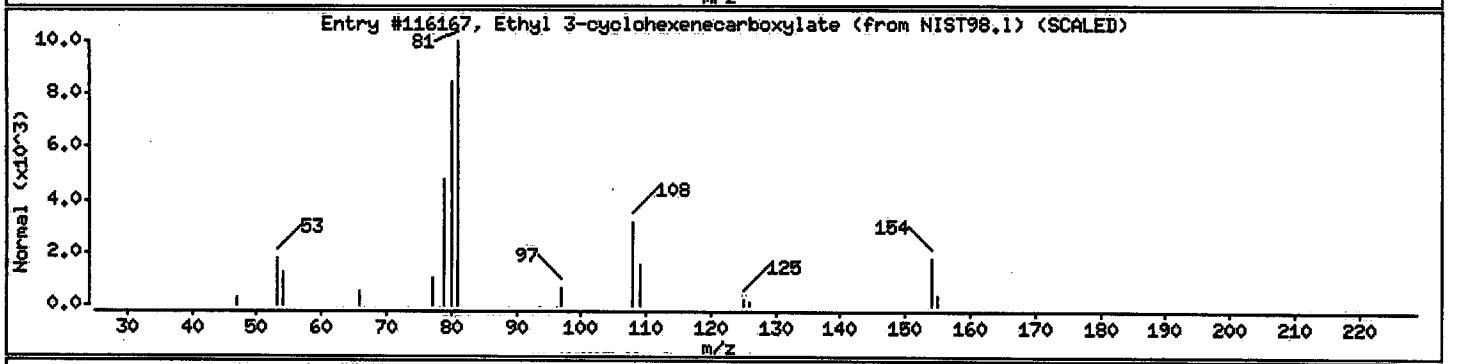
Operator: dce

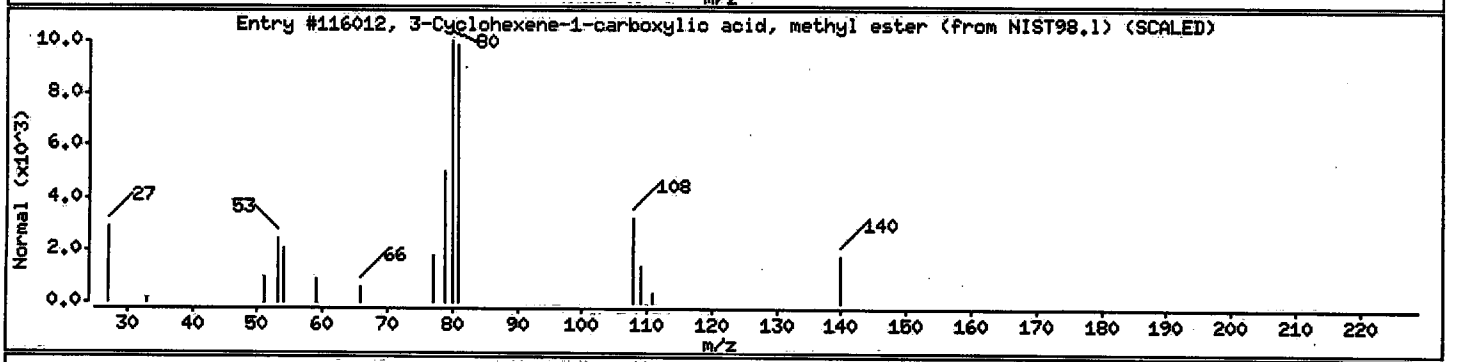
Column phase: ZB-5

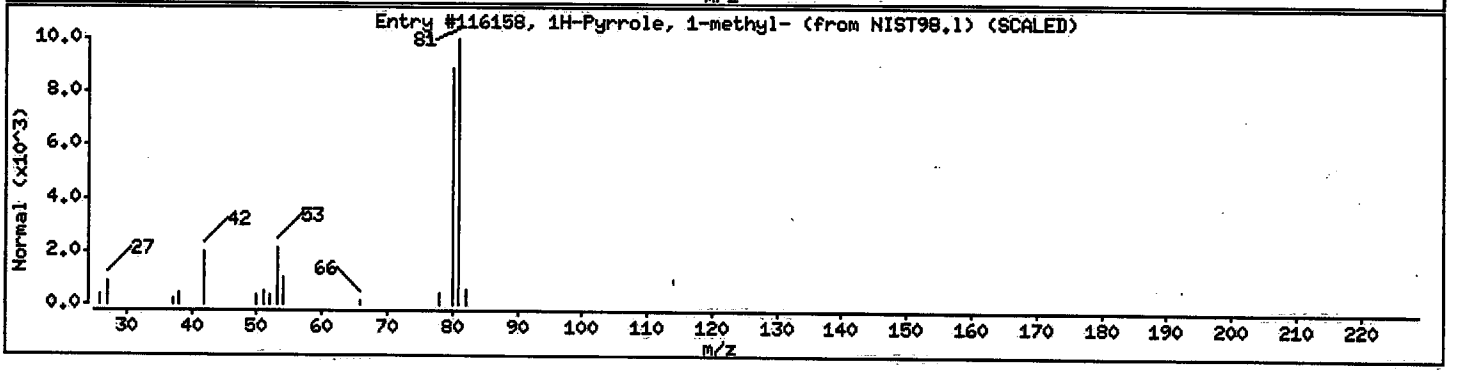
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl 3-cyclohexenecarboxylate	15111-56-5	NIST98.1	116167	78	C9H14O2	154
3-Cyclohexene-1-carboxylic acid, methyl	6493-77-2	NIST98.1	116012	64	C8H12O2	140
1H-Pyrrole, 1-methyl-	96-54-8	NIST98.1	116158	64	C5H7N	81









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

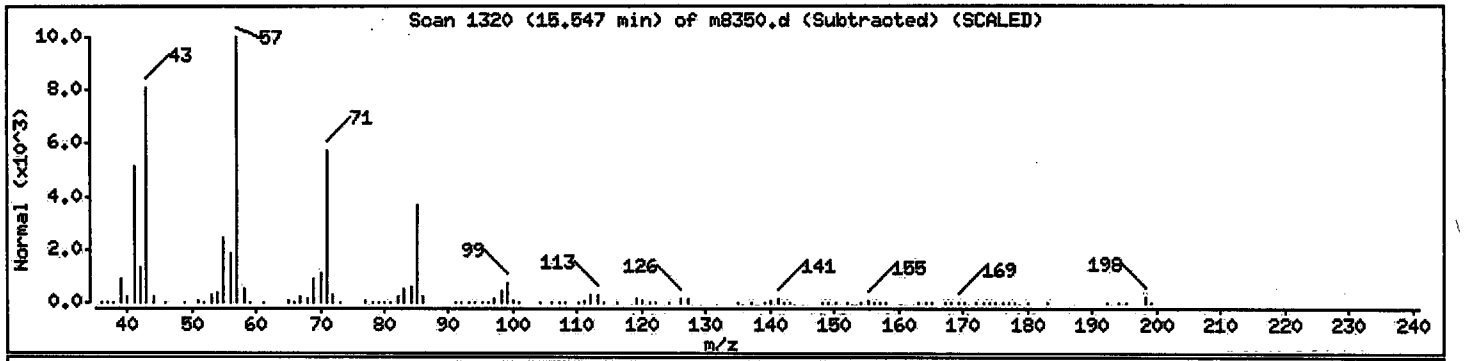
Volume Injected (uL): 2.0

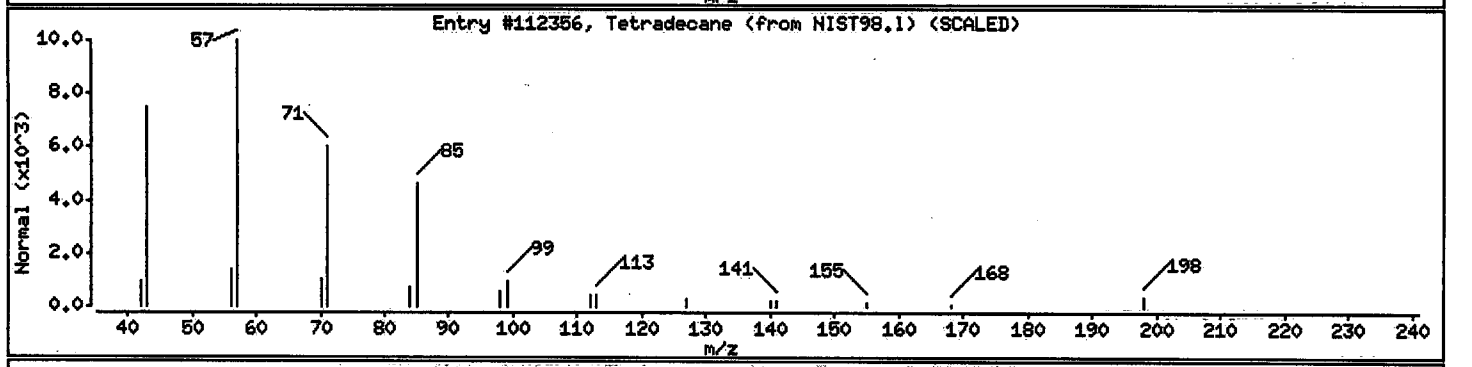
Operator: dce

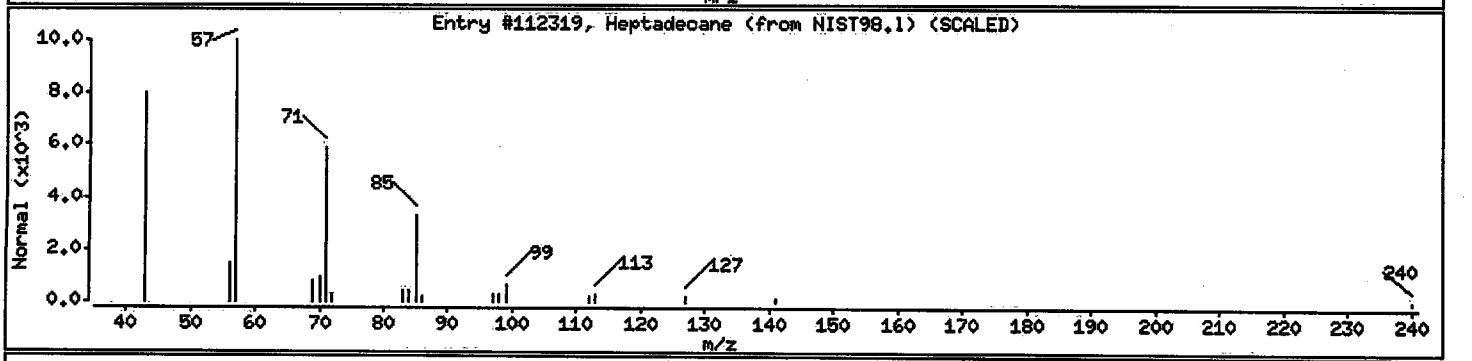
Column phase: ZB-5

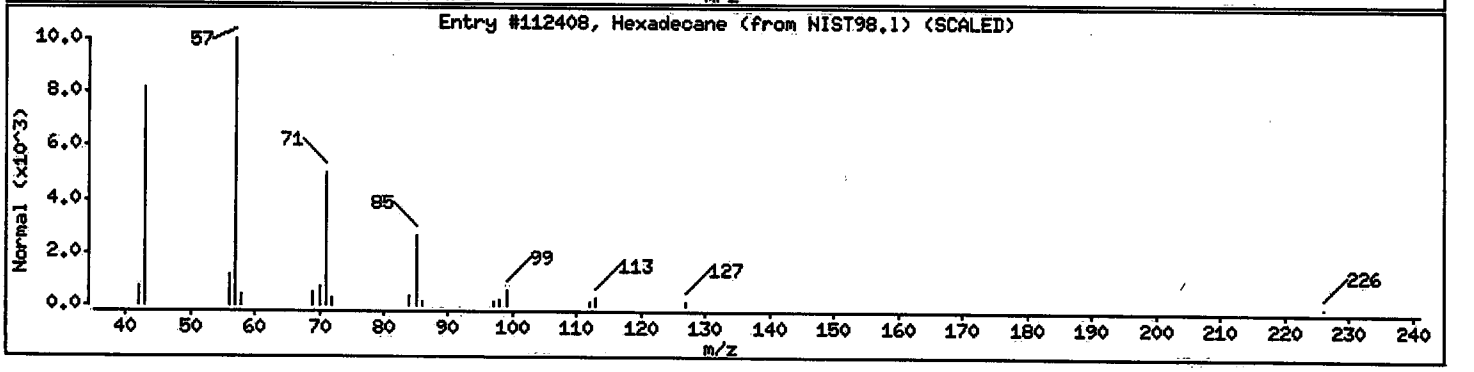
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112356	94	C14H30	198
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Hexadecane	544-76-3	NIST98.1	112408	90	C16H34	226









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

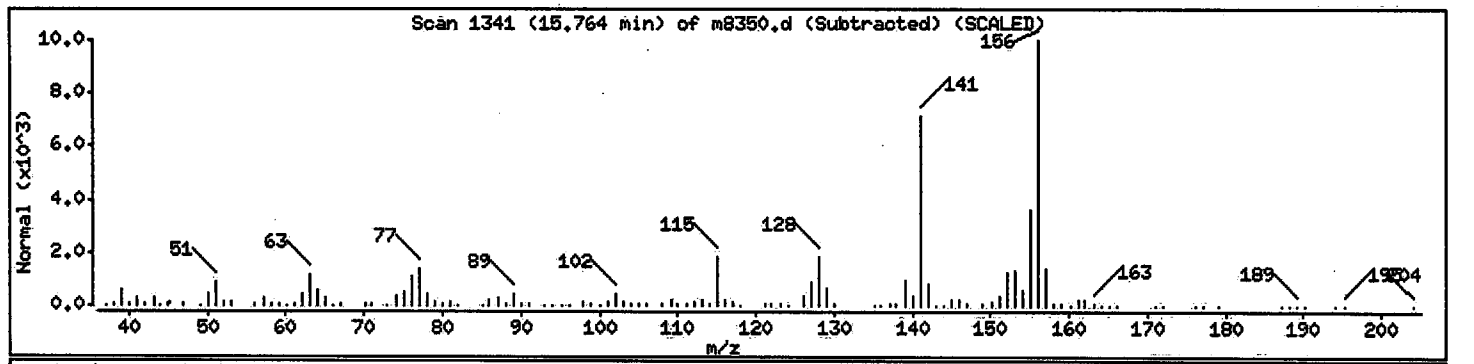
Volume Injected (uL): 2.0

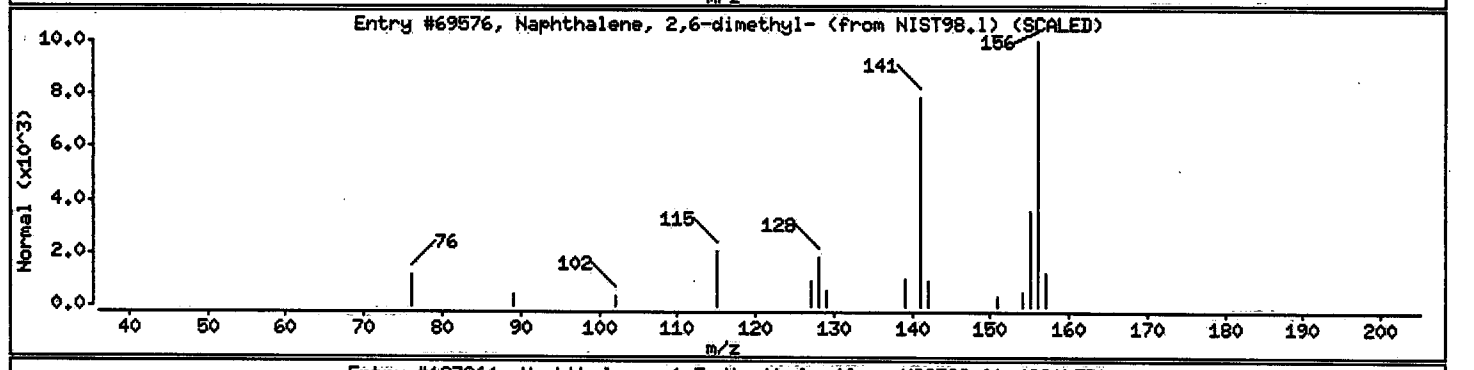
Operator: dce

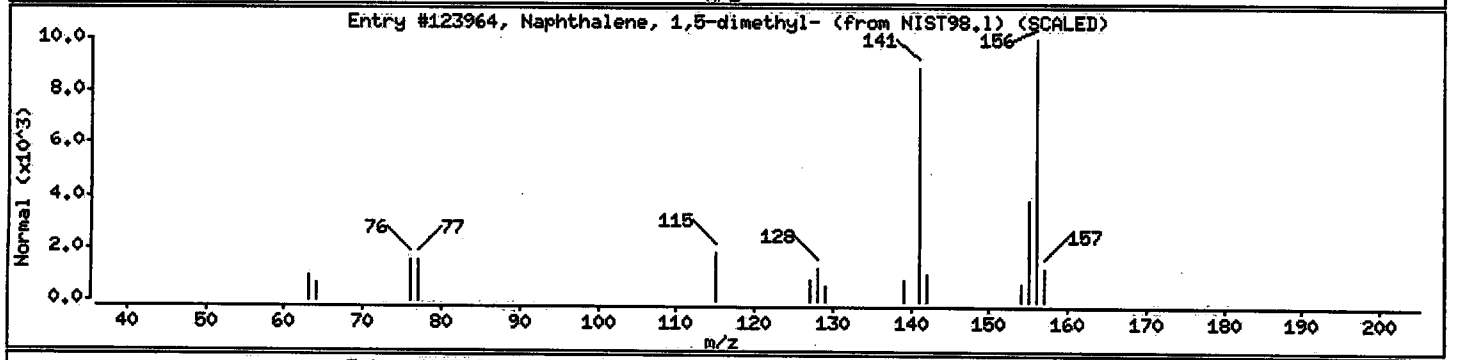
Column phase: ZB-5

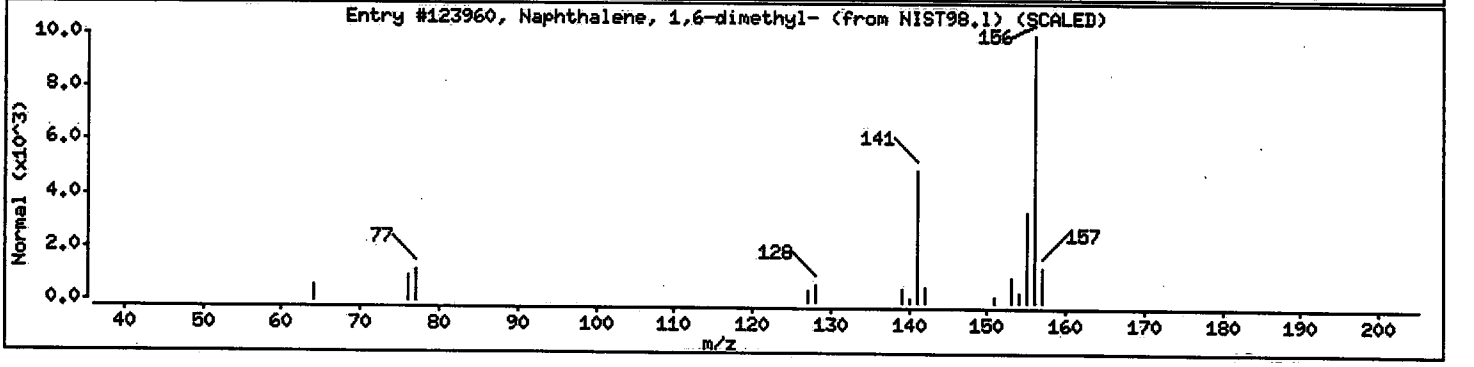
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,6-dimethyl-	581-42-0	NIST98.1	69576	98	C12H12	156
Naphthalene, 1,5-dimethyl-	571-61-9	NIST98.1	123964	98	C12H12	156
Naphthalene, 1,6-dimethyl-	575-43-9	NIST98.1	123960	97	C12H12	156









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

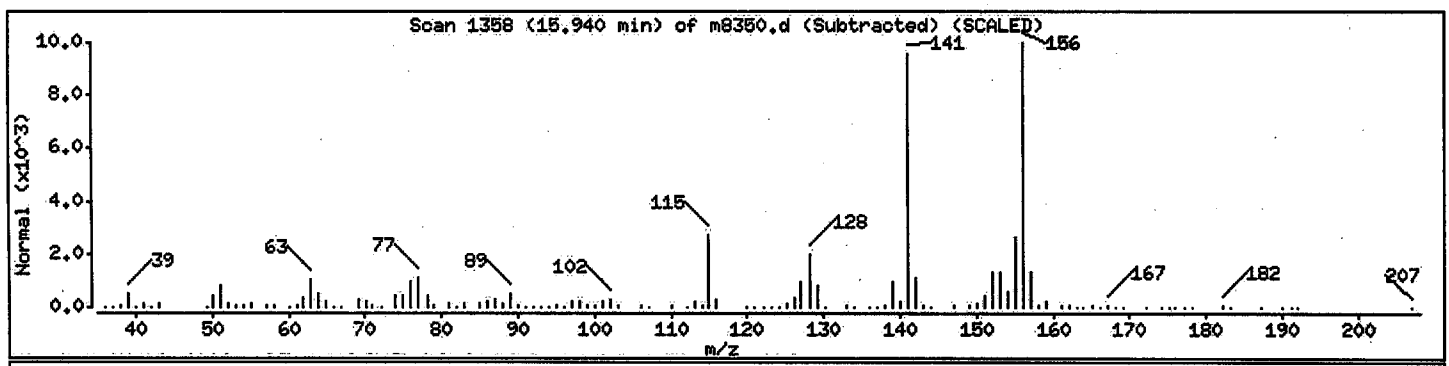
Volume Injected (uL): 2.0

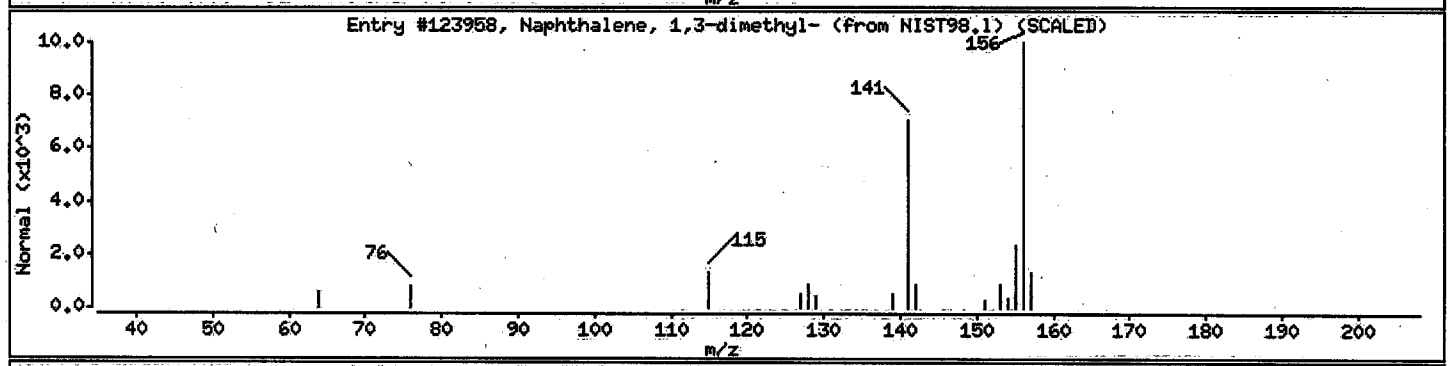
Operator: doe

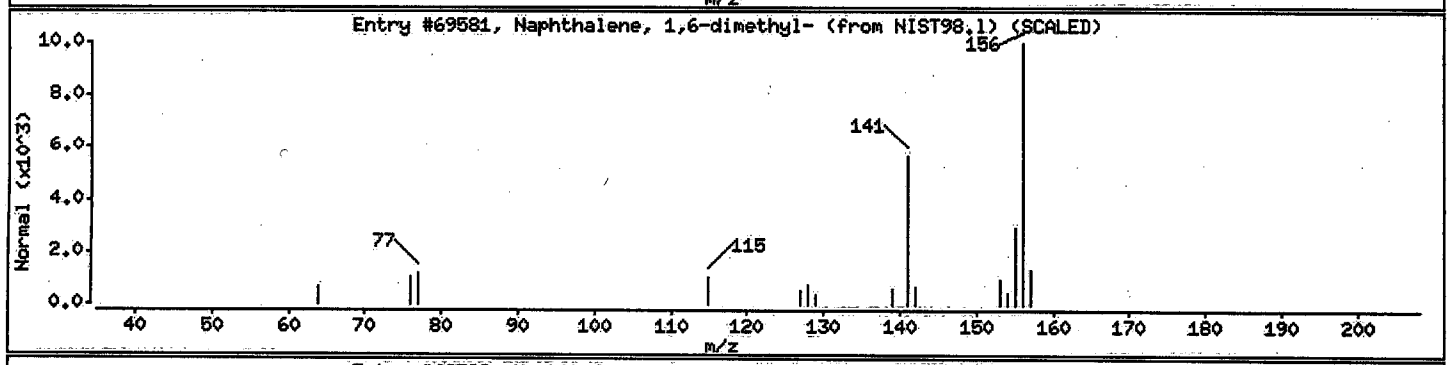
Column phase: ZB-5

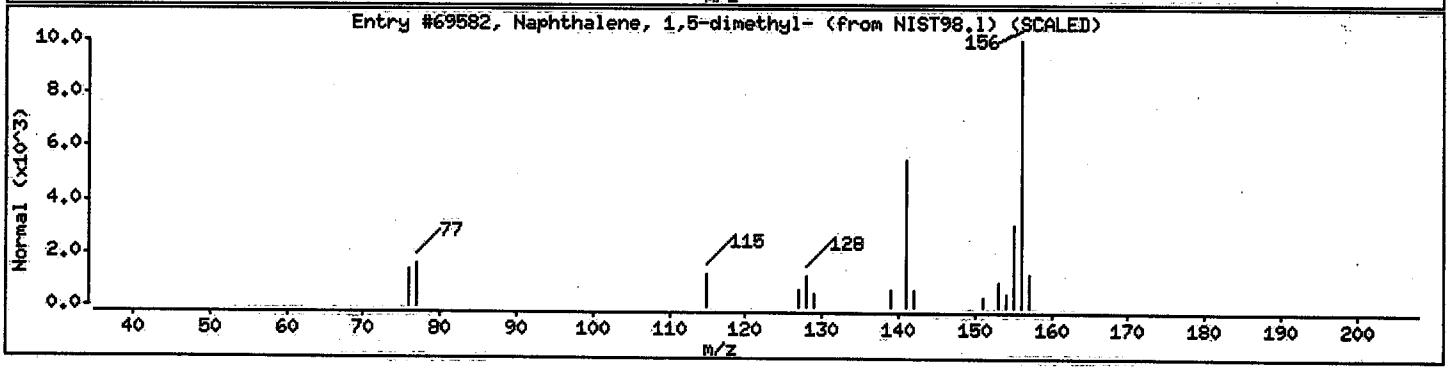
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,3-dimethyl-	575-41-7	NIST98.1	123958	97	C12H12	156
Naphthalene, 1,6-dimethyl-	575-43-9	NIST98.1	69581	97	C12H12	156
Naphthalene, 1,5-dimethyl-	571-61-9	NIST98.1	69582	97	C12H12	156









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

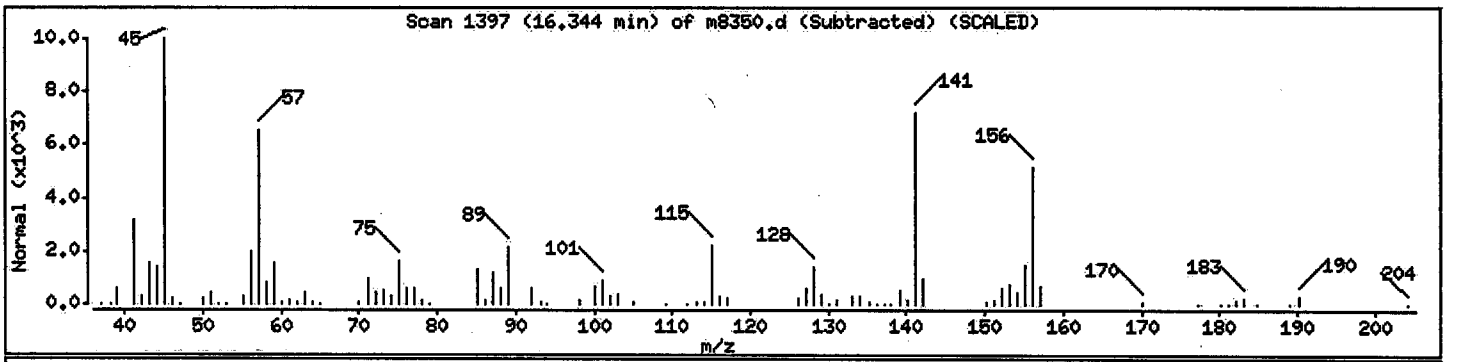
Volume Injected (uL): 2.0

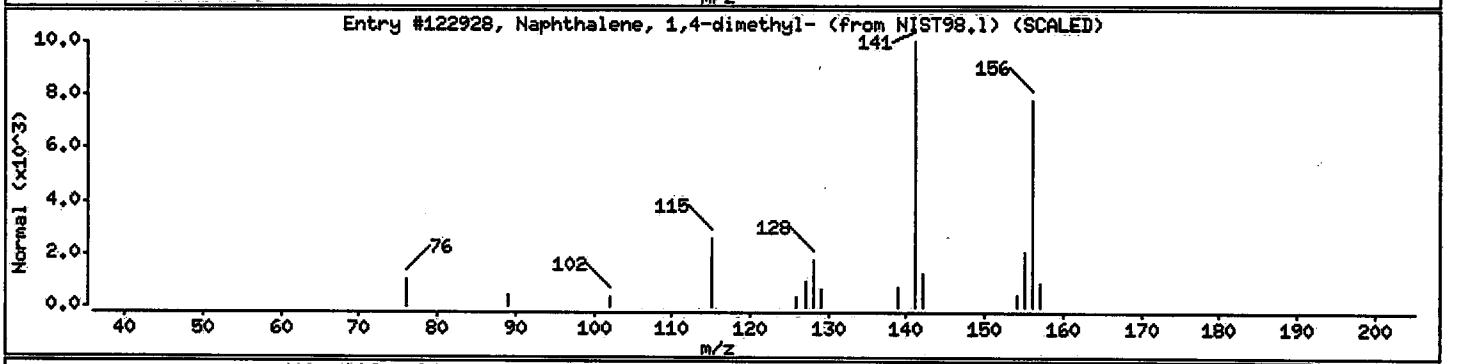
Operator: dce

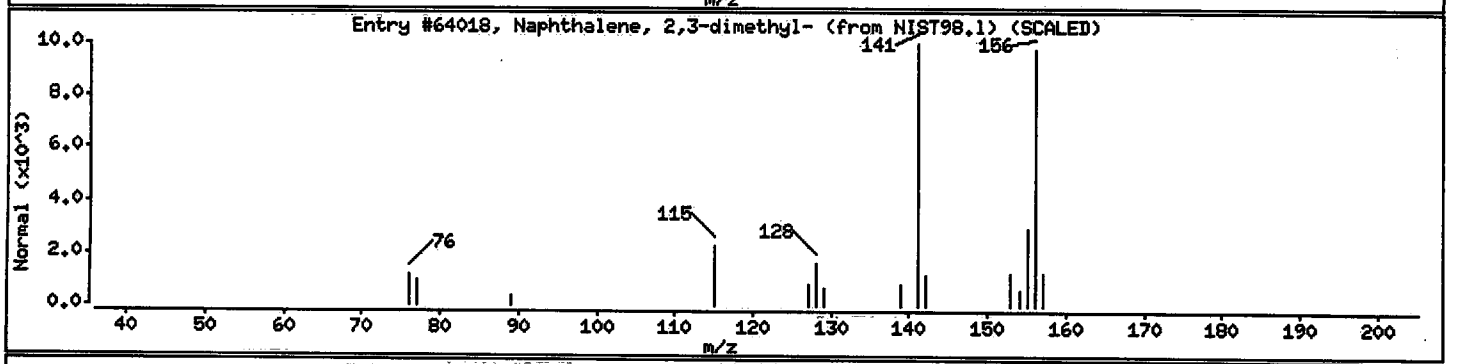
Column phase: ZB-5

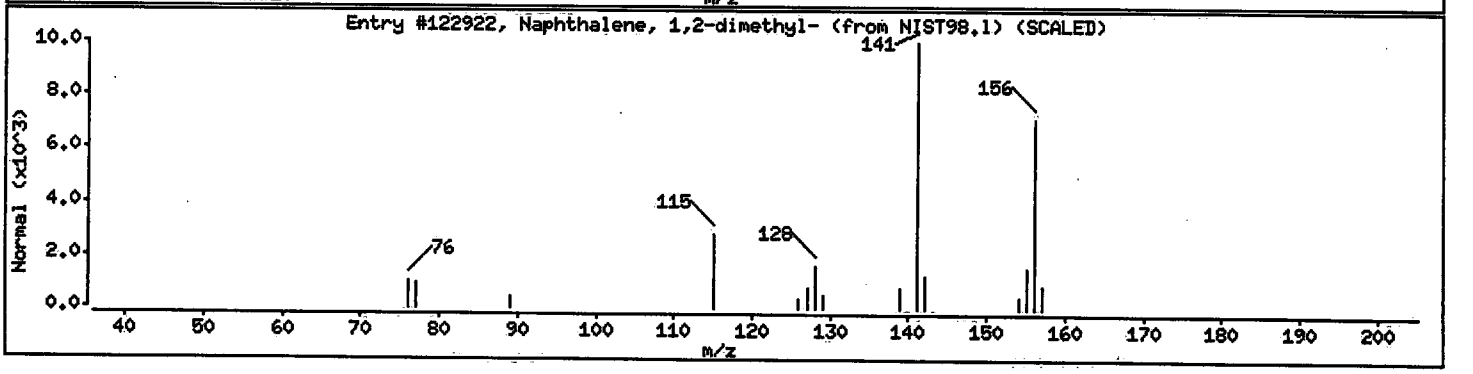
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,4-dimethyl-	571-58-4	NIST98.1	122928	94	C12H12	156
Naphthalene, 2,3-dimethyl-	581-40-8	NIST98.1	64018	94	C12H12	156
Naphthalene, 1,2-dimethyl-	573-98-8	NIST98.1	122922	90	C12H12	156









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

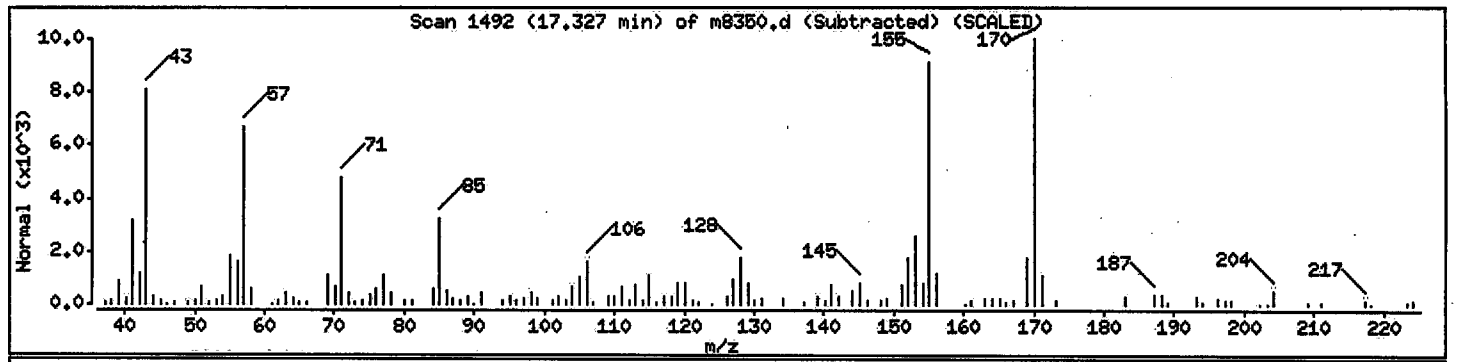
Volume Injected (uL): 2.0

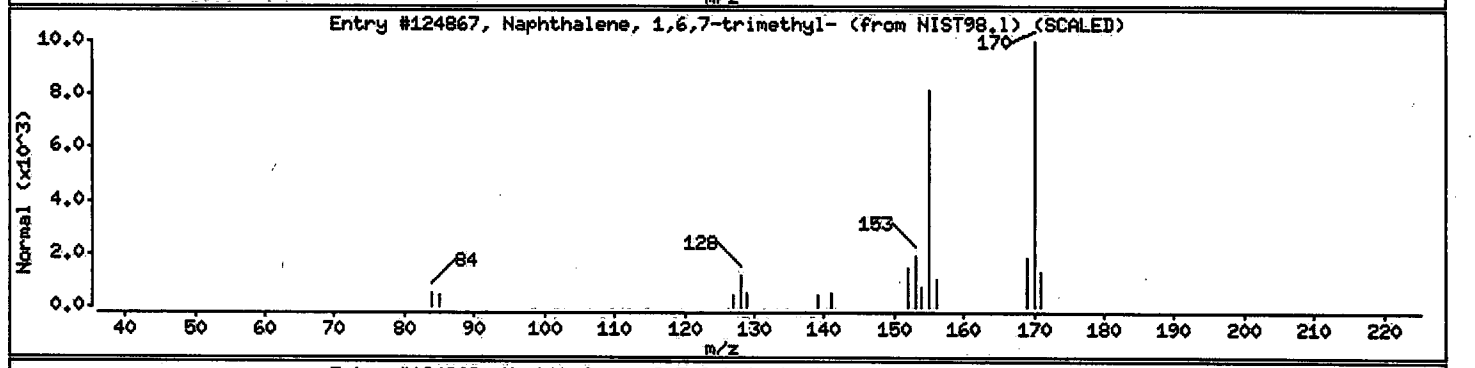
Operator: dce

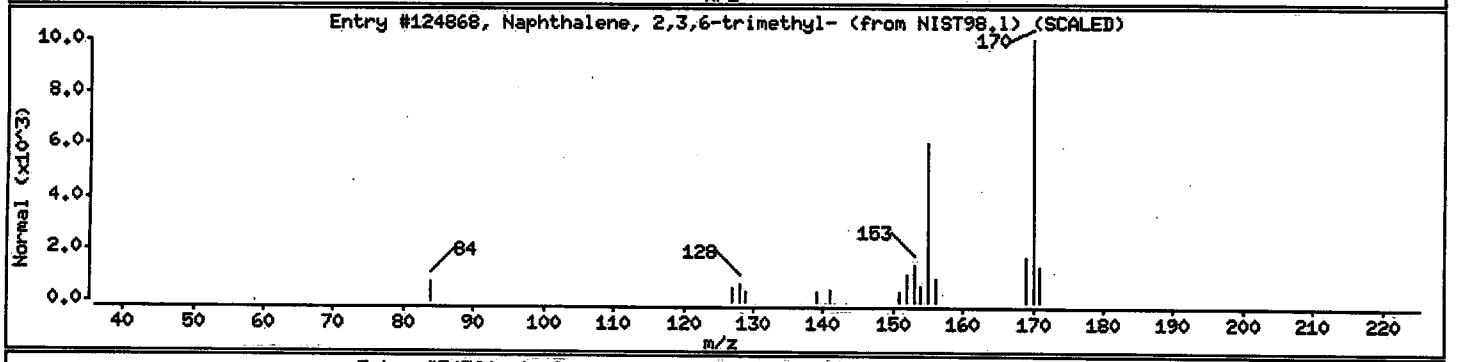
Column phase: ZB-5

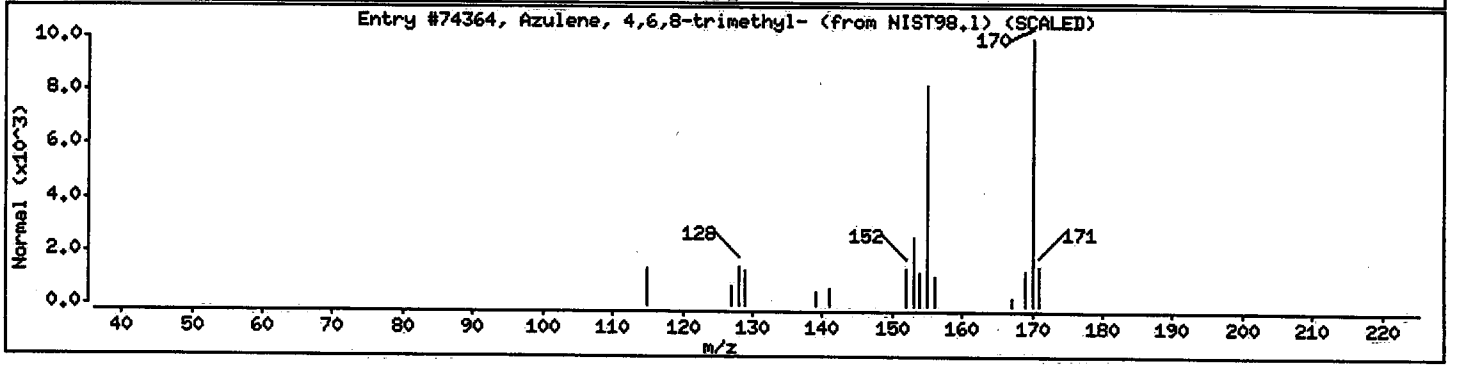
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,6,7-trimethyl-	2245-38-7	NIST98.1	124867	90	C13H14	170
Naphthalene, 2,3,6-trimethyl-	829-26-5	NIST98.1	124868	89	C13H14	170
Azulene, 4,6,8-trimethyl-	941-81-1	NIST98.1	74364	70	C13H14	170









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

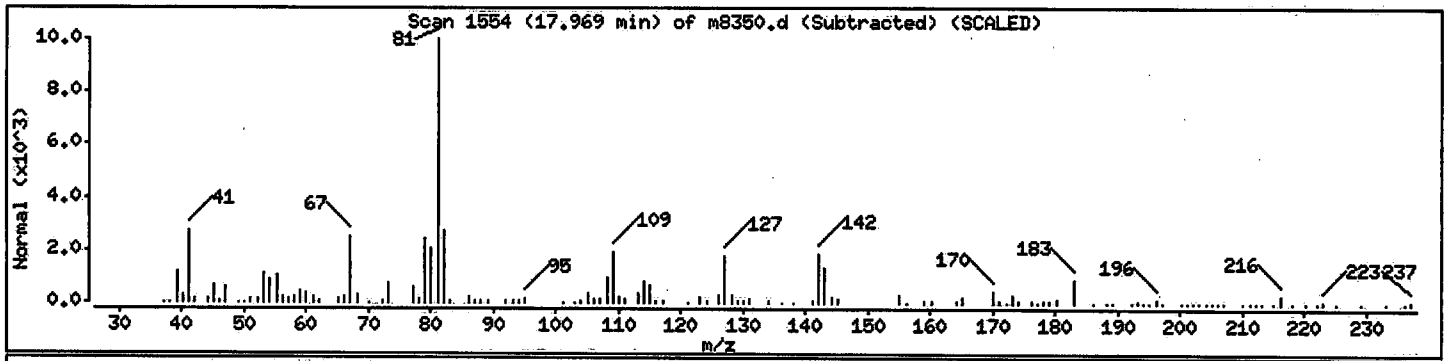
Volume Injected (uL): 2.0

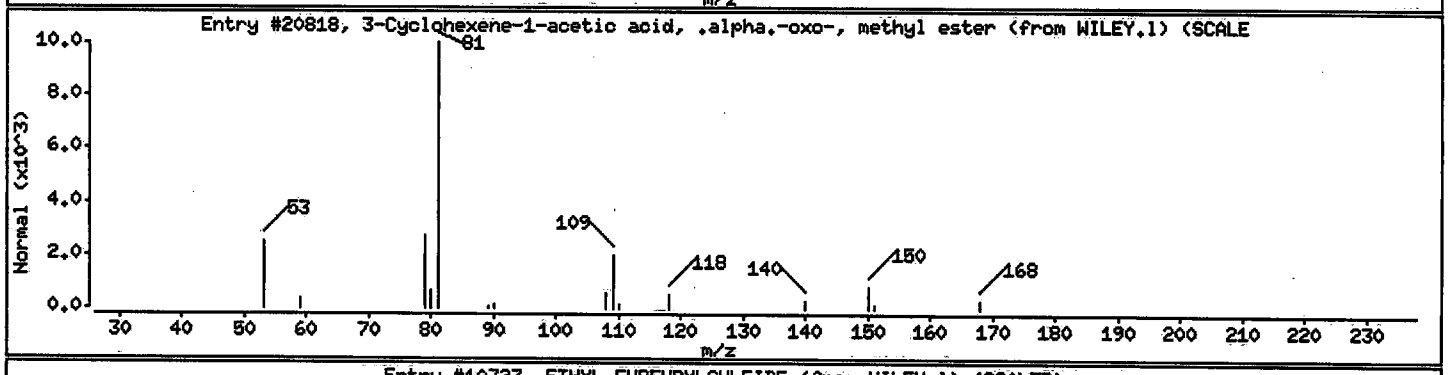
Operator: dce

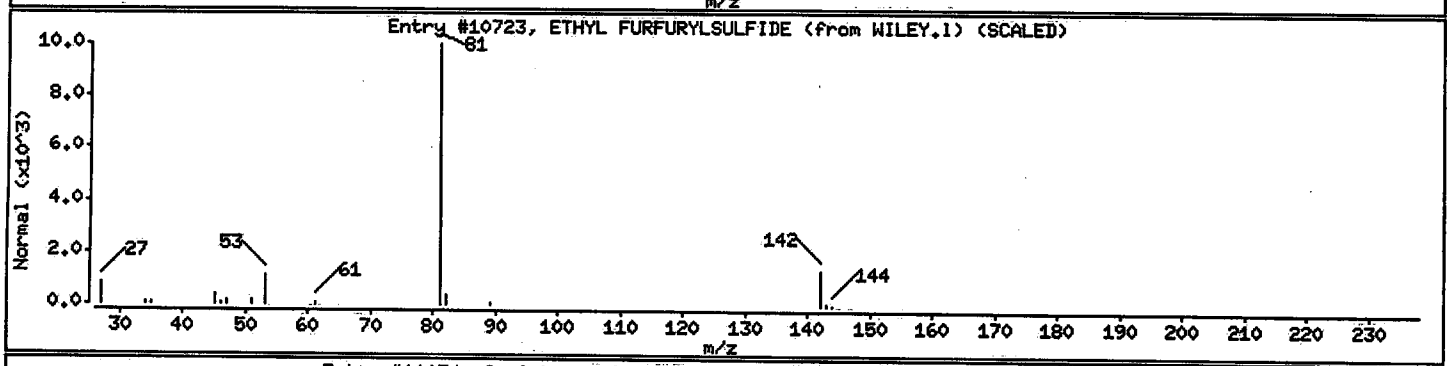
Column phase: ZB-5

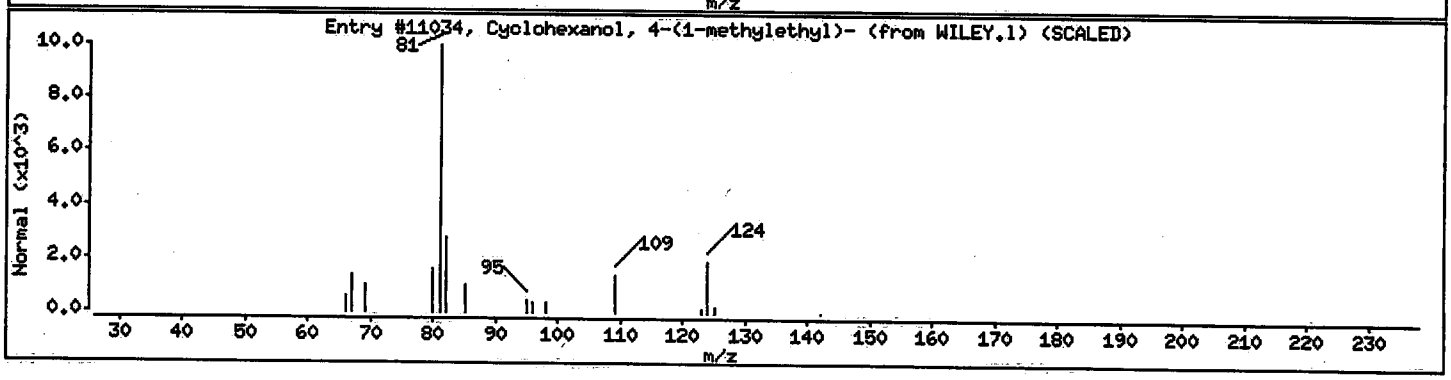
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Cyclohexene-1-acetic acid, .alpha.-oxo	77846-83-4	WILEY.1	20818	47	C9H12O3	168
ETHYL FURFURYLSULFIDE	0-00-0	WILEY.1	10723	38	C7H10OS	142
Cyclohexanol, 4-(1-methylethyl)-	4621-04-9	WILEY.1	11034	33	C9H18O	142









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

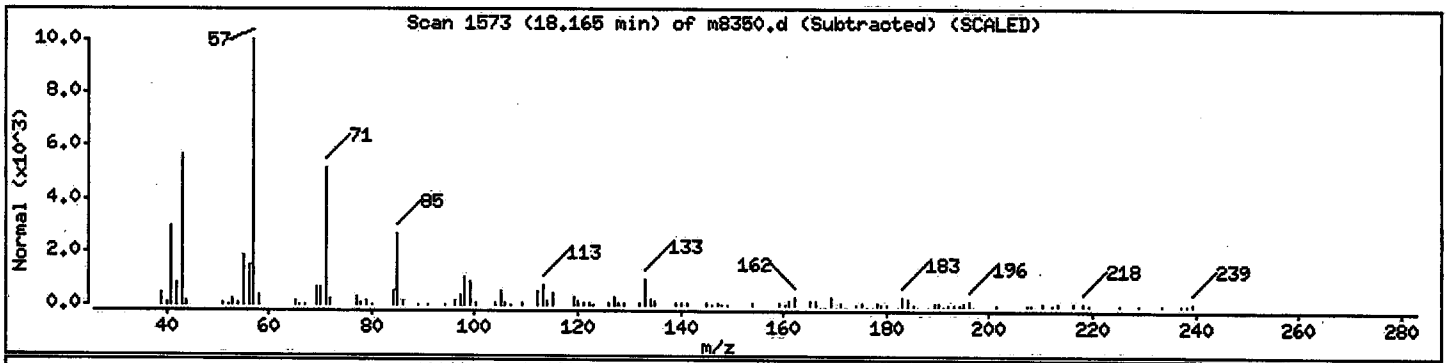
Volume Injected (uL): 2.0

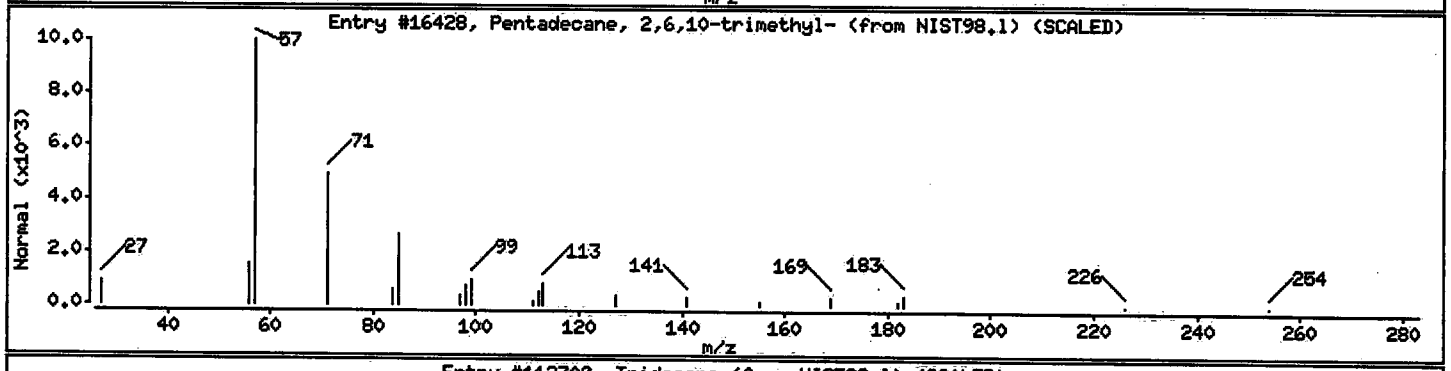
Operator: dce

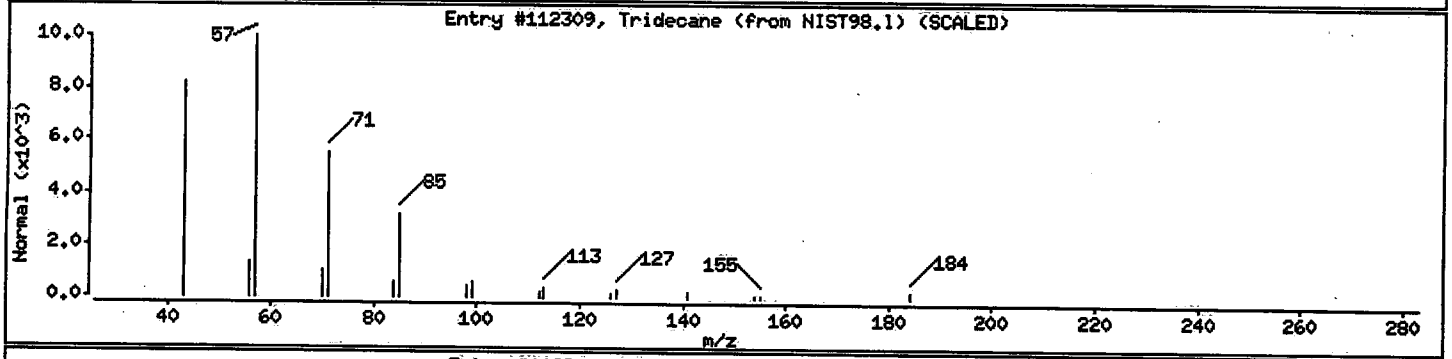
Column phase: ZB-5

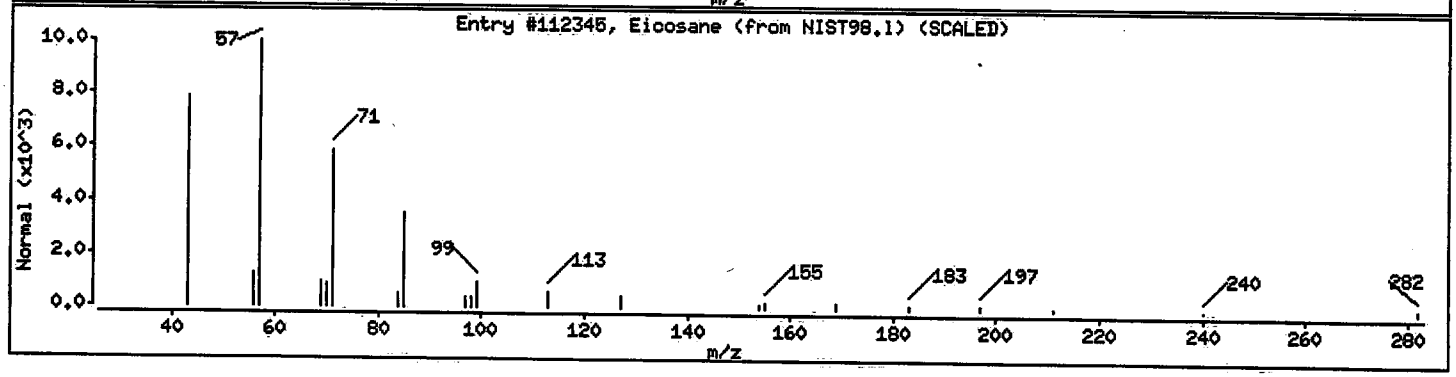
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentadecane, 2,6,10-trimethyl-	3892-00-0	NIST98.1	16428	80	C18H38	254
Tridecane	629-50-5	NIST98.1	112309	68	C13H28	184
Eicosane	112-95-8	NIST98.1	112345	64	C20H42	282









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

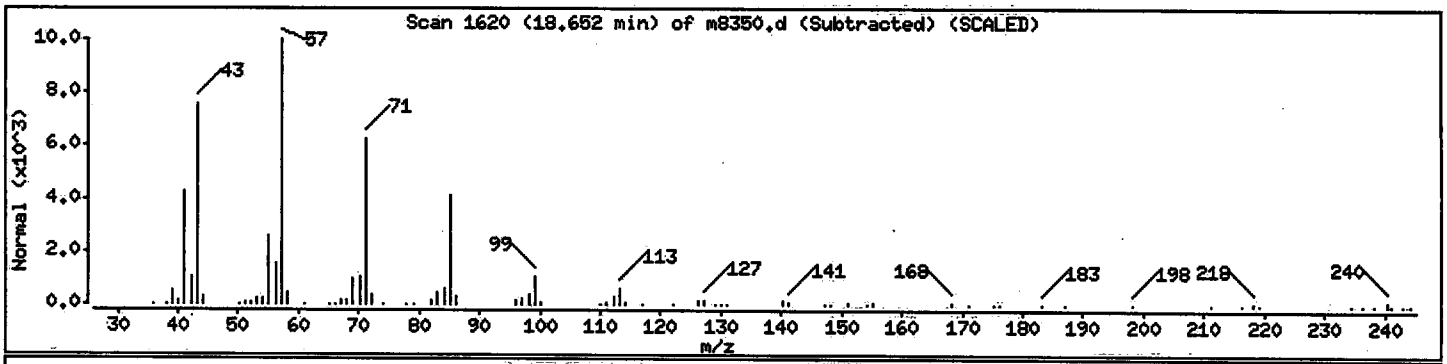
Volume Injected (uL): 2.0

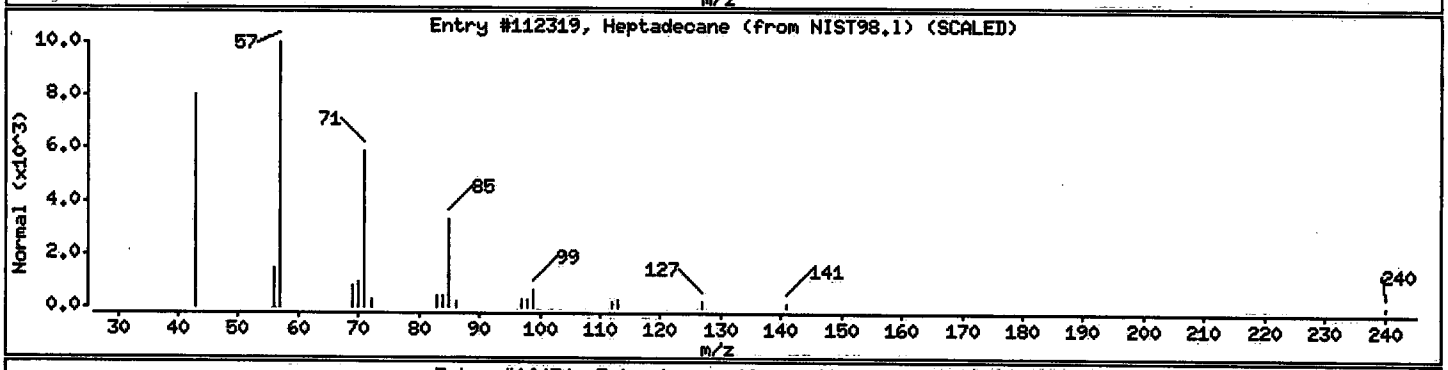
Operator: doe

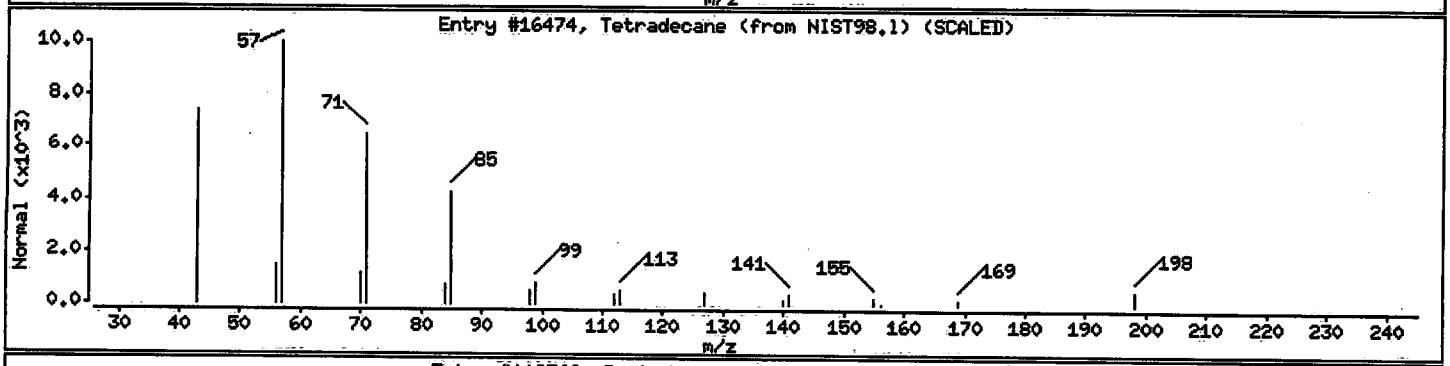
Column phase: ZB-5

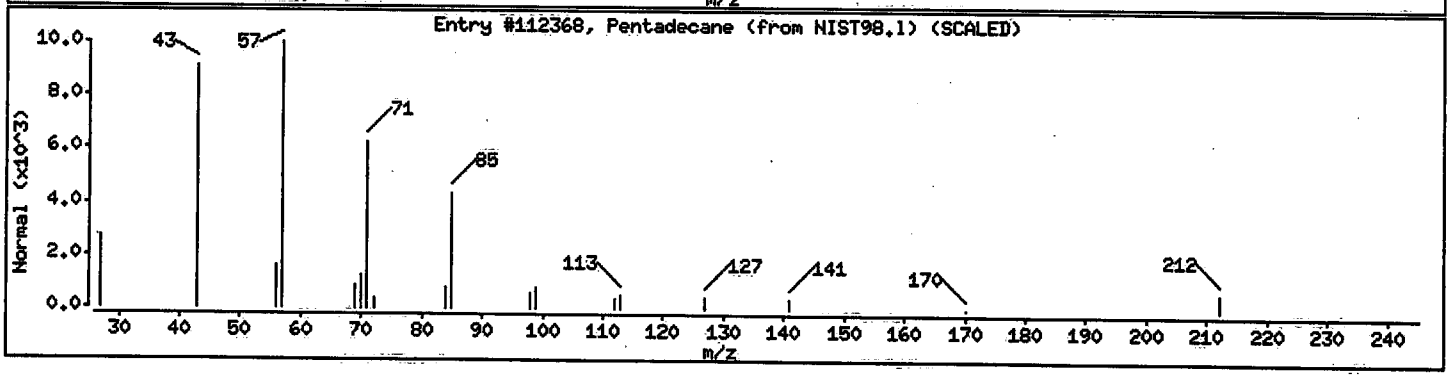
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecane	629-78-7	NIST98.1	112319	95	C17H36	240
Tetradecane	629-59-4	NIST98.1	16474	91	C14H30	198
Pentadecane	629-62-9	NIST98.1	112368	90	C15H32	212









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

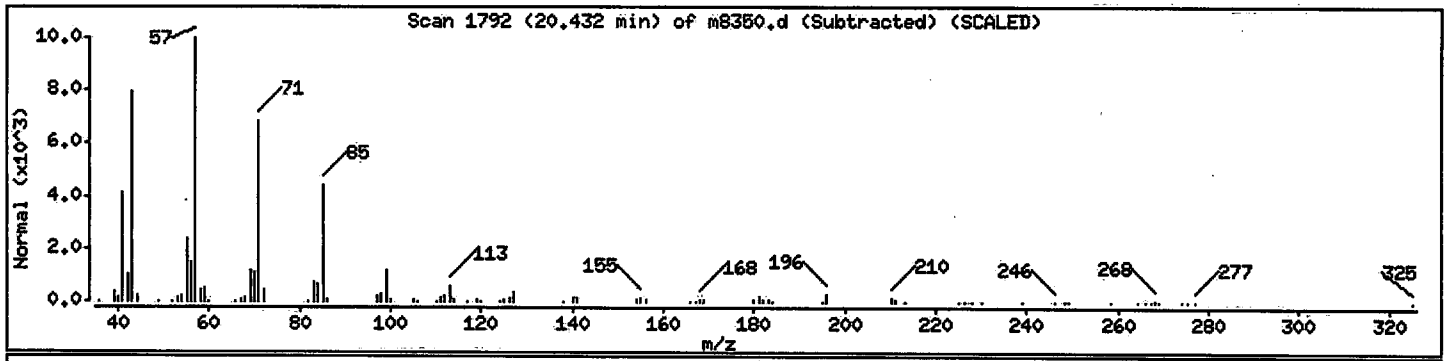
Volume Injected (uL): 2.0

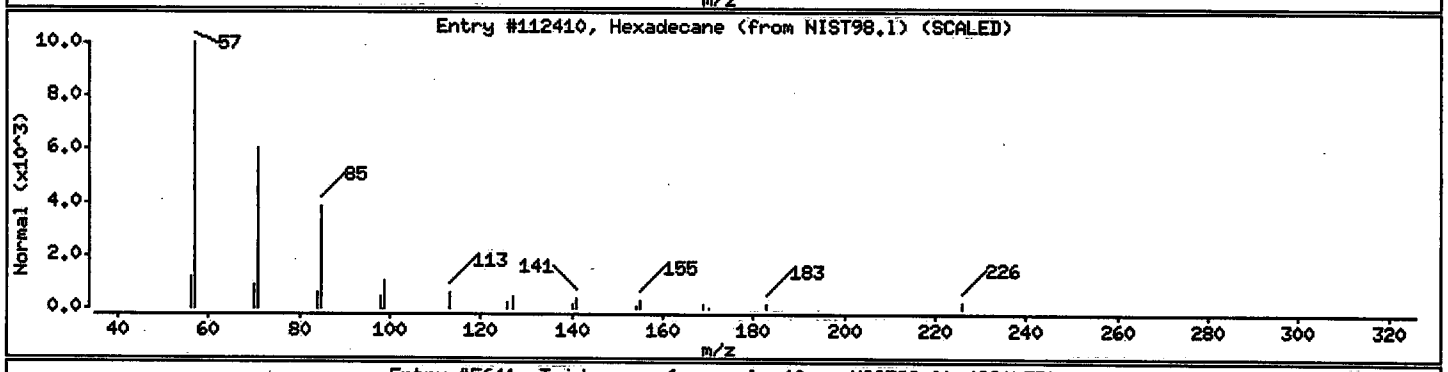
Operator: dce

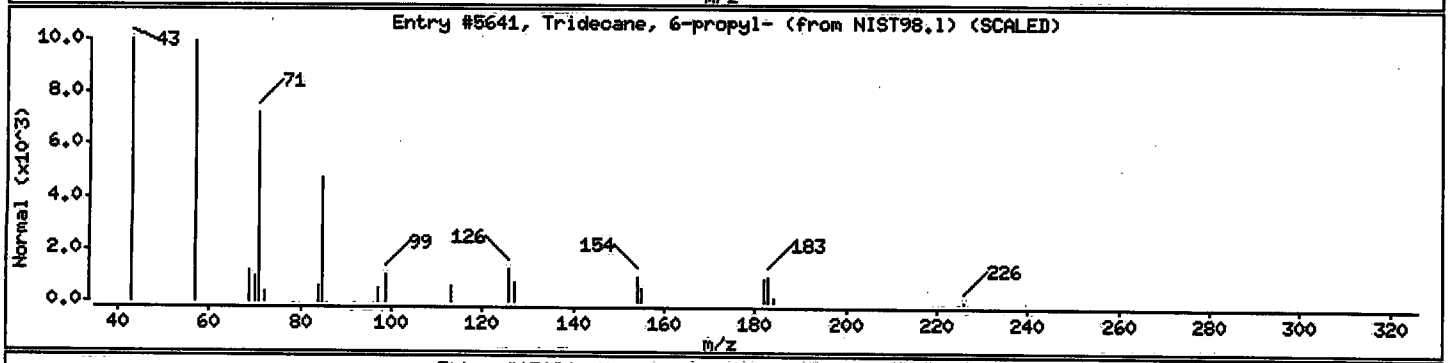
Column phase: ZB-5

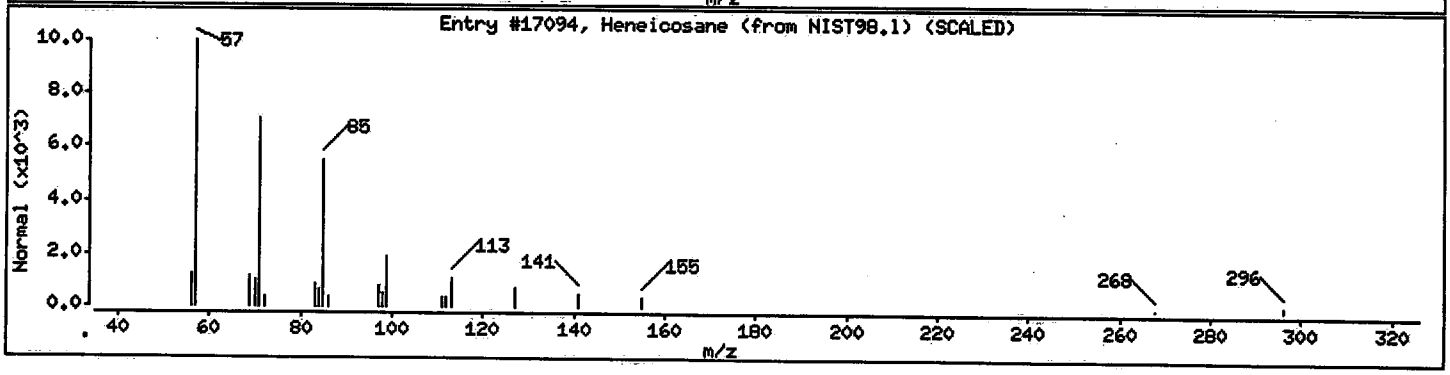
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexadecane	544-76-3	NIST98.1	112410	93	C16H34	226
Tridecane, 6-propyl-	55045-10-8	NIST98.1	5641	91	C16H34	226
Heneicosane	629-94-7	NIST98.1	17094	90	C21H44	296









Data File: /var/chem/molly.i/0307174m1r.b/m8350.d

Date : 17-JUL-2003 17:22

Client ID:

Instrument: molly.i

Sample Info: 0307090-03C

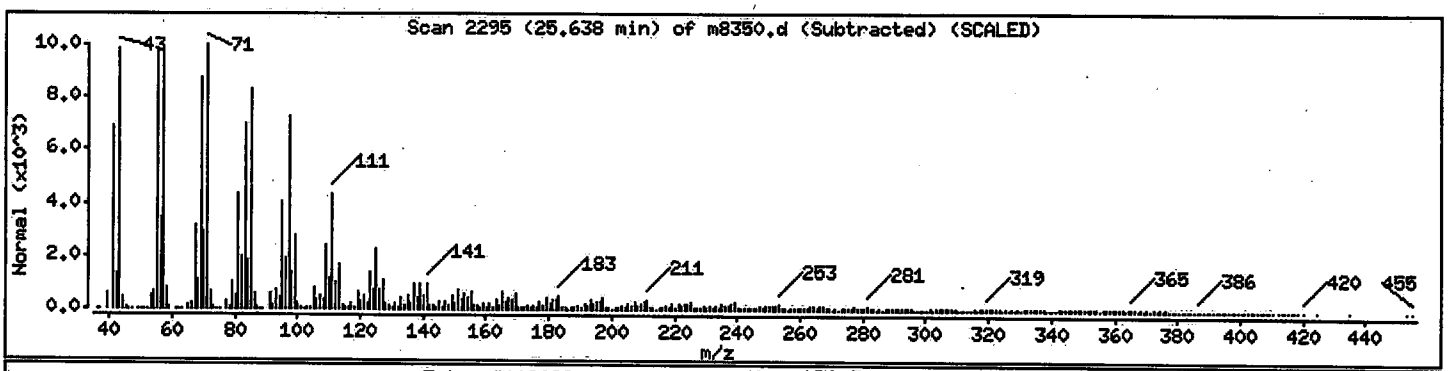
Volume Injected (uL): 2.0

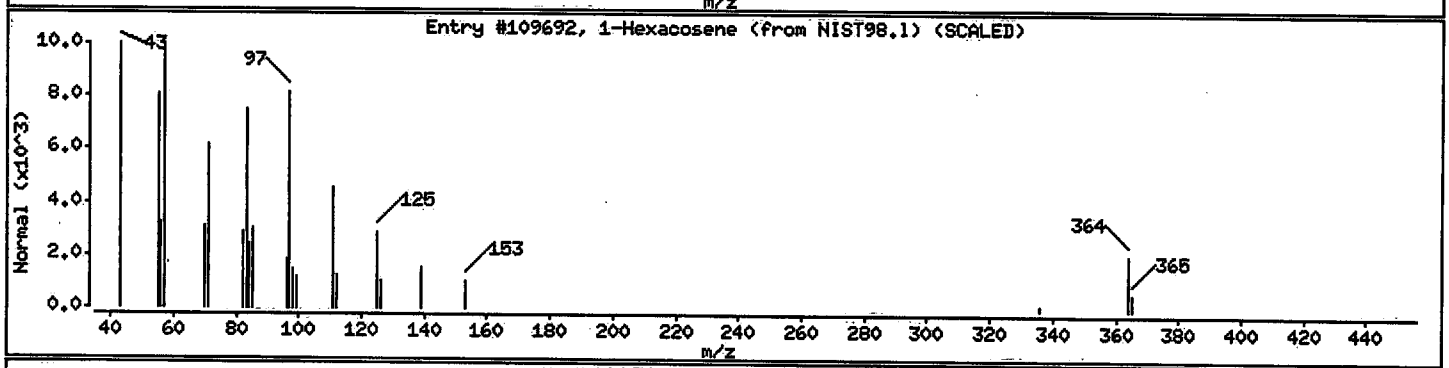
Operator: doe

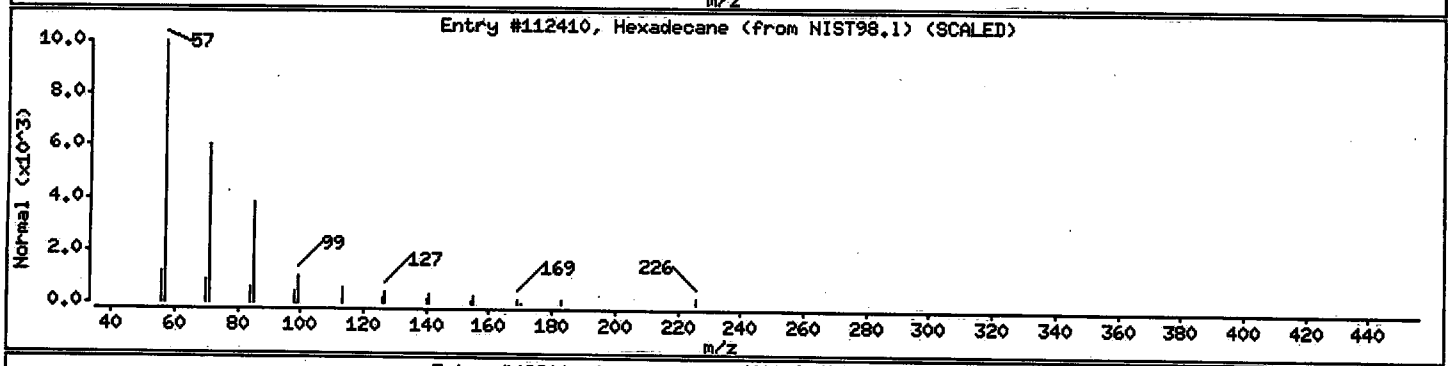
Column phase: ZB-5

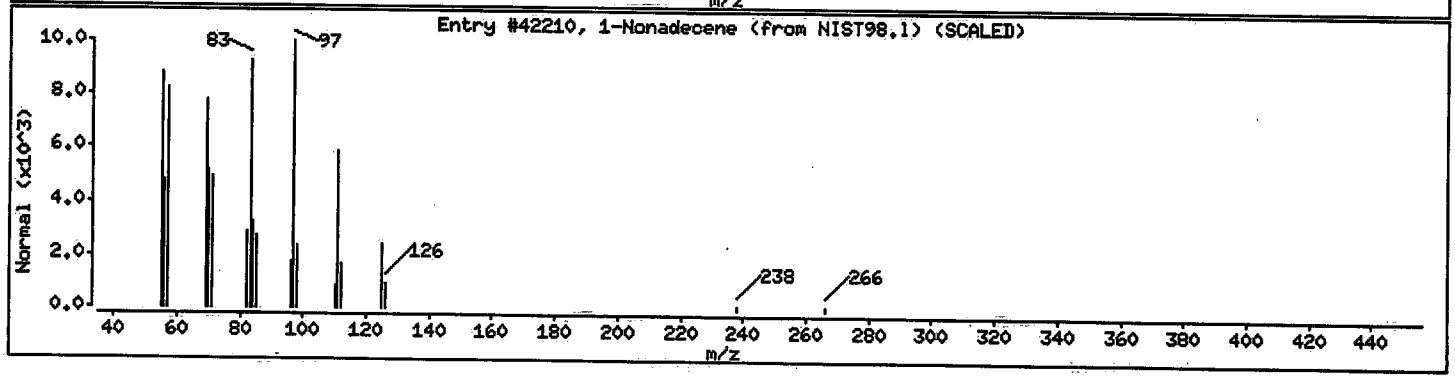
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Hexacosene	18835-33-1	NIST98.1	109692	95	C26H52	364
Hexadecane	544-76-3	NIST98.1	112410	94	C16H34	226
1-Nonadecene	18435-45-5	NIST98.1	42210	91	C19H38	266









Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8350.d
Lab Smp Id: 0307090-03C
Inj Date : 17-JUL-2003 17:22
Operator : dce Inst ID: molly.i
Smp Info : 0307090-03C
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.564	891036	40.000
* 30 Naphthalene-d8	12.825	1547749	40.000
* 47 Acenaphthene-d10	16.623	16730810	40.000
* 65 Phenanthrene-d10	19.625	21053521	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Cyclohexanamine					CAS #: 108-91-8		
5.207	5940497	266.677948	133	86	NIST98.1	111875	11
N,N-Diethyl-2-aminoethanol					CAS #: 100-37-8		
6.397	12602188	565.731387	283	94	NIST98.1	116803	11
Benzene, 1-ethyl-2-methyl-					CAS #: 611-14-3		
8.312	4342136	194.925072	97.5	97	NIST98.1	119283	11
Cyclohexane, isocyanato-					CAS #: 3173-53-3		
9.316	6811478	305.777584	153	52	NIST98.1	108747	11
Heptadecane					CAS #: 629-78-7		
13.021	7403186	191.327775	95.7	86	NIST98.1	112319	30
Formamide, N-cyclohexyl-					CAS #: 766-93-8		
13.922	4427765	114.431055	57.2	62	NIST98.1	12226	30
Naphthalene, 1,2,3,4-tetrahydro-5-methyl					CAS #: 2809-64-5		
14.015	5188110	134.081393	67.0	64	NIST98.1	59278	30
Tridecane					CAS #: 629-50-5		
14.357	8226852	212.614585	106	87	NIST98.1	112309	30
Benzocycloheptatriene					CAS #: 264-09-5		
14.646	5129048	132.554994	66.3	94	NIST98.1	122908	30
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime					CAS #: 4175-54-6		
14.698	4939696	127.661396	63.8	87	NIST98.1	120656	30
Ethyl 3-cyclohexenecarboxylate					CAS #: 15111-56-5		
14.915	12249511	29.2861138	14.6	78	NIST98.1	116167	47
Tetradecane					CAS #: 629-59-4		
15.547	8331784	19.9196173	9.96	94	NIST98.1	112356	47
Naphthalene, 2,6-dimethyl-					CAS #: 581-42-0		
15.764	6460627	15.4460582	7.72	98	NIST98.1	69576	47
Naphthalene, 1,3-dimethyl-					CAS #: 575-41-7		
15.940	5590521	13.3658113	6.68	97	NIST98.1	123958	47
Naphthalene, 1,4-dimethyl-					CAS #: 571-58-4		
16.344	4549730	10.8774880	5.44	94	NIST98.1	122928	47

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Naphthalene, 1,6,7-trimethyl-					CAS #: 2245-38-7		
17.327	5676962	13.5724721	6.79	90	NIST98.1	124867	47
3-Cyclohexene-1-acetic acid, .alpha.-oxo					CAS #: 77846-83-4		
17.969	4343152	10.3836012	5.19	47	WILEY.1	20818	47
Pentadecane, 2,6,10-trimethyl-					CAS #: 3892-00-0		
18.165	6857957	13.0295676	6.51	80	NIST98.1	16428	65
Heptadecane					CAS #: 629-78-7		
18.652	88066085	167.318490	83.6	95	NIST98.1	112319	65
Hexadecane					CAS #: 544-76-3		
20.432	79197632	150.469142	75.2	93	NIST98.1	112410	65
1-Hexacosene					CAS #: 18835-33-1		
25.638	3.658e+10	69505.0696	34800	95	NIST98.1	109692	65

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1'-Biphenyl	9.06	J	2.82	19.6	µg/L	1	7/17/2003 6:02:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		2.92	19.6	µg/L	1			
1,2-Dichlorobenzene	4.80	J	3.51	19.6	µg/L	1			
1,3-Dichlorobenzene	ND		3.8	19.6	µg/L	1			
1,4-Dichlorobenzene	ND		4.12	19.6	µg/L	1			
2,2'-Oxybis(1-chloropropane)	ND		4.71	19.6	µg/L	1			
2,4,5-Trichlorophenol	ND		5	49.0	µg/L	1			
2,4,6-Trichlorophenol	ND		6.18	19.6	µg/L	1			
2,4-Dichlorophenol	ND		5.22	19.6	µg/L	1			
2,4-Dimethylphenol	ND		5.82	19.6	µg/L	1			
2,4-Dinitrophenol	ND		5.94	49.0	µg/L	1			
2,4-Dinitrotoluene	ND		3.53	19.6	µg/L	1			
2,6-Dinitrotoluene	ND		3.14	19.6	µg/L	1			
2-Chloronaphthalene	ND		4.33	19.6	µg/L	1			
2-Chlorophenol	ND		5.61	19.6	µg/L	1			
2-Methylnaphthalene	203 ~~228~~	~~E~~ DJ	3.47	19.6	µg/L	1	D=1:3		
2-Methylphenol	11.8	J	6.57	19.6	µg/L	1			
2-Nitroaniline	ND		3.8	49.0	µg/L	1			
2-Nitrophenol	ND		6.29	19.6	µg/L	1			
3,3'-Dichlorobenzidine	ND		7.75	39.2	µg/L	1			
3-Nitroaniline	ND		4.02	49.0	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		5.04	49.0	µg/L	1			
4-Bromophenyl phenyl ether	ND		4.29	19.6	µg/L	1			
4-Chloro-3-methylphenol	ND		4.84	19.6	µg/L	1			
4-Chloroaniline	ND		3.63	19.6	µg/L	1			
4-Chlorophenyl phenyl ether	ND		3.53	19.6	µg/L	1			
4-Methylphenol	ND		5.29	19.6	µg/L	1			
4-Nitroaniline	ND		4.49	49.0	µg/L	1			
4-Nitrophenol	ND		6.69	49.0	µg/L	1			
Acenaphthene	ND		2.61	19.6	µg/L	1			
Acenaphthylene	ND		2.53	19.6	µg/L	1			
Acetophenone	35.3	J	3.1	19.6	µg/L	1			
Anthracene	ND		2.2	19.6	µg/L	1			
Atrazine	ND		3.61	19.6	µg/L	1			
Benz(a)anthracene	21.9	J	2.63	19.6	µg/L	1			
Benzaldehyde	ND	J	3.69	19.6	UJ µg/L	1			
Benzo(a)pyrene	9.72	J	2.24	19.6	µg/L	1			

Definitions:

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DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	20.0	J	3.84	19.6	µg/L	1			
Benzo(g,h,i)perylene	ND		2.94	19.6	µg/L	1			
Benzo(k)fluoranthene	ND	J	3.75	19.6	µg/L	1			
Benzoic acid	ND		8.43	49.0	µg/L	1			
Benzyl alcohol	ND		4.25	19.6	µg/L	1			
Bis(2-chloroethoxy)methane	ND		4.61	19.6	µg/L	1			
Bis(2-chloroethyl)ether	ND		4.39	19.6	µg/L	1			
Bis(2-ethylhexyl)phthalate	68.4	BUJ	5.94	19.6	µg/L	1			
Butyl benzyl phthalate	ND		2.67	19.6	µg/L	1			
Caprolactam	ND		2.29	19.6	µg/L	1			
Carbazole	ND		2.53	19.6	µg/L	1			
Chrysene	ND		2.55	19.6	µg/L	1			
Di-n-butyl phthalate	ND		4.59	19.6	µg/L	1			
Di-n-octyl phthalate	ND		6.75	19.6	µg/L	1			
Dibenz(a,h)anthracene	ND		2.69	19.6	µg/L	1			
Dibenzofuran	4.64	J	2.76	19.6	µg/L	1			
Diethyl phthalate	ND		2.63	19.6	µg/L	1			
Dimethyl phthalate	ND		4.02	19.6	µg/L	1			
Fluoranthene	26.5	J	3.53	19.6	µg/L	1			
Fluorene	15.1	J	2.69	19.6	µg/L	1			
Hexachlorobenzene	ND		3.24	19.6	µg/L	1			
Hexachlorobutadiene	ND		3.16	19.6	µg/L	1			
Hexachlorocyclopentadiene	ND	J	2.57	49.0	UJ µg/L	1			
Hexachloroethane	ND		3.73	19.6	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		6.78	19.6	µg/L	1			
Isophorone	ND		3.12	19.6	µg/L	1			
N-Nitrosodi-n-propylamine	ND		3.9	19.6	µg/L	1			
N-Nitrosodimethylamine	ND		3.55	19.6	µg/L	1			
N-Nitrosodiphenylamine	ND		3.27	19.6	µg/L	1			
Naphthalene	125	J	2.88	19.6	µg/L	1			
Nitrobenzene	ND		3.57	19.6	µg/L	1			
Pentachlorophenol	ND		6.27	49.0	µg/L	1			
Phenanthrene	42.1	J	2.55	19.6	µg/L	1			
Phenol	ND		7.18	19.6	µg/L	1			
Pyrene	29.8	J	2.1	19.6	µg/L	1			
Surr:2,4,6-Tribromophenol	143			32 - 162	%REC	1	7/17/2003 6:02:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	68			38 - 129	%REC	1			

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Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** SAMP **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	63			15 - 142	%REC	1			
Surr:Nitrobenzene-d5	92			45 - 118	%REC	1			
Surr:Phenol-d5	104			18 - 136	%REC	1			
Surr:Terphenyl-d14	130			10 - 154	%REC	1			

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D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	Weston Solutions, Inc.	**Client Sample ID:**	**BBW-W-02**
Lab Order:	0307090	**Alt. Client ID:**	
Project:	START RFP 3481	**Collection Date:**	7/9/2003 9:30:00 AM
Lab ID:	**0307090-04C**	**Sample Type:** SAMP	**Matrix:** WATER	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3520C_TCL_W

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
~~620-14-4~~	Benzene, ~~1-ethyl-3-methyl-~~ substituted	8.31	180	~~NJ~~	µg/L	1	94	7/17/2003 6:02:00 PM	MOLLY_030717A	
~~526-73-8~~	Benzene, ~~1,2,3-~~trimethyl-	9.15	240	~~NJ~~	µg/L	1	94			
~~124-18-5~~	~~Decane~~ alkane	9.32	160	~~NJ~~	µg/L	1	76			
~~1120-21-4~~	~~Undecane~~ alkane	11.43	150	~~NJ~~	µg/L	1	91			
~~933-98-2~~	Benzene, ~~1-ethyl-2,3-dimethyl-~~ substituted	12.35	140	~~NJ~~	µg/L	1	70			
~~629-59-4~~	~~Tetradecane (13.022)~~ alkane	13.02	240	~~NJ~~	µg/L	1	90			
~~1680-51-9~~	Naphthalene, ~~1,2,3,4-tetrahydro-6-methyl~~ substituted	14.02	150	~~NJ~~	µg/L	1	78			
~~629-50-5~~	~~Tridecane~~ alkane	14.36	250	~~NJ~~	µg/L	1	95			
90-12-0 ~~4453-90-1~~	1,~~4-Methanonaphthalene, 1,4-dihydro-~~ 1-methylnaphthalene	14.65	140	NJ	µg/L	1	94			
15111-56-5	Ethyl 3-cyclohexenecarboxylate	14.93	17	NJ	µg/L	1	72			
~~629-59-4~~	~~Tetradecane (15.558)~~ alkane	15.56	18	~~NJ~~	µg/L	1	94			
~~581-42-0~~	Naphthalene, ~~2,6-~~dimethyl-	15.77	12	~~NJ~~	µg/L	1	98			
~~581-40-8~~	Naphthalene, ~~2,8-~~dimethyl-	15.94	11	~~NJ~~	µg/L	1	98			
~~582-16-1~~	Naphthalene, ~~2,7-~~dimethyl-	15.98	6	~~NJ~~	µg/L	1	97			
~~6117-97-1~~	Dodecane, ~~4-methyl-~~ alkane	16.24	7	~~NJ~~	µg/L	1	76			
~~2131-42-2~~	Naphthalene, ~~1,4,6-~~trimethyl-	17.36	11	~~NJ~~	µg/L	1	97			
~~54105-67-8~~	~~Heptadecane, 2,6-dimethyl-~~ alkane	18.7	25	~~NJ~~	µg/L	1	91			
~~2937-53-3~~	~~Thiosulfuric acid (H2S2O3), S-(2-aminoet~~ unknown	21.05	66	~~NJ~~	µg/L	1	60			
~~18435-45-5~~	~~1-Nonadecene~~ unknown	25.67	6200	~~NJ~~	µg/L	1	94			
~~55320-06-4~~	~~Henicosane, 11-decyl-~~ unknown	29.41	140	~~NJ~~	µg/L	1	94			

Number TICs Found: 20

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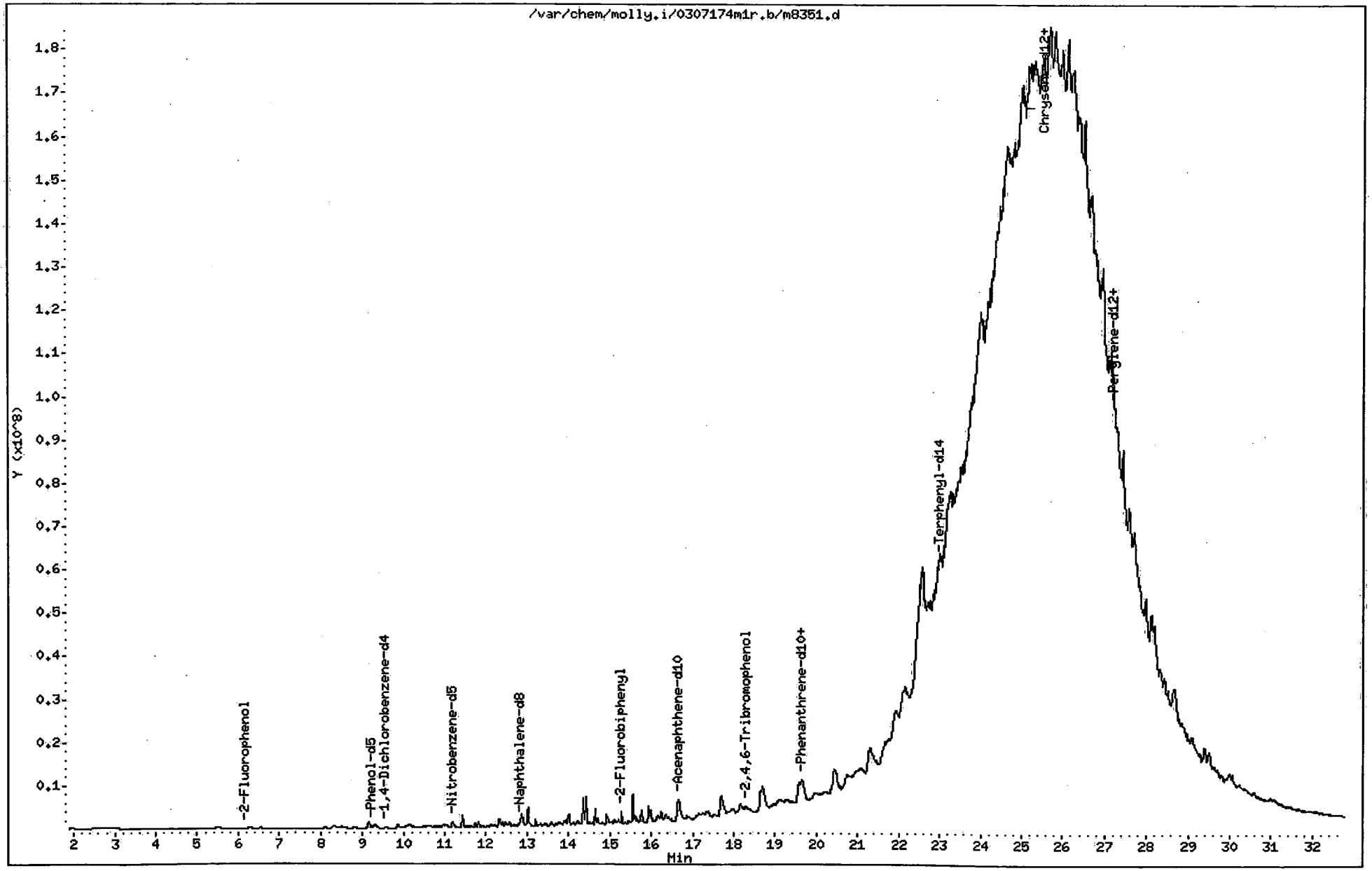
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

515

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Date : 17-JUL-2003 18:02
Client ID:
Sample Info: 0307090-04C
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8351.d
Lab Smp Id: 0307090-04C
Inj Date : 17-JUL-2003 18:02
Operator : dce Inst ID: molly.i
Smp Info : 0307090-04C
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 21-Jul-2003 06:24 kkuhrt Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	1020.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	6.160	5.879	(0.644)	155483	37.6293	36.9(M) KK 7/22/03
$ 6 Phenol-d5	99	9.234	8.964	(0.965)	371714	62.5317	61.3
* 11 1,4-Dichlorobenzene-d4	152	9.565	9.564	(1.000)	131201	40.0000	
14 1,2-Dichlorobenzene	146	10.145	10.143	(1.061)	24928	4.89663	4.80(aQ)
15 2-Methylphenol	108	10.817	10.651	(1.131)	56781	12.0403	11.8
17 Acetophenone	105	10.838	10.827	(1.133)	286154	36.0170	35.3(H)
$ 21 Nitrobenzene-d5	82	11.190	11.189	(0.872)	352013	46.0390	45.1
* 30 Naphthalene-d8	136	12.836	12.824	(1.000)	562265	40.0000	
31 Naphthalene	128	12.877	12.876	(1.003)	2083704	127.471	125
36 2-Methylnaphthalene	141	14.419	14.418	(1.123)	2256751	232.525	228(A)
$ 40 2-Fluorobiphenyl	172	15.278	15.277	(0.919)	611037	34.0797	33.4(R)
42 Biphenyl	154	15.444	15.443	(0.929)	198173	9.24232	9.06(a)
* 47 Acenaphthene-d10	164	16.624	16.623	(1.000)	529465	40.0000	
52 Dibenzofuran	168	17.027	17.016	(1.024)	116118	4.73161	4.64(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	55 Fluorene	166	17.742	17.720	(1.067)	305587	15.3545	15.0
$	60 2,4,6-Tribromophenol	330	18.311	18.258	(1.101)	207116	85.5495	83.9
*	65 Phenanthrene-d10	188	19.646	19.593	(1.000)	1676252	40.0000	
	66 Phenanthrene	178	19.667	19.645	(1.001)	2109894	42.8917	42.0
	70 Fluoranthene	202	22.151	22.056	(1.127)	1620735	26.9786	26.4
	72 Pyrene	202	22.596	22.491	(1.000)	2702879	30.4049	29.8(Q)
$	73 Terphenyl-d14	244	23.010	22.895	(0.000)	3622223	64.7550	63.5(M)
	75 Benzo(a)anthracene	228	25.038	24.841	(1.000)	2108843	22.3652	21.9(Q)
*	77 Chrysene-d12	240	25.069	24.861	(1.000)	3223981	40.0000	(M)
	79 Bis(2-ethylhexyl)phthalate	149	25.245	25.089	(1.007)	4688493	69.5625	68.2(M)
	81 Benzo(b)fluoranthene	252	26.663	26.455	(0.980)	1080748	20.4450	20.0(H)
	83 Benzo(a)pyrene	252	27.129	26.911	(0.997)	461707	9.91417	9.72(aH)
*	84 Perylene-d12	264	27.212	27.004	(1.000)	1098211	40.0000	(M)

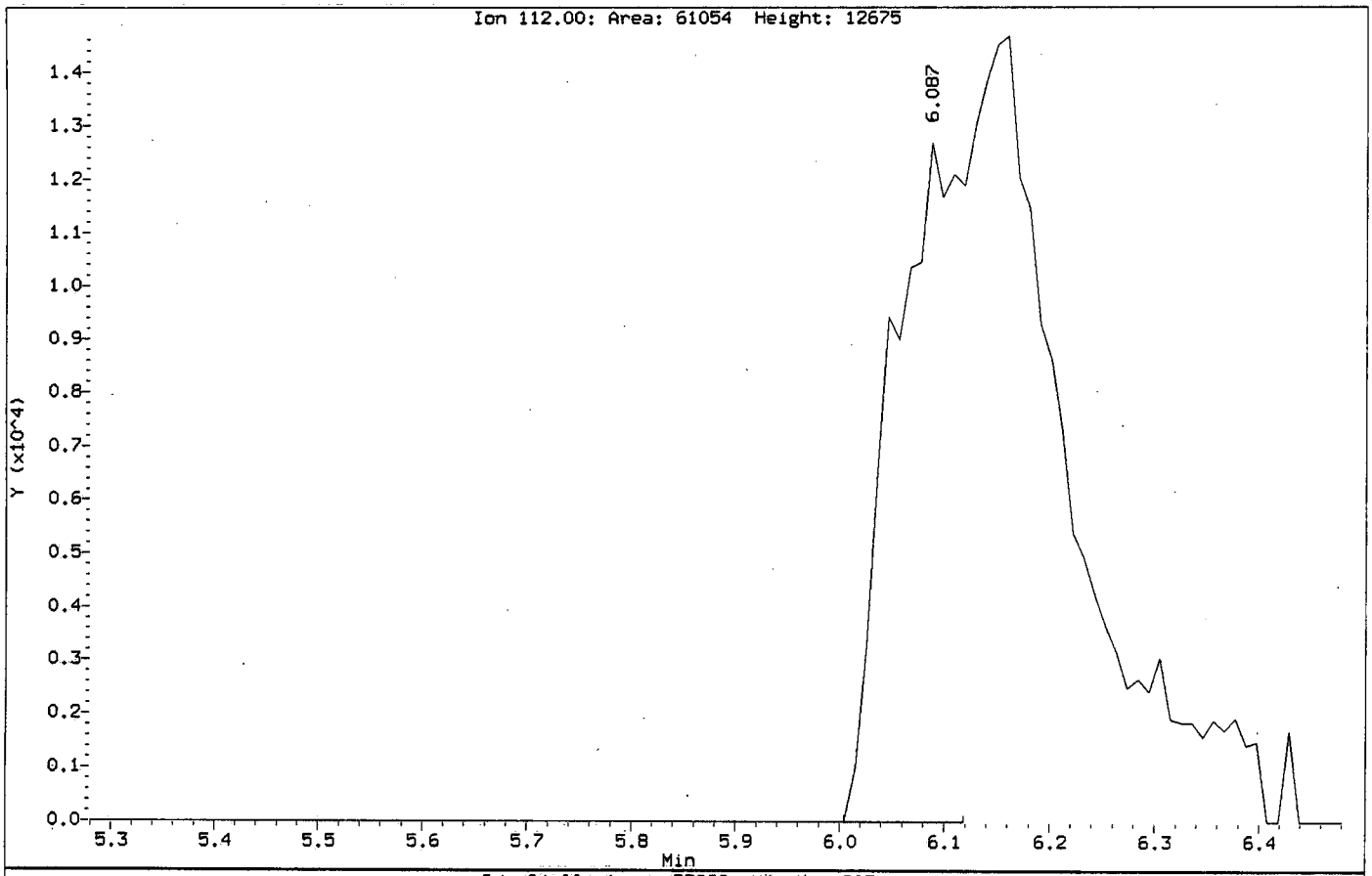
KK 7/22/03

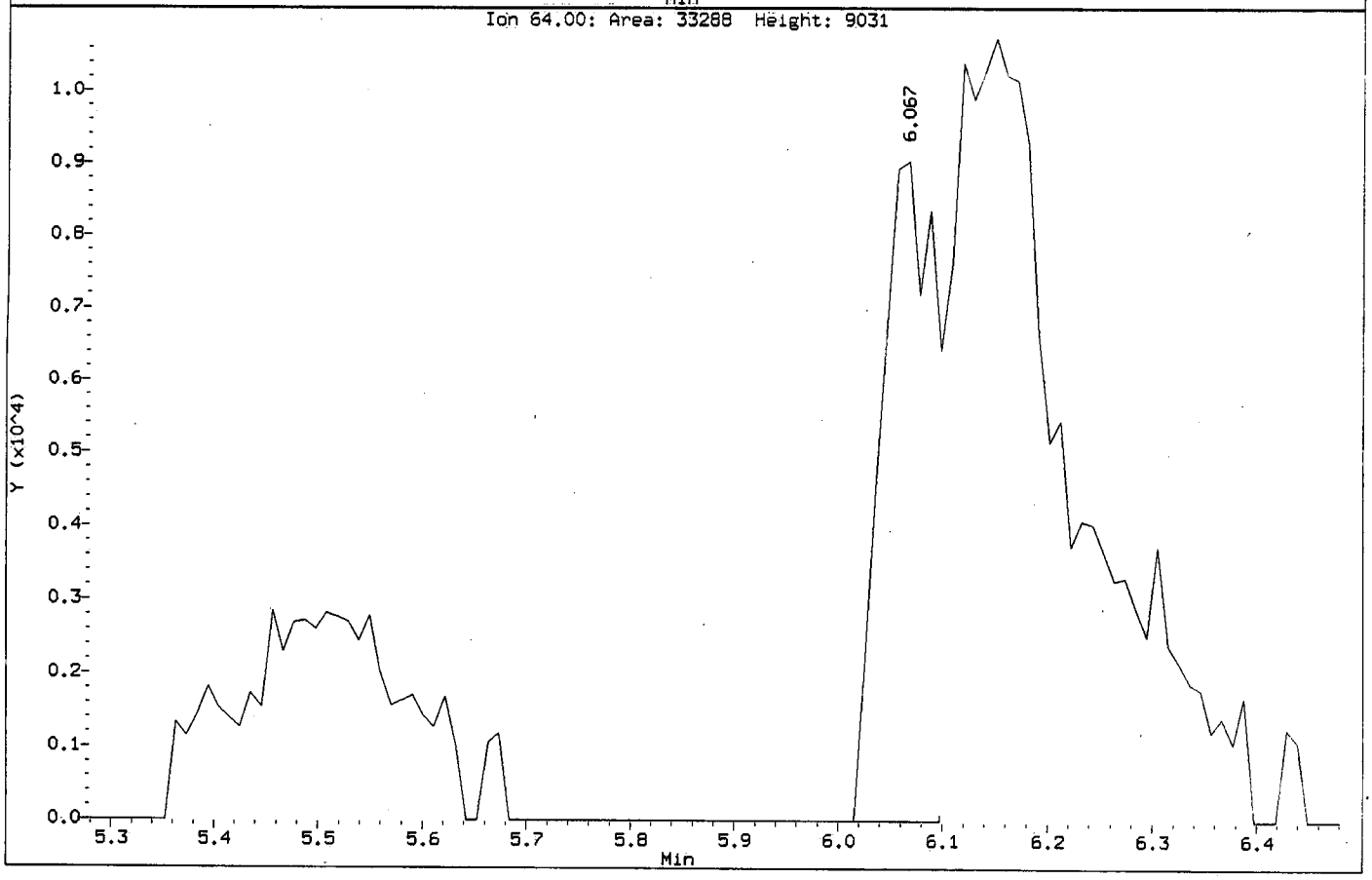
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: 2-Fluorophenol
CAS Number: 367-12-4

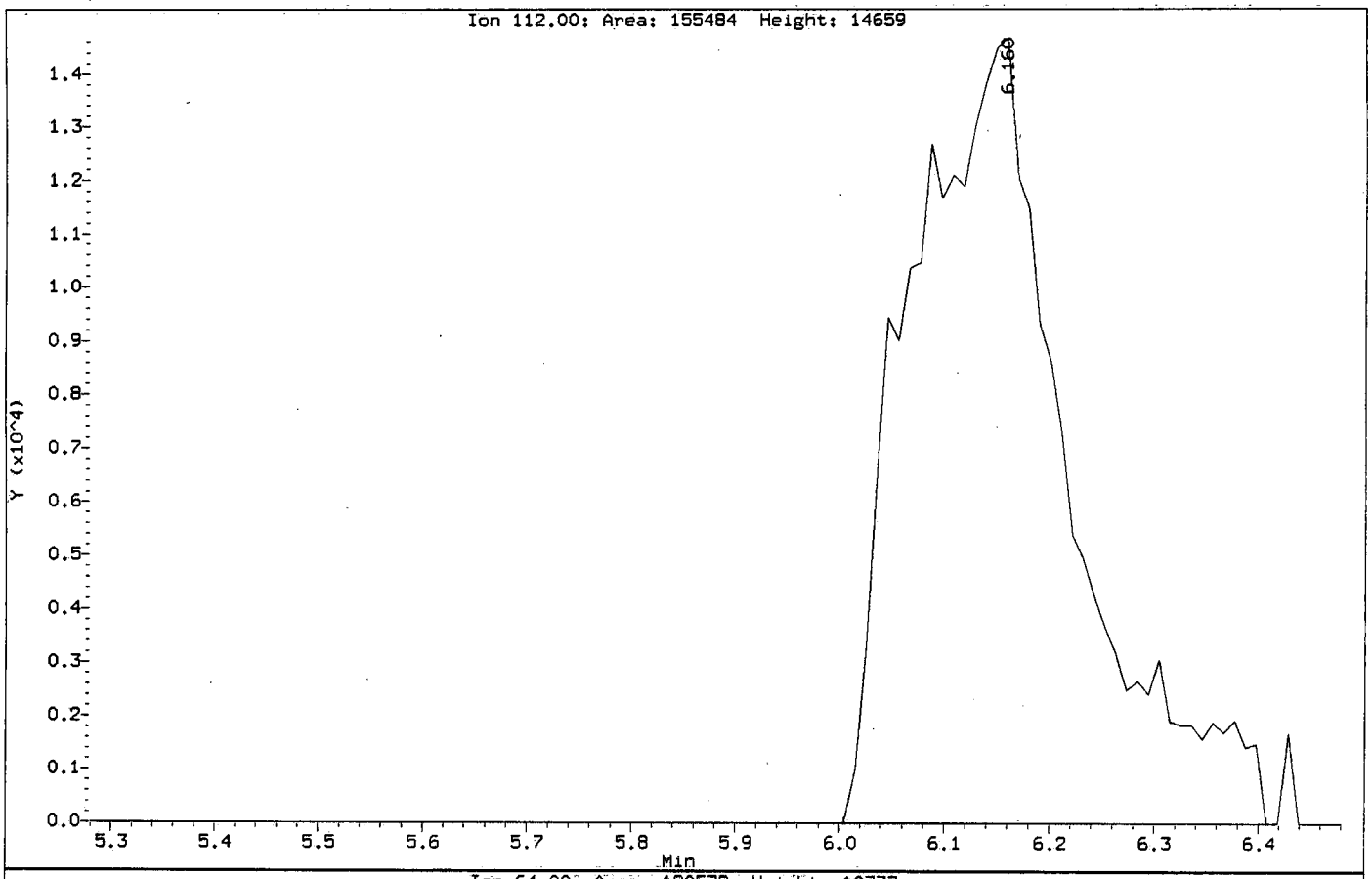


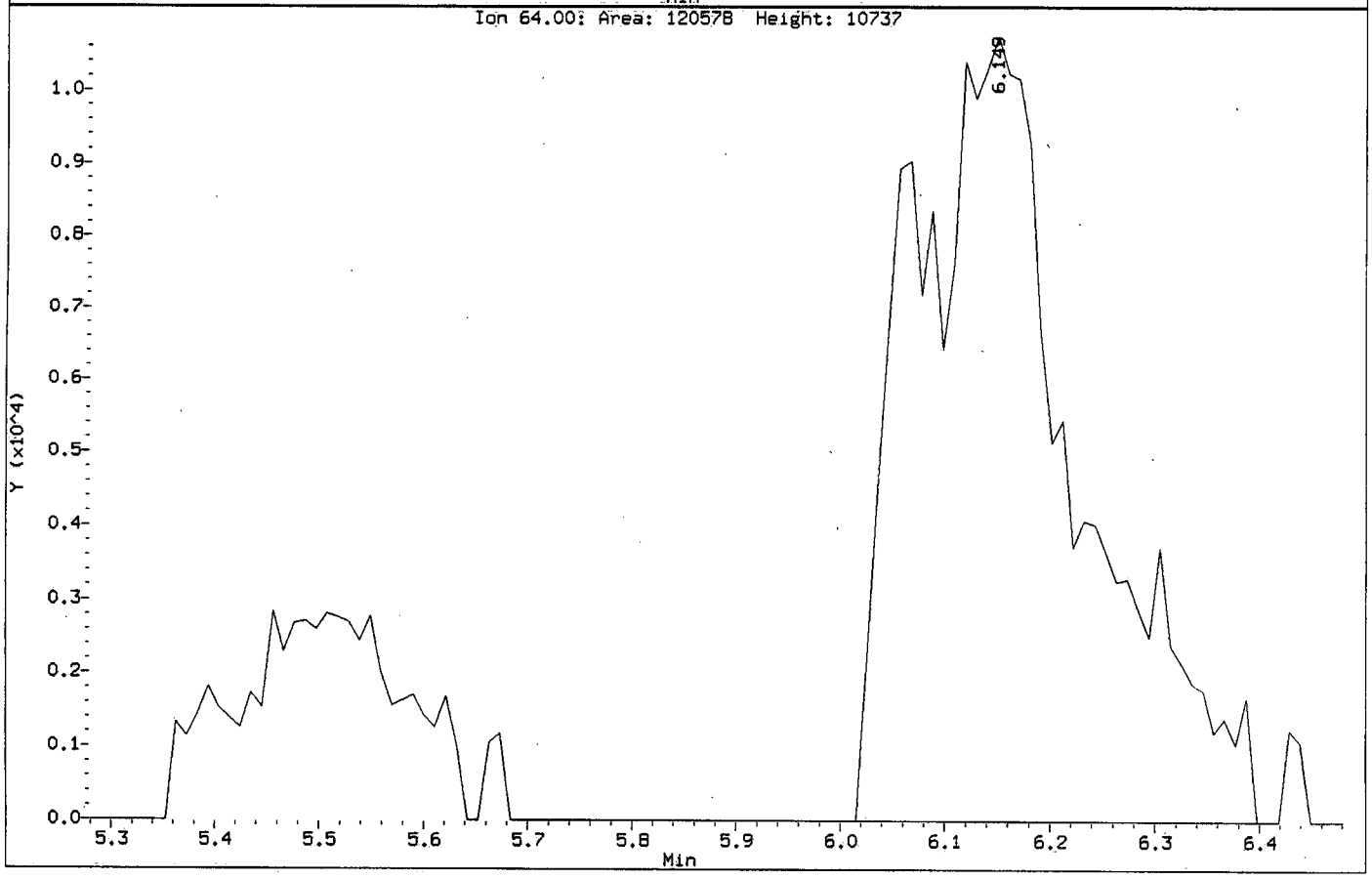


Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: 2-Fluorophenol
CAS Number: 367-12-4

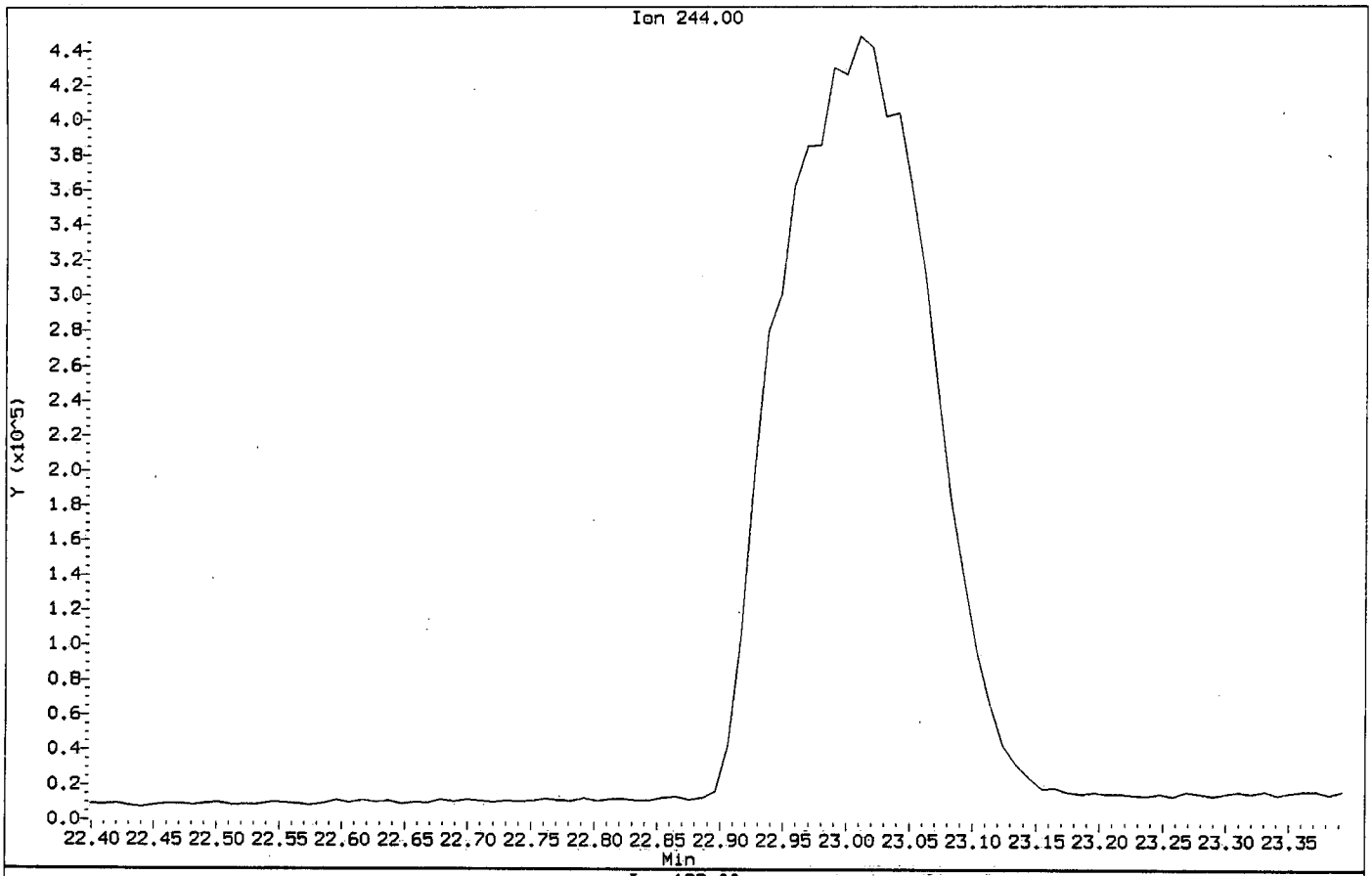
Rd PK 7/19/02
integrate entire area
Kathy Kubert 7/21/03

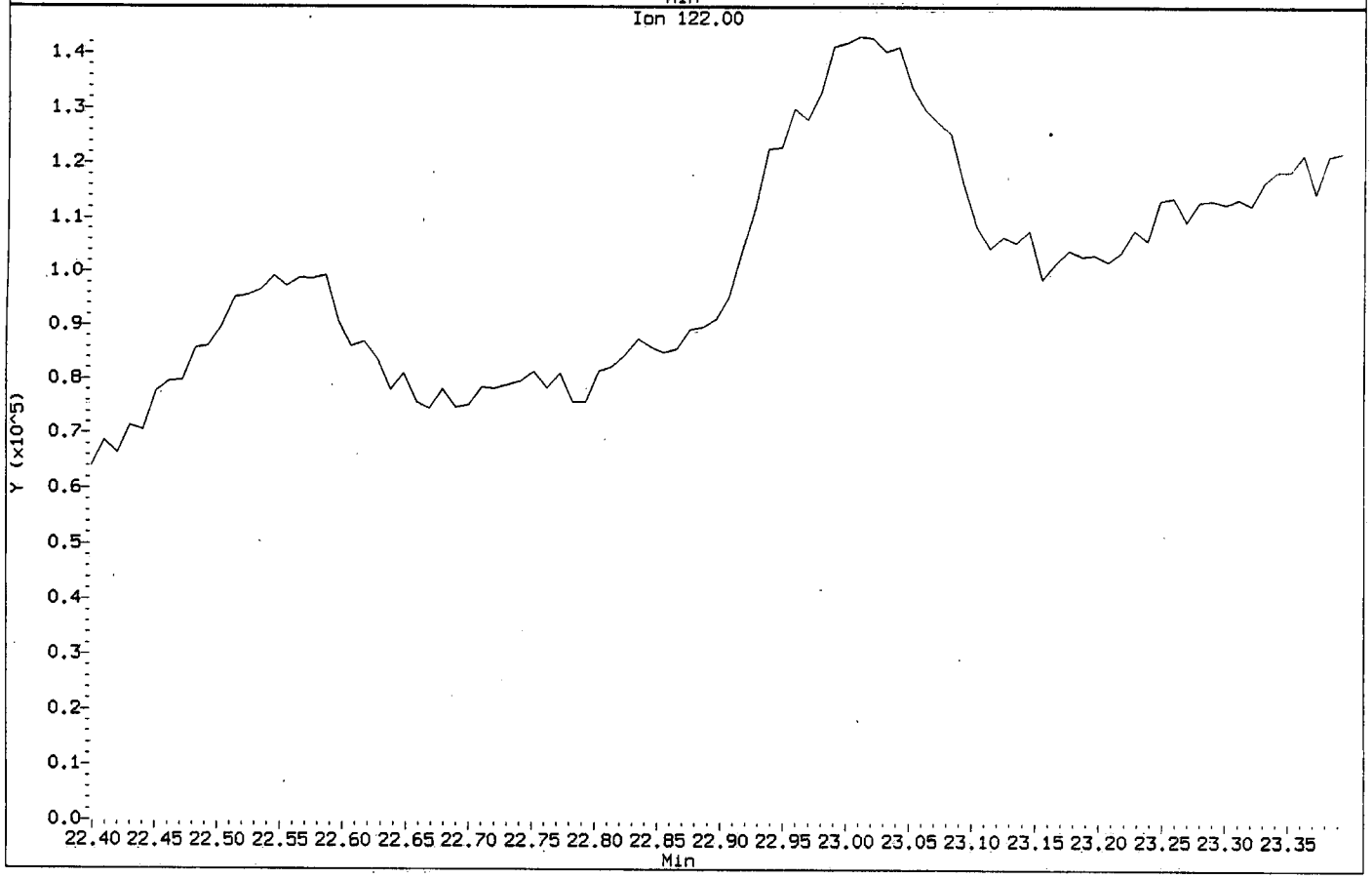




Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

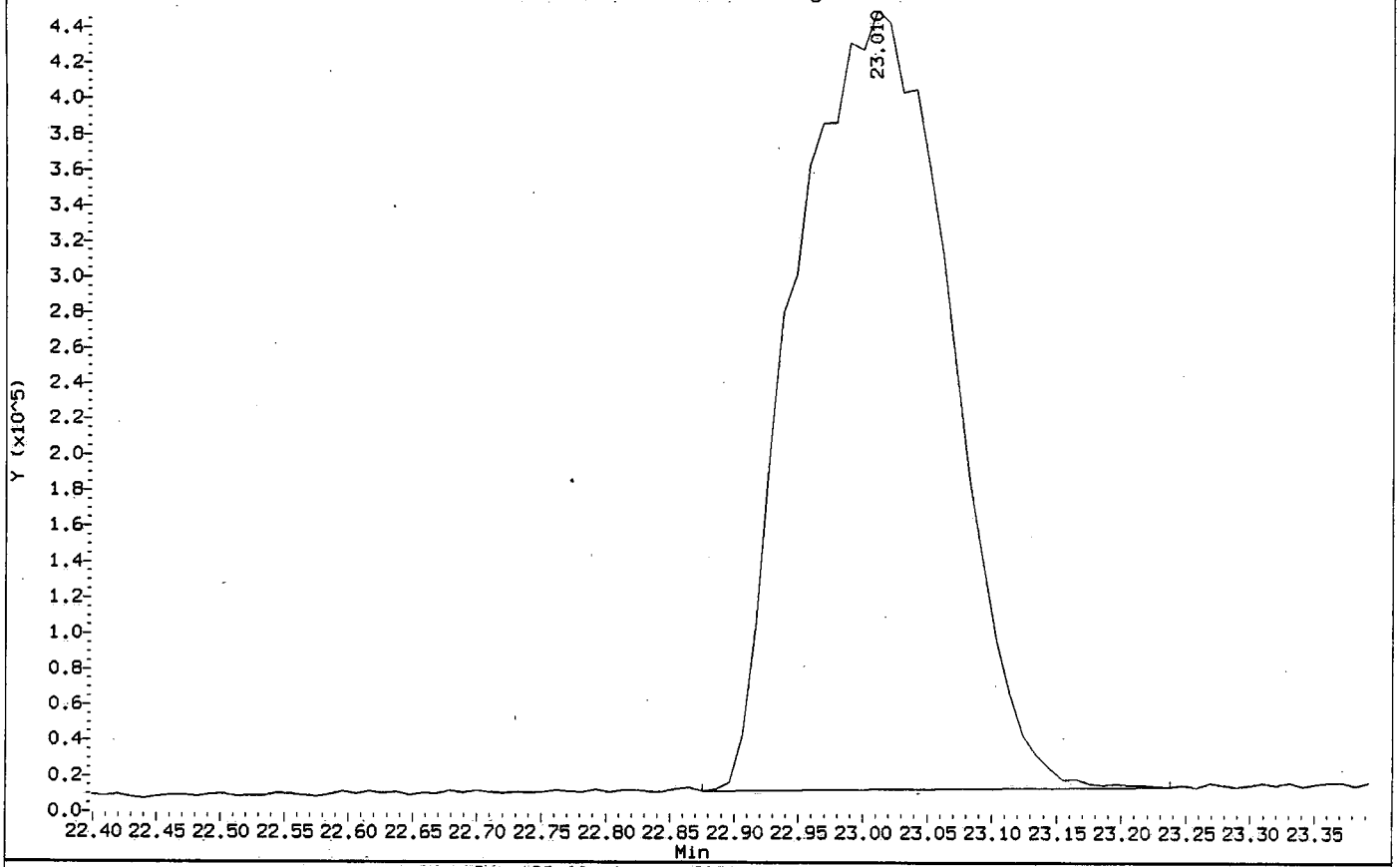
Compound: Terphenyl-d14
CAS Number: 98904-43-9

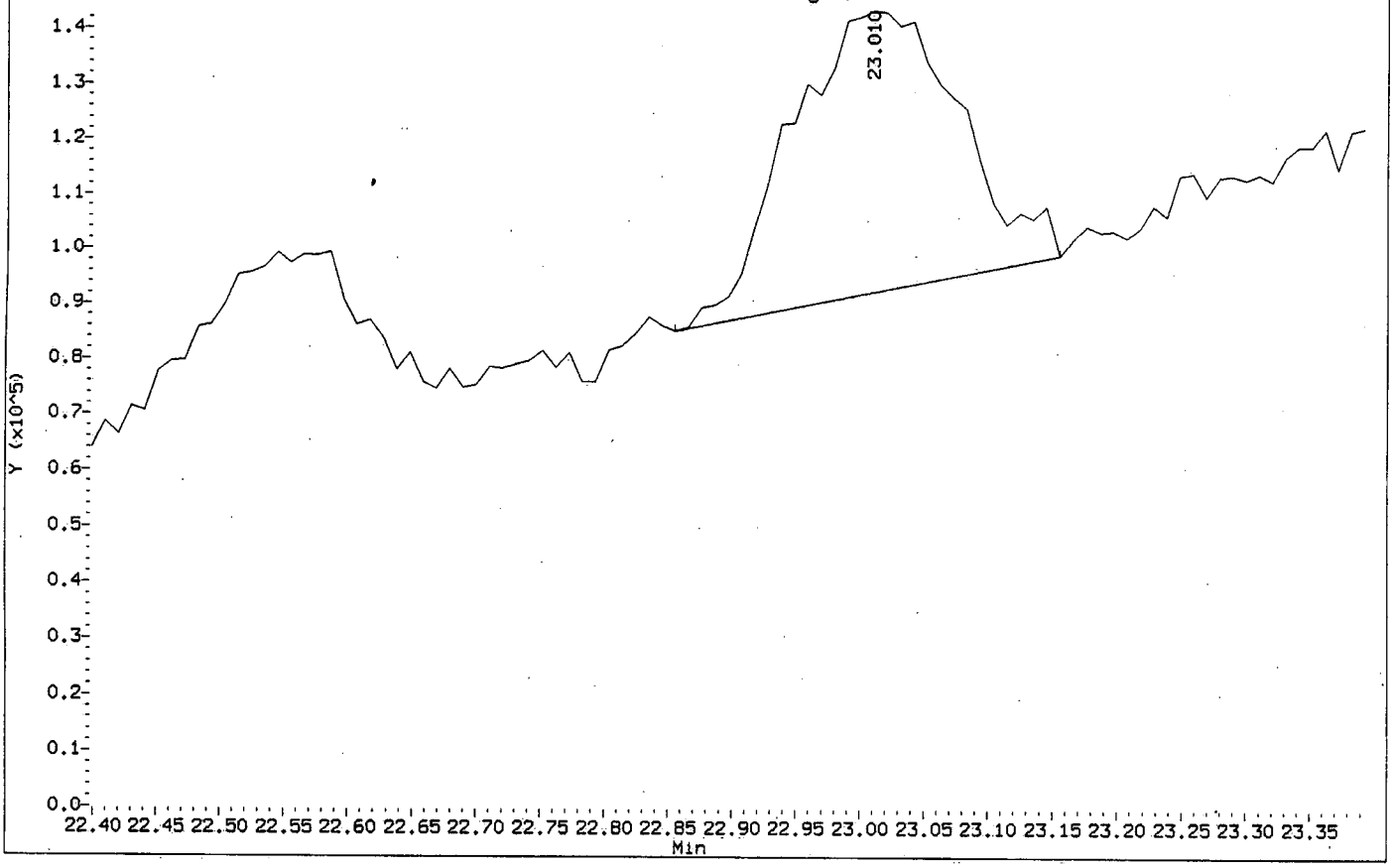




Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

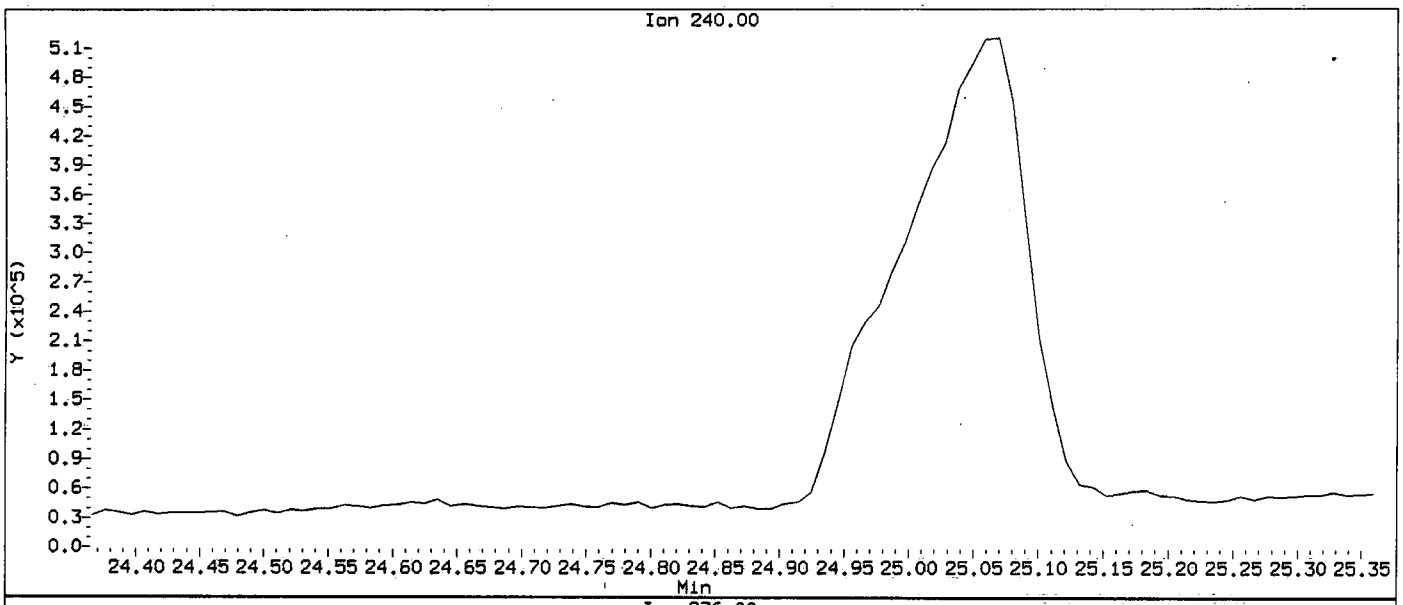


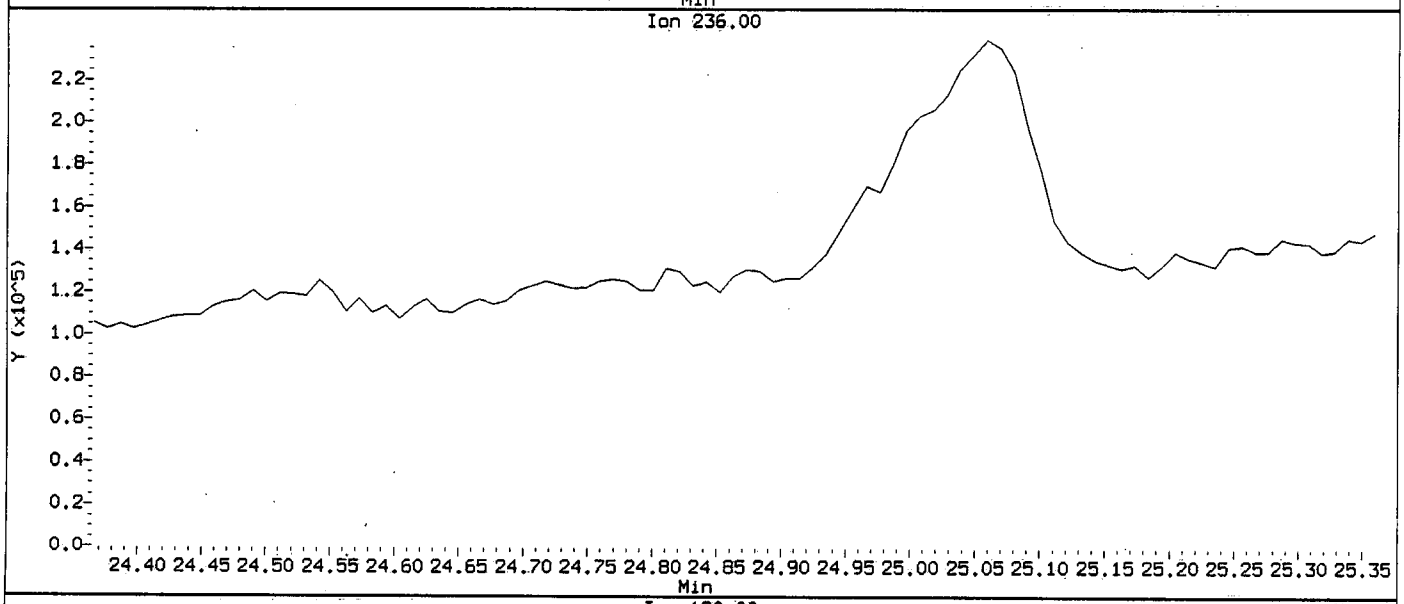


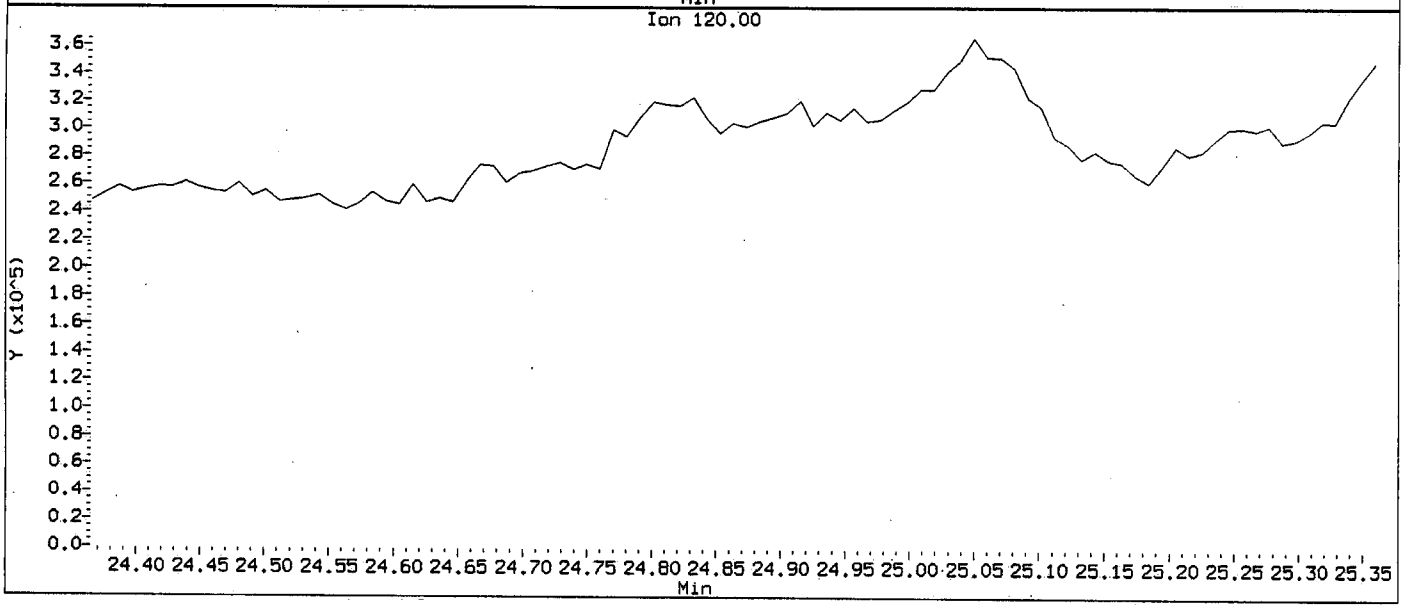
Rebecca 7/19/03
originally missed, not integrated
Kathy Kubat 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5



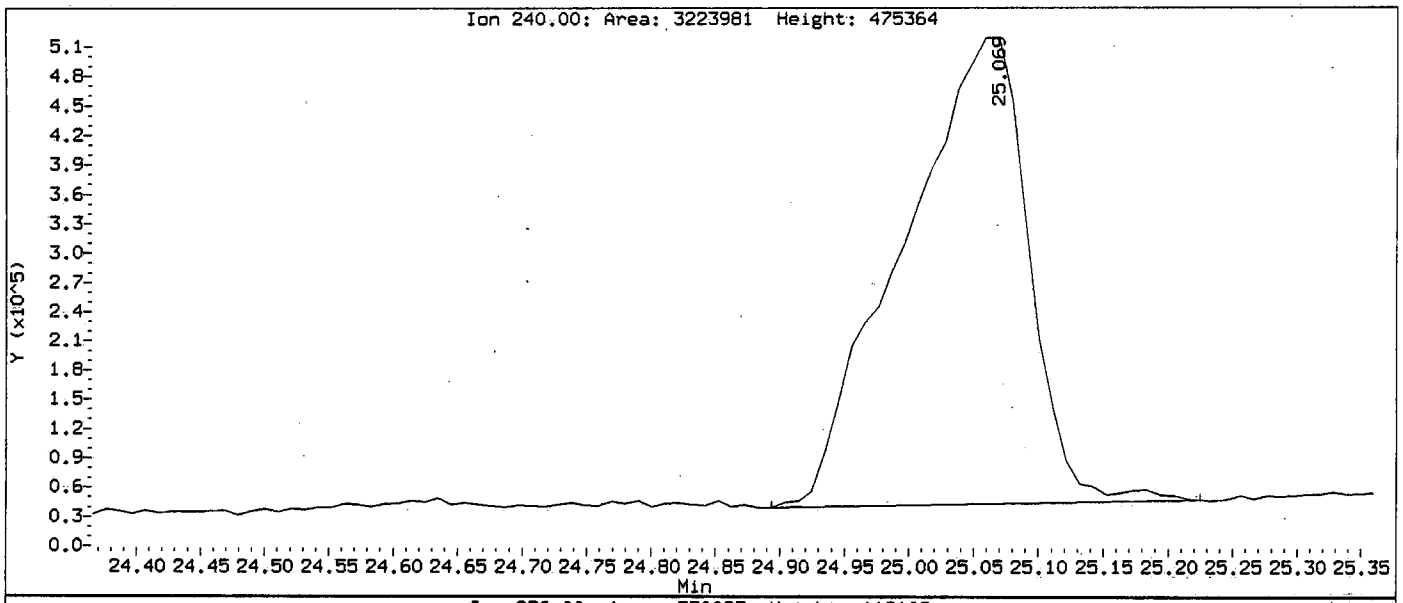


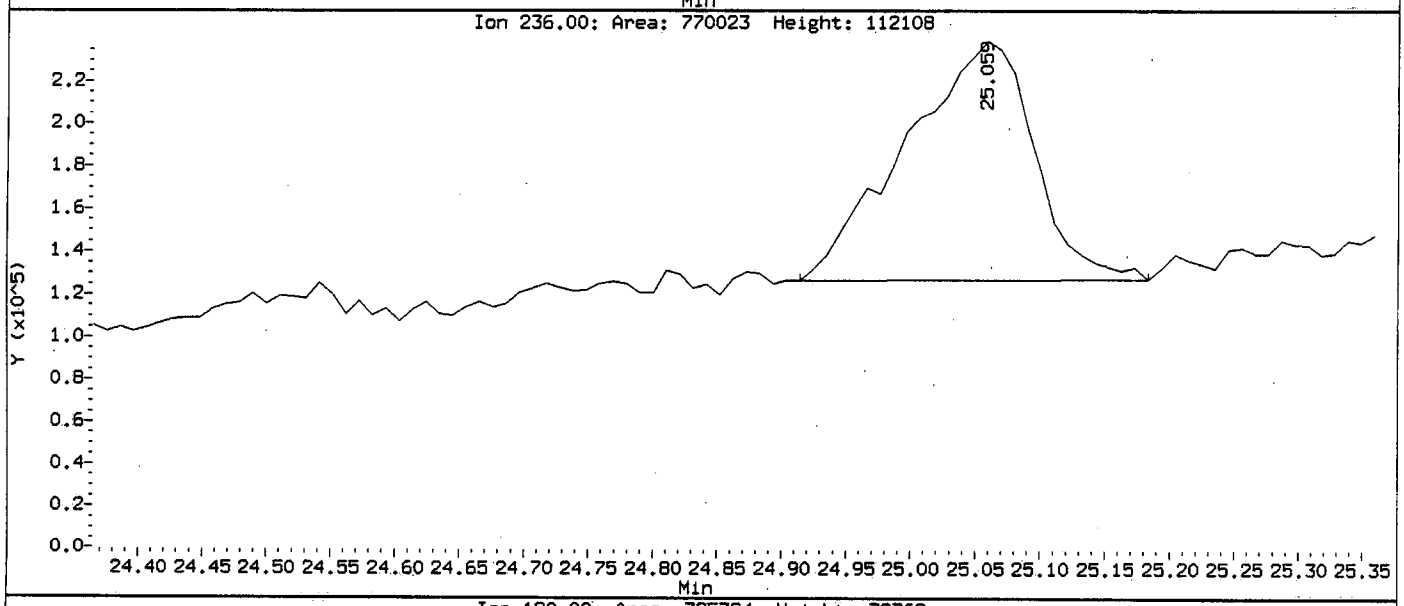


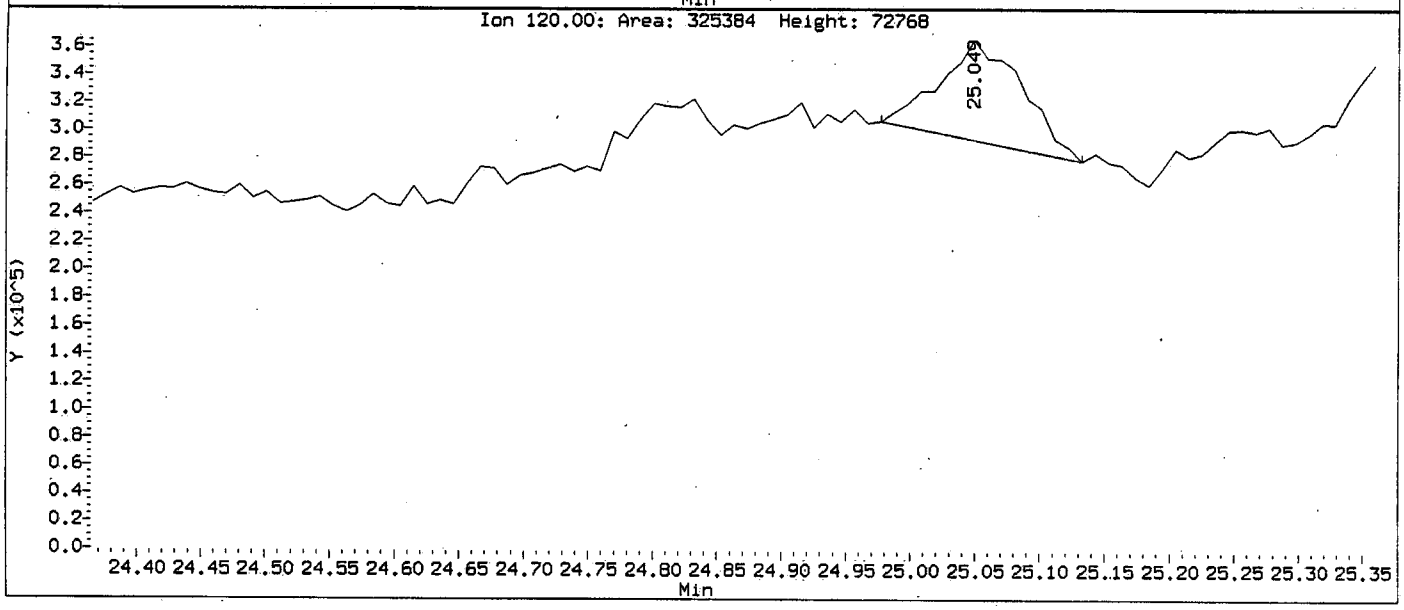
7/19/03
originally not integrated
Kathy Kubert 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5

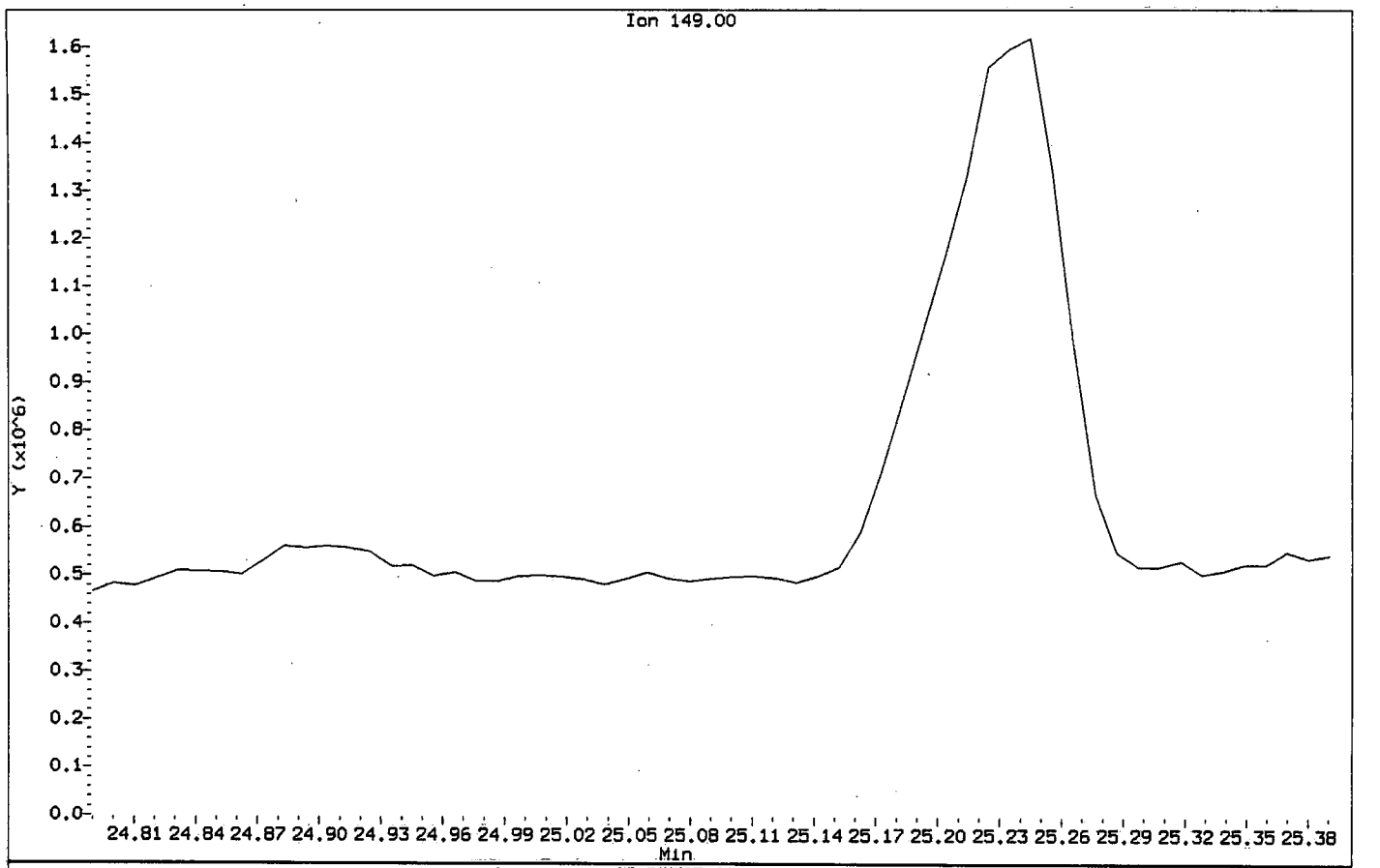


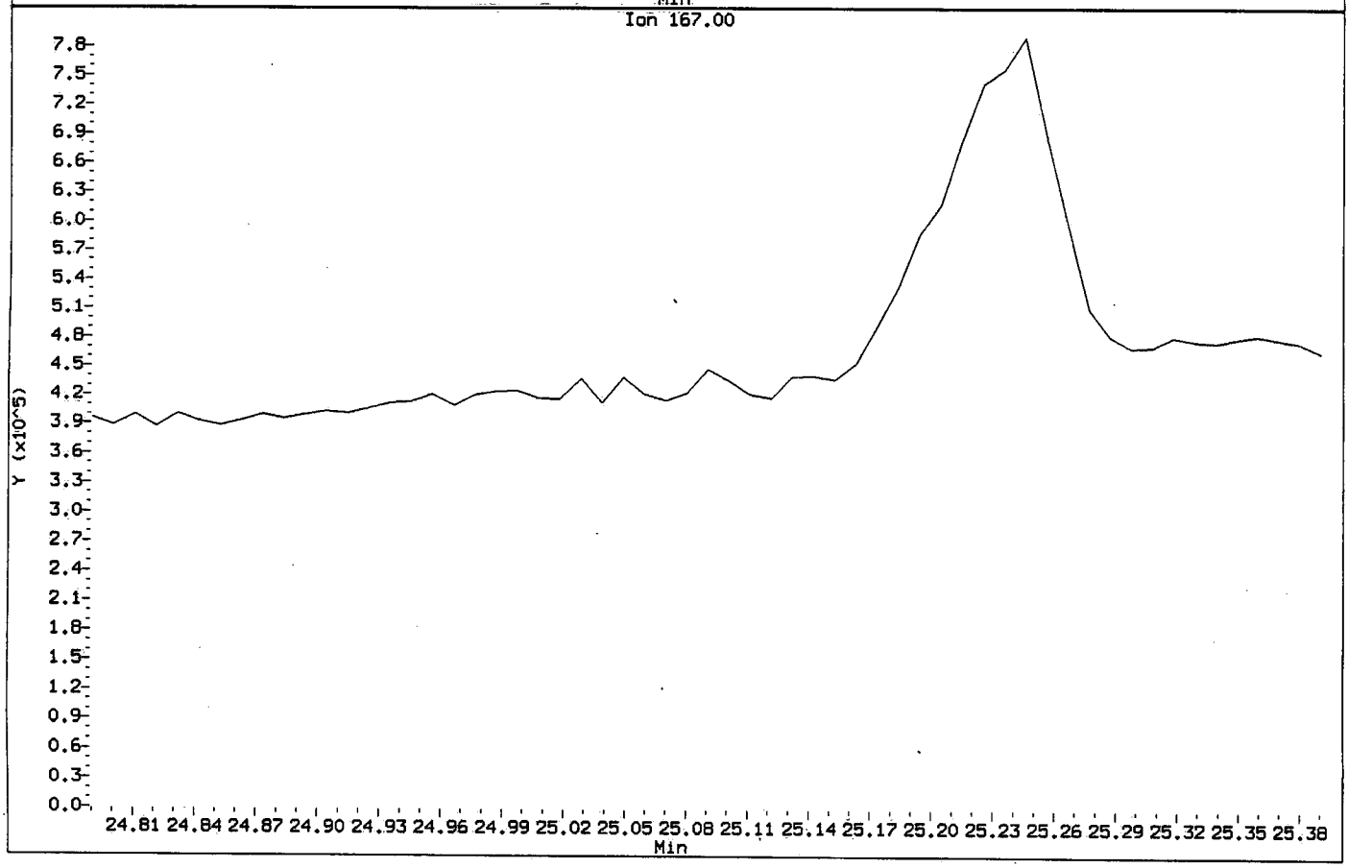




Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Bis(2-ethylhexyl)phthalate
CAS Number: 117-81-7

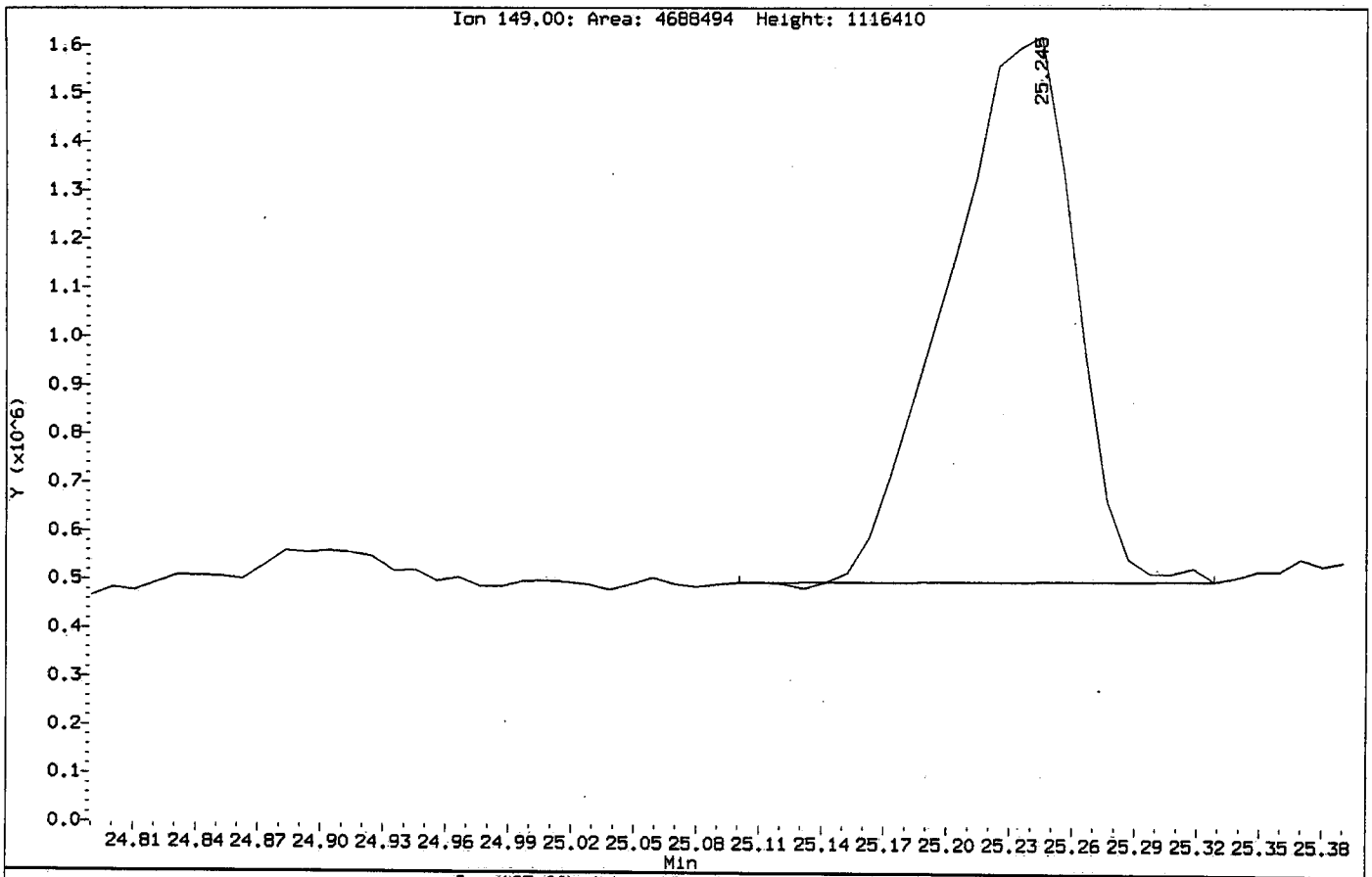


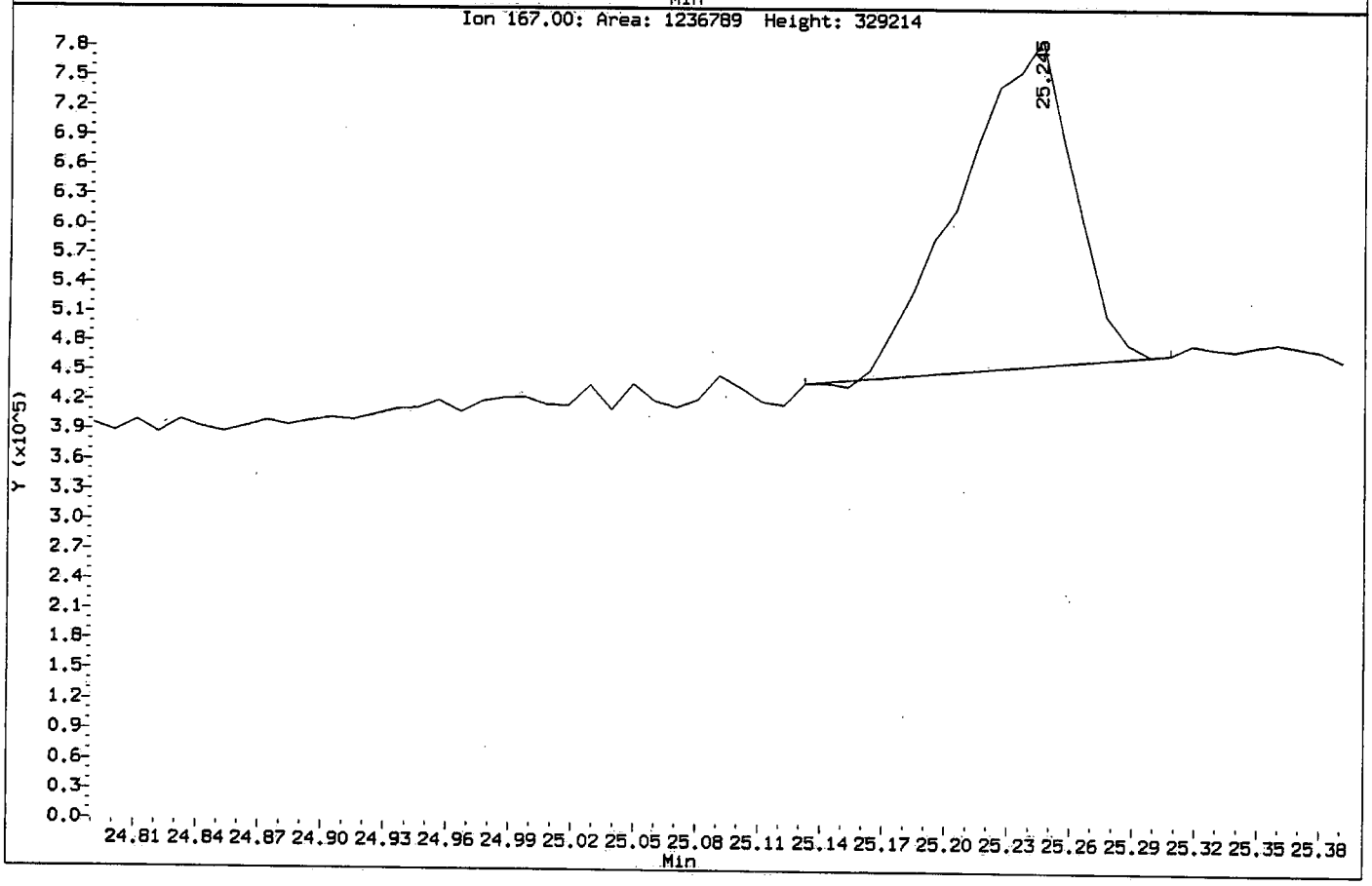


Missed peak KK 7/22/03
MNO 7/22/03

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

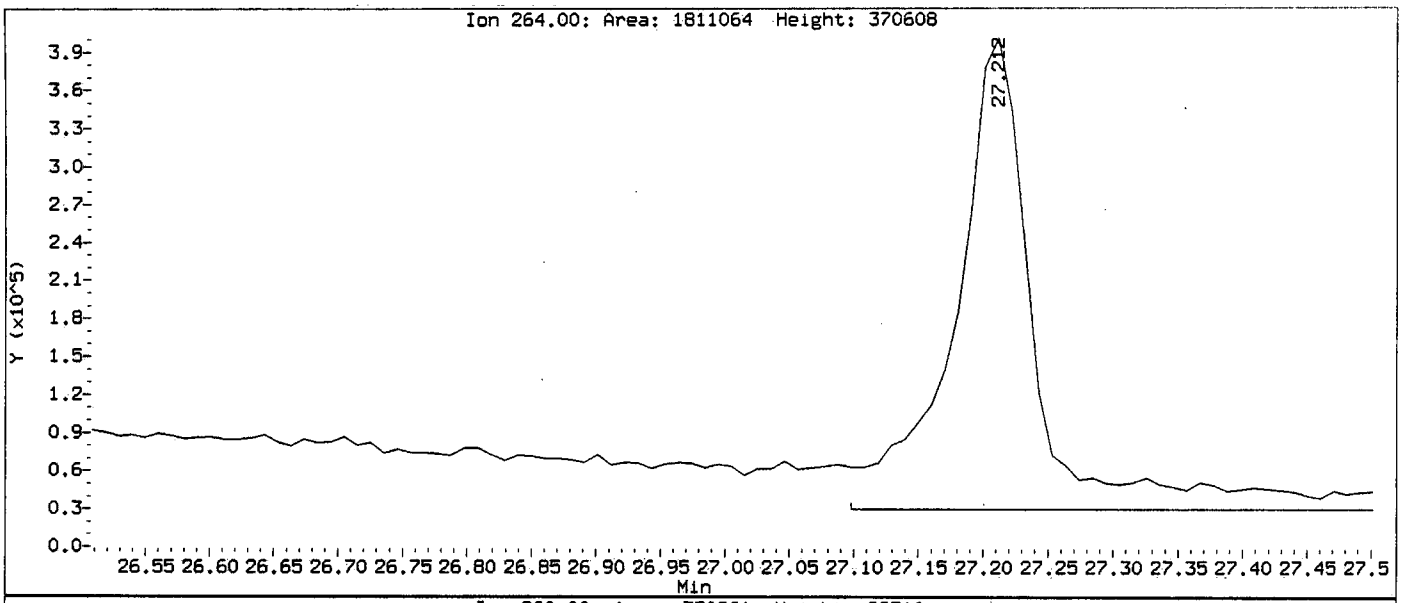
Compound: Bis(2-ethylhexyl)phthalate
CAS Number: 117-81-7

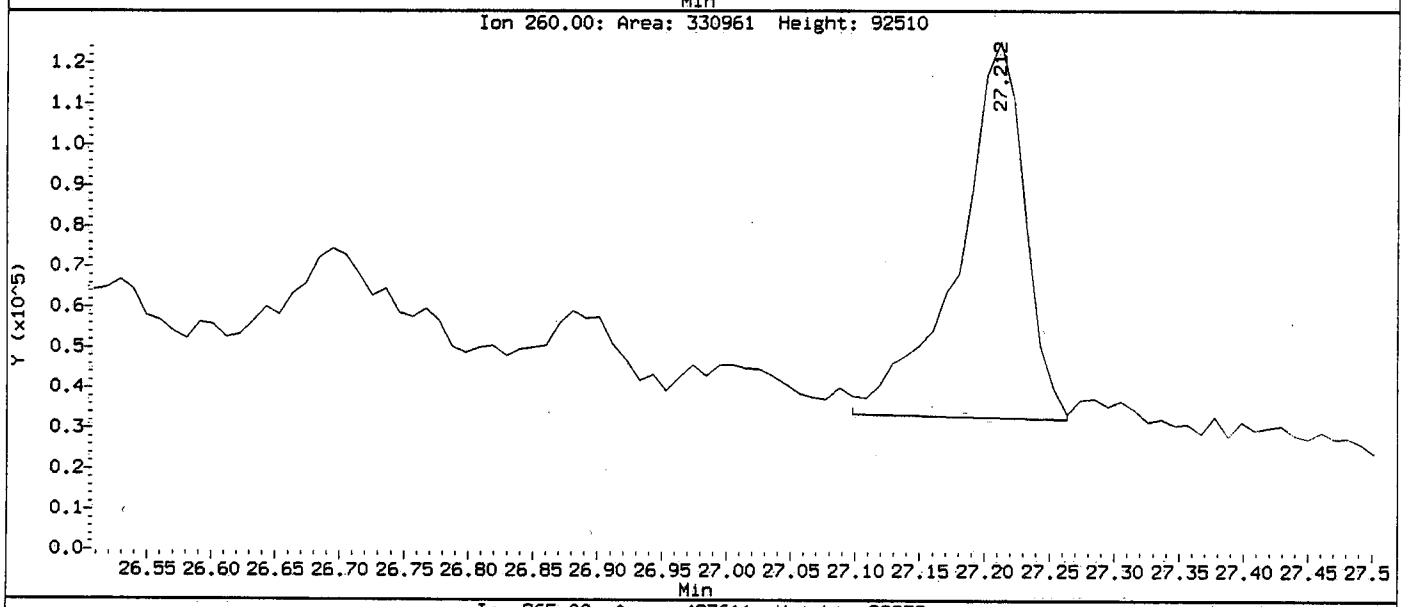


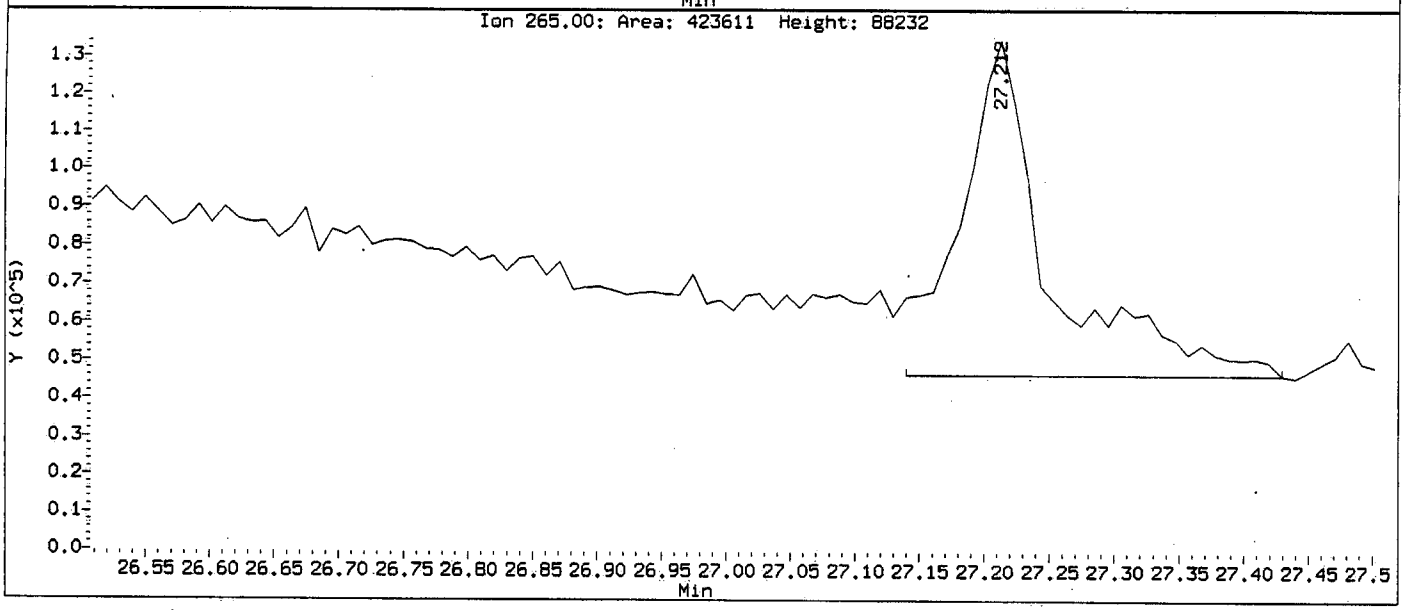


Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Perylene-d12
CAS Number: 1520-96-3



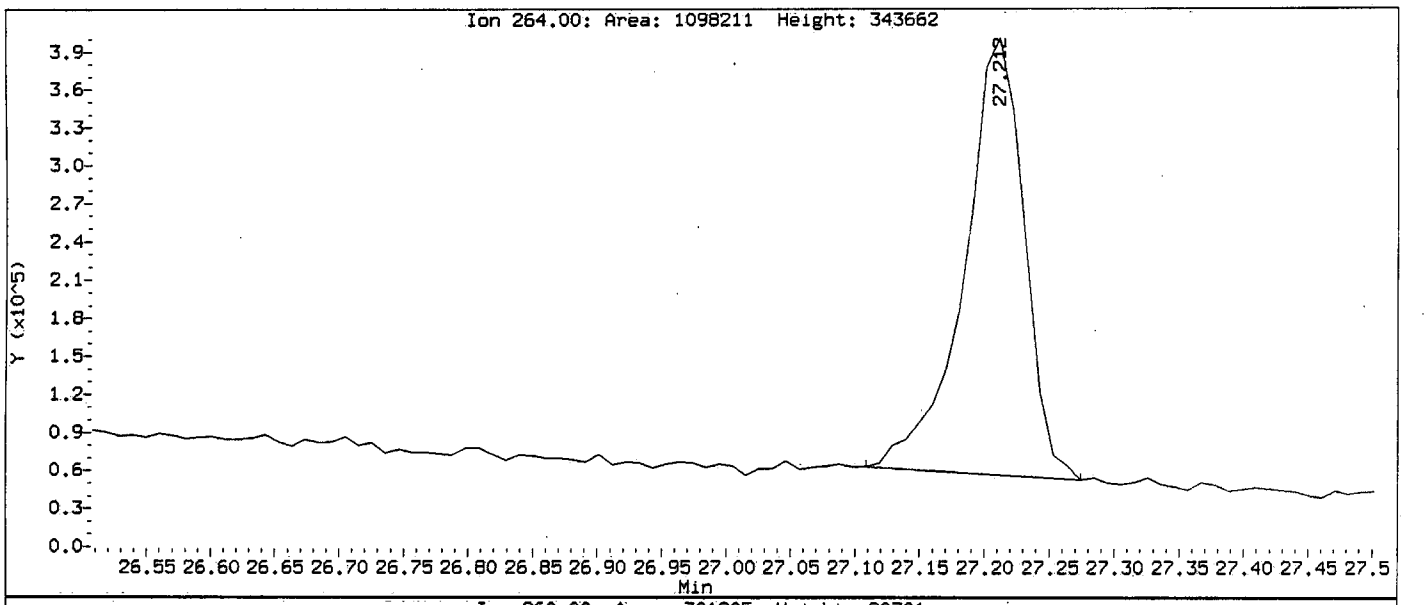


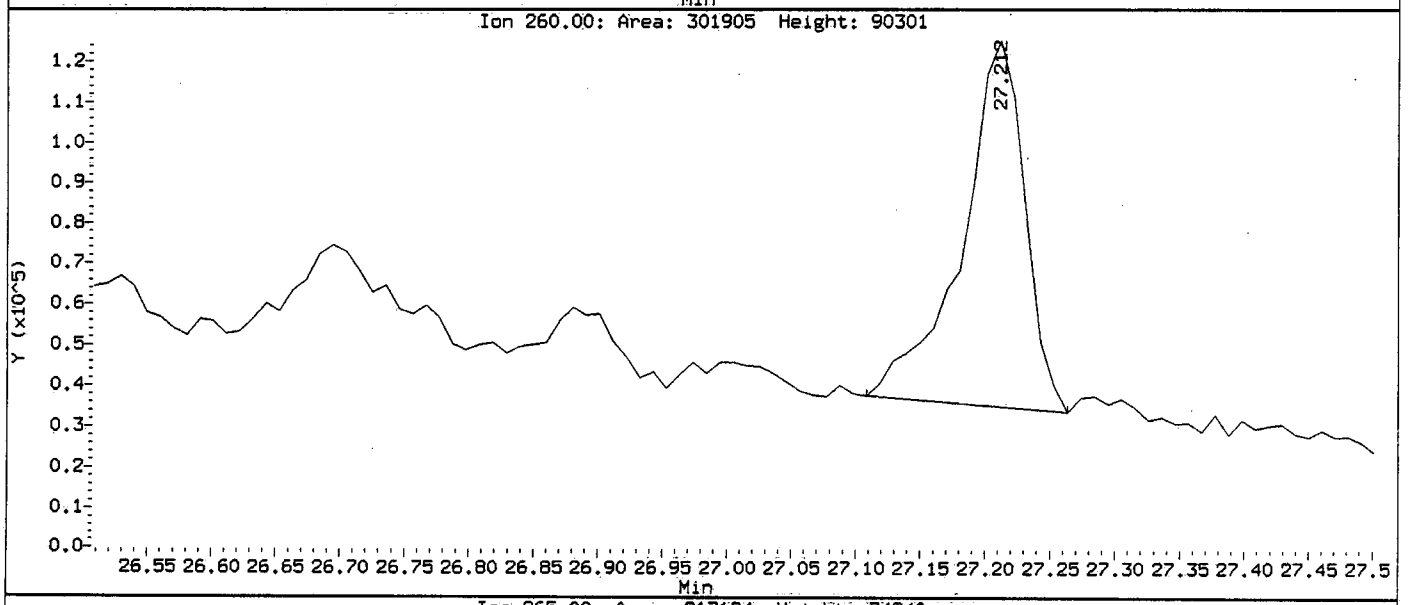


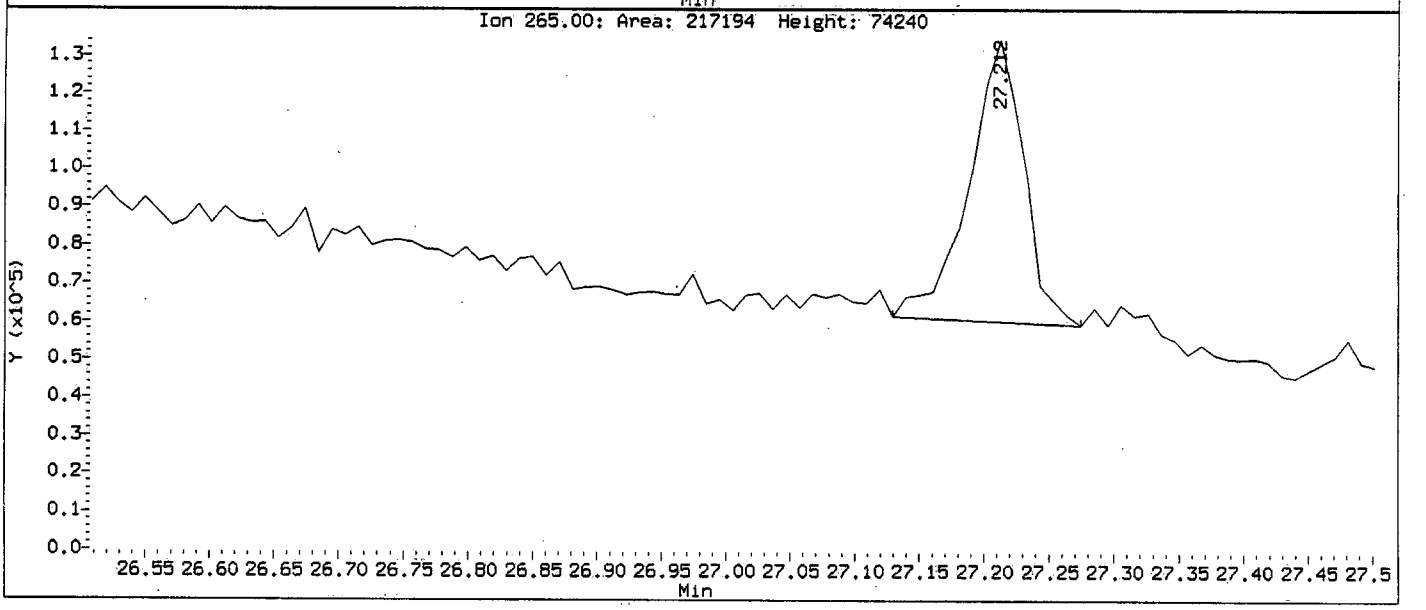
Rel C 7/19/03
correct peak endpoints
Kathy Kubit 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8351.d
Injection Date: 17-JUL-2003 18:02
Instrument: molly.i
Client Sample ID:

Compound: Perylene-d12
CAS Number: 1520-96-3







Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

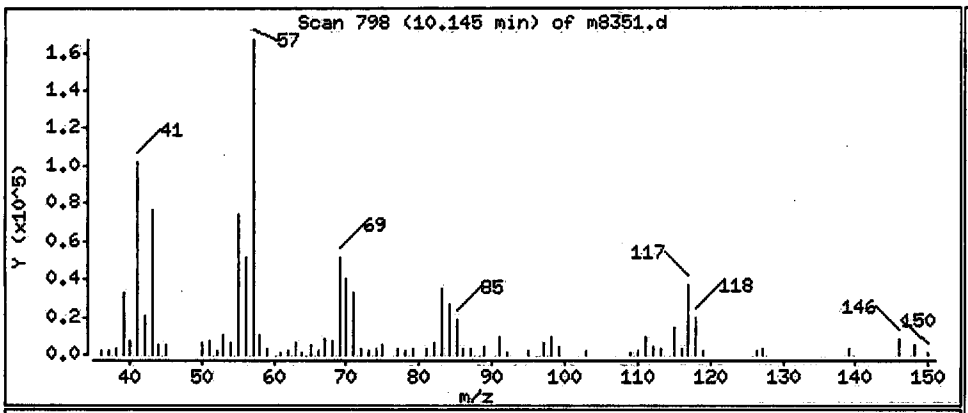
Operator: dce

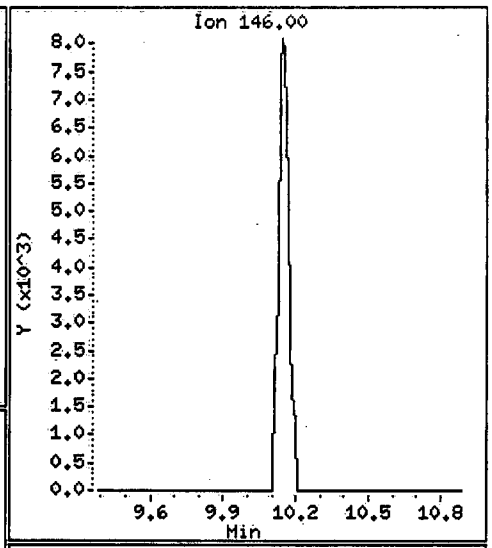
Column phase: ZB-5

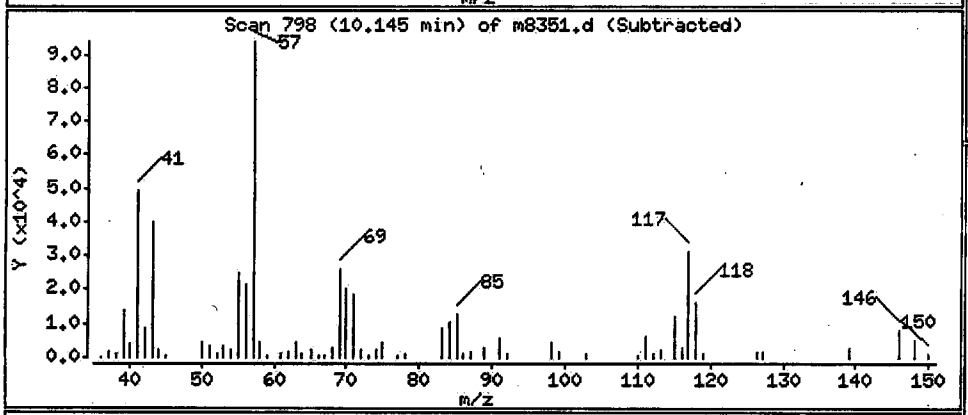
Column diameter: 0.25

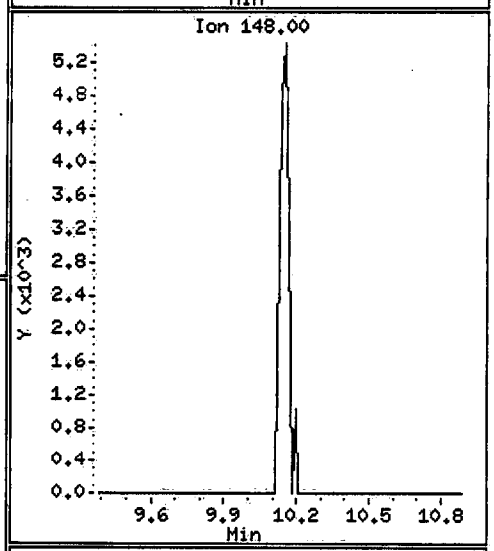
14 1,2-Dichlorobenzene

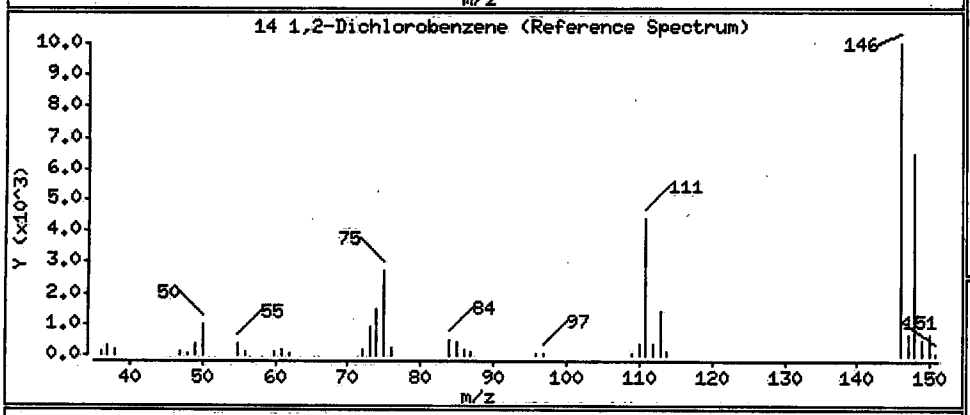
Concentration: 4.80 ug/L

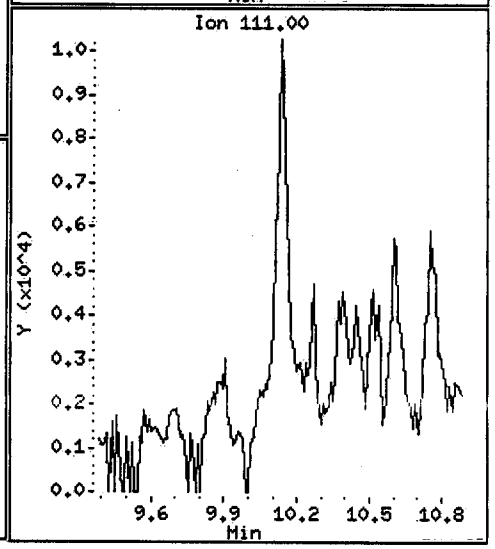


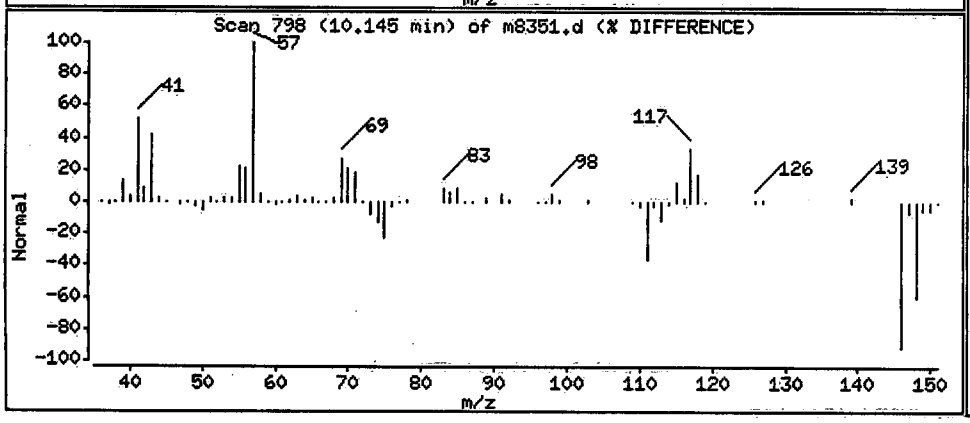












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

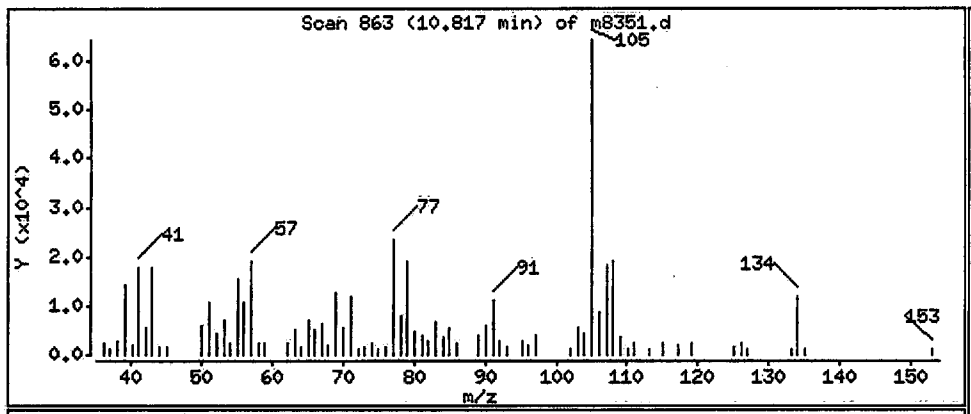
Operator: dce

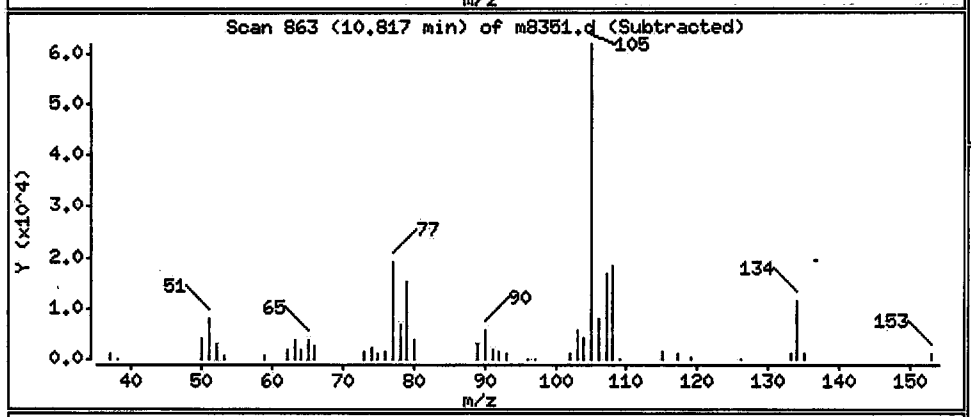
Column phase: ZB-5

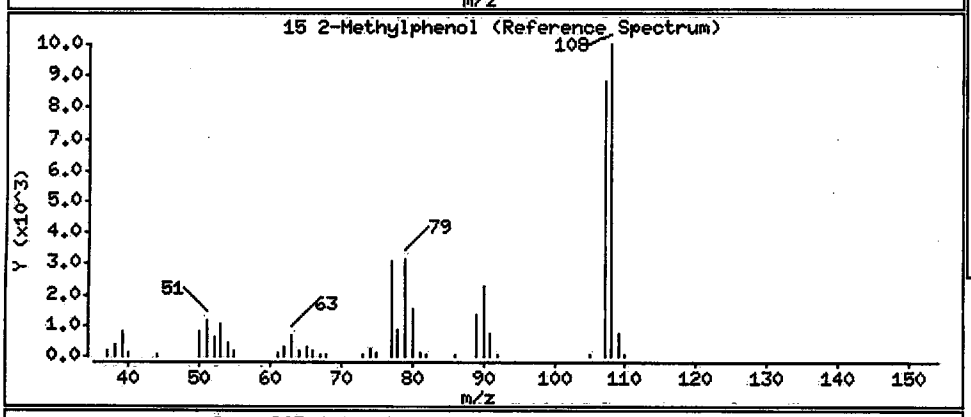
Column diameter: 0.25

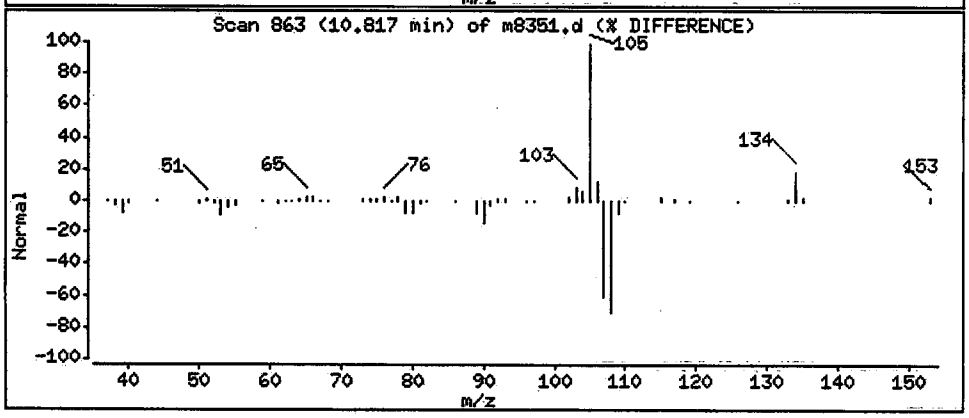
15 2-Methylphenol

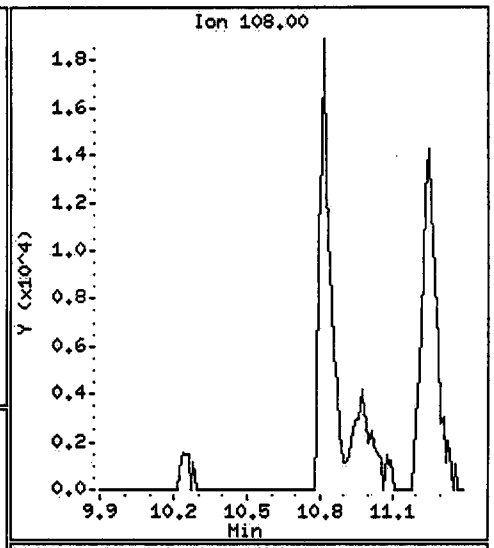
Concentration: 11.8 ug/L

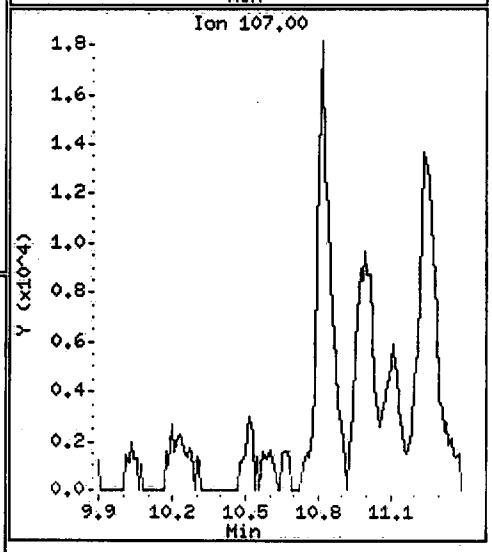












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

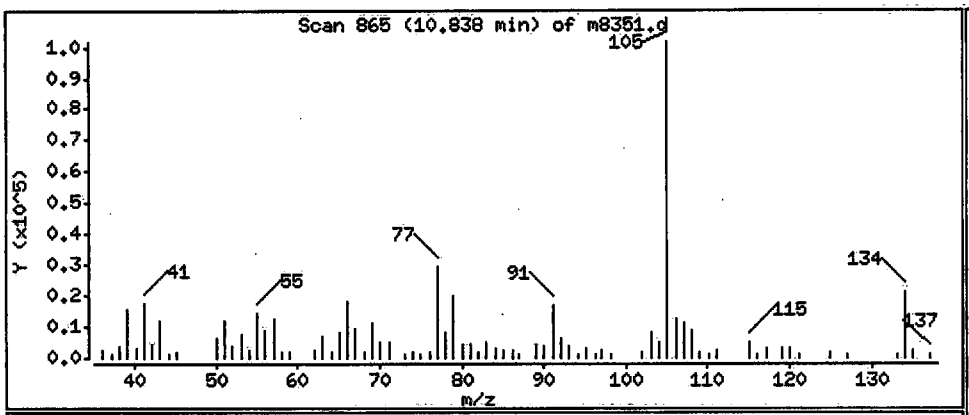
Operator: dce

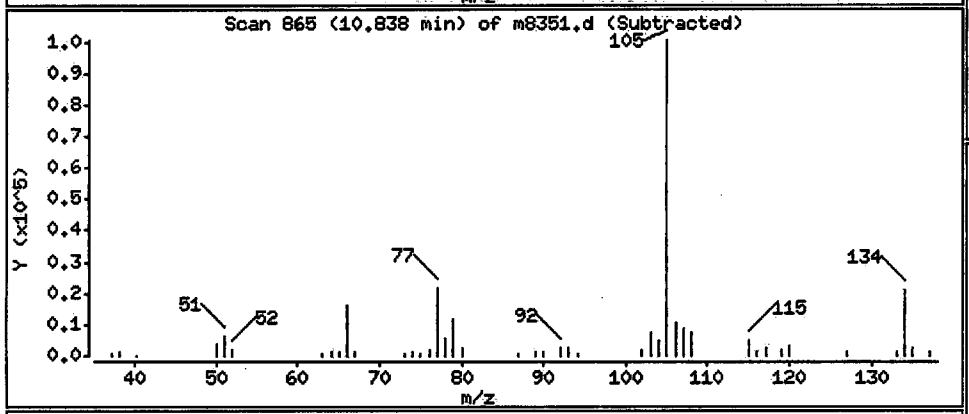
Column phase: ZB-5

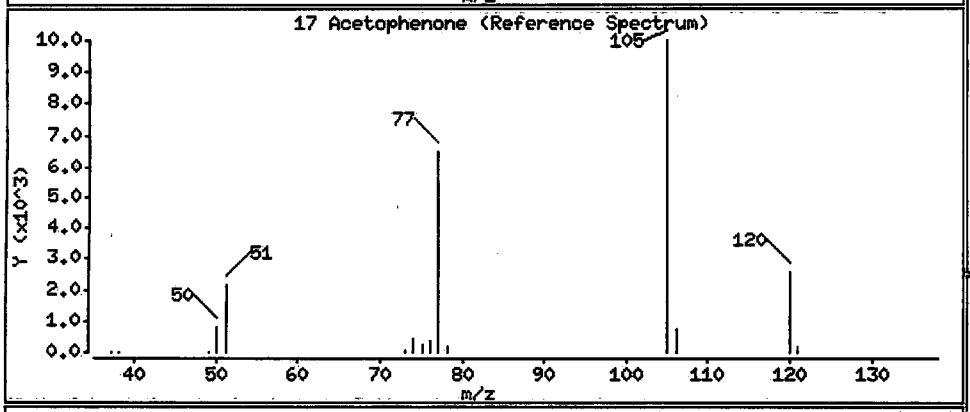
Column diameter: 0.25

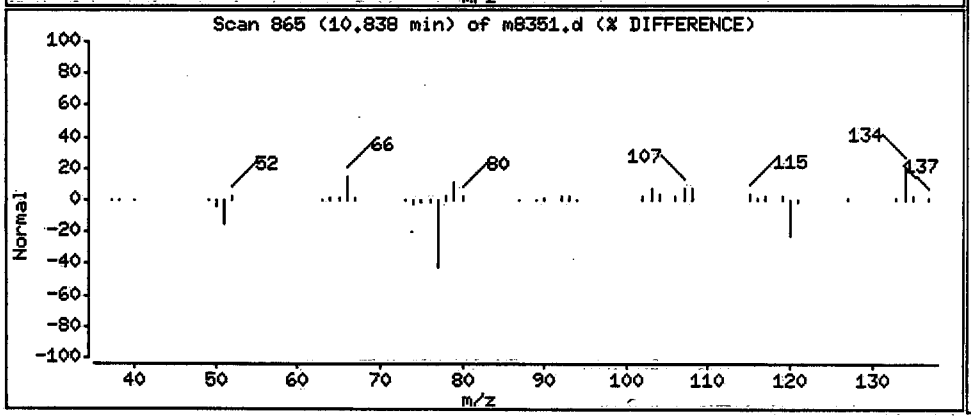
17 Acetophenone

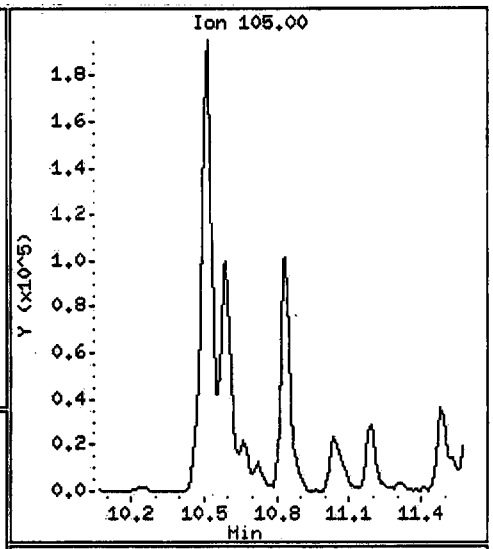
Concentration: 35.3 ug/L

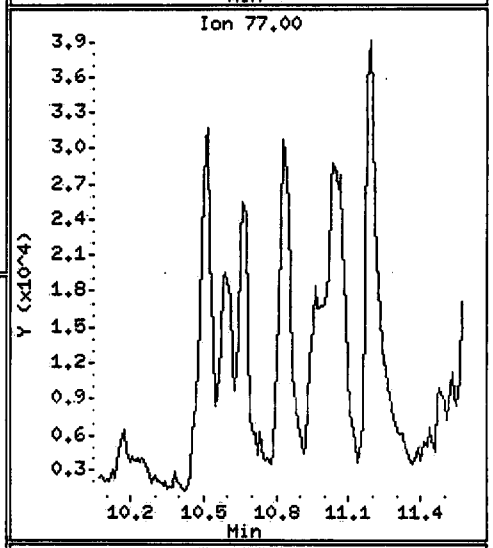


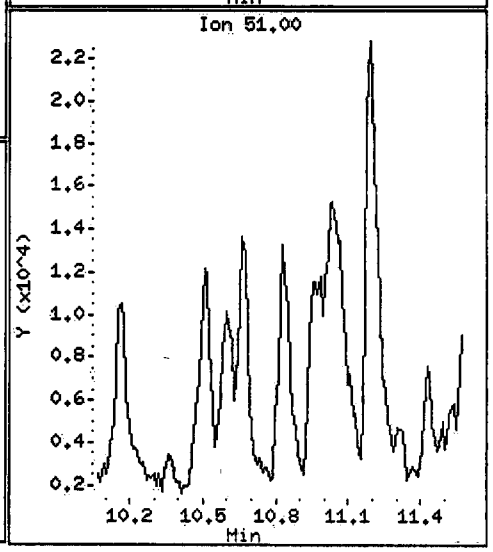












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

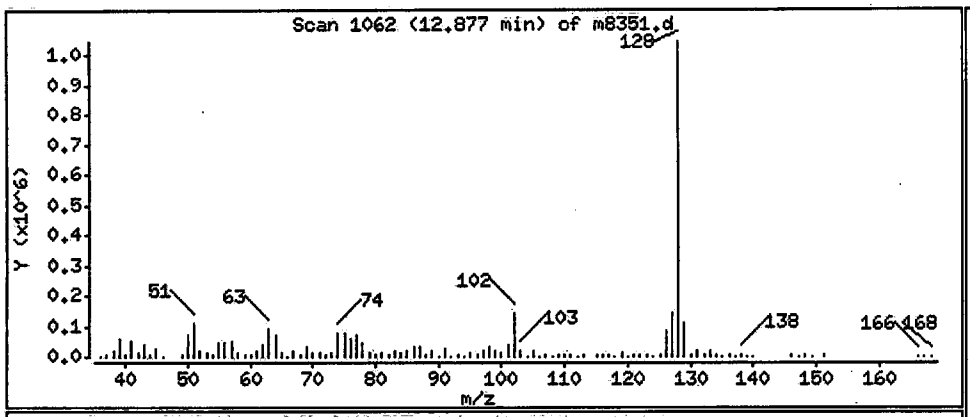
Operator: dce

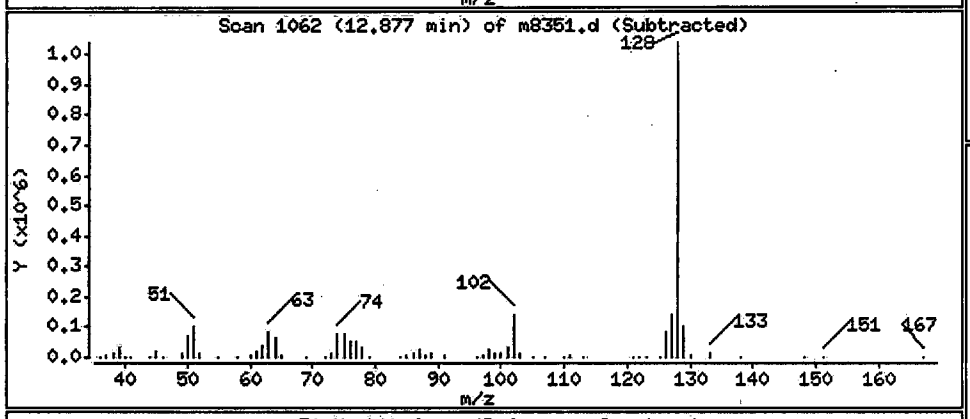
Column phase: ZB-5

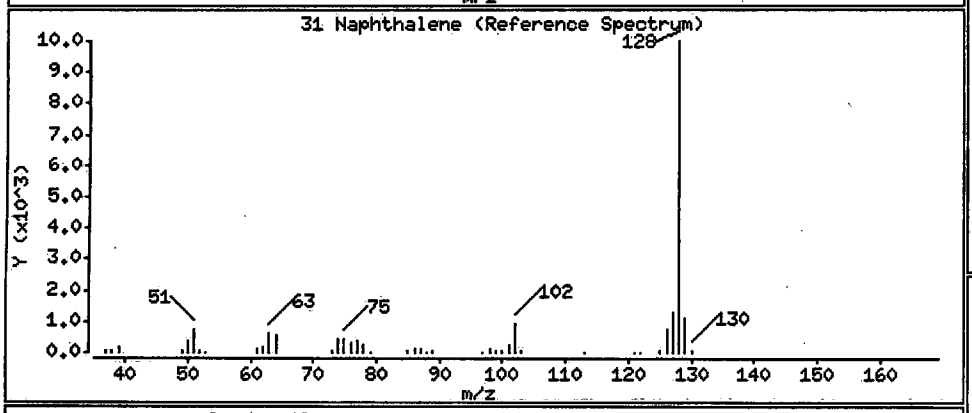
Column diameter: 0.25

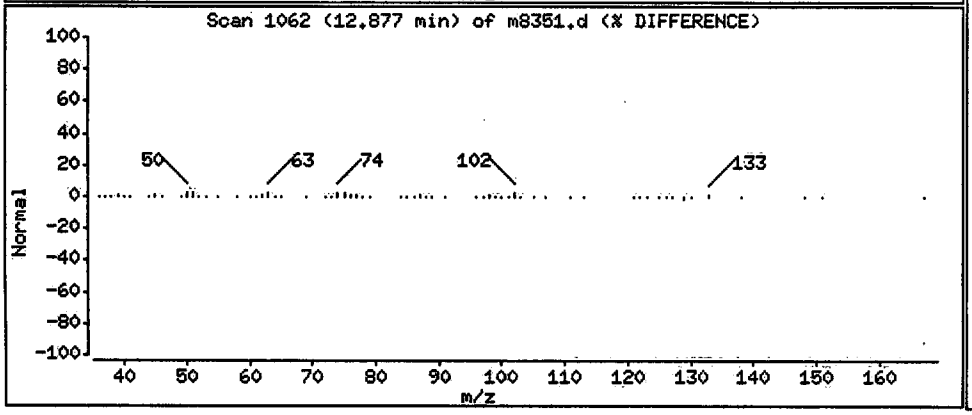
31 Naphthalene

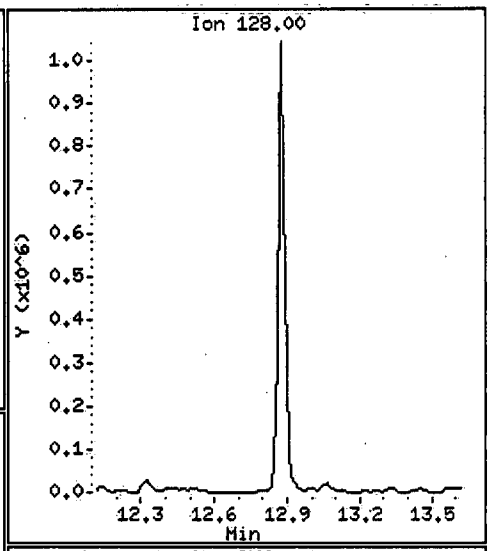
Concentration: 125 ug/L

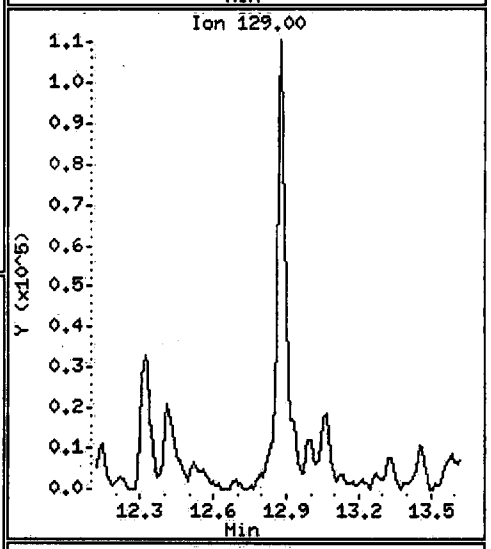


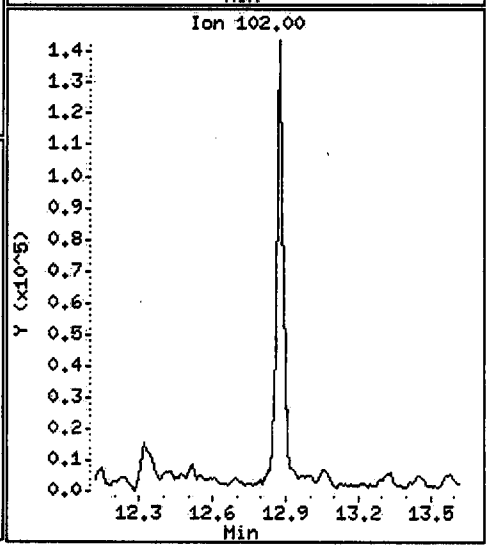












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

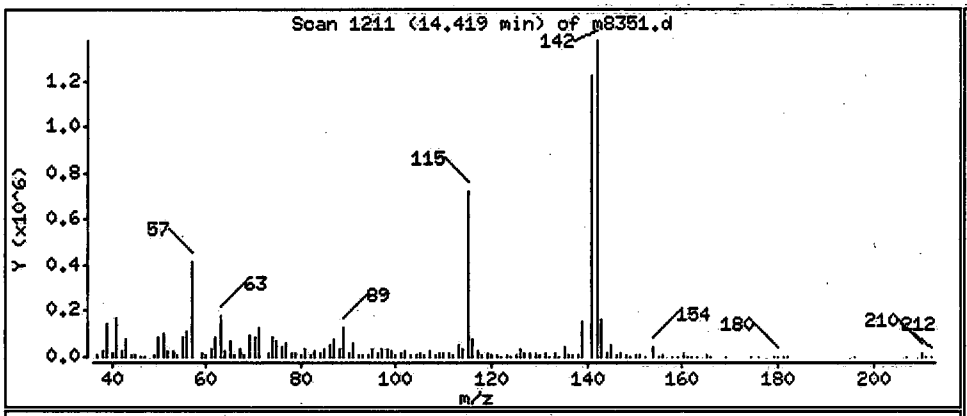
Operator: dce

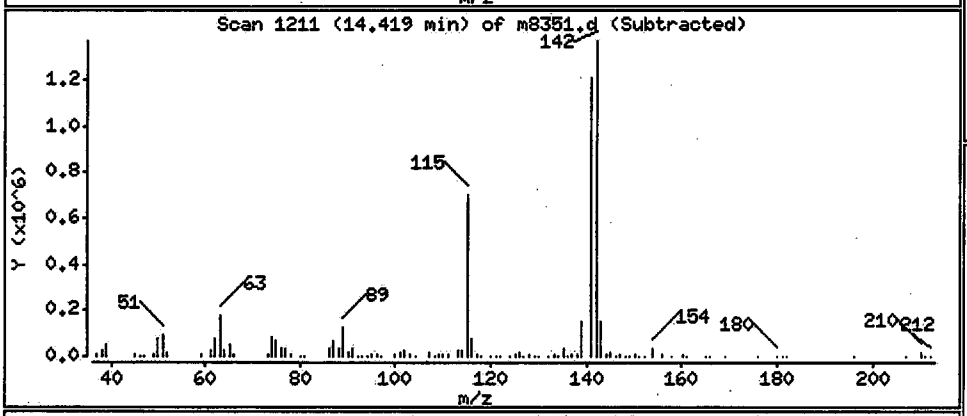
Column phase: ZB-5

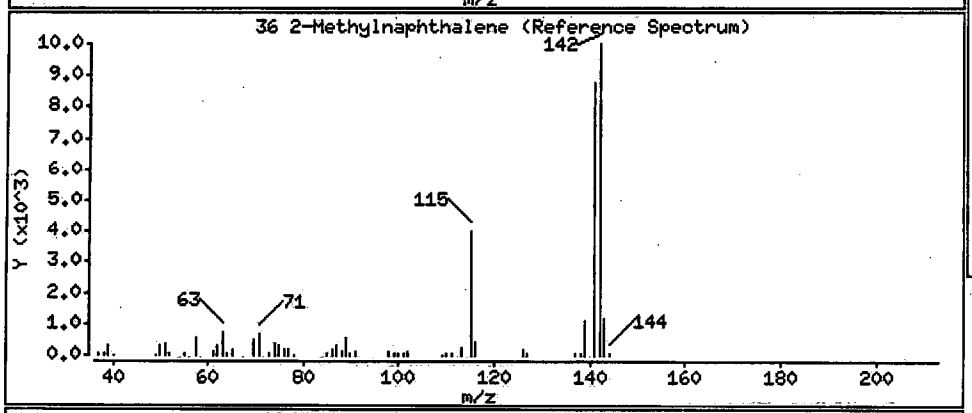
Column diameter: 0.25

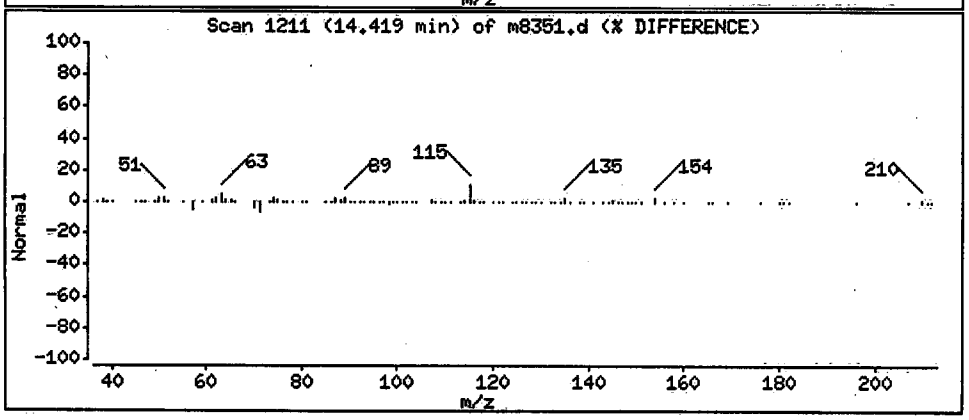
36 2-Methylnaphthalene

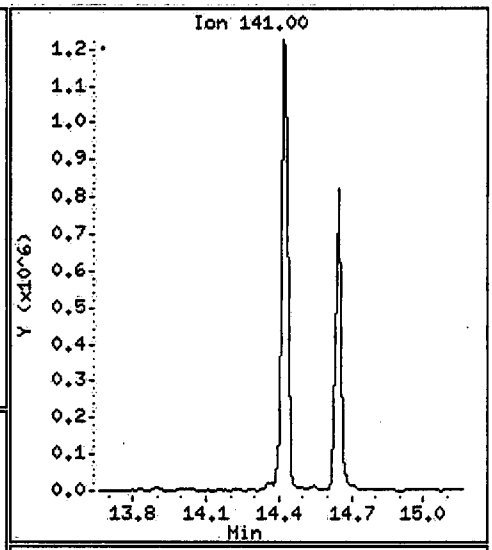
Concentration: 228 ug/L

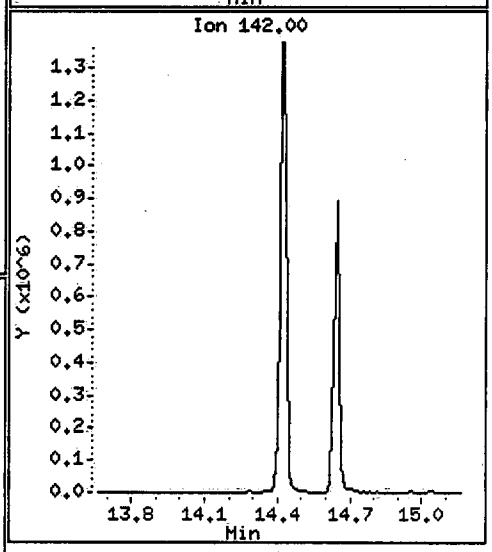












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

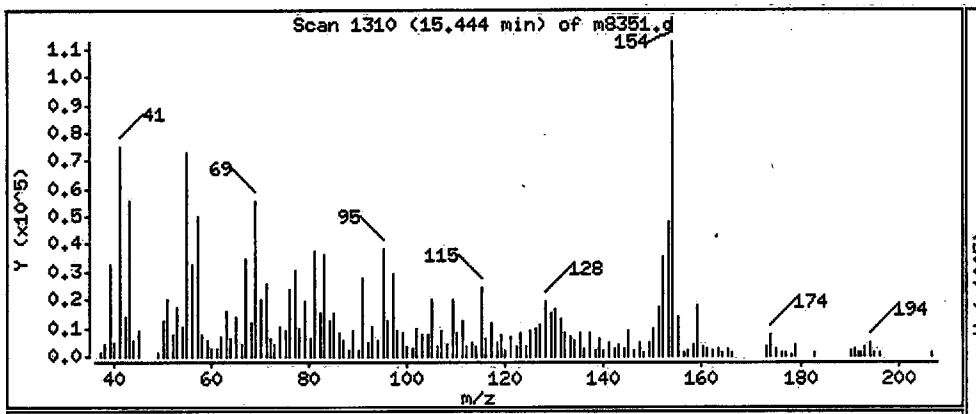
Operator: dce

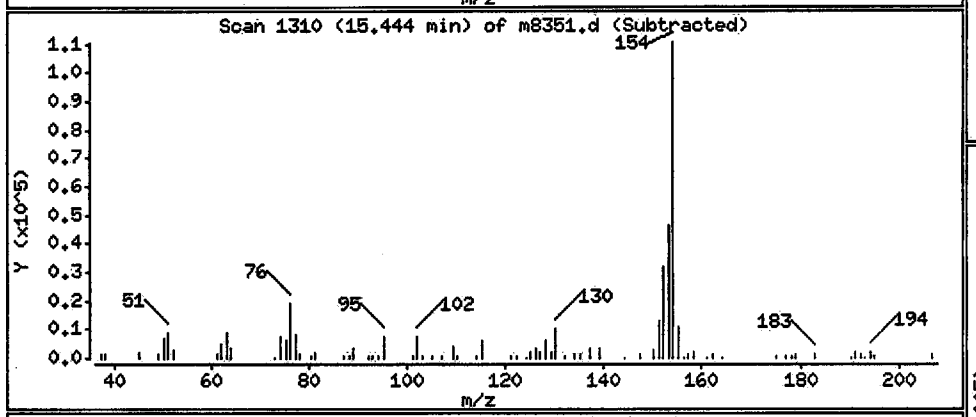
Column phase: ZB-5

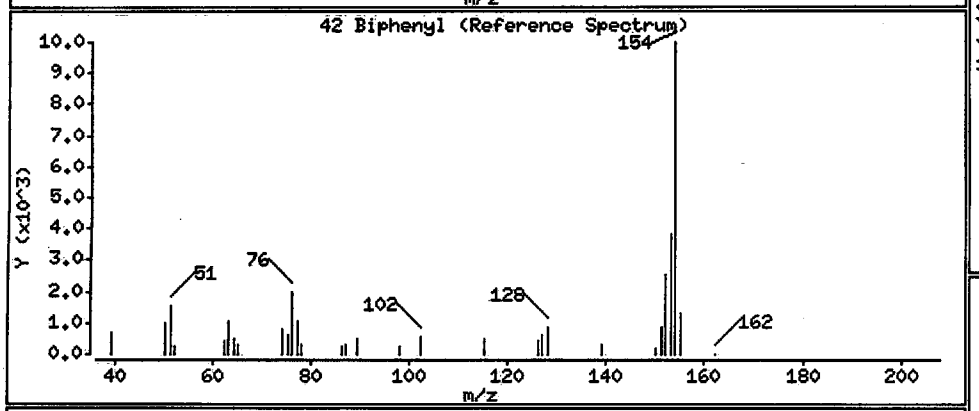
Column diameter: 0.25

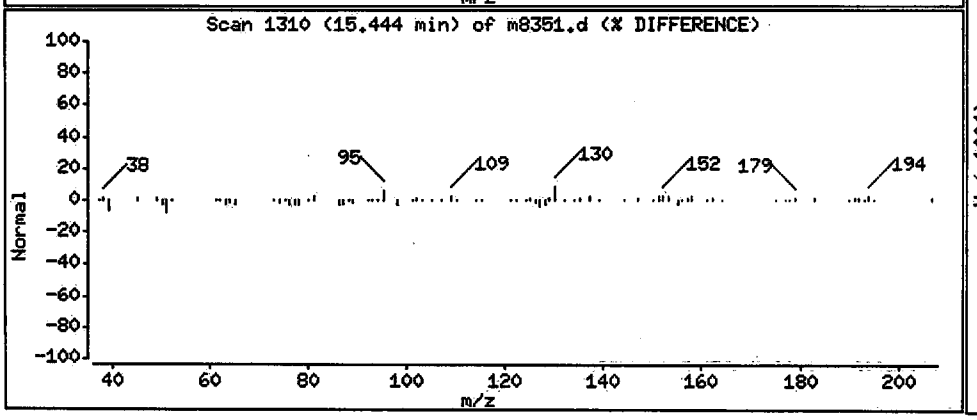
42 Biphenyl

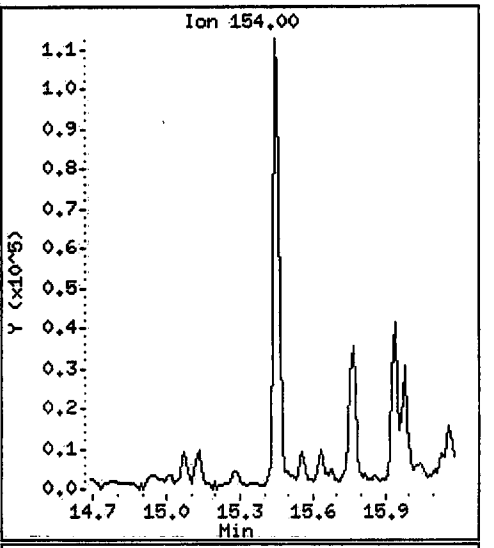
Concentration: 9.06 ug/L

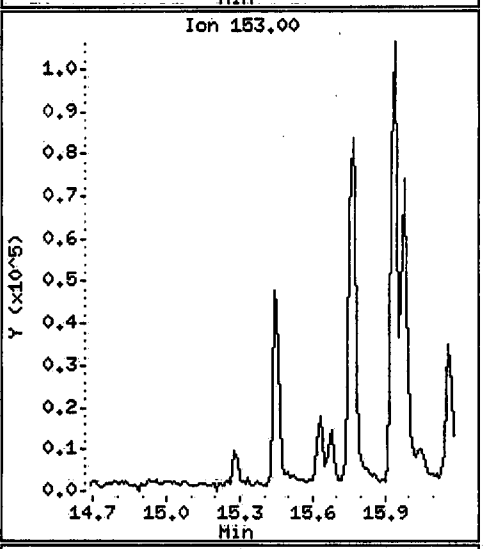


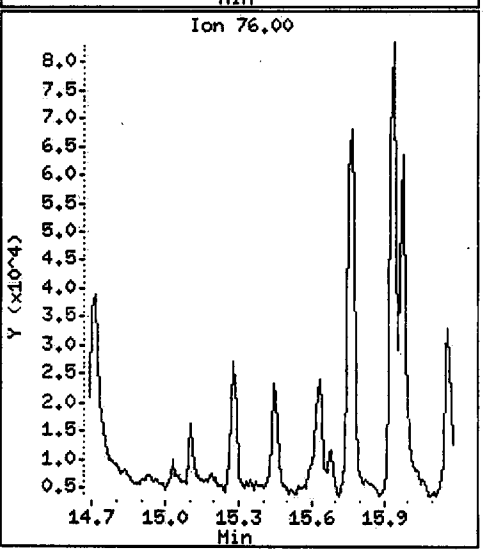












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

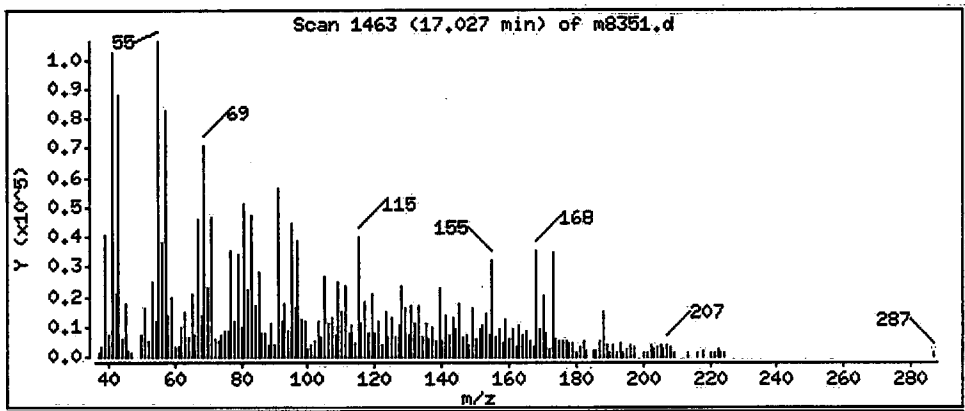
Operator: dce

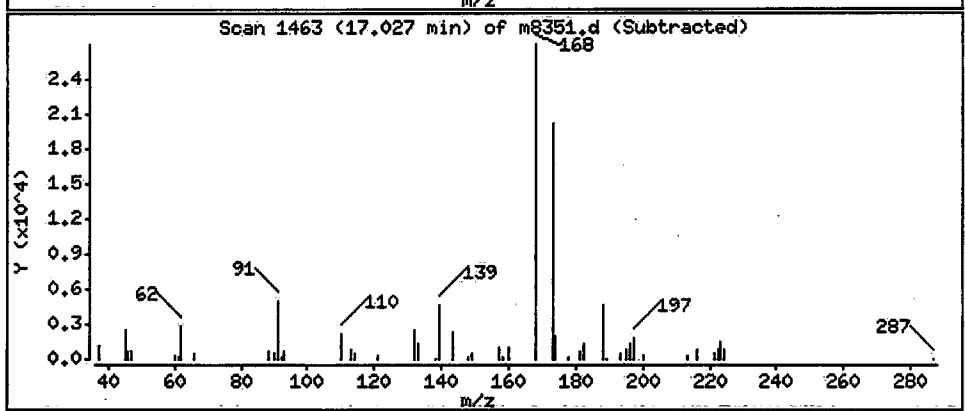
Column phase: ZB-5

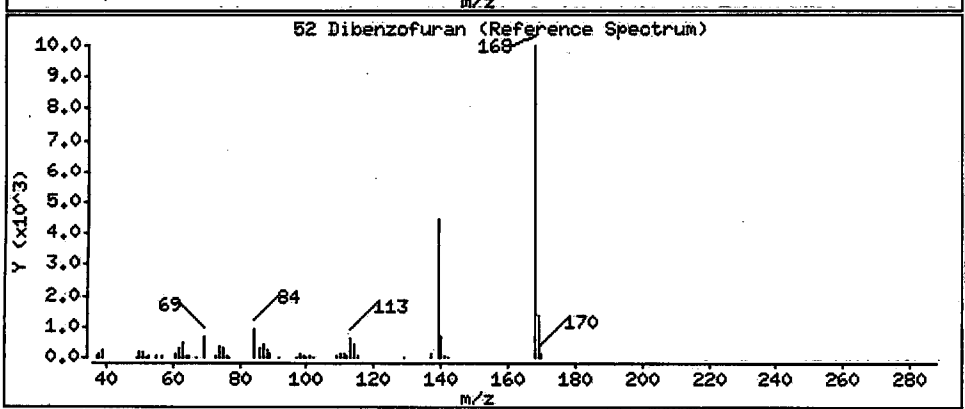
Column diameter: 0.25

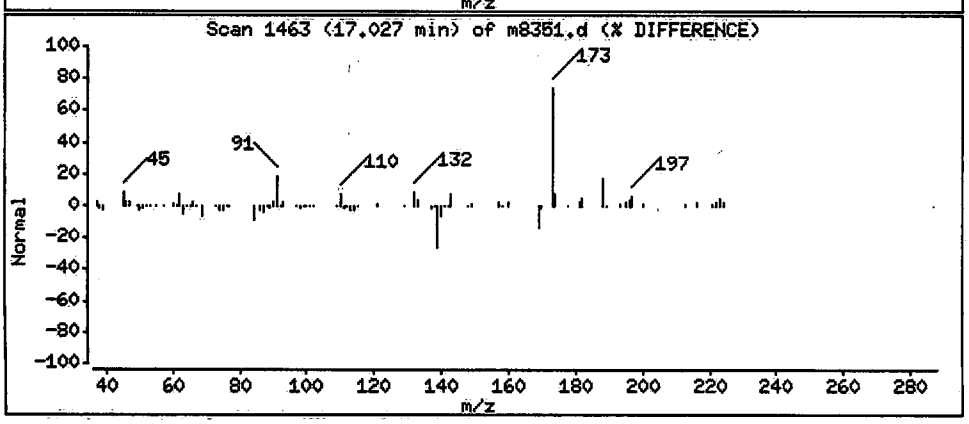
52 Dibenzofuran

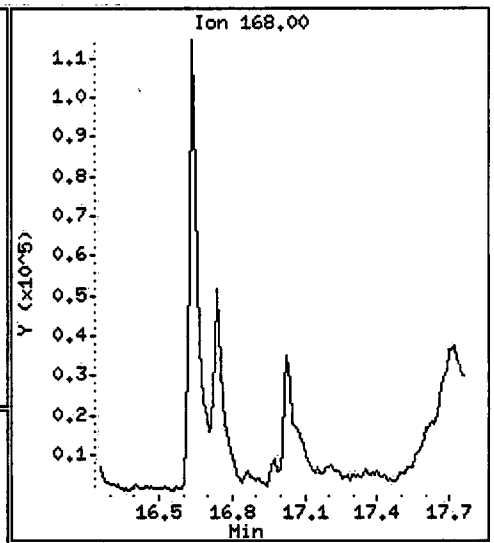
Concentration: 4.64 ug/L

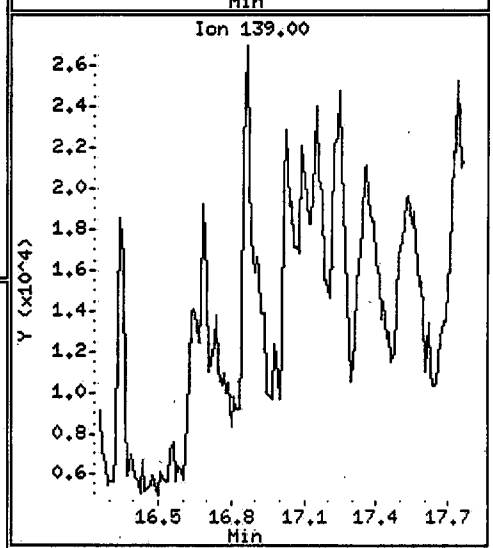












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

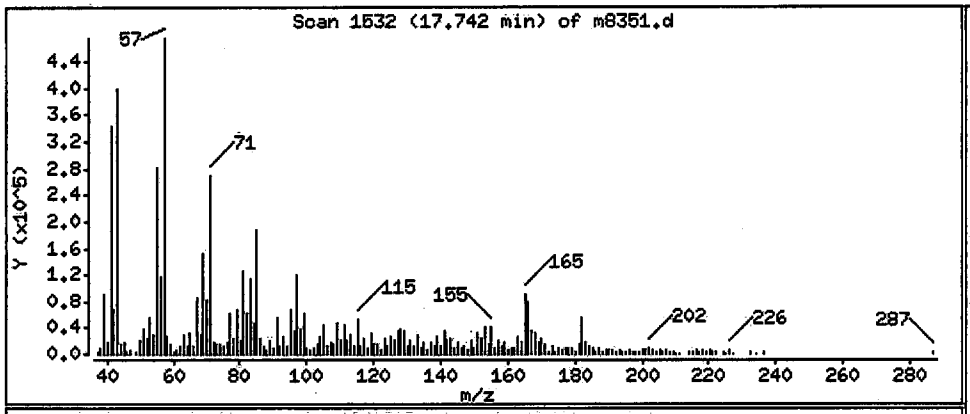
Operator: dce

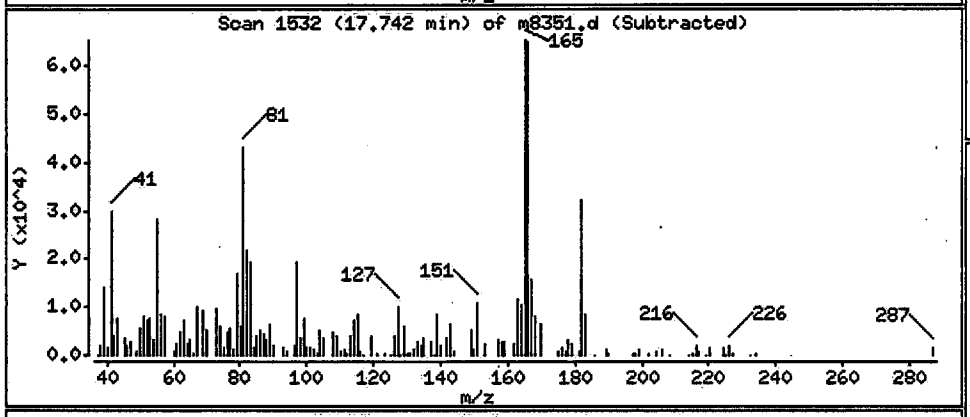
Column phase: ZB-5

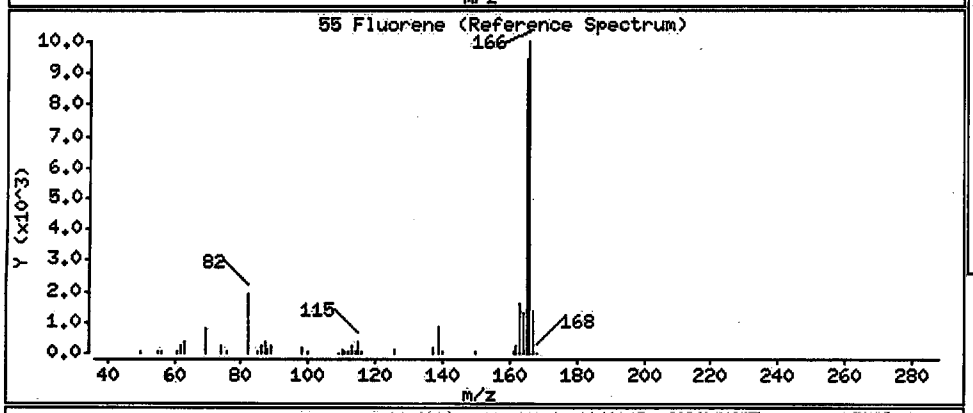
Column diameter: 0.25

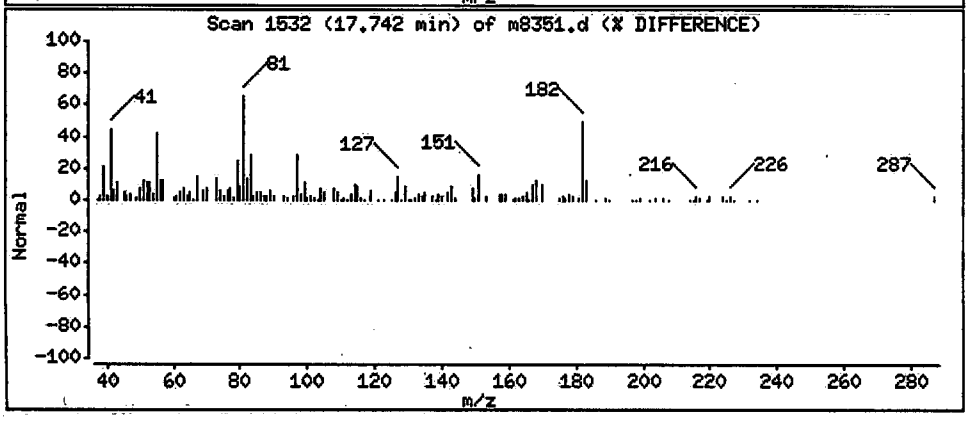
55 Fluorene

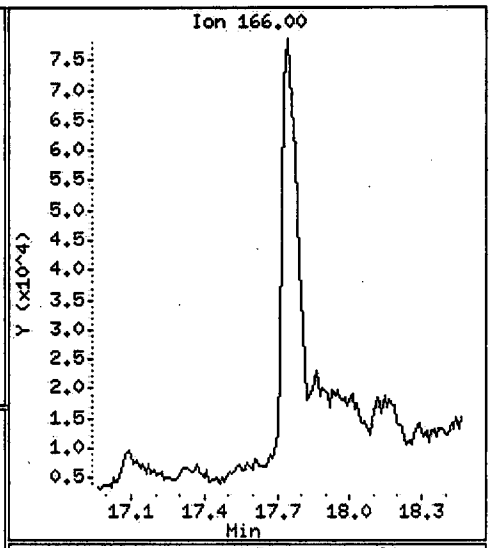
Concentration: 15.0 ug/L

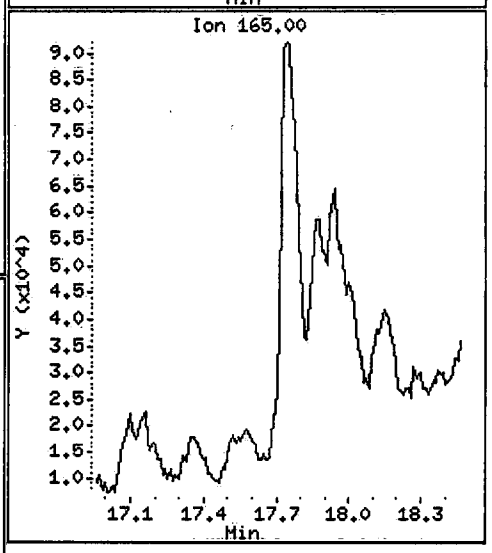












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

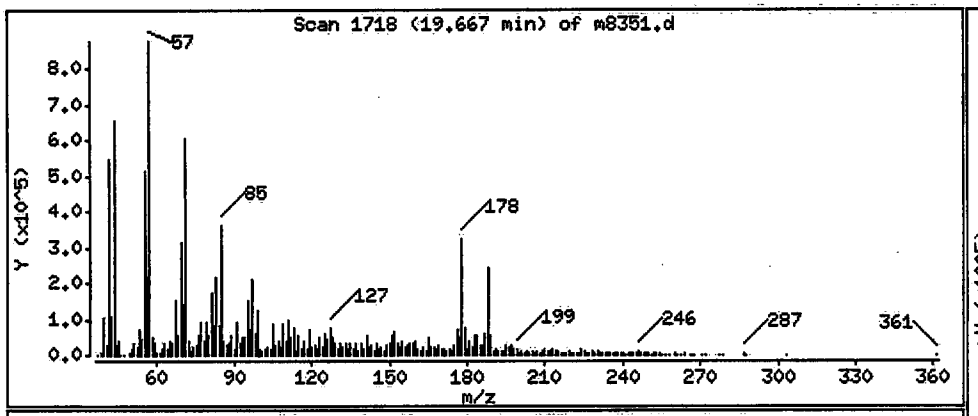
Operator: dce

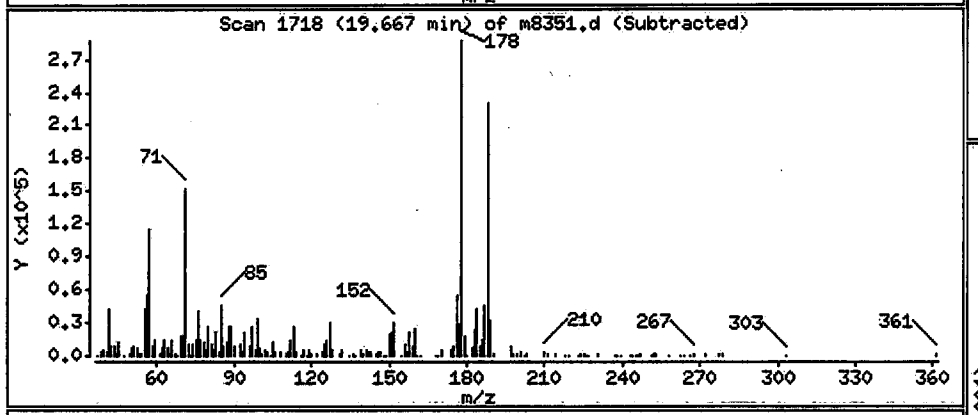
Column phase: ZB-5

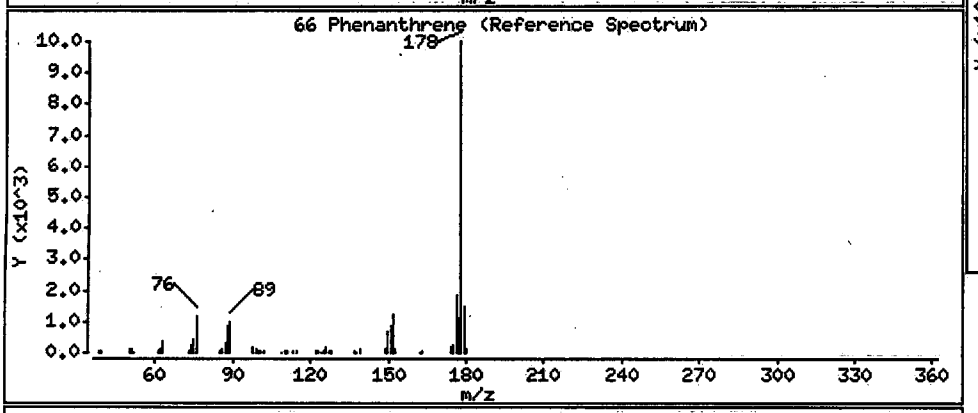
Column diameter: 0.25

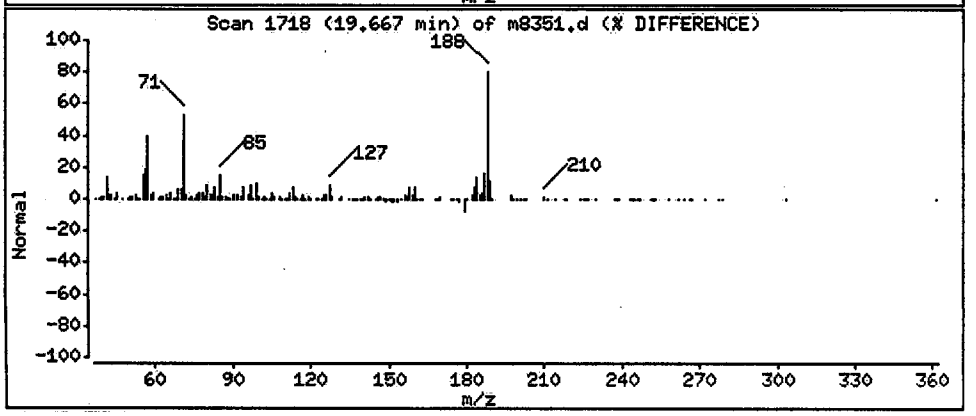
66 Phenanthrene

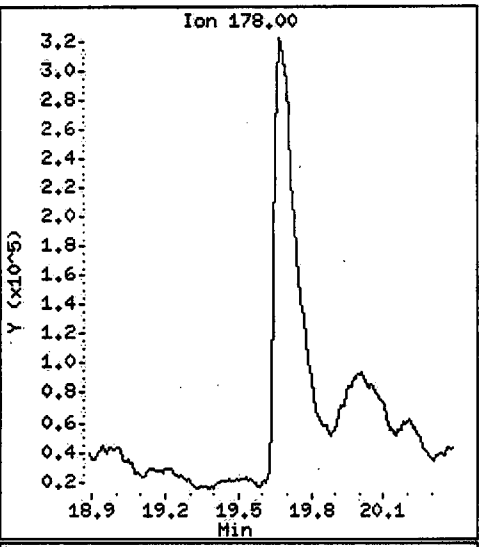
Concentration: 42.0 ug/L

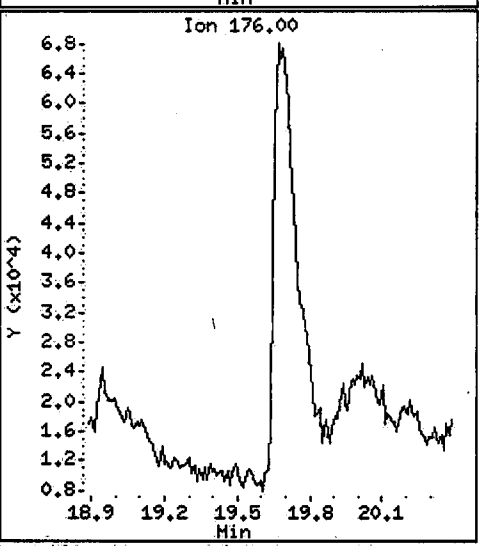












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

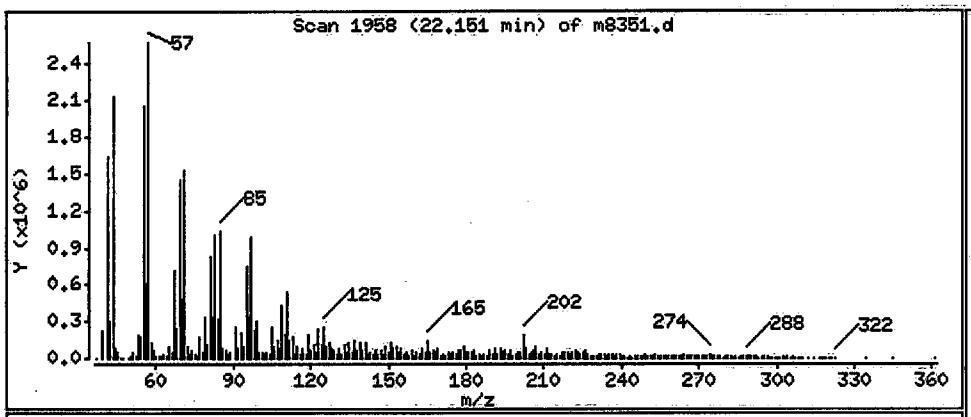
Operator: dce

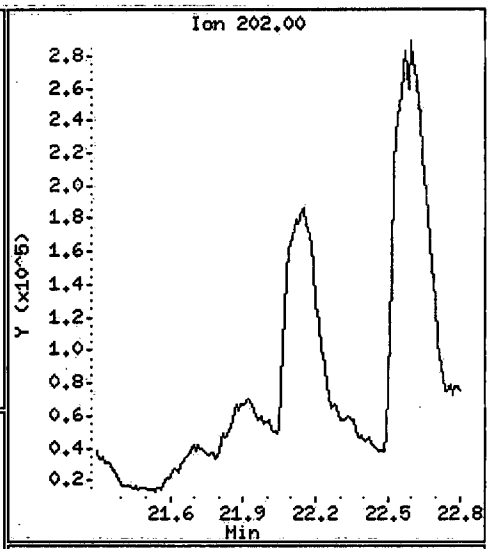
Column phase: ZB-5

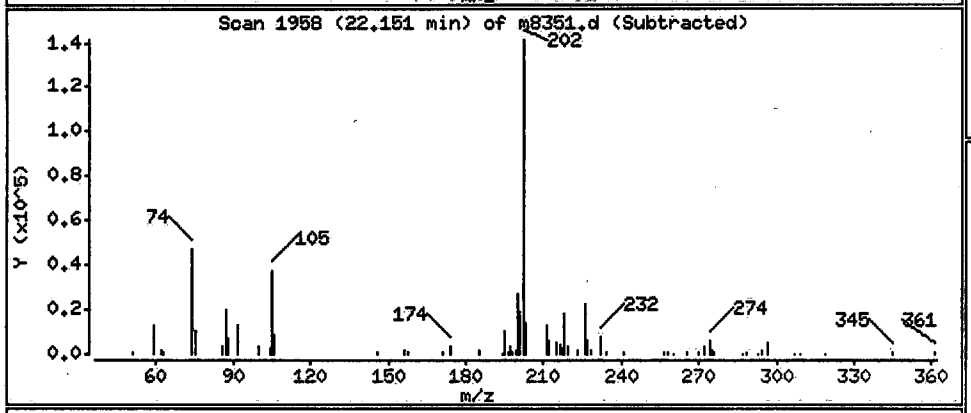
Column diameter: 0.25

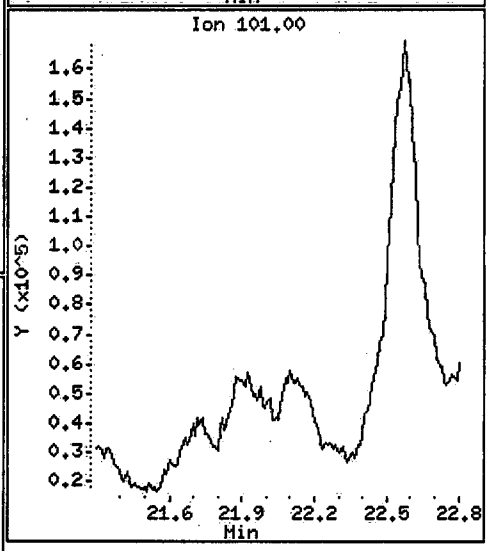
70 Fluoranthene

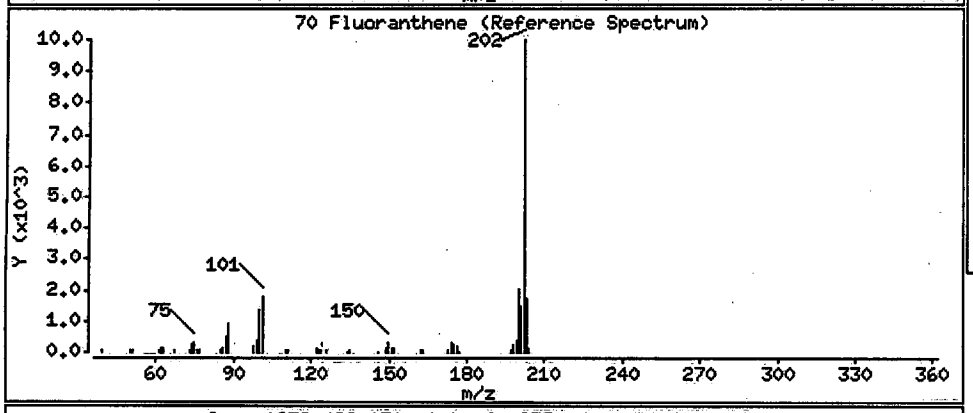
Concentration: 26.4 ug/L

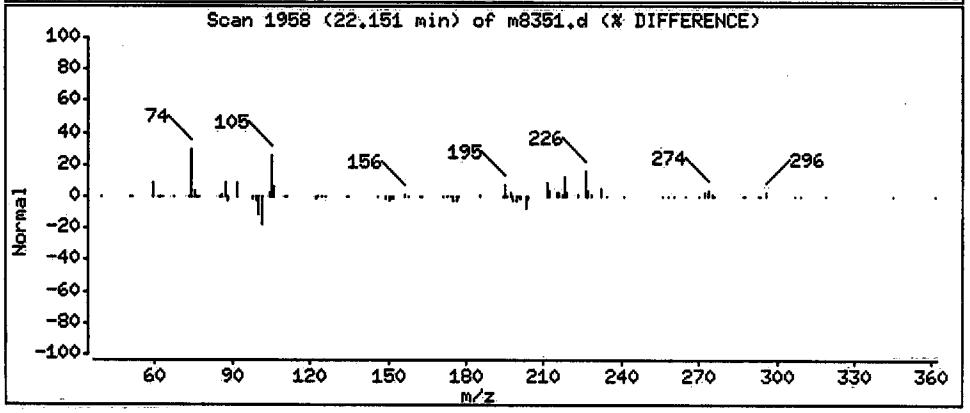












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

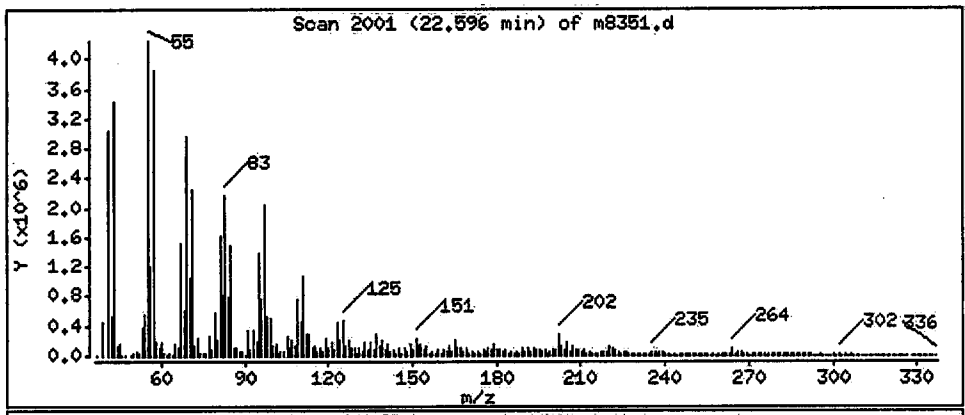
Operator: dce

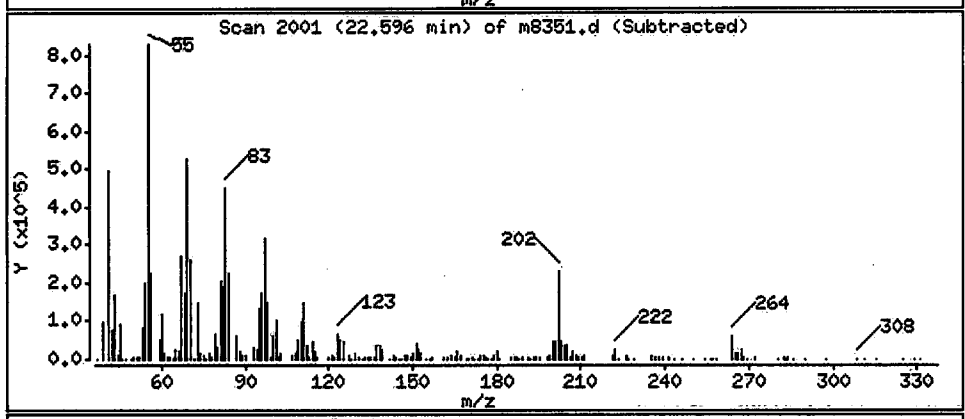
Column phase: ZB-5

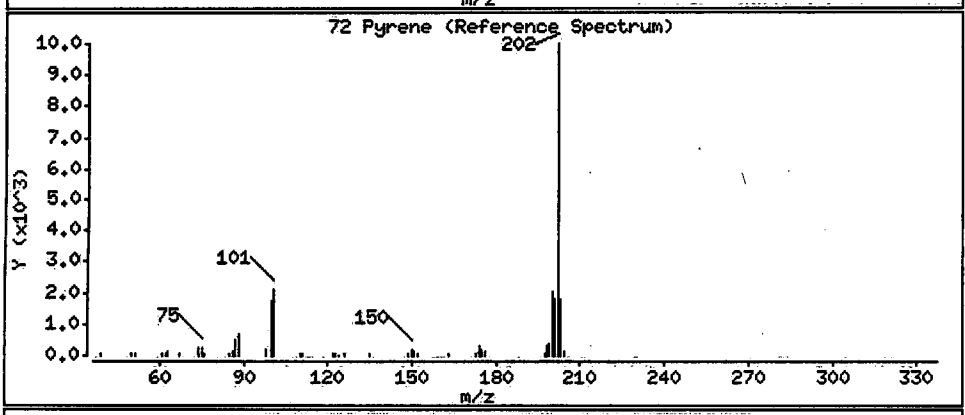
Column diameter: 0.25

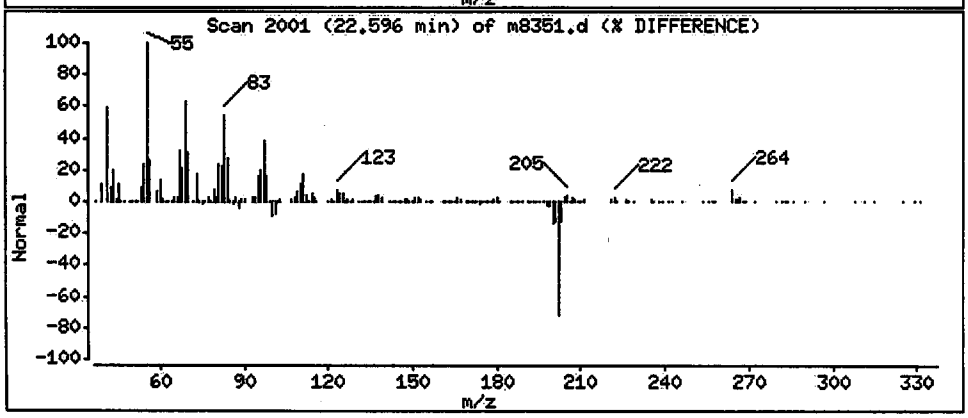
72 Pyrene

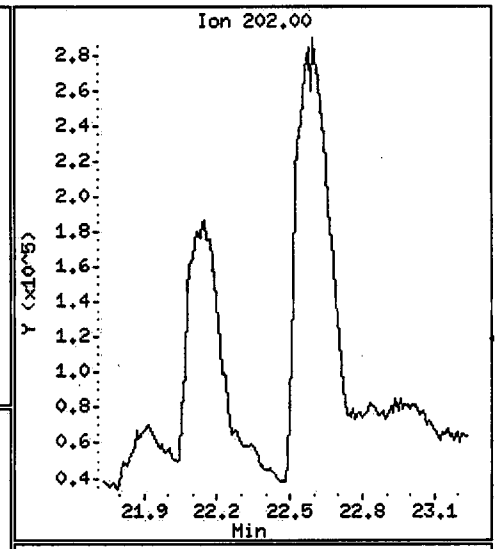
Concentration: 29.8 ug/L

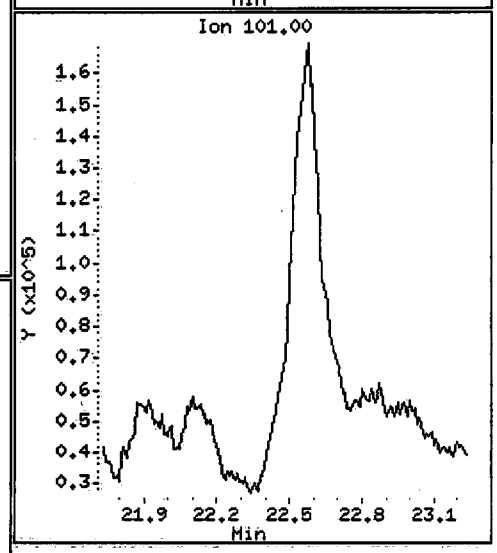












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

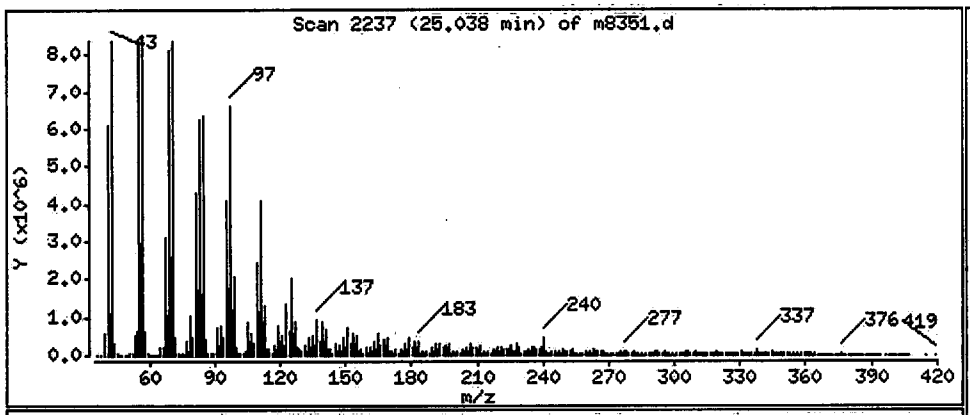
Operator: dce

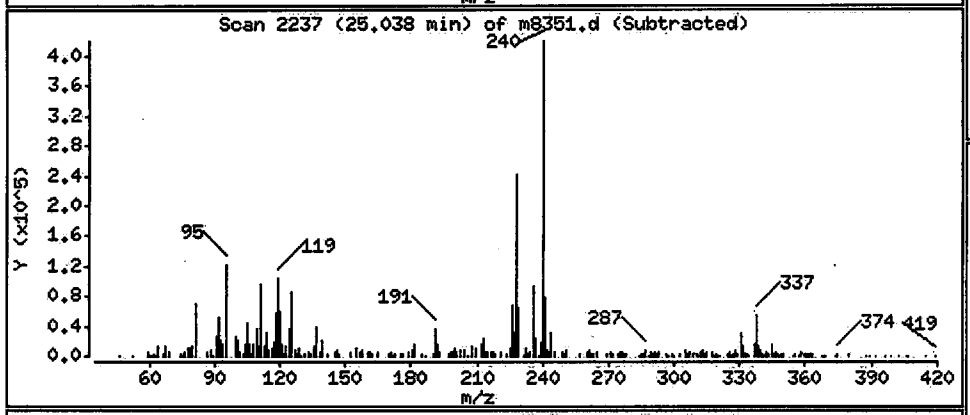
Column phase: ZB-5

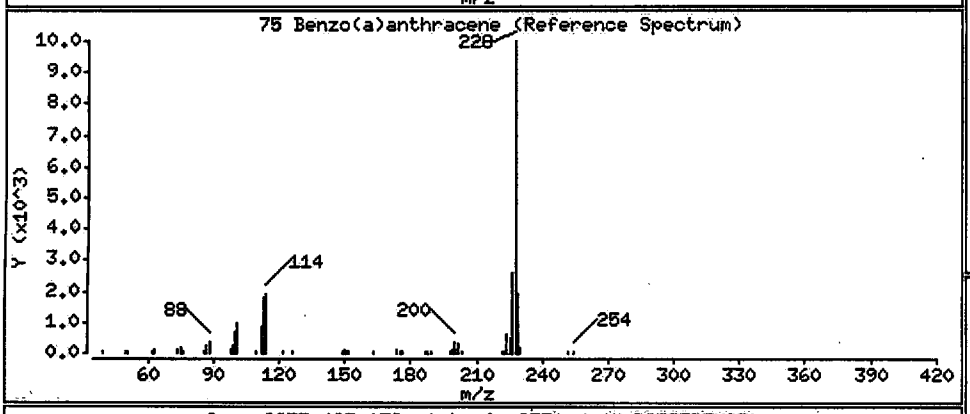
Column diameter: 0.25

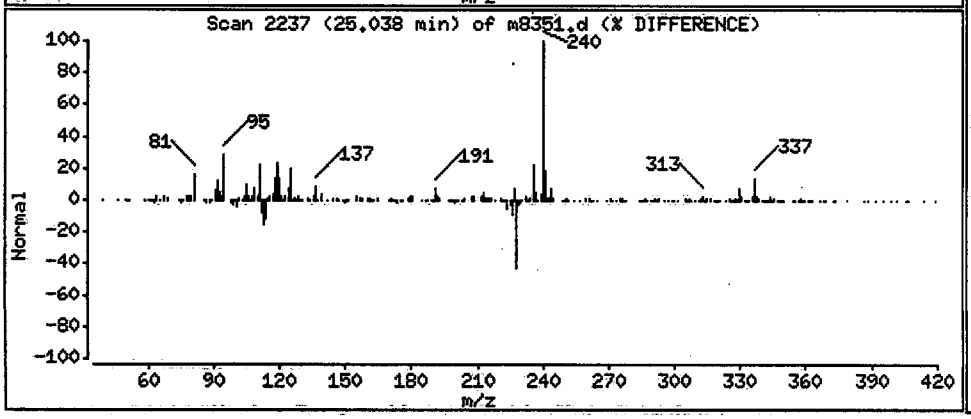
75 Benzo(a)anthracene

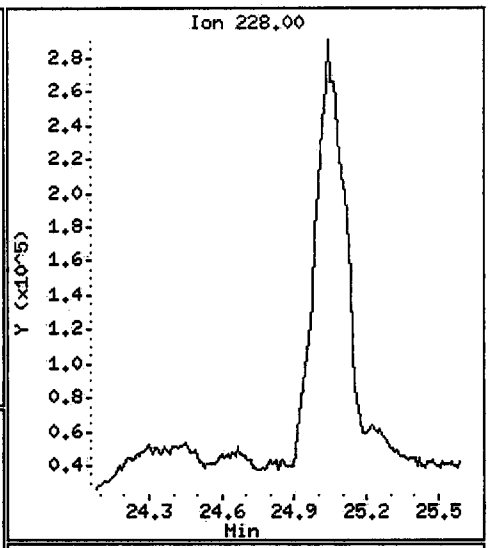
Concentration: 21.9 ug/L

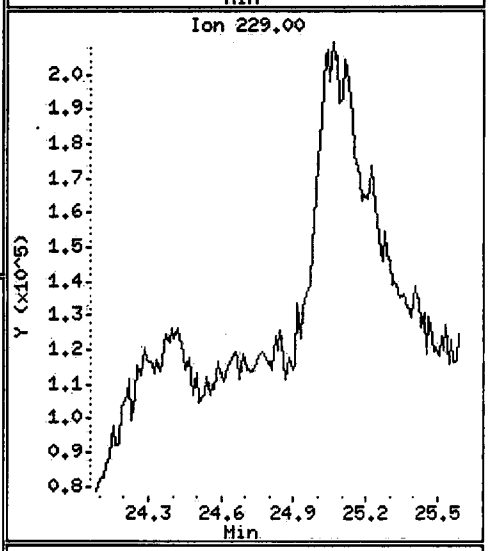


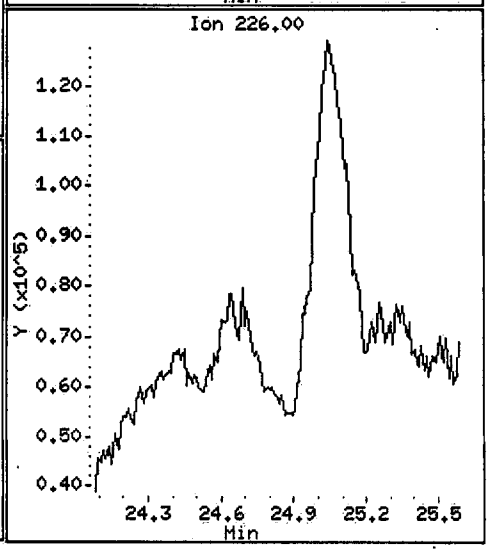












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Page 1

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

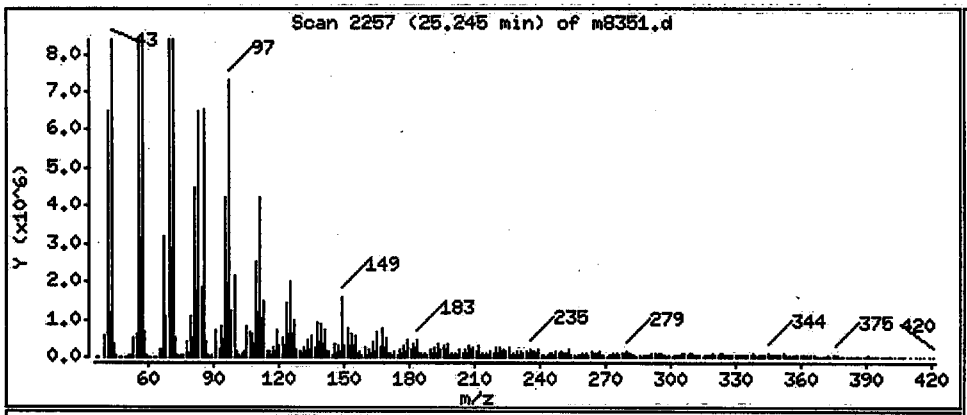
Operator: dce

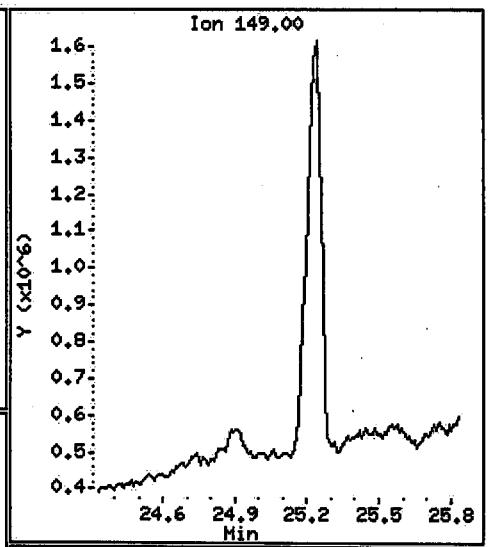
Column phase: ZB-5

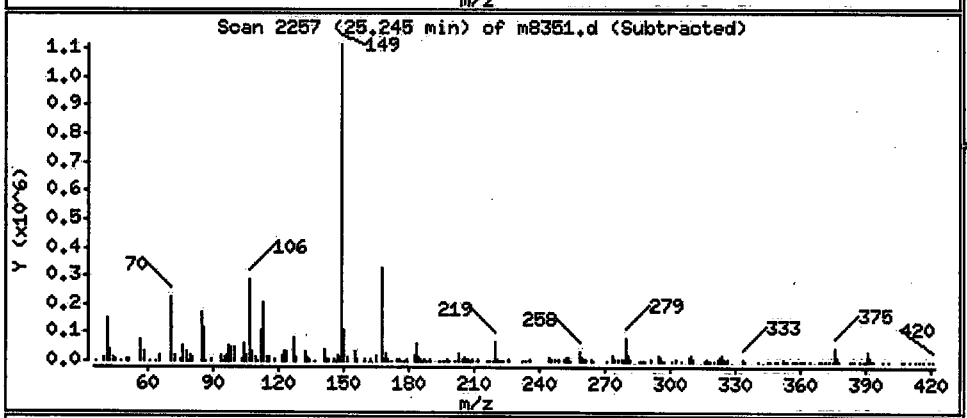
Column diameter: 0.25

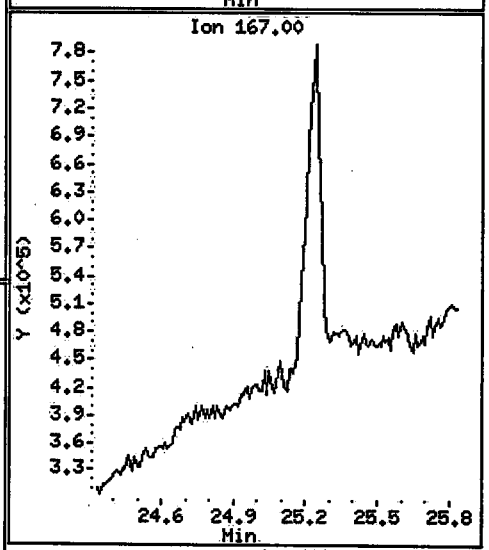
79 Bis(2-ethylhexyl)phthalate

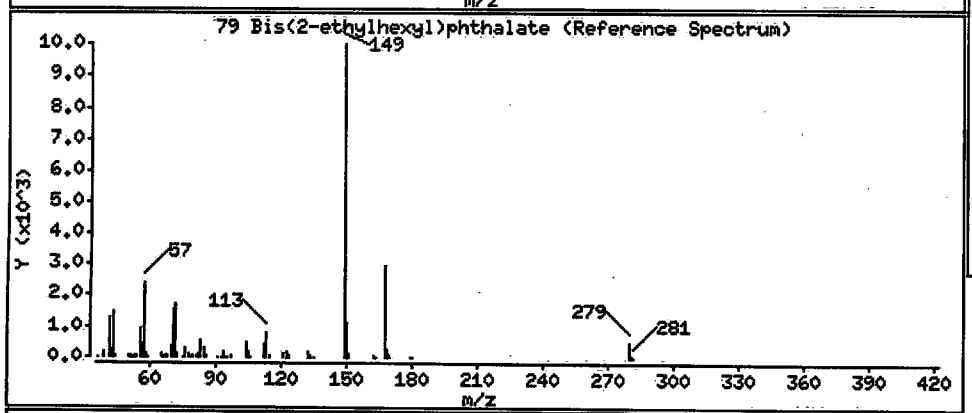
Concentration: 68.2 ug/L

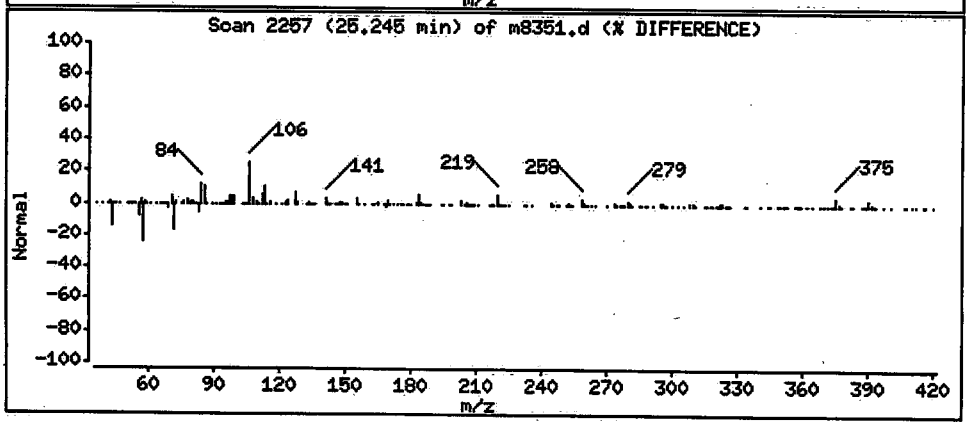












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

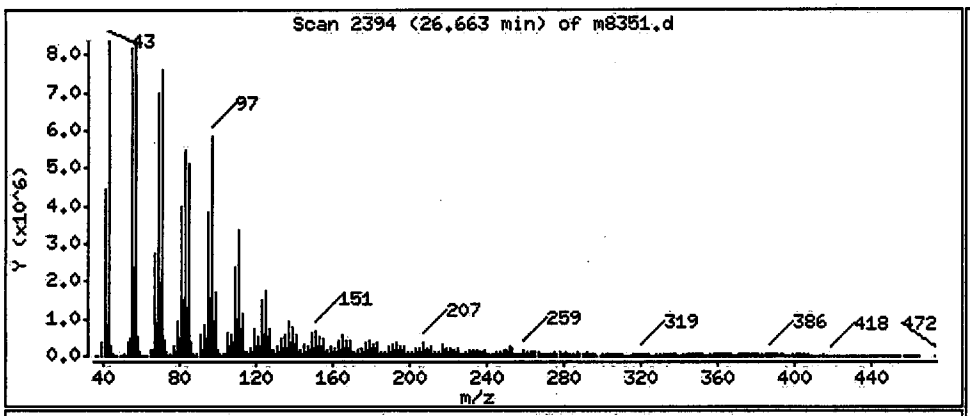
Operator: dce

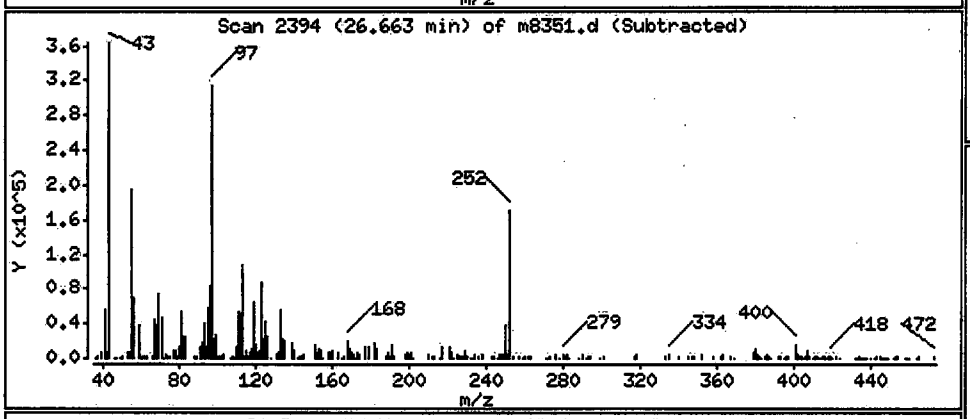
Column phase: ZB-5

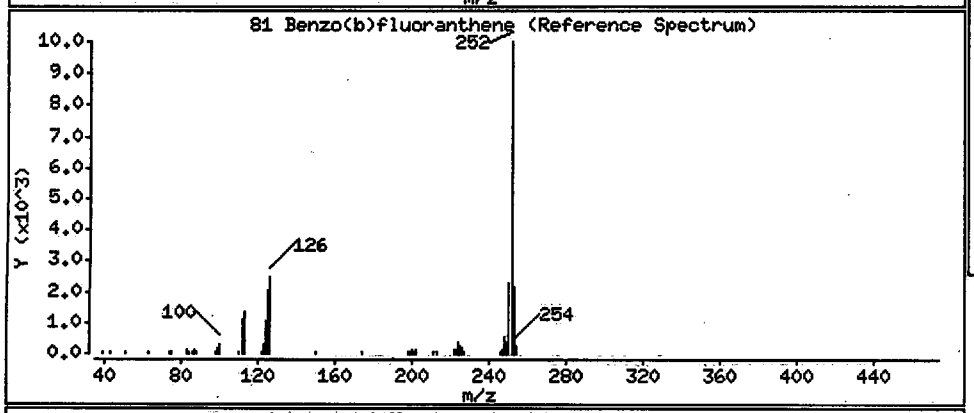
Column diameter: 0.25

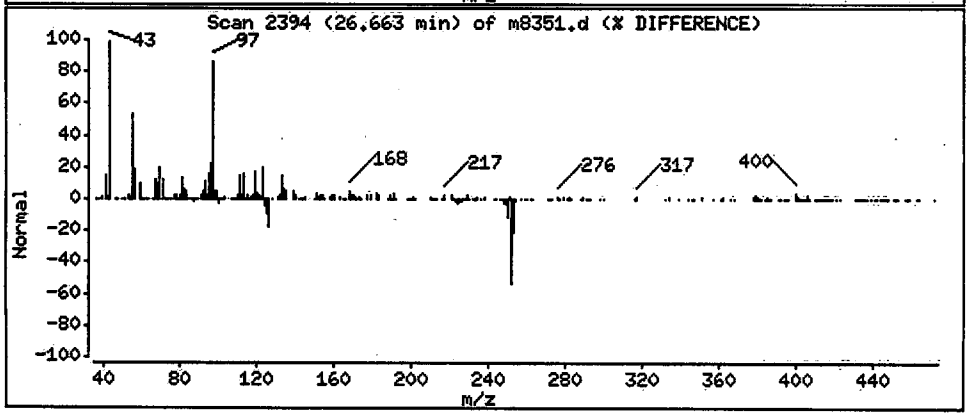
81 Benzo(b)fluoranthene

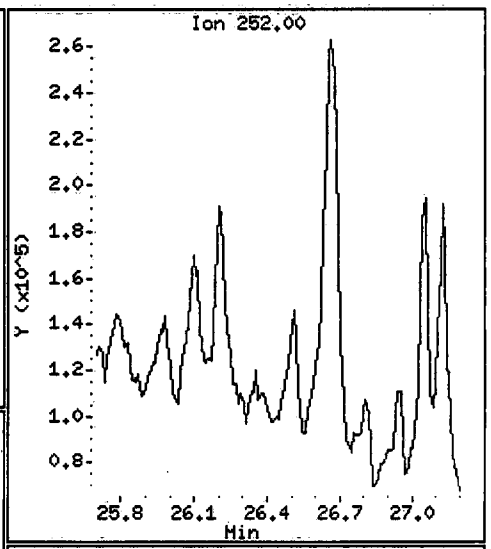
Concentration: 20.0 ug/L

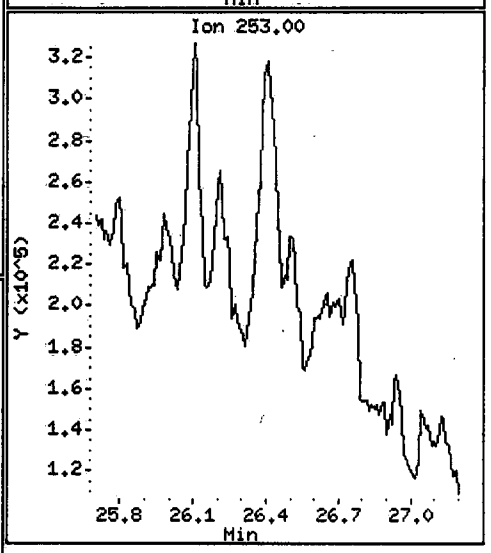












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

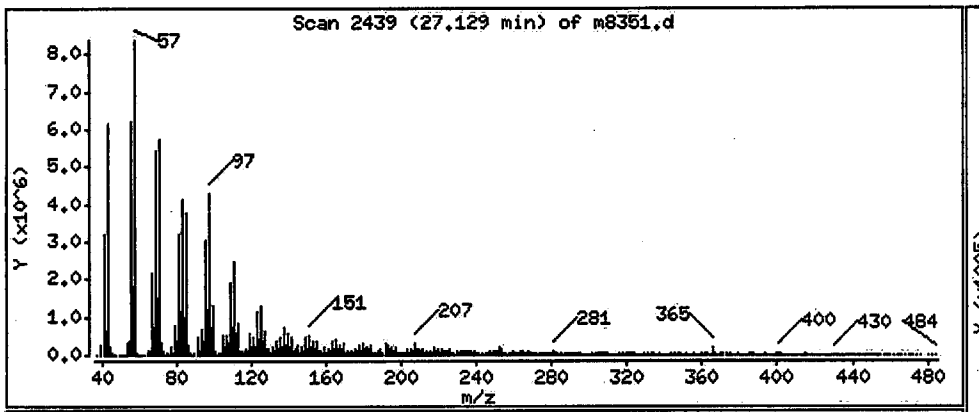
Operator: dce

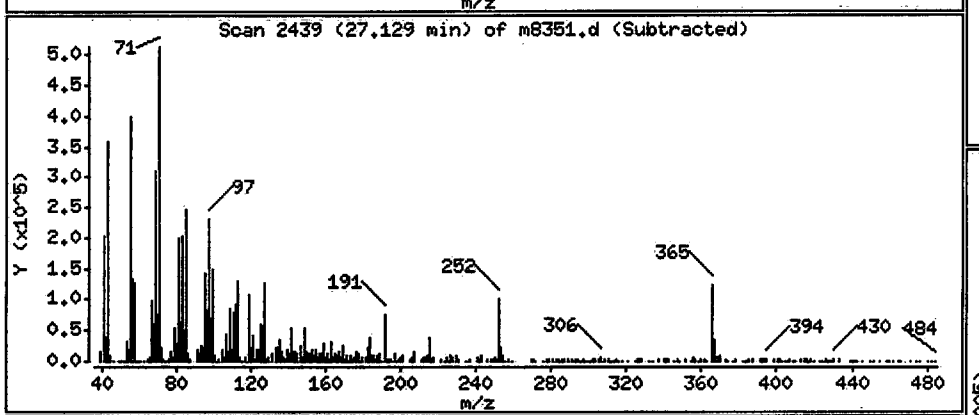
Column phase: ZB-5

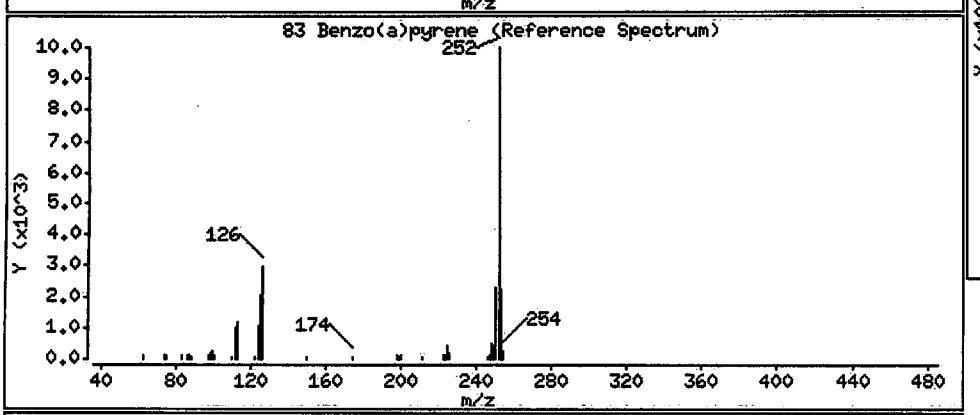
Column diameter: 0.25

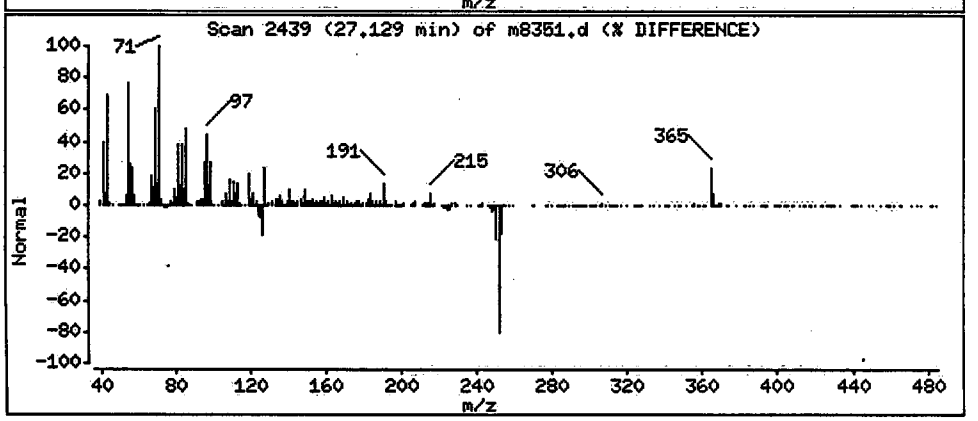
83 Benzo(a)pyrene

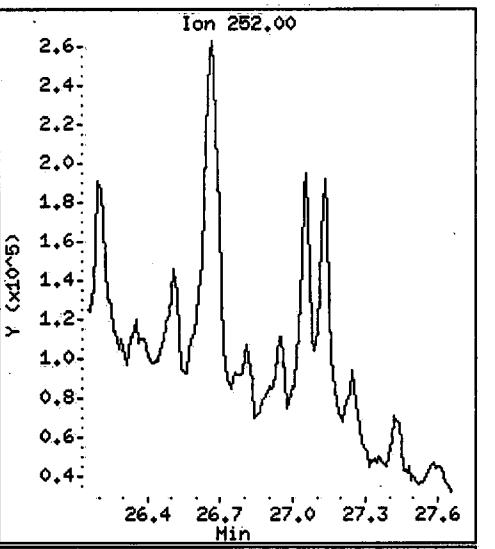
Concentration: 9.72 ug/L

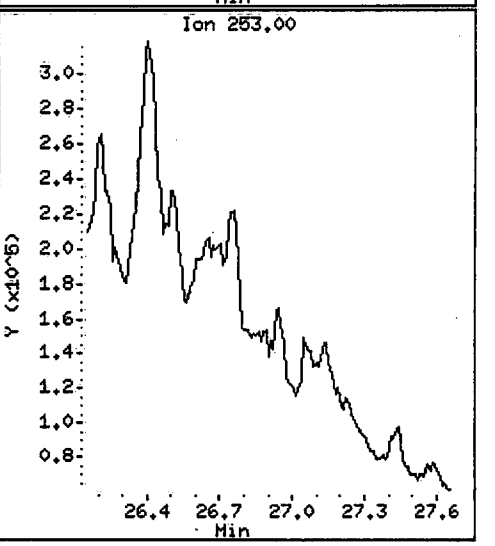












Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

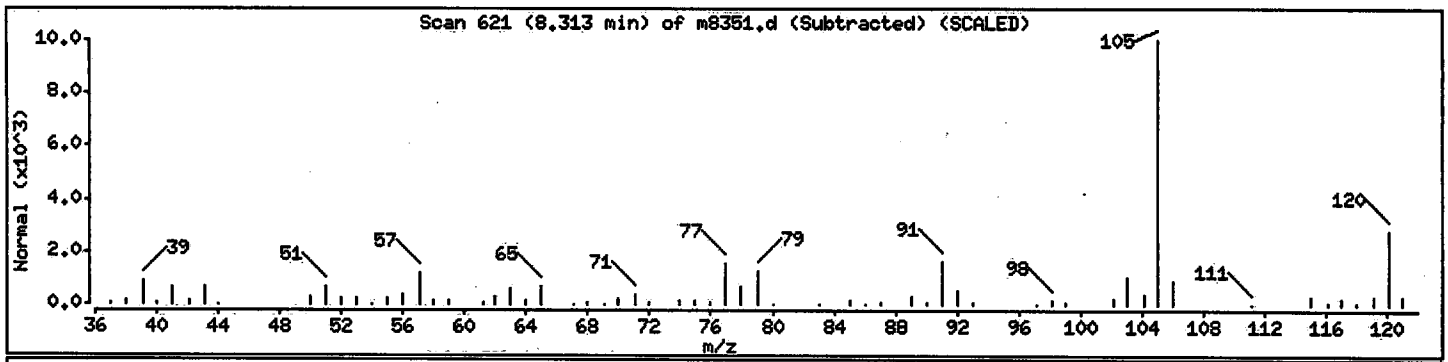
Volume Injected (uL): 2.0

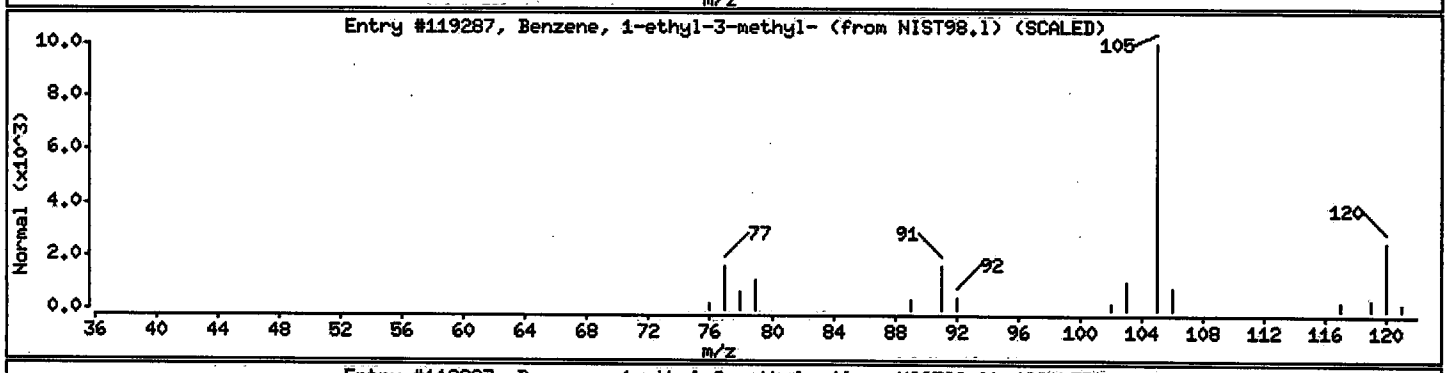
Operator: dce

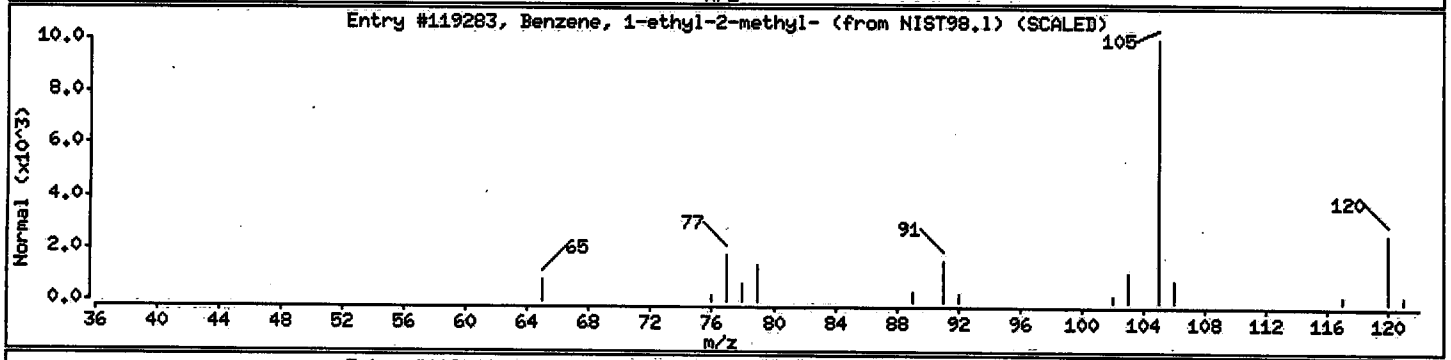
Column phase: ZB-5

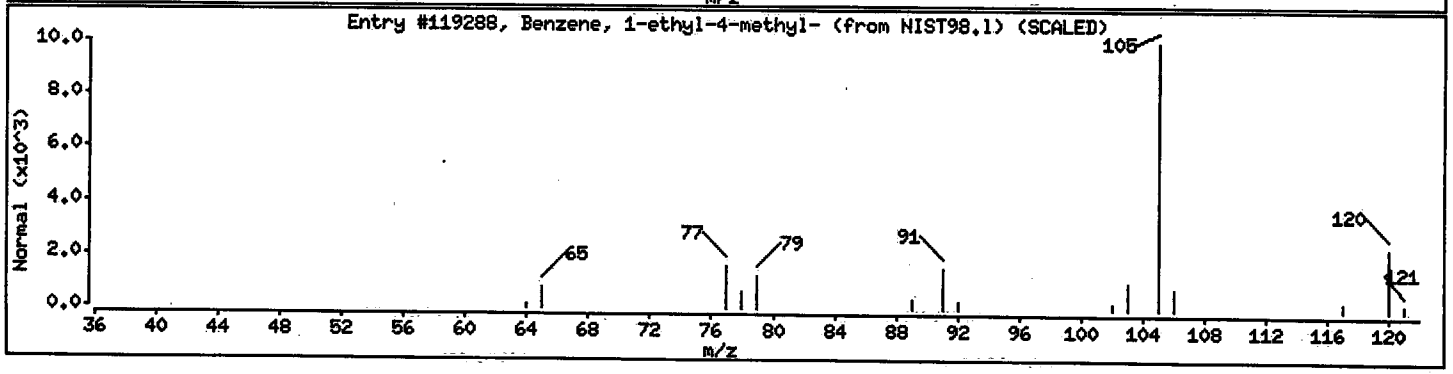
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.1	119287	94	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST98.1	119283	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST98.1	119288	94	C9H12	120









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

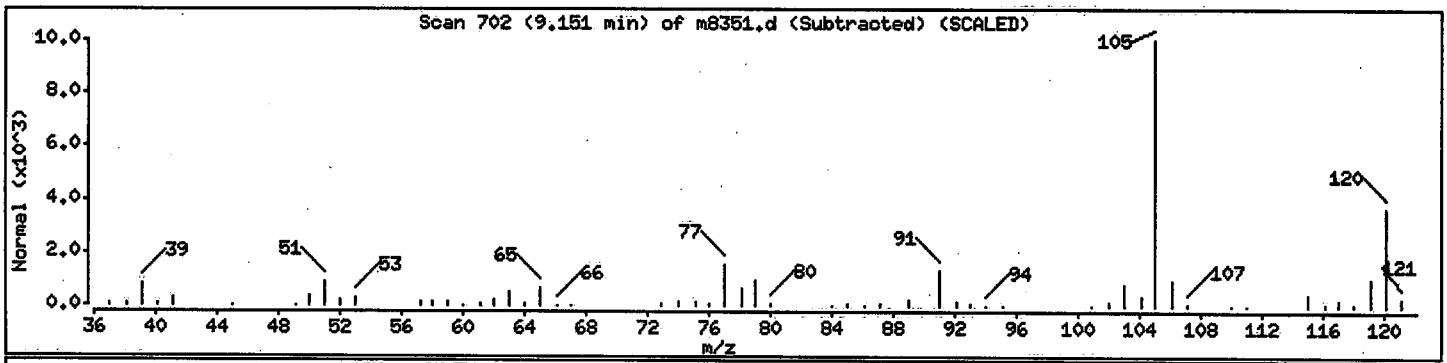
Volume Injected (uL): 2.0

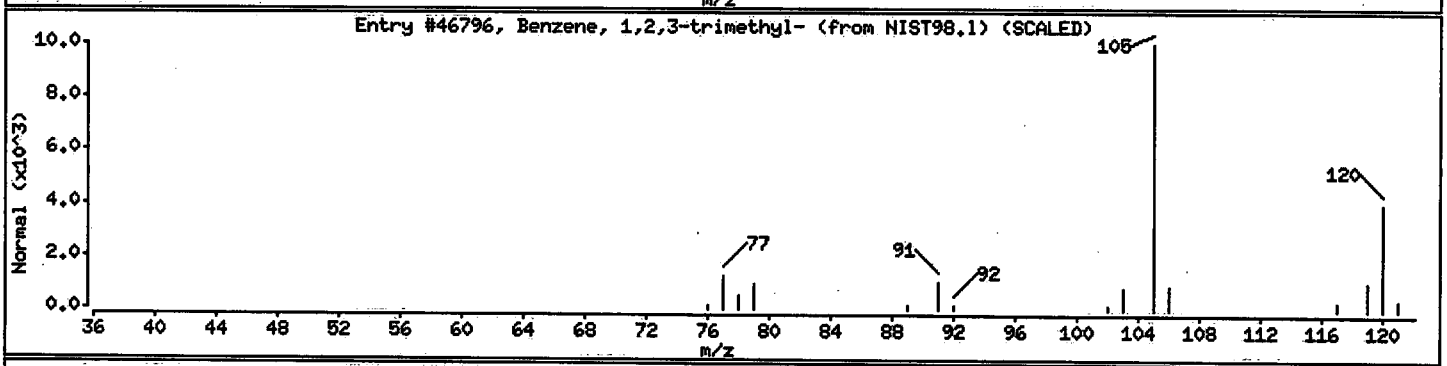
Operator: dce

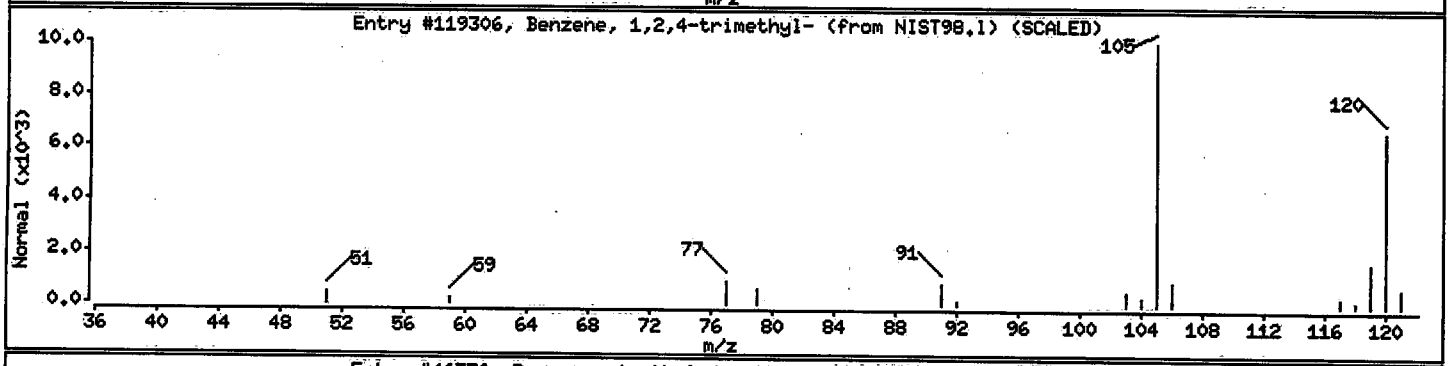
Column phase: ZB-5

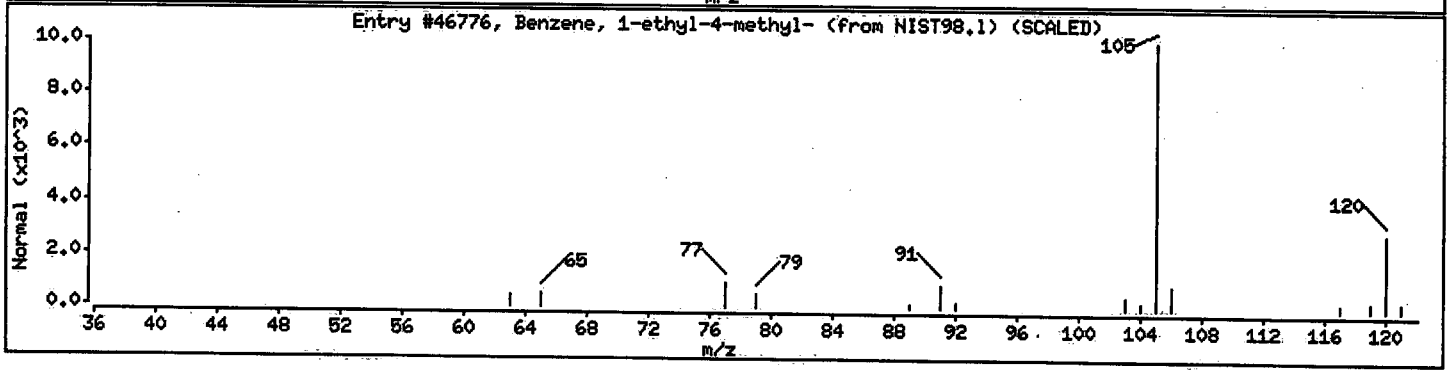
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.1	46796	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.1	119306	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST98.1	46776	93	C9H12	120









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

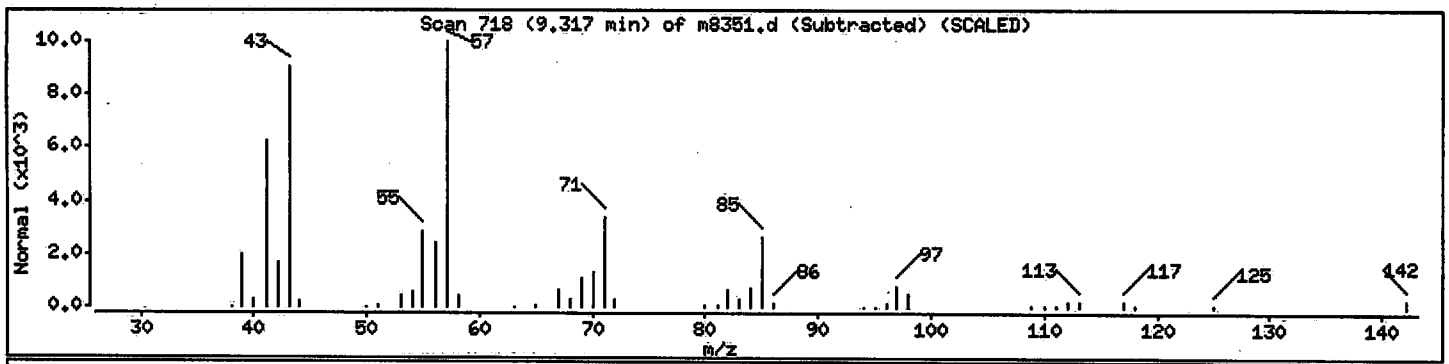
Volume Injected (uL): 2.0

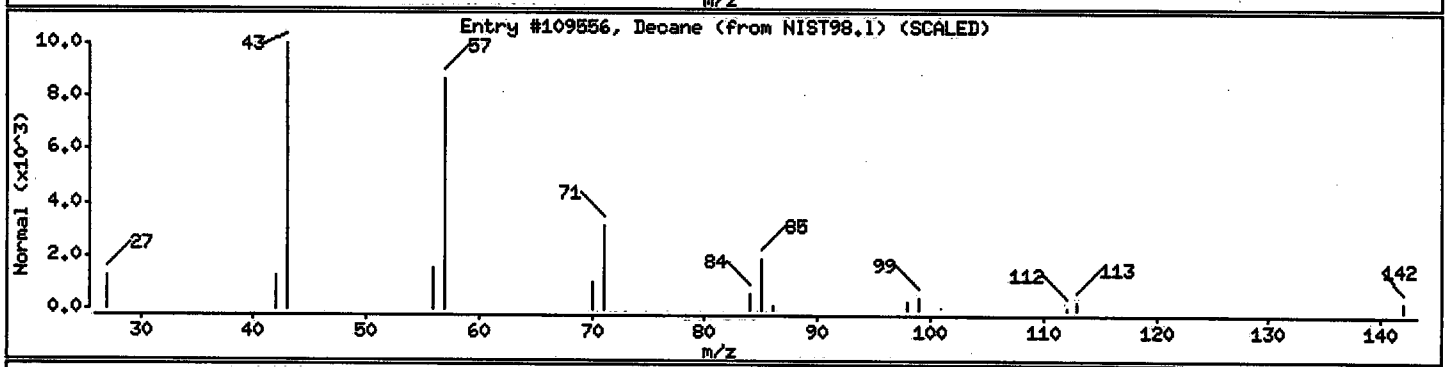
Operator: dce

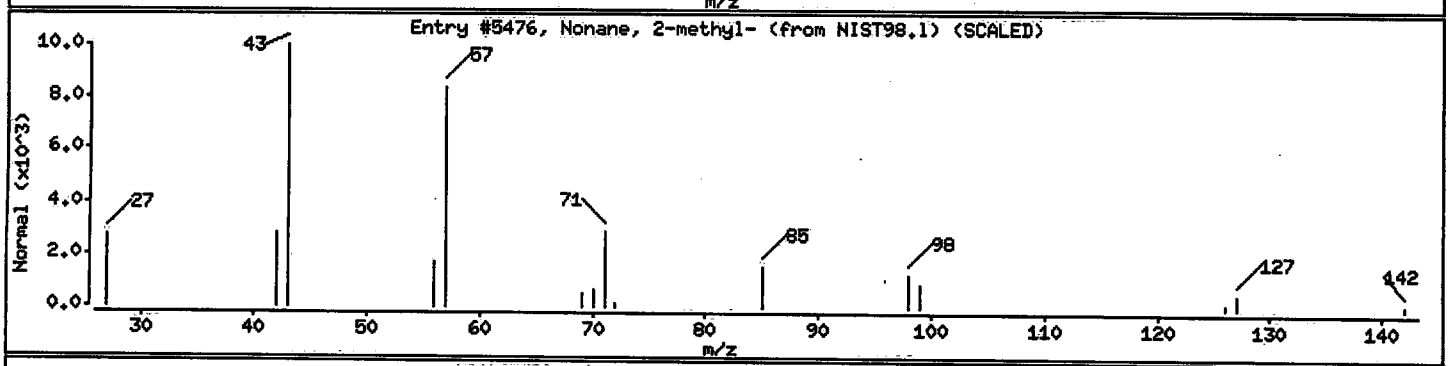
Column phase: ZB-5

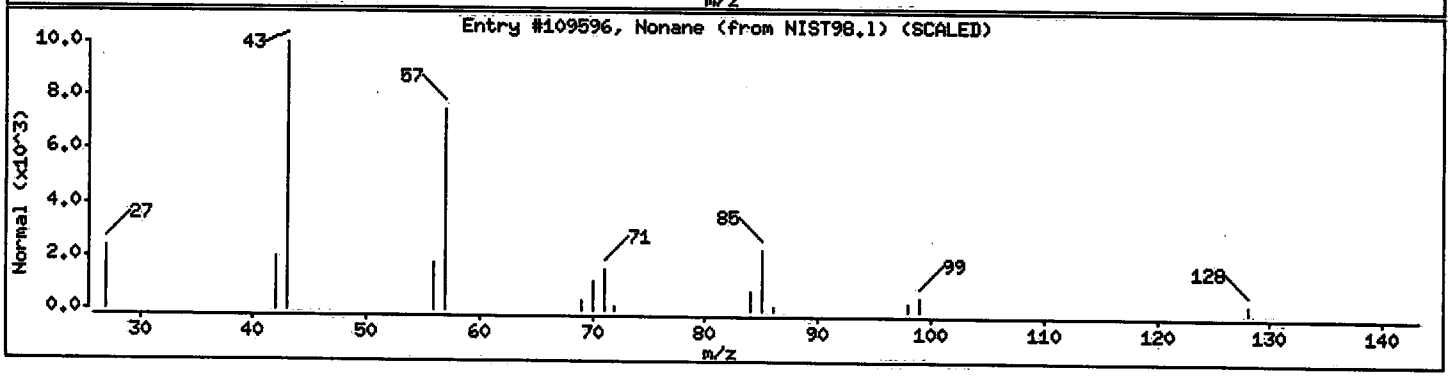
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NIST98.1	109556	76	C10H22	142
Nonane, 2-methyl-	871-83-0	NIST98.1	5476	64	C10H22	142
Nonane	111-84-2	NIST98.1	109596	64	C9H20	128









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Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

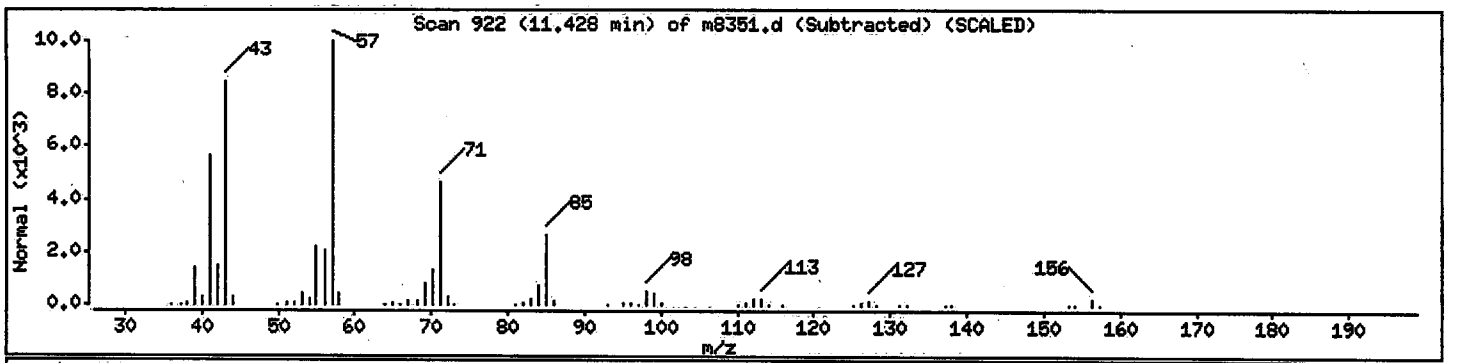
Volume Injected (uL): 2.0

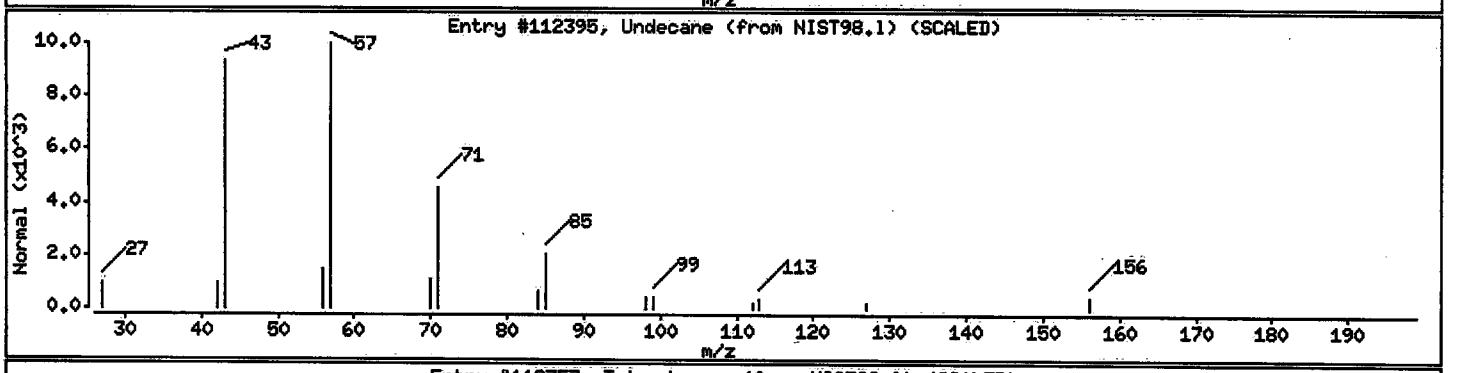
Operator: dce

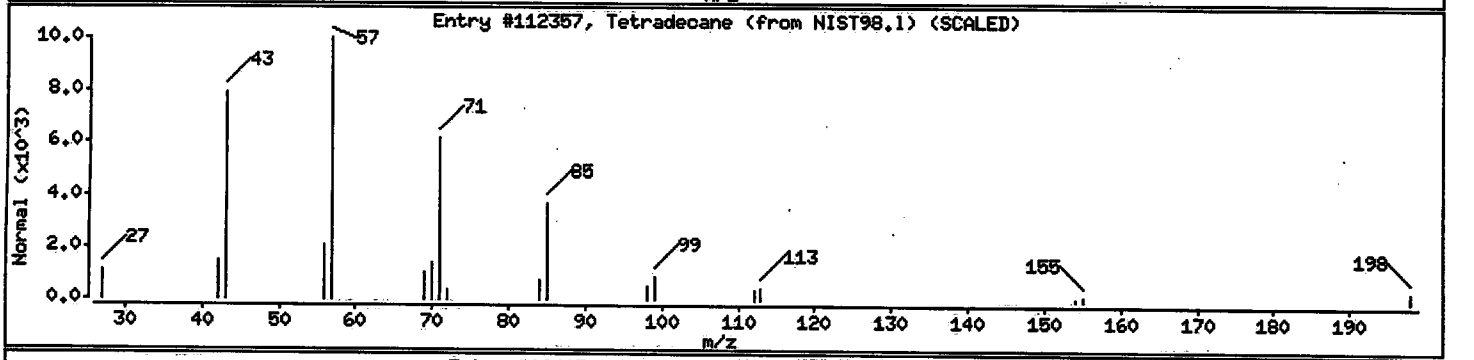
Column phase: ZB-5

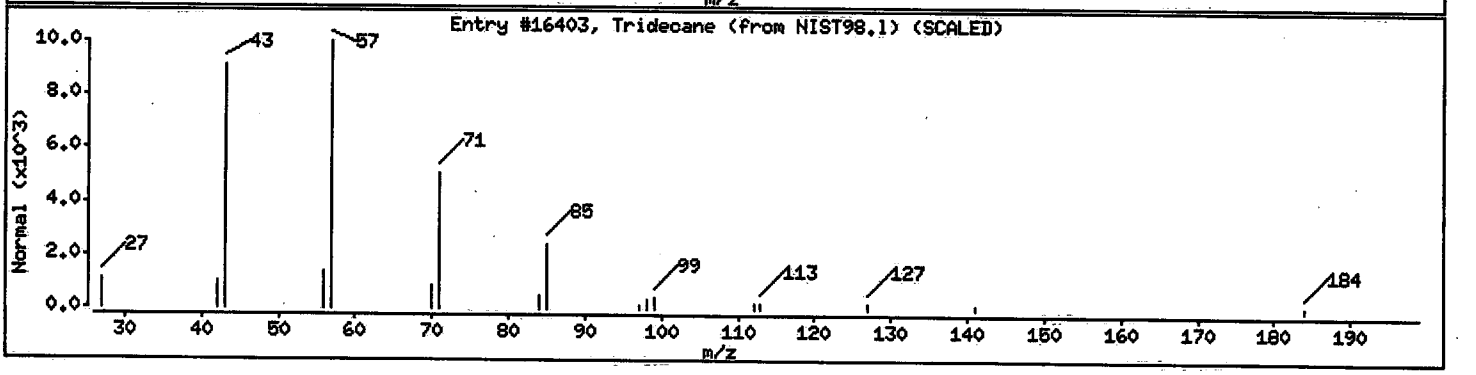
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NIST98.1	112395	91	C11H24	156
Tetradecane	629-59-4	NIST98.1	112357	90	C14H30	198
Tridecane	629-50-5	NIST98.1	16403	86	C13H28	184









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Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

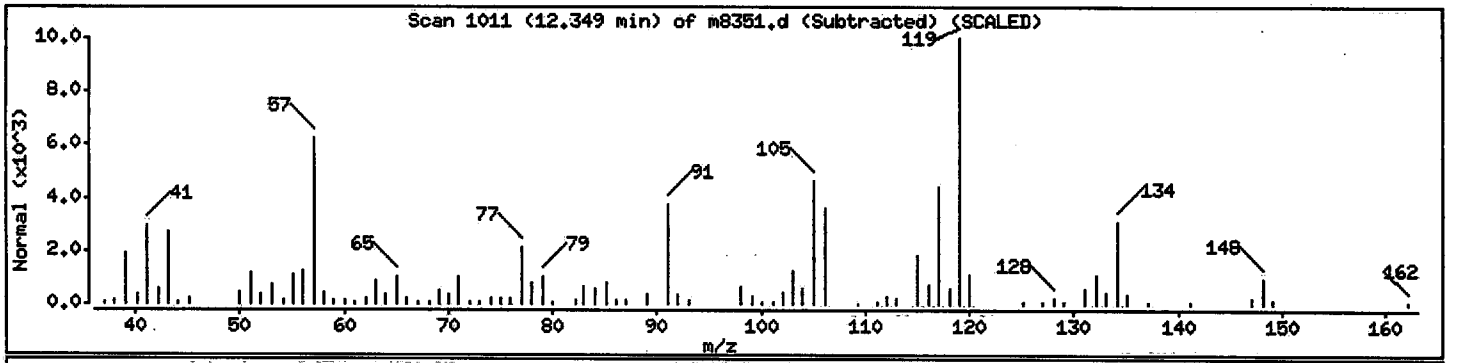
Volume Injected (uL): 2.0

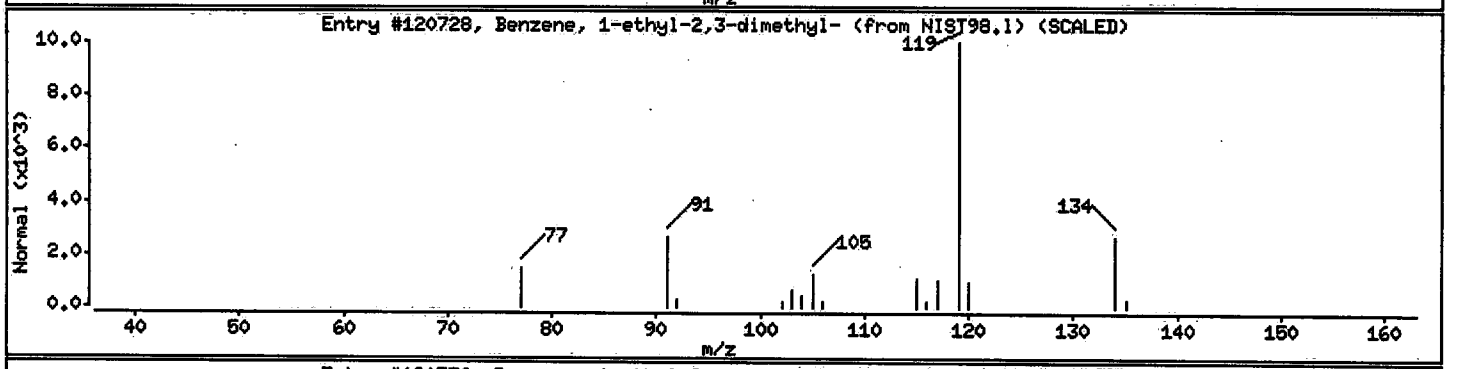
Operator: doe

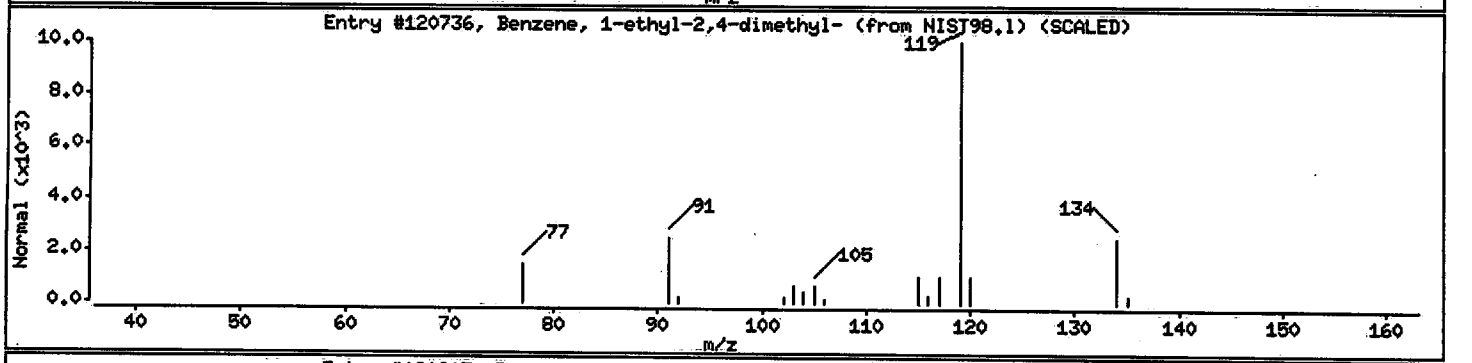
Column phase: ZB-5

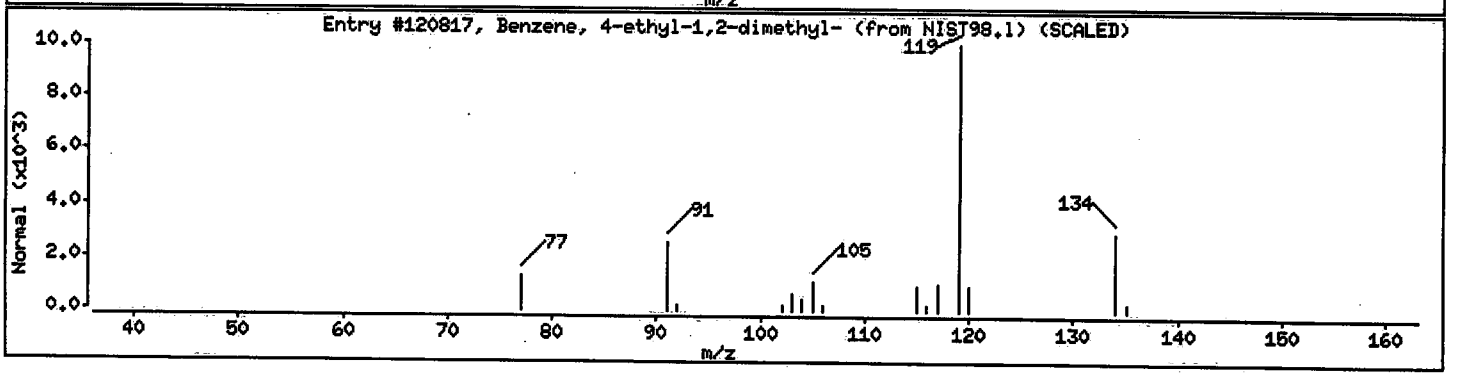
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST98.1	120728	70	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST98.1	120736	70	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST98.1	120817	70	C10H14	134









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

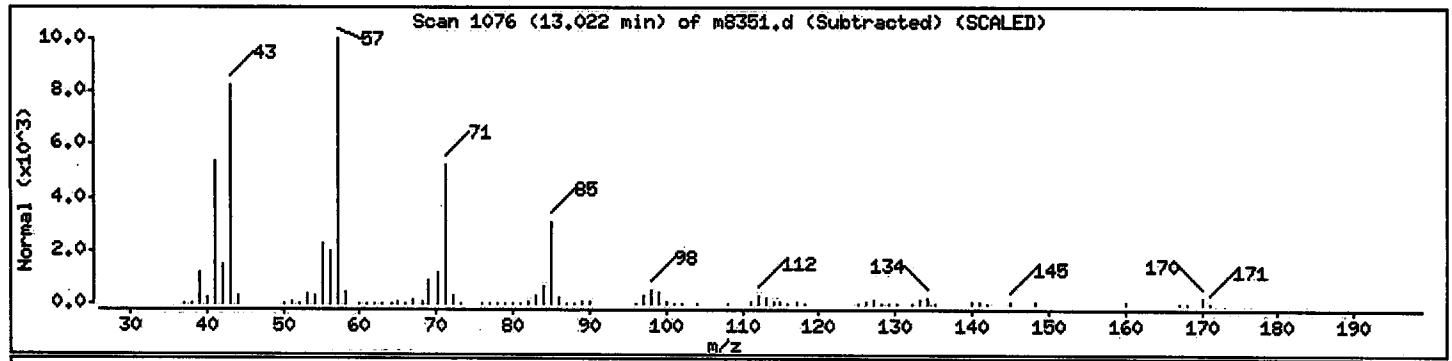
Volume Injected (uL): 2.0

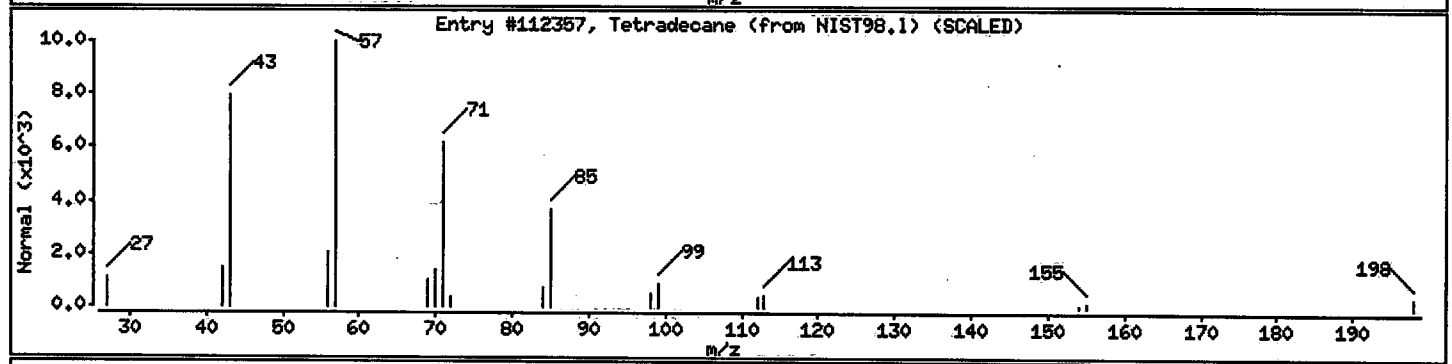
Operator: dce

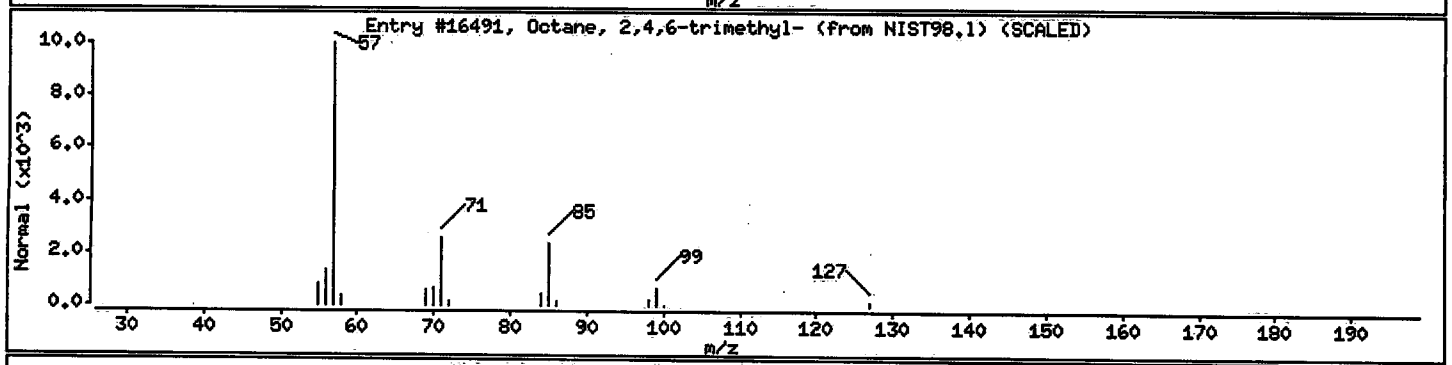
Column phase: ZB-5

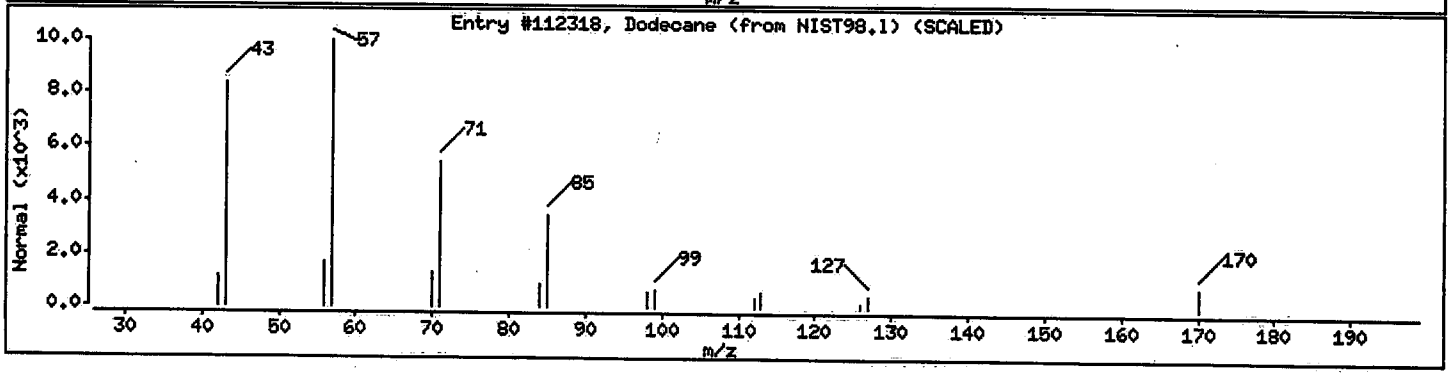
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112357	90	C14H30	198
Octane, 2,4,6-trimethyl-	62016-37-9	NIST98.1	16491	86	C11H24	156
Dodecane	112-40-3	NIST98.1	112318	86	C12H26	170









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

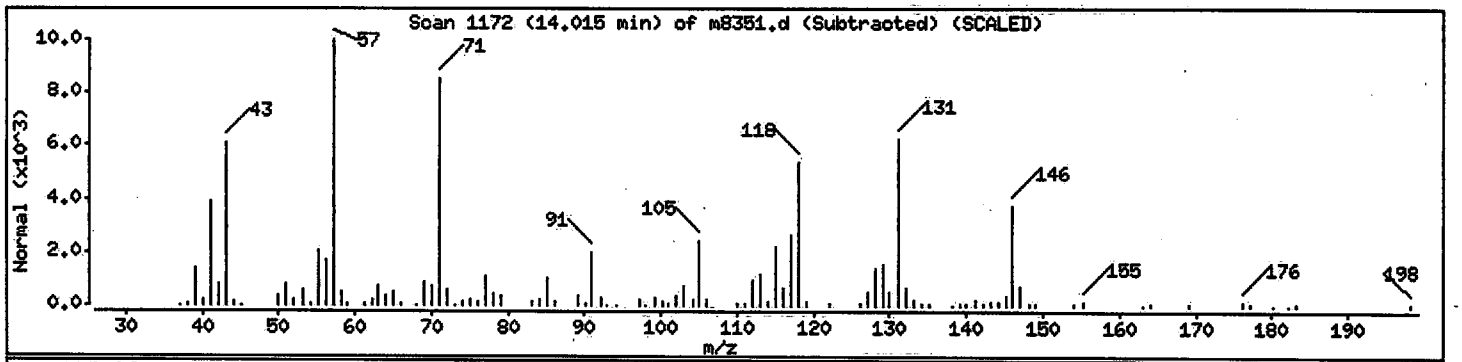
Volume Injected (uL): 2.0

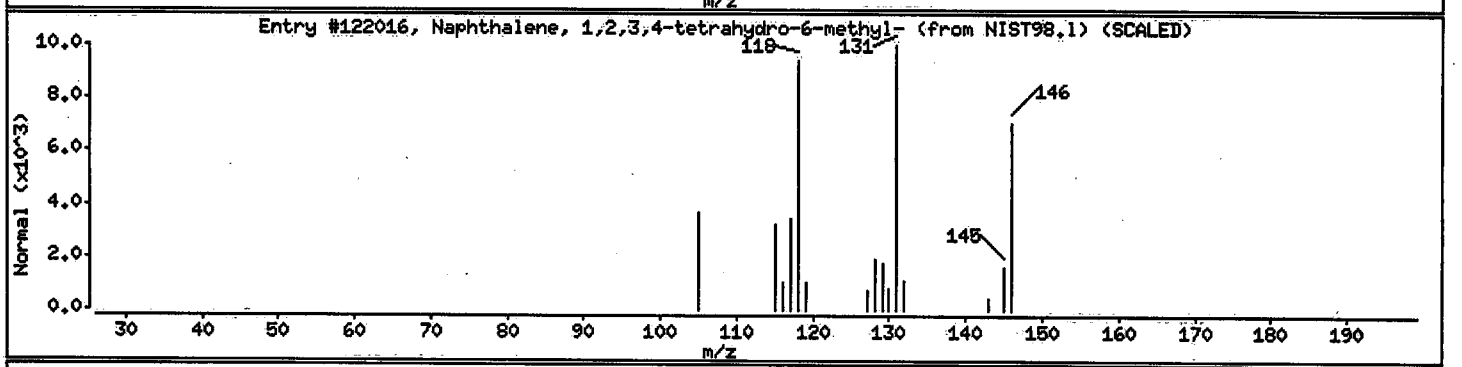
Operator: dce

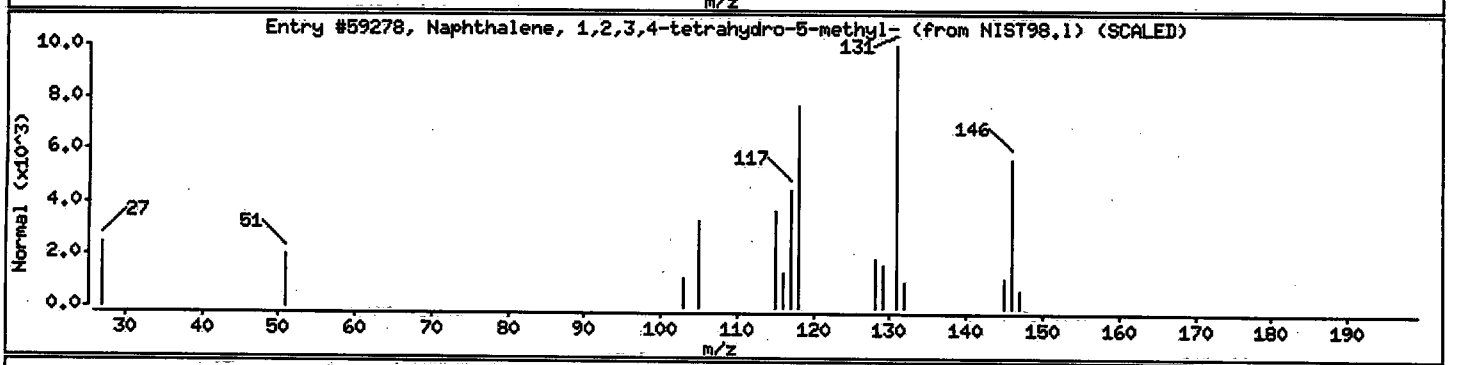
Column phase: ZB-5

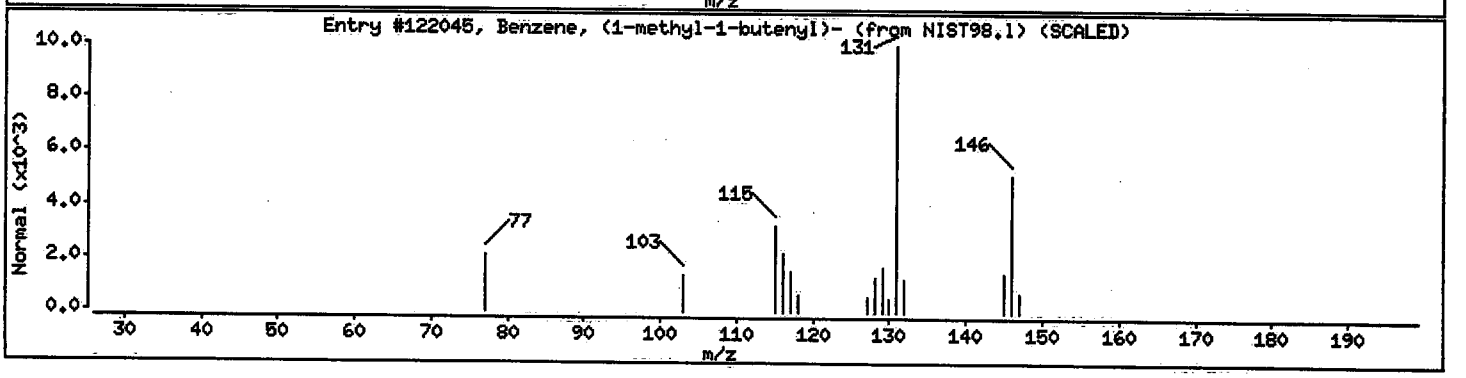
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST98.1	122016	78	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST98.1	59278	60	C11H14	146
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIST98.1	122045	50	C11H14	146









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

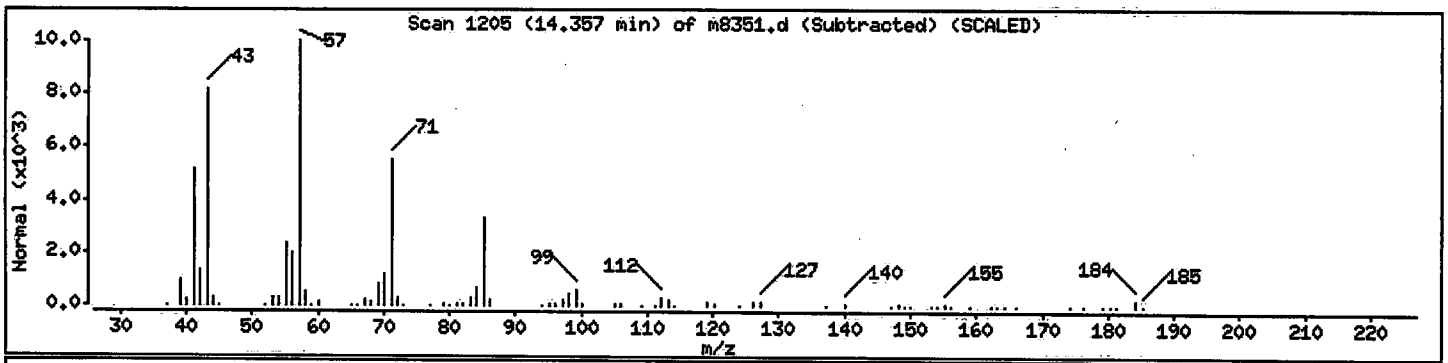
Volume Injected (uL): 2.0

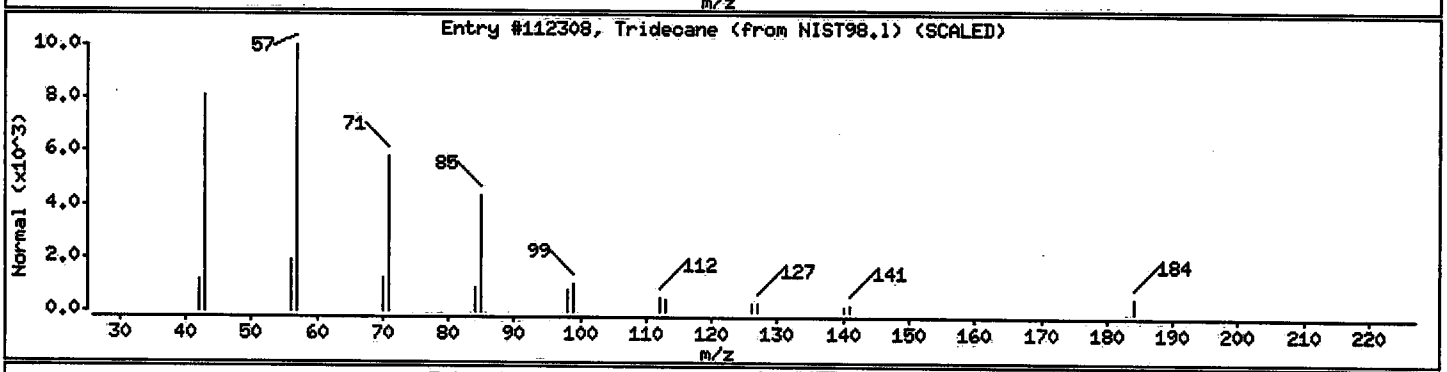
Operator: dce

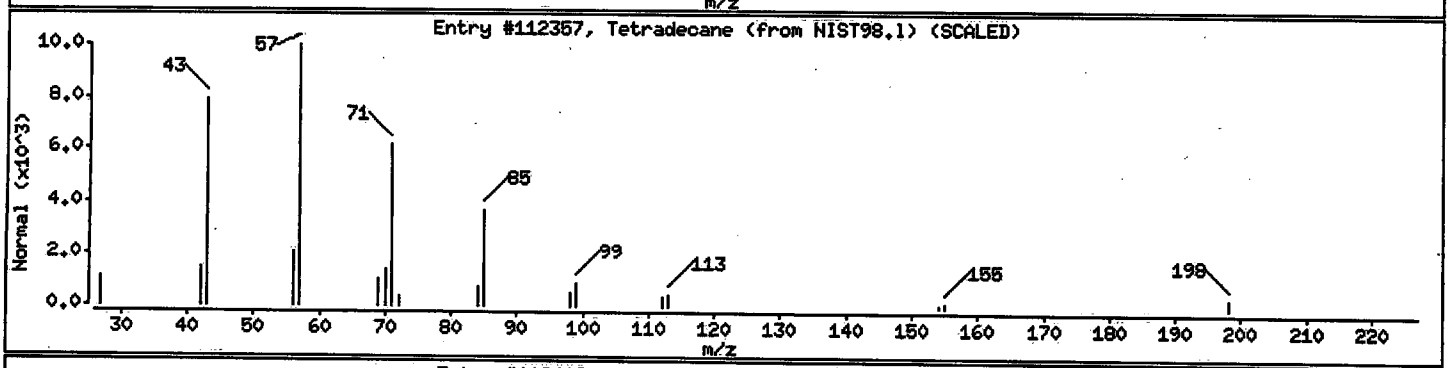
Column phase: ZB-5

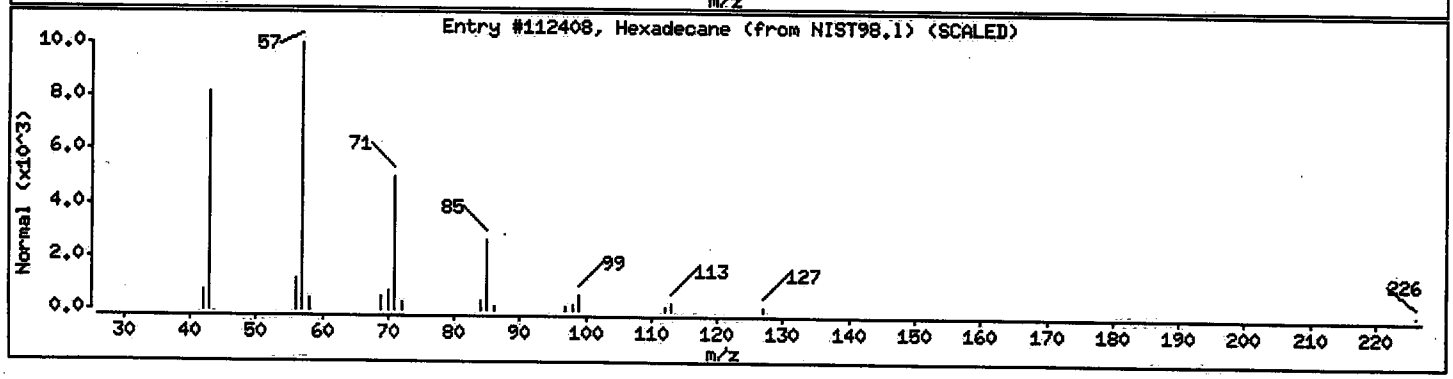
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane	629-50-5	NIST98.1	112308	95	C13H28	184
Tetradecane	629-59-4	NIST98.1	112357	90	C14H30	198
Hexadecane	544-76-3	NIST98.1	112408	86	C16H34	226









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Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

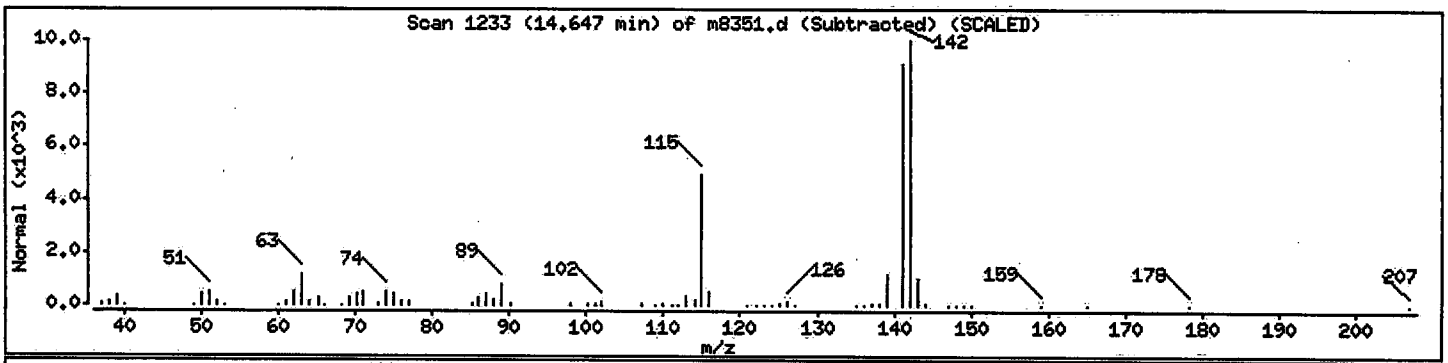
Volume Injected (uL): 2.0

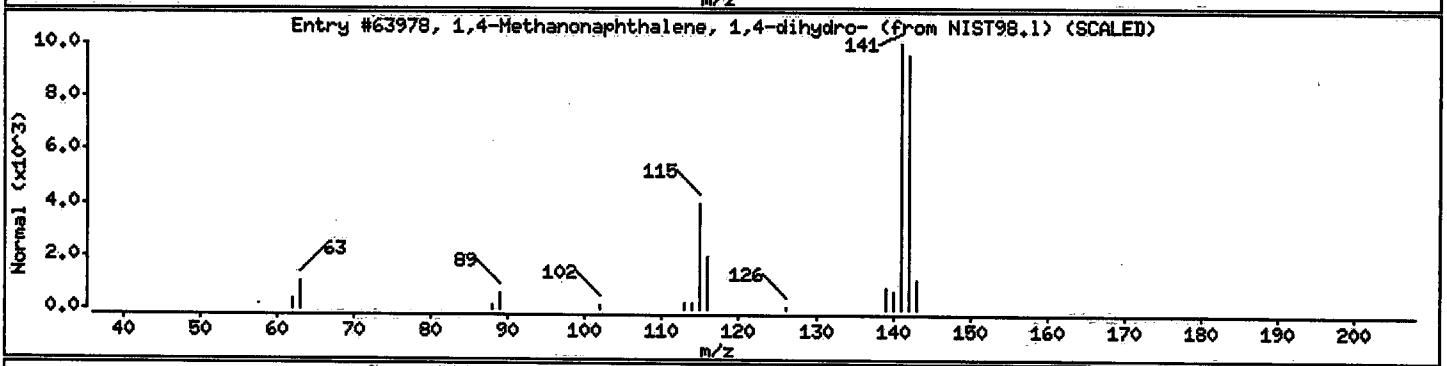
Operator: dce

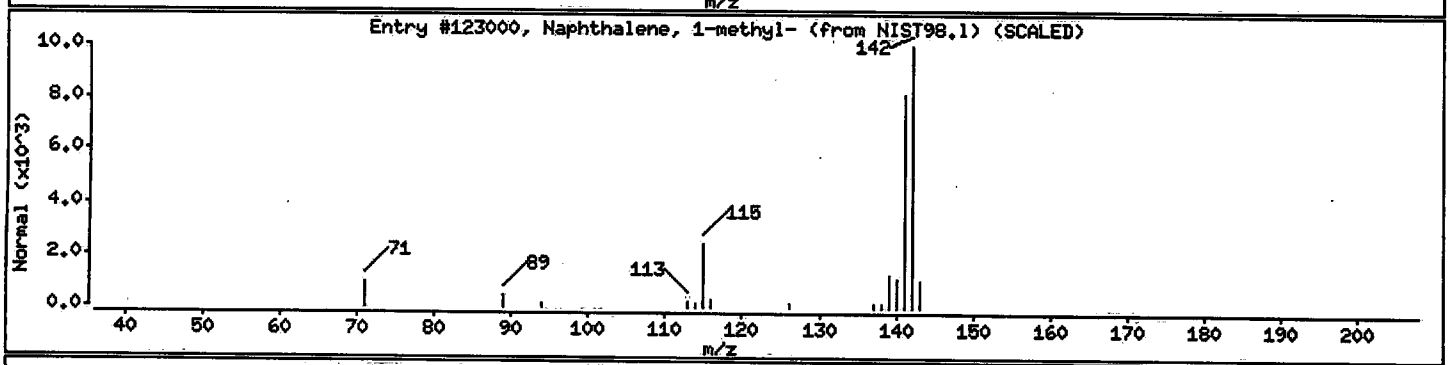
Column phase: ZB-5

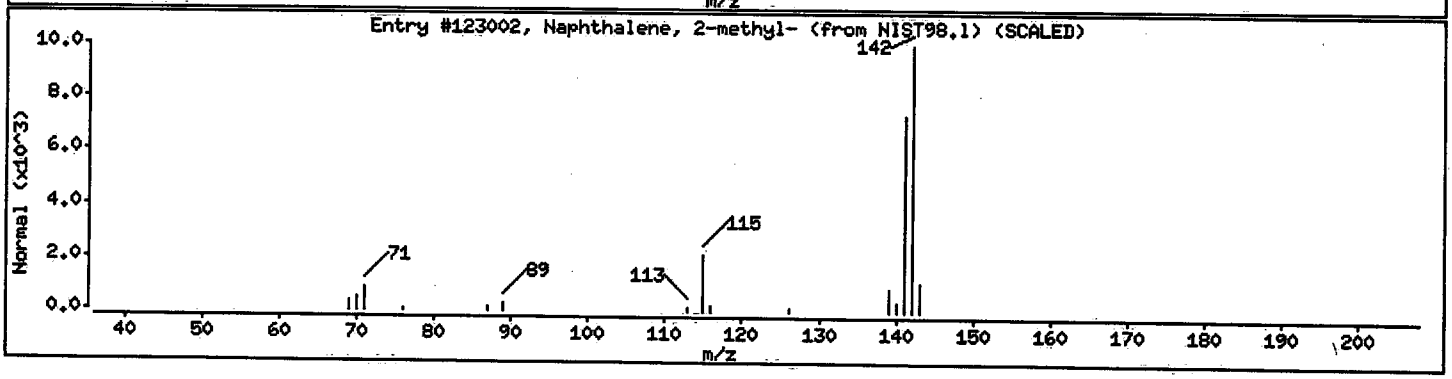
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST98.1	63978	94	C11H10	142
Naphthalene, 1-methyl-	90-12-0	NIST98.1	123000	93	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NIST98.1	123002	91	C11H10	142









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

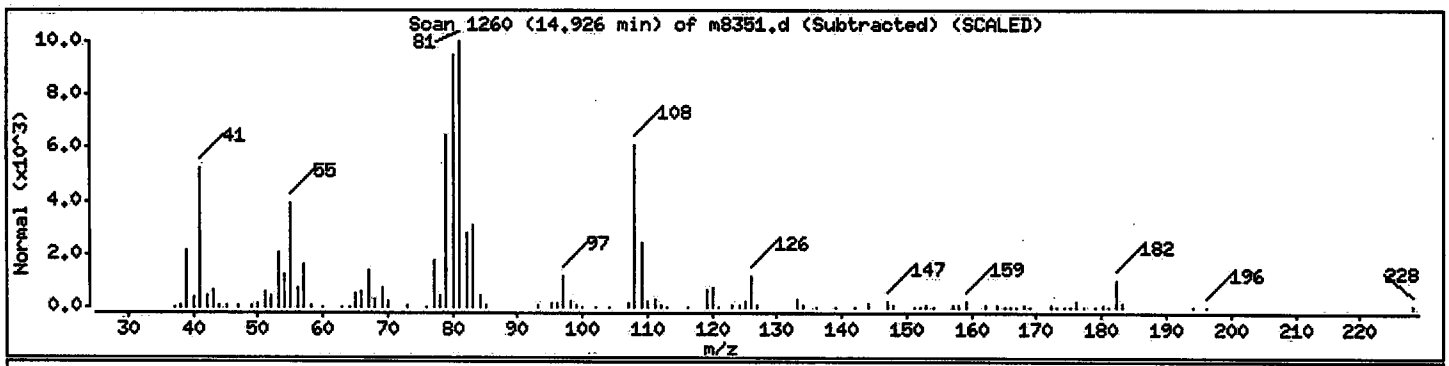
Volume Injected (uL): 2.0

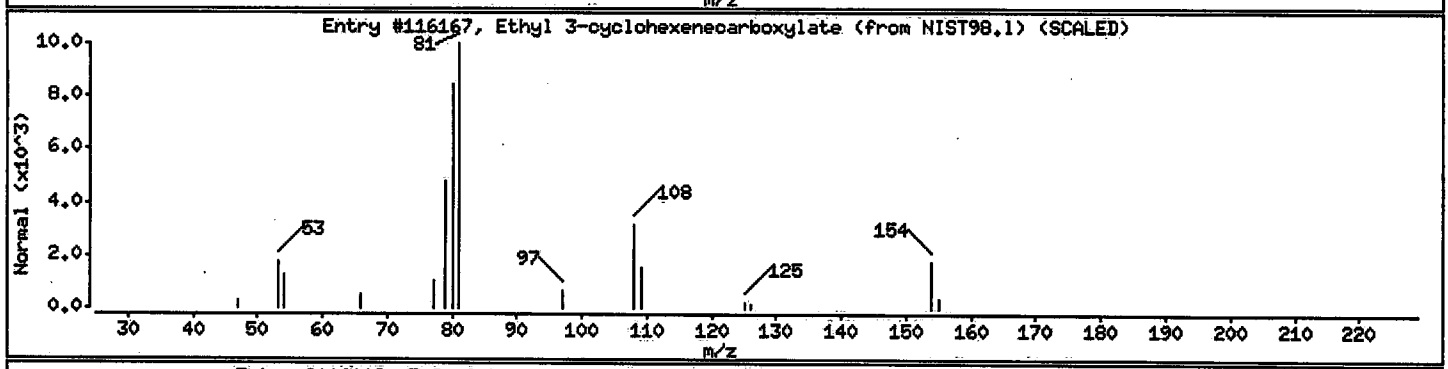
Operator: dce

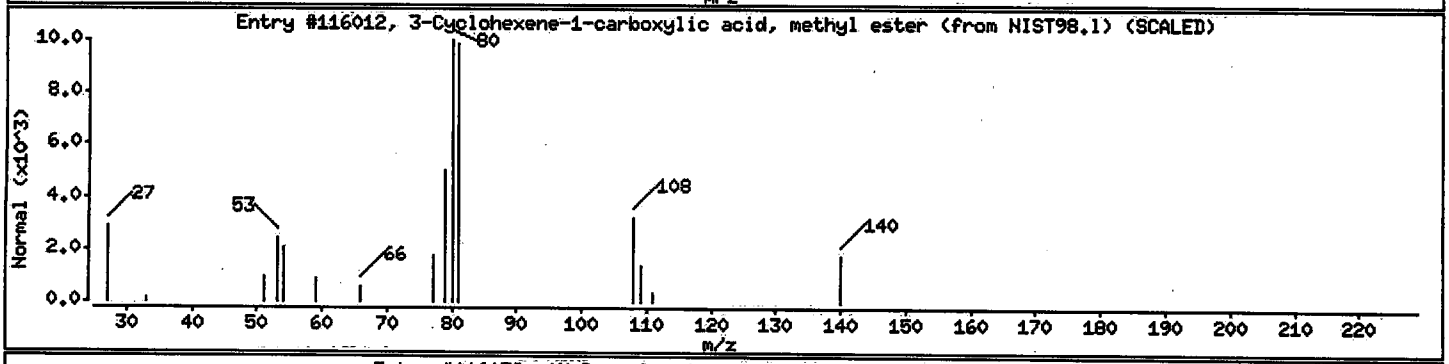
Column phase: ZB-5

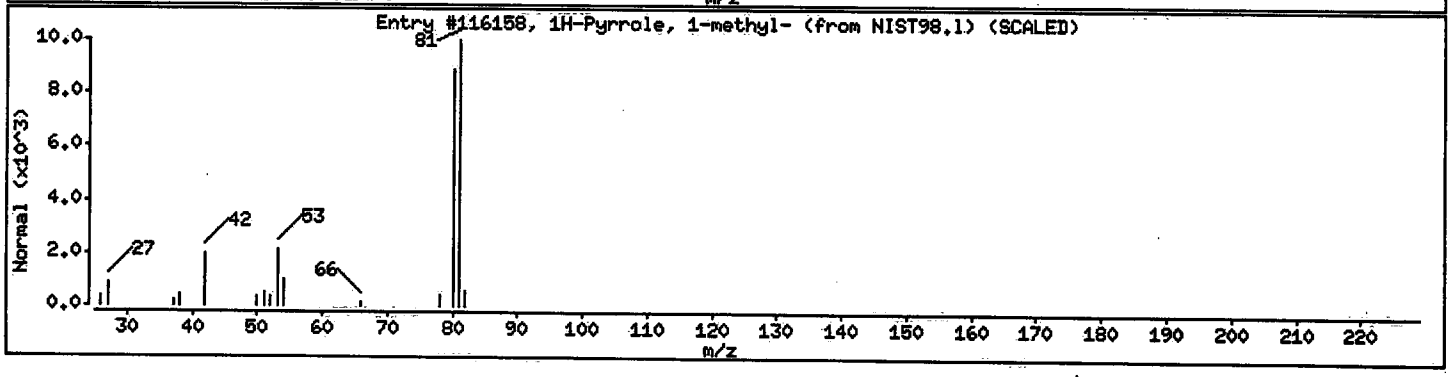
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl 3-cyclohexenecarboxylate	15111-56-5	NIST98.1	116167	72	C9H14O2	154
3-Cyclohexene-1-carboxylic acid, methyl	6493-77-2	NIST98.1	116012	64	C8H12O2	140
1H-Pyrrole, 1-methyl-	96-54-8	NIST98.1	116158	58	C5H7N	81









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

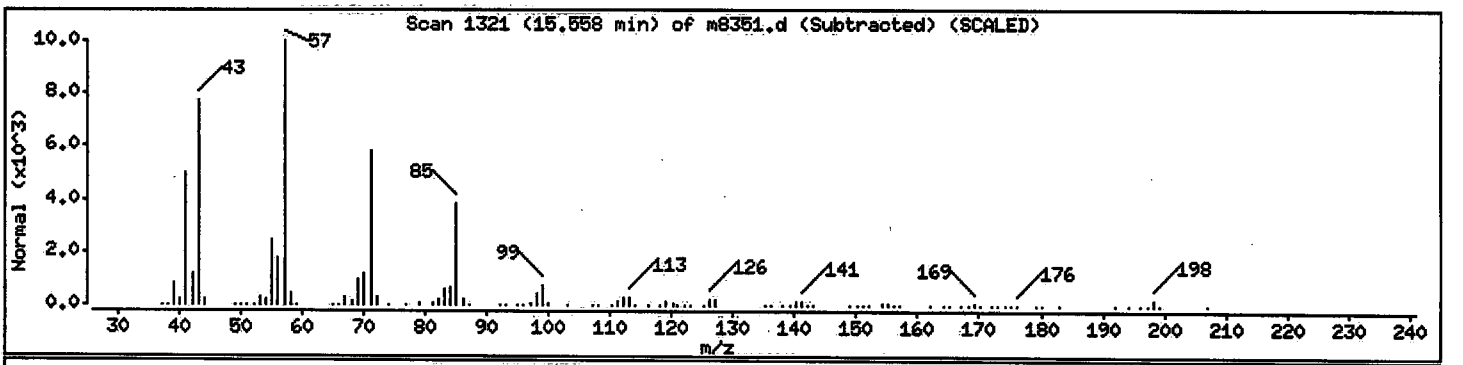
Volume Injected (uL): 2.0

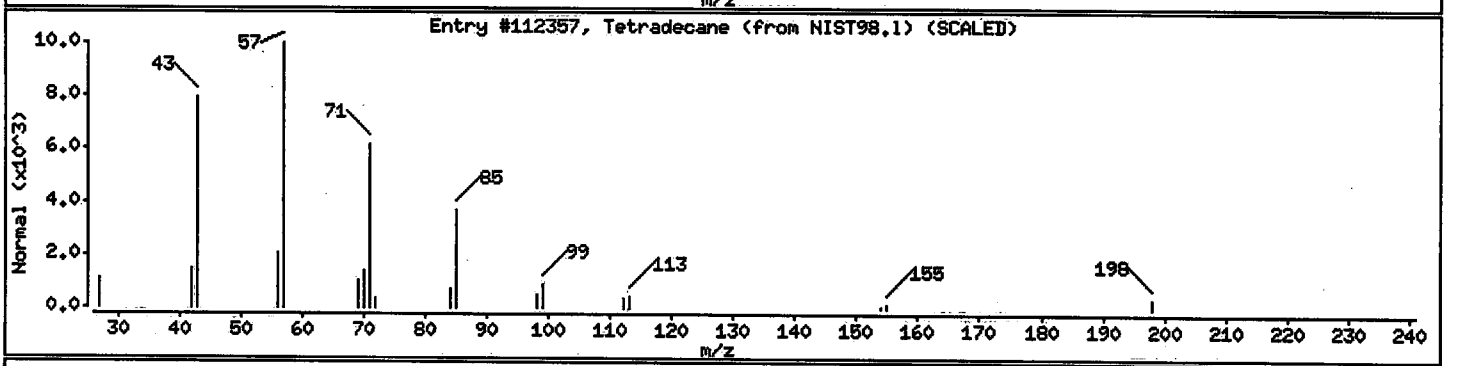
Operator: dce

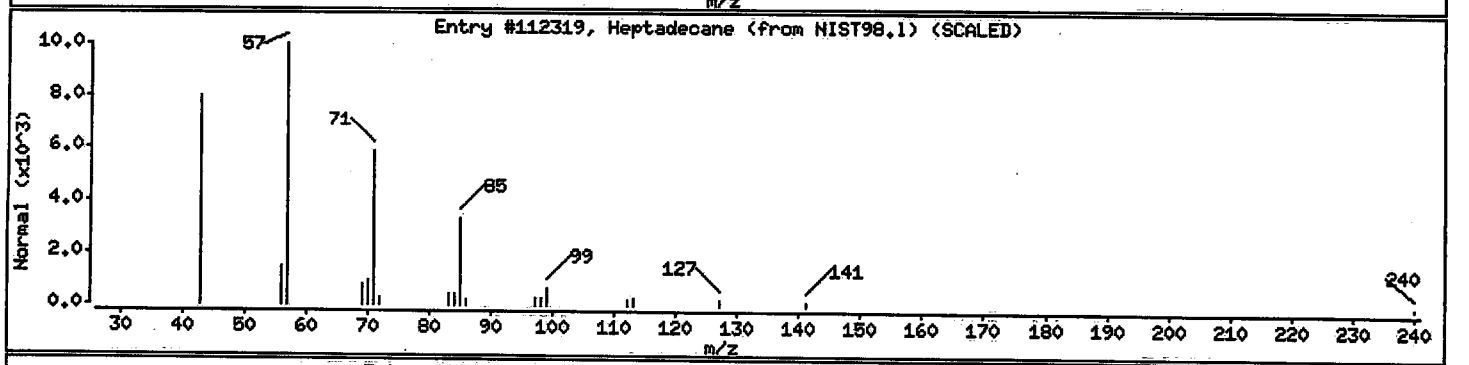
Column phase: ZB-5

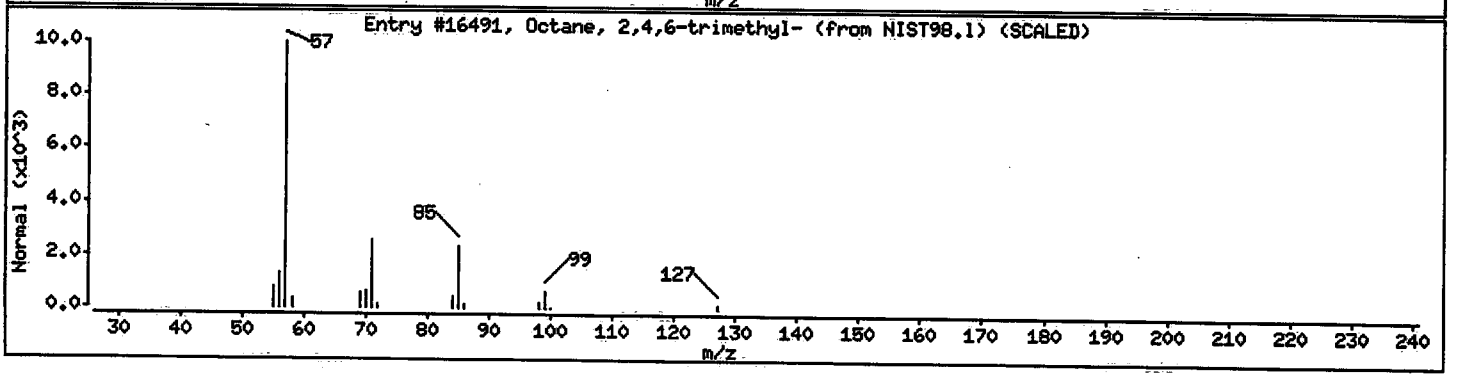
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112357	94	C14H30	198
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Octane, 2,4,6-trimethyl-	62016-37-9	NIST98.1	16491	80	C11H24	156









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

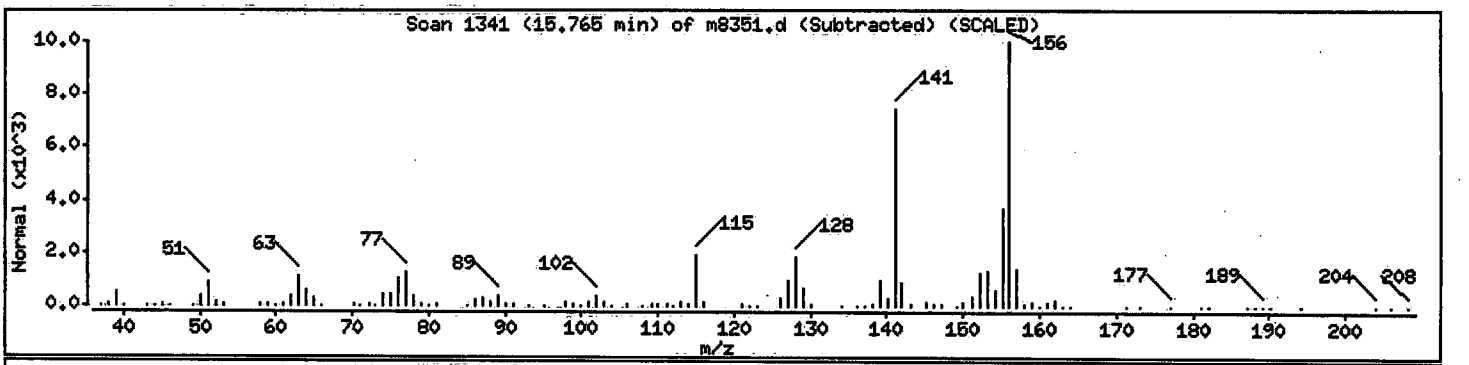
Volume Injected (uL): 2.0

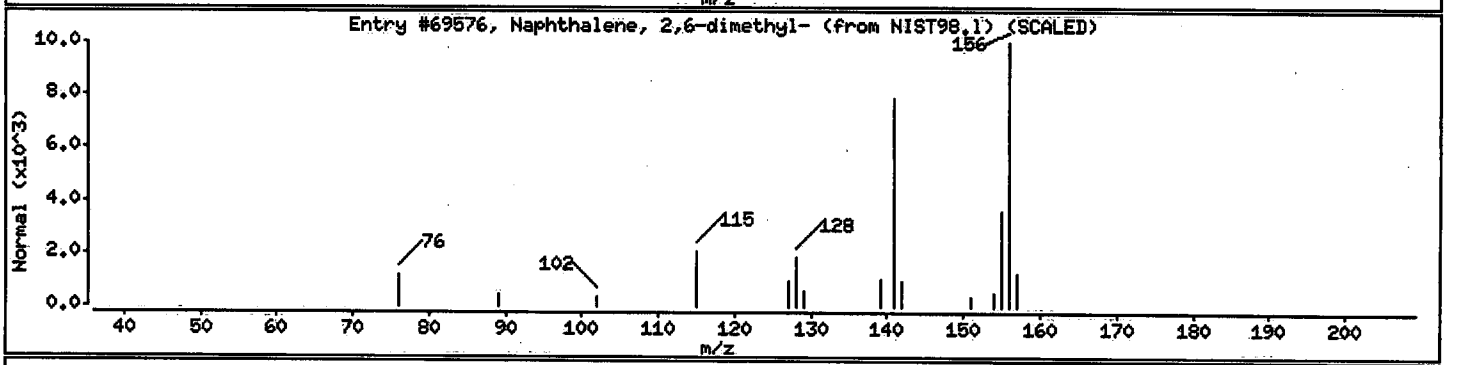
Operator: dce

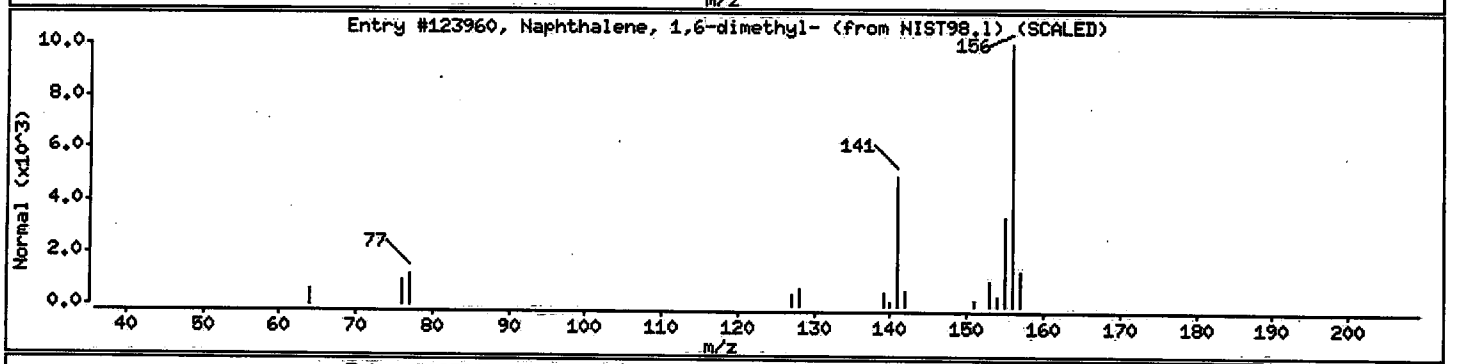
Column phase: ZB-5

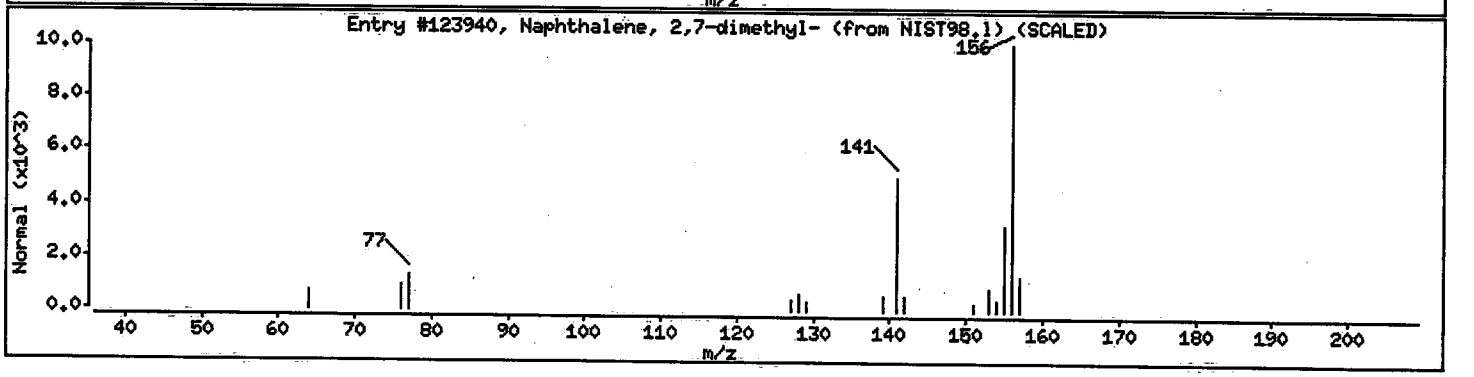
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,6-dimethyl-	581-42-0	NIST98.1	69576	98	C12H12	156
Naphthalene, 1,6-dimethyl-	575-43-9	NIST98.1	123960	97	C12H12	156
Naphthalene, 2,7-dimethyl-	582-16-1	NIST98.1	123940	97	C12H12	156









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

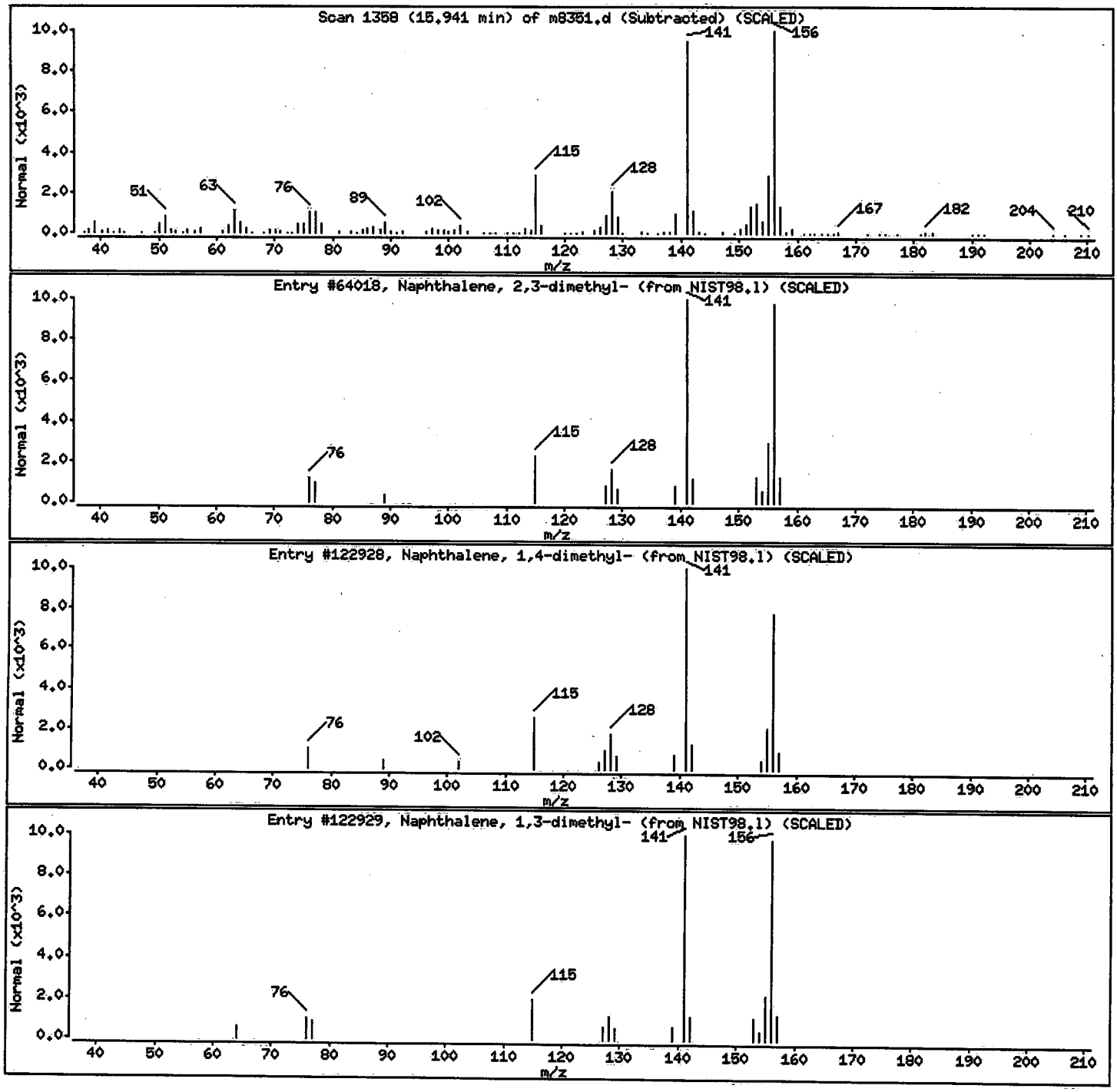
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,3-dimethyl-	581-40-8	NIST98.1	64018	98	C12H12	156
Naphthalene, 1,4-dimethyl-	571-58-4	NIST98.1	122928	96	C12H12	156
Naphthalene, 1,3-dimethyl-	575-41-7	NIST98.1	122929	96	C12H12	156



Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

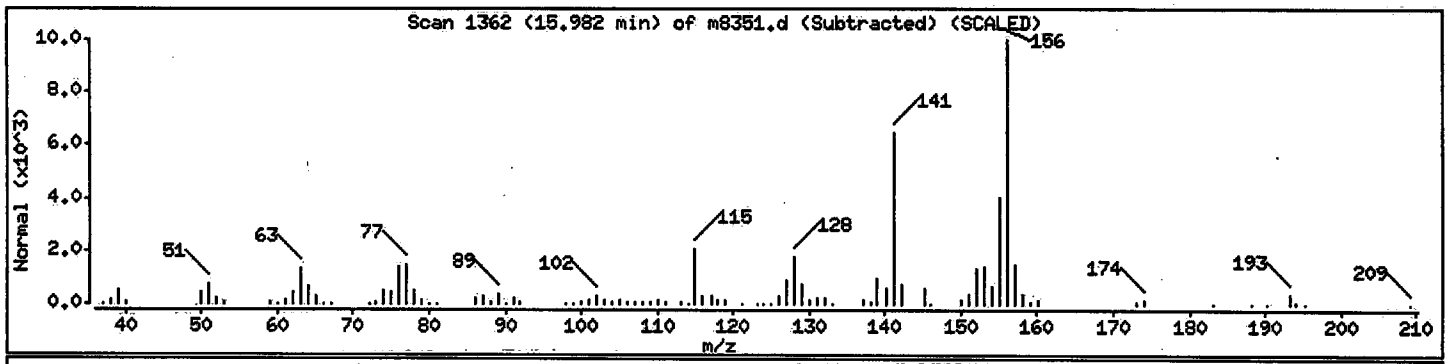
Client ID: Instrument: molly.i

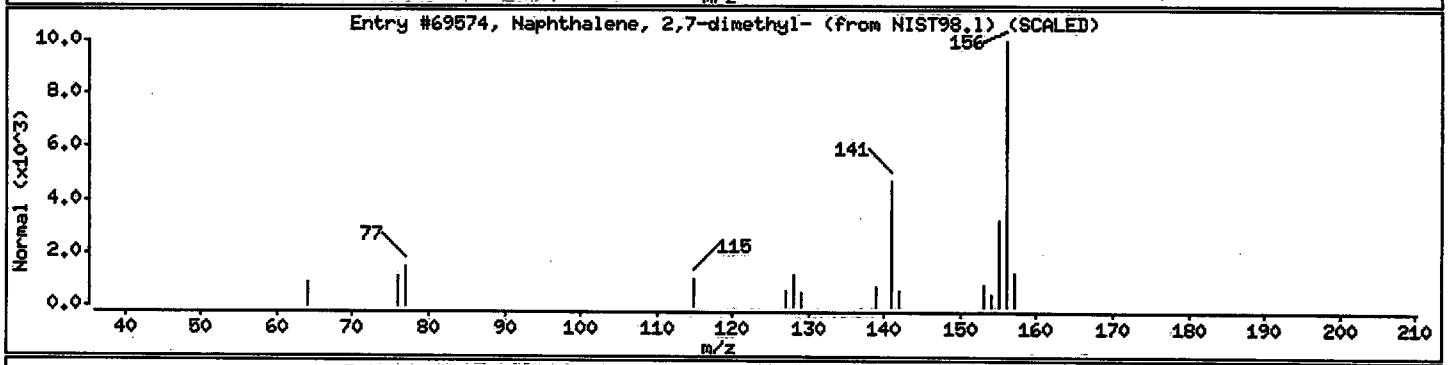
Sample Info: 0307090-04C

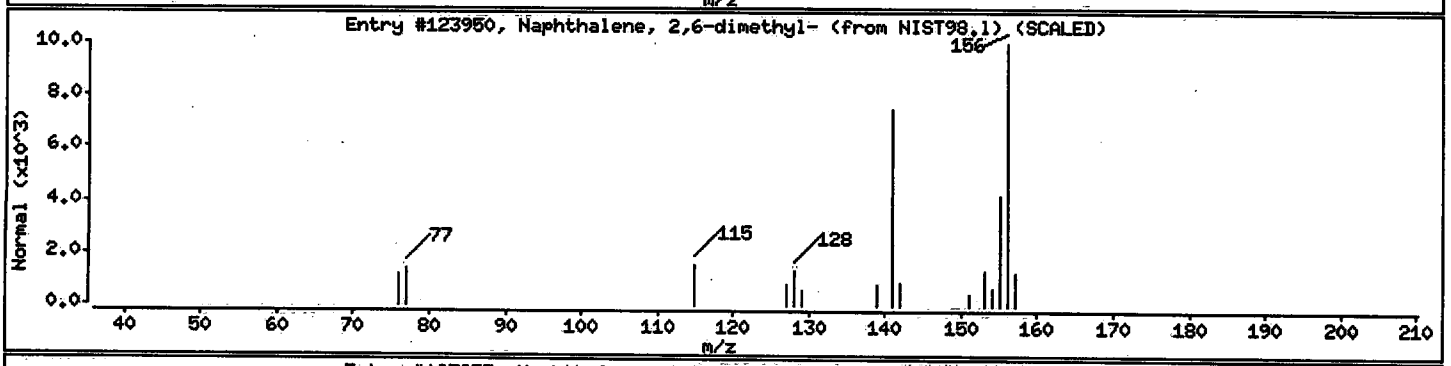
Volume Injected (uL): 2.0 Operator: dce

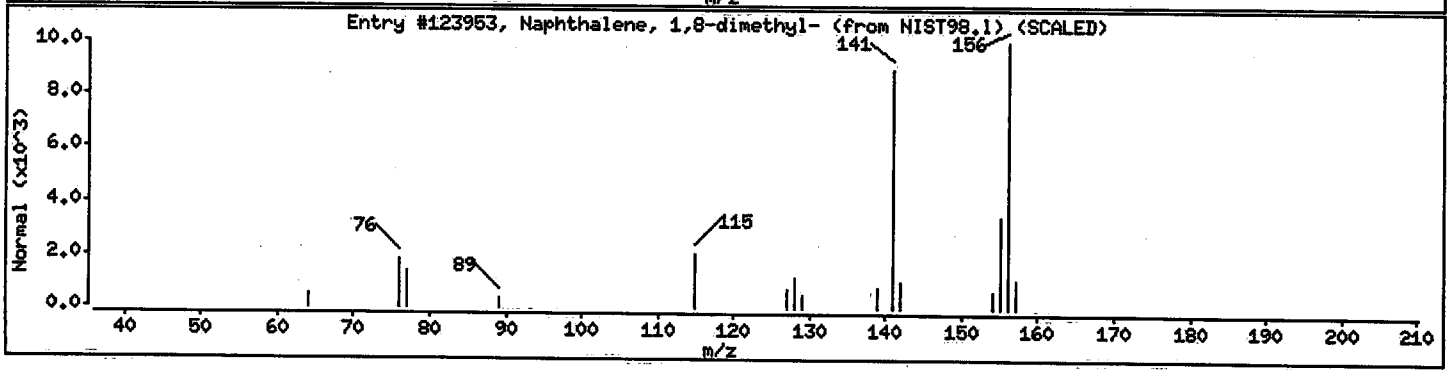
Column phase: ZB-5 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,7-dimethyl-	582-16-1	NIST98.1	69574	97	C12H12	156
Naphthalene, 2,6-dimethyl-	581-42-0	NIST98.1	123950	96	C12H12	156
Naphthalene, 1,8-dimethyl-	569-41-5	NIST98.1	123953	96	C12H12	156









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

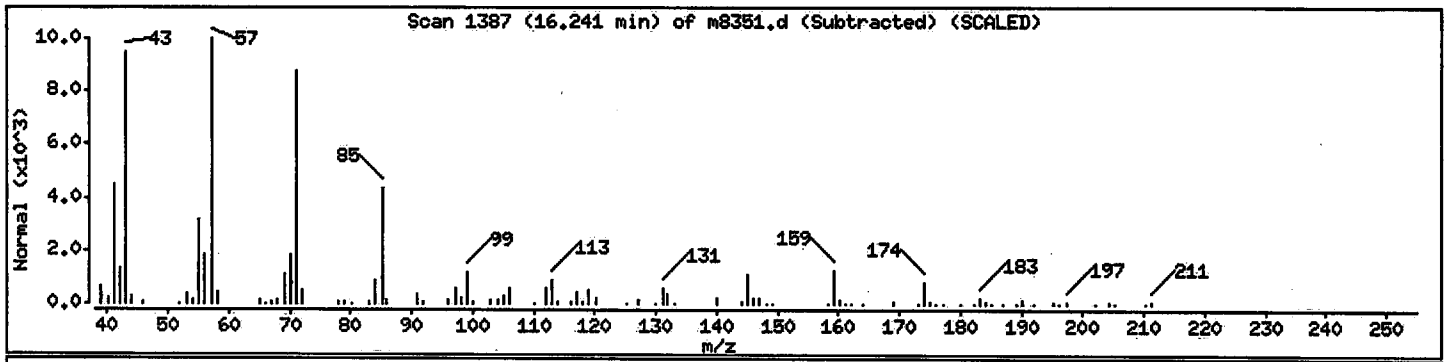
Volume Injected (uL): 2.0

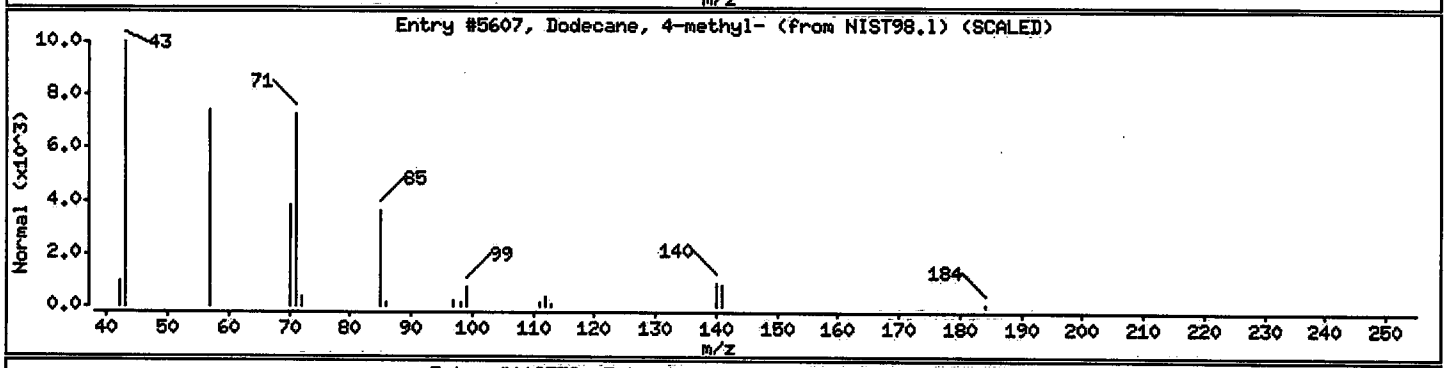
Operator: dce

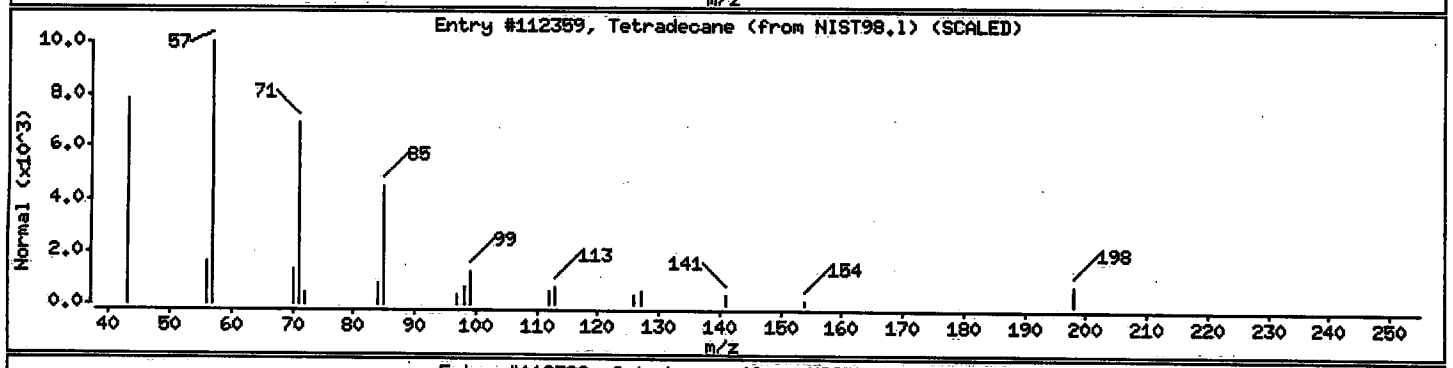
Column phase: ZB-5

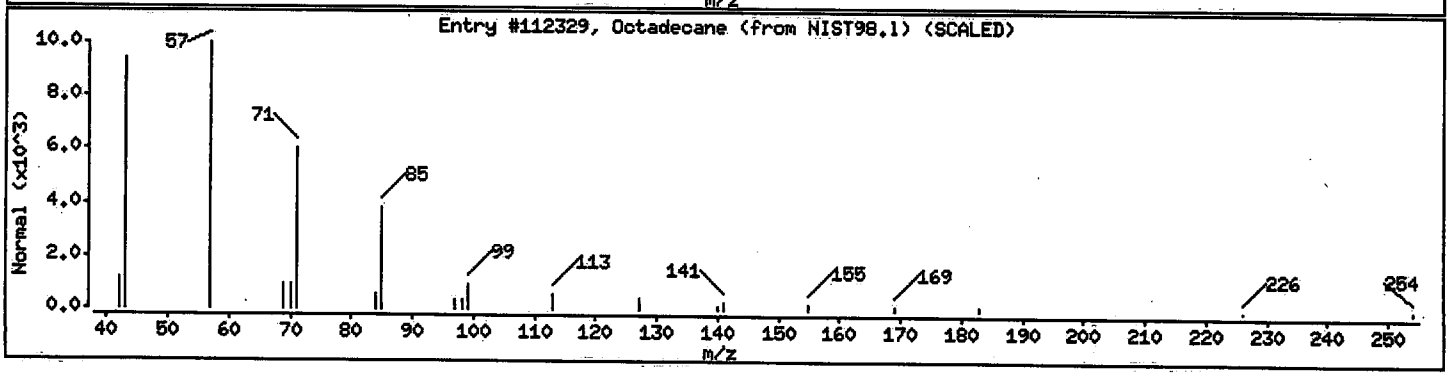
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 4-methyl-	6117-97-1	NIST98.1	5607	76	C13H28	184
Tetradecane	629-59-4	NIST98.1	112359	64	C14H30	198
Octadecane	593-45-3	NIST98.1	112329	64	C18H38	254









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

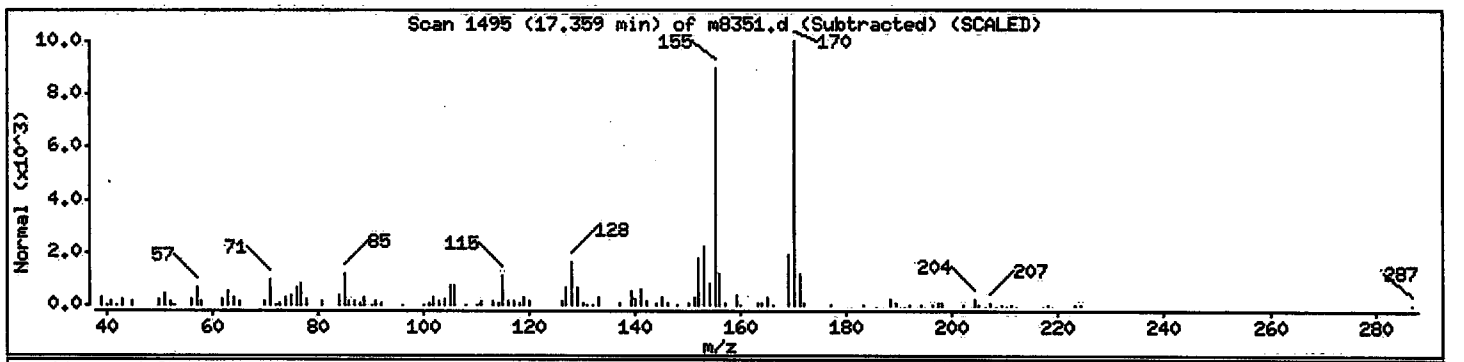
Volume Injected (uL): 2.0

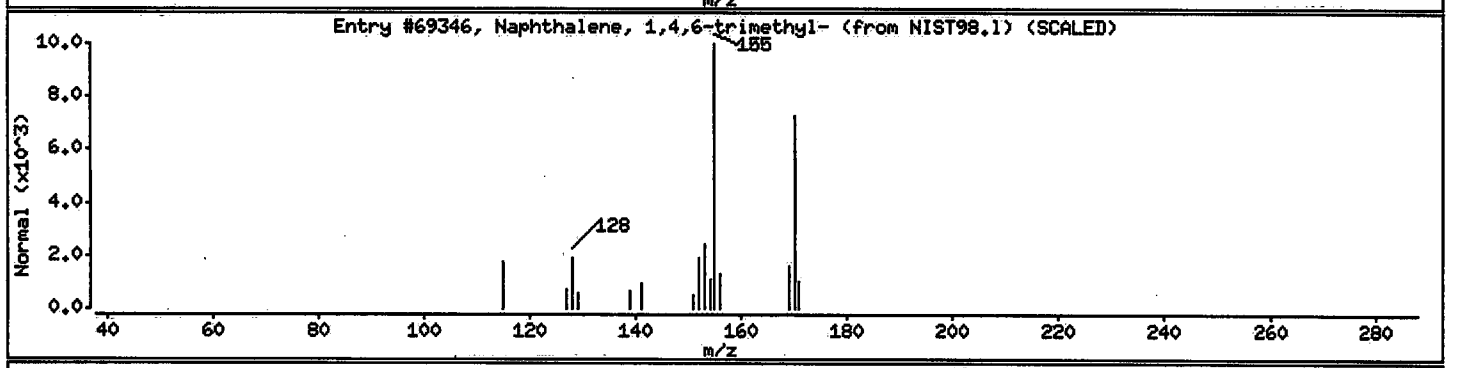
Operator: doe

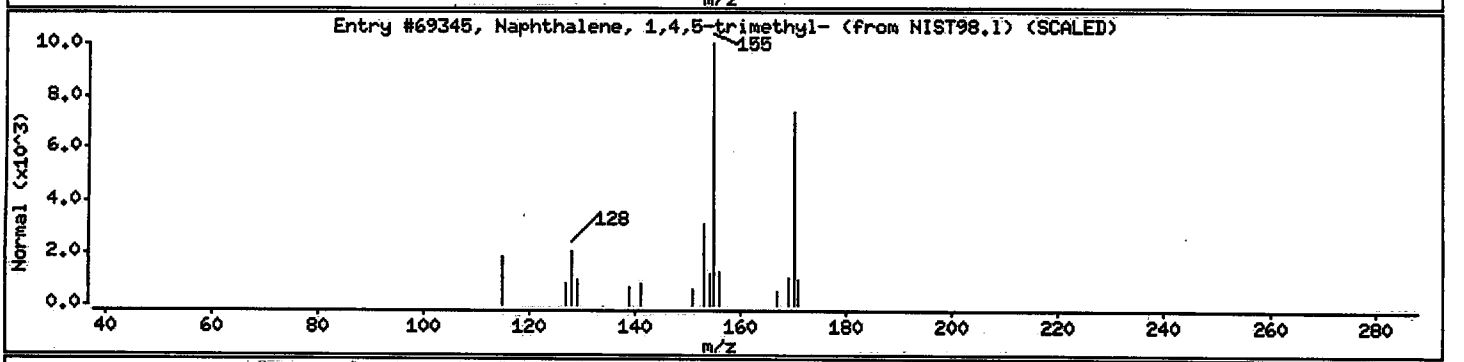
Column phase: ZB-5

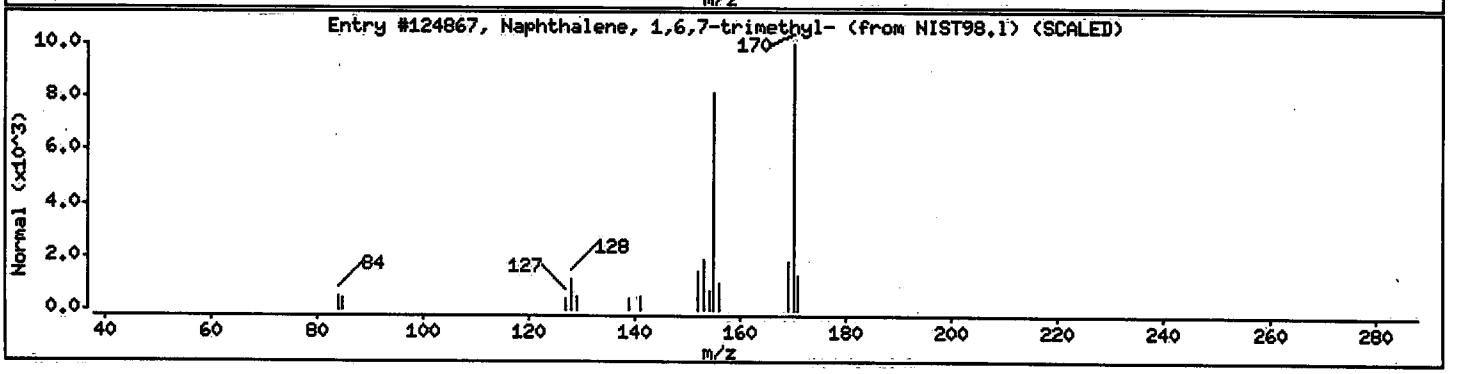
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,4,6-trimethyl-	2131-42-2	NIST98.1	69346	97	C13H14	170
Naphthalene, 1,4,5-trimethyl-	2131-41-1	NIST98.1	69345	95	C13H14	170
Naphthalene, 1,6,7-trimethyl-	2245-38-7	NIST98.1	124867	94	C13H14	170









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

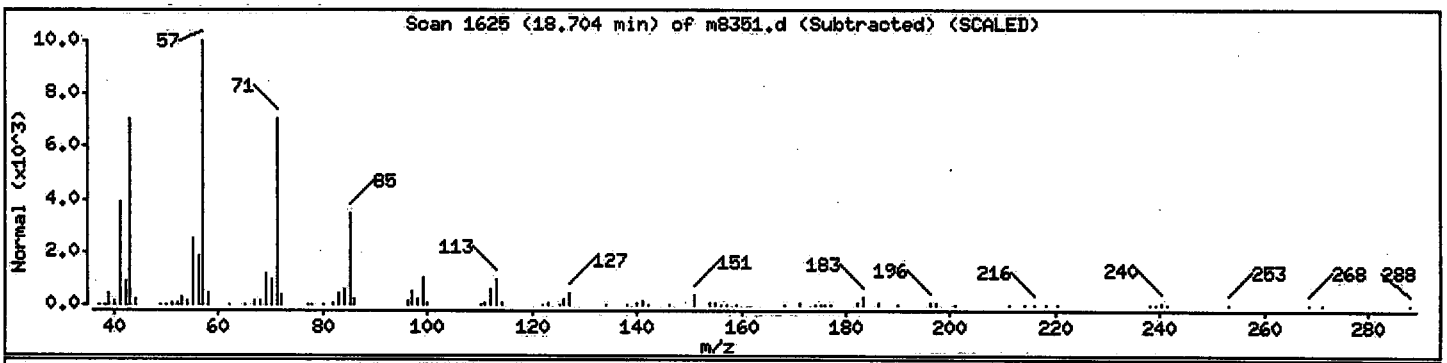
Volume Injected (uL): 2.0

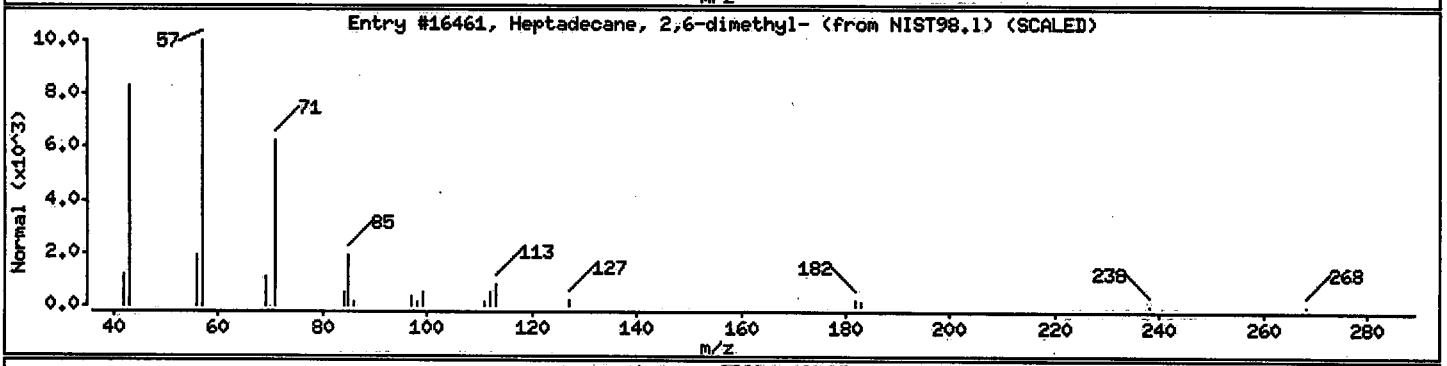
Operator: doe

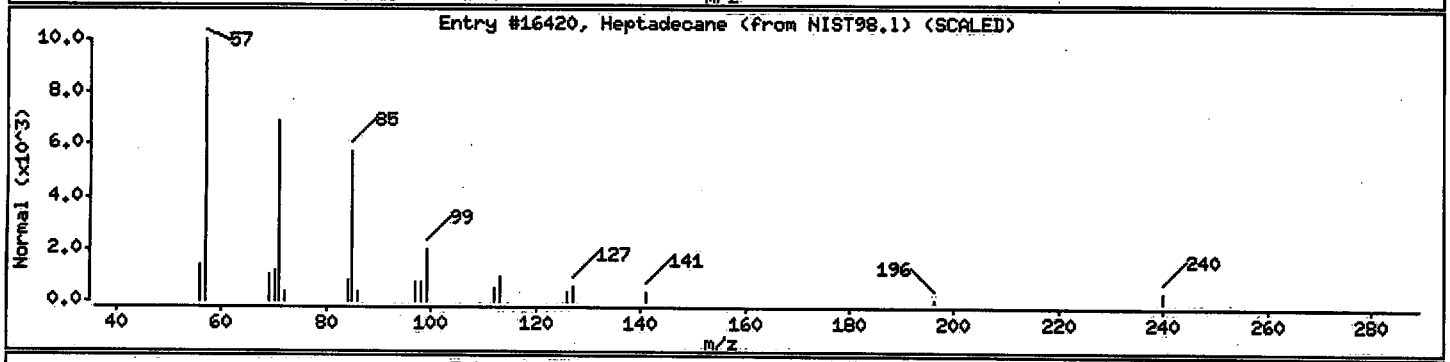
Column phase: ZB-5

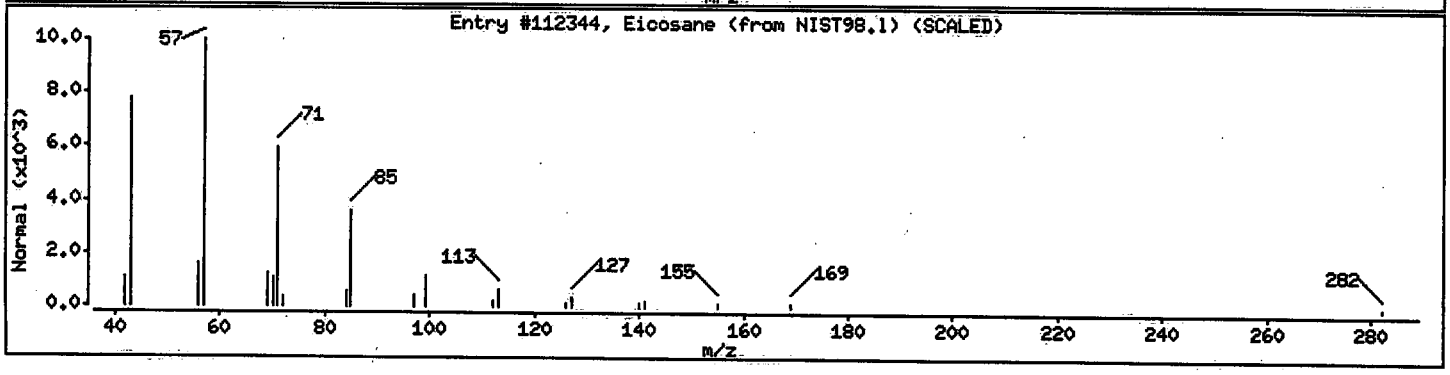
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecane, 2,6-dimethyl-	54105-67-8	NIST98.1	16461	91	C19H40	268
Heptadecane	629-78-7	NIST98.1	16420	87	C17H36	240
Eicosane	112-95-8	NIST98.1	112344	87	C20H42	282









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

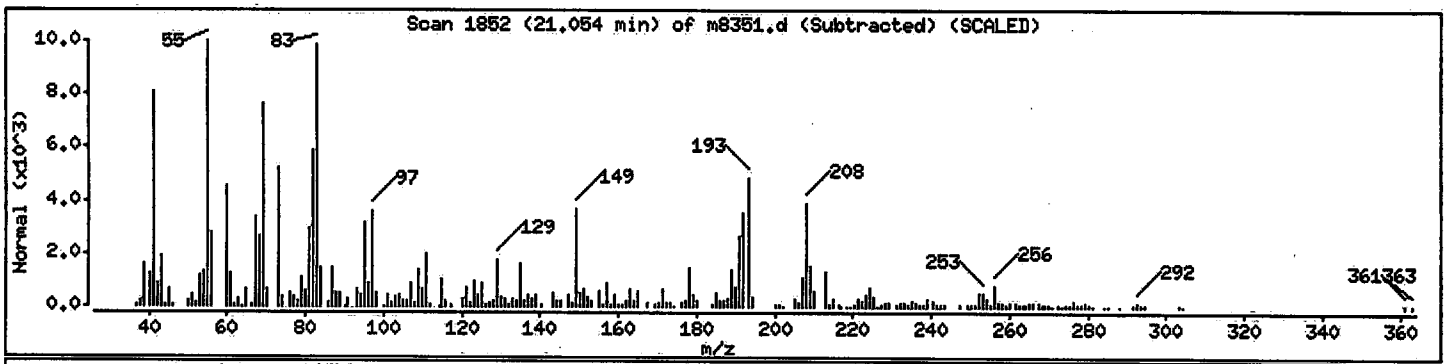
Volume Injected (uL): 2.0

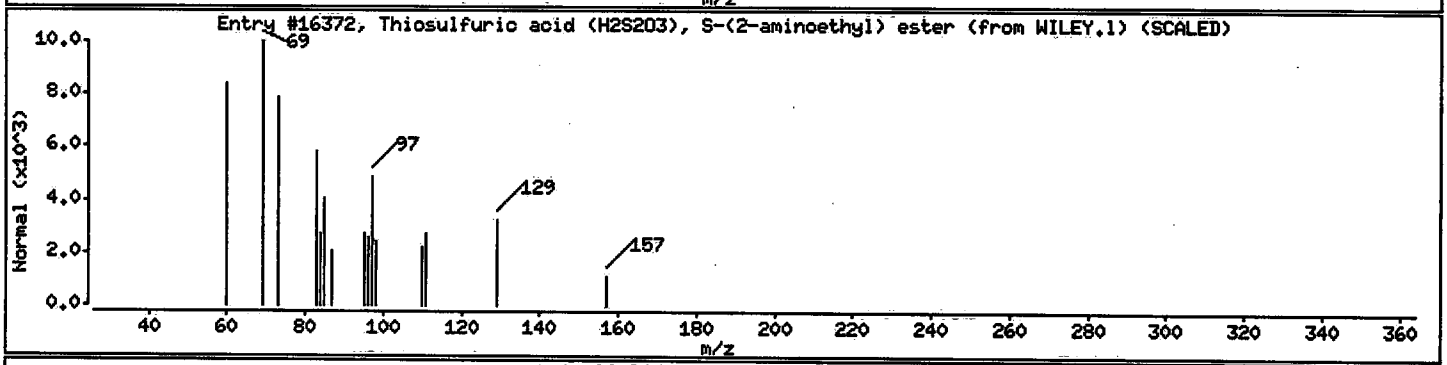
Operator: dce

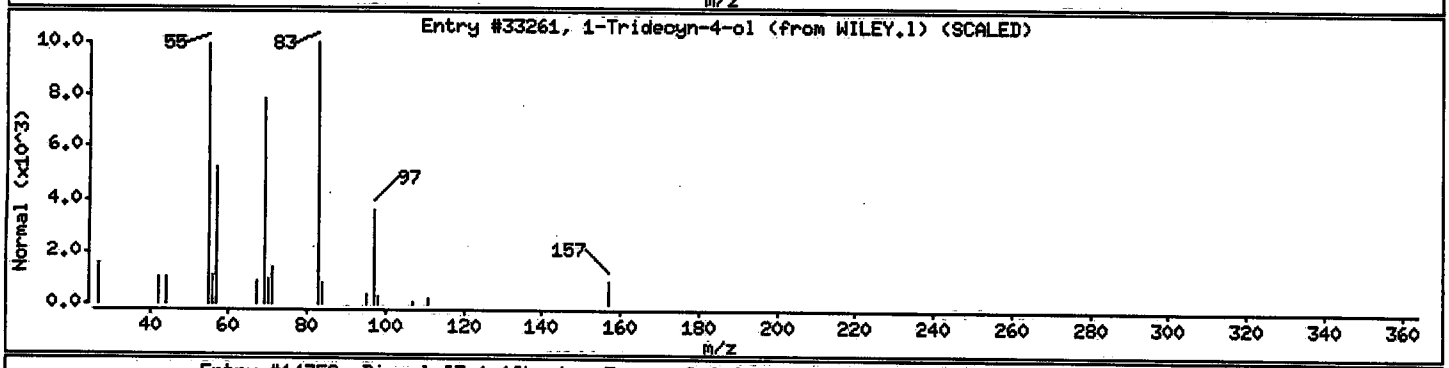
Column phase: ZB-5

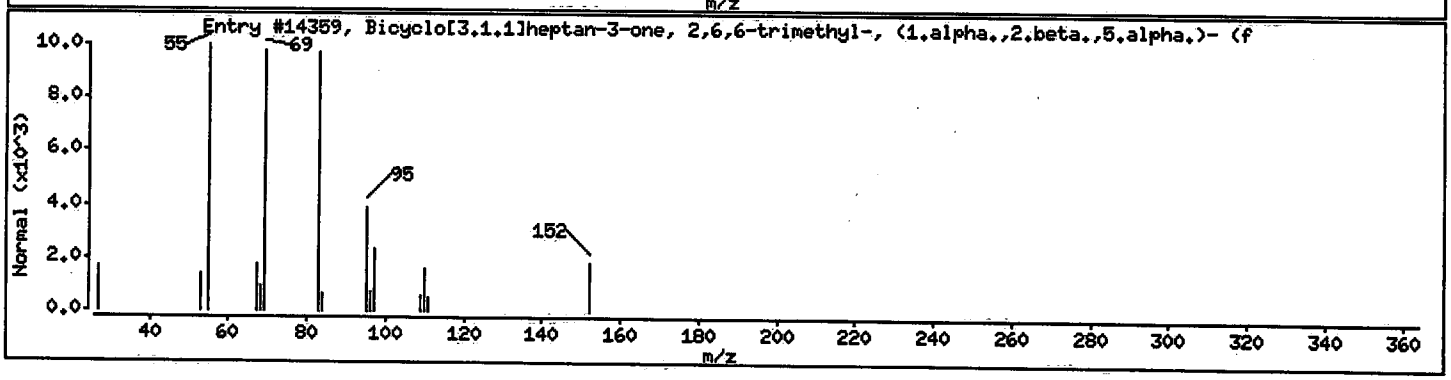
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Thiosulfuric acid (H2S2O3), S-(2-aminoet	2937-53-3	WILEY.1	16372	60	C2H7NO3S2	157
1-Tridecyn-4-ol	74646-37-0	WILEY.1	33261	35	C13H24O	196
Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimet	15358-88-0	WILEY.1	14359	35	C10H16O	152









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

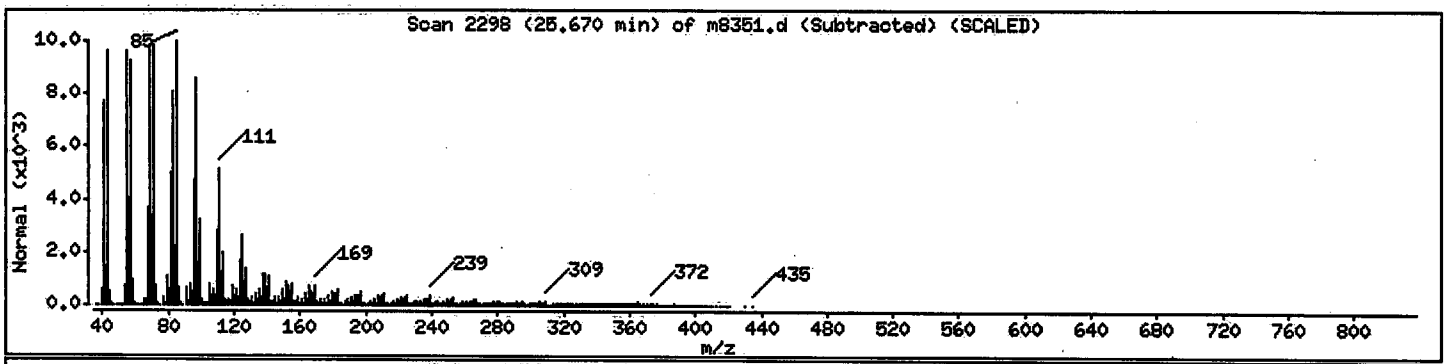
Volume Injected (uL): 2.0

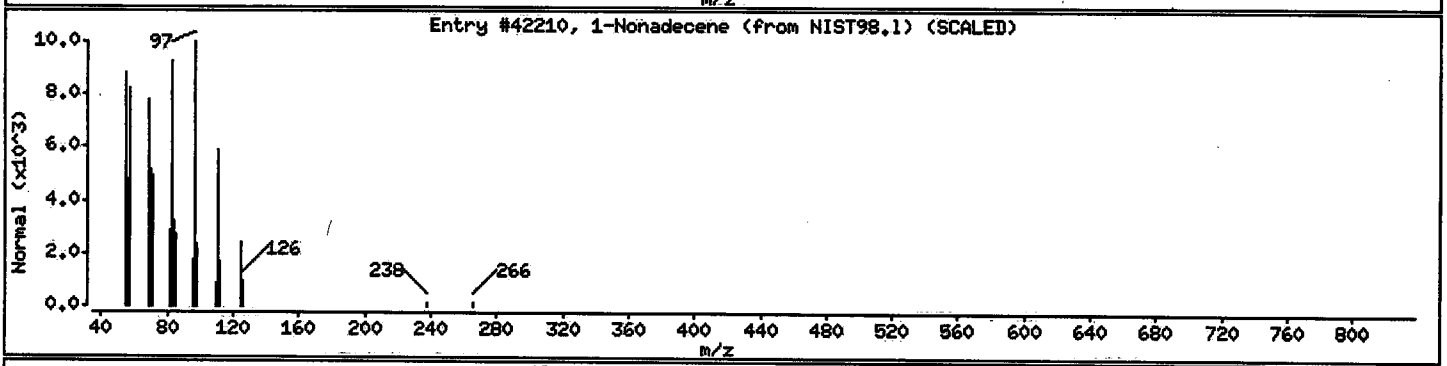
Operator: dce

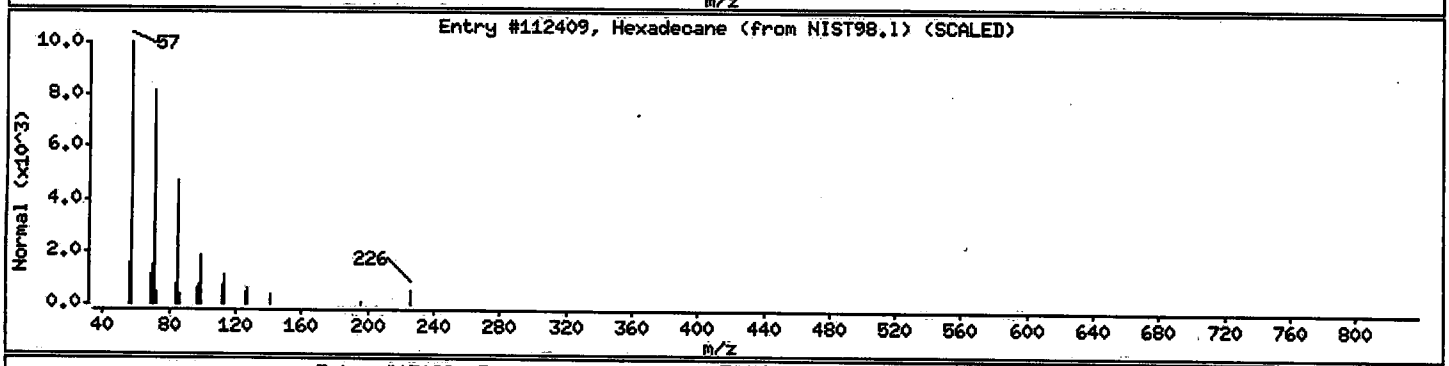
Column phase: ZB-5

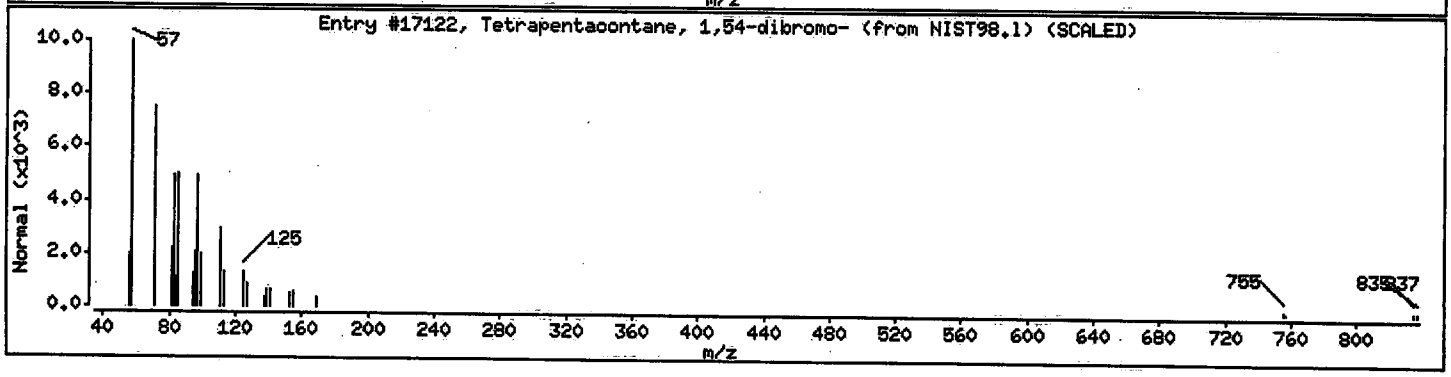
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Nonadecene	18435-45-5	NIST98.1	42210	94	C19H38	266
Hexadecane	544-76-3	NIST98.1	112409	70	C16H34	226
Tetrapentacontane, 1,54-dibromo-	1000156-09-4	NIST98.1	17122	58	C54H108Br2	915









Data File: /var/chem/molly.i/0307174m1r.b/m8351.d

Date : 17-JUL-2003 18:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

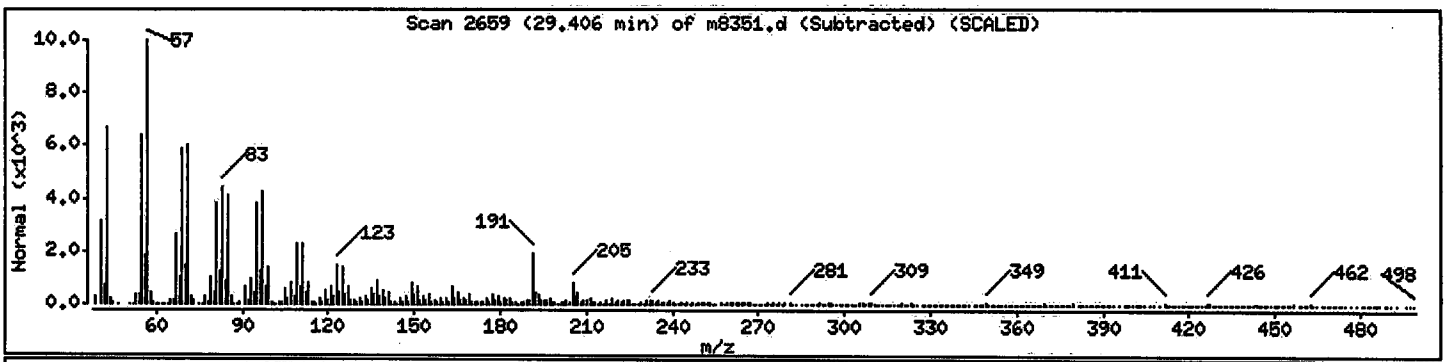
Volume Injected (uL): 2.0

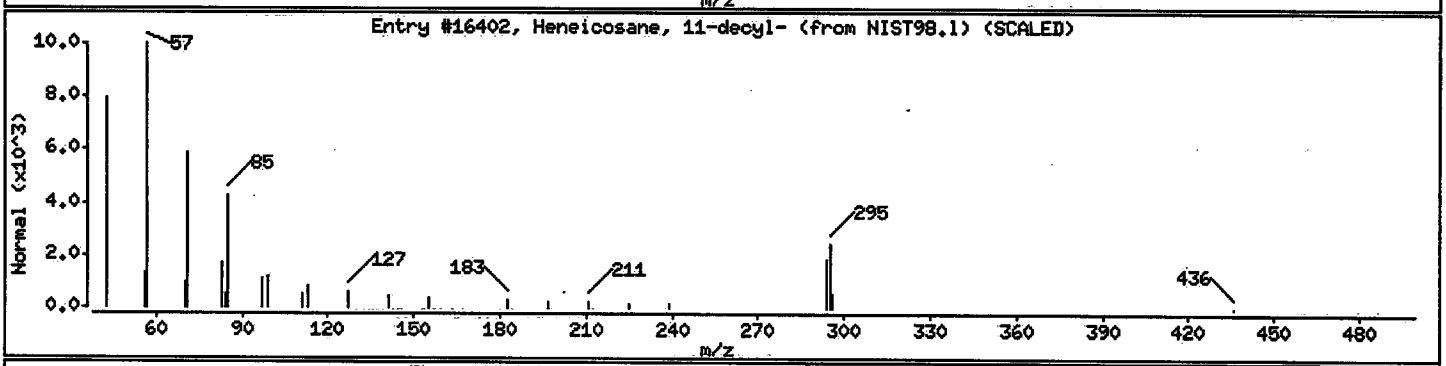
Operator: dce

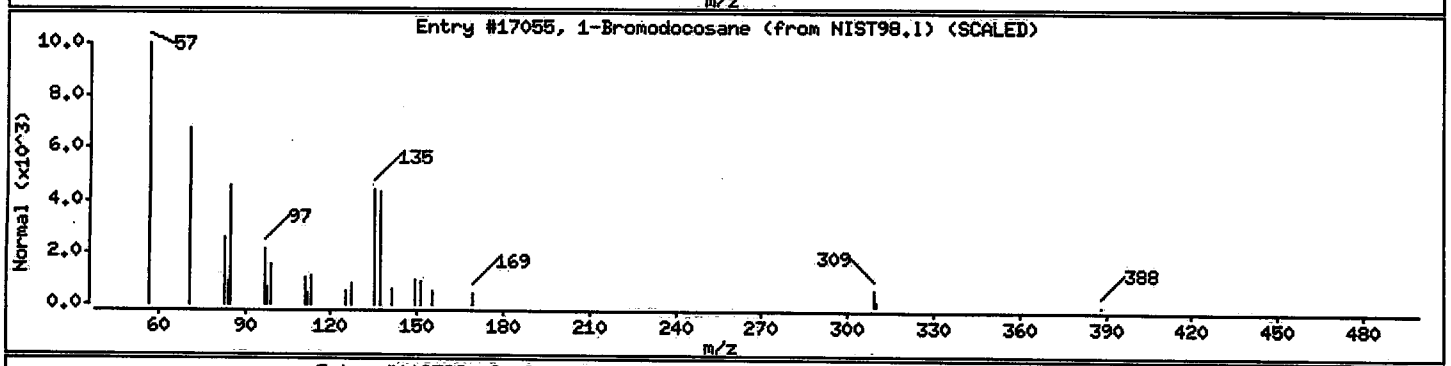
Column phase: ZB-5

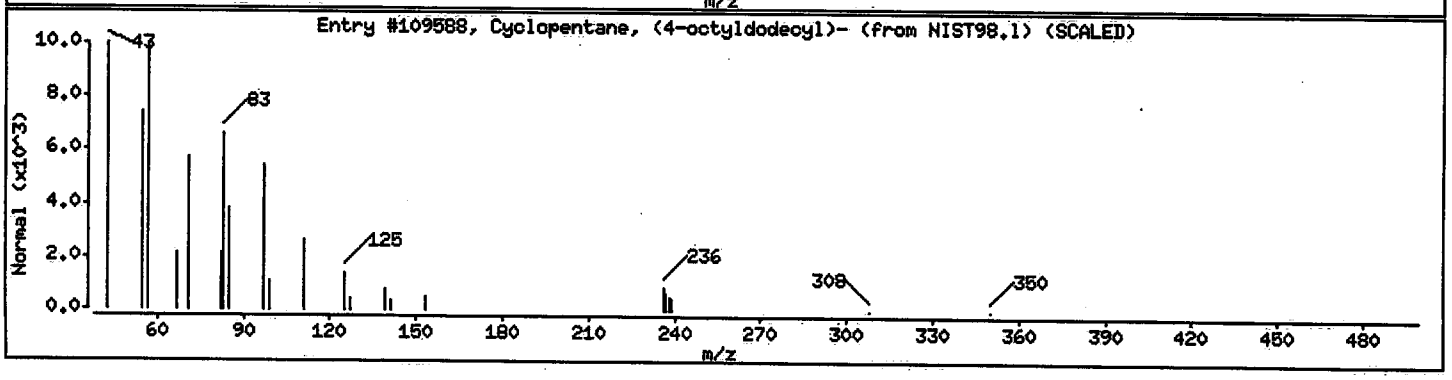
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane, 11-decyl-	55320-06-4	NIST98.1	16402	94	C31H64	437
1-Bromodocosane	6938-66-5	NIST98.1	17055	80	C22H45Br	388
Cyclopentane, (4-octyldodecyl)-	5638-09-5	NIST98.1	109588	70	C25H50	350









Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8351.d
Lab Smp Id: 0307090-04C
Inj Date : 17-JUL-2003 18:02
Operator : dce Inst ID: molly.i
Smp Info : 0307090-04C
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	1020.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.565	905980	40.000
* 30 Naphthalene-d8	12.836	1712498	40.000
* 47 Acenaphthene-d10	16.624	24248888	40.000
* 65 Phenanthrene-d10	19.646	271526599	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, 1-ethyl-3-methyl-					CAS #: 620-14-4		
8.313	4260307	188.097182	184	94	NIST98.1	119287	11
Benzene, 1,2,3-trimethyl-					CAS #: 526-73-8		
9.151	5574491	246.119823	241	94	NIST98.1	46796	11
Decane					CAS #: 124-18-5		
9.317	3682446	162.583979	159	76	NIST98.1	109556	11
Undecane					CAS #: 1120-21-4		
11.428	6318238	147.579389	145	91	NIST98.1	112395	30
Benzene, 1-ethyl-2,3-dimethyl-					CAS #: 933-98-2		
12.349	6021161	140.640350	138	70	NIST98.1	120728	30
Tetradecane					CAS #: 629-59-4		
13.022	10341166	241.545651	237	90	NIST98.1	112357	30
Naphthalene, 1,2,3,4-tetrahydro-6-methyl					CAS #: 1680-51-9		
14.015	6382129	149.071727	146	78	NIST98.1	122016	30
Tridecane					CAS #: 629-50-5		
14.357	10974449	256.337668	251	95	NIST98.1	112308	30
1,4-Methanonaphthalene, 1,4-dihydro-					CAS #: 4453-90-1		
14.647	5976454	139.596098	137	94	NIST98.1	63978	30
Ethyl 3-cyclohexenecarboxylate					CAS #: 15111-56-5		
14.926	10637529	17.5472435	17.2	72	NIST98.1	116167	47
Tetradecane					CAS #: 629-59-4		
15.558	11165961	18.4189250	18.0	94	NIST98.1	112357	47
Naphthalene, 2,6-dimethyl-					CAS #: 581-42-0		
15.765	7082099	11.6823482	11.4	98	NIST98.1	69576	47
Naphthalene, 2,3-dimethyl-					CAS #: 581-40-8		
15.941	6868614	11.3301920	11.1	98	NIST98.1	64018	47
Naphthalene, 2,7-dimethyl-					CAS #: 582-16-1		
15.982	3974824	6.55671108	6.43	97	NIST98.1	69574	47
Dodecane, 4-methyl-					CAS #: 6117-97-1		
16.241	4136691	6.82372055	6.69	76	NIST98.1	5607	47

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Naphthalene, 1,4,6-trimethyl-					CAS #: 2131-42-2		
17.359	6914540	11.4059498	11.2	97	NIST98.1	69346	47
Heptadecane, 2,6-dimethyl-					CAS #: 54105-67-8		
18.704	1.723e+08	25.3878018	24.9	91	NIST98.1	16461	65
Thiosulfuric acid (H2S2O3), S-(2-aminoet					CAS #: 2937-53-3		
21.054	4.583e+08	67.5204953	66.2	60	WILEY.1	16372	65
1-Nonadecene					CAS #: 18435-45-5		
25.670	4.278e+10	6301.46326	6180	94	NIST98.1	42210	65
Heneicosane, 11-decyl-					CAS #: 55320-06-4		
29.406	9.509e+08	140.089275	137	94	NIST98.1	16402	65

USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** DL **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	11.4	J	8.47	58.8	µg/L	3	7/18/2003 8:25:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	ND		8.76	58.8	µg/L	3			
1,2-Dichlorobenzene	ND		10.5	58.8	µg/L	3			
1,3-Dichlorobenzene	ND		11.4	58.8	µg/L	3			
1,4-Dichlorobenzene	ND		12.4	58.8	µg/L	3			
2,2´-Oxybis(1-chloropropane)	ND		14.1	58.8	µg/L	3			
2,4,5-Trichlorophenol	ND		15	147	µg/L	3			
2,4,6-Trichlorophenol	ND		18.5	58.8	µg/L	3			
2,4-Dichlorophenol	ND		15.6	58.8	µg/L	3			
2,4-Dimethylphenol	ND		17.5	58.8	µg/L	3			
2,4-Dinitrophenol	ND		17.8	147	µg/L	3			
2,4-Dinitrotoluene	ND		10.6	58.8	µg/L	3			
2,6-Dinitrotoluene	ND		9.41	58.8	µg/L	3			
2-Chloronaphthalene	ND		13	58.8	µg/L	3			
2-Chlorophenol	ND		16.8	58.8	µg/L	3			
2-Methylnaphthalene	203		10.4	58.8	µg/L	3			
2-Methylphenol	ND		19.7	58.8	µg/L	3			
2-Nitroaniline	ND		11.4	147	µg/L	3			
2-Nitrophenol	ND		18.9	58.8	µg/L	3			
3,3´-Dichlorobenzidine	ND		23.2	118	µg/L	3			
3-Nitroaniline	ND		12.1	147	µg/L	3			
4,6-Dinitro-2-methylphenol	ND		15.1	147	µg/L	3			
4-Bromophenyl phenyl ether	ND		12.9	58.8	µg/L	3			
4-Chloro-3-methylphenol	ND		14.5	58.8	µg/L	3			
4-Chloroaniline	ND		10.9	58.8	µg/L	3			
4-Chlorophenyl phenyl ether	ND		10.6	58.8	µg/L	3			
4-Methylphenol	ND		15.9	58.8	µg/L	3			
4-Nitroaniline	ND		13.5	147	µg/L	3			
4-Nitrophenol	ND		20.1	147	µg/L	3			
Acenaphthene	ND		7.82	58.8	µg/L	3			
Acenaphthylene	ND		7.59	58.8	µg/L	3			
Acetophenone	ND		9.29	58.8	µg/L	3			
Anthracene	8.46	J	6.59	58.8	µg/L	3			
Atrazine	ND		10.8	58.8	µg/L	3			
Benz(a)anthracene	10.7	J	7.88	58.8	µg/L	3			
Benzaldehyde	ND		11.1	58.8 UJ	µg/L	3			
Benzo(a)pyrene	7.35	J	6.71	58.8	µg/L	3			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** DL **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	16.4	J	11.5	58.8	µg/L	3			
Benzo(g,h,i)perylene	ND		8.82	58.8	µg/L	3			
Benzo(k)fluoranthene	ND		11.2	58.8	µg/L	3			
Benzoic acid	ND		25.3	147 UJ	µg/L	3			
Benzyl alcohol	ND		12.8	58.8	µg/L	3			
Bis(2-chloroethoxy)methane	ND		13.8	58.8	µg/L	3			
Bis(2-chloroethyl)ether	ND		13.2	58.8	µg/L	3			
Bis(2-ethylhexyl)phthalate	58.4	JB	17.8	58.8	µg/L	3			
Butyl benzyl phthalate	ND		8	58.8	µg/L	3			
Caprolactam	33.1	J	6.88	58.8	µg/L	3			
Carbazole	ND		7.59	58.8	µg/L	3			
Chrysene	14.2	J	7.65	58.8	µg/L	3			
Di-n-butyl phthalate	ND		13.8	58.8	µg/L	3			
Di-n-octyl phthalate	ND		20.2	58.8	µg/L	3			
Dibenz(a,h)anthracene	ND		8.06	58.8	µg/L	3			
Dibenzofuran	ND		8.29	58.8	µg/L	3			
Diethyl phthalate	ND		7.88	58.8	µg/L	3			
Dimethyl phthalate	ND		12.1	58.8	µg/L	3			
Fluoranthene	23.8	J	10.6	58.8	µg/L	3			
Fluorene	14.4	J	8.06	58.8	µg/L	3			
Hexachlorobenzene	ND		9.71	58.8	µg/L	3			
Hexachlorobutadiene	ND		9.47	58.8	µg/L	3			
Hexachlorocyclopentadiene	ND		7.71	147 UJ	µg/L	3			
Hexachloroethane	ND		11.2	58.8	µg/L	3			
Indeno(1,2,3-cd)pyrene	ND		20.4	58.8	µg/L	3			
Isophorone	ND		9.35	58.8	µg/L	3			
N-Nitrosodi-n-propylamine	ND		11.7	58.8	µg/L	3			
N-Nitrosodimethylamine	ND		10.6	58.8	µg/L	3			
N-Nitrosodiphenylamine	ND		9.82	58.8	µg/L	3			
Naphthalene	121		8.65	58.8	µg/L	3			
Nitrobenzene	ND		10.7	58.8	µg/L	3			
Pentachlorophenol	ND		18.8	147	µg/L	3			
Phenanthrene	32.2	J	7.65	58.8	µg/L	3			
Phenol	ND		21.5	58.8	µg/L	3			
Pyrene	12.4	J	6.29	58.8	µg/L	3			
Surr:2,4,6-Tribromophenol	113			32 - 162	%REC	3	7/18/2003 8:25:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	80			38 - 129	%REC	3			

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DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-04C **Sample Type:** DL **Matrix:** Water

Client Sample ID: BBW-W-02
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	52			15 - 142	%REC	3			
Surr:Nitrobenzene-d5	92			45 - 118	%REC	3			
Surr:Phenol-d5	81			18 - 136	%REC	3			
Surr:Terphenyl-d14	56			10 - 154	%REC	3			

Definitions:

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P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
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USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Client Sample ID: BBW-W-02
Lab Order: 0307090
Alt. Client ID:
Project: START RFP 3481
Collection Date: 7/9/2003 9:30:00 AM
Lab ID: 0307090-04C **Sample Type:** DL **Matrix:** WATER **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3520C_TCL_W

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
1120-21-4	Undecane	11.38	190	NJ	µg/L	3	87	7/18/2003 8:25:00 PM	MOLLY_030718A	
768-00-3	Benzene, (1-methyl-1-propenyl)-, (E)-	12.28	210	NJ	µg/L	3	87			
629-59-4	Tetradecane (12.969)	12.97	300	NJ	µg/L	3	83			
629-59-4	Tetradecane (14.304)	14.3	270	NJ	µg/L	3	90			
4175-54-6	Naphthalene, 1,2,3,4-tetrahydro-1,4-dime	14.66	170	NJ	µg/L	3	78			
15111-56-5	Ethyl 3-cyclohexenecarboxylate	14.87	52	NJ	µg/L	3	72			
629-59-4	Tetradecane (15.494)	15.49	60	NJ	µg/L	3	97			
544-76-3	Hexadecane	17.62	83	NJ	µg/L	3	95			
4104-56-7	Cyclohexene, 3-(2-methylpropyl)-	17.88	39	NJ	µg/L	3	42			
629-78-7	Heptadecane	18.58	84	NJ	µg/L	3	98			
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	18.63	60	NJ	µg/L	3	87			
593-45-3	Octadecane	19.48	80	NJ	µg/L	3	93			
629-92-5	Nonadecane	20.35	96	NJ	µg/L	3	97			
613-12-7	Anthracene, 2-methyl-	20.65	62	NJ	µg/L	3	93			
3178-24-3	Cyclohexane, 1,1'-(1,3-propanediyl)bis-	20.98	110	NJ	µg/L	3	58			
112-95-8	Eicosane	21.19	180	NJ	µg/L	3	93			
14905-56-7	Tetradecane, 2,6,10-trimethyl-	21.52	130	NJ	µg/L	3	68			
1576-67-6	Phenanthrene, 3,6-dimethyl-	21.81	190	NJ	µg/L	3	66			
1000151-22-5	Cyclooctadecane, ethyl-	23.66	3800	NJ	µg/L	3	89			
61141-72-8	Dodecane, 4,6-dimethyl-	25.83	27000	NJ	µg/L	3	60			
55320-06-4	Heneicosane, 11-decyl- (25.969)	25.97	150000	NJ	µg/L	3	84			
55320-06-4	Heneicosane, 11-decyl- (28.505)	28.51	26000	NJ	µg/L	3	93			

Number TICs Found: 22

Definitions:

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DF - Dilution Factor
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D - Diluted due to maxtrix or extended target compounds
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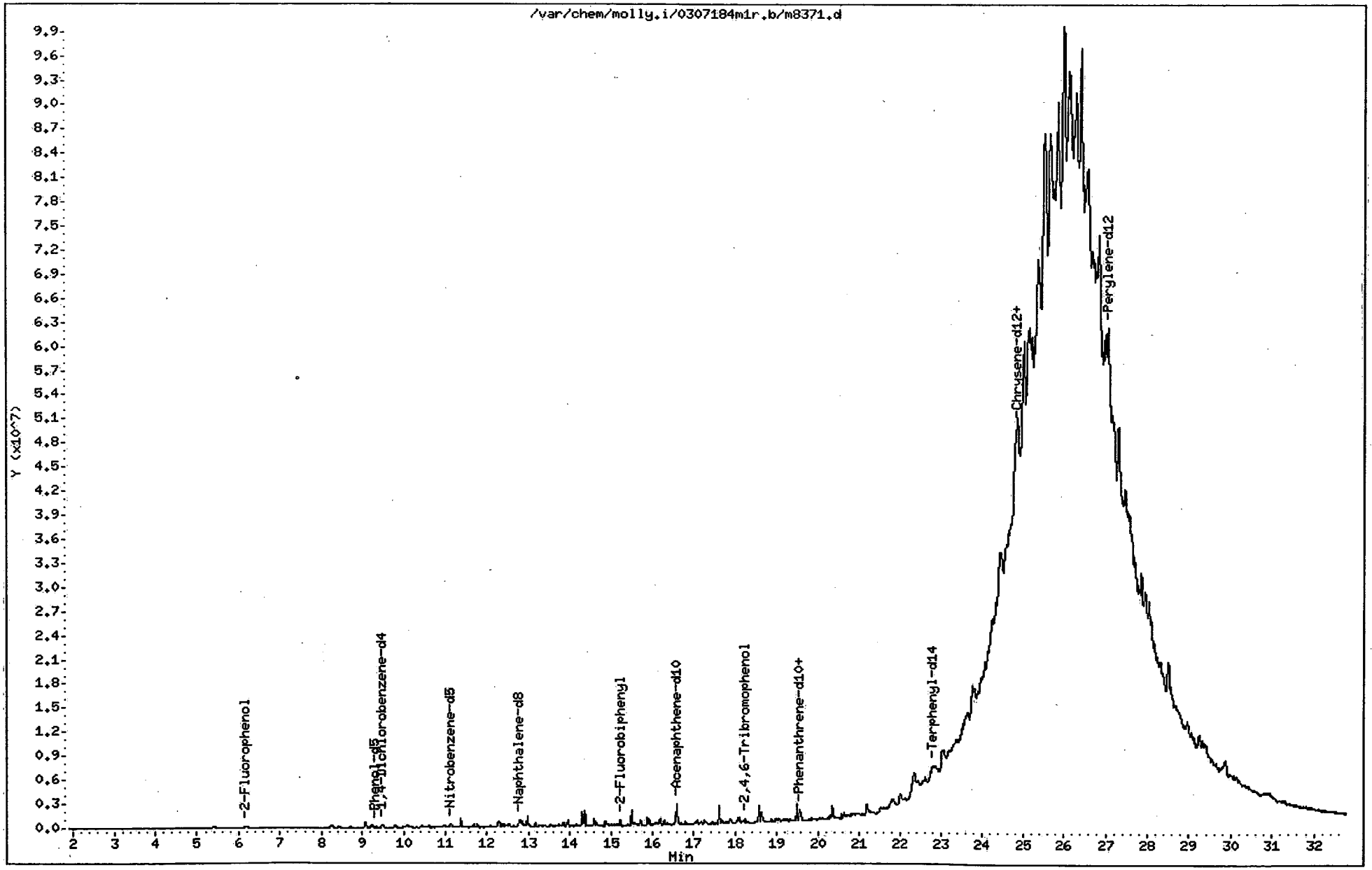
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

570

Data File: /var/chem/molly.i/0307184m1r.b/m8371.d
Date : 18-JUL-2003 20:26
Client ID:
Sample Info: 0307090-04C
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8371.d
Lab Smp Id: 0307090-04C
Inj Date : 18-JUL-2003 20:25
Operator : dce Inst ID: molly.i
Smp Info : 0307090-04C
Misc Info : 0307184m1r;comx40;{},1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	1020.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	6.169	5.995	(0.650)	46572	10.4666	10.3(aRM) Ok 7/21/03
$ 6 Phenol-d5	99	9.336	9.121	(0.984)	103913	16.2329	15.9(aR)
* 11 1,4-Dichlorobenzene-d4	152	9.491	9.494	(1.000)	141287	40.0000	
15 2-Methylphenol	108	10.858	10.736	(1.144)	18303	3.60405	10.6(a) < MOL
18 4-Methylphenol	108	11.282	11.129	(1.189)	14525	2.62174	7.71(a) < MOL
$ 21 Nitrobenzene-d5 NO KK 7/22/03	82	11.137	11.129	(0.872)	104837	15.2726	15.0(aR)
~~25 2,4-Dimethylphenol~~	~~107~~	~~12.420~~	~~12.319~~	~~(0.972)~~	~~23013~~	~~3.64281~~	~~10.7(aQH)~~ < MOL
27 Benzoic acid	122	12.741	12.723	(0.998)	14117	4.78859	14.1(aQ) < MOL
* 30 Naphthalene-d8	136	12.772	12.775	(1.000)	504788	40.0000	
31 Naphthalene	128	12.824	12.816	(1.004)	603730	41.1387	121
34 Caprolactam	113	13.807	13.758	(1.081)	18606	11.2407	33.1(Q)
36 2-Methylnaphthalene	141	14.366	14.369	(1.125)	602560	69.1542	203
$ 40 2-Fluorobiphenyl	172	15.225	15.228	(0.919)	151404	13.3073	13.0(aR)

KK 7/22/03

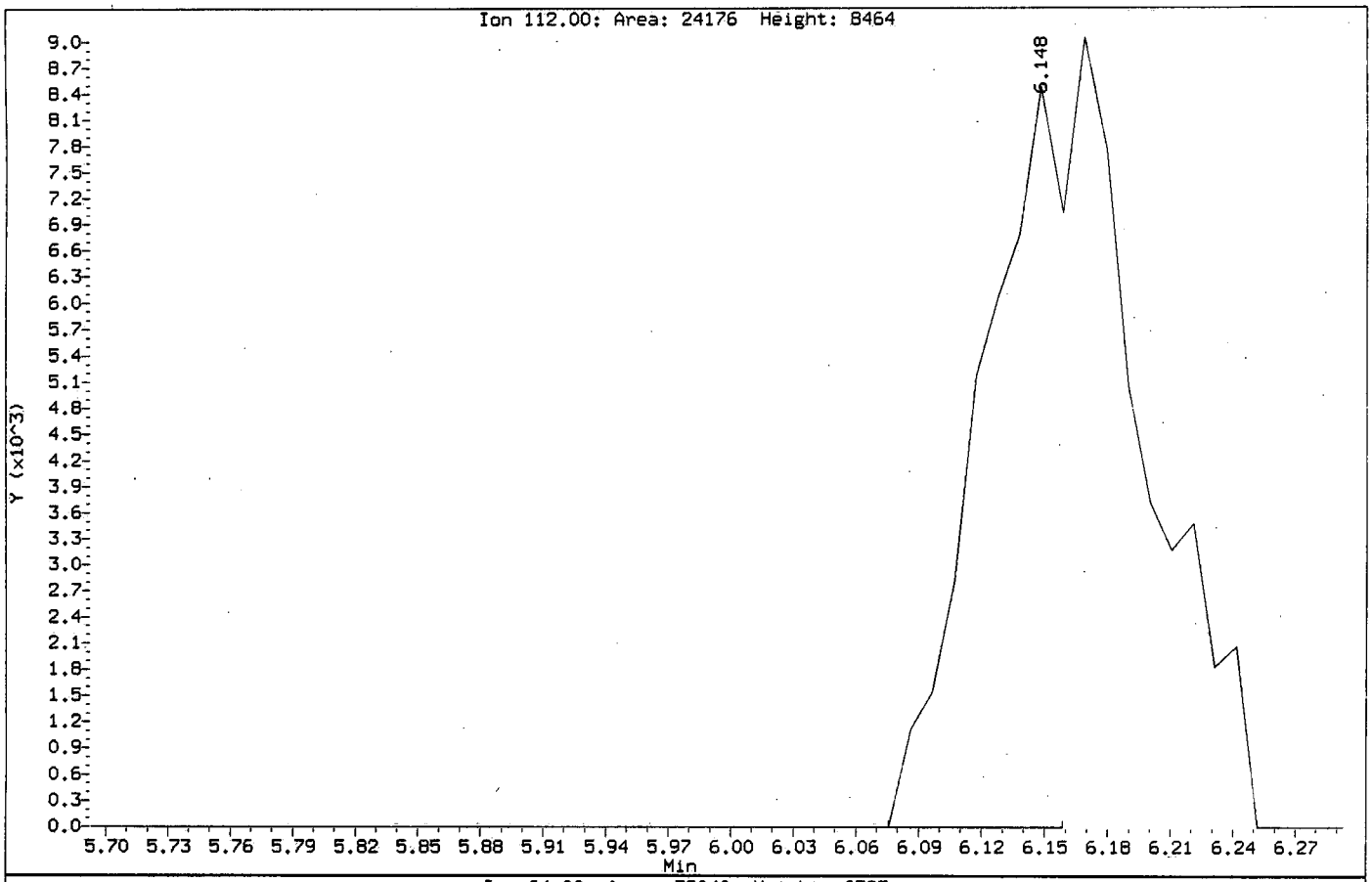
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
42 Biphenyl	154	15.401	15.393	(0.929)	52740	3.87616	11.4(a)
45 Acenaphthylene	152	16.250	16.242	(0.981)	39408	2.29496	6.75(a) <MDL
* 47 Acenaphthene-d10	164	16.571	16.563	(1.000)	335979	40.0000	
55 Fluorene	166	17.668	17.670	(1.066)	61992	4.90865	14.4(a)
$ 60 2,4,6-Tribromophenol	330	18.227	18.219	(1.100)	34667	22.5655	22.1(aR)
* 65 Phenanthrene-d10	188	19.541	19.544	(1.000)	745101	40.0000	
66 Phenanthrene	178	19.593	19.585	(1.003)	239566	10.9562	32.2
67 Anthracene	178	19.686	19.678	(1.007)	65098	2.87699	8.46(a)
70 Fluoranthene	202	22.005	21.997	(1.126)	215962	8.08739	23.8(a)
72 Pyrene	202	22.450	22.431	(0.903)	381331	4.21103	12.4(a)
$ 73 Terphenyl-d14	244	22.853	22.835	(0.919)	535126	9.39125	9.21(aR)
75 Benzo(a)anthracene	228	24.830	24.791	(0.999)	349159	3.63515	10.7(aQ)
* 77 Chrysene-d12	240	24.861	24.812	(1.000)	3284151	40.0000	
78 Chrysene	228	24.892	24.853	(1.001)	443208	4.81081	14.1(aH)
79 Bis(2-ethylhexyl)phthalate	149	25.089	25.040	(1.009)	1362901	19.8507	58.4(aQ)
81 Benzo(b)fluoranthene	252	26.507	26.406	(0.980)	485258	5.58465	16.4(a)
83 Benzo(a)pyrene	252	26.952	26.861	(0.997)	191410	2.50043	7.35(aQH)
* 84 Perylene-d12	264	27.035	26.944	(1.000)	1805202	40.0000	

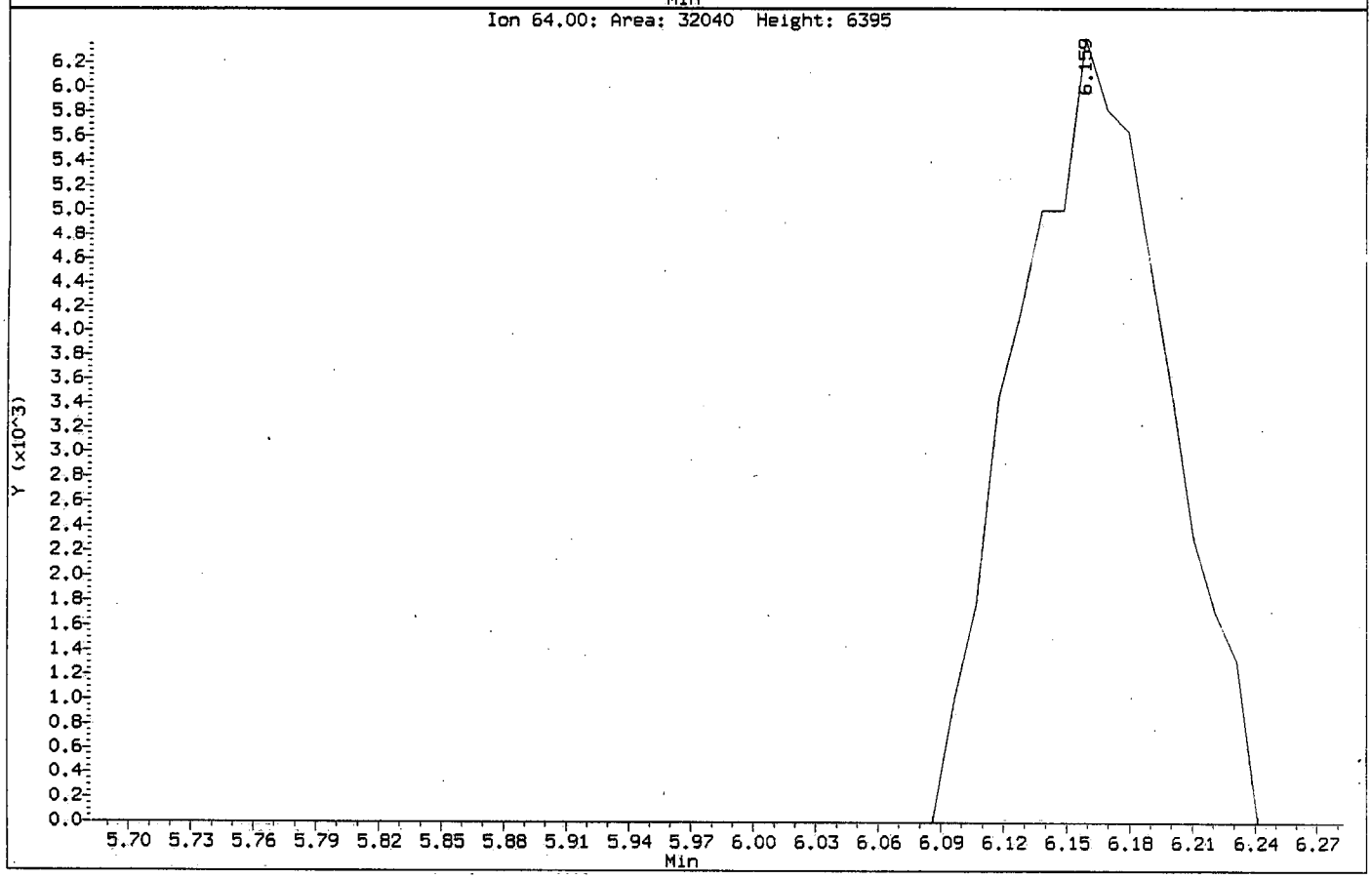
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8371.d
Injection Date: 18-JUL-2003 20:25
Instrument: molly.i
Client Sample ID:

Compound: 2-Fluorophenol
CAS Number: 367-12-4

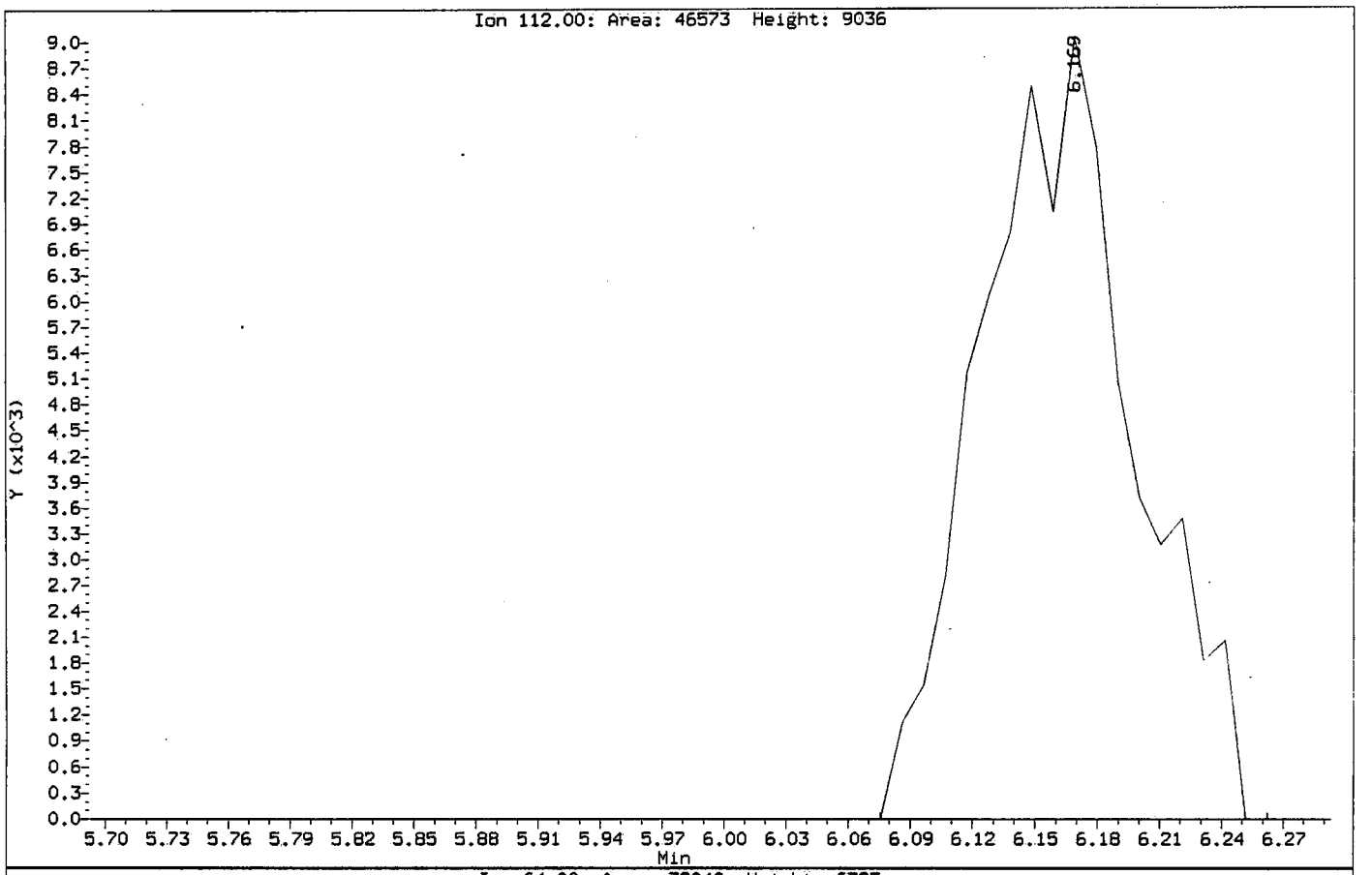


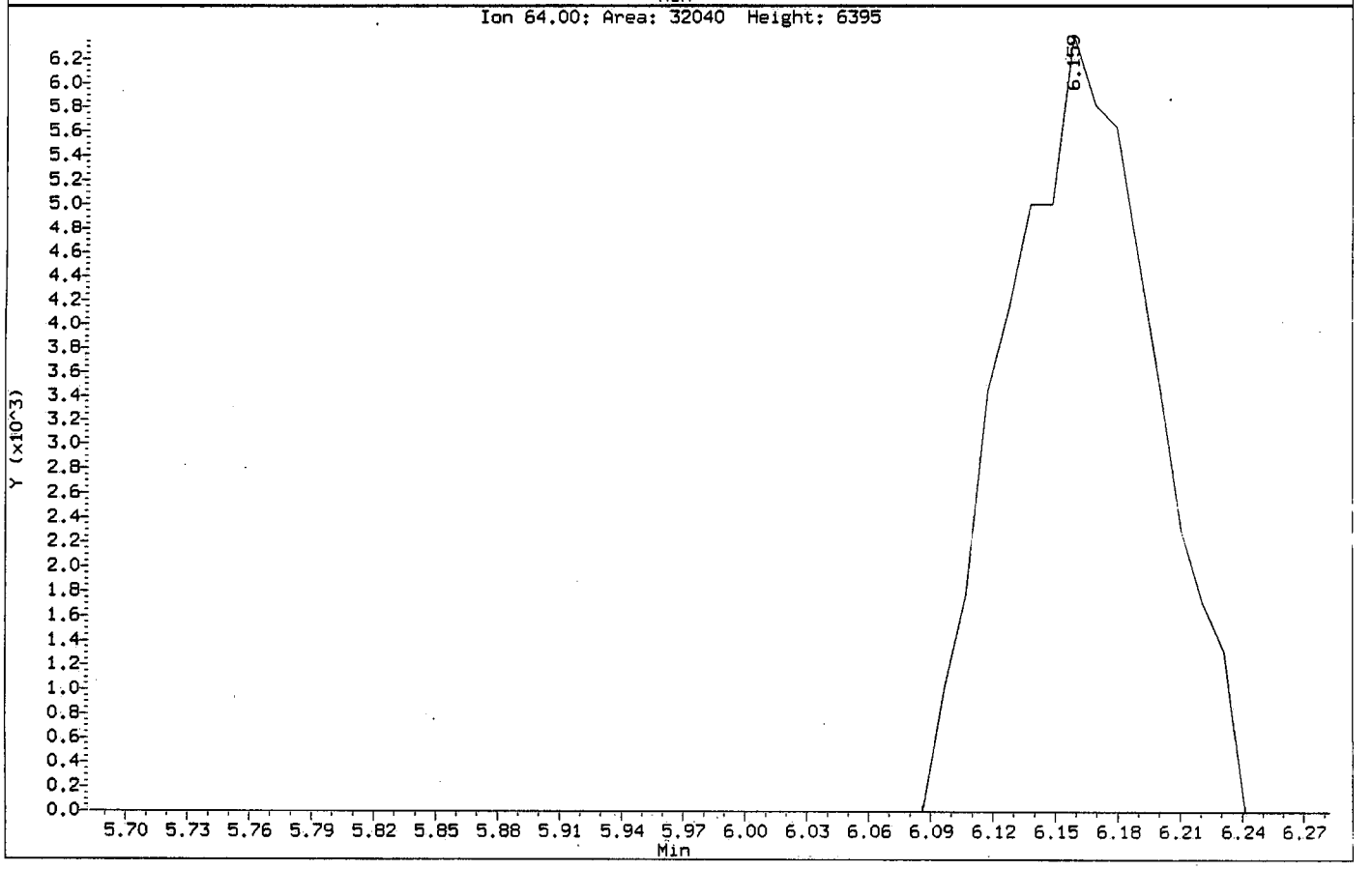


Data File: /var/chem/molly.i/0307184m1r.b/m8371.d
Injection Date: 18-JUL-2003 20:25
Instrument: molly.i
Client Sample ID:

Compound: 2-Fluorophenol
CAS Number: 367-12-4

Rolle E 7/21/03
integrate entire area
Kathy Kubut 7/21/03





Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

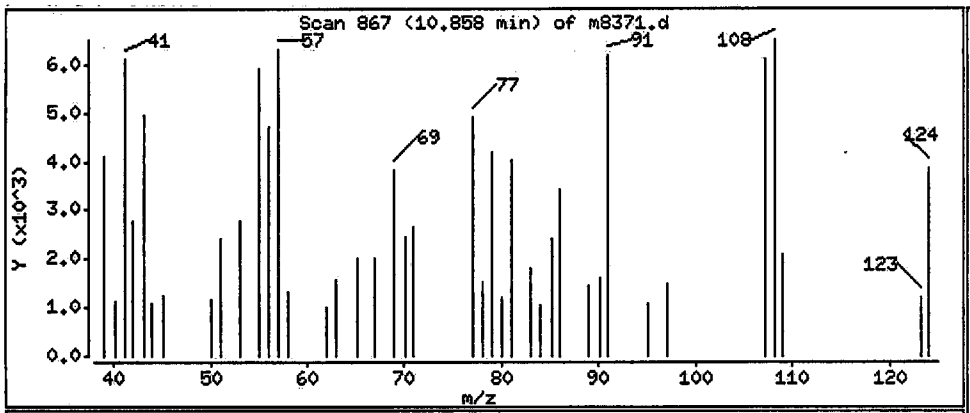
Operator: dce

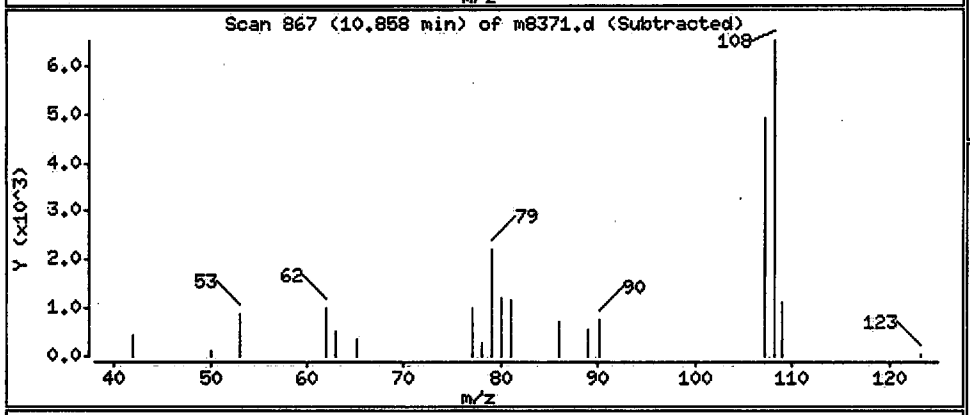
Column phase: ZB-5

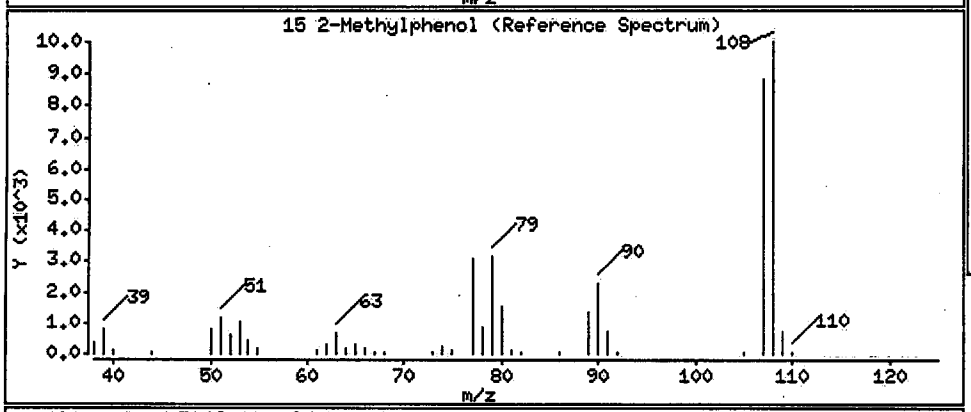
Column diameter: 0.25

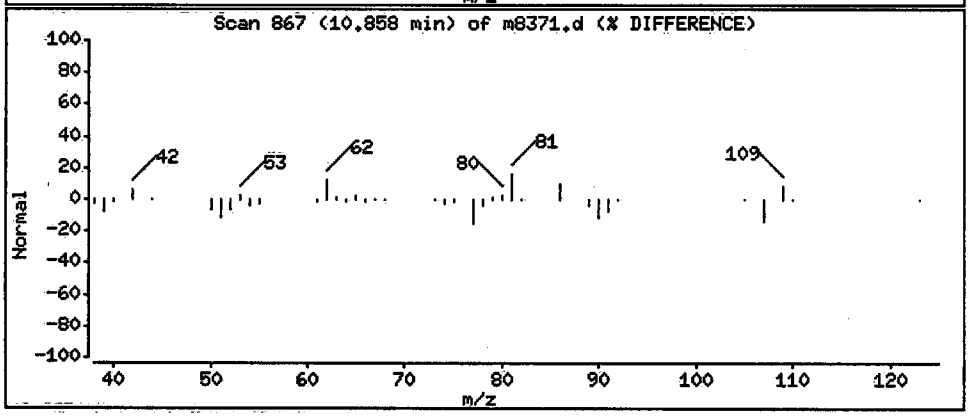
15 2-Methylphenol

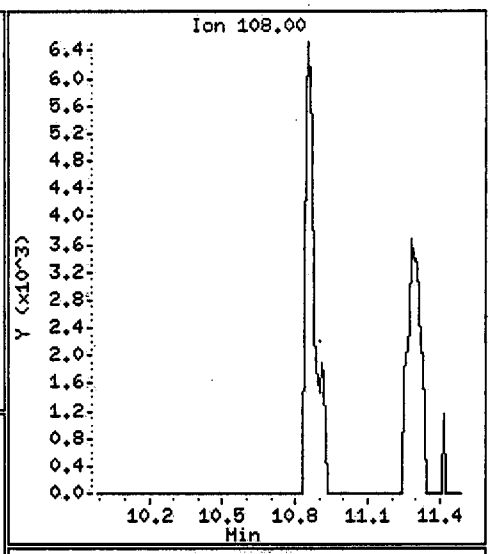
Concentration: 10.6 ug/L

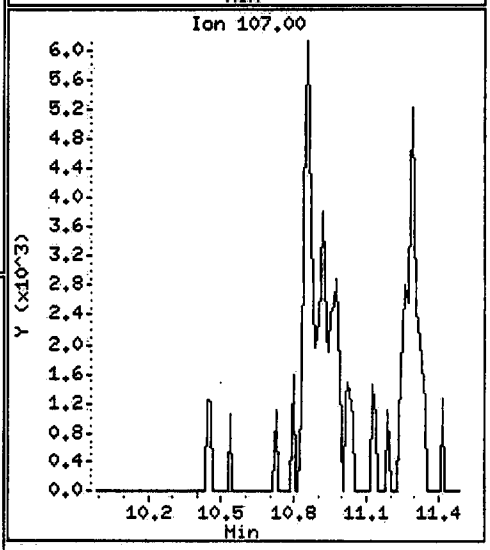












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

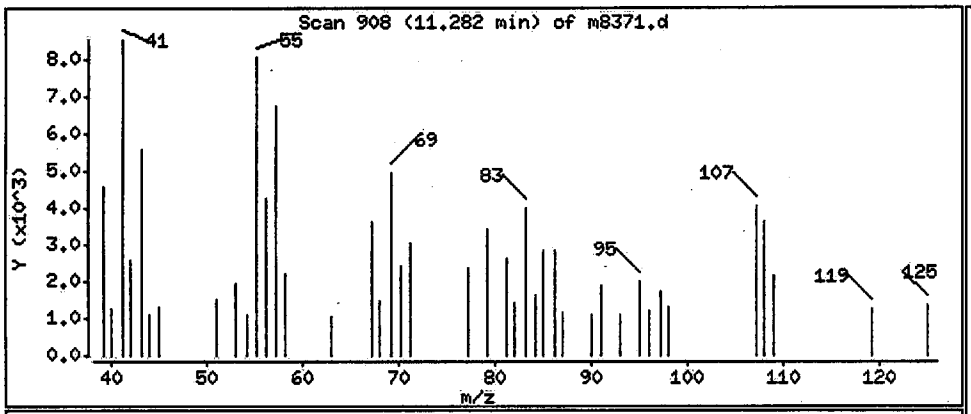
Operator: dce

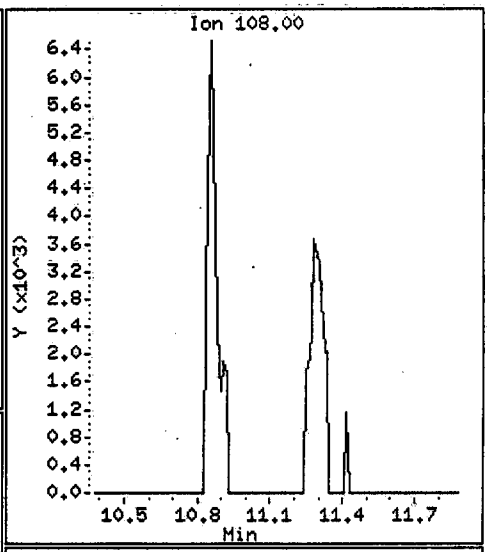
Column phase: ZB-5

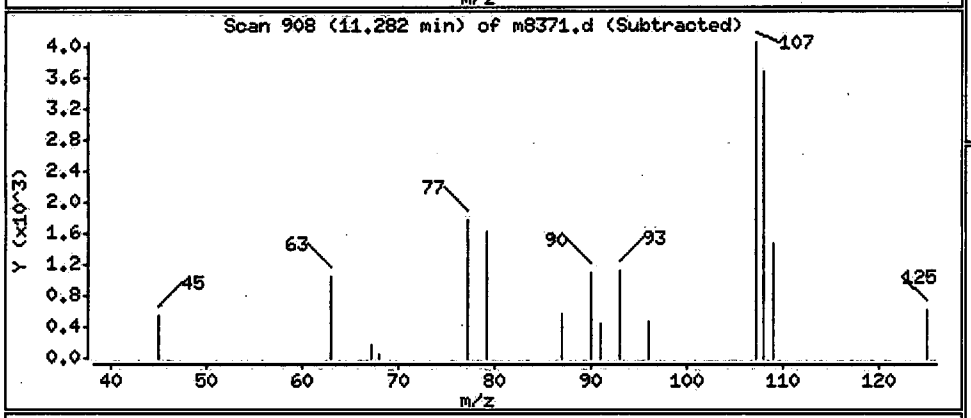
Column diameter: 0.25

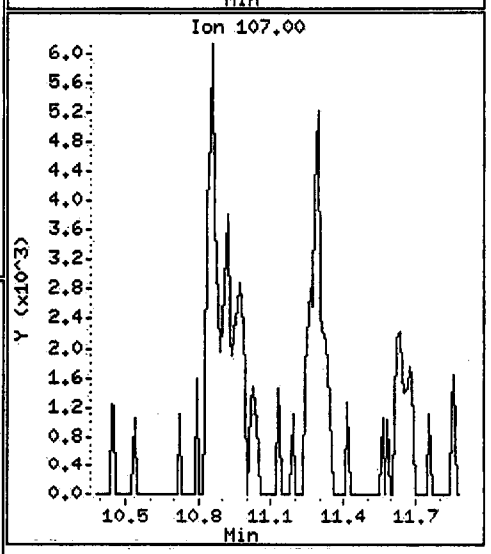
18 4-Methylphenol

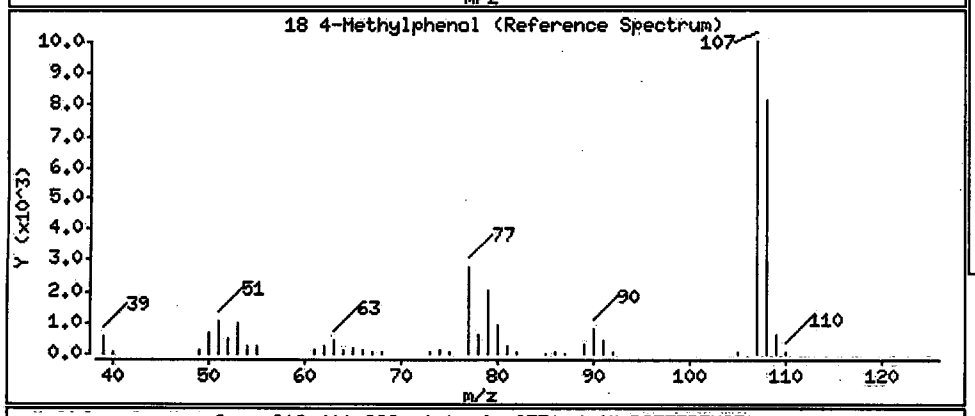
Concentration: 7.71 ug/L

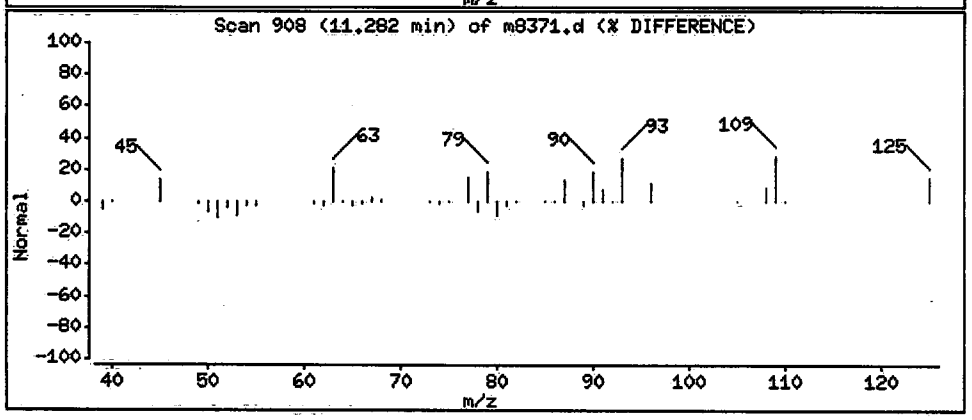












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

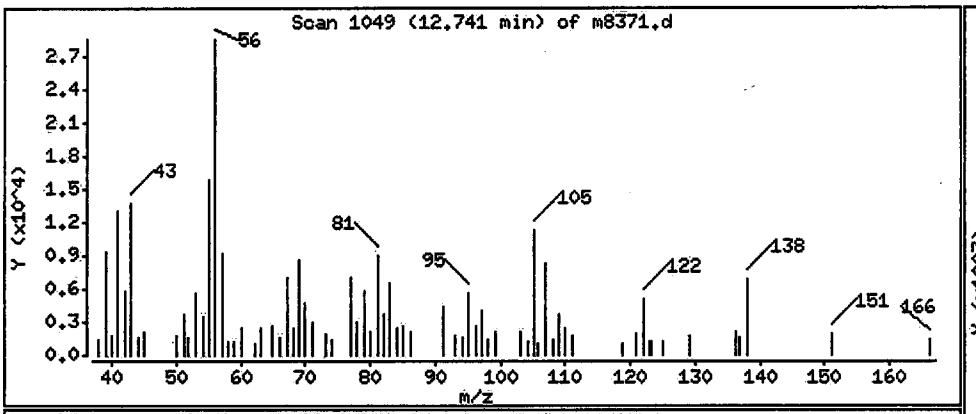
Operator: dce

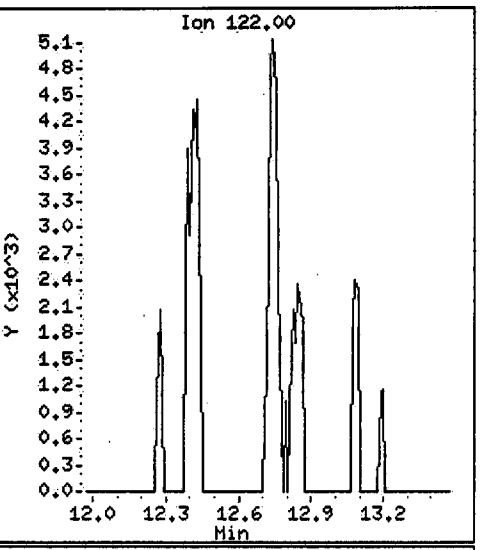
Column phase: ZB-5

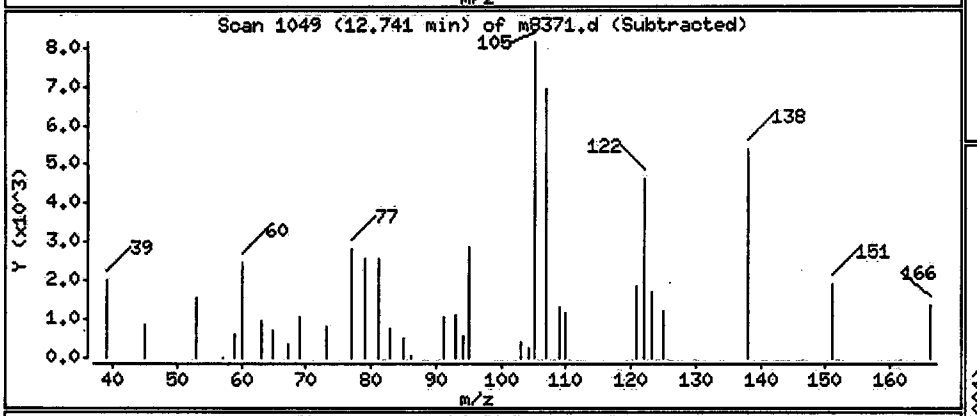
Column diameter: 0.25

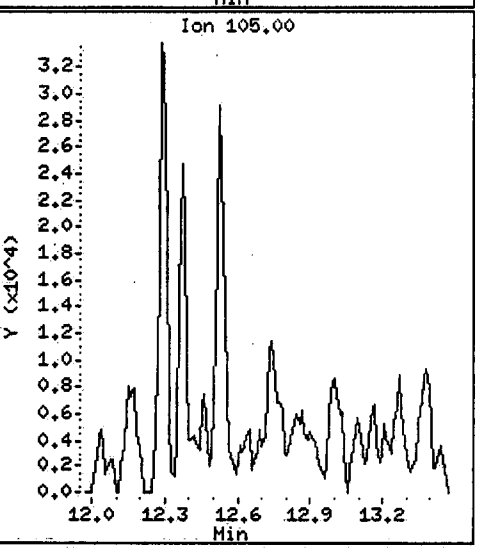
27 Benzoic acid

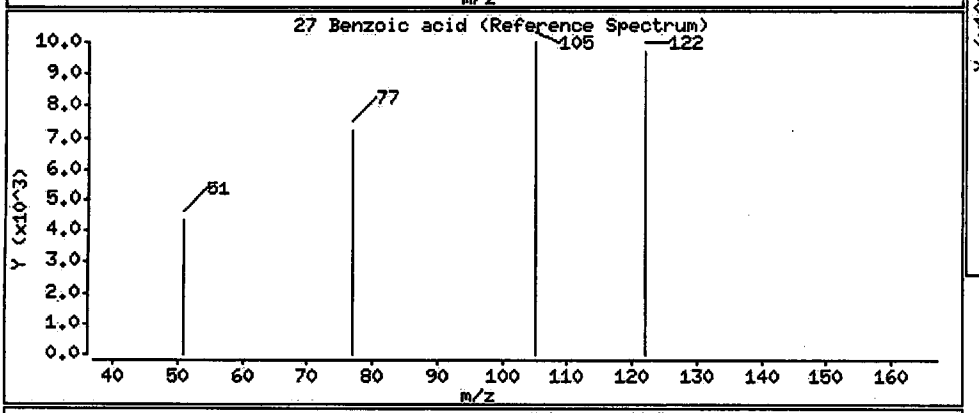
Concentration: 14.1 ug/L

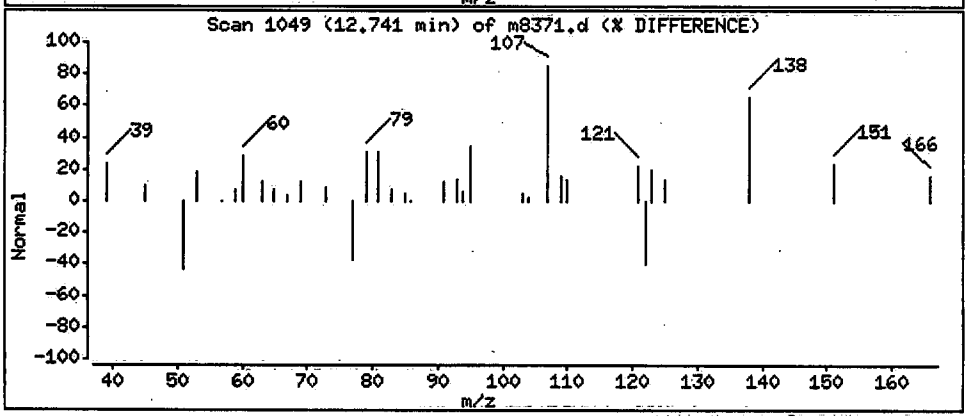












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

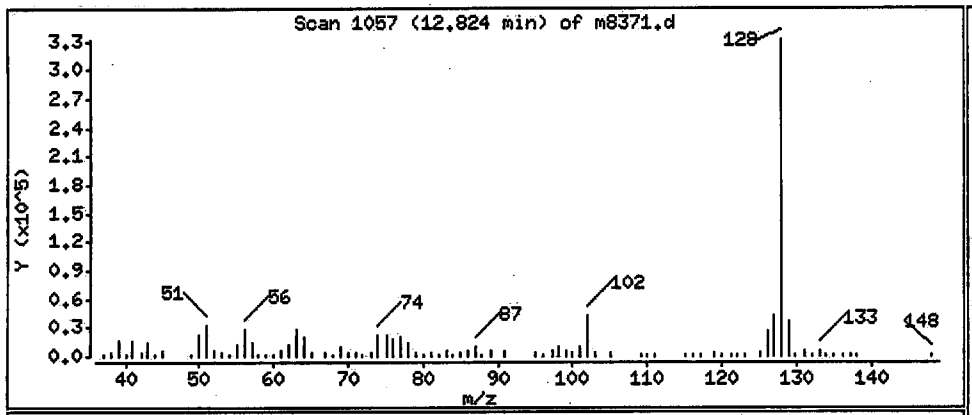
Operator: dce

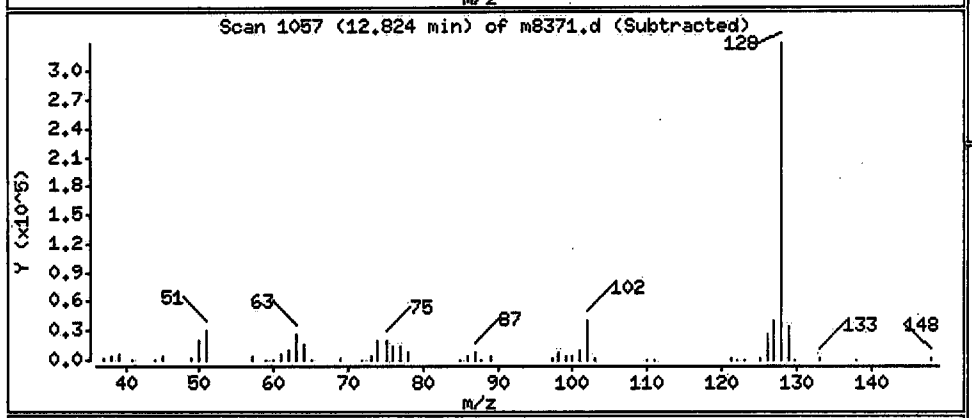
Column phase: ZB-5

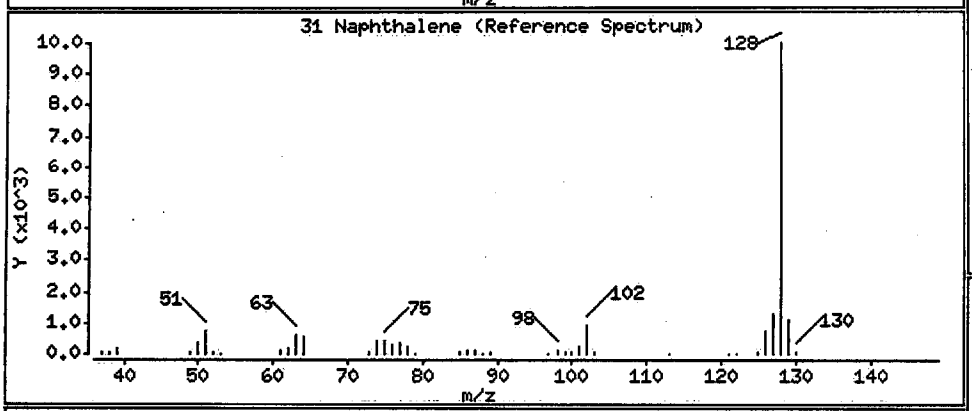
Column diameter: 0.25

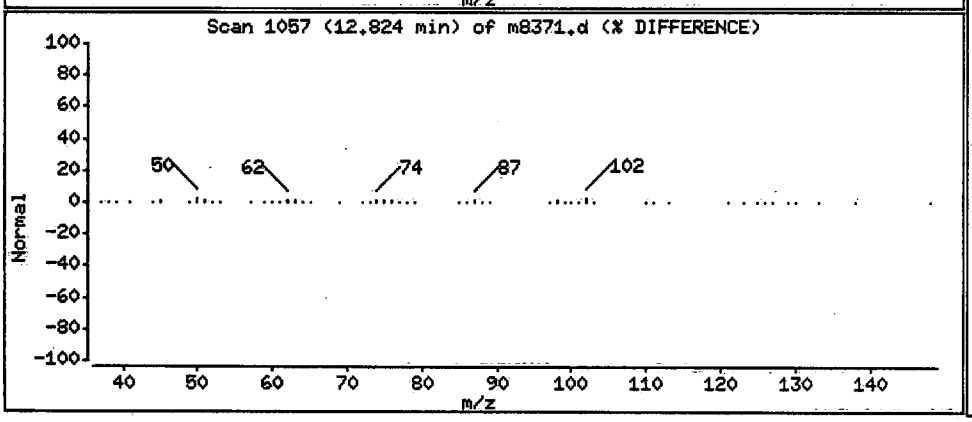
31 Naphthalene

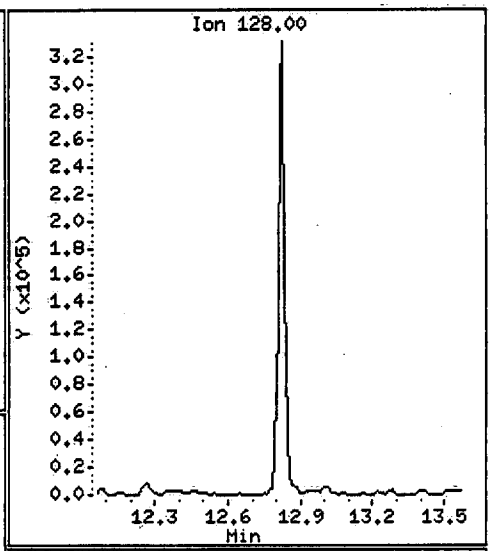
Concentration: 121 ug/L

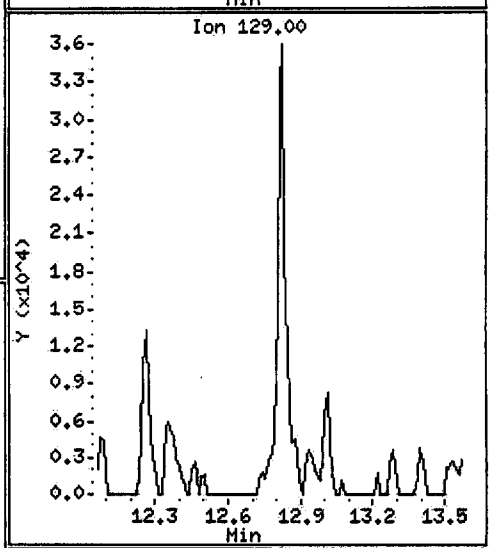


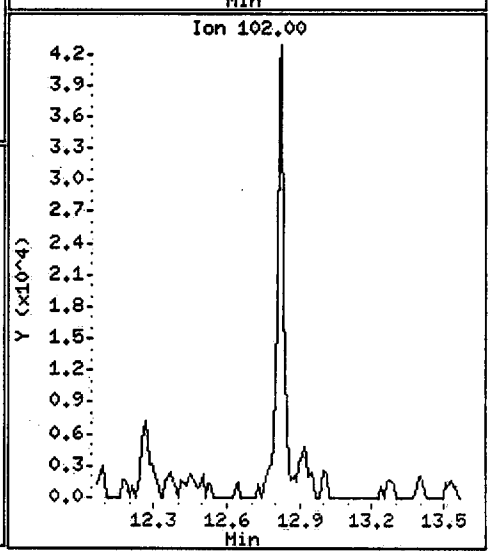












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

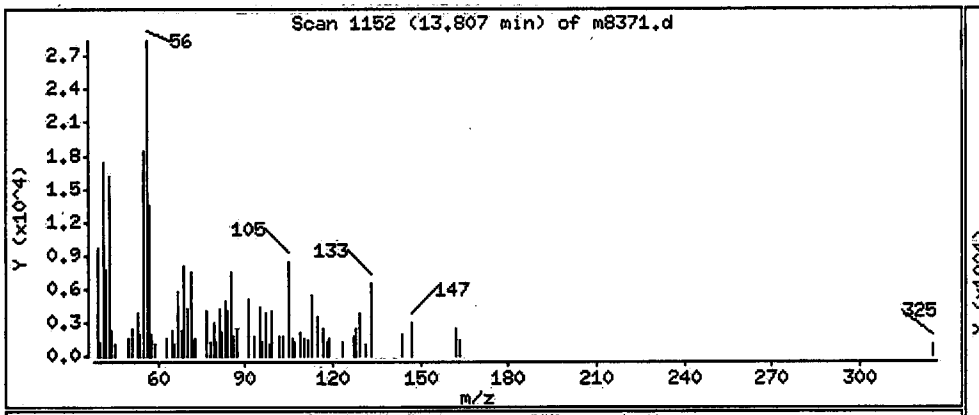
Operator: dce

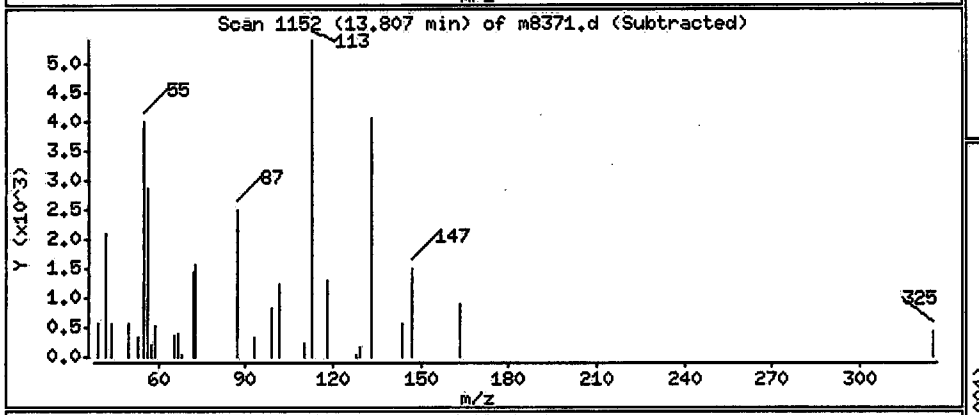
Column phase: ZB-5

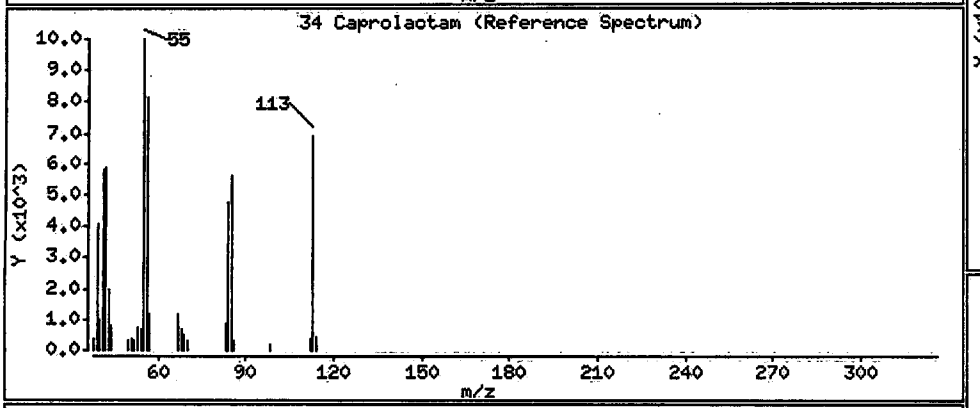
Column diameter: 0.25

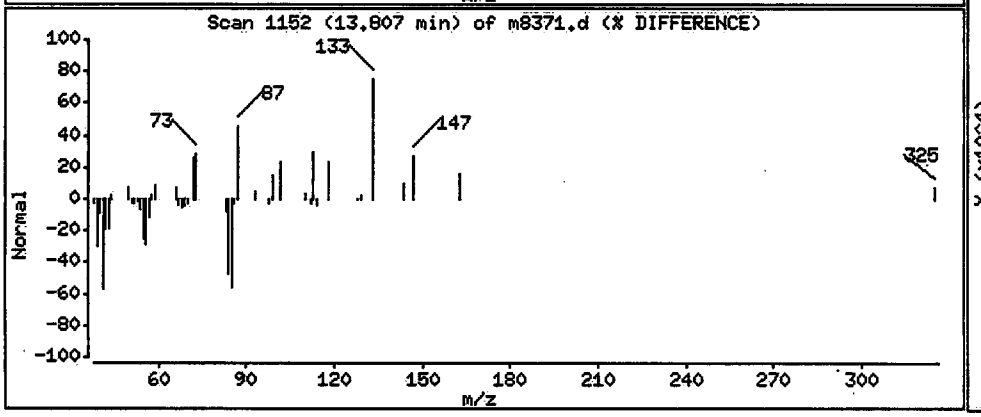
34 Caprolactam

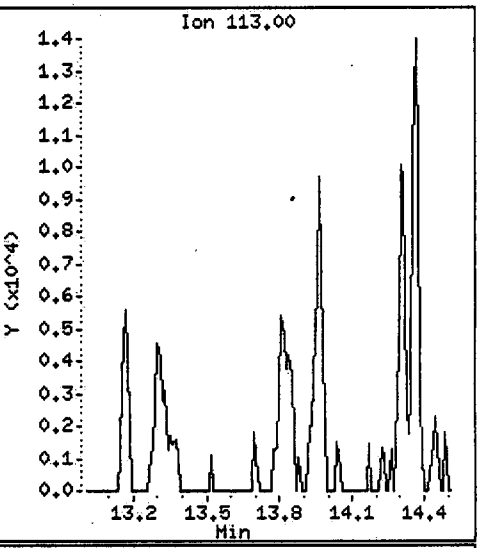
Concentration: 33.1 ug/L

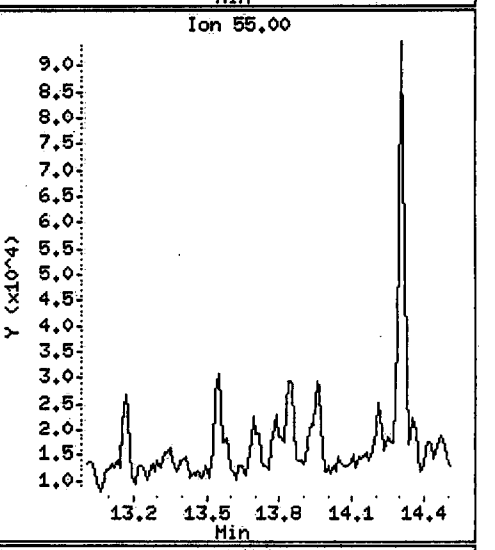


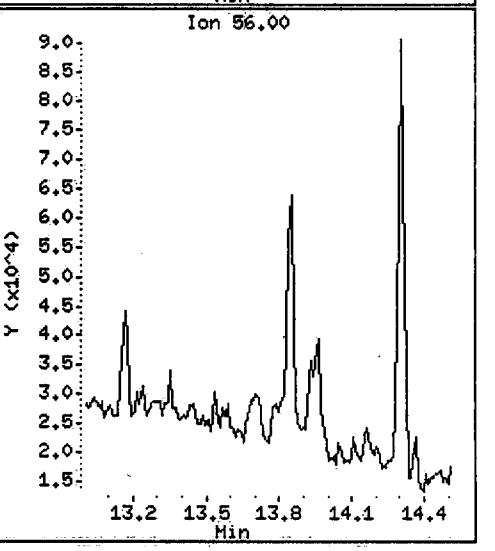












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

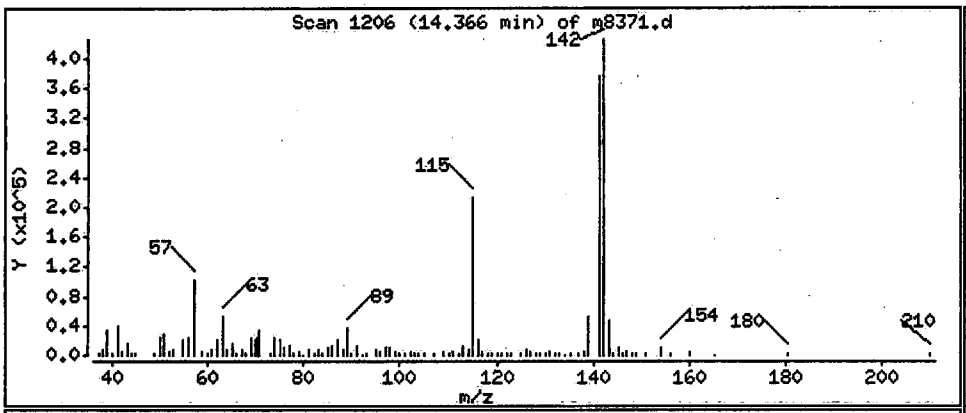
Operator: dce

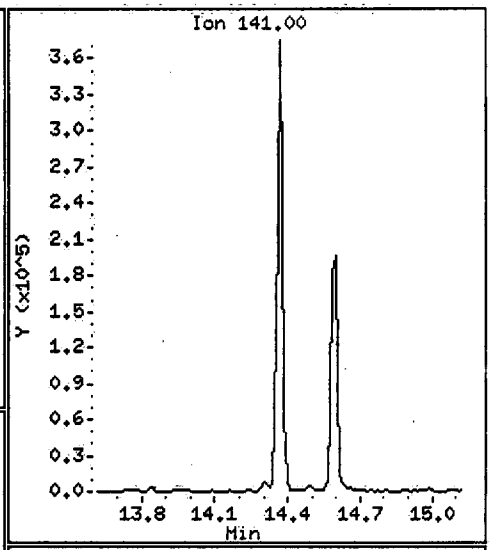
Column phase: ZB-5

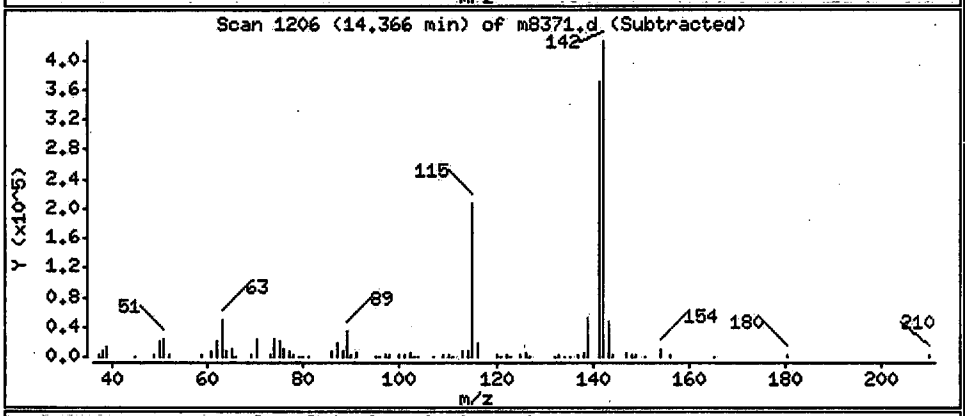
Column diameter: 0.25

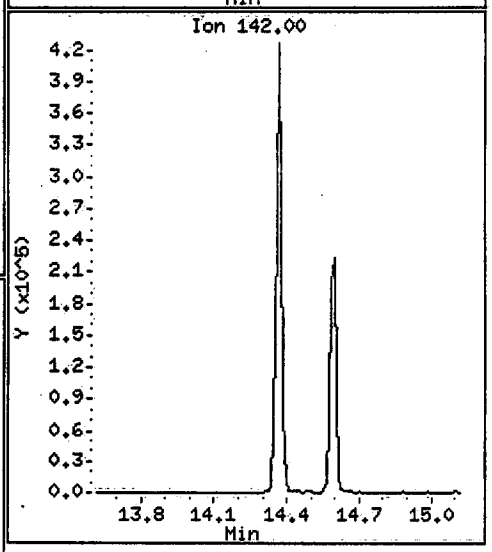
36 2-Methylnaphthalene

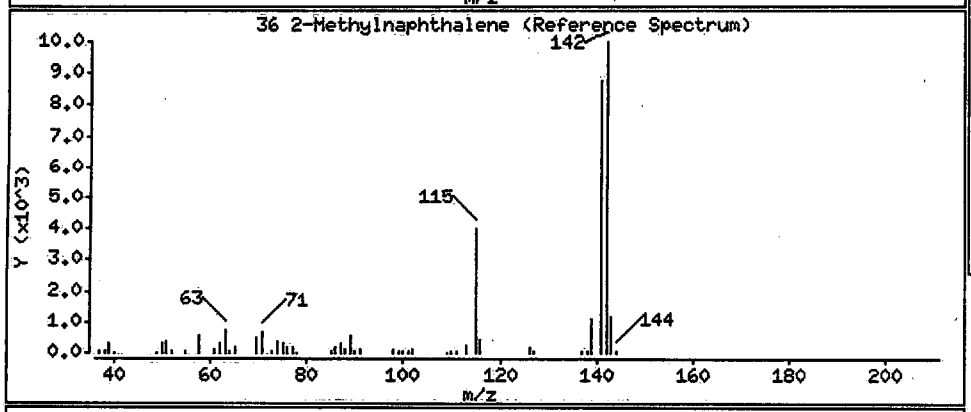
Concentration: 203 ug/L

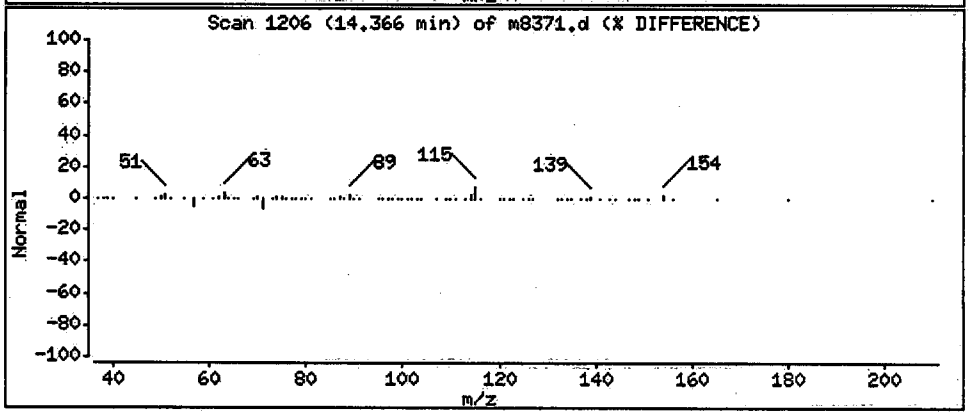












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

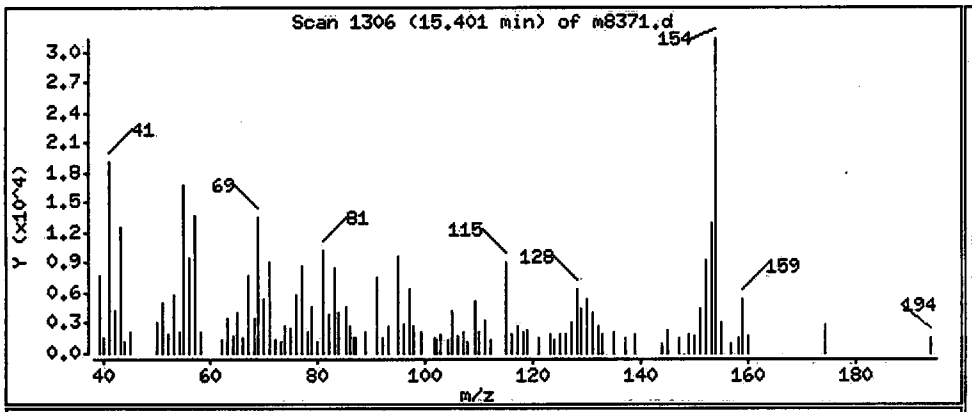
Operator: dce

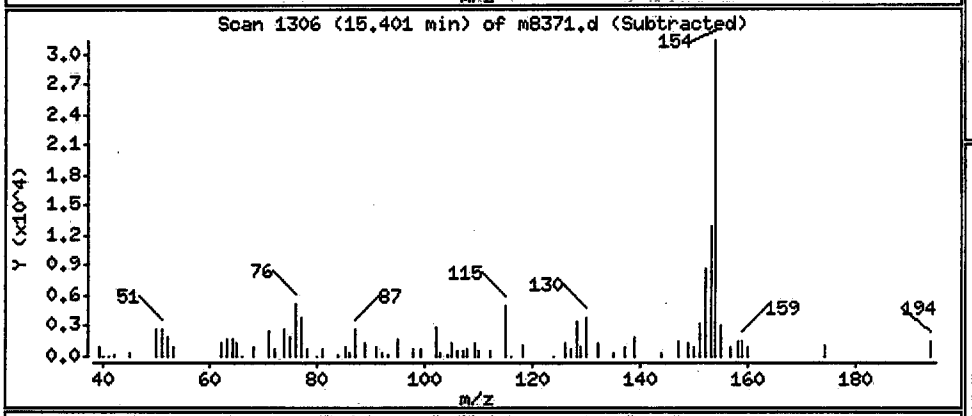
Column phase: ZB-5

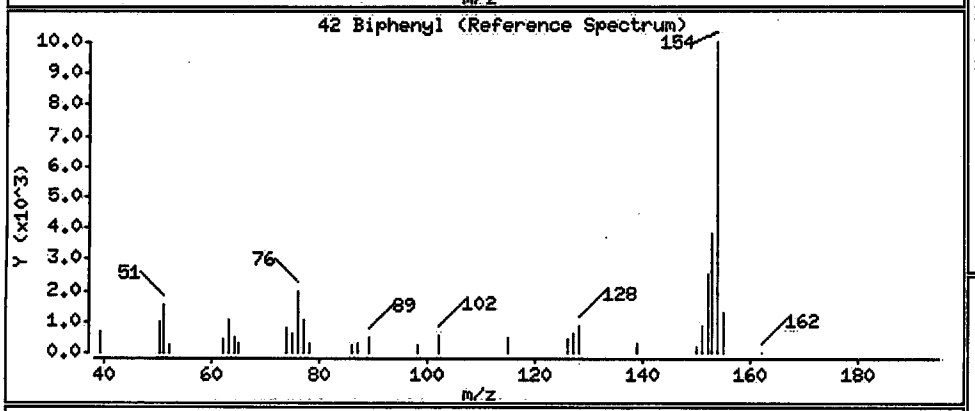
Column diameter: 0.25

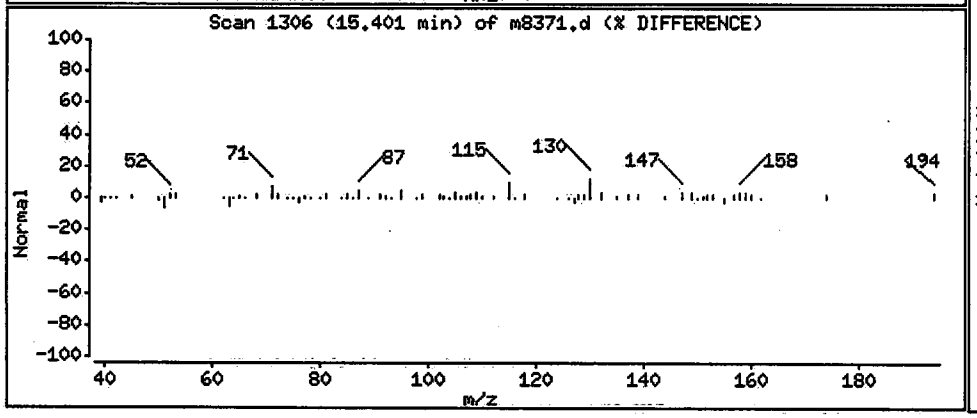
42 Biphenyl

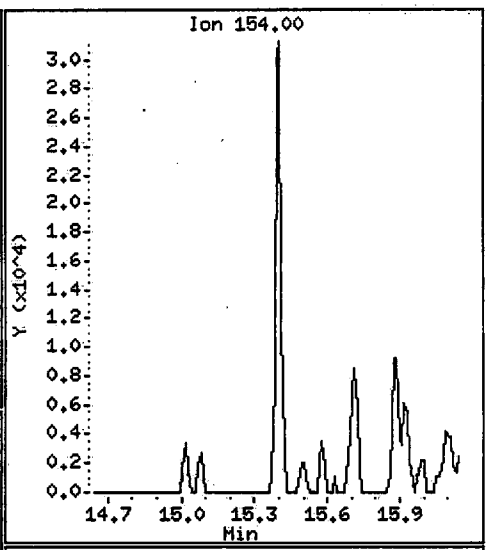
Concentration: 11.4 ug/L

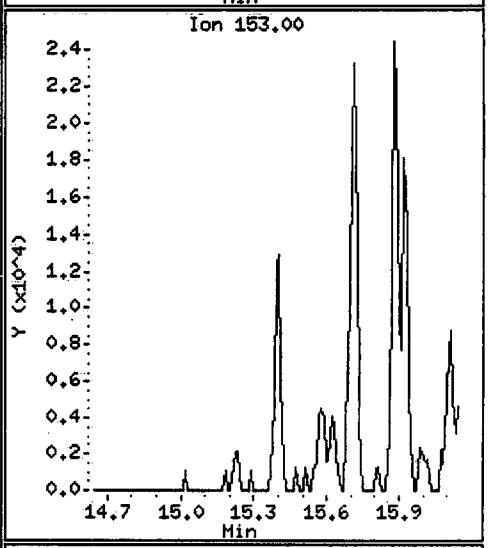


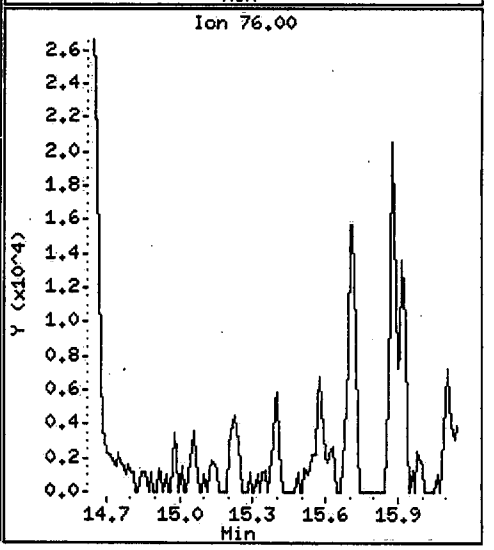












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

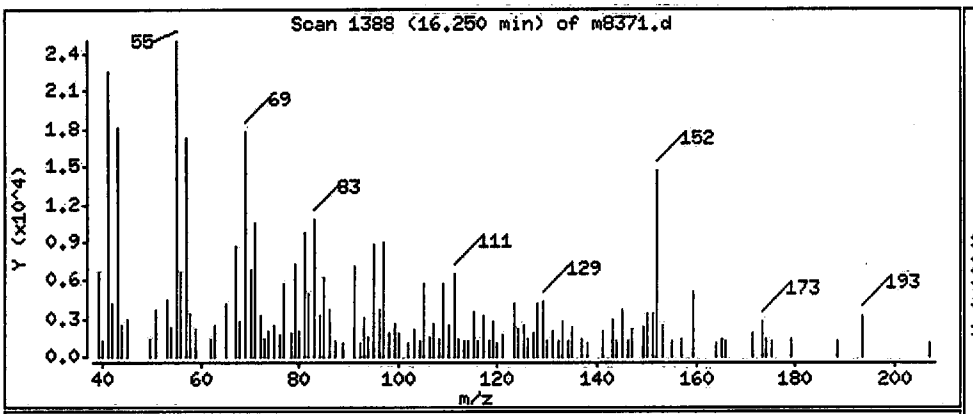
Operator: dce

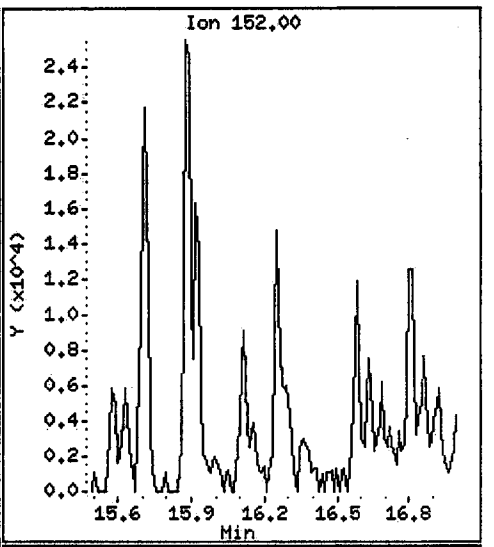
Column phase: ZB-5

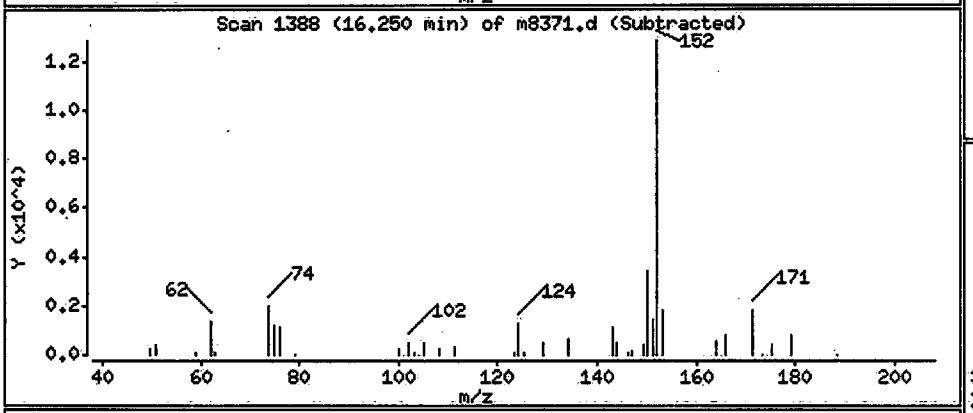
Column diameter: 0.25

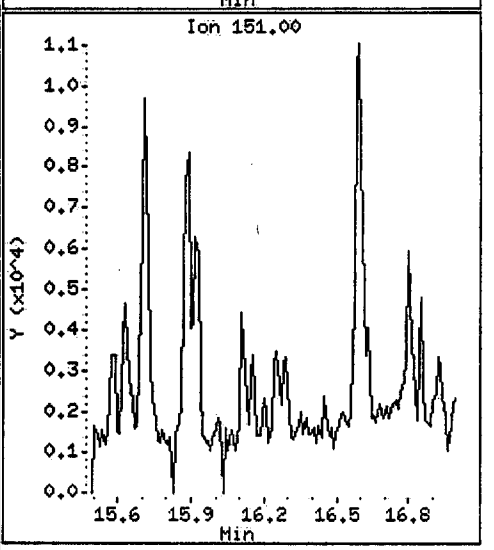
45 Acenaphthylene

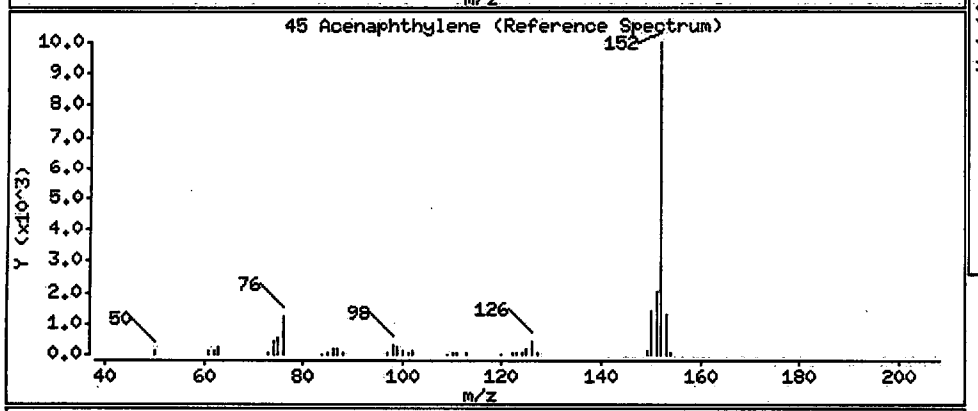
Concentration: 6.75 ug/L

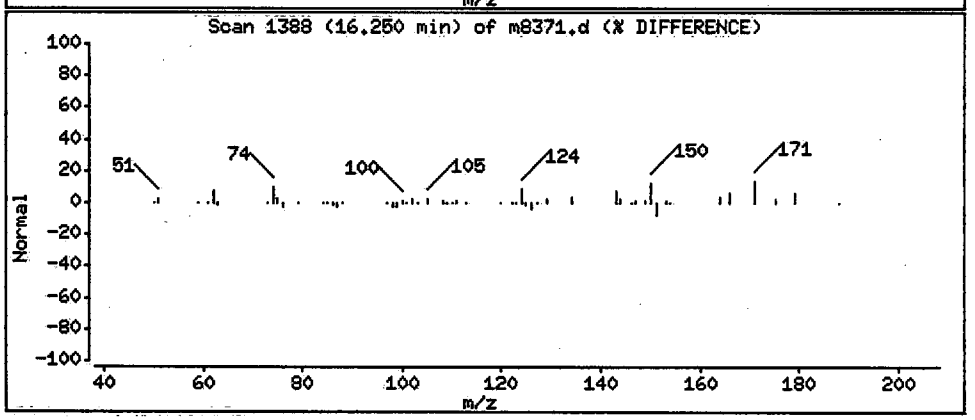












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

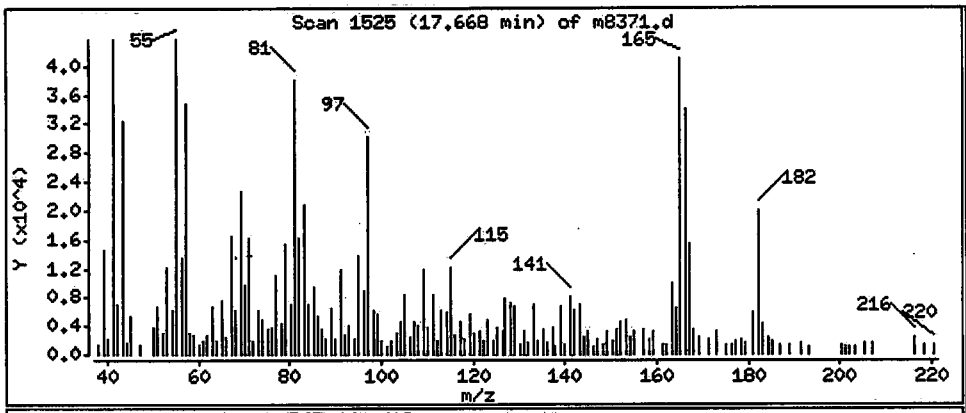
Operator: dce

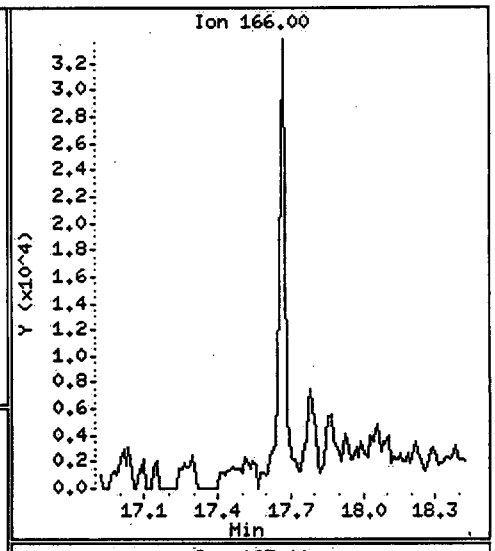
Column phase: ZB-5

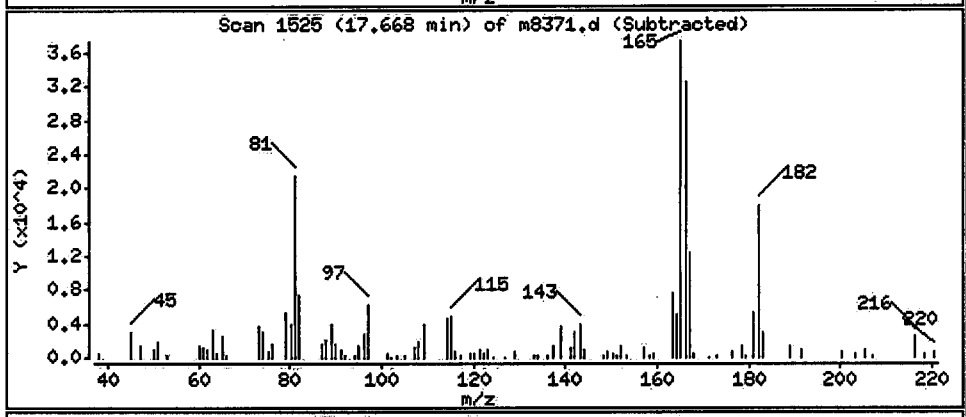
Column diameter: 0.25

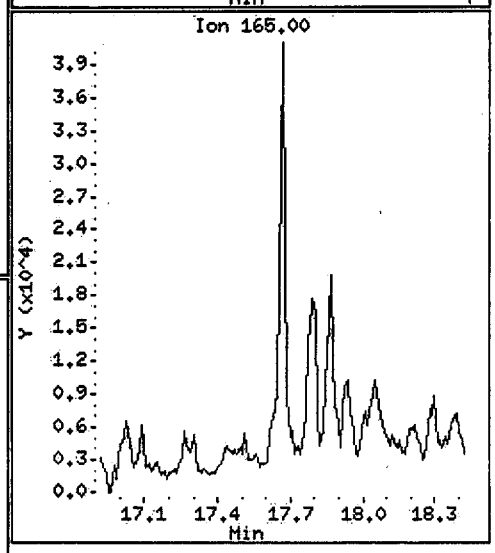
55 Fluorene

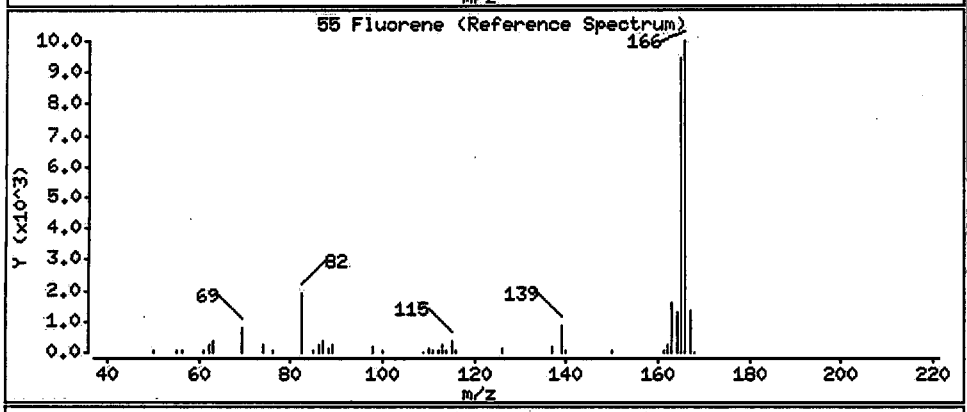
Concentration: 14.4 ug/L

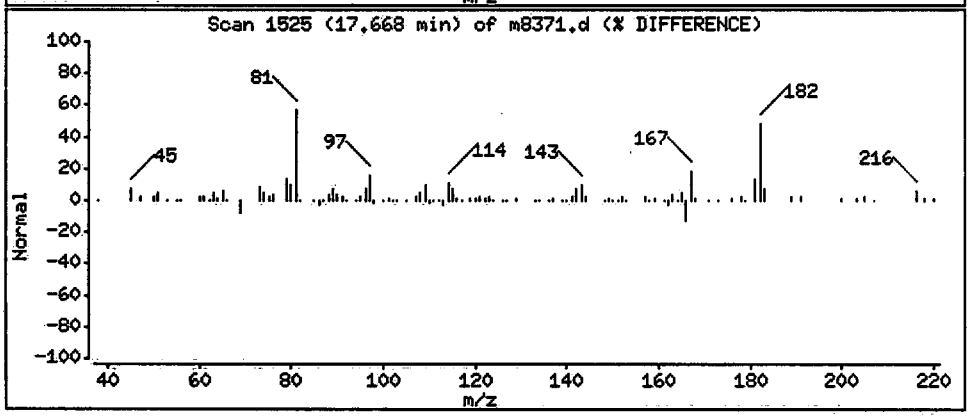












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

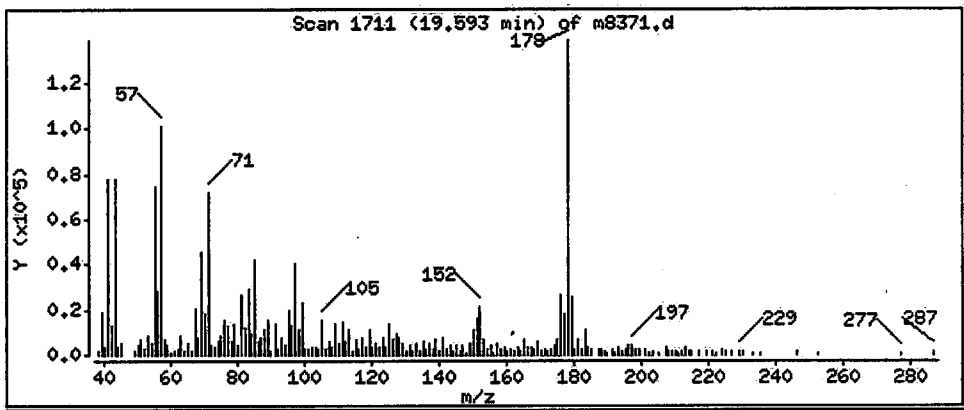
Operator: dce

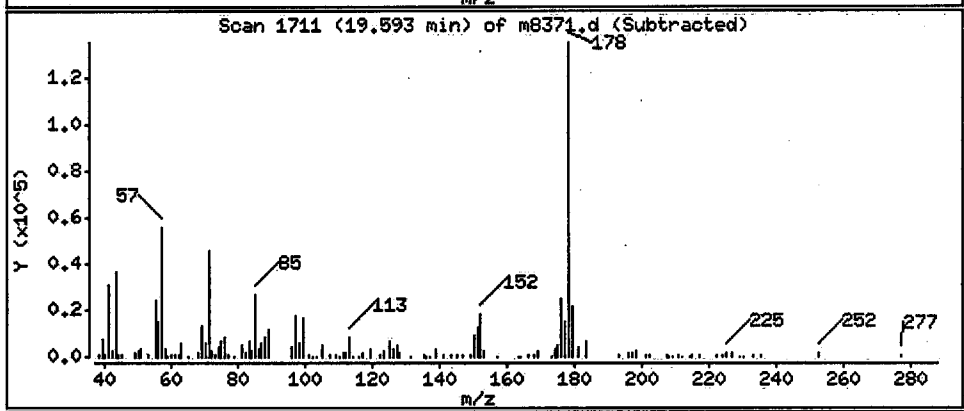
Column phase: ZB-5

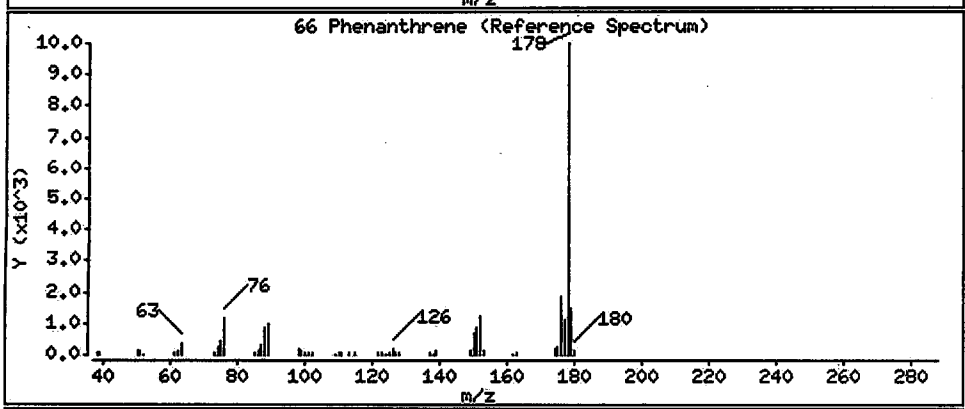
Column diameter: 0.25

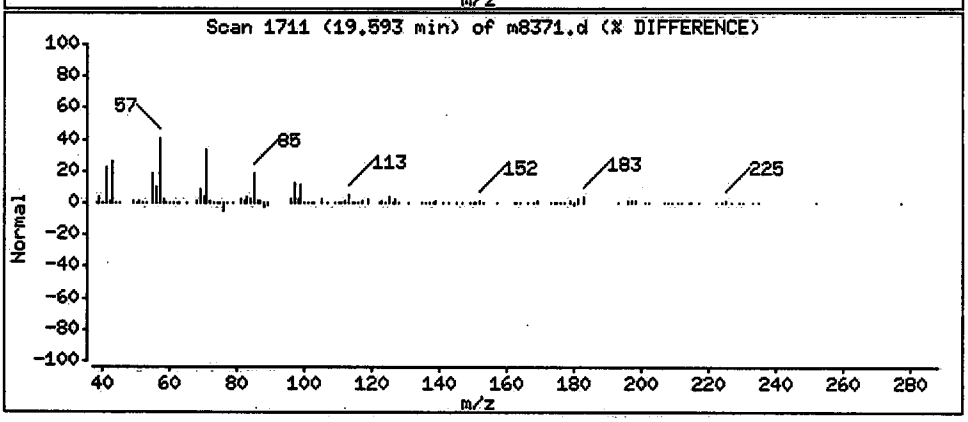
66 Phenanthrene

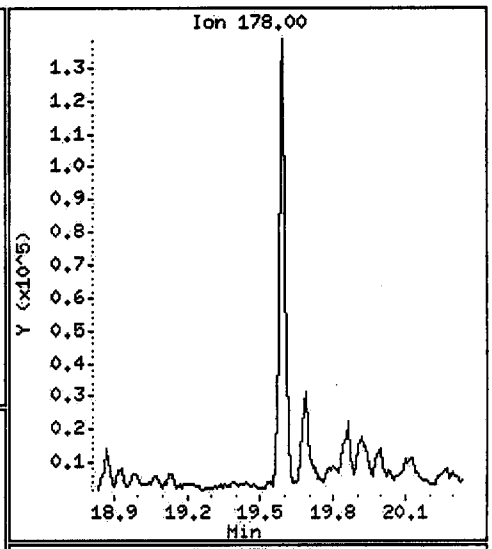
Concentration: 32.2 ug/L

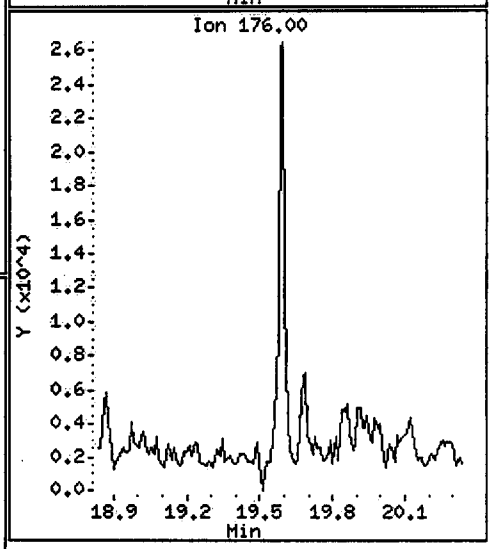












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

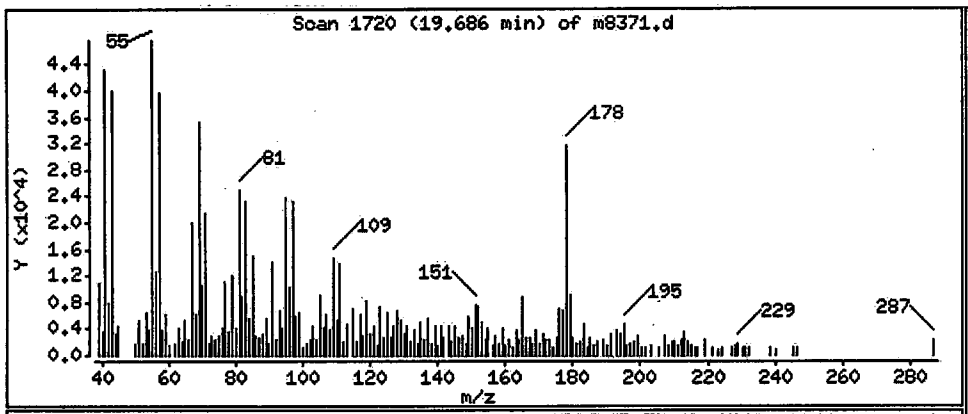
Operator: doe

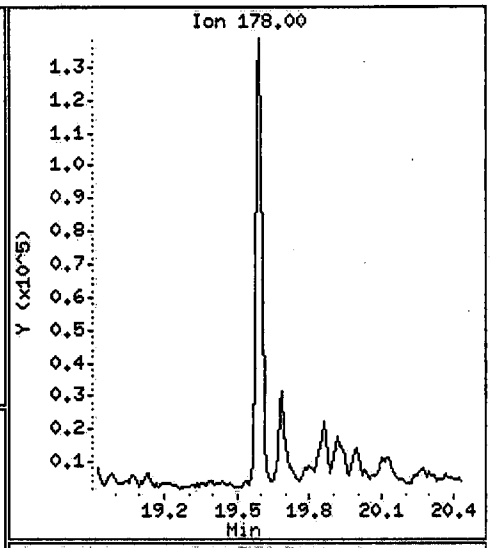
Column phase: ZB-5

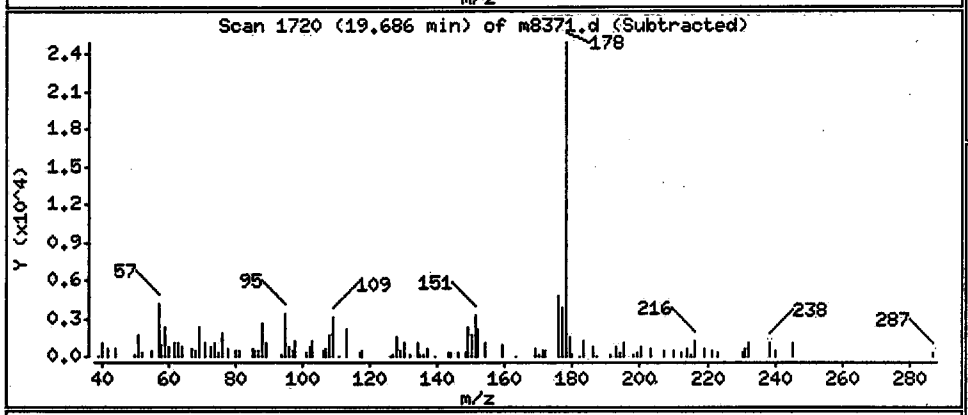
Column diameter: 0.25

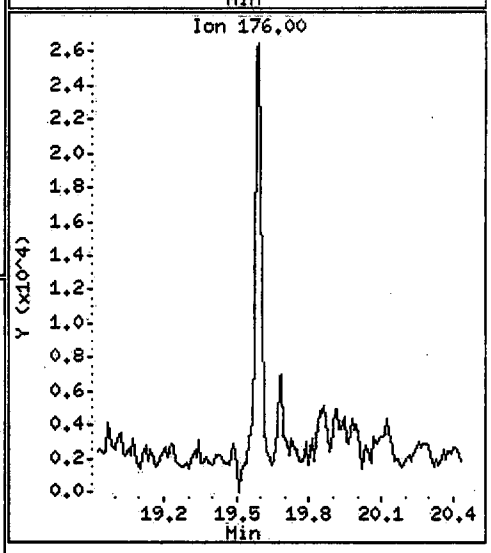
67 Anthracene

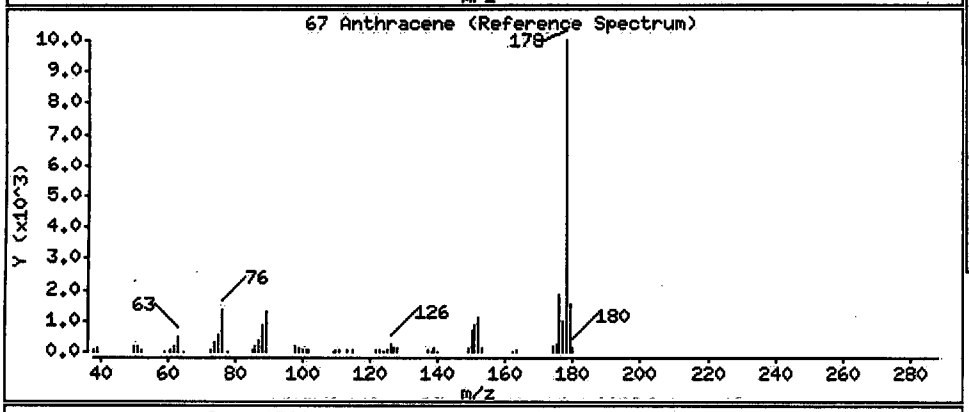
Concentration: 8.46 ug/L

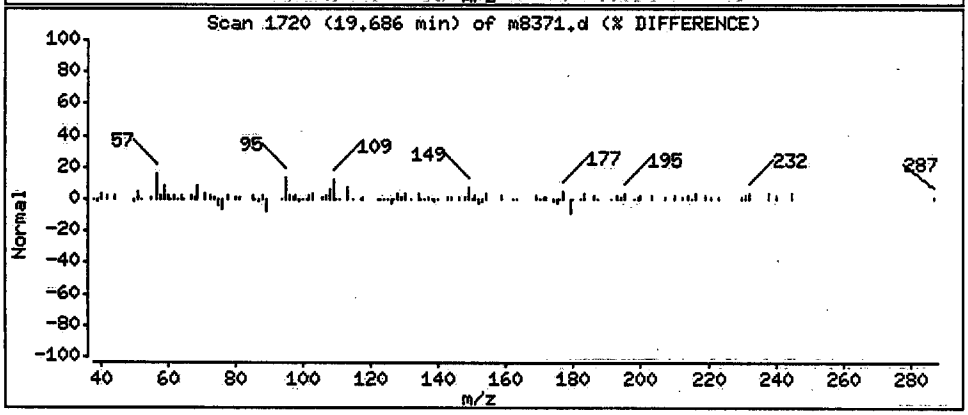












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

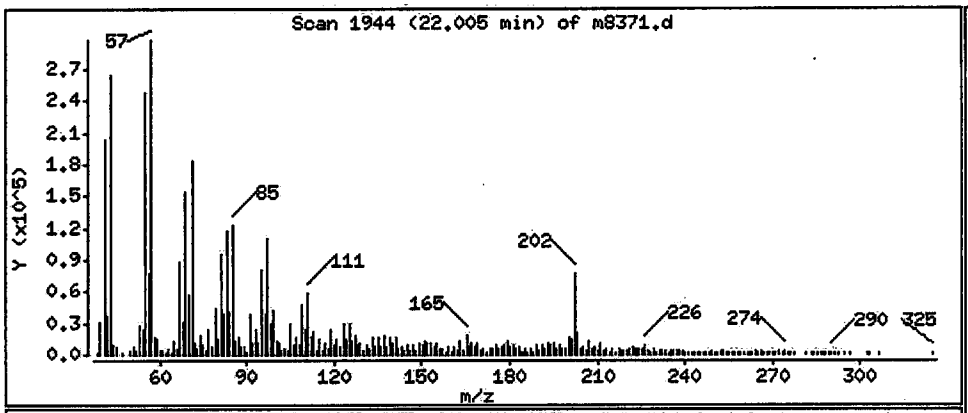
Operator: doe

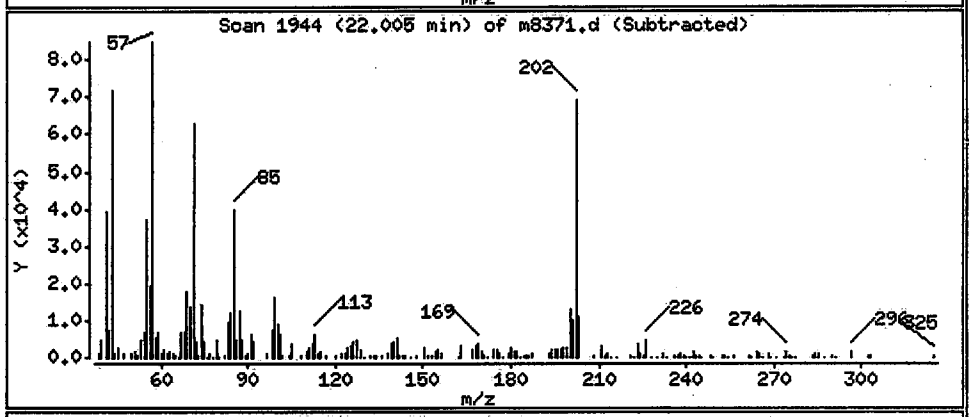
Column phase: ZB-5

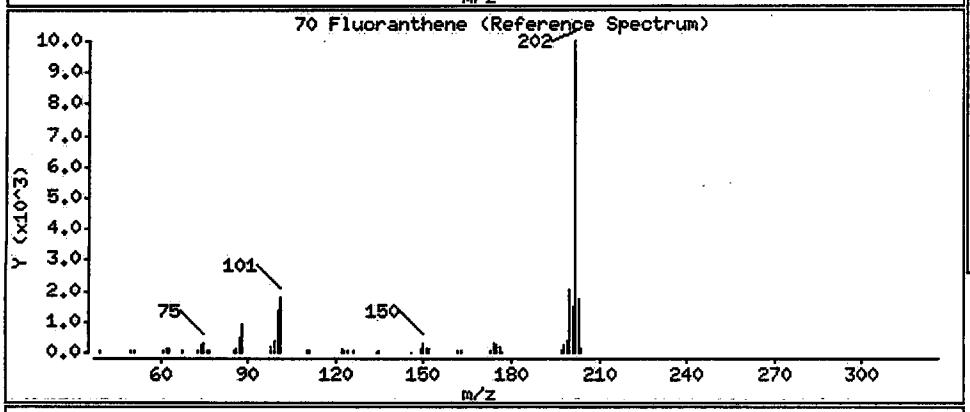
Column diameter: 0.25

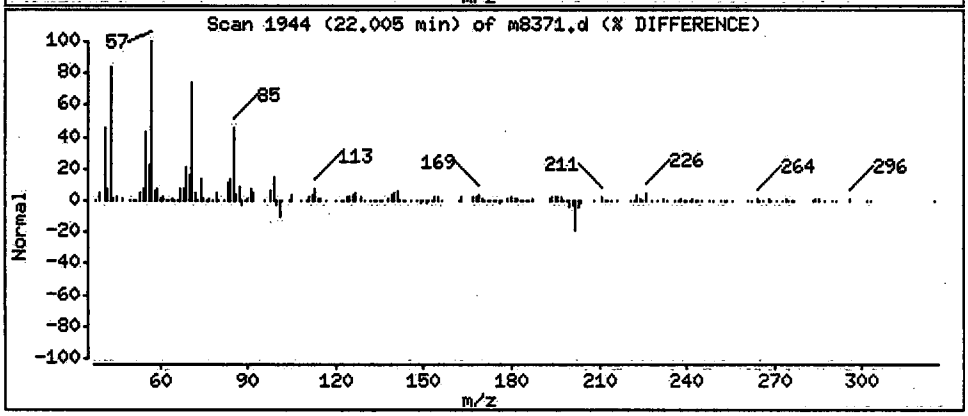
70 Fluoranthene

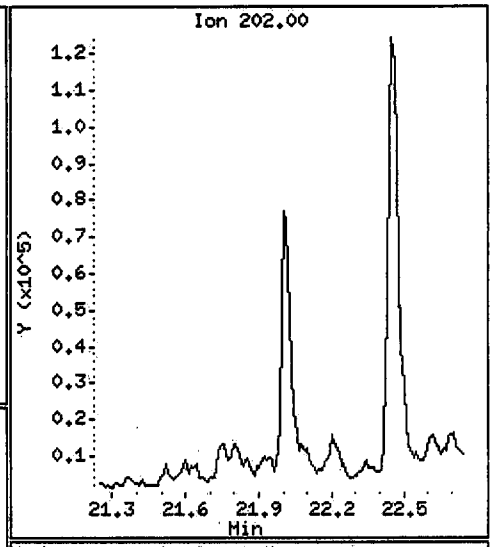
Concentration: 23.8 ug/L

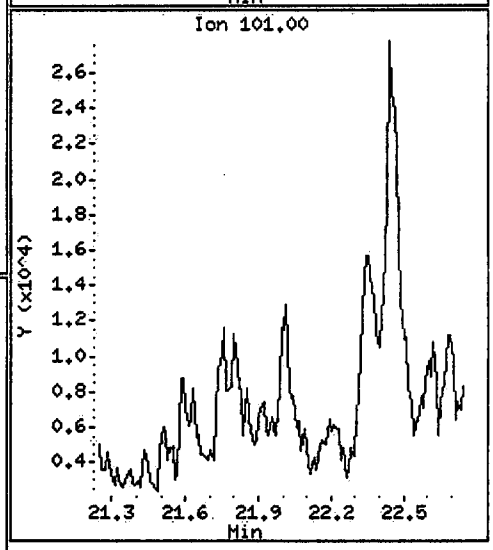












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

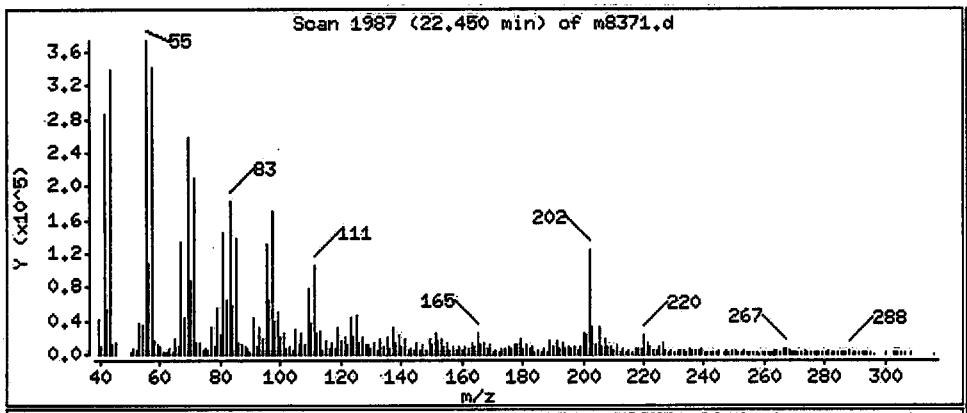
Operator: dce

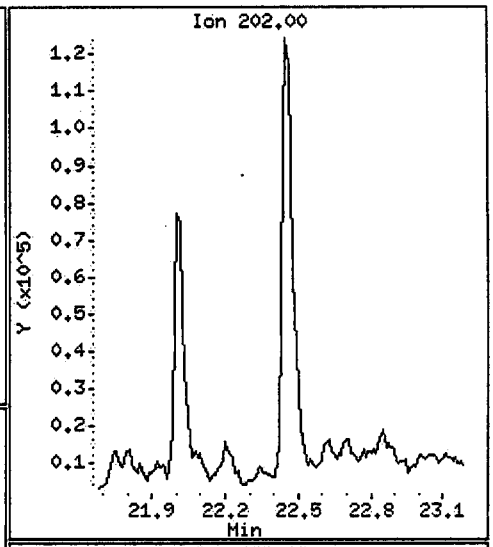
Column phase: ZB-5

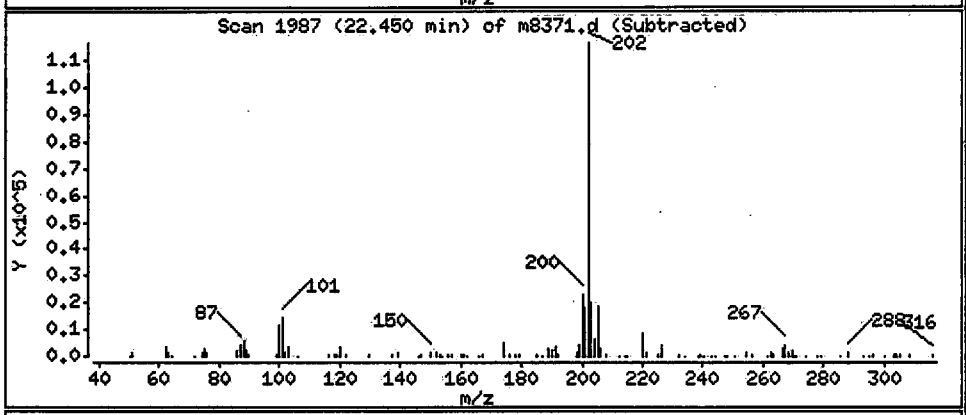
Column diameter: 0.25

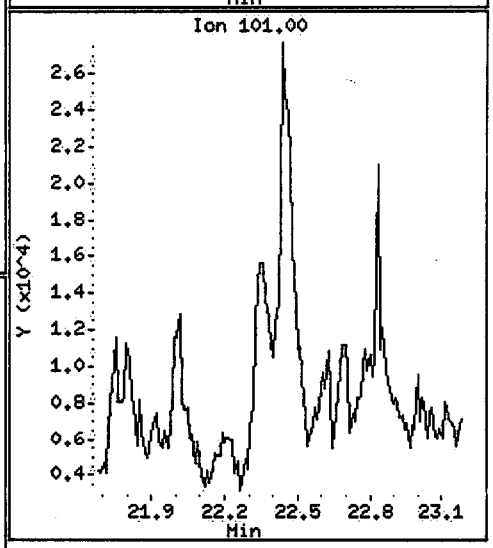
72 Pyrene

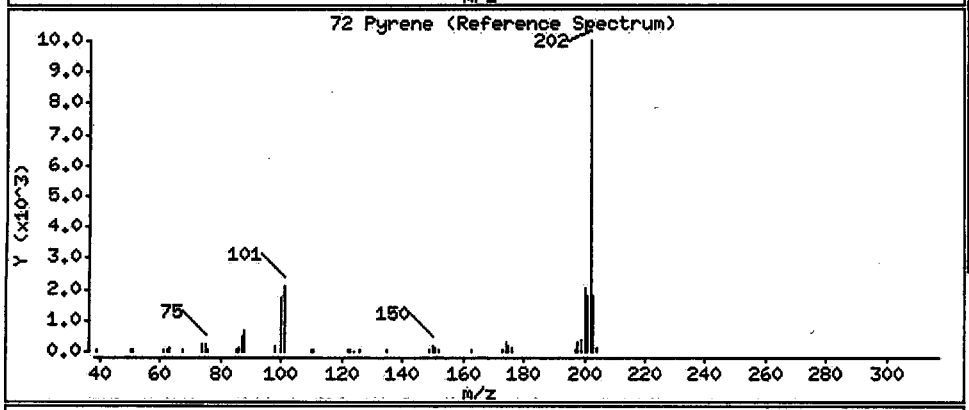
Concentration: 12.4 ug/L

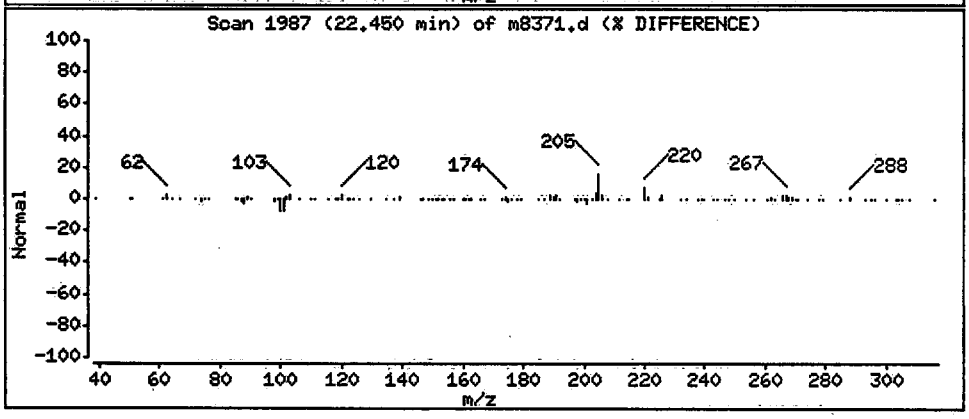












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

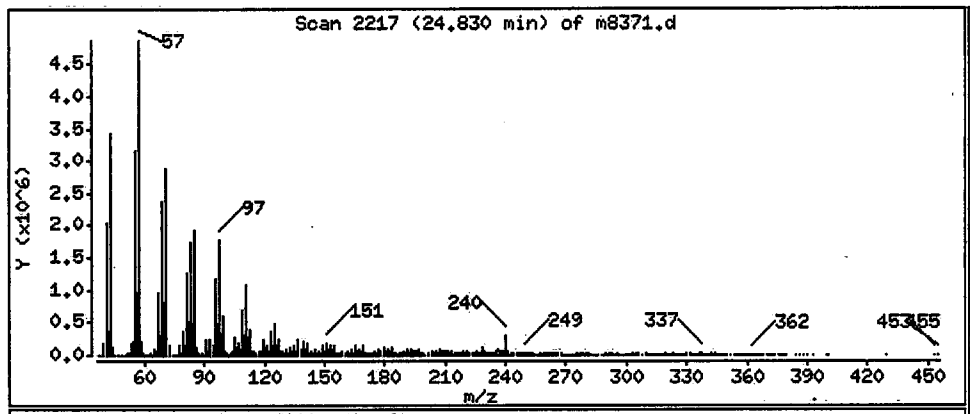
Operator: dce

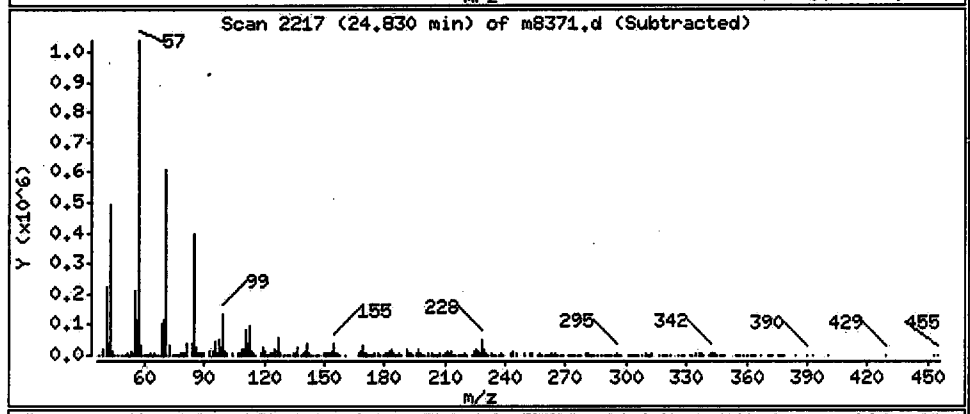
Column phase: ZB-5

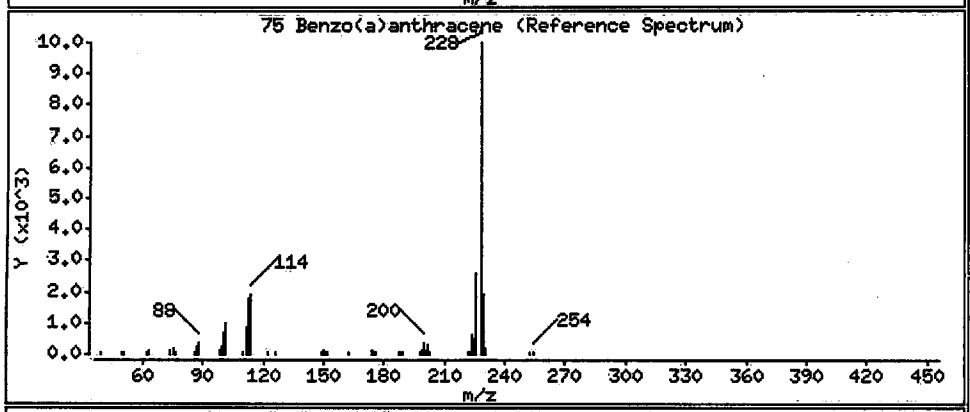
Column diameter: 0.25

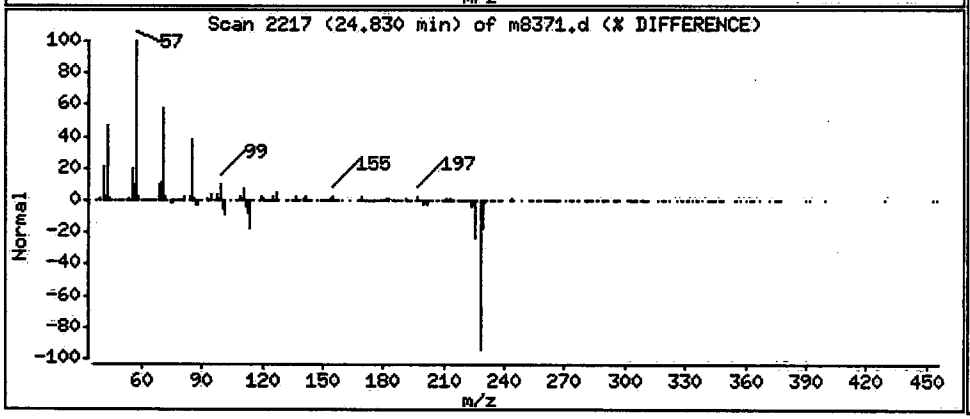
75 Benzo(a)anthracene

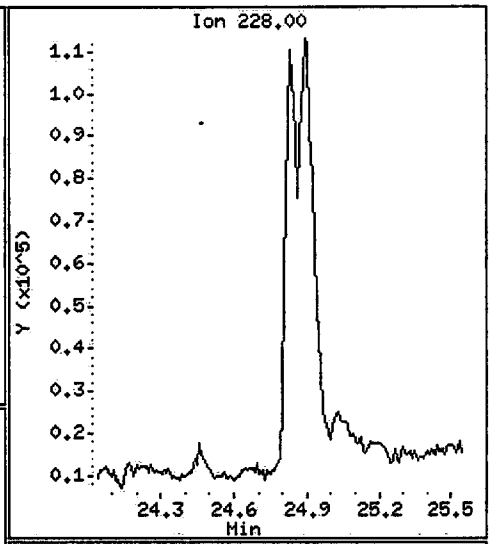
Concentration: 10.7 ug/L

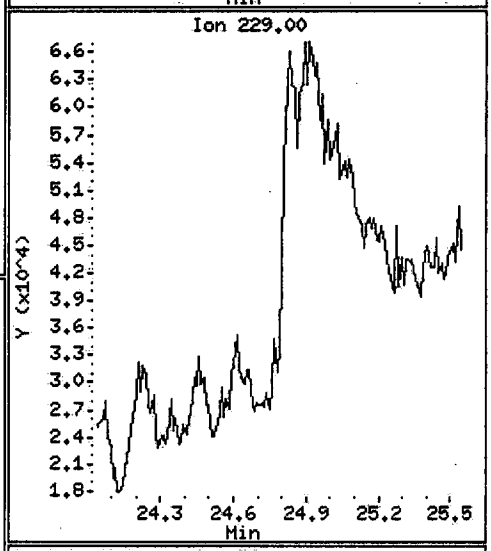


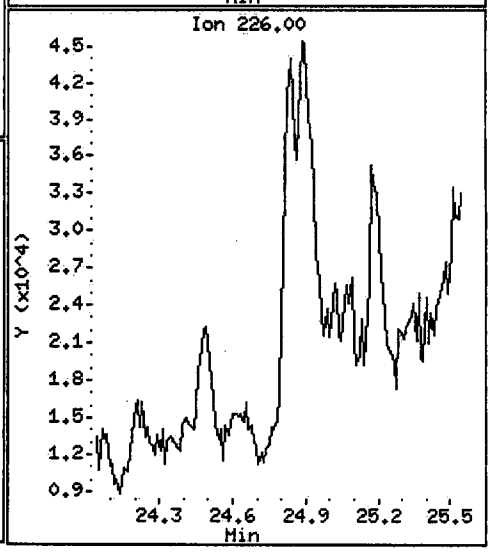












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

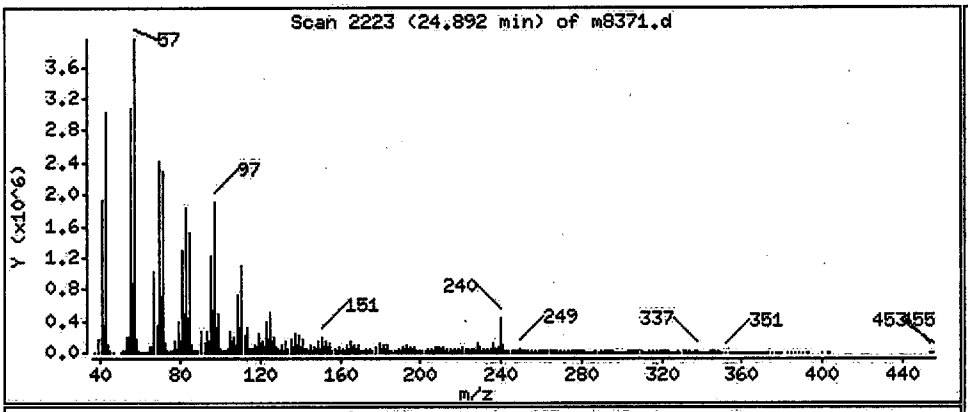
Operator: dce

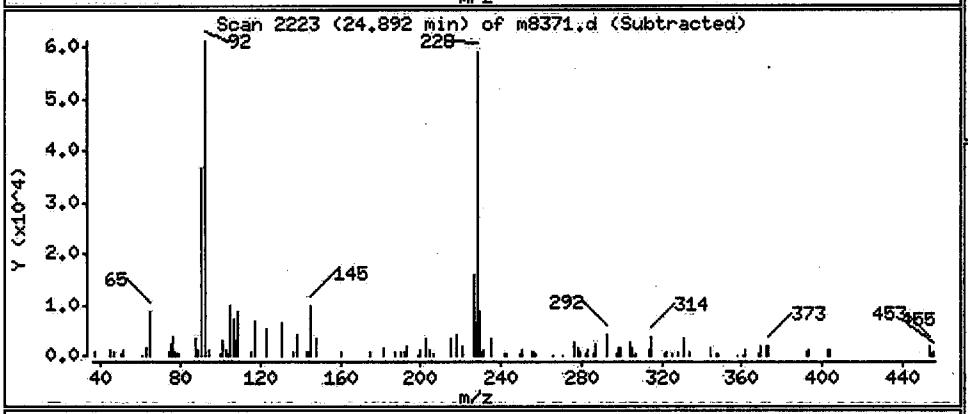
Column phase: ZB-5

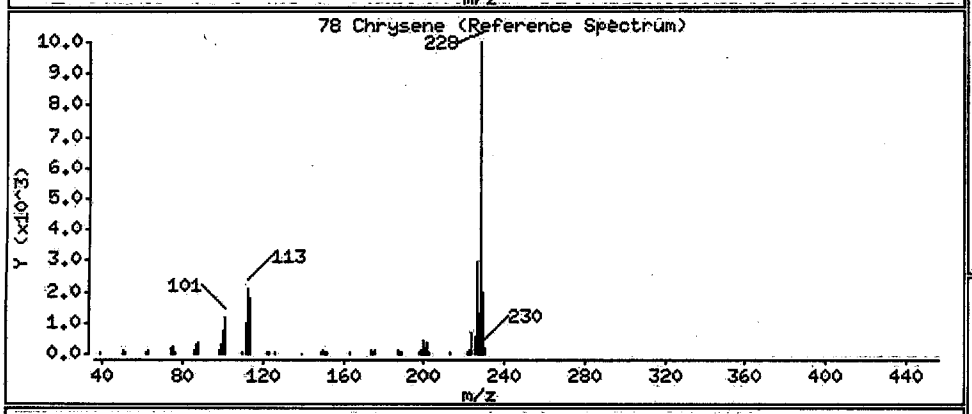
Column diameter: 0.25

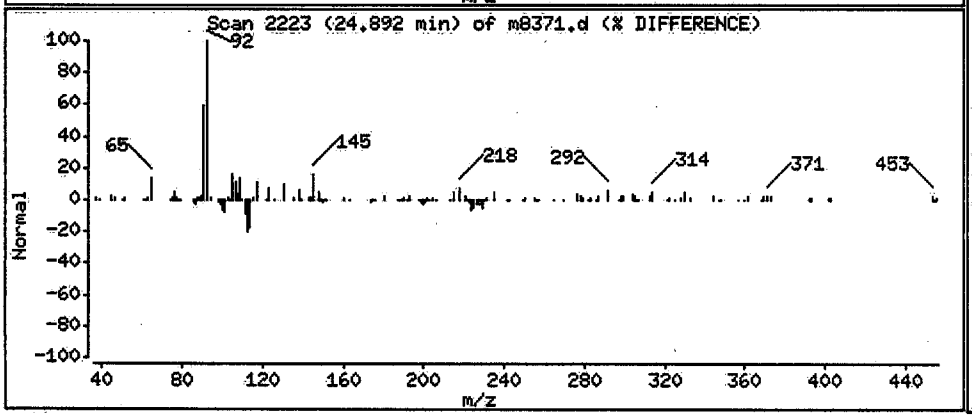
78 Chrysene

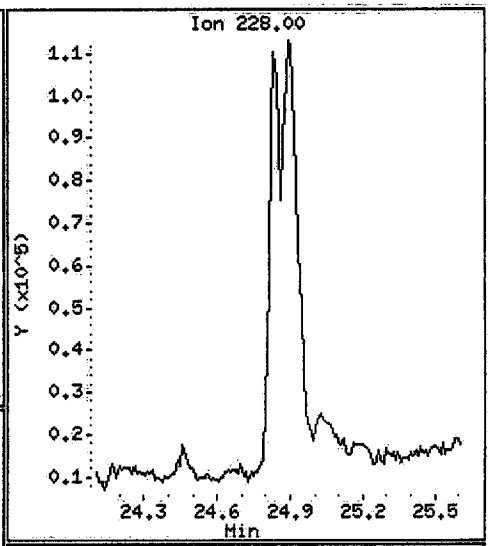
Concentration: 14.1 ug/L

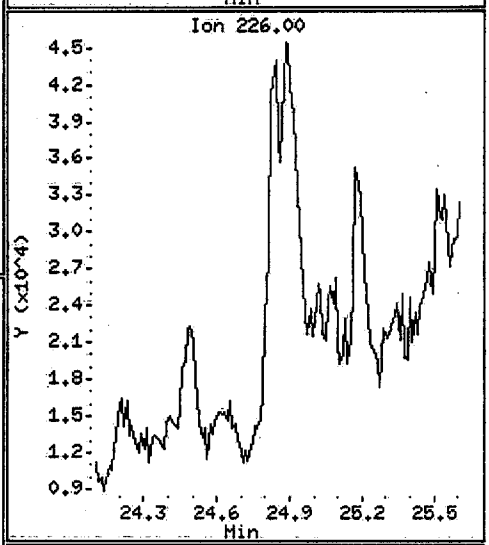


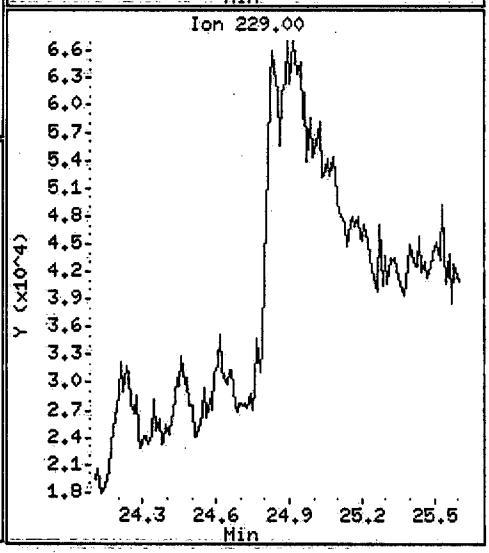












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

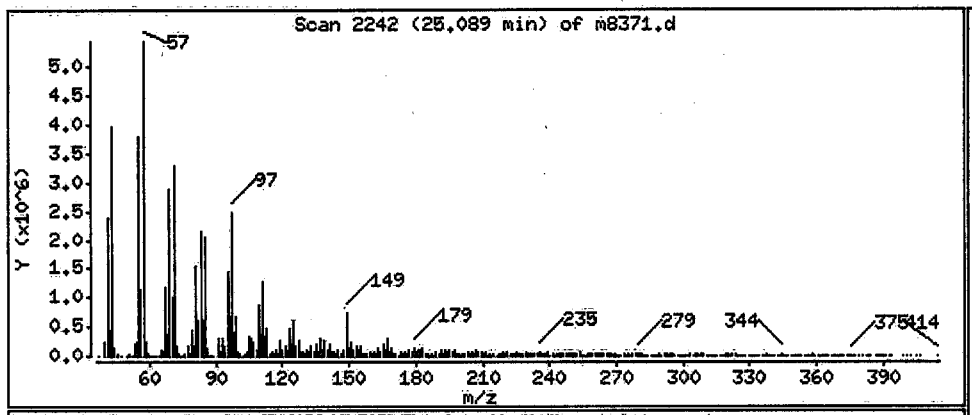
Operator: dce

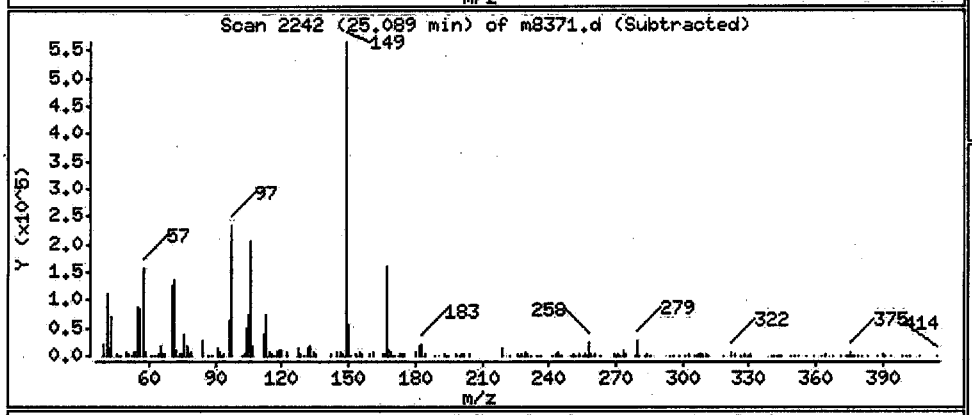
Column phase: ZB-5

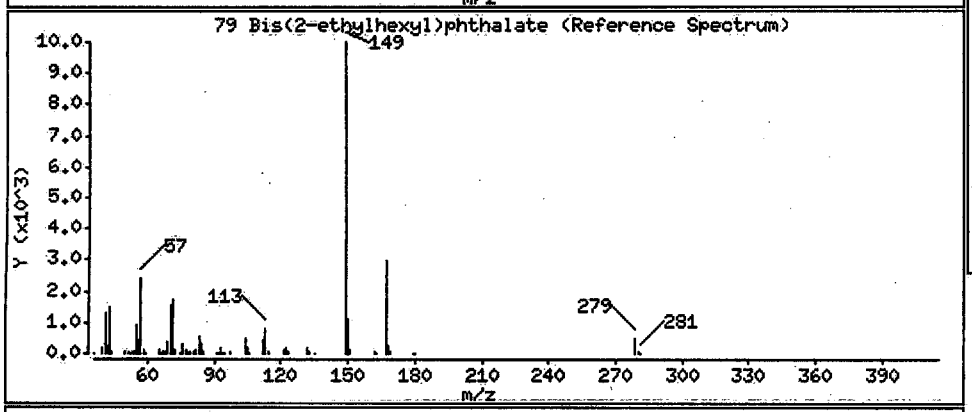
Column diameter: 0.25

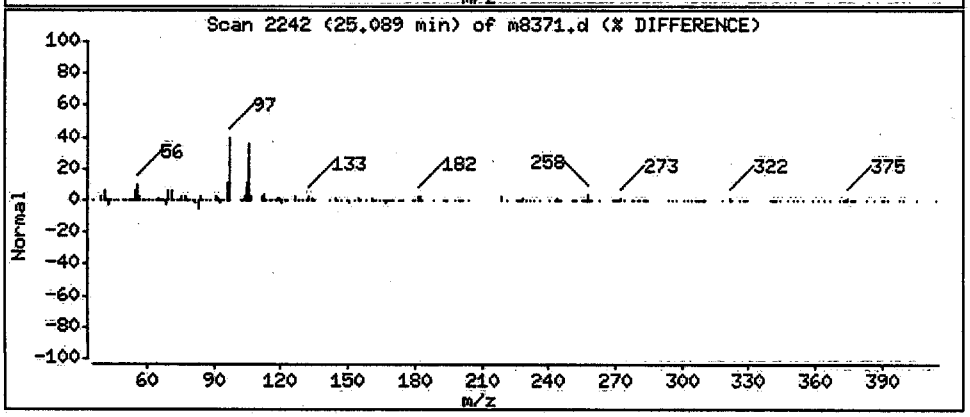
79 Bis(2-ethylhexyl)phthalate

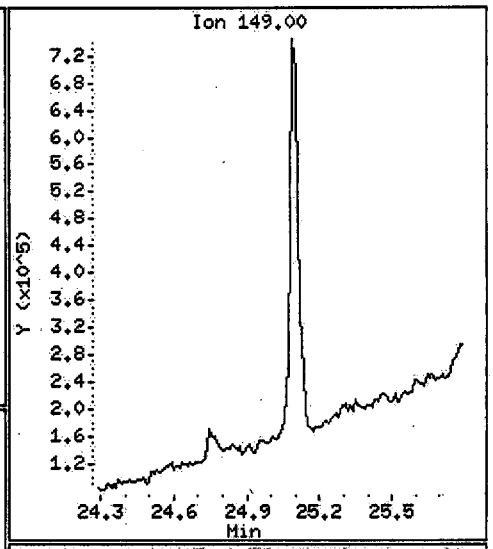
Concentration: 58.4 ug/L

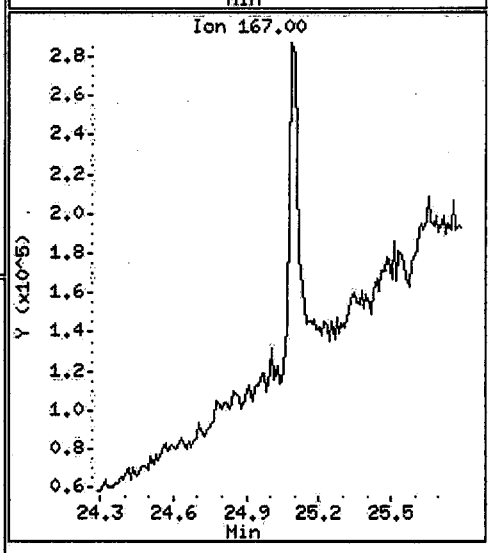












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

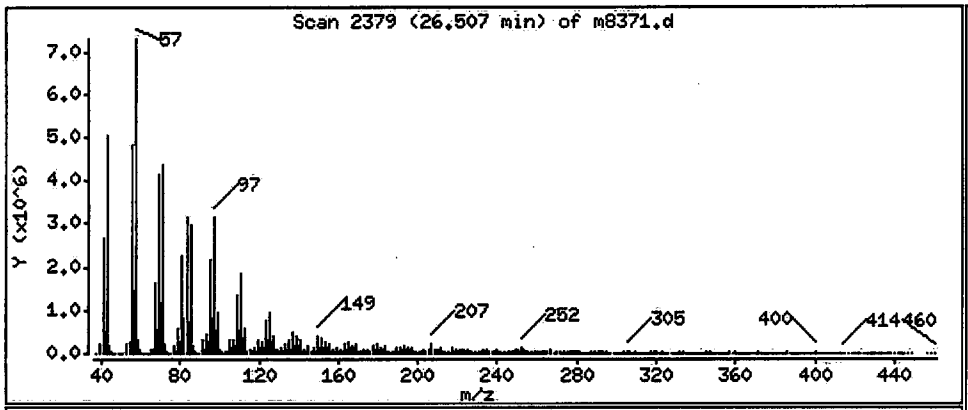
Operator: dce

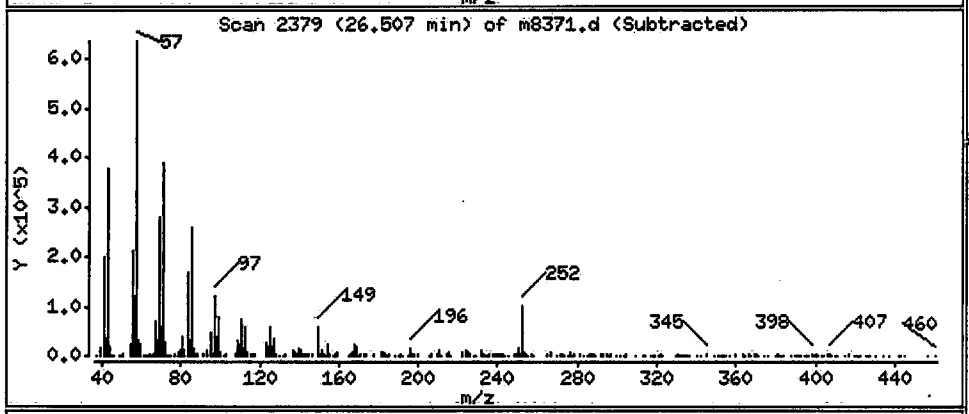
Column phase: ZB-5

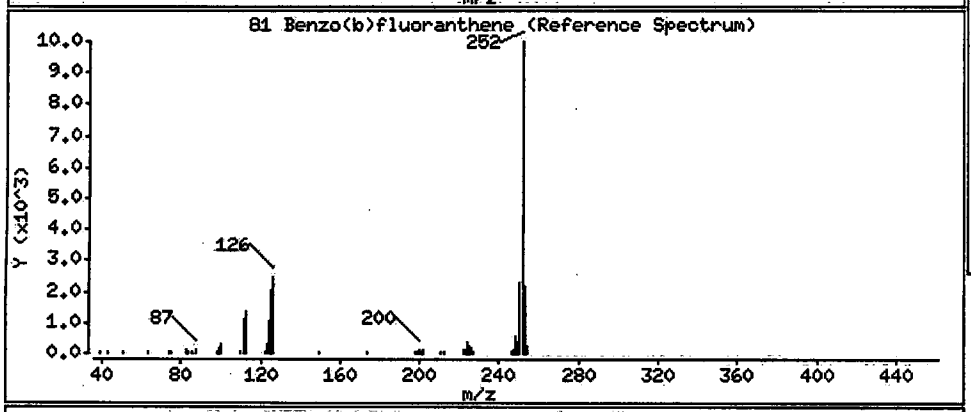
Column diameter: 0.25

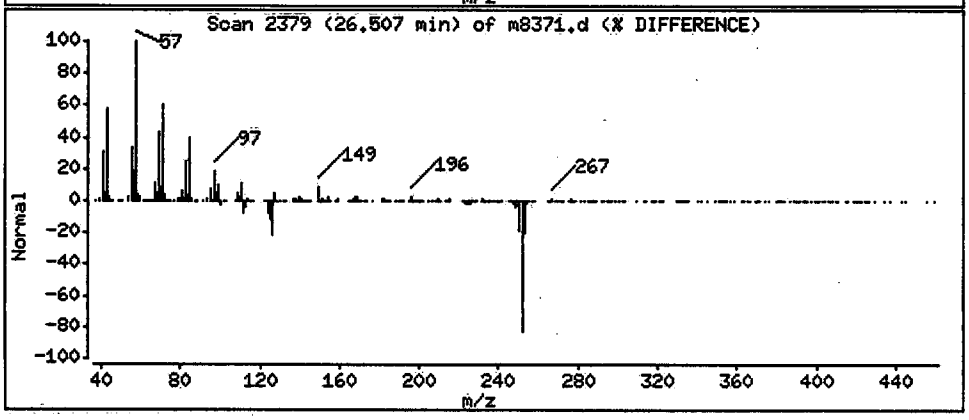
81 Benzo(b)fluoranthene

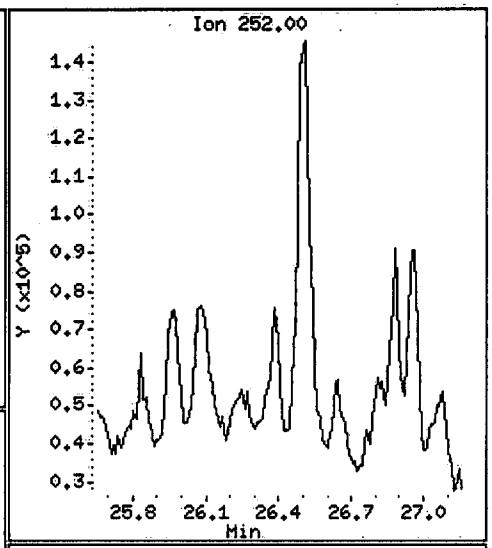
Concentration: 16.4 ug/L

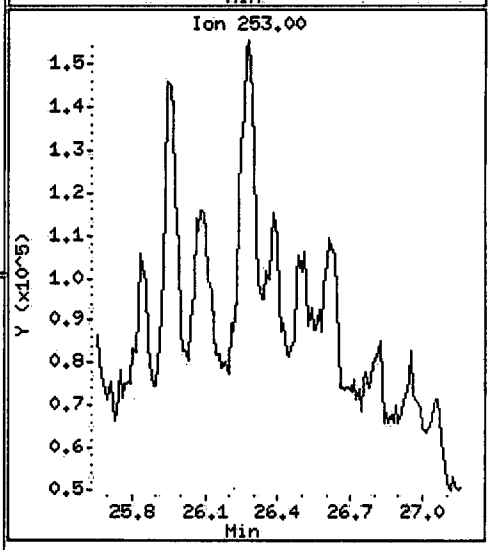












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

Volume Injected (uL): 2.0

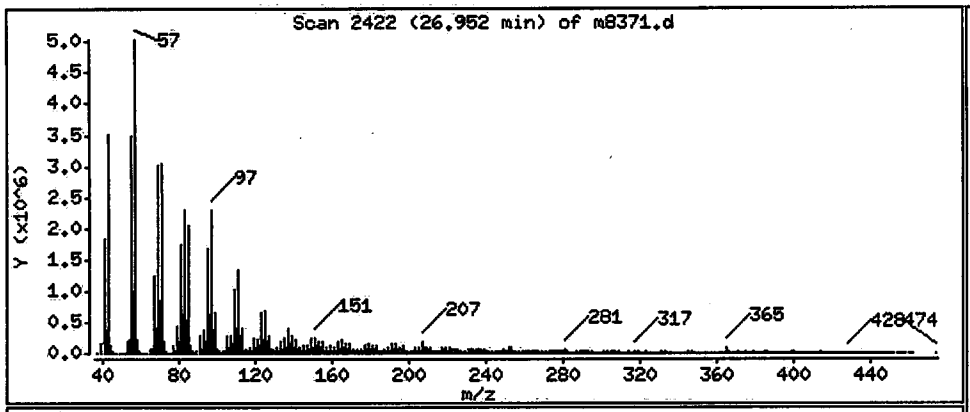
Operator: dce

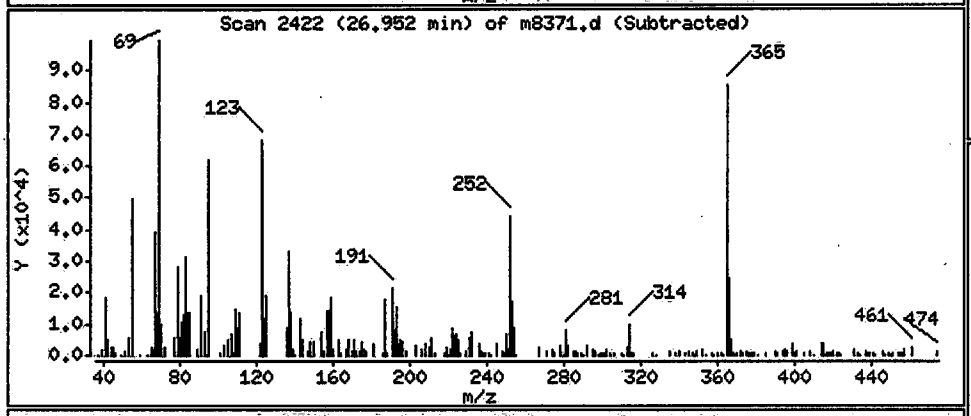
Column phase: ZB-5

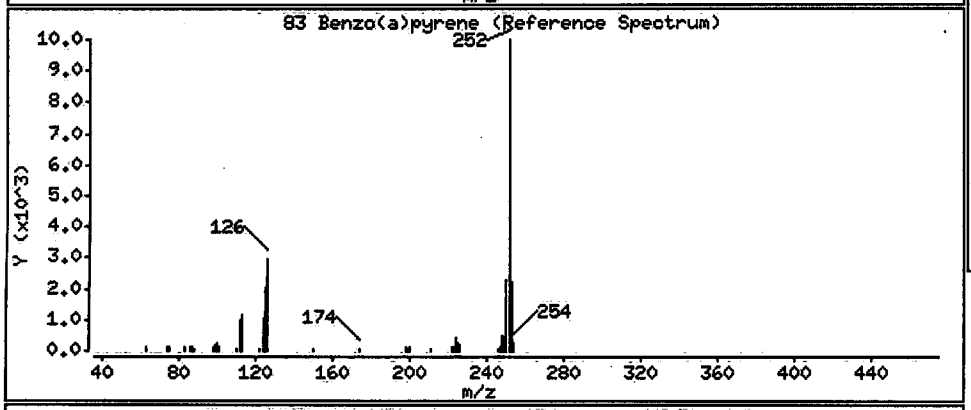
Column diameter: 0.25

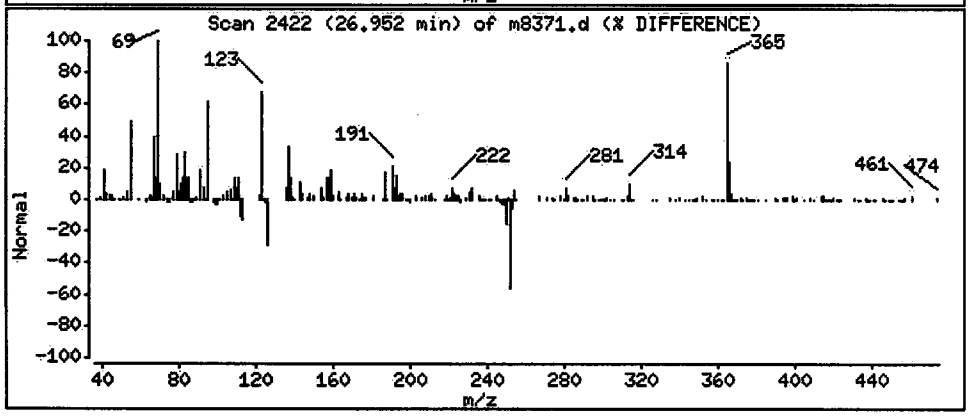
83 Benzo(a)pyrene

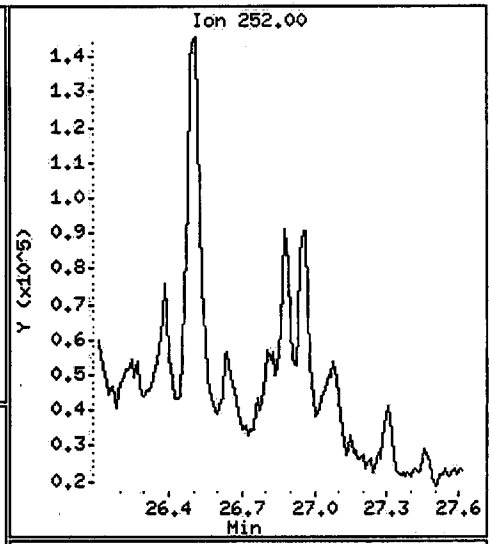
Concentration: 7.35 ug/L

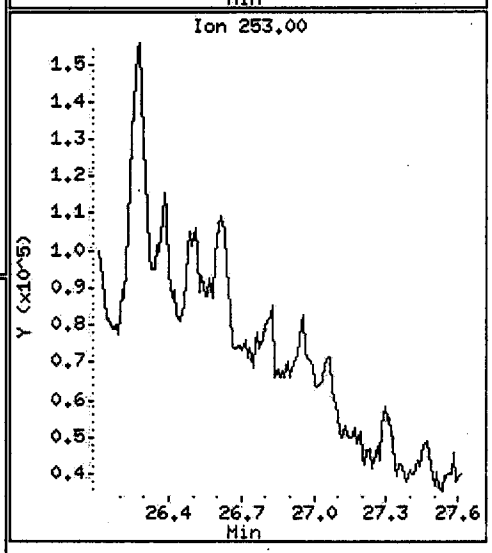












Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

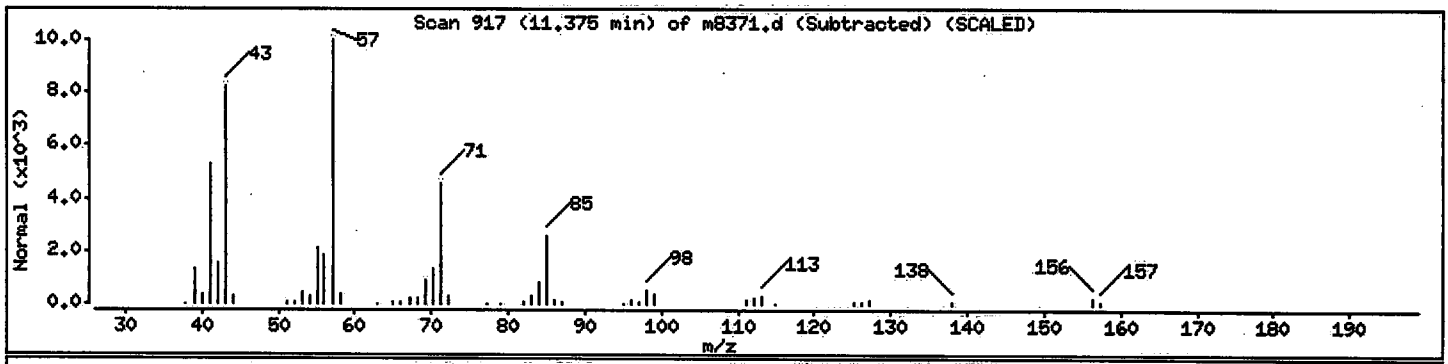
Volume Injected (uL): 2.0

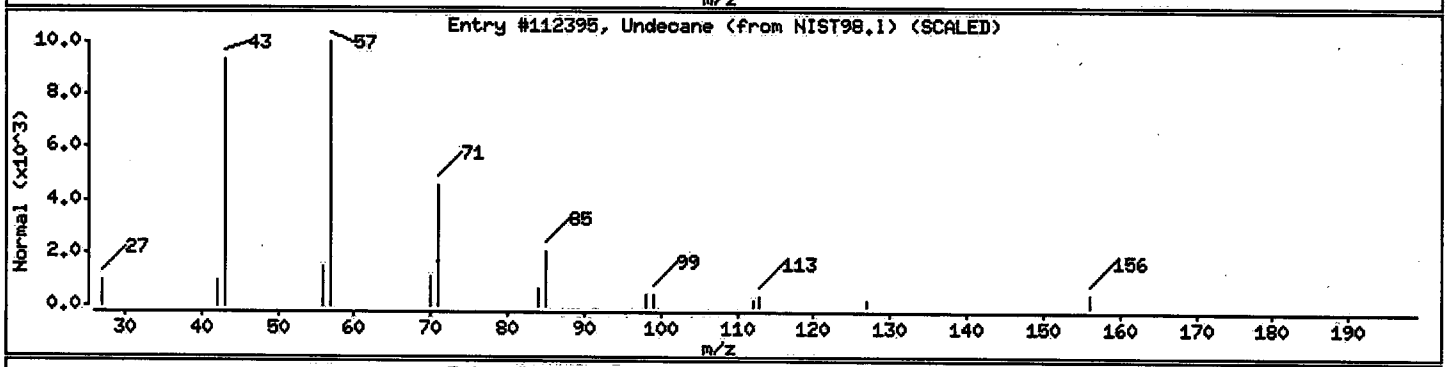
Operator: dce

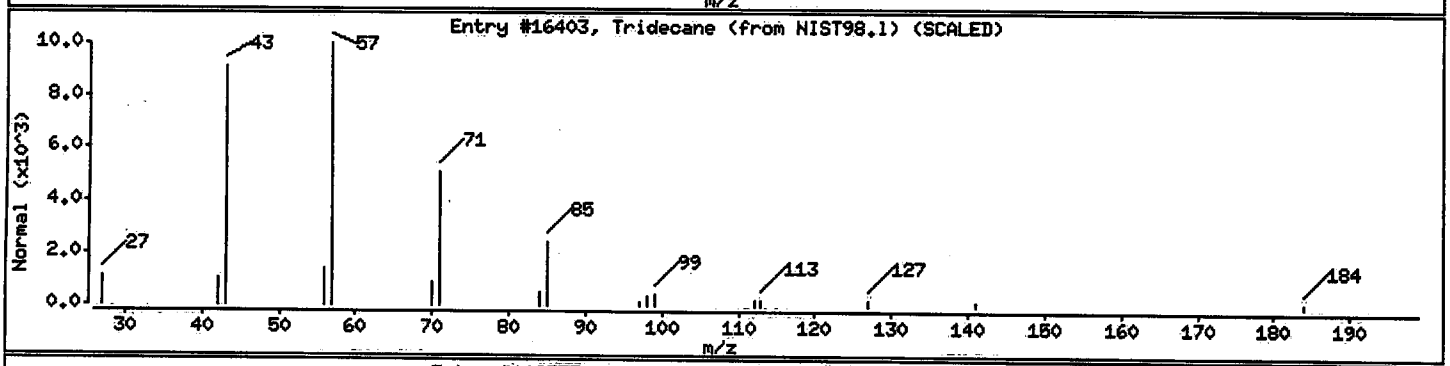
Column phase: ZB-5

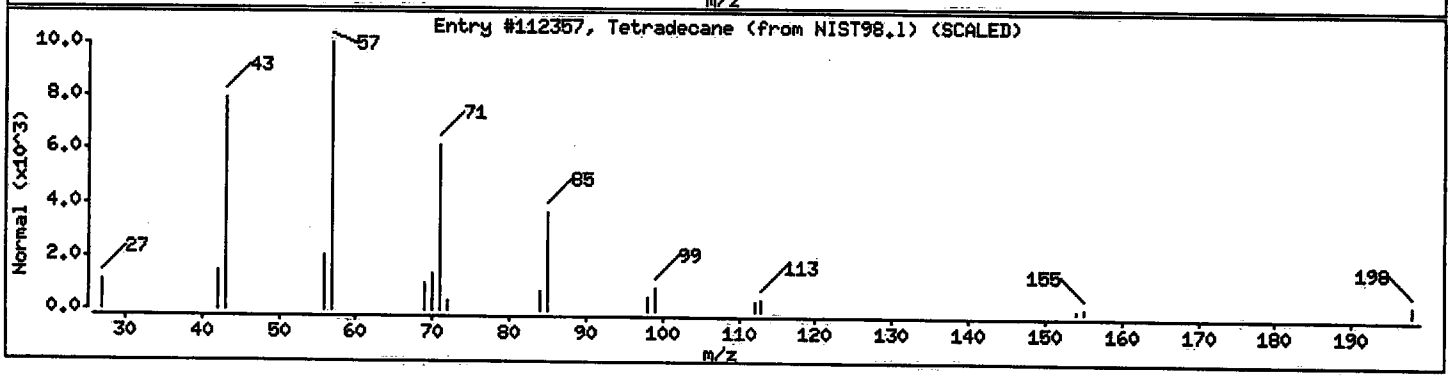
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NIST98.1	112395	87	C11H24	156
Tridecane	629-50-5	NIST98.1	16403	86	C13H28	184
Tetradecane	629-59-4	NIST98.1	112357	72	C14H30	198









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

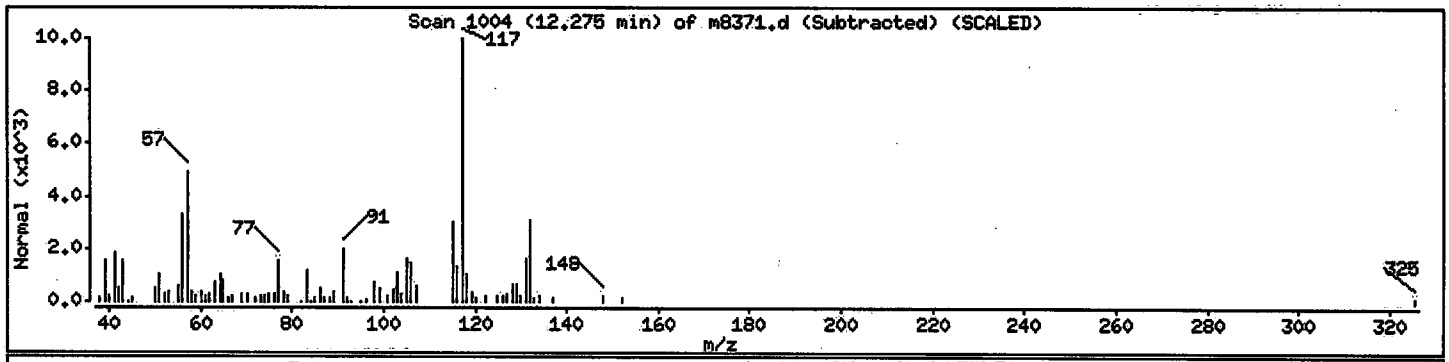
Volume Injected (uL): 2.0

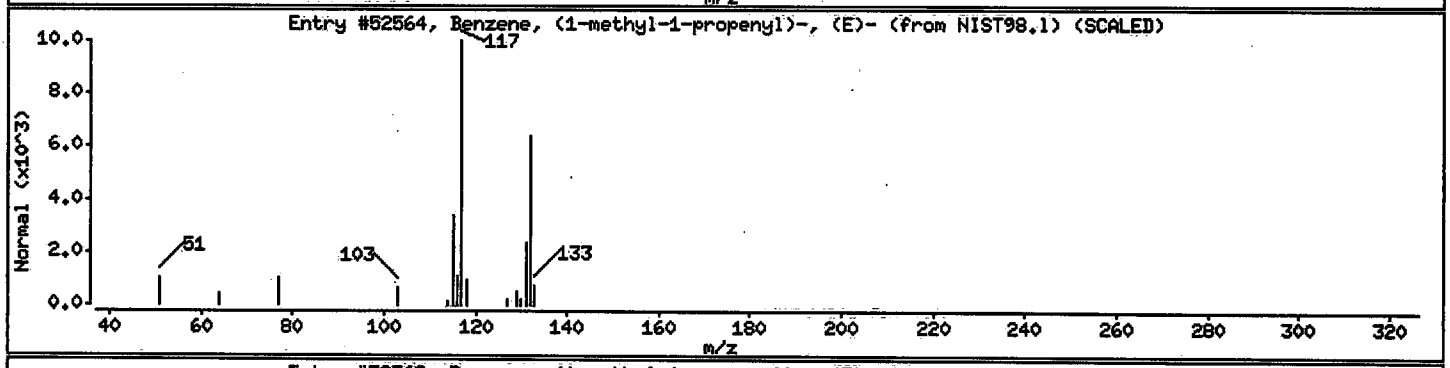
Operator: dce

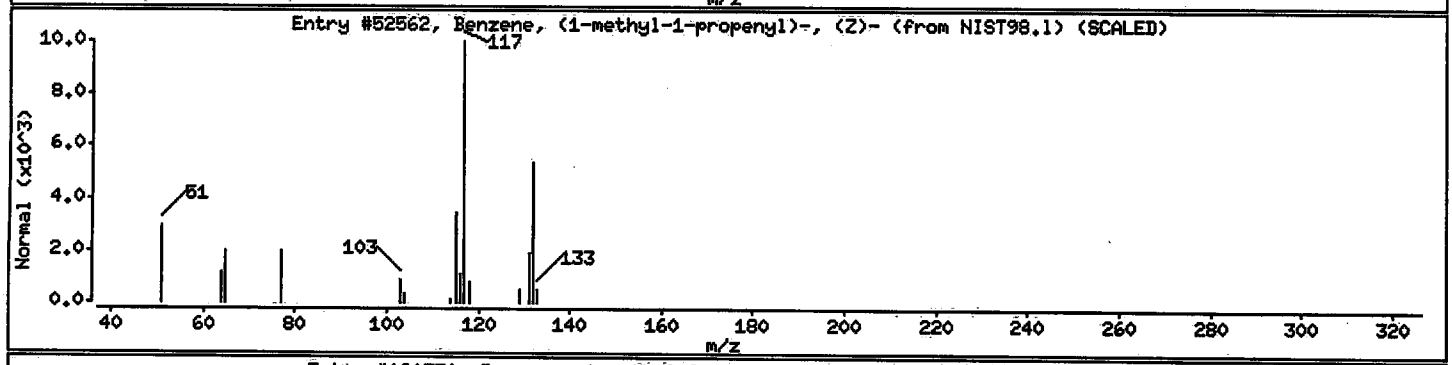
Column phase: ZB-5

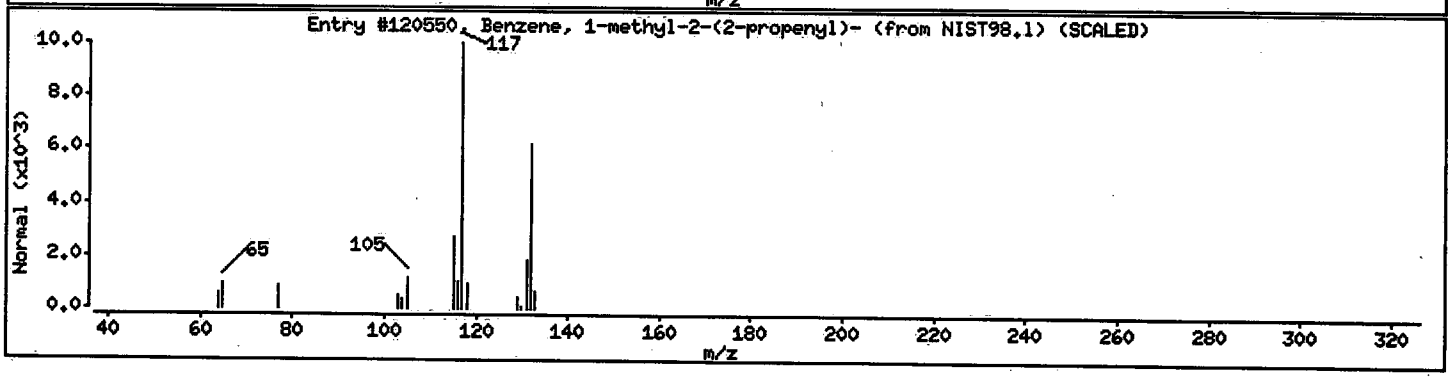
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, (1-methyl-1-propenyl)-, (E)-	768-00-3	NIST98.1	52564	87	C10H12	132
Benzene, (1-methyl-1-propenyl)-, (Z)-	767-99-7	NIST98.1	52562	83	C10H12	132
Benzene, 1-methyl-2-(2-propenyl)-	1587-04-8	NIST98.1	120550	83	C10H12	132









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

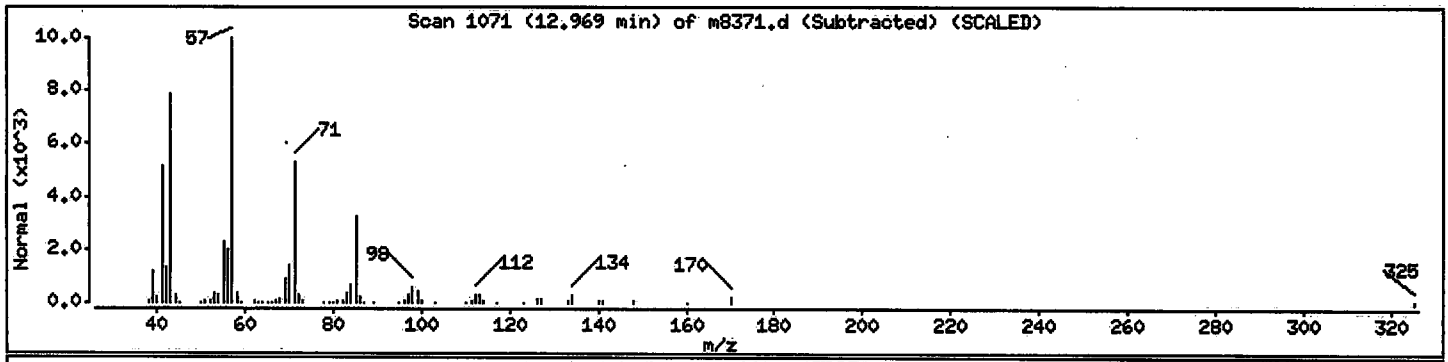
Volume Injected (uL): 2.0

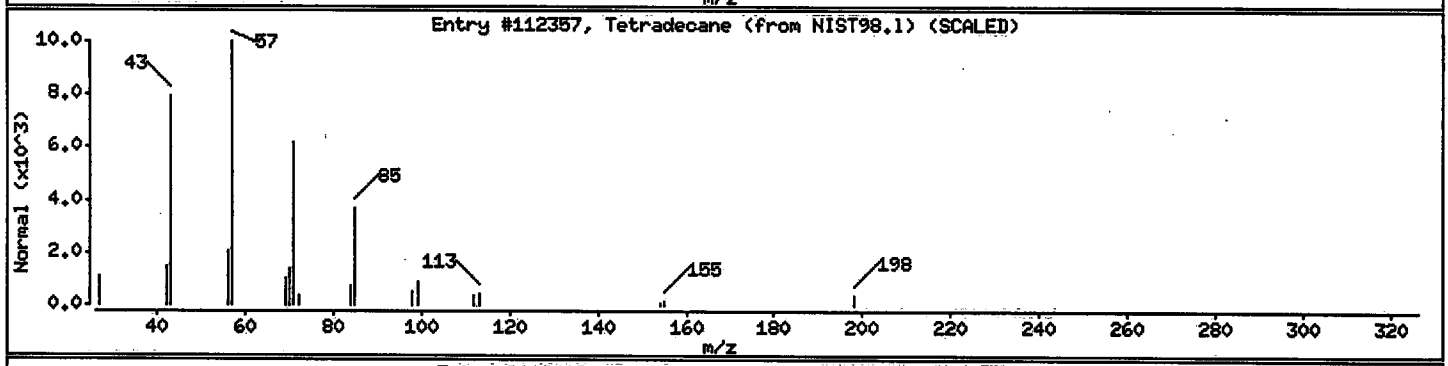
Operator: dce

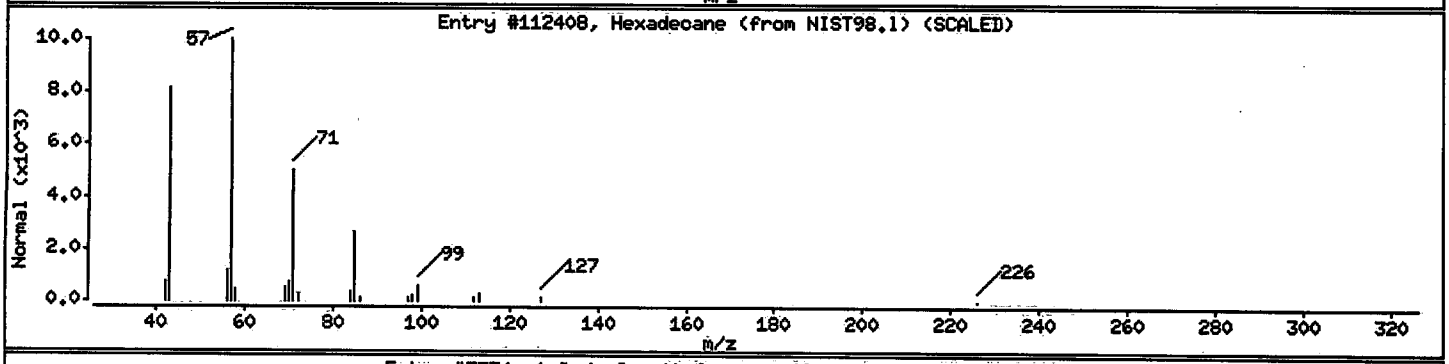
Column phase: ZB-5

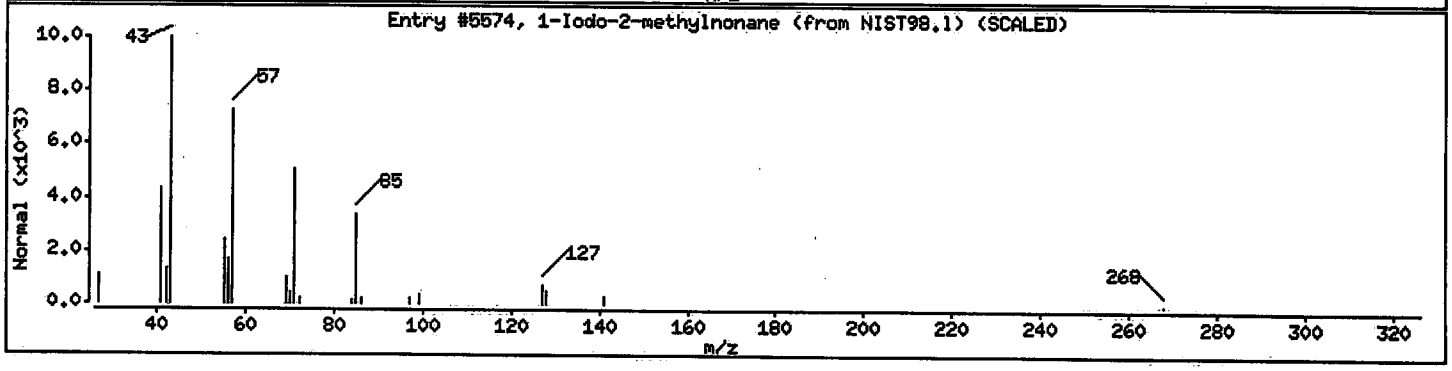
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112357	83	C14H30	198
Hexadecane	544-76-3	NIST98.1	112408	72	C16H34	226
1-Iodo-2-methylnonane	1000101-47-9	NIST98.1	5574	64	C10H21I	268









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

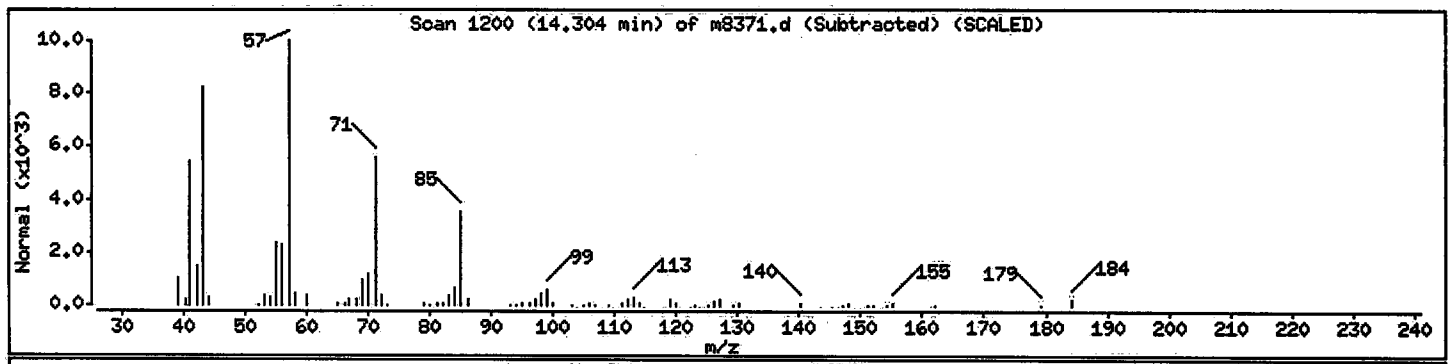
Volume Injected (uL): 2.0

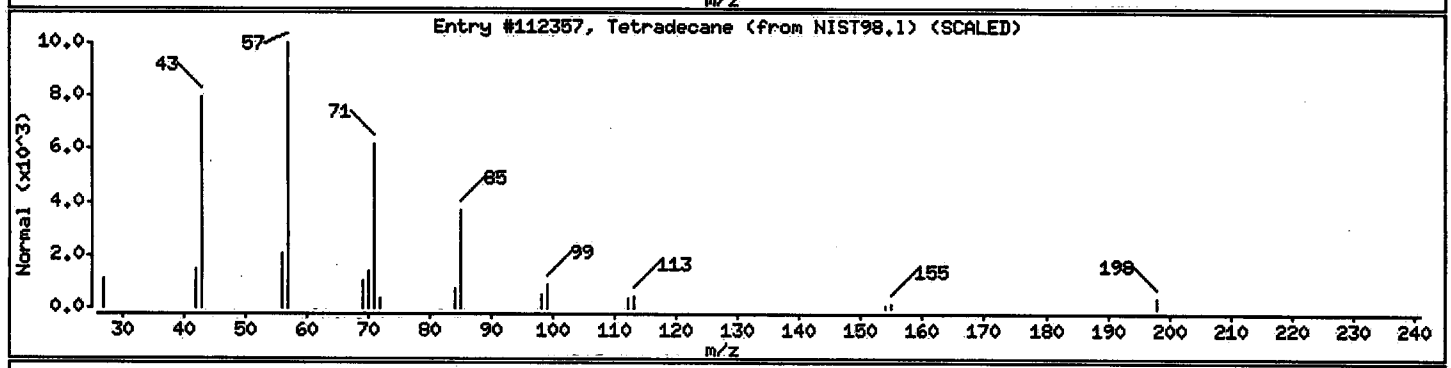
Operator: dce

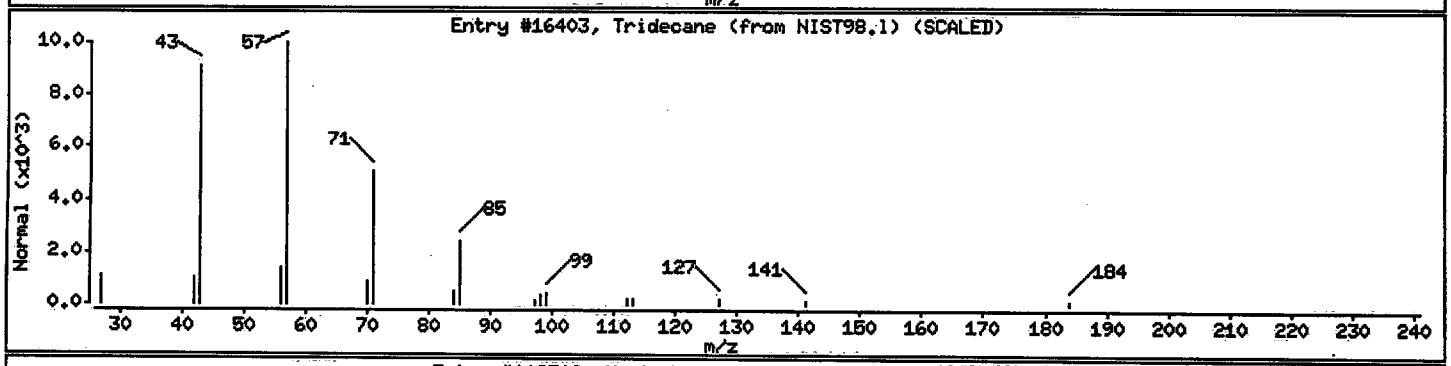
Column phase: ZB-5

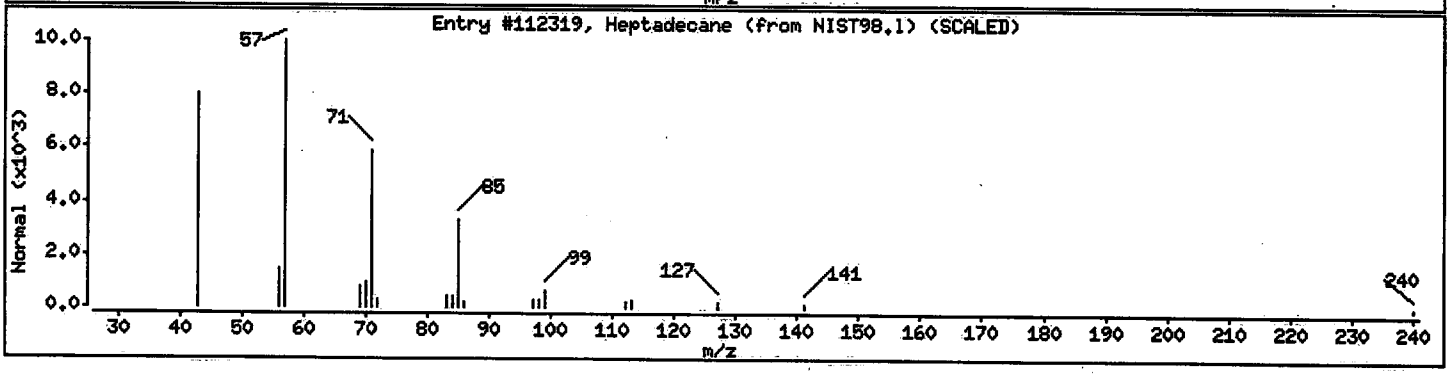
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112357	90	C14H30	198
Tridecane	629-50-5	NIST98.1	16403	87	C13H28	184
Heptadecane	629-78-7	NIST98.1	112319	87	C17H36	240









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

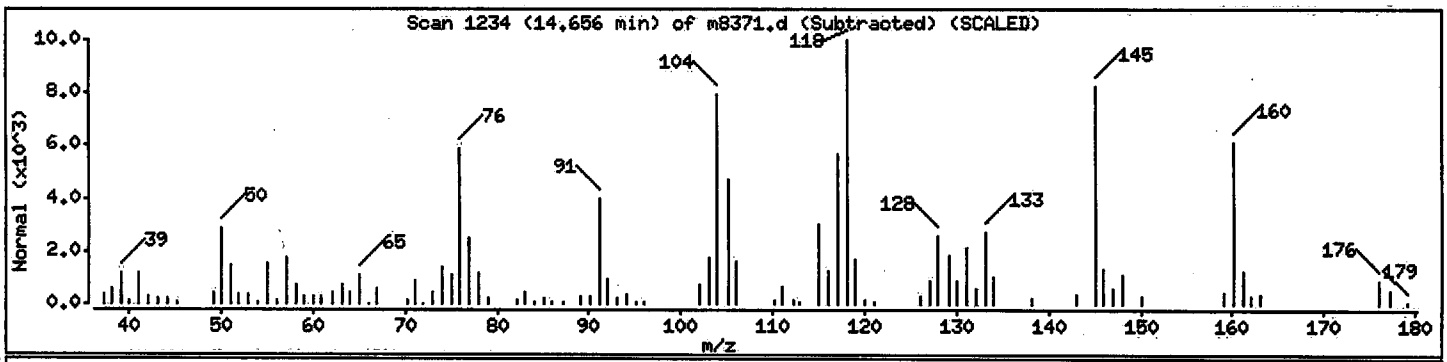
Volume Injected (uL): 2.0

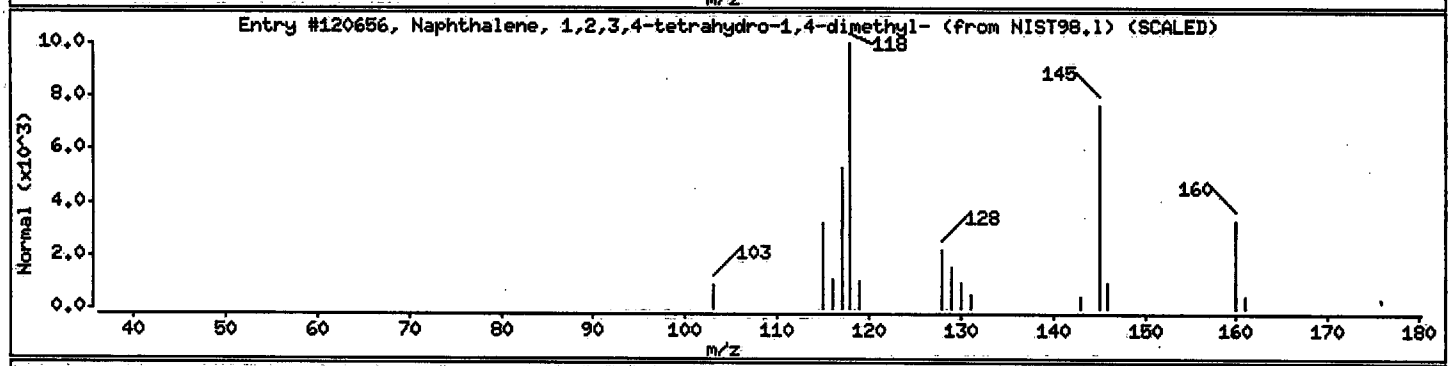
Operator: dce

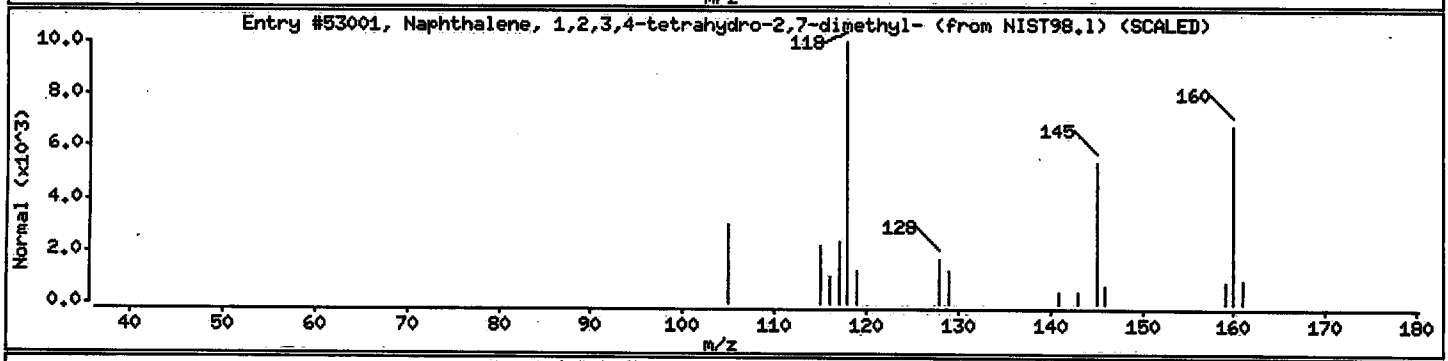
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime	4175-54-6	NIST98.l	120656	78	C12H16	160
Naphthalene, 1,2,3,4-tetrahydro-2,7-dime	13065-07-1	NIST98.l	53001	55	C12H16	160







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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

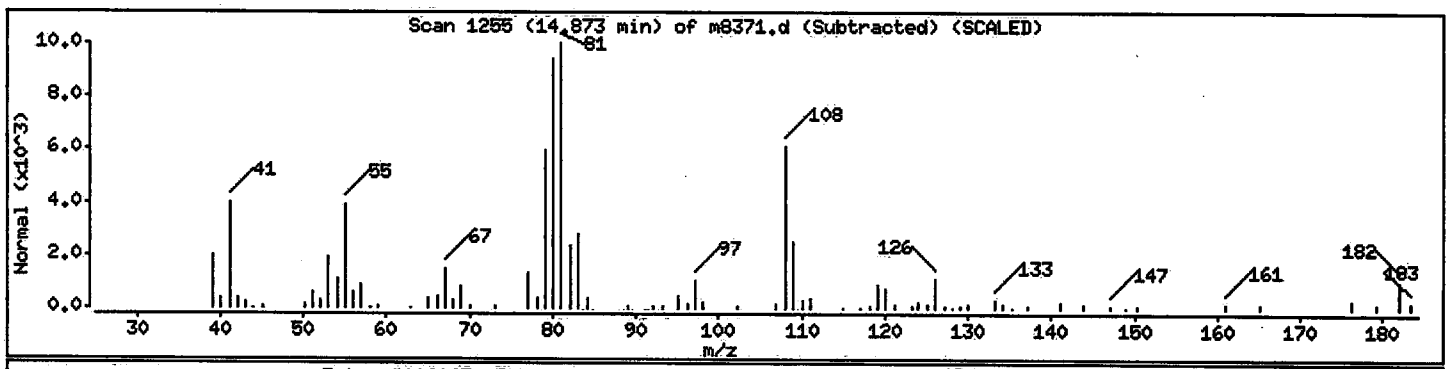
Volume Injected (uL): 2.0

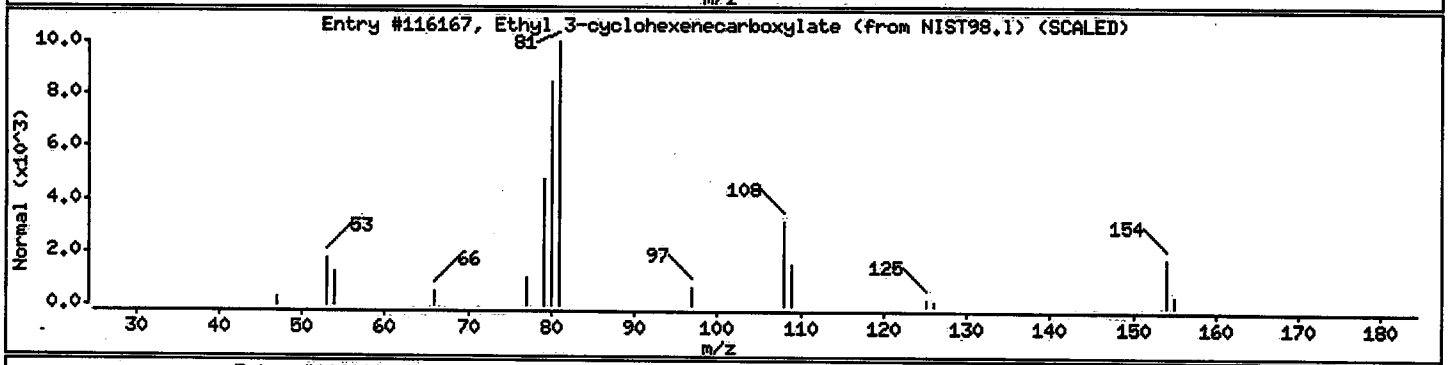
Operator: dce

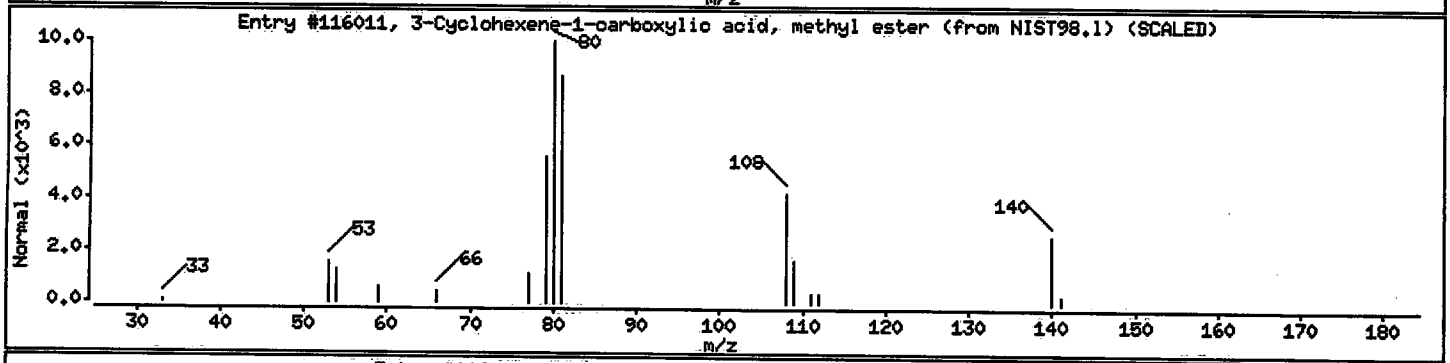
Column phase: ZB-5

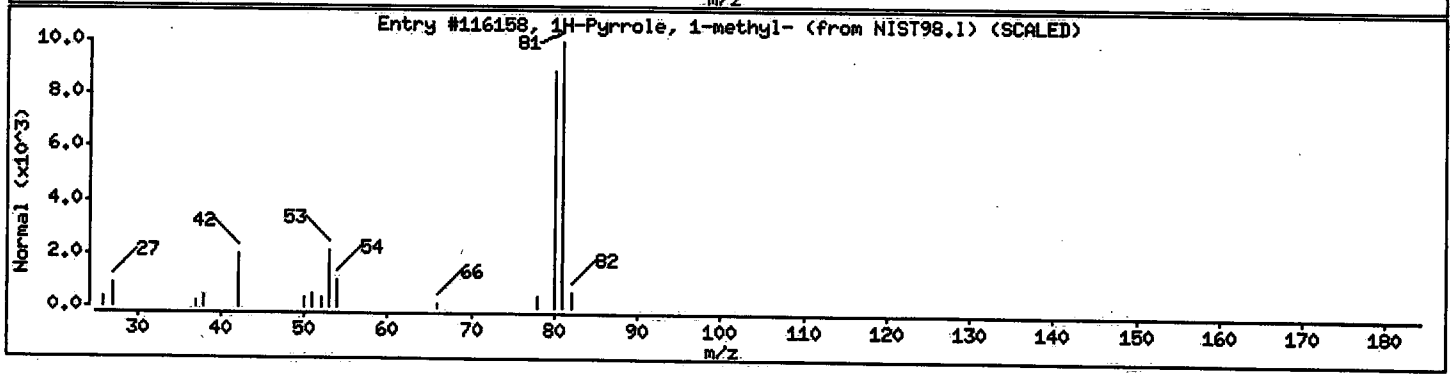
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl 3-cyclohexenecarboxylate	15111-56-5	NIST98.1	116167	72	C9H14O2	154
3-Cyclohexene-1-carboxylic acid, methyl	6493-77-2	NIST98.1	116011	64	C8H12O2	140
1H-Pyrrole, 1-methyl-	96-54-8	NIST98.1	116158	58	C5H7N	81









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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

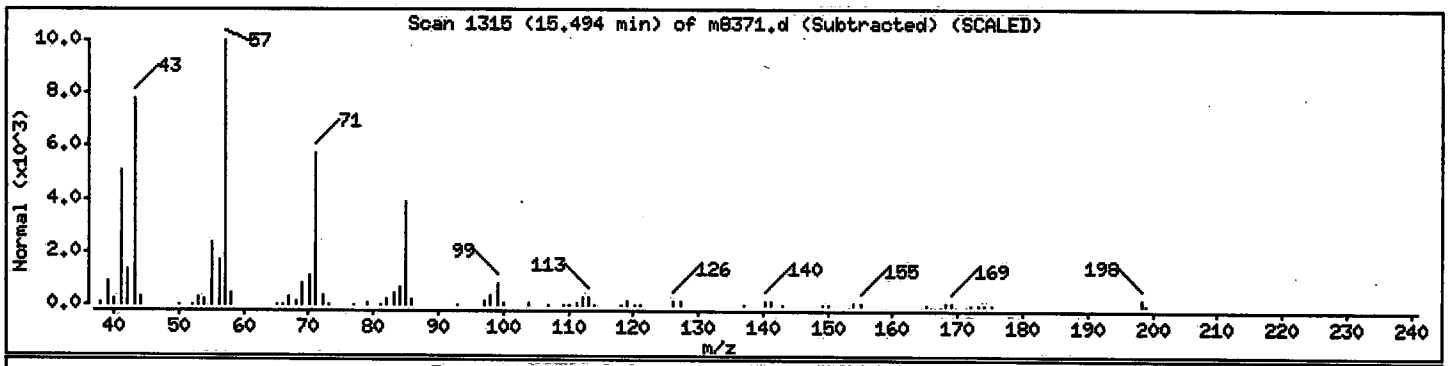
Volume Injected (uL): 2.0

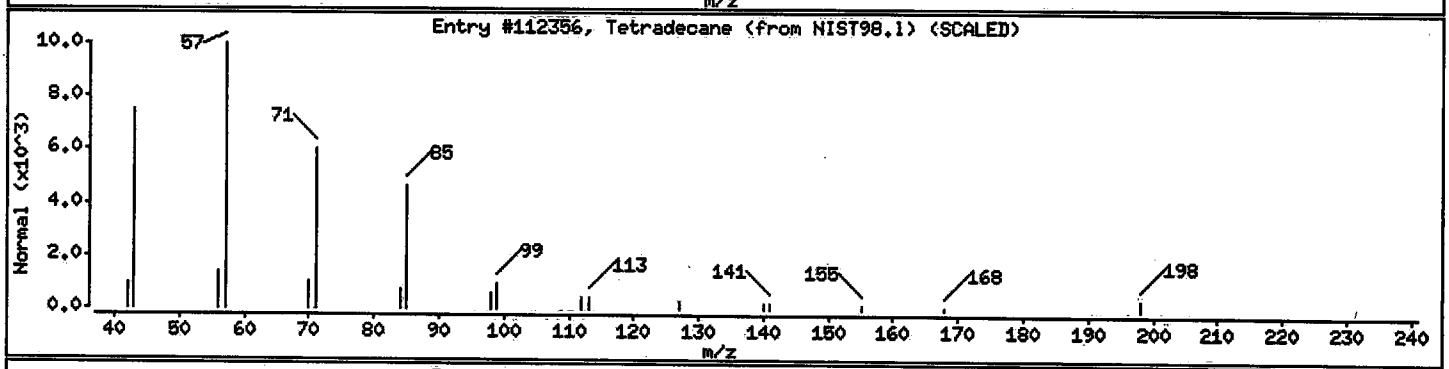
Operator: dce

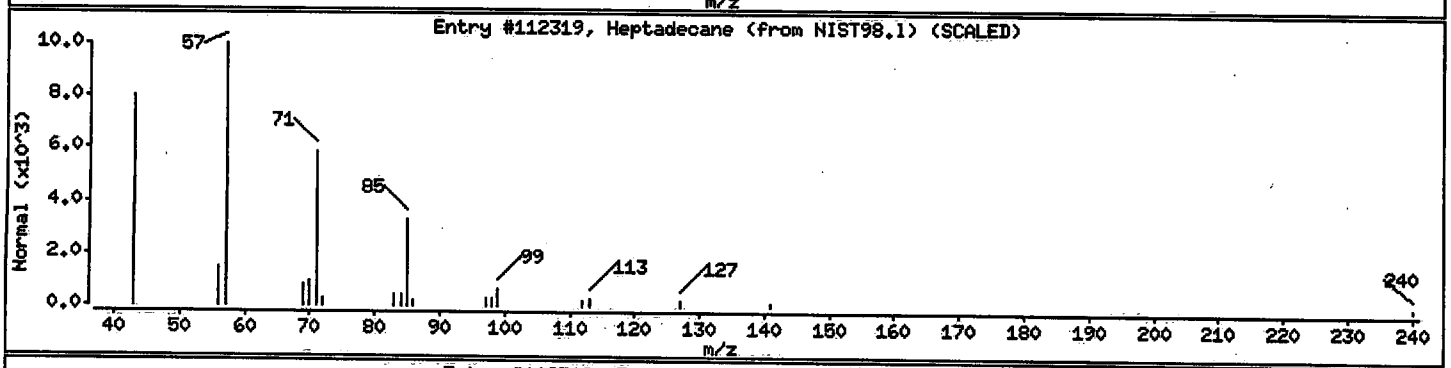
Column phase: ZB-5

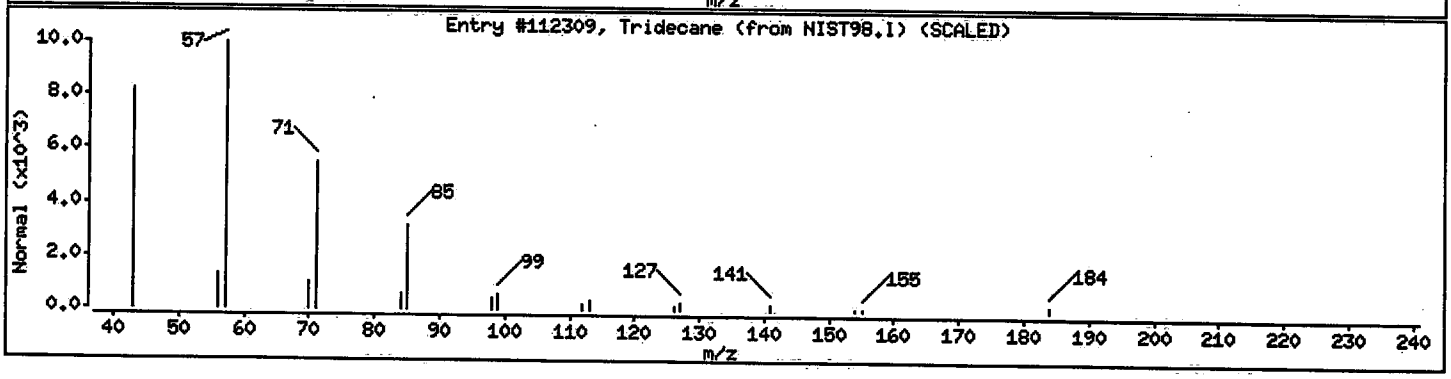
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane	629-59-4	NIST98.1	112356	97	C14H30	198
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Tridecane	629-50-5	NIST98.1	112309	90	C13H28	184









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

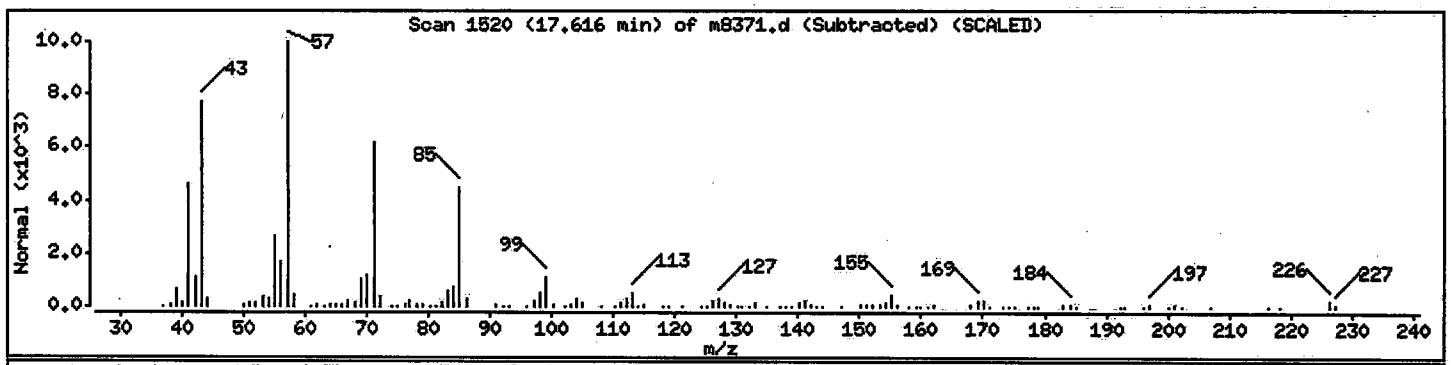
Volume Injected (uL): 2.0

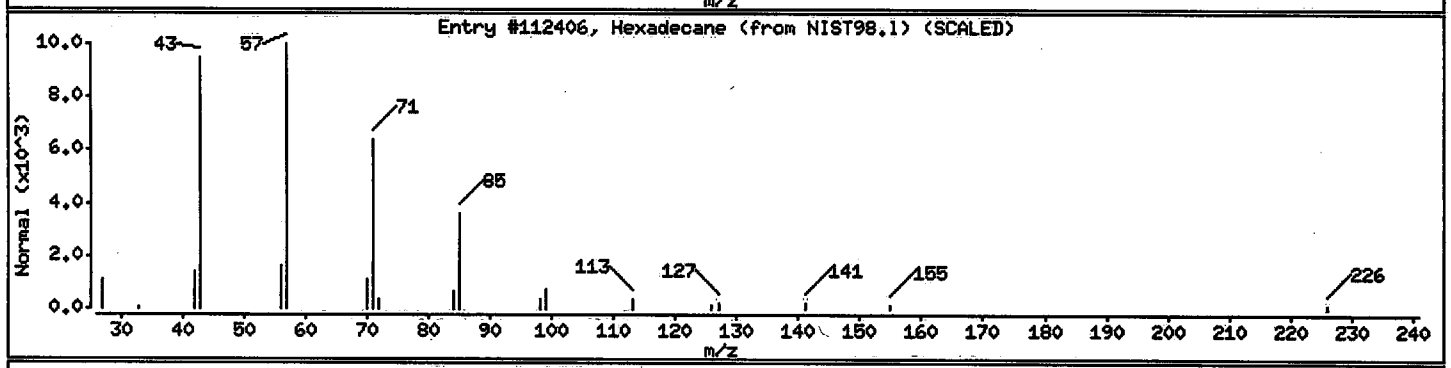
Operator: dce

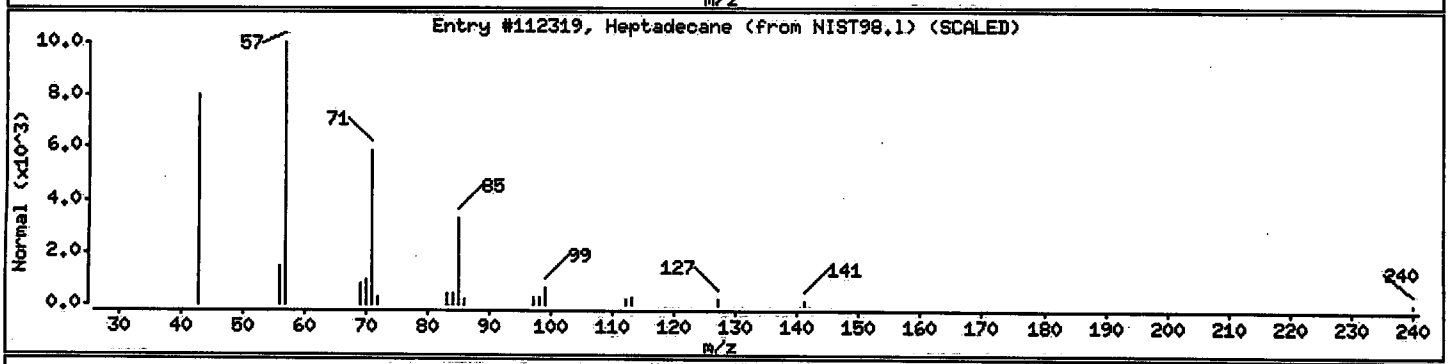
Column phase: ZB-5

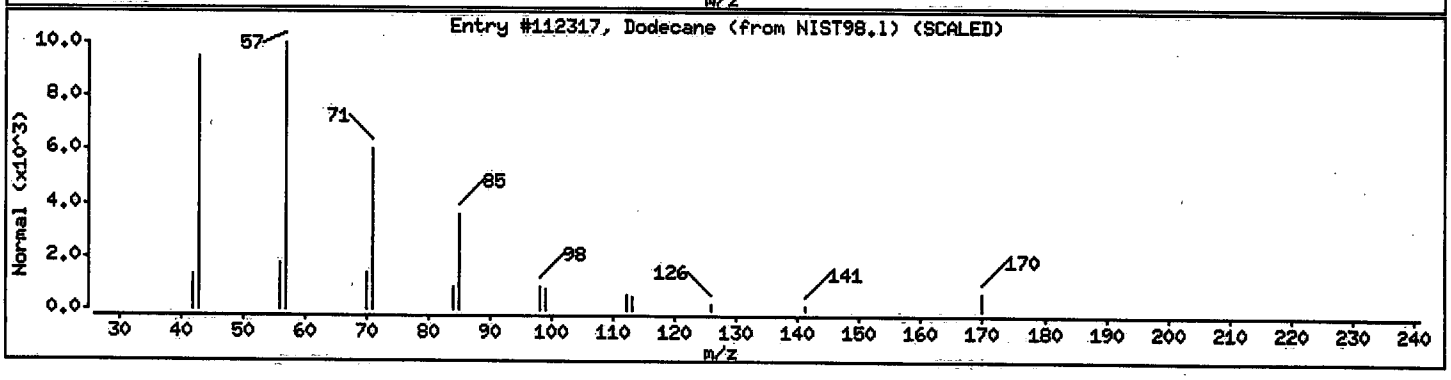
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexadecane	544-76-3	NIST98.1	112406	95	C16H34	226
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Dodecane	112-40-3	NIST98.1	112317	90	C12H26	170









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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

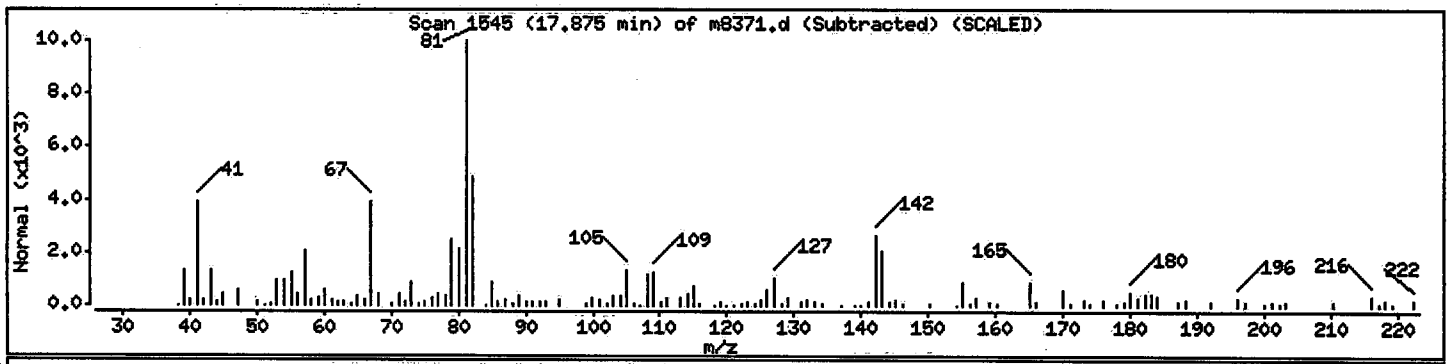
Volume Injected (uL): 2.0

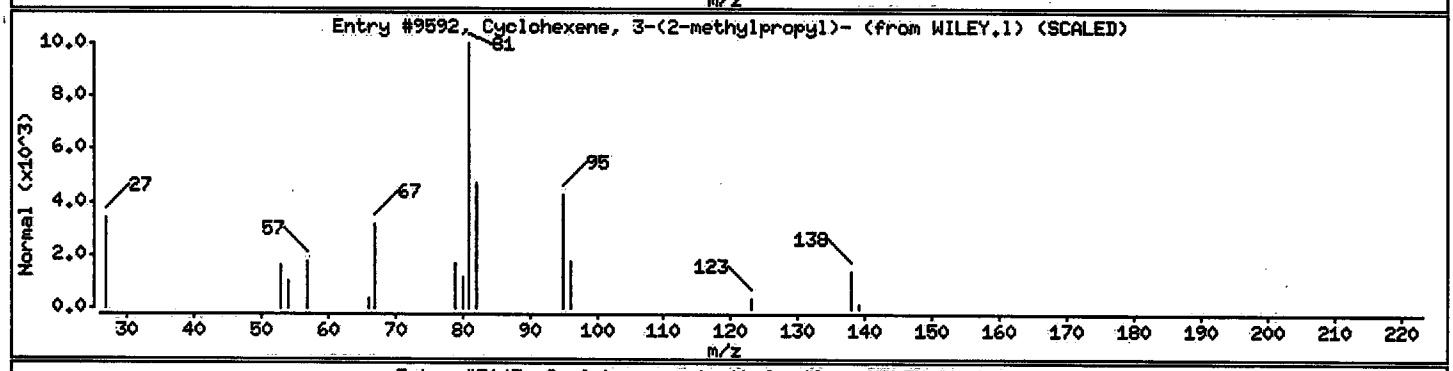
Operator: dce

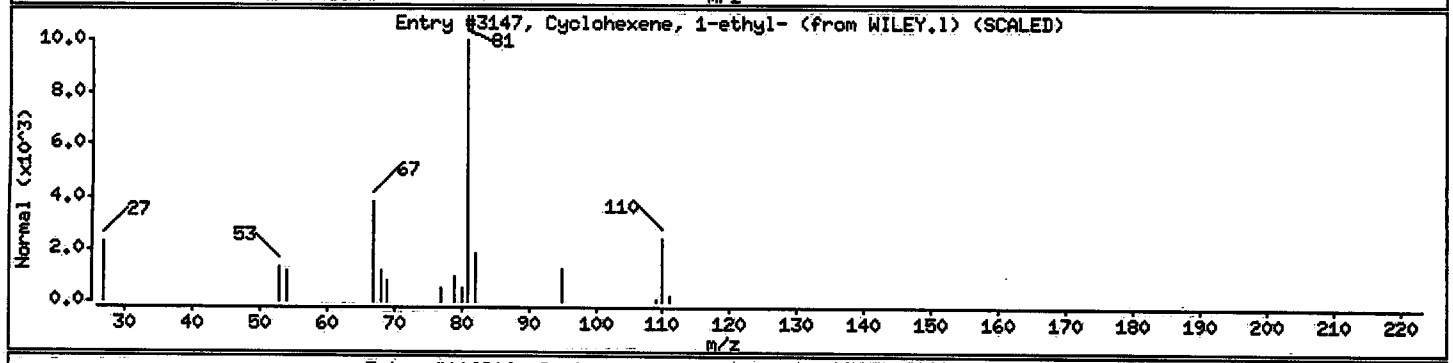
Column phase: ZB-5

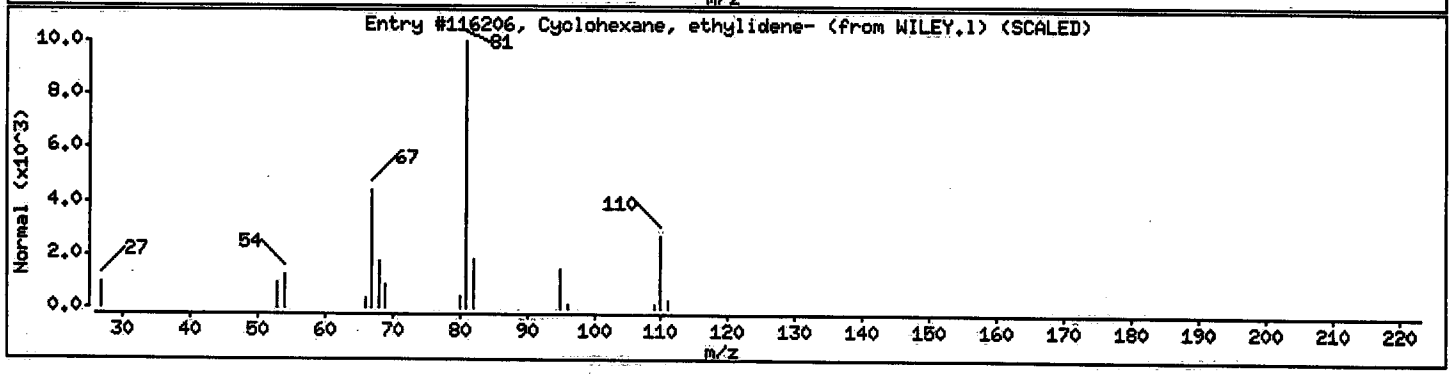
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexene, 3-(2-methylpropyl)-	4104-56-7	WILEY.l	9592	42	C10H18	138
Cyclohexene, 1-ethyl-	1453-24-3	WILEY.l	3147	25	C8H14	110
Cyclohexane, ethylidene-	1003-64-1	WILEY.l	116206	25	C8H14	110









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

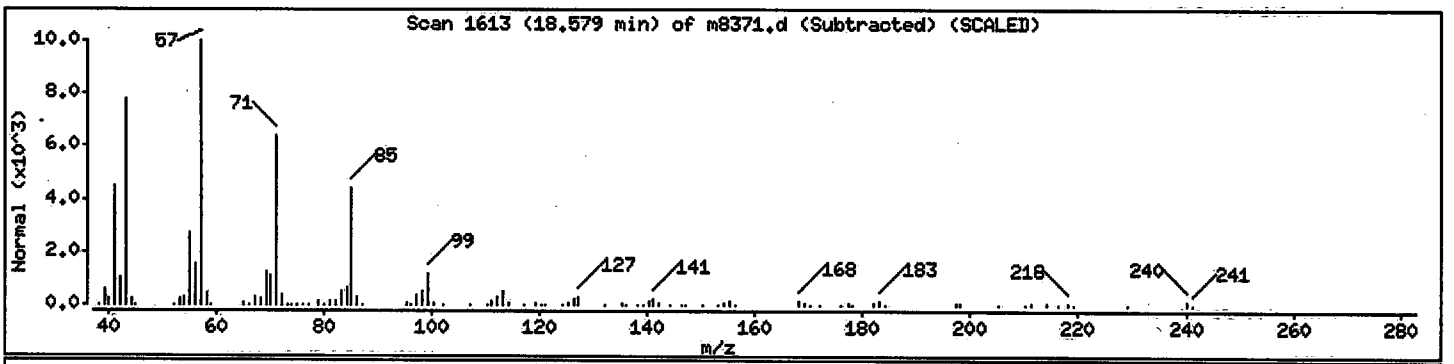
Volume Injected (uL): 2.0

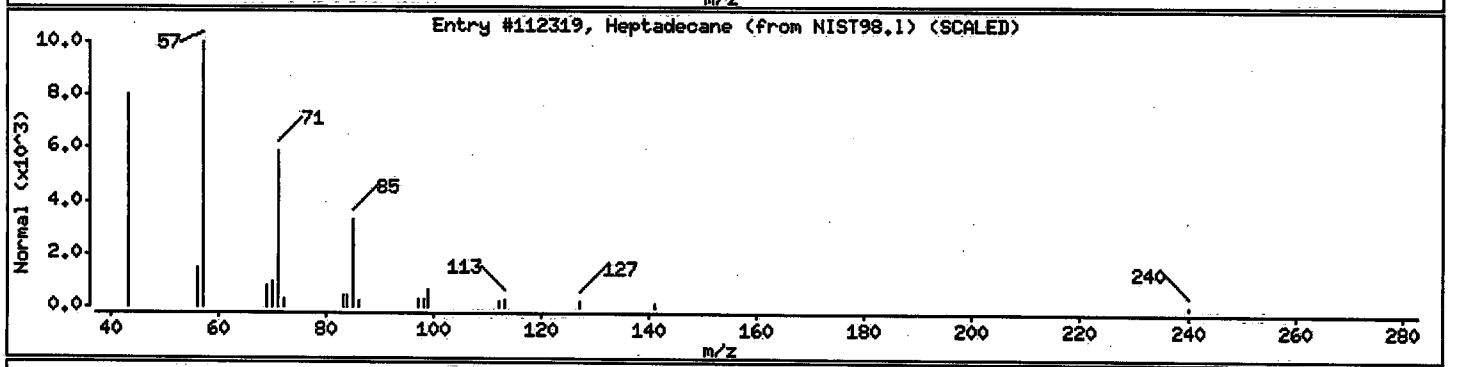
Operator: dce

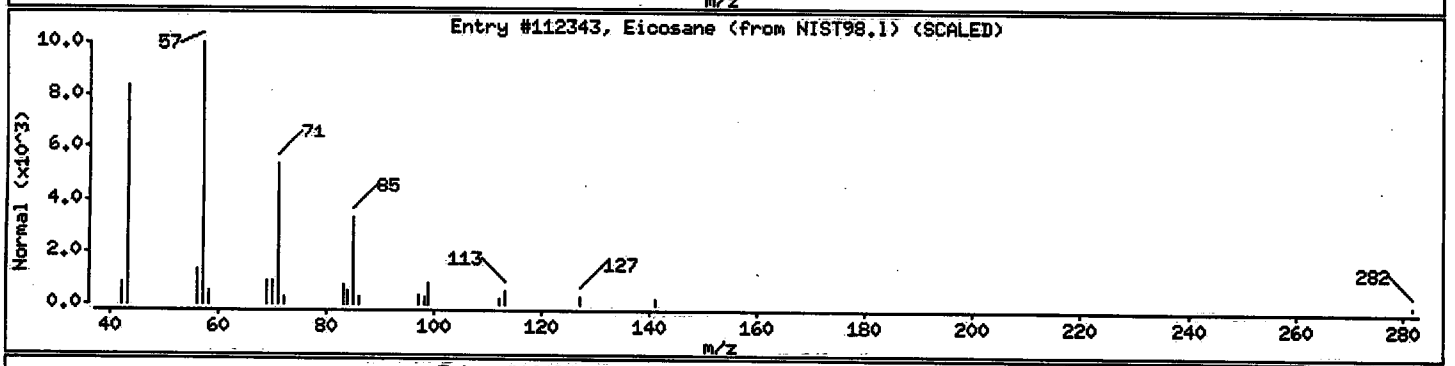
Column phase: ZB-5

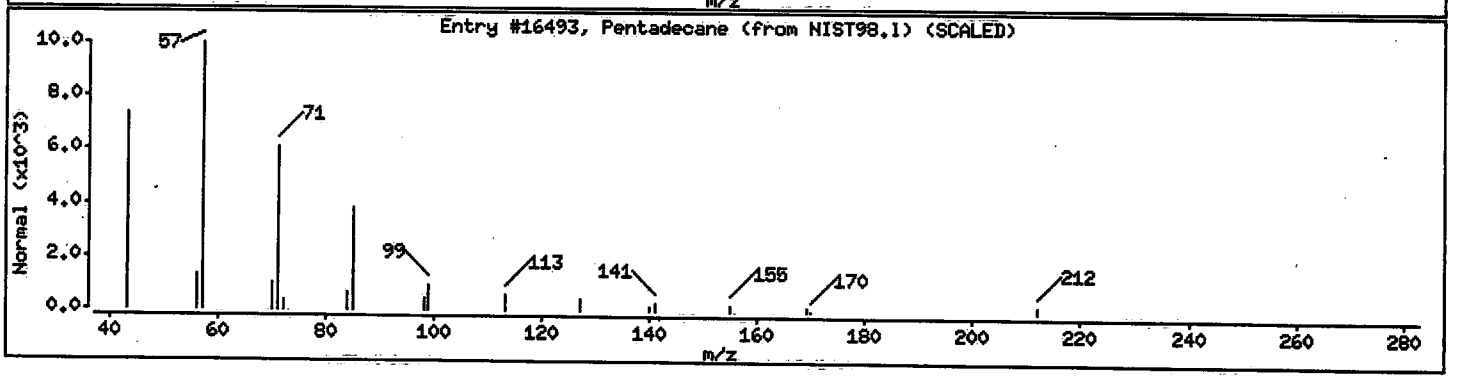
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heptadecane	629-78-7	NIST98.1	112319	98	C17H36	240
Eicosane	112-95-8	NIST98.1	112343	91	C20H42	282
Pentadecane	629-62-9	NIST98.1	16493	90	C15H32	212









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

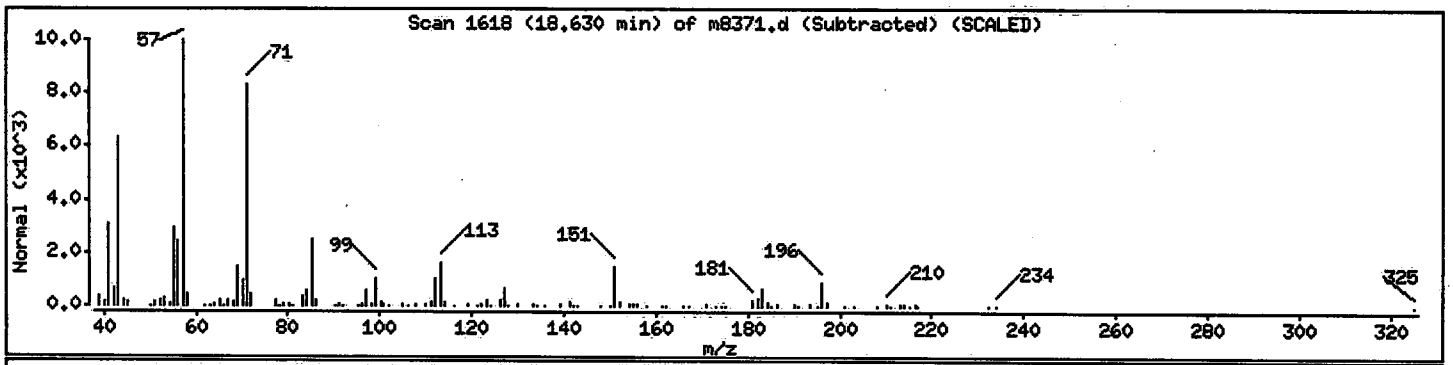
Volume Injected (uL): 2.0

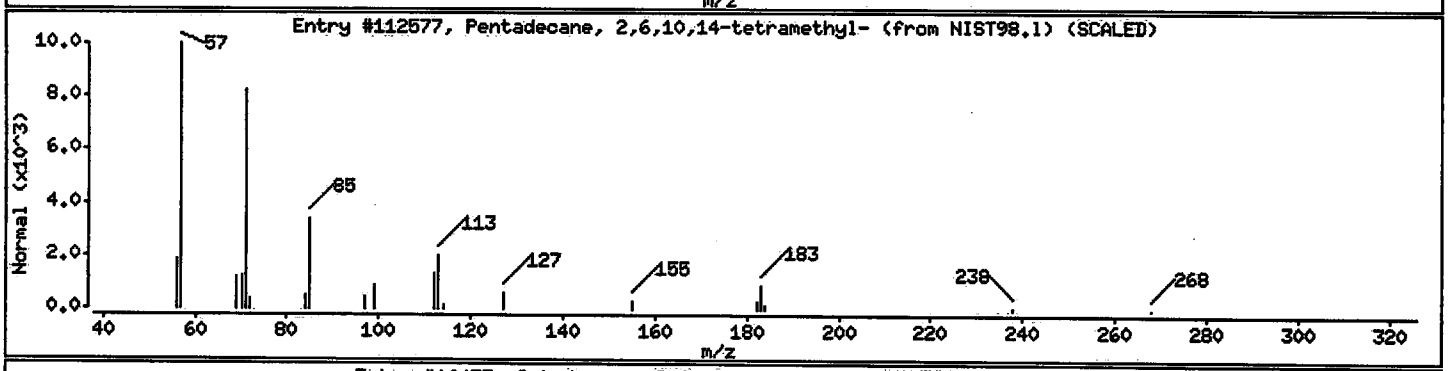
Operator: dce

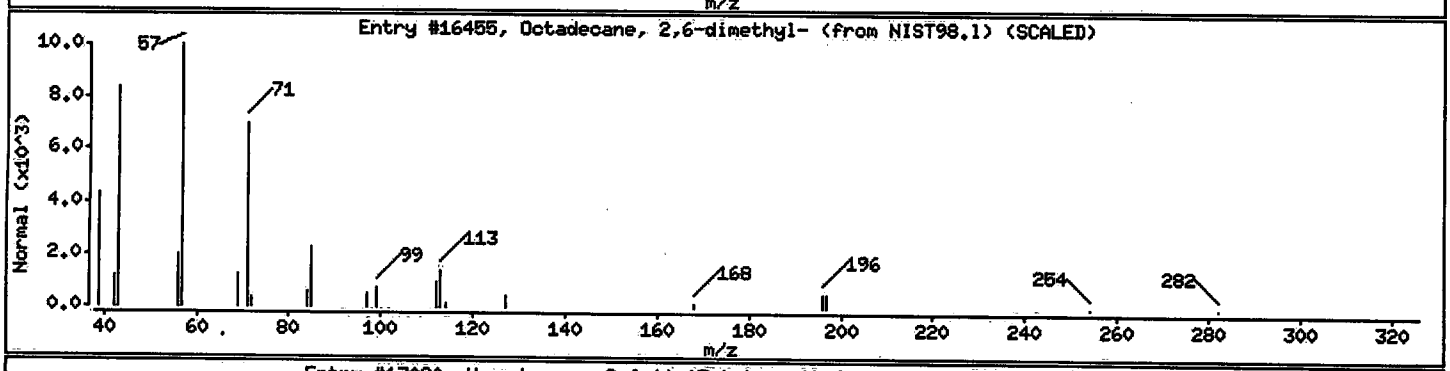
Column phase: ZB-5

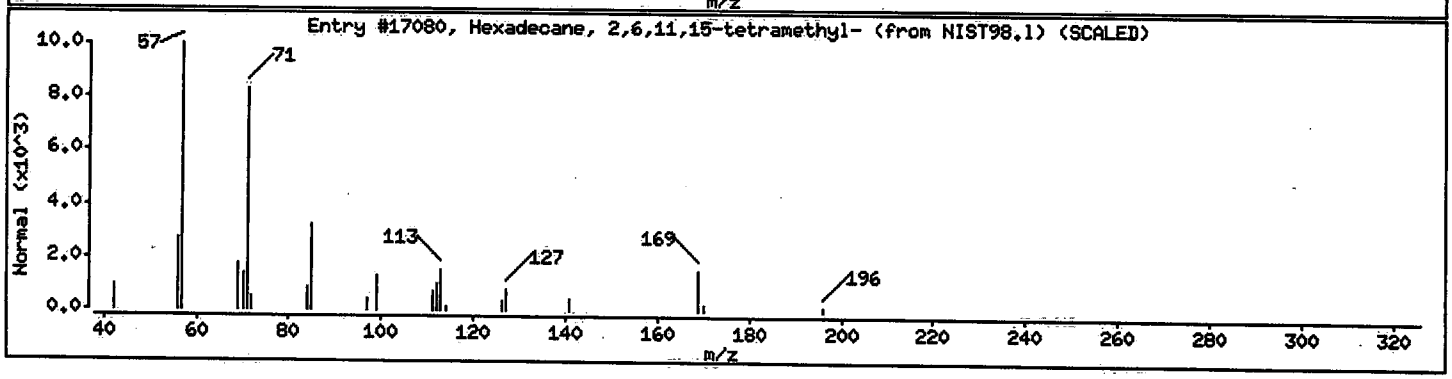
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	NIST98.1	112577	87	C19H40	268
Octadecane, 2,6-dimethyl-	75163-97-2	NIST98.1	16455	86	C20H42	282
Hexadecane, 2,6,11,15-tetramethyl-	504-44-9	NIST98.1	17080	86	C20H42	282









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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

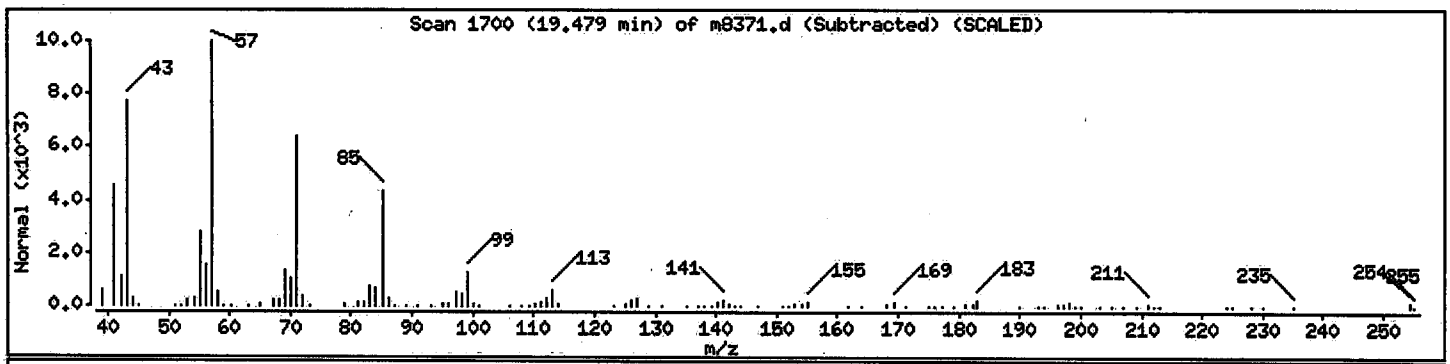
Volume Injected (uL): 2.0

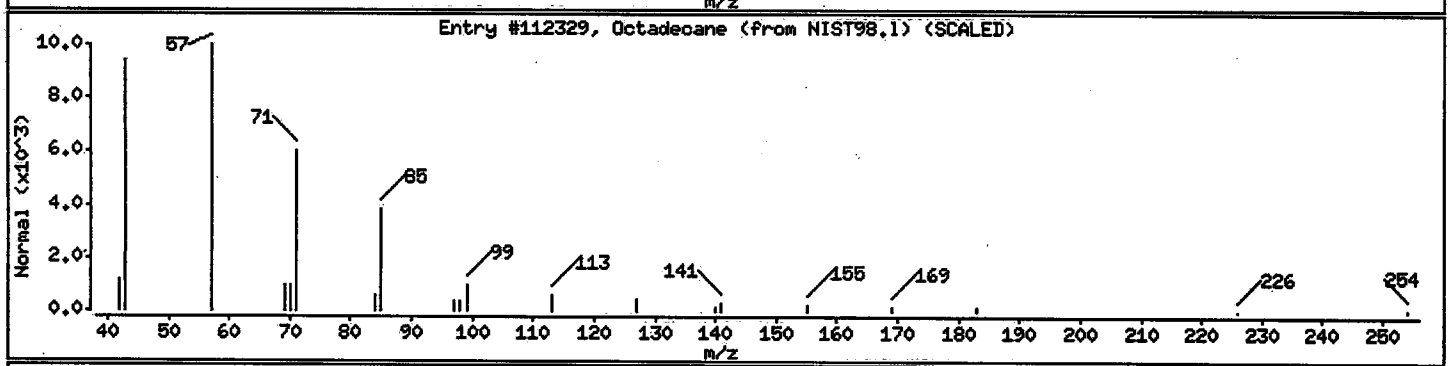
Operator: dce

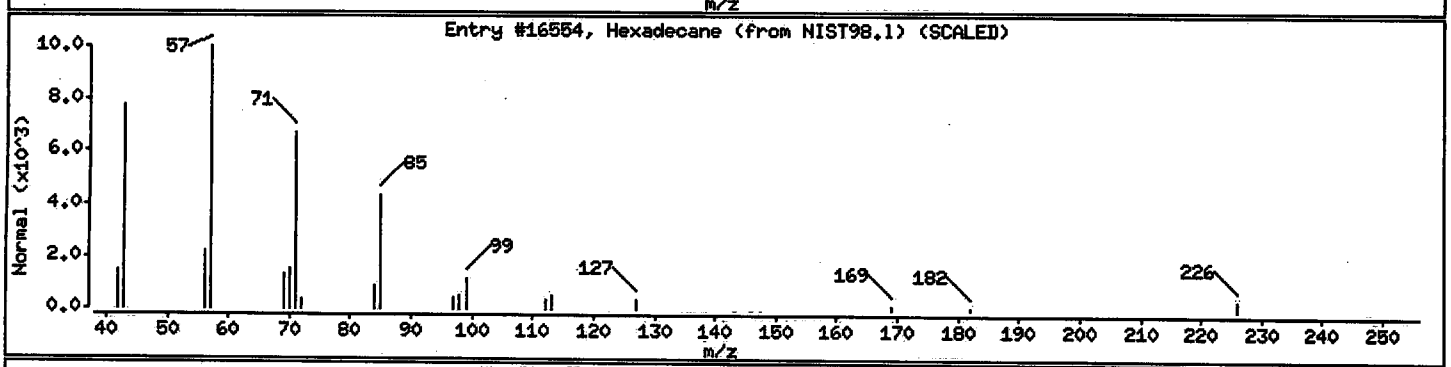
Column phase: ZB-5

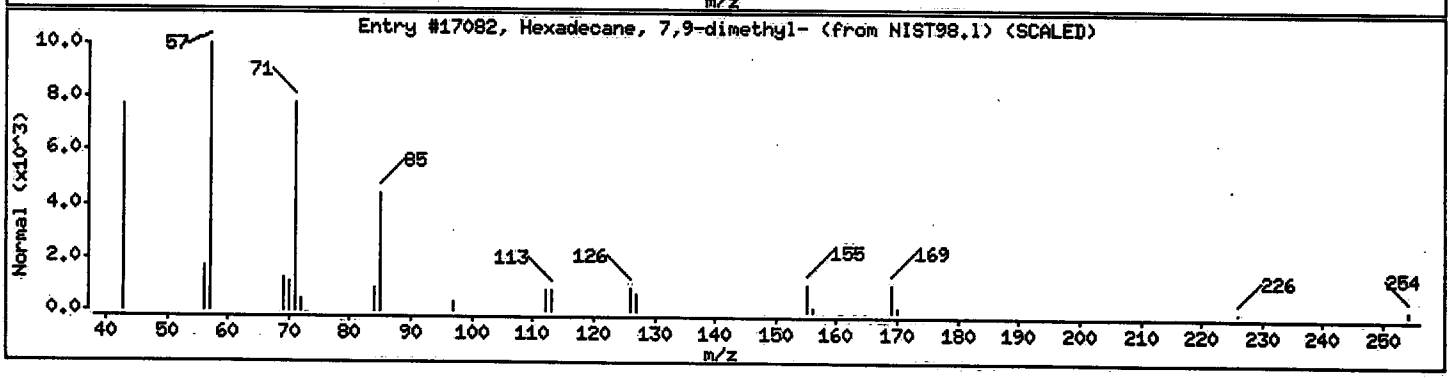
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octadecane	593-45-3	NIST98.1	112329	93	C18H38	254
Hexadecane	544-76-3	NIST98.1	16554	91	C16H34	226
Hexadecane, 7,9-dimethyl-	21164-95-4	NIST98.1	17082	91	C18H38	254









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

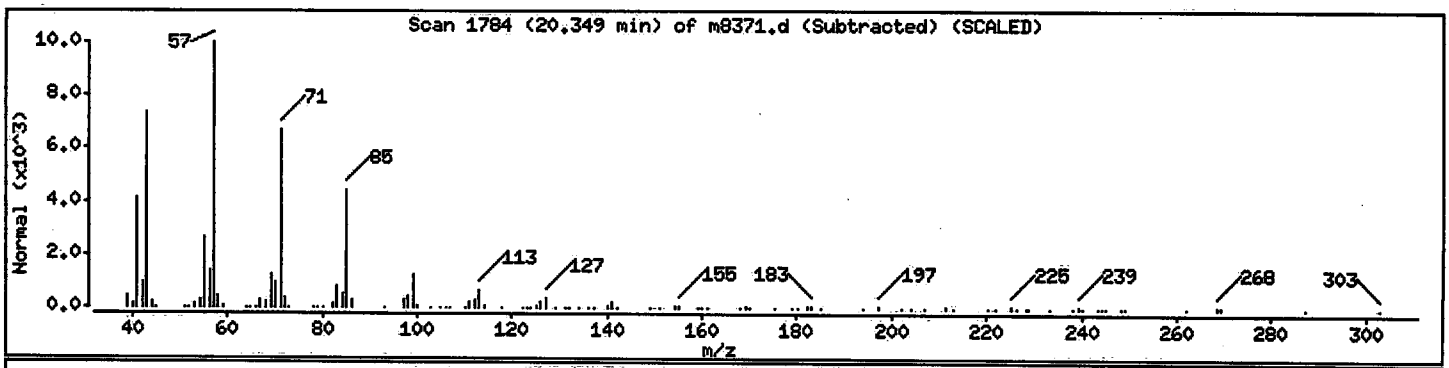
Volume Injected (uL): 2.0

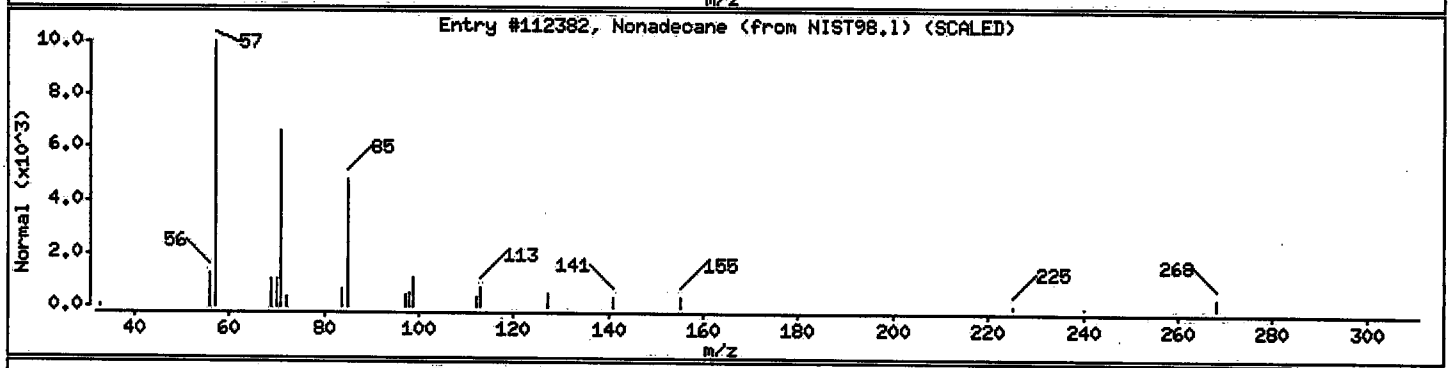
Operator: dce

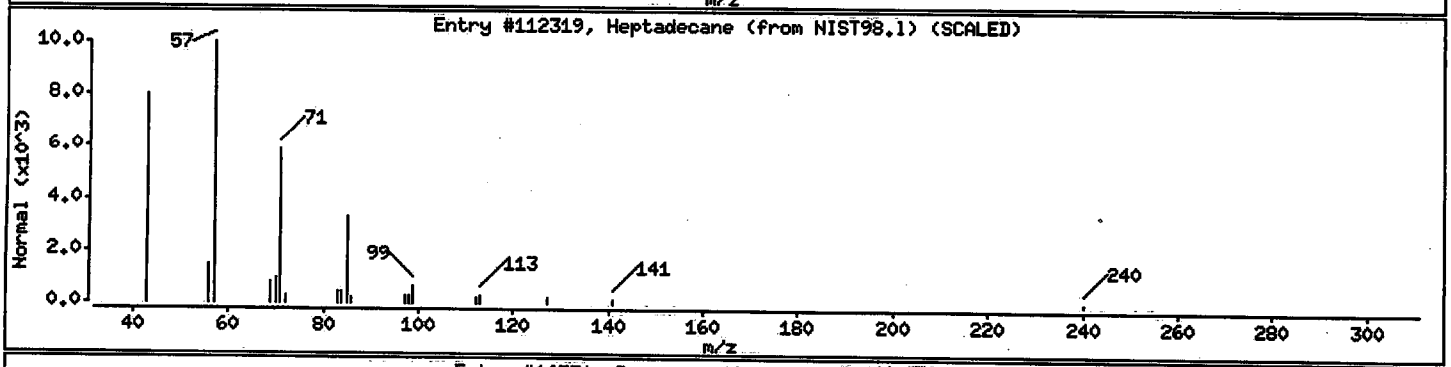
Column phase: ZB-5

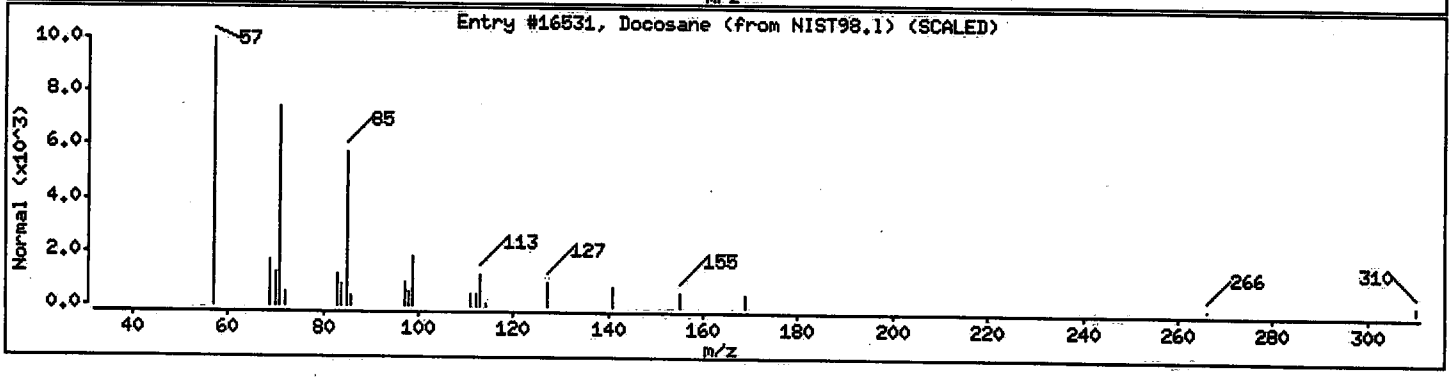
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonadecane	629-92-5	NIST98.1	112382	97	C19H40	268
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Docosane	629-97-0	NIST98.1	16531	90	C22H46	310









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

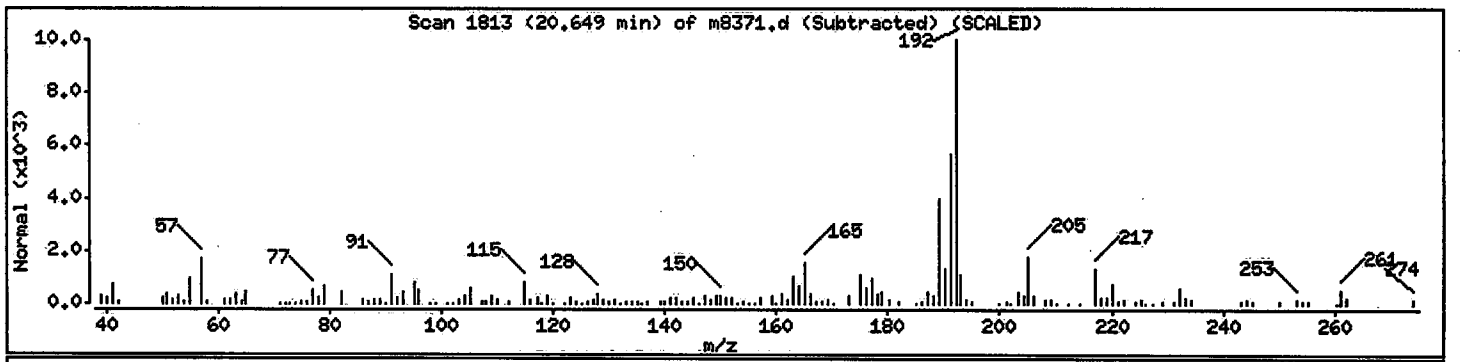
Volume Injected (uL): 2.0

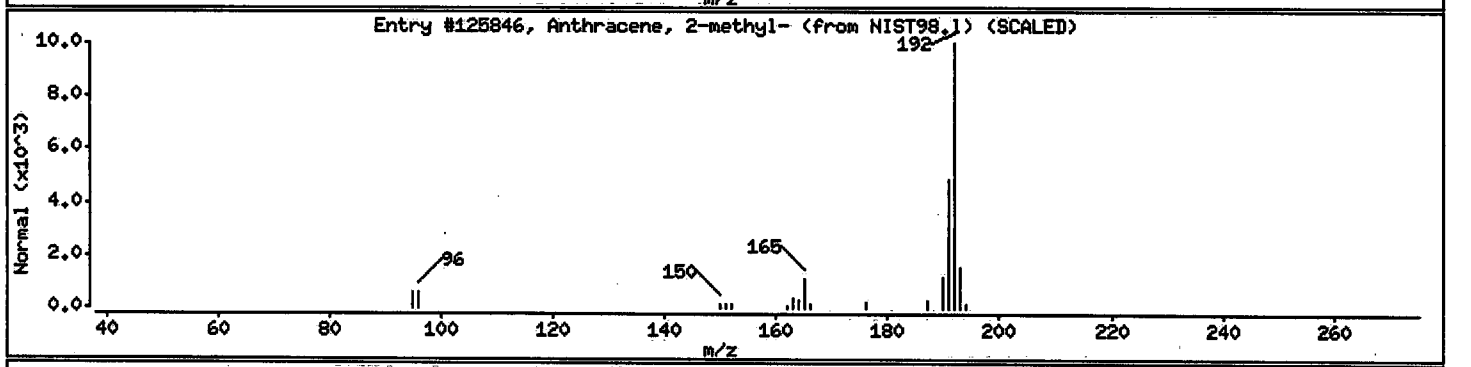
Operator: dce

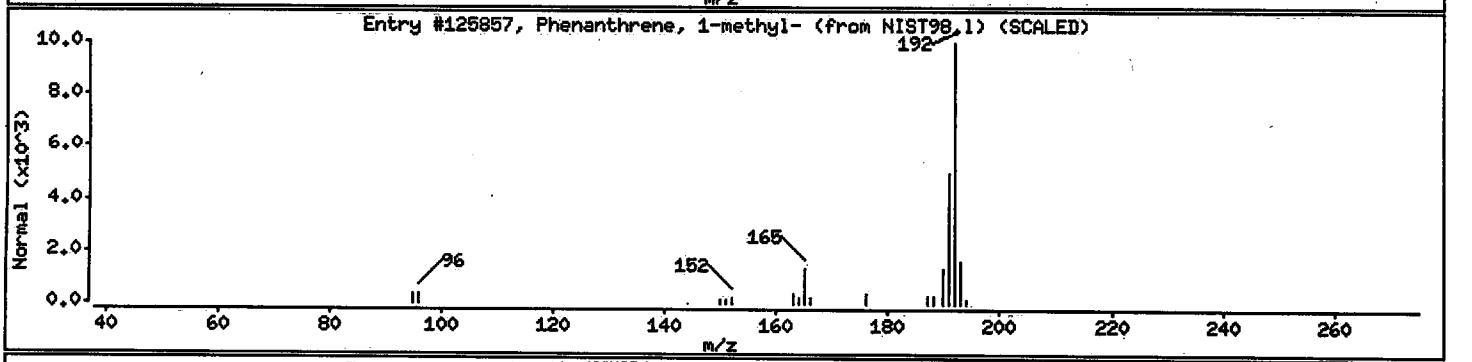
Column phase: ZB-5

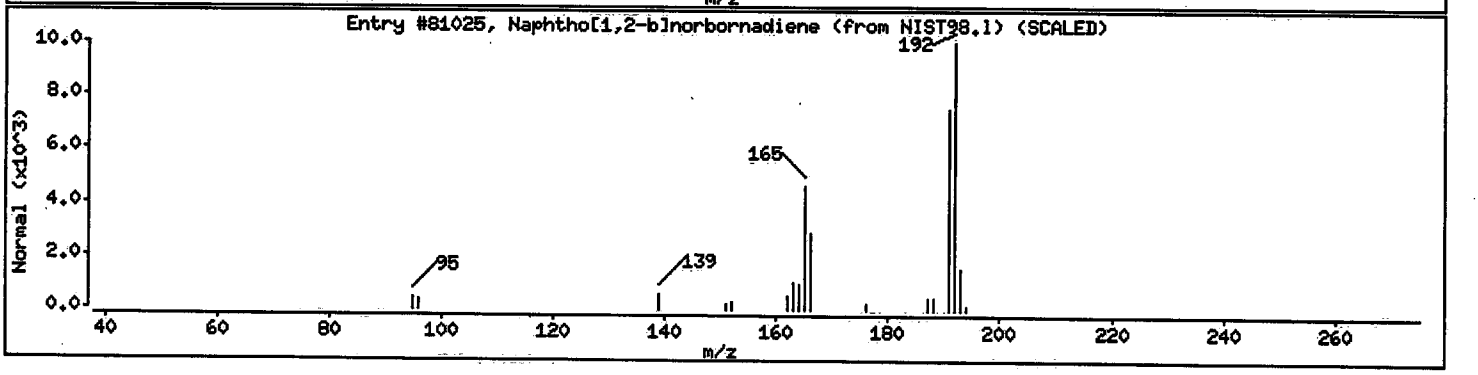
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Anthracene, 2-methyl-	613-12-7	NIST98.1	125846	93	C15H12	192
Phenanthrene, 1-methyl-	832-69-9	NIST98.1	125857	78	C15H12	192
Naphtho[1,2-b]norbornadiene	1000210-14-8	NIST98.1	81025	78	C15H12	192









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

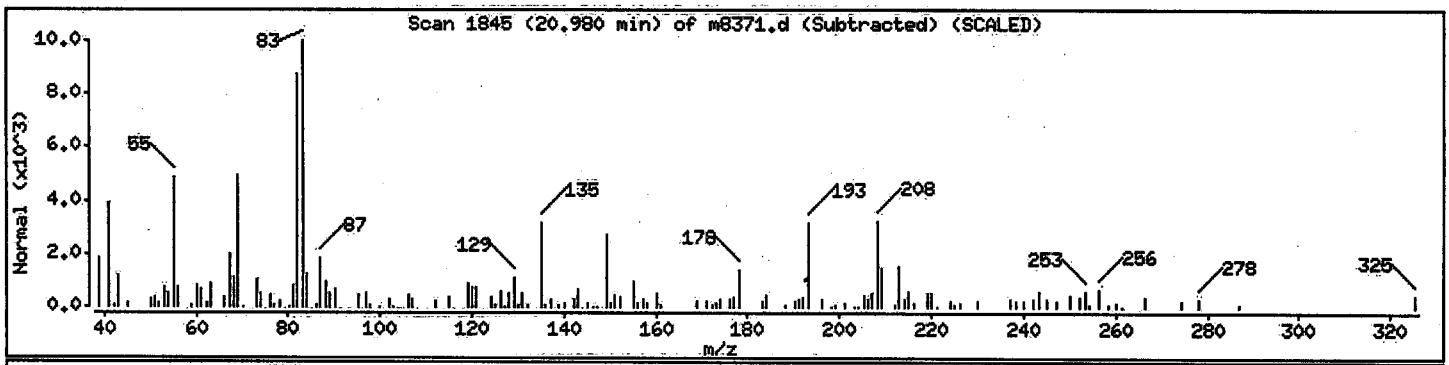
Volume Injected (uL): 2.0

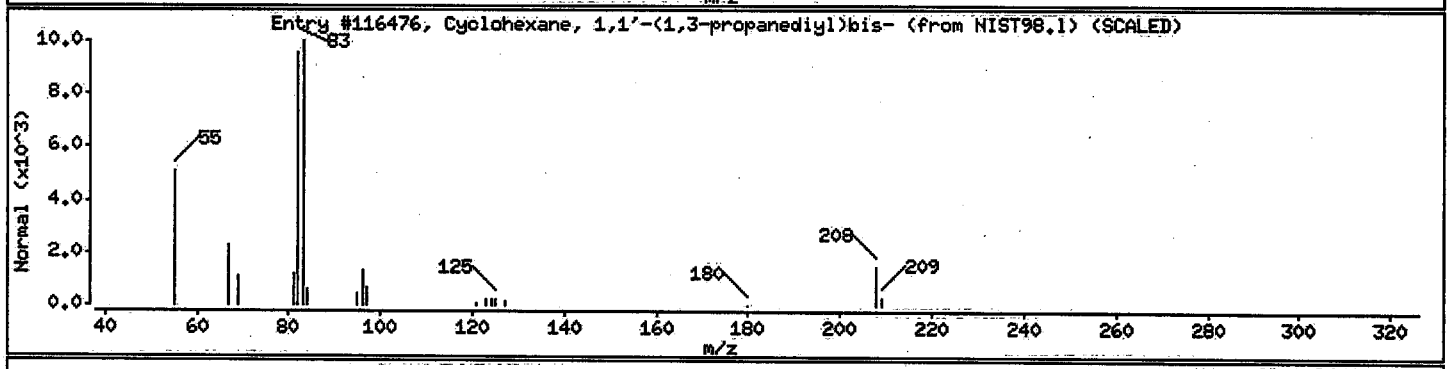
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,1'-(1,3-propanediyl)bis-	3178-24-3	NIST98.1	116476	58	C15H28	208





Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

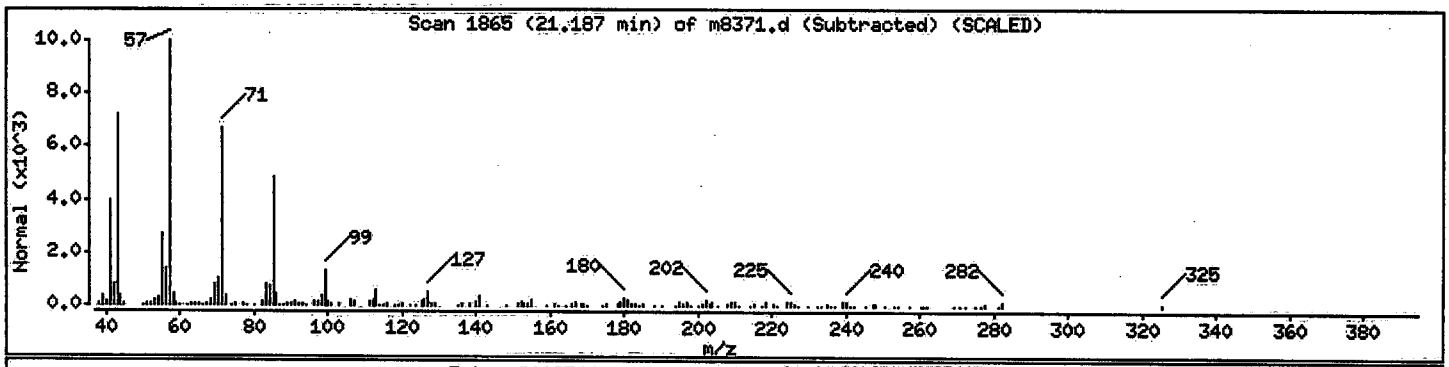
Volume Injected (uL): 2.0

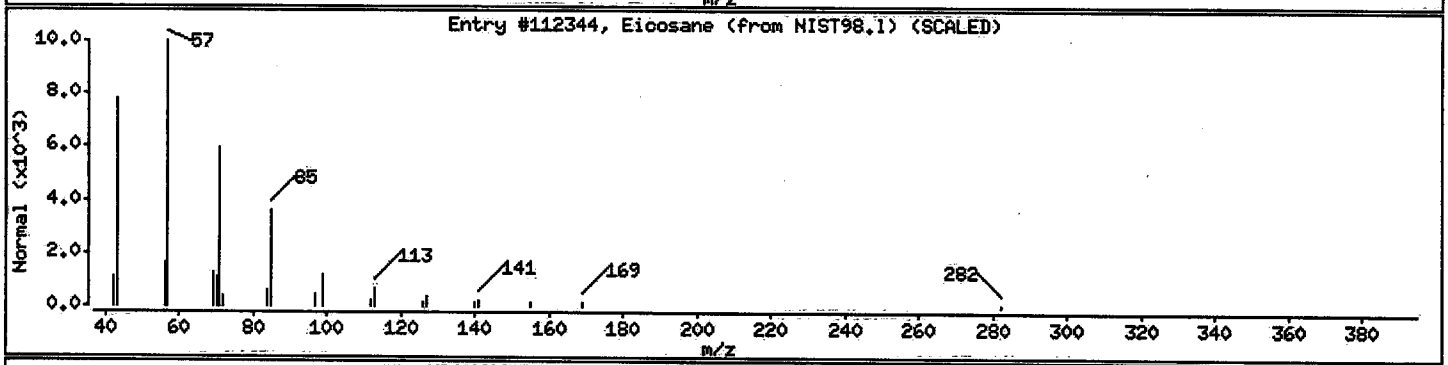
Operator: dce

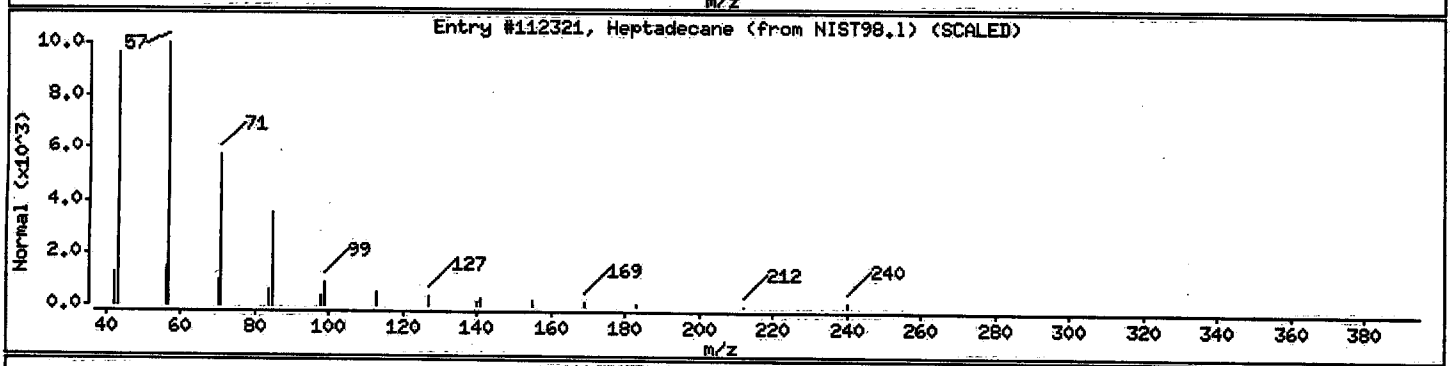
Column phase: ZB-5

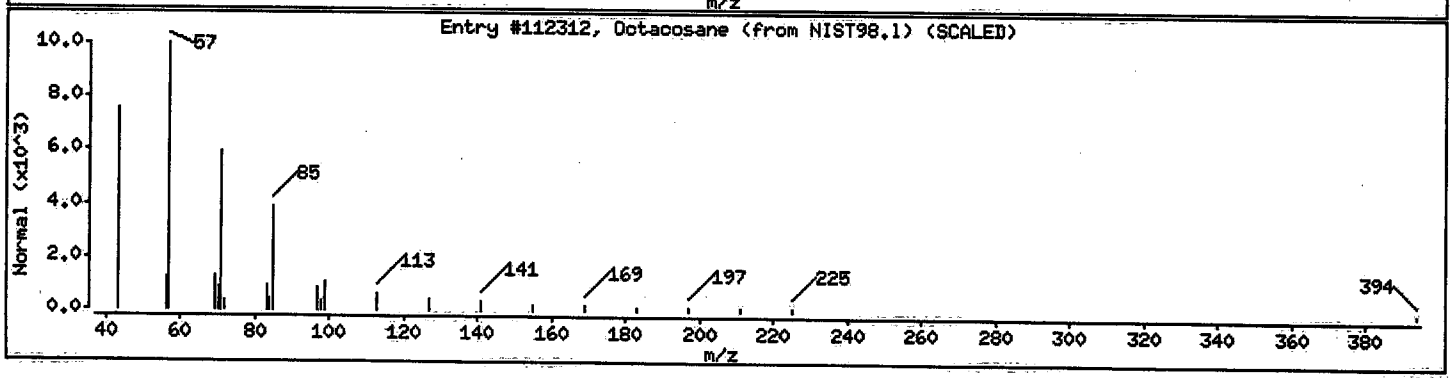
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST98.1	112344	93	C20H42	282
Heptadecane	629-78-7	NIST98.1	112321	90	C17H36	240
Octacosane	630-02-4	NIST98.1	112312	87	C28H58	394









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

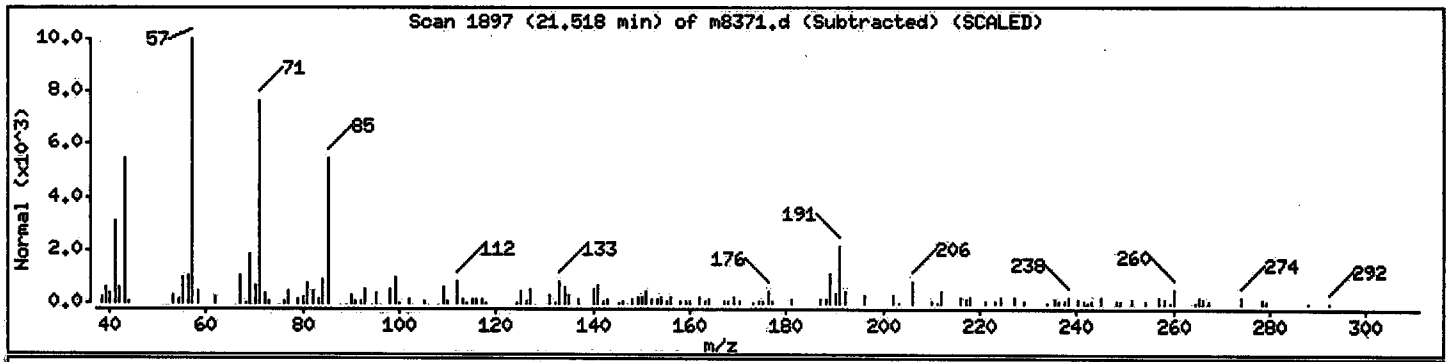
Volume Injected (uL): 2.0

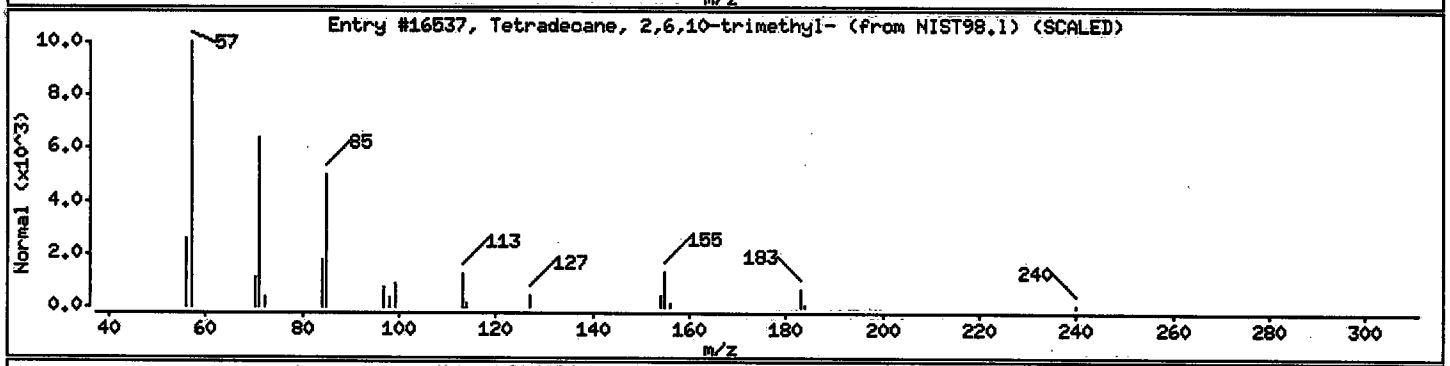
Operator: dce

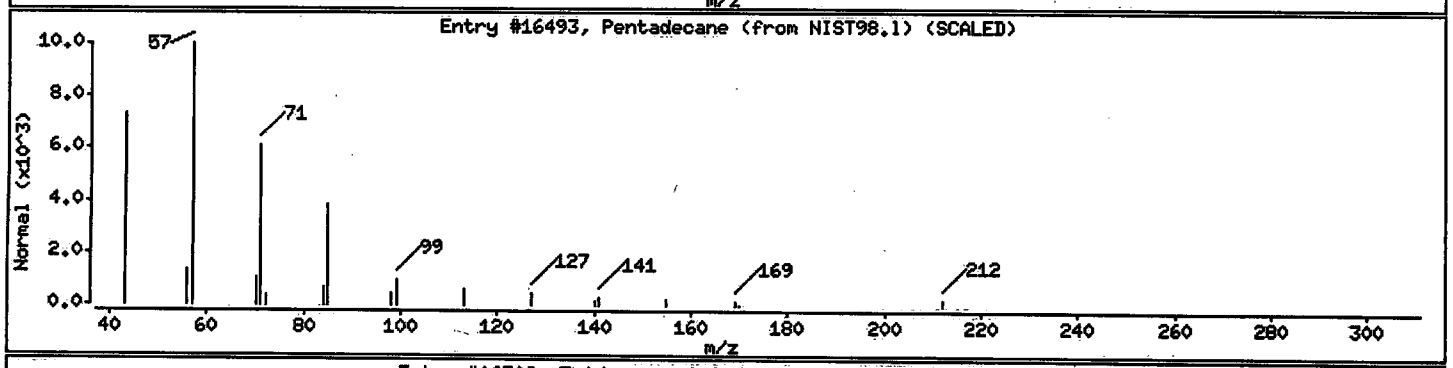
Column phase: ZB-5

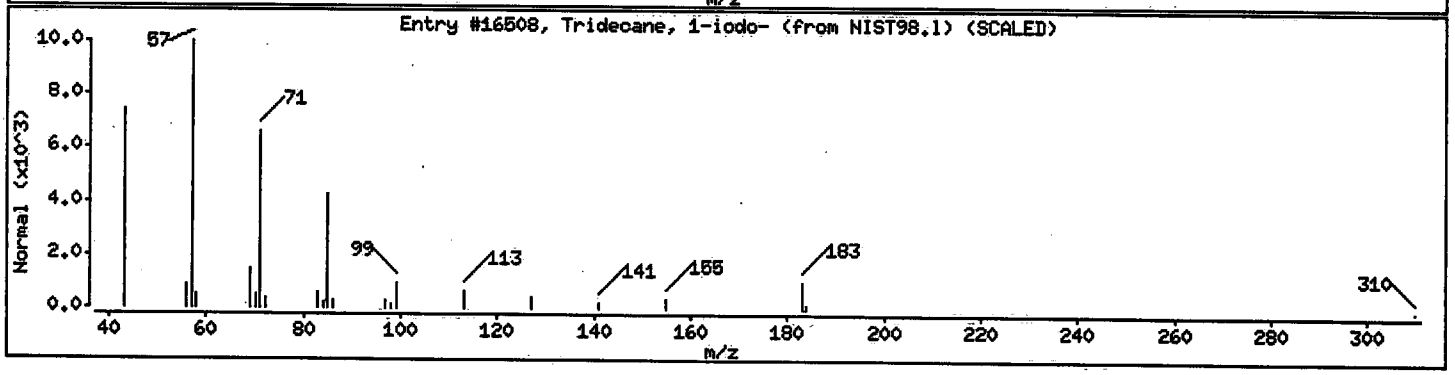
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetradecane, 2,6,10-trimethyl-	14905-56-7	NIST98.1	16537	68	C17H36	240
Pentadecane	629-62-9	NIST98.1	16493	68	C15H32	212
Tridecane, 1-iodo-	35599-77-0	NIST98.1	16508	59	C13H27I	310









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

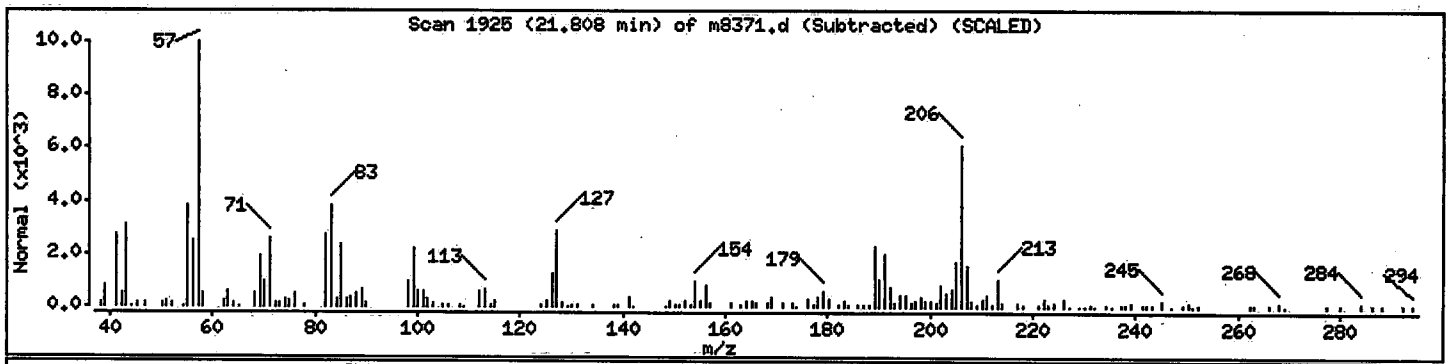
Volume Injected (uL): 2.0

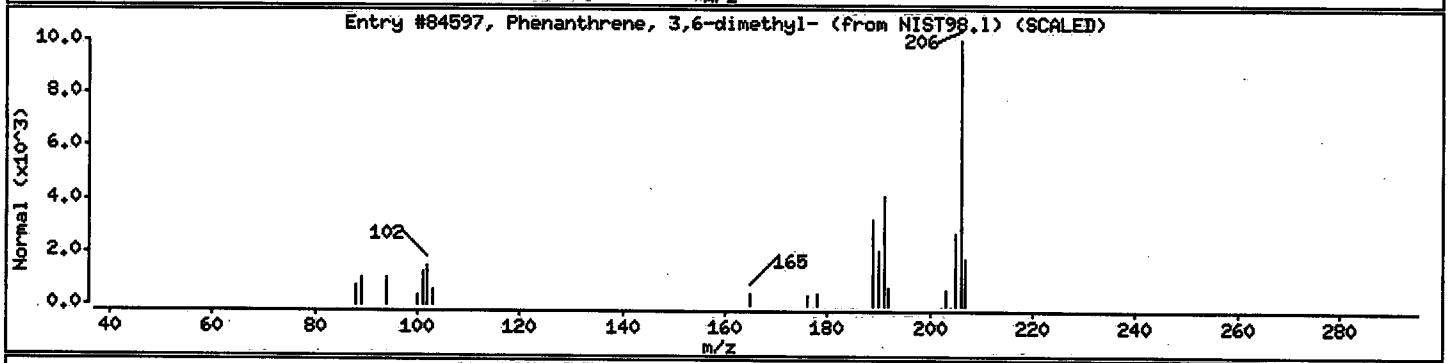
Operator: dce

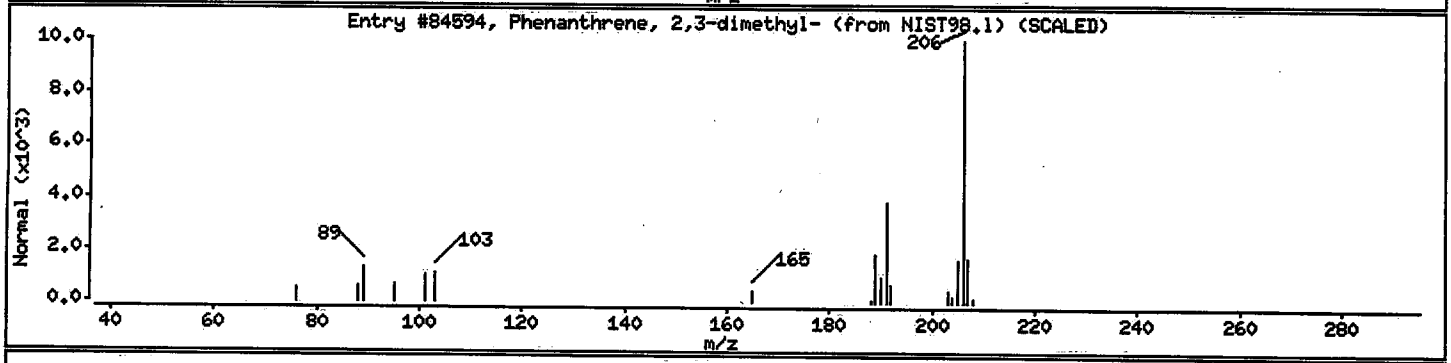
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenanthrene, 3,6-dimethyl-	1576-67-6	NIST98.1	84597	66	C16H14	206
Phenanthrene, 2,3-dimethyl-	3674-65-5	NIST98.1	84594	56	C16H14	206







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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

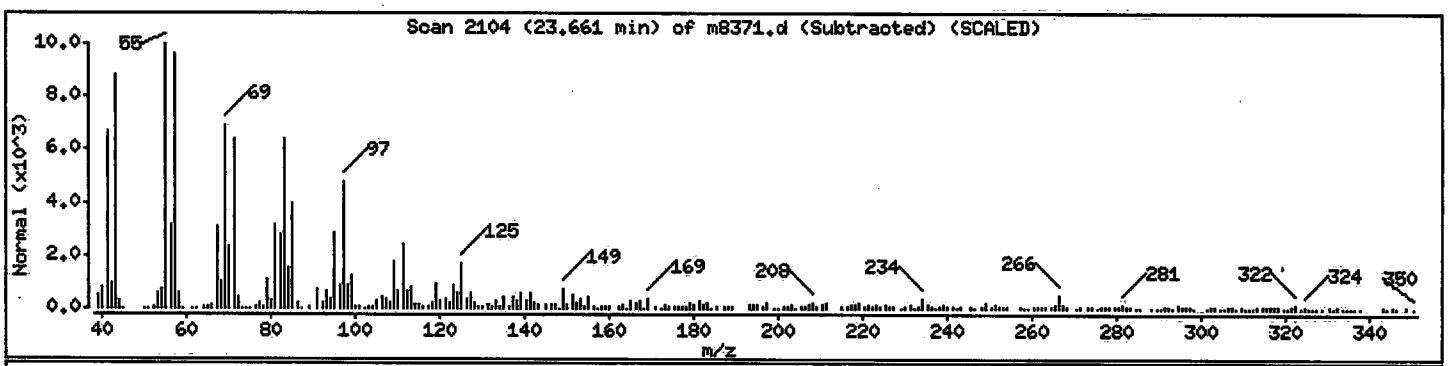
Volume Injected (uL): 2.0

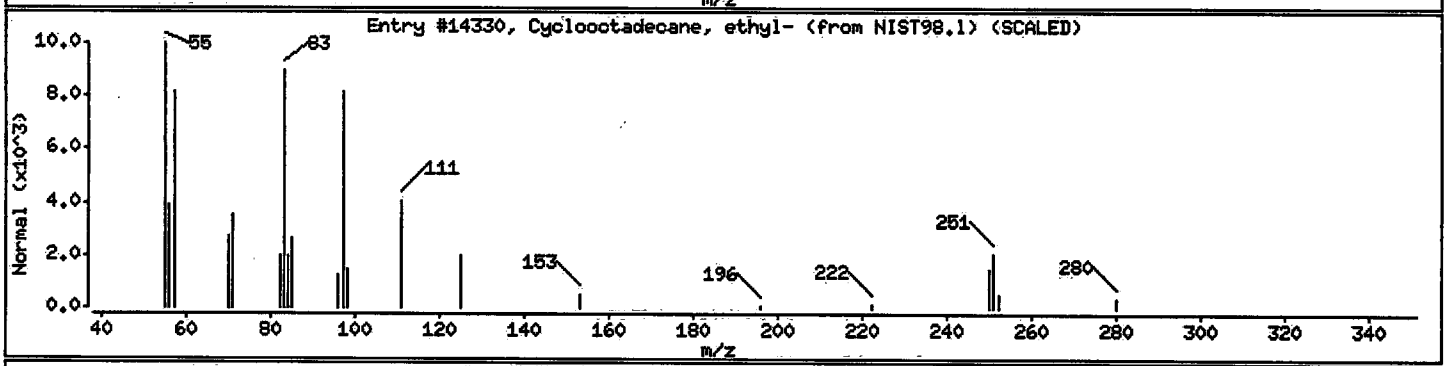
Operator: dce

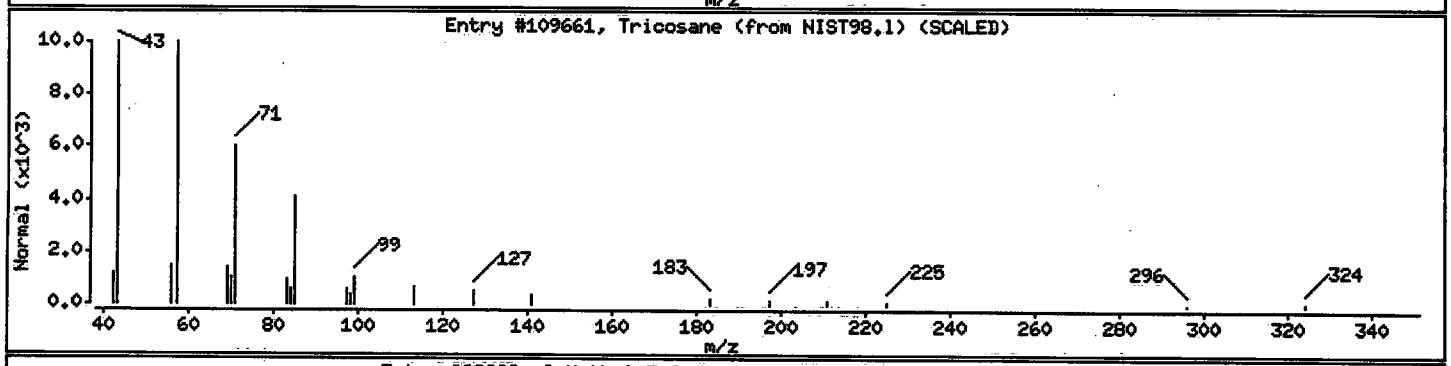
Column phase: ZB-5

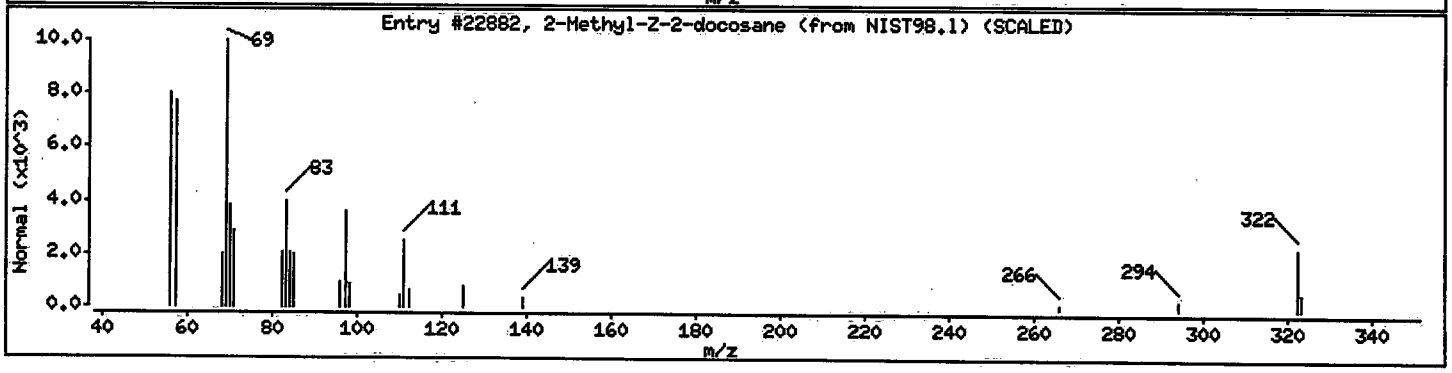
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclooctadecane, ethyl-	1000151-22-5	NIST98.1	14330	89	C20H40	280
Tricosane	638-67-5	NIST98.1	109661	86	C23H48	324
2-Methyl-Z-2-docosane	1000131-16-9	NIST98.1	22882	74	C23H46	322









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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

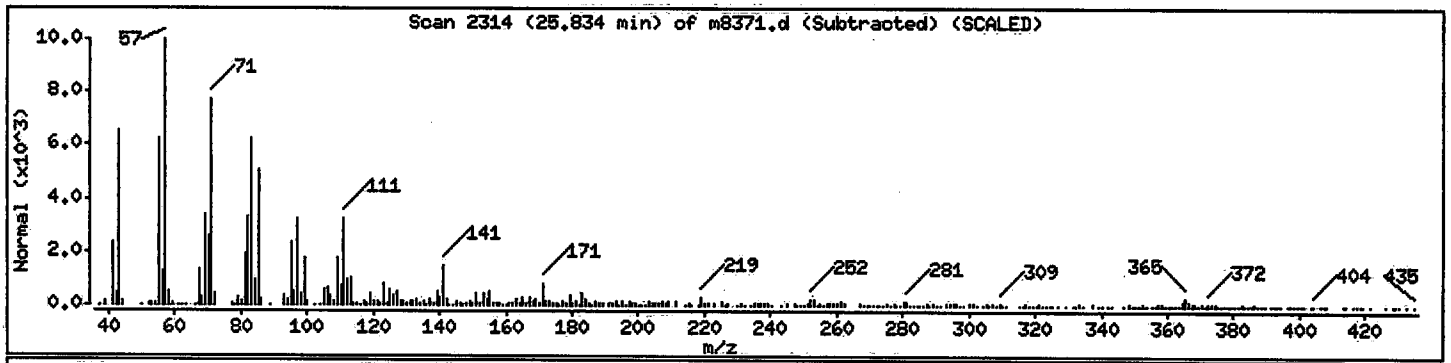
Volume Injected (uL): 2.0

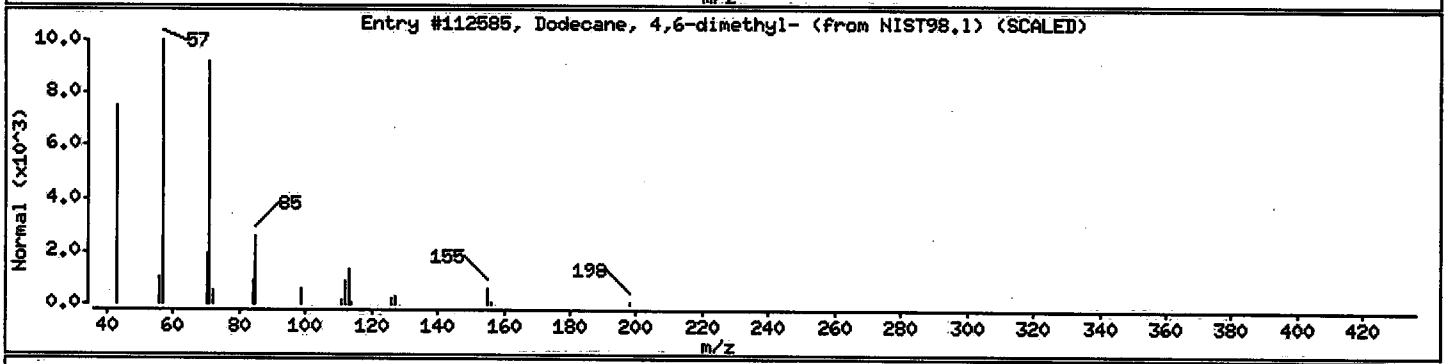
Operator: dce

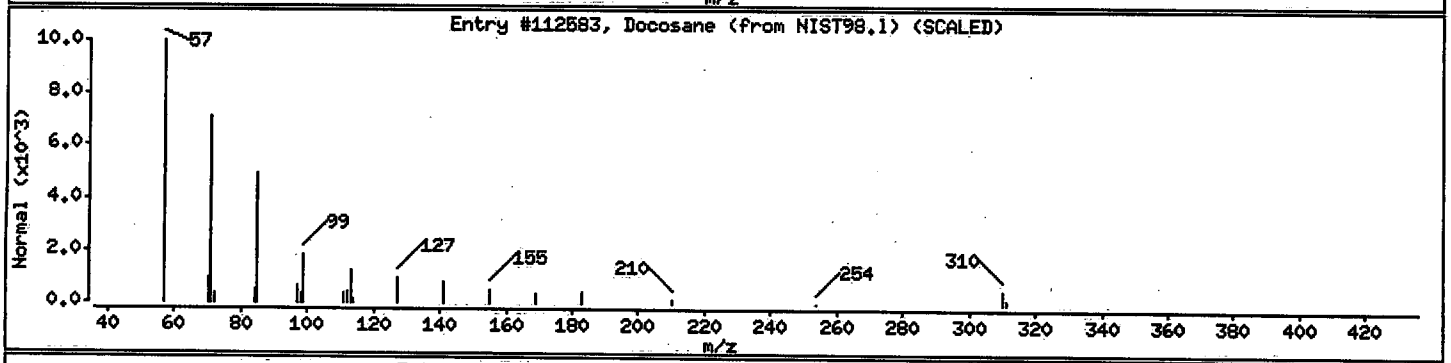
Column phase: ZB-5

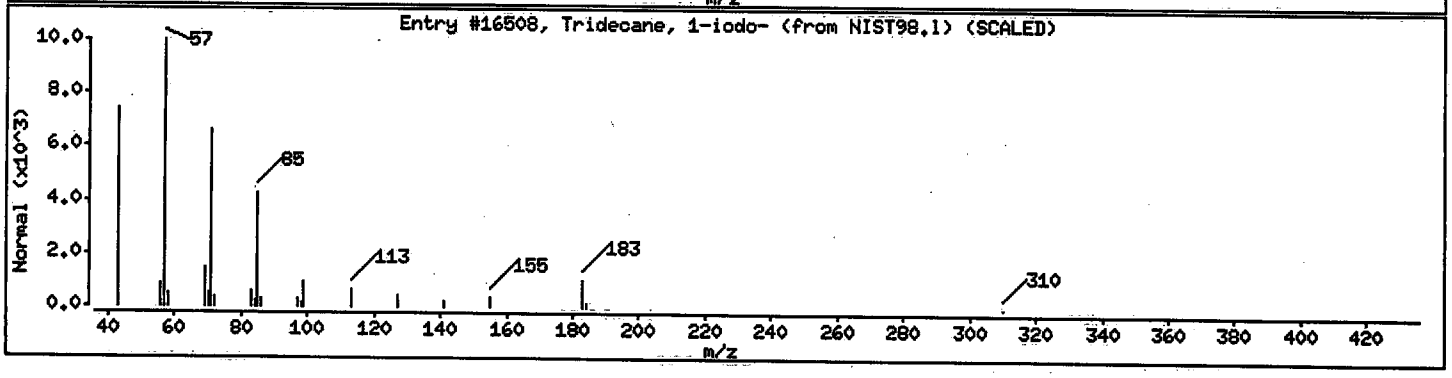
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane, 4,6-dimethyl-	61141-72-8	NIST98.1	112585	60	C14H30	198
Docosane	629-97-0	NIST98.1	112583	55	C22H46	310
Tridecane, 1-iodo-	35599-77-0	NIST98.1	16508	50	C13H27I	310









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Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

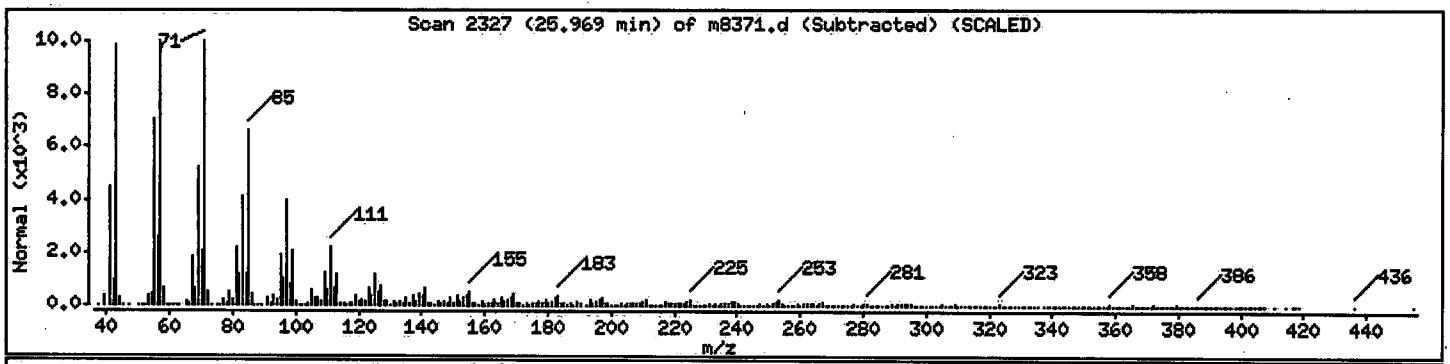
Volume Injected (uL): 2.0

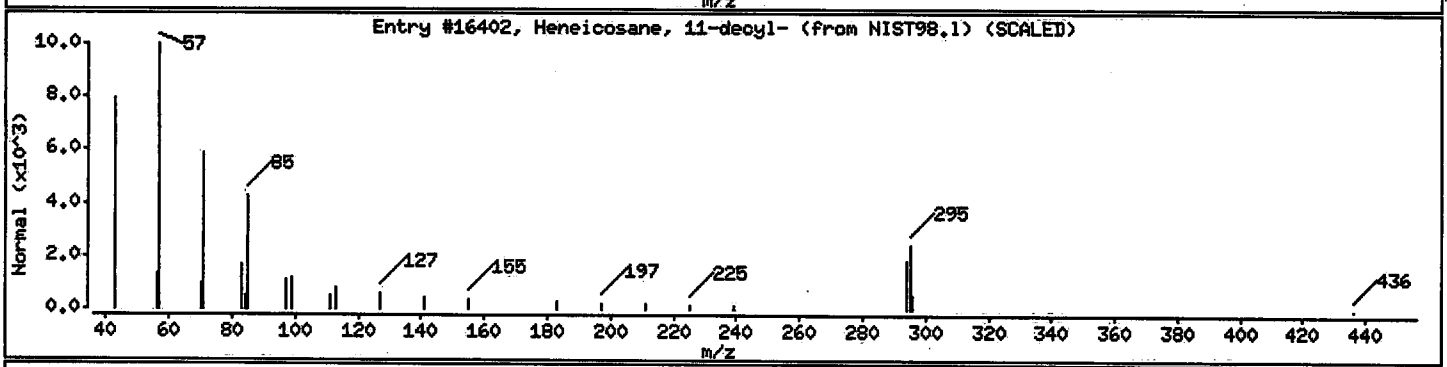
Operator: dce

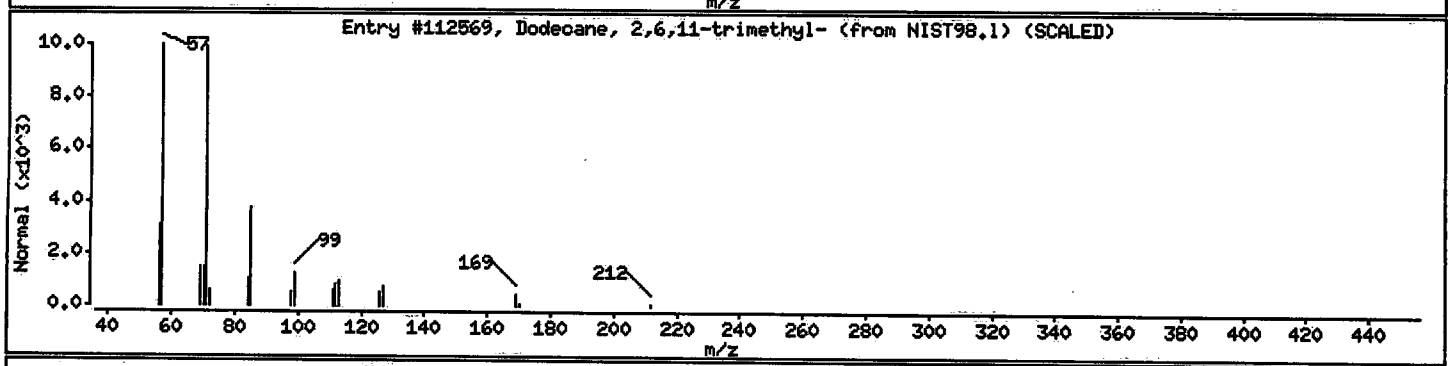
Column phase: ZB-5

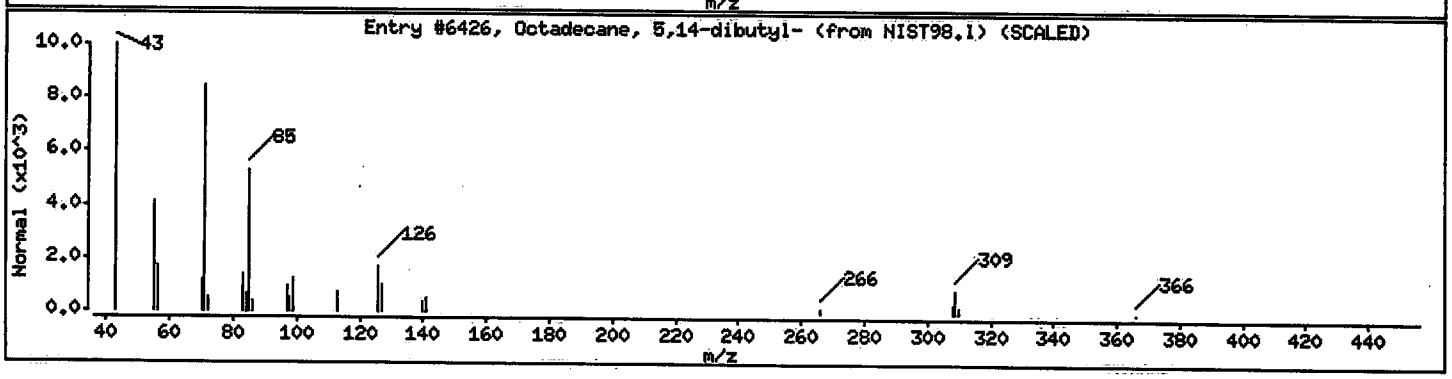
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane, 11-decyl-	55320-06-4	NIST98.1	16402	84	C31H64	437
Dodecane, 2,6,11-trimethyl-	31295-56-4	NIST98.1	112569	83	C15H32	212
Octadecane, 5,14-dibutyl-	55282-13-8	NIST98.1	6426	70	C26H54	366









Data File: /var/chem/molly.i/0307184m1r.b/m8371.d

Date : 18-JUL-2003 20:25

Client ID:

Instrument: molly.i

Sample Info: 0307090-04C

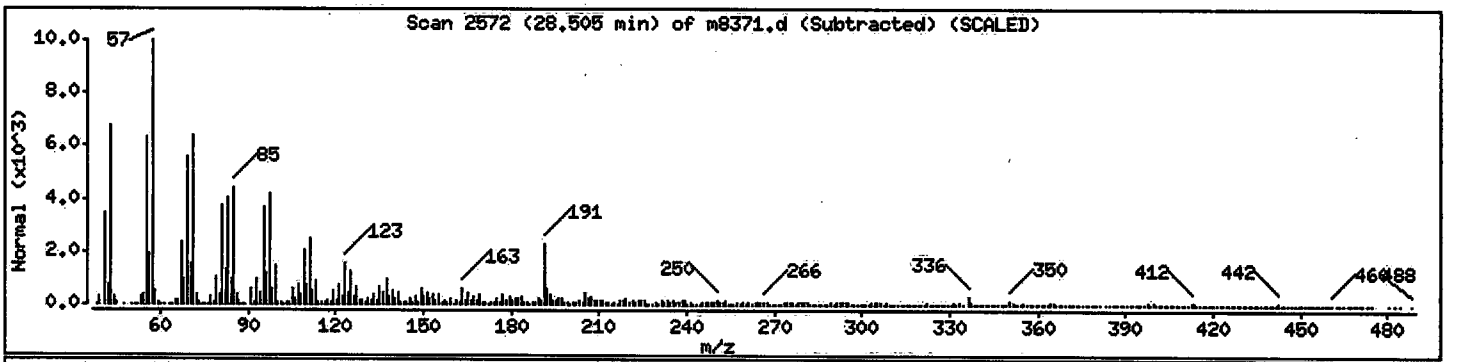
Volume Injected (uL): 2.0

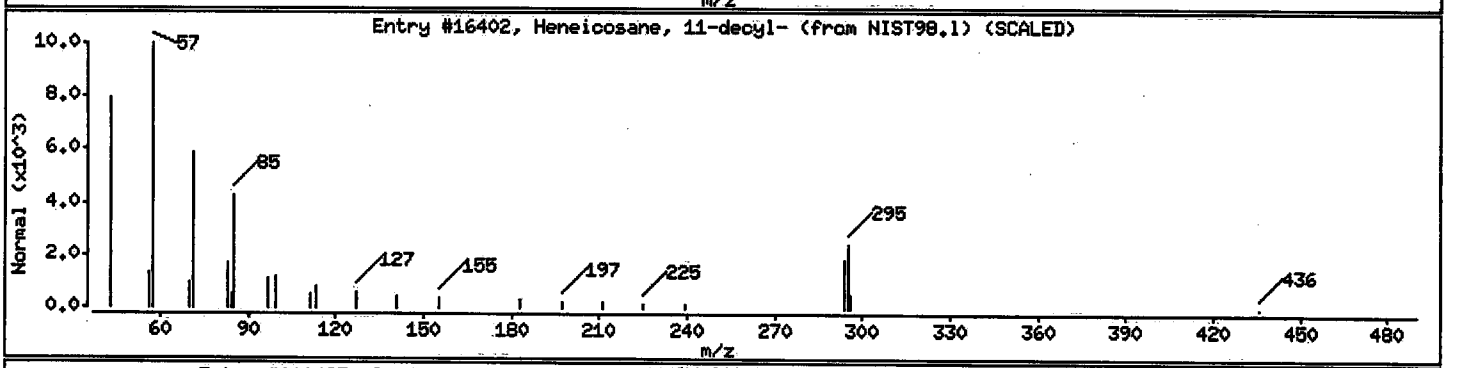
Operator: dce

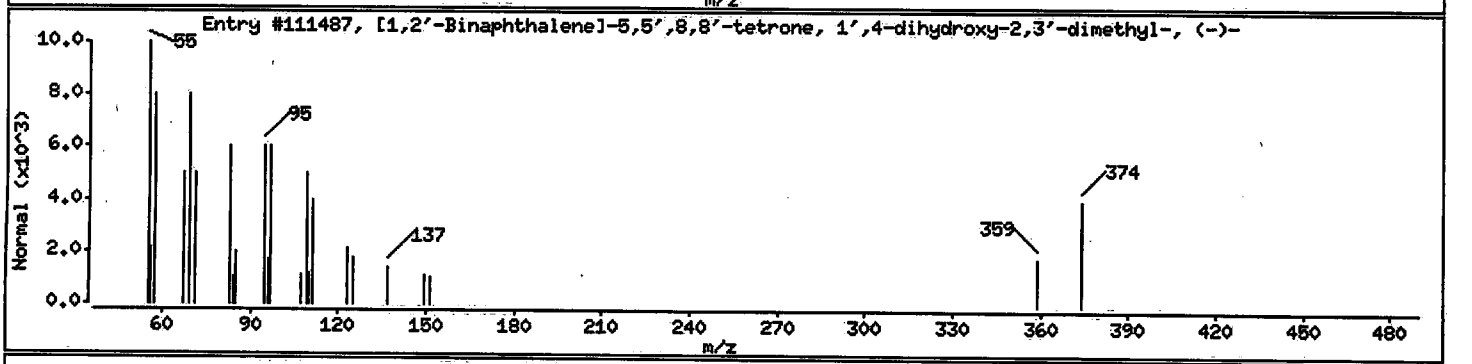
Column phase: ZB-5

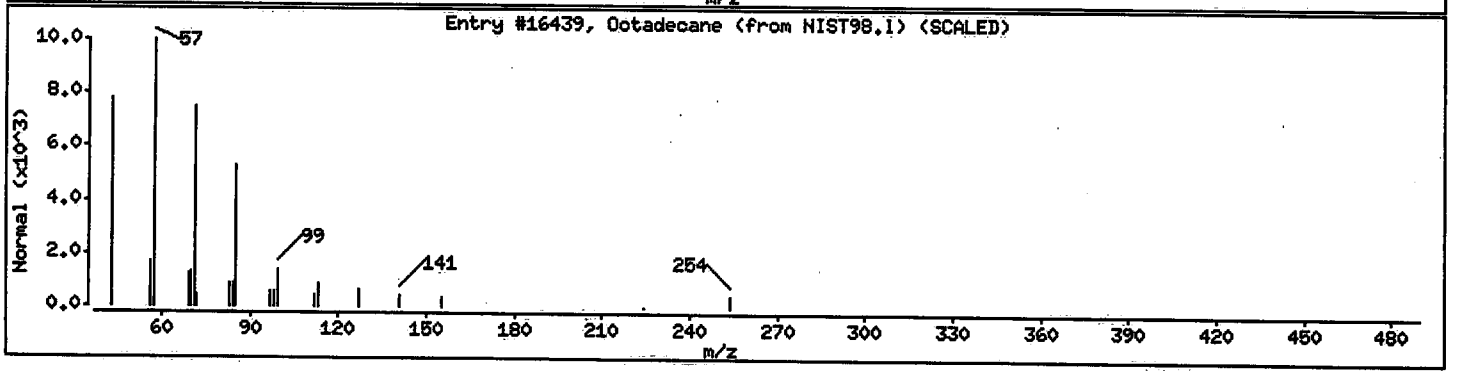
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane, 11-decyl-	55320-06-4	NIST98.1	16402	93	C31H64	437
[1,2'-Binaphthalene]-5,5',8,8'-tetrone,	20175-84-2	NIST98.1	111487	78	C22H1406	374
Octadecane	593-45-3	NIST98.1	16439	72	C18H38	254









Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8371.d
Lab Smp Id: 0307090-04C
Inj Date : 18-JUL-2003 20:25
Operator : dce Inst ID: molly.i
Smp Info : 0307090-04C
Misc Info : 0307184m1r;comx40;{},1_8270C_3520C_TCL_W,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 21-Jul-2003 10:54 kkuhrt Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	1020.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 30 Naphthalene-d8	12.772	1340242	40.000
* 47 Acenaphthene-d10	16.571	5999227	40.000
* 65 Phenanthrene-d10	19.541	5084975	40.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Undecane					CAS #: 1120-21-4		
11.375	2197730	65.5920321	193	87	NIST98.1	112395	30

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, (1-methyl-1-propenyl)-, (E)-					CAS #: 768-00-3		
12.275	2331976	69.5986519	205	87	NIST98.1	52564	30
Tetradecane					CAS #: 629-59-4		
12.969	3457231	103.182270	303	83	NIST98.1	112357	30
Tetradecane					CAS #: 629-59-4		
14.304	3101520	92.5659719	272	90	NIST98.1	112357	30
Naphthalene, 1,2,3,4-tetrahydro-1,4-dime					CAS #: 4175-54-6		
14.656	1963400	58.5983546	172	78	NIST98.1	120656	30
Ethyl 3-cyclohexenecarboxylate					CAS #: 15111-56-5		
14.873	2647920	17.6550754	51.9	72	NIST98.1	116167	47
Tetradecane					CAS #: 629-59-4		
15.494	3037608	20.2533261	59.6	97	NIST98.1	112356	47
Hexadecane					CAS #: 544-76-3		
17.616	4211815	28.0823825	82.6	95	NIST98.1	112406	47
Cyclohexene, 3-(2-methylpropyl)-					CAS #: 4104-56-7		
17.875	1995932	13.3079257	39.1	42	WILEY.1	9592	47
Heptadecane					CAS #: 629-78-7		
18.579	3608222	28.3833966	83.5	98	NIST98.1	112319	65
Pentadecane, 2,6,10,14-tetramethyl-					CAS #: 1921-70-6		
18.630	2573386	20.2430570	59.5	87	NIST98.1	112577	65
Octadecane					CAS #: 593-45-3		
19.479	3463311	27.2434818	80.1	93	NIST98.1	112329	65
Nonadecane					CAS #: 629-92-5		
20.349	4161496	32.7356241	96.3	97	NIST98.1	112382	65
Anthracene, 2-methyl-					CAS #: 613-12-7		
20.649	2668593	20.9919879	61.7	93	NIST98.1	125846	65
Cyclohexane, 1,1'-(1,3-propanediyl)bis-					CAS #: 3178-24-3		
20.980	4536281	35.6837982	105	58	NIST98.1	116476	65
Eicosane					CAS #: 112-95-8		
21.187	7706768	60.6238412	178	93	NIST98.1	112344	65

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Tetradecane, 2,6,10-trimethyl-					CAS #: 14905-56-7		
21.518	5589237	43.9666808	129	68	NIST98.1	16537	65
Phenanthrene, 3,6-dimethyl-					CAS #: 1576-67-6		
21.808	8021992	63.1034861	186	66	NIST98.1	84597	65
Cyclooctadecane, ethyl-					CAS #: 1000151-22-5		
23.661	1.626e+08	1279.02625	3760	89	NIST98.1	14330	65
Dodecane, 4,6-dimethyl-					CAS #: 61141-72-8		
25.834	1.168e+09	9191.16499	27000	60	NIST98.1	112585	65
Heneicosane, 11-decyl-					CAS #: 55320-06-4		
25.969	6.552e+09	51540.8007	152000	84	NIST98.1	16402	65
Heneicosane, 11-decyl-					CAS #: 55320-06-4		
28.505	1.142e+09	8980.03236	26400	93	NIST98.1	16402	65

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

Job Number: 0307090 Initial Cal ID: COMX40

Batch Number: 200306304m1 Instrument: molly

Column ID: ZB-5 Fraction: Semi-VOA

Level	Calibration file	Injection Date	Injection Time
1	m8113	30-JUN-2003	09:57
2	m8111	30-JUN-2003	08:39
3	m8115	30-JUN-2003	11:16
4	m8116	30-JUN-2003	11:56
5	m8114	30-JUN-2003	10:36
6	m8112	30-JUN-2003	09:17

Compound	20 Level 1	50 Level 2	60 Level 3	80 Level 4	120 Level 5	160 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Pyridine	1.39400	1.46930	1.46132	1.49340	1.56321	1.56993	AVRG		1.49186		4.46705
2 N-Nitrosodimethylamine	0.98322	1.02183	1.03513	1.05184	1.05764	1.06712	AVRG		1.03613		2.95122
4 Benzaldehyde	1.40273	1.38139	1.40171	1.05074	0.97441	0.96464	AVRG		1.19594		18.43937
5 Aniline	2.44333	2.45180	2.55648	2.56699	2.59925	2.57406	AVRG		2.53199		2.64411
7 Phenol	1.95544	1.94639	2.05109	2.09741	2.10076	2.11018	AVRG		2.04354		3.65356
8 Bis(2-chloroethyl)ether	1.58189	1.53978	1.59310	1.66019	1.66312	1.63332	AVRG		1.61190		3.02270
9 2-Chlorophenol	1.36054	1.36354	1.41732	1.43615	1.43247	1.45353	AVRG		1.41059		2.78927
10 1,3-Dichlorobenzene	1.53295	1.54804	1.58873	1.58558	1.60298	1.62718	AVRG		1.58091		2.20788
12 1,4-Dichlorobenzene	1.61619	1.53176	1.61196	1.62575	1.65166	1.63556	AVRG		1.61215		2.59829
13 Benzyl alcohol	1.00714	1.03315	1.04769	1.08714	1.11141	1.14040	AVRG		1.07116		4.71699
14 1,2-Dichlorobenzene	1.54939	1.53047	1.51768	1.59915	1.56373	1.55203	AVRG		1.55207		1.82432
15 2-Methylphenol	1.34977	1.38669	1.44014	1.47669	1.46760	1.50572	AVRG		1.43777		4.10077
16 2,2'-Oxybis(1-chloropropane)	2.13673	2.17647	2.19887	2.23162	2.30192	2.28146	AVRG		2.22118		2.83957
17 Acetophenone	2.37394	2.31342	2.37964	2.46327	2.49914	2.50398	AVRG		2.42223		3.21218

M = Summary Compound, $ = Surrogate Compound

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Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

Job Number: 0307090 Initial Cal ID: COMX40

Batch Number: 200306304m1 Instrument: molly

Column ID: ZB-5 Fraction: Semi-VOA

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1	m8113	30-JUN-2003	09:57
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5	m8114	30-JUN-2003	10:36
6	m8112	30-JUN-2003	09:17

Compound	20 Level 1	50 Level 2	60 Level 3	80 Level 4	120 Level 5	160 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
18 4-Methylphenol	1.54850	1.50237	1.54551	1.58218	1.61863	1.61380	AVRG		1.56850		2.85901
19 N-Nitrosodi-n-propylamine	1.40500	1.41289	1.45821	1.47725	1.50453	1.51332	AVRG		1.46187		3.11241
20 Hexachloroethane	0.71774	0.68829	0.72177	0.74746	0.74464	0.74957	AVRG		0.72824		3.27345
22 Nitrobenzene	0.59734	0.61583	0.64032	0.63126	0.61809	0.63418	AVRG		0.62284		2.51515
23 Isophorone	0.98595	1.03761	1.05627	1.04456	1.04667	1.07219	AVRG		1.04054		2.81538
24 2-Nitrophenol	0.20309	0.21661	0.22612	0.21804	0.21535	0.22145	AVRG		0.21678		3.57419
25 2,4-Dimethylphenol	0.48012	0.48463	0.51491	0.50616	0.50533	0.51243	AVRG		0.50060		2.92579
26 Bis(2-chloroethoxy)methane	0.53171	0.57046	0.55831	0.56005	0.55241	0.55686	AVRG		0.55497		2.31875
27 Benzoic acid	+++++	0.22093	0.21562	0.23202	0.24699	0.25248	AVRG		0.23361		6.84255
28 2,4-Dichlorophenol	0.32764	0.34470	0.35138	0.34466	0.34887	0.34575	AVRG		0.34383		2.43205
29 1,2,4-Trichlorobenzene	0.37933	0.38723	0.40817	0.38751	0.38573	0.39393	AVRG		0.39032		2.53866
31 Naphthalene	1.11046	1.16804	1.17339	1.18830	1.15258	1.18464	AVRG		1.16290		2.46564
32 4-Chloroaniline	0.46504	0.49911	0.51672	0.50224	0.50752	0.50989	AVRG		0.50009		3.64576
33 Hexachlorobutadiene	0.27429	0.28933	0.29955	0.29502	0.29353	0.29340	AVRG		0.29085		3.01061
34 Caprolactam	0.11185	0.13430	0.13451	0.13126	0.13417	0.14089	AVRG		0.13116		7.60596
35 4-chloro-3-methylphenol	0.41987	0.45833	0.46142	0.44262	0.45648	0.46360	AVRG		0.45039		3.69961
36 2-Methylnaphthalene	0.66004	0.68551	0.71331	0.69171	0.69565	0.69648	AVRG		0.69045		2.53913
37 Hexachlorocyclopentadiene	+++++	0.1547 36326	0.1980 49630	0.2216 76287	0.2786 158800	207282	LINR	0.70050	0.35604	0.22894	0.99866 24.8
38 2,4,6-Trichlorophenol	0.40976	0.43191	0.47983	0.43731	0.44708	0.45794	AVRG		0.44397		5.37844
39 2,4,5-Trichlorophenol	+++++	0.47767	0.51752	0.50082	0.51447	0.50988	AVRG		0.50407		3.18395
41 2-Chloronaphthalene	1.22298	1.24598	1.32237	1.26883	1.26522	1.30846	AVRG		1.27231		2.94148
42 Biphenyl	1.61944	1.57393	1.66123	1.62851	1.62094	1.61530	AVRG		1.61989		1.72799

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

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Batch Number: 200306304m1 Instrument: molly

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6	m8112	30-JUN-2003	09:17

Compound	20 Level 1	50 Level 2	60 Level 3	80 Level 4	120 Level 5	160 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 2-Nitroaniline	+++++	0.59398	0.63638	0.60720	0.60749	0.61751	AVRG		0.61251		2.57027
44 Dimethyl phthalate	1.57653	1.61216	1.65050	1.65793	1.65295	1.62863	AVRG		1.62978		1.92185
45 Acenaphthylene	2.01700	2.04575	2.09589	2.04780	2.04205	2.01765	AVRG		2.04436		1.40690
46 2,6-Dinitrotoluene	0.33257	0.35147	0.36902	0.36480	0.35552	0.35991	AVRG		0.35555		3.62539
48 3-Nitroaniline	+++++	0.35861	0.37413	0.36632	0.36999	0.37044	AVRG		0.36790		1.59893
49 Acenaphthene	1.26262	1.26958	1.33277	1.27846	1.27795	1.28477	AVRG		1.28436		1.94214
50 2,4-Dinitrophenol	+++++	0.16047	0.16728	0.17582	0.21156	0.20407	AVRG		0.18384		12.34993
51 4-Nitrophenol	+++++	0.29839	0.30391	0.30329	0.31619	0.32216	AVRG		0.30879		3.22123
52 Dibenzofuran	1.82037	1.81555	1.93442	1.84614	1.86745	1.84017	AVRG		1.85402		2.35229
53 2,4-Dinitrotoluene	0.48049	0.51579	0.52572	0.51169	0.51647	0.51712	AVRG		0.51121		3.07799
54 Diethyl phthalate	1.69914	1.70690	1.78713	1.76062	1.76179	1.75187	AVRG		1.74457		1.96935
55 Fluorene	1.49400	1.45386	1.56718	1.49045	1.49601	1.51987	AVRG		1.50356		2.50690
56 4-Chlorophenyl phenyl ether	0.80826	0.80703	0.86327	0.81620	0.80654	0.82804	AVRG		0.82156		2.67991
57 4-Nitroaniline	+++++	0.36635	0.38728	0.37047	0.36756	0.37690	AVRG		0.37371		2.30471
58 4,6-Dinitro-2-methylphenol	+++++	0.15402	0.16512	0.15774	0.16327	0.16785	AVRG		0.16160		3.48140
59 N-Nitrosodiphenylamine	0.56410	0.58409	0.60988	0.59726	0.60397	0.58880	AVRG		0.59135		2.76770
61 4-Bromophenyl phenyl ether	0.23121	0.24200	0.24188	0.24730	0.24870	0.24072	AVRG		0.24197		2.55373
62 Hexachlorobenzene	0.24352	0.25338	0.25714	0.25927	0.25270	0.25671	AVRG		0.25379		2.20478
63 Atrazine	0.27113	0.26647	0.27901	0.27261	0.28276	0.27414	AVRG		0.27435		2.11362
64 Pentachlorophenol	+++++	0.08829	0.08784	0.09658	0.10164	0.10789	AVRG		0.09645		8.95711
66 Phenanthrene	1.13173	1.14865	1.18783	1.19918	1.19275	1.18289	AVRG		1.17384		2.31272
67 Anthracene	1.17746	1.19918	1.23074	1.22904	1.23585	1.21603	AVRG		1.21471		1.85517

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Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

Job Number: 0307090 Initial Cal ID: COMX40

Batch Number: 200306304m1 Instrument: molly

Column ID: ZB-5 Fraction: Semi-VOA

Level	Calibration file	Injection Date	Injection Time
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5	m8114	30-JUN-2003	10:36
6	m8112	30-JUN-2003	09:17

Compound	20 Level 1	50 Level 2	60 Level 3	80 Level 4	120 Level 5	160 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
68 Carbazole	1.01969	1.05138	1.10310	1.08795	1.08497	1.09877	AVRG		1.07431		3.01216
69 Di-n-butyl phthalate	1.39090	1.48031	1.52589	1.54504	1.54313	1.56686	AVRG		1.50869		4.28182
70 Fluoranthene	1.35545	1.39460	1.46141	1.46433	1.44308	1.48245	AVRG		1.43355		3.39180
71 Benzidine	0.45153	0.44981	0.47694	0.35762	0.31075	0.33117	AVRG		0.39630		18.01028
72 Pyrene	1.04575	1.12281	1.11491	1.09651	1.13206	1.10558	AVRG		1.10294		2.78138
74 Butyl benzyl phthalate	0.50727	0.55476	0.56942	0.55327	0.57477	0.56987	AVRG		0.55489		4.48793
75 Benzo(a)anthracene	1.09837	1.17179	1.18629	1.15147	1.19899	1.21232	AVRG		1.16987		3.49800
76 3,3'-Dichlorobenzidine	0.39681	0.41514	0.41508	0.38305	0.40551	0.39545	AVRG		0.40184		3.11818
78 Chrysene	1.08327	1.13314	1.13680	1.10937	1.14061	1.12933	AVRG		1.12209		1.95373
79 Bis(2-ethylhexyl)phthalate	0.75855	0.82732	0.84720	0.84212	0.87102	0.87118	AVRG		0.83623		4.98850
80 Di-n-octyl phthalate	1.31710	1.41493	1.45637	1.48109	1.51052	1.52268	AVRG		1.45045		5.23635
81 Benzo(b)fluoranthene	1.67752	1.81411	1.96493	1.95998	2.03358	2.10202	AVRG		1.92536		8.02898
82 Benzo(k)fluoranthene	2.00461	1.96234	1.93406	1.91520	1.82960	1.81343	AVRG		1.90987		3.92436
83 Benzo(a)pyrene	1.57979	1.64675	1.76191	1.73386	1.72400	1.73106	AVRG		1.69623		4.06057
85 Indeno(1,2,3-cd)pyrene	1.13614	1.20228	1.26294	1.23380	1.24431	1.26939	AVRG		1.22481		4.04494
86 Dibenz(a,h)anthracene	1.48007	1.57206	1.63739	1.62227	1.62478	1.64270	AVRG		1.59654		3.90383
87 Benzo(g,h,i)perylene	1.51289	1.52672	1.66278	1.61460	1.61931	1.62542	AVRG		1.59362		3.75311
$ 3 2-Fluorophenol	1.21210	1.23172	1.24688	1.27120	1.30422	1.29229	AVRG		1.25973		2.83766
$ 6 Phenol-d5	1.70994	1.75561	1.81171	1.82187	1.88234	1.89238	AVRG		1.81231		3.90952
$ 21 Nitrobenzene-d5	0.50662	0.54088	0.56130	0.55287	0.54706	0.55493	AVRG		0.54394		3.59660
$ 40 2-Fluorobiphenyl	1.31635	1.32901	1.40740	1.36420	1.34992	1.36041	AVRG		1.35455		2.34700

Ecology & Environment, Inc.

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Batch Number: 200306304m1 Instrument: molly

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5	m8114	30-JUN-2003	10:36
6	m8112	30-JUN-2003	09:17

Compound	20 Level 1	50 Level 2	60 Level 3	80 Level 4	120 Level 5	160 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 60 2,4,6-Tribromophenol	0.17821	0.17492	0.18951	0.18308	0.18106	0.19063	AVRG		0.18290		3.39222
$ 73 Terphenyl-d14	0.65994	0.69762	0.70841	0.67589	0.71344	0.70880	AVRG		0.69402		3.09453

M = Summary Compound, $ = Surrogate Compound

Ecology & Environment, Inc.

INITIAL CALIBRATION DATA

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Column ID: ZB-5 Fraction: Semi-VOA

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6	m8112	30-JUN-2003	09:17

Average %RSD Results.

Calculated Average %RSD = 3.77876

Maximun Average %RSD = 15.00000

* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

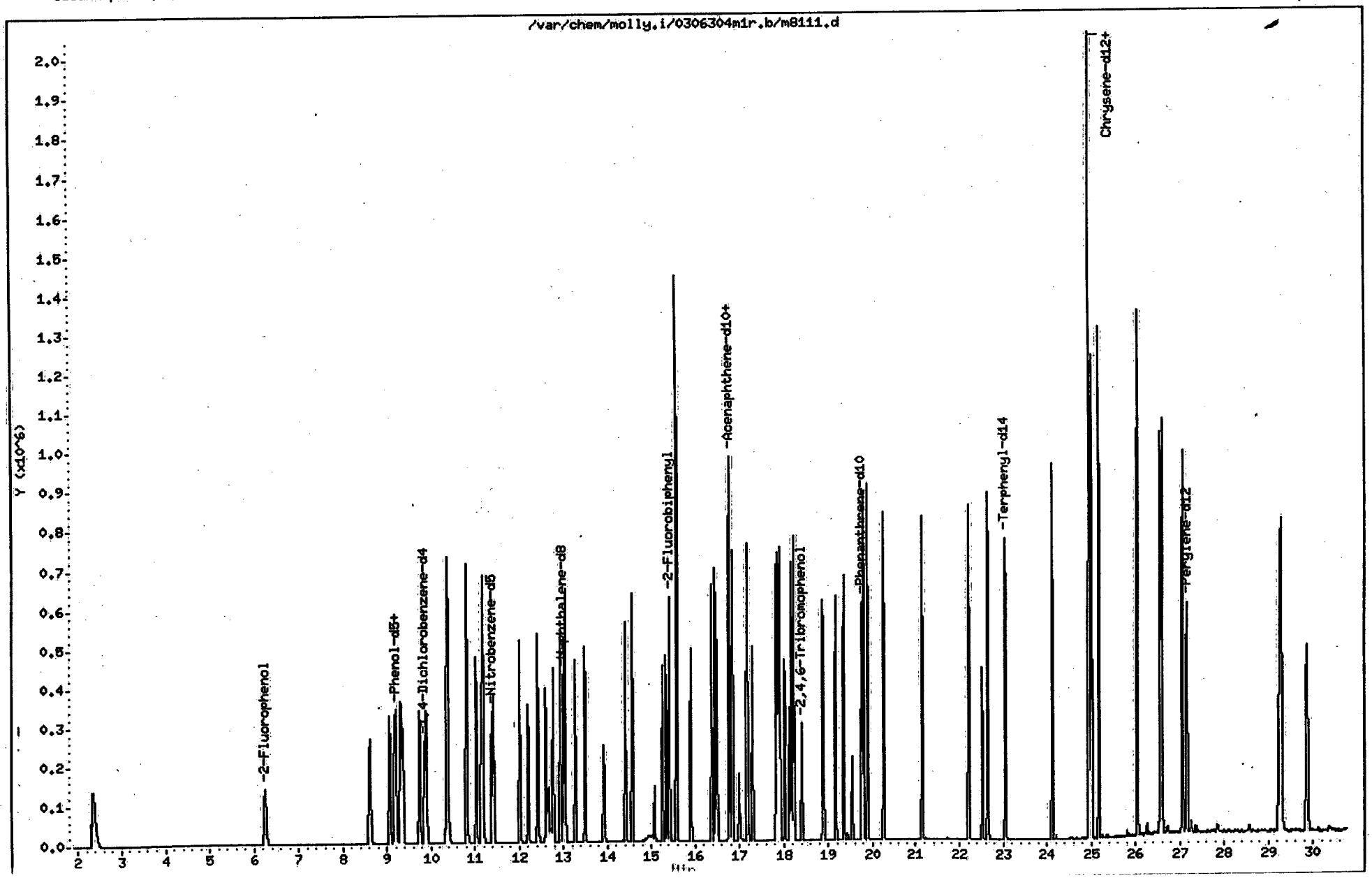
M = Summary Compound, $ = Surrogate Compound

Data File: /var/chem/molly.i/0306304m1r.b/m8111.d
Date : 30-JUN-2003 08:39
Client ID:
Sample Info: SSTD050

Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



)ata File: /var/chem/molly.i/0306304m1r.b/m8111.d
.eport Date: 30-Jun-2003 15:03

Ecology & Environment, Inc.

)ata file : /var/chem/molly.i/0306304m1r.b/m8111.d
.ab Smp Id: SSTD050
.nj Date : 30-JUN-2003 08:39
)perator : dce Inst ID: molly.i
3mp Info : SSTD050
Iisc Info : 0306304m1r;comx39;{},, 2ul inj 1653-2-4
:omment :
Iethod : /var/chem/molly.i/0306304m1r.b/comx40.m
Ieth Date : 30-Jun-2003 15:03 dennis Quant Type: ISTD
:al Date : 30-JUN-2003 08:39 Cal File: m8111.d
\ls bottle: 2 Calibration Sample, Level: 2
)il Factor: 1.00000
:ntegrator: HP RTE Compound Sublist: all.sub
:arget Version: 3.50
?rocessing Host: chemsrv2

		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	'ompounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
1	Pyridine	79	2.381	2.381	(0.242)	155476	50.0000	49.2
2	N-Nitrosodimethylamine	74	2.350	2.350	(0.238)	108126	50.0000	49.3
3	2-Fluorophenol	112	6.262	6.262	(0.636)	130336	50.0000	48.9
4	Benzaldehyde	77	8.611	8.611	(0.874)	146173	50.0000	57.8
5	Aniline	93	9.067	9.067	(0.920)	259440	50.0000	48.4
6	Phenol-d5	99	9.170	9.170	(0.931)	185772	50.0000	48.4
7	Phenol	94	9.201	9.201	(0.934)	205960	50.0000	47.6
8	Bis(2-chloroethyl)ether	93	9.305	9.305	(0.944)	162934	50.0000	47.8
9	2-Chlorophenol	128	9.367	9.367	(0.951)	144285	50.0000	48.3
10	1,3-Dichlorobenzene	146	9.740	9.740	(0.988)	163808	50.0000	49.0
11	1,4-Dichlorobenzene-d4	152	9.853	9.853	(1.000)	84653	40.0000	
12	1,4-Dichlorobenzene	146	9.905	9.905	(1.005)	162085	50.0000	47.5
13	Benzyl alcohol	108	10.381	10.381	(1.054)	109324	50.0000	48.2
14	1,2-Dichlorobenzene	146	10.392	10.392	(1.055)	161949	50.0000	49.3
15	2-Methylphenol	108	10.816	10.816	(1.098)	146734	50.0000	48.2
16	2,2'-Oxybis(1-chloropropane)	45	10.806	10.806	(1.097)	230306	50.0000	49.0
17	Acetophenone	105	11.033	11.033	(1.120)	244797	50.0000	47.8
18	4-Methylphenol	108	11.189	11.189	(1.135)	158975	50.0000	47.9
19	N-Nitrosodi-n-propylamine	70	11.147	11.147	(1.131)	149507	50.0000	48.3
20	Hexachloroethane	117	11.168	11.168	(1.133)	72832	50.0000	47.2
21	Nitrobenzene-d5	82	11.385	11.385	(0.876)	199007	50.0000	49.7
22	Nitrobenzene	77	11.427	11.427	(0.879)	226585	50.0000	49.4
23	Isophorone	82	12.006	12.006	(0.924)	381772	50.0000	49.8
24	2-Nitrophenol	139	12.203	12.203	(0.939)	79698	50.0000	50.0
25	2,4-Dimethylphenol	107	12.420	12.420	(0.955)	178311	50.0000	48.4
26	Bis(2-chloroethoxy)methane	93	12.607	12.607	(0.970)	209892	50.0000	51.4

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27 Benzoic acid	122	12.679	12.679	(0.975)	81288	50.0000	47.3
28 2,4-Dichlorophenol	162	12.772	12.772	(0.982)	126826	50.0000	50.1
29 1,2,4-Trichlorobenzene	180	12.927	12.927	(0.994)	142474	50.0000	49.6
30 Naphthalene-d8	136	13.000	13.000	(1.000)	294347	40.0000	
31 Naphthalene	128	13.041	13.041	(1.003)	429761	50.0000	50.2
32 4-Chloroaniline	127	13.269	13.269	(1.021)	183638	50.0000	49.9
33 Hexachlorobutadiene	225	13.497	13.497	(1.038)	106454	50.0000	49.7
34 Caprolactam	113	13.921	13.921	(1.071)	49413	50.0000	51.2
35 4-chloro-3-methylphenol	107	14.407	14.407	(1.108)	168636	50.0000	50.9
36 2-Methylnaphthalene	141	14.573	14.573	(1.121)	252223	50.0000	49.6
37 Hexachlorocyclopentadiene	237	15.070	15.070	(0.899)	36326	50.0000	49.7
38 2,4,6-Trichlorophenol	196	15.267	15.267	(0.910)	101440	50.0000	48.6
39 2,4,5-Trichlorophenol	196	15.339	15.339	(0.915)	112188	50.0000	47.4
40 2-Fluorobiphenyl	172	15.422	15.422	(0.920)	312138	50.0000	49.0
41 2-Chloronaphthalene	162	15.587	15.587	(0.930)	292636	50.0000	49.0
42 Biphenyl	154	15.587	15.587	(0.930)	369662	50.0000	48.6
43 2-Nitroaniline	65	15.898	15.898	(0.948)	139506	50.0000	48.5
44 Dimethyl phthalate	163	16.374	16.374	(0.977)	378641	50.0000	49.4
45 Acenaphthylene	152	16.446	16.446	(0.981)	480476	50.0000	50.0
46 2,6-Dinitrotoluene	165	16.498	16.498	(0.984)	82549	50.0000	49.4
47 Acenaphthene-d10	164	16.767	16.767	(1.000)	187892	40.0000	
48 3-Nitroaniline	138	16.767	16.767	(1.000)	84225	50.0000	48.7
49 Acenaphthene	153	16.829	16.829	(1.004)	298179	50.0000	49.4
50 2,4-Dinitrophenol	184	16.985	16.985	(1.013)	37689	50.0000	43.6
51 4-Nitrophenol	109	17.181	17.181	(1.025)	70082	50.0000	48.3
52 Dibenzofuran	168	17.171	17.171	(1.024)	426409	50.0000	49.0
53 2,4-Dinitrotoluene	165	17.295	17.295	(1.031)	121142	50.0000	50.4
54 Diethyl phthalate	149	17.833	17.833	(1.064)	400890	50.0000	48.9
55 Fluorene	166	17.864	17.864	(1.065)	341462	50.0000	48.3
56 4-Chlorophenyl phenyl ether	204	17.906	17.906	(1.068)	189543	50.0000	49.1
57 4-Nitroaniline	138	18.020	18.020	(1.075)	86043	50.0000	49.0
58 4,6-Dinitro-2-methylphenol	198	18.113	18.113	(0.917)	71487	50.0000	47.6
59 N-Nitrosodiphenylamine	169	18.165	18.165	(0.919)	271104	50.0000	49.4
60 2,4,6-Tribromophenol	330	18.403	18.403	(1.098)	41082	50.0000	47.8
61 4-Bromophenyl phenyl ether	248	18.889	18.889	(0.956)	112323	50.0000	50.0
62 Hexachlorobenzene	284	19.158	19.158	(0.970)	117605	50.0000	49.9
63 Atrazine	200	19.344	19.344	(0.979)	123680	50.0000	48.6
64 Pentachlorophenol	266	19.541	19.541	(0.989)	40981	50.0000	45.8
65 Phenanthrene-d10	188	19.758	19.758	(1.000)	371318	40.0000	
66 Phenanthrene	178	19.800	19.800	(1.002)	533144	50.0000	48.9
67 Anthracene	178	19.893	19.893	(1.007)	556598	50.0000	49.4
68 Carbazole	167	20.255	20.255	(1.025)	487995	50.0000	48.9
69 Di-n-butyl phthalate	149	21.145	21.145	(1.070)	687084	50.0000	49.0
70 Fluoranthene	202	22.222	22.222	(1.125)	647300	50.0000	48.6
71 Benzidine	184	22.532	22.532	(0.902)	260913	50.0000	56.8
72 Pyrene	202	22.657	22.657	(0.907)	651296	50.0000	50.9
$ 73 Terphenyl-d14	244	23.050	23.050	(0.923)	404657	50.0000	50.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.126	24.126	(0.966)	321795	50.0000	50.0
75 Benzo(a)anthracene	228	24.954	24.954	(0.999)	679704	50.0000	50.1
76 3,3'-Dichlorobenzidine	252	24.954	24.954	(0.999)	240807	50.0000	51.6
77 Chrysene-d12	240	24.975	24.975	(1.000)	464046	40.0000	
78 Chrysene	228	25.016	25.016	(1.002)	657286	50.0000	50.5
79 Bis(2-ethylhexyl)phthalate	149	25.172	25.172	(1.008)	479892	50.0000	49.5
80 Di-n-octyl phthalate	149	26.051	26.051	(1.043)	820739	50.0000	48.8
81 Benzo(b)fluoranthene	252	26.558	26.558	(0.978)	683870	50.0000	47.1
82 Benzo(k)fluoranthene	252	26.600	26.600	(0.979)	739749	50.0000	51.4
83 Benzo(a)pyrene	252	27.066	27.066	(0.997)	620780	50.0000	48.5
84 Perylene-d12	264	27.159	27.159	(1.000)	301578	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.260	29.260	(1.172)	697394	50.0000	49.1
86 Dibenz(a,h)anthracene	278	29.281	29.281	(1.078)	592624	50.0000	49.2
87 Benzo(g,h,i)perylene	276	29.860	29.860	(1.099)	575531	50.0000	47.9

Data File: /var/chem/molly.i/0306304m1r.b/m8112.d
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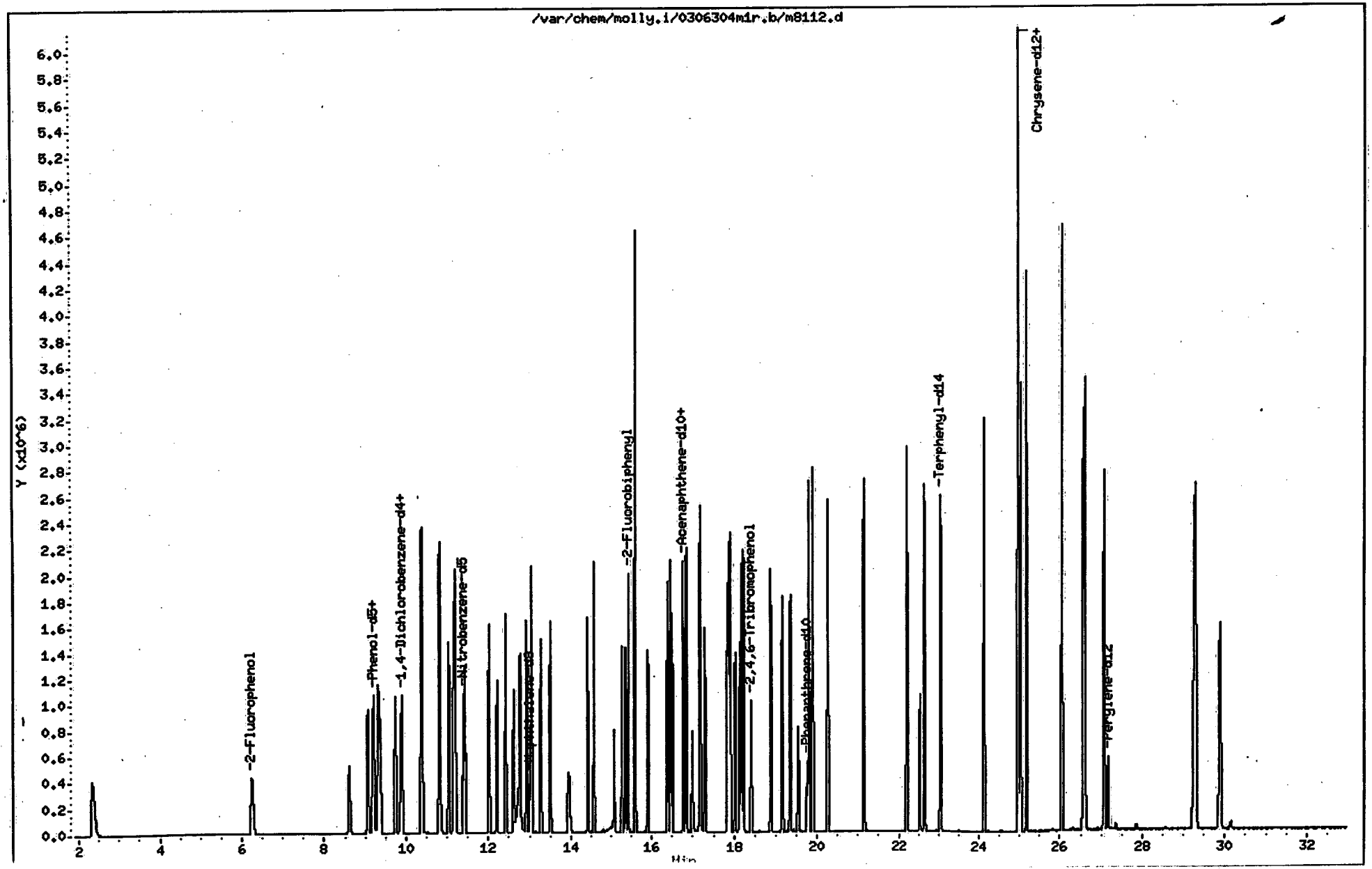
Client ID:
Sample Info: SSTD160

Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



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)ata file : /var/chem/molly.i/0306304m1r.b/m8112.d
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
1	Pyridine	79	2.342	2.342	(0.238)	488718	160.000	168(A)
2	N-Nitrosodimethylamine	74	2.300	2.300	(0.233)	332195	160.000	165(A)
3	2-Fluorophenol	112	6.244	6.244	(0.634)	402290	160.000	164(A)
4	Benzaldehyde	77	8.604	8.604	(0.873)	300293	160.000	129
5	Aniline	93	9.069	9.069	(0.920)	801306	160.000	163(A)
6	Phenol-d5	99	9.183	9.183	(0.932)	589097	160.000	167(A)
7	Phenol	94	9.214	9.214	(0.935)	656899	160.000	165(A)
8	Bis(2-chloroethyl)ether	93	9.307	9.307	(0.944)	508451	160.000	162(A)
9	2-Chlorophenol	128	9.370	9.370	(0.951)	452485	160.000	165(A)
10	1,3-Dichlorobenzene	146	9.742	9.742	(0.988)	506542	160.000	165(A)
11	1,4-Dichlorobenzene-d4	152	9.856	9.856	(1.000)	77825	40.0000	
12	1,4-Dichlorobenzene	146	9.897	9.897	(1.004)	509150	160.000	162(A)
13	Benzyl alcohol	108	10.384	10.384	(1.054)	355008	160.000	170(A)
14	1,2-Dichlorobenzene	146	10.394	10.394	(1.055)	483147	160.000	160
15	2-Methylphenol	108	10.819	10.819	(1.098)	468732	160.000	168(A)
16	2,2'-Oxybis(1-chloropropane)	45	10.808	10.808	(1.097)	710220	160.000	164(A)
17	Acetophenone	105	11.036	11.036	(1.120)	779489	160.000	165(A)
18	4-Methylphenol	108	11.191	11.191	(1.135)	502377	160.000	165(A)
19	N-Nitrosodi-n-propylamine	70	11.150	11.150	(1.131)	471098	160.000	166(A)
20	Hexachloroethane	117	11.171	11.171	(1.133)	233341	160.000	165(A)
21	Nitrobenzene-d5	82	11.388	11.388	(0.876)	624303	160.000	163(A)
22	Nitrobenzene	77	11.429	11.429	(0.879)	713465	160.000	163(A)
23	Isophorone	82	12.009	12.009	(0.924)	1206233	160.000	165(A)
24	2-Nitrophenol	139	12.206	12.206	(0.939)	249141	160.000	163(A)
25	2,4-Dimethylphenol	107	12.423	12.423	(0.955)	576496	160.000	164(A)
26	Bis(2-chloroethoxy)methane	93	12.609	12.609	(0.970)	626483	160.000	160(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27 Benzoic acid	122	12.744	12.744	(0.980)	284046	160.000	173(A)
28 2,4-Dichlorophenol	162	12.775	12.775	(0.982)	388972	160.000	161(A)
29 1,2,4-Trichlorobenzene	180	12.930	12.930	(0.994)	443174	160.000	161(A)
30 Naphthalene-d8	136	13.002	13.002	(1.000)	281255	40.0000	
31 Naphthalene	128	13.044	13.044	(1.003)	1332744	160.000	163(A)
32 4-Chloroaniline	127	13.272	13.272	(1.021)	573634	160.000	163(A)
33 Hexachlorobutadiene	225	13.499	13.499	(1.038)	330083	160.000	161(A)
34 Caprolactam	113	13.944	13.944	(1.072)	158502	160.000	172(A)
35 4-chloro-3-methylphenol	107	14.420	14.420	(1.109)	521558	160.000	165(A)
36 2-Methylnaphthalene	141	14.565	14.565	(1.120)	783557	160.000	161(A)
37 Hexachlorocyclopentadiene	237	15.073	15.073	(0.899)	207282	160.000	159
38 2,4,6-Trichlorophenol	196	15.269	15.269	(0.910)	325281	160.000	165(A)
39 2,4,5-Trichlorophenol	196	15.352	15.352	(0.915)	362172	160.000	162(A)
40 2-Fluorobiphenyl	172	15.424	15.424	(0.920)	966319	160.000	161(A)
41 2-Chloronaphthalene	162	15.590	15.590	(0.930)	929417	160.000	164(A)
42 Biphenyl	154	15.590	15.590	(0.930)	1147368	160.000	160
43 2-Nitroaniline	65	15.901	15.901	(0.948)	438624	160.000	161(A)
44 Dimethyl phthalate	163	16.387	16.387	(0.977)	1156834	160.000	160
45 Acenaphthylene	152	16.449	16.449	(0.981)	1433164	160.000	158
46 2,6-Dinitrotoluene	165	16.501	16.501	(0.984)	255647	160.000	162(A)
47 Acenaphthene-d10	164	16.770	16.770	(1.000)	177578	40.0000	
48 3-Nitroaniline	138	16.770	16.770	(1.000)	263129	160.000	161(A)
49 Acenaphthene	153	16.842	16.842	(1.004)	912587	160.000	160(A)
50 2,4-Dinitrophenol	184	16.987	16.987	(1.013)	144952	160.000	178(A)
51 4-Nitrophenol	109	17.194	17.194	(1.025)	228835	160.000	167(A)
52 Dibenzofuran	168	17.174	17.174	(1.024)	1307096	160.000	159
53 2,4-Dinitrotoluene	165	17.298	17.298	(1.031)	367314	160.000	162(A)
54 Diethyl phthalate	149	17.836	17.836	(1.064)	1244375	160.000	161(A)
55 Fluorene	166	17.877	17.877	(1.066)	1079581	160.000	162(A)
56 4-Chlorophenyl phenyl ether	204	17.908	17.908	(1.068)	588168	160.000	161(A)
57 4-Nitroaniline	138	18.033	18.033	(1.075)	267720	160.000	161(A)
58 4,6-Dinitro-2-methylphenol	198	18.126	18.126	(0.917)	235673	160.000	166(A)
59 N-Nitrosodiphenylamine	169	18.167	18.167	(0.919)	826730	160.000	159
60 2,4,6-Tribromophenol	330	18.405	18.405	(1.097)	135405	160.000	167(A)
61 4-Bromophenyl phenyl ether	248	18.881	18.881	(0.955)	337992	160.000	159
62 Hexachlorobenzene	284	19.161	19.161	(0.970)	360445	160.000	162(A)
63 Atrazine	200	19.357	19.357	(0.980)	384910	160.000	160
64 Pentachlorophenol	266	19.544	19.544	(0.989)	151487	160.000	179(A)
65 Phenanthrene-d10	188	19.761	19.761	(1.000)	351021	40.0000	
66 Phenanthrene	178	19.803	19.803	(1.002)	1660878	160.000	161(A)
67 Anthracene	178	19.896	19.896	(1.007)	1707402	160.000	160(A)
68 Carbazole	167	20.258	20.258	(1.025)	1542772	160.000	164(A)
69 Di-n-butyl phthalate	149	21.148	21.148	(1.070)	2200000	160.000	166(A)
70 Fluoranthene	202	22.224	22.224	(1.125)	2081478	160.000	165(A)
71 Benzidine	184	22.535	22.535	(0.902)	604029	160.000	134
72 Pyrene	202	22.659	22.659	(0.907)	2016495	160.000	160(A)
$ 73 Terphenyl-d14	244	23.052	23.052	(0.923)	1292801	160.000	163(A)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.129	24.129	(0.966)	1039391	160.000	164(A)
75 Benzo(a)anthracene	228	24.957	24.957	(0.999)	2211171	160.000	166(A)
76 3,3'-Dichlorobenzidine	252	24.967	24.967	(1.000)	721278	160.000	157
77 Chrysene-d12	240	24.978	24.978	(1.000)	455981	40.0000	
78 Chrysene	228	25.029	25.029	(1.002)	2059804	160.000	161(A)
79 Bis(2-ethylhexyl)phthalate	149	25.174	25.174	(1.008)	1588970	160.000	167(A)
80 Di-n-octyl phthalate	149	26.054	26.054	(1.043)	2777244	160.000	168(A)
81 Benzo(b)fluoranthene	252	26.572	26.572	(0.978)	2453743	160.000	175(A)
82 Benzo(k)fluoranthene	252	26.603	26.603	(0.979)	2116866	160.000	152
83 Benzo(a)pyrene	252	27.079	27.079	(0.997)	2020711	160.000	163(A)
84 Perylene-d12	264	27.161	27.161	(1.000)	291832	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.273	29.273	(1.172)	2315268	160.000	166(A)
86 Dibenz(a,h)anthracene	278	29.294	29.294	(1.078)	1917568	160.000	165(A)
87 Benzo(g,h,i)perylene	276	29.884	29.884	(1.100)	1897396	160.000	163(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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Client ID:
Sample Info: SSTD020

Instrument: molly.i

Operator: dce
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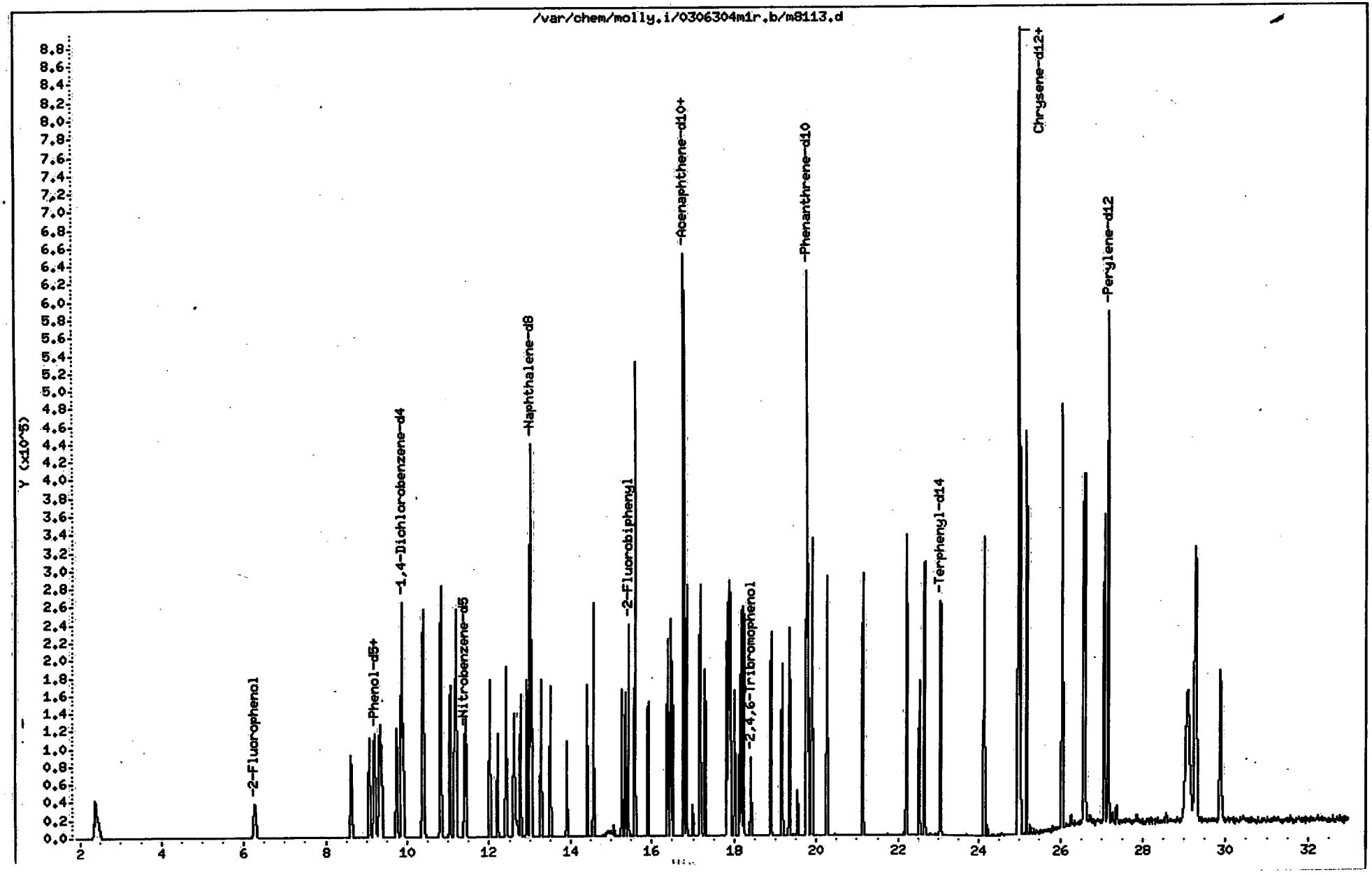
Column phase: ZB-5



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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	Pyridine	79	2.422	2.422	(0.246)	54778	20.0000	18.7
2	N-Nitrosodimethylamine	74	2.370	2.370	(0.240)	38636	20.0000	19.0
3	2-Fluorophenol	112	6.262	6.262	(0.635)	47630	20.0000	19.2
4	Benzaldehyde	77	8.622	8.622	(0.874)	55121	20.0000	23.4
5	Aniline	93	9.077	9.077	(0.920)	96012	20.0000	19.3
6	Phenol-d5	99	9.181	9.181	(0.931)	67193	20.0000	18.9
7	Phenol	94	9.212	9.212	(0.934)	76840	20.0000	19.1
8	Bis(2-chloroethyl)ether	93	9.315	9.315	(0.944)	62161	20.0000	19.6
9	2-Chlorophenol	128	9.377	9.377	(0.951)	53463	20.0000	19.3
10	1,3-Dichlorobenzene	146	9.750	9.750	(0.988)	60238	20.0000	19.4
11	1,4-Dichlorobenzene-d4	152	9.864	9.864	(1.000)	78591	40.0000	
12	1,4-Dichlorobenzene	146	9.905	9.905	(1.004)	63509	20.0000	20.0
13	Benzyl alcohol	108	10.392	10.392	(1.054)	39576	20.0000	18.8
14	1,2-Dichlorobenzene	146	10.402	10.402	(1.055)	60884	20.0000	20.0
15	2-Methylphenol	108	10.816	10.816	(1.097)	53040	20.0000	18.8
16	2,2'-Oxybis(1-chloropropane)	45	10.816	10.816	(1.097)	83964	20.0000	19.2
17	Acetophenone	105	11.044	11.044	(1.120)	93285	20.0000	19.6
18	4-Methylphenol	108	11.189	11.189	(1.134)	60849	20.0000	19.7
19	N-Nitrosodi-n-propylamine	70	11.147	11.147	(1.130)	55210	20.0000	19.2
20	Hexachloroethane	117	11.178	11.178	(1.133)	28204	20.0000	19.7
21	Nitrobenzene-d5	82	11.396	11.396	(0.877)	72095	20.0000	18.6
22	Nitrobenzene	77	11.437	11.437	(0.880)	85005	20.0000	19.2
23	Isophorone	82	12.017	12.017	(0.924)	140307	20.0000	19.0
24	2-Nitrophenol	139	12.213	12.213	(0.939)	28901	20.0000	18.7
25	2,4-Dimethylphenol	107	12.420	12.420	(0.955)	68324	20.0000	19.2
26	Bis(2-chloroethoxy)methane	93	12.617	12.617	(0.971)	75666	20.0000	19.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27	Benzoic acid	122	12.648	12.648	(0.973)	25077	20.0000	15.1
28	2,4-Dichlorophenol	162	12.772	12.772	(0.982)	46625	20.0000	19.0
29	1,2,4-Trichlorobenzene	180	12.927	12.927	(0.994)	53981	20.0000	19.4
30	Naphthalene-d8	136	13.000	13.000	(1.000)	284612	40.0000	
31	Naphthalene	128	13.041	13.041	(1.003)	158025	20.0000	19.1
32	4-Chloroaniline	127	13.279	13.279	(1.021)	66178	20.0000	18.6
33	Hexachlorobutadiene	225	13.507	13.507	(1.039)	39033	20.0000	18.9
34	Caprolactam	113	13.911	13.911	(1.070)	15917	20.0000	17.0
35	4-chloro-3-methylphenol	107	14.407	14.407	(1.108)	59750	20.0000	18.6
36	2-Methylnaphthalene	141	14.573	14.573	(1.121)	93928	20.0000	19.1
37	Hexachlorocyclopentadiene	237	15.080	15.080	(0.899)	6218	20.0000	32.0
38	2,4,6-Trichlorophenol	196	15.267	15.267	(0.910)	35887	20.0000	18.4
39	2,4,5-Trichlorophenol	196	15.349	15.349	(0.915)	39580	20.0000	17.9
40	2-Fluorobiphenyl	172	15.422	15.422	(0.919)	115288	20.0000	19.4
41	2-Chloronaphthalene	162	15.587	15.587	(0.929)	107110	20.0000	19.2
42	Biphenyl	154	15.587	15.587	(0.929)	141833	20.0000	20.0
43	2-Nitroaniline	65	15.908	15.908	(0.948)	46752	20.0000	17.4
44	Dimethyl phthalate	163	16.384	16.384	(0.977)	138075	20.0000	19.3
45	Acenaphthylene	152	16.457	16.457	(0.981)	176652	20.0000	19.7
46	2,6-Dinitrotoluene	165	16.498	16.498	(0.983)	29127	20.0000	18.7
47	Acenaphthene-d10	164	16.778	16.778	(1.000)	175163	40.0000	
48	3-Nitroaniline	138	16.767	16.767	(0.999)	31648	20.0000	19.6
49	Acenaphthene	153	16.840	16.840	(1.004)	110582	20.0000	19.7
50	2,4-Dinitrophenol	184	16.995	16.995	(1.013)	9061	20.0000	11.2
51	4-Nitrophenol	109	17.192	17.192	(1.025)	21542	20.0000	15.9
52	Dibenzofuran	168	17.171	17.171	(1.023)	159431	20.0000	19.6
53	2,4-Dinitrotoluene	165	17.295	17.295	(1.031)	42082	20.0000	18.8
54	Diethyl phthalate	149	17.833	17.833	(1.063)	148813	20.0000	19.5
55	Fluorene	166	17.875	17.875	(1.065)	130847	20.0000	19.9
56	4-Chlorophenyl phenyl ether	204	17.906	17.906	(1.067)	70789	20.0000	19.7
57	4-Nitroaniline	138	18.020	18.020	(1.074)	30933	20.0000	18.9
58	4,6-Dinitro-2-methylphenol	198	18.123	18.123	(0.917)	22146	20.0000	15.4
59	N-Nitrosodiphenylamine	169	18.165	18.165	(0.919)	100534	20.0000	19.1
60	2,4,6-Tribromophenol	330	18.413	18.413	(1.097)	15608	20.0000	19.5
61	4-Bromophenyl phenyl ether	248	18.889	18.889	(0.956)	41207	20.0000	19.1
62	Hexachlorobenzene	284	19.158	19.158	(0.970)	43401	20.0000	19.2
63	Atrazine	200	19.344	19.344	(0.979)	48320	20.0000	19.8
64	Pentachlorophenol	266	19.541	19.541	(0.989)	10390	20.0000	12.1
65	Phenanthrene-d10	188	19.759	19.759	(1.000)	356440	40.0000	
66	Phenanthrene	178	19.800	19.800	(1.002)	201697	20.0000	19.3
67	Anthracene	178	19.893	19.893	(1.007)	209847	20.0000	19.4
68	Carbazole	167	20.255	20.255	(1.025)	181730	20.0000	19.0
69	Di-n-butyl phthalate	149	21.145	21.145	(1.070)	247887	20.0000	18.4
70	Fluoranthene	202	22.222	22.222	(1.125)	241569	20.0000	18.9
71	Benzidine	184	22.532	22.532	(0.902)	105025	20.0000	22.8
72	Pyrene	202	22.667	22.667	(0.908)	243238	20.0000	19.0
73	Terphenyl-d14	244	23.060	23.060	(0.923)	153500	20.0000	19.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.126	24.126	(0.966)	117990	20.0000	18.3
75 Benzo(a)anthracene	228	24.954	24.954	(0.999)	255479	20.0000	18.8
76 3,3'-Dichlorobenzidine	252	24.965	24.965	(1.000)	92297	20.0000	19.7
77 Chrysene-d12	240	24.975	24.975	(1.000)	465195	40.0000	
78 Chrysene	228	25.016	25.016	(1.002)	251965	20.0000	19.3
79 Bis(2-ethylhexyl)phthalate	149	25.172	25.172	(1.008)	176436	20.0000	18.1
80 Di-n-octyl phthalate	149	26.051	26.051	(1.043)	306354	20.0000	18.2
81 Benzo(b)fluoranthene	252	26.569	26.569	(0.978)	244657	20.0000	17.4
82 Benzo(k)fluoranthene	252	26.600	26.600	(0.979)	292362	20.0000	21.0
83 Benzo(a)pyrene	252	27.066	27.066	(0.997)	230404	20.0000	18.6
84 Perylene-d12	264	27.159	27.159	(1.000)	291689	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.260	29.260	(1.172)	264263	20.0000	18.6
86 Dibenz(a,h)anthracene	278	29.281	29.281	(1.078)	215860	20.0000	18.5
87 Benzo(g,h,i)perylene	276	29.871	29.871	(1.100)	220647	20.0000	19.0

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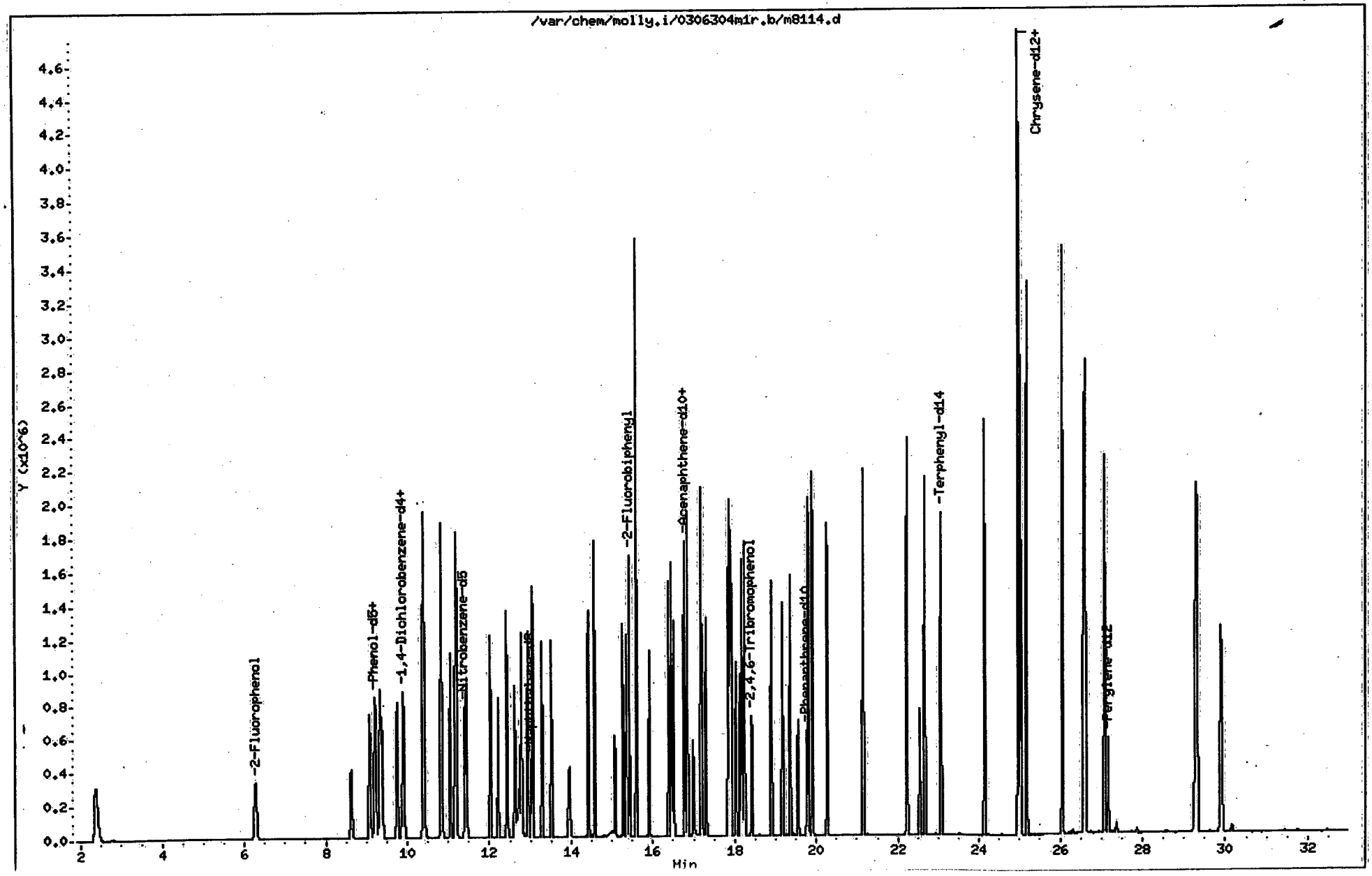
Instrument: molly.i

Operator: dce
Column diameter: 0.25



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arget Version: 3.50
rocessing Host: chemsrv2

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	2.401	2.401	(0.243)	386445	120.000	126
2 N-Nitrosodimethylamine	74	2.380	2.380	(0.241)	261461	120.000	122
3 2-Fluorophenol	112	6.282	6.282	(0.636)	322418	120.000	124
4 Benzaldehyde	77	8.632	8.632	(0.874)	240885	120.000	97.8
5 Aniline	93	9.087	9.087	(0.920)	642567	120.000	123
6 Phenol-d5	99	9.201	9.201	(0.932)	465336	120.000	125
7 Phenol	94	9.232	9.232	(0.935)	519332	120.000	123
8 Bis(2-chloroethyl)ether	93	9.325	9.325	(0.944)	411144	120.000	124
9 2-Chlorophenol	128	9.387	9.387	(0.951)	354123	120.000	122
10 1,3-Dichlorobenzene	146	9.760	9.760	(0.988)	396275	120.000	122
11 1,4-Dichlorobenzene-d4	152	9.874	9.874	(1.000)	82404	40.0000	
12 1,4-Dichlorobenzene	146	9.915	9.915	(1.004)	408310	120.000	123
13 Benzyl alcohol	108	10.402	10.402	(1.053)	274754	120.000	124
14 1,2-Dichlorobenzene	146	10.412	10.412	(1.054)	386573	120.000	121
15 2-Methylphenol	108	10.826	10.826	(1.096)	362808	120.000	122
16 2,2'-Oxybis(1-chloropropane)	45	10.826	10.826	(1.096)	569063	120.000	124
17 Acetophenone	105	11.054	11.054	(1.119)	617817	120.000	124
18 4-Methylphenol	108	11.199	11.199	(1.134)	400145	120.000	124
19 N-Nitrosodi-n-propylamine	70	11.157	11.157	(1.130)	371938	120.000	124
20 Hexachloroethane	117	11.188	11.188	(1.133)	184083	120.000	123
21 Nitrobenzene-d5	82	11.395	11.395	(0.876)	497534	120.000	121
22 Nitrobenzene	77	11.447	11.447	(0.880)	562134	120.000	119
23 Isophorone	82	12.027	12.027	(0.924)	951919	120.000	121
24 2-Nitrophenol	139	12.223	12.223	(0.940)	195859	120.000	119
25 2,4-Dimethylphenol	107	12.430	12.430	(0.955)	459586	120.000	121
26 Bis(2-chloroethoxy)methane	93	12.627	12.627	(0.971)	502407	120.000	119

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27	Benzoic acid	122	12.741	12.741	(0.979)	224627	120.000	127
28	2,4-Dichlorophenol	162	12.782	12.782	(0.982)	317285	120.000	122
29	1,2,4-Trichlorobenzene	180	12.938	12.938	(0.994)	350807	120.000	118
30	Naphthalene-d8	136	13.010	13.010	(1.000)	303158	40.0000	
31	Naphthalene	128	13.051	13.051	(1.003)	1048245	120.000	119
32	4-Chloroaniline	127	13.289	13.289	(1.021)	461580	120.000	122
33	Hexachlorobutadiene	225	13.517	13.517	(1.039)	266957	120.000	121
34	Caprolactam	113	13.962	13.962	(1.073)	122023	120.000	123
35	4-chloro-3-methylphenol	107	14.428	14.428	(1.109)	415153	120.000	122
36	2-Methylnaphthalene	141	14.583	14.583	(1.121)	632672	120.000	121
37	Hexachlorocyclopentadiene	237	15.080	15.080	(0.898)	158800	120.000	122
38	2,4,6-Trichlorophenol	196	15.277	15.277	(0.910)	254872	120.000	121
39	2,4,5-Trichlorophenol	196	15.359	15.359	(0.915)	293287	120.000	122
40	2-Fluorobiphenyl	172	15.432	15.432	(0.919)	769562	120.000	120
41	2-Chloronaphthalene	162	15.597	15.597	(0.929)	721274	120.000	119
42	Biphenyl	154	15.608	15.608	(0.930)	924063	120.000	120
43	2-Nitroaniline	65	15.918	15.918	(0.948)	346316	120.000	119
44	Dimethyl phthalate	163	16.394	16.394	(0.977)	942308	120.000	122
45	Acenaphthylene	152	16.467	16.467	(0.981)	1164125	120.000	120
46	2,6-Dinitrotoluene	165	16.508	16.508	(0.983)	202675	120.000	120
47	Acenaphthene-d10	164	16.788	16.788	(1.000)	190026	40.0000	
48	3-Nitroaniline	138	16.777	16.777	(0.999)	210922	120.000	121
49	Acenaphthene	153	16.850	16.850	(1.004)	728530	120.000	119
50	2,4-Dinitrophenol	184	16.995	16.995	(1.012)	120603	120.000	138
51	4-Nitrophenol	109	17.202	17.202	(1.025)	180252	120.000	123
52	Dibenzofuran	168	17.181	17.181	(1.023)	1064591	120.000	121
53	2,4-Dinitrotoluene	165	17.305	17.305	(1.031)	294429	120.000	121
54	Diethyl phthalate	149	17.854	17.854	(1.063)	1004355	120.000	121
55	Fluorene	166	17.885	17.885	(1.065)	852842	120.000	119
56	4-Chlorophenyl phenyl ether	204	17.916	17.916	(1.067)	459793	120.000	118
57	4-Nitroaniline	138	18.040	18.040	(1.075)	209539	120.000	118
58	4,6-Dinitro-2-methylphenol	198	18.133	18.133	(0.917)	184171	120.000	121
59	N-Nitrosodiphenylamine	169	18.185	18.185	(0.920)	681302	120.000	122
60	2,4,6-Tribromophenol	330	18.423	18.423	(1.097)	103221	120.000	119
61	4-Bromophenyl phenyl ether	248	18.899	18.899	(0.956)	280542	120.000	123
62	Hexachlorobenzene	284	19.168	19.168	(0.970)	285053	120.000	119
63	Atrazine	200	19.365	19.365	(0.980)	318968	120.000	124
64	Pentachlorophenol	266	19.551	19.551	(0.989)	114651	120.000	126
65	Phenanthrene-d10	188	19.769	19.769	(1.000)	376011	40.0000	
66	Phenanthrene	178	19.810	19.810	(1.002)	1345457	120.000	122
67	Anthracene	178	19.903	19.903	(1.007)	1394074	120.000	122
68	Carbazole	167	20.265	20.265	(1.025)	1223877	120.000	121
69	Di-n-butyl phthalate	149	21.155	21.155	(1.070)	1740702	120.000	123
70	Fluoranthene	202	22.232	22.232	(1.125)	1627842	120.000	121
71	Benzidine	184	22.542	22.542	(0.902)	440756	120.000	94.1
72	Pyrene	202	22.677	22.677	(0.907)	1605646	120.000	123
73	Terphenyl-d14	244	23.070	23.070	(0.923)	1011908	120.000	123

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.136	24.136	(0.966)	815222	120.000	124
75 Benzo(a)anthracene	228	24.964	24.964	(0.999)	1700588	120.000	123
76 3,3'-Dichlorobenzidine	252	24.975	24.975	(0.999)	575159	120.000	121
77 Chrysene-d12	240	24.995	24.995	(1.000)	472782	40.0000	
78 Chrysene	228	25.037	25.037	(1.002)	1617783	120.000	122
79 Bis(2-ethylhexyl)phthalate	149	25.182	25.182	(1.007)	1235401	120.000	125
80 Di-n-octyl phthalate	149	26.061	26.061	(1.043)	2142433	120.000	125
81 Benzo(b)fluoranthene	252	26.579	26.579	(0.978)	1847873	120.000	127
82 Benzo(k)fluoranthene	252	26.610	26.610	(0.979)	1662518	120.000	115
83 Benzo(a)pyrene	252	27.086	27.086	(0.997)	1566565	120.000	122
84 Perylene-d12	264	27.169	27.169	(1.000)	302893	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.291	29.291	(1.172)	1764867	120.000	122
86 Dibenz(a,h)anthracene	278	29.311	29.311	(1.079)	1476399	120.000	122
87 Benzo(g,h,i)perylene	276	29.901	29.901	(1.101)	1471429	120.000	122

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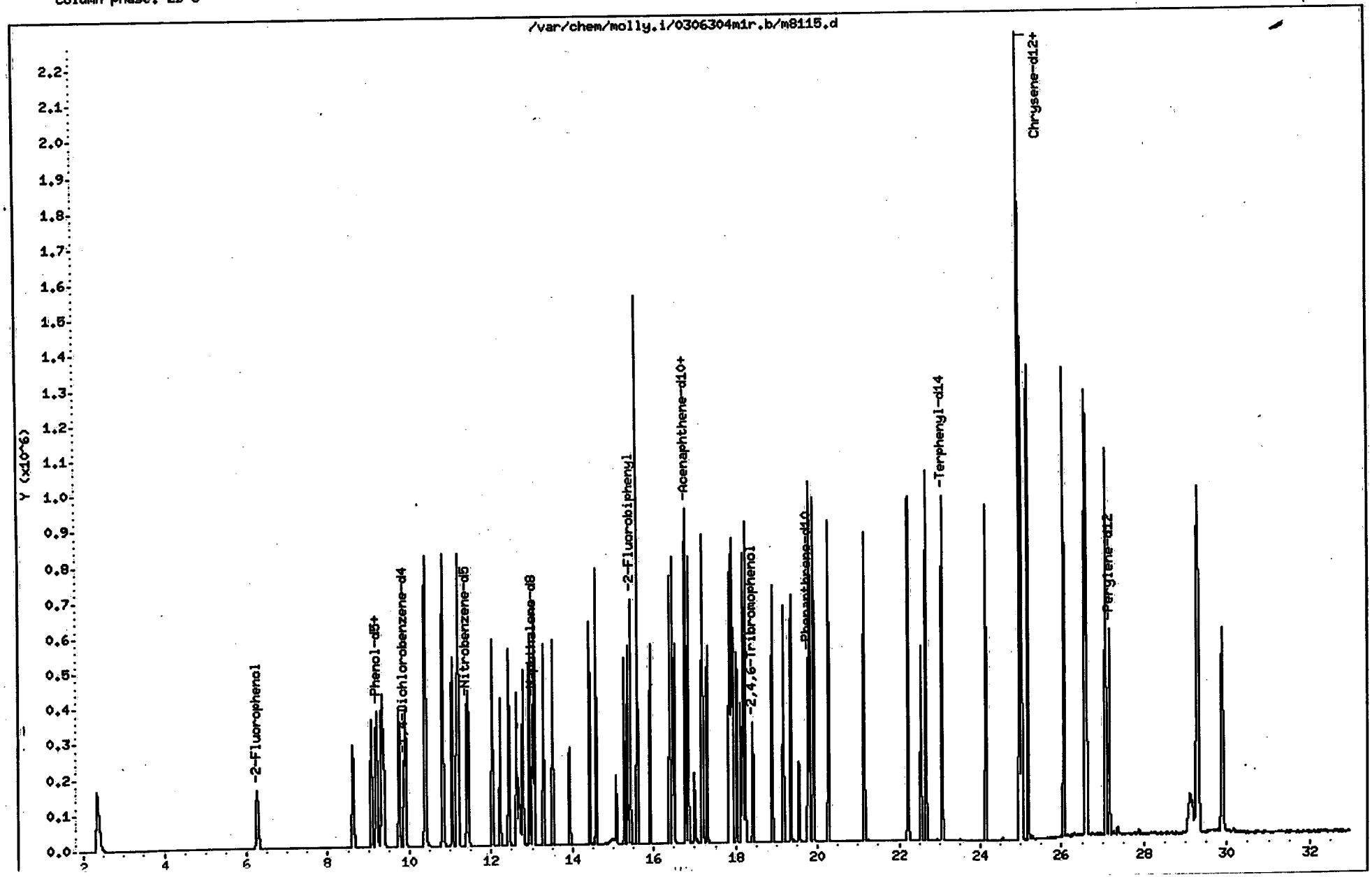

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	Pyridine	79	2.341	2.341	(0.237)	171384	60.0000	58.8
2	N-Nitrosodimethylamine	74	2.321	2.321	(0.235)	121401	60.0000	59.9
3	2-Fluorophenol	112	6.264	6.264	(0.635)	146235	60.0000	59.4
4	Benzaldehyde	77	8.624	8.624	(0.874)	164393	60.0000	70.3
5	Aniline	93	9.079	9.079	(0.920)	299825	60.0000	60.6
6	Phenol-d5	99	9.183	9.183	(0.931)	212478	60.0000	60.0
7	Phenol	94	9.214	9.214	(0.934)	240553	60.0000	60.2
8	Bis(2-chloroethyl)ether	93	9.317	9.317	(0.944)	186840	60.0000	59.3
9	2-Chlorophenol	128	9.379	9.379	(0.951)	166224	60.0000	60.3
10	1,3-Dichlorobenzene	146	9.752	9.752	(0.988)	186327	60.0000	60.3
11	1,4-Dichlorobenzene-d4	152	9.866	9.866	(1.000)	78187	40.0000	
12	1,4-Dichlorobenzene	146	9.918	9.918	(1.005)	189052	60.0000	60.0
13	Benzyl alcohol	108	10.394	10.394	(1.054)	122874	60.0000	58.7
14	1,2-Dichlorobenzene	146	10.404	10.404	(1.055)	177994	60.0000	58.7
15	2-Methylphenol	108	10.818	10.818	(1.097)	168900	60.0000	60.1
16	2,2'-Oxybis(1-chloropropane)	45	10.818	10.818	(1.097)	257885	60.0000	59.4
17	Acetophenone	105	11.046	11.046	(1.120)	279085	60.0000	58.9
18	4-Methylphenol	108	11.201	11.201	(1.135)	181258	60.0000	59.1
19	N-Nitrosodi-n-propylamine	70	11.160	11.160	(1.131)	171020	60.0000	59.8
20	Hexachloroethane	117	11.191	11.191	(1.134)	84649	60.0000	59.5
21	Nitrobenzene-d5	82	11.398	11.398	(0.876)	228068	60.0000	61.9
22	Nitrobenzene	77	11.439	11.439	(0.879)	260176	60.0000	61.7
23	Isophorone	82	12.019	12.019	(0.924)	429184	60.0000	60.9
24	2-Nitrophenol	139	12.215	12.215	(0.939)	91878	60.0000	62.6
25	2,4-Dimethylphenol	107	12.433	12.433	(0.955)	209219	60.0000	61.7
26	Bis(2-chloroethoxy)methane	93	12.619	12.619	(0.970)	226853	60.0000	60.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	27 Benzoic acid	122	12.691	12.691	(0.975)	87610	60.0000	55.4
	28 2,4-Dichlorophenol	162	12.785	12.785	(0.982)	142773	60.0000	61.3
	29 1,2,4-Trichlorobenzene	180	12.940	12.940	(0.994)	165848	60.0000	62.7
	30 Naphthalene-d8	136	13.012	13.012	(1.000)	270881	40.0000	
	31 Naphthalene	128	13.054	13.054	(1.003)	476773	60.0000	60.5
	32 4-Chloroaniline	127	13.281	13.281	(1.021)	209956	60.0000	62.0
	33 Hexachlorobutadiene	225	13.509	13.509	(1.038)	121714	60.0000	61.8
	34 Caprolactam	113	13.933	13.933	(1.071)	54654	60.0000	61.5
	35 4-chloro-3-methylphenol	107	14.420	14.420	(1.108)	187486	60.0000	61.5
	36 2-Methylnaphthalene	141	14.575	14.575	(1.120)	289835	60.0000	62.0
	37 Hexachlorocyclopentadiene	237	15.082	15.082	(0.899)	49630	60.0000	61.4
	38 2,4,6-Trichlorophenol	196	15.279	15.279	(0.911)	120243	60.0000	64.8
	39 2,4,5-Trichlorophenol	196	15.351	15.351	(0.915)	129690	60.0000	61.6
	40 2-Fluorobiphenyl	172	15.434	15.434	(0.920)	352691	60.0000	62.3
	41 2-Chloronaphthalene	162	15.589	15.589	(0.929)	331383	60.0000	62.4
	42 Biphenyl	154	15.600	15.600	(0.930)	416300	60.0000	61.5
	43 2-Nitroaniline	65	15.910	15.910	(0.948)	159475	60.0000	62.3
	44 Dimethyl phthalate	163	16.386	16.386	(0.977)	413610	60.0000	60.8
	45 Acenaphthylene	152	16.459	16.459	(0.981)	525225	60.0000	61.5
	46 2,6-Dinitrotoluene	165	16.511	16.511	(0.984)	92476	60.0000	62.3
	47 Acenaphthene-d10	164	16.780	16.780	(1.000)	167065	40.0000	
	48 3-Nitroaniline	138	16.769	16.769	(0.999)	93756	60.0000	61.0
	49 Acenaphthene	153	16.842	16.842	(1.004)	333989	60.0000	62.3
	50 2,4-Dinitrophenol	184	16.997	16.997	(1.013)	41920	60.0000	54.6
	51 4-Nitrophenol	109	17.194	17.194	(1.025)	76158	60.0000	59.0
	52 Dibenzofuran	168	17.183	17.183	(1.024)	484760	60.0000	62.6
	53 2,4-Dinitrotoluene	165	17.308	17.308	(1.031)	131743	60.0000	61.7
	54 Diethyl phthalate	149	17.846	17.846	(1.064)	447850	60.0000	61.5
	55 Fluorene	166	17.887	17.887	(1.066)	392732	60.0000	62.5
	56 4-Chlorophenyl phenyl ether	204	17.918	17.918	(1.068)	216333	60.0000	63.0
	57 4-Nitroaniline	138	18.022	18.022	(1.074)	97051	60.0000	62.2
	58 4,6-Dinitro-2-methylphenol	198	18.125	18.125	(0.917)	83523	60.0000	61.3
	59 N-Nitrosodiphenylamine	169	18.177	18.177	(0.919)	308489	60.0000	61.9
s	60 2,4,6-Tribromophenol	330	18.415	18.415	(1.097)	47490	60.0000	62.2
	61 4-Bromophenyl phenyl ether	248	18.891	18.891	(0.956)	122349	60.0000	60.0
	62 Hexachlorobenzene	284	19.171	19.171	(0.970)	130068	60.0000	60.8
	63 Atrazine	200	19.357	19.357	(0.979)	141129	60.0000	61.0
	64 Pentachlorophenol	266	19.554	19.554	(0.989)	44430	60.0000	54.6
*	65 Phenanthrene-d10	188	19.771	19.771	(1.000)	337213	40.0000	
	66 Phenanthrene	178	19.812	19.812	(1.002)	600828	60.0000	60.7
	67 Anthracene	178	19.905	19.905	(1.007)	622531	60.0000	60.8
	68 Carbazole	167	20.268	20.268	(1.025)	557972	60.0000	61.6
	69 Di-n-butyl phthalate	149	21.147	21.147	(1.070)	771825	60.0000	60.7
	70 Fluoranthene	202	22.234	22.234	(1.125)	739209	60.0000	61.2
	71 Benzidine	184	22.545	22.545	(0.902)	313659	60.0000	72.2
	72 Pyrene	202	22.669	22.669	(0.907)	733224	60.0000	60.6
S	73 Terphenyl-d14	244	23.062	23.062	(0.923)	465888	60.0000	61.2

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.139	24.139	(0.966)	374482	60.0000	61.6
75 Benzo(a)anthracene	228	24.967	24.967	(0.999)	780162	60.0000	60.8
76 3,3'-Dichlorobenzidine	252	24.967	24.967	(0.999)	272979	60.0000	62.0
77 Chrysene-d12	240	24.987	24.987	(1.000)	438434	40.0000	
78 Chrysene	228	25.029	25.029	(1.002)	747619	60.0000	60.8
79 Bis(2-ethylhexyl)phthalate	149	25.184	25.184	(1.008)	557162	60.0000	60.8
80 Di-n-octyl phthalate	149	26.064	26.064	(1.043)	957780	60.0000	60.2
81 Benzo(b)fluoranthene	252	26.571	26.571	(0.978)	822008	60.0000	61.2
82 Benzo(k)fluoranthene	252	26.612	26.612	(0.979)	809093	60.0000	60.8
83 Benzo(a)pyrene	252	27.078	27.078	(0.997)	737076	60.0000	62.3
84 Perylene-d12	264	27.171	27.171	(1.000)	278893	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.272	29.272	(1.171)	830575	60.0000	61.9
86 Dibenz(a,h)anthracene	278	29.303	29.303	(1.078)	684984	60.0000	61.5
87 Benzo(g,h,i)perylene	276	29.893	29.893	(1.100)	695605	60.0000	62.6

644

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Date : 30-JUN-2003 11:56
Client ID:
Sample Info: SSTD080

Column phase: ZB-5

Instrument: molly.i

Operator: dce
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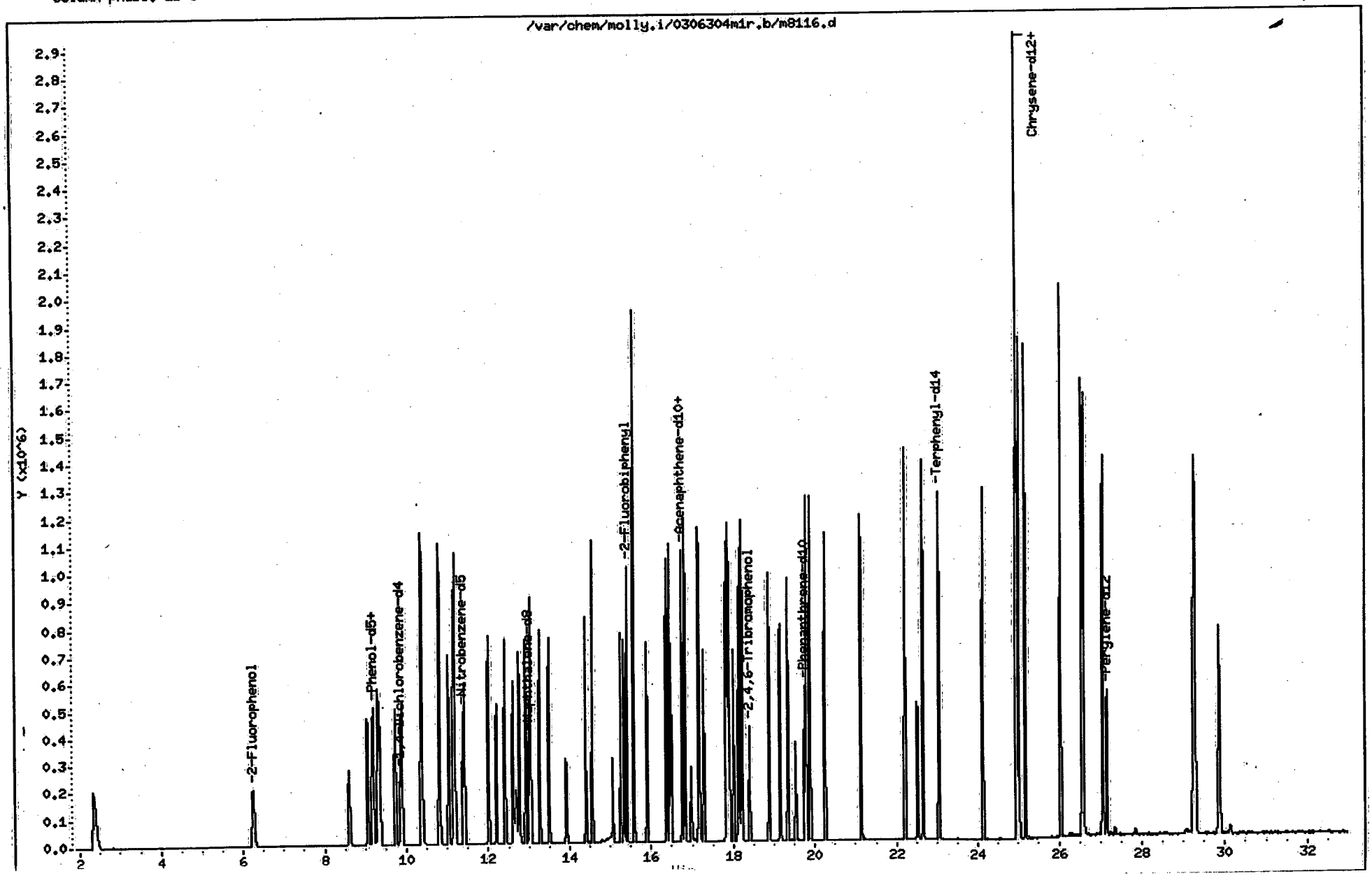

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Ecology & Environment, Inc.

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	Pyridine	79	2.329	2.329	(0.236)	225485	80.0000	80.1
2	N-Nitrosodimethylamine	74	2.308	2.308	(0.234)	158815	80.0000	81.2
3	2-Fluorophenol	112	6.252	6.252	(0.634)	191936	80.0000	80.7
4	Benzaldehyde	77	8.601	8.601	(0.873)	158649	80.0000	70.3
5	Aniline	93	9.067	9.067	(0.920)	387585	80.0000	81.1
6	Phenol-d5	99	9.170	9.170	(0.931)	275080	80.0000	80.4
7	Phenol	94	9.201	9.201	(0.934)	316683	80.0000	82.1
8	Bis(2-chloroethyl)ether	93	9.305	9.305	(0.944)	250669	80.0000	82.4
9	2-Chlorophenol	128	9.367	9.367	(0.951)	216842	80.0000	81.4
10	1,3-Dichlorobenzene	146	9.740	9.740	(0.988)	239404	80.0000	80.2
11	1,4-Dichlorobenzene-d4	152	9.853	9.853	(1.000)	75494	40.0000	
12	1,4-Dichlorobenzene	146	9.895	9.895	(1.004)	245469	80.0000	80.7
13	Benzyl alcohol	108	10.381	10.381	(1.054)	164145	80.0000	81.2
14	1,2-Dichlorobenzene	146	10.392	10.392	(1.055)	241452	80.0000	82.4
15	2-Methylphenol	108	10.806	10.806	(1.097)	222963	80.0000	82.2
16	2,2'-Oxybis(1-chloropropane)	45	10.806	10.806	(1.097)	336948	80.0000	80.4
17	Acetophenone	105	11.033	11.033	(1.120)	371924	80.0000	81.4
18	4-Methylphenol	108	11.189	11.189	(1.135)	238890	80.0000	80.7
19	N-Nitrosodi-n-propylamine	70	11.137	11.137	(1.130)	223047	80.0000	80.8
20	Hexachloroethane	117	11.168	11.168	(1.133)	112857	80.0000	82.1
s 21	Nitrobenzene-d5	82	11.385	11.385	(0.876)	300423	80.0000	81.3
22	Nitrobenzene	77	11.427	11.427	(0.879)	343020	80.0000	81.1
23	Isophorone	82	12.006	12.006	(0.924)	567607	80.0000	80.3
24	2-Nitrophenol	139	12.203	12.203	(0.939)	118480	80.0000	80.5
25	2,4-Dimethylphenol	107	12.410	12.410	(0.955)	275043	80.0000	80.9
26	Bis(2-chloroethoxy)methane	93	12.607	12.607	(0.970)	304329	80.0000	80.7

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27 Benzoic acid	122	12.689	12.689	(0.976)	126077	80.0000	79.4
28 2,4-Dichlorophenol	162	12.762	12.762	(0.982)	187288	80.0000	80.2
29 1,2,4-Trichlorobenzene	180	12.927	12.927	(0.994)	210572	80.0000	79.4
30 Naphthalene-d8	136	13.000	13.000	(1.000)	271696	40.0000	
31 Naphthalene	128	13.041	13.041	(1.003)	645713	80.0000	81.7
32 4-Chloroaniline	127	13.269	13.269	(1.021)	272912	80.0000	80.3
33 Hexachlorobutadiene	225	13.497	13.497	(1.038)	160313	80.0000	81.1
34 Caprolactam	113	13.931	13.931	(1.072)	71328	80.0000	80.1
35 4-chloro-3-methylphenol	107	14.408	14.408	(1.108)	240515	80.0000	78.6
36 2-Methylnaphthalene	141	14.563	14.563	(1.120)	375867	80.0000	80.1
37 Hexachlorocyclopentadiene	237	15.070	15.070	(0.899)	76287	80.0000	77.8
38 2,4,6-Trichlorophenol	196	15.256	15.256	(0.910)	150580	80.0000	78.8
39 2,4,5-Trichlorophenol	196	15.339	15.339	(0.915)	172449	80.0000	79.5
40 2-Fluorobiphenyl	172	15.411	15.411	(0.919)	469736	80.0000	80.6
41 2-Chloronaphthalene	162	15.577	15.577	(0.929)	436899	80.0000	79.8
42 Biphenyl	154	15.587	15.587	(0.930)	560749	80.0000	80.4
43 2-Nitroaniline	65	15.898	15.898	(0.948)	209077	80.0000	79.3
44 Dimethyl phthalate	163	16.374	16.374	(0.977)	570879	80.0000	81.4
45 Acenaphthylene	152	16.446	16.446	(0.981)	705123	80.0000	80.1
46 2,6-Dinitrotoluene	165	16.498	16.498	(0.984)	125613	80.0000	82.1
47 Acenaphthene-d10	164	16.767	16.767	(1.000)	172166	40.0000	
48 3-Nitroaniline	138	16.757	16.757	(0.999)	126137	80.0000	79.6
49 Acenaphthene	153	16.829	16.829	(1.004)	440213	80.0000	79.6
50 2,4-Dinitrophenol	184	16.985	16.985	(1.013)	60542	80.0000	76.5
51 4-Nitrophenol	109	17.181	17.181	(1.025)	104432	80.0000	78.6
52 Dibenzofuran	168	17.161	17.161	(1.023)	635684	80.0000	79.7
53 2,4-Dinitrotoluene	165	17.295	17.295	(1.031)	176192	80.0000	80.1
54 Diethyl phthalate	149	17.833	17.833	(1.064)	606237	80.0000	80.7
55 Fluorene	166	17.864	17.864	(1.065)	513208	80.0000	79.3
56 4-Chlorophenyl phenyl ether	204	17.906	17.906	(1.068)	281044	80.0000	79.5
57 4-Nitroaniline	138	18.009	18.009	(1.074)	127566	80.0000	79.3
58 4,6-Dinitro-2-methylphenol	198	18.113	18.113	(0.917)	106716	80.0000	78.1
59 N-Nitrosodiphenylamine	169	18.165	18.165	(0.920)	404058	80.0000	80.8
60 2,4,6-Tribromophenol	330	18.403	18.403	(1.098)	63042	80.0000	80.1
61 4-Bromophenyl phenyl ether	248	18.879	18.879	(0.956)	167300	80.0000	81.8
62 Hexachlorobenzene	284	19.158	19.158	(0.970)	175401	80.0000	81.7
63 Atrazine	200	19.344	19.344	(0.980)	184428	80.0000	79.5
64 Pentachlorophenol	266	19.531	19.531	(0.989)	65335	80.0000	80.1
* 65 Phenanthrene-d10	188	19.748	19.748	(1.000)	338259	40.0000	
66 Phenanthrene	178	19.800	19.800	(1.003)	811268	80.0000	81.7
67 Anthracene	178	19.883	19.883	(1.007)	831465	80.0000	80.9
68 Carbazole	167	20.245	20.245	(1.025)	736016	80.0000	81.0
69 Di-n-butyl phthalate	149	21.135	21.135	(1.070)	1045247	80.0000	81.9
70 Fluoranthene	202	22.211	22.211	(1.125)	990644	80.0000	81.7
71 Benzidine	184	22.532	22.532	(0.902)	319025	80.0000	72.2
72 Pyrene	202	22.657	22.657	(0.907)	978178	80.0000	79.5
$ 73 Terphenyl-d14	244	23.050	23.050	(0.923)	602944	80.0000	77.9

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	24.126	24.126	(0.966)	493563	80.0000	79.8
75 Benzo(a)anthracene	228	24.954	24.954	(0.999)	1027206	80.0000	78.7
76 3,3'-Dichlorobenzidine	252	24.954	24.954	(0.999)	341710	80.0000	76.2
77 Chrysene-d12	240	24.975	24.975	(1.000)	446040	40.0000	
78 Chrysene	228	25.016	25.016	(1.002)	989649	80.0000	79.1
79 Bis(2-ethylhexyl)phthalate	149	25.172	25.172	(1.008)	751236	80.0000	80.6
80 Di-n-octyl phthalate	149	26.051	26.051	(1.043)	1321250	80.0000	81.7
81 Benzo(b)fluoranthene	252	26.559	26.559	(0.978)	1105505	80.0000	81.4
82 Benzo(k)fluoranthene	252	26.600	26.600	(0.979)	1080249	80.0000	80.2
83 Benzo(a)pyrene	252	27.066	27.066	(0.997)	977967	80.0000	81.8
84 Perylene-d12	264	27.159	27.159	(1.000)	282020	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.260	29.260	(1.172)	1100645	80.0000	80.6
86 Dibenz(a,h)anthracene	278	29.281	29.281	(1.078)	915024	80.0000	81.3
87 Benzo(g,h,i)perylene	276	29.860	29.860	(1.099)	910699	80.0000	81.0

ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Ecology & Environment, Inc.

Analytical Method: SW8270C

Lab Name: Ecology & Environment, Inc. Contract#:

Instrument ID: molly Initial Cal ID: COMX40

2nd Source ID: m8118 Data File ID: m8118

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	Q
2 N-Nitrosodimethylamine	1.03613	0.95559	0.95559	0.050	7.77360	30.00000	Averaged	
$ 3 2-Fluorophenol	1.25973	1.19988	1.19988	0.050	4.75148	30.00000	Averaged	
4 Benzaldehyde	1.19594	1.23551	1.23551	0.050	-3.30944	30.00000	Averaged	
$ 6 Phenol-d5	1.81231	1.80443	1.80443	0.050	0.43467	30.00000	Averaged	
7 Phenol	2.04354	1.88609	1.88609	0.050	7.70497	30.00000	Averaged	
8 Bis(2-chloroethyl)ether	1.61190	1.42237	1.42237	0.050	11.75847	30.00000	Averaged	
9 2-Chlorophenol	1.41059	1.29101	1.29101	0.050	8.47758	30.00000	Averaged	
10 1,3-Dichlorobenzene	1.58091	1.39705	1.39705	0.050	11.63032	30.00000	Averaged	
12 1,4-Dichlorobenzene	1.61215	1.46321	1.46321	0.050	9.23816	30.00000	Averaged	
13 Benzyl alcohol	1.07116	0.97305	0.97305	0.050	9.15918	30.00000	Averaged	
14 1,2-Dichlorobenzene	1.55207	1.33054	1.33054	0.050	14.27351	30.00000	Averaged	
15 2-Methylphenol	1.43777	1.32432	1.32432	0.050	7.89052	30.00000	Averaged	
16 2,2'-Oxybis(1-chloropropane	2.22118	1.98937	1.98937	0.050	10.43639	30.00000	Averaged	
17 Acetophenone	2.42223	2.09399	2.09399	0.050	13.55107	30.00000	Averaged	
18 4-Methylphenol	1.56850	1.43220	1.43220	0.050	8.68962	30.00000	Averaged	
19 N-Nitrosodi-n-propylamine	1.46187	1.33411	1.33411	0.050	8.73919	30.00000	Averaged	
20 Hexachloroethane	0.72824	0.62032	0.62032	0.050	14.81975	30.00000	Averaged	
$ 21 Nitrobenzene-d5	0.54394	0.55902	0.55902	0.050	-2.77251	30.00000	Averaged	
22 Nitrobenzene	0.62284	0.58341	0.58341	0.050	6.32935	30.00000	Averaged	
23 Isophorone	1.04054	0.96646	0.96646	0.050	7.11936	30.00000	Averaged	
24 2-Nitrophenol	0.21678	0.20383	0.20383	0.050	5.97095	30.00000	Averaged	
25 2,4-Dimethylphenol	0.50060	0.49700	0.49700	0.050	0.71871	30.00000	Averaged	
26 Bis(2-chloroethoxy)methane	0.55497	0.54600	0.54600	0.050	1.61586	30.00000	Averaged	
27 Benzoic acid	0.23361	0.22926	0.22926	0.050	1.86054	30.00000	Averaged	
28 2,4-Dichlorophenol	0.34383	0.33957	0.33957	0.050	1.24088	30.00000	Averaged	
29 1,2,4-Trichlorobenzene	0.39032	0.36240	0.36240	0.050	7.15230	30.00000	Averaged	
31 Naphthalene	1.16290	1.14337	1.14337	0.050	1.67946	30.00000	Averaged	
32 4-Chloroaniline	0.50009	0.47556	0.47556	0.050	4.90393	30.00000	Averaged	
33 Hexachlorobutadiene	0.29085	0.27145	0.27145	0.050	6.67062	30.00000	Averaged	
34 Caprolactam	0.13116	0.12299	0.12299	0.050	6.23454	30.00000	Averaged	
35 4-chloro-3-methylphenol	0.45039	0.44714	0.44714	0.050	0.72148	30.00000	Averaged	
36 2-Methylnaphthalene	0.69045	0.63692	0.63692	0.050	7.75356	30.00000	Averaged	
37 Hexachlorocyclopentadiene 0.22894	62.34982	60.00000	0.20371	0.050	-3.91637	30.00000	Linear	
38 2,4,6-Trichlorophenol	0.44397	0.42408	0.42408	0.050	4.48075	30.00000	Averaged	

M = Summary Compound, $ = Surrogate Compound

ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Ecology & Environment, Inc.

Analytical Method: SW8270C

Lab Name: Ecology & Environment, Inc. Contract#:

Instrument ID: molly Initial Cal ID: COMX40

2nd Source ID: m8118 Data File ID: m8118

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	Q
39 2,4,5-Trichlorophenol	0.50407	0.46742	0.46742	0.050	7.27132	30.00000	Averaged	
$ 40 2-Fluorobiphenyl	1.35455	1.45963	1.45963	0.050	-7.75788	30.00000	Averaged	
41 2-Chloronaphthalene	1.27231	1.17809	1.17809	0.050	7.40534	30.00000	Averaged	
42 Biphenyl	1.61989	1.48451	1.48451	0.050	8.35735	30.00000	Averaged	
43 2-Nitroaniline	0.61251	0.57124	0.57124	0.050	6.73776	30.00000	Averaged	
44 Dimethyl phthalate	1.62978	1.52725	1.52725	0.050	6.29136	30.00000	Averaged	
45 Acenaphthylene	2.04436	2.00338	2.00338	0.050	2.00442	30.00000	Averaged	
46 2,6-Dinitrotoluene	0.35555	0.32573	0.32573	0.050	8.38764	30.00000	Averaged	
48 3-Nitroaniline	0.36790	0.33865	0.33865	0.050	7.95030	30.00000	Averaged	
49 Acenaphthene	1.28436	1.24945	1.24945	0.050	2.71796	30.00000	Averaged	
50 2,4-Dinitrophenol	0.18384	0.13943	0.13943	0.050	24.15702	30.00000	Averaged	
51 4-Nitrophenol	0.30879	0.28211	0.28211	0.050	8.64046	30.00000	Averaged	
52 Dibenzofuran	1.85402	1.74502	1.74502	0.050	5.87882	30.00000	Averaged	
53 2,4-Dinitrotoluene	0.51121	0.48412	0.48412	0.050	5.30064	30.00000	Averaged	
54 Diethyl phthalate	1.74457	1.61814	1.61814	0.050	7.24716	30.00000	Averaged	
55 Fluorene	1.50356	1.44832	1.44832	0.050	3.67421	30.00000	Averaged	
56 4-Chlorophenyl phenyl ether	0.82156	0.77027	0.77027	0.050	6.24302	30.00000	Averaged	
57 4-Nitroaniline	0.37371	0.34979	0.34979	0.050	6.40121	30.00000	Averaged	
58 4,6-Dinitro-2-methylphenol	0.16160	0.15102	0.15102	0.050	6.54466	30.00000	Averaged	
59 N-Nitrosodiphenylamine	0.59135	0.54716	0.54716	0.050	7.47347	30.00000	Averaged	
$ 60 2,4,6-Tribromophenol	0.18290	0.18162	0.18162	0.050	0.70087	30.00000	Averaged	
61 4-Bromophenyl phenyl ether	0.24197	0.23743	0.23743	0.050	1.87530	30.00000	Averaged	
62 Hexachlorobenzene	0.25379	0.23224	0.23224	0.050	8.49144	30.00000	Averaged	
63 Atrazine	0.27435	0.25134	0.25134	0.050	8.38680	30.00000	Averaged	
64 Pentachlorophenol	0.09645	0.08834	0.08834	0.050	8.40248	30.00000	Averaged	
66 Phenanthrene	1.17384	1.12127	1.12127	0.050	4.47850	30.00000	Averaged	
67 Anthracene	1.21471	1.12514	1.12514	0.050	7.37385	30.00000	Averaged	
68 Carbazole	1.07431	0.96851	0.96851	0.050	9.84861	30.00000	Averaged	
69 Di-n-butyl phthalate	1.50869	1.43480	1.43480	0.050	4.89789	30.00000	Averaged	
70 Fluoranthene	1.43355	1.39270	1.39270	0.050	2.84974	30.00000	Averaged	
71 Benzidine	0.39630	0.53233	0.53233	0.050	-34.32520	30.00000	Averaged	*
72 Pyrene	1.10294	1.11662	1.11662	0.050	-1.24030	30.00000	Averaged	
$ 73 Terphenyl-d14	0.69402	0.71931	0.71931	0.050	-3.64407	30.00000	Averaged	
74 Butyl benzyl phthalate	0.55489	0.53464	0.53464	0.050	3.64990	30.00000	Averaged	
75 Benzo(a)anthracene	1.16987	1.16898	1.16898	0.050	0.07578	30.00000	Averaged	
76 3,3'-Dichlorobenzidine	0.40184	0.41235	0.41235	0.050	-2.61444	30.00000	Averaged	

N/A KK 7/22/03

M = Summary Compound, $ = Surrogate Compound

ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Ecology & Environment, Inc.

Analytical Method: SW8270C

Lab Name: Ecology & Environment, Inc. Contract#:

Instrument ID: molly Initial Cal ID: COMX40

2nd Source ID: m8118 Data File ID: m8118

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	Q
78 Chrysene	1.12209	1.05551	1.05551	0.050	5.93349	30.00000	Averaged	
79 Bis(2-ethylhexyl)phthalate	0.83623	0.78397	0.78397	0.050	6.24982	30.00000	Averaged	
80 Di-n-octyl phthalate	1.45045	1.30791	1.30791	0.050	9.82675	30.00000	Averaged	
81 Benzo(b)fluoranthene	1.92536	1.77414	1.77414	0.050	7.85406	30.00000	Averaged	
82 Benzo(k)fluoranthene	1.90987	1.94937	1.94937	0.050	-2.06817	30.00000	Averaged	
83 Benzo(a)pyrene	1.69623	1.56769	1.56769	0.050	7.57782	30.00000	Averaged	
85 Indeno(1,2,3-cd)pyrene	1.22481	1.17693	1.17693	0.050	3.90961	30.00000	Averaged	
86 Dibenz(a,h)anthracene	1.59654	1.54907	1.54907	0.050	2.97367	30.00000	Averaged	
87 Benzo(g,h,i)perylene	1.59362	1.53897	1.53897	0.050	3.42899	30.00000	Averaged	

M = Summary Compound, $ = Surrogate Compound

FORM O-4 Page 3

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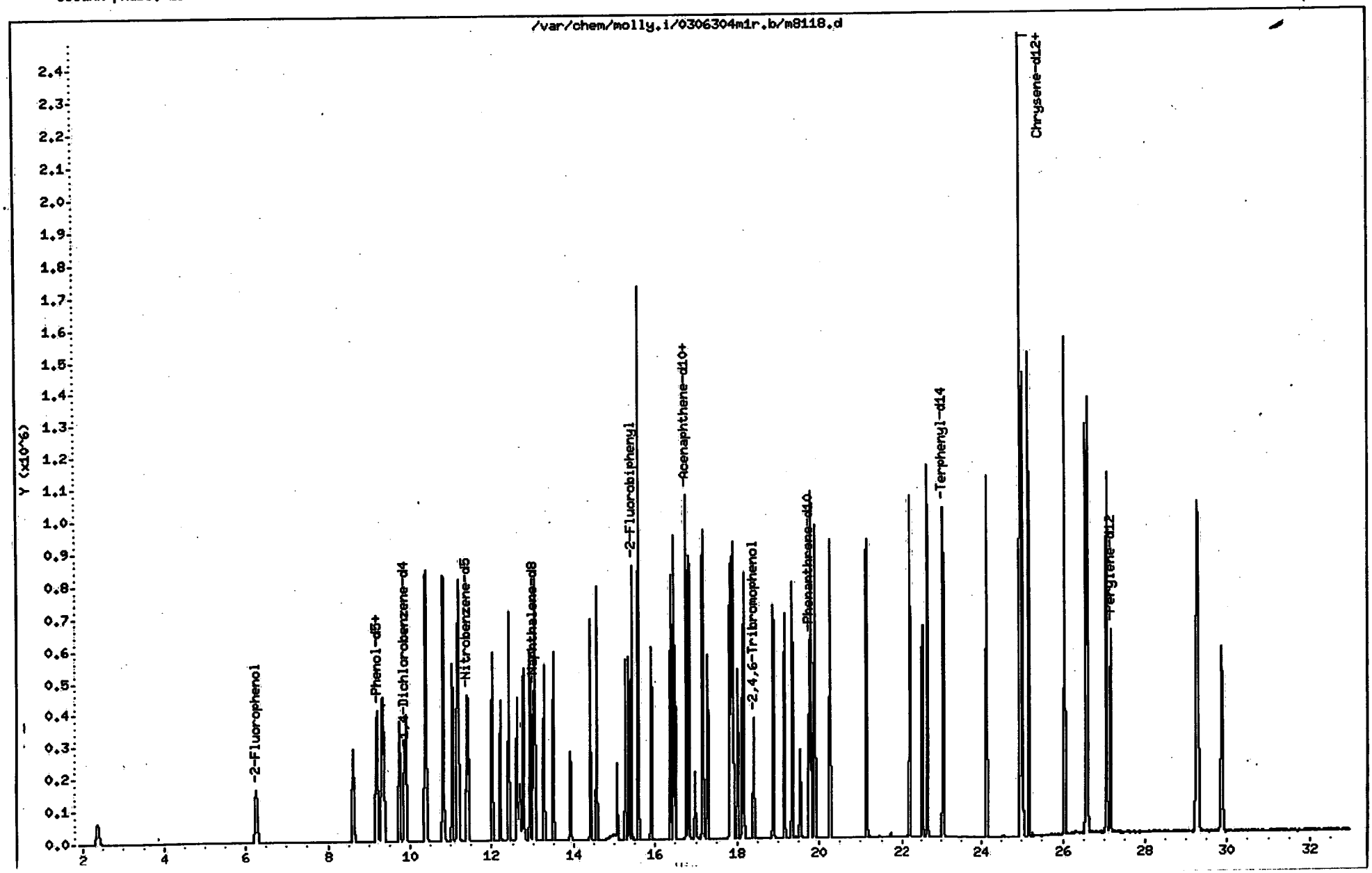
Data File: /var/chem/molly.i/0306304mir.b/m8118.d
Date : 30-JUN-2003 13:18
Client ID:
Sample Info: ICV060

Instrument: molly.i

Operator: doe
Column diameter: 0.25

Column phase: ZB-5



)ata File: /var/chem/molly.i/0306304m1r.b/m8118.d
.eport Date: 30-Jun-2003 15:04

Ecology & Environment, Inc.

)ata file : /var/chem/molly.i/0306304m1r.b/m8118.d
.ab Smp Id: ICV060
:nj Date : 30-JUN-2003 13:15
)perator : dce Inst ID: molly.i
;mp Info : ICV060
Iisc Info : 0306304m1r;comx40;{},, 2ul inj 1653-2-9
:omment :
Iethod : /var/chem/molly.i/0306304m1r.b/comx40.m
Ieth Date : 30-Jun-2003 15:04 dennis Quant Type: ISTD
:al Date : 30-JUN-2003 11:56 Cal File: m8116.d
\ls bottle: 1 Continuing Calibration Sample
)il Factor: 1.00000
:ntegrator: HP RTE Compound Sublist: all.sub
:arget Version: 3.50
?rocessing Host: chemsrv2

:ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
2 N-Nitrosodimethylamine	74	2.360	2.360	(0.239)	127562	60.0000	55.3
3 2-Fluorophenol	112	6.262	6.262	(0.635)	160173	60.0000	57.1
4 Benzaldehyde	77	8.611	8.611	(0.873)	164930	60.0000	62.0
6 Phenol-d5	99	9.170	9.170	(0.930)	240875	60.0000	59.7
7 Phenol	94	9.201	9.201	(0.933)	251776	60.0000	55.4
8 Bis(2-chloroethyl)ether	93	9.305	9.305	(0.943)	189873	60.0000	52.9
9 2-Chlorophenol	128	9.377	9.377	(0.951)	172338	60.0000	54.9
10 1,3-Dichlorobenzene	146	9.739	9.739	(0.987)	186493	60.0000	53.0
11 1,4-Dichlorobenzene-d4	152	9.864	9.864	(1.000)	88994	40.0000	
12 1,4-Dichlorobenzene	146	9.905	9.905	(1.004)	195326	60.0000	54.4
13 Benzyl alcohol	108	10.392	10.392	(1.054)	129893	60.0000	54.5
14 1,2-Dichlorobenzene	146	10.402	10.402	(1.055)	177615	60.0000	51.4
15 2-Methylphenol	108	10.816	10.816	(1.097)	176785	60.0000	55.3
16 2,2'-Oxybis(1-chloropropane)	45	10.806	10.806	(1.095)	265563	60.0000	53.7
17 Acetophenone	105	11.033	11.033	(1.119)	279529	60.0000	51.9
18 4-Methylphenol	108	11.189	11.189	(1.134)	191186	60.0000	54.8
19 N-Nitrosodi-n-propylamine	70	11.147	11.147	(1.130)	178092	60.0000	54.8
20 Hexachloroethane	117	11.178	11.178	(1.133)	82807	60.0000	51.1
21 Nitrobenzene-d5	82	11.385	11.385	(0.876)	256975	60.0000	61.7
22 Nitrobenzene	77	11.427	11.427	(0.879)	268188	60.0000	56.2
23 Isophorone	82	12.006	12.006	(0.924)	444270	60.0000	55.7
24 2-Nitrophenol	139	12.203	12.203	(0.939)	93700	60.0000	56.4
25 2,4-Dimethylphenol	107	12.420	12.420	(0.955)	228464	60.0000	59.6
26 Bis(2-chloroethoxy)methane	93	12.606	12.606	(0.970)	250990	60.0000	59.0
27 Benzoic acid	122	12.689	12.689	(0.976)	105388	60.0000	58.9
28 2,4-Dichlorophenol	162	12.772	12.772	(0.982)	156094	60.0000	59.2

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
29 1,2,4-Trichlorobenzene	180	12.927	12.927	(0.994)	166590	60.0000	55.7
30 Naphthalene-d8	136	13.000	13.000	(1.000)	306458	40.0000	
31 Naphthalene	128	13.041	13.041	(1.003)	525593	60.0000	59.0
32 4-Chloroaniline	127	13.279	13.279	(1.021)	218610	60.0000	57.0
33 Hexachlorobutadiene	225	13.497	13.497	(1.038)	124783	60.0000	56.0
34 Caprolactam	113	13.921	13.921	(1.071)	56535	60.0000	56.2
35 4-chloro-3-methylphenol	107	14.407	14.407	(1.108)	205543	60.0000	59.6
36 2-Methylnaphthalene	141	14.563	14.563	(1.120)	292782	60.0000	55.3
37 Hexachlorocyclopentadiene	237	15.070	15.070	(0.899)	59969	60.0000	62.3
38 2,4,6-Trichlorophenol	196	15.266	15.266	(0.910)	124839	60.0000	57.3
39 2,4,5-Trichlorophenol	196	15.339	15.339	(0.915)	137598	60.0000	55.6
40 2-Fluorobiphenyl	172	15.422	15.422	(0.920)	429684	60.0000	64.6
41 2-Chloronaphthalene	162	15.587	15.587	(0.930)	346803	60.0000	55.6
42 Biphenyl	154	15.587	15.587	(0.930)	437008	60.0000	55.0
43 2-Nitroaniline	65	15.898	15.898	(0.948)	168161	60.0000	56.0
44 Dimethyl phthalate	163	16.374	16.374	(0.977)	449588	60.0000	56.2
45 Acenaphthylene	152	16.446	16.446	(0.981)	589751	60.0000	58.8
46 2,6-Dinitrotoluene	165	16.498	16.498	(0.984)	95887	60.0000	55.0
47 Acenaphthene-d10	164	16.767	16.767	(1.000)	196252	40.0000	
48 3-Nitroaniline	138	16.757	16.757	(0.999)	99691	60.0000	55.2
49 Acenaphthene	153	16.840	16.840	(1.004)	367810	60.0000	58.4
50 2,4-Dinitrophenol	184	16.985	16.985	(1.013)	41045	60.0000	45.5
51 4-Nitrophenol	109	17.181	17.181	(1.025)	83046	60.0000	54.8
52 Dibenzofuran	168	17.171	17.171	(1.024)	513696	60.0000	56.5
53 2,4-Dinitrotoluene	165	17.295	17.295	(1.031)	142513	60.0000	56.8
54 Diethyl phthalate	149	17.833	17.833	(1.064)	476345	60.0000	55.6
55 Fluorene	166	17.864	17.864	(1.065)	426353	60.0000	57.8
56 4-Chlorophenyl phenyl ether	204	17.906	17.906	(1.068)	226750	60.0000	56.2
57 4-Nitroaniline	138	18.020	18.020	(1.075)	102971	60.0000	56.2
58 4,6-Dinitro-2-methylphenol	198	18.113	18.113	(0.917)	87765	60.0000	56.1
59 N-Nitrosodiphenylamine	169	18.165	18.165	(0.919)	317971	60.0000	55.5
60 2,4,6-Tribromophenol	330	18.403	18.403	(1.098)	53465	60.0000	59.6
61 4-Bromophenyl phenyl ether	248	18.889	18.889	(0.956)	137979	60.0000	58.9
62 Hexachlorobenzene	284	19.158	19.158	(0.970)	134961	60.0000	54.9
63 Atrazine	200	19.344	19.344	(0.979)	146064	60.0000	55.0
64 Pentachlorophenol	266	19.541	19.541	(0.989)	51339	60.0000	55.0
65 Phenanthrene-d10	188	19.758	19.758	(1.000)	387422	40.0000	
66 Phenanthrene	178	19.800	19.800	(1.002)	651606	60.0000	57.3
67 Anthracene	178	19.893	19.893	(1.007)	653858	60.0000	55.6
68 Carbazole	167	20.255	20.255	(1.025)	562831	60.0000	54.1
69 Di-n-butyl phthalate	149	21.145	21.145	(1.070)	833807	60.0000	57.1
70 Fluoranthene	202	22.222	22.222	(1.125)	809344	60.0000	58.3
71 Benzidine	184	22.532	22.532	(0.902)	392134	60.0000	80.6
72 Pyrene	202	22.656	22.656	(0.907)	822534	60.0000	60.7
73 Terphenyl-d14	244	23.050	23.050	(0.923)	529863	60.0000	62.2
74 Butyl benzyl phthalate	149	24.126	24.126	(0.966)	393833	60.0000	57.8
75 Benzo(a)anthracene	228	24.954	24.954	(0.999)	861110	60.0000	60.0

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 3,3'-Dichlorobenzidine	252	24.954	24.954	(0.999)	303748	60.0000	61.6
77 Chrysene-d12	240	24.975	24.975	(1.000)	491087	40.0000	
78 Chrysene	228	25.016	25.016	(1.002)	777519	60.0000	56.4
79 Bis(2-ethylhexyl)phthalate	149	25.172	25.172	(1.008)	577494	60.0000	56.2
80 Di-n-octyl phthalate	149	26.051	26.051	(1.043)	963449	60.0000	54.1
81 Benzo(b)fluoranthene	252	26.558	26.558	(0.978)	823622	60.0000	55.3
82 Benzo(k)fluoranthene	252	26.600	26.600	(0.979)	904973	60.0000	61.2
83 Benzo(a)pyrene	252	27.066	27.066	(0.997)	727782	60.0000	55.4
84 Perylene-d12	264	27.159	27.159	(1.000)	309492	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	29.260	29.260	(1.172)	866959	60.0000	57.6
86 Dibenz(a,h)anthracene	278	29.281	29.281	(1.078)	719136	60.0000	58.2
87 Benzo(g,h,i)perylene	276	29.870	29.870	(1.100)	714450	60.0000	57.9

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307174m1
Column ID: ZB-5
Date Analyzed: 17-JUL-2003
Time Analyzed: 10:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8340

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Pyridine	1.49186	1.66429	1.66429	0.050	-11.55779	100	Averaged
2 N-Nitrosodimethylamine	1.03613	1.10803	1.10803	0.050	-6.93958	100	Averaged
$ 3 2-Fluorophenol	1.25973	1.29940	1.29940	0.050	-3.14876	40.00000	Averaged
4 Benzaldehyde	1.19594	1.42923	1.42923	0.050	-19.50702	100	Averaged
5 Aniline	2.53199	2.64242	2.64242	0.050	-4.36153	100	Averaged
$ 6 Phenol-d5	1.81231	1.91435	1.91435	0.050	-5.63047	40.00000	Averaged
7 Phenol	2.04354	2.19163	2.19163	0.050	-7.24630	20.00000	Averaged
8 Bis(2-chloroethyl)ether	1.61190	1.69477	1.69477	0.050	-5.14093	40.00000	Averaged
9 2-Chlorophenol	1.41059	1.46289	1.46289	0.050	-3.70718	40.00000	Averaged
10 1,3-Dichlorobenzene	1.58091	1.59998	1.59998	0.050	-1.20598	40.00000	Averaged
12 1,4-Dichlorobenzene	1.61215	1.64576	1.64576	0.050	-2.08485	20.00000	Averaged
13 Benzyl alcohol	1.07116	1.05874	1.05874	0.050	1.15887	100	Averaged
14 1,2-Dichlorobenzene	1.55207	1.53516	1.53516	0.050	1.08984	40.00000	Averaged
15 2-Methylphenol	1.43777	1.45412	1.45412	0.050	-1.13704	40.00000	Averaged
16 2,2'-Oxybis(1-chloropropane	2.22118	2.18207	2.18207	0.050	1.76090	100	Averaged
17 Acetophenone	2.42223	2.43071	2.43071	0.050	-0.35032	100	Averaged
18 4-Methylphenol	1.56850	1.56810	1.56810	0.050	0.02520	40.00000	Averaged
19 N-Nitrosodi-n-propylamine	1.46187	1.48929	1.48929	0.050	-1.87573	40.00000	Averaged
20 Hexachloroethane	0.72824	0.72780	0.72780	0.050	0.06100	40.00000	Averaged
$ 21 Nitrobenzene-d5	0.54394	0.57527	0.57527	0.050	-5.75905	40.00000	Averaged
22 Nitrobenzene	0.62284	0.60819	0.60819	0.050	2.35114	40.00000	Averaged
23 Isophorone	1.04054	1.05679	1.05679	0.050	-1.56193	40.00000	Averaged
24 2-Nitrophenol	0.21678	0.20999	0.20999	0.050	3.13113	20.00000	Averaged
25 2,4-Dimethylphenol	0.50060	0.49527	0.49527	0.050	1.06389	40.00000	Averaged
26 Bis(2-chloroethoxy)methane	0.55497	0.55642	0.55642	0.050	-0.26188	40.00000	Averaged
27 Benzoic acid	0.23361	0.19776	0.19776	0.050	15.34598	100	Averaged
28 2,4-Dichlorophenol	0.34383	0.34391	0.34391	0.050	-0.02305	20.00000	Averaged
29 1,2,4-Trichlorobenzene	0.39032	0.38924	0.38924	0.050	0.27488	40.00000	Averaged
31 Naphthalene	1.16290	1.16097	1.16097	0.050	0.16574	40.00000	Averaged
32 4-Chloroaniline	0.50009	0.45430	0.45430	0.050	9.15512	100	Averaged
33 Hexachlorobutadiene	0.29085	0.28047	0.28047	0.050	3.57151	20.00000	Averaged
34 Caprolactam	0.13116	0.13621	0.13621	0.050	-3.84647	100	Averaged
35 4-chloro-3-methylphenol	0.45039	0.45197	0.45197	0.050	-0.35211	20.00000	Averaged
36 2-Methylnaphthalene	0.69045	0.67347	0.67347	0.050	2.45982	40.00000	Averaged
37 Hexachlorocyclopentadiene	42.22751	50.00000	0.10117	0.050	15.54498	100	Linear
38 2,4,6-Trichlorophenol	0.44397	0.45381	0.45381	0.050	-2.21706	20.00000	Averaged

M = Summary Compound, $ = Surrogate Compound

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307174m1
Column ID: ZB-5
Date Analyzed: 17-JUL-2003
Time Analyzed: 10:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8340

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
39 2,4,5-Trichlorophenol	0.50407	0.48950	0.48950	0.050	2.89175	40.00000	Averaged
$ 40 2-Fluorobiphenyl	1.35455	1.42004	1.42004	0.050	-4.83478	40.00000	Averaged
41 2-Chloronaphthalene	1.27231	1.27698	1.27698	0.050	-0.36744	40.00000	Averaged
42 Biphenyl	1.61989	1.63244	1.63244	0.050	-0.77428	100	Averaged
43 2-Nitroaniline	0.61251	0.60979	0.60979	0.050	0.44434	100	Averaged
44 Dimethyl phthalate	1.62978	1.67108	1.67108	0.050	-2.53375	100	Averaged
45 Acenaphthylene	2.04436	2.00459	2.00459	0.050	1.94506	40.00000	Averaged
46 2,6-Dinitrotoluene	0.35555	0.35012	0.35012	0.050	1.52820	40.00000	Averaged
48 3-Nitroaniline	0.36790	0.37740	0.37740	0.050	-2.58283	100	Averaged
49 Acenaphthene	1.28436	1.32853	1.32853	0.050	-3.43940	20.00000	Averaged
50 2,4-Dinitrophenol	0.18384	0.18775	0.18775	0.050	-2.12882	100	Averaged
51 4-Nitrophenol	0.30879	0.28436	0.28436	0.050	7.91084	100	Averaged
52 Dibenzofuran	1.85402	1.82958	1.82958	0.050	1.31812	40.00000	Averaged
53 2,4-Dinitrotoluene	0.51121	0.51113	0.51113	0.050	0.01626	40.00000	Averaged
54 Diethyl phthalate	1.74457	1.80627	1.80627	0.050	-3.53647	100	Averaged
55 Fluorene	1.50356	1.51059	1.51059	0.050	-0.46771	40.00000	Averaged
56 4-Chlorophenyl phenyl ether	0.82156	0.83108	0.83108	0.050	-1.15897	40.00000	Averaged
57 4-Nitroaniline	0.37371	0.37346	0.37346	0.050	0.06687	100	Averaged
58 4,6-Dinitro-2-methylphenol	0.16160	0.16145	0.16145	0.050	0.09040	100	Averaged
59 N-Nitrosodiphenylamine	0.59135	0.58856	0.58856	0.050	0.47231	20.00000	Averaged
$ 60 2,4,6-Tribromophenol	0.18290	0.19586	0.19586	0.050	-7.08489	100	Averaged
61 4-Bromophenyl phenyl ether	0.24197	0.24035	0.24035	0.050	0.66973	40.00000	Averaged
62 Hexachlorobenzene	0.25379	0.24997	0.24997	0.050	1.50478	40.00000	Averaged
63 Atrazine	0.27435	0.27490	0.27490	0.050	-0.19760	100	Averaged
64 Pentachlorophenol	0.09645	0.09767	0.09767	0.050	-1.26995	20.00000	Averaged
66 Phenanthrene	1.17384	1.17022	1.17022	0.050	0.30831	40.00000	Averaged
67 Anthracene	1.21471	1.21808	1.21808	0.050	-0.27702	40.00000	Averaged
68 Carbazole	1.07431	1.09480	1.09480	0.050	-1.90730	100	Averaged
69 Di-n-butyl phthalate	1.50869	1.52774	1.52774	0.050	-1.26270	100	Averaged
70 Fluoranthene	1.43355	1.46139	1.46139	0.050	-1.94211	20.00000	Averaged
71 Benzidine	0.39630	0.38784	0.38784	0.050	2.13647	100	Averaged
72 Pyrene	1.10294	1.10026	1.10026	0.050	0.24298	40.00000	Averaged
$ 73 Terphenyl-d14	0.69402	0.73689	0.73689	0.050	-6.17820	40.00000	Averaged
74 Butyl benzyl phthalate	0.55489	0.54525	0.54525	0.050	1.73720	100	Averaged
75 Benzo(a)anthracene	1.16987	1.19710	1.19710	0.050	-2.32780	40.00000	Averaged
76 3,3'-Dichlorobenzidine	0.40184	0.43479	0.43479	0.050	-8.19849	100	Averaged

M = Summary Compound, $ = Surrogate Compound

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307174m1
Column ID: ZB-5
Date Analyzed: 17-JUL-2003
Time Analyzed: 10:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8340

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Chrysene	1.12209	1.12528	1.12528	0.050	-0.28494	40.00000	Averaged
79 Bis(2-ethylhexyl)phthalate	0.83623	0.81096	0.81096	0.050	3.02237	100	Averaged
80 Di-n-octyl phthalate	1.45045	1.43515	1.43515	0.050	1.05436	20.00000	Averaged
81 Benzo(b)fluoranthene	1.92536	2.13910	2.13910	0.050	-11.10129	40.00000	Averaged
82 Benzo(k)fluoranthene	1.90987	1.87473	1.87473	0.050	1.84011	40.00000	Averaged
83 Benzo(a)pyrene	1.69623	1.69744	1.69744	0.050	-0.07169	20.00000	Averaged
85 Indeno(1,2,3-cd)pyrene	1.22481	1.20351	1.20351	0.050	1.73886	40.00000	Averaged
86 Dibenz(a,h)anthracene	1.59654	1.59131	1.59131	0.050	0.32752	40.00000	Averaged
87 Benzo(g,h,i)perylene	1.59362	1.58258	1.58258	0.050	0.69285	40.00000	Averaged

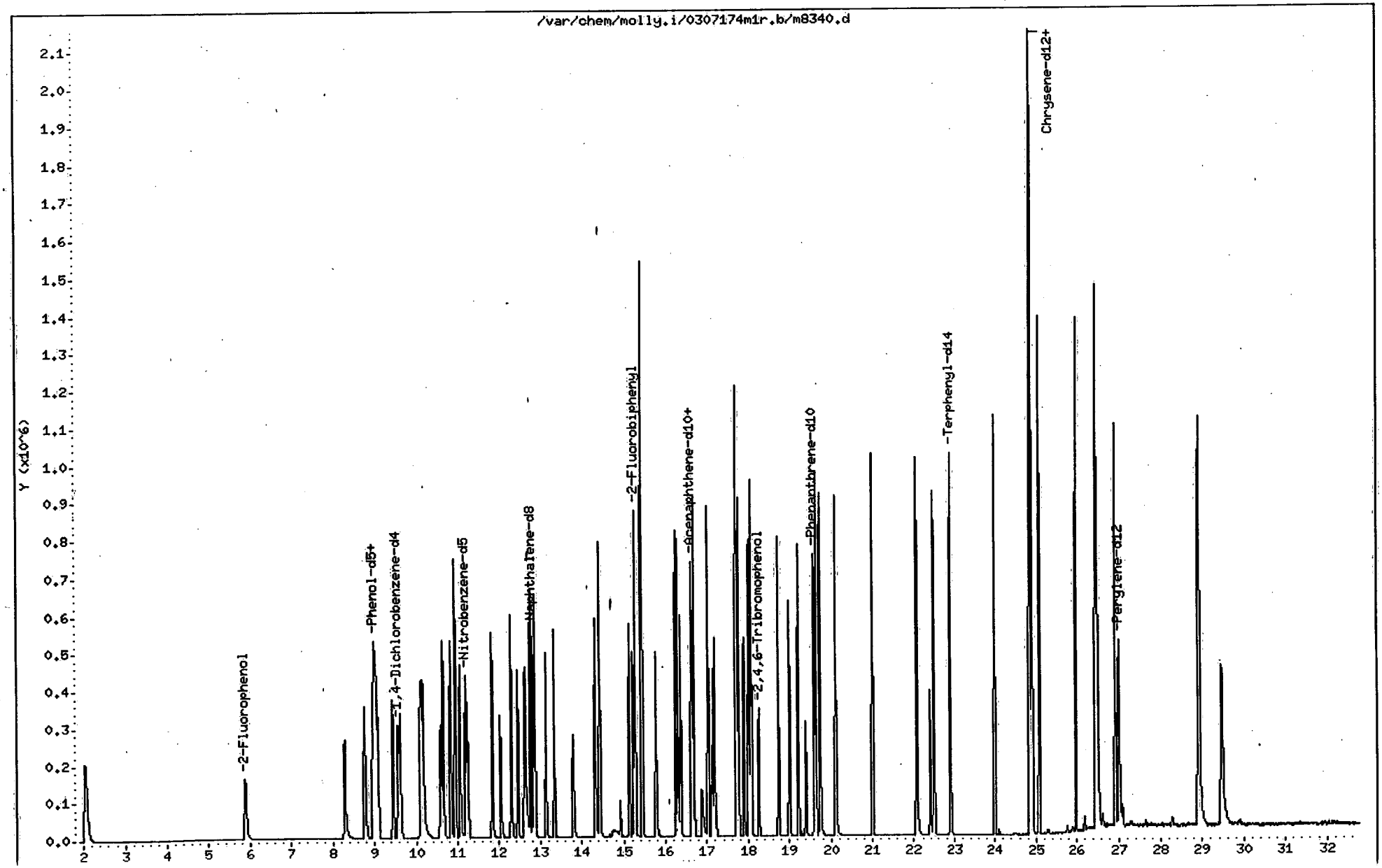
M = Summary Compound, $ = Surrogate Compound

Data File: /var/chem/molly.i/0307174m1r.b/m8340.d
Date : 17-JUL-2003 10:37
Client ID:
Sample Info: SSTD050

Instrument: molly.i

Operator: doe
Column diameter: 0.25

Column phase: ZB-5



Ecology & Environment, Inc.

ata file : /var/chem/molly.i/0307174m1r.b/m8340.d
ab Smp Id: SSTD050
nj Date : 17-JUL-2003 10:37
perator : dce Inst ID: molly.i
mp Info : SSTD050
isc Info : 0307174m1r;comx40;{},, 2ul inj 1653-5-18
omment :
ethod : /var/chem/molly.i/0307174m1r.b/comx40.m
eth Date : 17-Jul-2003 12:31 dennis Quant Type: ISTD
al Date : 30-JUN-2003 11:56 Cal File: m8116.d
ls bottle: 1 Continuing Calibration Sample
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.50
rocessing Host: chemsrv2

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
ompounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
1 Pyridine	79	2.060	2.060	(0.215)	206879	50.0000	55.8
2 N-Nitrosodimethylamine	74	2.039	2.039	(0.213)	137734	50.0000	53.5
3 2-Fluorophenol	112	5.879	5.879	(0.615)	161522	50.0000	51.6
4 Benzaldehyde	77	8.291	8.291	(0.867)	177660	50.0000	59.8
5 Aniline	93	8.767	8.767	(0.917)	328466	50.0000	52.2
6 Phenol-d5	99	8.964	8.964	(0.937)	237963	50.0000	52.8
7 Phenol	94	8.995	8.995	(0.940)	272430	50.0000	53.6
8 Bis(2-chloroethyl)ether	93	9.015	9.015	(0.943)	210668	50.0000	52.6
9 2-Chlorophenol	128	9.077	9.077	(0.949)	181844	50.0000	51.8
10 1,3-Dichlorobenzene	146	9.440	9.440	(0.987)	198885	50.0000	50.6
11 1,4-Dichlorobenzene-d4	152	9.564	9.564	(1.000)	99444	40.0000	
12 1,4-Dichlorobenzene	146	9.616	9.616	(1.005)	204576	50.0000	51.0
13 Benzyl alcohol	108	10.175	10.175	(1.064)	131607	50.0000	49.4
14 1,2-Dichlorobenzene	146	10.143	10.143	(1.061)	190828	50.0000	49.4
15 2-Methylphenol	108	10.651	10.651	(1.114)	180754	50.0000	50.6
16 2,2'-Oxybis(1-chloropropane)	45	10.599	10.599	(1.108)	271242	50.0000	49.1
17 Acetophenone	105	10.827	10.827	(1.132)	302150	50.0000	50.2
18 4-Methylphenol	108	11.054	11.054	(1.156)	194923	50.0000	50.0
19 N-Nitrosodi-n-propylamine	70	10.951	10.951	(1.145)	185126	50.0000	50.9
20 Hexachloroethane	117	10.940	10.940	(1.144)	90469	50.0000	50.0
21 Nitrobenzene-d5	82	11.189	11.189	(0.872)	263580	50.0000	52.9
22 Nitrobenzene	77	11.230	11.230	(0.876)	278666	50.0000	48.8
23 Isophorone	82	11.831	11.831	(0.923)	484210	50.0000	50.8
24 2-Nitrophenol	139	12.038	12.038	(0.939)	96215	50.0000	48.4
25 2,4-Dimethylphenol	107	12.296	12.296	(0.959)	226927	50.0000	49.5
26 Bis(2-chloroethoxy)methane	93	12.462	12.462	(0.972)	254946	50.0000	50.1

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
27 Benzoic acid	122	12.627	12.627	(0.985)	90610	50.0000	42.3
28 2,4-Dichlorophenol	162	12.638	12.638	(0.985)	157576	50.0000	50.0
29 1,2,4-Trichlorobenzene	180	12.762	12.762	(0.995)	178346	50.0000	49.9
30 Naphthalene-d8	136	12.824	12.824	(1.000)	366550	40.0000	
31 Naphthalene	128	12.876	12.876	(1.004)	531944	50.0000	49.9
32 4-Chloroaniline	127	13.135	13.135	(1.024)	208156	50.0000	45.4
33 Hexachlorobutadiene	225	13.342	13.342	(1.040)	128506	50.0000	48.2
34 Caprolactam	113	13.797	13.797	(1.076)	62409	50.0000	51.9
35 4-chloro-3-methylphenol	107	14.315	14.315	(1.116)	207088	50.0000	50.2
36 2-Methylnaphthalene	141	14.418	14.418	(1.124)	308574	50.0000	48.8
37 Hexachlorocyclopentadiene	237	14.915	14.915	(0.897)	28577	50.0000	42.2
38 2,4,6-Trichlorophenol	196	15.132	15.132	(0.910)	128187	50.0000	51.1
39 2,4,5-Trichlorophenol	196	15.225	15.225	(0.916)	138266	50.0000	48.6
40 2-Fluorobiphenyl	172	15.277	15.277	(0.919)	401113	50.0000	52.4
41 2-Chloronaphthalene	162	15.432	15.432	(0.928)	360704	50.0000	50.2
42 Biphenyl	154	15.443	15.443	(0.929)	461108	50.0000	50.4
43 2-Nitroaniline	65	15.774	15.774	(0.949)	172245	50.0000	49.8
44 Dimethyl phthalate	163	16.250	16.250	(0.978)	472023	50.0000	51.3
45 Acenaphthylene	152	16.302	16.302	(0.981)	566230	50.0000	49.0
46 2,6-Dinitrotoluene	165	16.364	16.364	(0.984)	98896	50.0000	49.2
47 Acenaphthene-d10	164	16.623	16.623	(1.000)	225973	40.0000	
48 3-Nitroaniline	138	16.643	16.643	(1.001)	106603	50.0000	51.3
49 Acenaphthene	153	16.685	16.685	(1.004)	375265	50.0000	51.7
50 2,4-Dinitrophenol	184	16.881	16.881	(1.016)	53034	50.0000	51.1
51 4-Nitrophenol	109	17.119	17.119	(1.030)	80322	50.0000	46.0
52 Dibenzofuran	168	17.016	17.016	(1.024)	516794	50.0000	49.3
53 2,4-Dinitrotoluene	165	17.171	17.171	(1.033)	144377	50.0000	50.0
54 Diethyl phthalate	149	17.699	17.699	(1.065)	510210	50.0000	51.8
55 Fluorene	166	17.720	17.720	(1.066)	426692	50.0000	50.2
56 4-Chlorophenyl phenyl ether	204	17.761	17.761	(1.068)	234752	50.0000	50.6
57 4-Nitroaniline	138	17.896	17.896	(1.077)	105491	50.0000	50.0
58 4,6-Dinitro-2-methylphenol	198	17.989	17.989	(0.918)	91829	50.0000	50.0
59 N-Nitrosodiphenylamine	169	18.030	18.030	(0.920)	334750	50.0000	49.8
60 2,4,6-Tribromophenol	330	18.258	18.258	(1.098)	55324	50.0000	53.5
61 4-Bromophenyl phenyl ether	248	18.734	18.734	(0.956)	136701	50.0000	49.7
62 Hexachlorobenzene	284	19.003	19.003	(0.970)	142173	50.0000	49.2
63 Atrazine	200	19.210	19.210	(0.980)	156350	50.0000	50.1
64 Pentachlorophenol	266	19.396	19.396	(0.990)	55552	50.0000	50.6
65 Phenanthrene-d10	188	19.593	19.593	(1.000)	455010	40.0000	
66 Phenanthrene	178	19.645	19.645	(1.003)	665577	50.0000	49.8
67 Anthracene	178	19.738	19.738	(1.007)	692798	50.0000	50.1
68 Carbazole	167	20.111	20.111	(1.026)	622682	50.0000	51.0
69 Di-n-butyl phthalate	149	21.001	21.001	(1.072)	868921	50.0000	50.6
70 Fluoranthene	202	22.056	22.056	(1.126)	831186	50.0000	51.0
71 Benzidine	184	22.388	22.388	(0.900)	278667	50.0000	48.9
72 Pyrene	202	22.491	22.491	(0.905)	790554	50.0000	49.9
73 Terphenyl-d14	244	22.895	22.895	(0.921)	529471	50.0000	53.1

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	23.992	23.992	(0.965)	391775	50.0000	49.1
75 Benzo(a)anthracene	228	24.841	24.841	(0.999)	860140	50.0000	51.2
76 3,3'-Dichlorobenzidine	252	24.851	24.851	(1.000)	312402	50.0000	54.1
77 Chrysene-d12	240	24.861	24.861	(1.000)	574814	40.0000	
78 Chrysene	228	24.913	24.913	(1.002)	808536	50.0000	50.1
79 Bis(2-ethylhexyl)phthalate	149	25.089	25.089	(1.009)	582686	50.0000	48.5
80 Di-n-octyl phthalate	149	25.990	25.990	(1.045)	1031182	50.0000	49.5
81 Benzo(b)fluoranthene	252	26.455	26.455	(0.980)	953106	50.0000	55.6
82 Benzo(k)fluoranthene	252	26.486	26.486	(0.981)	835314	50.0000	49.1
83 Benzo(a)pyrene	252	26.911	26.911	(0.997)	756322	50.0000	50.0
84 Perylene-d12	264	27.004	27.004	(1.000)	356452	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	28.908	28.908	(1.163)	864745	50.0000	49.1
86 Dibenz(a,h)anthracene	278	28.919	28.919	(1.071)	709034	50.0000	49.8
87 Benzo(g,h,i)perylene	276	29.457	29.457	(1.091)	705141	50.0000	49.6

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307184m1
Column ID: ZB-5
Date Analyzed: 18-JUL-2003
Time Analyzed: 13:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8361

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Pyridine	1.49186	1.61969	1.61969	0.050	-8.56865	100	Averaged
2 N-Nitrosodimethylamine	1.03613	1.06200	1.06200	0.050	-2.49668	100	Averaged
$ 3 2-Fluorophenol	1.25973	1.26427	1.26427	0.050	-0.35973	40.00000	Averaged
4 Benzaldehyde	1.19594	1.44189	1.44189	0.050	-20.56578	100	Averaged
5 Aniline	2.53199	2.52181	2.52181	0.050	0.40208	100	Averaged
$ 6 Phenol-d5	1.81231	2.01607	2.01607	0.050	-11.24334	40.00000	Averaged
7 Phenol	2.04354	2.06600	2.06600	0.050	-1.09905	20.00000	Averaged
8 Bis(2-chloroethyl)ether	1.61190	1.59736	1.59736	0.050	0.90191	40.00000	Averaged
9 2-Chlorophenol	1.41059	1.46590	1.46590	0.050	-3.92081	40.00000	Averaged
10 1,3-Dichlorobenzene	1.58091	1.64155	1.64155	0.050	-3.83594	40.00000	Averaged
12 1,4-Dichlorobenzene	1.61215	1.63258	1.63258	0.050	-1.26739	20.00000	Averaged
13 Benzyl alcohol	1.07116	1.02703	1.02703	0.050	4.11990	100	Averaged
14 1,2-Dichlorobenzene	1.55207	1.55453	1.55453	0.050	-0.15833	40.00000	Averaged
15 2-Methylphenol	1.43777	1.47025	1.47025	0.050	-2.25936	40.00000	Averaged
16 2,2'-Oxybis(1-chloropropane	2.22118	2.20847	2.20847	0.050	0.57222	100	Averaged
17 Acetophenone	2.42223	2.47713	2.47713	0.050	-2.26668	100	Averaged
18 4-Methylphenol	1.56850	1.54566	1.54566	0.050	1.45583	40.00000	Averaged
19 N-Nitrosodi-n-propylamine	1.46187	1.51478	1.51478	0.050	-3.61944	40.00000	Averaged
20 Hexachloroethane	0.72824	0.73937	0.73937	0.050	-1.52785	40.00000	Averaged
$ 21 Nitrobenzene-d5	0.54394	0.56093	0.56093	0.050	-3.12301	40.00000	Averaged
22 Nitrobenzene	0.62284	0.65007	0.65007	0.050	-4.37211	40.00000	Averaged
23 Isophorone	1.04054	1.07432	1.07432	0.050	-3.24626	40.00000	Averaged
24 2-Nitrophenol	0.21678	0.21330	0.21330	0.050	1.60527	20.00000	Averaged
25 2,4-Dimethylphenol	0.50060	0.49308	0.49308	0.050	1.50148	40.00000	Averaged
26 Bis(2-chloroethoxy)methane	0.55497	0.57275	0.57275	0.050	-3.20385	40.00000	Averaged
27 Benzoic acid	0.23361	0.08233	0.08233	0.050	64.75588	100	Averaged
28 2,4-Dichlorophenol	0.34383	0.33327	0.33327	0.050	3.07066	20.00000	Averaged
29 1,2,4-Trichlorobenzene	0.39032	0.38982	0.38982	0.050	0.12691	40.00000	Averaged
31 Naphthalene	1.16290	1.16149	1.16149	0.050	0.12181	40.00000	Averaged
32 4-Chloroaniline	0.50009	0.49056	0.49056	0.050	1.90459	100	Averaged
33 Hexachlorobutadiene	0.29085	0.29065	0.29065	0.050	0.06944	20.00000	Averaged
34 Caprolactam	0.13116	0.14087	0.14087	0.050	-7.39855	100	Averaged
35 4-chloro-3-methylphenol	0.45039	0.47027	0.47027	0.050	-4.41428	20.00000	Averaged
36 2-Methylnaphthalene	0.69045	0.71240	0.71240	0.050	-3.17854	40.00000	Averaged
37 Hexachlorocyclopentadiene	43.06591	50.00000	0.10714	0.050	13.86819	100	Linear
38 2,4,6-Trichlorophenol	0.44397	0.45413	0.45413	0.050	-2.28726	20.00000	Averaged

M = Summary Compound, $ = Surrogate Compound

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307184m1
Column ID: ZB-5
Date Analyzed: 18-JUL-2003
Time Analyzed: 13:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8361

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
39 2,4,5-Trichlorophenol	0.50407	0.49313	0.49313	0.050	2.17092	40.00000	Averaged
$ 40 2-Fluorobiphenyl	1.35455	1.38381	1.38381	0.050	-2.16014	40.00000	Averaged
41 2-Chloronaphthalene	1.27231	1.25971	1.25971	0.050	0.98992	40.00000	Averaged
42 Biphenyl	1.61989	1.58509	1.58509	0.050	2.14840	100	Averaged
43 2-Nitroaniline	0.61251	0.61319	0.61319	0.050	-0.11119	100	Averaged
44 Dimethyl phthalate	1.62978	1.65674	1.65674	0.050	-1.65382	100	Averaged
45 Acenaphthylene	2.04436	2.02115	2.02115	0.050	1.13504	40.00000	Averaged
46 2,6-Dinitrotoluene	0.35555	0.35871	0.35871	0.050	-0.88961	40.00000	Averaged
48 3-Nitroaniline	0.36790	0.36733	0.36733	0.050	0.15475	100	Averaged
49 Acenaphthene	1.28436	1.24577	1.24577	0.050	3.00467	20.00000	Averaged
50 2,4-Dinitrophenol	0.18384	0.15586	0.15586	0.050	15.22012	100	Averaged
51 4-Nitrophenol	0.30879	0.30214	0.30214	0.050	2.15411	100	Averaged
52 Dibenzofuran	1.85402	1.82932	1.82932	0.050	1.33182	40.00000	Averaged
53 2,4-Dinitrotoluene	0.51121	0.49909	0.49909	0.050	2.37200	40.00000	Averaged
54 Diethyl phthalate	1.74457	1.74922	1.74922	0.050	-0.26632	100	Averaged
55 Fluorene	1.50356	1.49499	1.49499	0.050	0.57032	40.00000	Averaged
56 4-Chlorophenyl phenyl ether	0.82156	0.82131	0.82131	0.050	0.03059	40.00000	Averaged
57 4-Nitroaniline	0.37371	0.36038	0.36038	0.050	3.56752	100	Averaged
58 4,6-Dinitro-2-methylphenol	0.16160	0.15529	0.15529	0.050	3.90355	100	Averaged
59 N-Nitrosodiphenylamine	0.59135	0.58269	0.58269	0.050	1.46469	20.00000	Averaged
$ 60 2,4,6-Tribromophenol	0.18290	0.18967	0.18967	0.050	-3.70190	100	Averaged
61 4-Bromophenyl phenyl ether	0.24197	0.23325	0.23325	0.050	3.60418	40.00000	Averaged
62 Hexachlorobenzene	0.25379	0.24944	0.24944	0.050	1.71360	40.00000	Averaged
63 Atrazine	0.27435	0.27253	0.27253	0.050	0.66577	100	Averaged
64 Pentachlorophenol	0.09645	0.08271	0.08271	0.050	14.24262	20.00000	Averaged
66 Phenanthrene	1.17384	1.17160	1.17160	0.050	0.19091	40.00000	Averaged
67 Anthracene	1.21471	1.16333	1.16333	0.050	4.23029	40.00000	Averaged
68 Carbazole	1.07431	1.06936	1.06936	0.050	0.46058	100	Averaged
69 Di-n-butyl phthalate	1.50869	1.52318	1.52318	0.050	-0.96076	100	Averaged
70 Fluoranthene	1.43355	1.43555	1.43555	0.050	-0.13952	20.00000	Averaged
71 Benzidine	0.39630	0.30874	0.30874	0.050	22.09580	100	Averaged
72 Pyrene	1.10294	1.09003	1.09003	0.050	1.17046	40.00000	Averaged
$ 73 Terphenyl-d14	0.69402	0.72939	0.72939	0.050	-5.09718	40.00000	Averaged
74 Butyl benzyl phthalate	0.55489	0.55591	0.55591	0.050	-0.18314	100	Averaged
75 Benzo(a)anthracene	1.16987	1.14106	1.14106	0.050	2.46267	40.00000	Averaged
76 3,3'-Dichlorobenzidine	0.40184	0.40979	0.40979	0.050	-1.97801	100	Averaged

M = Summary Compound, $ = Surrogate Compound

Ecology & Environment, Inc.

CONTINUING CALIBRATION SUMMARY REPORT

Job Number: 0307090
Batch Number: 200307184m1
Column ID: ZB-5
Date Analyzed: 18-JUL-2003
Time Analyzed: 13:37
Initial Cal Start Date/Time: 30-JUN-2003 08
Initial Cal End Date/Time: 30-JUN-2003 11

Initial Cal: COMX40
Instrument: molly
Fraction: Semi-VOA
Data File ID: m8361

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Chrysene	1.12209	1.09854	1.09854	0.050	2.09839	40.00000	Averaged
79 Bis(2-ethylhexyl)phthalate	0.83623	0.85645	0.85645	0.050	-2.41810	100	Averaged
80 Di-n-octyl phthalate	1.45045	1.46915	1.46915	0.050	-1.28956	20.00000	Averaged
81 Benzo(b)fluoranthene	1.92536	1.74959	1.74959	0.050	9.12909	40.00000	Averaged
82 Benzo(k)fluoranthene	1.90987	2.19572	2.19572	0.050	-14.96666	40.00000	Averaged
83 Benzo(a)pyrene	1.69623	1.71733	1.71733	0.050	-1.24419	20.00000	Averaged
85 Indeno(1,2,3-cd)pyrene	1.22481	1.21263	1.21263	0.050	0.99445	40.00000	Averaged
86 Dibenz(a,h)anthracene	1.59654	1.65249	1.65249	0.050	-3.50395	40.00000	Averaged
87 Benzo(g,h,i)perylene	1.59362	1.65356	1.65356	0.050	-3.76113	40.00000	Averaged

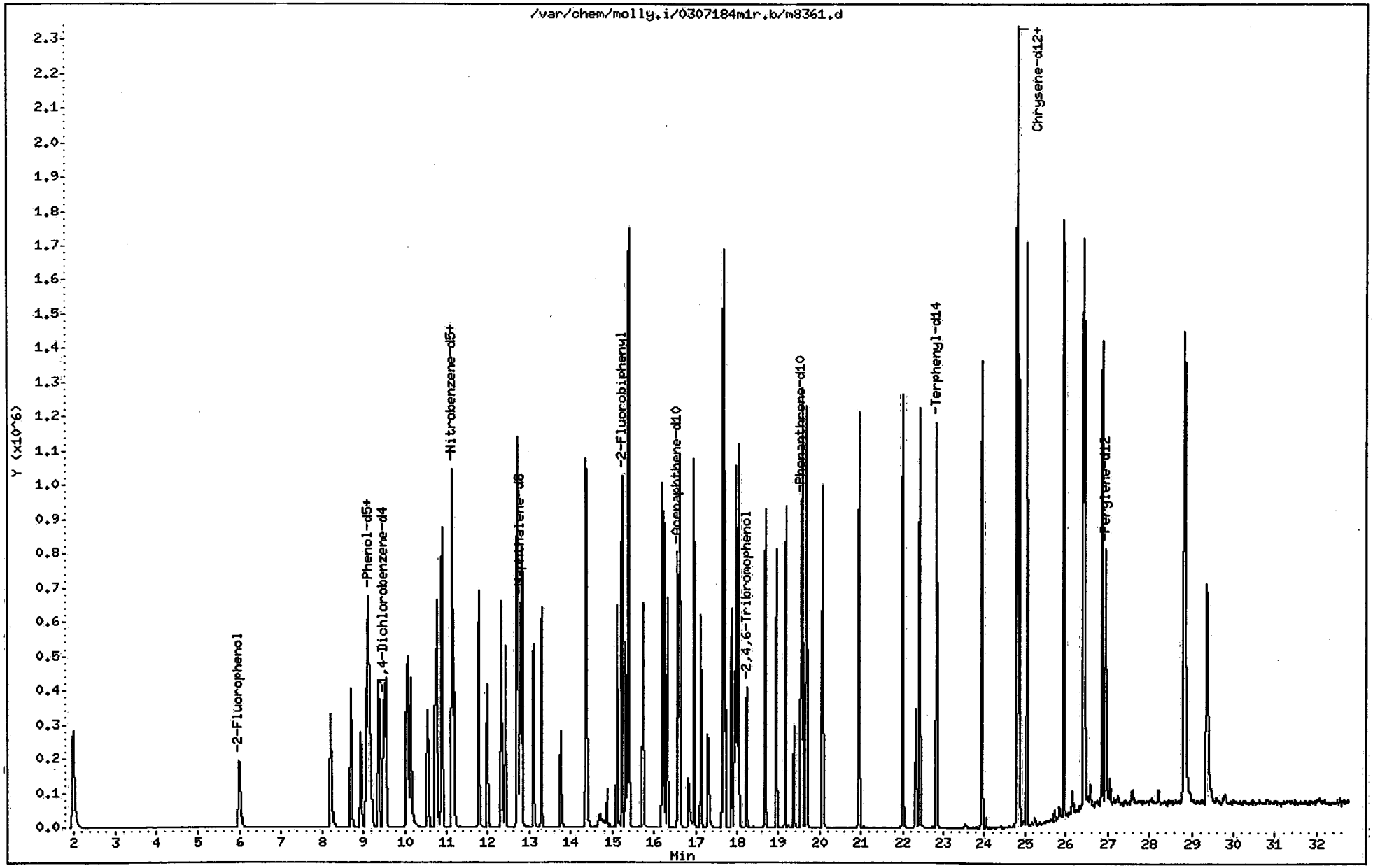
M = Summary Compound, $ = Surrogate Compound

Data File: /var/chem/molly.i/0307184m1r.b/m8361.d
Date : 18-JUL-2003 13:37
Client ID:
Sample Info: SSTD050

Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8361.d
Lab Smp Id: SSTD050
Inj Date : 18-JUL-2003 13:37
Operator : dce Inst ID: molly.i
Smp Info : SSTD050
Misc Info : 0307184m1r;comx40;{},, 2ul inj 1653-5-18
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 18-Jul-2003 15:12 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	1.990	1.990	(0.210)	232118	50.0000	54.3
	2 N-Nitrosodimethylamine	74	1.969	1.969	(0.207)	152195	50.0000	51.2
$	3 2-Fluorophenol	112	5.995	5.995	(0.632)	181182	50.0000	50.2
	4 Benzaldehyde	77	8.210	8.210	(0.865)	206637	50.0000	60.3
	5 Aniline	93	8.697	8.697	(0.916)	361400	50.0000	49.8
$	6 Phenol-d5	99	9.121	9.121	(0.961)	288923	50.0000	55.6
	7 Phenol	94	9.162	9.162	(0.965)	296079	50.0000	50.5
	8 Bis(2-chloroethyl)ether	93	8.945	8.945	(0.942)	228918	50.0000	49.5
	9 2-Chlorophenol	128	9.111	9.111	(0.960)	210078	50.0000	52.0
	10 1,3-Dichlorobenzene	146	9.369	9.369	(0.987)	235251	50.0000	51.9
*	11 1,4-Dichlorobenzene-d4	152	9.494	9.494	(1.000)	114648	40.0000	
	12 1,4-Dichlorobenzene	146	9.545	9.545	(1.005)	233965	50.0000	50.6
	13 Benzyl alcohol	108	10.135	10.135	(1.068)	147183	50.0000	47.9
	14 1,2-Dichlorobenzene	146	10.073	10.073	(1.061)	222780	50.0000	50.1
	15 2-Methylphenol	108	10.736	10.736	(1.131)	210702	50.0000	51.1
	16 2,2'-Oxybis(1-chloropropane)	45	10.539	10.539	(1.110)	316496	50.0000	49.7
	17 Acetophenone	105	10.767	10.767	(1.134)	354998	50.0000	51.1
	18 4-Methylphenol	108	11.129	11.129	(1.172)	221509	50.0000	49.3
	19 N-Nitrosodi-n-propylamine	70	10.891	10.891	(1.147)	217083	50.0000	51.8
	20 Hexachloroethane	117	10.891	10.891	(1.147)	105959	50.0000	50.8
$	21 Nitrobenzene-d5	82	11.129	11.129	(0.871)	290436	50.0000	51.6
	22 Nitrobenzene	77	11.181	11.181	(0.875)	336590	50.0000	52.2
	23 Isophorone	82	11.781	11.781	(0.922)	556259	50.0000	51.6
	24 2-Nitrophenol	139	11.978	11.978	(0.938)	110441	50.0000	49.2
	25 2,4-Dimethylphenol	107	12.319	12.319	(0.964)	255306	50.0000	49.2
	26 Bis(2-chloroethoxy)methane	93	12.412	12.412	(0.972)	296557	50.0000	51.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	27 Benzoic acid	122	12.723	12.723	(0.996)	42630	50.0000	17.6
	28 2,4-Dichlorophenol	162	12.702	12.702	(0.994)	172562	50.0000	48.5
	29 1,2,4-Trichlorobenzene	180	12.713	12.713	(0.995)	201840	50.0000	49.9
*	30 Naphthalene-d8	136	12.775	12.775	(1.000)	414222	40.0000	
	31 Naphthalene	128	12.816	12.816	(1.003)	601391	50.0000	49.9
	32 4-Chloroaniline	127	13.095	13.095	(1.025)	254002	50.0000	49.0
	33 Hexachlorobutadiene	225	13.292	13.292	(1.040)	150493	50.0000	50.0
	34 Caprolactam	113	13.758	13.758	(1.077)	72938	50.0000	53.7
	35 4-chloro-3-methylphenol	107	14.389	14.389	(1.126)	243494	50.0000	52.2
	36 2-Methylnaphthalene	141	14.369	14.369	(1.125)	368863	50.0000	51.6
	37 Hexachlorocyclopentadiene	237	14.876	14.876	(0.898)	36270	50.0000	43.1
	38 2,4,6-Trichlorophenol	196	15.124	15.124	(0.913)	153735	50.0000	51.1
	39 2,4,5-Trichlorophenol	196	15.321	15.321	(0.925)	166939	50.0000	48.9
$	40 2-Fluorobiphenyl	172	15.228	15.228	(0.919)	468461	50.0000	51.1
	41 2-Chloronaphthalene	162	15.383	15.383	(0.929)	426450	50.0000	49.5
	42 Biphenyl	154	15.393	15.393	(0.929)	536601	50.0000	48.9
	43 2-Nitroaniline	65	15.735	15.735	(0.950)	207584	50.0000	50.0
	44 Dimethyl phthalate	163	16.201	16.201	(0.978)	560855	50.0000	50.8
	45 Acenaphthylene	152	16.242	16.242	(0.981)	684221	50.0000	49.4
	46 2,6-Dinitrotoluene	165	16.325	16.325	(0.986)	121435	50.0000	50.4
*	47 Acenaphthene-d10	164	16.563	16.563	(1.000)	270824	40.0000	
	48 3-Nitroaniline	138	16.604	16.604	(1.002)	124352	50.0000	49.9
	49 Acenaphthene	153	16.635	16.635	(1.004)	421729	50.0000	48.5
	50 2,4-Dinitrophenol	184	16.832	16.832	(1.016)	52763	50.0000	42.4
	51 4-Nitrophenol	109	17.298	17.298	(1.044)	102282	50.0000	48.9
	52 Dibenzofuran	168	16.966	16.966	(1.024)	619281	50.0000	49.3
	53 2,4-Dinitrotoluene	165	17.122	17.122	(1.034)	168956	50.0000	48.8
	54 Diethyl phthalate	149	17.650	17.650	(1.066)	592163	50.0000	50.1
	55 Fluorene	166	17.670	17.670	(1.067)	506098	50.0000	49.7
	56 4-Chlorophenyl phenyl ether	204	17.712	17.712	(1.069)	278037	50.0000	50.0
	57 4-Nitroaniline	138	17.857	17.857	(1.078)	122000	50.0000	48.2
	58 4,6-Dinitro-2-methylphenol	198	17.939	17.939	(0.918)	105300	50.0000	48.0
	59 N-Nitrosodiphenylamine	169	17.981	17.981	(0.920)	395109	50.0000	49.3
$	60 2,4,6-Tribromophenol	330	18.219	18.219	(1.100)	64210	50.0000	51.8
	61 4-Bromophenyl phenyl ether	248	18.685	18.685	(0.956)	158160	50.0000	48.2
	62 Hexachlorobenzene	284	18.943	18.943	(0.969)	169139	50.0000	49.1
	63 Atrazine	200	19.171	19.171	(0.981)	184794	50.0000	49.7
	64 Pentachlorophenol	266	19.368	19.368	(0.991)	56084	50.0000	42.9
*	65 Phenanthrene-d10	188	19.544	19.544	(1.000)	542462	40.0000	
	66 Phenanthrene	178	19.585	19.585	(1.002)	794434	50.0000	49.9
	67 Anthracene	178	19.678	19.678	(1.007)	788827	50.0000	47.9
	68 Carbazole	167	20.071	20.071	(1.027)	725111	50.0000	49.8
	69 Di-n-butyl phthalate	149	20.951	20.951	(1.072)	1032837	50.0000	50.5
	70 Fluoranthene	202	21.997	21.997	(1.125)	973416	50.0000	50.1
	71 Benzidine	184	22.338	22.338	(0.900)	265253	50.0000	39.0
	72 Pyrene	202	22.431	22.431	(0.904)	936504	50.0000	49.4
$	73 Terphenyl-d14	244	22.835	22.835	(0.920)	626661	50.0000	52.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Butyl benzyl phthalate	149	23.942	23.942	(0.965)	477614	50.0000	50.1
75 Benzo(a)anthracene	228	24.791	24.791	(0.999)	980350	50.0000	48.8
76 3,3'-Dichlorobenzidine	252	24.812	24.812	(1.000)	352074	50.0000	51.0
* 77 Chrysene-d12	240	24.812	24.812	(1.000)	687325	40.0000	
78 Chrysene	228	24.853	24.853	(1.002)	943818	50.0000	49.0
79 Bis(2-ethylhexyl)phthalate	149	25.040	25.040	(1.009)	735825	50.0000	51.2
80 Di-n-octyl phthalate	149	25.940	25.940	(1.045)	1262229	50.0000	50.6
81 Benzo(b)fluoranthene	252	26.406	26.406	(0.980)	924605	50.0000	45.4
82 Benzo(k)fluoranthene	252	26.437	26.437	(0.981)	1160371	50.0000	57.5
83 Benzo(a)pyrene	252	26.861	26.861	(0.997)	907559	50.0000	50.6
* 84 Perylene-d12	264	26.944	26.944	(1.000)	422776	40.0000	
85 Indeno(1,2,3-cd)pyrene	276	28.817	28.817	(1.161)	1041839	50.0000	49.5
86 Dibenz(a,h)anthracene	278	28.838	28.838	(1.070)	873289	50.0000	51.8
87 Benzo(g,h,i)perylene	276	29.356	29.356	(1.089)	873855	50.0000	51.9

Data File: /var/chem/molly.i/0306304m1r.b/m8110.d

Date : 30-JUN-2003 08:20

Client ID: DFTPP

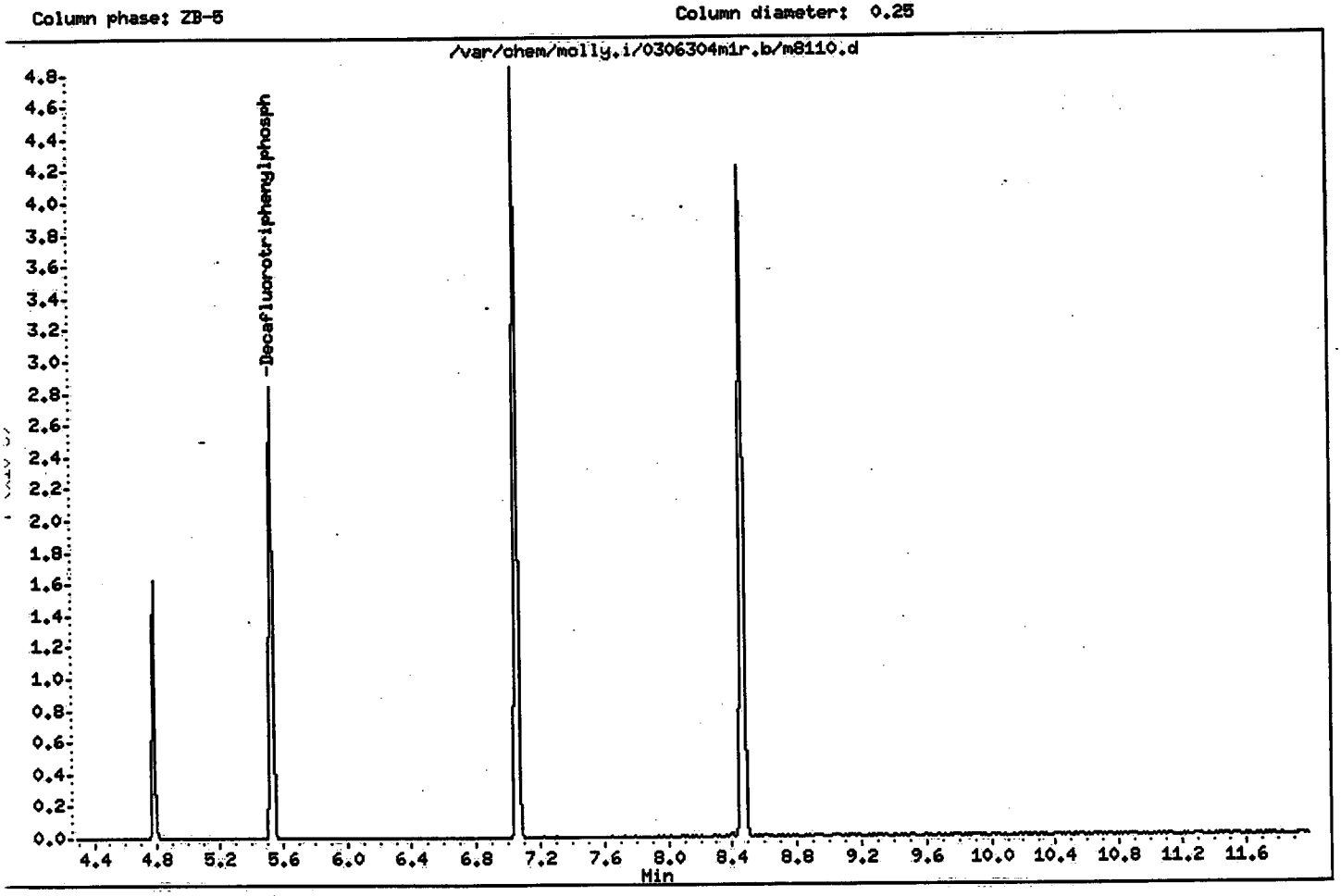
Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: doe

Column phase: ZB-5

Column diameter: 0.25



Data File: /var/chem/molly.i/0306304m1r.b/m8110.d

Date : 30-JUN-2003 08:20

Client ID: DFTPP

Instrument: molly.i

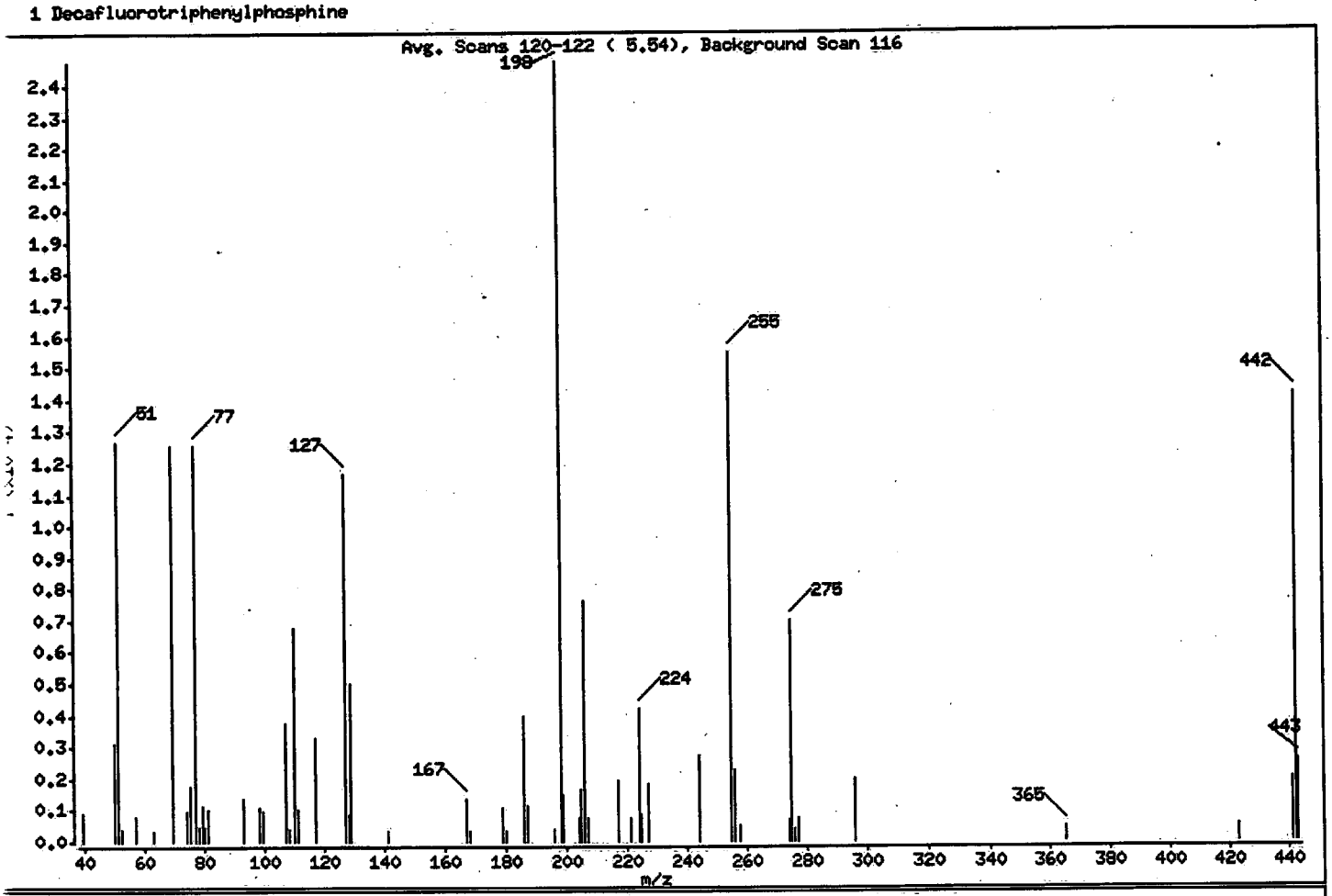
Sample Info: DFTPP 50ng/ul

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.15
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	50.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.16
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.96
275	10.00 - 30.00% of mass 198	28.26
365	Greater than 1.00% of mass 198	1.73
441	Present, but less than mass 443	7.95
442	Greater than 40.00% of mass 198	56.97
443	17.00 - 23.00% of mass 442	10.40 (18.25)

Data File: /var/chem/molly.i/0306304m1r.b/m8110.d

Date : 30-JUN-2003 08:20

Client ID: DFTPP

Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Data File: m8110.d

Spectrum: Avg. Scans 120-122 (5.54), Background Scan 116

Location of Maximum: 198.00

Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	882	98.00	1107	186.00	3978	255.00	15493
50.00	3115	99.00	943	187.00	1132	256.00	2289
51.00	12654	107.00	3772	196.00	389	258.00	522
52.00	409	108.00	373	198.00	24736	274.00	663
57.00	788	110.00	6786	199.00	1476	275.00	6991
63.00	336	111.00	1001	204.00	732	276.00	388
69.00	12551	117.00	3306	205.00	1633	277.00	748
74.00	958	127.00	11666	206.00	7618	296.00	1968
75.00	1738	128.00	865	207.00	750	365.00	428
77.00	12594	129.00	5015	217.00	1944	423.00	490
78.00	474	141.00	334	221.00	715	441.00	1967
79.00	1137	167.00	1362	224.00	4189	442.00	14093
80.00	473	168.00	337	225.00	842	443.00	2572
81.00	1026	179.00	1073	227.00	1816		
93.00	1366	180.00	364	244.00	2717		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SUMMARY RESULTS

DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	51.15		PASS
68	Less than 2% of mass 69	0.00	(0.00)	PASS
69	Mass 69 relative abundance	50.74		PASS
70	Less than 2% of mass 69	0.00	(0.00)	PASS
127	40 - 60% of mass 198	47.16		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	5.96		PASS
275	10 - 30% of mass 198	28.26		PASS
365	Greater than 1% of mass 198	1.73		PASS
441	Present, but less than mass 443	7.95	(76.48)	PASS
442	Greater than 40% of mass 198	56.97		PASS
443	17 - 23% of mass 442	10.40	(18.25)	PASS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.1500000	5.000	PASS
Benzidine	1.3293247	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	134081			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

****

Tuning Sample, /var/chem/molly.i/0306304m1r.b/m8110s.d/m8110s.d,*** PASSED ***

****

Data File: /var/chem/molly.i/0307174m1r.b/m8339.d

Date : 17-JUL-2003 10:21

Client ID: DFTPP

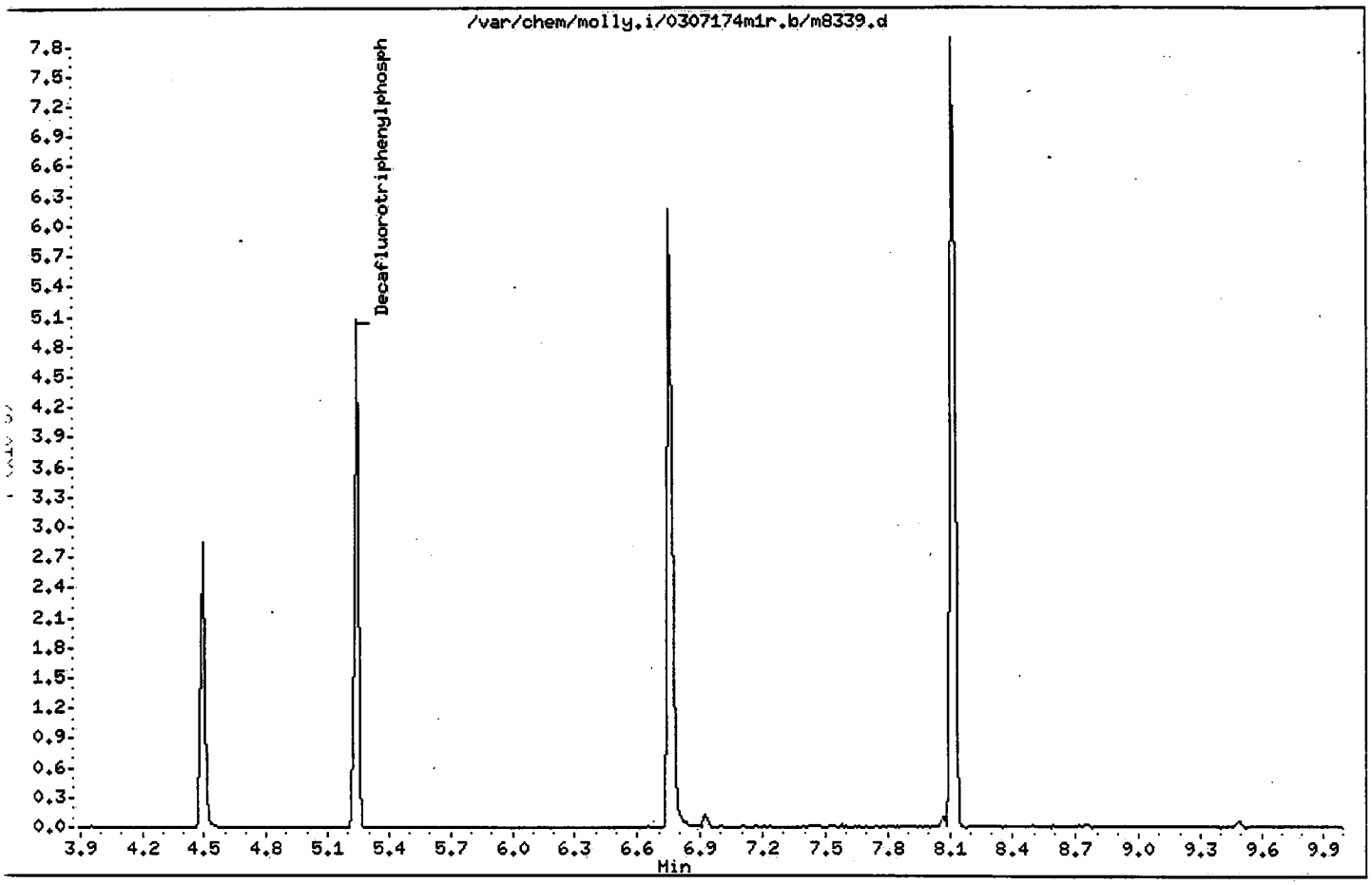
Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: dce

Column phase: ZB-5

Column diameter: 0.25



Data File: /var/chem/molly.i/0307174m1r.b/m8339.d

Date : 17-JUL-2003 10:21

Client ID: DFTPP

Instrument: molly.i

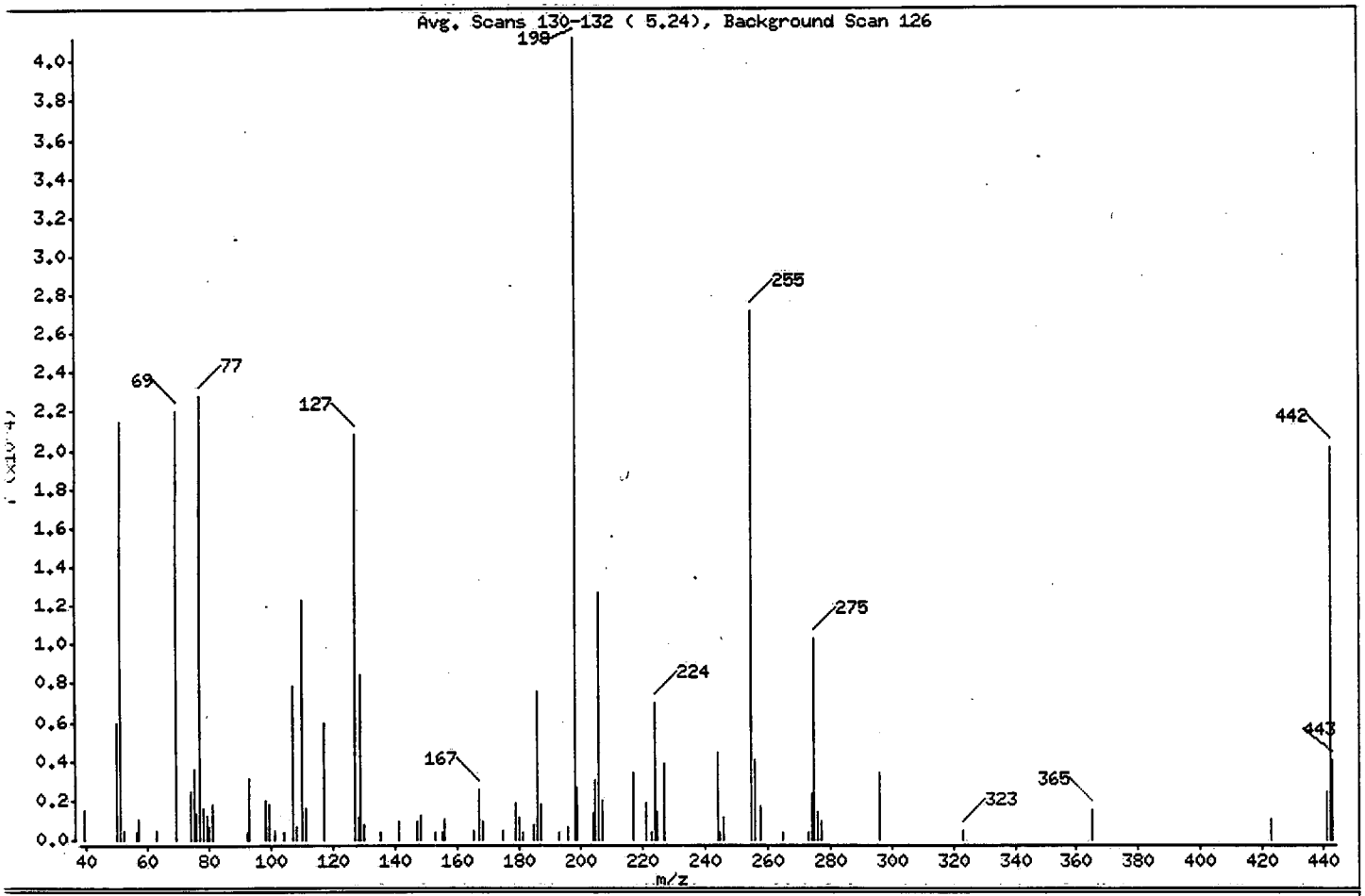
Sample Info: DFTPP 50ng/ul

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	53.52
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.45
275	10.00 - 30.00% of mass 198	25.00
365	Greater than 1.00% of mass 198	3.63
441	Present, but less than mass 443	5.95
442	Greater than 40.00% of mass 198	48.88
443	17.00 - 23.00% of mass 442	9.88 (20.21)

Data File: /var/chem/molly.i/0307174m1r.b/m8339.d

Date : 17-JUL-2003 10:21

Client ID: DFTPP

Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Data File: m8339.d

Spectrum: Avg. Scans 130-132 (5.24), Background Scan 126

Location of Maximum: 198.00

Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1544	104.00	364	179.00	1890	245.00	387
50.00	5916	107.00	7871	180.00	1102	246.00	1090
51.00	21448	108.00	703	181.00	424	255.00	27200
52.00	519	110.00	12318	185.00	800	256.00	4026
56.00	355	111.00	1636	186.00	7554	258.00	1657
57.00	1061	117.00	5971	187.00	1833	265.00	371
63.00	450	127.00	20856	193.00	348	273.00	350
69.00	22024	128.00	1166	196.00	656	274.00	2367
74.00	2461	129.00	8387	198.00	41160	275.00	10288
75.00	3635	130.00	794	199.00	2655	276.00	1403
76.00	1312	135.00	371	204.00	1309	277.00	966
77.00	22800	141.00	917	205.00	3057	296.00	3418
78.00	1562	147.00	978	206.00	12655	323.00	474
79.00	1202	148.00	1277	207.00	2025	365.00	1496
80.00	631	153.00	411	217.00	3406	423.00	1077
81.00	1827	155.00	401	221.00	1867	441.00	2451
92.00	400	156.00	1077	223.00	355	442.00	20112
93.00	3166	165.00	490	224.00	7019	443.00	4065
98.00	1979	167.00	2568	225.00	1381		
99.00	1793	168.00	917	227.00	3903		
101.00	458	175.00	433	244.00	4446		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SUMMARY RESULTS

DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	52.12		PASS
68	Less than 2% of mass 69	0.00	(0.00)	PASS
69	Mass 69 relative abundance	53.52		PASS
70	Less than 2% of mass 69	0.00	(0.00)	PASS
127	40 - 60% of mass 198	50.67		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	6.45		PASS
275	10 - 30% of mass 198	25.00		PASS
365	Greater than 1% of mass 198	3.63		PASS
441	Present, but less than mass 443	5.95	(60.30)	PASS
442	Greater than 40% of mass 198	48.88		PASS
443	17 - 23% of mass 442	9.88	(20.21)	PASS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6565481	5.000	PASS
Benzidine	2.2497452	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	218903			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

****
Tuning Sample, /var/chem/molly.i/0307174m1r.b/m8339s.d/m8339s.d,*** PASSED ***
****

Data File: /var/chem/molly.i/0307184m1r.b/m8360.d

Date : 18-JUL-2003 13:21

Client ID: DFTPP

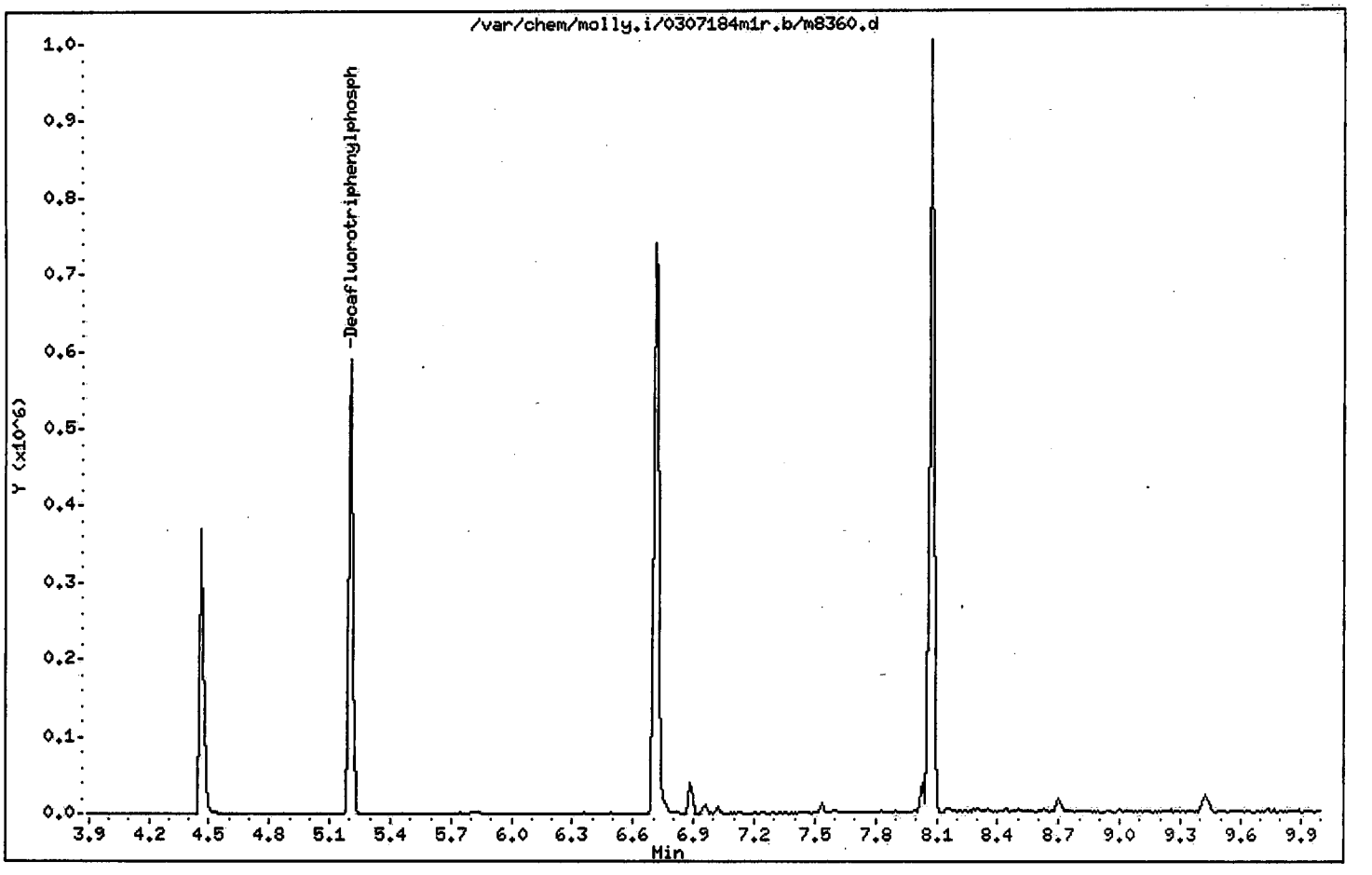
Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: doe

Column phase: ZB-5

Column diameter: 0.25



Data File: /var/chem/molly.i/0307184m1r.b/m8360.d

Date : 18-JUL-2003 13:21

Client ID: DFTPP

Instrument: molly.i

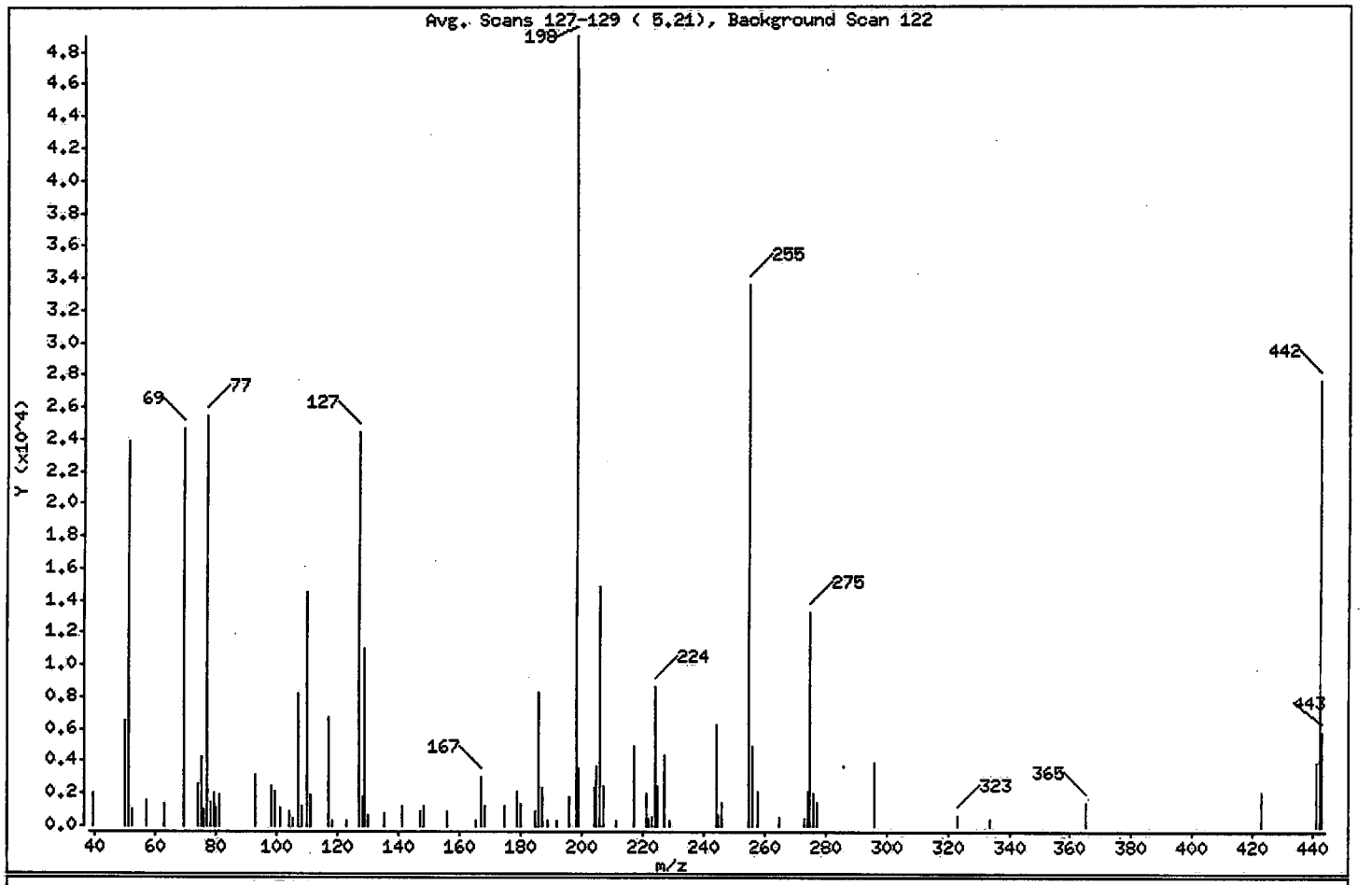
Sample Info: DFTPP 50ng/ul

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

1 Decafluorotriphenylphosphine



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.73
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 100.00% of mass 198	50.38
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.94
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.40
275	10.00 - 30.00% of mass 198	27.19
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	8.07
442	Greater than 40.00% of mass 198	56.42
443	17.00 - 23.00% of mass 442	12.07 (21.38)

Data File: /var/chem/molly.i/0307184m1r.b/m8360.d

Date : 18-JUL-2003 13:21

Client ID: DFTPP

Instrument: molly.i

Sample Info: DFTPP 50ng/ul

Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Data File: m8360.d
Spectrum: Avg. Scans 127-129 (5.21), Background Scan 122
Location of Maximum: 198.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2072	108.00	1207	186.00	8334	246.00	1491
50.00	6544	110.00	14542	187.00	2371	255.00	33600
51.00	23864	111.00	1942	189.00	363	256.00	4914
52.00	992	117.00	6732	192.00	364	258.00	2132
57.00	1561	118.00	343	196.00	1809	265.00	545
63.00	1345	123.00	375	198.00	48984	273.00	502
69.00	24680	127.00	24456	199.00	3626	274.00	2183
74.00	2541	128.00	1811	204.00	2341	275.00	13318
75.00	4333	129.00	11077	205.00	3690	276.00	2007
76.00	1039	130.00	705	206.00	14907	277.00	1448
77.00	25400	135.00	745	207.00	2510	296.00	3987
78.00	1496	141.00	1193	211.00	381	323.00	656
79.00	2082	147.00	912	217.00	4911	334.00	402
80.00	1095	148.00	1258	221.00	1976	365.00	1514
81.00	1929	156.00	861	222.00	409	423.00	2188
93.00	3130	165.00	346	223.00	549	441.00	3955
98.00	2446	167.00	3021	224.00	8726	442.00	27632
99.00	2128	168.00	1188	225.00	2493	443.00	5910
101.00	1168	175.00	1267	227.00	4340		
104.00	888	179.00	2175	229.00	342		
105.00	426	180.00	1305	244.00	6262		
107.00	8206	185.00	927	245.00	682		

DFTPP TUNE/TAILING FACTOR/DEGRADATION SUMMARY RESULTS

DFTPP Ion Abundance/Ratio Criteria Chart

Ion	Abundance Criteria	Base Peak	Other	Test
198	Base Peak, 100% relative abundance	100.00		PASS
51	30 - 60% of mass 198	48.73		PASS
68	Less than 2% of mass 69	0.00	(0.00)	PASS
69	Mass 69 relative abundance	50.38		PASS
70	Less than 2% of mass 69	0.00	(0.00)	PASS
127	40 - 60% of mass 198	49.94		PASS
197	0 - 1% of mass 198	0.00		PASS
199	5 - 9% of mass 198	7.40		PASS
275	10 - 30% of mass 198	27.19		PASS
365	Greater than 1% of mass 198	3.09		PASS
441	Present, but less than mass 443	8.07	(66.92)	PASS
442	Greater than 40% of mass 198	56.42		PASS
443	17 - 23% of mass 442	12.07	(21.38)	PASS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6906130	5.000	PASS
Benzidine	0.8021027	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	267601			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

****
Tuning Sample, /var/chem/molly.i/0307184m1r.b/m8360s.d/m8360s.d,*** PASSED ***
****

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302830 **Sample Type:** MBLK **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	ND		10.00	µg/L	1	7/17/2003 2:03:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		10.00	µg/L	1			
1,2-Dichlorobenzene	ND		10.00	µg/L	1			
1,3-Dichlorobenzene	ND		10.00	µg/L	1			
1,4-Dichlorobenzene	ND		10.00	µg/L	1			
2,2´-Oxybis(1-chloropropane)	ND		10.00	µg/L	1			
2,4,5-Trichlorophenol	ND		25.00	µg/L	1			
2,4,6-Trichlorophenol	ND		10.00	µg/L	1			
2,4-Dichlorophenol	ND		10.00	µg/L	1			
2,4-Dimethylphenol	ND		10.00	µg/L	1			
2,4-Dinitrophenol	ND		25.00	µg/L	1			
2,4-Dinitrotoluene	ND		10.00	µg/L	1			
2,6-Dinitrotoluene	ND		10.00	µg/L	1			
2-Chloronaphthalene	ND		10.00	µg/L	1			
2-Chlorophenol	ND		10.00	µg/L	1			
2-Methylnaphthalene	ND		10.00	µg/L	1			
2-Methylphenol	ND		10.00	µg/L	1			
2-Nitroaniline	ND		25.00	µg/L	1			
2-Nitrophenol	ND		10.00	µg/L	1			
3,3´-Dichlorobenzidine	ND		20.00	µg/L	1			
3-Nitroaniline	ND		25.00	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		25.00	µg/L	1			
4-Bromophenyl phenyl ether	ND		10.00	µg/L	1			
4-Chloro-3-methylphenol	ND		10.00	µg/L	1			
4-Chloroaniline	ND		10.00	µg/L	1			
4-Chlorophenyl phenyl ether	ND		10.00	µg/L	1			
4-Methylphenol	ND		10.00	µg/L	1			
4-Nitroaniline	ND		25.00	µg/L	1			
4-Nitrophenol	ND		25.00	µg/L	1			
Acenaphthene	ND		10.00	µg/L	1			
Acenaphthylene	ND		10.00	µg/L	1			
Acetophenone	ND		10.00	µg/L	1			
Anthracene	ND		10.00	µg/L	1			
Atrazine	ND		10.00	µg/L	1			
Benz(a)anthracene	ND		10.00	µg/L	1			
Benzaldehyde	ND		10.00 OJ	µg/L	1			
Benzo(a)pyrene	ND		10.00	µg/L	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302830 **Sample Type:** MBLK **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		10.00	µg/L	1			
Benzo(g,h,i)perylene	ND		10.00	µg/L	1			
Benzo(k)fluoranthene	ND		10.00	µg/L	1			
Benzoic acid	ND		25.00	µg/L	1			
Benzyl alcohol	ND		10.00	µg/L	1			
Bis(2-chloroethoxy)methane	ND		10.00	µg/L	1			
Bis(2-chloroethyl)ether	ND		10.00	µg/L	1			
Bis(2-ethylhexyl)phthalate	11.86		10.00	µg/L	1			
Butyl benzyl phthalate	ND		10.00	µg/L	1			
Caprolactam	ND		10.00	µg/L	1			
Carbazole	ND		10.00	µg/L	1			
Chrysene	ND		10.00	µg/L	1			
Di-n-butyl phthalate	ND		10.00	µg/L	1			
Di-n-octyl phthalate	ND		10.00	µg/L	1			
Dibenz(a,h)anthracene	ND		10.00	µg/L	1			
Dibenzofuran	ND		10.00	µg/L	1			
Diethyl phthalate	ND		10.00	µg/L	1			
Dimethyl phthalate	ND		10.00	µg/L	1			
Fluoranthene	ND		10.00	µg/L	1			
Fluorene	ND		10.00	µg/L	1			
Hexachlorobenzene	ND		10.00	µg/L	1			
Hexachlorobutadiene	ND		10.00	µg/L	1			
Hexachlorocyclopentadiene	ND		25.00 UJ	µg/L	1			
Hexachloroethane	ND		10.00	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		10.00	µg/L	1			
Isophorone	ND		10.00	µg/L	1			
N-Nitrosodi-n-propylamine	ND		10.00	µg/L	1			
N-Nitrosodimethylamine	ND		10.00	µg/L	1			
N-Nitrosodiphenylamine	ND		10.00	µg/L	1			
Naphthalene	ND		10.00	µg/L	1			
Nitrobenzene	ND		10.00	µg/L	1			
Pentachlorophenol	ND		25.00	µg/L	1			
Phenanthrene	ND		10.00	µg/L	1			
Phenol	ND		10.00	µg/L	1			
Pyrene	ND		10.00	µg/L	1			
Surr:2,4,6-Tribromophenol	108		32 - 162	%REC	1	7/17/2003 2:03:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	103		38 - 129	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302830 **Sample Type:** MBLK **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	95		15 - 142	%REC	1			
Surr:Nitrobenzene-d5	110		45 - 118	%REC	1			
Surr:Phenol-d5	124		18 - 136	%REC	1			
Surr:Terphenyl-d14	147		10 - 154	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: MB-200302830 **Sample Type:** MBLK

Client Sample ID:
Alt. Client ID:
Collection Date:
Matrix: WATER **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3520C_TCL_W

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Date Analyzed	Run Batch ID	Analyst
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.48	46	NJ	µg/L	1	7/17/2003 2:03:00 PM	MOLLY_030717A	DCE
13116-57-9	1-Propene, 1,2,3-trichloro-, (Z)-	5.65	7.49	NJ	µg/L	1			
	Unknown	6.9	5.89	J	µg/L	1			
1809-26-3	2-Pentene, 4-bromo-	7.48	6.92	NJ	µg/L	1			
107-05-1	1-Propene, 3-chloro-	7.63	71.6	NJ	µg/L	1			
21400-25-9	1-Propene, 1,1,2-trichloro-	7.87	229	NJ	µg/L	1			
78-99-9	Propane, 1,1-dichloro-	11.33	3.03	NJ	µg/L	1			
0-00-0	Chlorobenzene-D5 (14.513)	14.51	5.22	NJ	µg/L	1			
0-00-0	1,1,3,3,3-PENTACHLOROPROPANE (15.206)	15.21	9.03	NJ	µg/L	1			
354-21-2	Ethane, 1,2,2-trichloro-1,1-difluoro- (16.252)	16.25	29.8	NJ	µg/L	1			
354-21-2	Ethane, 1,2,2-trichloro-1,1-difluoro- (19.854)	19.85	5.28	NJ	µg/L	1			
21922-69-0	2-Cyclobuten-1-one, 4,4-dimethyl-3-(1-pi	20.26	3.6	NJ	µg/L	1			
354-21-2	Ethane, 1,2,2-trichloro-1,1-difluoro- (20.361)	20.36	8.75	NJ	µg/L	1			
0-00-0	1,1,3,3,3-PENTACHLOROPROPANE (24.366)	24.37	3.66	NJ	µg/L	1			
1675-54-3	Oxirane, 2,2´-((1-methylethylidene)bis(4	26.79	11.4	NJ	µg/L	1			

Number TICs Found: 15

Definitions:

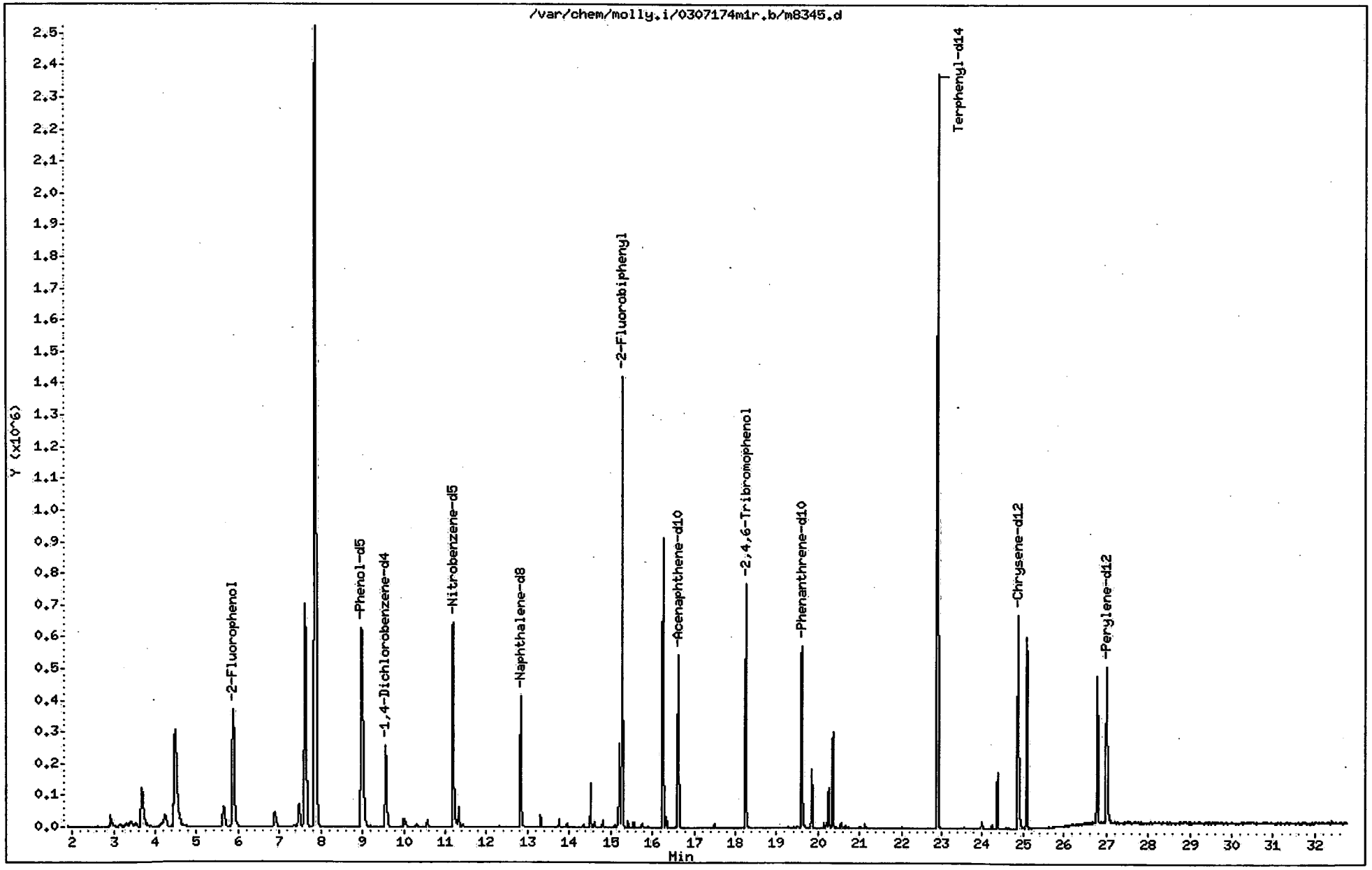
ND - Not Detected at the Reporting Limit
J - Analyte detected below Reporting limits
B - Analyte detected in the associated Method Blank
H - Value exceeds Maximum Contaminant Level
* - Recovery outside limits
R - RPD outside recovery limits
E - Value above quantitation range
Surr - Denotes Surrogate Compound
M -Matrix Spike recovery outside limits
Q - Qualifier
D - Diluted Out
N - Single Column Analysis

685

Data File: /var/chem/molly.i/0307174m1r.b/m8345.d
Date : 17-JUL-2003 14:03
Client ID:
Sample Info: MB-200302830
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8345.d
Lab Smp Id: MB-200302830
Inj Date : 17-JUL-2003 14:03
Operator : dce Inst ID: molly.i
Smp Info : MB-200302830
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,MBLK
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.871	5.879	(0.614)	332331	114.415	57.2
$ 6 Phenol-d5	99	8.986	8.964	(0.939)	619985	148.369	74.2
* 11 1,4-Dichlorobenzene-d4	152	9.566	9.564	(1.000)	92229	40.0000	
$ 21 Nitrobenzene-d5	82	11.191	11.189	(0.872)	501091	109.543	54.8
* 30 Naphthalene-d8	136	12.836	12.824	(1.000)	336387	40.0000	
$ 40 2-Fluorobiphenyl	172	15.279	15.277	(0.920)	736177	103.107	51.6
* 47 Acenaphthene-d10	164	16.614	16.623	(1.000)	210844	40.0000	
$ 60 2,4,6-Tribromophenol	330	18.260	18.258	(1.099)	124996	129.651	64.8
* 65 Phenanthrene-d10	188	19.605	19.593	(1.000)	421815	40.0000	
$ 73 Terphenyl-d14	244	22.897	22.895	(0.921)	1350066	147.475	73.7
* 77 Chrysene-d12	240	24.874	24.861	(1.000)	527626	40.0000	
79 Bis(2-ethylhexyl)phthalate	149	25.081	25.089	(1.008)	261740	23.7289	11.9(a)
* 84 Perylene-d12	264	27.006	27.004	(1.000)	350980	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

Volume Injected (uL): 2.0

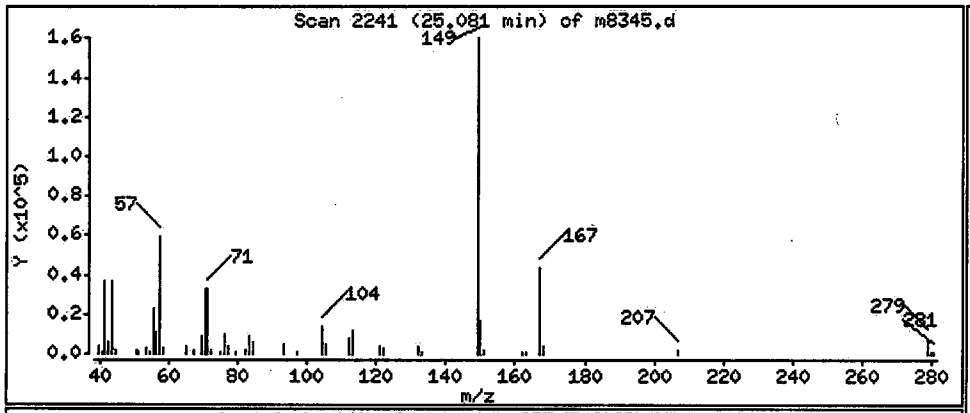
Operator: dce

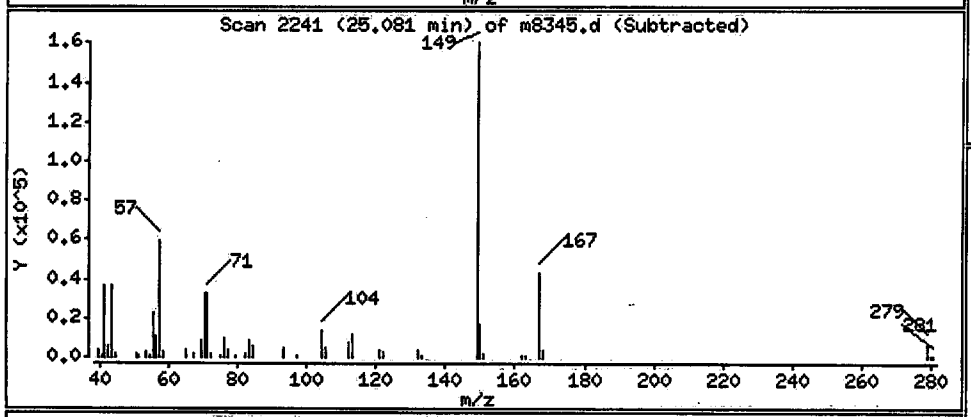
Column phase: ZB-5

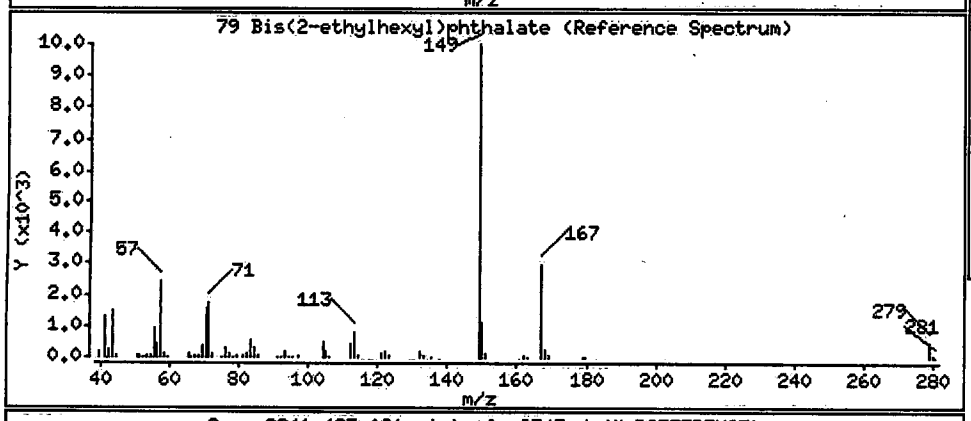
Column diameter: 0.25

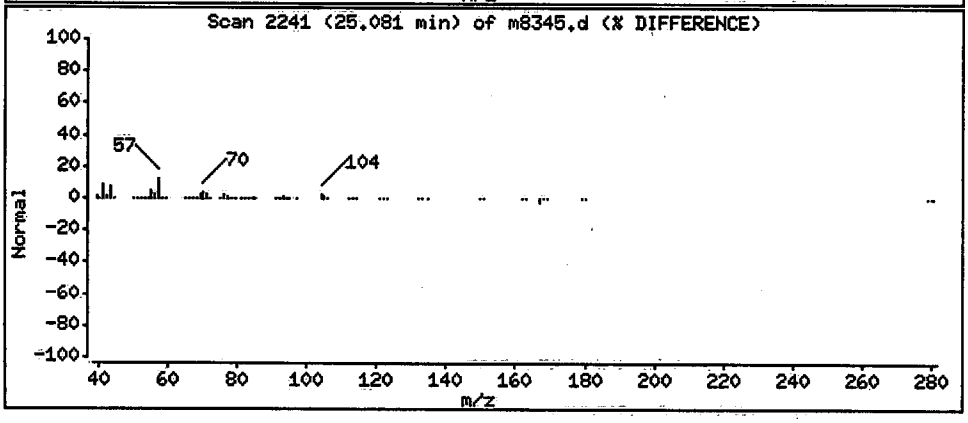
79 Bis(2-ethylhexyl)phthalate

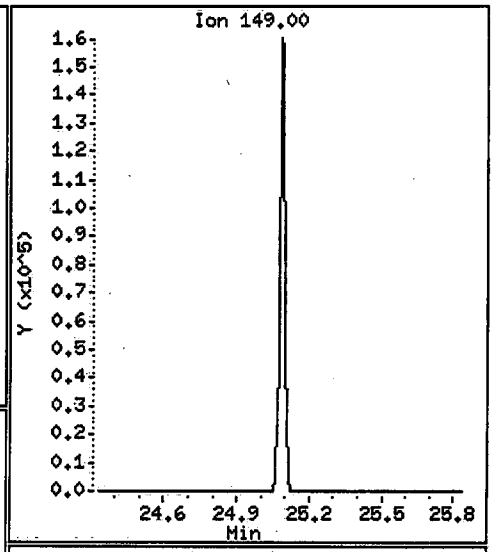
Concentration: 11.9 ug/L

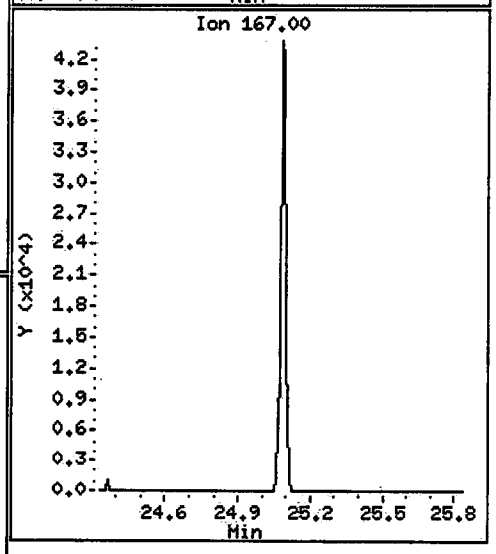












Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

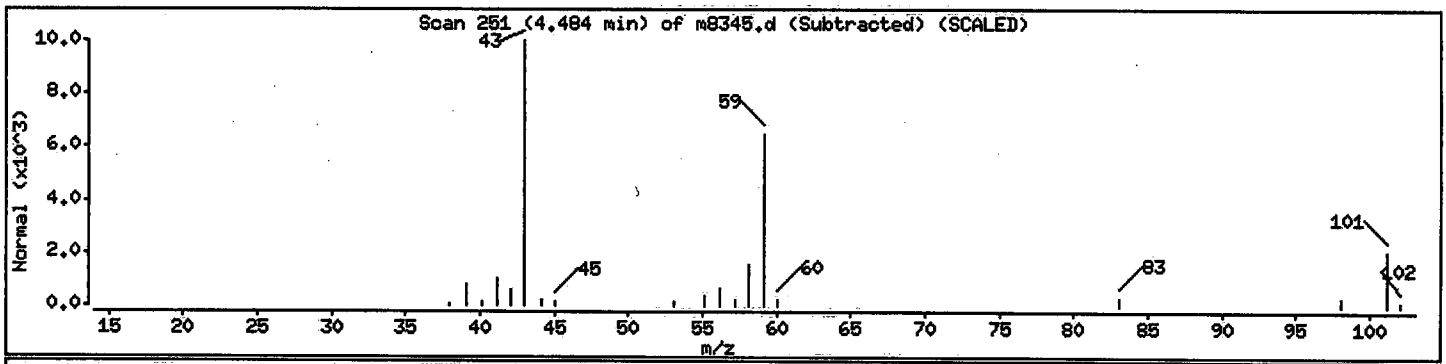
Volume Injected (uL): 2.0

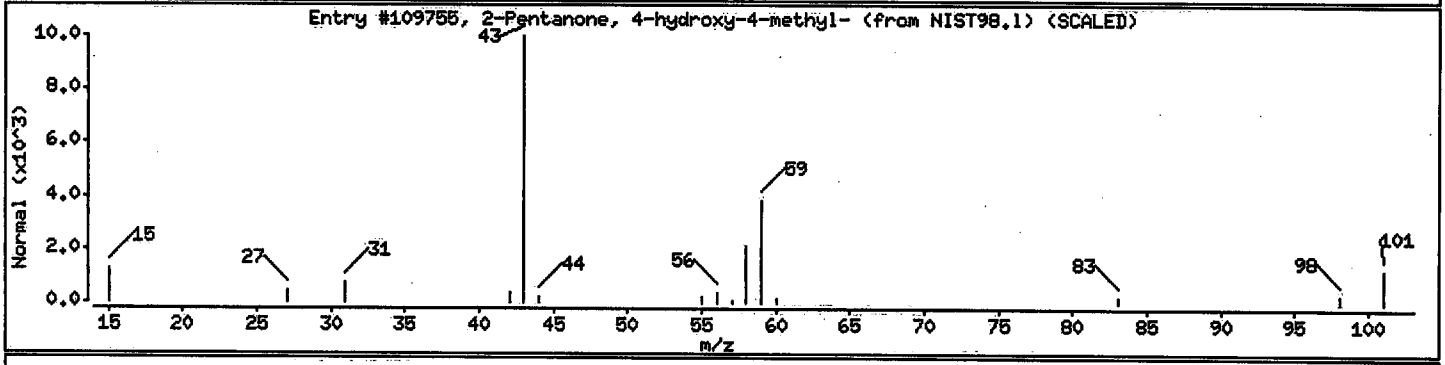
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109755	56	C6H12O2	116





Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

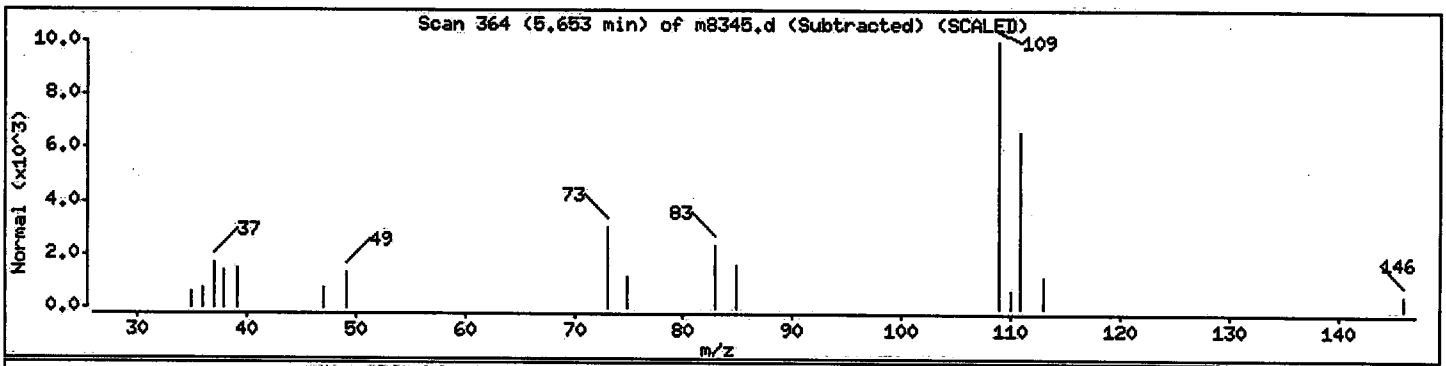
Volume Injected (uL): 2.0

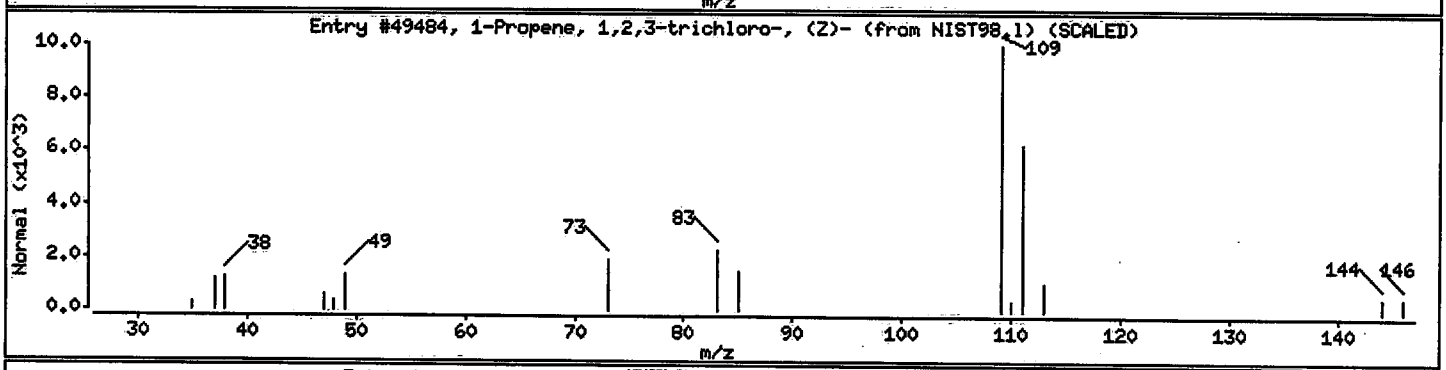
Operator: dce

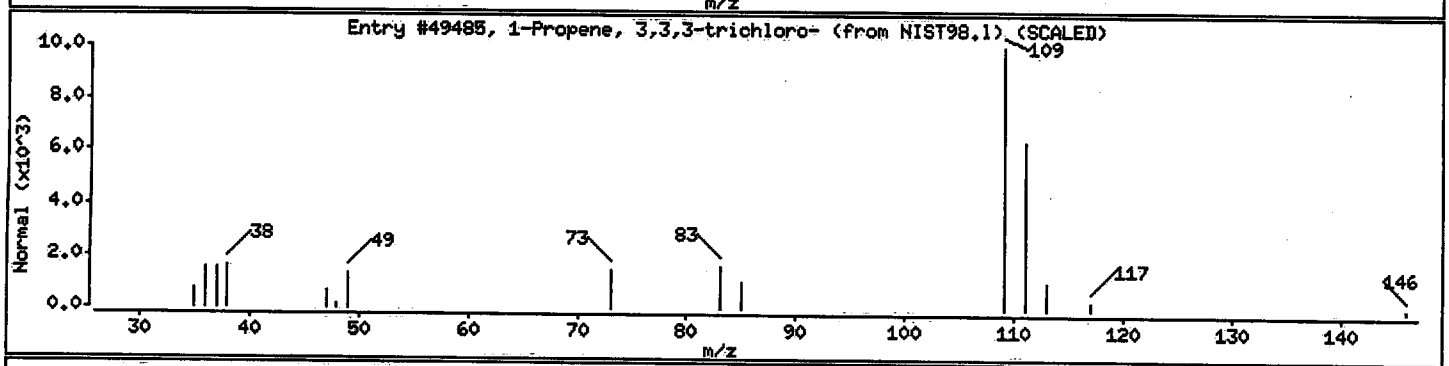
Column phase: ZB-5

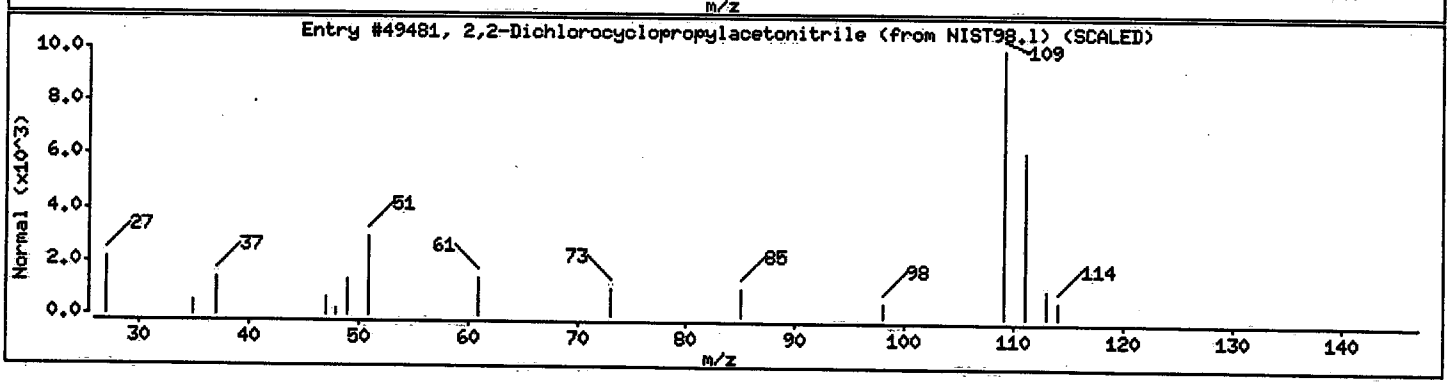
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 1,2,3-trichloro-, (Z)-	13116-57-9	NIST98.1	49484	95	C3H3Cl3	144
1-Propene, 3,3,3-trichloro-	2233-00-3	NIST98.1	49485	78	C3H3Cl3	144
2,2-Dichlorocyclopropylacetonitrile	5365-25-3	NIST98.1	49481	72	C5H5Cl2N	149









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

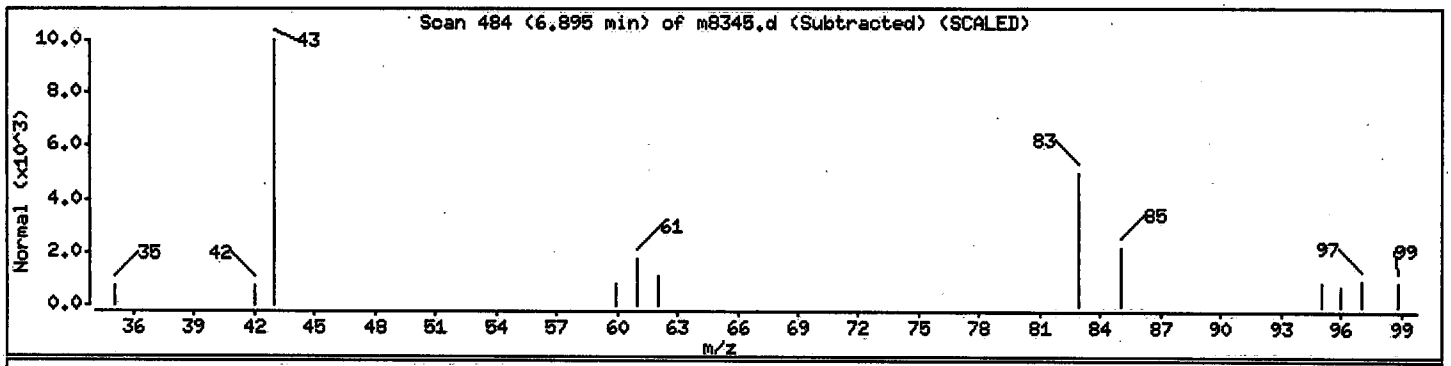
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

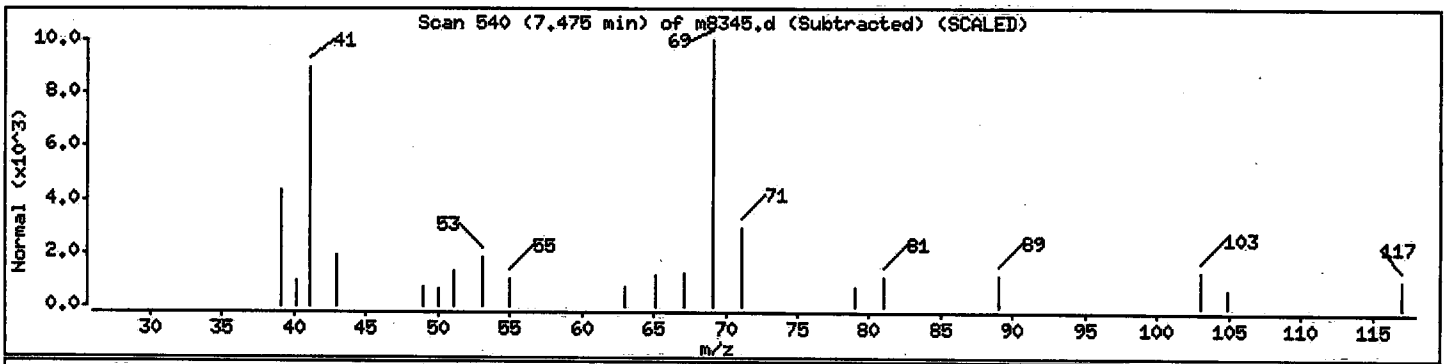
Volume Injected (uL): 2.0

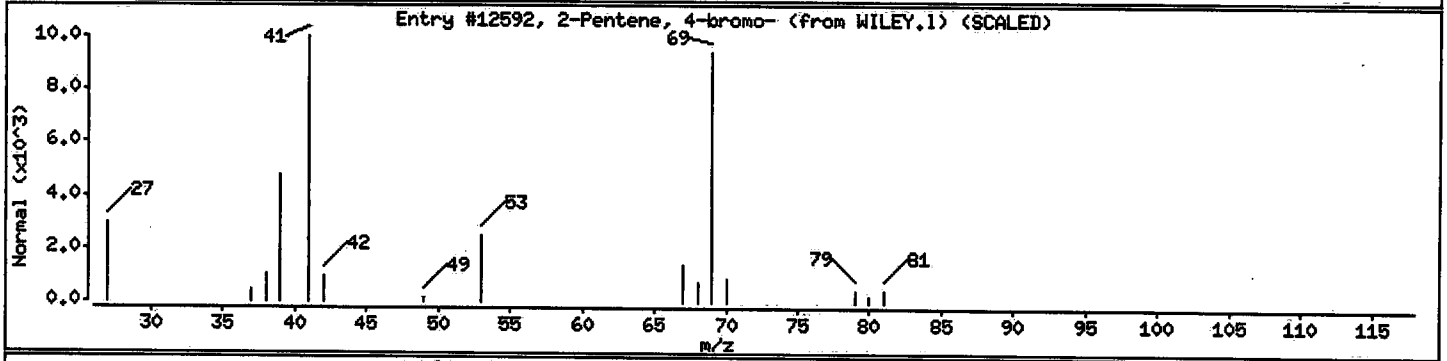
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentene, 4-bromo-	1809-26-3	WILEY.l	12592	40	C5H9Br	148





Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

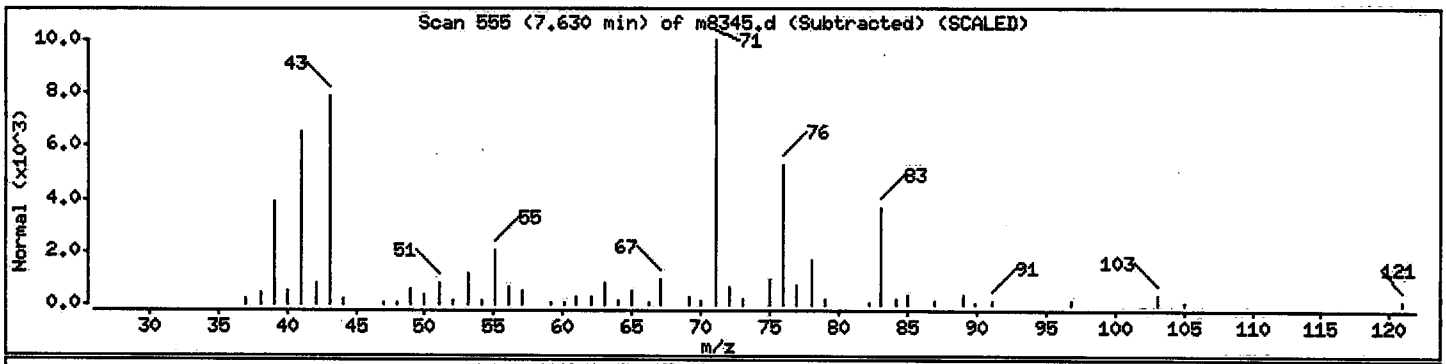
Volume Injected (uL): 2.0

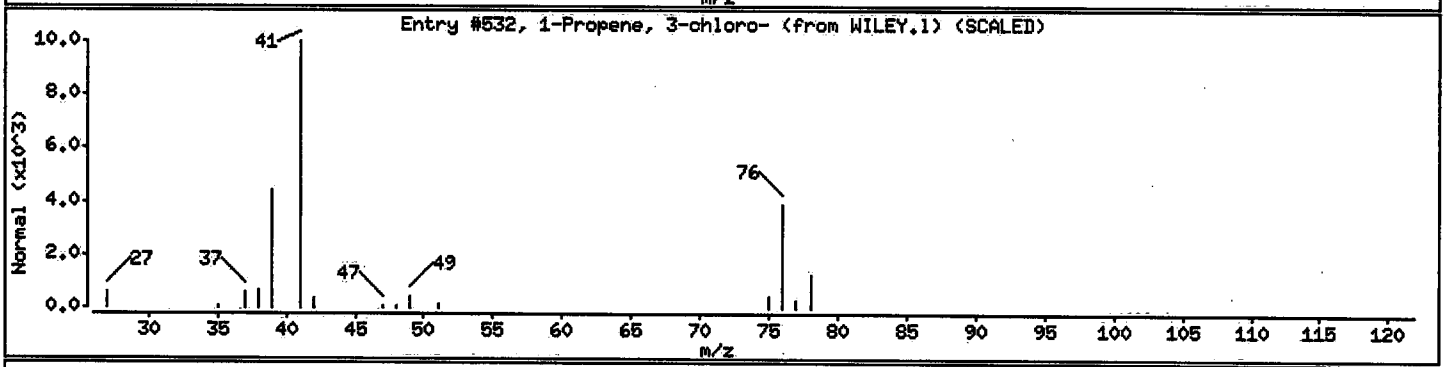
Operator: dce

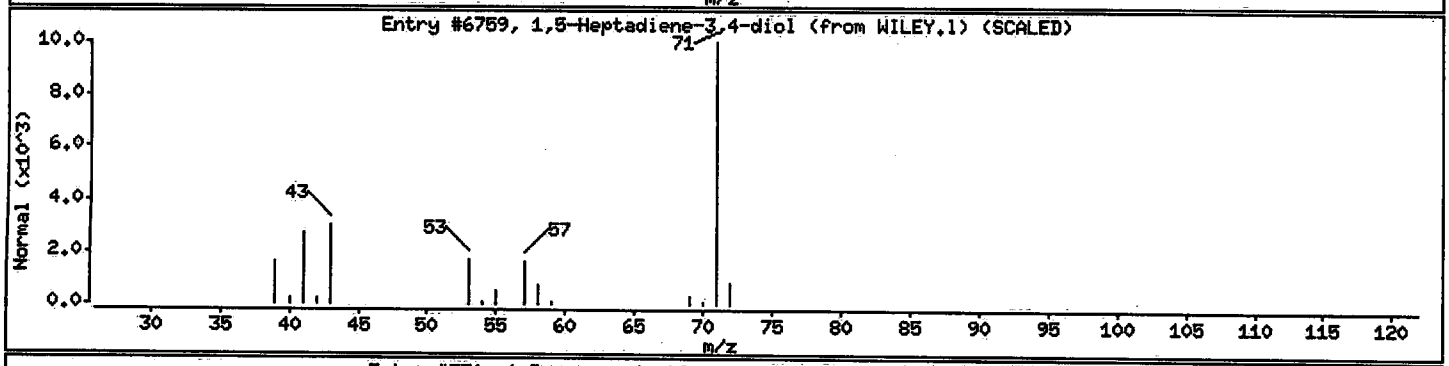
Column phase: ZB-5

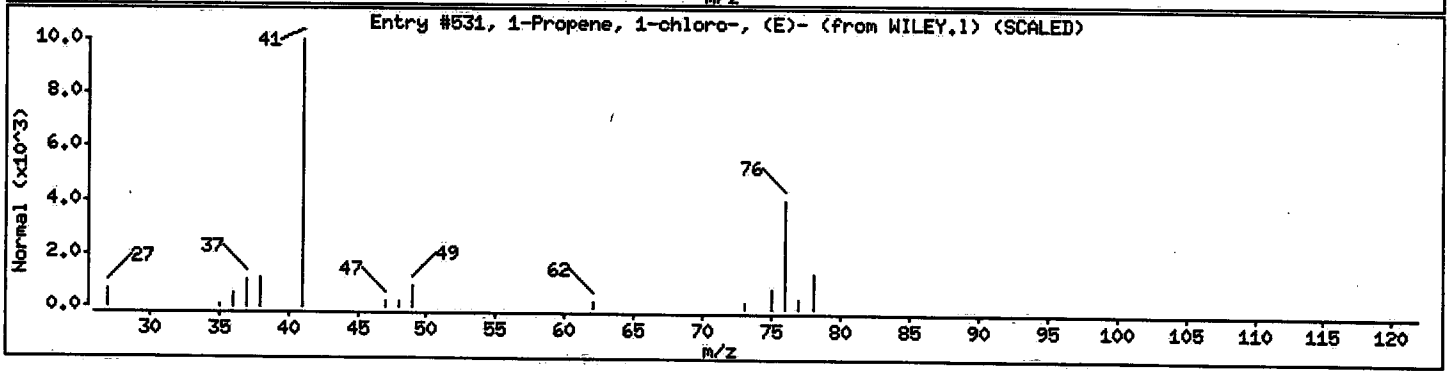
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 3-chloro-	107-05-1	WILEY.l	532	38	C3H5Cl	76
1,5-Heptadiene-3,4-diol	51945-98-3	WILEY.l	6759	37	C7H12O2	128
1-Propene, 1-chloro-, (E)-	16136-85-9	WILEY.l	531	18	C3H5Cl	76









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

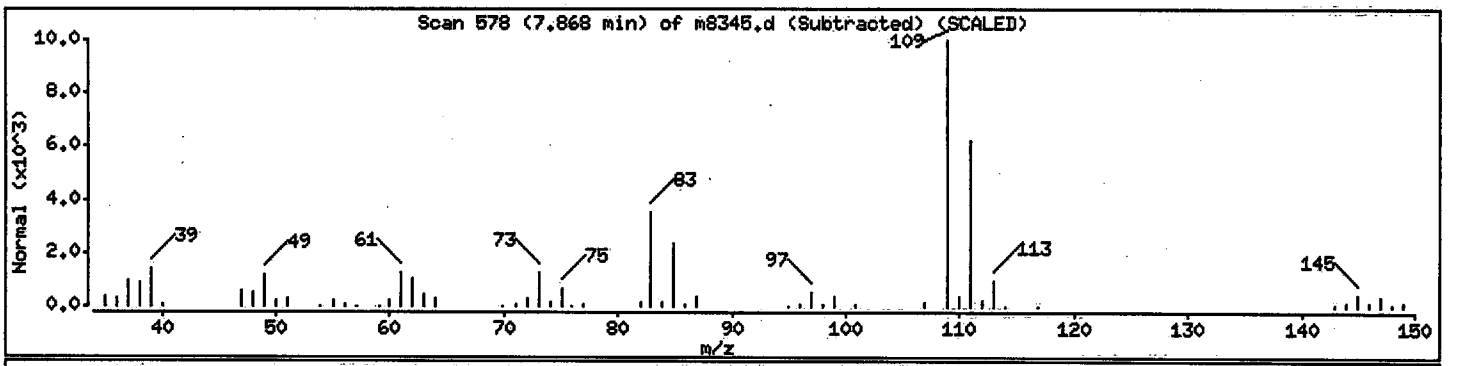
Volume Injected (uL): 2.0

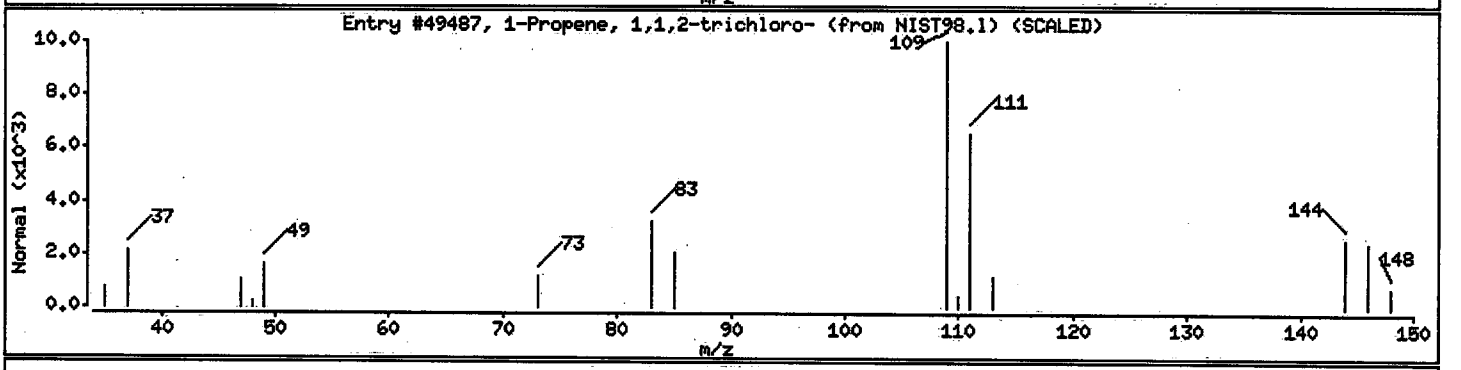
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 1,1,2-trichloro-	21400-25-9	NIST98.1	49487	83	C3H3Cl3	144





Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

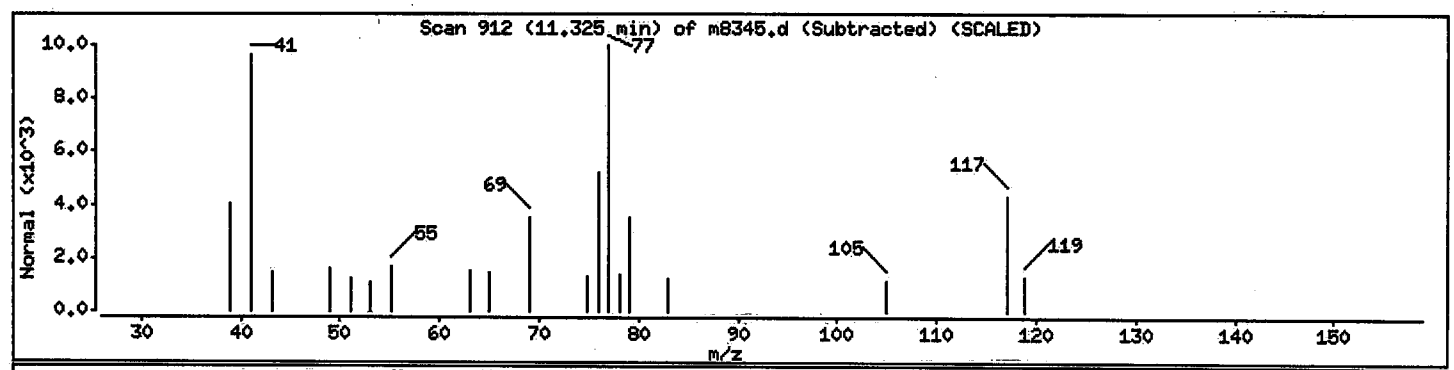
Volume Injected (uL): 2.0

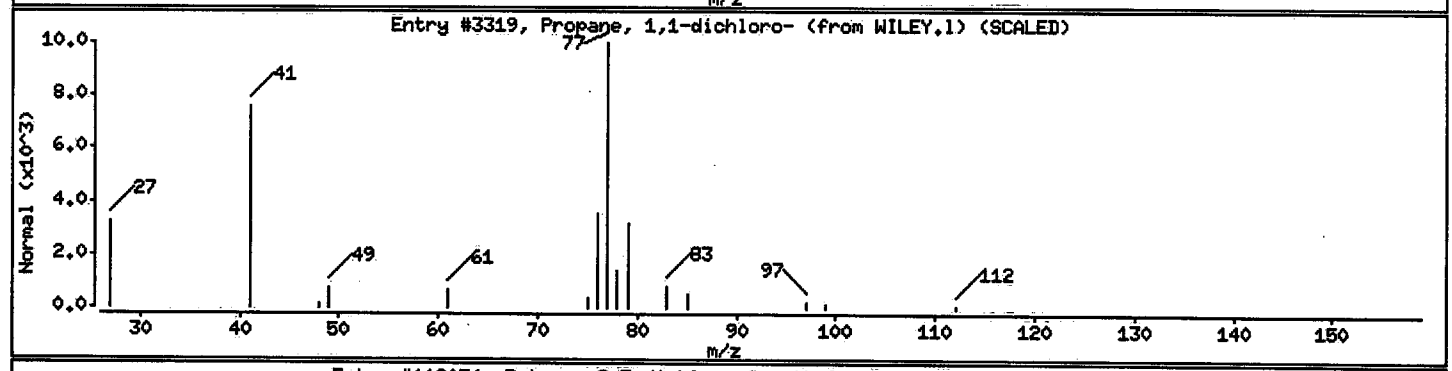
Operator: dce

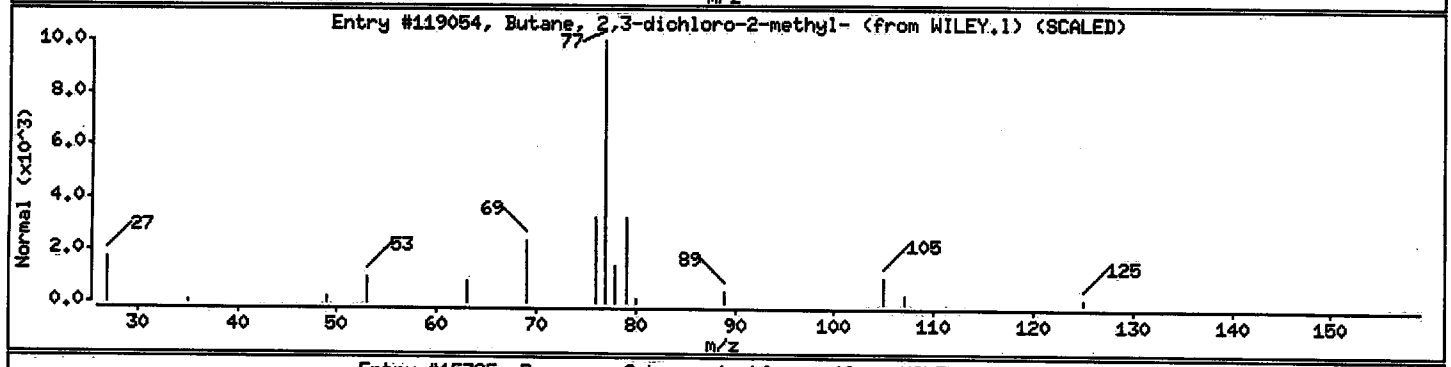
Column phase: ZB-5

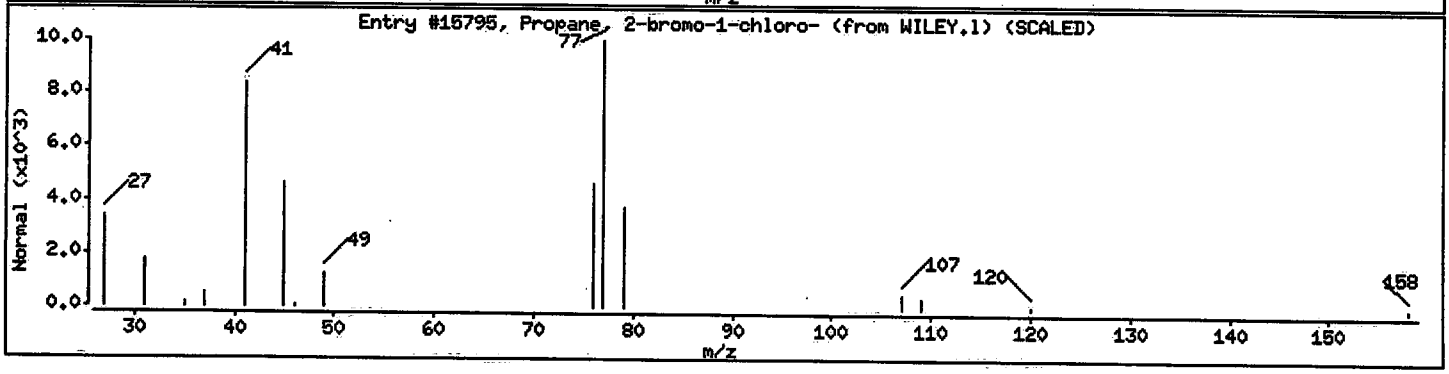
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,1-dichloro-	78-99-9	WILEY.l	3319	47	C3H6Cl2	112
Butane, 2,3-dichloro-2-methyl-	507-45-9	WILEY.l	119054	38	C5H10Cl2	140
Propane, 2-bromo-1-chloro-	3017-95-6	WILEY.l	15795	37	C3H6BrCl	156









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

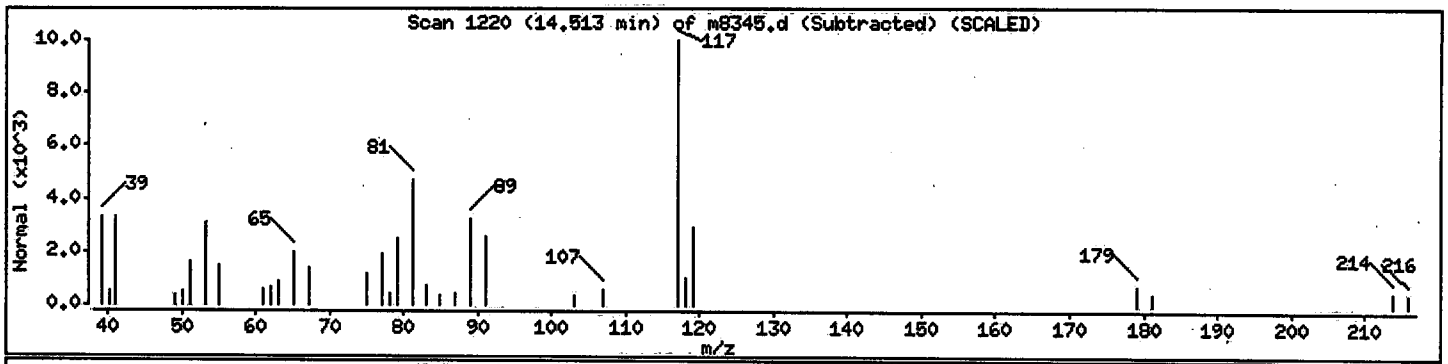
Volume Injected (uL): 2.0

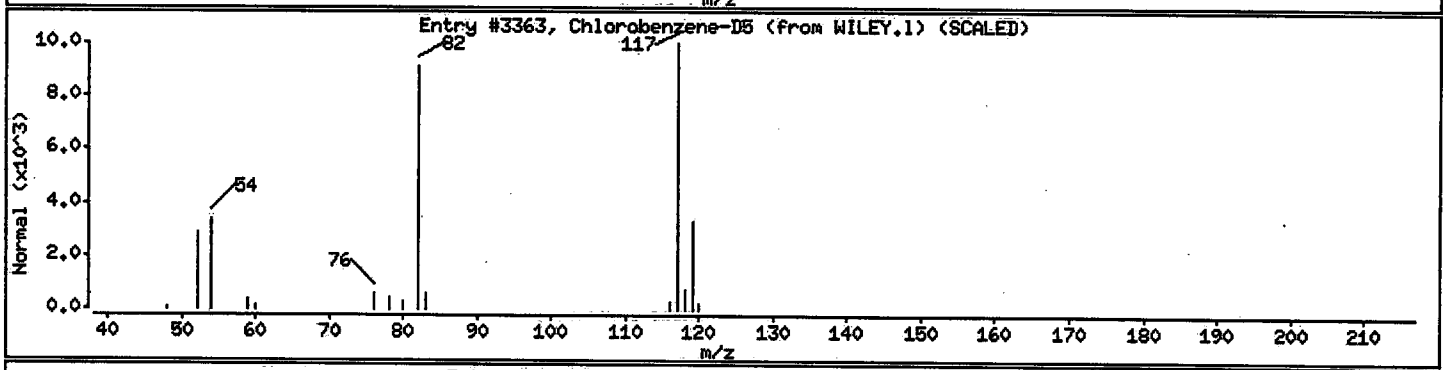
Operator: dce

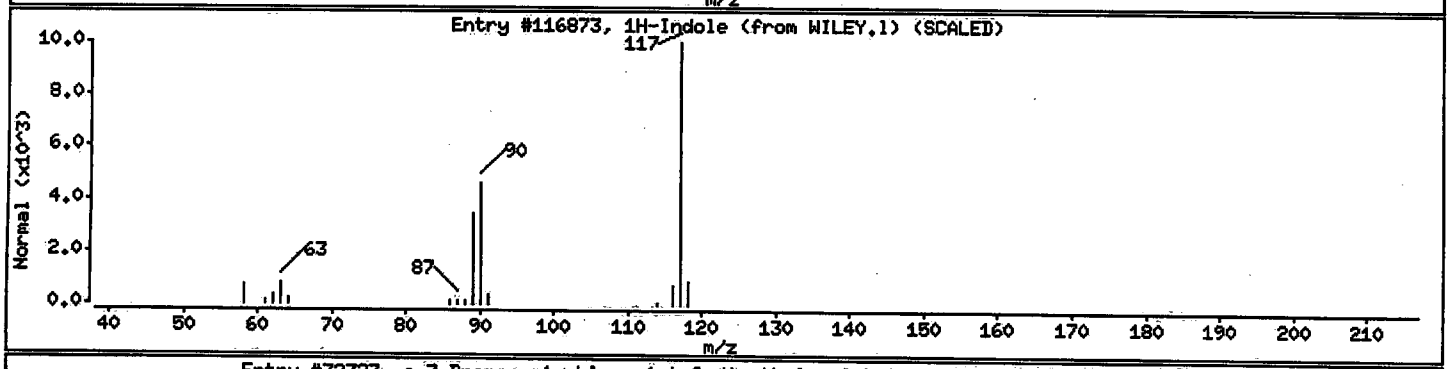
Column phase: ZB-5

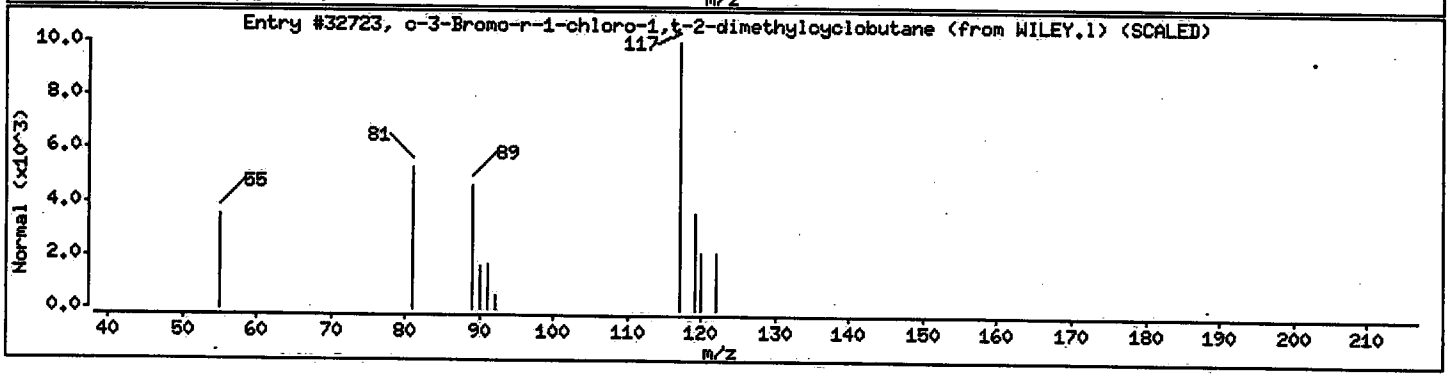
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chlorobenzene-D5	0-00-0	WILEY.l	3363	38	C6D5Cl	112
1H-Indole	120-72-9	WILEY.l	116873	38	C8H7N	117
c-3-Bromo-r-1-chloro-1,t-2-dimethylcyclo	87334-59-6	WILEY.l	32723	38	C6H10BrCl	196









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

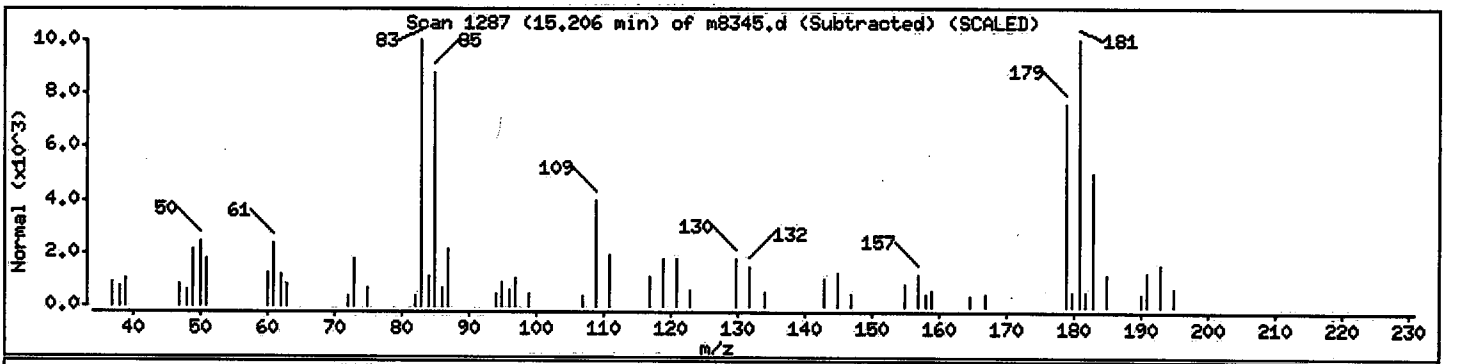
Volume Injected (uL): 2.0

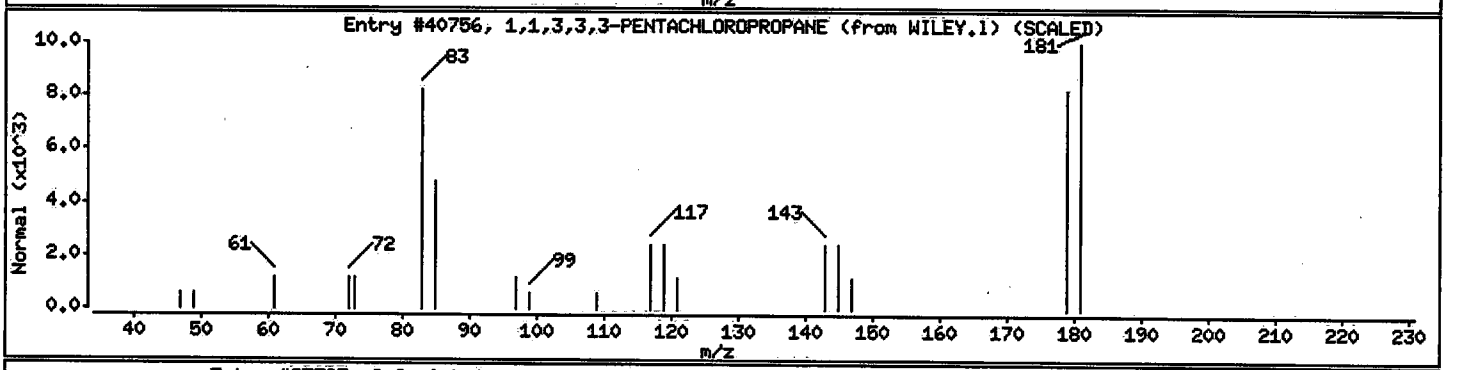
Operator: dce

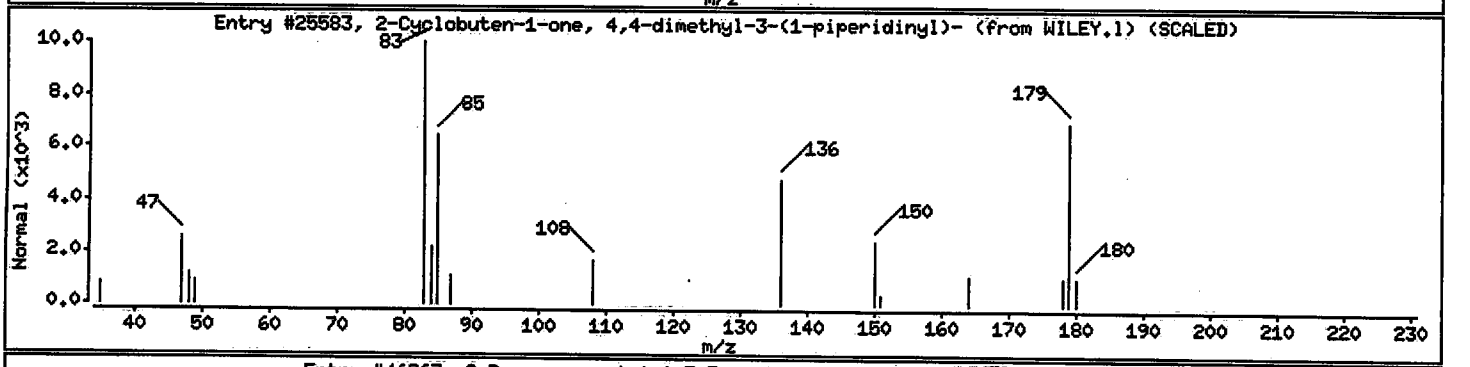
Column phase: ZB-5

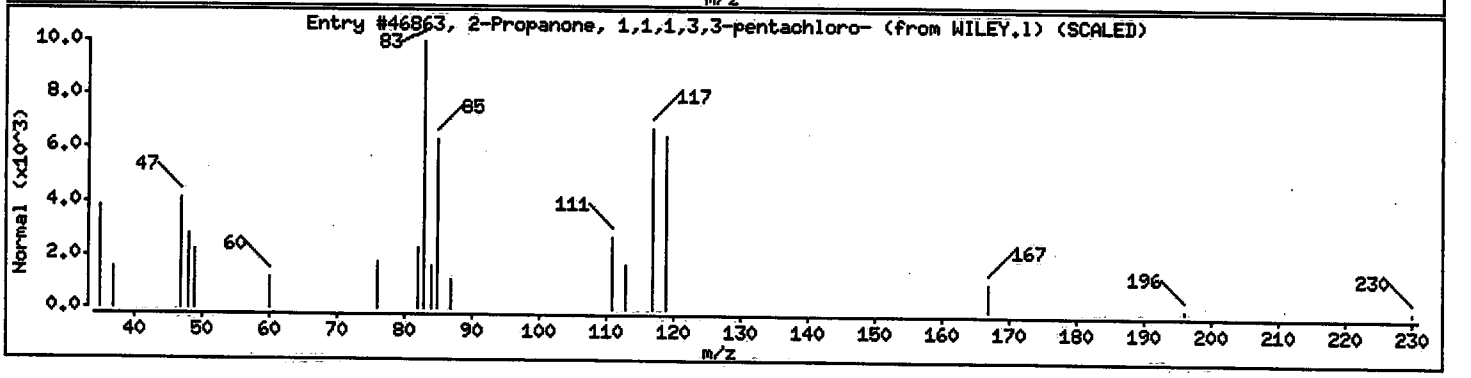
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1,3,3,3-PENTACHLOROPROPANE	0-00-0	WILEY.l	40756	32	C3H3Cl5	214
2-Cyclobuten-1-one, 4,4-dimethyl-3-(1-pi	21922-69-0	WILEY.l	25583	17	C11H17NO	179
2-Propanone, 1,1,1,3,3-pentachloro-	1768-31-6	WILEY.l	46863	12	C3HCl5O	228









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

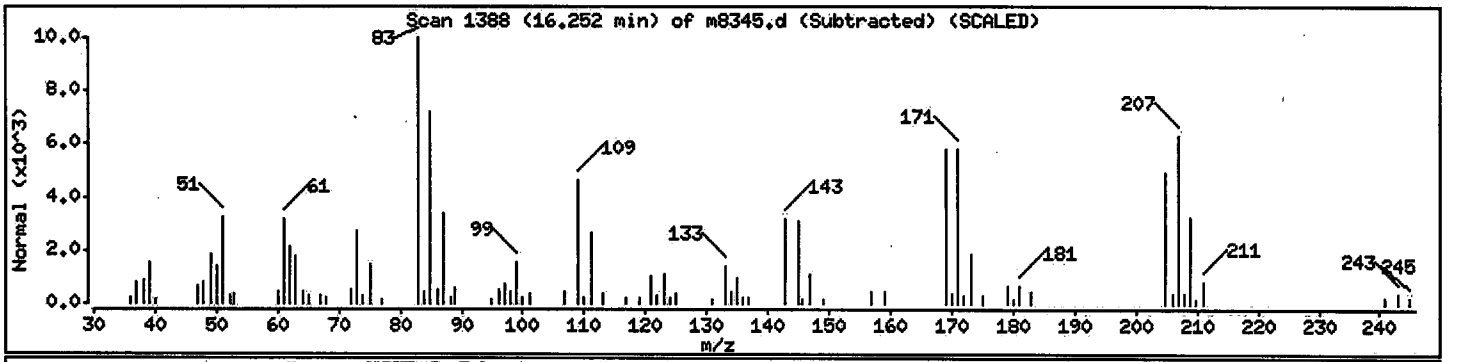
Volume Injected (uL): 2.0

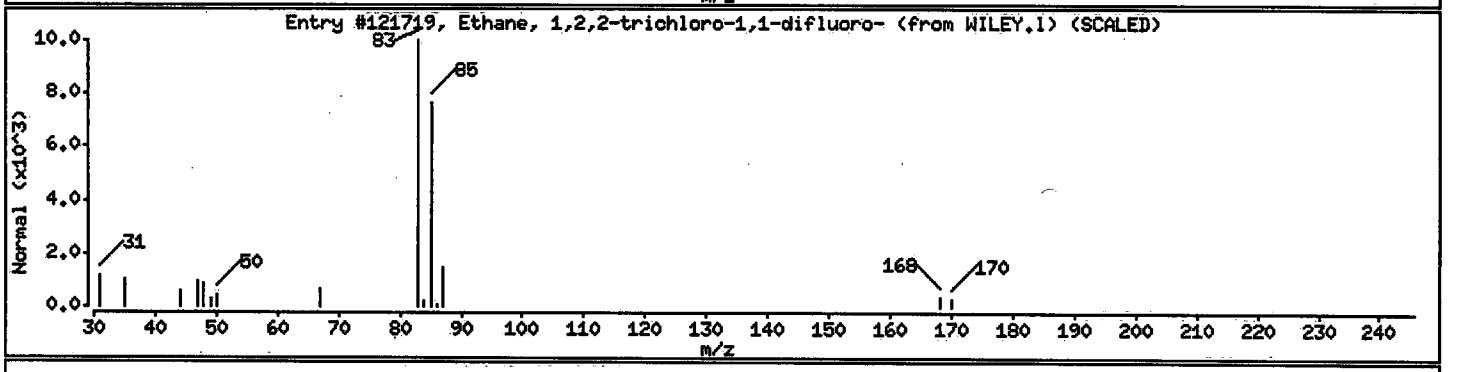
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,2,2-trichloro-1,1-difluoro-	354-21-2	WILEY.l	121719	10	C2HCl3F2	168





Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

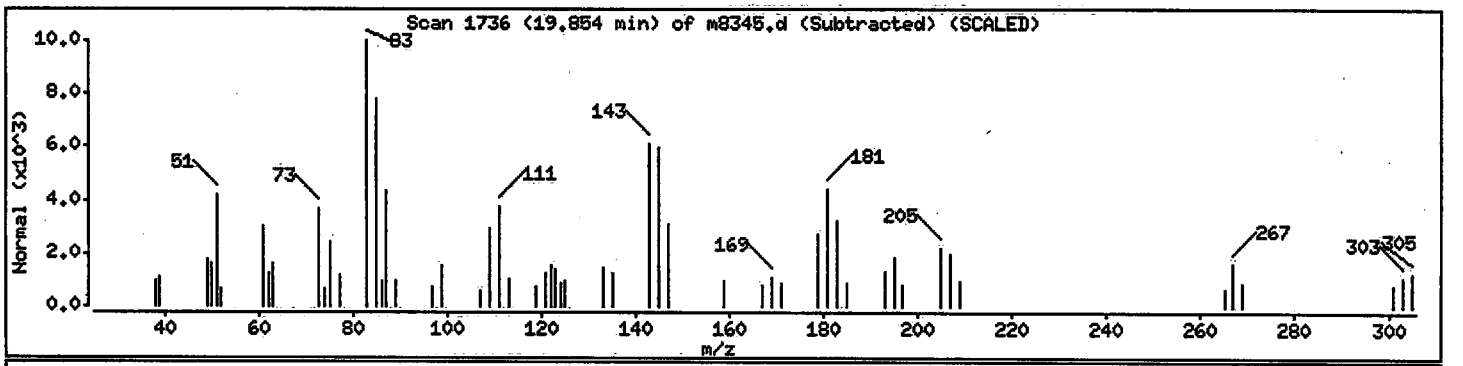
Volume Injected (uL): 2.0

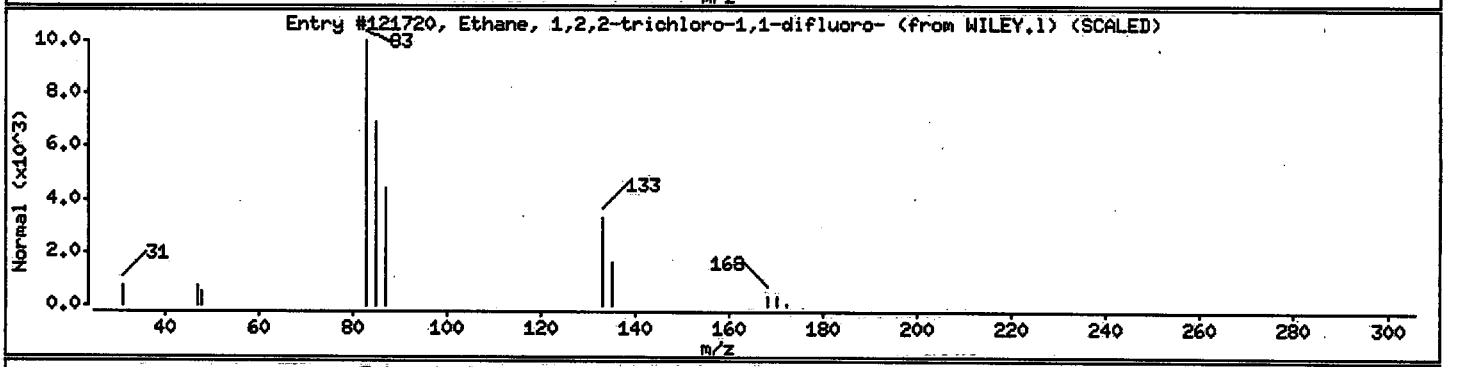
Operator: dce

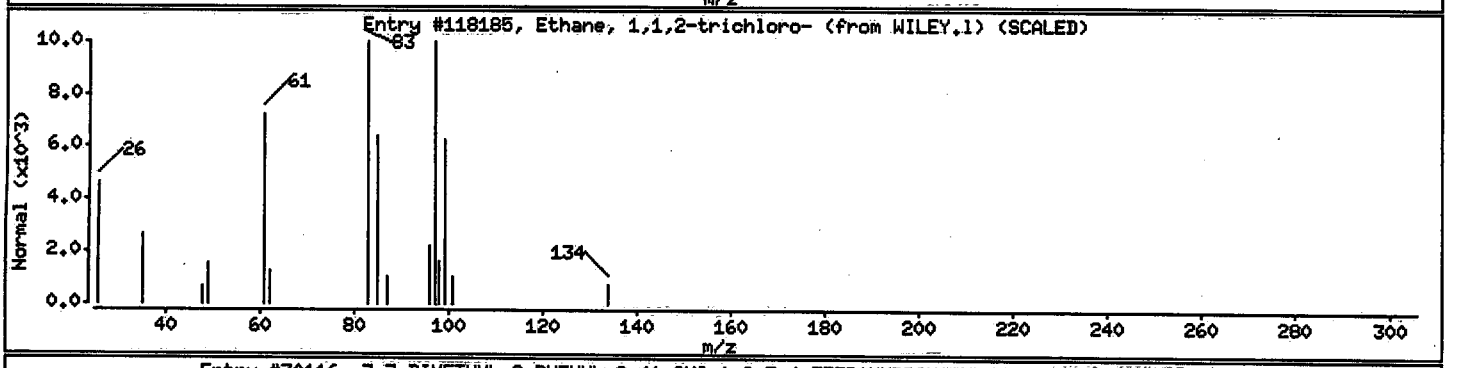
Column phase: ZB-5

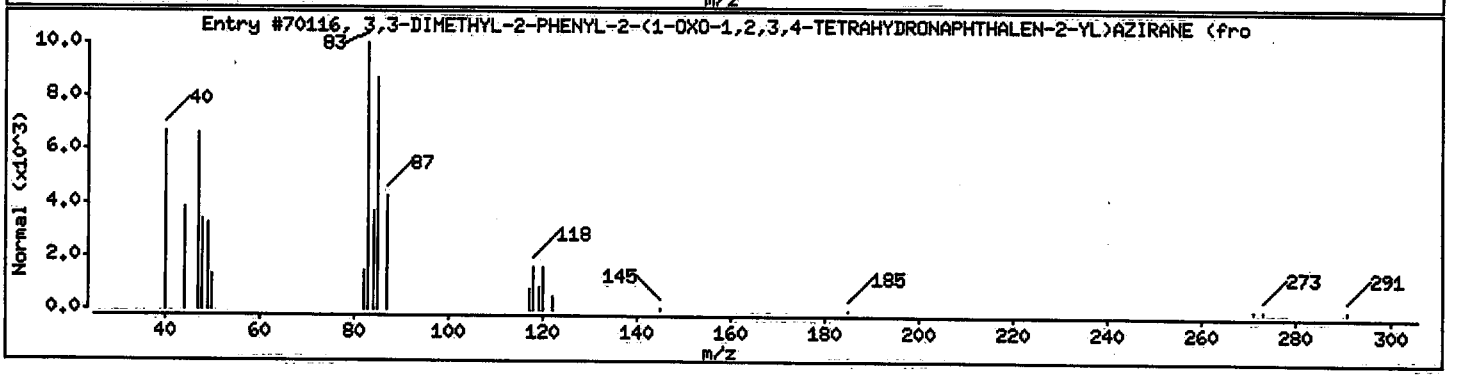
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,2,2-trichloro-1,1-difluoro-	354-21-2	WILEY.l	121720	32	C2HCl3F2	168
Ethane, 1,1,2-trichloro-	79-00-5	WILEY.l	118185	23	C2H3Cl3	132
3,3-DIMETHYL-2-PHENYL-2-(1-OXO-1,2,3,4-T	74235-54-4	WILEY.l	70116	23	C20H21NO	291









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Cyclobuten-1-one, 4,4-dimethyl-3-(1-pi	21922-69-0	WILEY.l	25583	38	C11H17NO	179
1,1,3,3,3-PENTACHLOROPROPANE	0-00-0	WILEY.l	40756	37	C3H3Cl5	214
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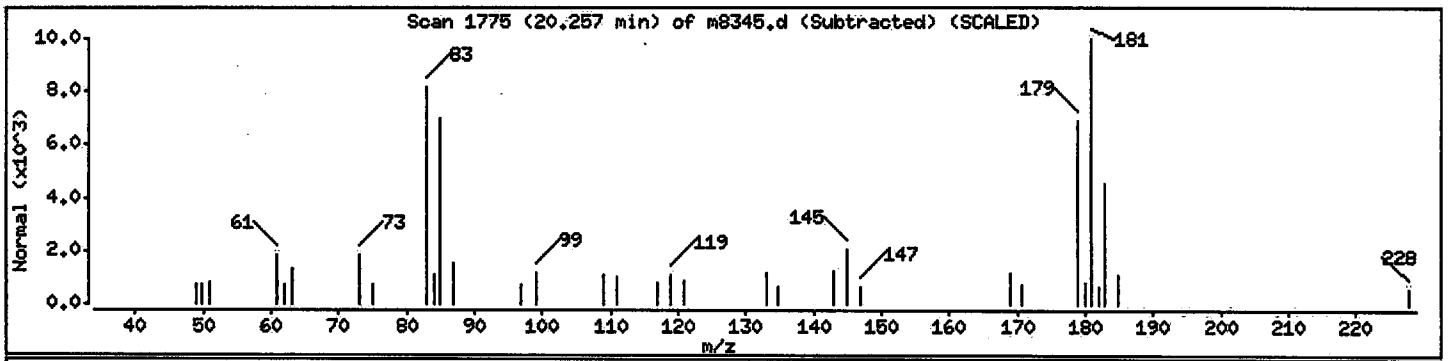
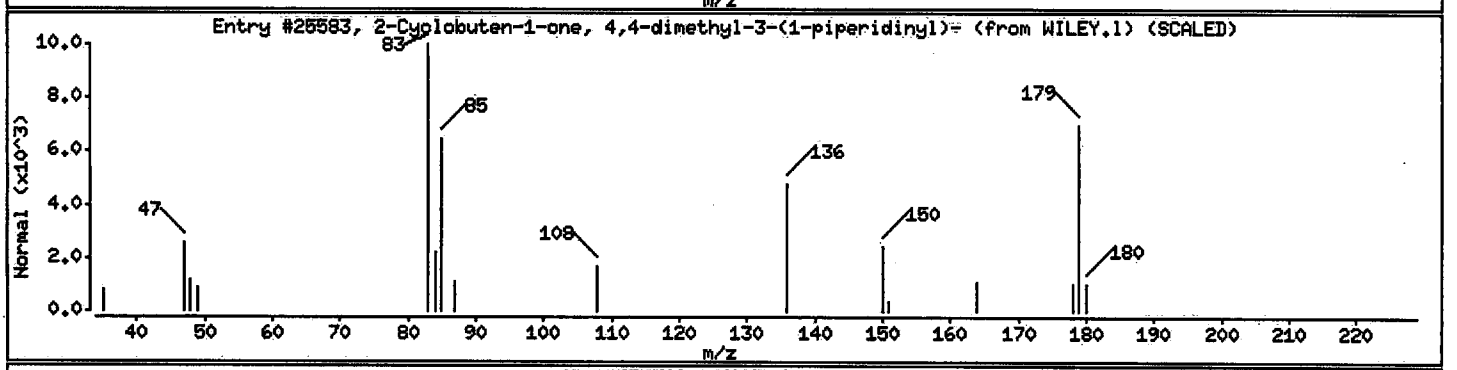
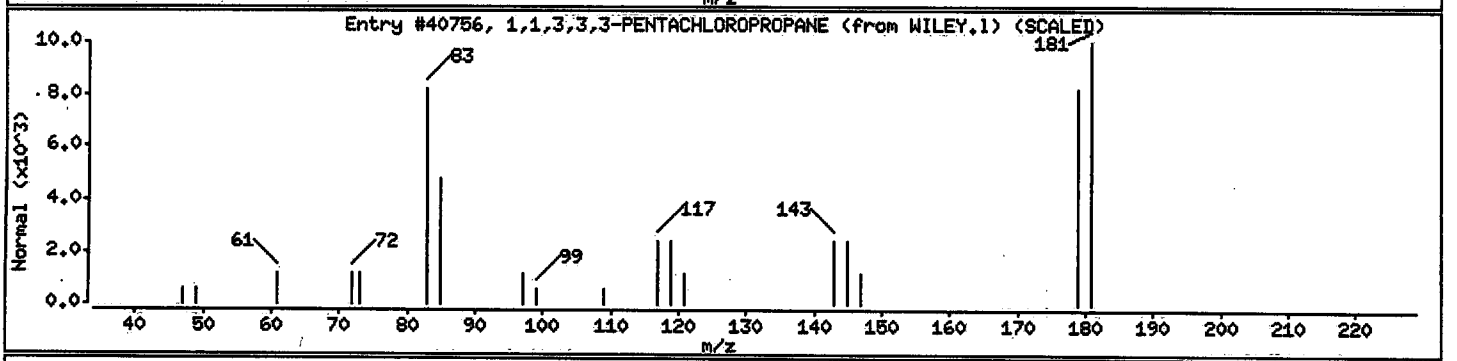
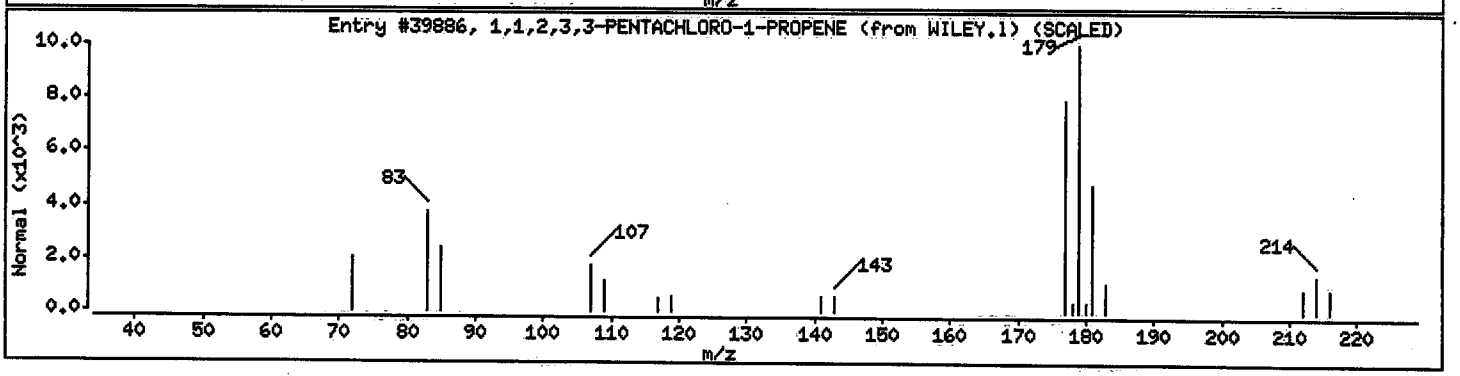








Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

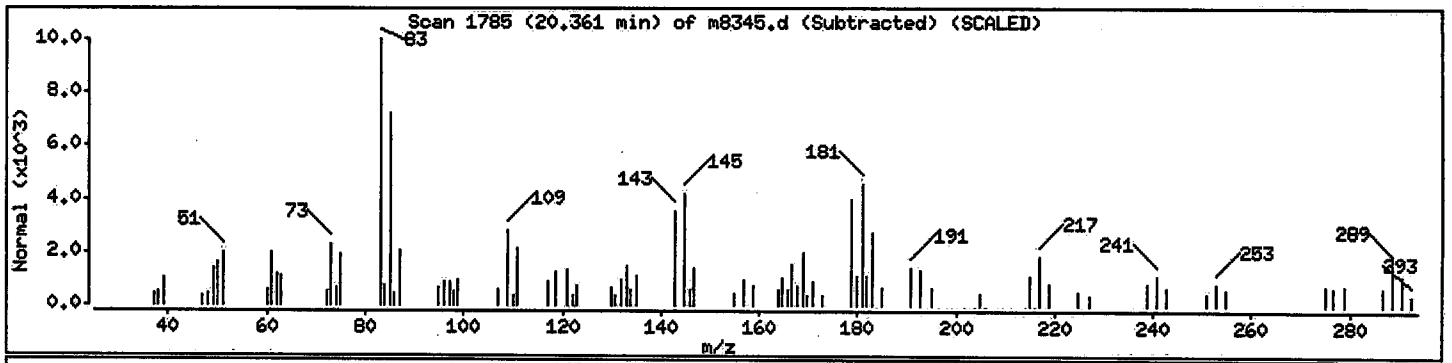
Volume Injected (uL): 2.0

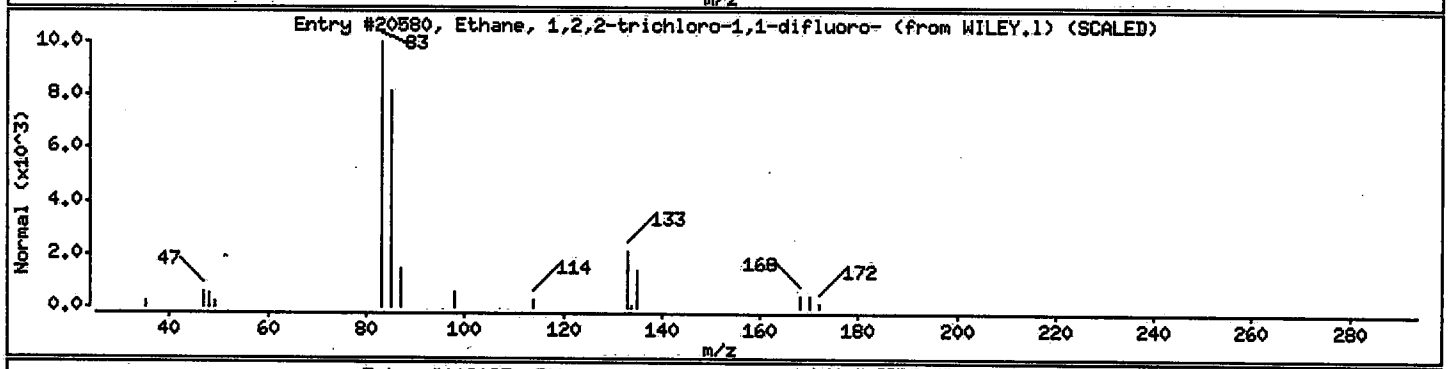
Operator: dce

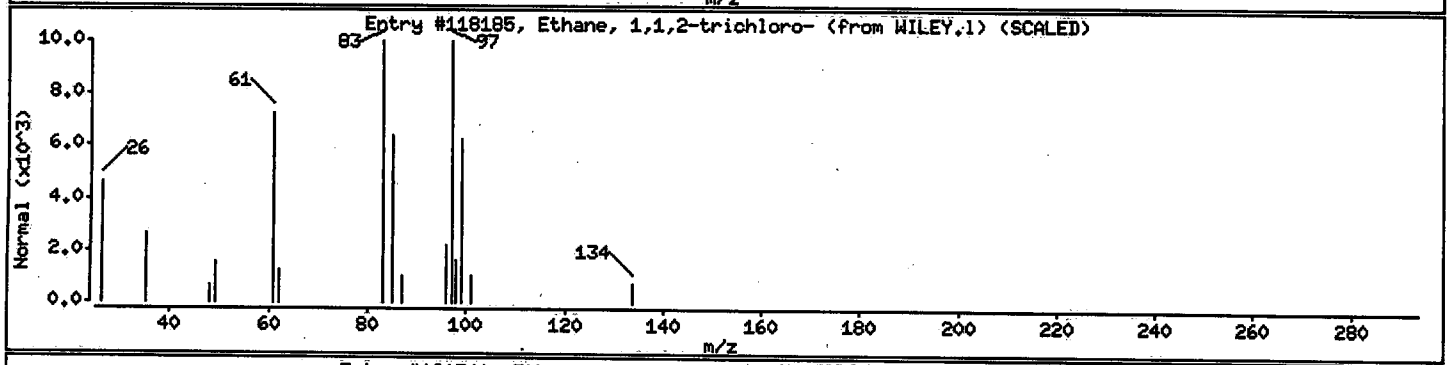
Column phase: ZB-5

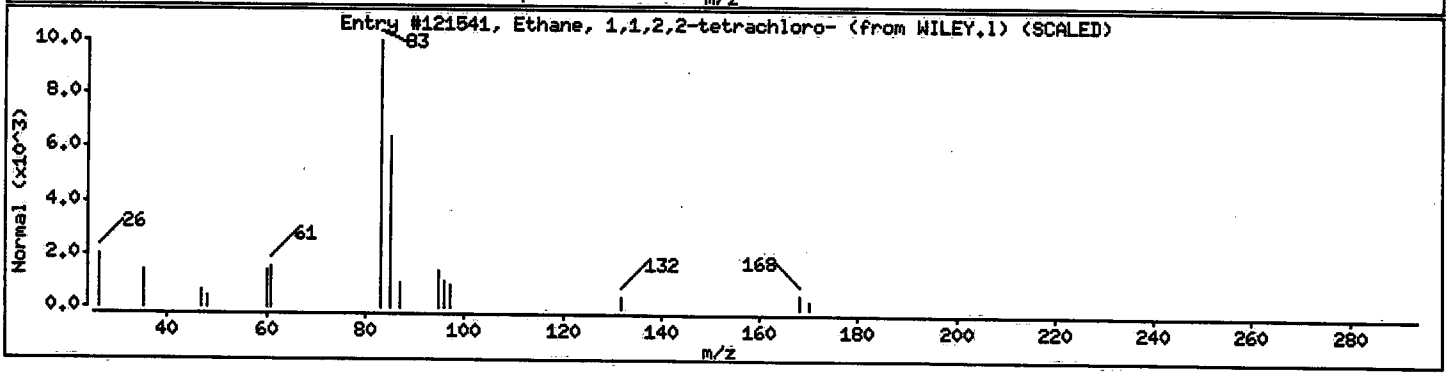
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,2,2-trichloro-1,1-difluoro-	354-21-2	WILEY.l	20580	38	C2HCl3F2	168
Ethane, 1,1,2-trichloro-	79-00-5	WILEY.l	118185	35	C2H3Cl3	132
Ethane, 1,1,2,2-tetrachloro-	79-34-5	WILEY.l	121541	30	C2H2Cl4	166









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

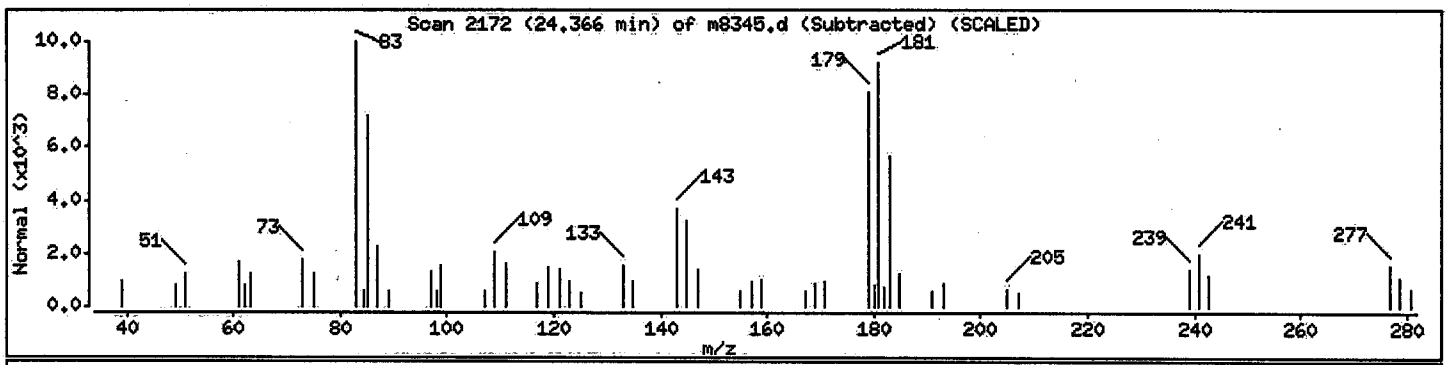
Volume Injected (uL): 2.0

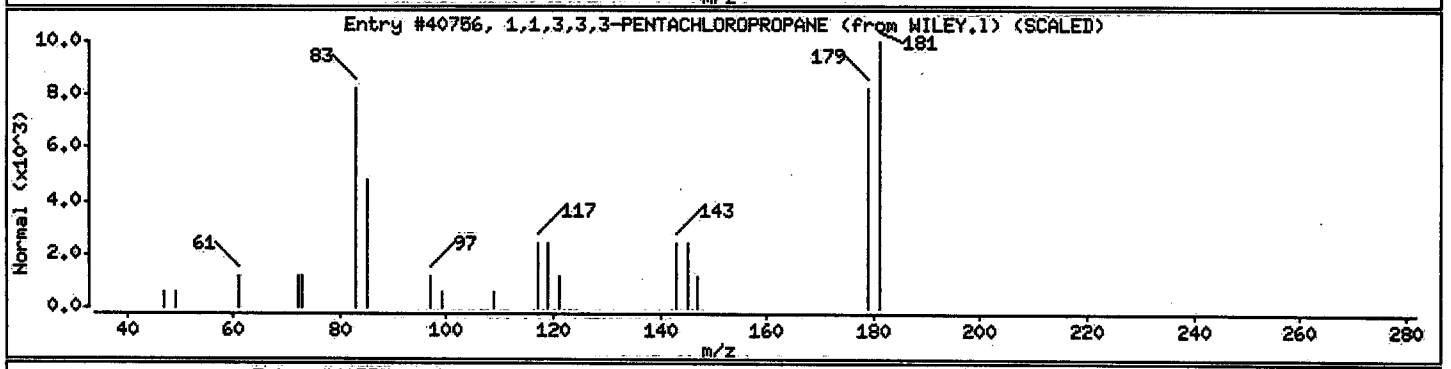
Operator: dce

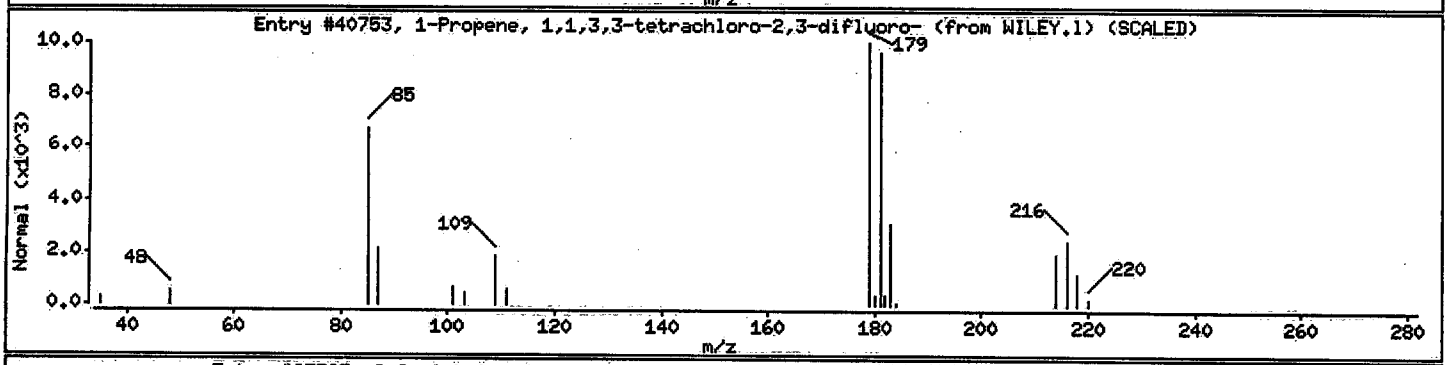
Column phase: ZB-5

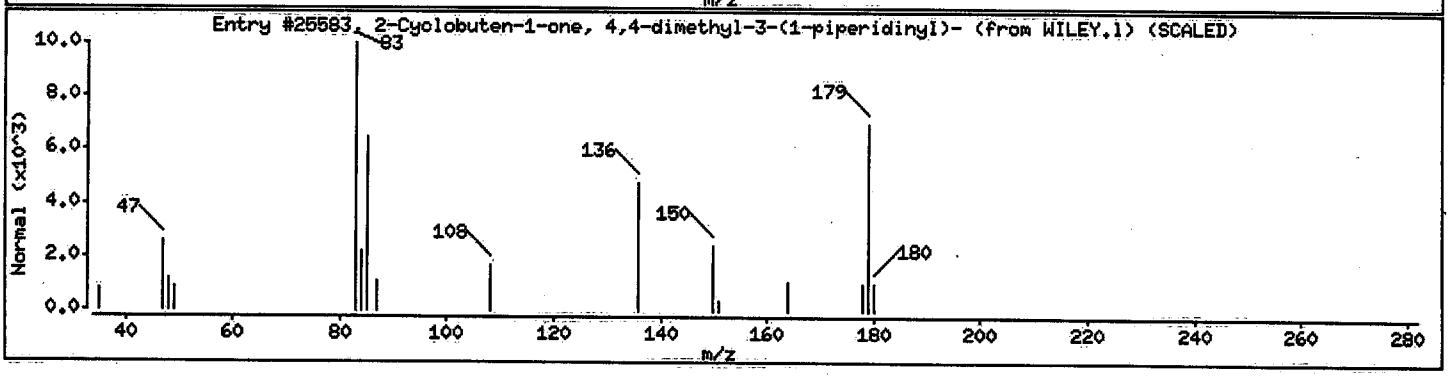
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1,3,3,3-PENTACHLOROPROPANE	0-00-0	WILEY.1	40756	64	C3H3Cl5	214
1-Propene, 1,1,3,3-tetrachloro-2,3-diflu	815-16-7	WILEY.1	40753	43	C3Cl4F2	214
2-Cyclobuten-1-one, 4,4-dimethyl-3-(1-pi	21922-69-0	WILEY.1	25583	38	C11H17NO	179









Data File: /var/chem/molly.i/0307174m1r.b/m8345.d

Date : 17-JUL-2003 14:03

Client ID:

Instrument: molly.i

Sample Info: MB-200302830

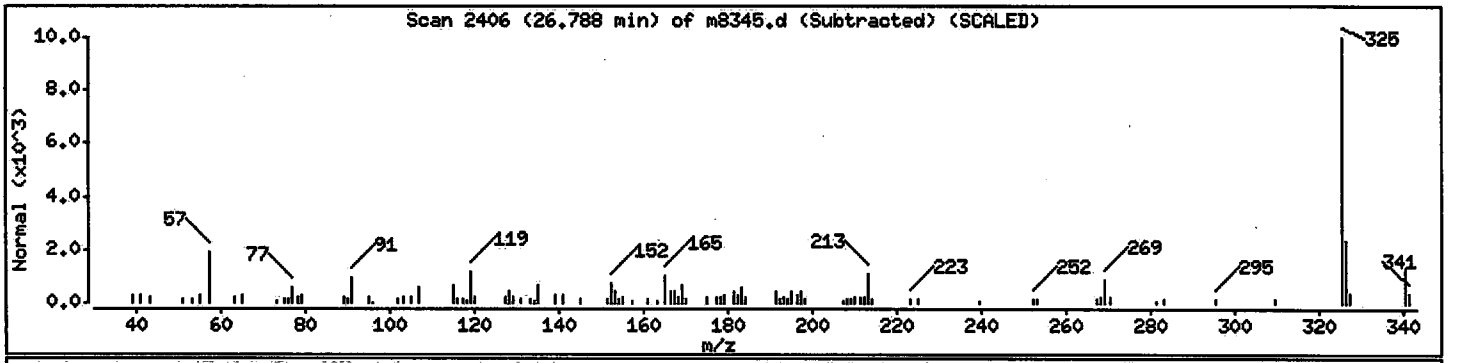
Volume Injected (uL): 2.0

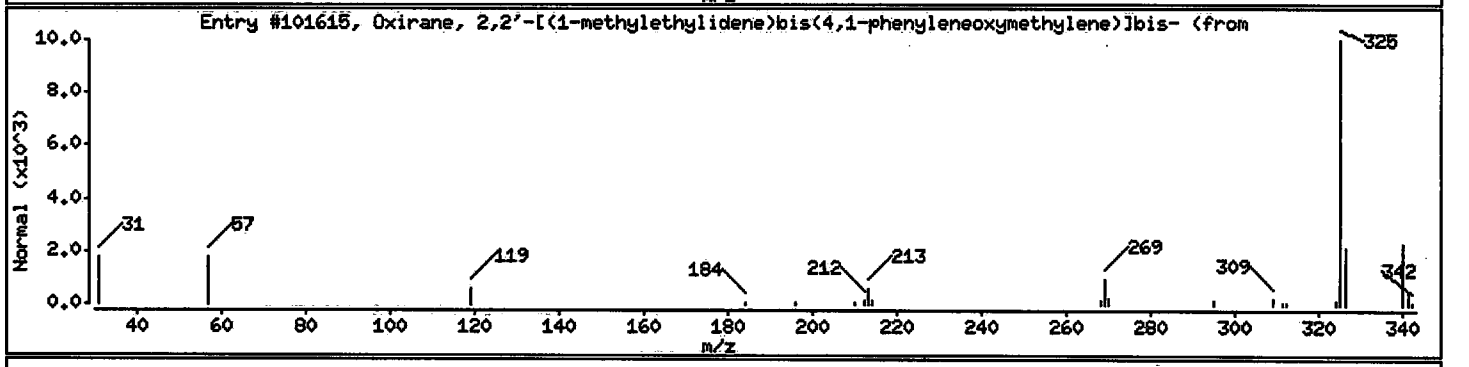
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, 2,2'-[(1-methylethylidene)bis(4	1675-54-3	NIST98.1	101615	78	C21H24O4	340





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Data file : /var/chem/molly.i/0307174m1r.b/m8345.d
Lab Smp Id: MB-200302830
Inj Date : 17-JUL-2003 14:03
Operator : dce Inst ID: molly.i
Smp Info : MB-200302830
Misc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,MBLK
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.566	651220	40.000
* 30 Naphthalene-d8	12.836	814693	40.000
* 47 Acenaphthene-d10	16.614	980189	40.000
* 65 Phenanthrene-d10	19.605	1122473	40.000
* 77 Chrysene-d12	24.874	1337881	40.000
* 84 Perylene-d12	27.006	1195027	40.000

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.484	1496241	91.9037061	46.0	56	NIST98.1	109755	11
1-Propene, 1,2,3-trichloro-, (Z)-					CAS #: 13116-57-9		
5.653	243826	14.9765654	7.49	95	NIST98.1	49484	11
Unknown					CAS #:		
6.895	191730	11.7766494	5.89	0		0	11
2-Pentene, 4-bromo-					CAS #: 1809-26-3		
7.475	225299	13.8385348	6.92	40	WILEY.1	12592	11
1-Propene, 3-chloro-					CAS #: 107-05-1		
7.630	2331379	143.200469	71.6	38	WILEY.1	532	11
1-Propene, 1,1,2-trichloro-					CAS #: 21400-25-9		
7.868	7469885	458.823361	229	83	NIST98.1	49487	11
Propane, 1,1-dichloro-					CAS #: 78-99-9		
11.325	123260	6.05183896	3.02	47	WILEY.1	3319	30
Chlorobenzene-D5					CAS #: 0-00-0		
14.513	212521	10.4344141	5.22	38	WILEY.1	3363	30
1,1,3,3,3-PENTACHLOROPROPANE					CAS #: 0-00-0		
15.206	442366	18.0522776	9.03	32	WILEY.1	40756	47
Ethane, 1,2,2-trichloro-1,1-difluoro-					CAS #: 354-21-2		
16.252	1461961	59.6603611	29.8	10	WILEY.1	121719	47
Ethane, 1,2,2-trichloro-1,1-difluoro-					CAS #: 354-21-2		
19.854	296400	10.5623767	5.28	32	WILEY.1	121720	65
2-Cyclobuten-1-one, 4,4-dimethyl-3-(1-pi					CAS #: 21922-69-0		
20.257	201929	7.19585613	3.60	38	WILEY.1	25583	65
Ethane, 1,2,2-trichloro-1,1-difluoro-					CAS #: 354-21-2		
20.361	491278	17.5069947	8.75	38	WILEY.1	20580	65
1,1,3,3,3-PENTACHLOROPROPANE					CAS #: 0-00-0		
24.366	245145	7.32934212	3.66	64	WILEY.1	40756	77
Oxirane, 2,2'-[(1-methylethylidene)bis(4					CAS #: 1675-54-3		
26.788	683688	22.8844344	11.4	78	NIST98.1	101615	84

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM
% Moist:
Lab ID: 0307090-03CMS **Sample Type:** MS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	13.39	J	20.40	µg/L	1	7/18/2003 5:47:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	28.15		20.40	µg/L	1			
1,2-Dichlorobenzene	5.817	J	20.40	µg/L	1			
1,3-Dichlorobenzene	ND		20.40	µg/L	1			
1,4-Dichlorobenzene	22.29		20.40	µg/L	1			
2,2´-Oxybis(1-chloropropane)	ND		20.40	µg/L	1			
2,4,5-Trichlorophenol	ND		51.00	µg/L	1			
2,4,6-Trichlorophenol	ND		20.40	µg/L	1			
2,4-Dichlorophenol	ND		20.40	µg/L	1			
2,4-Dimethylphenol	15.97	J	20.40	µg/L	1			
2,4-Dinitrophenol	ND		51.00	µg/L	1			
2,4-Dinitrotoluene	57.15	M	20.40	µg/L	1			
2,6-Dinitrotoluene	ND		20.40	µg/L	1			
2-Chloronaphthalene	ND		20.40	µg/L	1			
2-Chlorophenol	26.26		20.40	µg/L	1			
2-Methylnaphthalene	335.8	E	20.40	µg/L	1			
2-Methylphenol	9.536	J	20.40	µg/L	1			
2-Nitroaniline	ND		51.00	µg/L	1			
2-Nitrophenol	ND		20.40	µg/L	1			
3,3´-Dichlorobenzidine	ND		40.80	µg/L	1			
3-Nitroaniline	ND		51.00	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		51.00	µg/L	1			
4-Bromophenyl phenyl ether	ND		20.40	µg/L	1			
4-Chloro-3-methylphenol	54.39	M	20.40	µg/L	1			
4-Chloroaniline	ND		20.40	µg/L	1			
4-Chlorophenyl phenyl ether	ND		20.40	µg/L	1			
4-Methylphenol	11.22	J	20.40	µg/L	1			
4-Nitroaniline	ND		51.00	µg/L	1			
4-Nitrophenol	10.22	JM	51.00	µg/L	1			
Acenaphthene	46.98	M	20.40	µg/L	1			
Acenaphthylene	ND		20.40	µg/L	1			
Acetophenone	56.31		20.40	µg/L	1			
Anthracene	ND		20.40	µg/L	1			
Atrazine	ND		20.40	µg/L	1			
Benz(a)anthracene	ND		20.40	µg/L	1			
Benzaldehyde	ND		20.40	µg/L	1			
Benzo(a)pyrene	11.05	J	20.40	µg/L	1			

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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM
% Moist:
Lab ID: 0307090-03CMS **Sample Type:** MS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	20.20	J	20.40	µg/L	1			
Benzo(g,h,i)perylene	4.951	J	20.40	µg/L	1			
Benzo(k)fluoranthene	ND		20.40	µg/L	1			
Benzoic acid	ND		51.00	µg/L	1			
Benzyl alcohol	ND		20.40	µg/L	1			
Bis(2-chloroethoxy)methane	ND		20.40	µg/L	1			
Bis(2-chloroethyl)ether	ND		20.40	µg/L	1			
Bis(2-ethylhexyl)phthalate	ND		20.40	µg/L	1			
Butyl benzyl phthalate	ND		20.40	µg/L	1			
Caprolactam	ND		20.40	µg/L	1			
Carbazole	ND		20.40	µg/L	1			
Chrysene	ND		20.40	µg/L	1			
Di-n-butyl phthalate	ND		20.40	µg/L	1			
Di-n-octyl phthalate	ND		20.40	µg/L	1			
Dibenz(a,h)anthracene	ND		20.40	µg/L	1			
Dibenzofuran	ND		20.40	µg/L	1			
Diethyl phthalate	ND		20.40	µg/L	1			
Dimethyl phthalate	ND		20.40	µg/L	1			
Fluoranthene	9.516	J	20.40	µg/L	1			
Fluorene	26.20		20.40	µg/L	1			
Hexachlorobenzene	ND		20.40	µg/L	1			
Hexachlorobutadiene	ND		20.40	µg/L	1			
Hexachlorocyclopentadiene	ND		51.00	µg/L	1			
Hexachloroethane	ND		20.40	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		20.40	µg/L	1			
Isophorone	ND		20.40	µg/L	1			
N-Nitrosodi-n-propylamine	43.65		20.40	µg/L	1			
N-Nitrosodimethylamine	ND		20.40	µg/L	1			
N-Nitrosodiphenylamine	ND		20.40	µg/L	1			
Naphthalene	127.1		20.40	µg/L	1			
Nitrobenzene	ND		20.40	µg/L	1			
Pentachlorophenol	58.76		51.00	µg/L	1			
Phenanthrene	72.15		20.40	µg/L	1			
Phenol	33.06		20.40	µg/L	1			
Pyrene	83.04	M	20.40	µg/L	1			
Surr:2,4,6-Tribromophenol	123		32 - 162	%REC	1	7/18/2003 5:47:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	58		38 - 129	%REC	1			

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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM
% Moist:
Lab ID: 0307090-03CMS **Sample Type:** MS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	52		15 - 142	%REC	1			
Surr:Nitrobenzene-d5	89		45 - 118	%REC	1			
Surr:Phenol-d5	82		18 - 136	%REC	1			
Surr:Terphenyl-d14	130		10 - 154	%REC	1			

Data File: /var/chem/molly.i/0307184m1r.b/m8367.d

Date : 18-JUL-2003 17:47

Client ID:

Instrument: molly.i

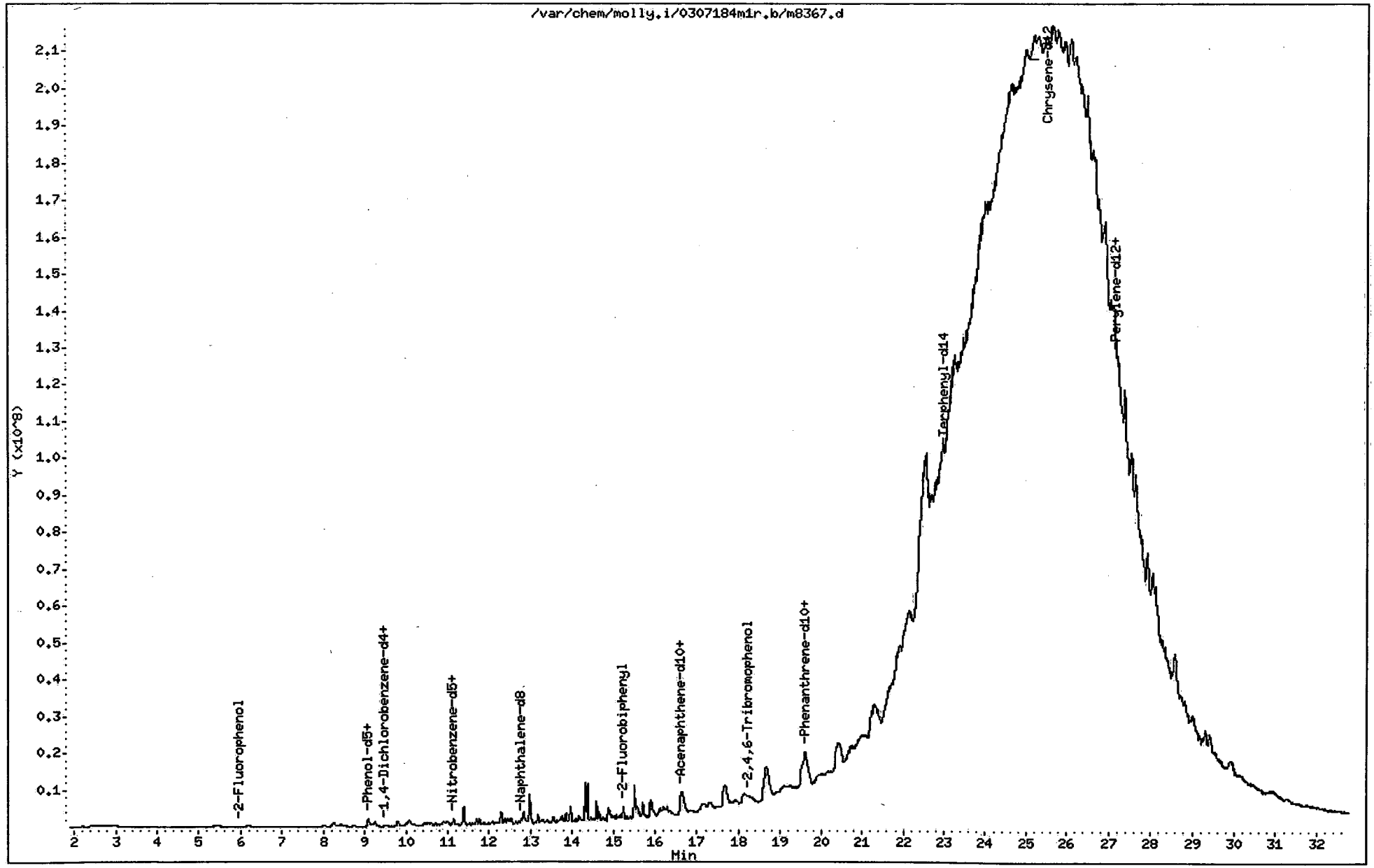
Sample Info: 0307090-03CMS

Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8367.d
Lab Smp Id: 0307090-03CMS
Inj Date : 18-JUL-2003 17:47
Operator : dce Inst ID: molly.i
Smp Info : 0307090-03CMS
Misc Info : 0307184m1r;comx40;{},1_8270C_3520C_TCL_W,MS
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	980.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.996	5.995	(0.632)	133079	31.3292	32.0
$ 6 Phenol-d5	99	9.142	9.121	(0.963)	301758	49.3794	50.4
7 Phenol	94	9.183	9.162	(0.967)	223268	32.4012	33.1
9 2-Chlorophenol	128	9.121	9.111	(0.961)	122404	25.7343	26.2
* 11 1,4-Dichlorobenzene-d4	152	9.494	9.494	(1.000)	134878	40.0000	
12 1,4-Dichlorobenzene	146	9.535	9.545	(1.004)	118756	21.8459	22.3
14 1,2-Dichlorobenzene	146	10.084	10.073	(1.062)	29838	5.70133	5.82(aQ)
15 2-Methylphenol	108	10.757	10.736	(1.133)	45303	9.34451	9.54(a)
17 Acetophenone	105	10.777	10.767	(1.135)	450753	55.1877	56.3
18 4-Methylphenol	108	11.212	11.129	(1.181)	58164	10.9974	11.2(a)
19 N-Nitrosodi-n-propylamine	70	10.891	10.891	(1.147)	210851	42.7746	43.6
$ 21 Nitrobenzene-d5	82	11.129	11.129	(0.871)	339848	44.5422	45.4(R)
25 2,4-Dimethylphenol	107	12.351	12.319	(0.967)	109927	15.6551	16.0(aQ)

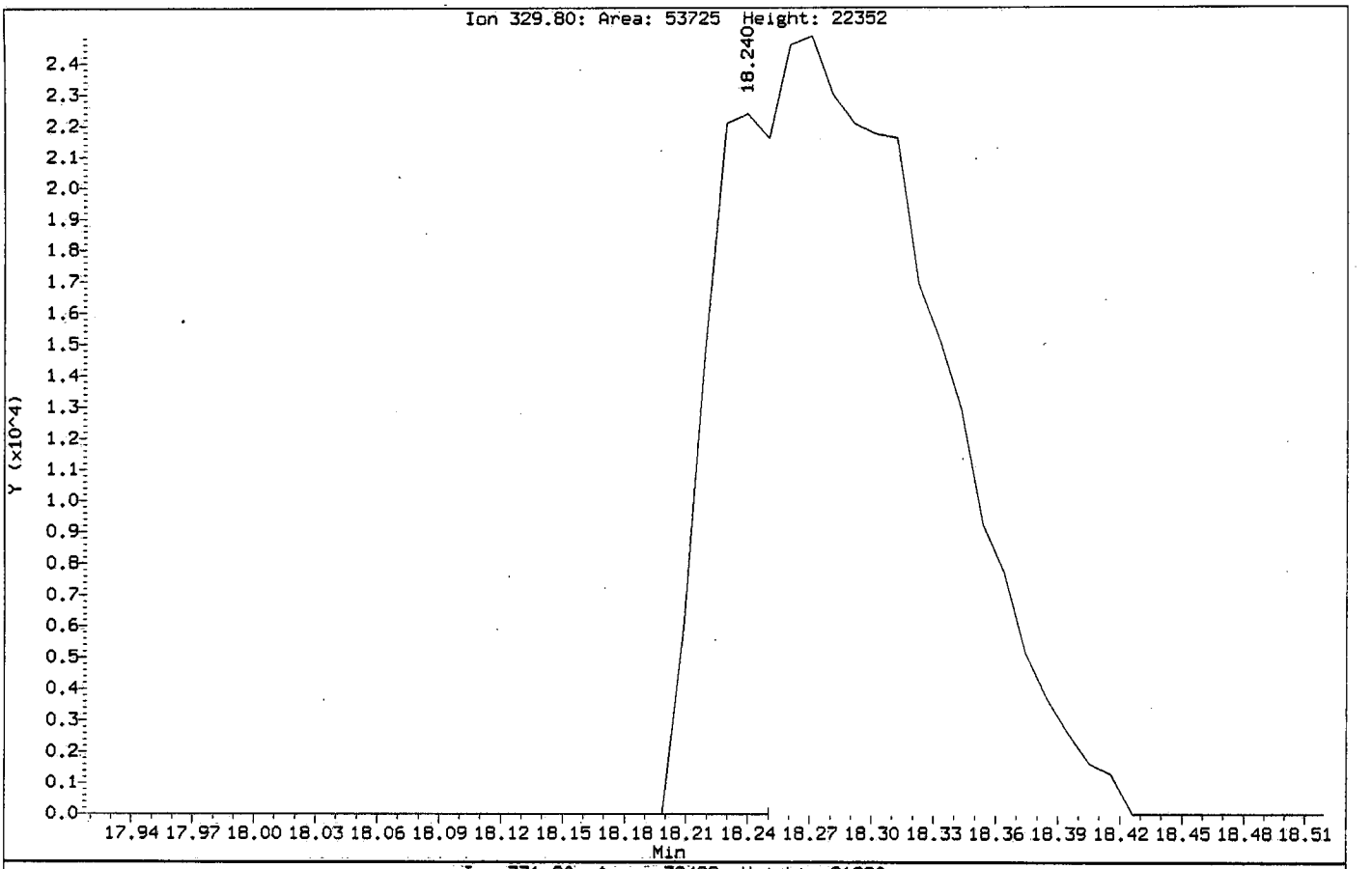
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
	29 1,2,4-Trichlorobenzene	180	12.713	12.713	(0.995)	151045	27.5886	28.2	
*	30 Naphthalene-d8	136	12.775	12.775	(1.000)	561076	40.0000		
	31 Naphthalene	128	12.827	12.816	(1.004)	2031986	124.571	127	
	35 4-chloro-3-methylphenol	107	14.389	14.389	(1.126)	336718	53.2990	54.4(Q)	
	36 2-Methylnaphthalene	141	14.379	14.369	(1.126)	3186677	329.036	336(A)	
$	40 2-Fluorobiphenyl	172	15.228	15.228	(0.919)	539460	28.8818	29.5(R)	
	42 Biphenyl	154	15.404	15.393	(0.929)	293203	13.1263	13.4	
*	47 Acenaphthene-d10	164	16.573	16.563	(1.000)	551569	40.0000		
	49 Acenaphthene	153	16.635	16.635	(1.004)	815337	46.0375	47.0	
	51 4-Nitrophenol	109	17.319	17.298	(1.045)	42646	10.0156	10.2(aQ)	
	53 2,4-Dinitrotoluene	165	17.153	17.122	(1.035)	394835	56.0110	57.2	
	55 Fluorene	166	17.712	17.670	(1.069)	532378	25.6779	26.2	
$	60 2,4,6-Tribromophenol	330	18.271	18.219	(1.102)	186514	73.9525	75.5(M)	DLE 7/21/03
	64 Pentachlorophenol	266	19.451	19.368	(0.993)	237330	57.5831	58.8(M)	DLE 7/21/03
*	65 Phenanthrene-d10	188	19.585	19.544	(1.000)	1709345	40.0000		
	66 Phenanthrene	178	19.658	19.585	(1.004)	3546878	70.7079	72.2	
	70 Fluoranthene	202	22.049	21.997	(1.126)	571315	9.32593	9.52(aQ)	
	72 Pyrene	202	22.576	22.431	(1.000)	7020916	81.3838	83.0(QM)	DLE 7/21/03
$	73 Terphenyl-d14	244	22.990	22.835	(0.000)	3540239	65.2166	66.5(M)	DLE 7/21/03
*	77 Chrysene-d12	240	25.029	24.812	(1.000)	3128708	40.0000	(QM)	DLE 7/21/03
	81 Benzo(b)fluoranthene	252	26.634	26.406	(0.980)	1672006	19.7916	20.2	
	83 Benzo(a)pyrene	252	27.089	26.861	(0.997)	805791	10.8266	11.0(H)	
*	84 Perylene-d12	264	27.172	26.944	(1.000)	1755119	40.0000		
	87 Benzo(g,h,i)perylene	276	29.573	29.356	(1.088)	339290	4.85222	4.95(aQ)	

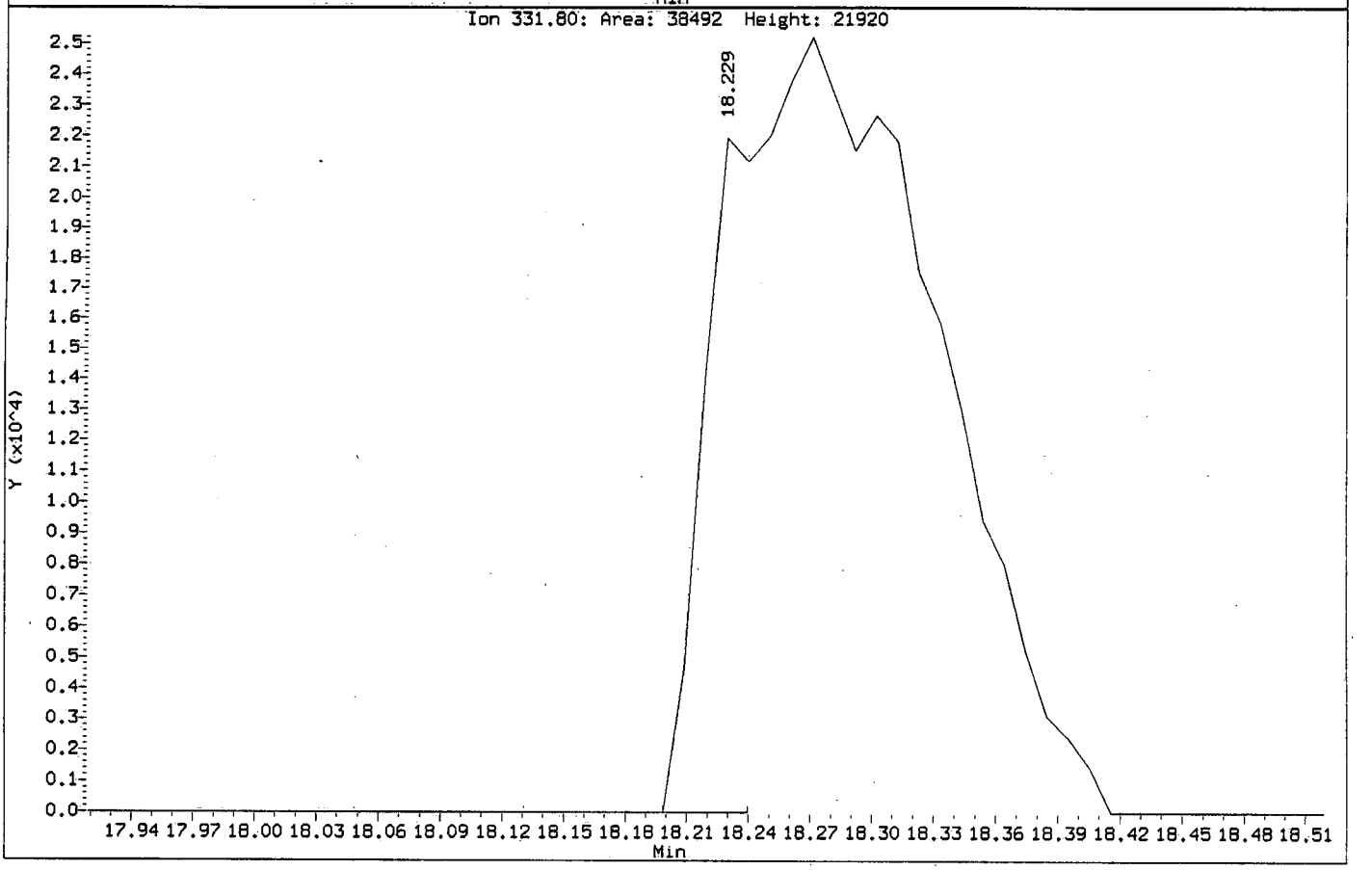
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6

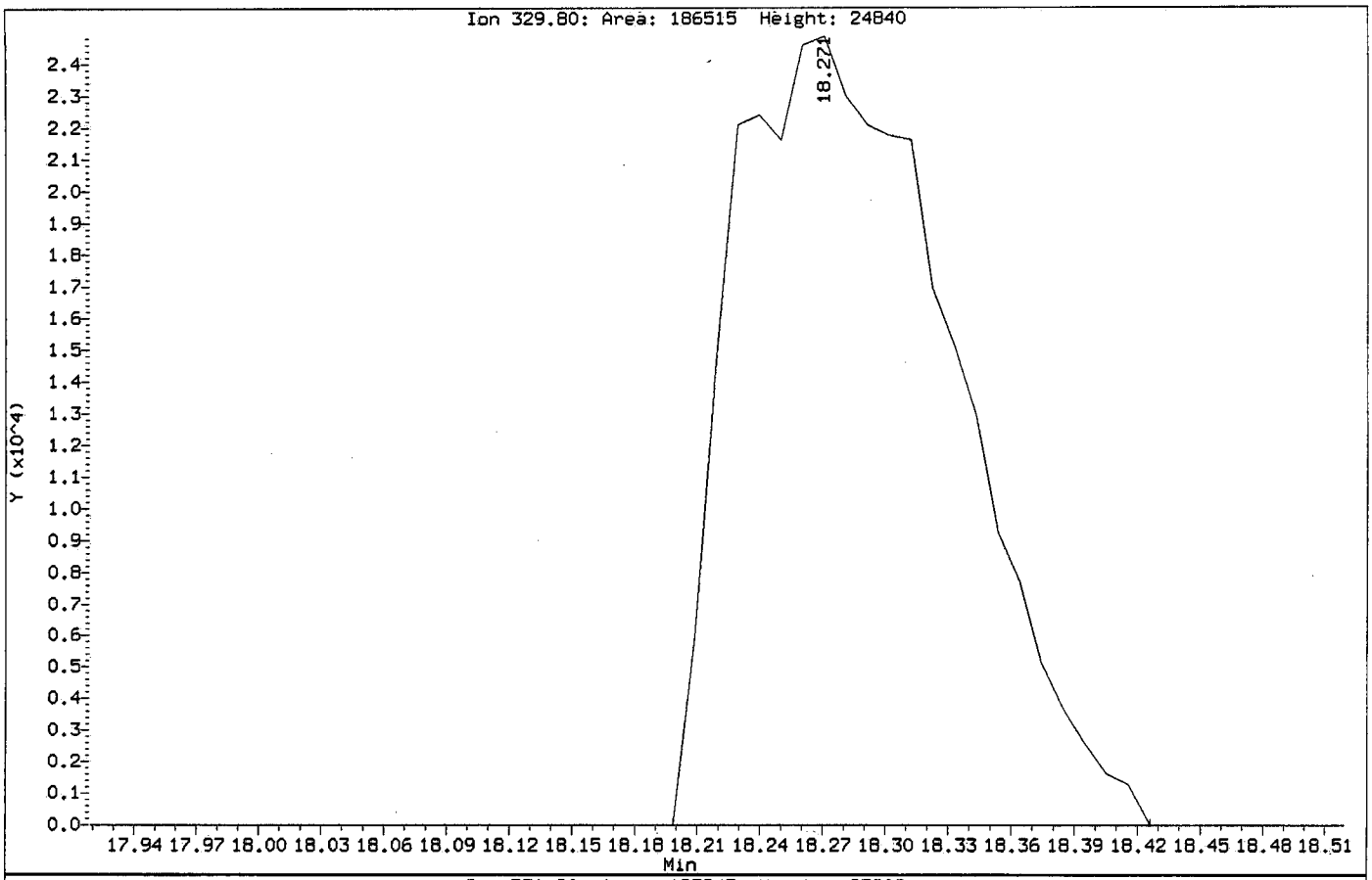


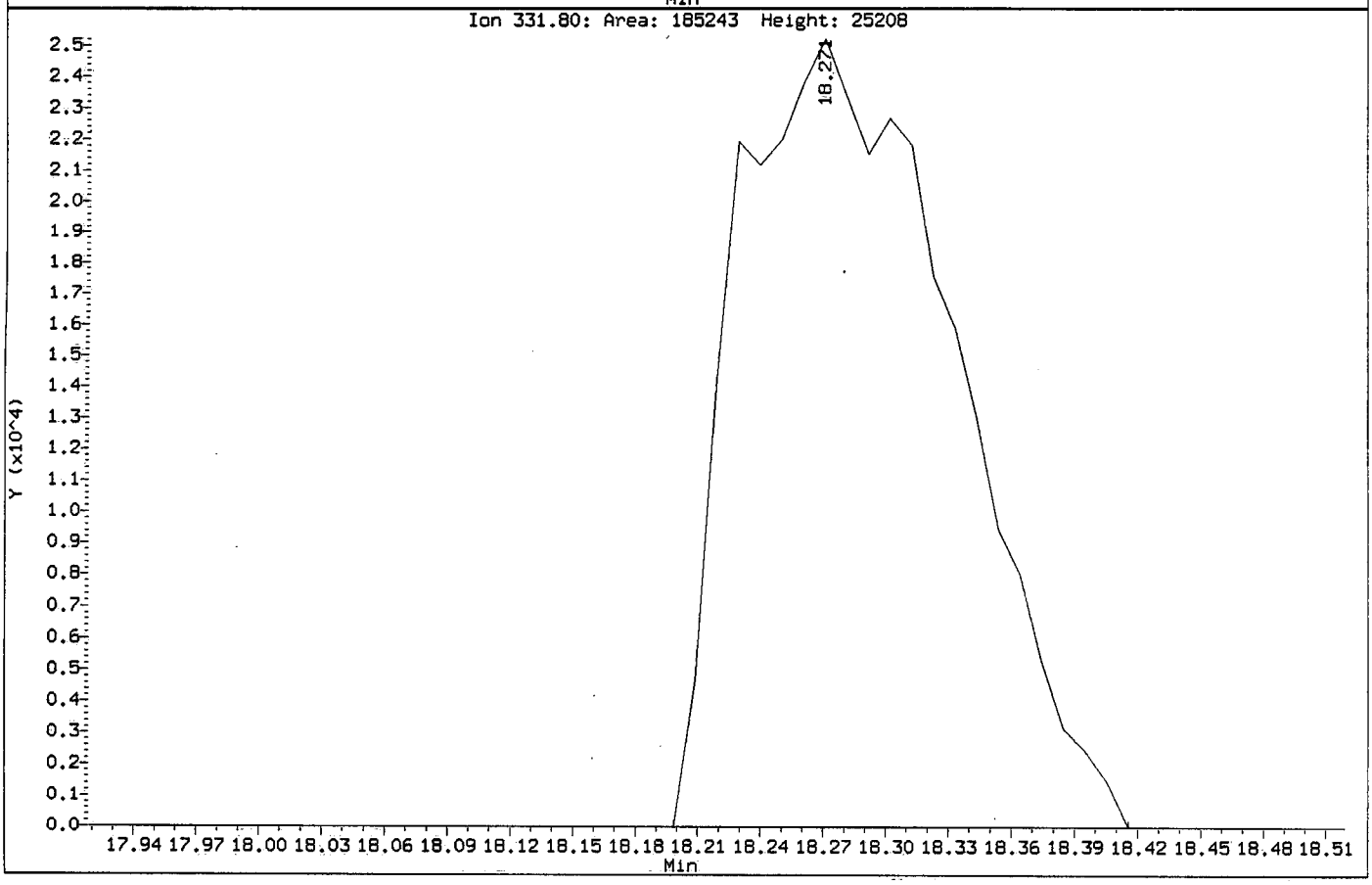


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6

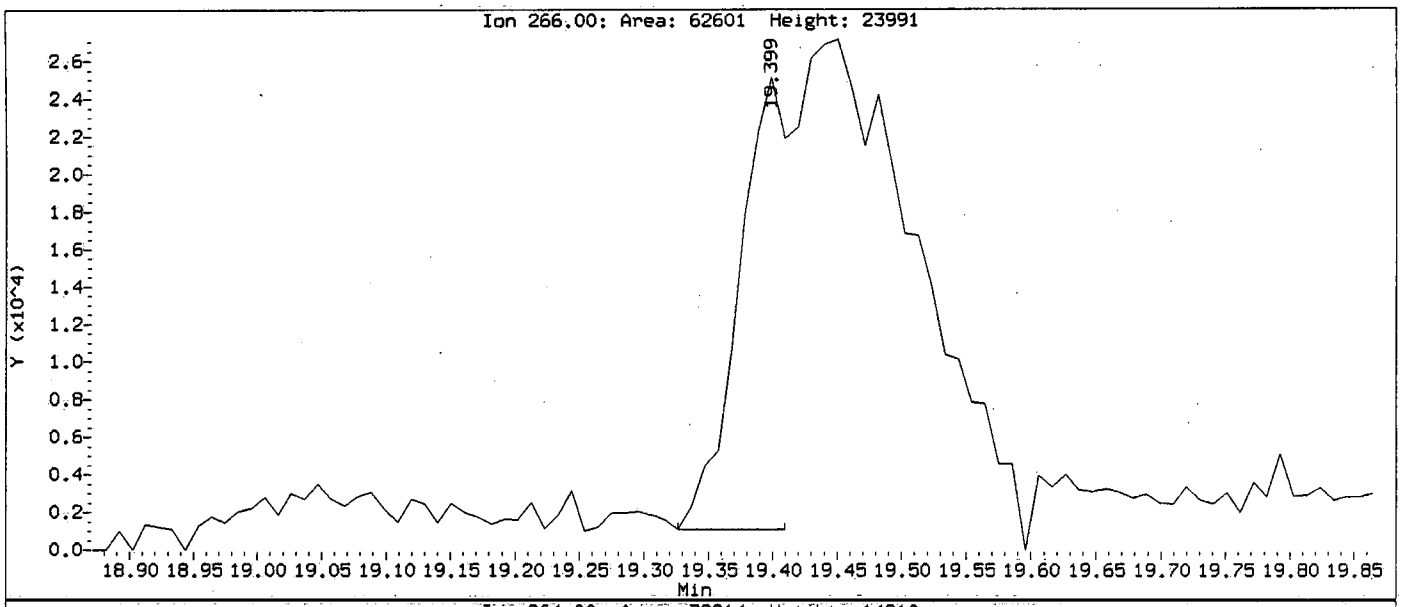
Paul L E 7/21/03
integrate entire area
Kathy Kubert 7/21/03

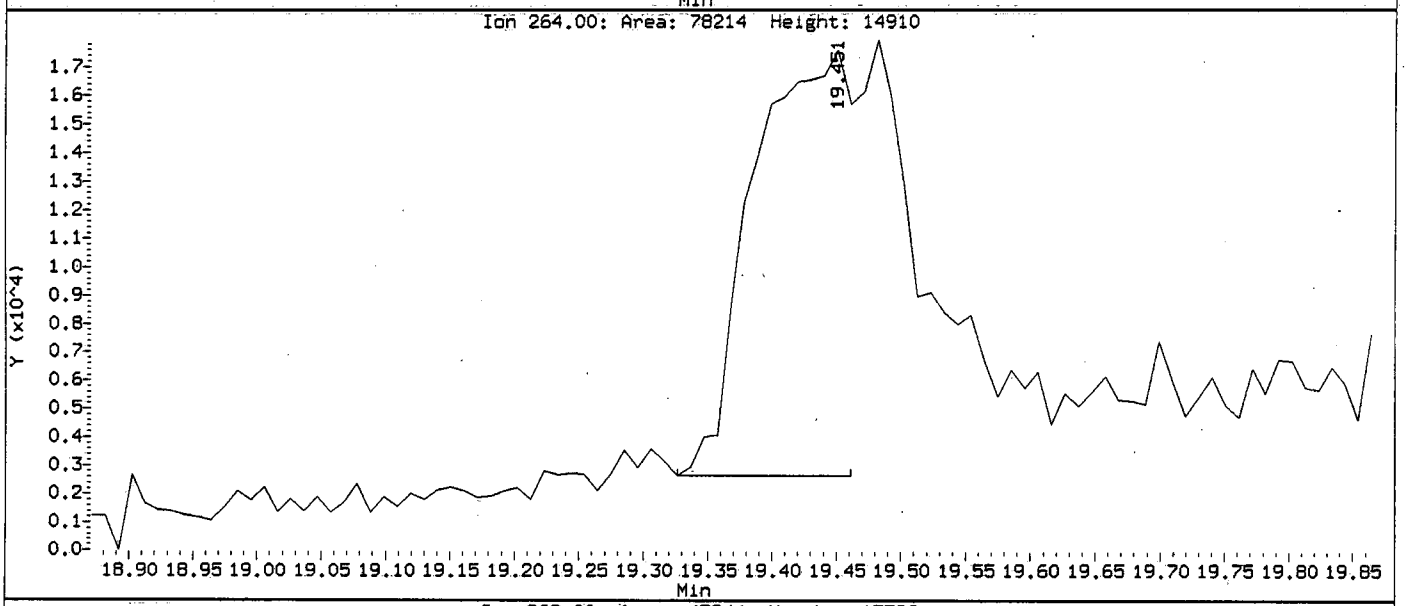


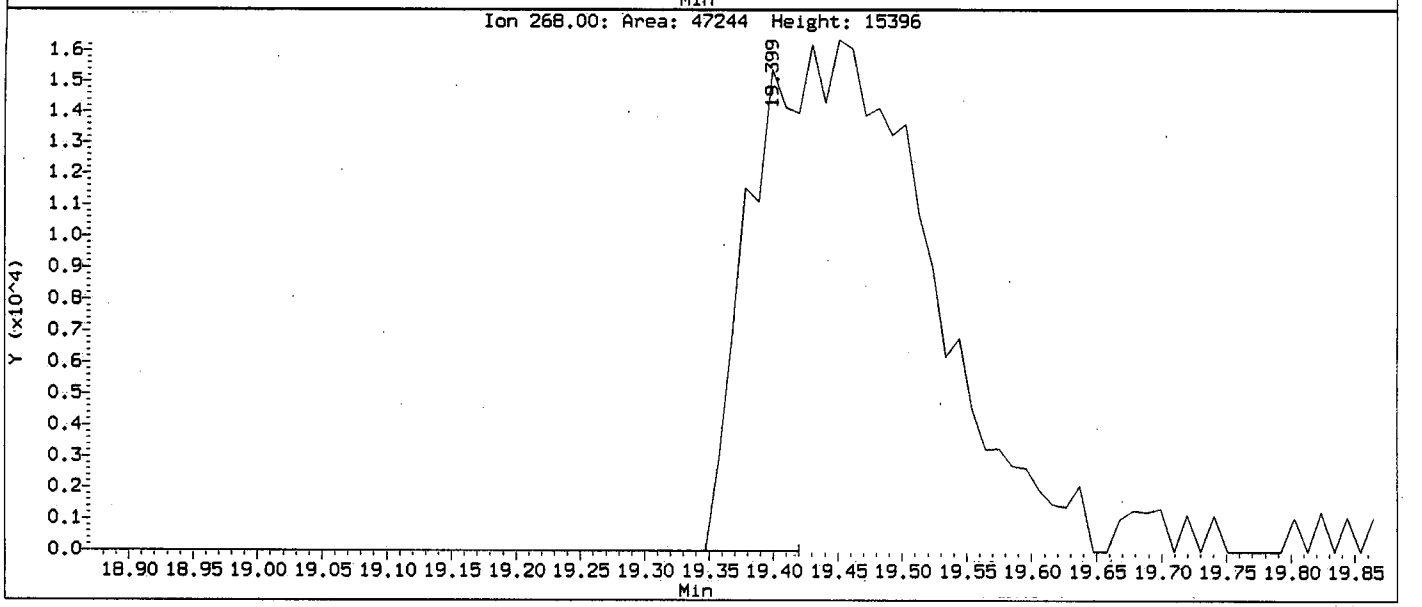


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



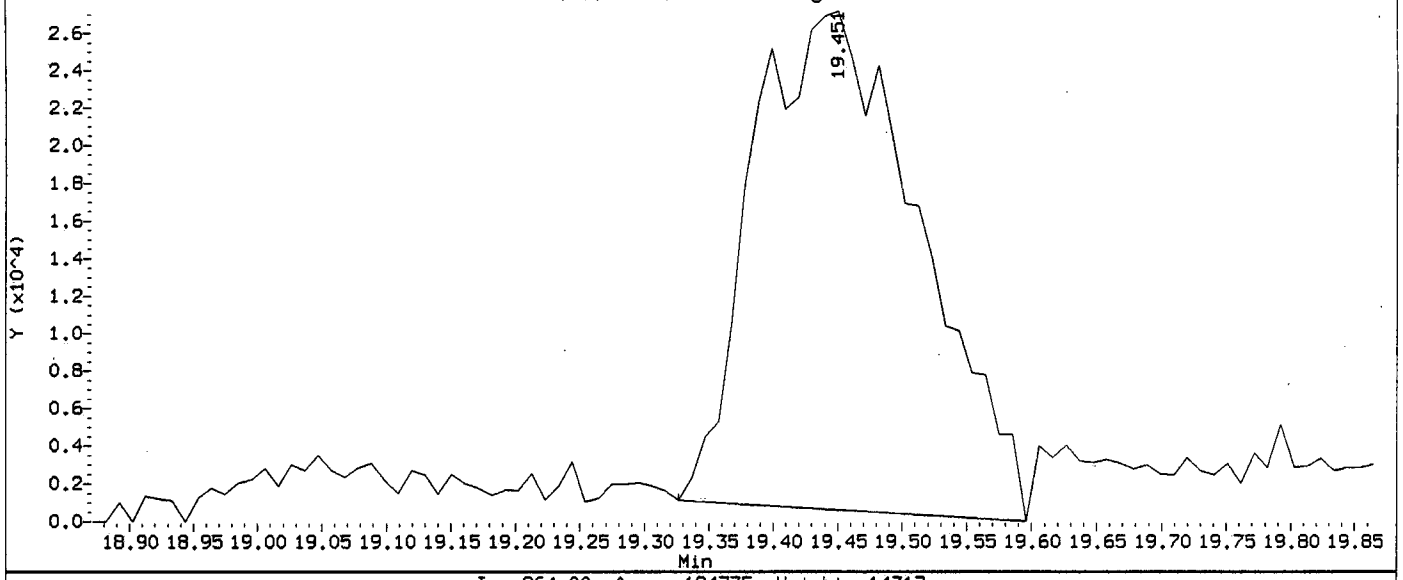




Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

Ion 266.00: Area: 237331 Height: 26512



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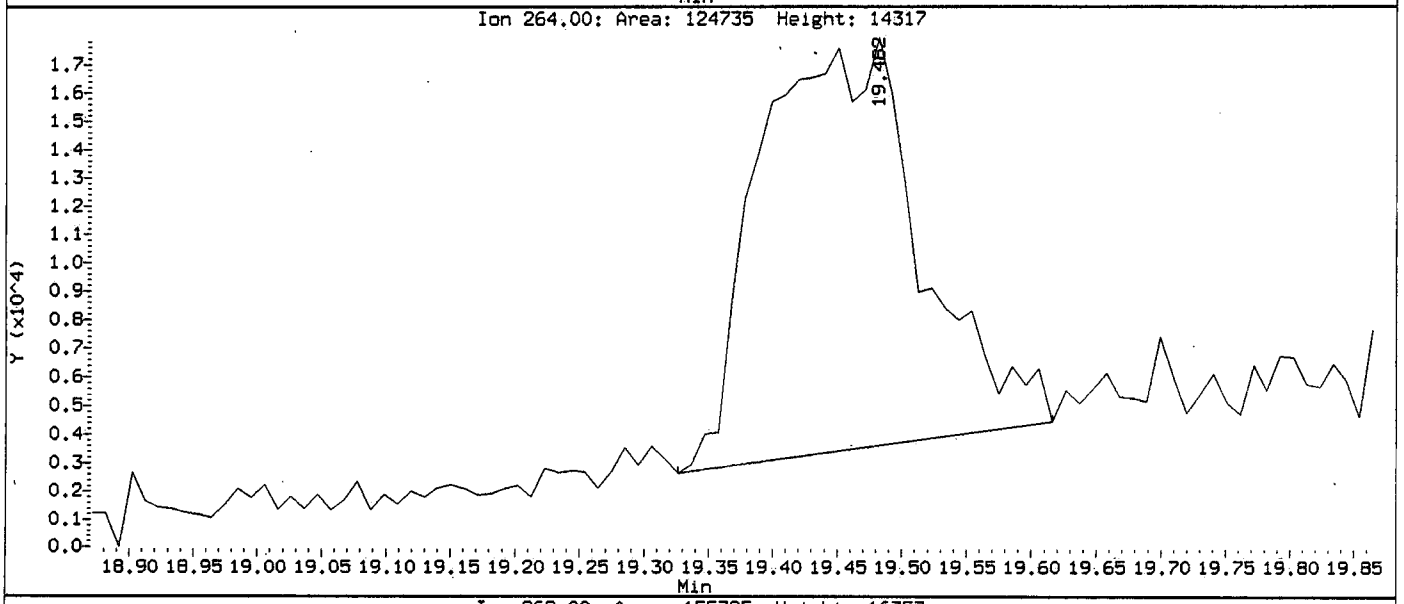

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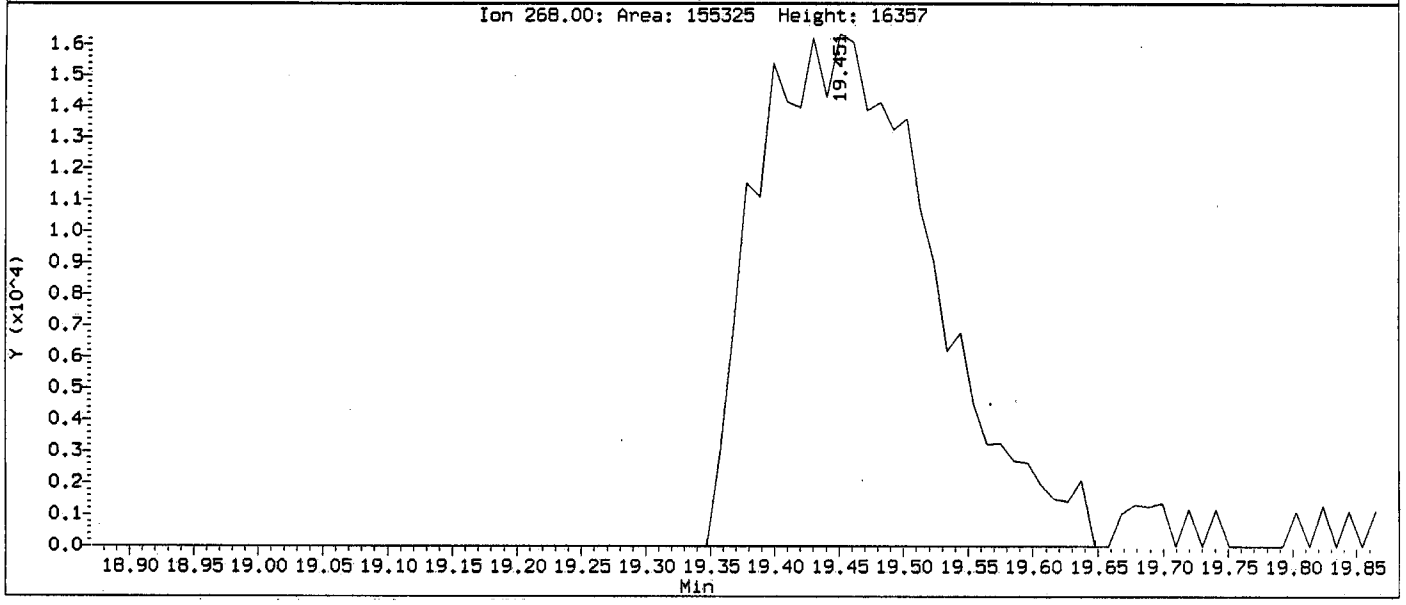
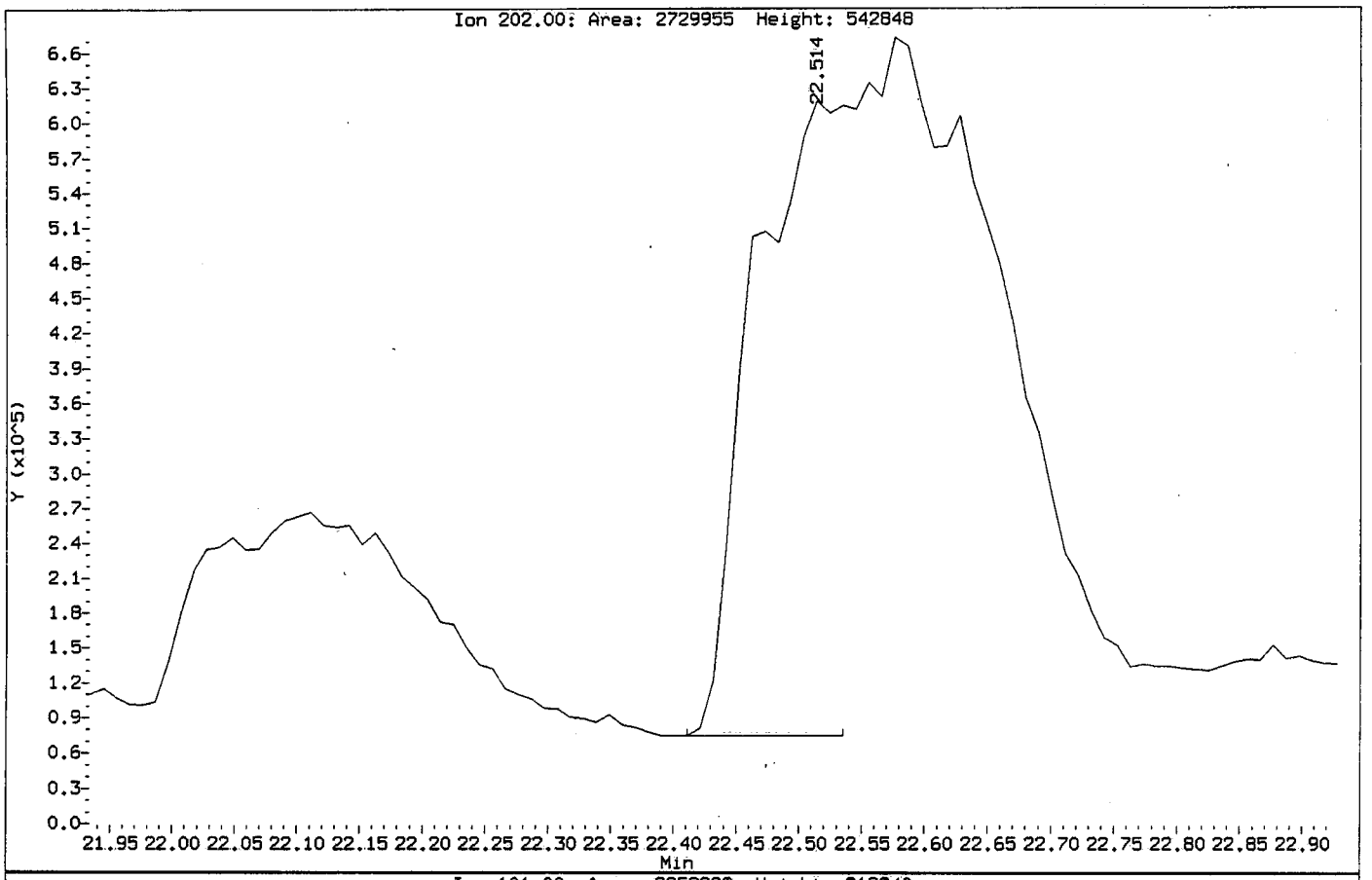
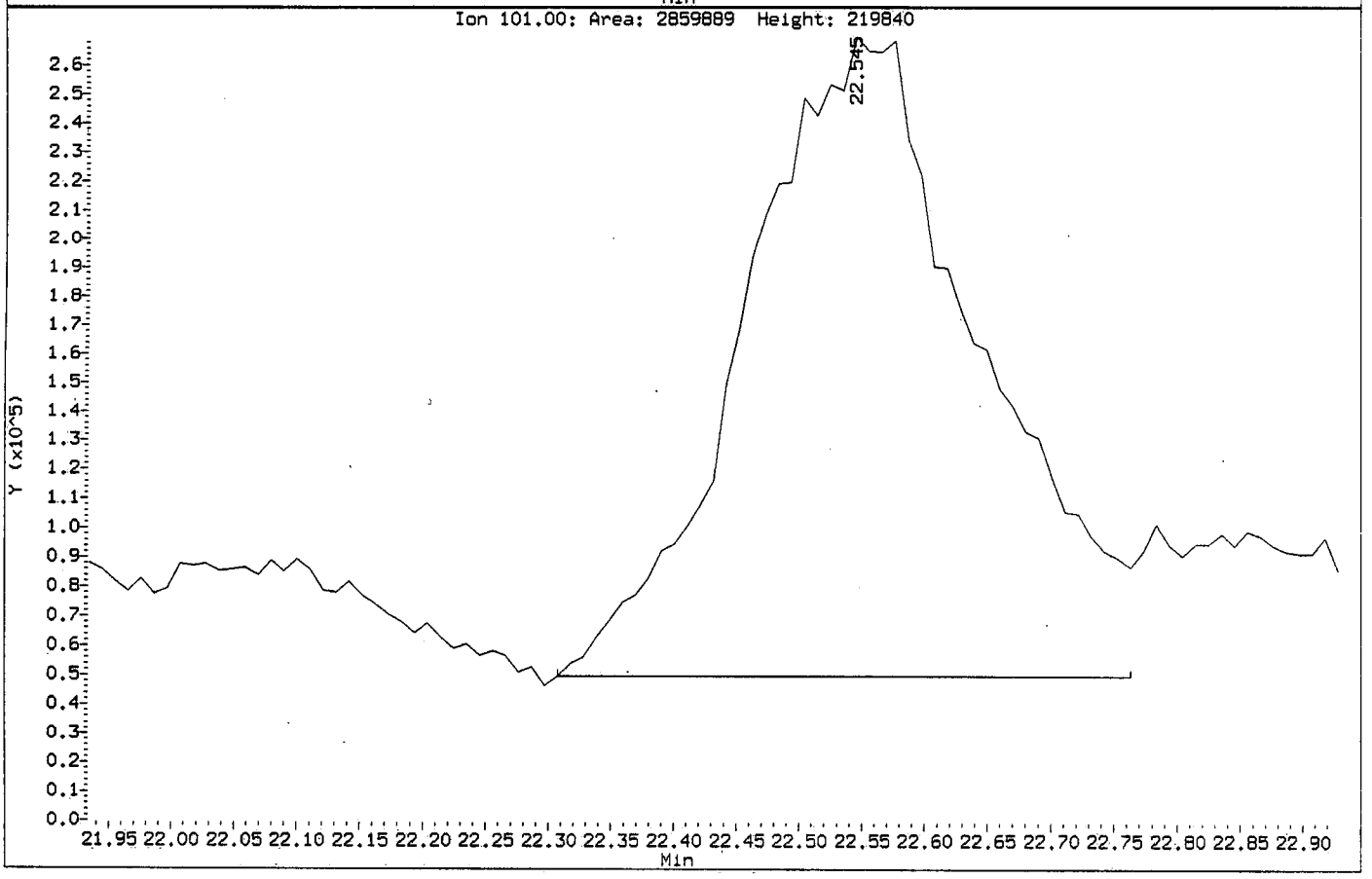


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Pyrene
CAS Number: 129-00-0

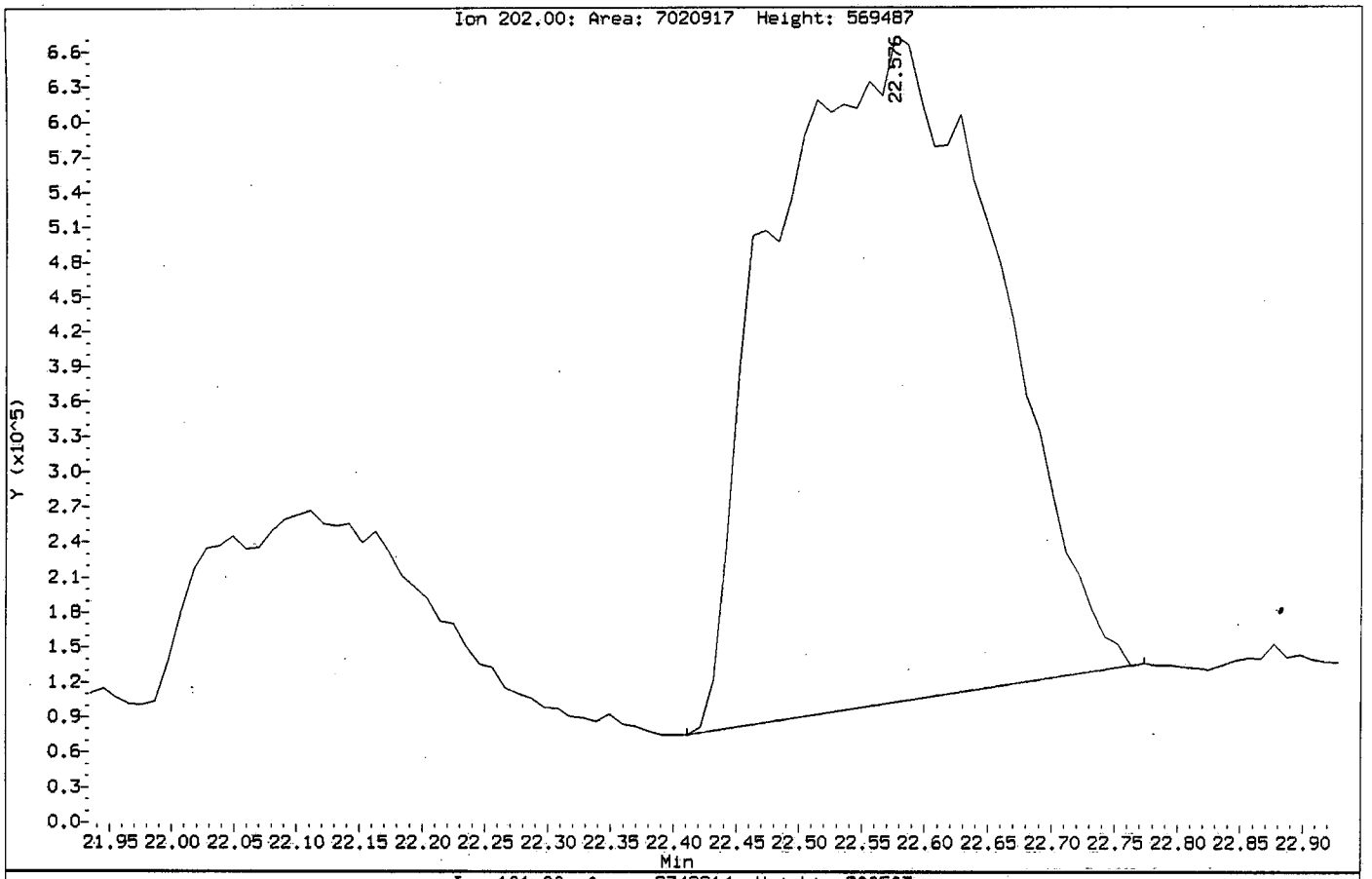


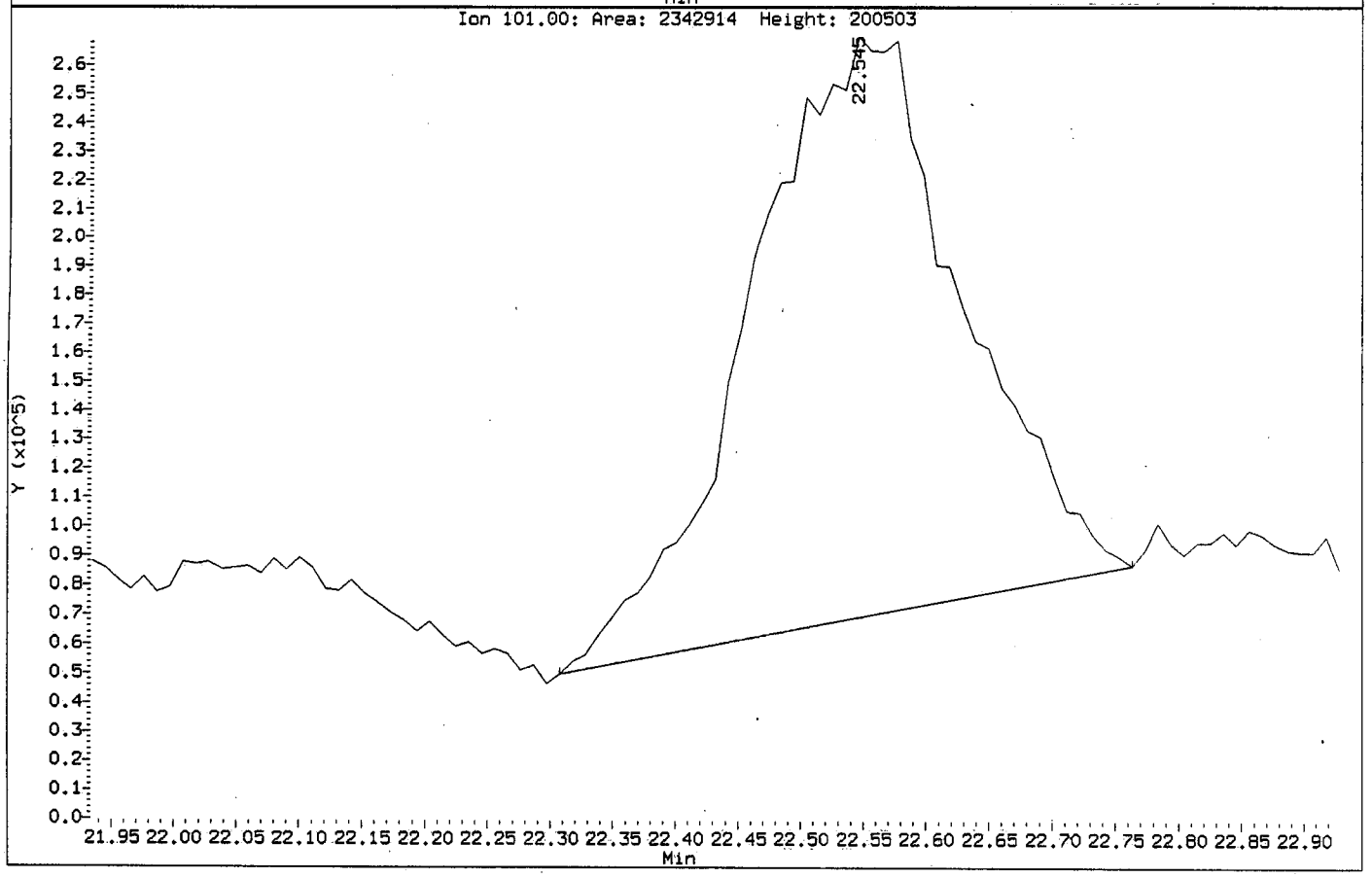


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Pyrene
CAS Number: 129-00-0

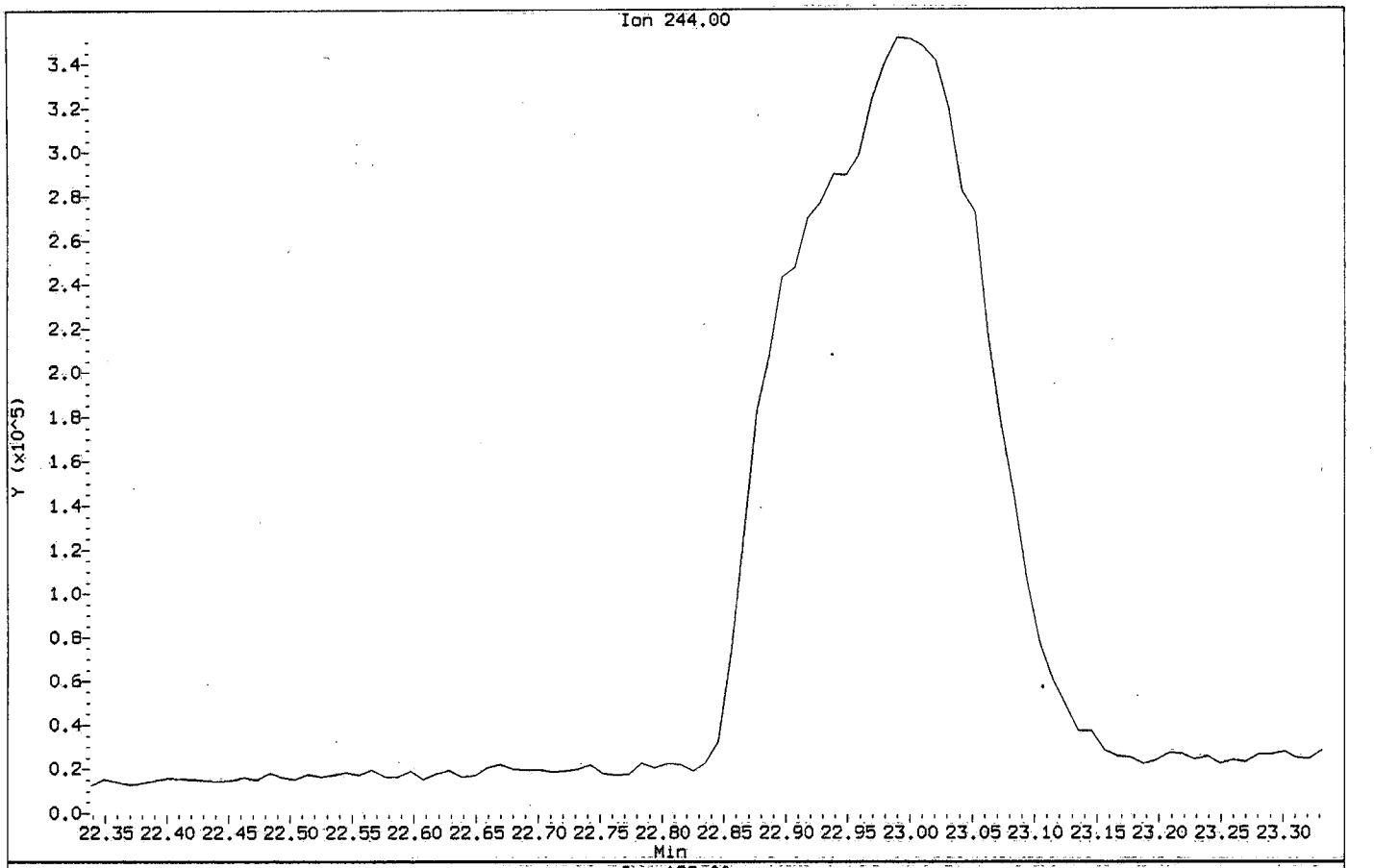
AKK & 7/21/03
integrate entire area
Kathy Kuhrt 7/21/03

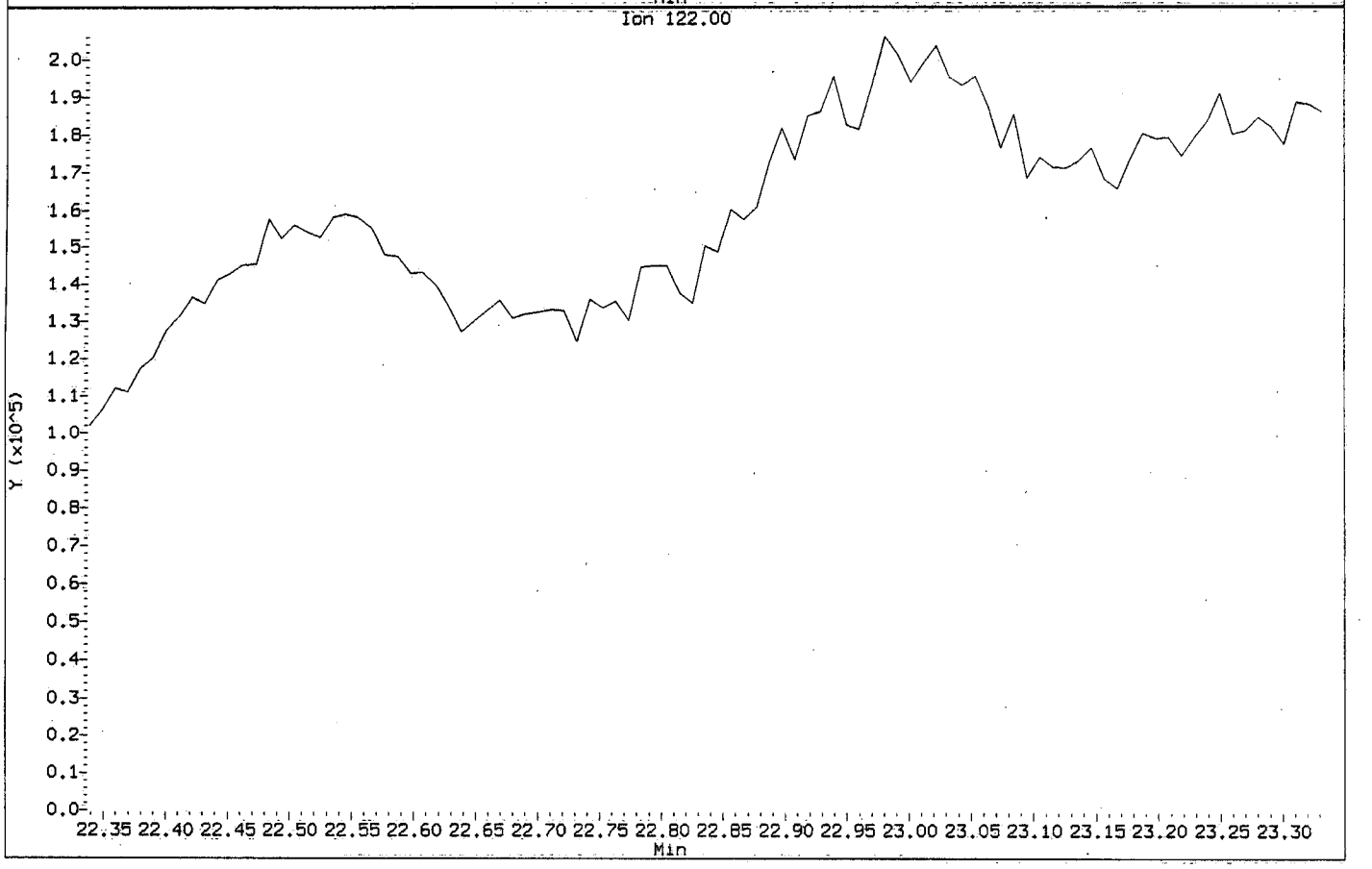




Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

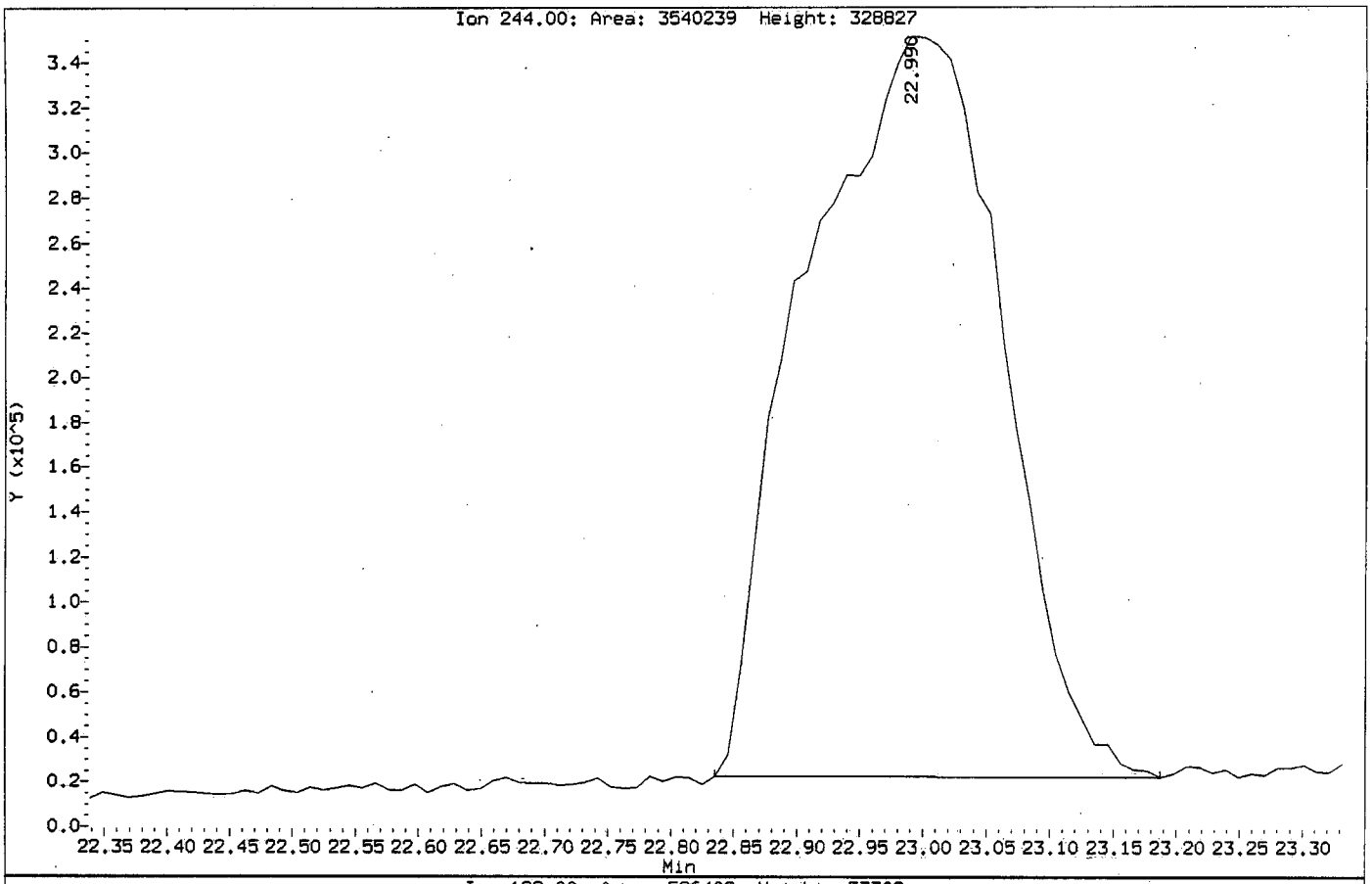


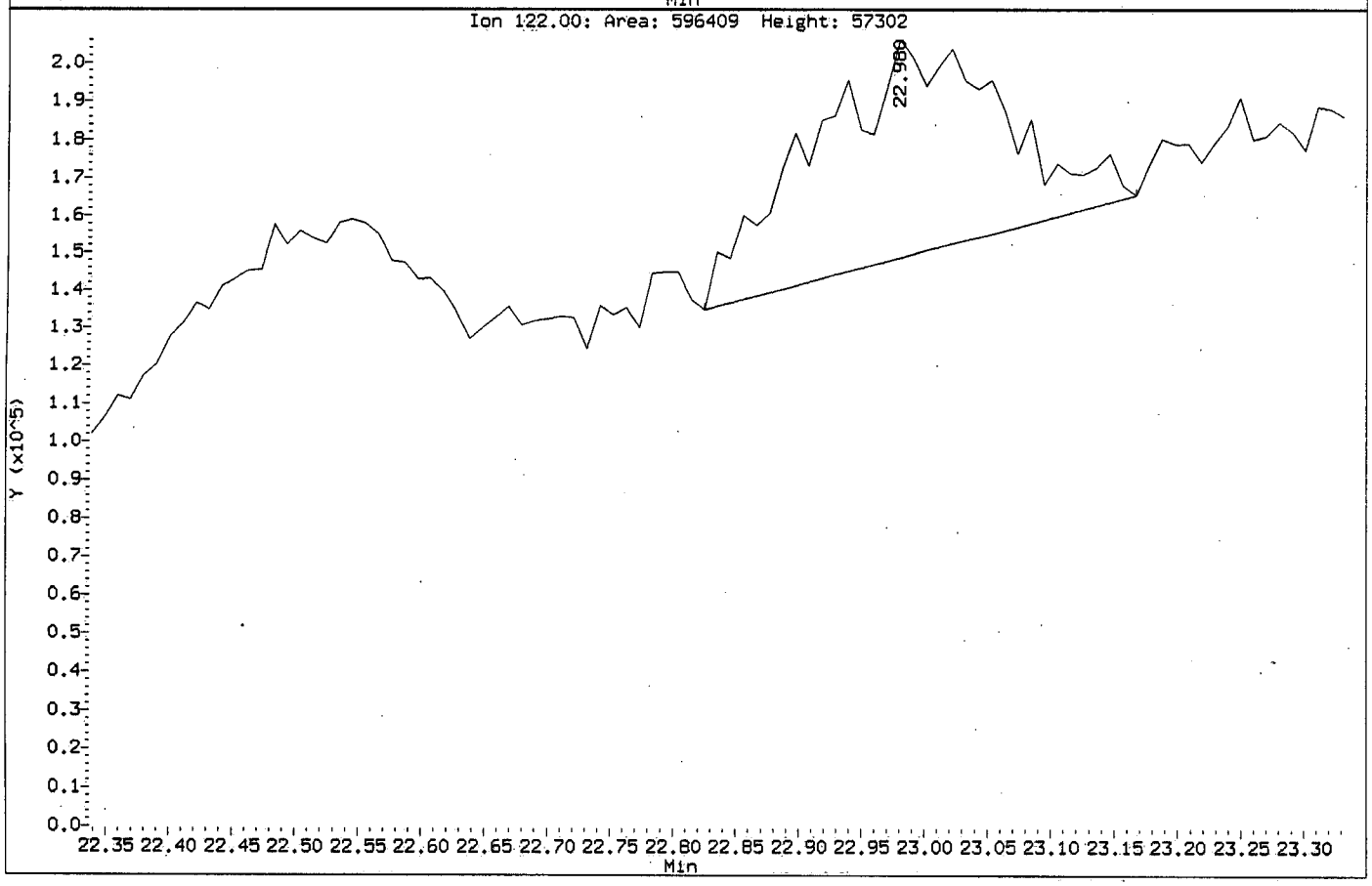


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

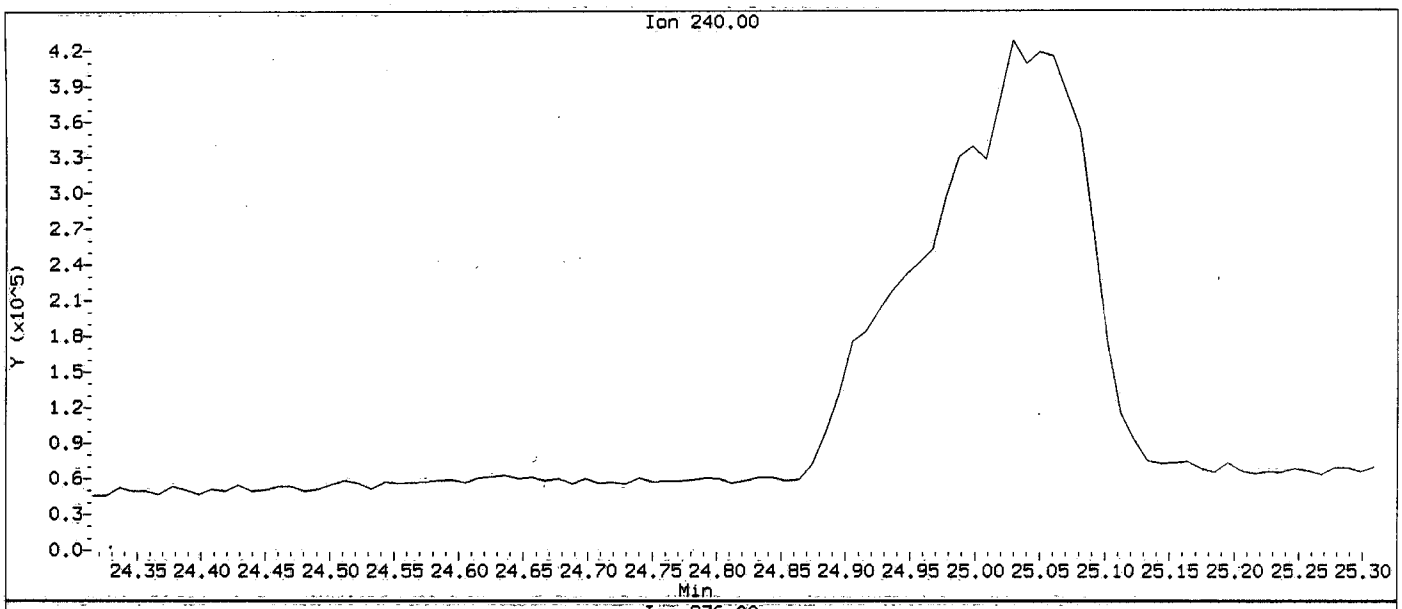
RLC 2 7/21/03
not originally integrated
Kathy Kuhl 7/21/03

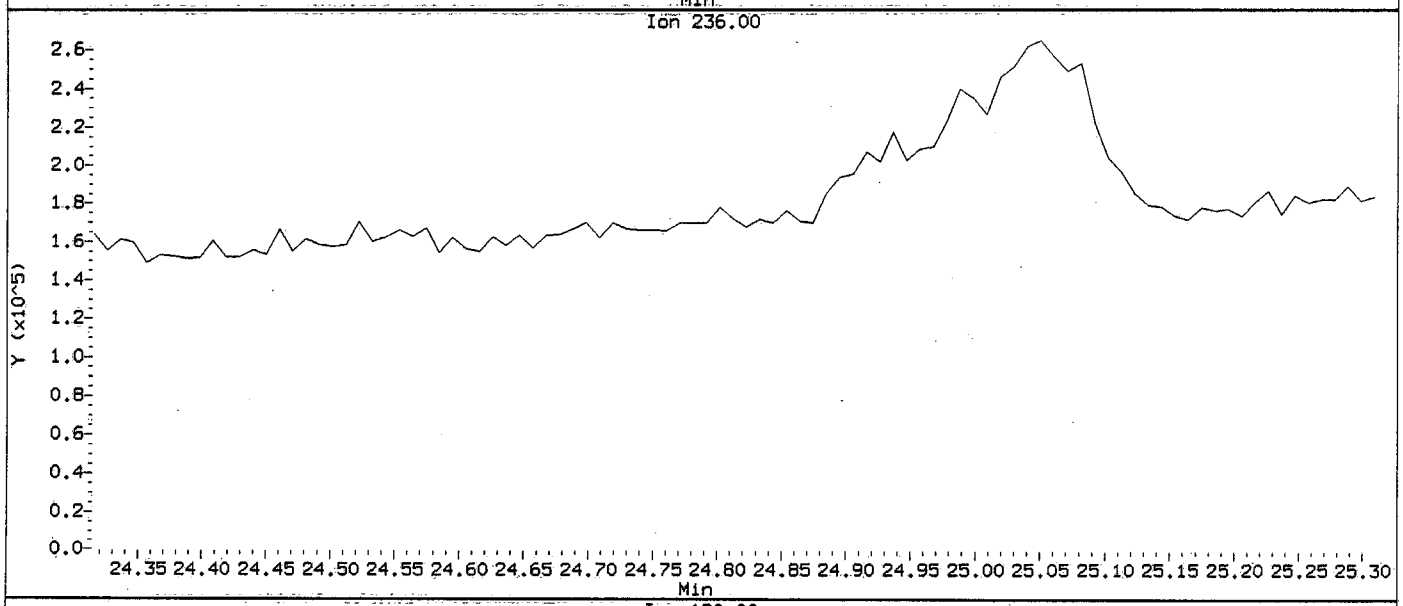


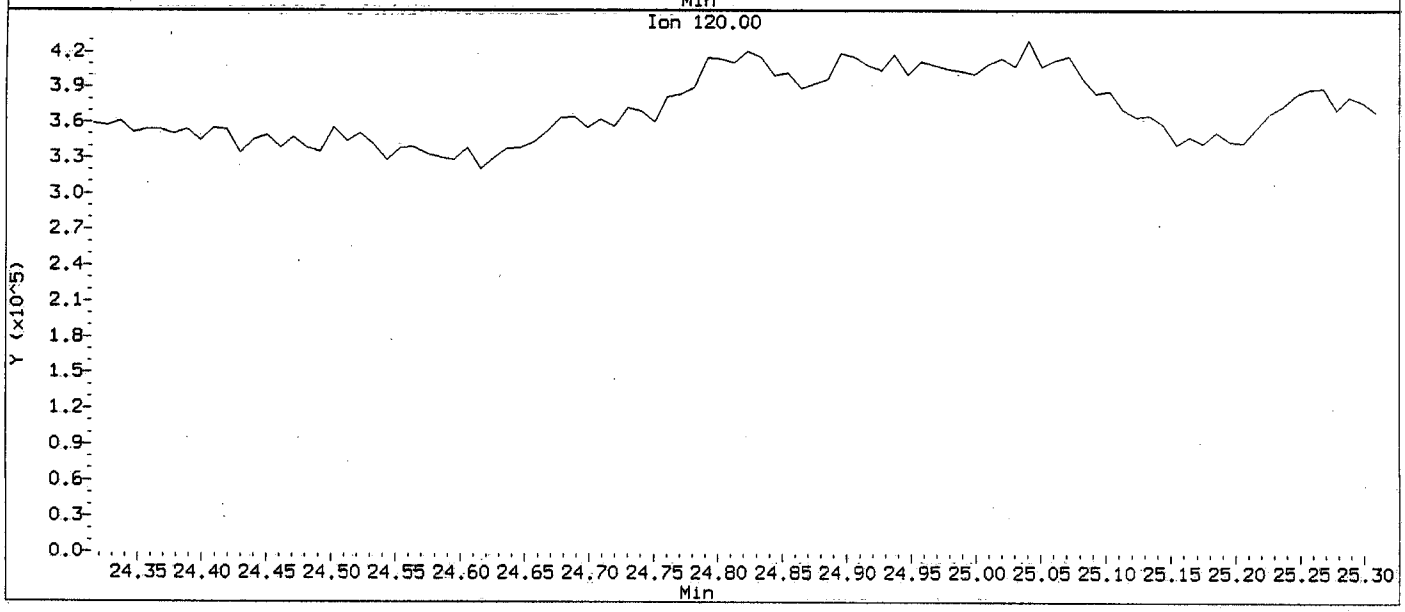


Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5



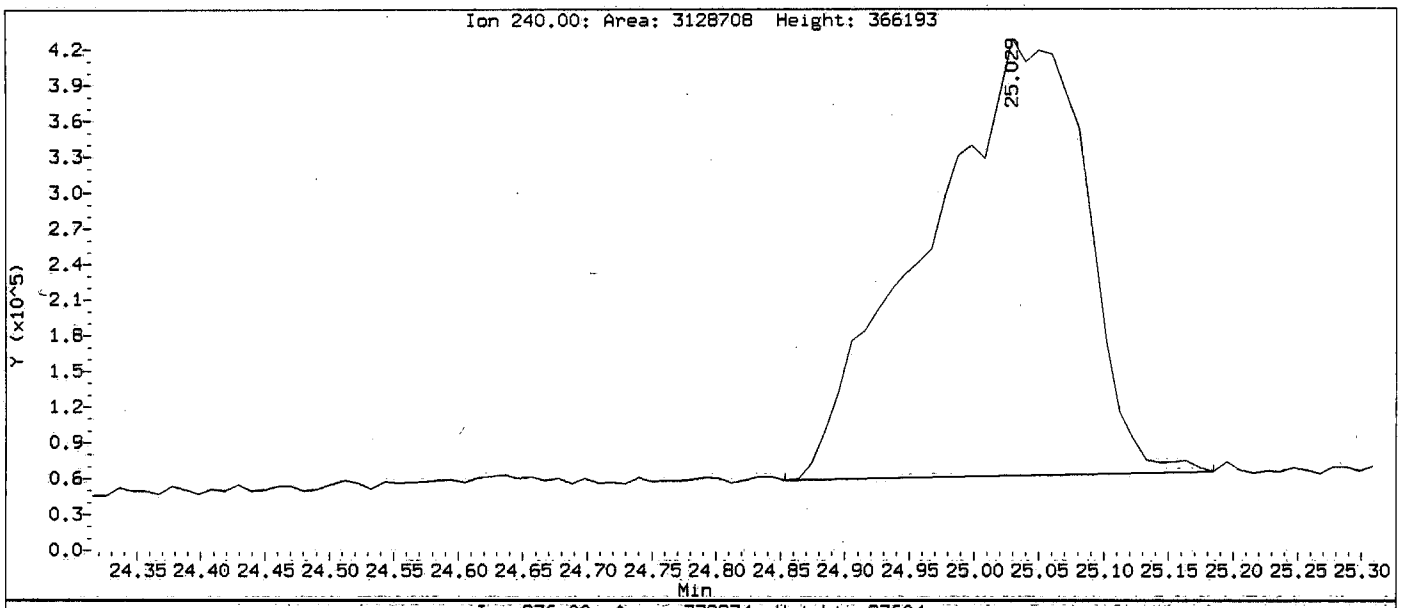




Data File: /var/chem/molly.i/0307184m1r.b/m8367.d
Injection Date: 18-JUL-2003 17:47
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5

Ion 240.00: Area: 3128708 Height: 366193



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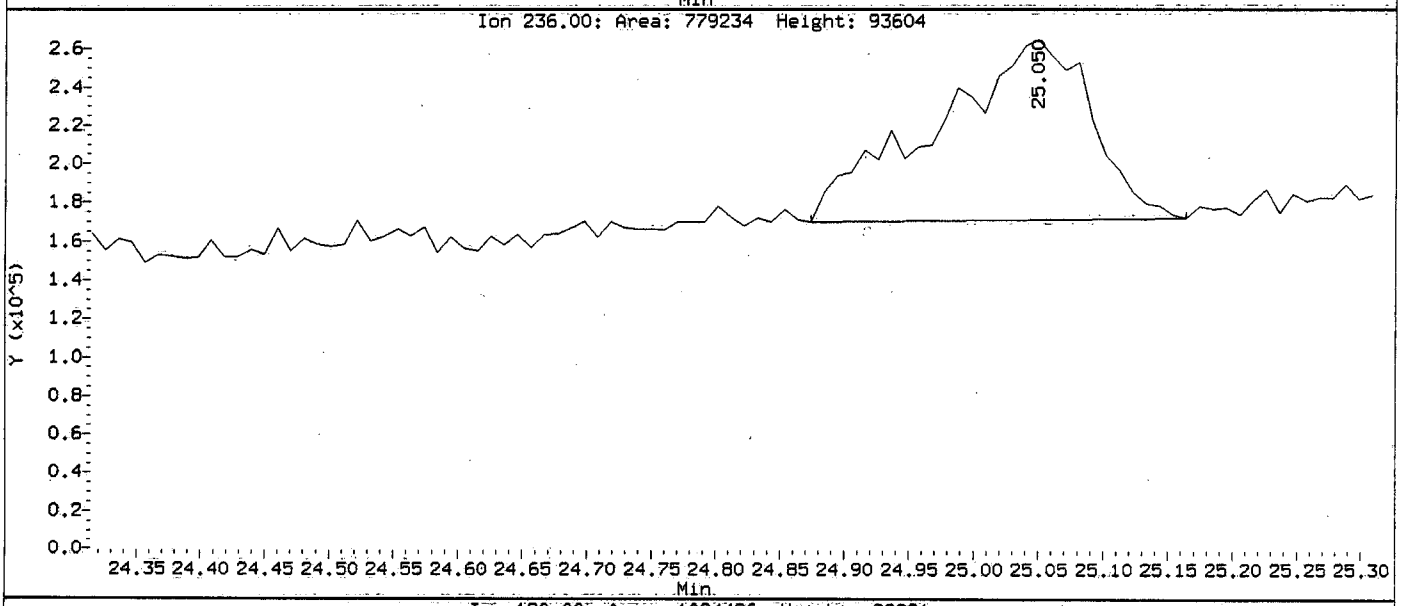

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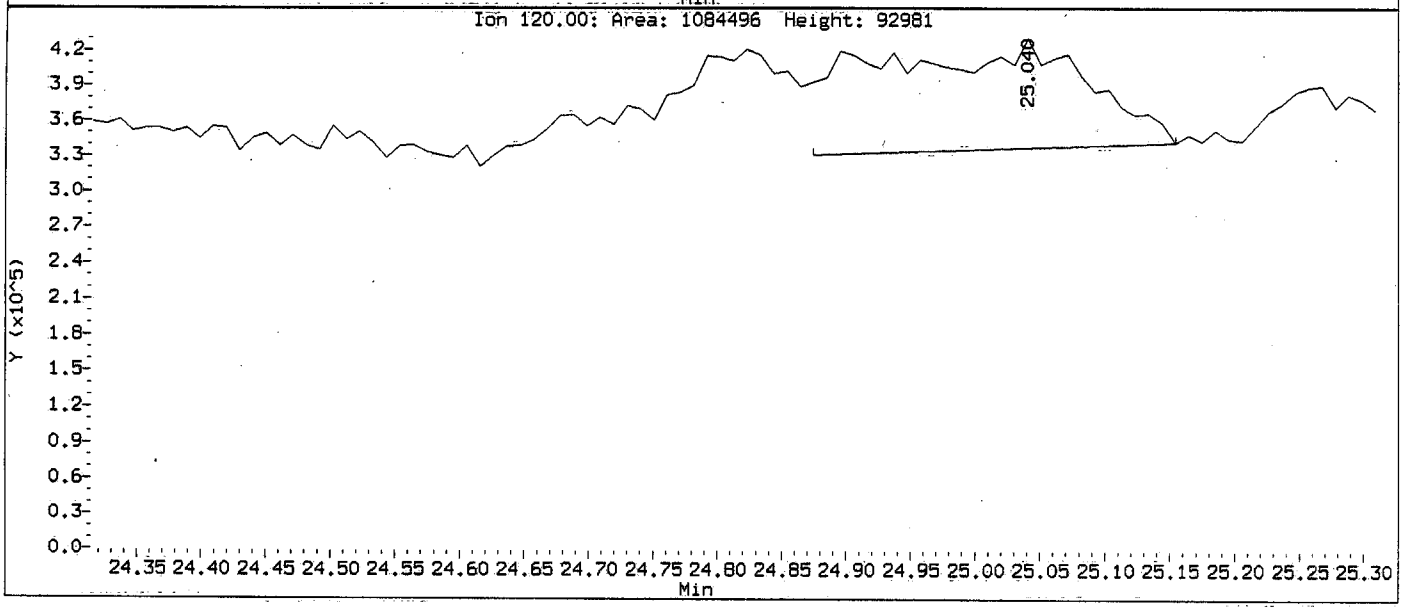


721

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-03CMSD **Sample Type:** MSD **Matrix:** Water

Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM **% Moist:**
Test Code: 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	9.200	J	18.70	µg/L	1	7/18/2003 6:26:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	31.48		18.70	µg/L	1			
1,2-Dichlorobenzene	4.660	J	18.70	µg/L	1			
1,3-Dichlorobenzene	ND		18.70	µg/L	1			
1,4-Dichlorobenzene	26.57	R	18.70	µg/L	1			
2,2´-Oxybis(1-chloropropane)	ND		18.70	µg/L	1			
2,4,5-Trichlorophenol	ND		46.70	µg/L	1			
2,4,6-Trichlorophenol	ND		18.70	µg/L	1			
2,4-Dichlorophenol	ND		18.70	µg/L	1			
2,4-Dimethylphenol	11.64	J	18.70	µg/L	1			
2,4-Dinitrophenol	ND		46.70	µg/L	1			
2,4-Dinitrotoluene	39.10	R	18.70	µg/L	1			
2,6-Dinitrotoluene	ND		18.70	µg/L	1			
2-Chloronaphthalene	ND		18.70	µg/L	1			
2-Chlorophenol	29.79	R	18.70	µg/L	1			
2-Methylnaphthalene	193.6	E	18.70	µg/L	1			
2-Methylphenol	12.92	J	18.70	µg/L	1			
2-Nitroaniline	ND		46.70	µg/L	1			
2-Nitrophenol	ND		18.70	µg/L	1			
3,3´-Dichlorobenzidine	ND		37.40	µg/L	1			
3-Nitroaniline	ND		46.70	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		46.70	µg/L	1			
4-Bromophenyl phenyl ether	ND		18.70	µg/L	1			
4-Chloro-3-methylphenol	35.96	R	18.70	µg/L	1			
4-Chloroaniline	ND		18.70	µg/L	1			
4-Chlorophenyl phenyl ether	ND		18.70	µg/L	1			
4-Methylphenol	9.914	J	18.70	µg/L	1			
4-Nitroaniline	ND		46.70	µg/L	1			
4-Nitrophenol	ND		46.70	µg/L	1			
Acenaphthene	37.12		18.70	µg/L	1			
Acenaphthylene	5.549	J	18.70	µg/L	1			
Acetophenone	32.59		18.70	µg/L	1			
Anthracene	ND		18.70	µg/L	1			
Atrazine	ND		18.70	µg/L	1			
Benz(a)anthracene	21.30		18.70	µg/L	1			
Benzaldehyde	ND		18.70	µg/L	1			
Benzo(a)pyrene	8.963	J	18.70	µg/L	1			

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM
% Moist:
Lab ID: 0307090-03CMSD **Sample Type:** MSD **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	18.14	J	18.70	µg/L	1			
Benzo(g,h,i)perylene	ND		18.70	µg/L	1			
Benzo(k)fluoranthene	ND		18.70	µg/L	1			
Benzoic acid	ND		46.70	µg/L	1			
Benzyl alcohol	ND		18.70	µg/L	1			
Bis(2-chloroethoxy)methane	ND		18.70	µg/L	1			
Bis(2-chloroethyl)ether	ND		18.70	µg/L	1			
Bis(2-ethylhexyl)phthalate	78.11	B	18.70	µg/L	1			
Butyl benzyl phthalate	ND		18.70	µg/L	1			
Caprolactam	ND		18.70	µg/L	1			
Carbazole	ND		18.70	µg/L	1			
Chrysene	18.53	J	18.70	µg/L	1			
Di-n-butyl phthalate	ND		18.70	µg/L	1			
Di-n-octyl phthalate	ND		18.70	µg/L	1			
Dibenz(a,h)anthracene	ND		18.70	µg/L	1			
Dibenzofuran	2.914	J	18.70	µg/L	1			
Diethyl phthalate	ND		18.70	µg/L	1			
Dimethyl phthalate	ND		18.70	µg/L	1			
Fluoranthene	22.57		18.70	µg/L	1			
Fluorene	12.94	J	18.70	µg/L	1			
Hexachlorobenzene	ND		18.70	µg/L	1			
Hexachlorobutadiene	ND		18.70	µg/L	1			
Hexachlorocyclopentadiene	ND		46.70	µg/L	1			
Hexachloroethane	ND		18.70	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		18.70	µg/L	1			
Isophorone	ND		18.70	µg/L	1			
N-Nitrosodi-n-propylamine	37.48		18.70	µg/L	1			
N-Nitrosodimethylamine	ND		18.70	µg/L	1			
N-Nitrosodiphenylamine	ND		18.70	µg/L	1			
Naphthalene	118.8		18.70	µg/L	1			
Nitrobenzene	ND		18.70	µg/L	1			
Pentachlorophenol	53.65		46.70	µg/L	1			
Phenanthrene	38.88		18.70	µg/L	1			
Phenol	33.47		18.70	µg/L	1			
Pyrene	50.98	R	18.70	µg/L	1			
Surr:2,4,6-Tribromophenol	147		32 - 162	%REC	1	7/18/2003 6:26:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	83		38 - 129	%REC	1			

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-W-01
Alt. Client ID:
Collection Date: 7/9/2003 9:30:00 AM
% Moist:
Lab ID: 0307090-03CMSD **Sample Type:** MSD **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	57		15 - 142	%REC	1			
Surr:Nitrobenzene-d5	110		45 - 118	%REC	1			
Surr:Phenol-d5	108		18 - 136	%REC	1			
Surr:Terphenyl-d14	107		10 - 154	%REC	1			

Data File: /var/chem/molly.i/0307184m1r.b/m8368.d

Date : 18-JUL-2003 18:26

Client ID:

Instrument: molly.i

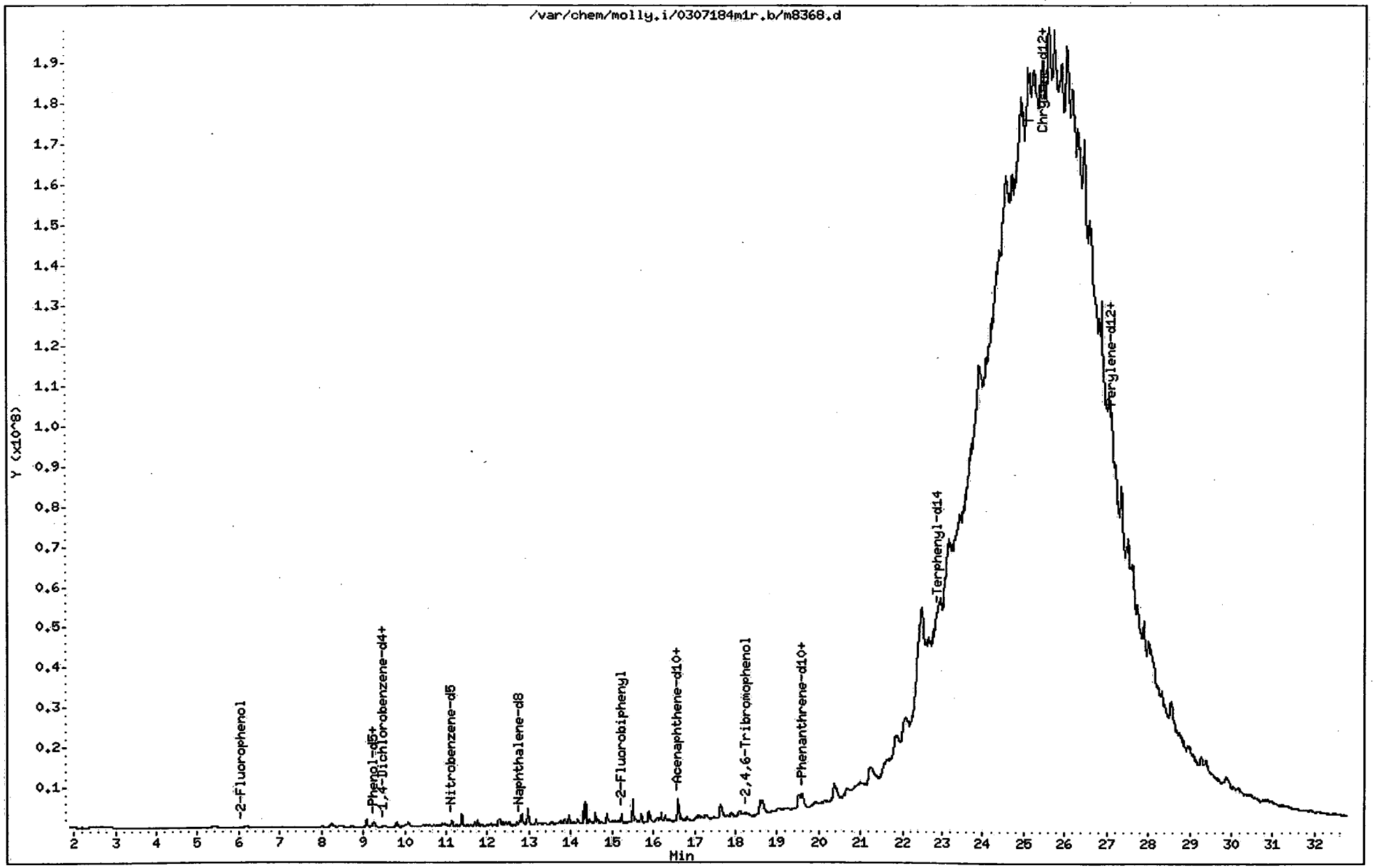
Sample Info: 0307090-03CMSD

Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8368.d
Lab Smp Id: 0307090-03CMSD
Inj Date : 18-JUL-2003 18:26
Operator : dce Inst ID: molly.i
Smp Info : 0307090-03CMSD
Misc Info : 0307184m1r;comx40;{},1_8270C_3520C_TCL_W,MSD
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2000.00000	Volume of final extract (uL)
Vo	1070.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	6.067	5.995	(0.639)	150542	34.4339	32.2
$ 6 Phenol-d5	99	9.255	9.121	(0.975)	406225	64.5867	60.4
7 Phenol	94	9.286	9.162	(0.978)	253960	35.8088	33.5
9 2-Chlorophenol	128	9.193	9.111	(0.968)	156025	31.8714	29.8
* 11 1,4-Dichlorobenzene-d4	152	9.493	9.494	(1.000)	138820	40.0000	
12 1,4-Dichlorobenzene	146	9.545	9.545	(1.005)	159074	28.4317	26.6
14 1,2-Dichlorobenzene	146	10.073	10.073	(1.061)	26857	4.98601	4.66(aQ)
15 2-Methylphenol	108	10.818	10.736	(1.140)	68961	13.8205	12.9
17 Acetophenone	105	10.777	10.767	(1.135)	293182	34.8763	32.6
18 4-Methylphenol	108	11.253	11.129	(1.185)	57742	10.6076	9.91(a)
19 N-Nitrosodi-n-propylamine	70	10.901	10.891	(1.148)	203456	40.1024	37.5
$ 21 Nitrobenzene-d5	82	11.128	11.129	(0.871)	385411	55.2149	51.6
25 2,4-Dimethylphenol	107	12.370	12.319	(0.968)	79991	12.4519	11.6(aQ)

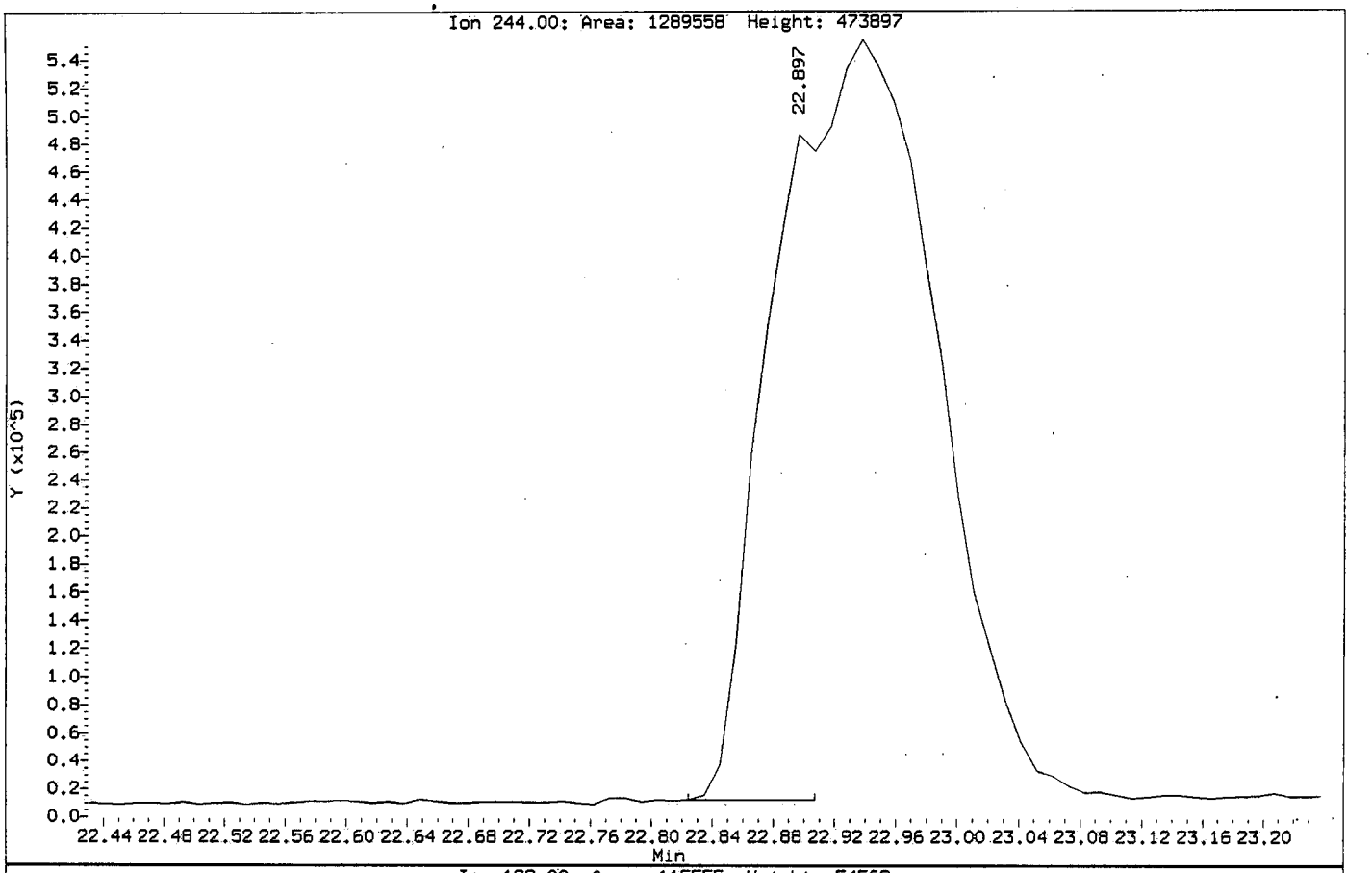
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	29 1,2,4-Trichlorobenzene	180	12.712	12.713	(0.995)	168700	33.6809	31.5
*	30 Naphthalene-d8	136	12.774	12.775	(1.000)	513306	40.0000	
	31 Naphthalene	128	12.826	12.816	(1.004)	1896978	127.117	119
	35 4-chloro-3-methylphenol	107	14.440	14.389	(1.130)	222409	38.4814	36.0(H)
	36 2-Methylnaphthalene	141	14.368	14.369	(1.125)	1835260	207.133	194(A)
$	40 2-Fluorobiphenyl	172	15.227	15.228	(0.919)	534415	41.4677	38.8
	42 Biphenyl	154	15.393	15.393	(0.929)	151711	9.84368	9.20(a)
	45 Acenaphthylene	152	16.252	16.242	(0.981)	115475	5.93687	5.55(a)
*	47 Acenaphthene-d10	164	16.573	16.563	(1.000)	380569	40.0000	
	49 Acenaphthene	153	16.635	16.635	(1.004)	485349	39.7187	37.1
	52 Dibenzofuran	168	16.966	16.966	(1.024)	54994	3.11766	2.91(a)
	53 2,4-Dinitrotoluene	165	17.132	17.122	(1.034)	203509	41.8416	39.1
	55 Fluorene	166	17.670	17.670	(1.066)	198107	13.8486	12.9
$	60 2,4,6-Tribromophenol	330	18.249	18.219	(1.101)	153551	88.2390	82.5
	64 Pentachlorophenol	266	19.429	19.368	(0.993)	168539	57.4042	53.6
*	65 Phenanthrene-d10	188	19.574	19.544	(1.000)	1217667	40.0000	
	66 Phenanthrene	178	19.616	19.585	(1.002)	1486519	41.6000	38.9
	70 Fluoranthene	202	22.037	21.997	(1.126)	1053818	24.1481	22.6
	72 Pyrene	202	22.524	22.431	(0.902)	6454167	54.5436	51.0(Q)
$	73 Terphenyl-d14	244	22.938	22.835	(0.918)	3989375	53.5784	50.1(M) DLE 7/21/03
	75 Benzo(a)anthracene	228	24.967	24.791	(1.000)	2861179	22.7962	21.3(Q)
*	77 Chrysene-d12	240	24.977	24.812	(1.000)	4291462	40.0000	
	78 Chrysene	228	24.967	24.853	(1.000)	2386950	19.8277	18.5(QM) DLE 7/21/03
	79 Bis(2-ethylhexyl)phthalate	149	25.184	25.040	(1.008)	7498381	83.5789	78.1
	81 Benzo(b)fluoranthene	252	26.592	26.406	(0.981)	1446422	19.4110	18.1
	83 Benzo(a)pyrene	252	27.047	26.861	(0.997)	629594	9.59047	8.96(aH)
*	84 Perylene-d12	264	27.119	26.944	(1.000)	1548090	40.0000	
	87 Benzo(g,h,i)perylene	276	29.541	29.356	(1.089)	159375	2.58404	2.41(aQ)

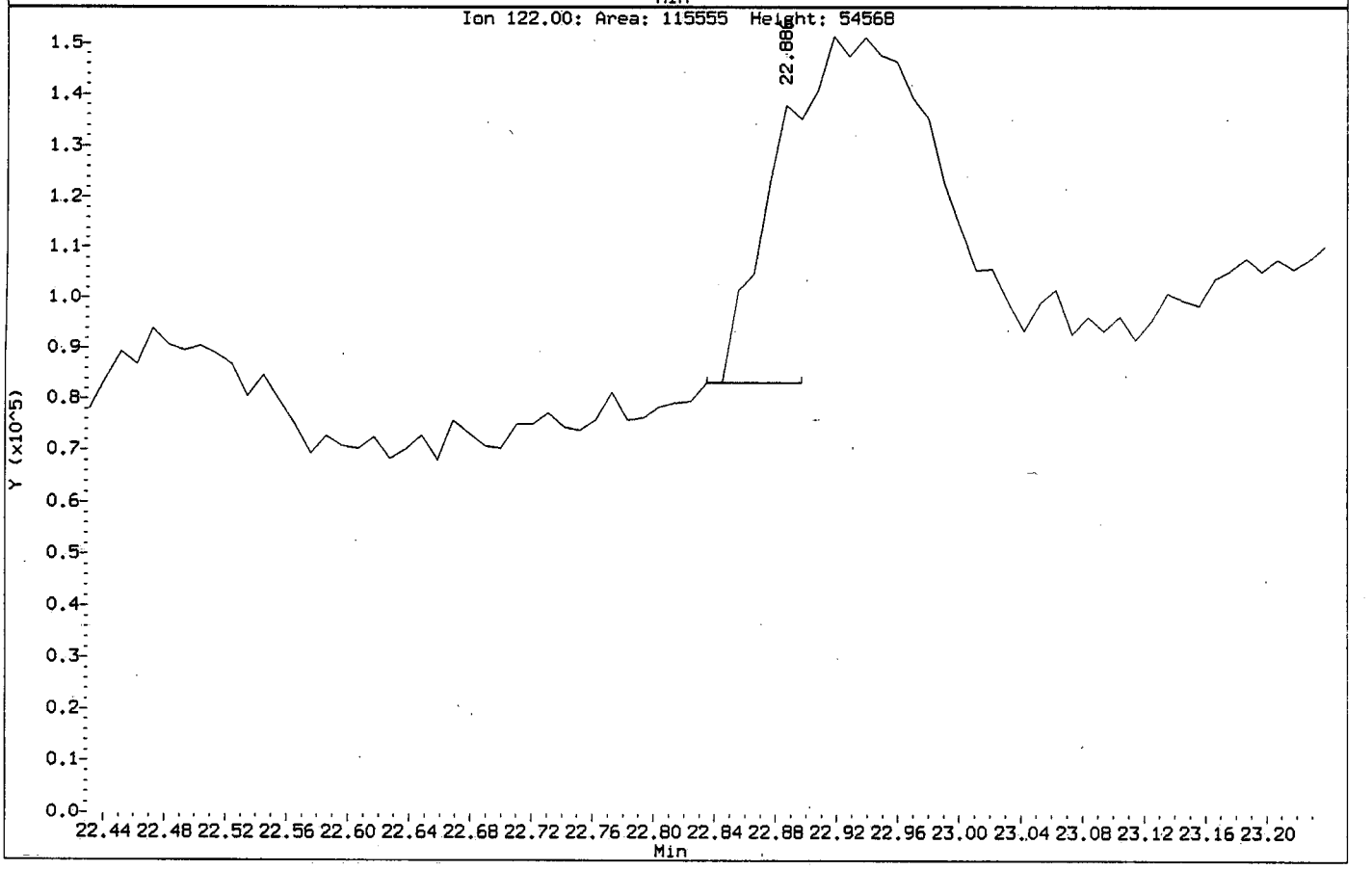
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8368.d
Injection Date: 18-JUL-2003 18:26
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

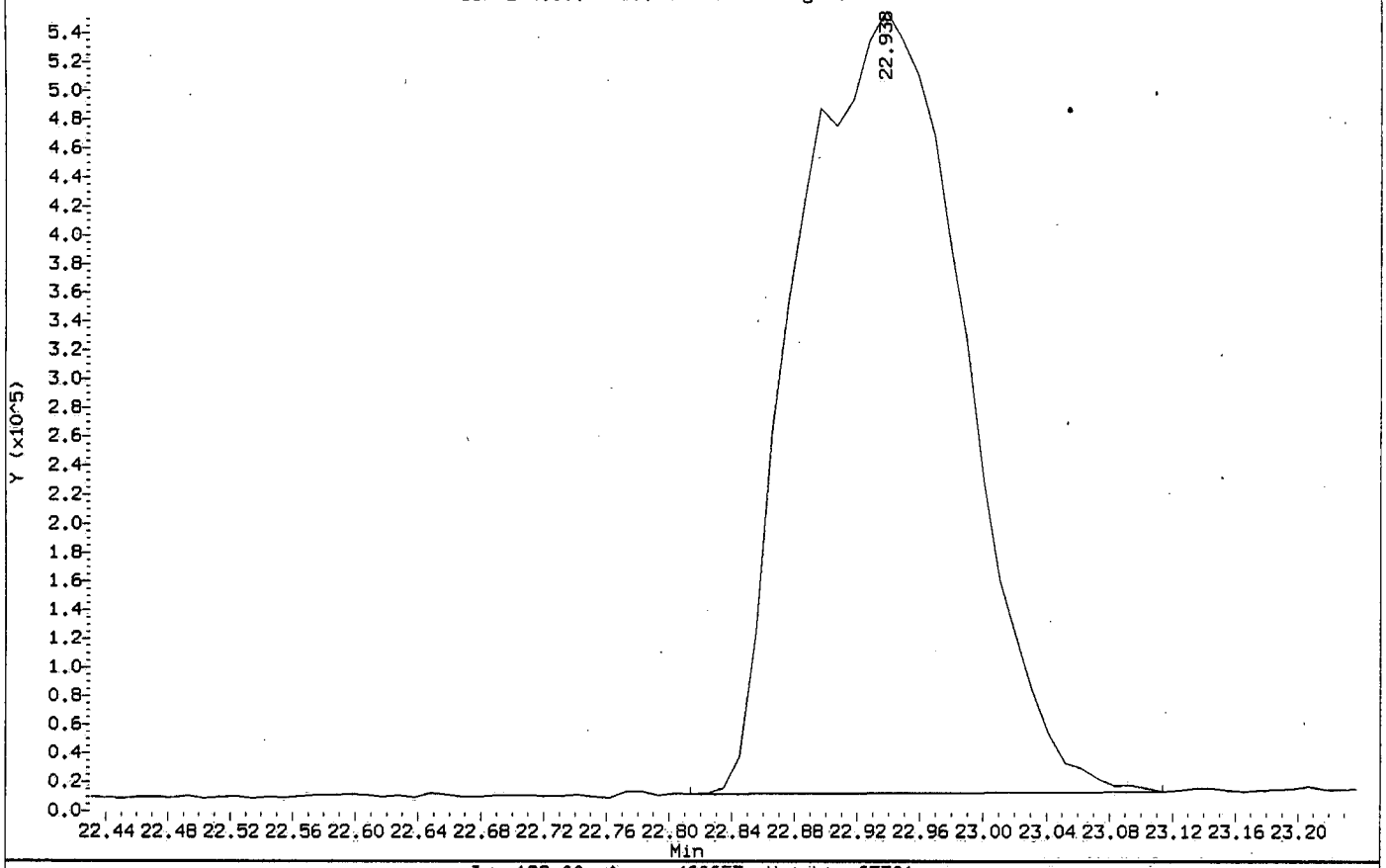


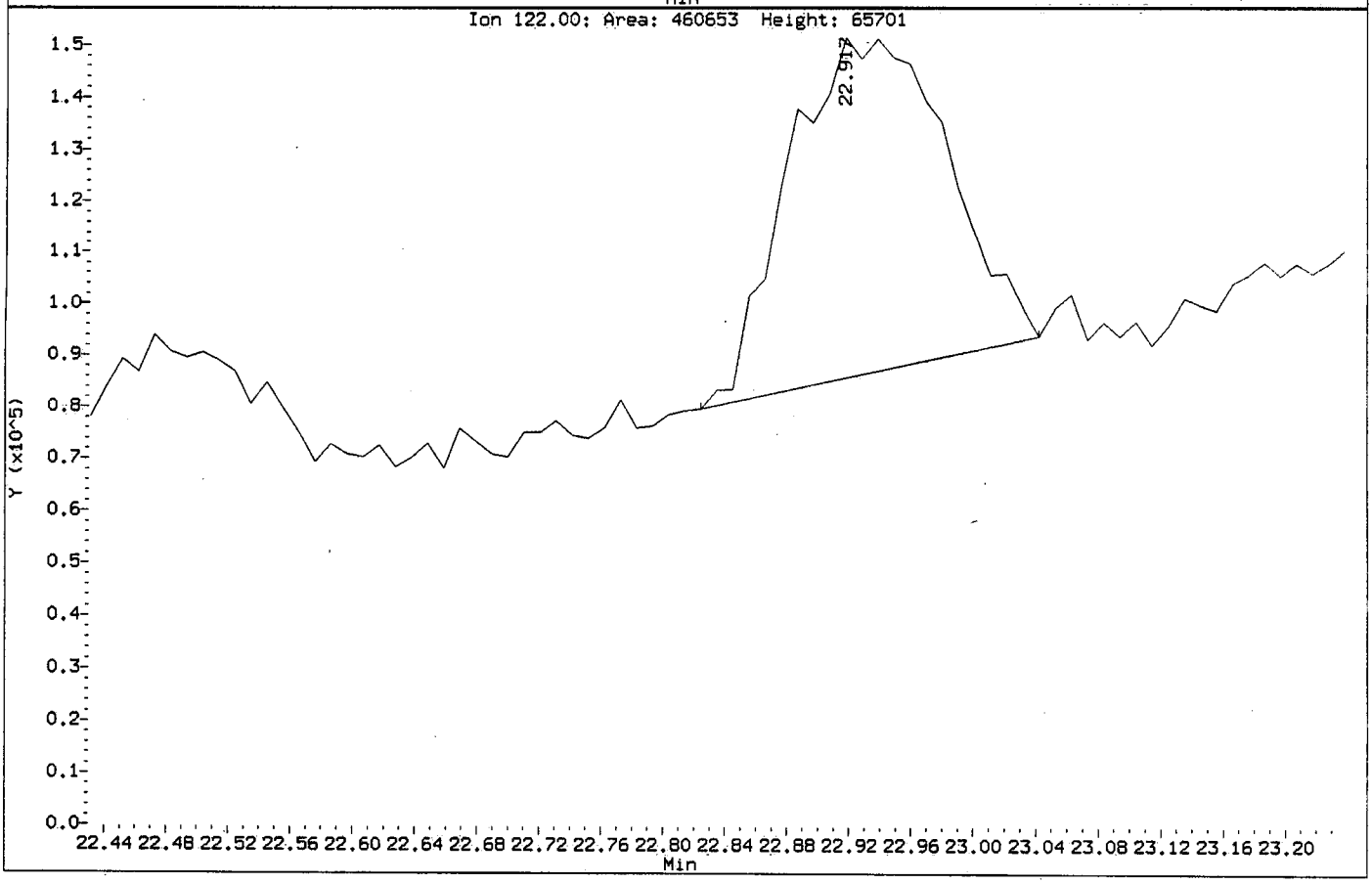


Data File: /var/chem/molly.i/0307184m1r.b/m8368.d
Injection Date: 18-JUL-2003 18:26
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

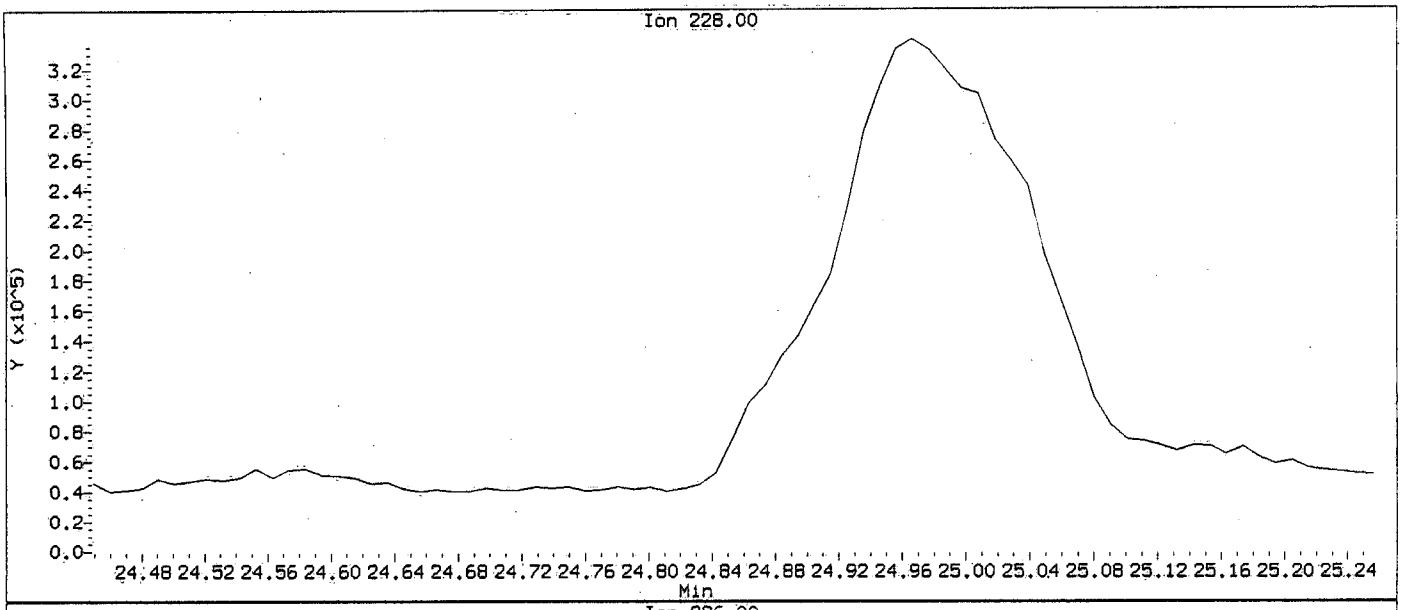
Paul E 7/21/03
integrate entire area
Kathy Kubit 7/21/03

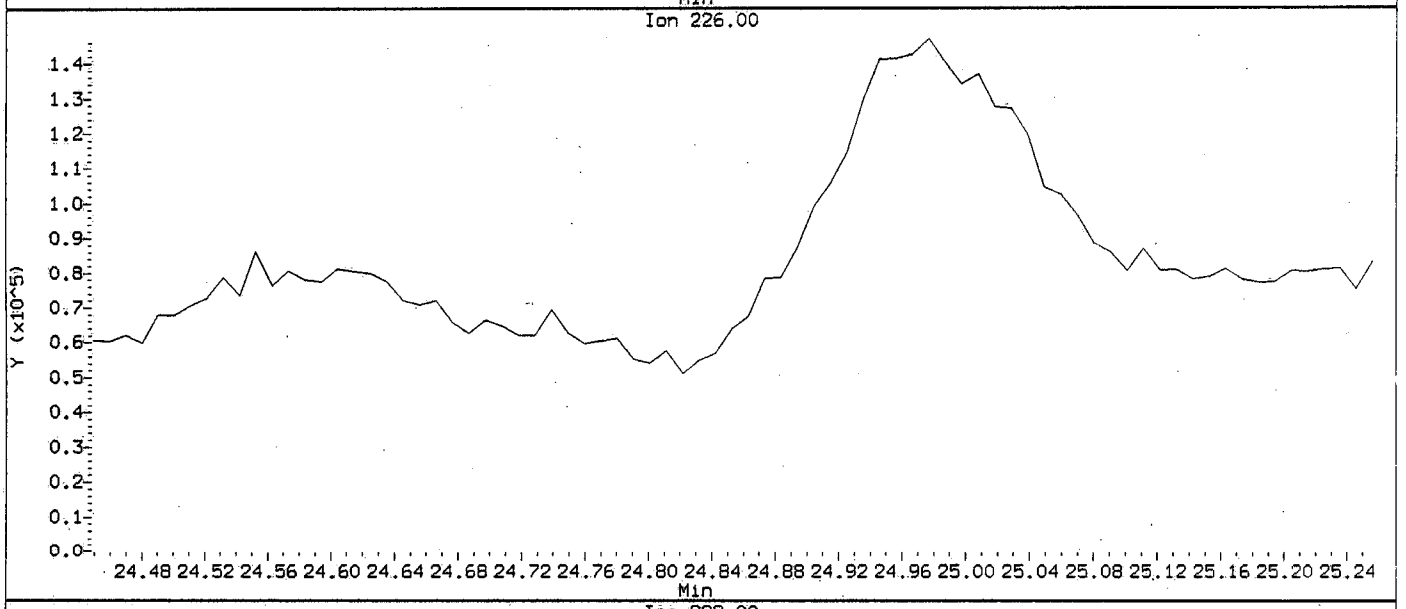


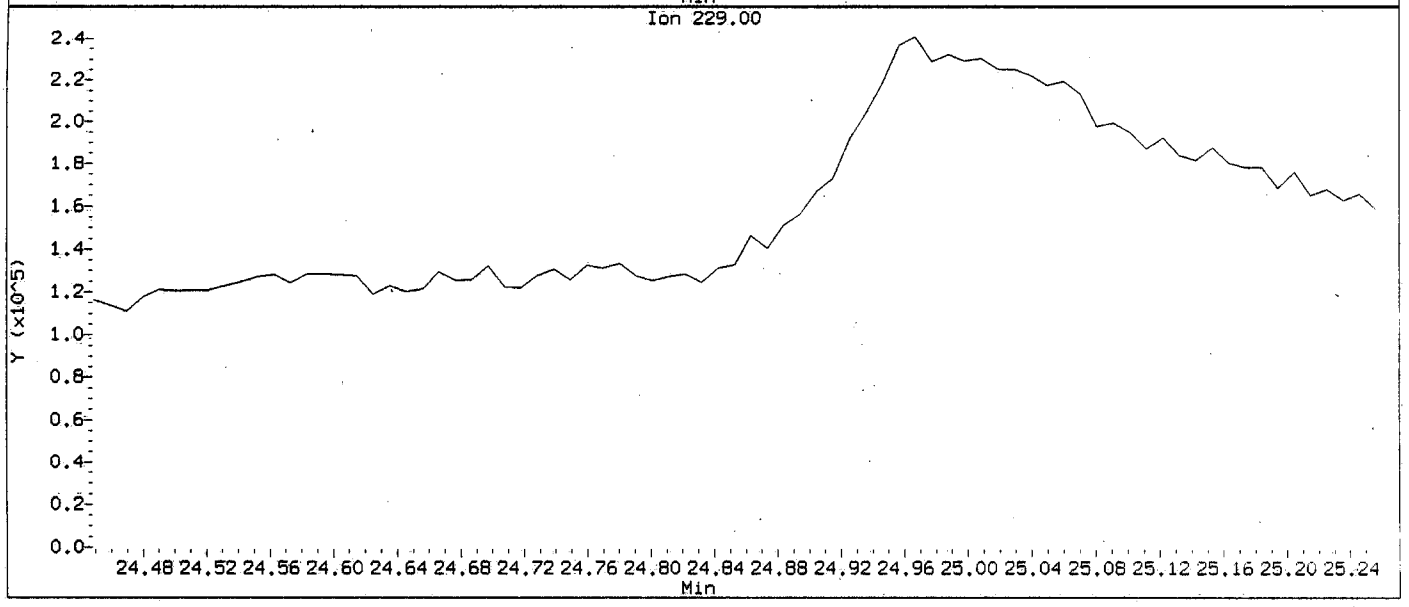


Data File: /var/chem/molly.i/0307184m1r.b/m8368.d
Injection Date: 18-JUL-2003 18:26
Instrument: molly.i
Client Sample ID:

Compound: Chrysene
CAS Number: 218-01-9



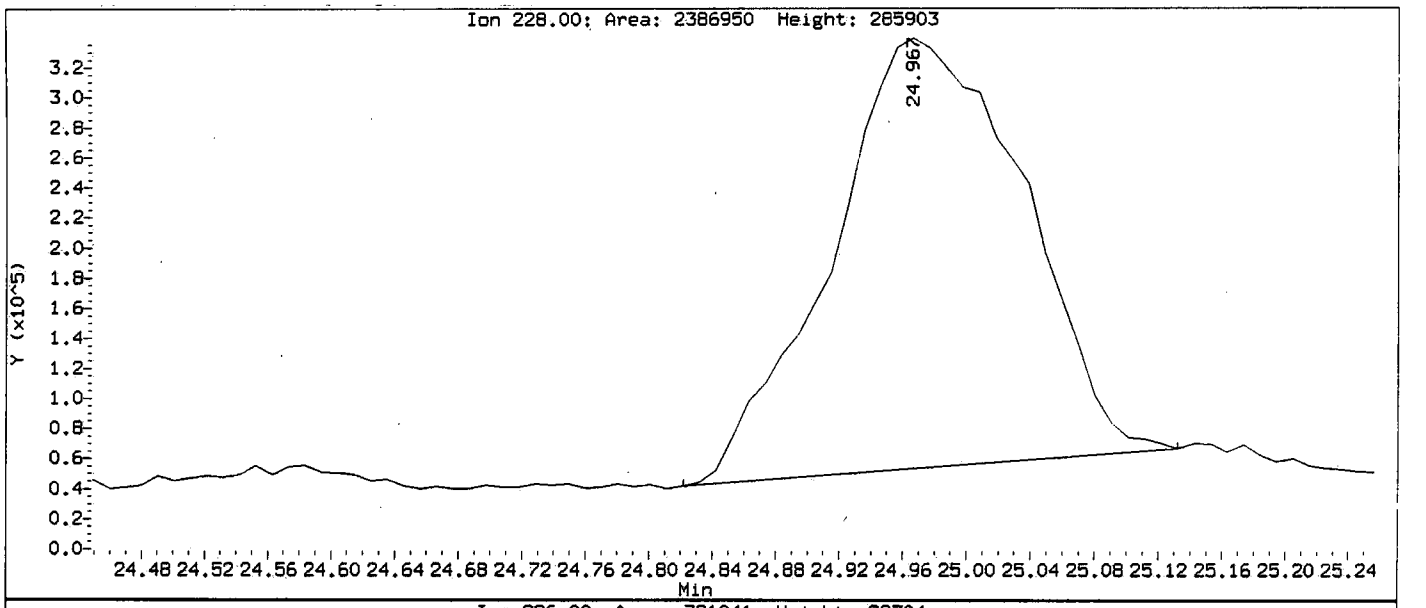


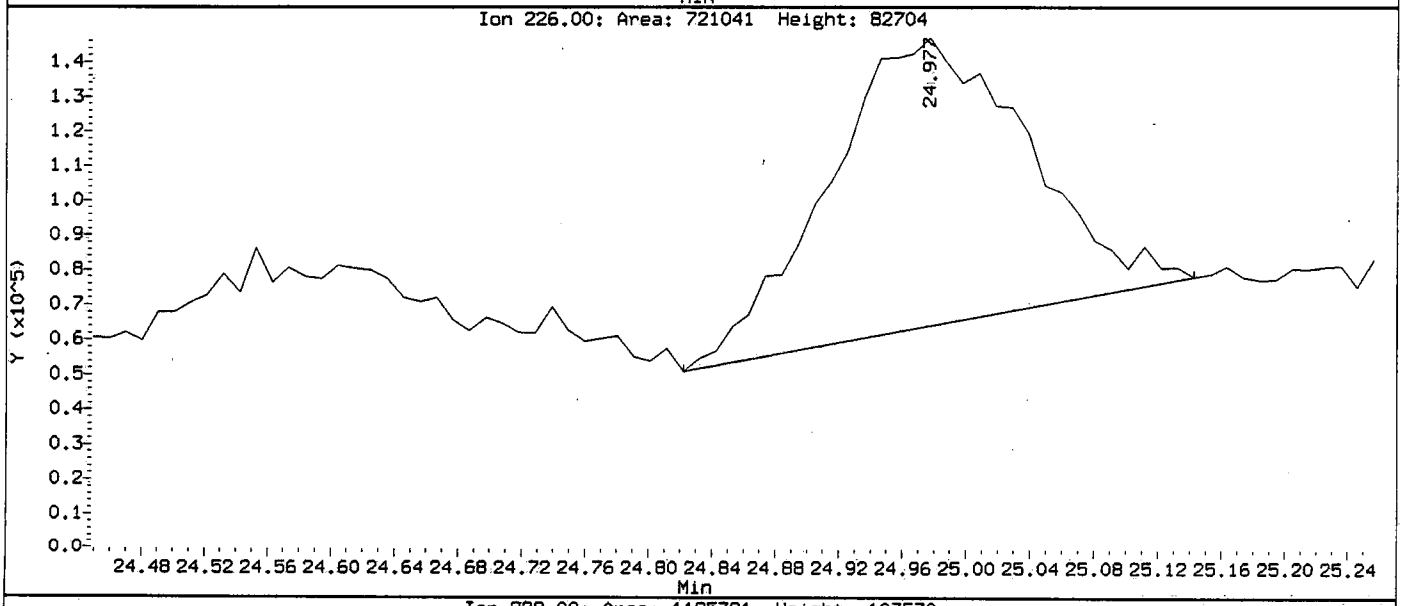


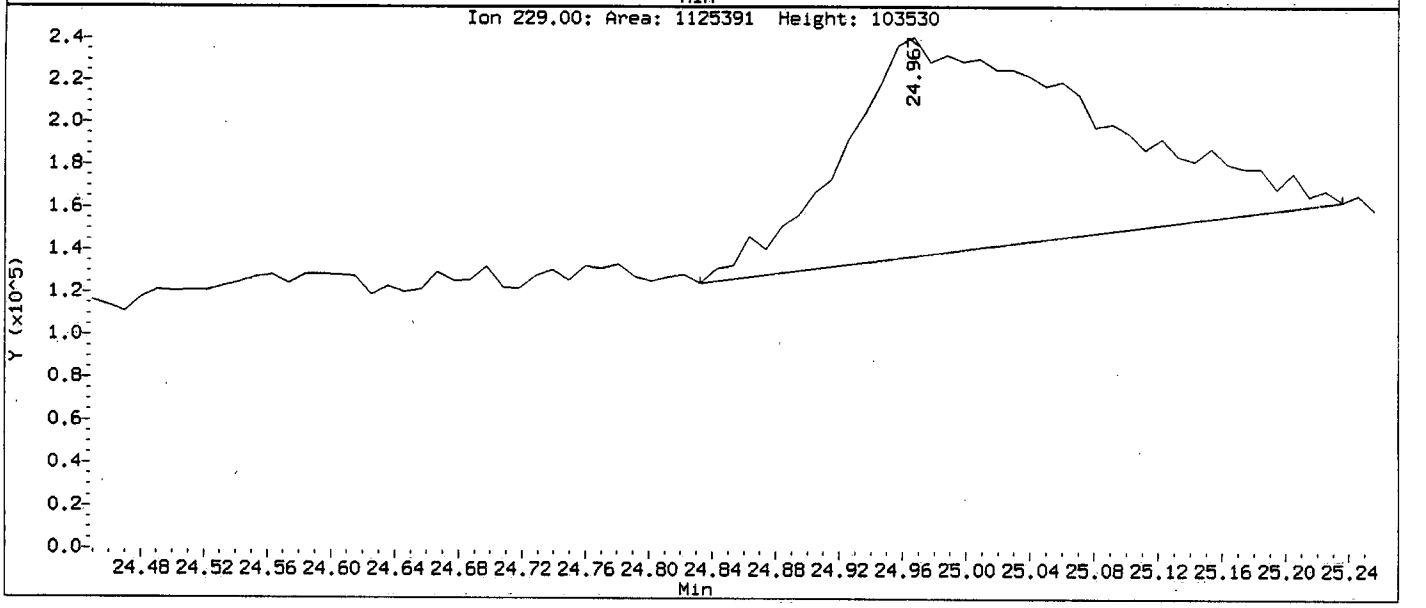
Data File: /var/chem/molly.i/0307184m1r.b/m8368.d
Injection Date: 18-JUL-2003 18:26
Instrument: molly.i
Client Sample ID:

Compound: Chrysene
CAS Number: 218-01-9

Rell E 7/21/03
not originally integrated
Kathy Kubat 7/21/03







Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID:
Alt. Client ID:
Collection Date:
% Moist:
Lab ID: LCS-200302830 **Sample Type:** LCS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	ND		10.00	µg/L	1	7/17/2003 2:43:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	32.60		10.00	µg/L	1			
1,2-Dichlorobenzene	ND		10.00	µg/L	1			
1,3-Dichlorobenzene	ND		10.00	µg/L	1			
1,4-Dichlorobenzene	31.70		10.00	µg/L	1			
2,2´-Oxybis(1-chloropropane)	ND		10.00	µg/L	1			
2,4,5-Trichlorophenol	ND		25.00	µg/L	1			
2,4,6-Trichlorophenol	ND		10.00	µg/L	1			
2,4-Dichlorophenol	ND		10.00	µg/L	1			
2,4-Dimethylphenol	ND		10.00	µg/L	1			
2,4-Dinitrophenol	ND		25.00	µg/L	1			
2,4-Dinitrotoluene	35.76		10.00	µg/L	1			
2,6-Dinitrotoluene	ND		10.00	µg/L	1			
2-Chloronaphthalene	ND		10.00	µg/L	1			
2-Chlorophenol	37.17		10.00	µg/L	1			
2-Methylnaphthalene	ND		10.00	µg/L	1			
2-Methylphenol	ND		10.00	µg/L	1			
2-Nitroaniline	ND		25.00	µg/L	1			
2-Nitrophenol	ND		10.00	µg/L	1			
3,3´-Dichlorobenzidine	ND		20.00	µg/L	1			
3-Nitroaniline	ND		25.00	µg/L	1			
4,6-Dinitro-2-methylphenol	ND		25.00	µg/L	1			
4-Bromophenyl phenyl ether	ND		10.00	µg/L	1			
4-Chloro-3-methylphenol	36.16		10.00	µg/L	1			
4-Chloroaniline	ND		10.00	µg/L	1			
4-Chlorophenyl phenyl ether	ND		10.00	µg/L	1			
4-Methylphenol	ND		10.00	µg/L	1			
4-Nitroaniline	ND		25.00	µg/L	1			
4-Nitrophenol	41.56		25.00	µg/L	1			
Acenaphthene	37.29		10.00	µg/L	1			
Acenaphthylene	ND		10.00	µg/L	1			
Acetophenone	ND		10.00	µg/L	1			
Anthracene	ND		10.00	µg/L	1			
Atrazine	ND		10.00	µg/L	1			
Benz(a)anthracene	ND		10.00	µg/L	1			
Benzaldehyde	ND		10.00	µg/L	1			
Benzo(a)pyrene	ND		10.00	µg/L	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: LCS-200302830 **Sample Type:** LCS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		10.00	µg/L	1			
Benzo(g,h,i)perylene	ND		10.00	µg/L	1			
Benzo(k)fluoranthene	ND		10.00	µg/L	1			
Benzoic acid	ND		25.00	µg/L	1			
Benzyl alcohol	ND		10.00	µg/L	1			
Bis(2-chloroethoxy)methane	ND		10.00	µg/L	1			
Bis(2-chloroethyl)ether	ND		10.00	µg/L	1			
Bis(2-ethylhexyl)phthalate	15.88	B	10.00	µg/L	1			
Butyl benzyl phthalate	ND		10.00	µg/L	1			
Caprolactam	ND		10.00	µg/L	1			
Carbazole	ND		10.00	µg/L	1			
Chrysene	ND		10.00	µg/L	1			
Di-n-butyl phthalate	ND		10.00	µg/L	1			
Di-n-octyl phthalate	ND		10.00	µg/L	1			
Dibenz(a,h)anthracene	ND		10.00	µg/L	1			
Dibenzofuran	ND		10.00	µg/L	1			
Diethyl phthalate	ND		10.00	µg/L	1			
Dimethyl phthalate	ND		10.00	µg/L	1			
Fluoranthene	ND		10.00	µg/L	1			
Fluorene	ND		10.00	µg/L	1			
Hexachlorobenzene	ND		10.00	µg/L	1			
Hexachlorobutadiene	ND		10.00	µg/L	1			
Hexachlorocyclopentadiene	ND		25.00	µg/L	1			
Hexachloroethane	ND		10.00	µg/L	1			
Indeno(1,2,3-cd)pyrene	ND		10.00	µg/L	1			
Isophorone	ND		10.00	µg/L	1			
N-Nitrosodi-n-propylamine	30.13		10.00	µg/L	1			
N-Nitrosodimethylamine	ND		10.00	µg/L	1			
N-Nitrosodiphenylamine	ND		10.00	µg/L	1			
Naphthalene	ND		10.00	µg/L	1			
Nitrobenzene	ND		10.00	µg/L	1			
Pentachlorophenol	51.18		25.00	µg/L	1			
Phenanthrene	ND		10.00	µg/L	1			
Phenol	36.81		10.00	µg/L	1			
Pyrene	40.88		10.00	µg/L	1			
Surr:2,4,6-Tribromophenol	105		32 - 162	%REC	1	7/17/2003 2:43:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	98		38 - 129	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID:
Alt. Client ID:
Collection Date:
% Moist:

Lab ID: LCS-200302830 **Sample Type:** LCS **Matrix:** Water **Test Code:** 1_8270C_3520C_TCL_W

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3520C

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	83		15 - 142	%REC	1			
Surr:Nitrobenzene-d5	108		45 - 118	%REC	1			
Surr:Phenol-d5	106		18 - 136	%REC	1			
Surr:Terphenyl-d14	138		10 - 154	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Data File: /var/chem/molly.i/0307174m1r.b/m8346.d

Date : 17-JUL-2003 14:43

Client ID:

Instrument: molly.i

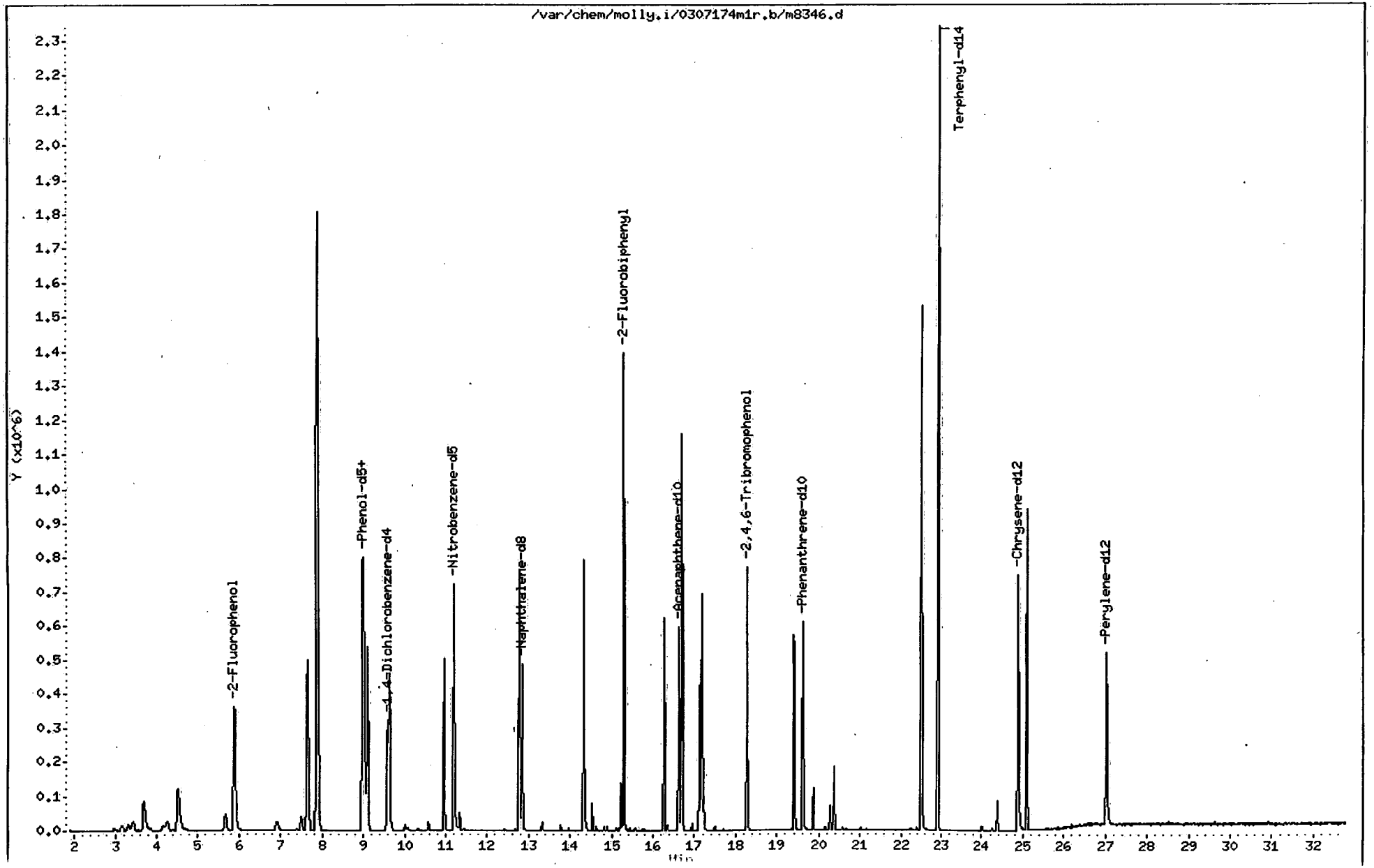
Sample Info: LCS-200302830

Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25



Ecology & Environment, Inc.

ata file : /var/chem/molly.i/0307174m1r.b/m8346.d
ab Smp Id: LCS-200302830
nj Date : 17-JUL-2003 14:43
perator : dce Inst ID: molly.i
mp Info : LCS-200302830
isc Info : 0307174m1r;comx40;,1_8270C_3520C_TCL_W,LCS
omment :
ethod : /var/chem/molly.i/0307174m1r.b/comx40.m
eth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
al Date : 30-JUN-2003 11:56 Cal File: m8116.d
ls bottle: 1 QC Sample: LCS
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.50
rocessing Host: chemsrv2

oncentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
3 2-Fluorophenol	112	5.881	5.879	(0.614)	318509	99.8127	49.9
6 Phenol-d5	99	8.976	8.964	(0.937)	585529	127.544	63.8
7 Phenol	94	9.007	8.995	(0.941)	381145	73.6291	36.8
9 2-Chlorophenol	128	9.100	9.077	(0.950)	265602	74.3315	37.2
11 1,4-Dichlorobenzene-d4	152	9.576	9.564	(1.000)	101325	40.0000	
12 1,4-Dichlorobenzene	146	9.628	9.616	(1.005)	258906	63.3988	31.7
19 N-Nitrosodi-n-propylamine	70	10.953	10.951	(1.144)	223140	60.2577	30.1
21 Nitrobenzene-d5	82	11.201	11.189	(0.873)	523329	108.292	54.1
29 1,2,4-Trichlorobenzene	180	12.775	12.762	(0.995)	226128	65.2095	32.6
30 Naphthalene-d8	136	12.837	12.824	(1.000)	355376	40.0000	
35 4-chloro-3-methylphenol	107	14.317	14.315	(1.115)	289362	72.3150	36.2
40 2-Fluorobiphenyl	172	15.290	15.277	(0.919)	711356	97.5972	48.8
47 Acenaphthene-d10	164	16.635	16.623	(1.000)	215236	40.0000	

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
49 Acenaphthene	153	16.697	16.685	(1.004)	515395	74.5761	37.3
51 4-Nitrophenol	109	17.122	17.119	(1.029)	138115	83.1240	41.6
53 2,4-Dinitrotoluene	165	17.173	17.171	(1.032)	196752	71.5257	35.8
60 2,4,6-Tribromophenol	330	18.271	18.258	(1.098)	123619	125.606	62.8
64 Pentachlorophenol	266	19.409	19.396	(0.989)	109284	102.363	51.2
65 Phenanthrene-d10	188	19.616	19.593	(1.000)	442776	40.0000	
72 Pyrene	202	22.504	22.491	(0.905)	1237034	81.7681	40.9
73 Terphenyl-d14	244	22.907	22.895	(0.921)	1318363	138.490	69.2
77 Chrysene-d12	240	24.874	24.861	(1.000)	548665	40.0000	
79 Bis(2-ethylhexyl)phthalate	149	25.091	25.089	(1.009)	364226	31.7540	15.9(a)
84 Perylene-d12	264	27.016	27.004	(1.000)	348156	40.0000	

)C Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Ecology and Environment, Inc. WATER EXTRACTION LOGBOOK FORM

Batch No.: 200302830

Log Book#: 1724

TestCode 1P_3520C_8270C

Extracted by: Jeremy Gilmore **Signature:**

Extraction Date 7/14/2003 9:01:00 AM

Prep End Date: 7-16-03 8:50AM

Florisil Cart. Lot #: NA **Copper Lot #:** NA **GPC/ CalID#:** ☐ NA

Materials Used:			Book-Page #	Expiration Date
1.0	mL	8270 Surrogate	1653-4-5	8/2/03
	mL	_____ Surrogate		
	mL	_____ Surrogate		
1.0	mL	8270 Spike	1653-3-13	7/26/03
	mL	_____ Spike		
	mL	_____ Spike		

Solvent Traceability	Lot No.:
Methylene Chloride	Y18E53
Acetone	Y10E46
Hexane	X46E25
Acetonitrile	NA
Pentane	NA
Sodium Sulfate	V47616

Sample ID	Cont#	Sample Amt. (mL)	FinVol. (mL)	Concentrated by/Date	Init.pH	Comments:	IntCOC
0307090-03C	4	1000	1.0	MD 7-16-03 4:27pm	7		☐
0307090-03CMS	6	980	2.0				☐
0307090-03CMSD	5	1070					☐
0307090-04C	2	1020					☐
0307106-01B	2	810	1.0				☐
LCS-200302830		1000	1.0				☐
MB-200302830		1000	1.0				☐

Last entry

M Davis 7/16/03

Extraction pH Adjustments (YES) NO (Circling YES requires completion of information below)

pH adjusted to 2 with 1:1 H2SO4 (Book-Page # 320-136-1) Expiration Date: 4/22/04

AP Time ON: 15:00 7/14/03 AP Time OFF: 09:15 9/15/03

pH adjusted to >= 11 with 10 N NaOH (Book-Page # 320-136-3) Expiration Date: 11/1/03

BN Time ON: 14:29 7/15/03 BN Time OFF: 8:50AM 7/16/03

The following clean-up proceedures have been performed on this batch of samples: Circle All that apply

(NONE) FLORISIL COPPER GPC OTHER_____

I have witnessed the addition of surrogate and spiking solutions. The correct type and amount has been added as indicated in the SOP.

(Signed)

738

Generated: Monday, July 14, 2003 9:38 AM **Ecology and Environment, Inc.** **Batch#:** 200302830

BOOK Number	1480
PAGE Number	198

Ecology & Environment, Inc. MSSEMI v1.0

Batch Number	0306304MIR
Method Performed	8270C GCMS19
Date Analyzed	6 30 '03
Analyst Signature	[signature]

Traceability	
Internal Standard Reference (IS)	1663 - 10 - 8
Tune Reference (DFTPP)	1663 - 9 - 13
CCV Reference (SSTD050)	1653 - 2 - 4 1653 3 6
Maintenance	none

Lab Sample ID	Analyst's Initials	Data Filename	Sequence	Method	Injection Vol. (uL)	Comments & QC Action
DFTPP50ngr	DLE	M8110	MOLLY	DFMASP	1 µl	
SSTD050		M8111		COMX40	2 µl	1653-2-4
SSTD160		M8112		COMX40		-8
SSTD020		M8113				-3
SSTD120		M8114				-7
SSTD060		M8115				-5
SSTD080		M8116				-6
SSTD010		M8117				-2
ICV060		M8118				1653-2-9
CRA+18 050		M8119		COMGS13		1653-3-6
MB-200302471		M8120		COMX40		300µl+3µl IS
LCS-		M8121				
LCSD-		M8122				
MB-200302547		M8123				
LCS-		M8124				
LCSD-		M8125				
0306136-01B		M8126				

[signature] 6/7/03

Witnessed & Understood my me,	Date
Kathy Kubit	7/8/03

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BOOK Number	[illegible]
PAGE Number	212

Ecology & Environment, Inc. MSSEMI v1.0

Batch Number	0307174MIC
Method Performed	8270C GCMS-19
Date Analyzed	7/17/03
Analyst Signature	[illegible]

Traceability

Internal Standard Reference (IS)	1663 - 10 - 10
Tune Reference (DFTPP)	1663 - 9 - 14
CCV Reference (SSTD050)	1653 - 5 - 18
Maintenance	daily maint

Lab Sample ID	Analyst's Initials	Data Filename	Sequence	Method	Injection Vol. (uL)	Comments & QC Action
DFTPP 50ng	MCE	M8339	MOLLY	DFMSP	1µl	
SSTD50		M8340		8mx40	2µl	
MB-200302870		M8341				300µl + 3µl IS
LCS-200302870		M8342				
MB-200302842		M8343				
LCS-200302842		M8344				
MB-200302830		M8345				
LCS-200302830		M8346				
0307106-01B		M8347				
0307090-06A		M8348				
05A		M8349				
03C		M8350				
04C		M8351				
0307093-04B 5X		M8352				100µl + 400µl MeCl2 + 5µl IS
03B 5X		M8353				
01B 5X		M8354				
02B 5X		M8355				

[illegible] 7/18/03

Witnessed & Understood my me,	Date
Kathy Kuhot	7/22/03

740

BOOK Number	1480
PAGE Number	213

Ecology & Environment, Inc. MSSEMI v1.0

Batch Number	0307184MIR
Method Performed	8270C GCMS-19
Date Analyzed	7/18/03
Analyst Signature	[signature]

Traceability	
Internal Standard Reference (IS)	1663-10-10
Tune Reference (DFTPP)	1663-9-14
CCV Reference (SSTD050)	1653-5-18
Maintenance	Daily maint

Lab Sample ID	Analyst's Initials	Data Filename	Sequence	Method	Injection Vol. (uL)	Comments & QC Action
DFTPP 50ngr	DE	M8356	MOLLY ~~Kim~~ DE 7/18/03	DFMASP	1µl	
SSTD050	↓	M8357	↓	COMX40	2µl	PCP 20.12 (in control, not used)
DFTPP 50ngr	↓	M8358	↓	DFMASP	1µl	
SSTD050	↓	M8359	↓	COMX40	2µl	PCP 21.4 (out of control, not used)
Cut Column, Bake			DE 7/18/03			
DFTPP 50ngr	DE	M8360	MOLLY ~~Kim~~	DFMASP	1µl	
SSTD050	↓	M8361	MOLLY	COMX40	2µl	
0307093-01B40X	↓	M8362	↓	↓	↓	25µl + 975µl $MeCl_2$ + 10µl IS
04B30X	↓	M8363	↓	↓	↓	100µl (100µl + 200) + 900µl $MeCl_2$ + 10µl IS
02B30X	↓	M8364	↓	↓	↓	↓
03BMS 5X	↓	M8365	↓	↓	↓	100µl + 400µl $MeCl_2$ + 5µl IS
03BMSD 5X	↓	M8366	↓	↓	↓	↓
0307090-03CMS	↓	M8367	↓	↓	↓	300µl + 3µl IS
03CMSD	↓	M8368	↓	↓	↓	300µl + 3µl IS
05A10X	↓	M8369	↓	↓	↓	100µl + 900µl $MeCl_2$ + 10µl IS
06A	↓	M8370	↓	↓	↓	300µl + 3µl IS
04C 3X	↓	M8371	↓	↓	↓	100µl + 200µl $MeCl_2$ + 3µl IS
05AMS	↓	M8372	↓	↓	↓	300µl + 3µl IS
05AMSD	↓	M8373	↓	↓	↓	300µl + 3µl IS.

[signature] 7/21/03

Witnessed & Understood my me.	Date
Kathy Kuhnt	7/22/03

741

CALCULATION EXAMPLES (For Semivolatile Samples by 8270C or 625 Analysis)	
Water	$\mu g/L = \frac{(Ax(Is)(Vt)(DF)}{(Ais)(\overline{RRF})(Vo)(Vi)}$ $\overline{RRF} = \frac{(Ax)(Cis)}{(Ais)(Cx)}$ where: Ais = Area of characteristic ion for specific internal standard. Ax = Area of characteristic ion for compound to be measured. Cis = Concentration of the internal standard. Cx = Concentration of the compound to be measured. DF = Dilution factor. Is = Amount of internal standard added in nanograms. $\overline{RRF}$ = Average relative response factor from the initial calibration. Vi = Volume of extract injected in microliters (2 µL). Vo = Volume of water extracted in milliliters (generally 1000 mL). Vt = Volume of the concentrated extract in microliters (1000 µL).
Soil	$\mu g/kg = \frac{(Ax(Is)(Vt)(DF)}{(Ais)(\overline{RRF})(Vi)(Ws)(D)}$ $\overline{RRF} = \frac{(Ax)(Cis)}{(Ais)(Cx)}$ where: Ais = Area of characteristic ion for specific internal standard. Ax = Area of characteristic ion for compound to be measured. Cis = Concentration of the internal standard. Cx = Concentration of the compound to be measured. D = (100 - % moisture)/100. DF = Dilution factor. Is = Amount of internal standard added in nanograms. $\overline{RRF}$ = Average relative response factor from the initial calibration Vi = Average volume of extract injected in microliters (2 µL). Vt = Volume of the concentrated extract in microliters (generally 1000 µL). Ws = Weight of sample extracted in grams (generally 30 g).
Surrogate Concentrations	Base neutral compounds = 100 ng on column. Acid phenol compounds = 120 ng on column.
Spike Concentrations	All spike compounds = 80 ng on column.

SCIL

Ecology and Environment, Inc.
Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481
Test Code: 1_8270C_3550B_TCL_S
Batch ID: MOLLY_030717A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Semivolatile Organics by Method 8270C

Sample ID	Type	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14		
0307090-05A	SAMP	73	81	62	84	59	138*		
0307090-06A	SAMP	96	91	81	100	82	61		
LCS-200302842	LCS	89	95	79	97	83	124*		
MB-200302842	MBLK	94	87	80	98	84	125*		

Acronym		Surrogate	QC Limits
NO2BZD5	=	Nitrobenzene-d5	25-122
PH246BR	=	2,4,6-Tribromophenol	32-130
PH2F	=	2-Fluorophenol	36-135
PHD5	=	Phenol-d5	36-128
PHEN2F	=	2-Fluorobiphenyl	27-123
PHEND14	=	Terphenyl-d14	51-116

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481
Test Code: 1_8270C_3550B_TCL_S
Batch ID: MOLLY_030718A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Semivolatile Organics by Method 8270C

Sample ID	Type	NO2BZD5	PH246BR	PH2F	PHD5	PHEN2F	PHEND14		
0307090-05A	DL	75	71	60	75	67	45*D		
0307090-05AMS	MS	80	81	73	94	67	152*		
0307090-05AMSD	MSD	76	66	63	89	58	158*		
0307090-06A	RA	95	95	78	94	78	104		

Acronym		Surrogate	QC Limits
NO2BZD5	=	Nitrobenzene-d5	25-122
PH246BR	=	2,4,6-Tribromophenol	32-130
PH2F	=	2-Fluorophenol	36-135
PHD5	=	Phenol-d5	36-128
PHEN2F	=	2-Fluorobiphenyl	27-123
PHEND14	=	Terphenyl-d14	51-116

*** Surrogate recovery outside acceptance limits**

D - Diluted due to matrix or extended target compounds

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Sample Matrix Spike

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **0307090-05AMS** Client Sample ID: **BBW-ML-01** DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030718A** SeqNo: **796433** Analysis Date: **7/18/2003 9:05:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	1721	45.50	633.0	2551	0	67	50	110			
A 1,4-Dichlorobenzene	1608	71.20	633.0	2551	0	63	44	110			
A 2,4-Dinitrotoluene	1939	79.40	633.0	2551	0	76	37	110			
A 2-Chlorophenol	1957	51.40	633.0	2551	0	77	25	127			
A 4-Chloro-3-methylphenol	2454	70.60	633.0	2551	0	96	28	131			
A 4-Nitrophenol	3393	87.70	1590	2551	0	133	31	124			M
A Acenaphthene	2035	49.10	633.0	2551	163.8	73	41	110			
A N-Nitrosodi-n-propylamine	1870	57.90	633.0	2551	0	73	30	110			
A Pentachlorophenol	834.9	171.0	1590	2551	448.4	15	40	129			JM
A Phenol	7864	44.90	633.0	2551	5402	96	45	110			E
A Pyrene	5115	116.0	633.0	2551	2349	108	23	135			E
S 2,4,6-Tribromophenol	3110	0	0	3836	0	81	32	130			
S 2-Fluorobiphenyl	2145	0	0	3198	0	67	27	123			
S 2-Fluorophenol	2787	0	0	3836	0	73	36	135			
S Nitrobenzene-d5	2571	0	0	3198	0	80	25	122			
S Phenol-d5	3622	0	0	3836	0	94	36	128			
S Terphenyl-d14	4865	0	0	3198	0	152	51	116			*

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **0307090-05AMSD** Client Sample ID: **BBW-ML-01** DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030718A** SeqNo: **796442** Analysis Date: **7/18/2003 9:45:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	1560	45.30	631.0	2541	0	61	50	110	9.4	35	
A 1,4-Dichlorobenzene	1521	70.90	631.0	2541	0	60	44	110	5.2	35	
A 2,4-Dinitrotoluene	1749	79.10	631.0	2541	0	69	37	110	9.9	35	
A 2-Chlorophenol	1828	51.20	631.0	2541	0	72	25	127	6.4	35	
A 4-Chloro-3-methylphenol	2573	70.30	631.0	2541	0	101	28	131	5.1	35	
A 4-Nitrophenol	2813	87.30	1590	2541	0	111	31	124	18.3	35	
A Acenaphthene	1870	48.90	631.0	2541	163.8	67	41	110	8.8	35	
A N-Nitrosodi-n-propylamine	1748	57.70	631.0	2541	0	69	30	110	6.4	35	
A Pentachlorophenol	711.3	171.0	1590	2541	448.4	10	40	129	~~NC~~	35	JM
A Phenol	8015	44.70	631.0	2541	5402	103	45	110	6.3	35	E
A Pyrene	5684	115.0	631.0	2541	2349	131	23	135	19.0	35	E
S 2,4,6-Tribromophenol	2535	0	0	3822	0	66	32	130	0.0	0	
S 2-Fluorobiphenyl	1836	0	0	3185	0	58	27	123	0.0	0	
S 2-Fluorophenol	2395	0	0	3822	0	63	36	135	0.0	0	
S Nitrobenzene-d5	2412	0	0	3185	0	76	25	122	0.0	0	
S Phenol-d5	3399	0	0	3822	0	89	36	128	0.0	0	
S Terphenyl-d14	5035	0	0	3185	0	158	51	116	0.0	0	*

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Laboratory Control Spike

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **LCS-200302842** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795991** Analysis Date: **7/17/2003 1:24:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,2,4-Trichlorobenzene	947.5	23.00	320.0	1290	0	73	50	110			
A 1,4-Dichlorobenzene	962.5	36.00	320.0	1290	0	75	44	110			
A 2,4-Dinitrotoluene	1091	40.20	320.0	1290	0	85	37	110			
A 2-Chlorophenol	1035	26.00	320.0	1290	0	80	25	127			
A 4-Chloro-3-methylphenol	1074	35.70	320.0	1290	0	83	28	131			
A 4-Nitrophenol	1179	44.30	805.0	1290	0	91	31	124			
A Acenaphthene	1026	24.80	320.0	1290	0	79	41	110			
A N-Nitrosodi-n-propylamine	878.6	29.30	320.0	1290	0	68	30	110			
A Pentachlorophenol	1473	86.70	805.0	1290	0	114	40	129			
A Phenol	1064	22.70	320.0	1290	0	82	45	110			
A Pyrene	1160	58.60	320.0	1290	0	90	23	135			
S 2,4,6-Tribromophenol	1846	0	0	1940	0	95	32	130			
S 2-Fluorobiphenyl	1344	0	0	1617	0	83	27	123			
S 2-Fluorophenol	1538	0	0	1940	0	79	36	135			
S Nitrobenzene-d5	1436	0	0	1617	0	89	25	122			
S Phenol-d5	1877	0	0	1940	0	97	36	128			
S Terphenyl-d14	2000	0	0	1617	0	124	51	116			*

Definitions:

- * - Recovery outside QC limits
- DNI - Did not Ignite
- Limit - Reporting Limit
- ND - Not Detected at the Reporting Limit
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- M - Matrix Spike Recovery outside limits
- P - Post Spike Recovery outside limits
- D - Diluted due to maxtrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- N - Single Column Analysis
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value, value may not be accurate
- NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

METHOD BLANK SUMMARY

Work Order: 0307090 **SDG No.:** **Project:** START RFP 3481

Lab File ID: m8343.d **Matrix:(soil/water)** SOIL **Lab Sample ID:** MB-200302842

Date Analyzed: 7/17/2003 **Time Analyzed:** 12:44 **Date Extracted:** 7/14/2003

Instrument ID: MOLLY **Test Method:** SW8270C **Prep Method:** SW3550B

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LCS-200302842	LCS-200302842	m8344.d	7/17/2003
02	BBW-ML-02	0307090-06A	m8348.d	7/17/2003
03	BBW-ML-01	0307090-05A	m8349.d	7/17/2003
04	BBW-ML-01	0307090-05A DL	m8369.d	7/18/2003
05	BBW-ML-02	0307090-06A RA	m8370.d	7/18/2003
06	BBW-ML-01	0307090-05AMS	m8372.d	7/18/2003
07	BBW-ML-01	0307090-05AMSD	m8373.d	7/18/2003

7/30/03

COMMENTS: _____

FORM IV
SW8270C
page 1 of 1

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **MB-200302842** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795983** Analysis Date: **7/17/2003 12:44:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 1,1´-Biphenyl	ND	16.90	329.0								
A 1,2,4-Trichlorobenzene	ND	23.60	329.0								
A 1,2-Dichlorobenzene	ND	27.70	329.0								
A 1,3-Dichlorobenzene	ND	40.10	329.0								
A 1,4-Dichlorobenzene	ND	37.00	329.0								
A 2,2´-Oxybis(1-chloropropane)	ND	24.80	329.0								
A 2,4,5-Trichlorophenol	ND	22.20	828.0								
A 2,4,6-Trichlorophenol	ND	28.60	329.0								
A 2,4-Dichlorophenol	ND	22.90	329.0								
A 2,4-Dimethylphenol	ND	63.30	329.0								
A 2,4-Dinitrophenol	ND	74.30	329.0								
A 2,4-Dinitrotoluene	ND	41.30	329.0								
A 2,6-Dinitrotoluene	ND	25.70	329.0								
A 2-Chloronaphthalene	ND	21.30	329.0								
A 2-Chlorophenol	ND	26.70	329.0								
A 2-Methylnaphthalene	ND	32.30	329.0								
A 2-Methylphenol	ND	34.90	329.0								
A 2-Nitroaniline	ND	34.50	828.0								
A 2-Nitrophenol	ND	32.60	329.0								
A 3,3´-Dichlorobenzidine	ND	299.0	828.0								
A 3-Nitroaniline	ND	121.0	828.0								
A 4,6-Dinitro-2-methylphenol	ND	38.20	828.0								
A 4-Bromophenyl phenyl ether	ND	26.90	329.0								

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **MB-200302842** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795983** Analysis Date: **7/17/2003 12:44:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A 4-Chloro-3-methylphenol	ND	36.70	329.0								
A 4-Chloroaniline	ND	115.0	329.0								
A 4-Chlorophenyl phenyl ether	ND	31.00	329.0								
A 4-Methylphenol	ND	30.90	329.0								
A 4-Nitroaniline	ND	90.00	828.0								
A 4-Nitrophenol	ND	45.60	828.0								
A Acenaphthene	ND	25.50	329.0								
A Acenaphthylene	ND	22.60	329.0								
A Acetophenone	ND	23.50	329.0								
A Anthracene	ND	19.50	329.0								
A Atrazine	ND	41.30	329.0								
A Benz(a)anthracene	ND	31.10	329.0								
A Benzaldehyde	ND	165.0	299.0								
A Benzo(a)pyrene	ND	23.70	329.0								
A Benzo(b)fluoranthene	ND	43.50	329.0								
A Benzo(g,h,i)perylene	ND	77.50	329.0								
A Benzo(k)fluoranthene	ND	55.90	329.0								
A Benzoic acid	ND	77.00	828.0								
A Benzyl alcohol	ND	37.50	329.0								
A Bis(2-chloroethoxy)methane	ND	24.40	329.0								
A Bis(2-chloroethyl)ether	ND	25.40	329.0								
A Bis(2-ethylhexyl)phthalate	ND	38.50	329.0								
A Butyl benzyl phthalate	ND	43.40	329.0								

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **MB-200302842** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795983** Analysis Date: **7/17/2003 12:44:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A Caprolactam	ND	68.00	329.0								
A Carbazole	ND	34.00	329.0								
A Chrysene	ND	27.10	329.0								
A Di-n-butyl phthalate	ND	40.10	329.0								
A Di-n-octyl phthalate	ND	40.80	329.0								
A Dibenz(a,h)anthracene	ND	91.80	329.0								
A Dibenzofuran	ND	17.80	329.0								
A Diethyl phthalate	ND	40.80	329.0								
A Dimethyl phthalate	ND	19.80	329.0								
A Fluoranthene	ND	62.80	329.0								
A Fluorene	ND	32.30	329.0								
A Hexachlorobenzene	ND	20.20	329.0								
A Hexachlorobutadiene	ND	29.70	329.0								
A Hexachlorocyclopentadiene	ND	47.80	828.0								
A Hexachloroethane	ND	25.10	329.0								
A Indeno(1,2,3-cd)pyrene	ND	93.80	329.0								
A Isophorone	ND	20.20	329.0								
A N-Nitrosodi-n-propylamine	ND	30.10	329.0								
A N-Nitrosodimethylamine	ND	24.00	329.0								
A N-Nitrosodiphenylamine	ND	16.10	329.0								
A Naphthalene	ND	30.70	329.0								
A Nitrobenzene	ND	25.70	329.0								
A Pentachlorophenol	ND	89.20	828.0								

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Work Order: 0307090
Project: START RFP 3481

QC SUMMARY REPORT
Method Blank

Semivolatile Organics by Method 8270C Test Code: *1_8270C_3550B_TCL_S* Units: *µg/Kg*

Sample ID: **MB-200302842** Client Sample ID: DF: 1 DL_No: 1

Run Batch ID: **MOLLY_030717A** SeqNo: **795983** Analysis Date: **7/17/2003 12:44:00 PM** Prep Batch ID: **200302842** Prep Date: **7/14/2003**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit [1]	Qual
A Phenanthrene	ND	27.90	329.0								
A Phenol	ND	23.30	329.0								
A Pyrene	ND	60.20	329.0								
S 2,4,6-Tribromophenol	1742	0	0			87	32	130			
S 2-Fluorobiphenyl	1400	0	0			84	27	123			
S 2-Fluorophenol	1603	0	0			80	36	135			
S Nitrobenzene-d5	1563	0	0			94	25	122			
S Phenol-d5	1954	0	0			98	36	128			
S Terphenyl-d14	2080	0	0			125	51	116			*

Definitions:

* - Recovery outside QC limits
DNI - Did not Ignite
Limit - Reporting Limit
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
E - Result exceeds Highest Calibration Standard
M - Matrix Spike Recovery outside limits
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
H - Value Exceeds Maximum Contaminant Level
N - Single Column Analysis
R - RPD outside recovery limits
DF - Dilution Factor
J - Estimated value, value may not be accurate
NC - Not Calculated for values < RL

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	200306304m1
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8110	Date Analyzed:	30-JUN-2003
Fraction:	Semi-VOA	Time Analyzed:	08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.15
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	50.74
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	47.16
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.96
275	10.00 - 30.00% of mass 198	28.26
365	Greater than 1.00% of mass 198	1.73
441	Present, but less than mass 443	7.95
442	Greater than 40.00% of mass 198	56.97
443	17.00 - 23.00% of mass 442	10.40 (18.25) b

a = Value is relative to mass 69
b = Value is relative to mass 442

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8111	30-JUN-2003	08:39
2	SSTD160	m8112	30-JUN-2003	09:17
3	SSTD020	m8113	30-JUN-2003	09:57
4	SSTD120	m8114	30-JUN-2003	10:36
5	SSTD060	m8115	30-JUN-2003	11:16
6	SSTD080	m8116	30-JUN-2003	11:56
7	ICV060	m8118	30-JUN-2003	13:15

INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	20
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8339	Date Analyzed:	17-JUL-2003
Fraction:	Semi-VOA	Time Analyzed:	10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.12
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	53.52
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	50.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.45
275	10.00 - 30.00% of mass 198	25.00
365	Greater than 1.00% of mass 198	3.63
441	Present, but less than mass 443	5.95
442	Greater than 40.00% of mass 198	48.88
443	17.00 - 23.00% of mass 442	9.88 (20.21) b

a = Value is relative to mass 69
b = Value is relative to mass 442

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8340	17-JUL-2003	10:37
2	MB-200302842	m8343	17-JUL-2003	12:44
3	LCS-200302842	m8344	17-JUL-2003	13:24
4	0307090-06A	m8348	17-JUL-2003	16:02
5	0307090-05A	m8349	17-JUL-2003	16:42

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INSTRUMENT TUNE PERFORMANCE SUMMARY REPORT
Decafluorotriphenylphosphine

Lab Name:	Ecology & Environment, Inc.	Project:	Weston
Job Number:	0307090	Batch Number:	200307184m1
Instrument:	molly	Column ID:	ZB-5
Tune File ID:	m8360	Date Analyzed:	18-JUL-2003
Fraction:	Semi-VOA	Time Analyzed:	13:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.73
68	Less than 2.00% of mass 69	0.00 (0.00) a
69	Less than 100.00% of mass 198	50.38
70	Less than 2.00% of mass 69	0.00 (0.00) a
127	40.00 - 60.00% of mass 198	49.94
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.40
275	10.00 - 30.00% of mass 198	27.19
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	8.07
442	Greater than 40.00% of mass 198	56.42
443	17.00 - 23.00% of mass 442	12.07 (21.38) b

a = Value is relative to mass 69
b = Value is relative to mass 442

This tune check applies to the following Standards, Blanks, Samples and QC

	Sample ID	File ID	Date Analyzed	Time Analyzed
1	SSTD050	m8361	18-JUL-2003	13:37
2	0307090-05A OL	m8369	18-JUL-2003	19:06
3	0307090-06A RA	m8370	18-JUL-2003	19:46
4	0307090-05AMS	m8372	18-JUL-2003	21:05
5	0307090-05AMSD	m8373	18-JUL-2003	21:45

KK 7/22/03

755
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INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc. Initial Cal ID: COMX40

Job Number: 0307090 Batch Number: 200307174m1

Instrument: molly Column ID: ZB-5

Cal File ID: m8340 Date Analyzed: 17-JUL-2003

Fraction: Semi-VOA Time Analyzed: 10:37

Spk Amt Units: ng

	IS #1 Area/Amt	RT	IS #2 Area/Amt	RT	IS #3 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	99444	9.56	366550	12.82	225973	16.62
Upper Limit	198888	10.06	733100	13.32	451946	17.12
Lower Limit	49722	9.06	183275	12.32	112986	16.12
Sample ID:						
MB-200302842	91521	9.56	330860	12.83	202693	16.62
LCS-200302842	92217	9.56	339923	12.82	203216	16.61
0307090-06A	99401	9.56	365462	12.83	232304	16.62
0307090-05A	120793	9.56	491795	12.82	410483	16.62

IS #1 = 1,4-Dichlorobenzene-d4
IS #2 = Naphthalene-d8
IS #3 = Acenaphthene-d10

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc. Initial Cal ID: COMX40

Job Number: 0307090 Batch Number: 200307174m1

Instrument: molly Column ID: ZB-5

Cal File ID: m8340 Date Analyzed: 17-JUL-2003

Fraction: Semi-VOA Time Analyzed: 10:37

Spk Amt Units: ng

	IS #4 Area/Amt	RT	IS #5 Area/Amt	RT	IS #6 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	455010	19.59	574814	24.86	356452	27.00
Upper Limit	910020	20.09	1149628	25.36	712904	27.50
Lower Limit	227505	19.09	287407	24.36	178226	26.50
Sample ID:						
MB-200302842	413627	19.60	532365	24.87	337653	27.00
LCS-200302842	414965	19.59	537514	24.87	341011	27.00
0307090-06A	521161	19.61	1902319 *	24.91	1077711 *	27.25
0307090-05A	1658831 *	19.61	1969163 *	24.89	711315	27.07

IS #4 = Phenanthrene-d10
IS #5 = Chrysene-d12
IS #6 = Perylene-d12

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc. Initial Cal ID: COMX40

Job Number: 0307090 Batch Number: 200307184m1

Instrument: molly Column ID: ZB-5

Cal File ID: m8361 Date Analyzed: 18-JUL-2003

Fraction: Semi-VOA Time Analyzed: 13:37

Spk Amt Units: NG

	IS #1 Area/Amt	RT	IS #2 Area/Amt	RT	IS #3 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	114648	9.49	414222	12.77	270824	16.56
Upper Limit	229296	9.99	828444	13.27	541648	17.06
Lower Limit	57324	8.99	207111	12.27	135412	16.06
Sample ID:						
0307090-05ADL	128798	9.50	459712	12.78	289700	16.57
0307090-06AKA	136356	9.48	481009	12.77	340964	16.57
0307090-05AMS	141134	9.50	559607	12.79	435654	16.58
0307090-05AMSD	145252	9.49	595458	12.77	526154	16.57

KK 7/22/03

IS #1 = 1,4-Dichlorobenzene-d4
IS #2 = Naphthalene-d8
IS #3 = Acenaphthene-d10

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Ecology & Environment, Inc. Initial Cal ID: COMX40

Job Number: 0307090 Batch Number: 200307184m1

Instrument: molly Column ID: ZB-5

Cal File ID: m8361 Date Analyzed: 18-JUL-2003

Fraction: Semi-VOA Time Analyzed: 13:37

Spk Amt Units: NG

	IS #4 Area/Amt	RT	IS #5 Area/Amt	RT	IS #6 Area/Amt	RT
Std Spk Amt	40.00		40.00		40.00	
Std Area/RT	542462	19.54	687325	24.81	422776	26.94
Upper Limit	1084924	20.04	1374650	25.31	845552	27.44
Lower Limit	271231	19.04	343662	24.31	211388	26.44
Sample ID:						
0307090-05A DL	588102	19.54	1925663 *	24.82	2032040 *	26.96
0307090-06A RA	983064	19.54	2292204 *	24.82	1103450 *	26.99
0307090-05AMS	1713529 *	19.57	2162528 *	24.85	739905	27.02
0307090-05AMSD	1981239 *	19.56	1954411 *	24.84	749981	27.00

7/22/03

IS #4 = Phenanthrene-d10
IS #5 = Chrysene-d12
IS #6 = Perylene-d12

Area Upper Limit = +100% of Ccal internal standard area
Area Lower Limit = -50% of Ccal internal standard area
RT Lower Limit = +0.50 minutes of Ccal internal standard RT
RT Lower Limit = -0.50 minutes of Ccal internal standard RT

* = value is outside of QC limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** SAMP **Matrix:** Solid

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM . **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	114	J	32.4	633	µg/Kg	1	7/17/2003 4:42:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		45.4	633	µg/Kg	1			
1,2-Dichlorobenzene	ND		53.3	633	µg/Kg	1			
1,3-Dichlorobenzene	ND		77.1	633	µg/Kg	1			
1,4-Dichlorobenzene	ND		71.1	633	µg/Kg	1			
2,2´-Oxybis(1-chloropropane)	ND		47.7	633	µg/Kg	1			
2,4,5-Trichlorophenol	ND		42.7	1590	µg/Kg	1			
2,4,6-Trichlorophenol	ND		55	633	µg/Kg	1			
2,4-Dichlorophenol	ND		44.1	633	µg/Kg	1			
2,4-Dimethylphenol	259	J	122	633	µg/Kg	1			
2,4-Dinitrophenol	ND		143	633	µg/Kg	1			
2,4-Dinitrotoluene	ND		79.4	633	µg/Kg	1			
2,6-Dinitrotoluene	ND		49.5	633	µg/Kg	1			
2-Chloronaphthalene	ND		41	633	µg/Kg	1			
2-Chlorophenol	ND		51.4	633	µg/Kg	1			
2-Methylnaphthalene	791		62.1	633	µg/Kg	1			
2-Methylphenol	299	J	67.1	633	µg/Kg	1			
2-Nitroaniline	ND		66.3	1590	µg/Kg	1			
2-Nitrophenol	ND		62.7	633	µg/Kg	1			
3,3´-Dichlorobenzidine	ND		575	1590	µg/Kg	1			
3-Nitroaniline	ND		232	1590	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		73.4	1590	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		51.8	633	µg/Kg	1			
4-Chloro-3-methylphenol	ND		70.5	633	µg/Kg	1			
4-Chloroaniline	ND		220	633	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		59.6	633	µg/Kg	1			
4-Methylphenol	704		59.4	633	µg/Kg	1			
4-Nitroaniline	ND		173	1590	µg/Kg	1			
4-Nitrophenol	ND		87.6	1590	µg/Kg	1			
Acenaphthene	164	J	49.1	633	µg/Kg	1			
Acenaphthylene	ND		43.5	633	µg/Kg	1			
Acetophenone	412	J	45.2	633	µg/Kg	1			
Anthracene	ND		37.6	633	µg/Kg	1			
Atrazine	ND		79.4	633	µg/Kg	1			
Benz(a)anthracene	ND		59.8	633	µg/Kg	1			
Benzaldehyde	1220	J	316	575	µg/Kg	1			
Benzo(a)pyrene	ND		45.6	633	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Lab ID: 0307090-05A **Sample Type:** SAMP **Matrix:** Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		83.6	633	µg/Kg	1			
Benzo(g,h,i)perylene	ND		149	633	µg/Kg	1			
Benzo(k)fluoranthene	ND		107	633	µg/Kg	1			
Benzoic acid	3250		148	1590	µg/Kg	1			
Benzyl alcohol	ND		72.1	633	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		47	633	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		48.9	633	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	2530	J	74	633	µg/Kg	1			
Butyl benzyl phthalate	719	J	83.4	633	µg/Kg	1			
Caprolactam	1560	J	131	633	µg/Kg	1			
Carbazole	ND		65.4	633	µg/Kg	1			
Chrysene	88.7	J	52.1	633	µg/Kg	1			
Di-n-butyl phthalate	14400 ~~16100~~	~~E~~ D	77.1	633	µg/Kg	1			
Di-n-octyl phthalate	ND		78.4	633	µg/Kg	1			
Dibenz(a,h)anthracene	ND		176	633	µg/Kg	1			
Dibenzofuran	556	J	34.1	633	µg/Kg	1			
Diethyl phthalate	916		78.4	633	µg/Kg	1			
Dimethyl phthalate	184	J	38.1	633	µg/Kg	1			
Fluoranthene	2760	J	121	633	µg/Kg	1			
Fluorene	391	J	62.1	633	µg/Kg	1			
Hexachlorobenzene	ND		38.9	633	µg/Kg	1			
Hexachlorobutadiene	ND		57.1	633	µg/Kg	1			
Hexachlorocyclopentadiene	ND		91.8	1590	µg/Kg	1			
Hexachloroethane	ND		48.3	633	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		180	633	µg/Kg	1			
Isophorone	ND		38.9	633	µg/Kg	1			
N-Nitrosodi-n-propylamine	ND		57.9	633	µg/Kg	1			
N-Nitrosodimethylamine	ND		46.2	633	µg/Kg	1			
N-Nitrosodiphenylamine	368	J	30.9	633	µg/Kg	1			
Naphthalene	425	J	59	633	µg/Kg	1			
Nitrobenzene	ND		49.5	633	µg/Kg	1			
Pentachlorophenol	448	J	171	1590	µg/Kg	1			
Phenanthrene	4780	J	53.7	633	µg/Kg	1			
Phenol	3320 ~~5400~~	~~E~~ DJ	44.9	633	µg/Kg	1			
Pyrene	2350	J	116	633	µg/Kg	1			
Surr:2,4,6-Tribromophenol	81			32 - 130	%REC	1	7/17/2003 4:42:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	59			27 - 123	%REC	1			

Definitions:

D = 1:10 DILUTION

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** SAMP **Matrix:** Solid

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	62			36 - 135	%REC	1			
Surr:Nitrobenzene-d5	73			25 - 122	%REC	1			
Surr:Phenol-d5	84			36 - 128	%REC	1			
Surr:Terphenyl-d14	138	*		51 - 116	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
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M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** SAMP

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
Matrix: SOLID **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3550B_TCL_S

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
~~123-42-2~~	~~2-Pentanone, 4-hydroxy-4-methyl-~~	~~4.66~~	~~93000~~	~~BNJ~~	~~µg/Kg~~	~~1~~	~~56~~ R	7/17/2003 4:42:00 PM	MOLLY_030717A	
~~128-37-0~~	~~Butylated Hydroxytoluene~~ unknown	16.89	11000	~~NJ~~	µg/Kg	1	97			
~~629-92-5~~	~~Nonadecane~~ alkane	20.42	370	~~NJ~~	µg/Kg	1	93			
~~18435-45-5~~	~~1-Nonadecene~~ unknown	21.37	3600	~~NJ~~	µg/Kg	1	87			
~~781-43-1~~	~~9,10-Dimethylanthracene~~ PAH	21.86	490	~~NJ~~	µg/Kg	1	98			
~~9355-11-7~~	~~1,1-Cyclohexane diacetic acid~~ unknown	22.32	7100	~~NJ~~	µg/Kg	1	53			
~~55937-98-9~~	~~BICYCLO(4_1_0)-HEPTANE-2,2,5,5-D4~~ unknown	23.04	6800	~~NJ~~	µg/Kg	1	38			
~~0-00-0~~	~~6-(1-Methylhydrazino)isocytosine hemihyd~~	23.24	6200	~~NJ~~	µg/Kg	1	25			
~~24309-28-2~~	~~1-Propene, 3-ethoxy-2-methyl-~~	23.76	35000	~~NJ~~	µg/Kg	1	47			
~~874-41-9~~	substituted Benzene, ~~1-ethyl-2,4-dimethyl-~~	24.3	5300	~~NJ~~	µg/Kg	1	38			
~~75-97-8~~	~~2-Butanone, 3,3-dimethyl-~~ unknown	24.98	9100	~~NJ~~	µg/Kg	1	43			
3166-54-9	Chloromethaqualone	25.19	9900	NJ	µg/Kg	1	50			
~~96-65-1~~	Phenol, ~~4,4'-methylenebis(2-(1,1-dimethy~~ substituted	~~25.93~~	47000	~~NJ~~	µg/Kg	1	55			
~~117-82-8~~	1,2-Benzenedicarboxylic acid, ~~bis(2-meth~~ substituted	26.29	6500	~~NJ~~	µg/Kg	1	41			
~~88932-52-0~~	~~(3R*,4S*)-3-(2-Nitro-4-methoxyphenyl)-4-~~ unknown	26.39	11000	~~NJ~~	µg/Kg	1	47			
~~0-00-0~~	~~DIISODECYL~~ PHTHALATE	26.45	11000	~~NJ~~	µg/Kg	1	53			
~~28553-12-0~~	1,2-Benzenedicarboxylic acid, ~~diisononyl~~ (26.505) substituted	26.51	13000	~~NJ~~	µg/Kg	1	72			
~~28553-12-0~~	1,2-Benzenedicarboxylic acid, ~~diisononyl~~ (26.567) unknown	26.57	9100	~~NJ~~	µg/Kg	1	86			
~~1675-54-3~~	~~Oxirane, 2,2'-((1-methylethylidene)bis(4-~~	27.28	440000	~~NJ~~	µg/Kg	1	70			
	Unknown unknown	28.16	20000	J	µg/Kg	1	0			
~~78147-89-4~~	~~cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10-~~	28.38	7600	~~NJ~~	µg/Kg	1	50			
~~0-00-0~~	~~3-Nitro-1,1'-biphenyl-~~ unknown	28.57	8000	~~NJ~~	µg/Kg	1	27			

Number TICs Found: 22

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
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ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
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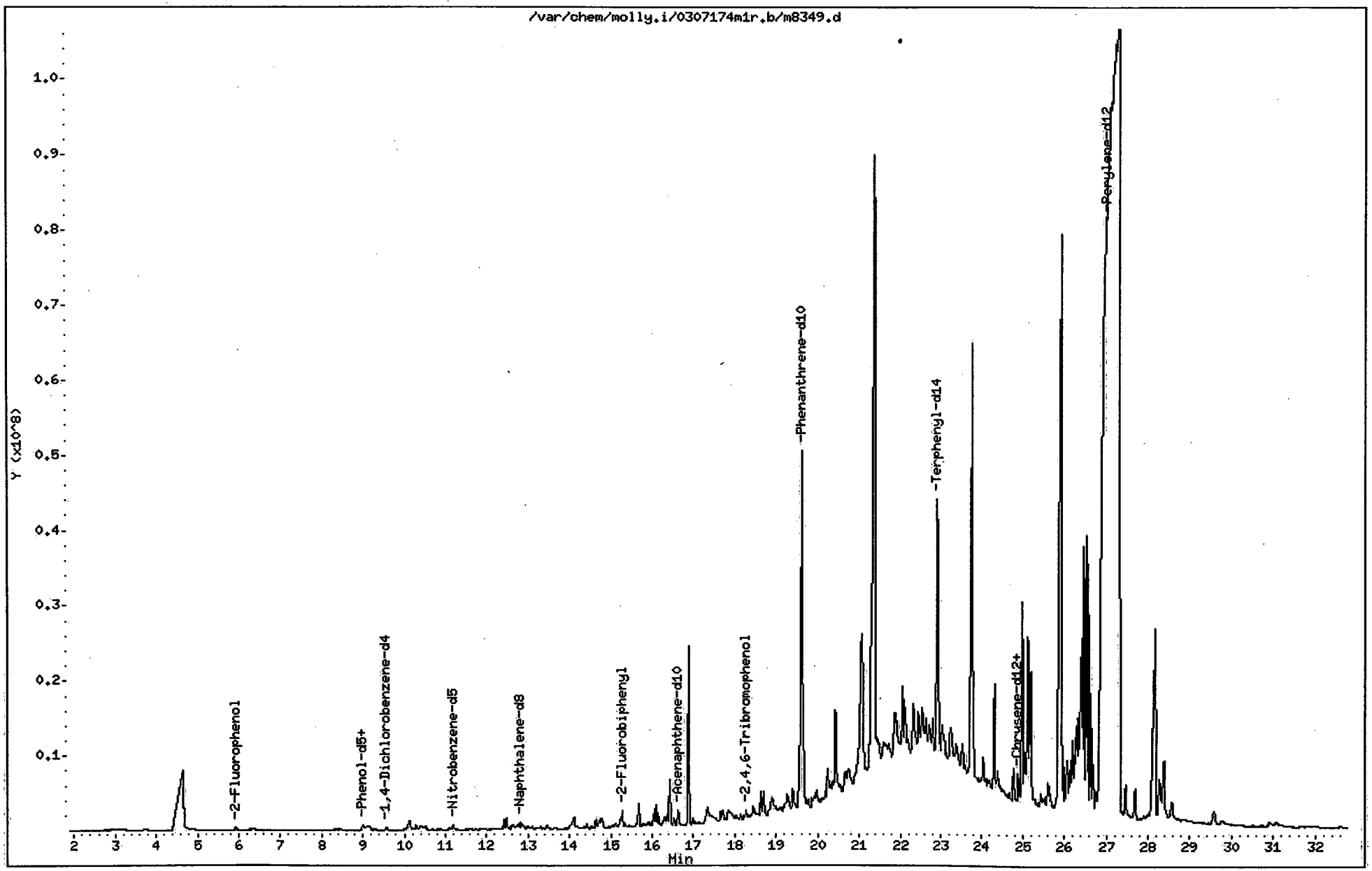
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Data File: /var/chem/molly.i/0307174m1r.b/m8349.d
Date : 17-JUL-2003 16:42
Client ID:
Sample Info: 0307090-05A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8349.d
Lab Smp Id: 0307090-05A
Inj Date : 17-JUL-2003 16:42
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05A
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.65000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.929	5.879	(0.620)	281970	74.1211	2370
4 Benzaldehyde	77	8.372	8.291	(0.876)	137382	38.0400	1220
$ 6 Phenol-d5	99	8.993	8.964	(0.940)	550973	100.674	3220
7 Phenol	94	9.159	8.995	(0.958)	1043456	169.086	5400(AM)
* 11 1,4-Dichlorobenzene-d4	152	9.562	9.564	(1.000)	120793	40.0000	
15 2-Methylphenol	108	10.680	10.651	(1.117)	40699	9.37374	299(a)
17 Acetophenone	105	10.835	10.827	(1.133)	94317	12.8942	412
18 4-Methylphenol	108	11.084	11.054	(1.159)	104422	22.0458	704
$ 21 Nitrobenzene-d5	82	11.187	11.189	(0.872)	490314	73.3160	2340
25 2,4-Dimethylphenol	107	12.326	12.296	(0.961)	49843	8.09826	259(a)

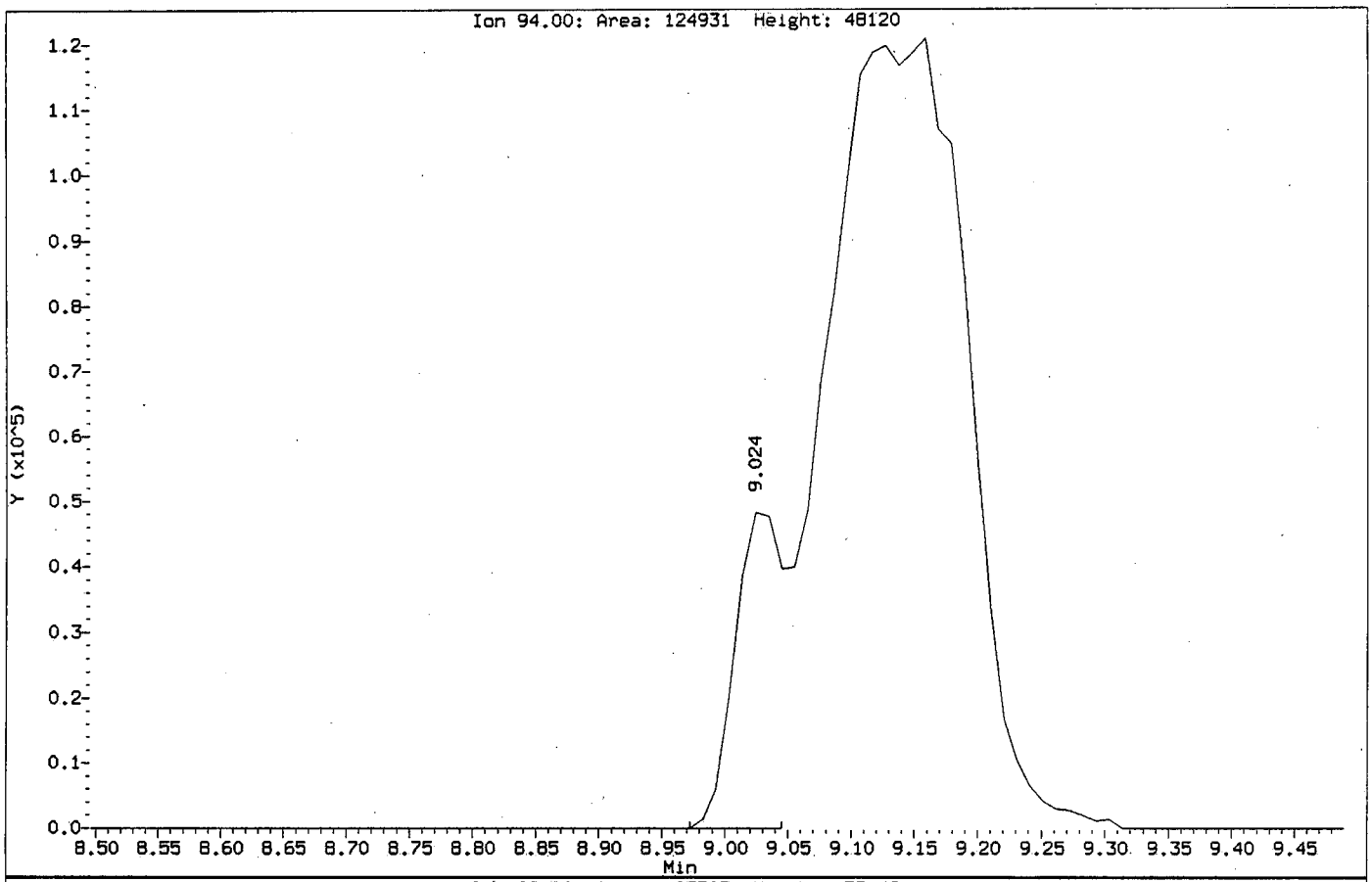
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
	27 Benzoic acid	122	12.771	12.627	(0.996)	292136	101.713	3250
*	30 Naphthalene-d8	136	12.823	12.824	(1.000)	491795	40.0000	
	31 Naphthalene	128	12.874	12.876	(1.004)	190057	13.2928	425
	34 Caprolactam	113	13.992	13.797	(1.091)	78549	48.7084	1560(H)
	36 2-Methylnaphthalene	141	14.416	14.418	(1.124)	210131	24.7533	791
$	40 2-Fluorobiphenyl	172	15.275	15.277	(0.919)	813342	58.5118	1870
	42 Biphenyl	154	15.441	15.443	(0.929)	59519	3.58042	114(a)
	44 Dimethyl phthalate	163	16.259	16.250	(0.978)	96548	5.77269	184(a)
*	47 Acenaphthene-d10	164	16.621	16.623	(1.000)	410483	40.0000	
	49 Acenaphthene	153	16.683	16.685	(1.004)	67556	5.12558	164(aQ)
	52 Dibenzofuran	168	17.014	17.016	(1.024)	331051	17.3999	556
	54 Diethyl phthalate	149	17.708	17.699	(1.065)	513393	28.6765	916(Q)
	55 Fluorene	166	17.718	17.720	(1.066)	188993	12.2487	391
	59 N-Nitrosodiphenylamine	169	18.039	18.030	(0.920)	282859	11.5341	368
$	60 2,4,6-Tribromophenol	330	18.277	18.258	(1.100)	182861	97.4243	3110
	64 Pentachlorophenol	266	19.436	19.396	(0.991)	56131	14.0337	448(aM) DEZ/19/03
*	65 Phenanthrene-d10	188	19.612	19.593	(1.000)	1658831	40.0000	
	66 Phenanthrene	178	19.664	19.645	(1.003)	7279924	149.547	4780
	69 Di-n-butyl phthalate	149	21.061	21.001	(1.074)	31583179	504.794	16100(A)
	70 Fluoranthene	202	22.117	22.056	(1.128)	5129678	86.2848	2760
	72 Pyrene	202	22.552	22.491	(0.906)	3992851	73.5378	2350
$	73 Terphenyl-d14	244	22.945	22.895	(0.922)	4720914	138.177	4410(R)
	74 Butyl benzyl phthalate	149	24.032	23.992	(0.965)	614393	22.4913	718
*	77 Chrysene-d12	240	24.891	24.861	(1.000)	1969163	40.0000	
	78 Chrysene	228	24.932	24.913	(1.002)	153262	2.77451	88.6(a)
	79 Bis(2-ethylhexyl)phthalate	149	25.108	25.089	(1.009)	3266206	79.3407	2530
*	84 Perylene-d12	264	27.075	27.004	(1.000)	711315	40.0000	

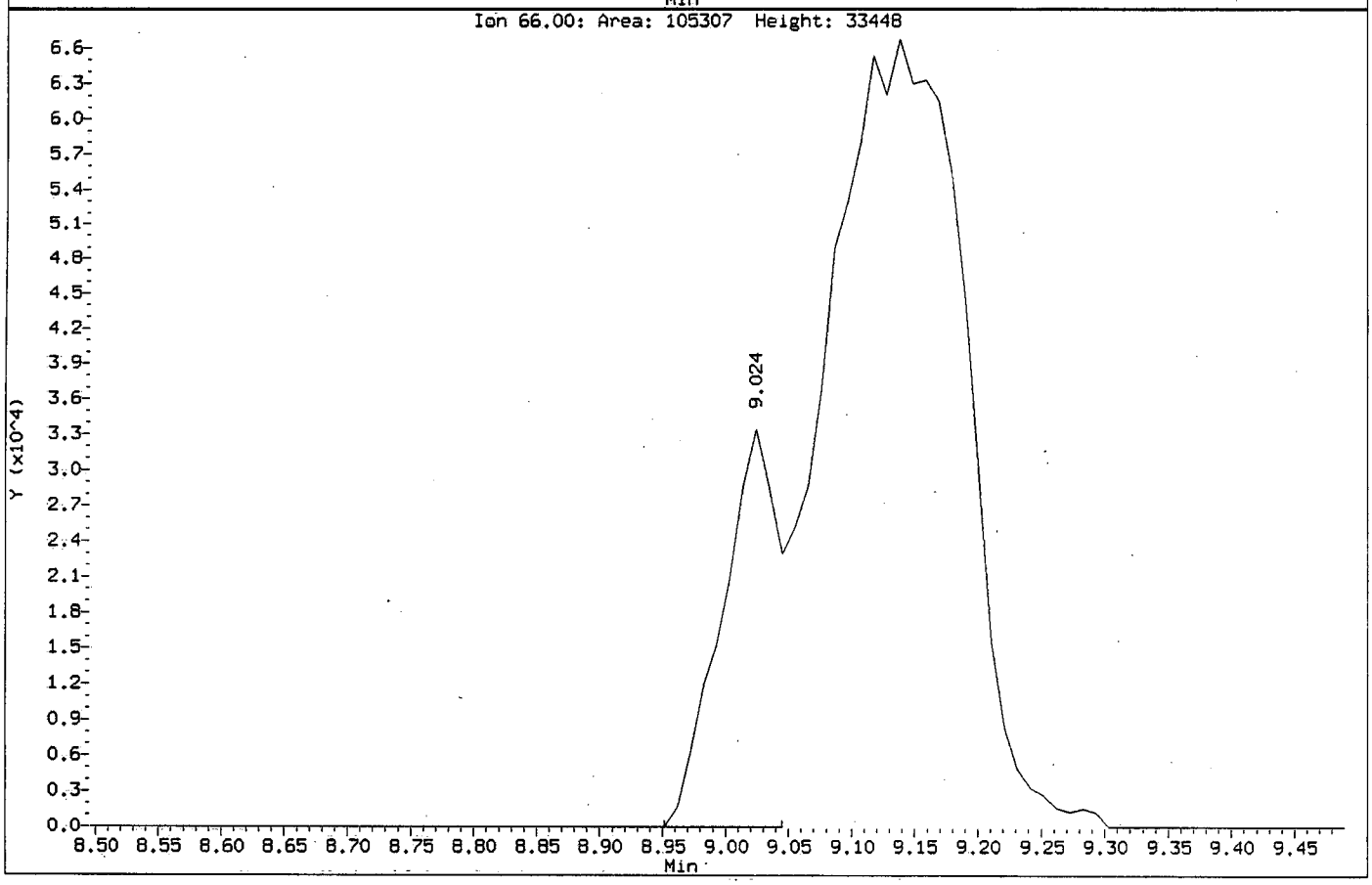
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307174m1r.b/m8349.d
Injection Date: 17-JUL-2003 16:42
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

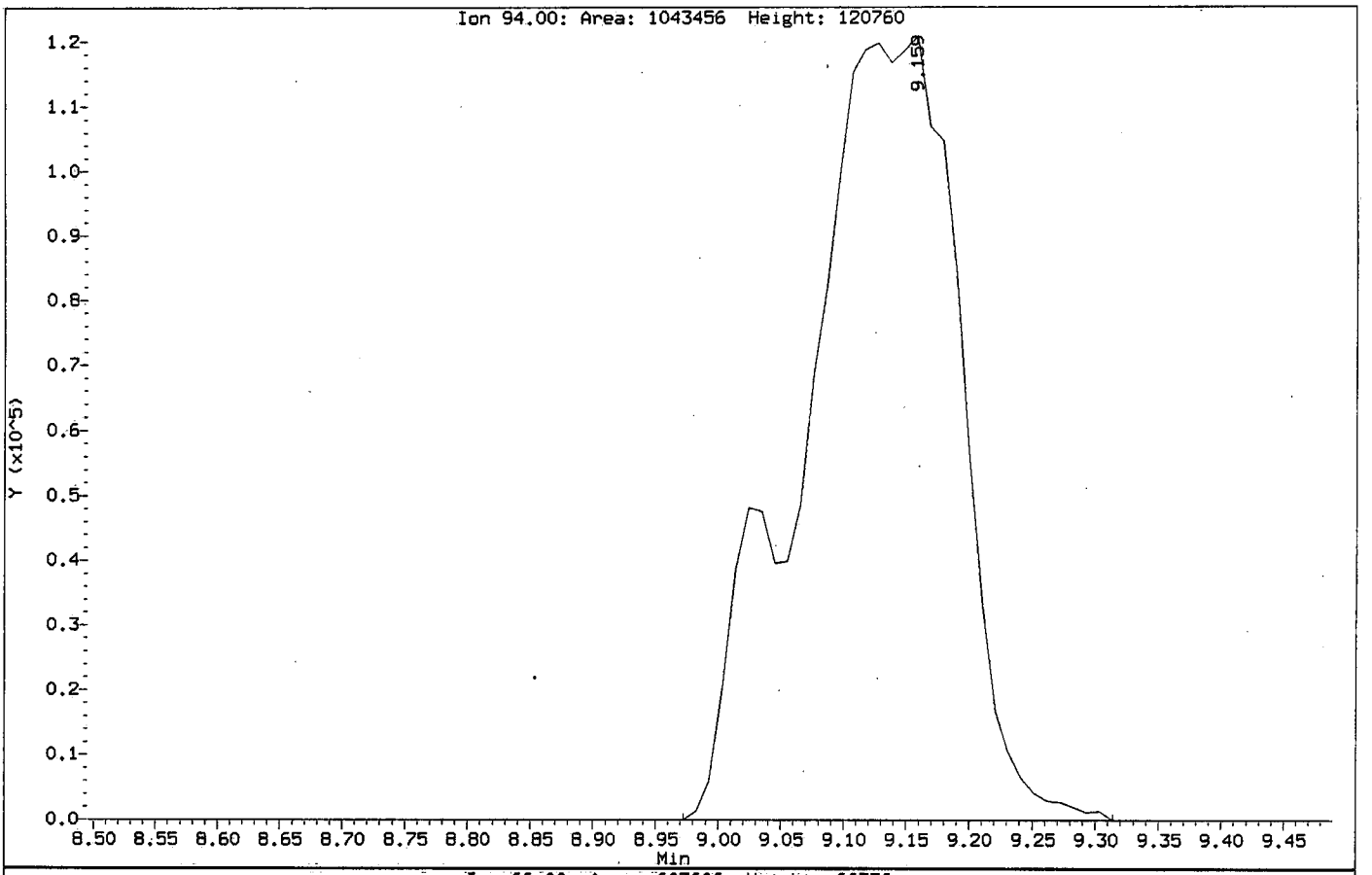


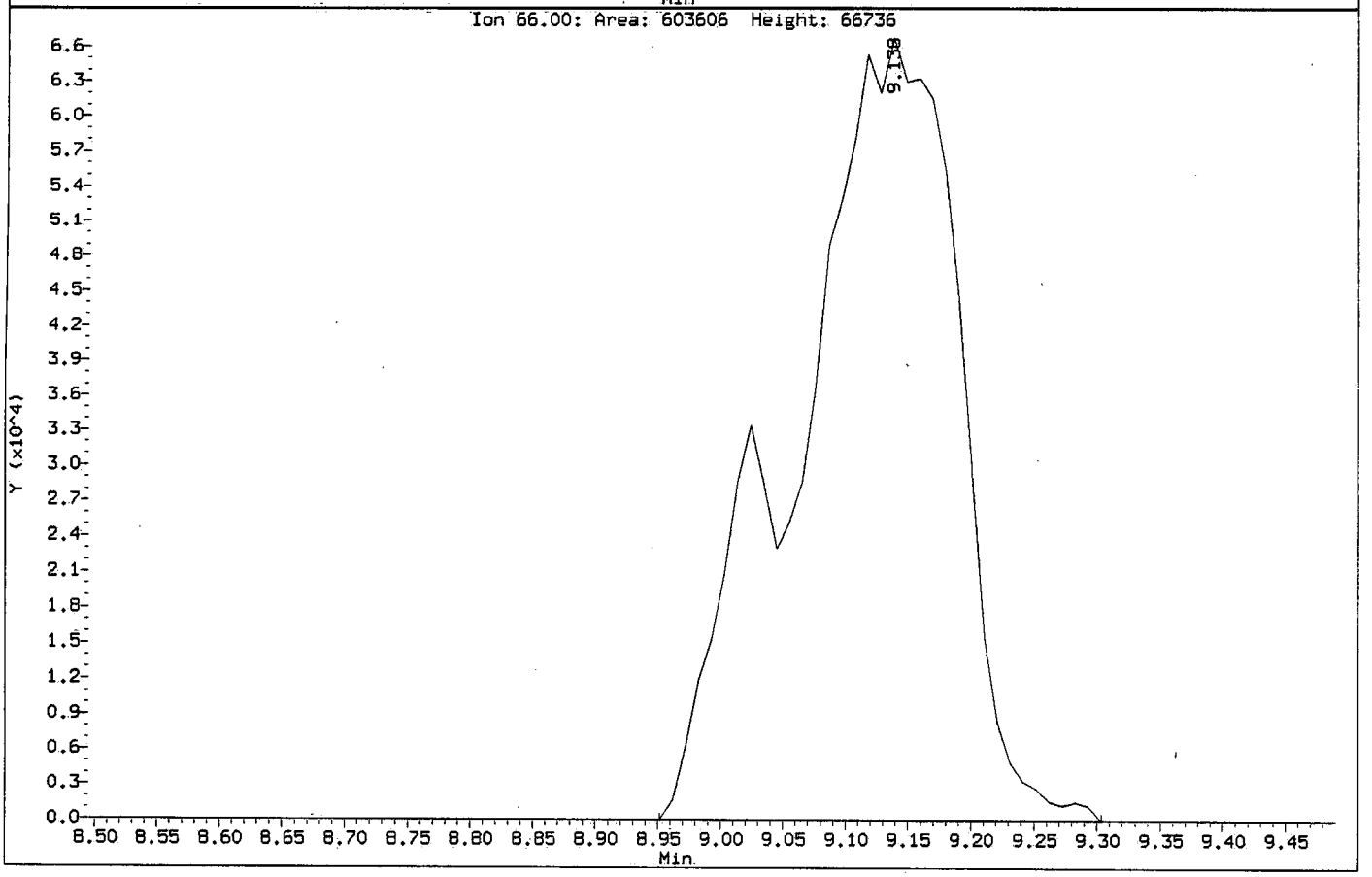


Data File: /var/chem/molly.i/0307174m1r.b/m8349.d
Injection Date: 17-JUL-2003 16:42
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

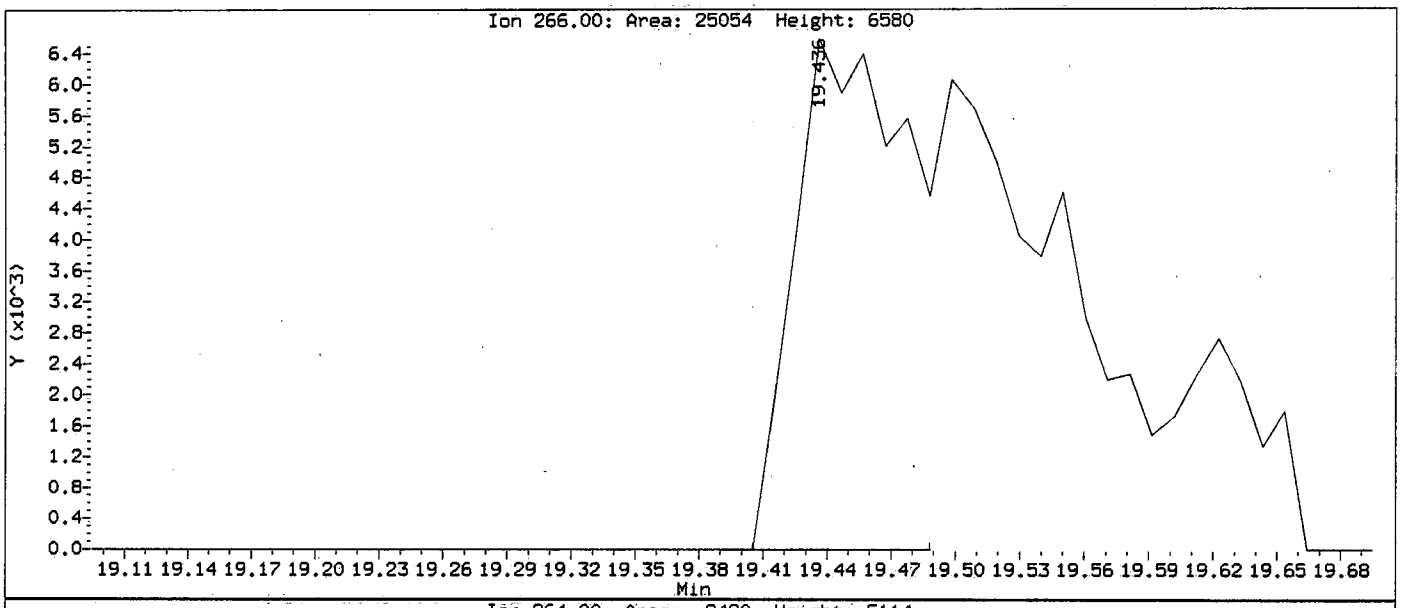
[illegible] 7/19/03
integrate entire area
Kathy Kubert 7/21/03

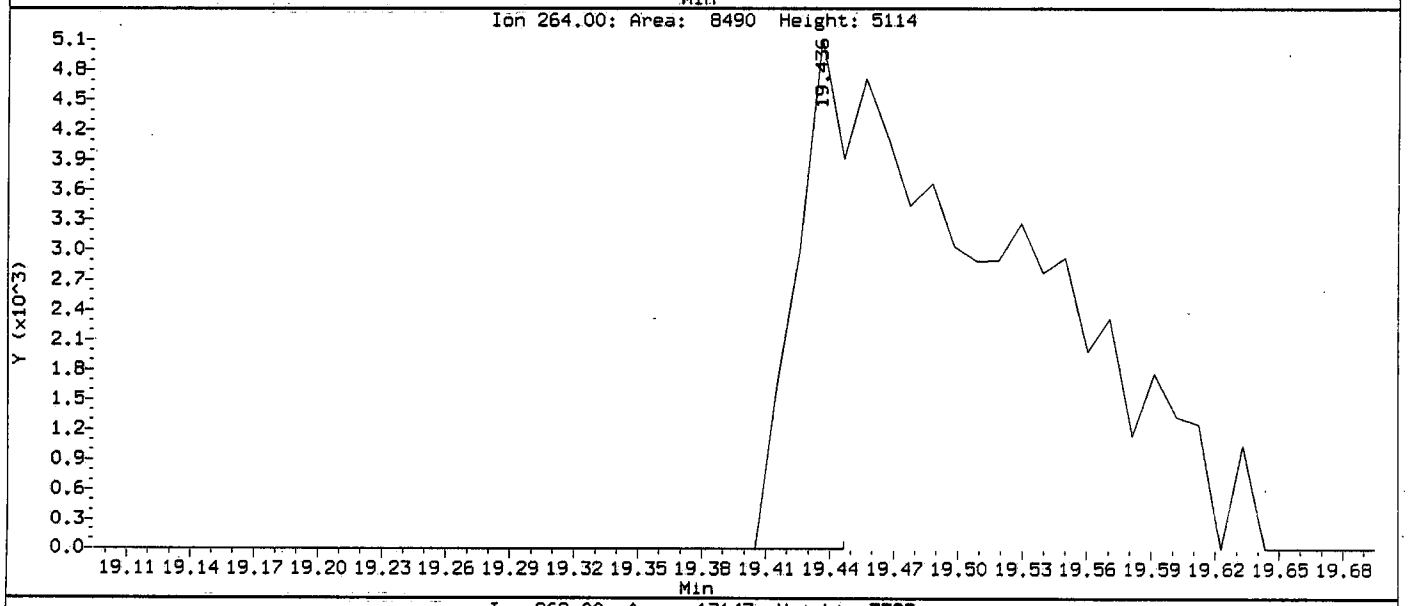


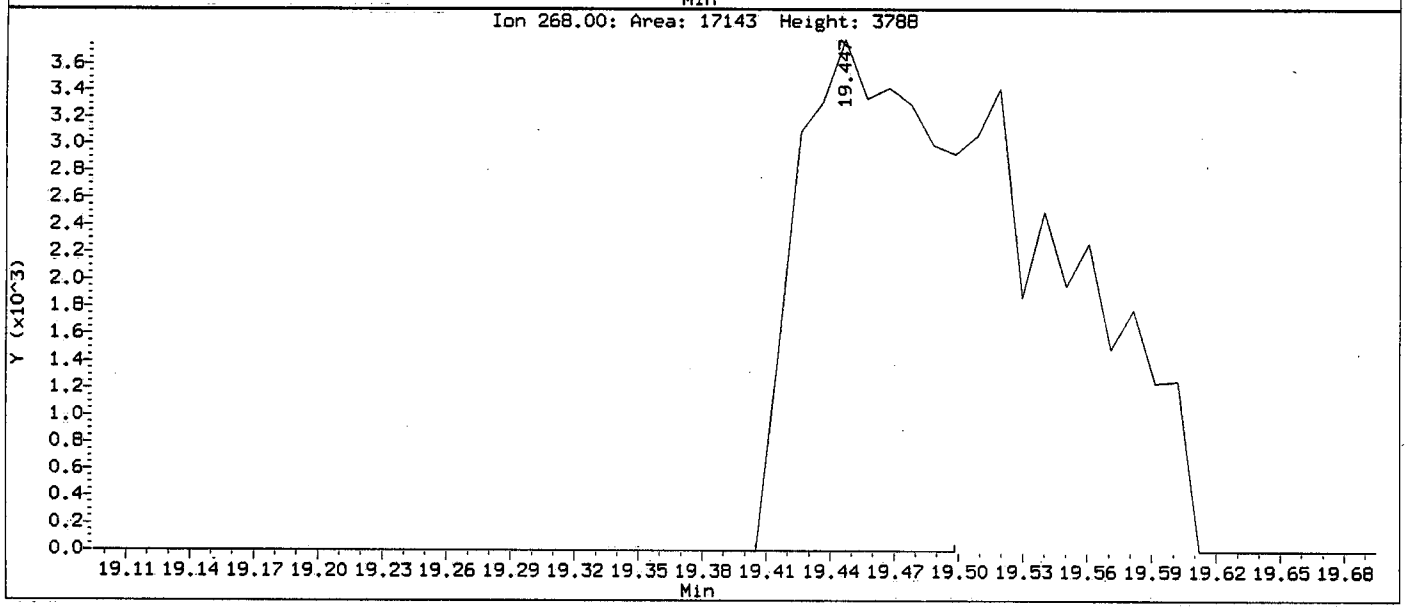


Data File: /var/chem/molly.i/0307174m1r.b/m8349.d
Injection Date: 17-JUL-2003 16:42
Instrument: molly.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



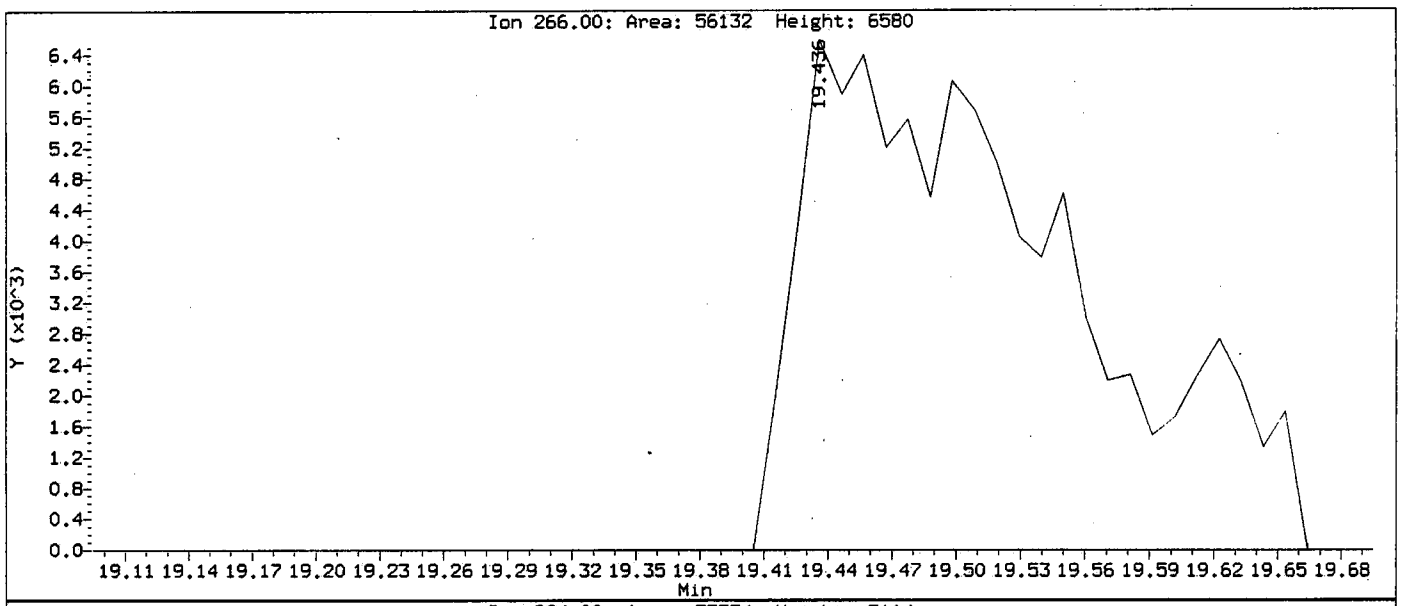


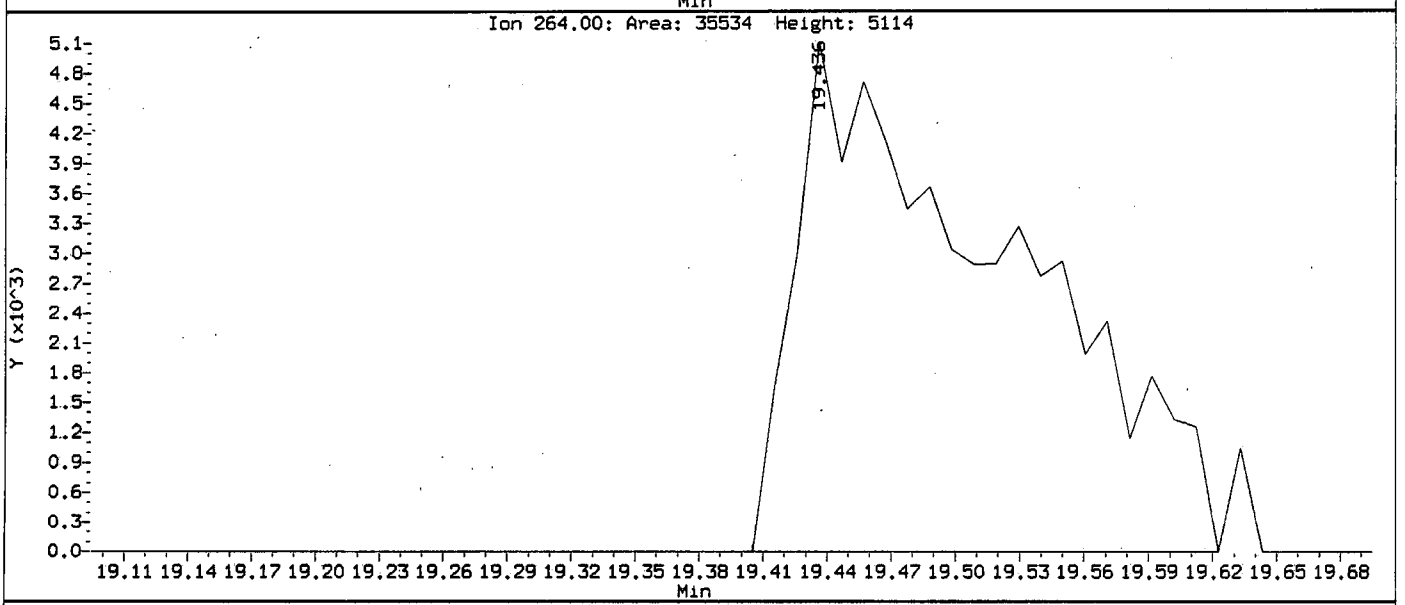


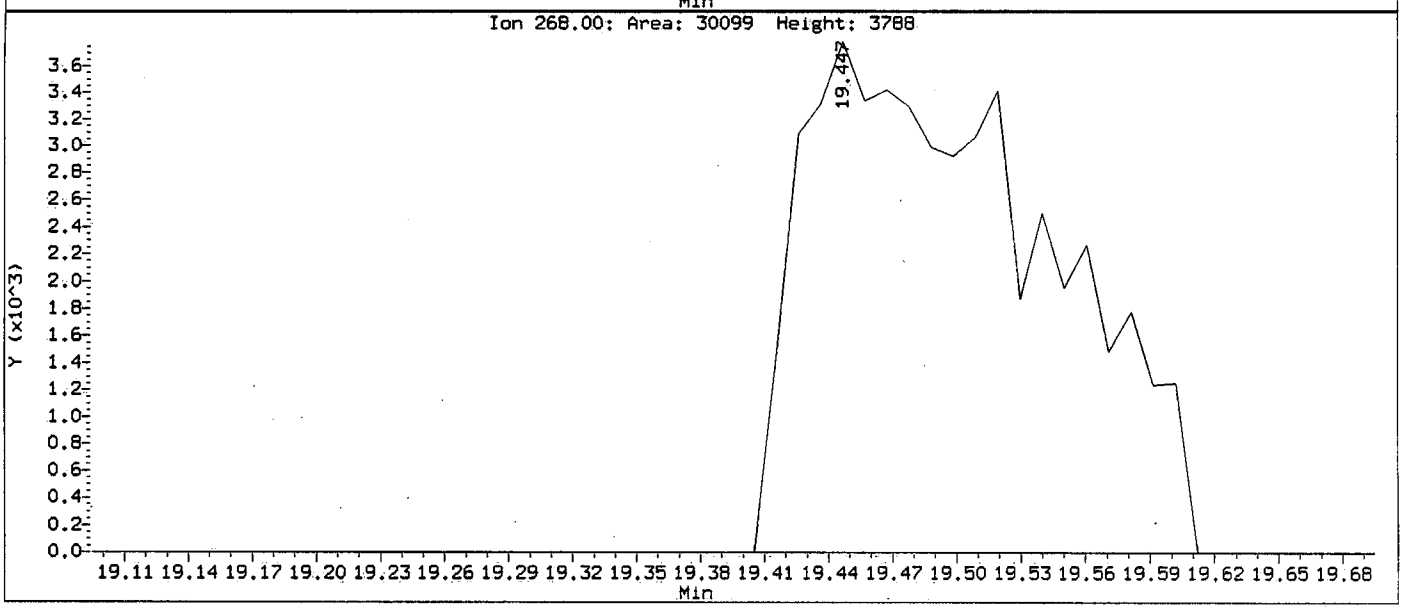
Data File: /var/chem/molly.i/0307174m1r.b/m8349.d
Injection Date: 17-JUL-2003 16:42
Instrument: molly.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5

Allen 7/19/03
integrate entire area
Kathy Kurtz 7/21/03







Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

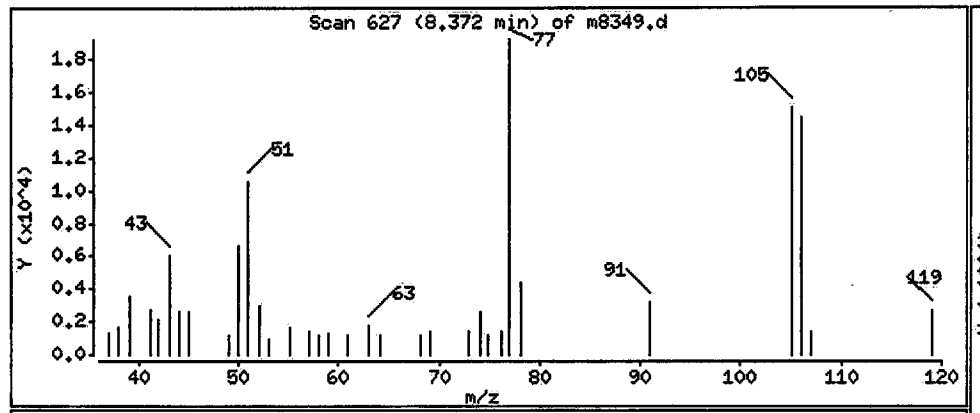
Operator: dce

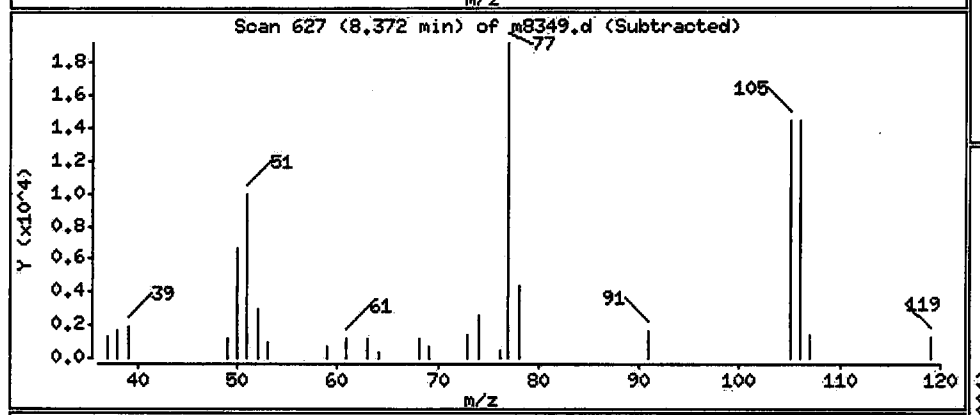
Column phase: ZB-5

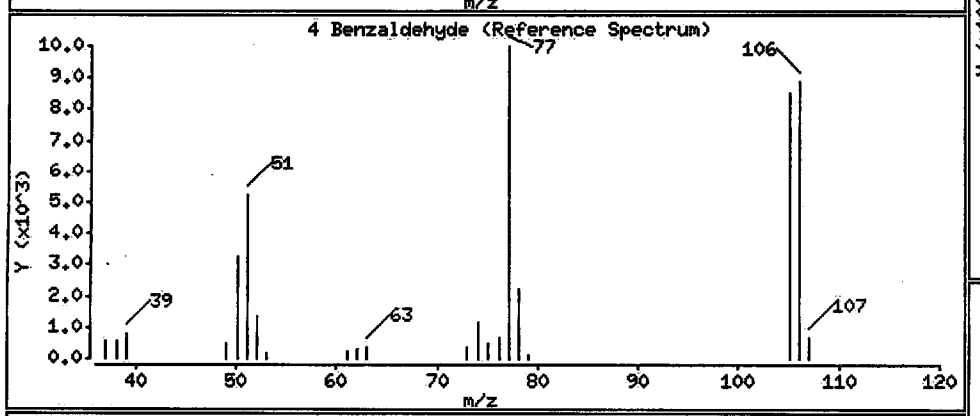
Column diameter: 0.25

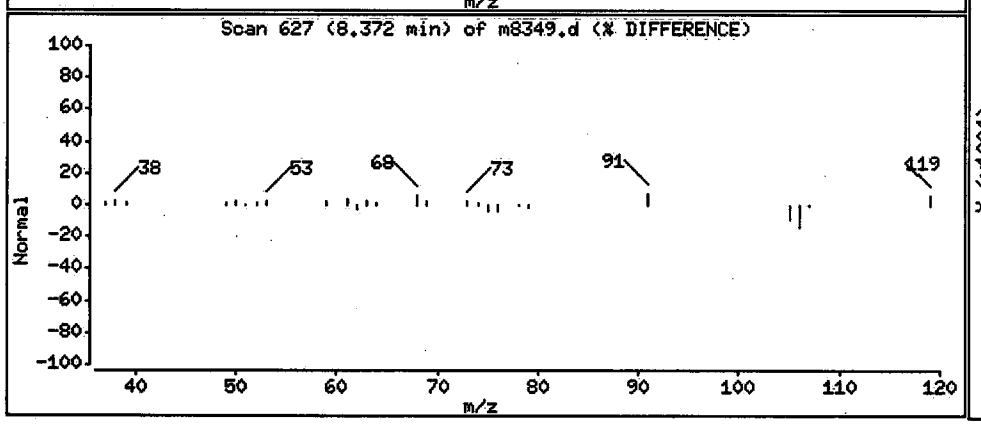
4 Benzaldehyde

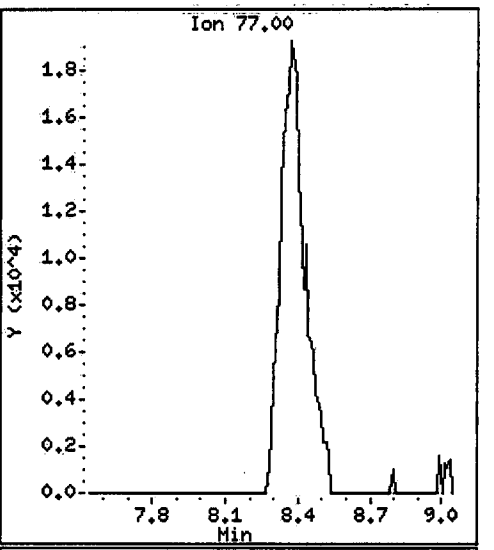
Concentration: 1220 ug/Kg

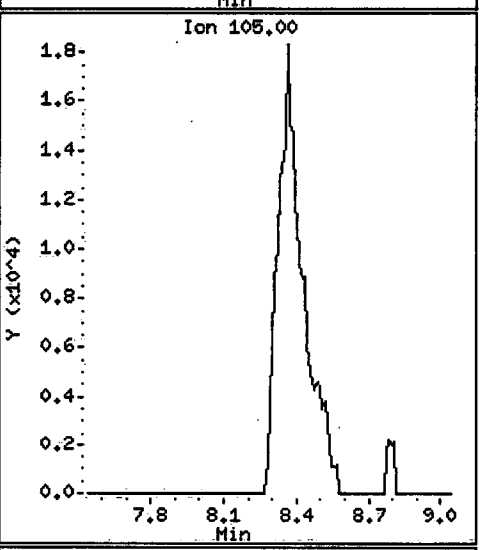


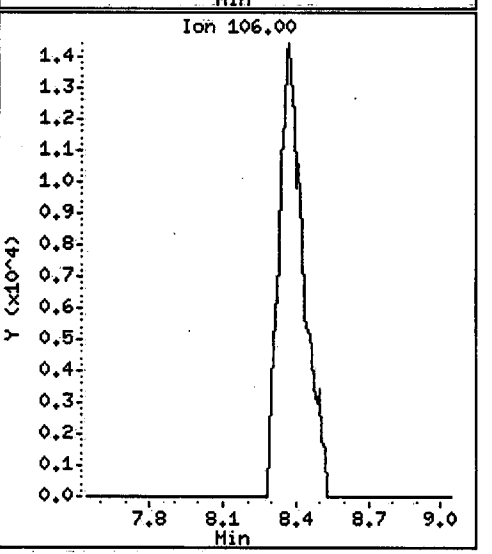












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

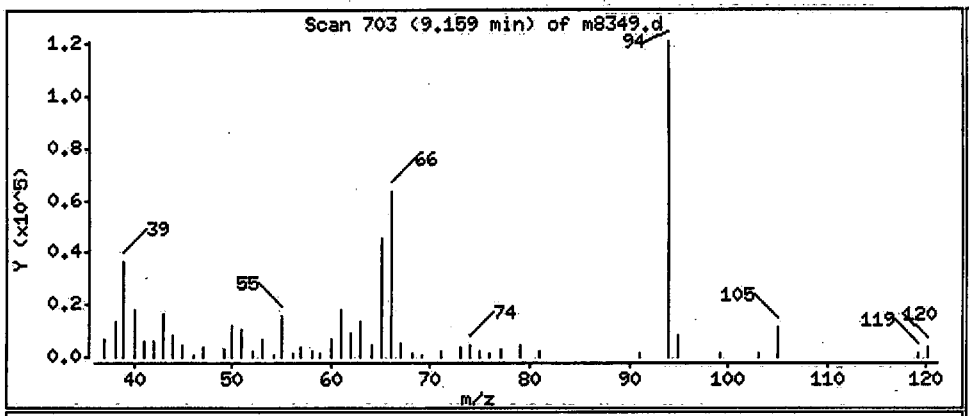
Operator: dce

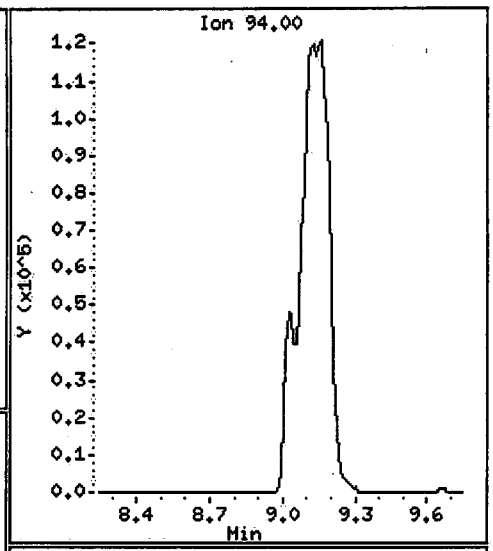
Column phase: ZB-5

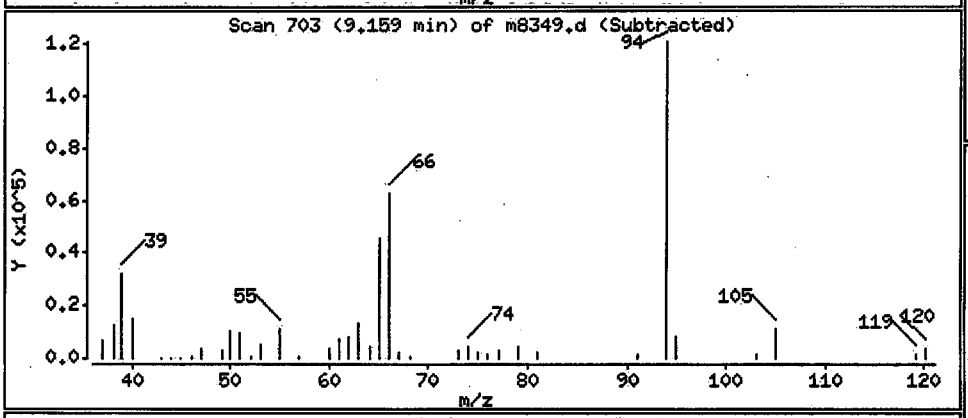
Column diameter: 0.25

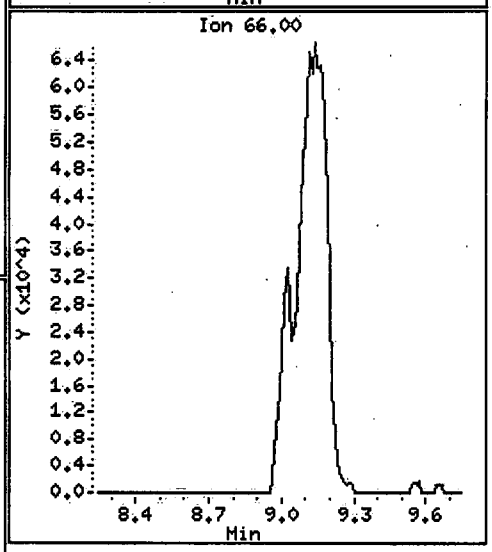
7 Phenol

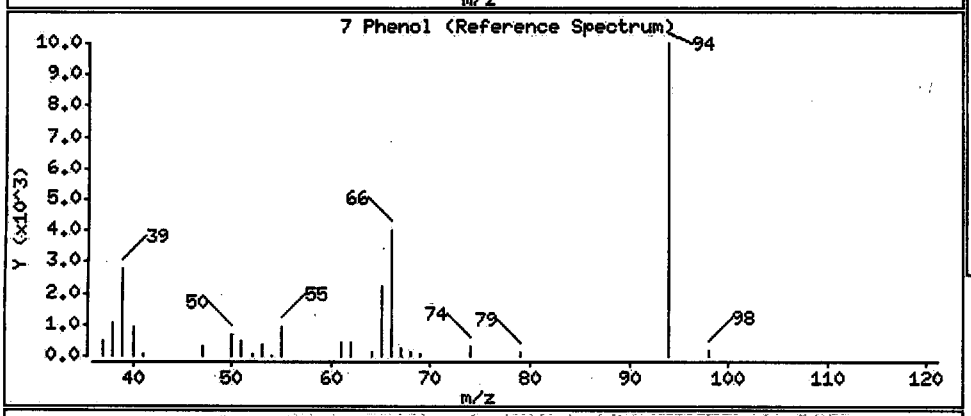
Concentration: 5400 ug/Kg

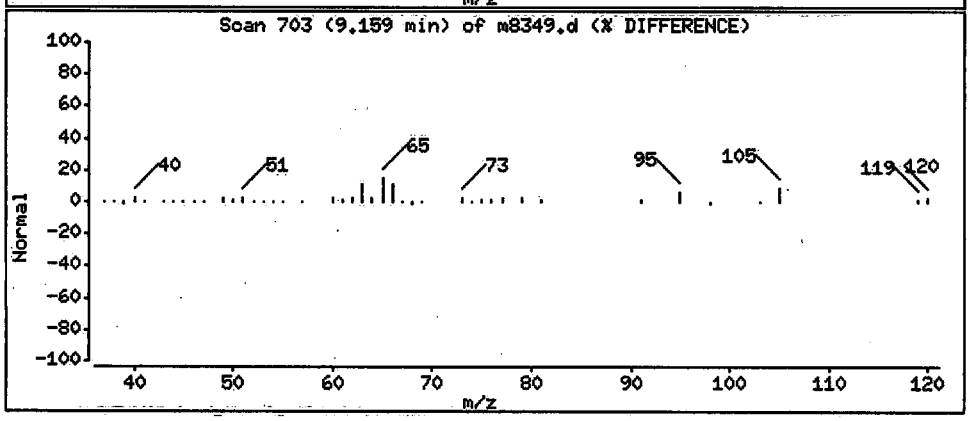












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

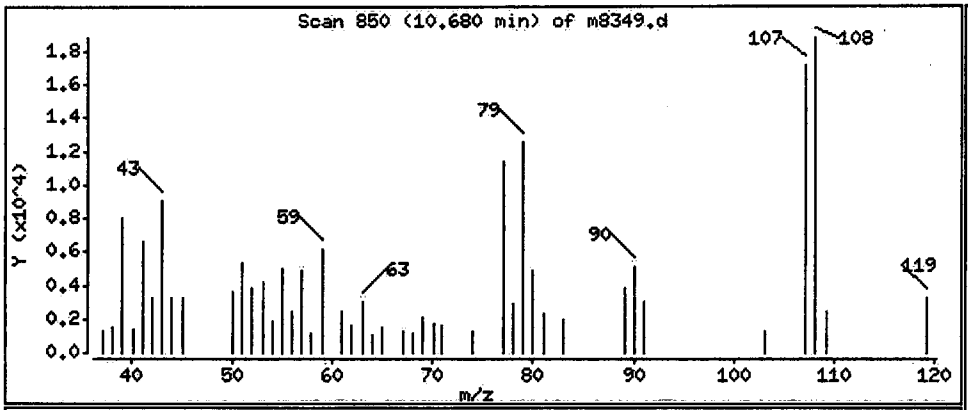
Operator: dce

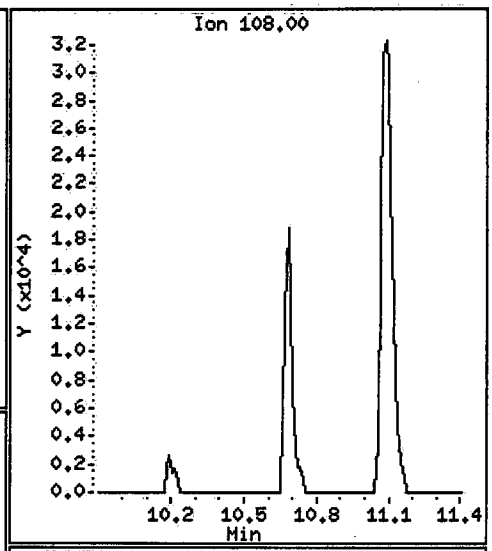
Column phase: ZB-5

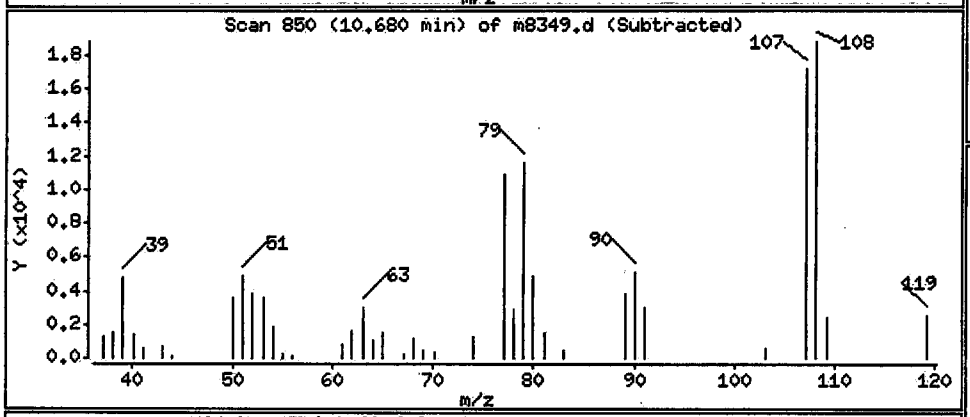
Column diameter: 0.25

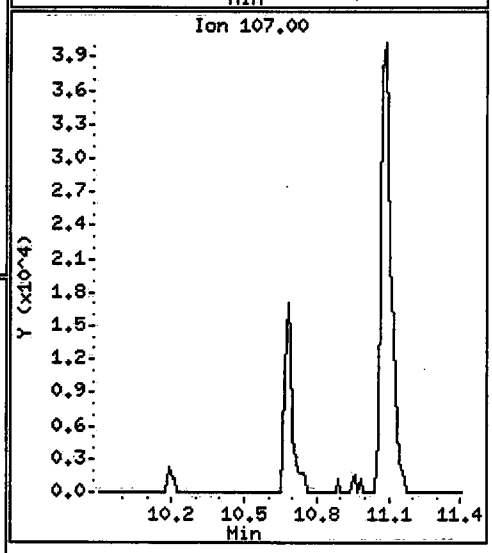
15 2-Methylphenol

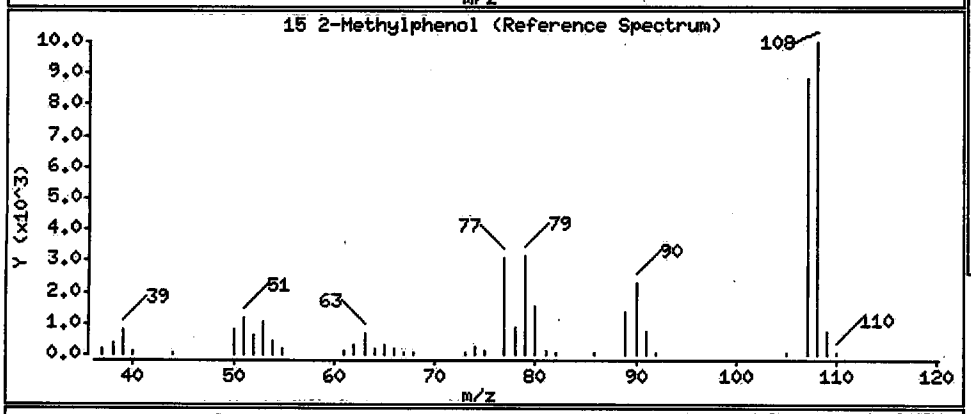
Concentration: 299 ug/Kg

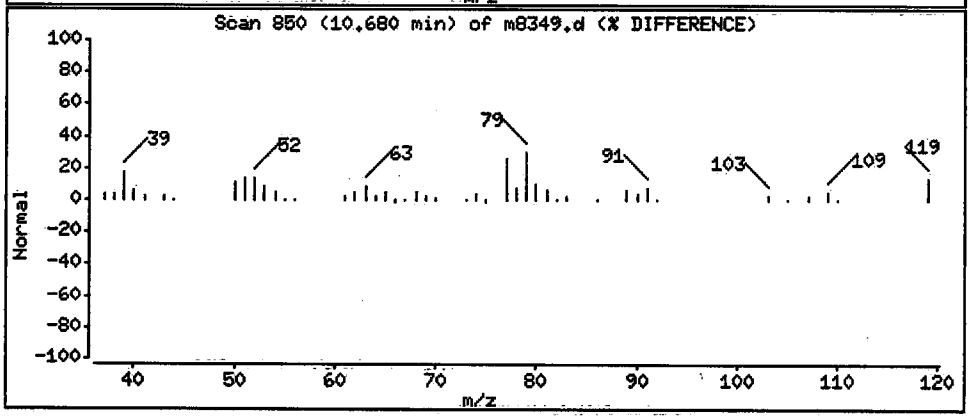












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

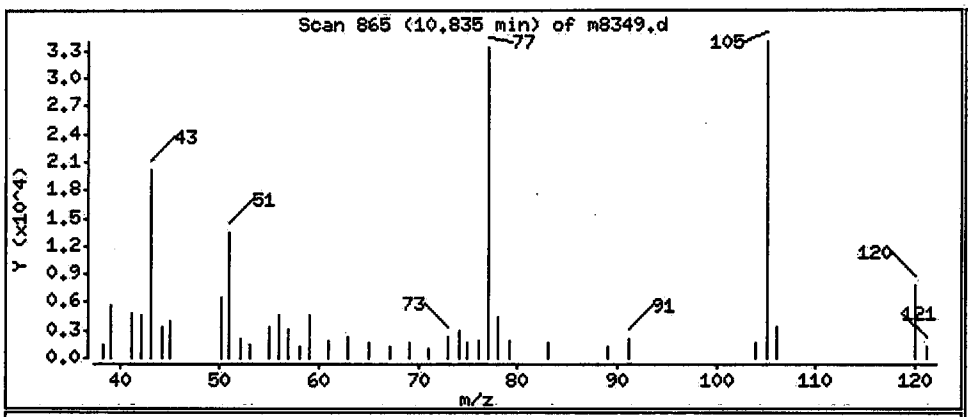
Operator: dce

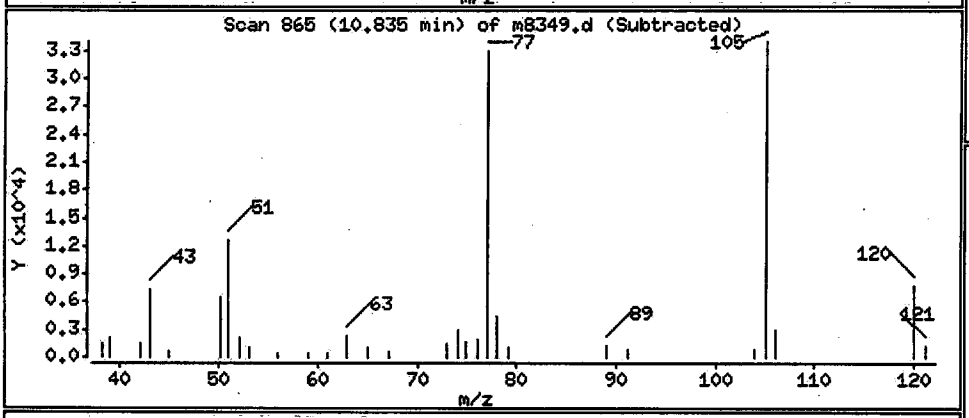
Column phase: ZB-5

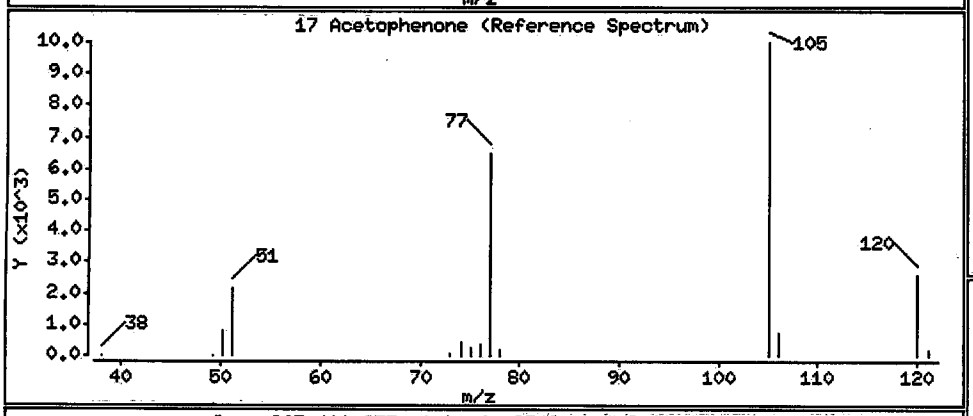
Column diameter: 0.25

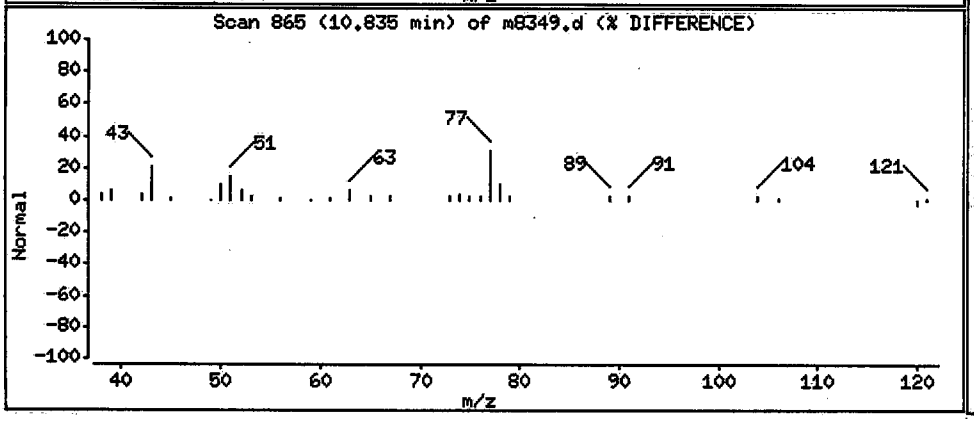
17 Acetophenone

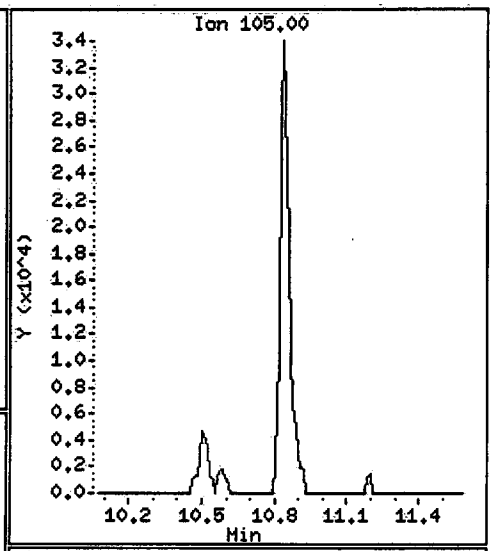
Concentration: 412 ug/Kg

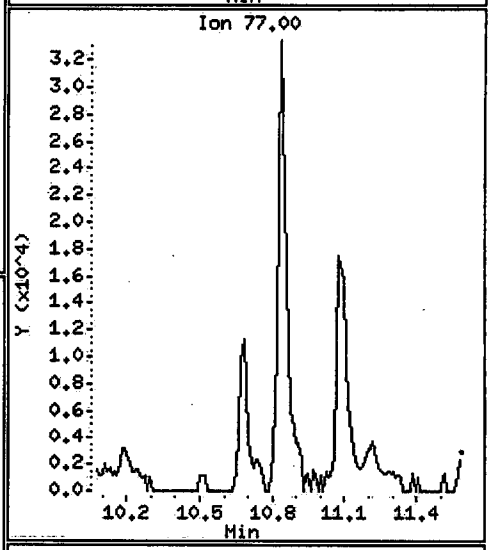


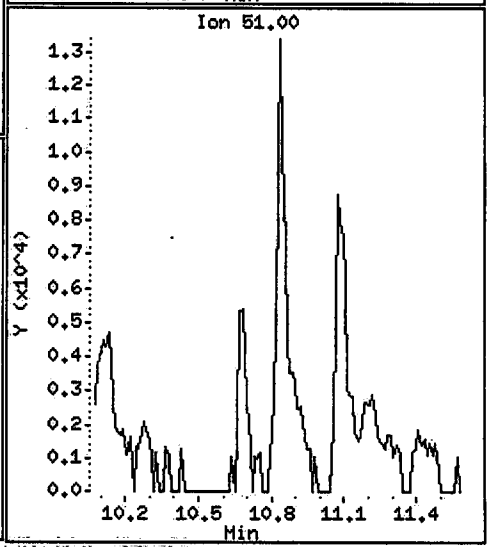












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

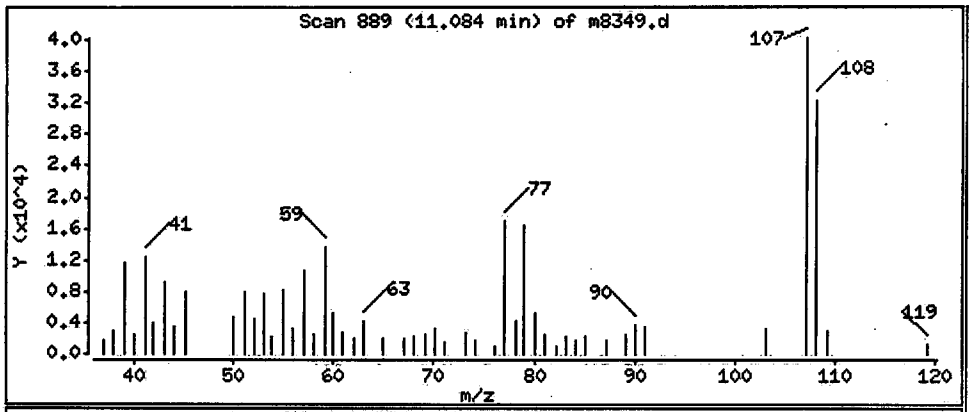
Operator: dce

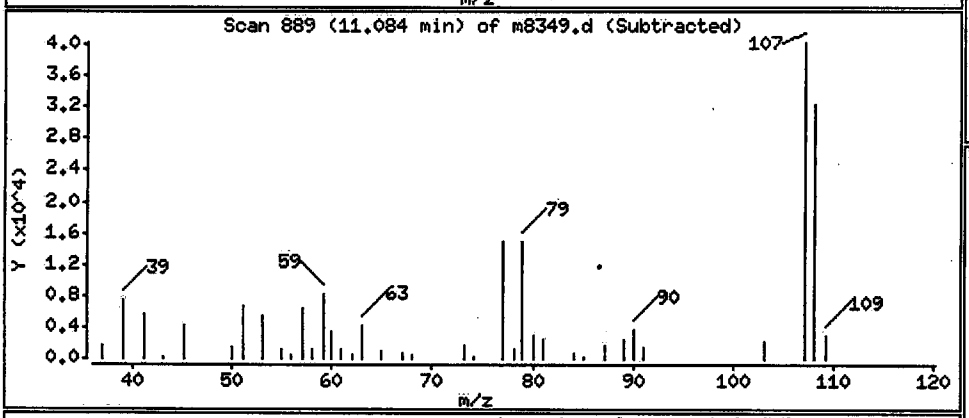
Column phase: ZB-5

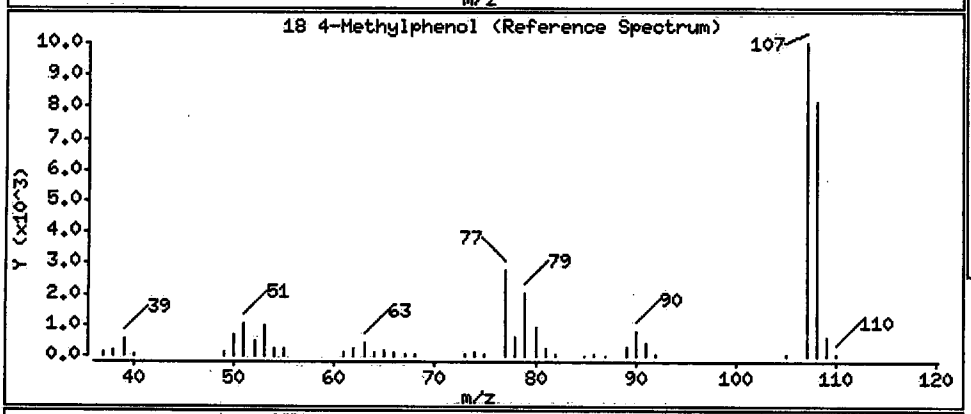
Column diameter: 0.25

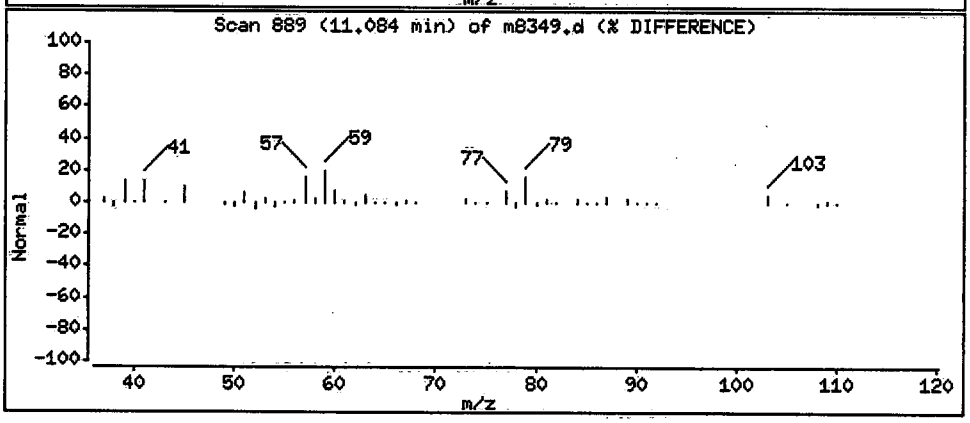
18 4-Methylphenol

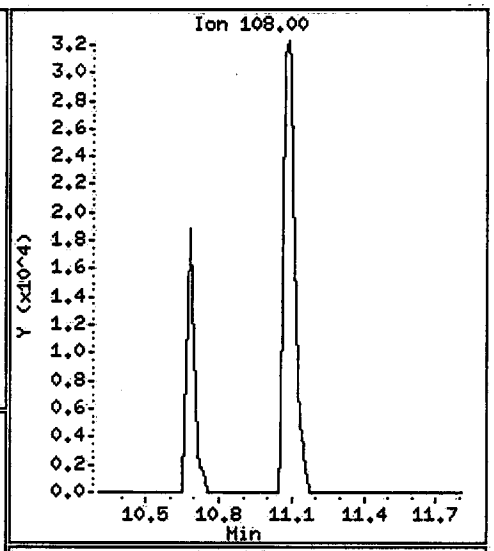
Concentration: 704 ug/Kg

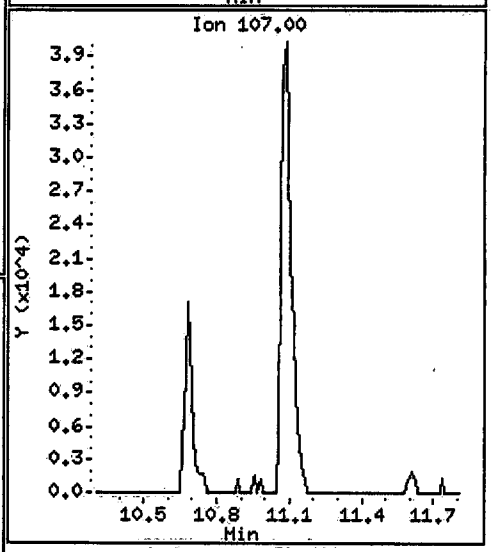












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

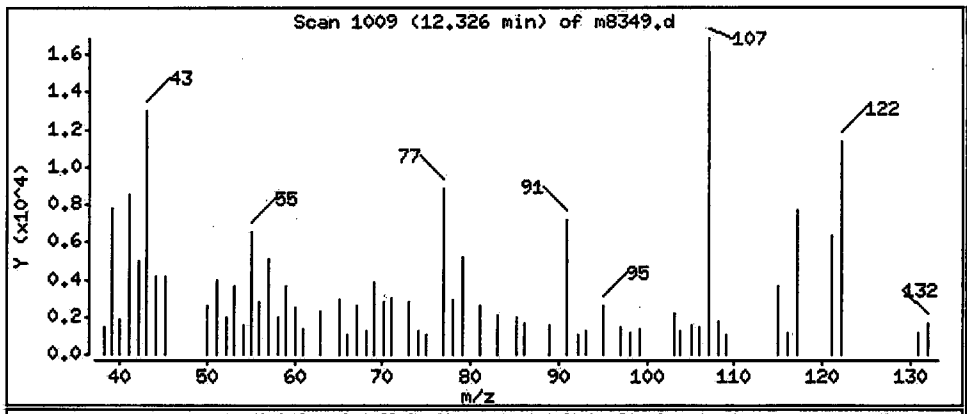
Operator: dce

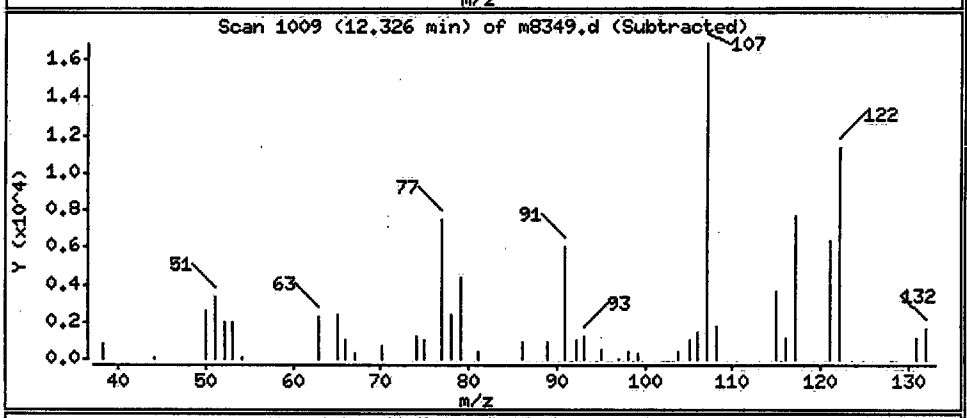
Column phase: ZB-5

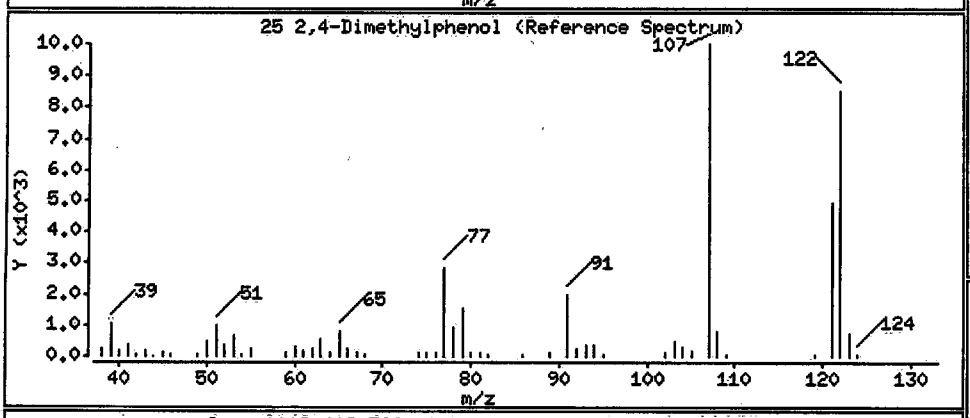
Column diameter: 0.25

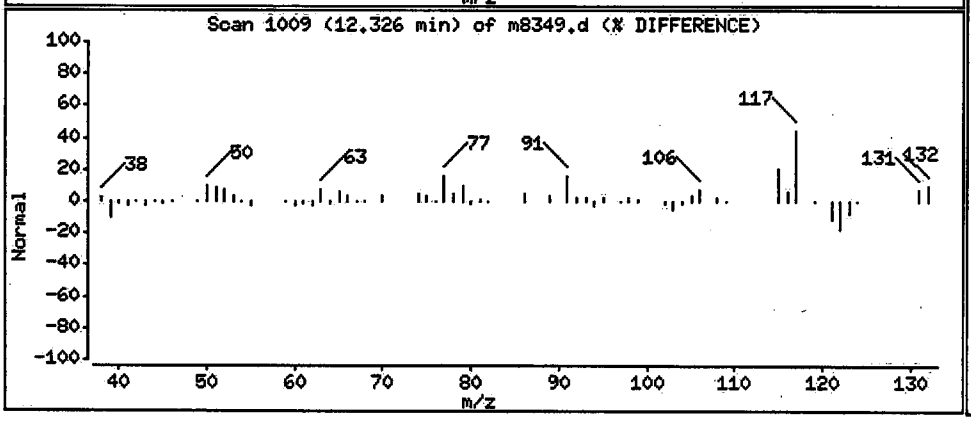
25 2,4-Dimethylphenol

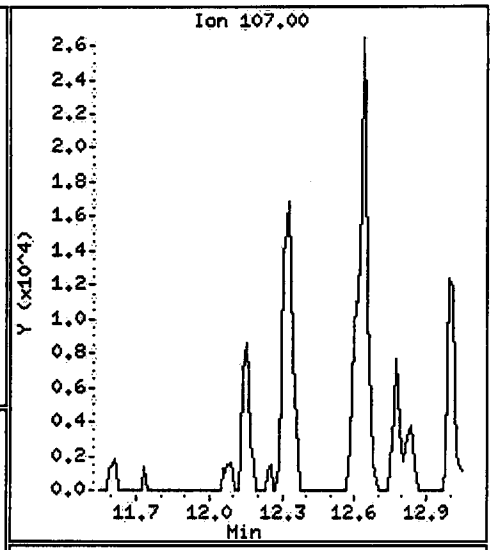
Concentration: 259 ug/Kg

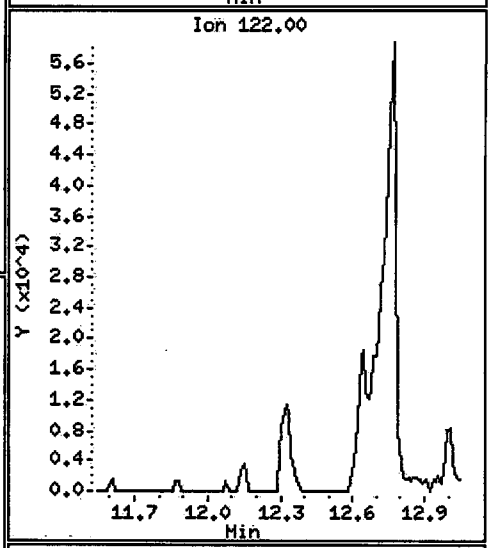


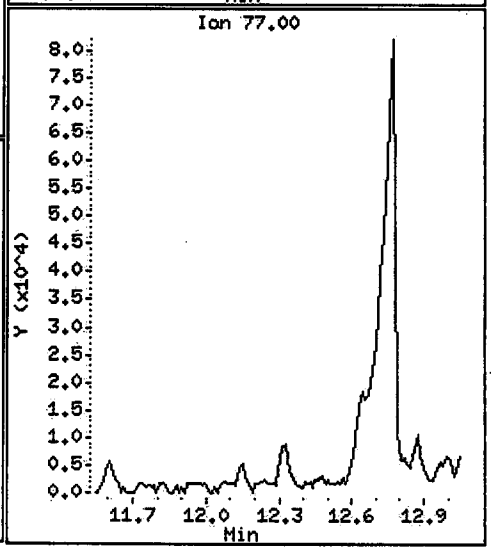












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

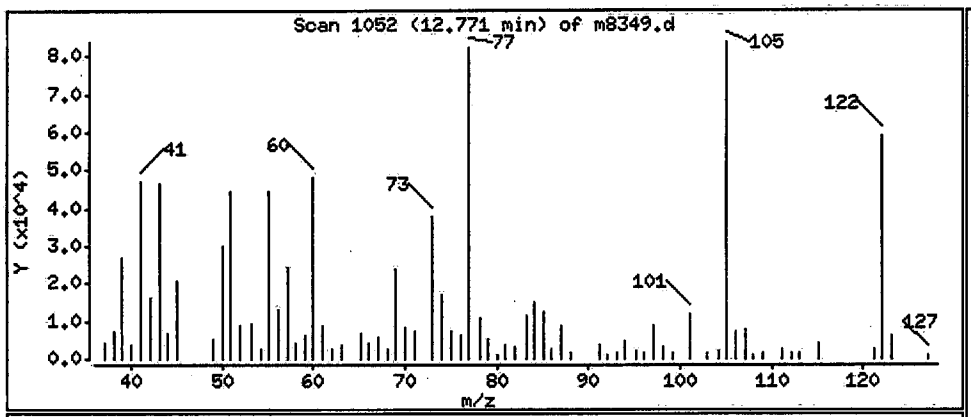
Operator: dce

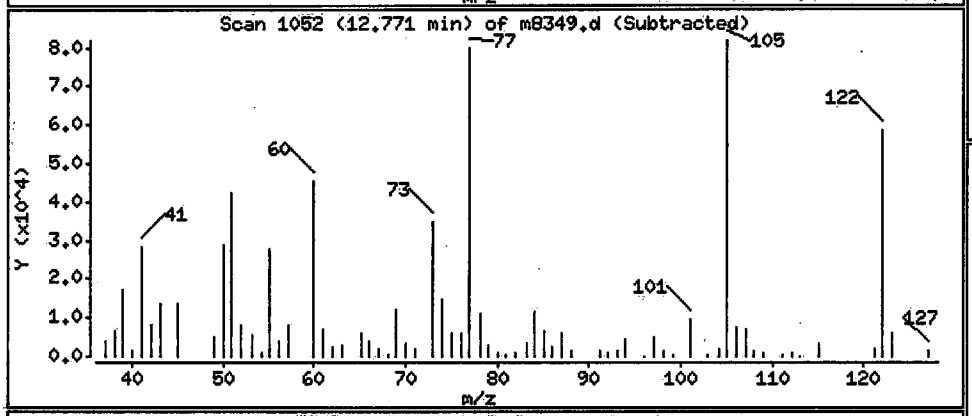
Column phase: ZB-5

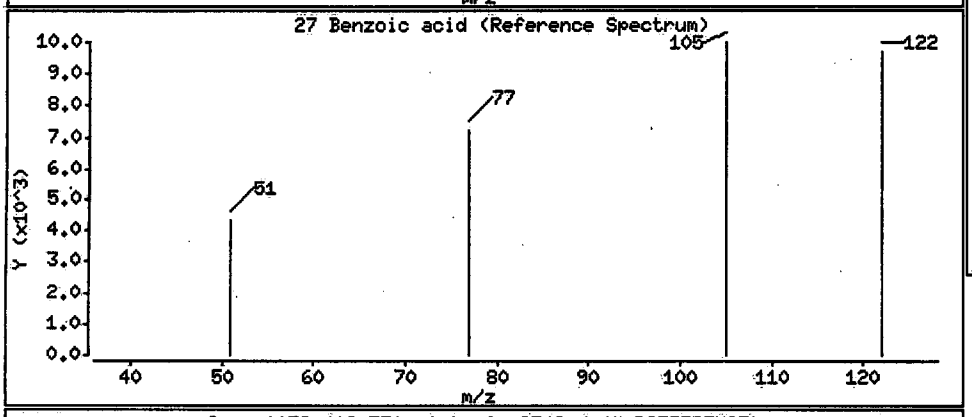
Column diameter: 0.25

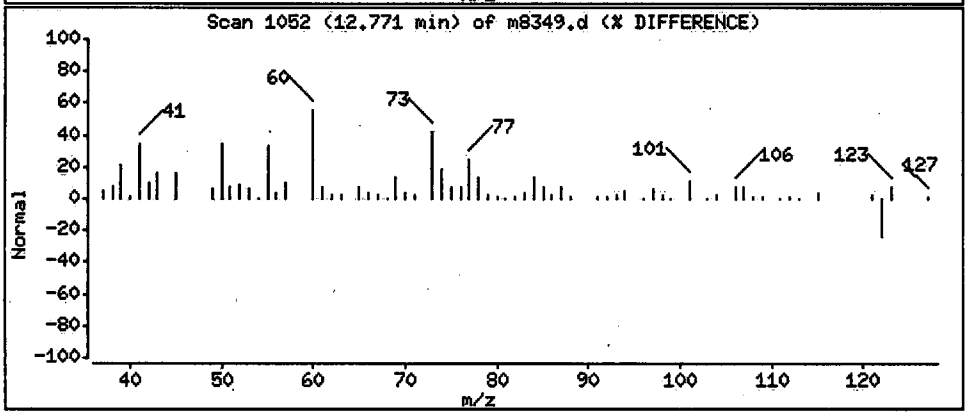
27 Benzoic acid

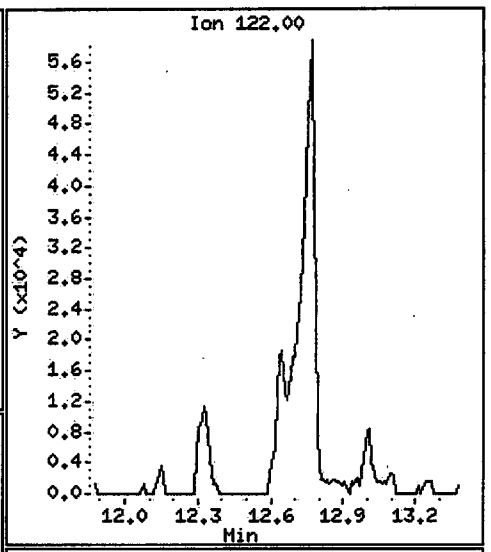
Concentration: 3250 ug/Kg

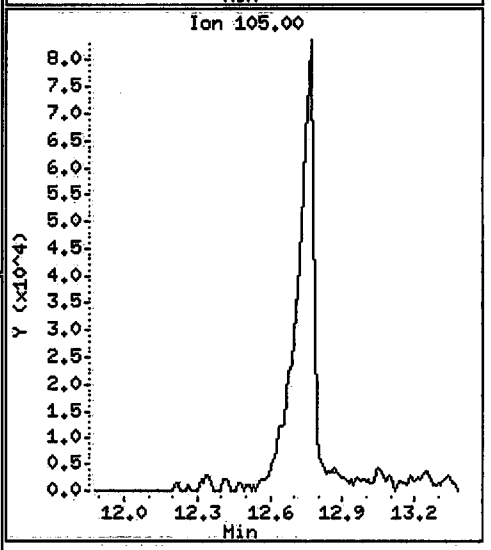












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

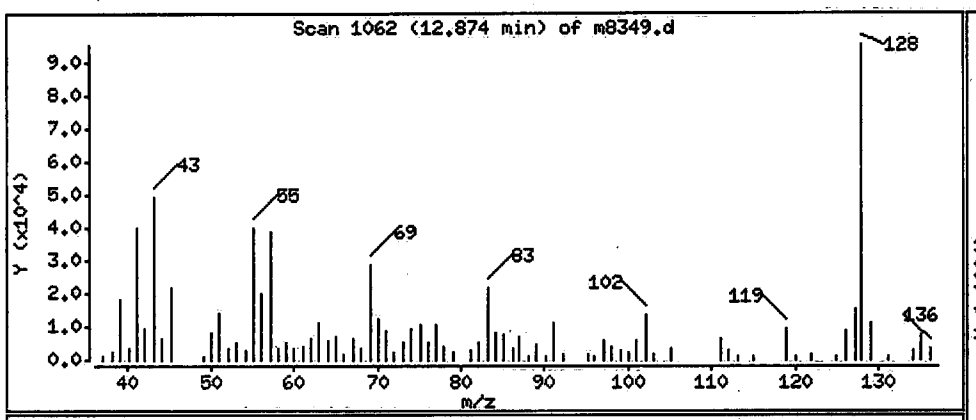
Operator: dce

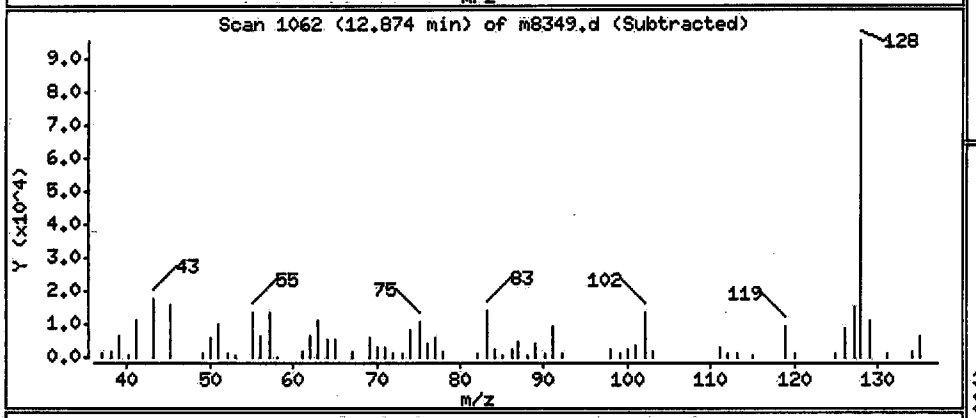
Column phase: ZB-5

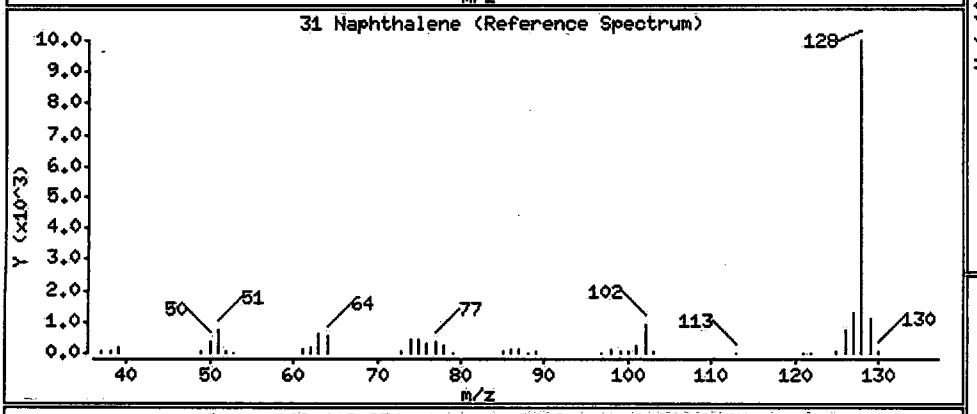
Column diameter: 0.25

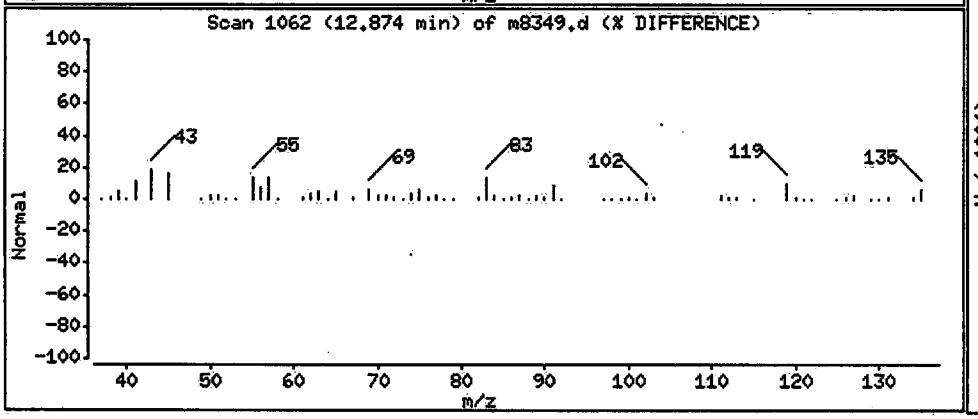
31 Naphthalene

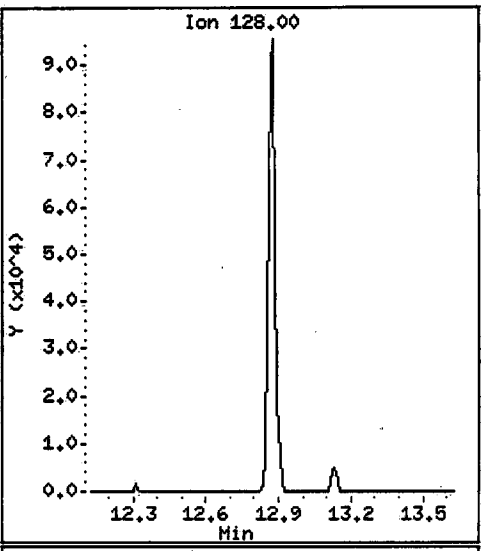
Concentration: 425 ug/Kg

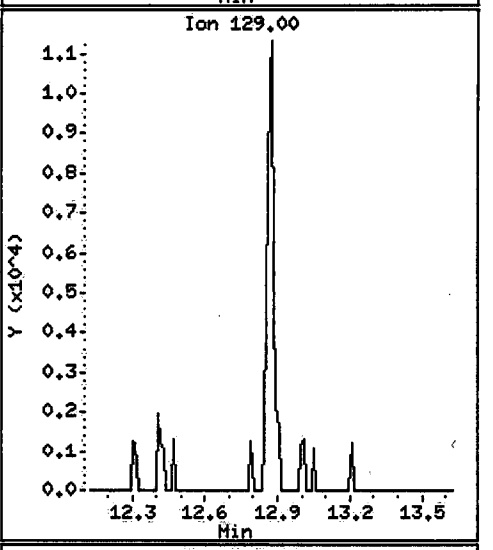


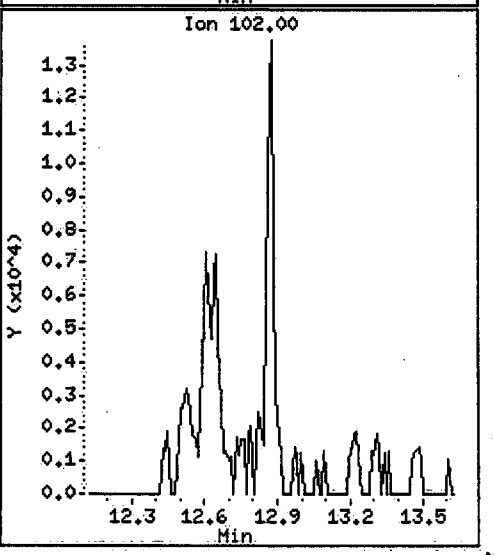












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

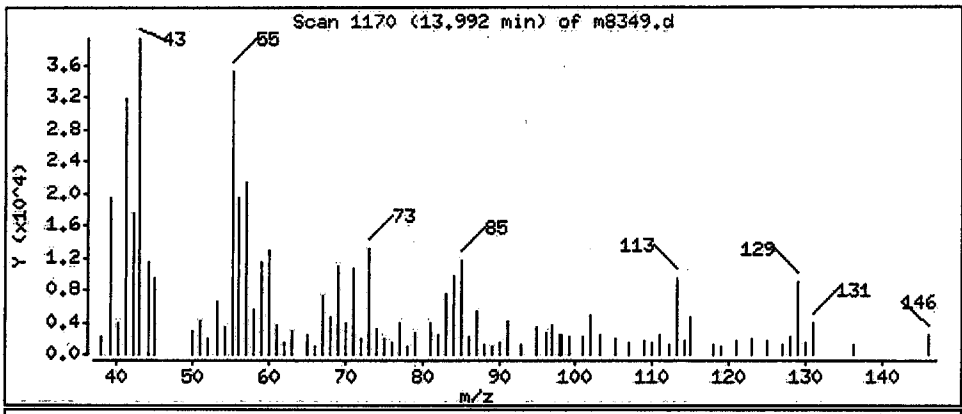
Operator: dce

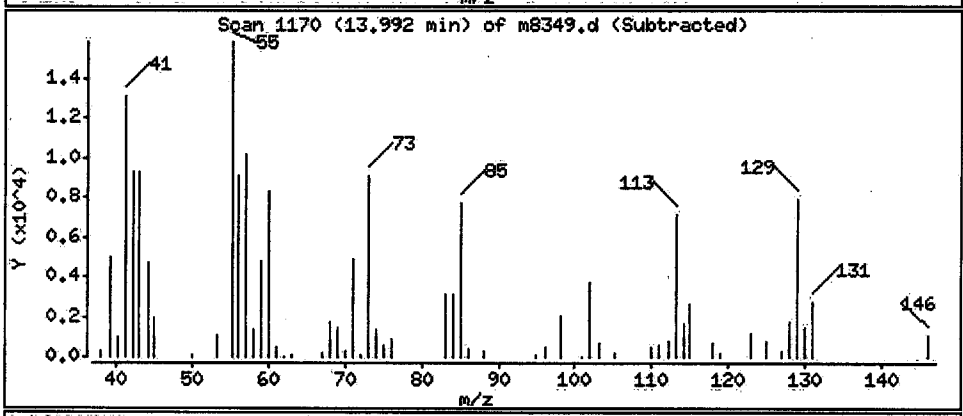
Column phase: ZB-5

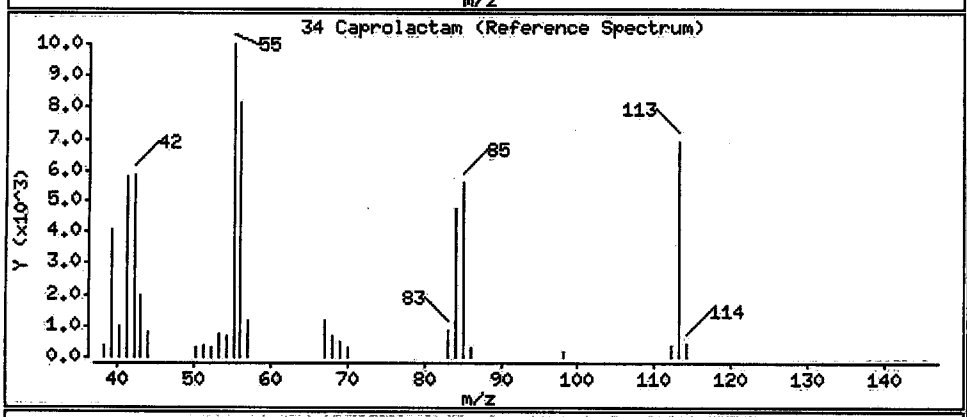
Column diameter: 0.25

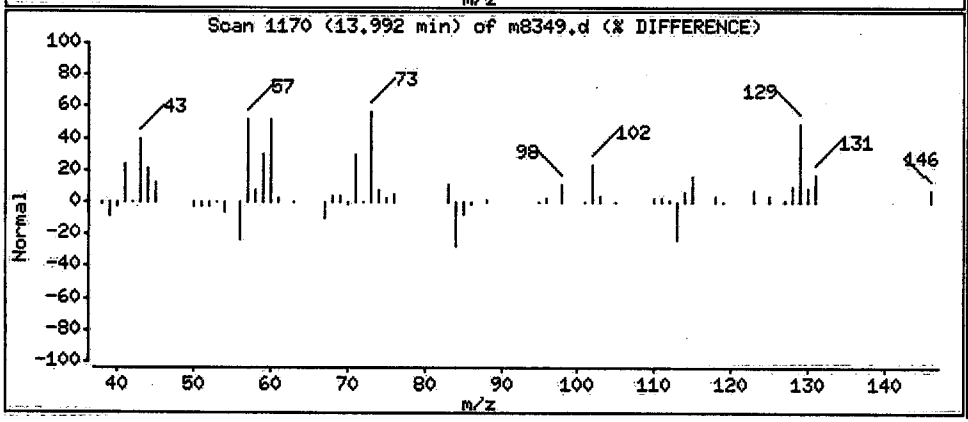
34 Caprolactam

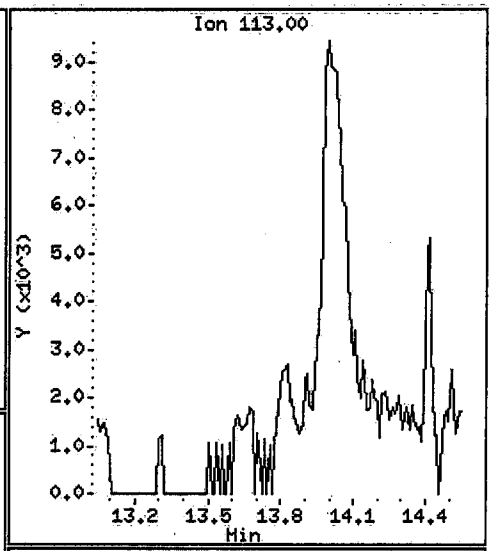
Concentration: 1560 ug/Kg

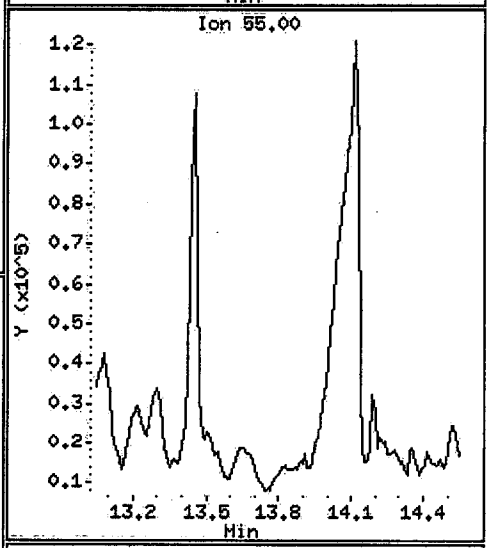


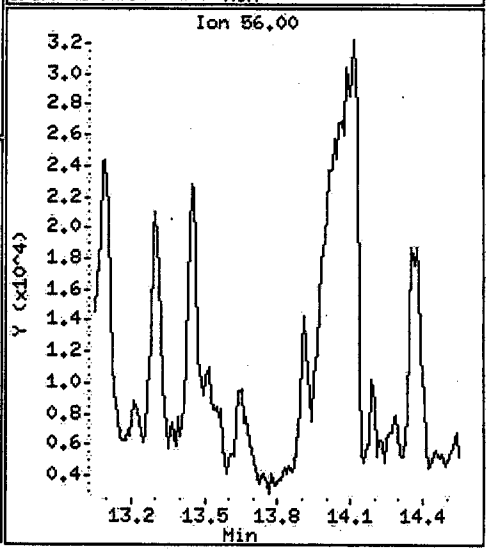












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

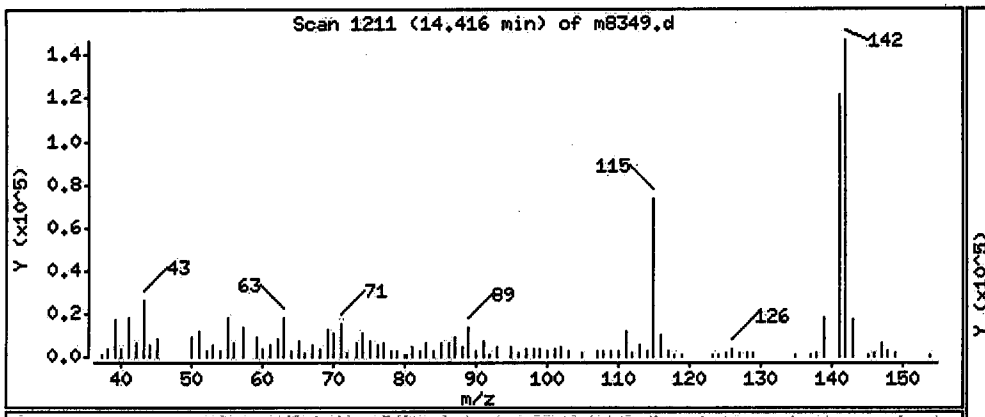
Operator: dce

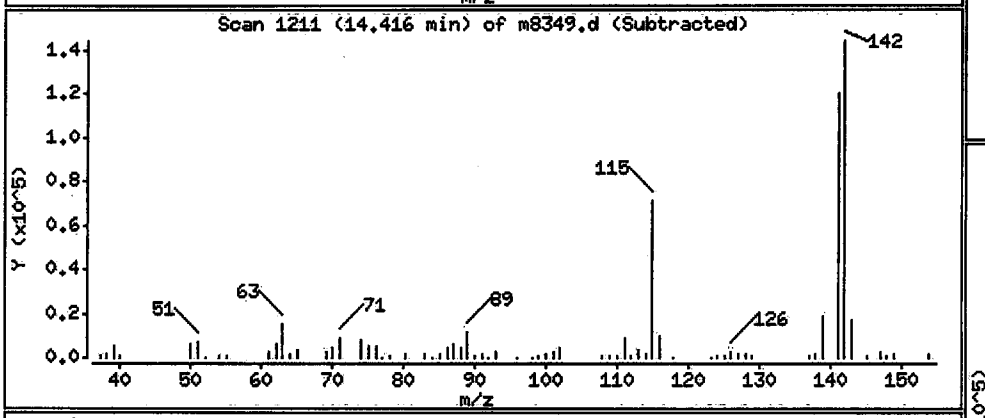
Column phase: ZB-5

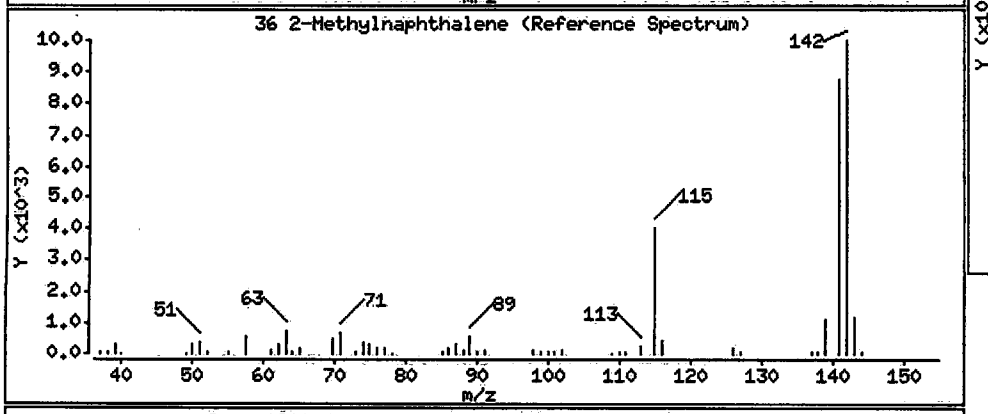
Column diameter: 0.25

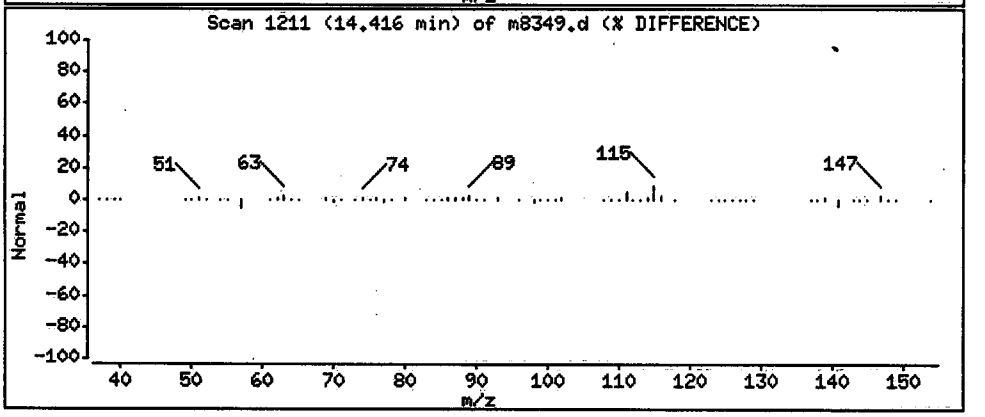
36 2-Methylnaphthalene

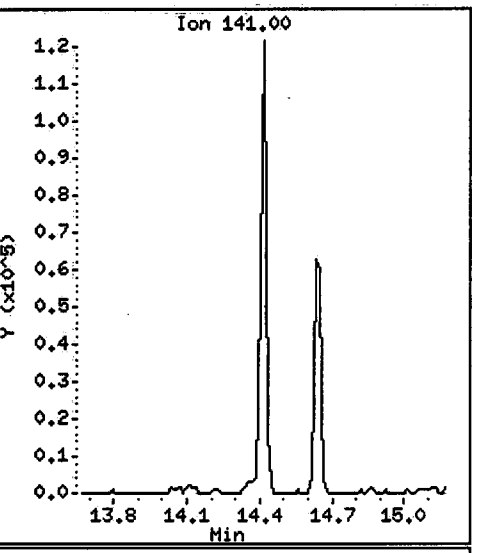
Concentration: 791 ug/Kg

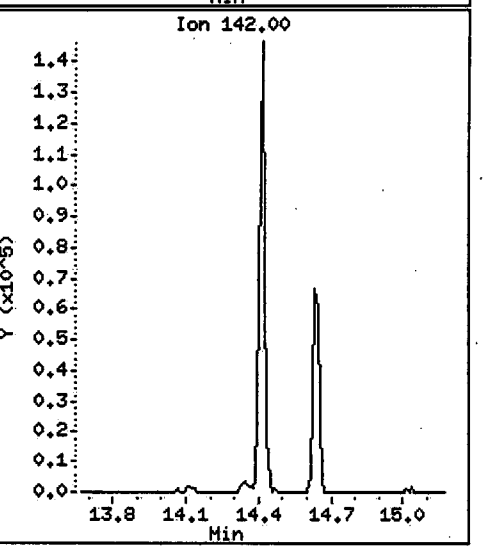












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

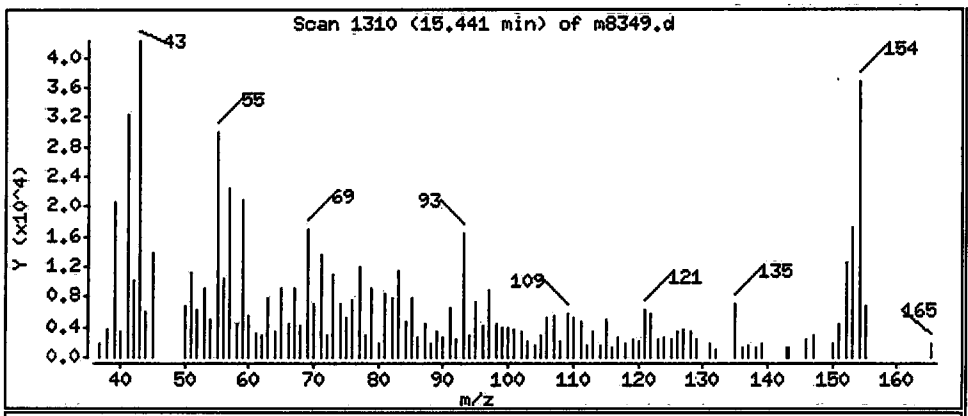
Operator: dce

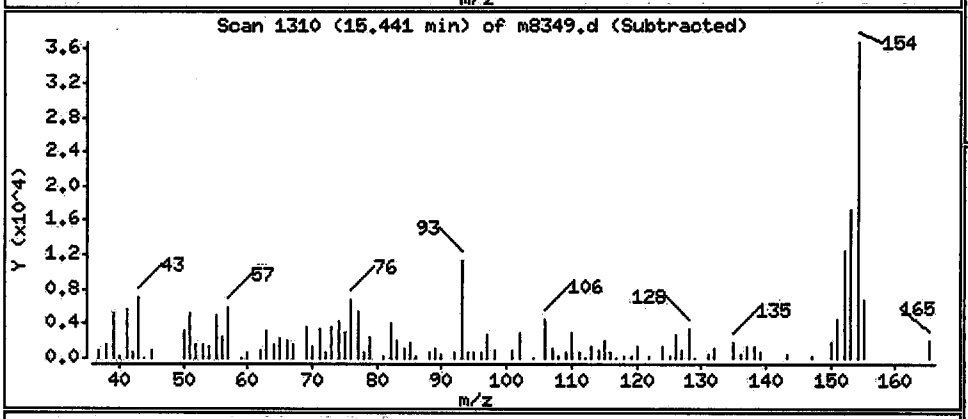
Column phase: ZB-5

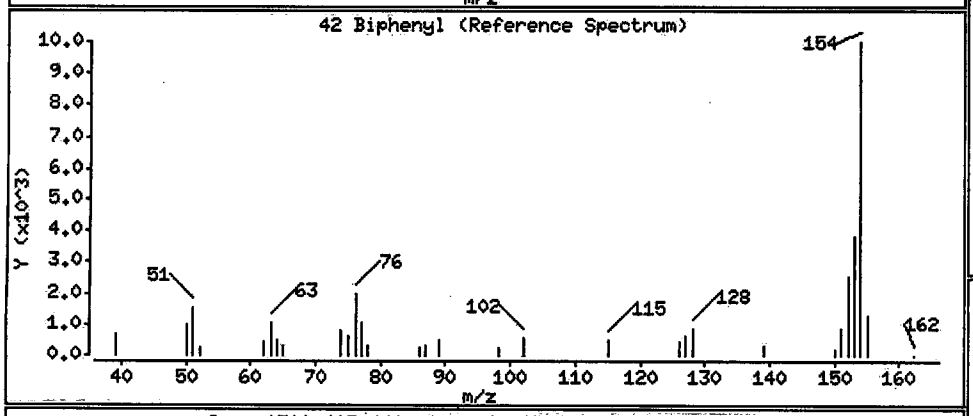
Column diameter: 0.25

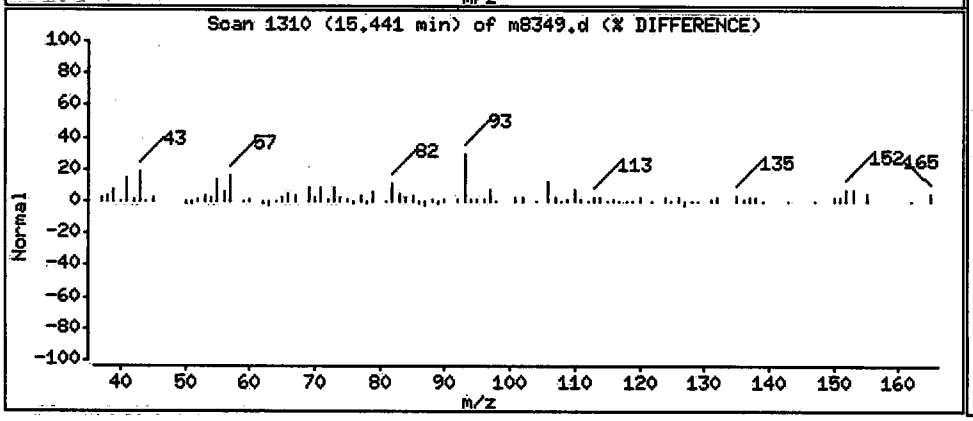
42 Biphenyl

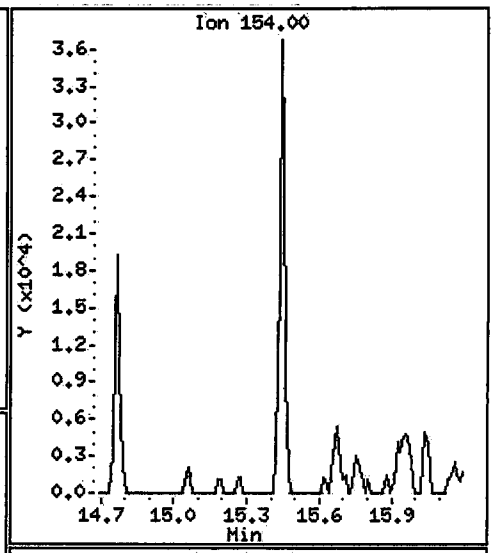
Concentration: 114 ug/Kg

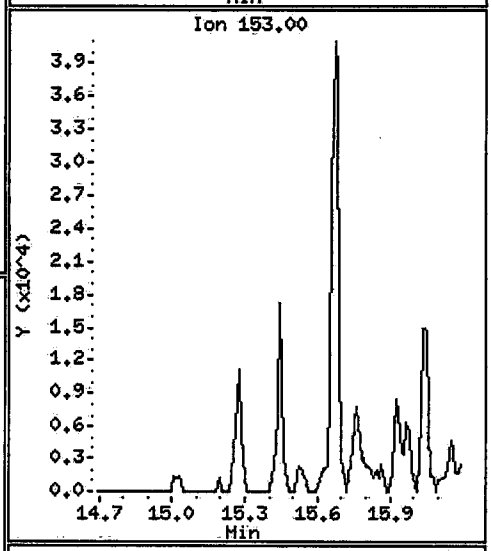


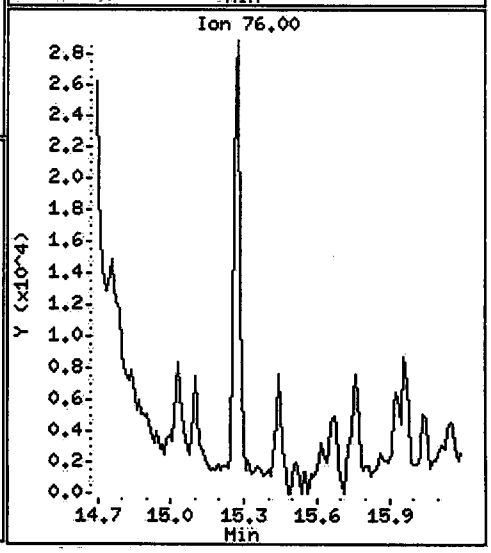












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

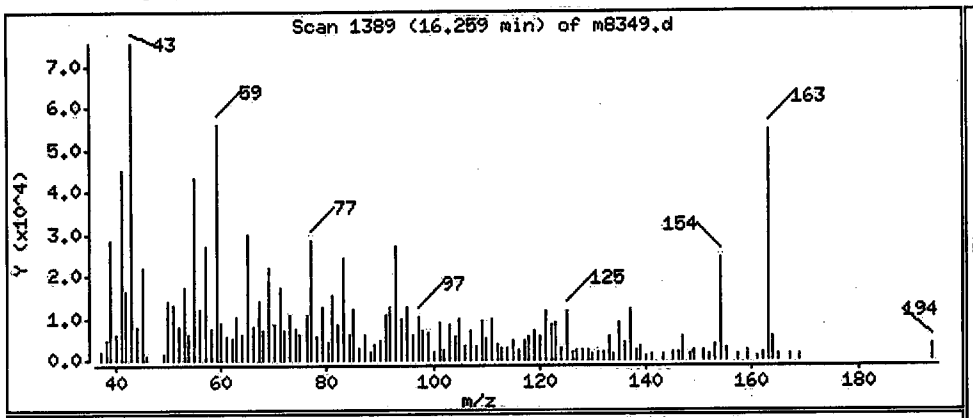
Operator: dce

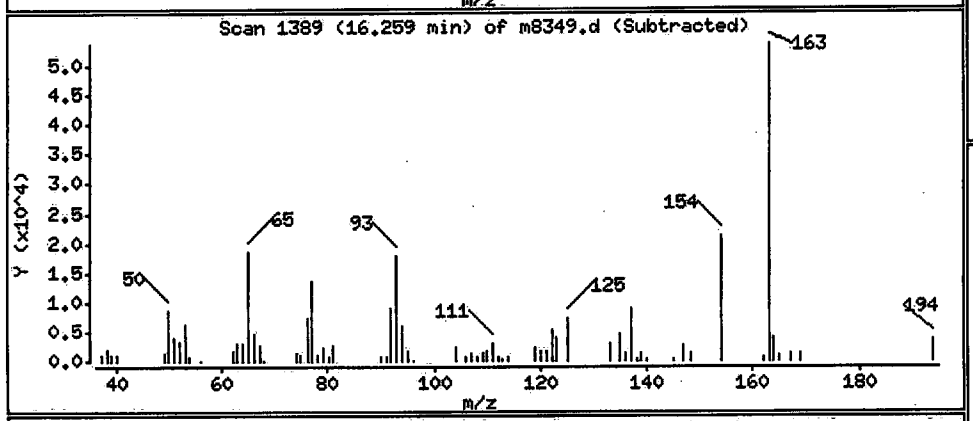
Column phase: ZB-5

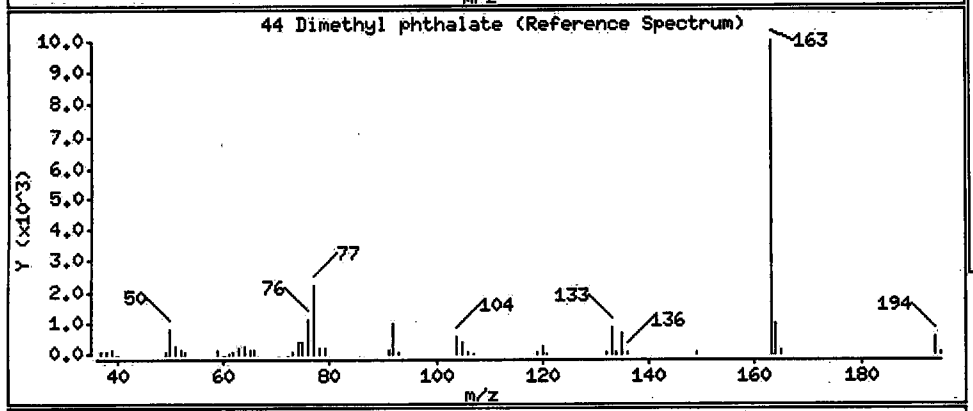
Column diameter: 0.25

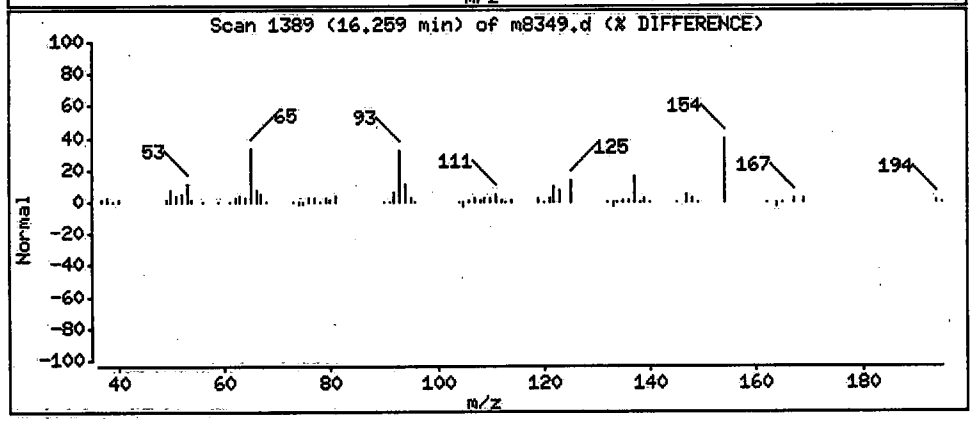
44 Dimethyl phthalate

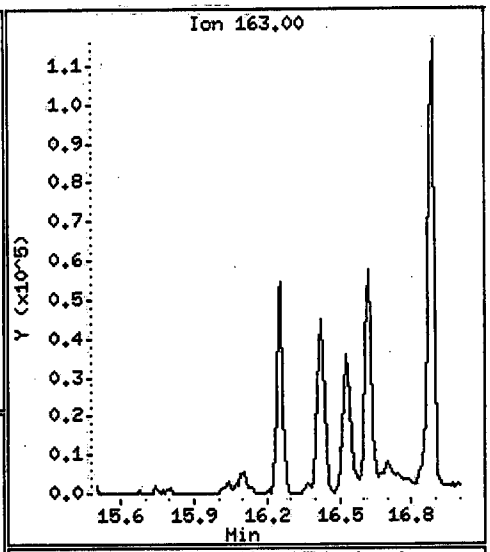
Concentration: 184 ug/Kg

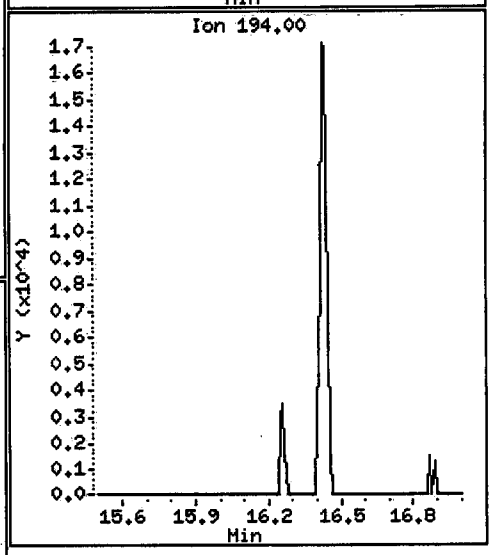












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

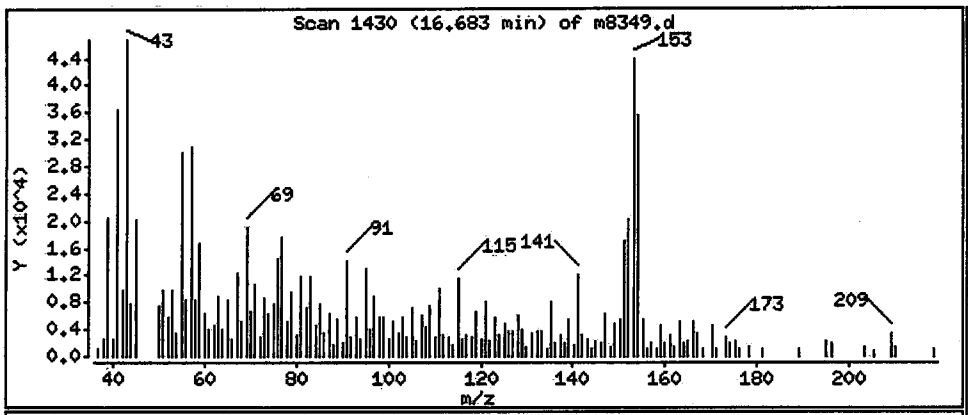
Operator: dce

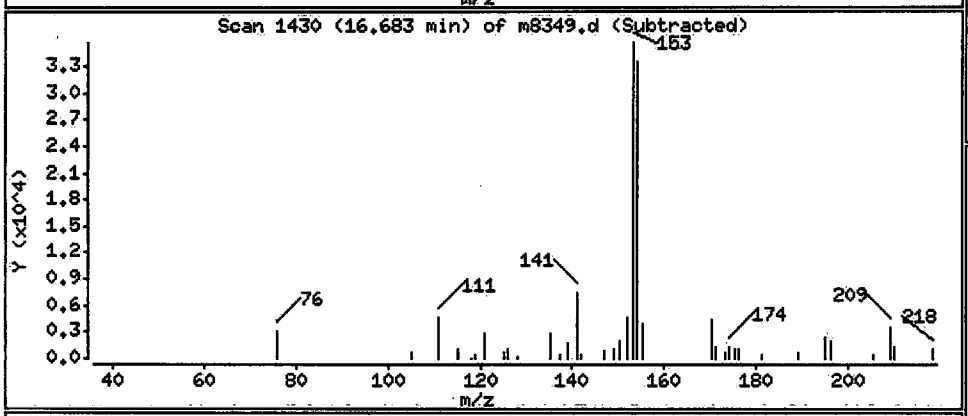
Column phase: ZB-5

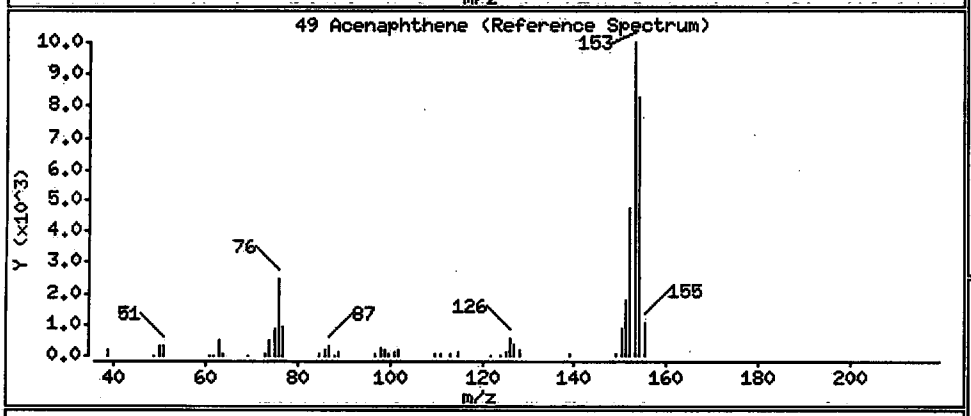
Column diameter: 0.25

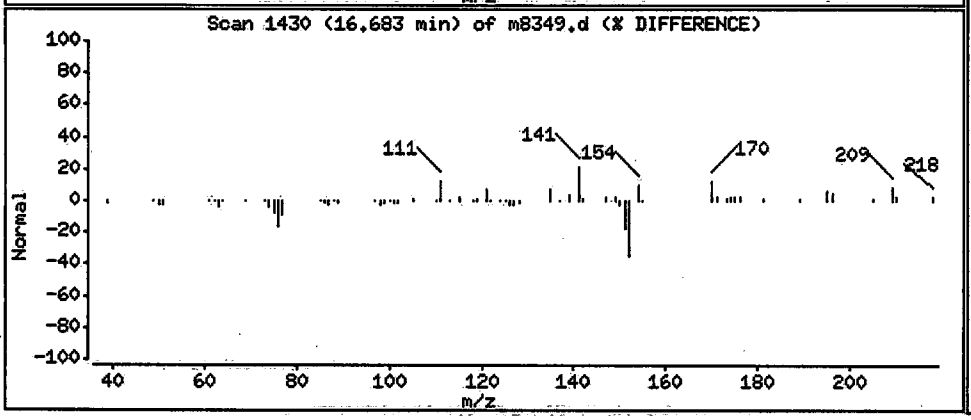
49 Acenaphthene

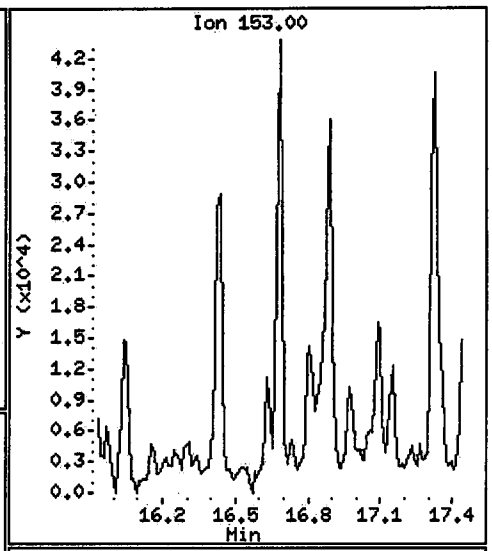
Concentration: 164 ug/Kg

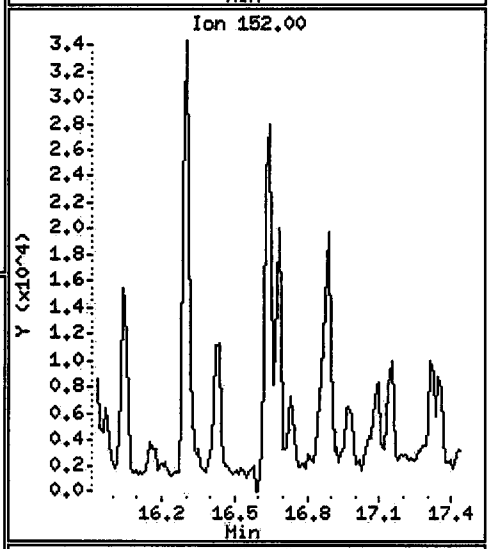


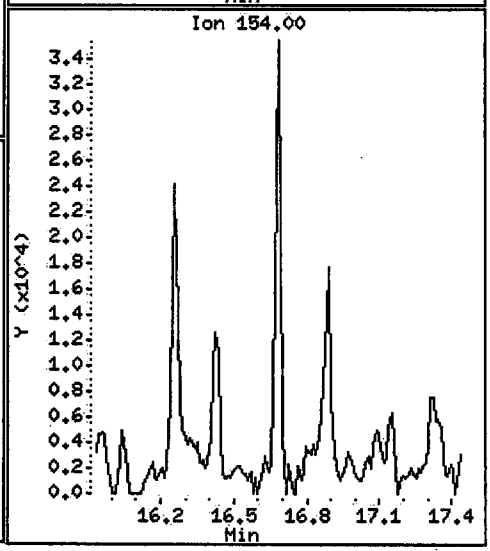












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

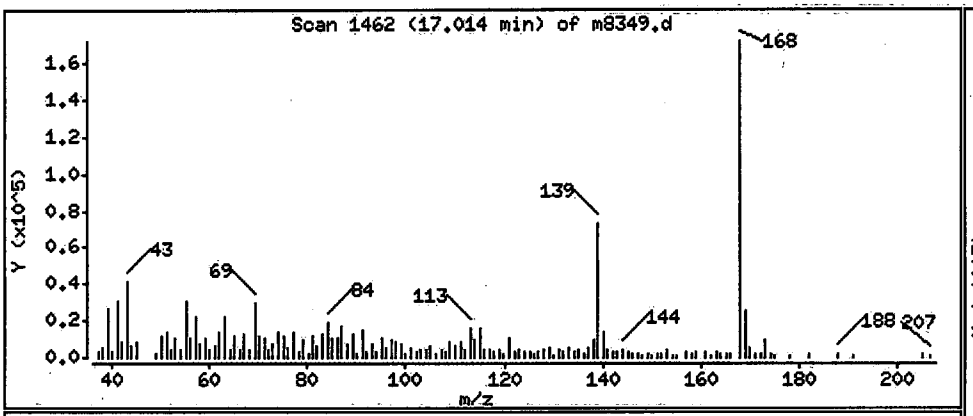
Operator: dce

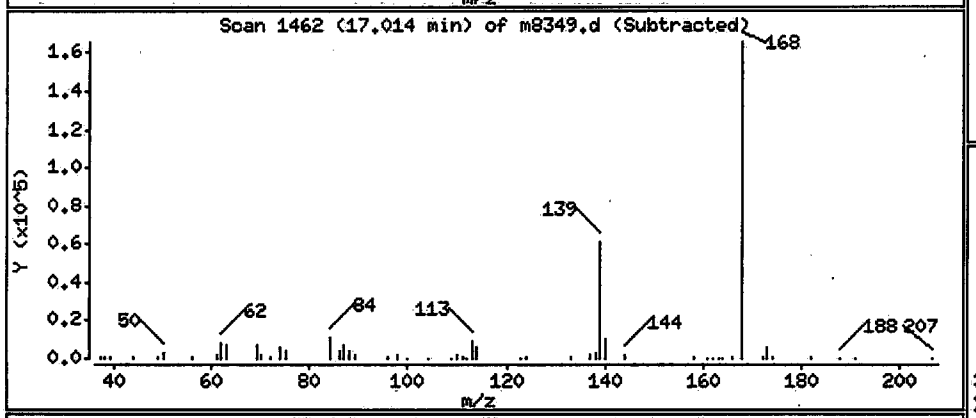
Column phase: ZB-5

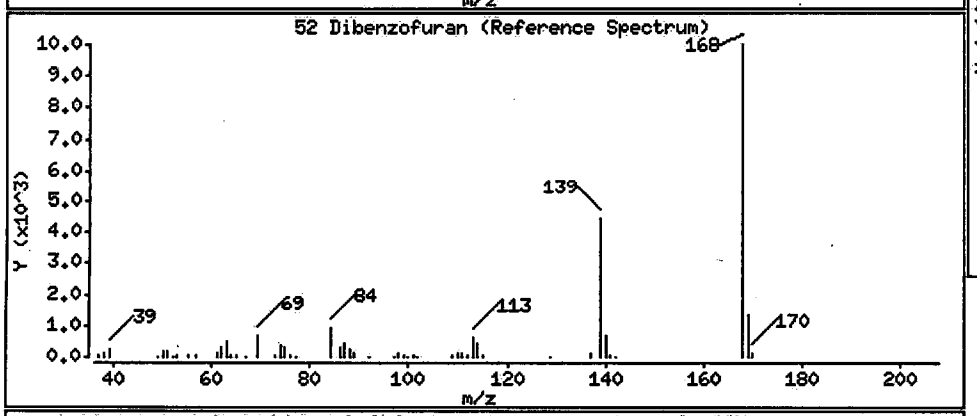
Column diameter: 0.25

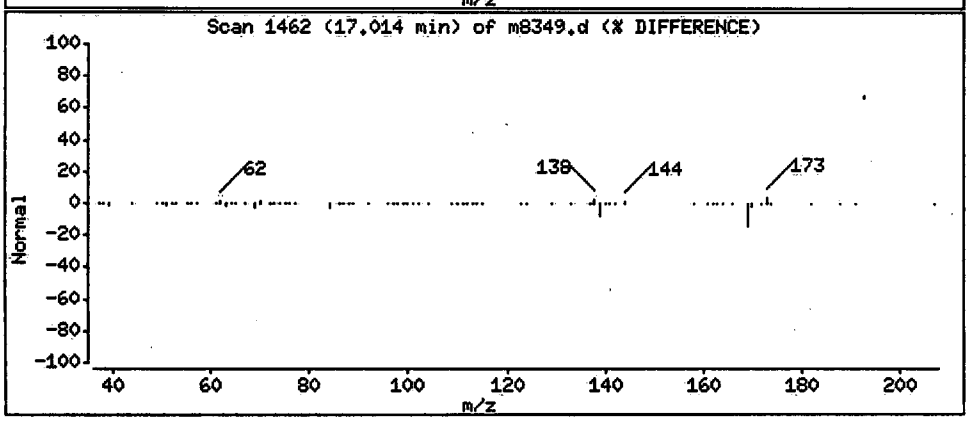
52 Dibenzofuran

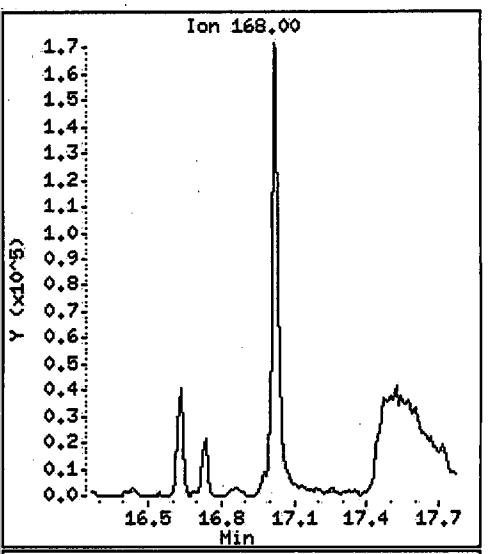
Concentration: 556 ug/Kg

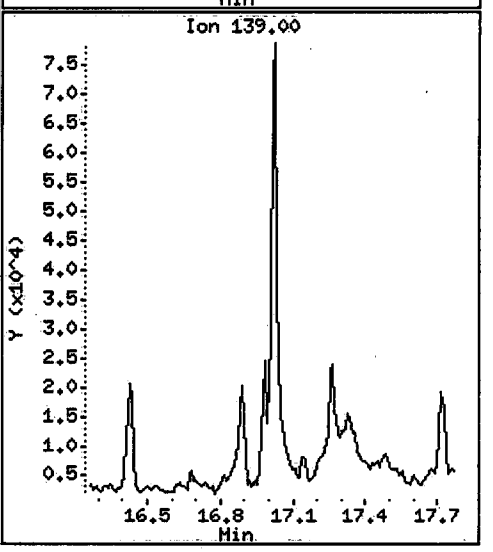












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

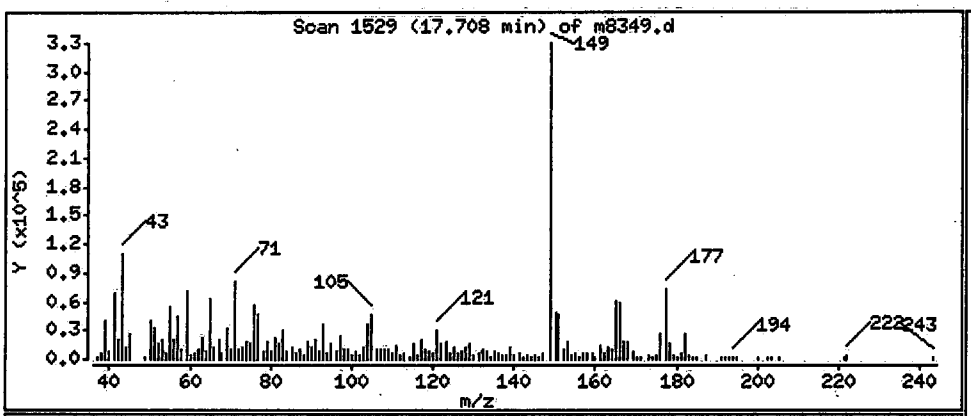
Operator: dce

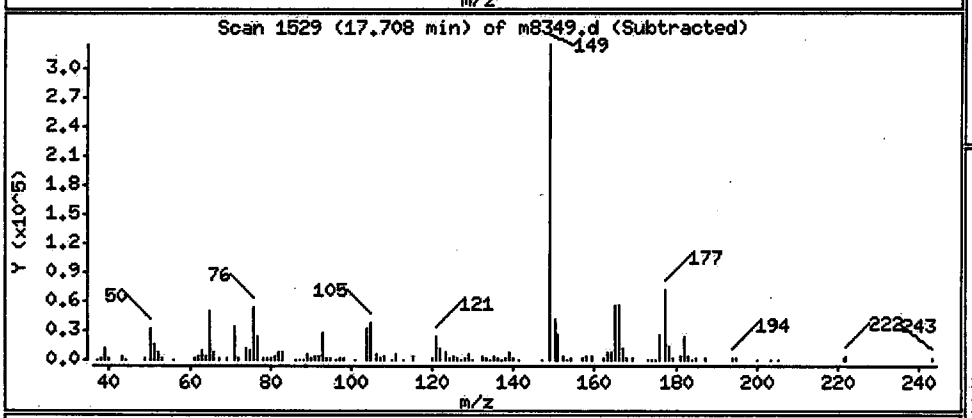
Column phase: ZB-5

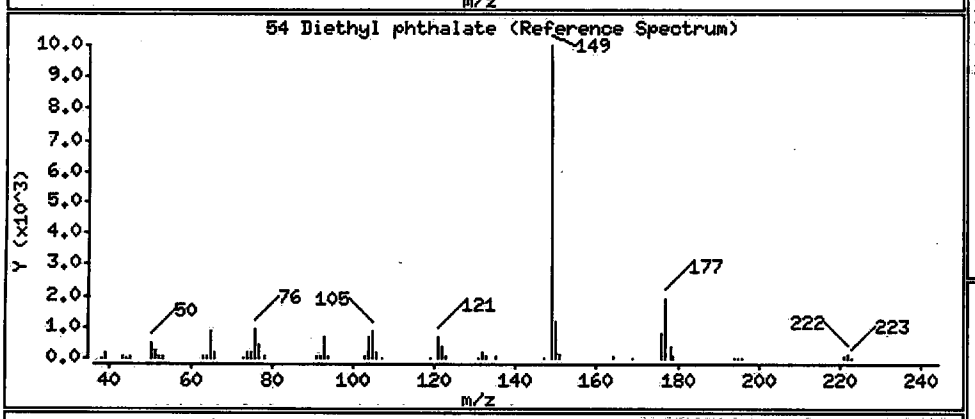
Column diameter: 0.25

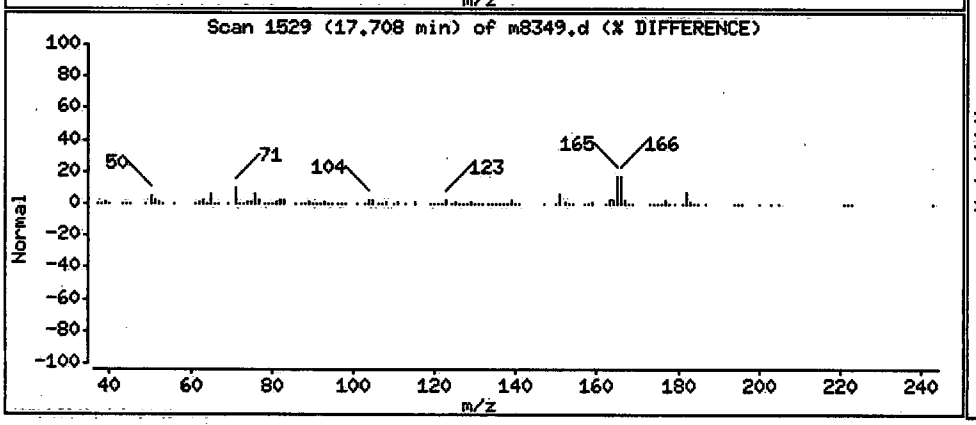
54 Diethyl phthalate

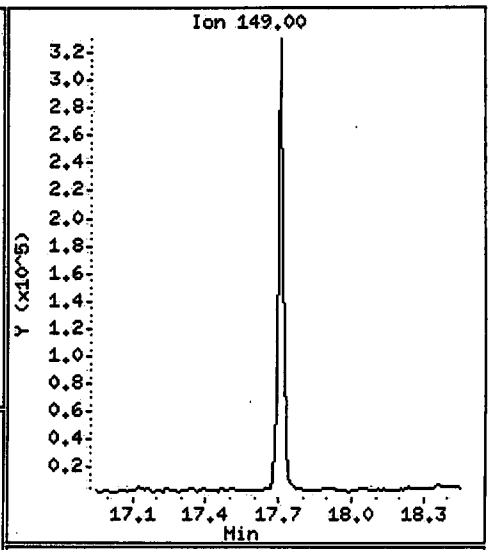
Concentration: 916 ug/Kg

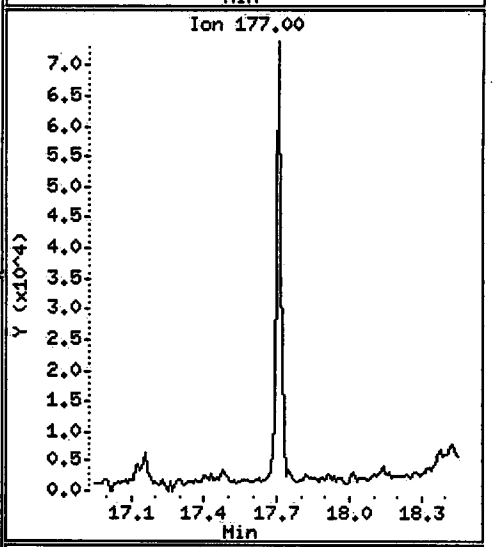


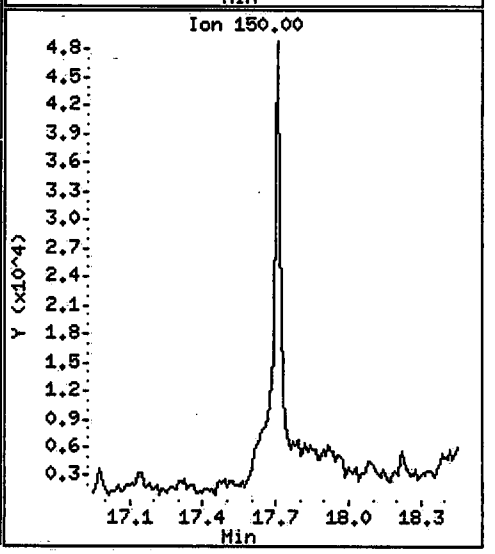












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

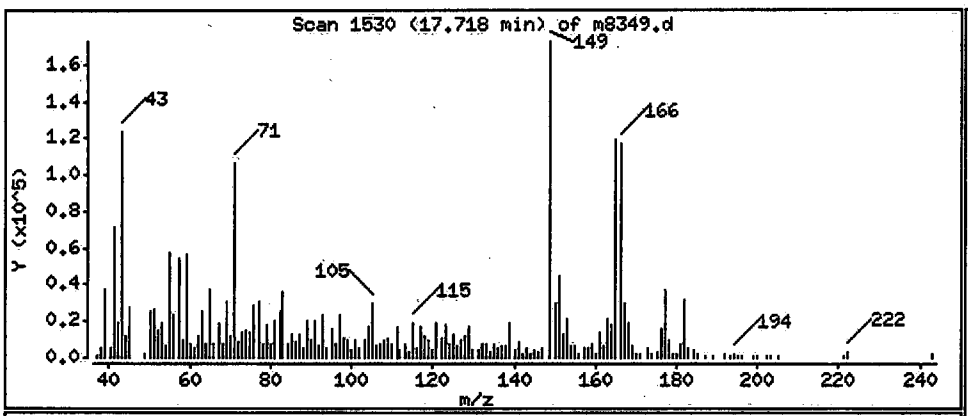
Operator: dce

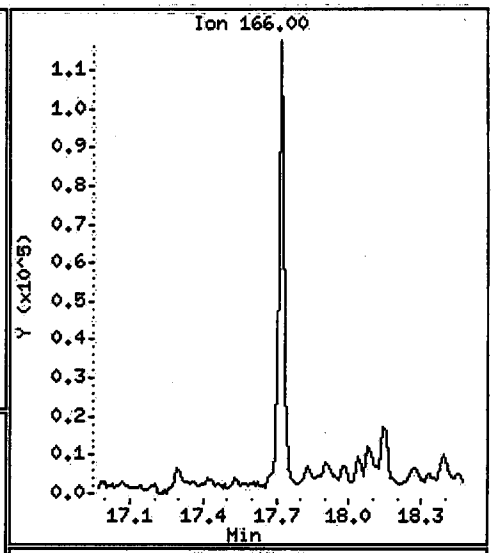
Column phase: ZB-5

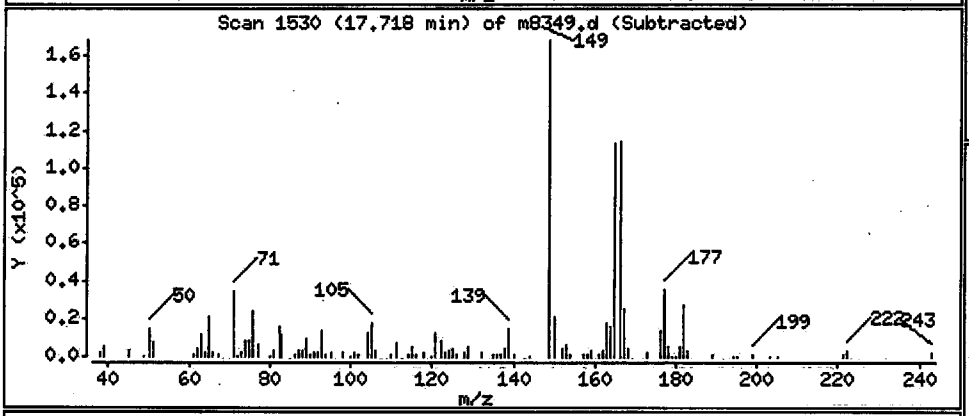
Column diameter: 0.25

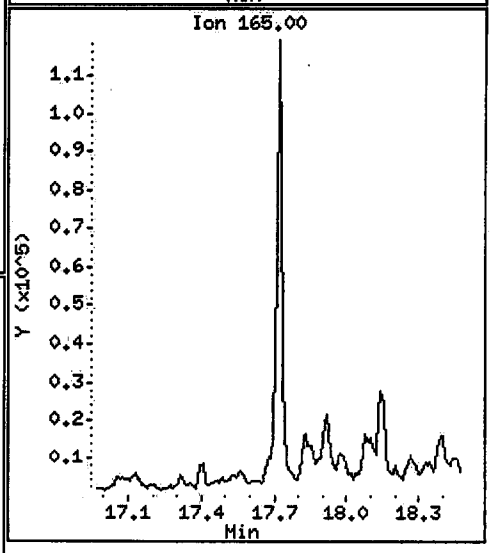
55 Fluorene

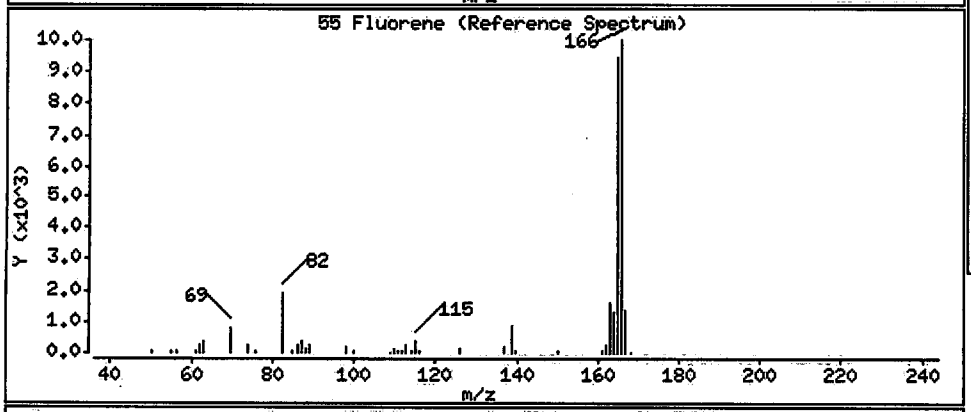
Concentration: 391 ug/Kg

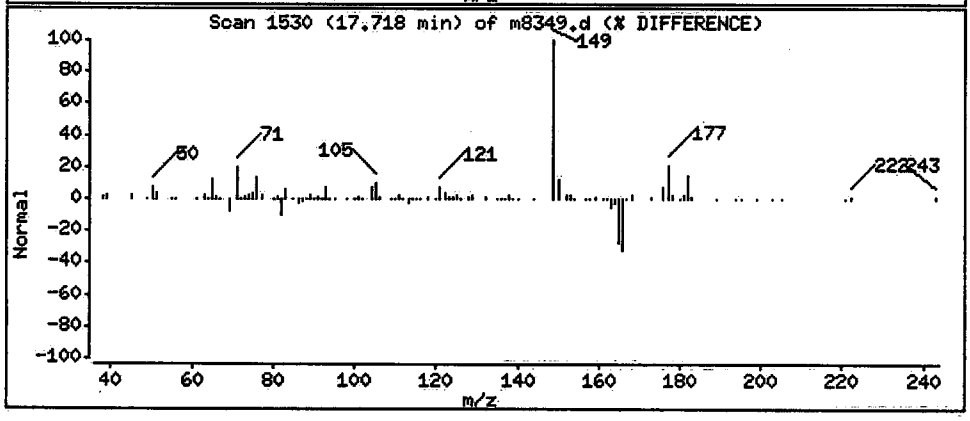












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

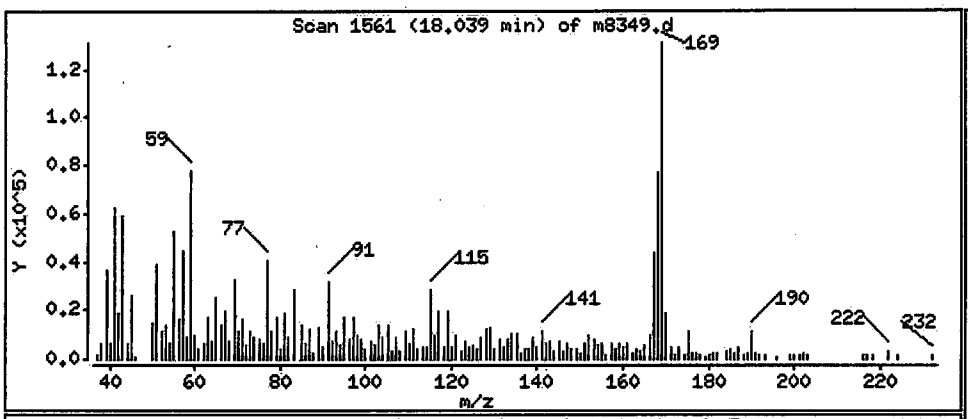
Operator: dce

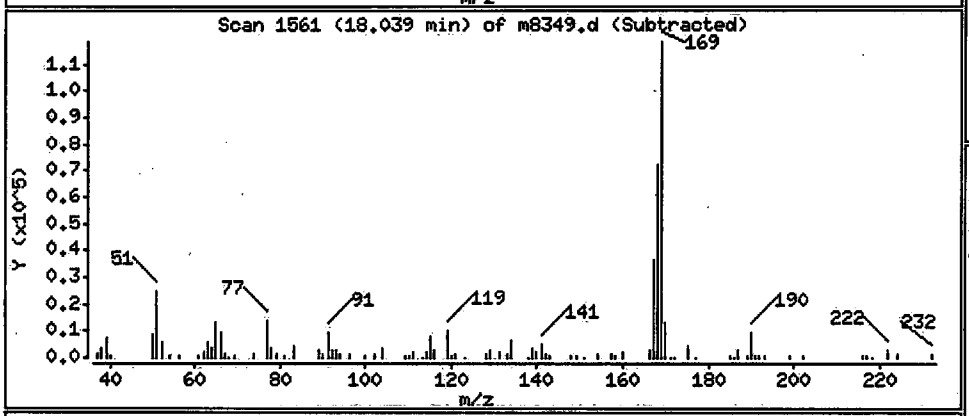
Column phase: ZB-5

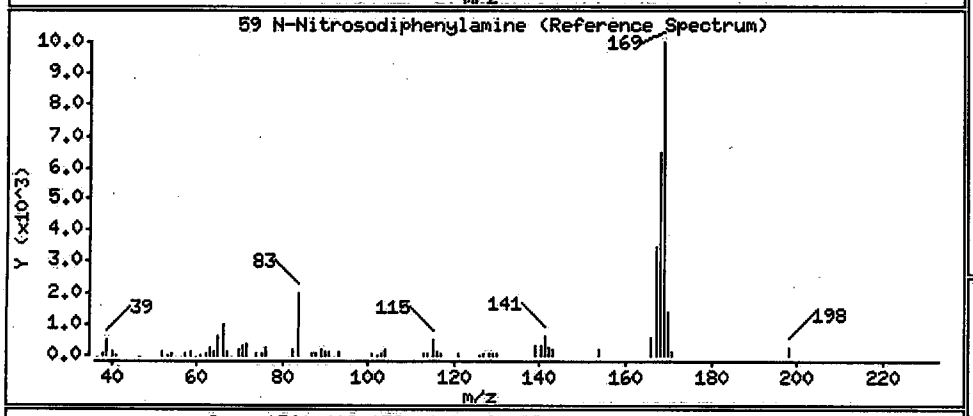
Column diameter: 0.25

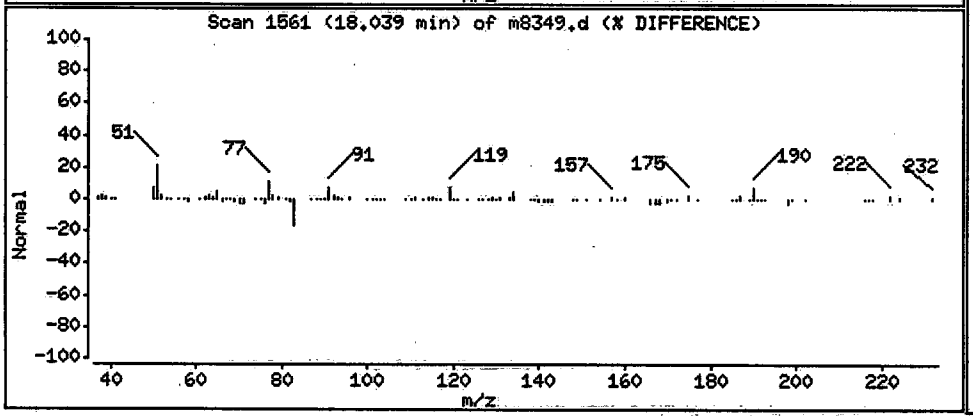
59 N-Nitrosodiphenylamine

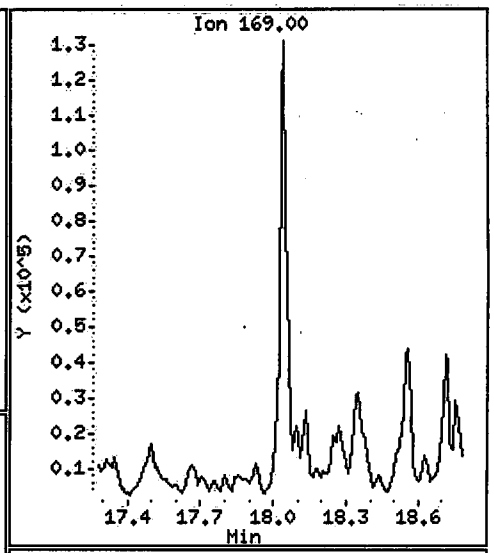
Concentration: 368 ug/Kg

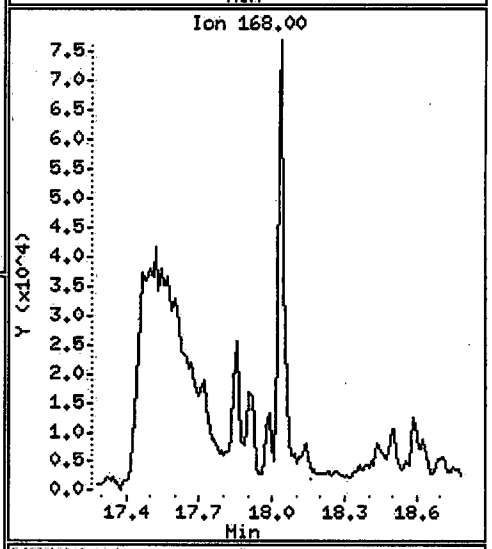


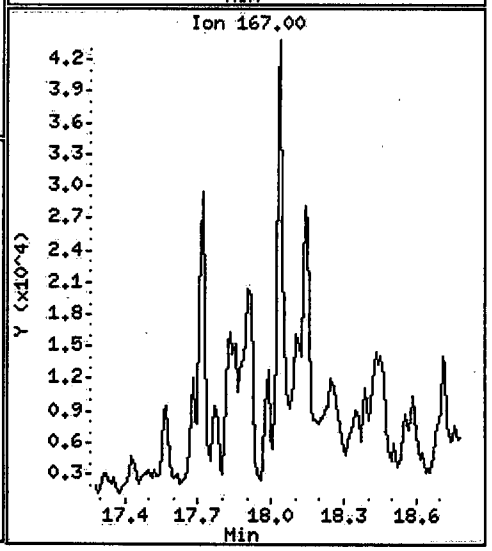












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

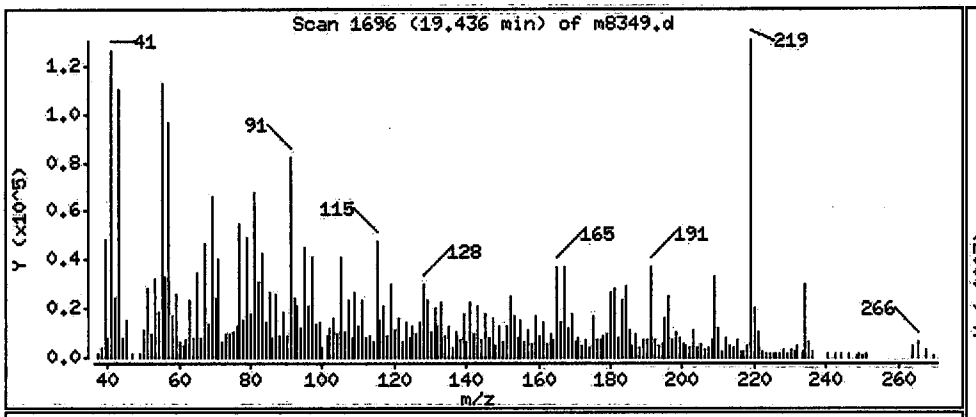
Operator: dce

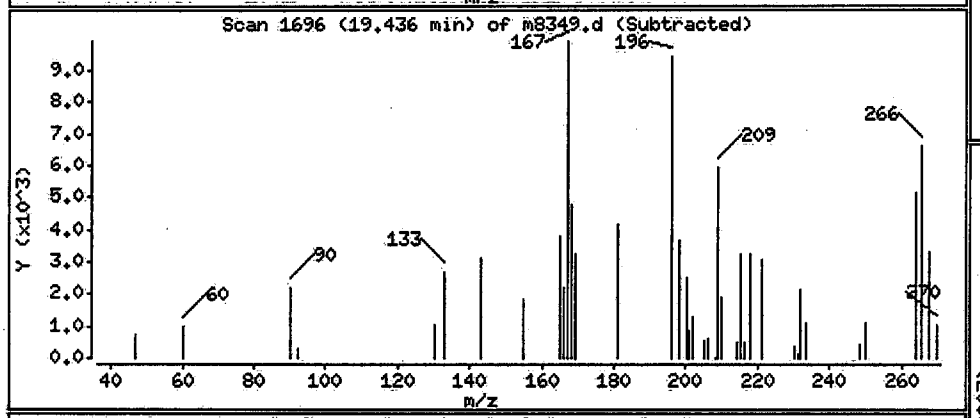
Column phase: ZB-5

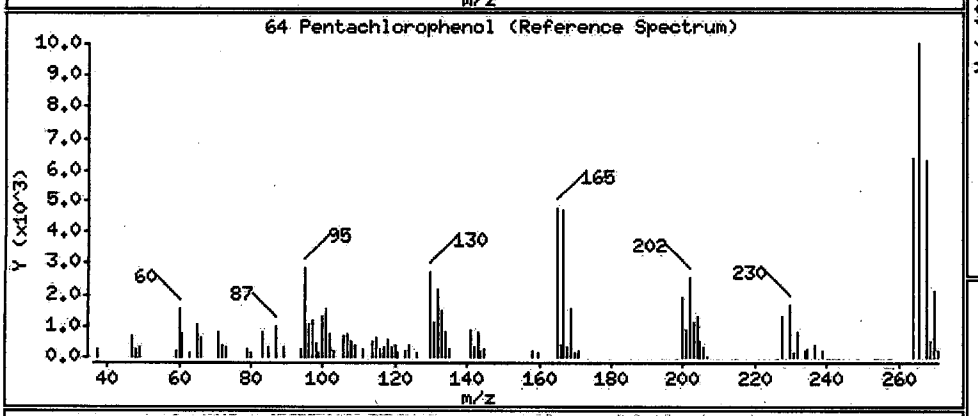
Column diameter: 0.25

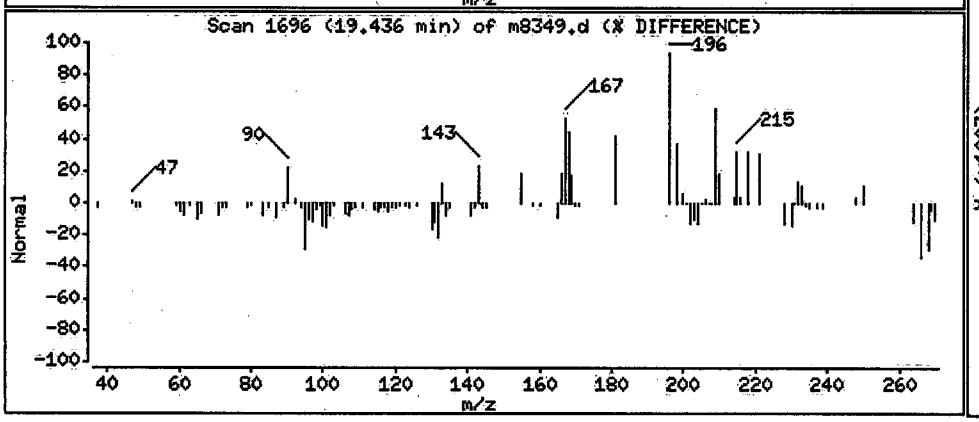
64 Pentachlorophenol

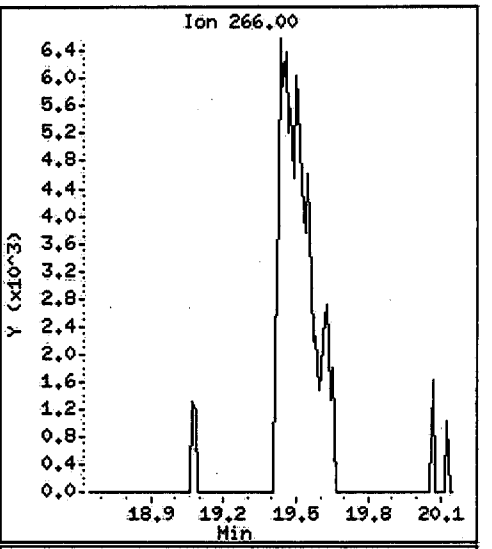
Concentration: 448 ug/Kg

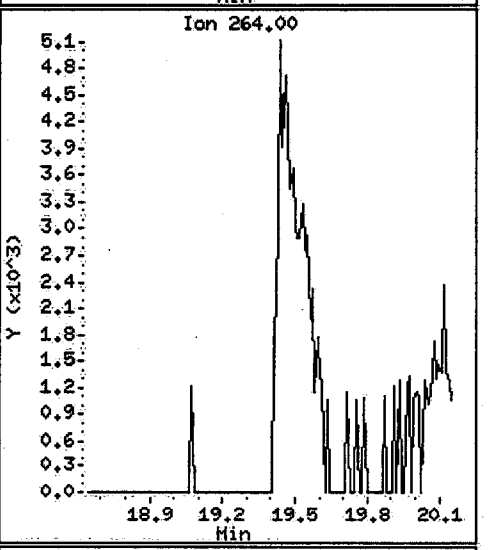


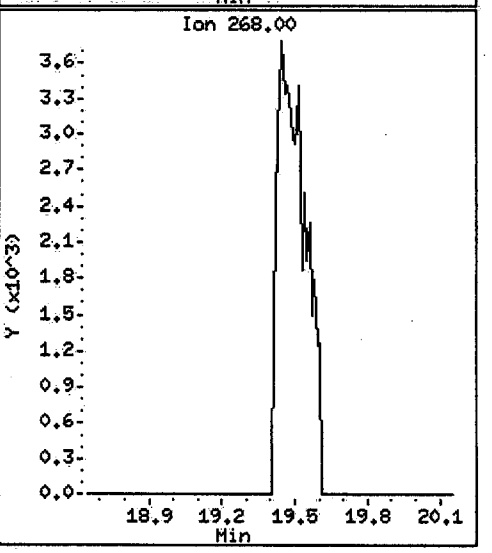












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

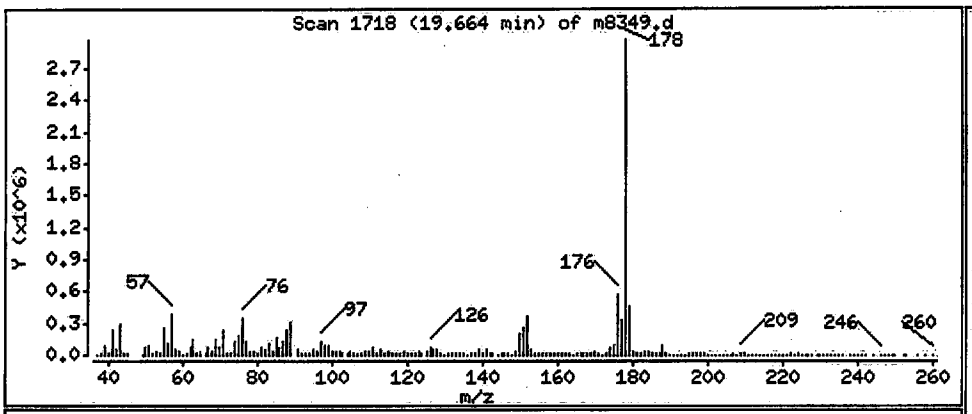
Operator: dce

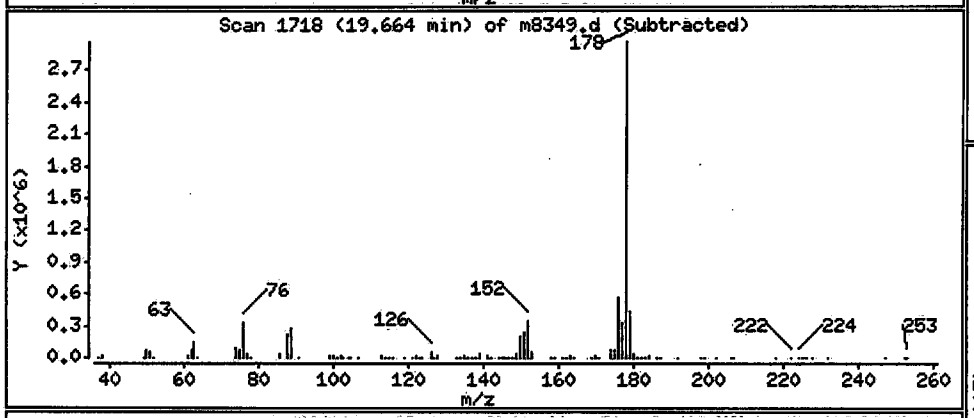
Column phase: ZB-5

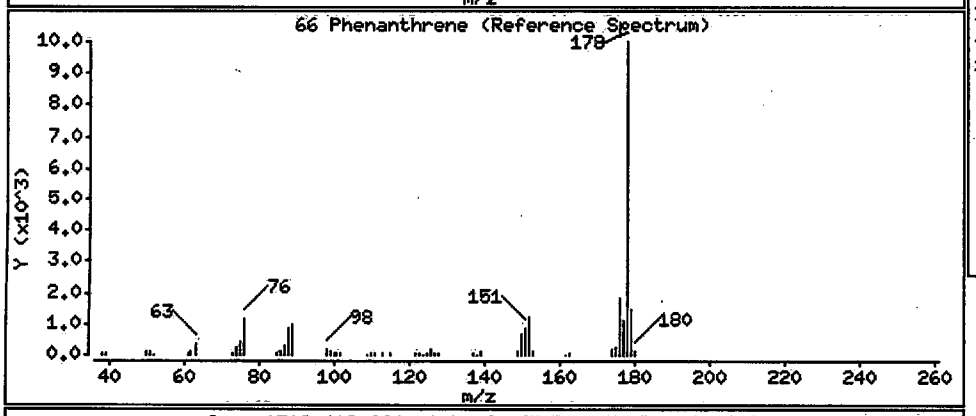
Column diameter: 0.25

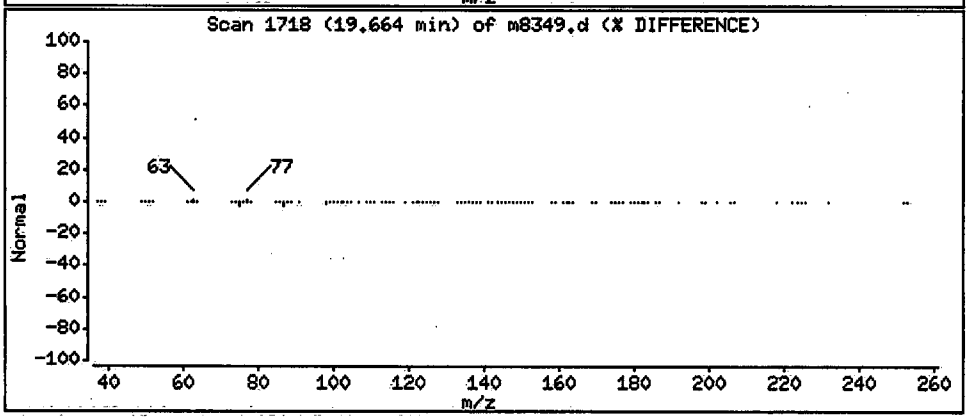
66 Phenanthrene

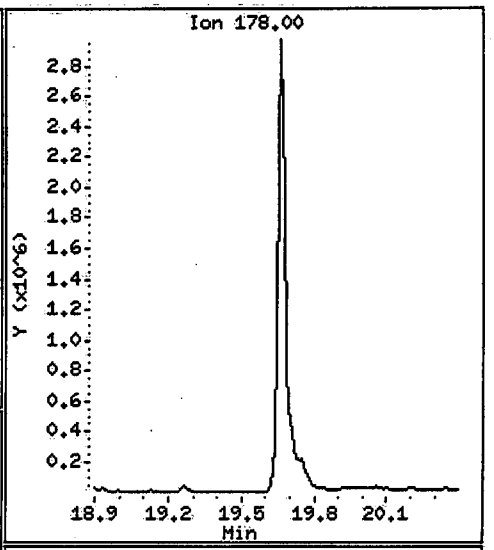
Concentration: 4780 ug/Kg

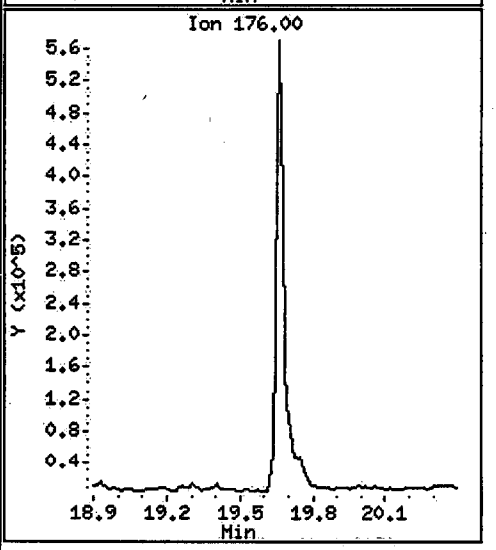












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

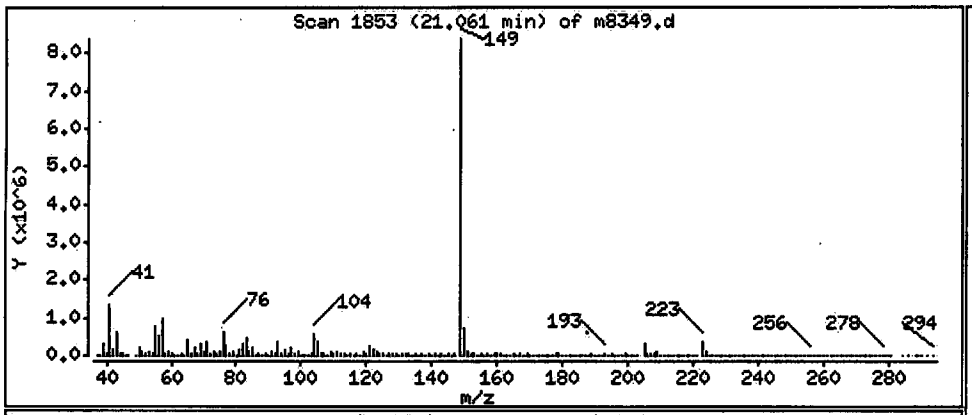
Operator: dce

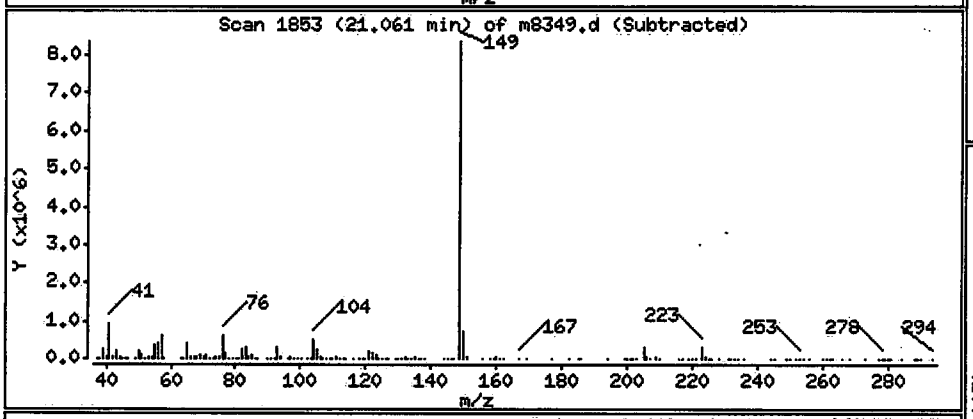
Column phase: ZB-5

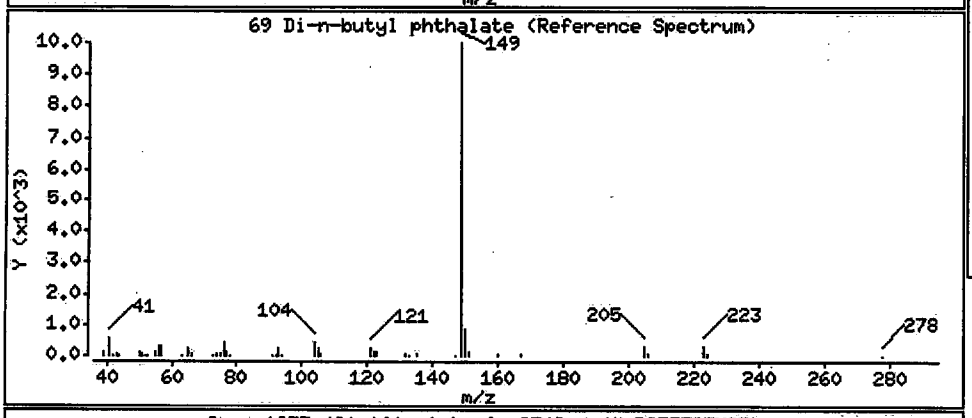
Column diameter: 0.25

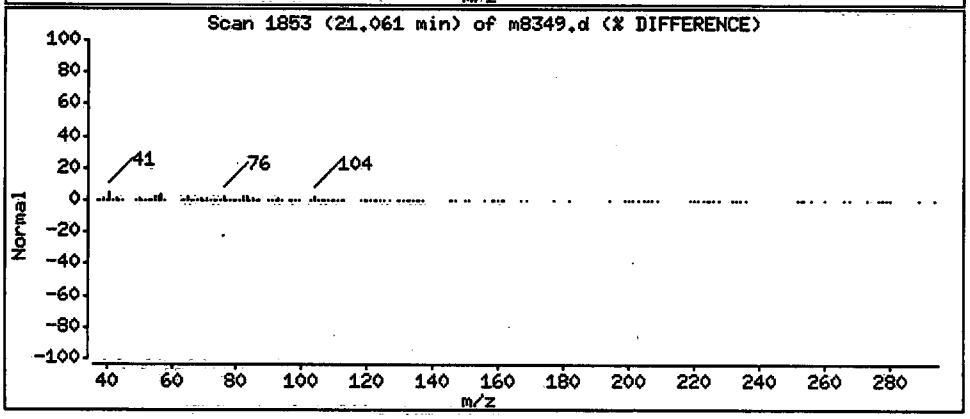
69 Di-n-butyl phthalate

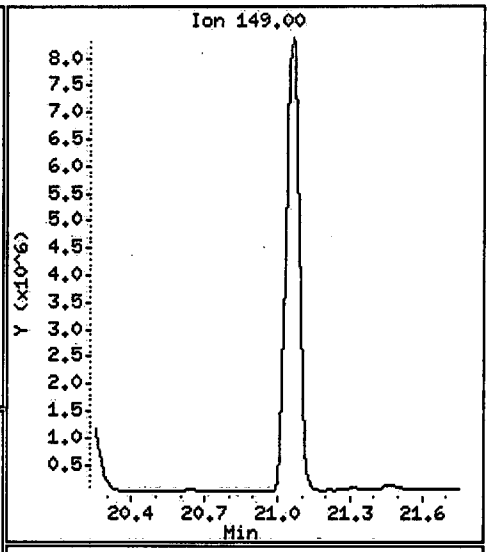
Concentration: 16100 ug/Kg

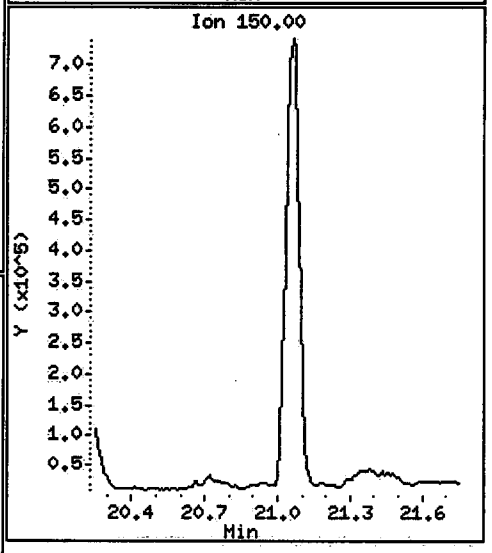












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

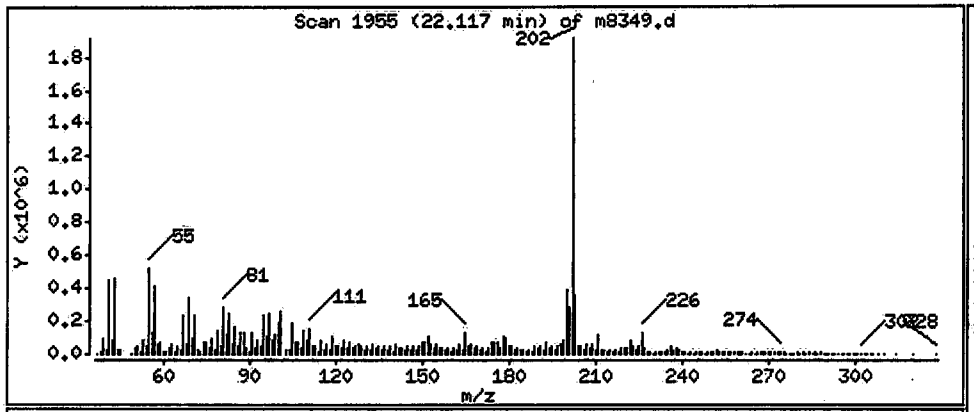
Operator: dce

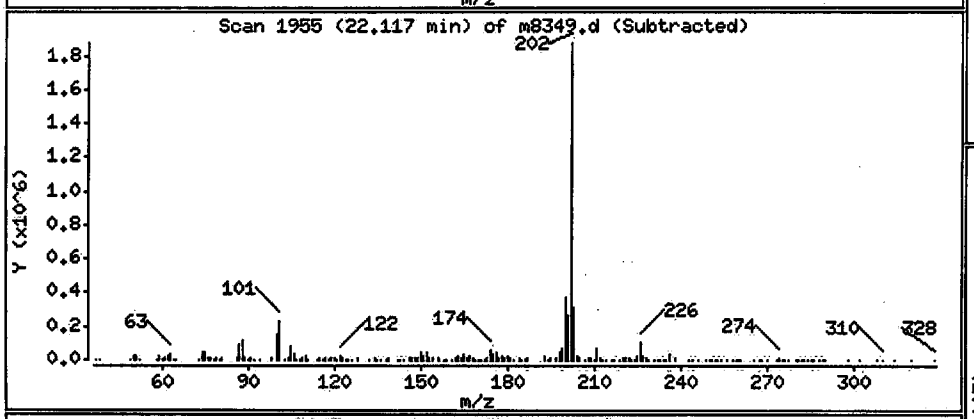
Column phase: ZB-5

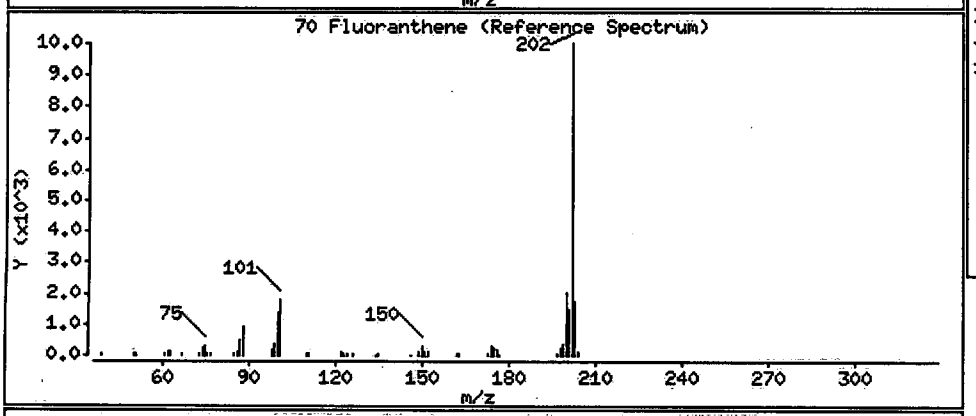
Column diameter: 0.25

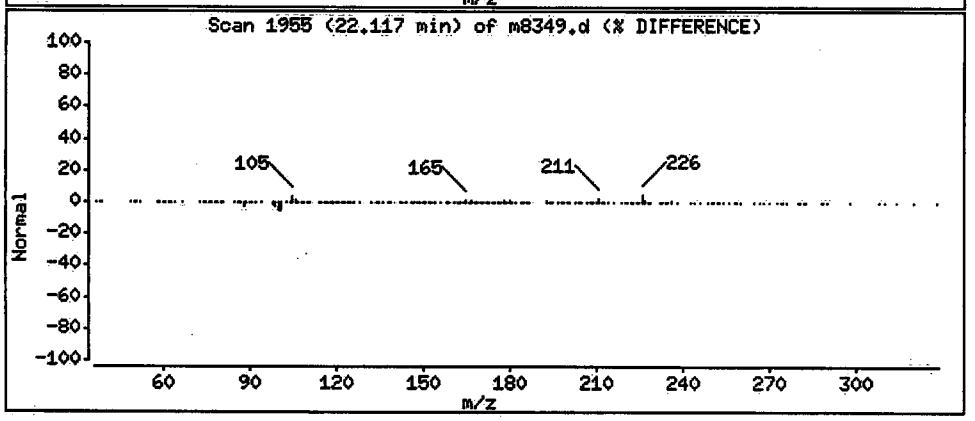
70 Fluoranthene

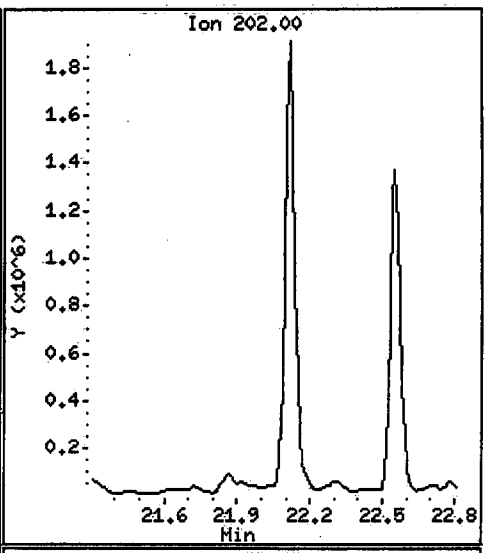
Concentration: 2760 ug/Kg

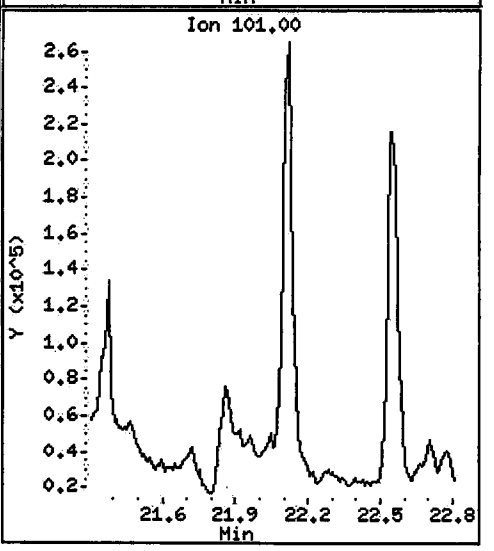












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

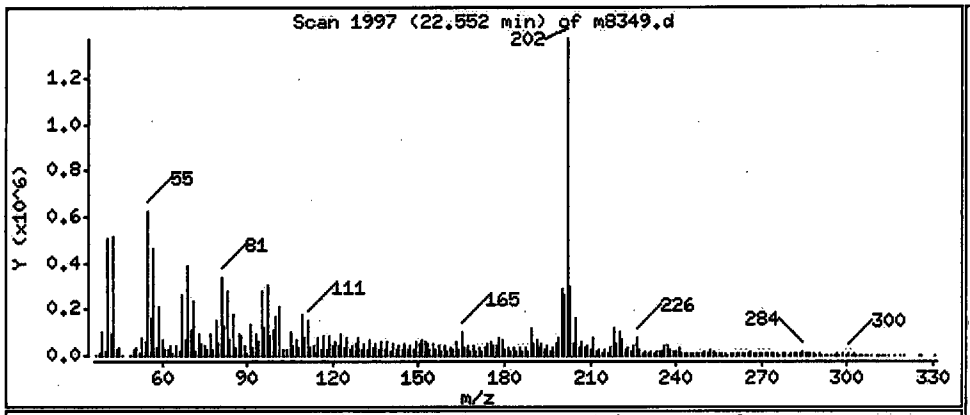
Operator: dce

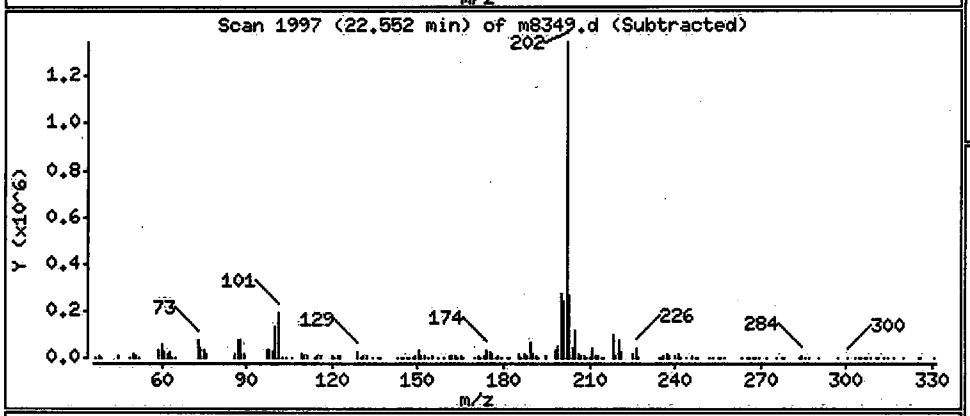
Column phase: ZB-5

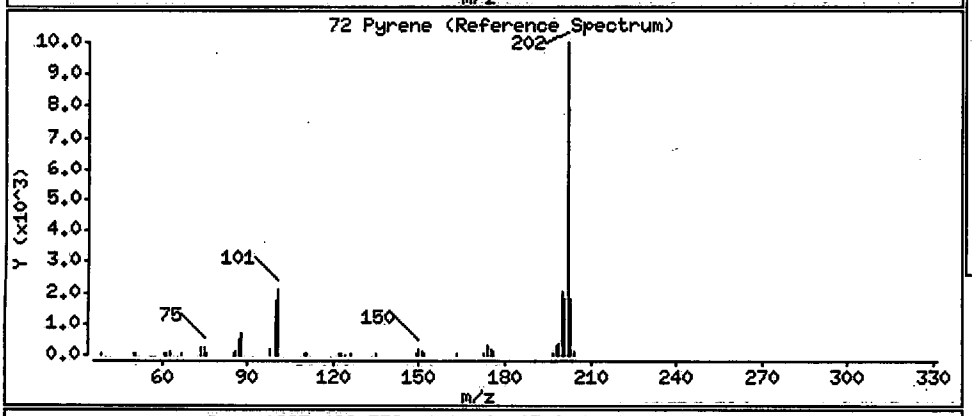
Column diameter: 0.25

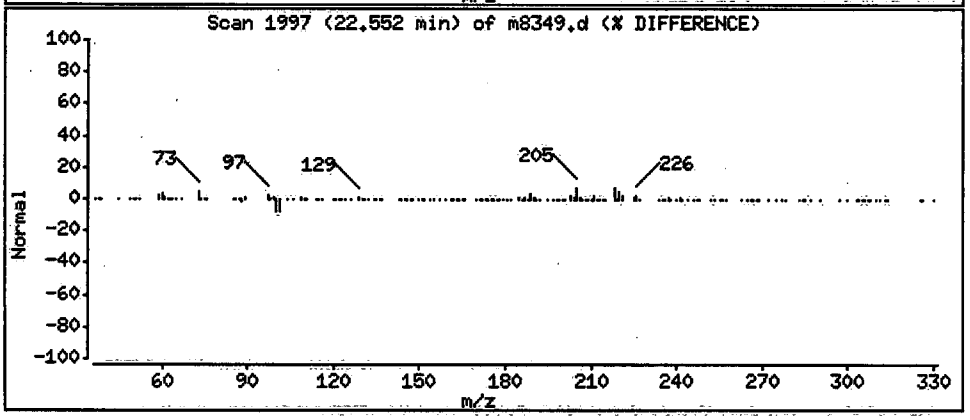
72 Pyrene

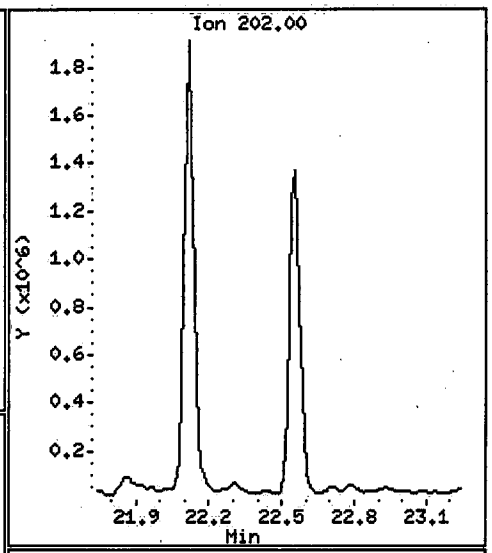
Concentration: 2350 ug/Kg

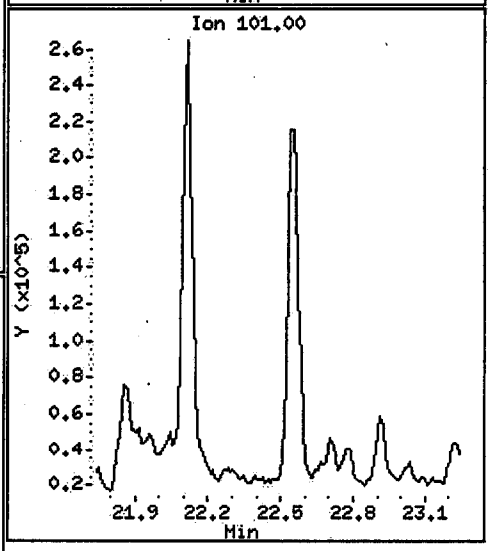












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

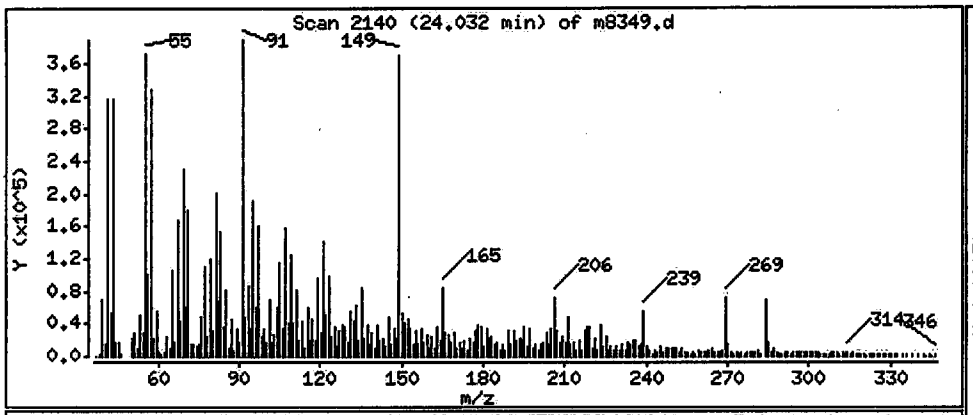
Operator: dce

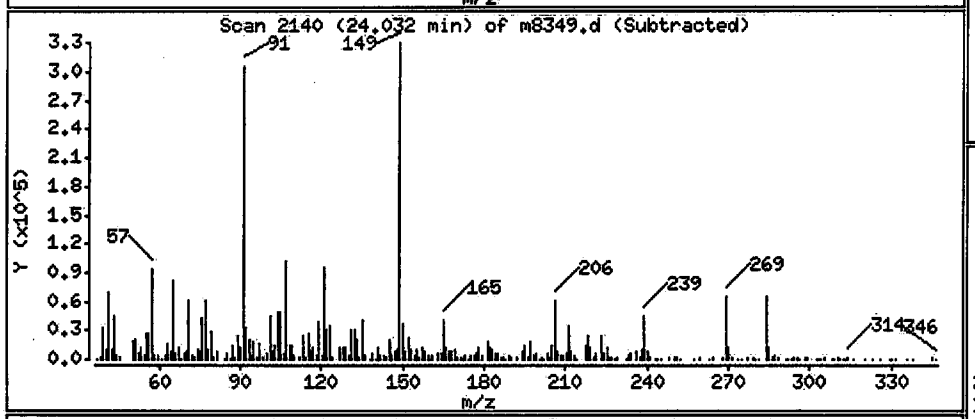
Column phase: ZB-5

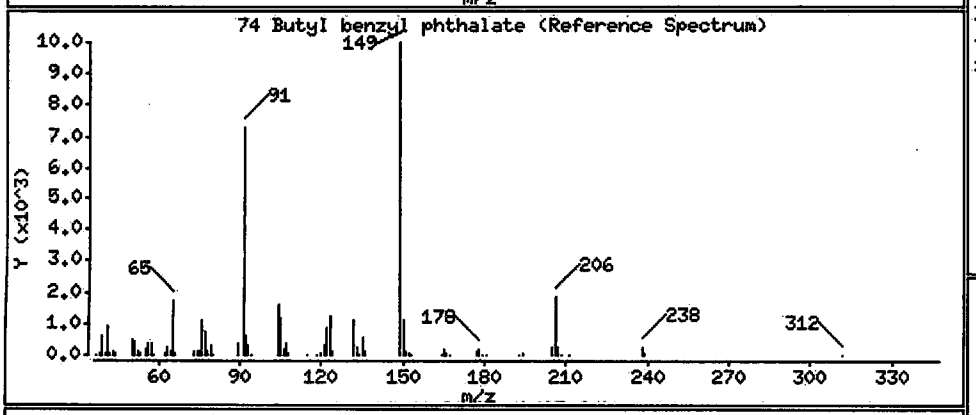
Column diameter: 0.25

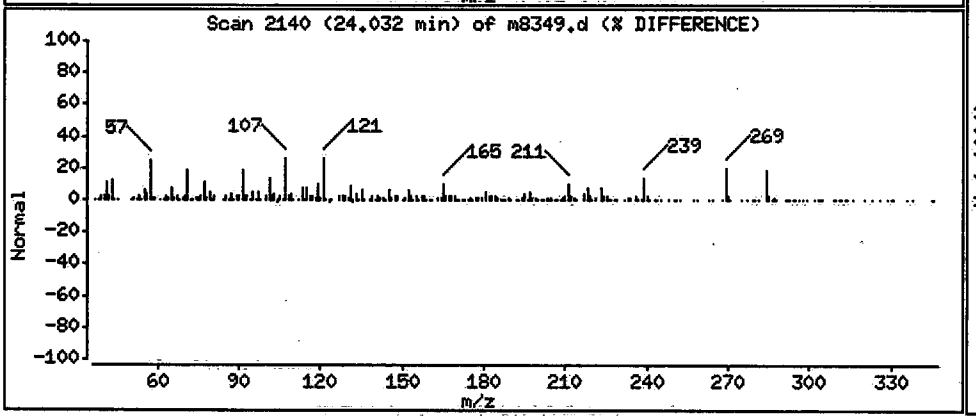
74 Butyl benzyl phthalate

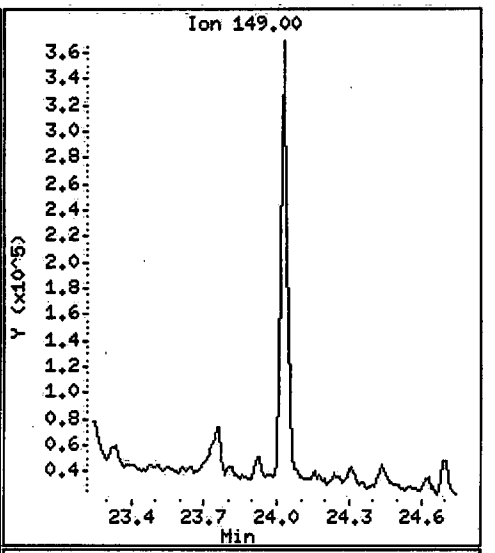
Concentration: 718 ug/Kg

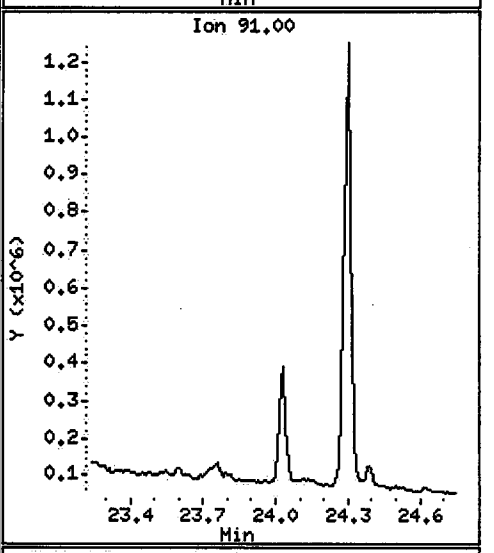


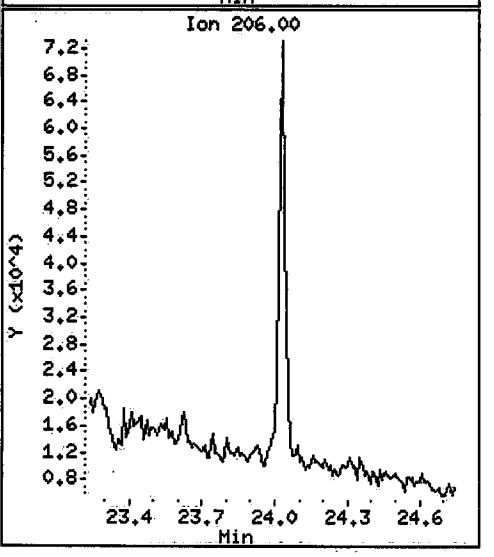












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

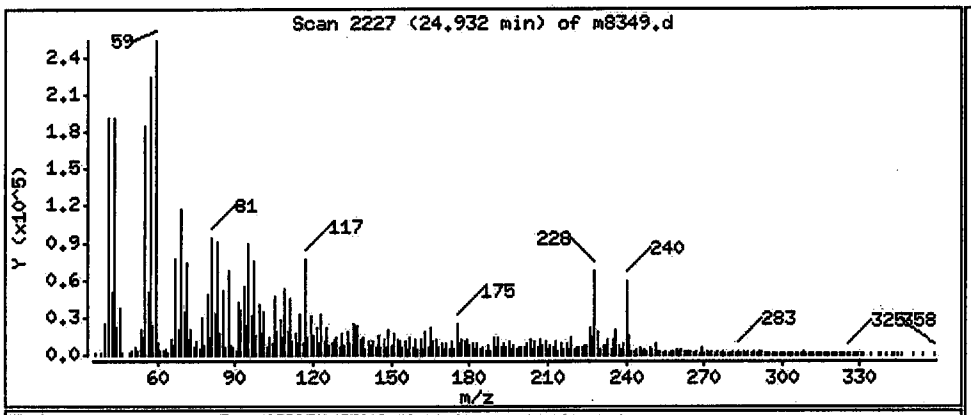
Operator: dce

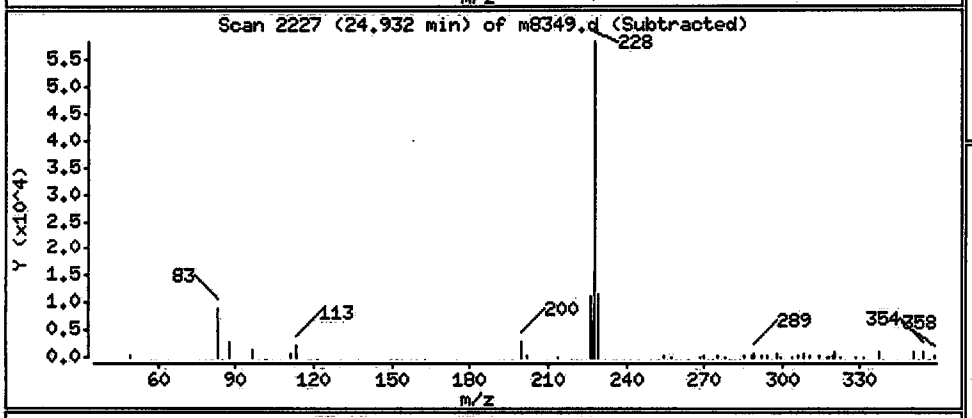
Column phase: ZB-5

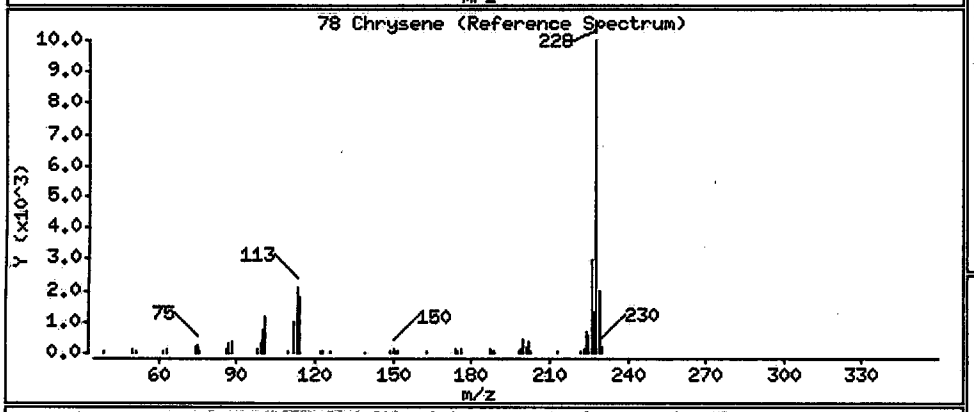
Column diameter: 0.25

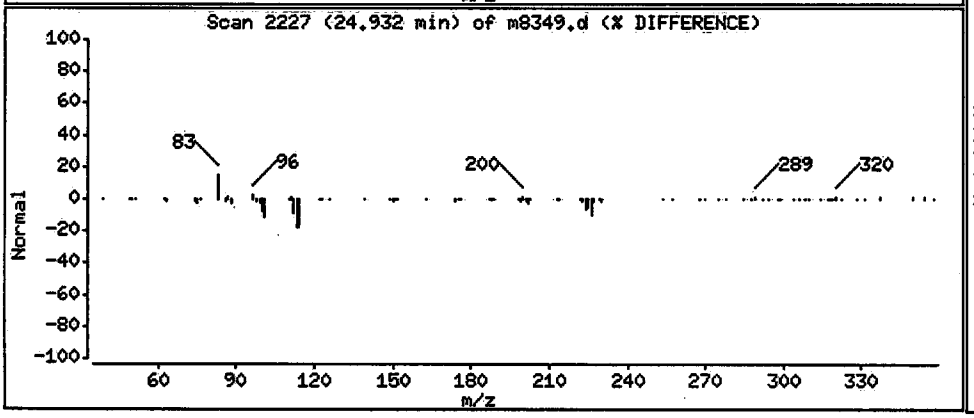
78 Chrysene

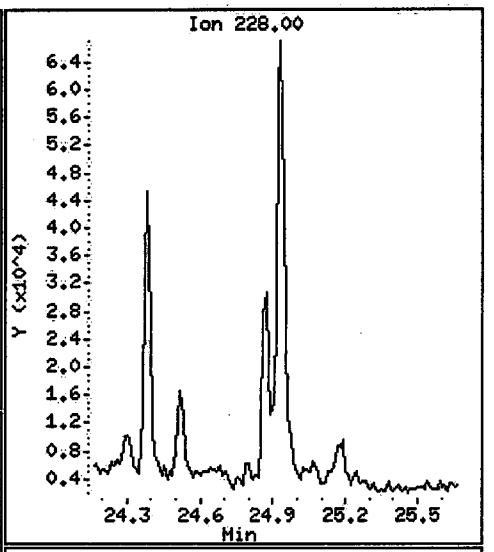
Concentration: 88.6 ug/Kg

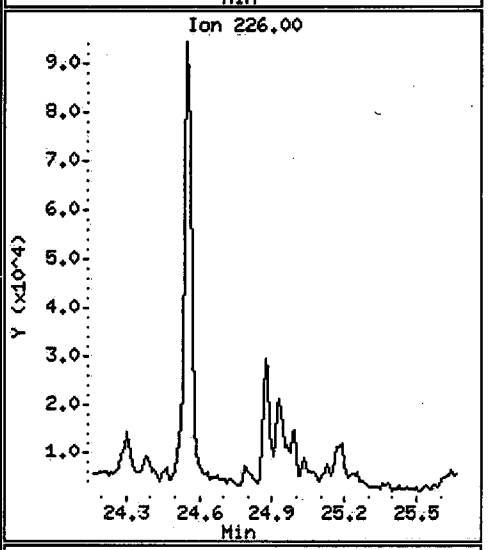


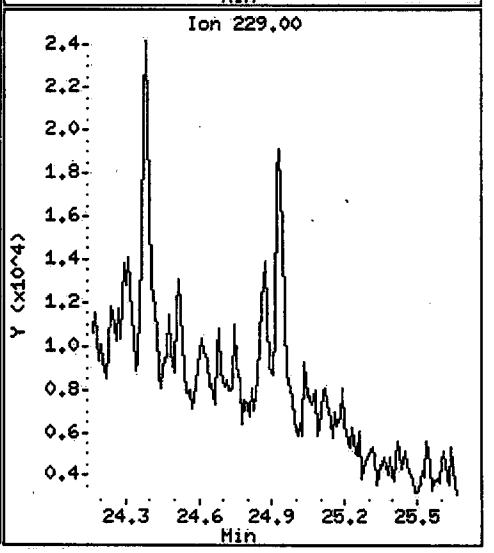












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

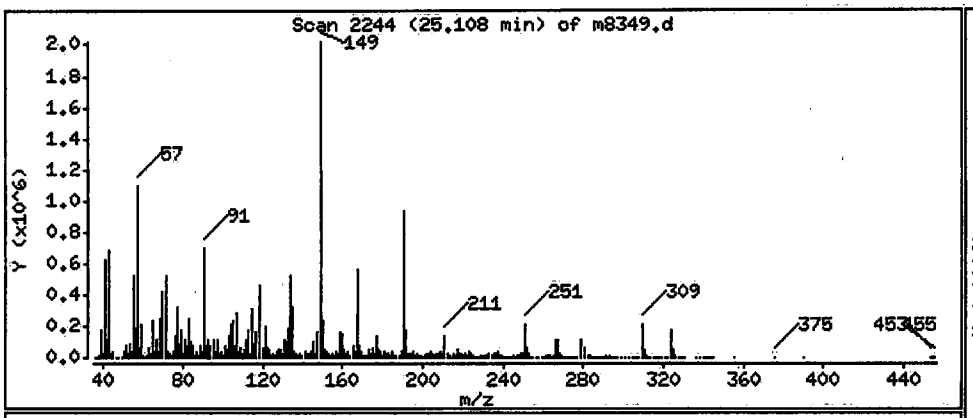
Operator: dce

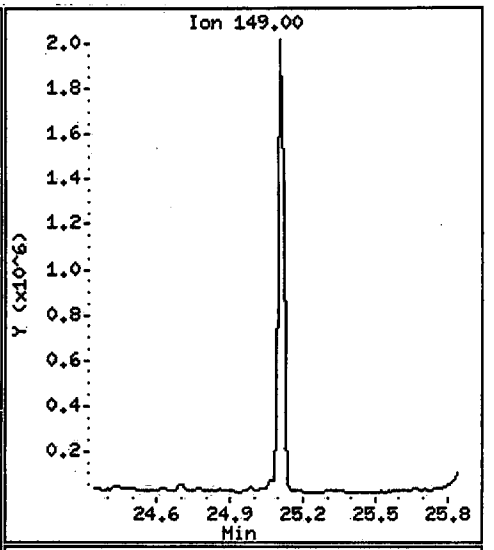
Column phase: ZB-5

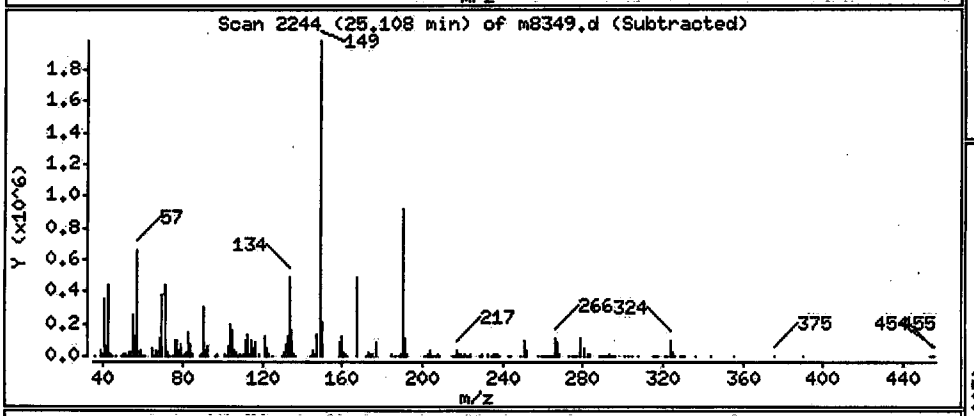
Column diameter: 0.25

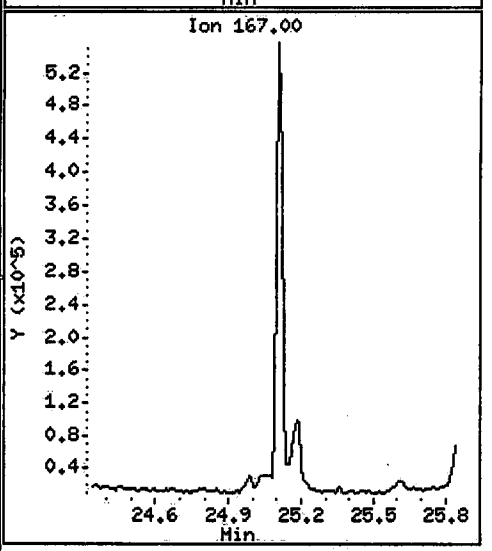
79 Bis(2-ethylhexyl)phthalate

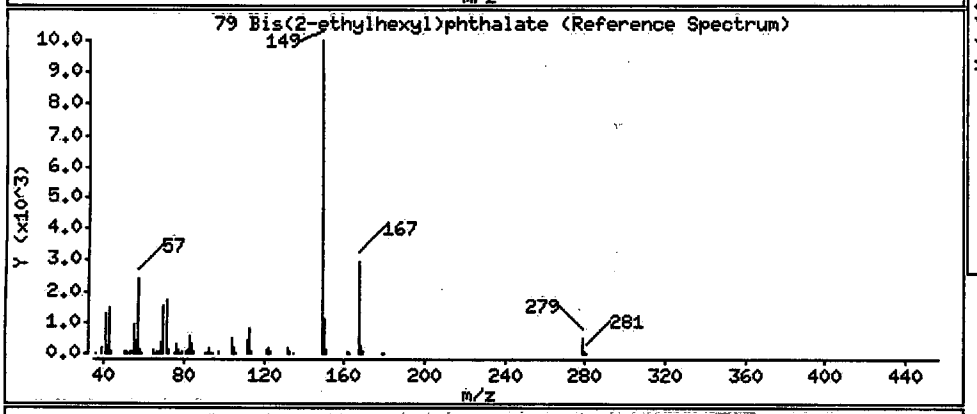
Concentration: 2530 ug/Kg

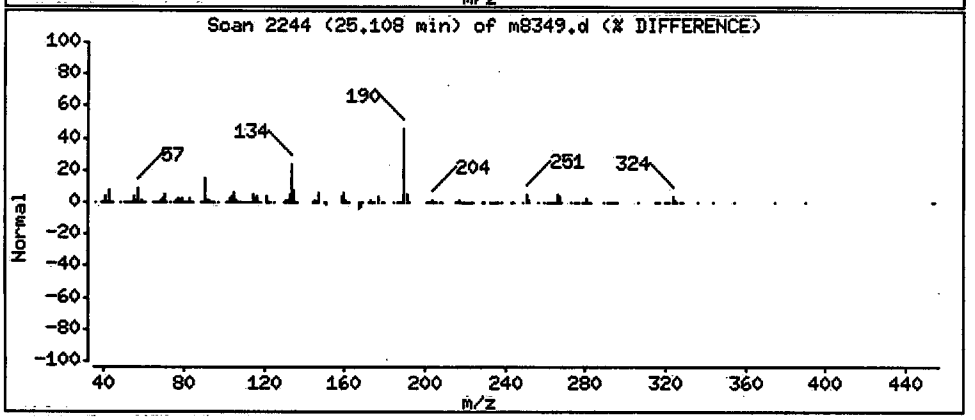












Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

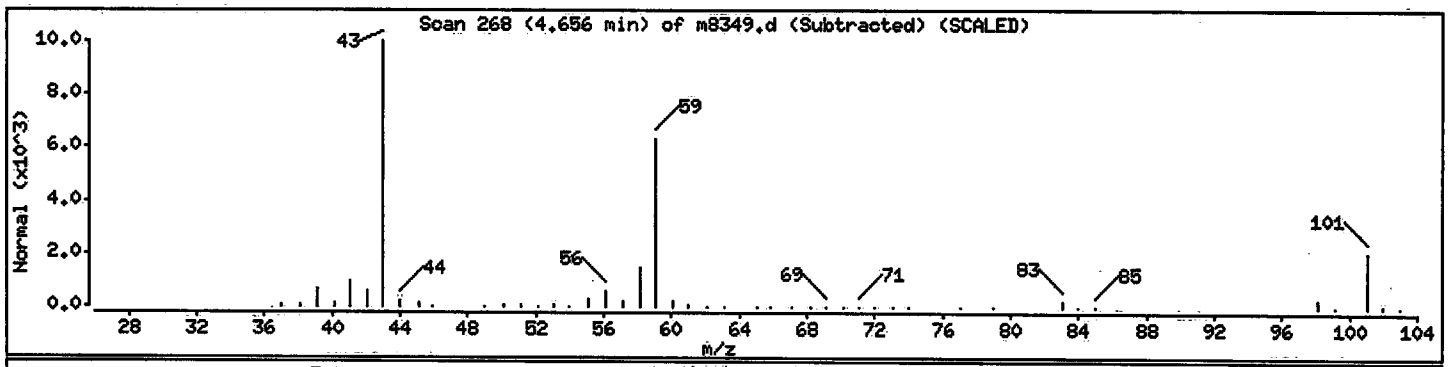
Volume Injected (uL): 2.0

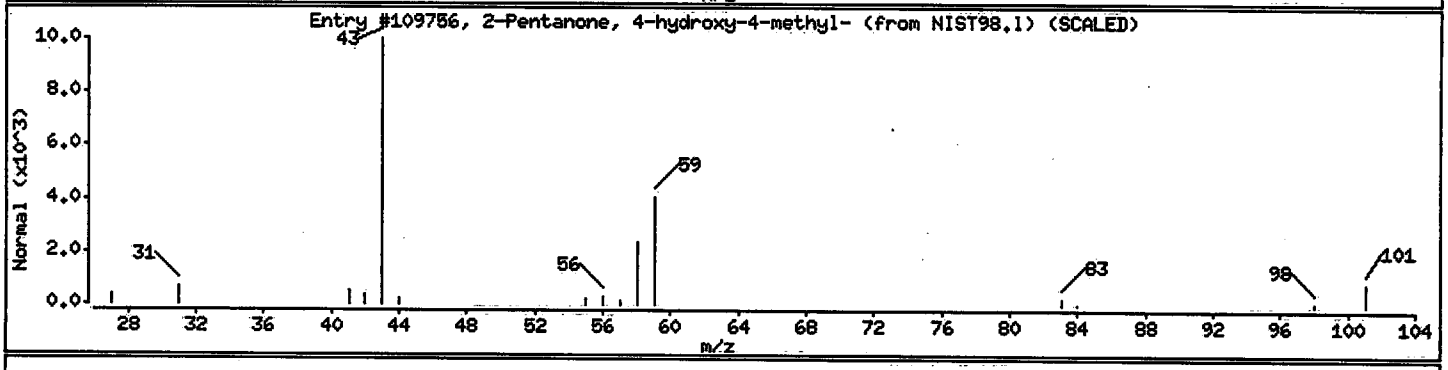
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109756	56	C6H12O2	116





Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

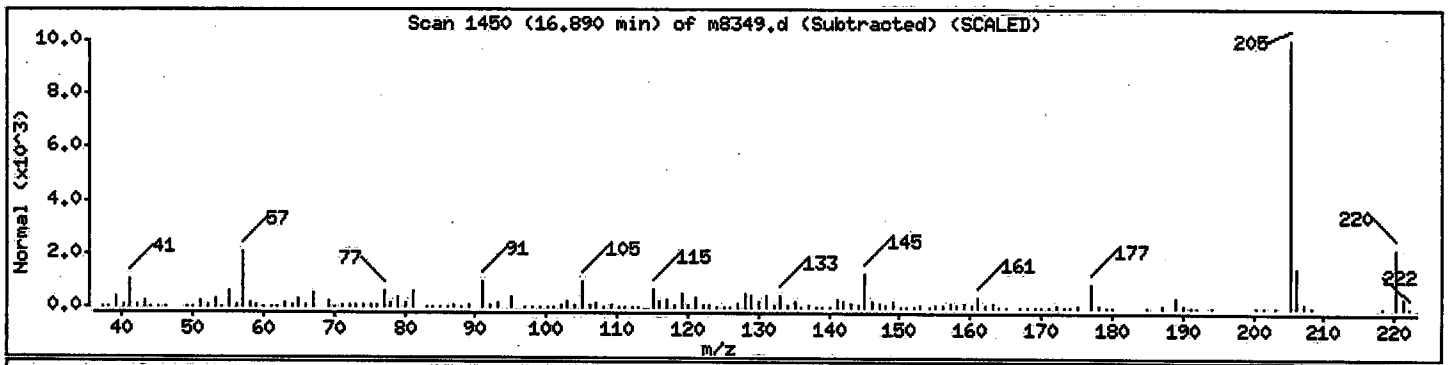
Volume Injected (uL): 2.0

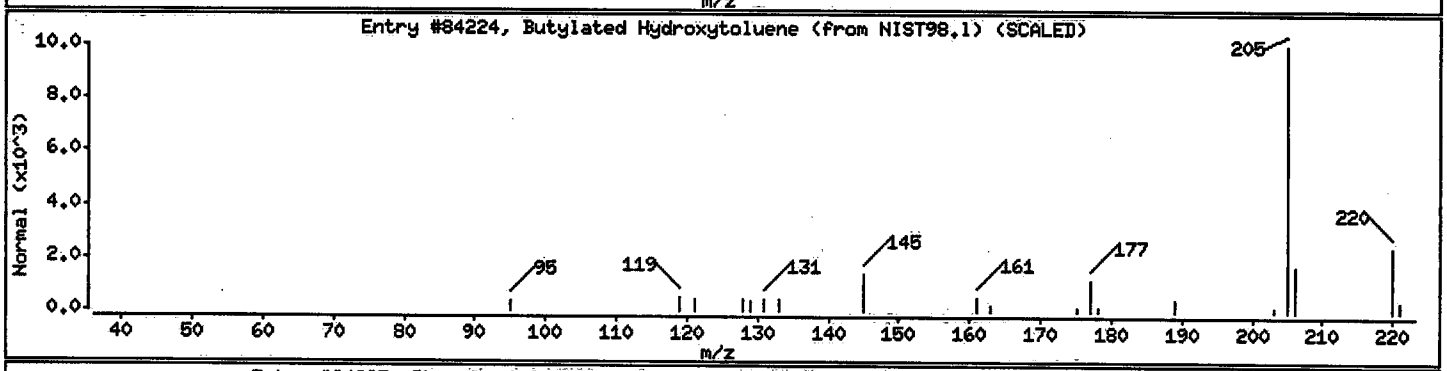
Operator: dce

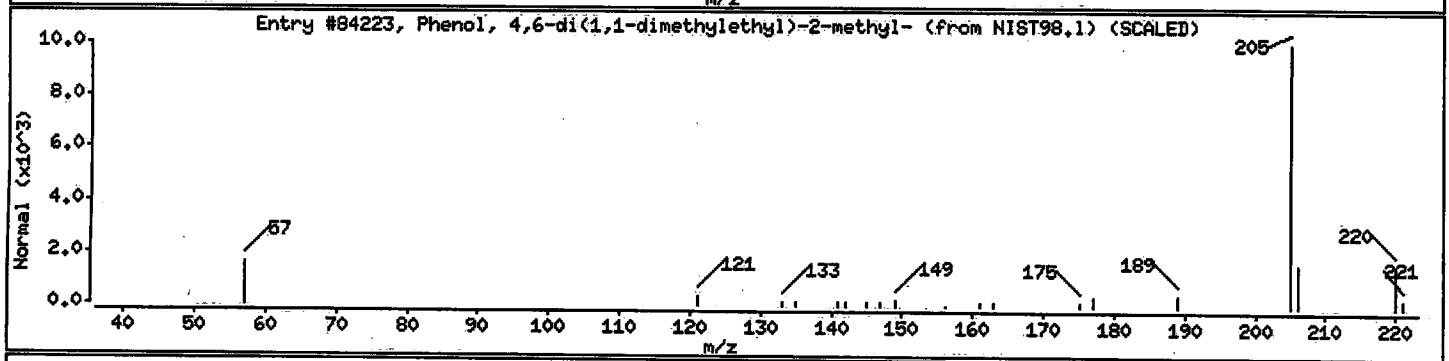
Column phase: ZB-5

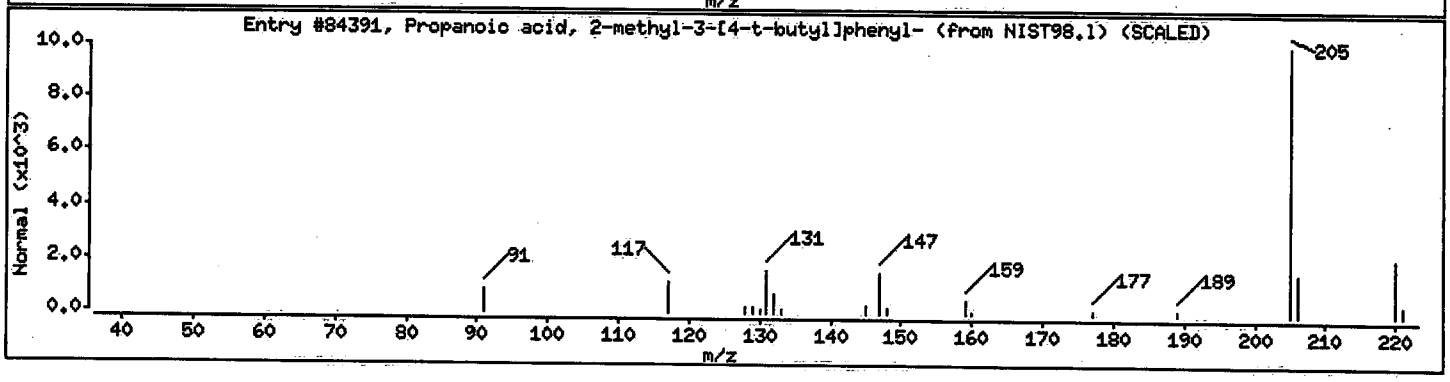
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butylated Hydroxytoluene	128-37-0	NIST98.1	84224	97	C15H24O	220
Phenol, 4,6-di(1,1-dimethylethyl)-2-meth	616-55-7	NIST98.1	84223	81	C15H24O	220
Propanoic acid, 2-methyl-3-[4-t-butyl]ph	1000131-87-0	NIST98.1	84391	72	C14H20O2	220









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

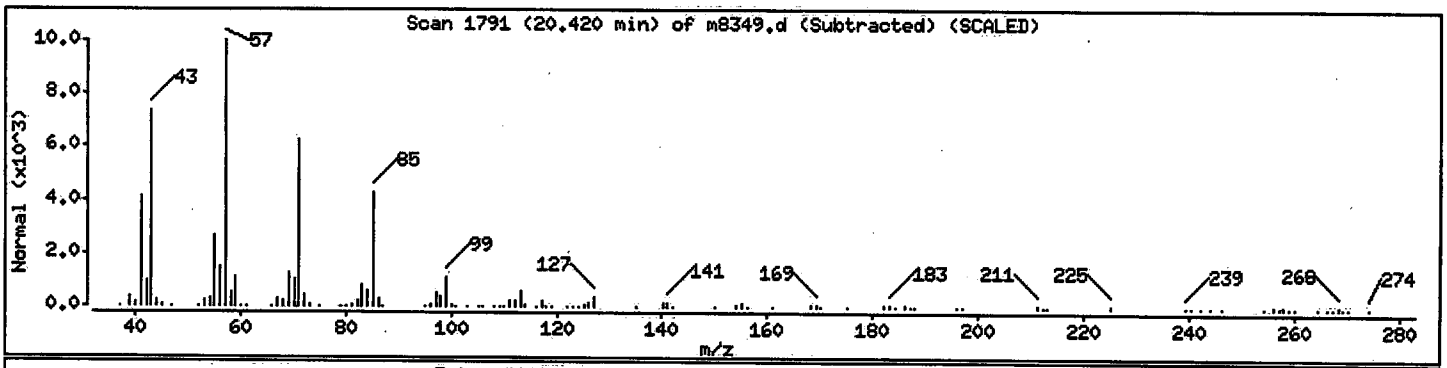
Volume Injected (uL): 2.0

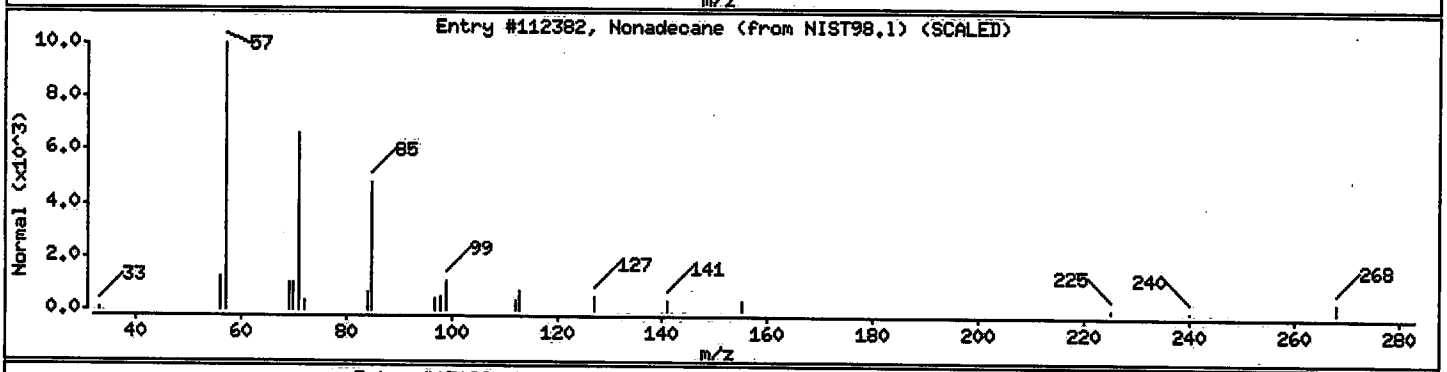
Operator: doe

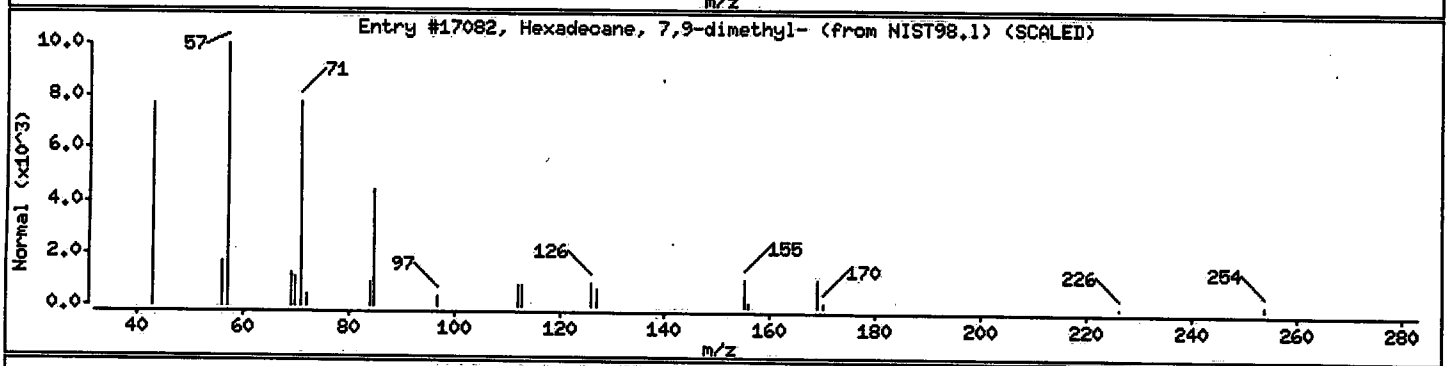
Column phase: ZB-5

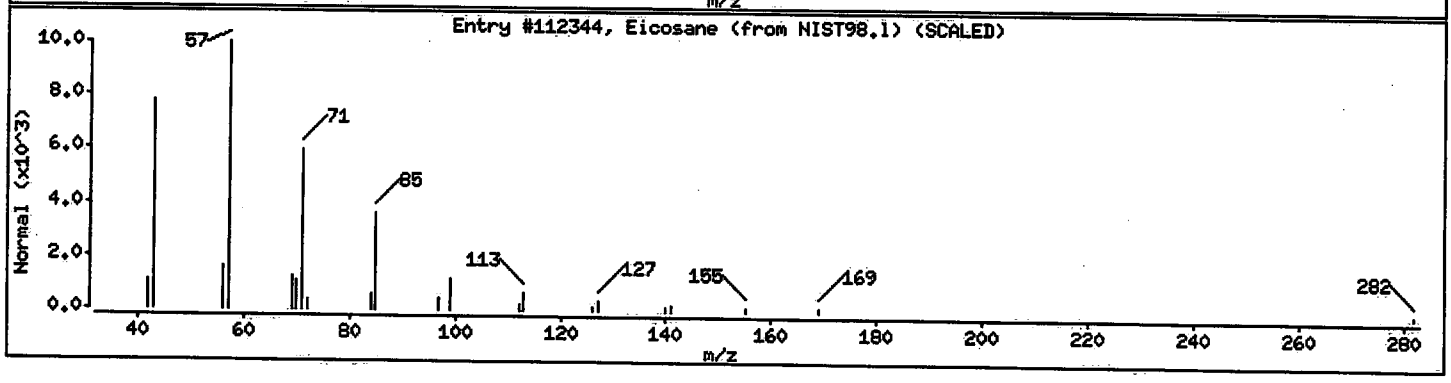
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonadecane	629-92-5	NIST98.1	112382	93	C19H40	268
Hexadecane, 7,9-dimethyl-	21164-95-4	NIST98.1	17082	90	C18H38	254
Eicosane	112-95-8	NIST98.1	112344	90	C20H42	282









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

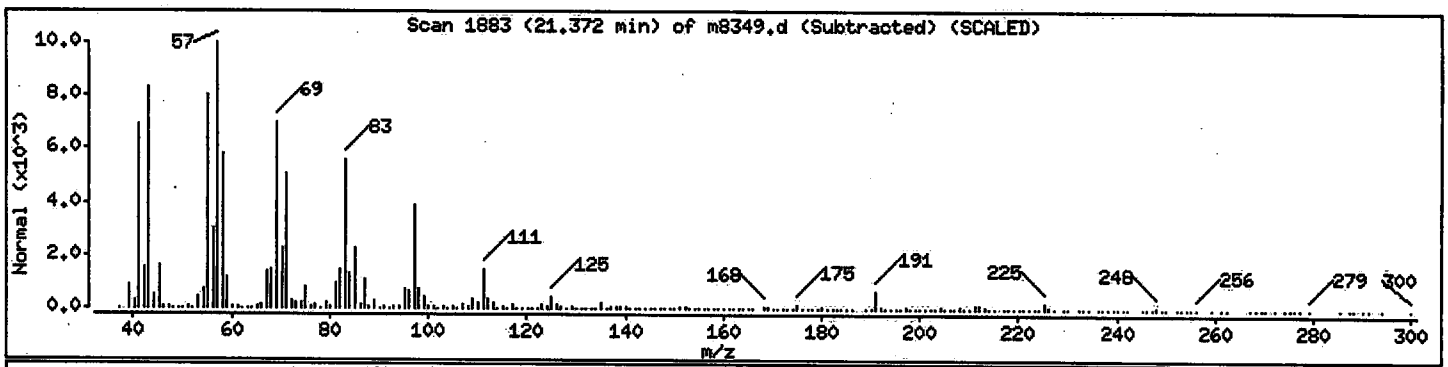
Volume Injected (uL): 2.0

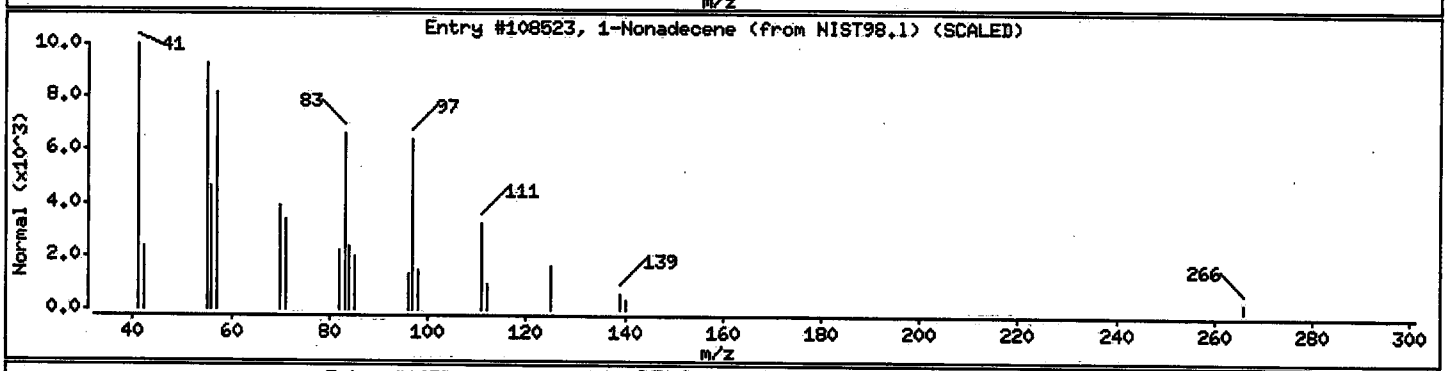
Operator: dce

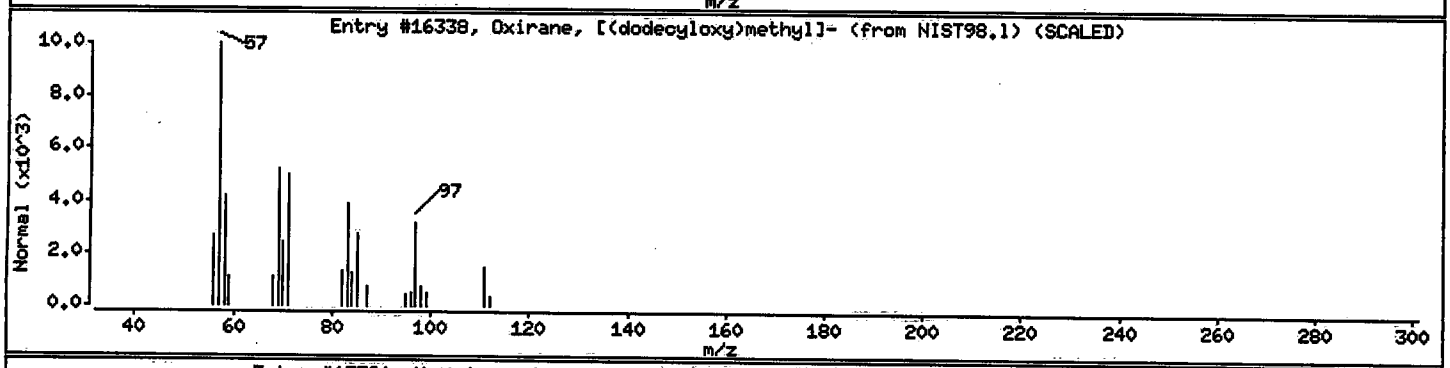
Column phase: ZB-5

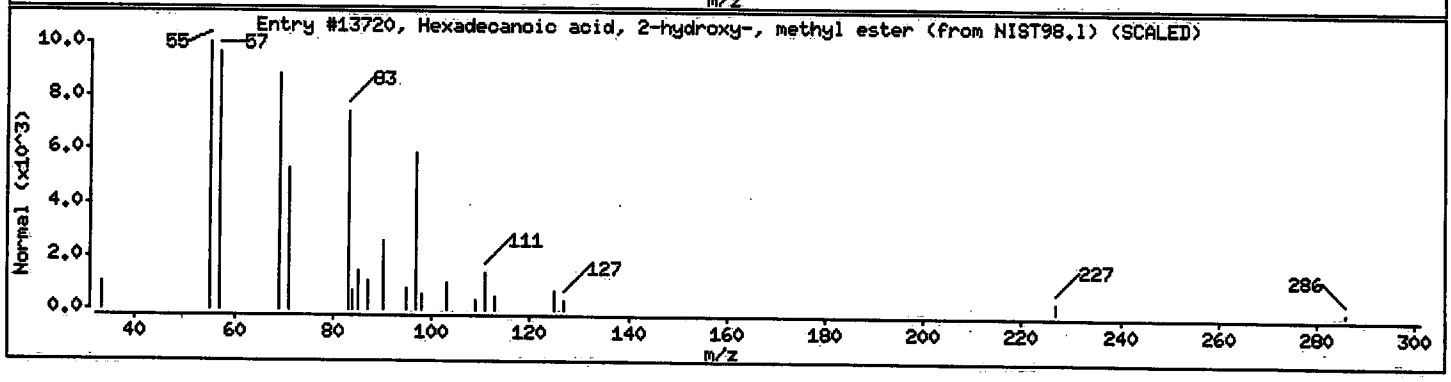
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Nonadecene	18435-45-5	NIST98.1	108523	87	C19H38	266
Oxirane, [(dodecyloxy)methyl]-	2461-18-9	NIST98.1	16338	81	C15H3002	242
Hexadecanoic acid, 2-hydroxy-, methyl es	16742-51-1	NIST98.1	13720	64	C17H3403	286









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

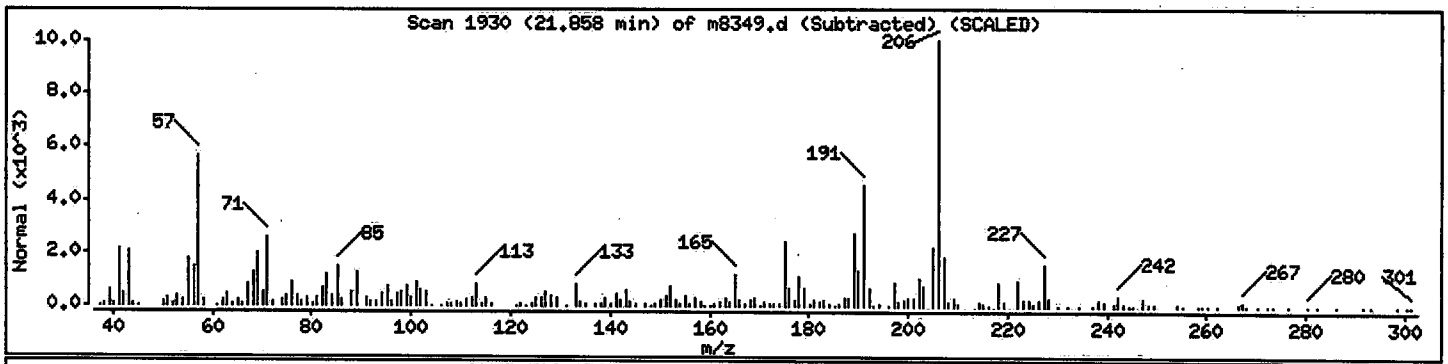
Volume Injected (uL): 2.0

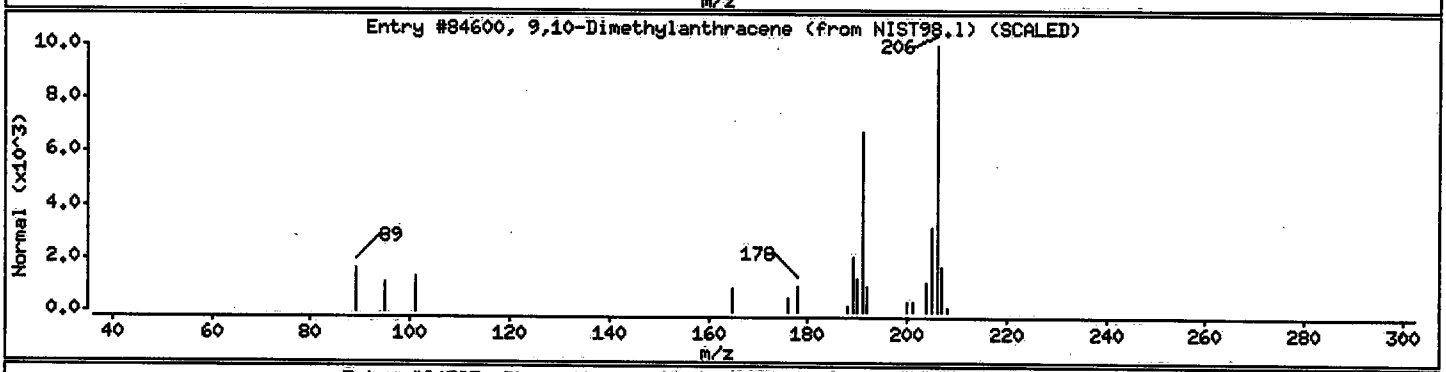
Operator: dce

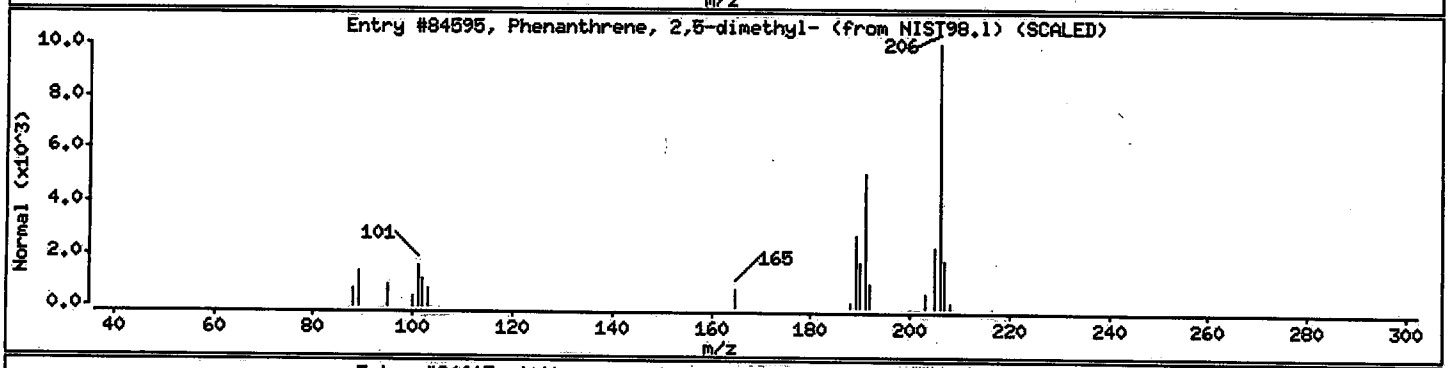
Column phase: ZB-5

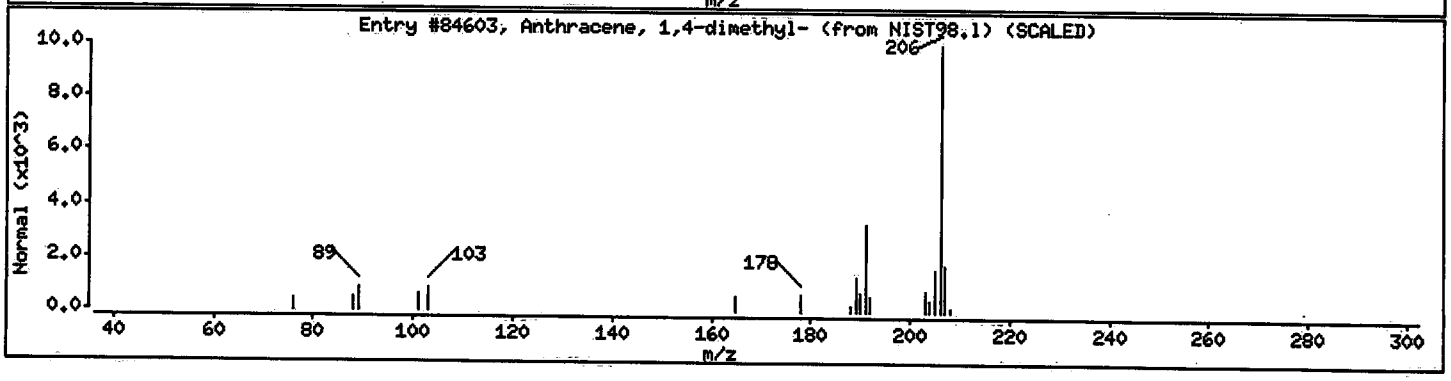
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9,10-Dimethylanthracene	781-43-1	NIST98.1	84600	98	C16H14	206
Phenanthrene, 2,5-dimethyl-	3674-66-6	NIST98.1	84595	96	C16H14	206
Anthracene, 1,4-dimethyl-	781-92-0	NIST98.1	84603	93	C16H14	206









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

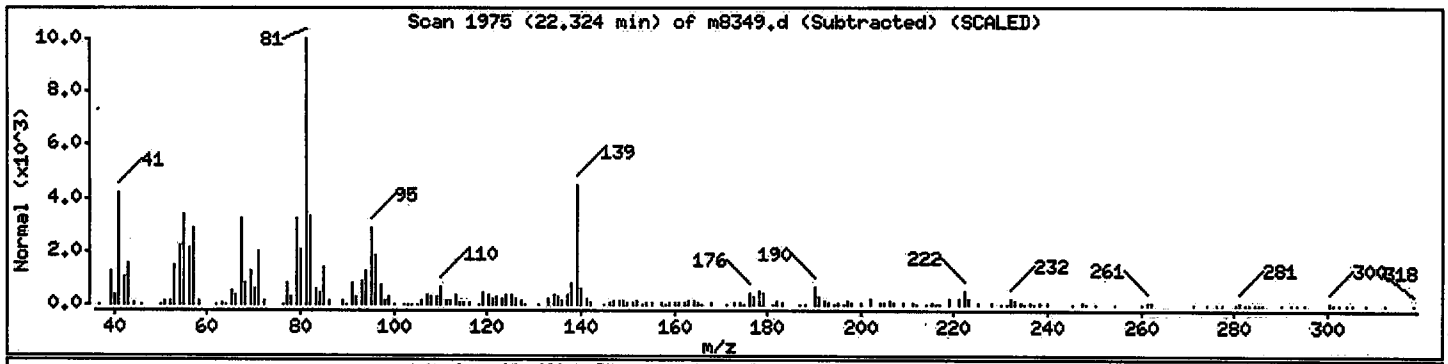
Volume Injected (uL): 2.0

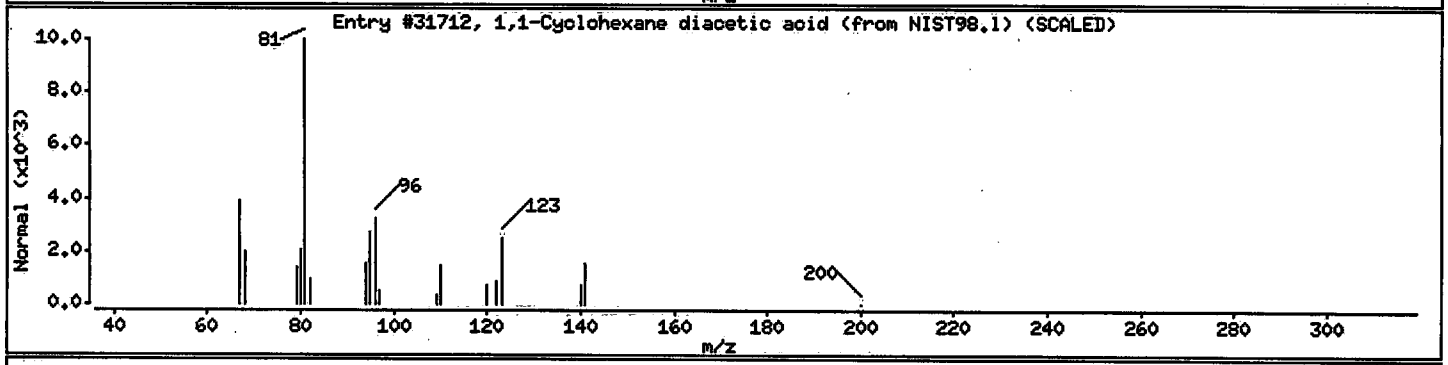
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,1-Cyclohexane diacetic acid	9355-11-7	NIST98.1	31712	53	C10H16O4	200





Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

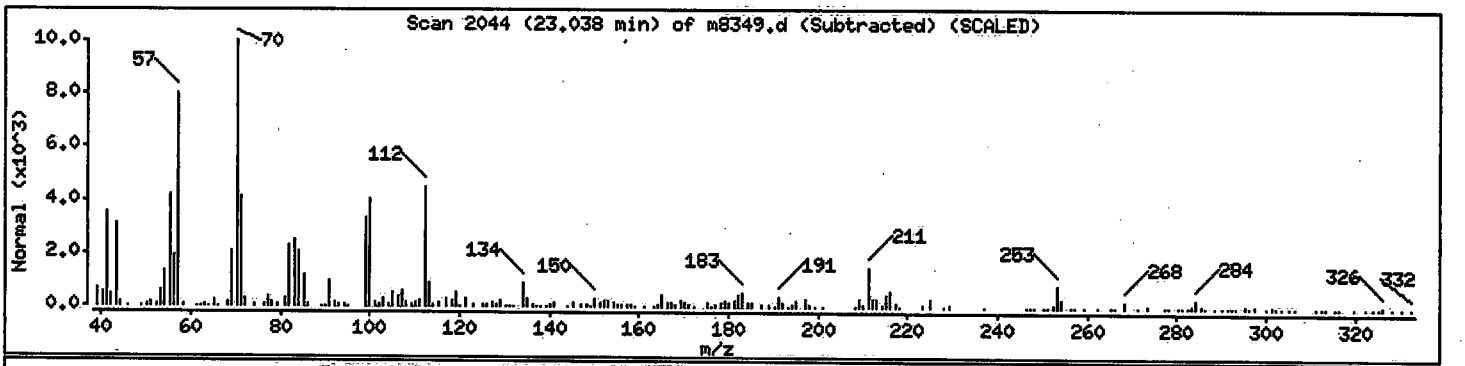
Volume Injected (uL): 2.0

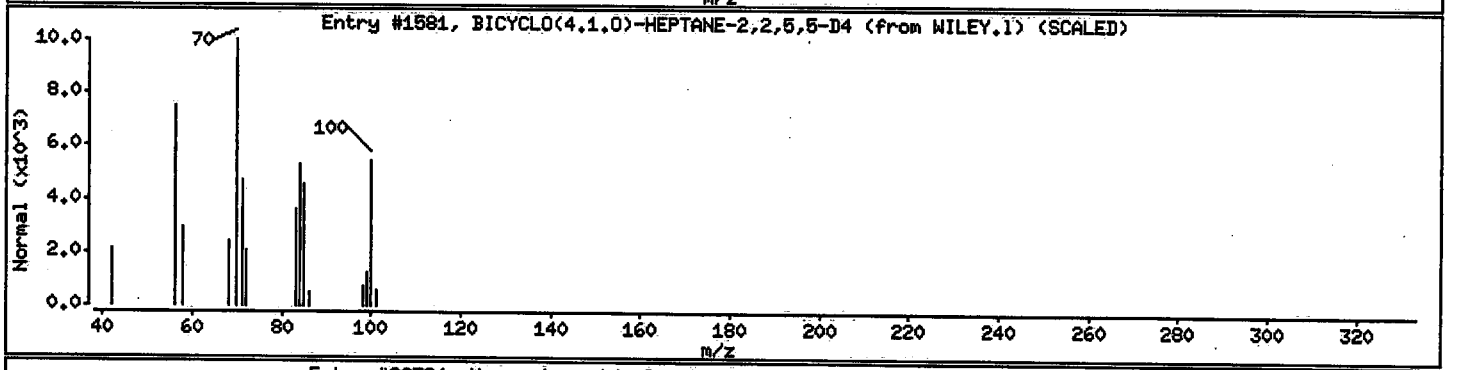
Operator: dce

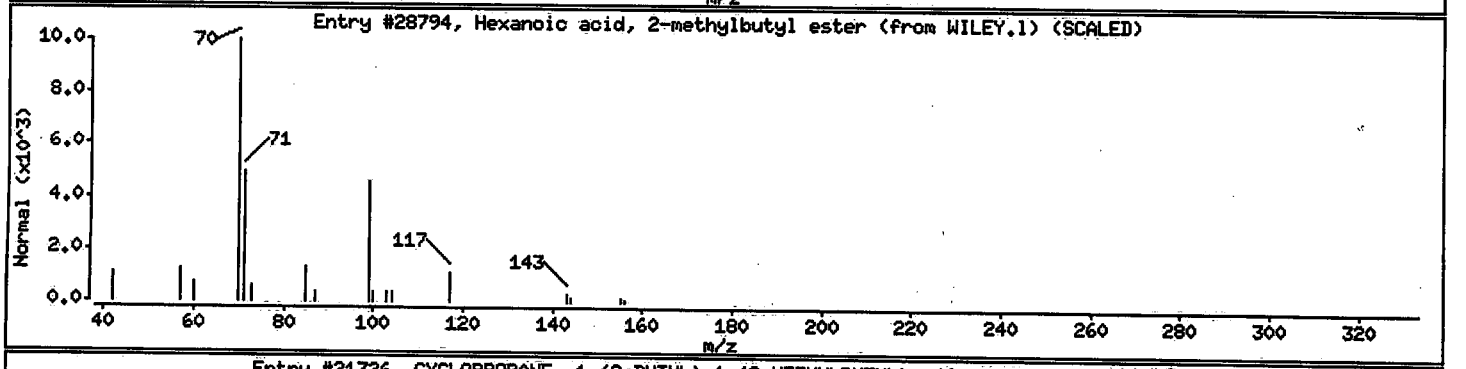
Column phase: ZB-5

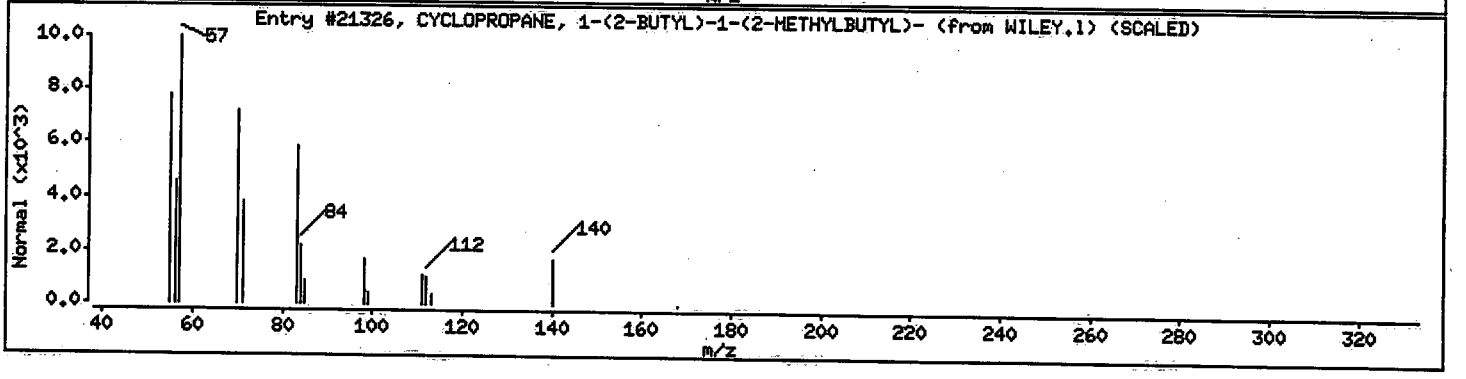
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
BICYCLO(4.1.0)-HEPTANE-2,2,5,5-D4	55937-98-9	WILEY.1	1581	38	C7H8D4	96
Hexanoic acid, 2-methylbutyl ester	2601-13-0	WILEY.1	28794	37	C11H2202	186
CYCLOPROPANE, 1-(2-BUTYL)-1-(2-METHYLBUT	0-00-0	WILEY.1	21326	32	C12H24	168









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

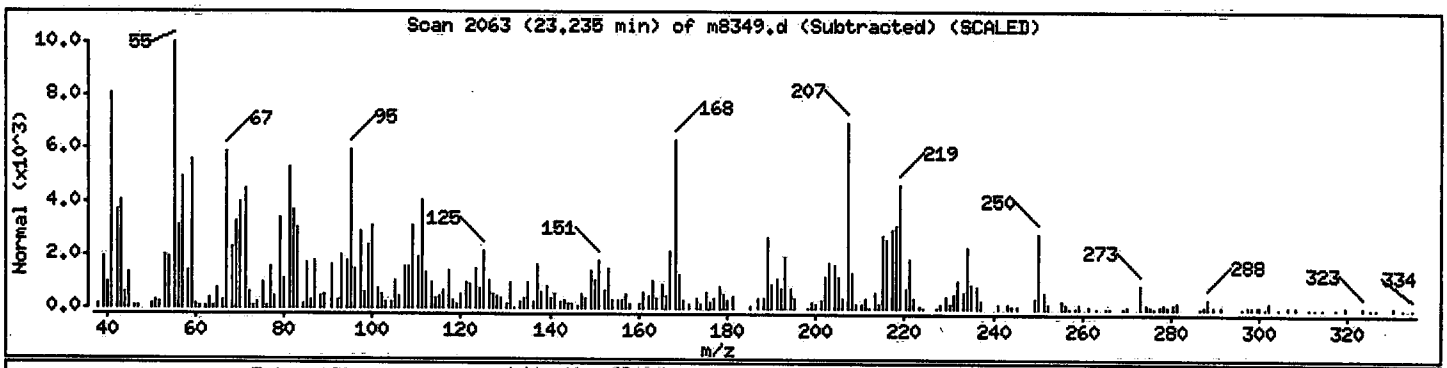
Volume Injected (uL): 2.0

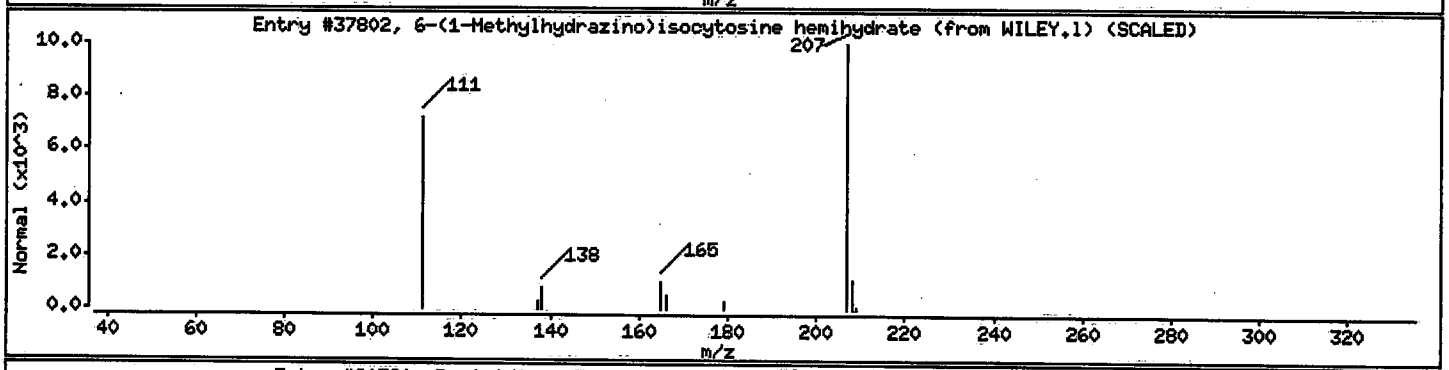
Operator: dce

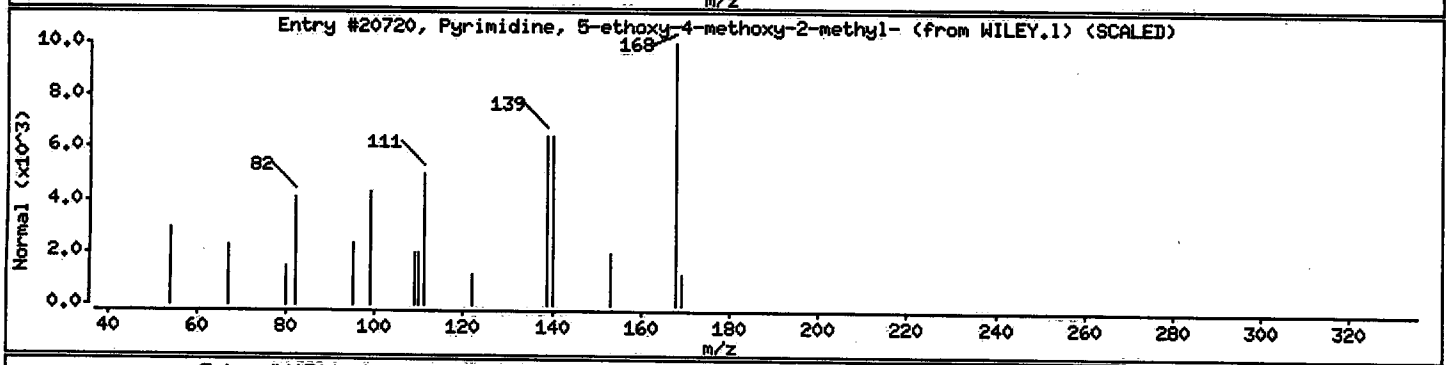
Column phase: ZB-5

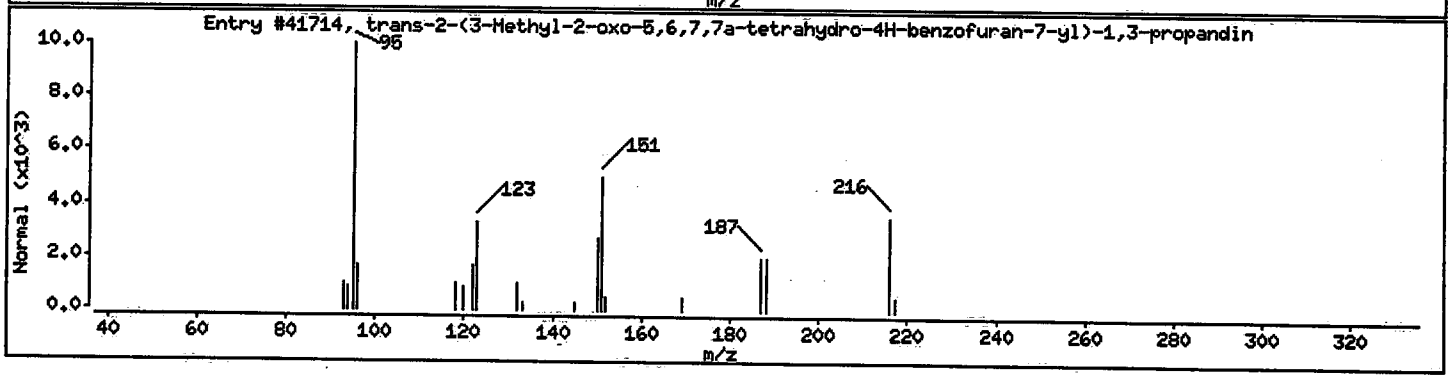
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
6-(1-Methylhydrazino)isocytosine hemihyd	0-00-0	WILEY.l	37802	25	C8H9N5O2	207
Pyrimidine, 5-ethoxy-4-methoxy-2-methyl-	24614-12-8	WILEY.l	20720	20	C8H12N2O2	168
trans-2-(3-Methyl-2-oxo-5,6,7,7a-tetrahy	80755-68-6	WILEY.l	41714	15	C12H12N2O2	216









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

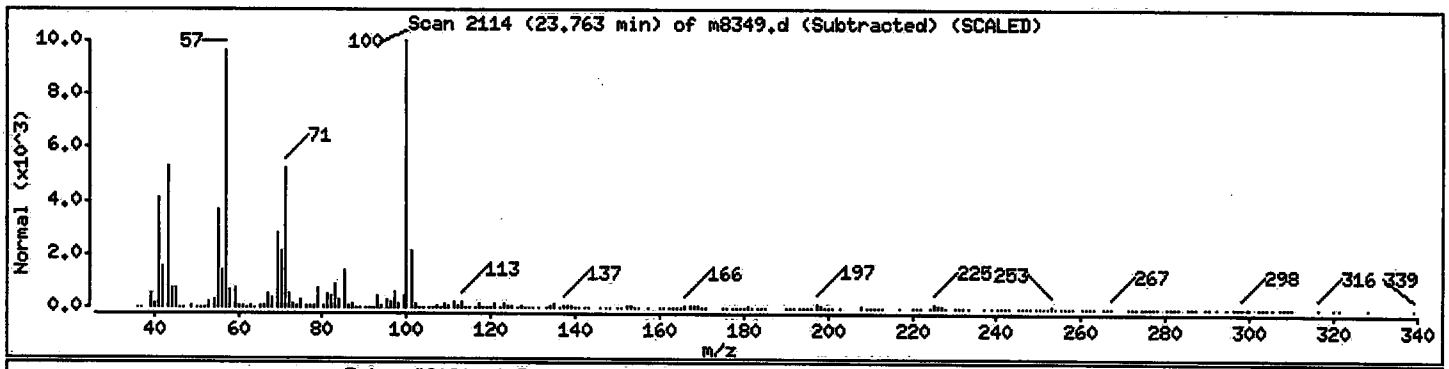
Volume Injected (uL): 2.0

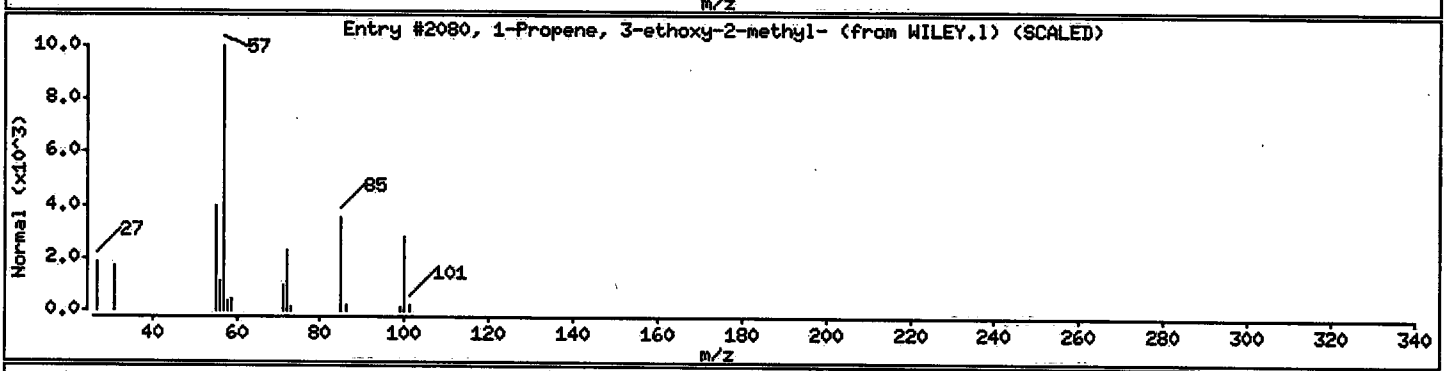
Operator: dce

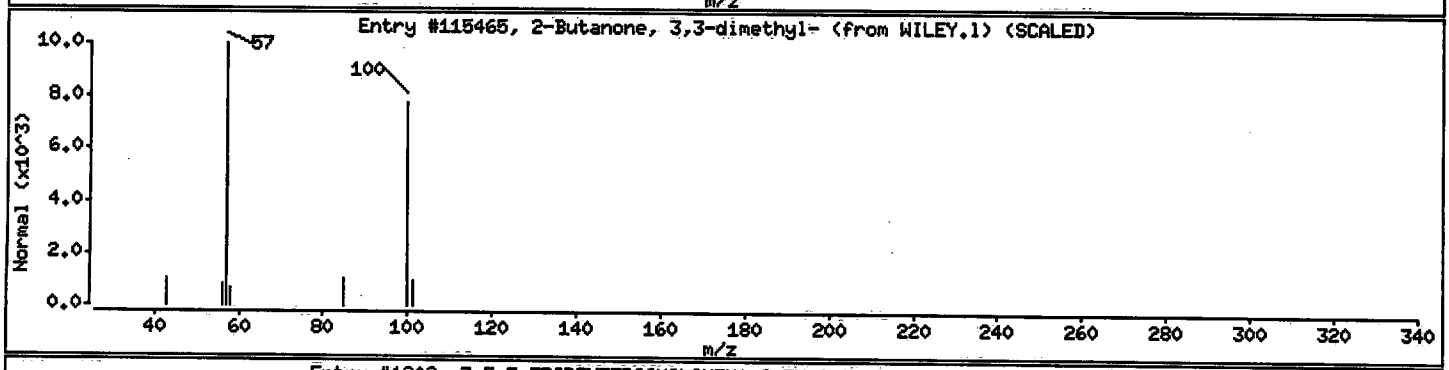
Column phase: ZB-5

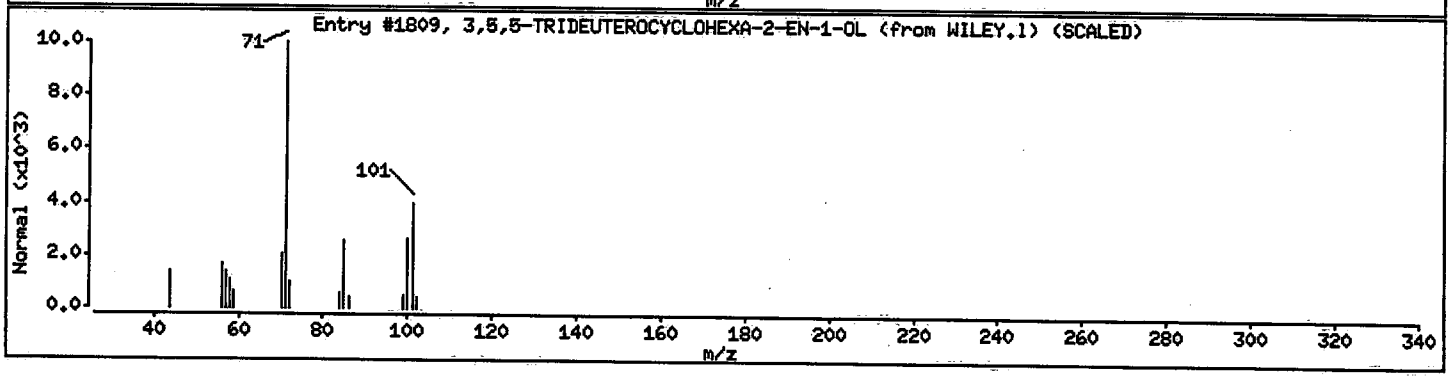
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 3-ethoxy-2-methyl-	24309-28-2	WILEY.l	2080	47	C6H12O	100
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.l	115465	43	C6H12O	100
3,5,5-TRIDEUTEROCYCLOHEXA-2-EN-1-OL	73741-73-8	WILEY.l	1809	38	C6H7D3O	98









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Client ID:

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Sample Info: 0307090-05A

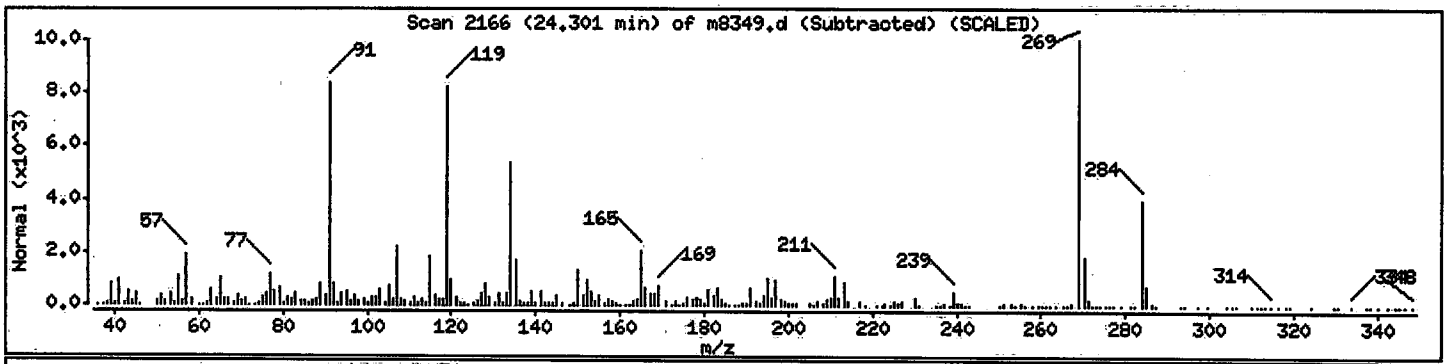
Volume Injected (uL): 2.0

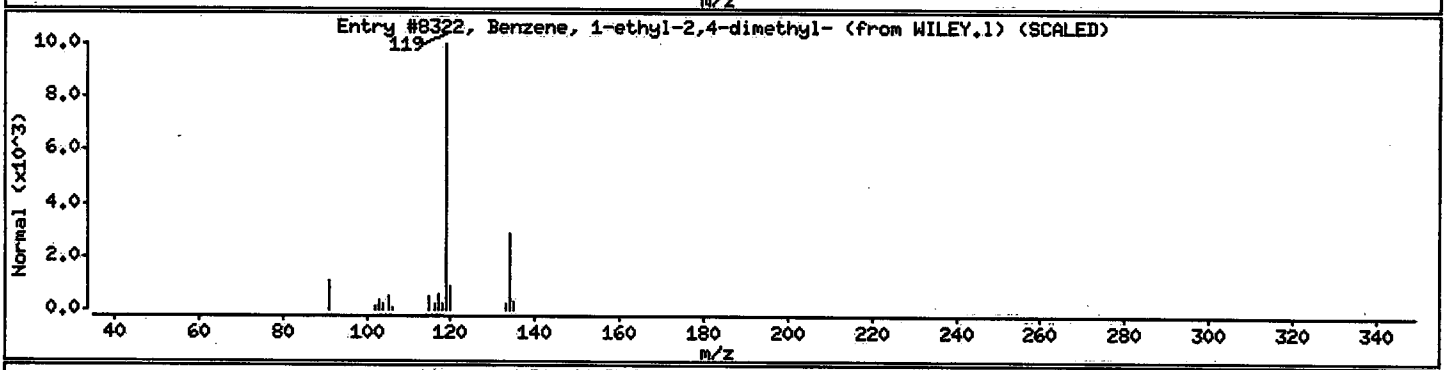
Operator: dce

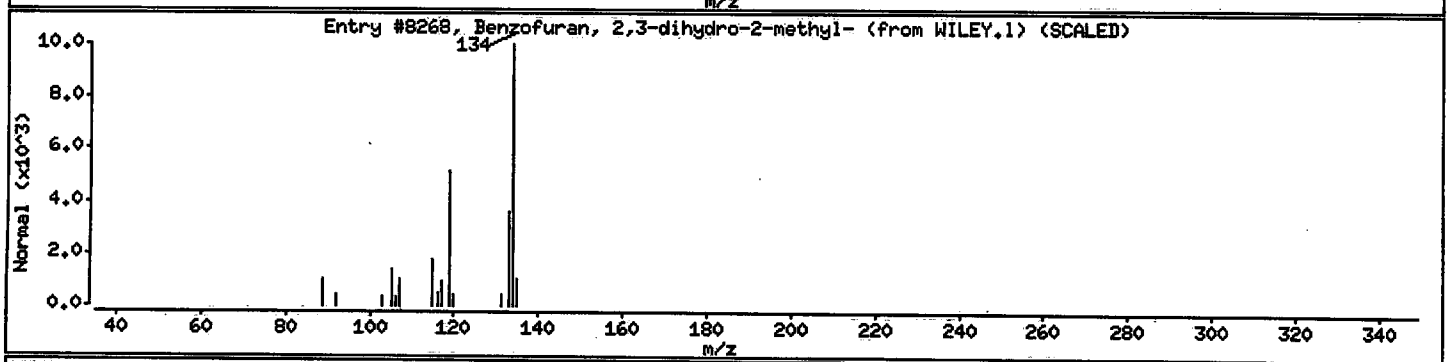
Column phase: ZB-5

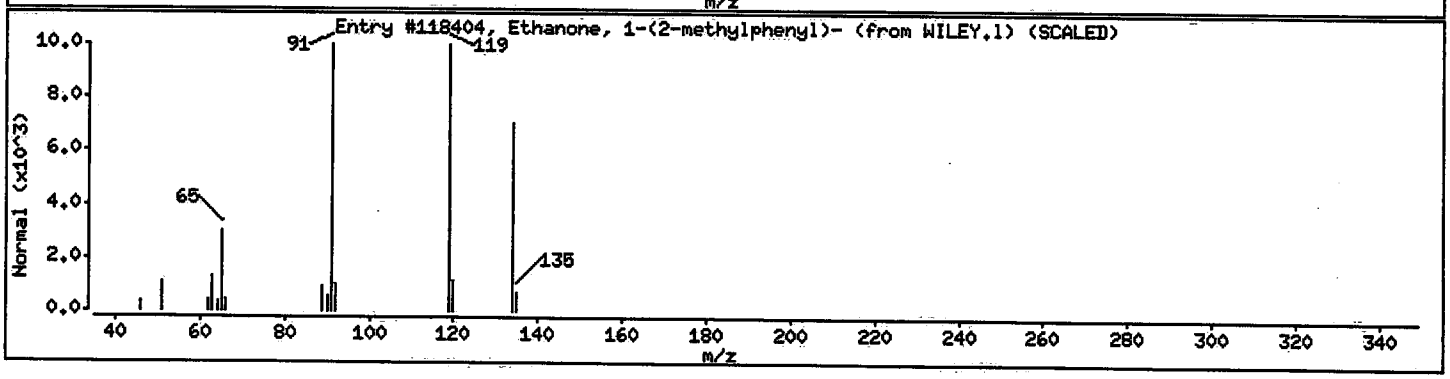
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	WILEY.1	8322	38	C10H14	134
Benzofuran, 2,3-dihydro-2-methyl-	1746-11-8	WILEY.1	8268	30	C9H10O	134
Ethanone, 1-(2-methylphenyl)-	577-16-2	WILEY.1	118404	30	C9H10O	134









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

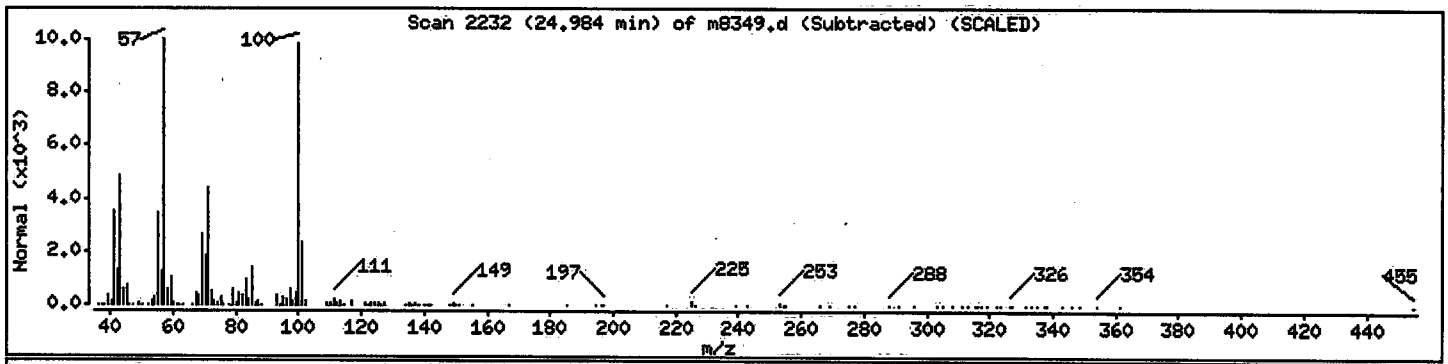
Volume Injected (uL): 2.0

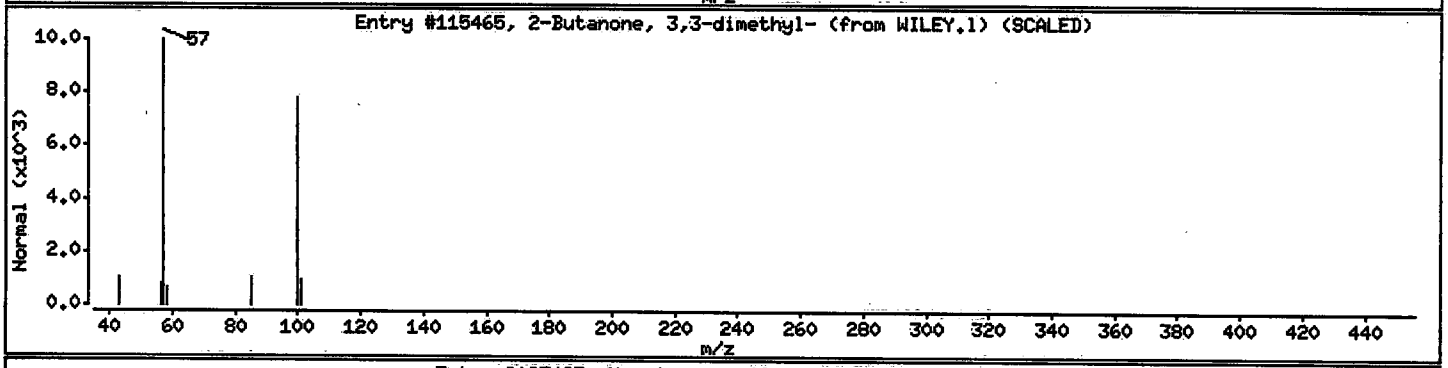
Operator: dce

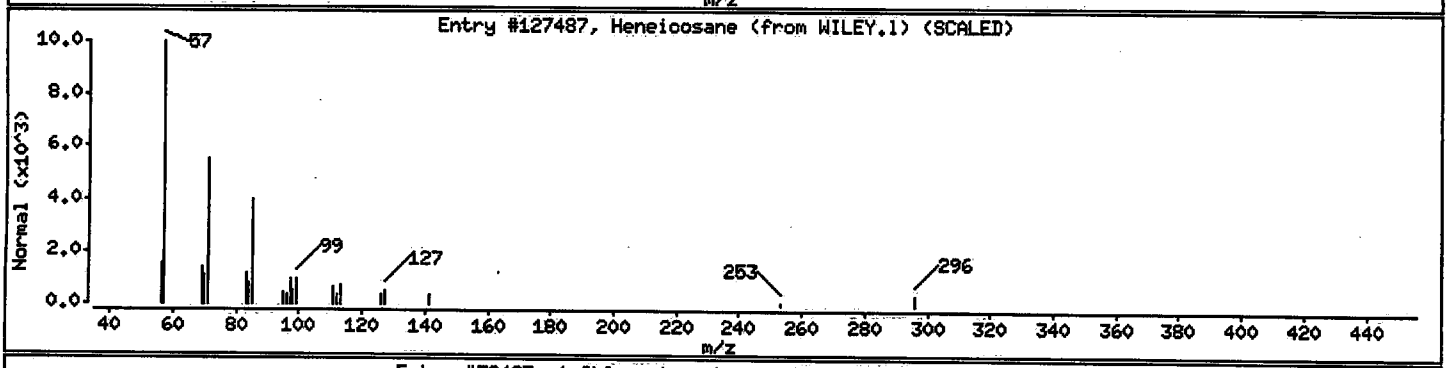
Column phase: ZB-5

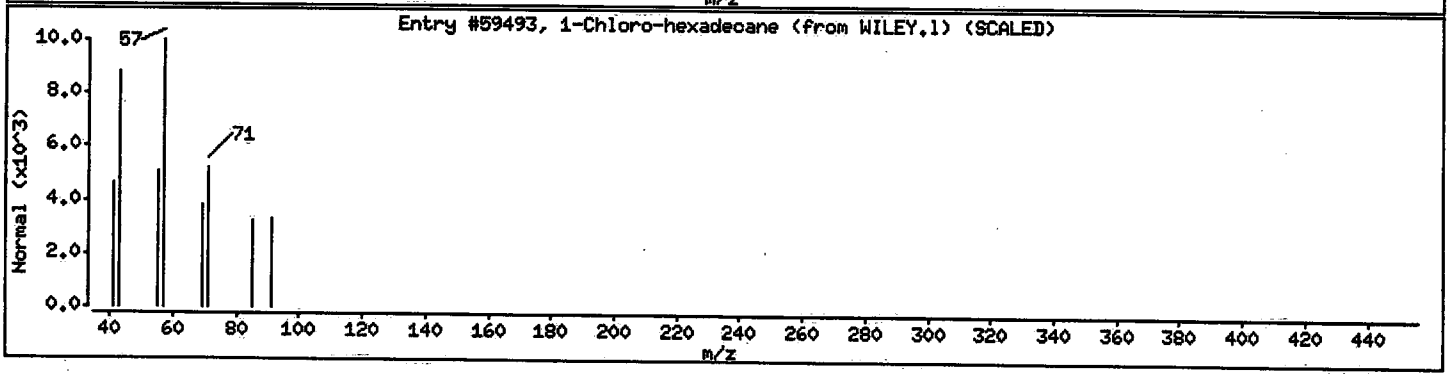
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.1	115465	43	C6H12O	100
Heneicosane	629-94-7	WILEY.1	127487	27	C21H44	296
1-Chloro-hexadecane	0-00-0	WILEY.1	59493	22	C16H33Cl	260









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Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

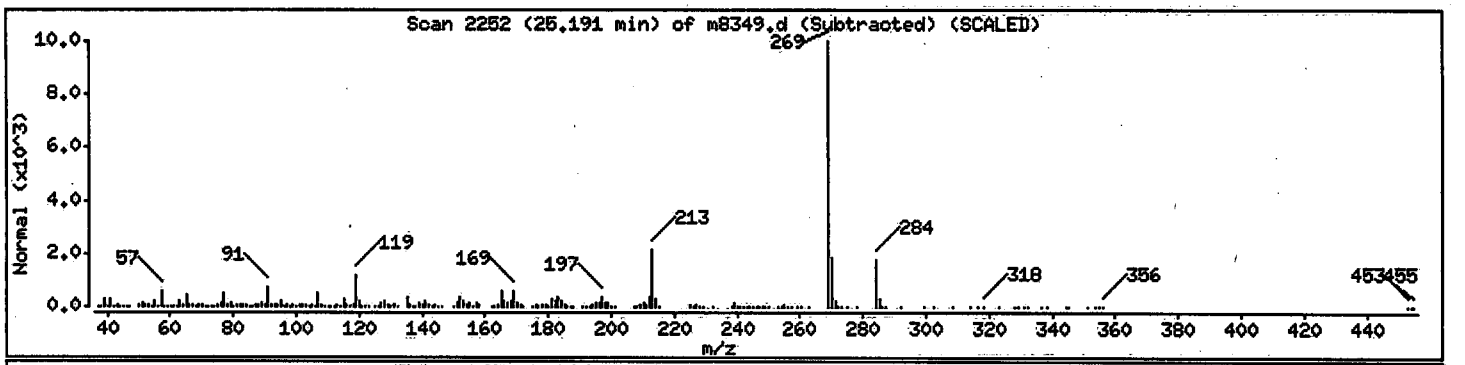
Volume Injected (uL): 2.0

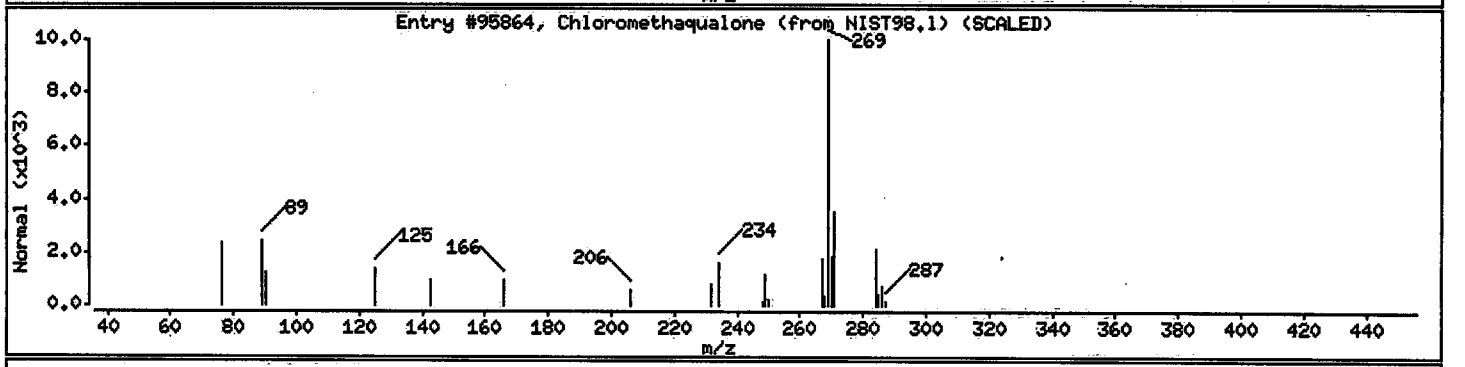
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chloromethaqualone	3166-54-9	NIST98.1	95864	50	C16H13ClN2O	284





Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

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Sample Info: 0307090-05A

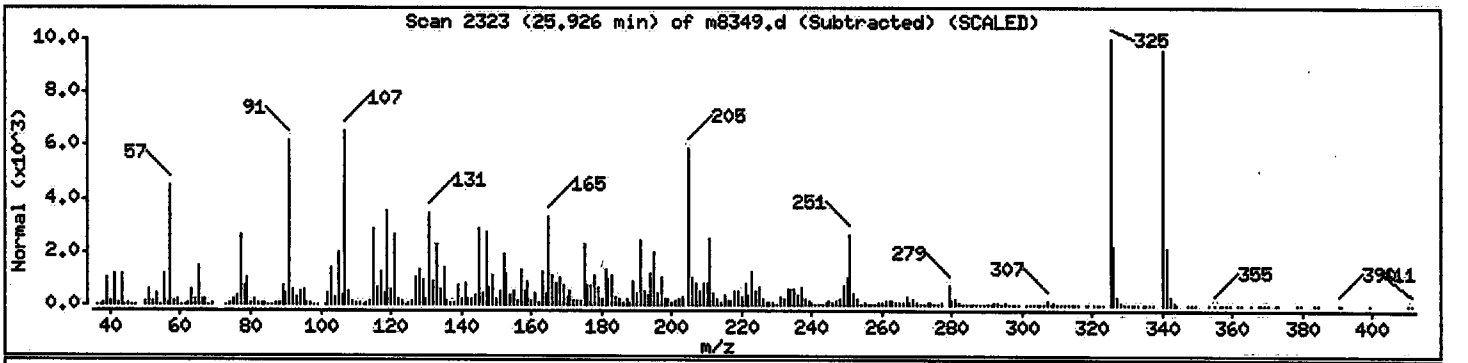
Volume Injected (uL): 2.0

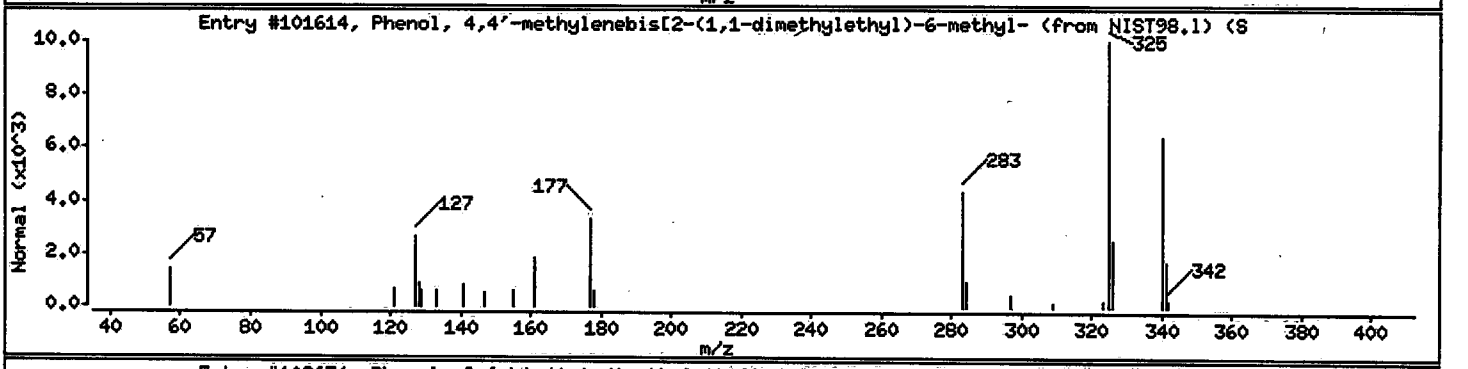
Operator: doe

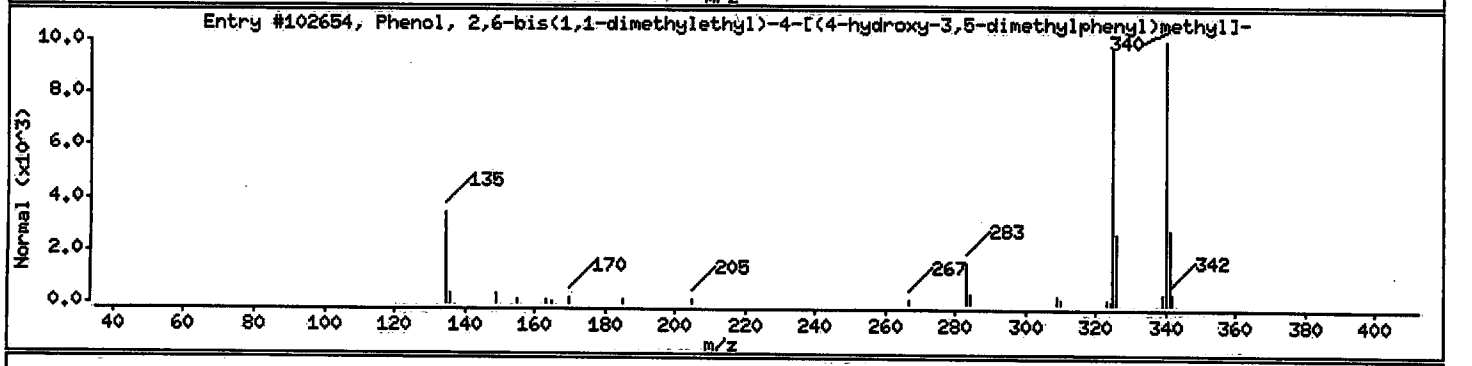
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	NIST98.1	101614	55	C23H3202	340
Phenol, 2,6-bis(1,1-dimethylethyl)-4-[(4	20690-84-0	NIST98.1	102654	53	C23H3202	340







Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

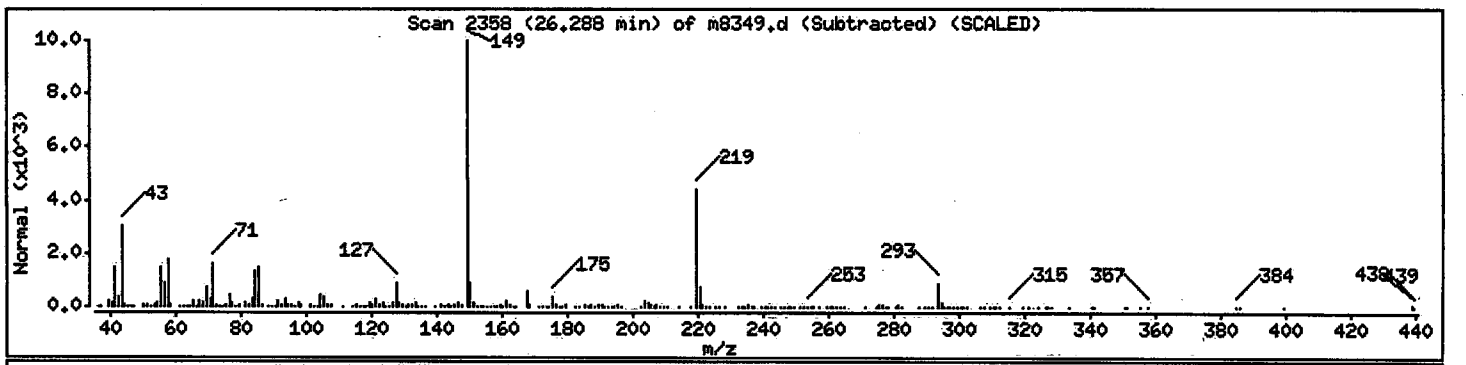
Volume Injected (uL): 2.0

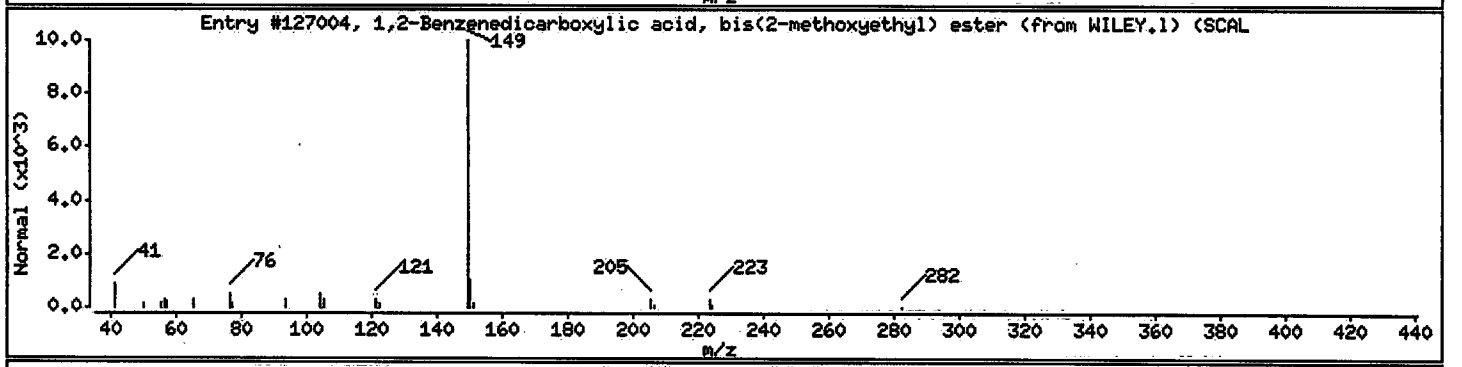
Operator: dce

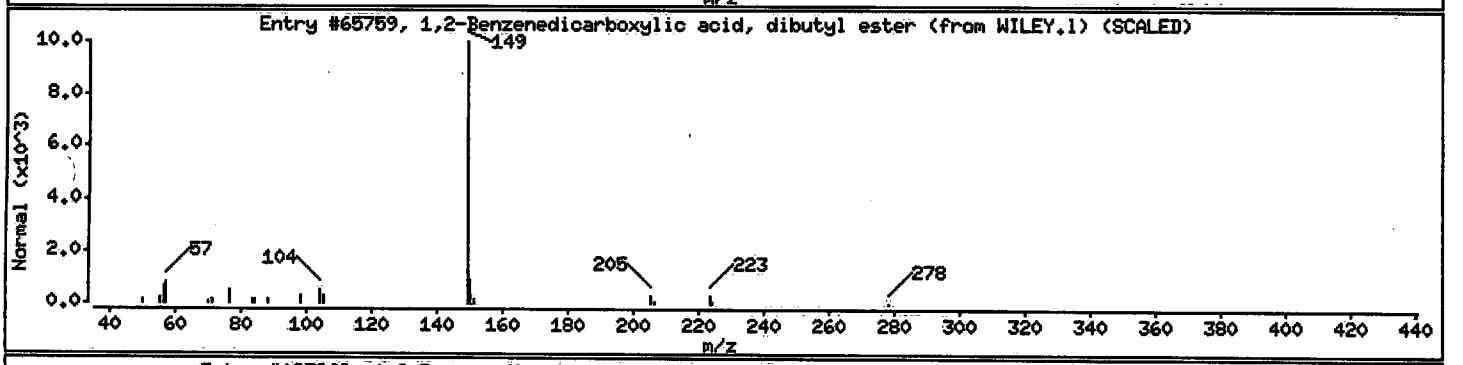
Column phase: ZB-5

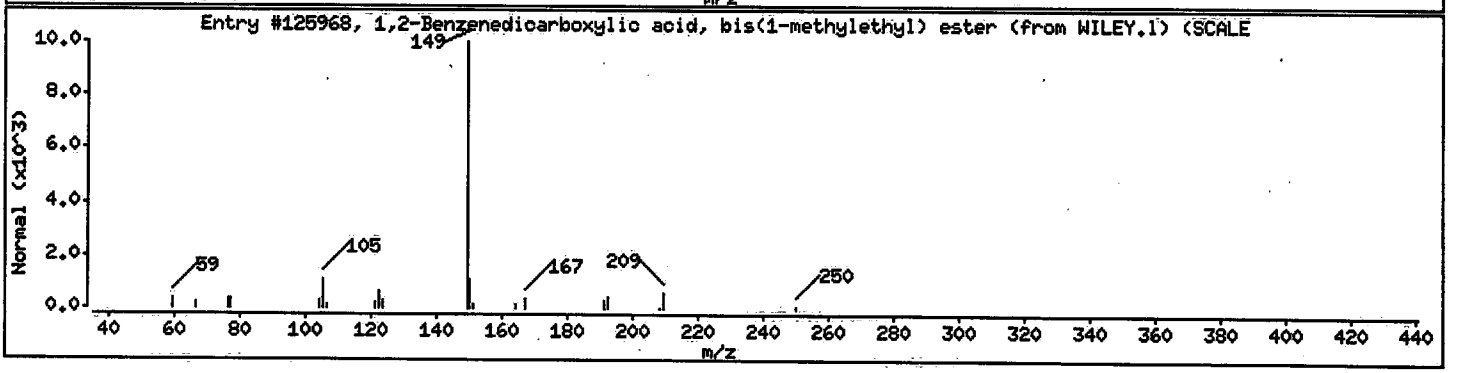
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, bis(2-meth	117-82-8	WILEY.1	127004	41	C14H1806	282
1,2-Benzenedicarboxylic acid, dibutyl es	84-74-2	WILEY.I	65759	38	C16H2204	278
1,2-Benzenedicarboxylic acid, bis(1-meth	605-45-8	WILEY.I	125968	38	C14H1804	250









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

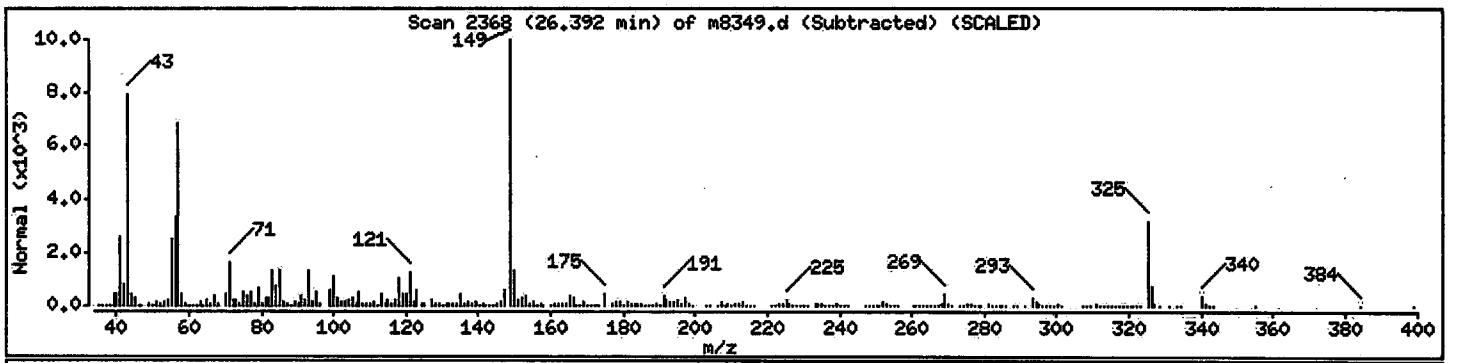
Volume Injected (uL): 2.0

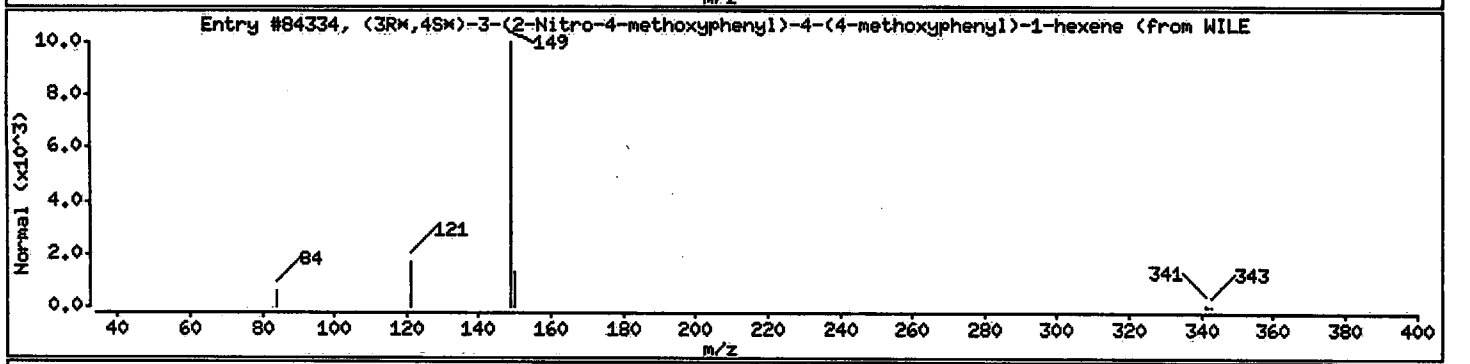
Operator: dce

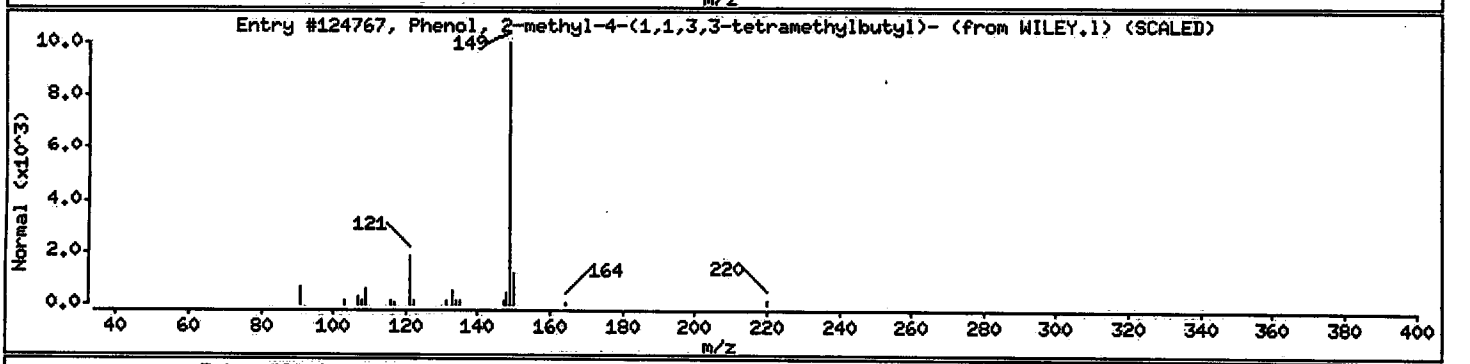
Column phase: ZB-5

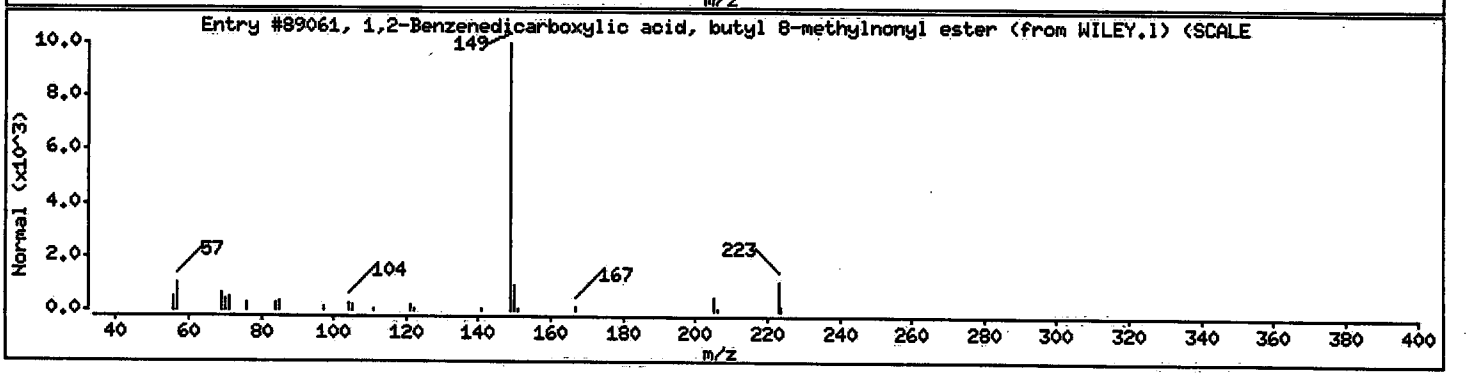
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(3R*,4S*)-3-(2-Nitro-4-methoxyphenyl)-4-	88932-52-9	WILEY.1	84334	47	C20H23NO4	341
Phenol, 2-methyl-4-(1,1,3,3-tetramethylb	2219-84-3	WILEY.1	124767	43	C15H24O	220
1,2-Benzenedicarboxylic acid, butyl 8-me	89-18-9	WILEY.1	89061	38	C22H34O4	362









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

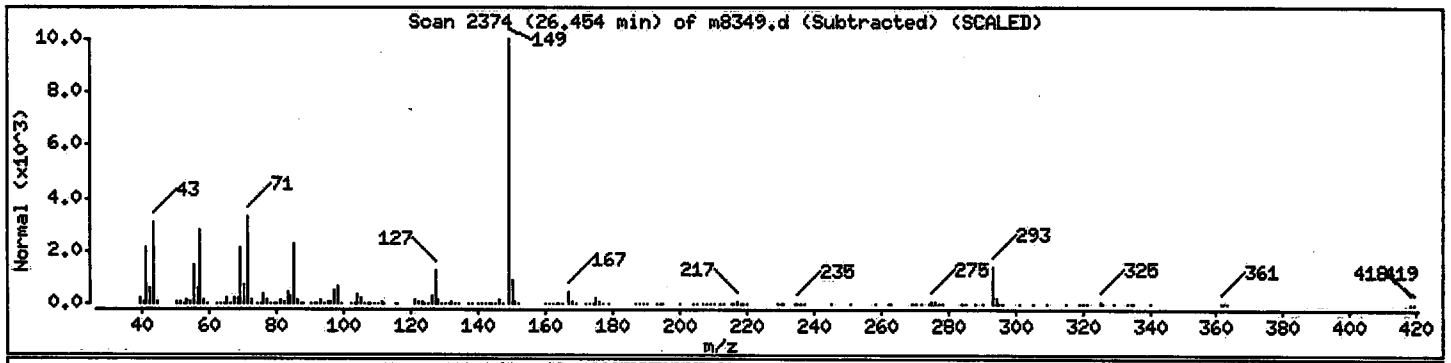
Volume Injected (uL): 2.0

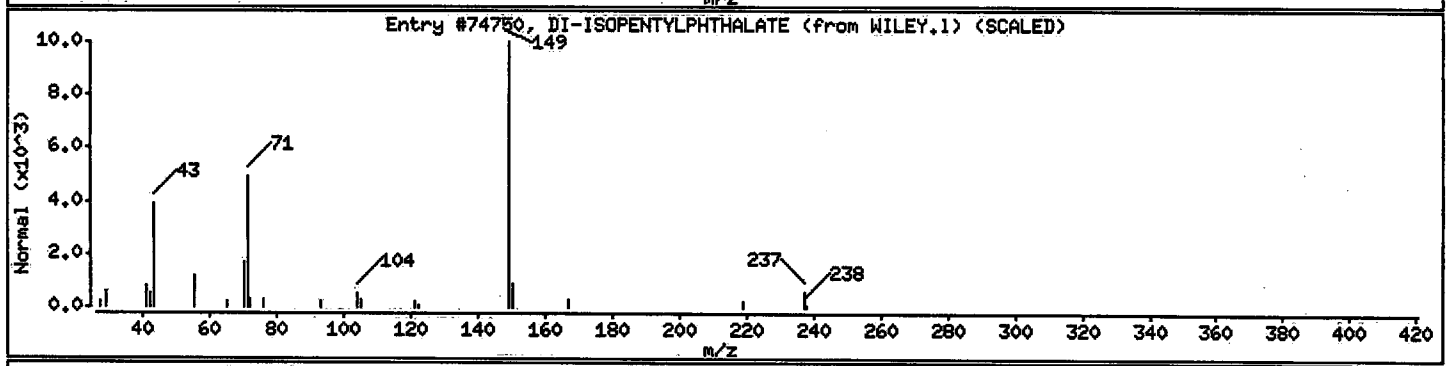
Operator: dce

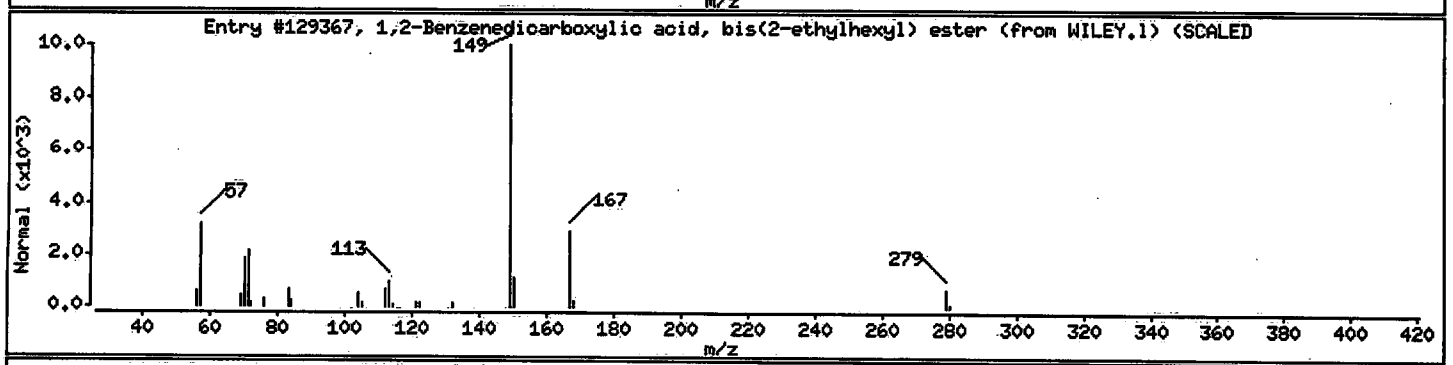
Column phase: ZB-5

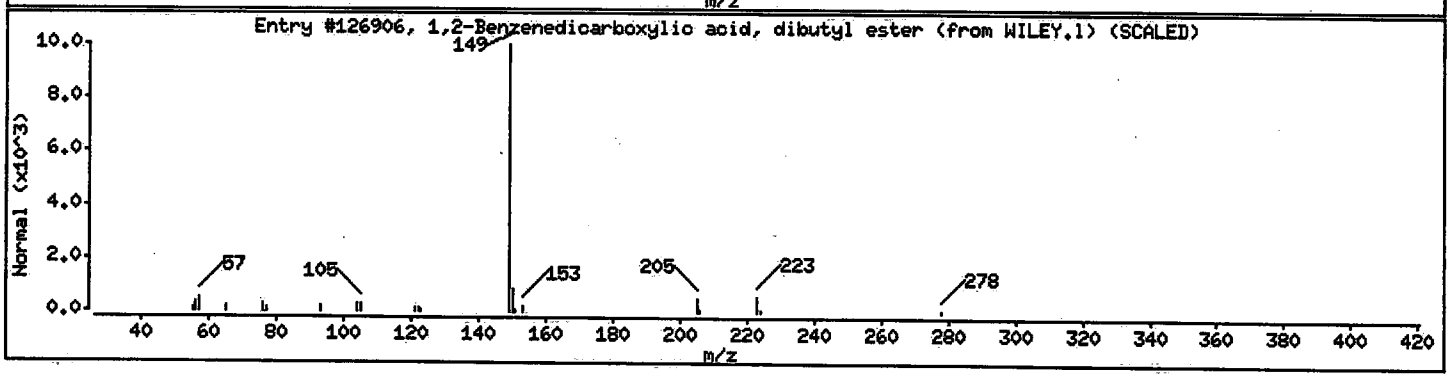
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
DI-ISOPENTYLPHTHALATE	0-00-0	WILEY.1	74750	53	C18H2604	306
1,2-Benzenedicarboxylic acid, bis(2-ethy	117-81-7	WILEY.1	129367	47	C24H3804	390
1,2-Benzenedicarboxylic acid, dibutyl es	84-74-2	WILEY.1	126906	43	C16H2204	278









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

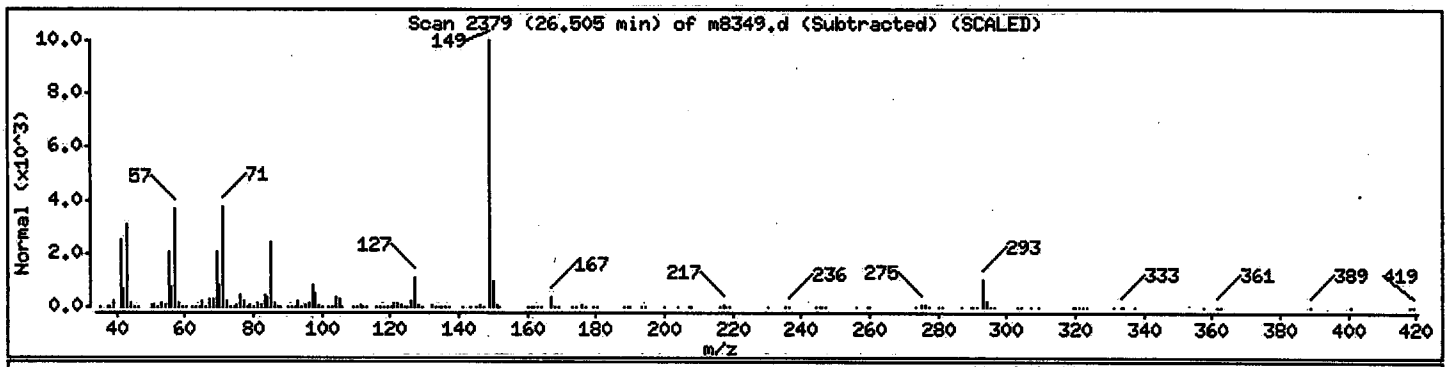
Volume Injected (uL): 2.0

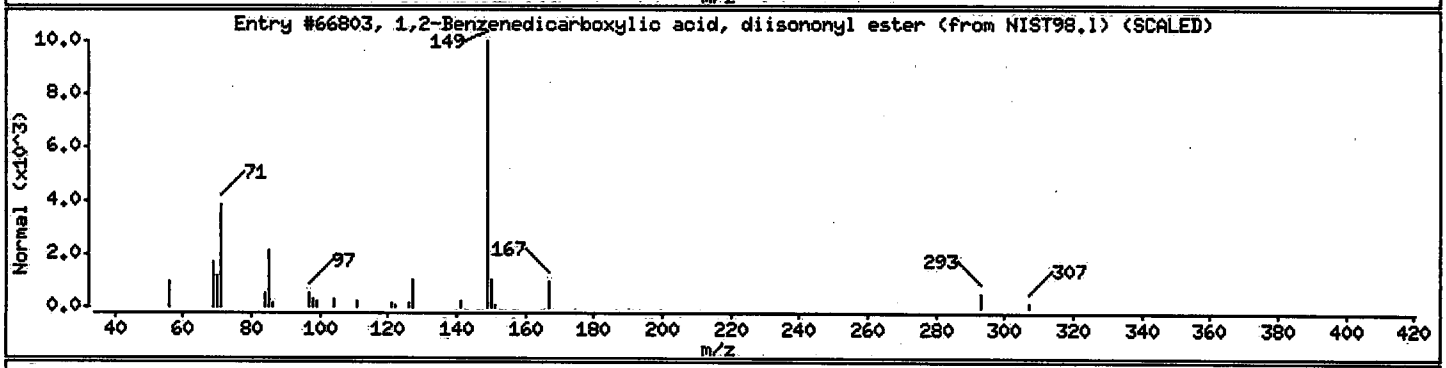
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	72	C26H4204	418





Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

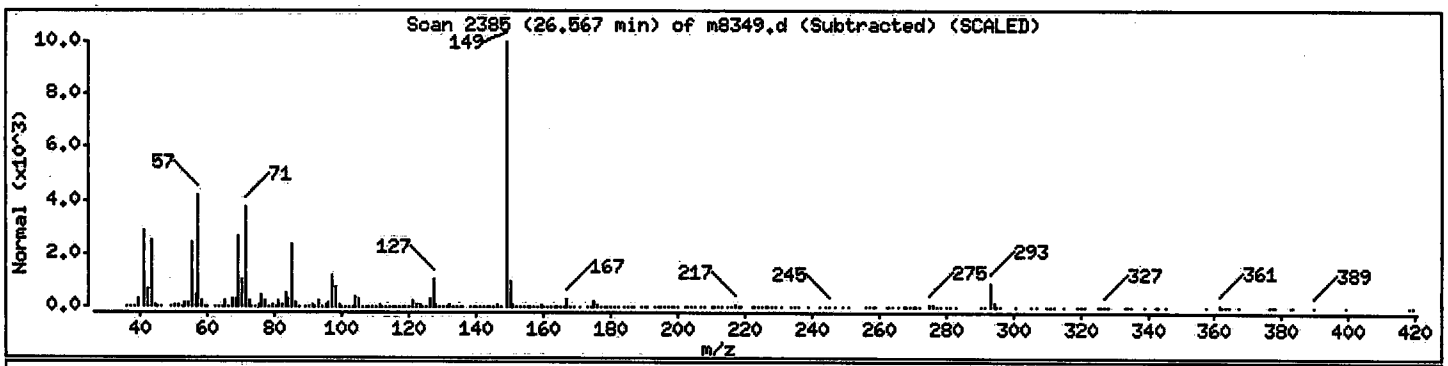
Volume Injected (uL): 2.0

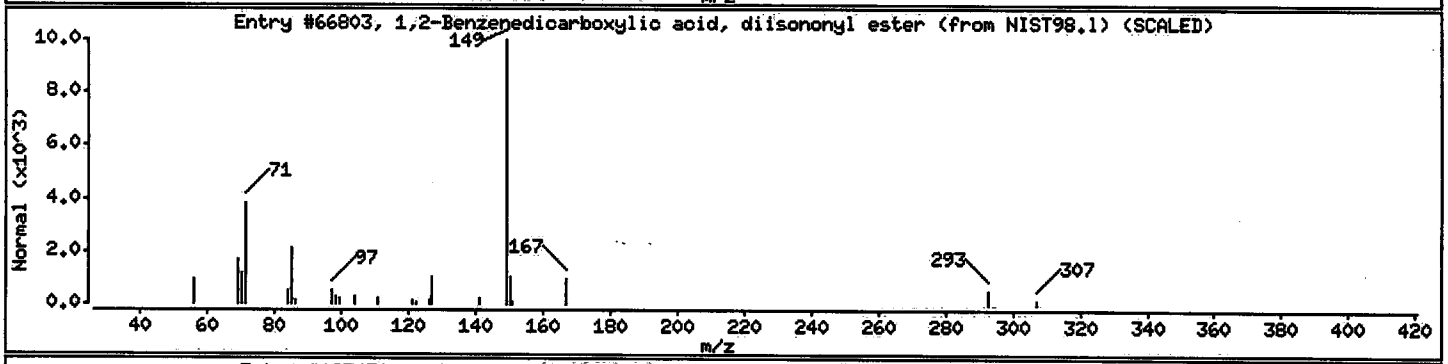
Operator: dce

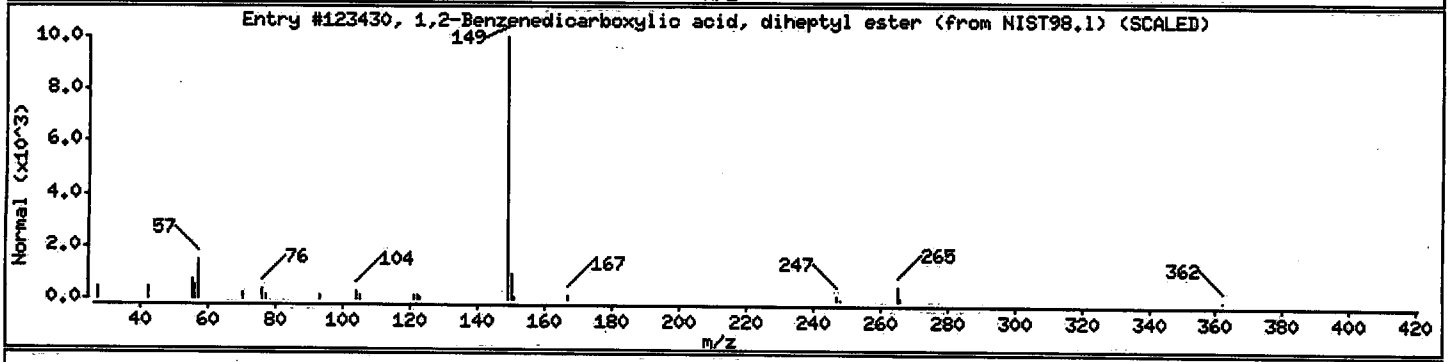
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	86	C26H4204	418
1,2-Benzenedicarboxylic acid, diheptyl e	3648-21-3	NIST98.1	123430	55	C22H3404	362







Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

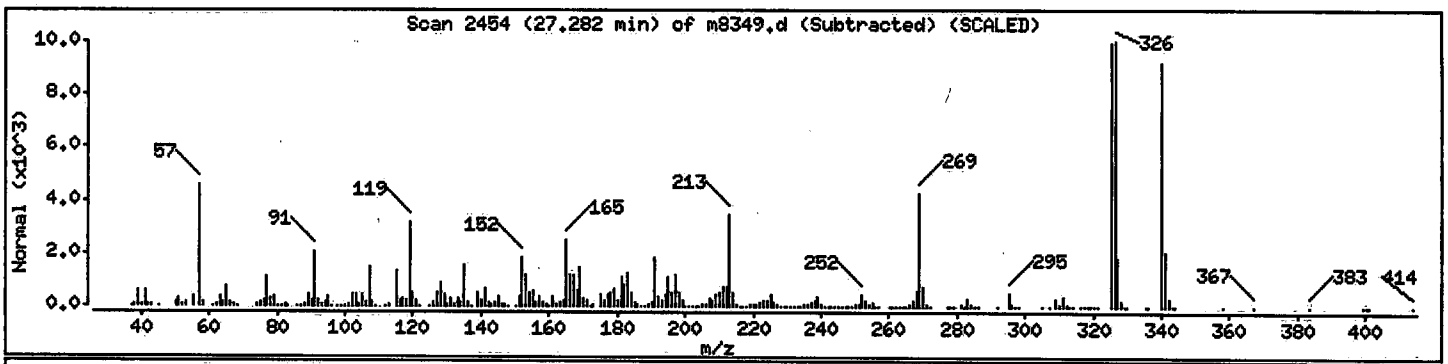
Volume Injected (uL): 2.0

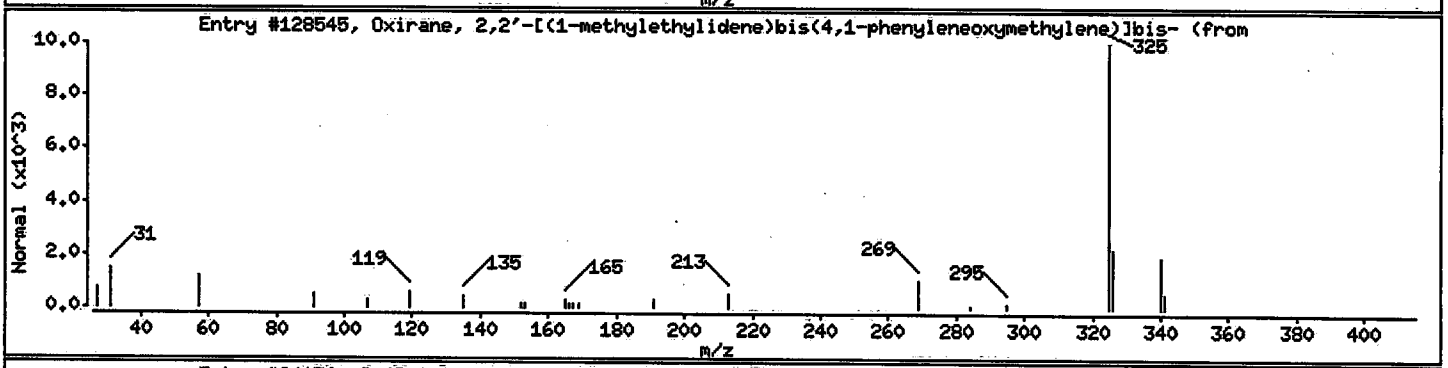
Operator: dce

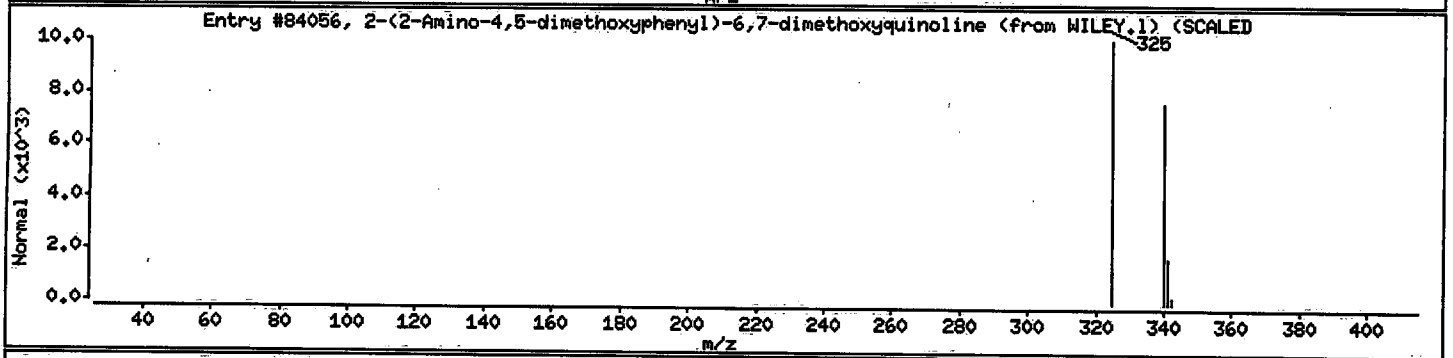
Column phase: ZB-5

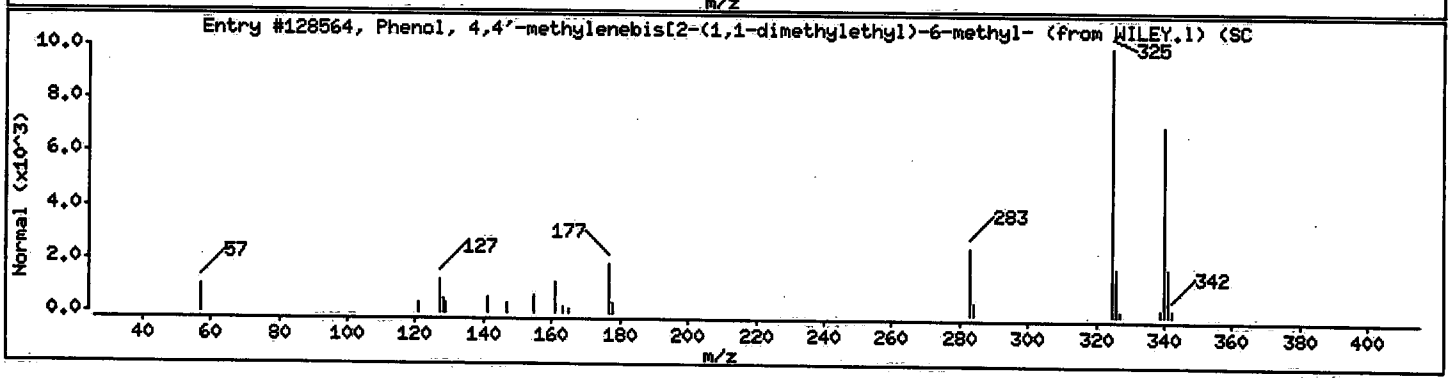
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, 2,2'-[(1-methylethylidene)bis(4	1675-54-3	WILEY.l	128545	70	C21H2404	340
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime	76798-50-0	WILEY.l	84056	50	C19H20N204	340
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	WILEY.l	128564	45	C23H3202	340









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

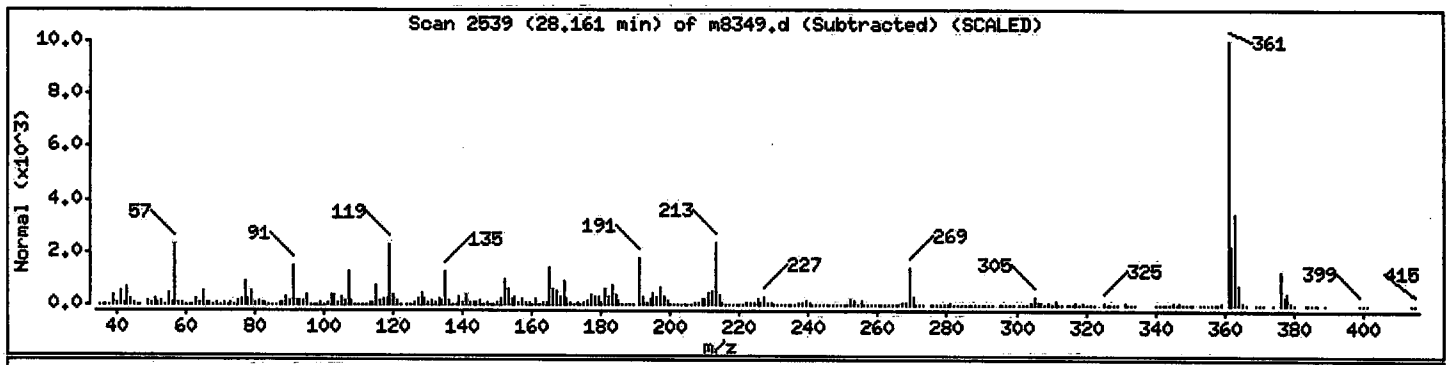
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

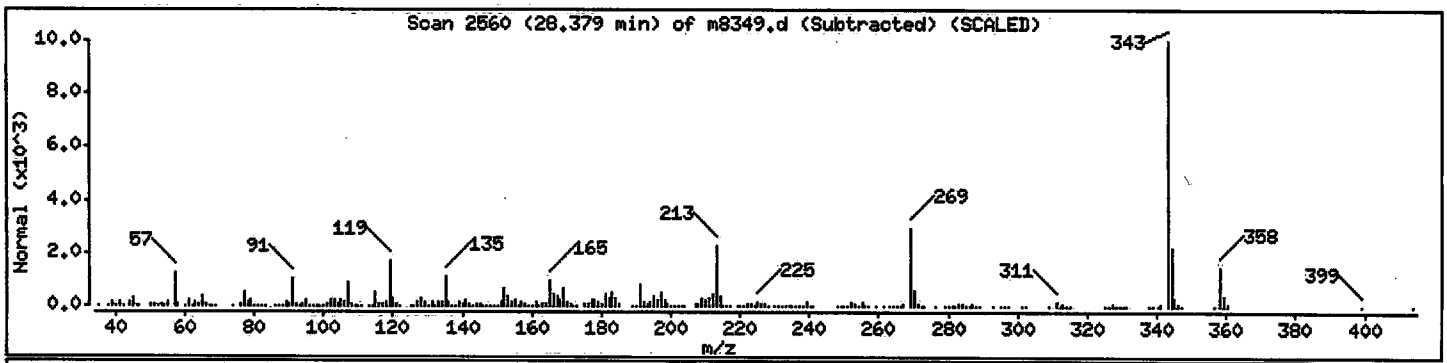
Volume Injected (uL): 2.0

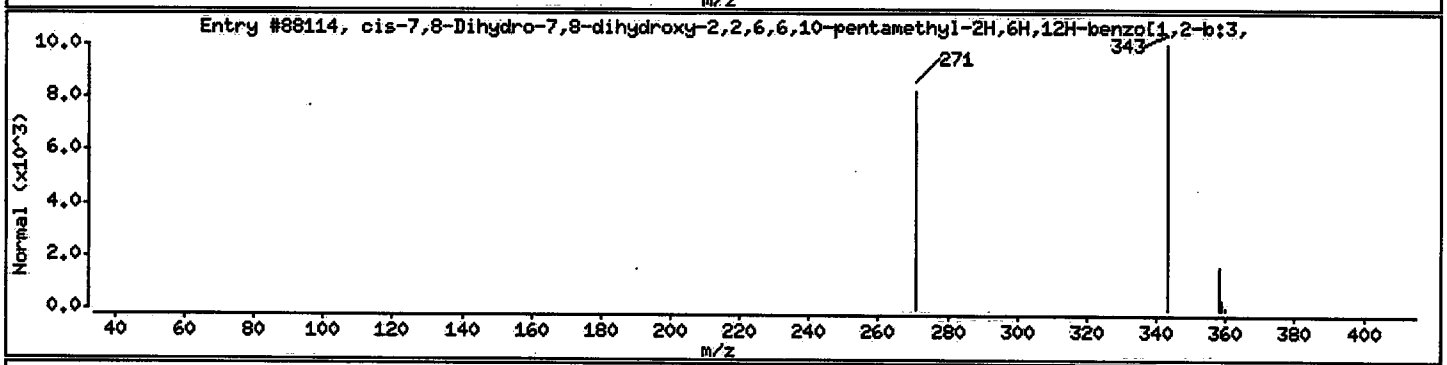
Operator: dce

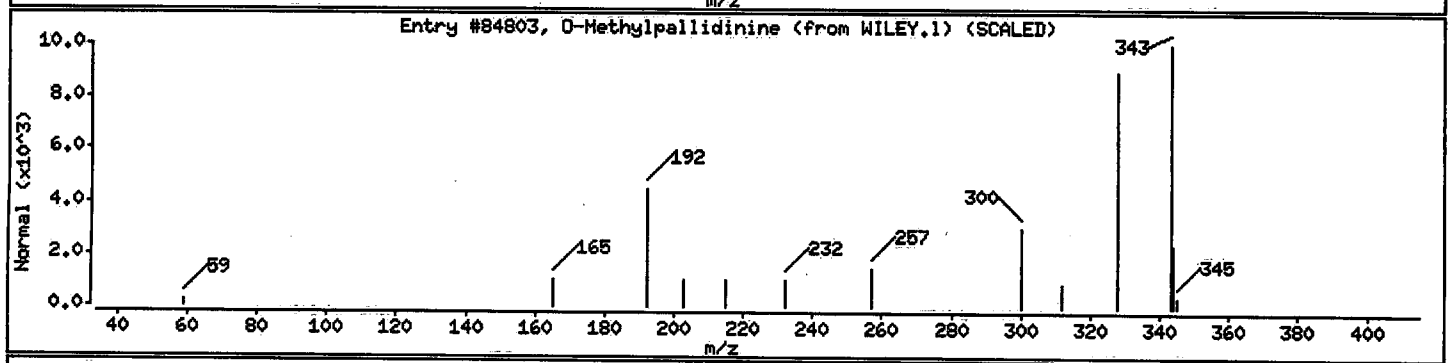
Column phase: ZB-5

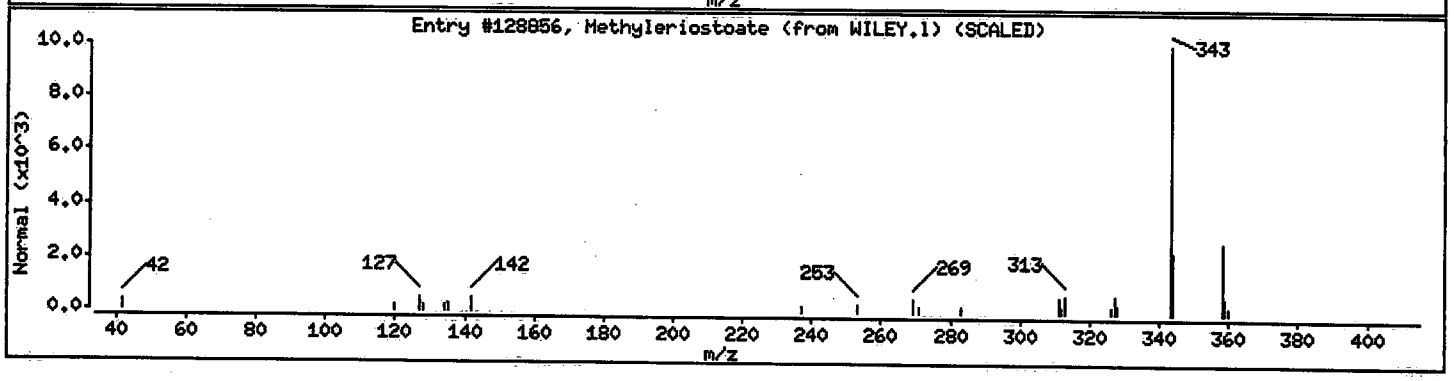
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10	78147-89-4	WILEY.1	88114	50	C20H2206	358
O-Methylpallidinine	77485-12-2	WILEY.1	84803	47	C20H25NO4	343
Methyleriostoate	26574-30-1	WILEY.1	128856	40	C21H2605	358









Data File: /var/chem/molly.i/0307174m1r.b/m8349.d

Date : 17-JUL-2003 16:42

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

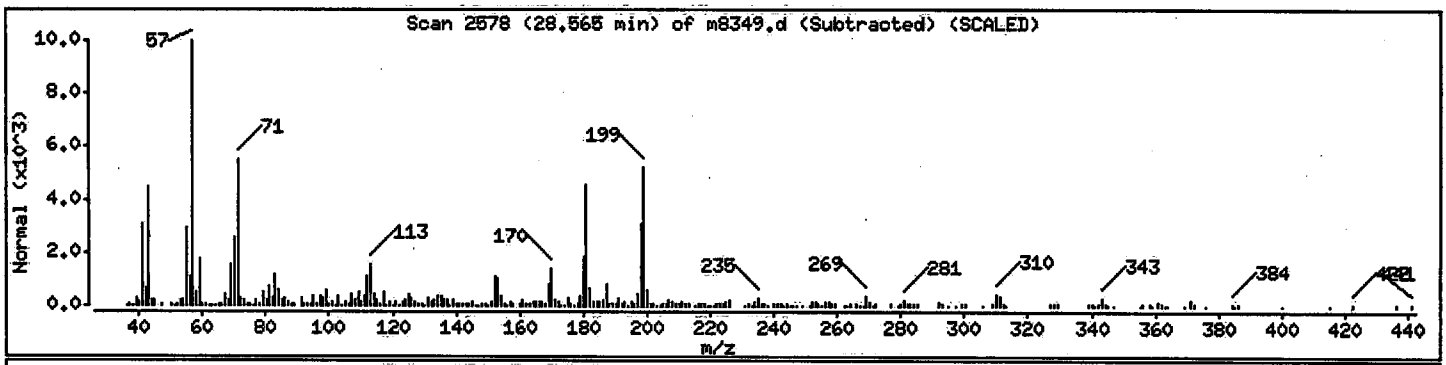
Volume Injected (uL): 2.0

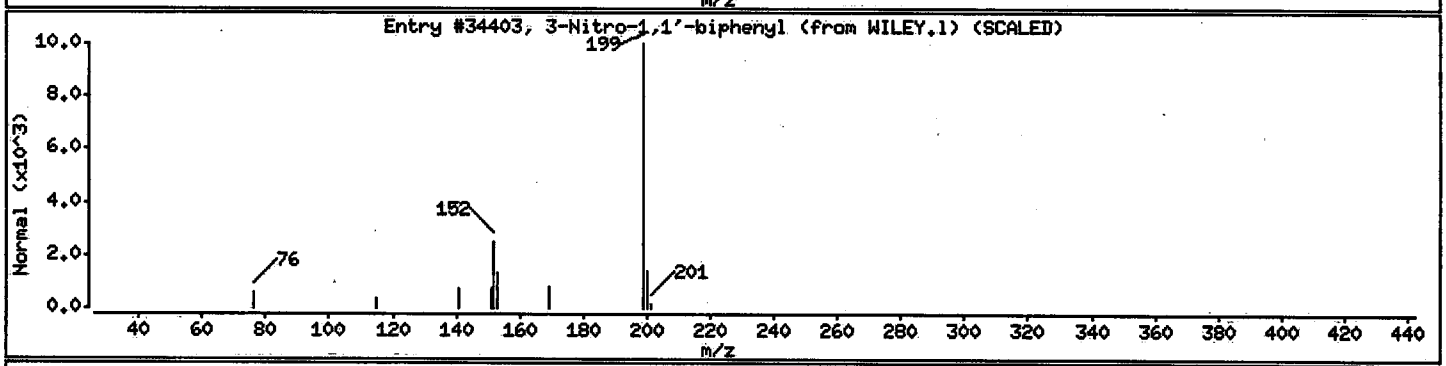
Operator: doe

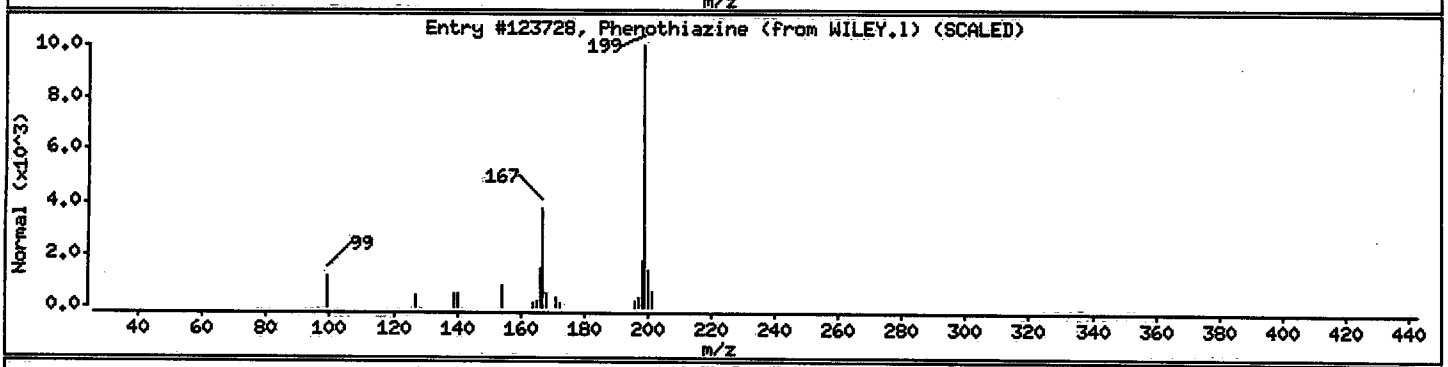
Column phase: ZB-5

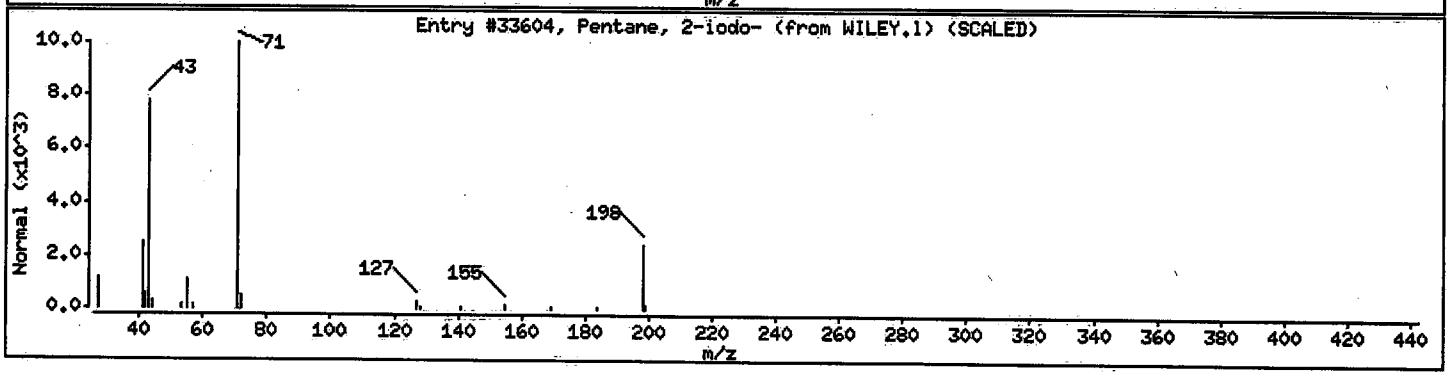
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Nitro-1,1'-biphenyl	0-00-0	WILEY.l	34403	27	C12H9NO2	199
Phenothiazine	92-84-2	WILEY.l	123728	11	C12H9NS	199
Pentane, 2-iodo-	637-97-8	WILEY.l	33604	10	C5H11I	198









Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8349.d
Lab Smp Id: 0307090-05A
Inj Date : 17-JUL-2003 16:42
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05A
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.65000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.562	999990	40.000
* 47 Acenaphthene-d10	16.621	4940237	40.000
* 65 Phenanthrene-d10	19.612	116113873	40.000
* 77 Chrysene-d12	24.891	7037044	40.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.656	72500569	2900.05151	92600	56	NIST98.1	109756	11
Butylated Hydroxytoluene					CAS #: 128-37-0		
16.890	42180157	341.523308	10900	97	NIST98.1	84224	47
Nonadecane					CAS #: 629-92-5		
20.420	33384934	11.5007562	367	93	NIST98.1	112382	65
1-Nonadecene					CAS #: 18435-45-5		
21.372	3.236e+08	111.464316	3560	87	NIST98.1	108523	65
9,10-Dimethylanthracene					CAS #: 781-43-1		
21.858	44530832	15.3404001	490	98	NIST98.1	84600	65
1,1-Cyclohexane diacetic acid					CAS #: 9355-11-7		
22.324	39268094	223.207871	7130	53	NIST98.1	31712	77
BICYCLO(4.1.0)-HEPTANE-2,2,5,5-D4					CAS #: 55937-98-9		
23.038	37490233	213.102147	6810	38	WILEY.1	1581	77
6-(1-Methylhydrazino)isocytosine hemihyd					CAS #: 0-00-0		
23.235	34360652	195.312969	6240	25	WILEY.1	37802	77
1-Propene, 3-ethoxy-2-methyl-					CAS #: 24309-28-2		
23.763	1.936e+08	1100.55346	35200	47	WILEY.1	2080	77
Benzene, 1-ethyl-2,4-dimethyl-					CAS #: 874-41-9		
24.301	29382080	167.013748	5340	38	WILEY.1	8322	77
2-Butanone, 3,3-dimethyl-					CAS #: 75-97-8		
24.984	50209284	285.399829	9120	43	WILEY.1	115465	77
Chloromethaqualone					CAS #: 3166-54-9		
25.191	54378808	309.100258	9880	50	NIST98.1	95864	77
Phenol, 4,4'-methylenebis[2-(1,1-dimethy					CAS #: 96-65-1		
25.926	2.566e+08	1458.81829	46600	55	NIST98.1	101614	77
1,2-Benzenedicarboxylic acid, bis(2-meth					CAS #: 117-82-8		
26.288	35771789	203.334160	6500	41	WILEY.1	127004	77
(3R*,4S*)-3-(2-Nitro-4-methoxyphenyl)-4-					CAS #: 88932-52-9		
26.392	61333442	348.631817	11100	47	WILEY.1	84334	77

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
DI-ISOPENTYLPHTHALATE					CAS #: 0-00-0		
26.454	62820917	357.086928	11400	53	WILEY.1	74750	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.505	72611686	412.739659	13200	72	NIST98.1	66803	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.567	49908063	283.687629	9060	86	NIST98.1	66803	77
Oxirane, 2,2'-[(1-methylethylidene)bis(4					CAS #: 1675-54-3		
27.282	2.430e+09	13812.9918	441000	70	WILEY.1	128545	77
Unknown					CAS #:		
28.161	1.124e+08	638.829751	20400	0		0	77
cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10					CAS #: 78147-89-4		
28.379	41940354	238.397541	7620	50	WILEY.1	88114	77
3-Nitro-1,1'-biphenyl					CAS #: 0-00-0		
28.565	43856547	249.289573	7960	27	WILEY.1	34403	77

USE ORIGINAL ANALYSIS

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** DL **Matrix:** Solid

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1'-Biphenyl	ND		324	6330	µg/Kg	10	7/18/2003 7:06:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	ND		454	6330	µg/Kg	10			
1,2-Dichlorobenzene	ND		533	6330	µg/Kg	10			
1,3-Dichlorobenzene	ND		771	6330	µg/Kg	10			
1,4-Dichlorobenzene	ND		711	6330	µg/Kg	10			
2,2'-Oxybis(1-chloropropane)	ND		477	6330	µg/Kg	10			
2,4,5-Trichlorophenol	ND		427	15900	µg/Kg	10			
2,4,6-Trichlorophenol	ND		550	6330	µg/Kg	10			
2,4-Dichlorophenol	ND		441	6330	µg/Kg	10			
2,4-Dimethylphenol	ND		1220	6330	µg/Kg	10			
2,4-Dinitrophenol	ND		1430	6330	µg/Kg	10			
2,4-Dinitrotoluene	ND		794	6330	µg/Kg	10			
2,6-Dinitrotoluene	ND		495	6330	µg/Kg	10			
2-Chloronaphthalene	ND		410	6330	µg/Kg	10			
2-Chlorophenol	ND		514	6330	µg/Kg	10			
2-Methylnaphthalene	812	J	621	6330	µg/Kg	10			
2-Methylphenol	ND		671	6330	µg/Kg	10			
2-Nitroaniline	ND		663	15900	µg/Kg	10			
2-Nitrophenol	ND		627	6330	µg/Kg	10			
3,3'-Dichlorobenzidine	ND		5750	15900	µg/Kg	10			
3-Nitroaniline	ND		2320	15900	µg/Kg	10			
4,6-Dinitro-2-methylphenol	ND		734	15900	µg/Kg	10			
4-Bromophenyl phenyl ether	ND		518	6330	µg/Kg	10			
4-Chloro-3-methylphenol	ND		705	6330	µg/Kg	10			
4-Chloroaniline	ND		2200	6330	µg/Kg	10			
4-Chlorophenyl phenyl ether	ND		596	6330	µg/Kg	10			
4-Methylphenol	ND		594	6330	µg/Kg	10			
4-Nitroaniline	ND		1730	15900	µg/Kg	10			
4-Nitrophenol	ND		876	15900	µg/Kg	10			
Acenaphthene	ND		491	6330	µg/Kg	10			
Acenaphthylene	ND		435	6330	µg/Kg	10			
Acetophenone	ND		452	6330	µg/Kg	10			
Anthracene	ND		376	6330	µg/Kg	10			
Atrazine	ND		794	6330	µg/Kg	10			
Benz(a)anthracene	ND		598	6330	µg/Kg	10			
Benzaldehyde	ND		3160 UJ	5750	µg/Kg	10			
Benzo(a)pyrene	ND		456	6330	µg/Kg	10			

DL

Definitions:

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DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** DL **Matrix:** Solid

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		836	6330	µg/Kg	10			
Benzo(g,h,i)perylene	ND		1490	6330	µg/Kg	10			
Benzo(k)fluoranthene	ND		1070	6330	µg/Kg	10			
Benzoic acid	ND		1480	UJ 15900	µg/Kg	10			
Benzyl alcohol	ND		721	6330	µg/Kg	10			
Bis(2-chloroethoxy)methane	ND		470	6330	µg/Kg	10			
Bis(2-chloroethyl)ether	ND		489	6330	µg/Kg	10			
Bis(2-ethylhexyl)phthalate	1230	J	740	6330	µg/Kg	10			
Butyl benzyl phthalate	ND		834	6330	µg/Kg	10			
Caprolactam	ND		1310	6330	µg/Kg	10			
Carbazole	ND		654	6330	µg/Kg	10			
Chrysene	ND		521	6330	µg/Kg	10			
Di-n-butyl phthalate	14400		771	6330	µg/Kg	10			
Di-n-octyl phthalate	ND		784	6330	µg/Kg	10			
Dibenz(a,h)anthracene	ND		1760	6330	µg/Kg	10			
Dibenzofuran	ND		341	6330	µg/Kg	10			
Diethyl phthalate	ND		784	6330	µg/Kg	10			
Dimethyl phthalate	ND		381	6330	µg/Kg	10			
Fluoranthene	2570	J	1210	6330	µg/Kg	10			
Fluorene	ND		621	6330	µg/Kg	10			
Hexachlorobenzene	ND		389	6330	µg/Kg	10			
Hexachlorobutadiene	ND		571	6330	µg/Kg	10			
Hexachlorocyclopentadiene	ND		918	UJ 15900	µg/Kg	10			
Hexachloroethane	ND		483	6330	µg/Kg	10			
Indeno(1,2,3-cd)pyrene	ND		1800	6330	µg/Kg	10			
Isophorone	ND		389	6330	µg/Kg	10			
N-Nitrosodi-n-propylamine	ND		579	6330	µg/Kg	10			
N-Nitrosodimethylamine	ND		462	6330	µg/Kg	10			
N-Nitrosodiphenylamine	ND		309	6330	µg/Kg	10			
Naphthalene	ND		590	6330	µg/Kg	10			
Nitrobenzene	ND		495	6330	µg/Kg	10			
Pentachlorophenol	ND		1710	15900	µg/Kg	10			
Phenanthrene	5040	J	537	6330	µg/Kg	10			
Phenol	3320	J	449	6330	µg/Kg	10			
Pyrene	ND		1160	6330	µg/Kg	10			
Surr:2,4,6-Tribromophenol	71			32 - 130	%REC	10	7/18/2003 7:06:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	67			27 - 123	%REC	10			

Definitions:

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N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

USE ORIGINAL DATA

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-05A **Sample Type:** DL **Matrix:** Solid

Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	60			36 - 135	%REC	10			
Surr:Nitrobenzene-d5	75			25 - 122	%REC	10			
Surr:Phenol-d5	75			36 - 128	%REC	10			
Surr:Terphenyl-d14	45	*D		51 - 116	%REC	10			

Definitions:

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USE ORIGINAL DATA

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	Weston Solutions, Inc.	**Client Sample ID:**	BBW-ML-01
Lab Order:	0307090	**Alt. Client ID:**	
Project:	START RFP 3481	**Collection Date:**	7/9/2003 1:45:00 PM
Lab ID:	0307090-05A	**Sample Type:** DL	**Matrix:** SOLID	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C										
1_8270C_3550B_TCL_S										
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.42	94000	NJ	µg/Kg	10	56	7/18/2003 7:06:00 PM	MOLLY_030718A	
39151-19-4	3',5'-Dimethoxyacetophenone	16.37	5100	NJ	µg/Kg	10	78			
128-37-0	Butylated Hydroxytoluene	16.82	15000	NJ	µg/Kg	10	98			
629-92-5	Nonadecane	20.35	4400	NJ	µg/Kg	10	92			
1138-52-9	Phenol, 3,5-bis(1,1-dimethylethyl)-	21.19	3900	NJ	µg/Kg	10	53			
2461-18-9	Oxirane, ((dodecyloxy)methyl)-	21.25	4800	NJ	µg/Kg	10	49			
629-94-7	Heneicosane	21.96	1600	NJ	µg/Kg	10	93			
591-48-0	Cyclohexene, 3-methyl-	22.23	20000	NJ	µg/Kg	10	43			
0-00-0	Bis(4-isocyanatocyclohexyl)methane	22.37	29000	NJ	µg/Kg	10	50			
24309-28-2	1-Propene, 3-ethoxy-2-methyl-	23.64	9000	NJ	µg/Kg	10	47			
26920-03-6	Abieta-8,11,13-trien-7-one	24.21	12000	NJ	µg/Kg	10	45			
2038-03-1	4-Morpholineethanamine	24.91	7900	NJ	µg/Kg	10	35			
96-65-1	Phenol, 4,4'-methylenebis(2-(1,1-dimethy	25.81	130000	NJ	µg/Kg	10	55			
	Unknown	27.93	1700	J	µg/Kg	10	0			

Number TICs Found: 14

Definitions:

* - Recovery outside QC limits
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ND - Not Detected at the Reporting Limit
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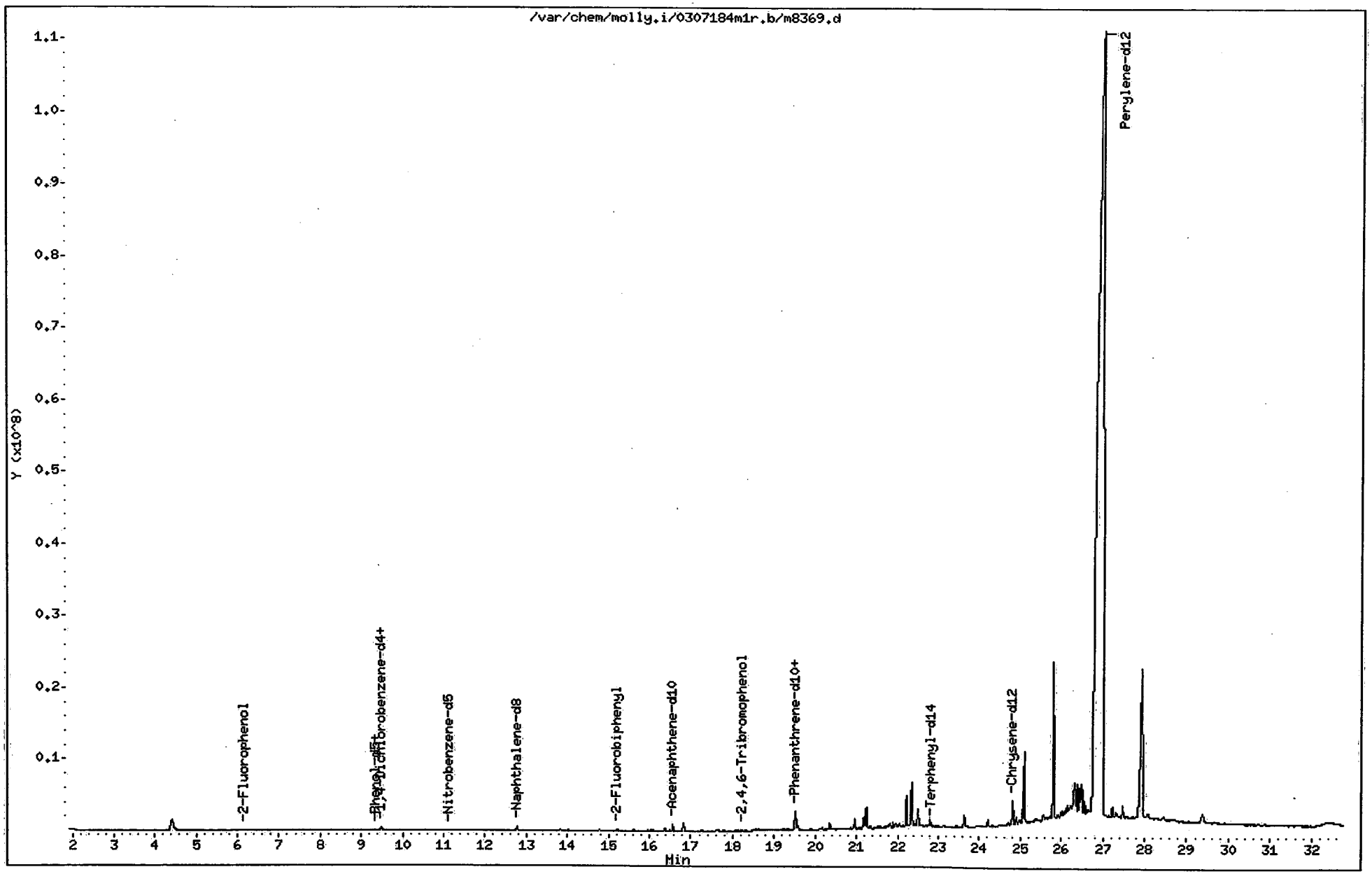
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Data File: /var/chem/molly.i/0307184m1r.b/m8369.d
Date : 18-JUL-2003 19:06
Client ID:
Sample Info: 0307090-05A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8369.d
Lab Smp Id: 0307090-05A
Inj Date : 18-JUL-2003 19:06
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05A
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.65000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	6.167	5.995	(0.649)	29298	7.22287	231(aR)
$ 6 Phenol-d5	99	9.345	9.121	(0.984)	52410	8.98118	287(aR)
7 Phenol	94	9.500	9.162	(1.000)	68470	10.4056	3320(MH) MEJ 7/21/03
* 11 1,4-Dichlorobenzene-d4	152	9.500	9.494	(1.000)	128798	40.0000	
$ 21 Nitrobenzene-d5	82	11.146	11.129	(0.872)	46788	7.48440	239(aR)
* 30 Naphthalene-d8	136	12.781	12.775	(1.000)	459712	40.0000	
36 2-Methylnaphthalene	141	14.364	14.369	(1.124)	20178	2.54284	812(a)
$ 40 2-Fluorobiphenyl	172	15.224	15.228	(0.919)	65552	6.68194	213(aR)
* 47 Acenaphthene-d10	164	16.569	16.563	(1.000)	289700	40.0000	
54 Diethyl phthalate	149	17.645	17.650	(1.065)	30306	2.39856	766(a) < MDL KK 7/22/03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 60 2,4,6-Tribromophenol	330	18.235	18.219	(1.101)	11257	8.49797	272(aR)
* 65 Phenanthrene-d10	188	19.540	19.544	(1.000)	588102	40.0000	
66 Phenanthrene	178	19.591	19.585	(1.003)	272289	15.7772	5040
69 Di-n-butyl phthalate	149	20.958	20.951	(1.073)	997742	44.9807	14400
70 Fluoranthene	202	22.003	21.997	(1.126)	169572	8.04540	2570(a)
72 Pyrene	202	22.438	22.431	(0.904)	146938	2.76734	884(a)
$ 73 Terphenyl-d14	244	22.841	22.835	(0.920)	151017	4.51998	144(aR)
* 77 Chrysene-d12	240	24.818	24.812	(1.000)	1925663	40.0000	
79 Bis(2-ethylhexyl)phthalate	149	25.056	25.040	(1.010)	154642	3.84133	1230(a)
* 84 Perylene-d12	264	26.961	26.944	(1.000)	2032040	40.0000	

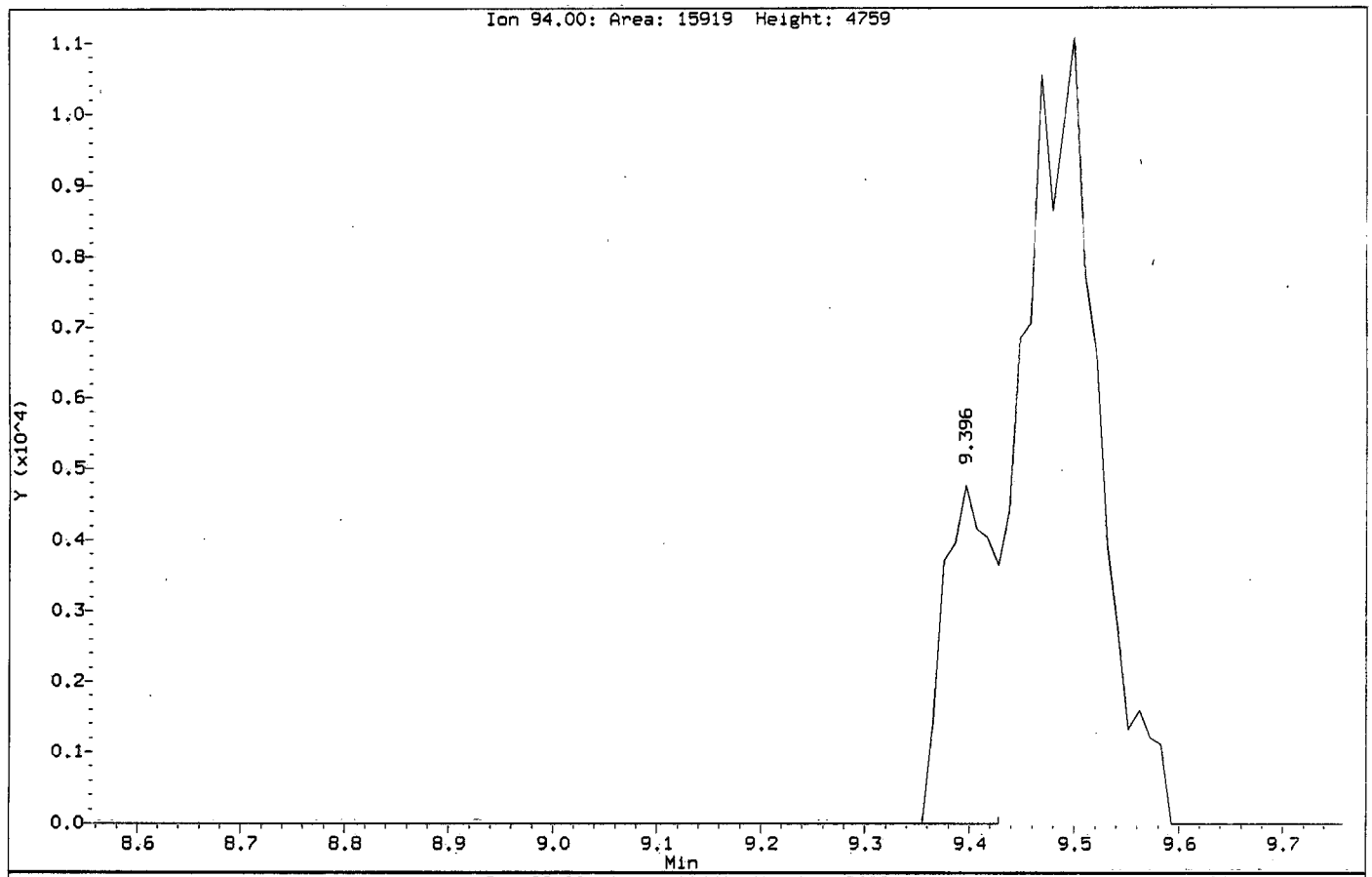
MOL KK 7/22/03

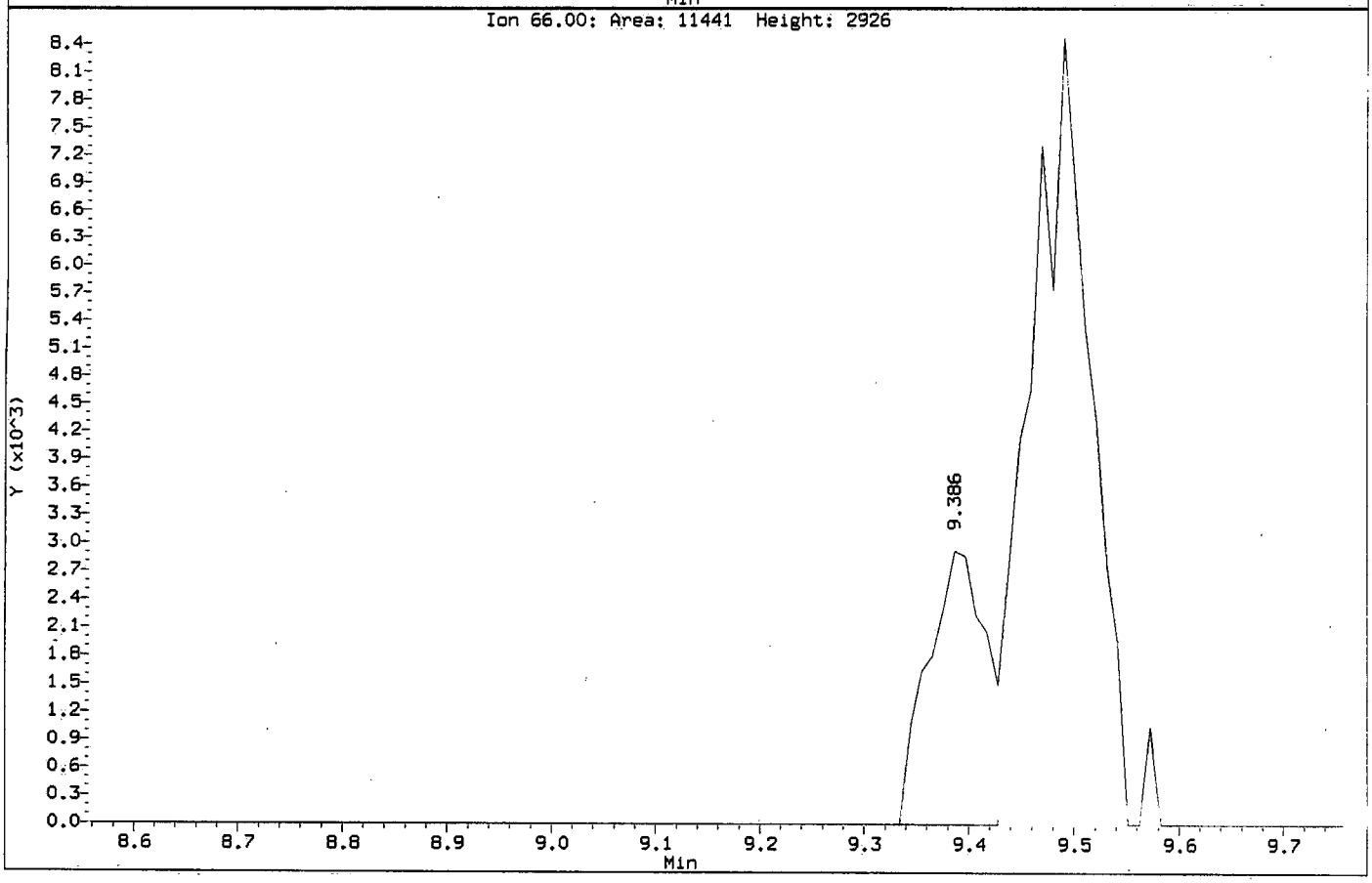
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8369.d
Injection Date: 18-JUL-2003 19:06
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

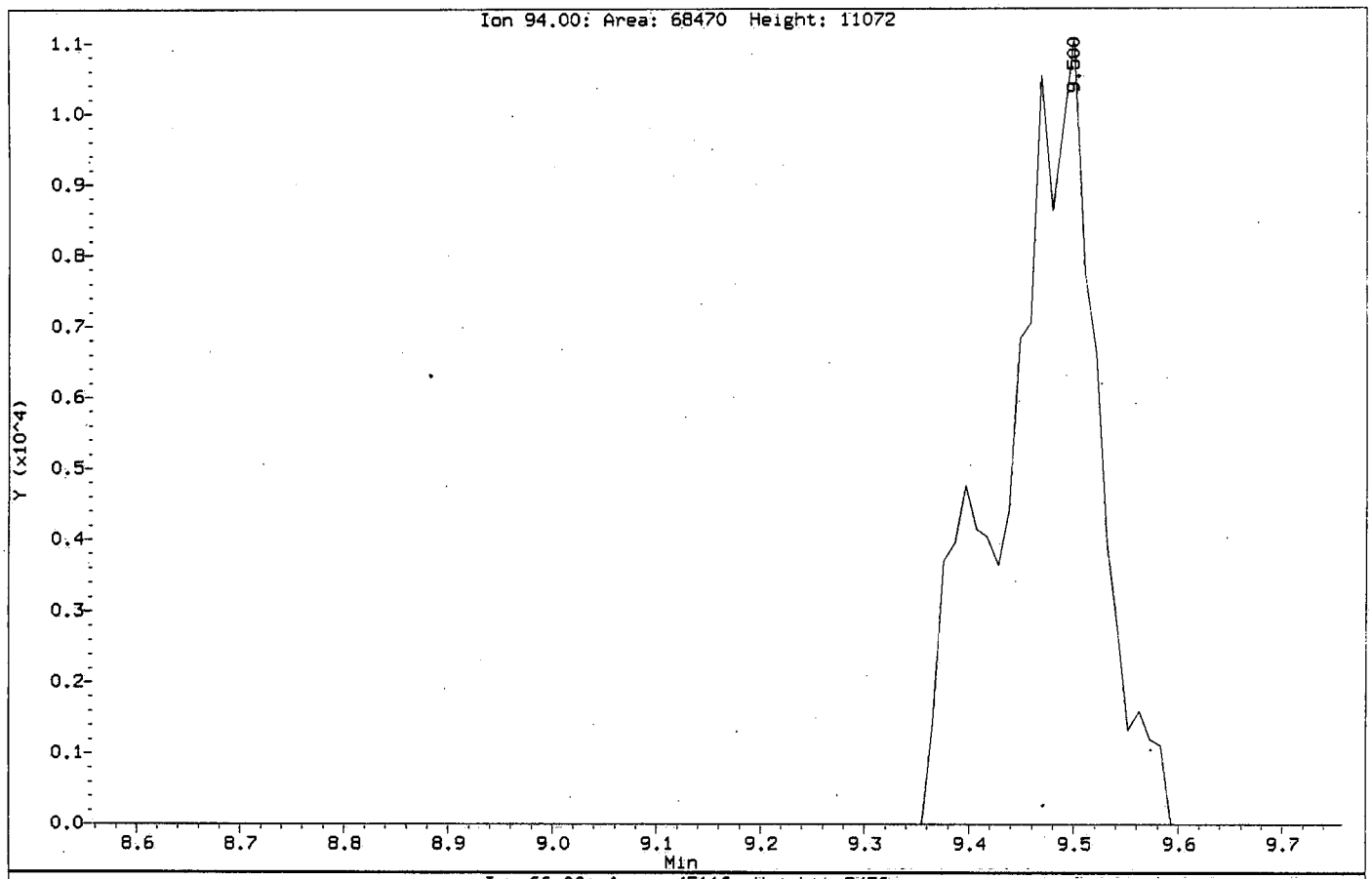


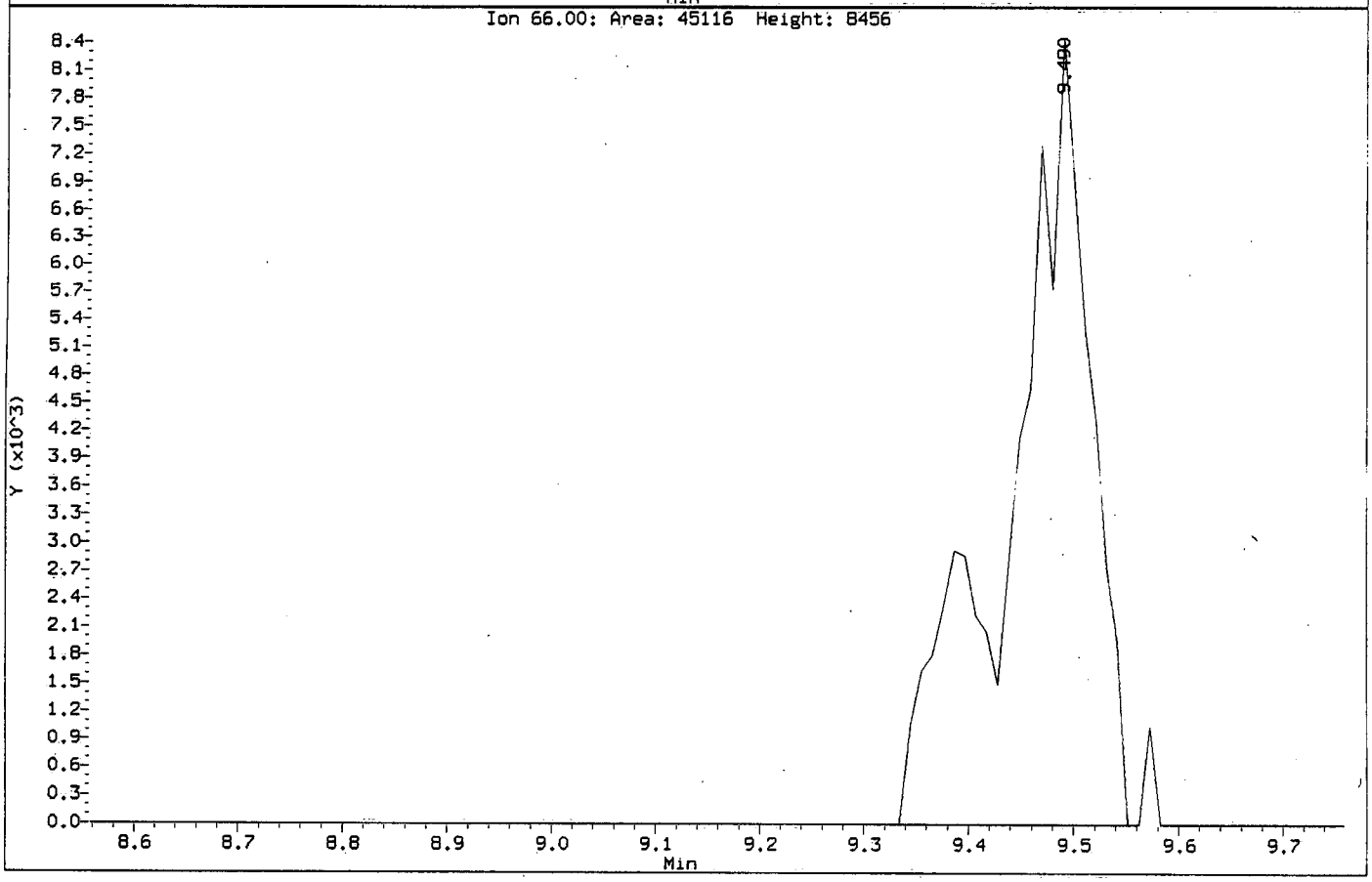


Data File: /var/chem/molly.i/0307184m1r.b/m8369.d
Injection Date: 18-JUL-2003 19:06
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

MR 7/21/03
integrate entire area
Kathy Kuhnt 7/21/03





Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

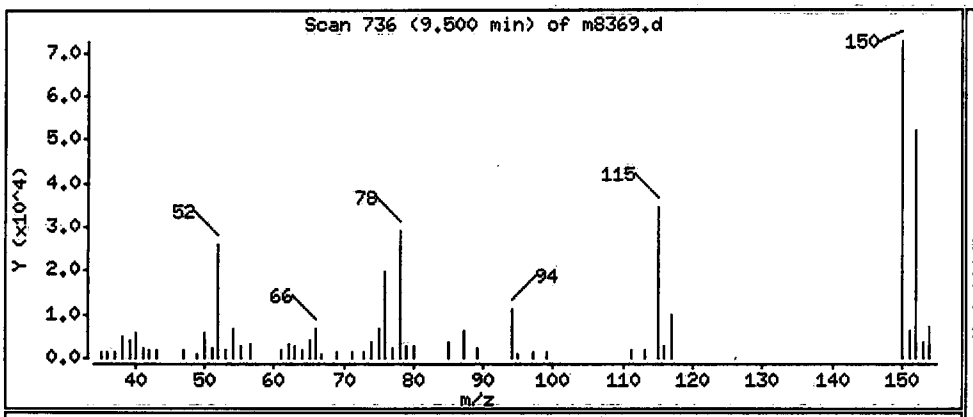
Operator: dce

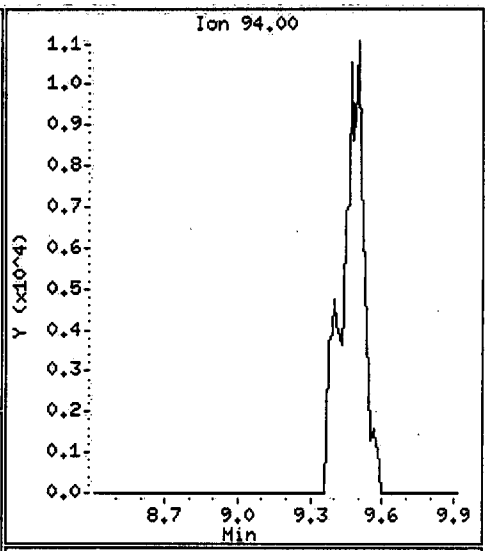
Column phase: ZB-5

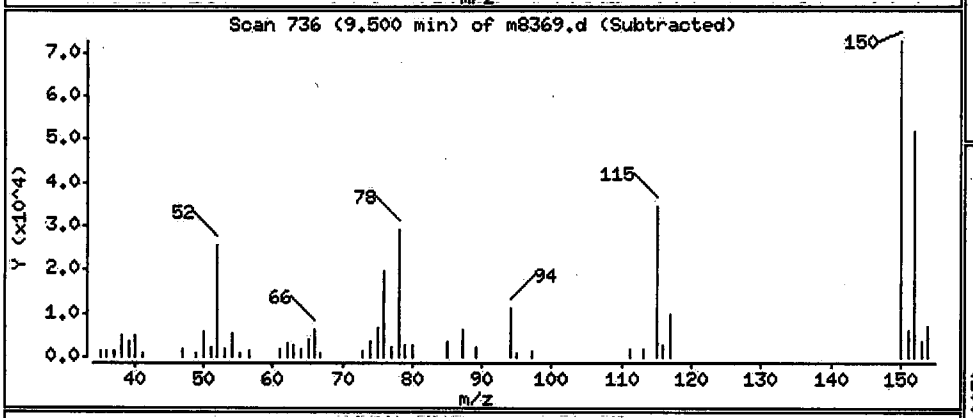
Column diameter: 0.25

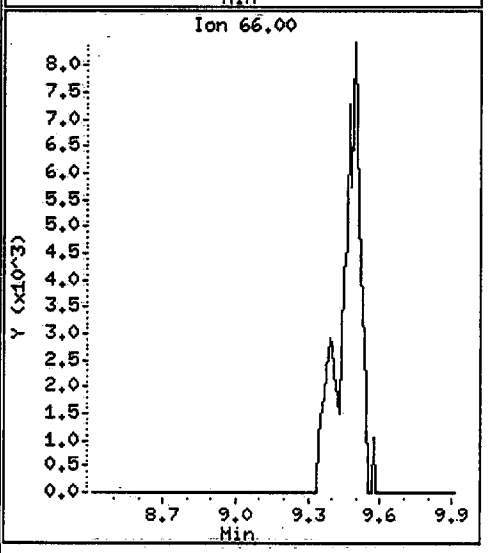
7 Phenol

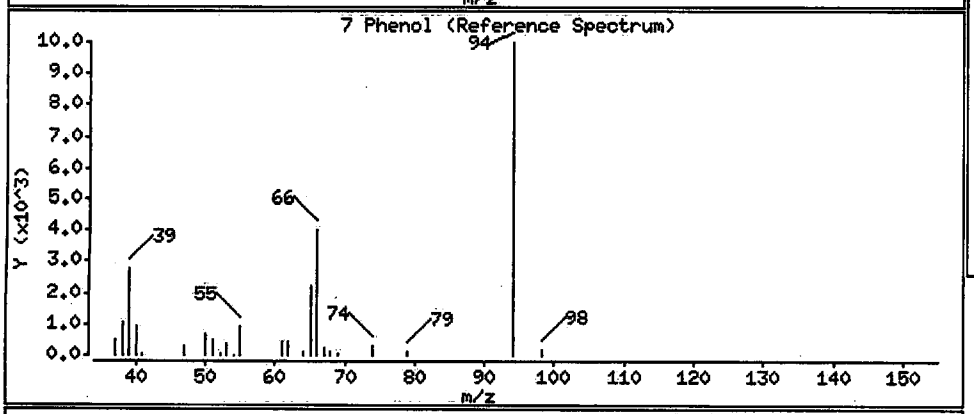
Concentration: 3320 ug/Kg

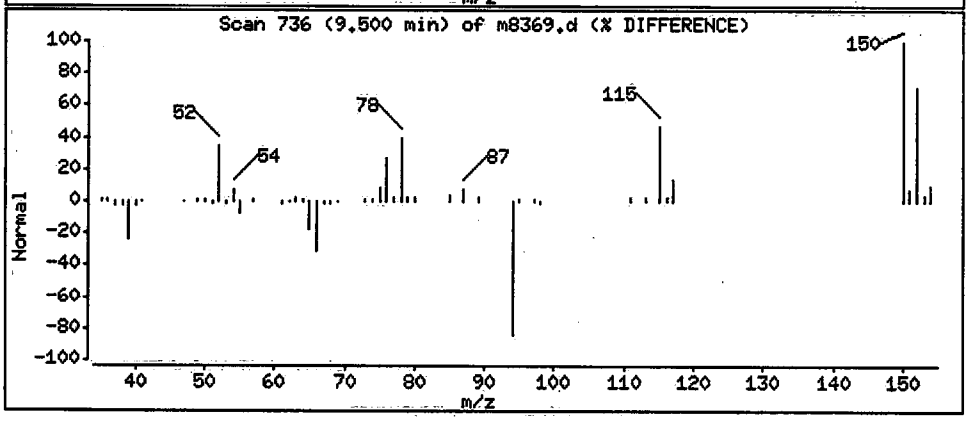












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

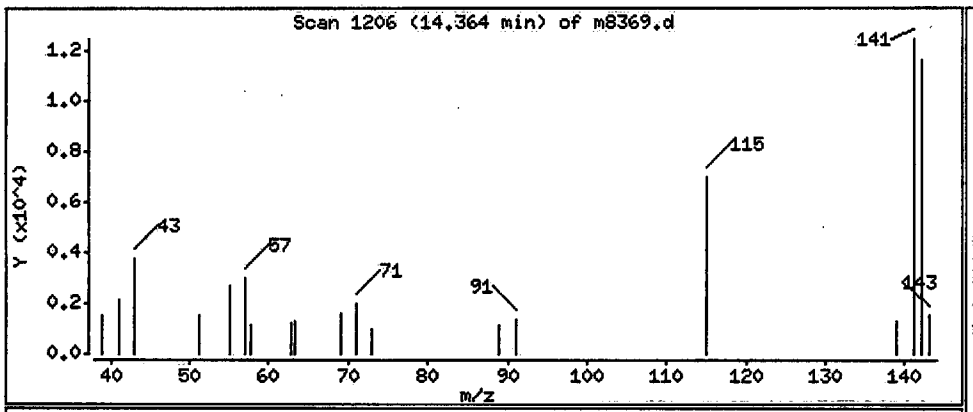
Operator: dce

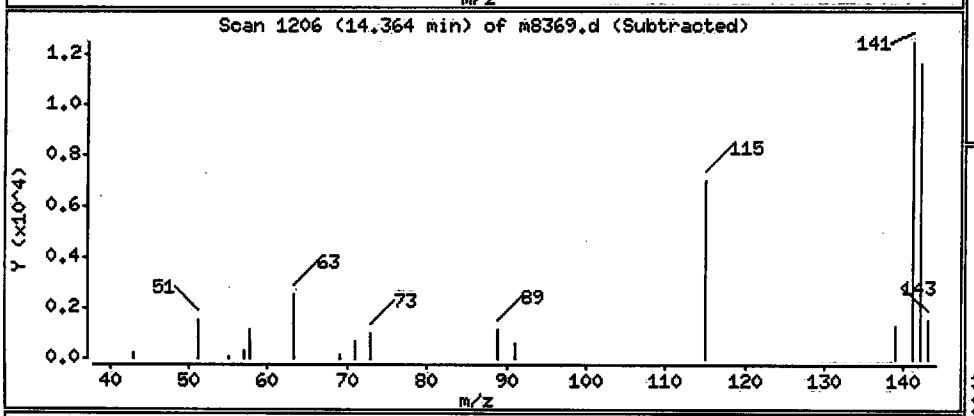
Column phase: ZB-5

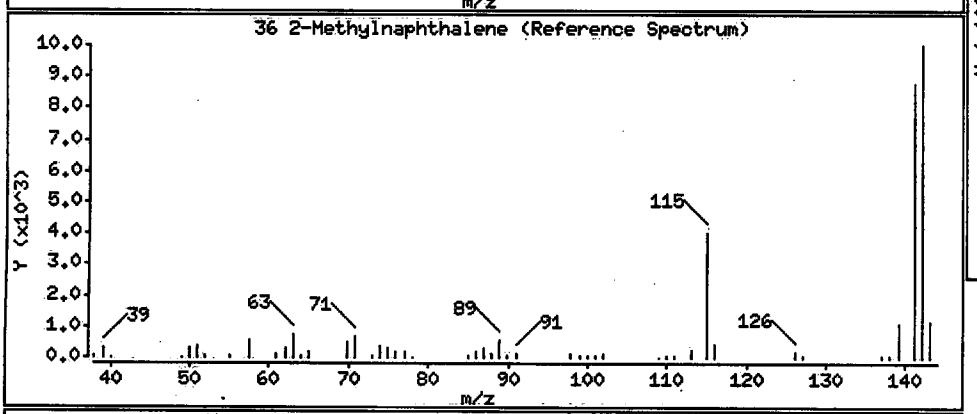
Column diameter: 0.25

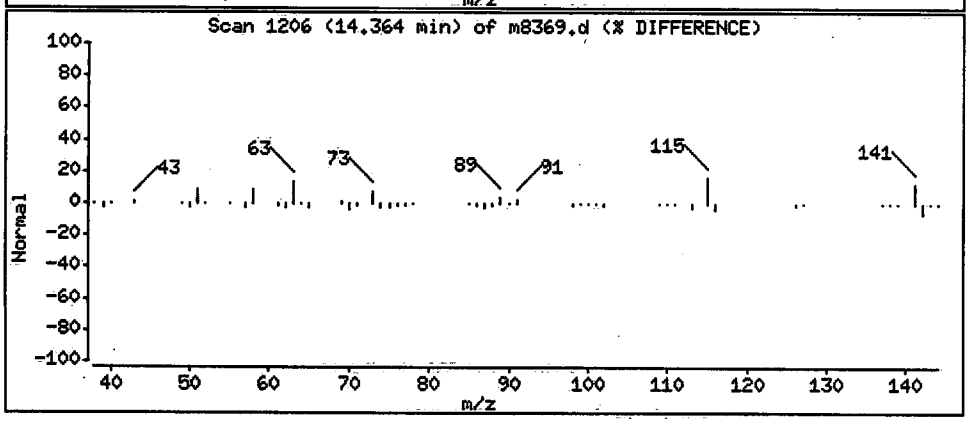
36 2-Methylnaphthalene

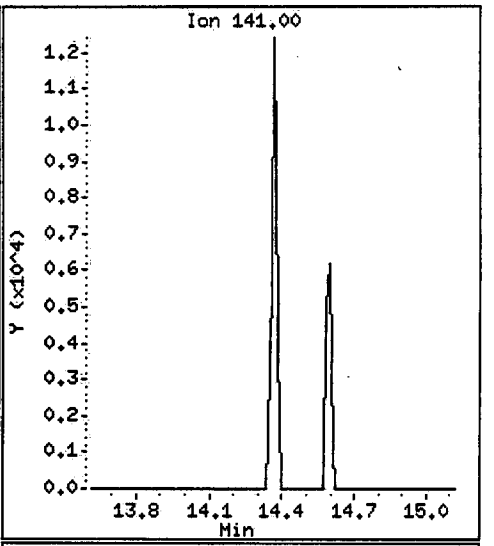
Concentration: 812 ug/Kg

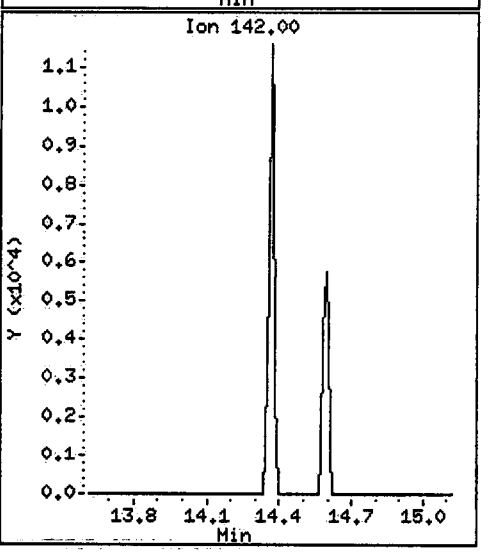












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

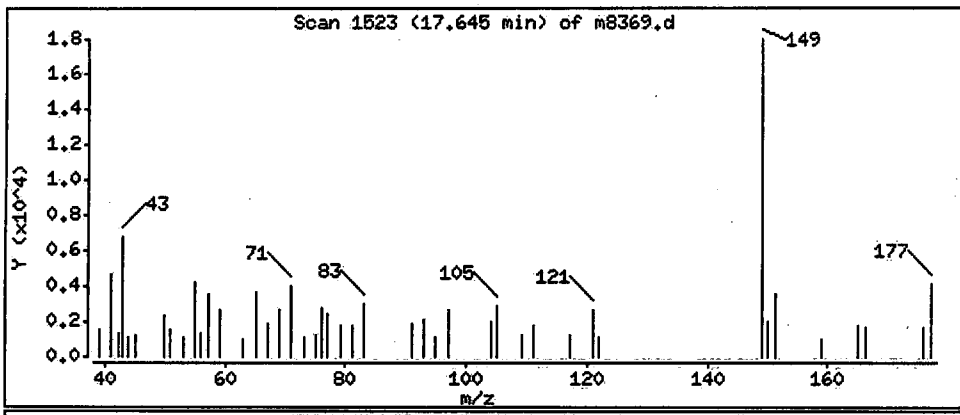
Operator: dce

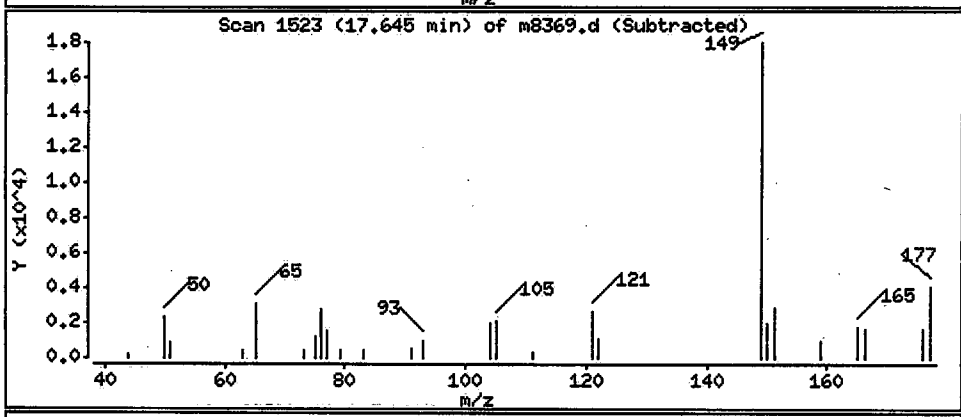
Column phase: ZB-5

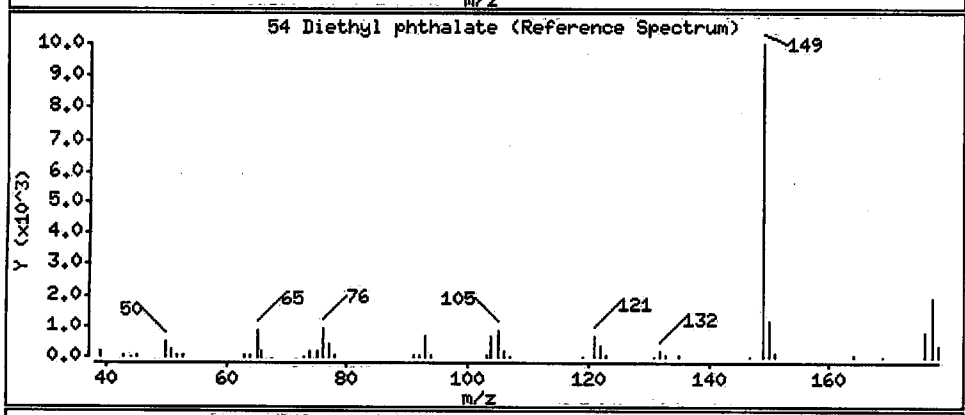
Column diameter: 0.25

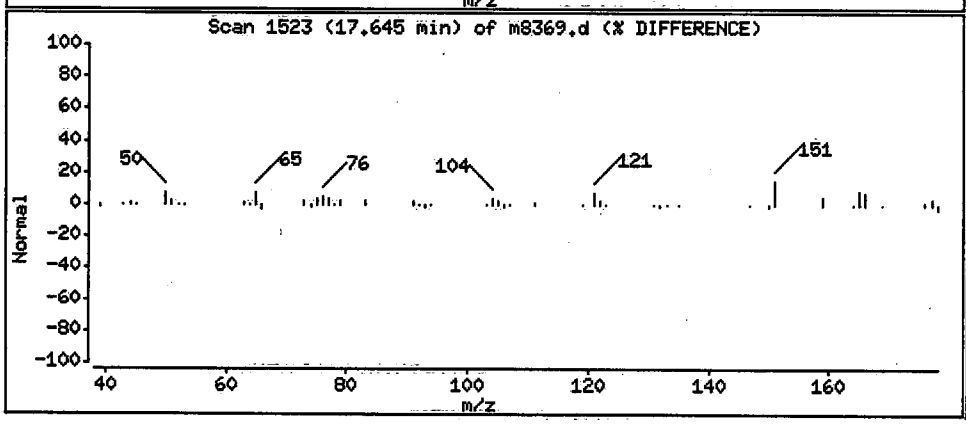
54 Diethyl phthalate

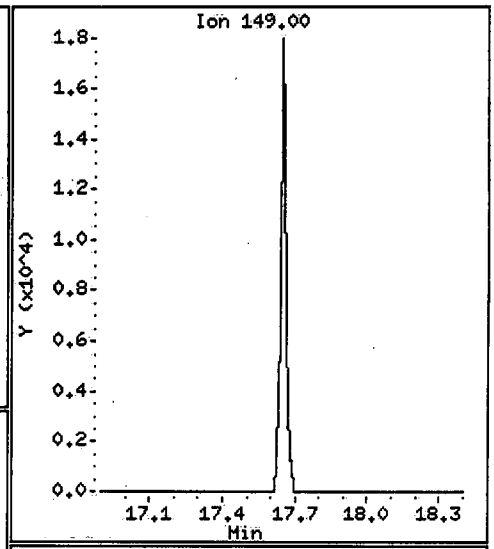
Concentration: 766 ug/Kg

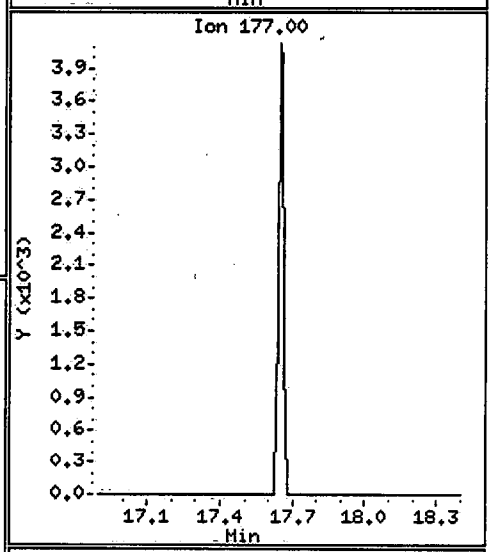


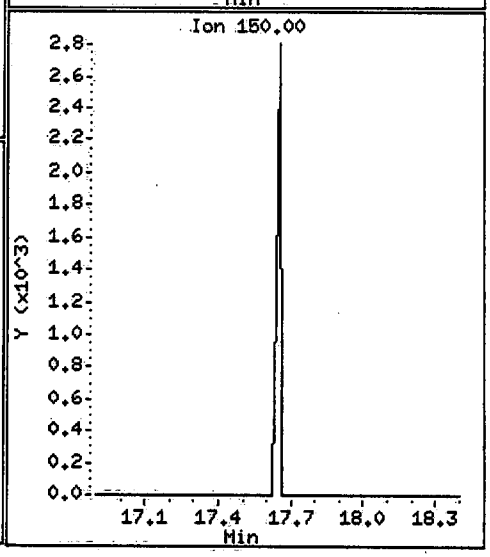












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

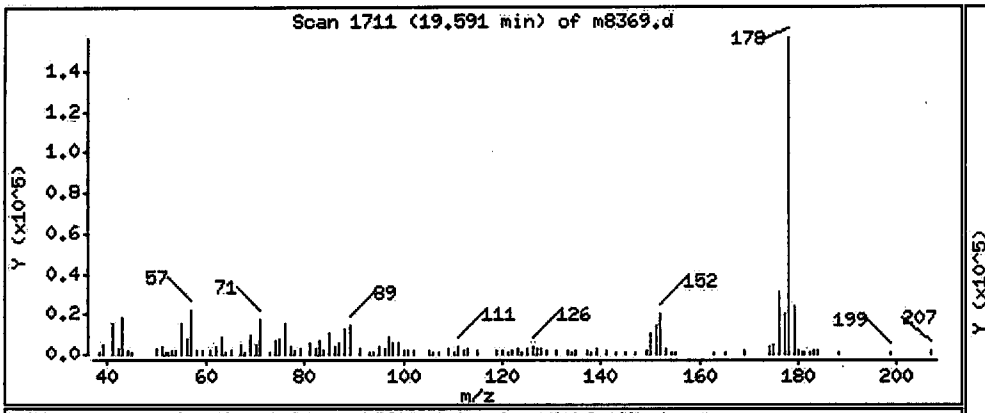
Operator: dce

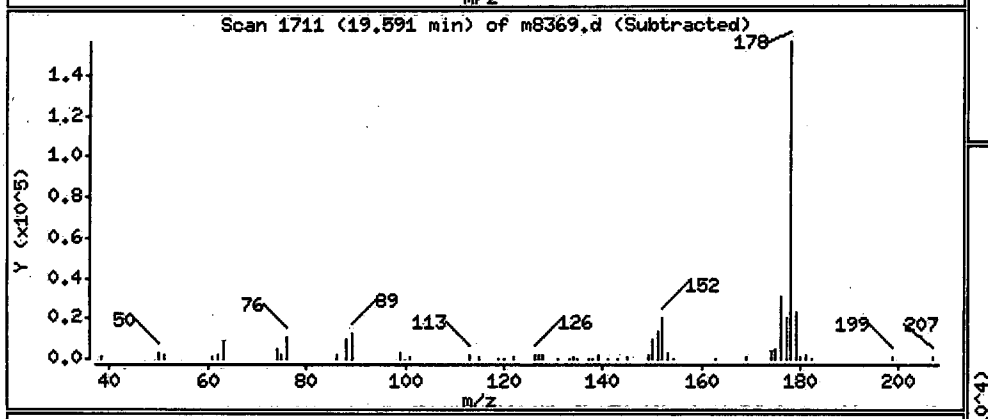
Column phase: ZB-5

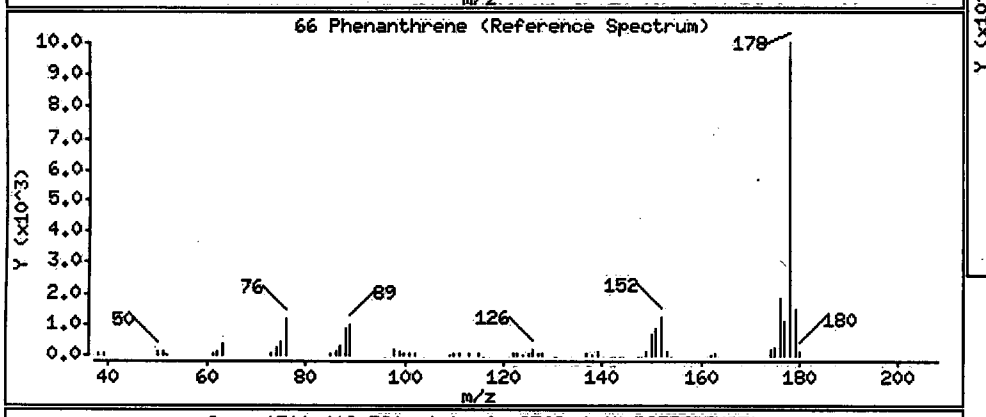
Column diameter: 0.25

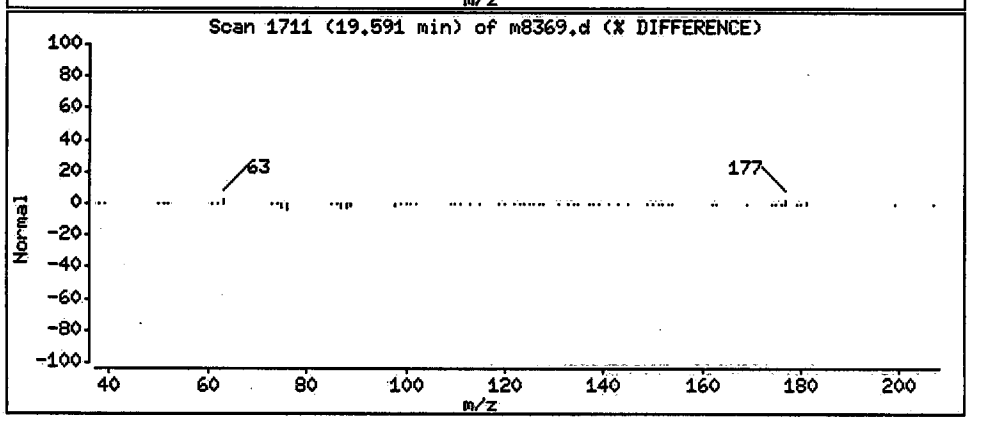
66 Phenanthrene

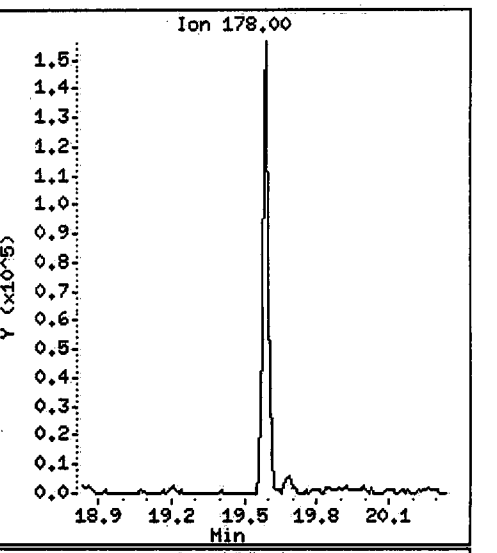
Concentration: 5040 ug/Kg

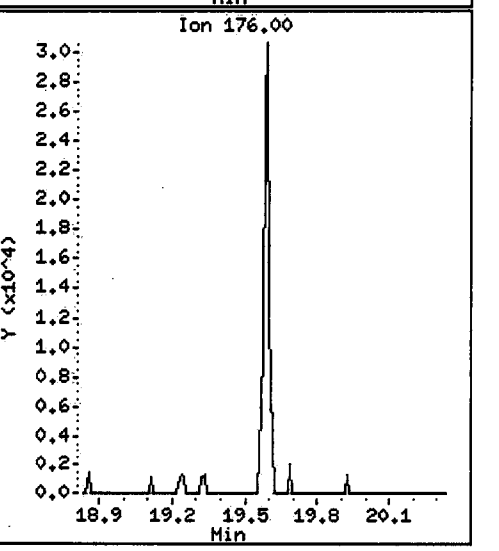












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

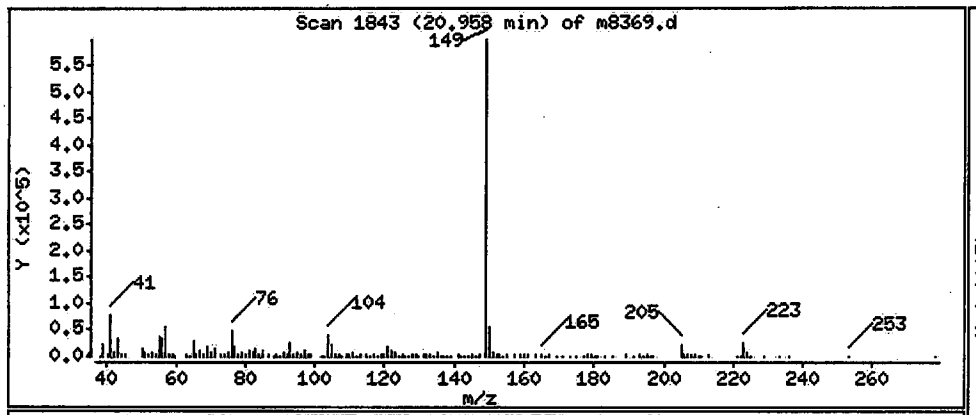
Operator: dce

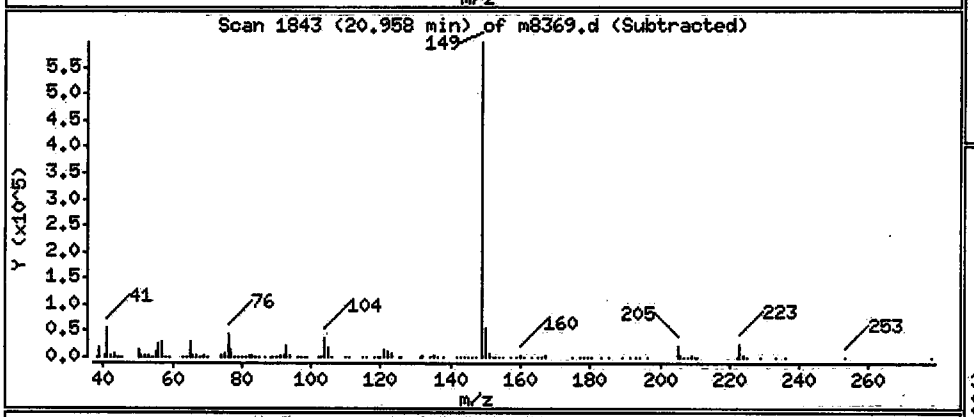
Column phase: ZB-5

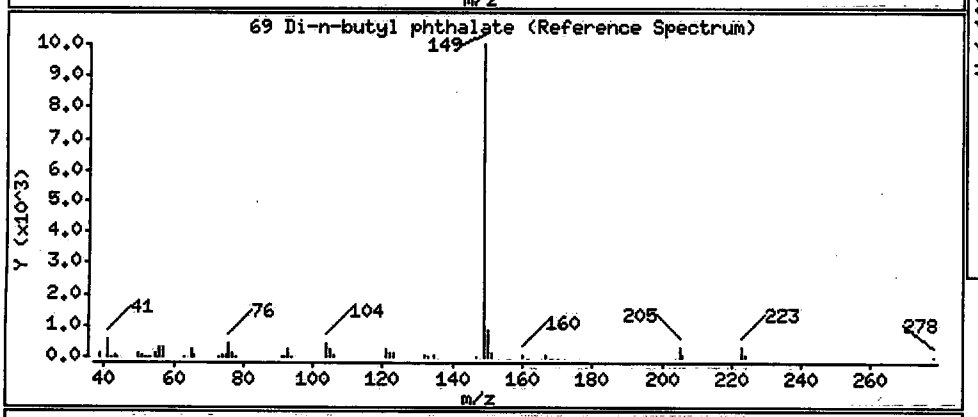
Column diameter: 0.25

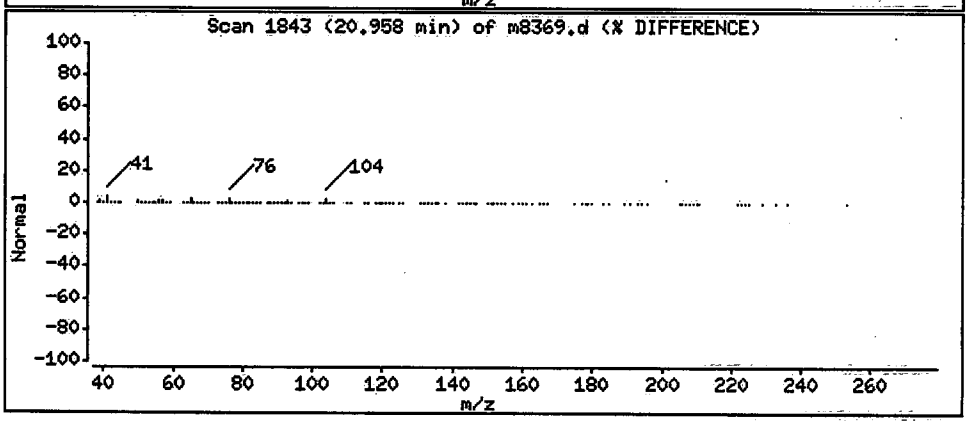
69 Di-n-butyl phthalate

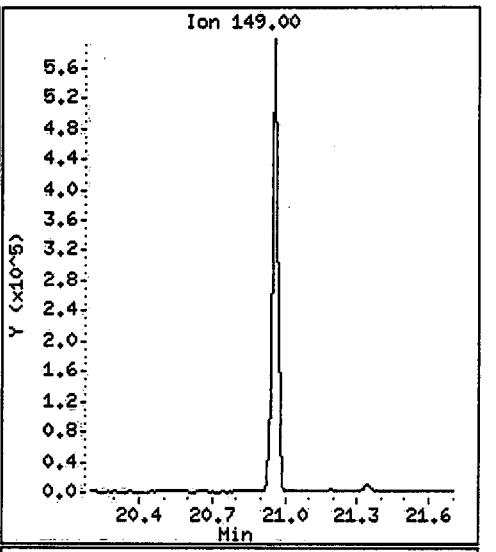
Concentration: 14400 ug/Kg

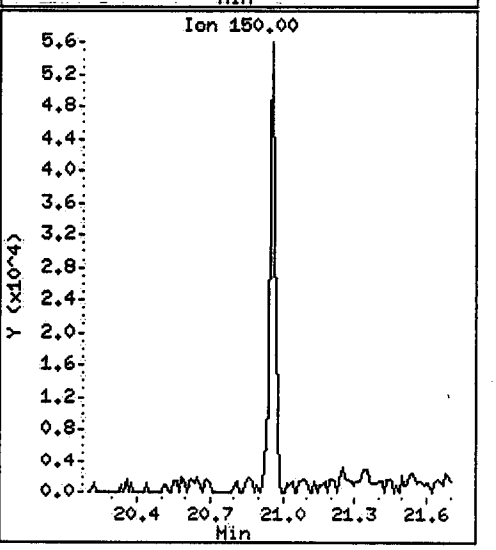












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

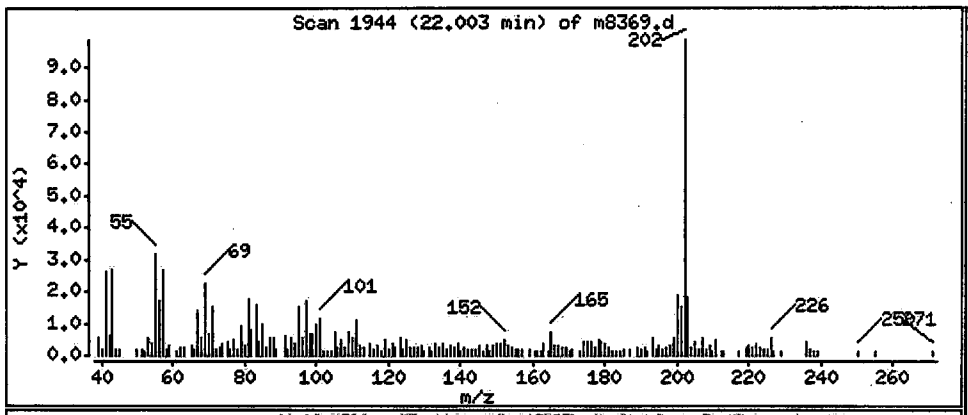
Operator: dce

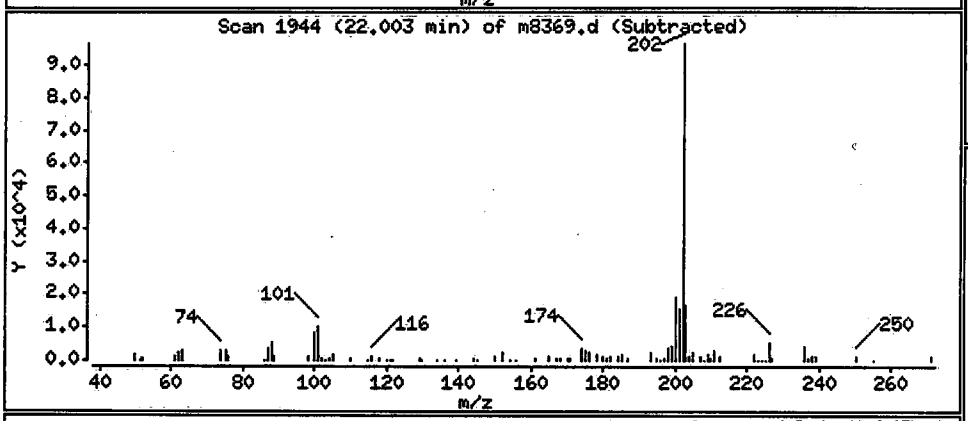
Column phase: ZB-5

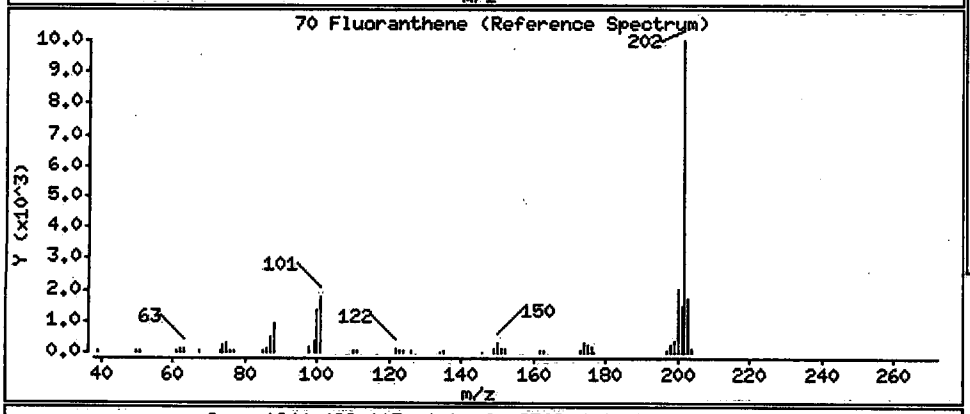
Column diameter: 0.25

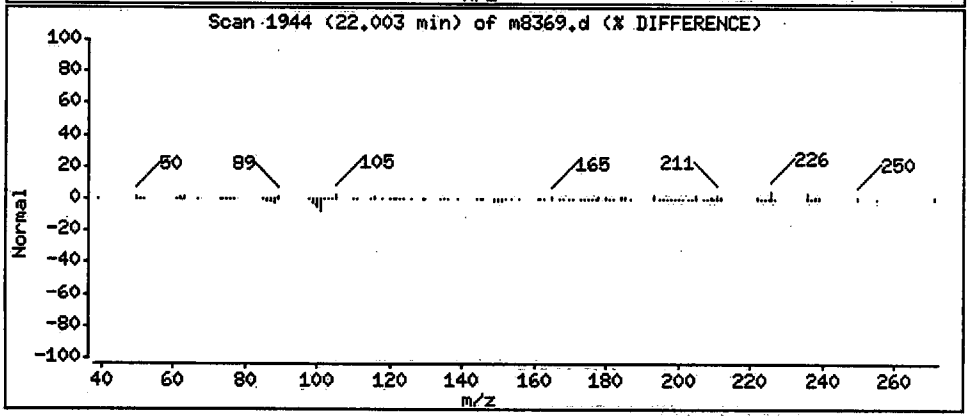
70 Fluoranthene

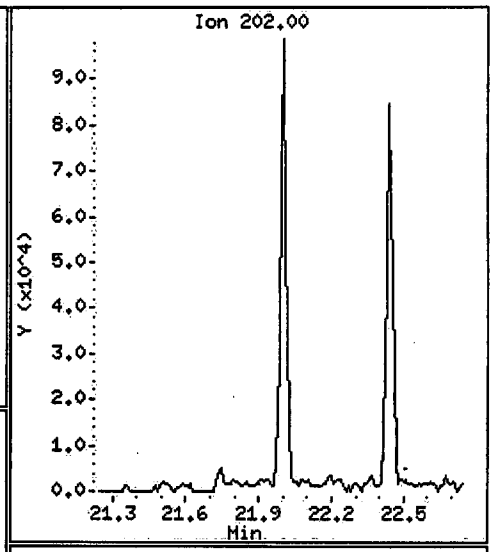
Concentration: 2570 ug/Kg

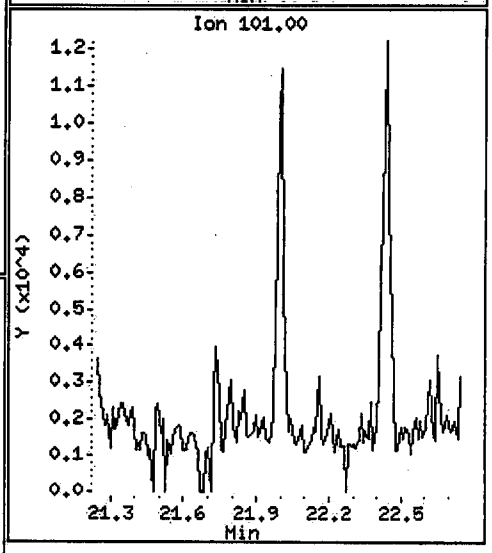












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

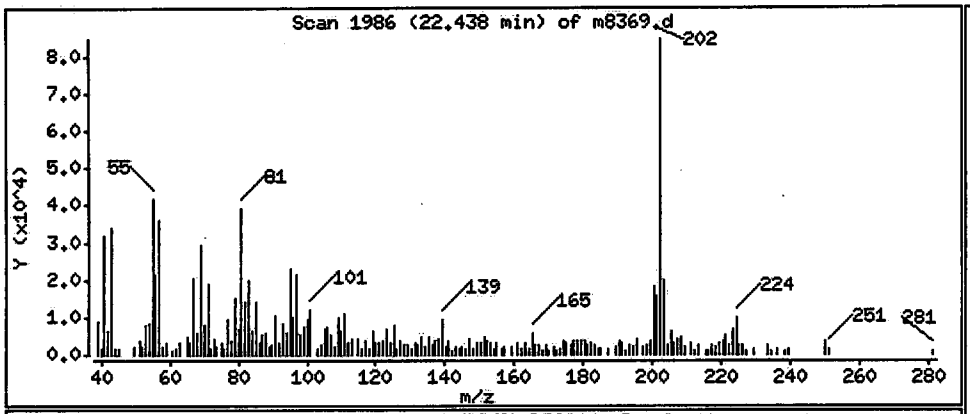
Operator: dce

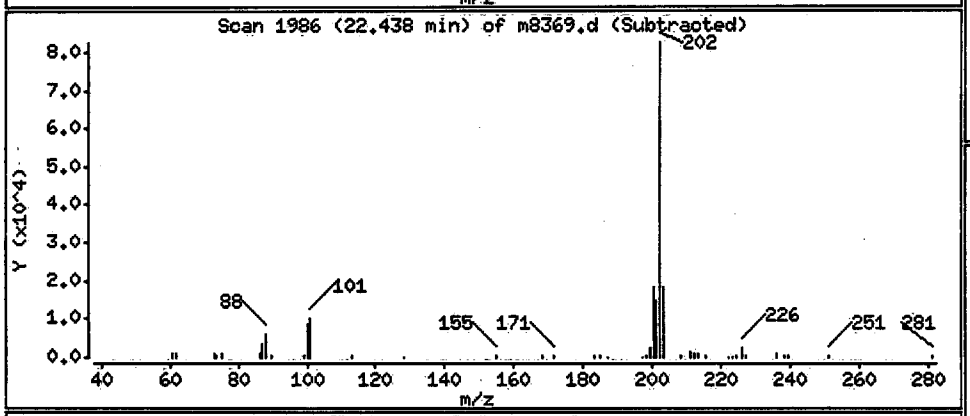
Column phase: ZB-5

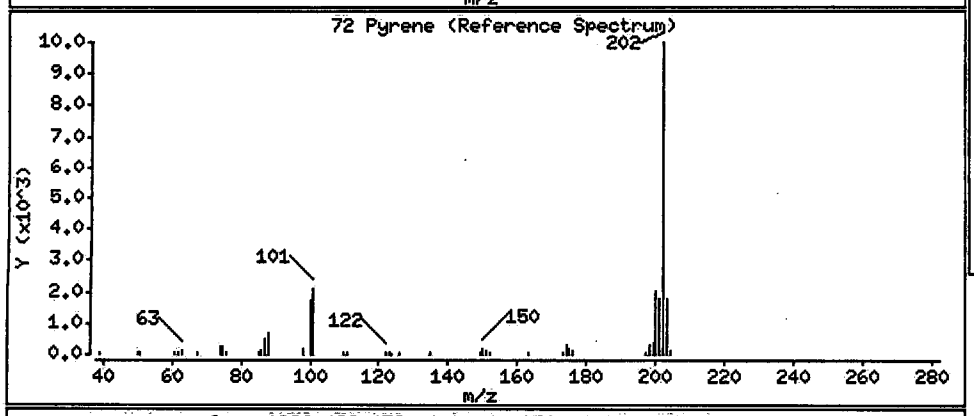
Column diameter: 0.25

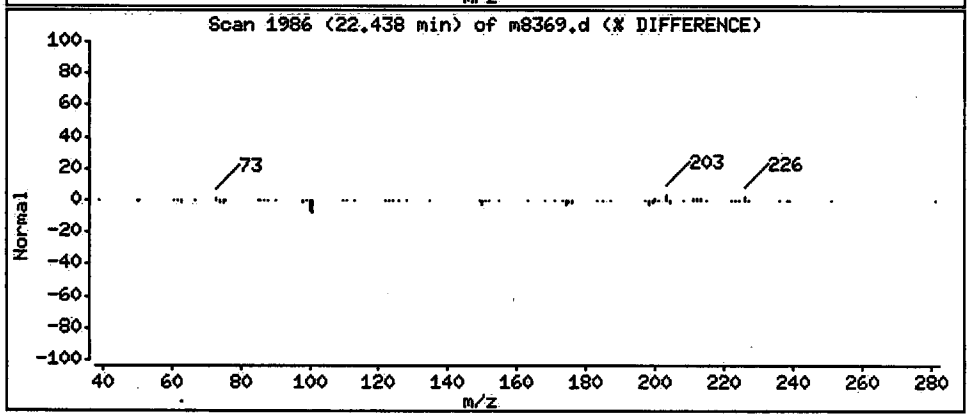
72 Pyrene

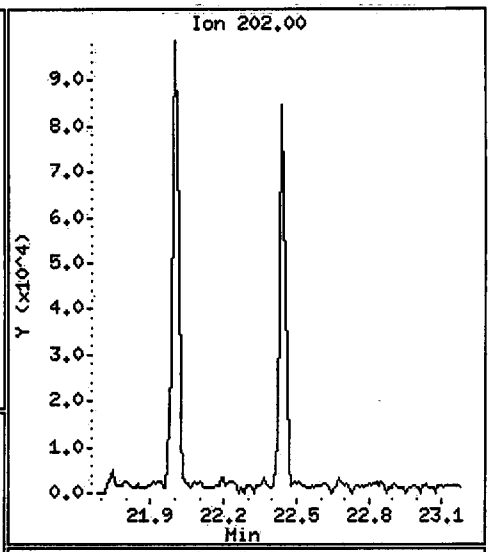
Concentration: 884 ug/Kg

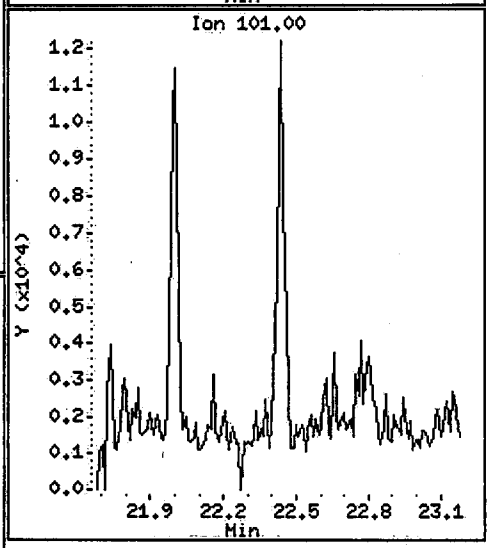












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

Volume Injected (uL): 2.0

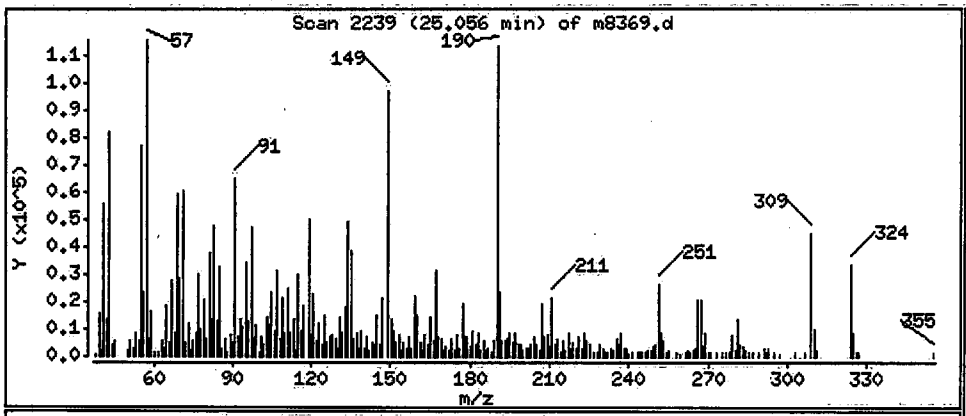
Operator: dce

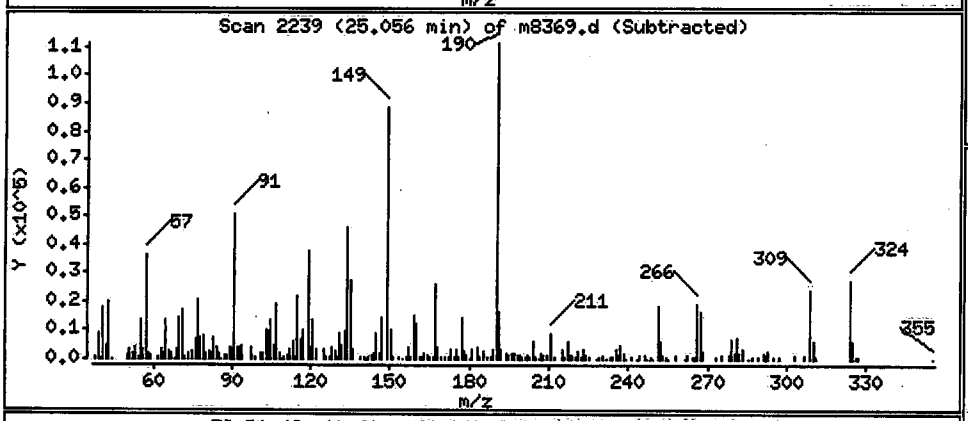
Column phase: ZB-5

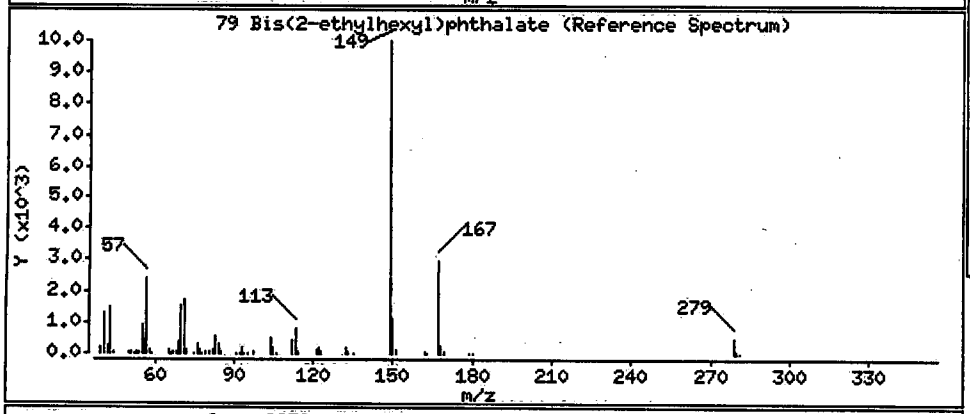
Column diameter: 0.25

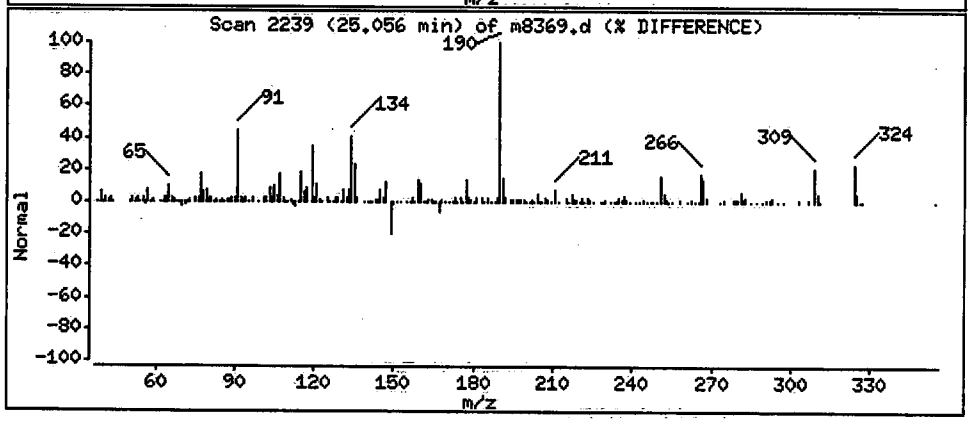
79 Bis(2-ethylhexyl)phthalate

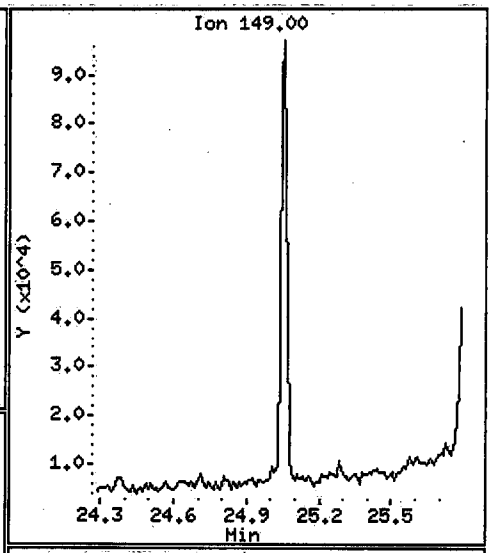
Concentration: 1230 ug/Kg

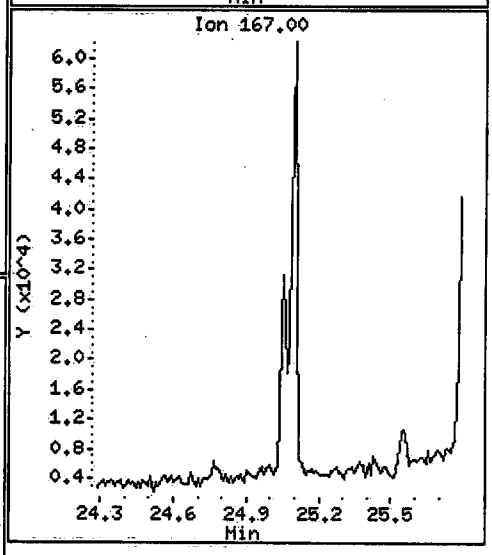












Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

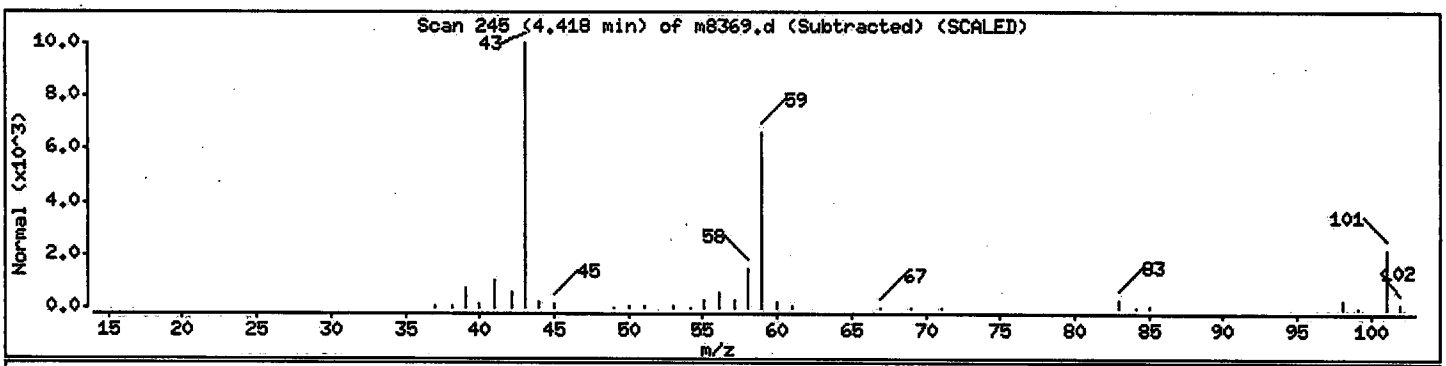
Volume Injected (uL): 2.0

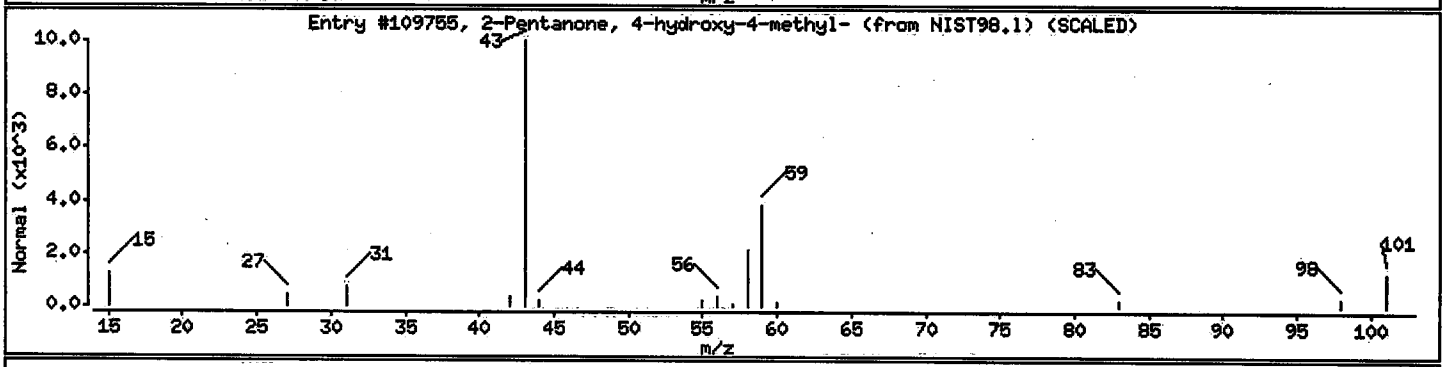
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109755	56	C6H12O2	116





Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

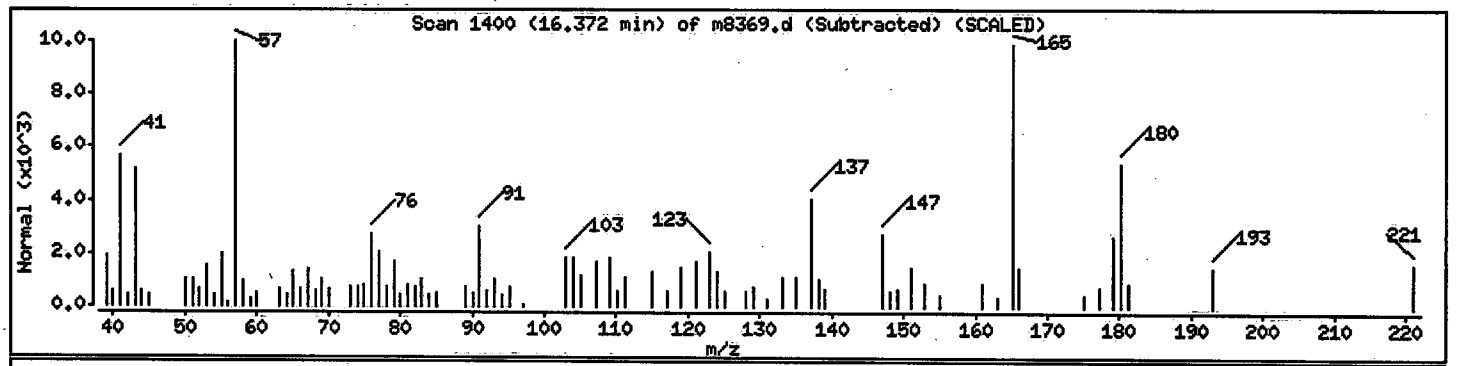
Volume Injected (uL): 2.0

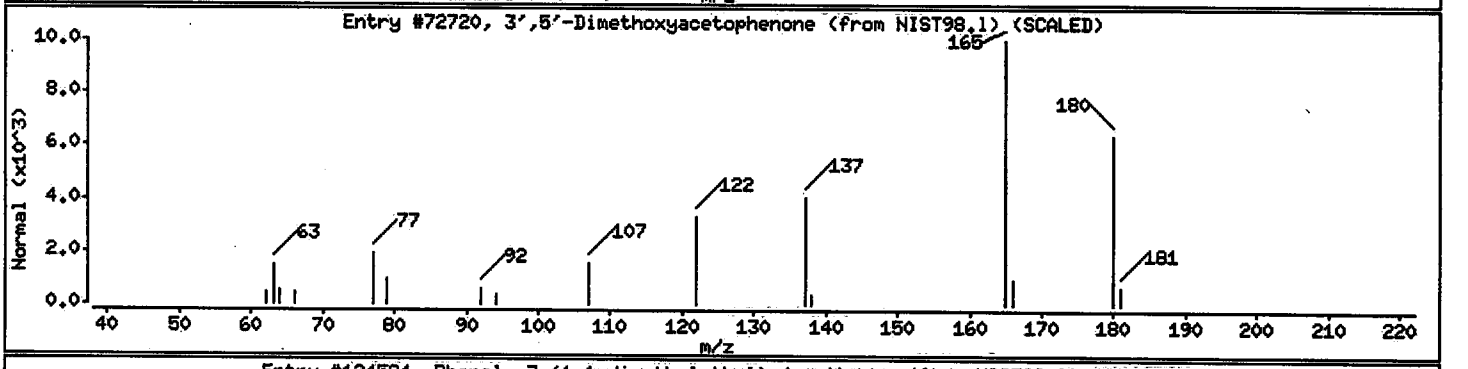
Operator: dce

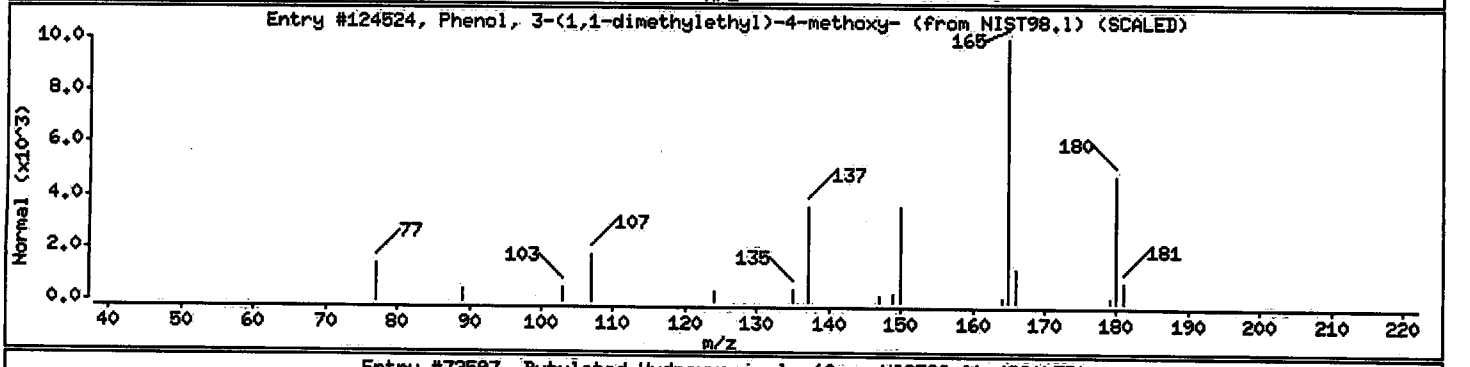
Column phase: ZB-5

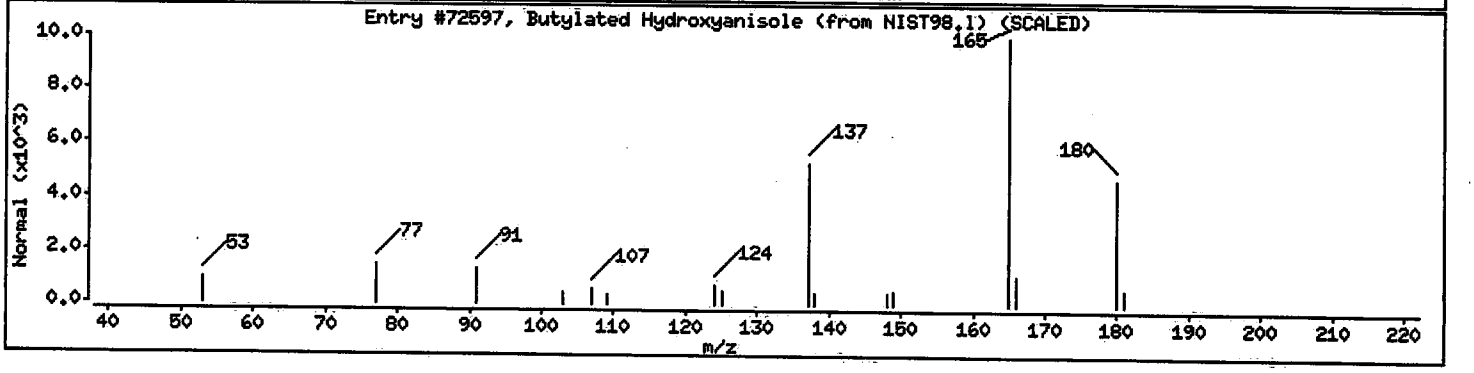
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3',5'-Dimethoxyacetophenone	39151-19-4	NIST98.1	72720	78	C10H12O3	180
Phenol, 3-(1,1-dimethylethyl)-4-methoxy-	88-32-4	NIST98.1	124524	64	C11H16O2	180
Butylated Hydroxyanisole	25013-16-5	NIST98.1	72597	60	C11H16O2	180









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

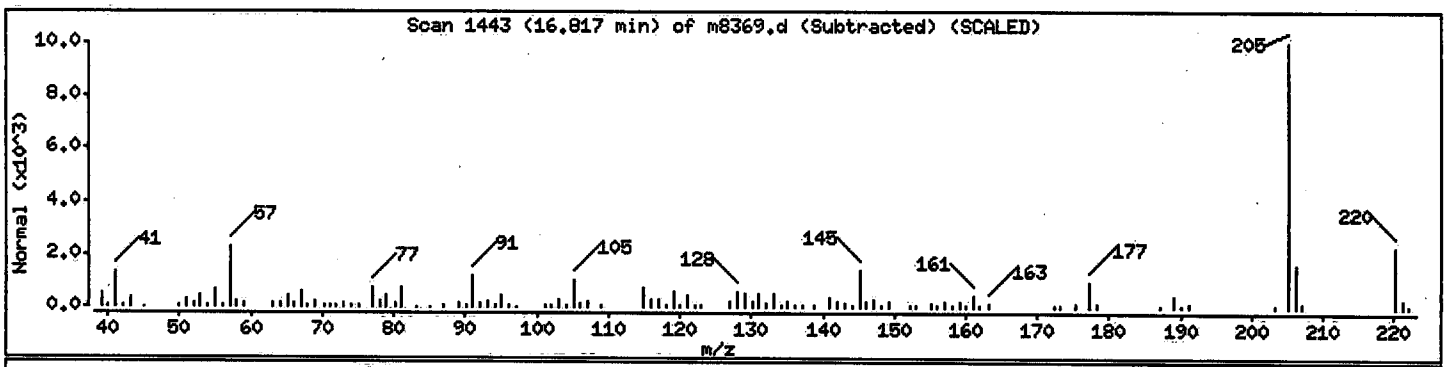
Volume Injected (uL): 2.0

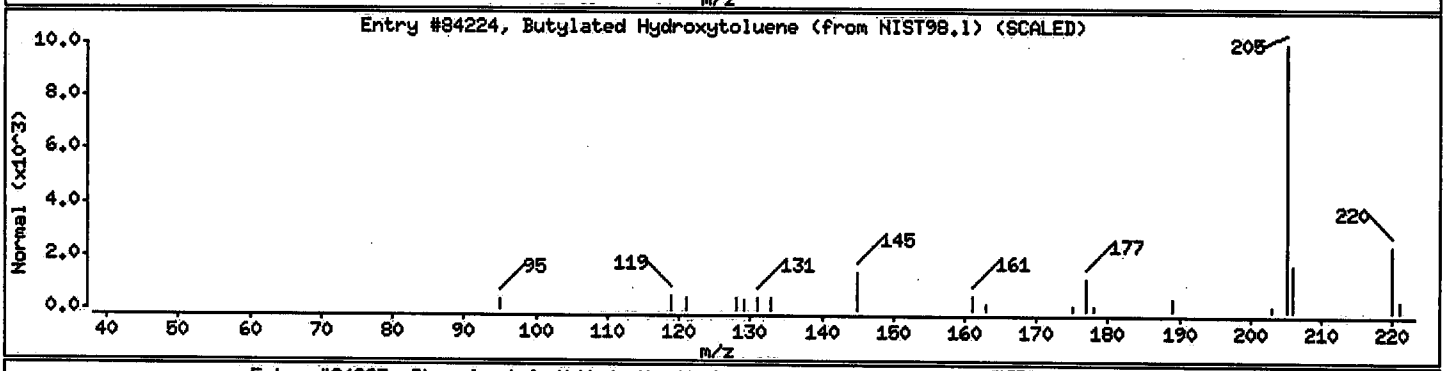
Operator: dce

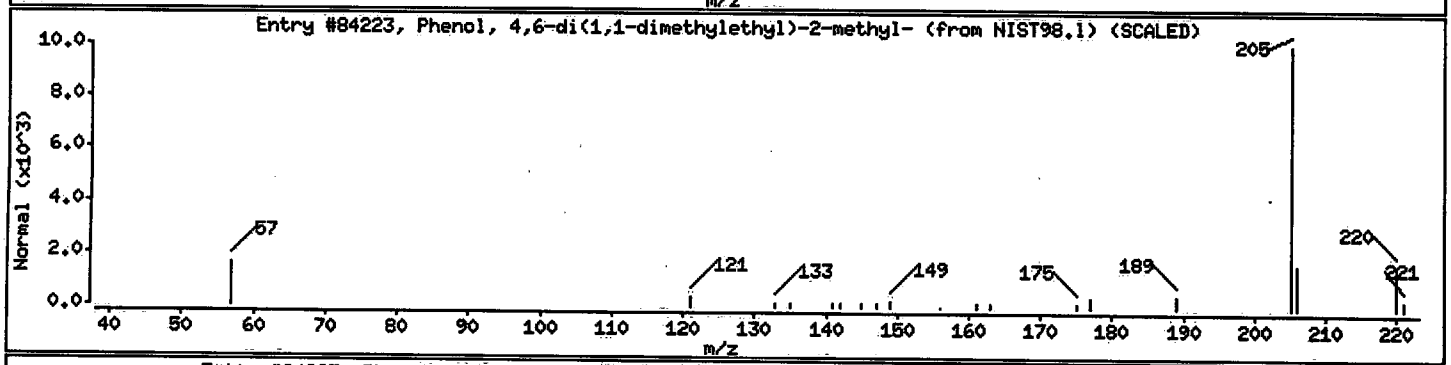
Column phase: ZB-5

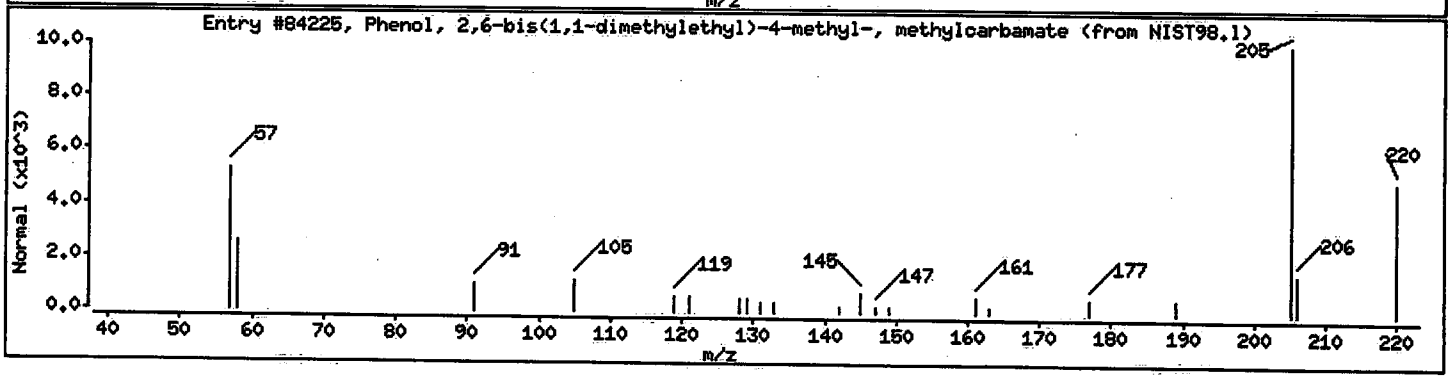
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butylated Hydroxytoluene	128-37-0	NIST98.1	84224	98	C15H240	220
Phenol, 4,6-di(1,1-dimethylethyl)-2-meth	616-55-7	NIST98.1	84223	81	C15H240	220
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met	1918-11-2	NIST98.1	84225	64	C17H27N02	277









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

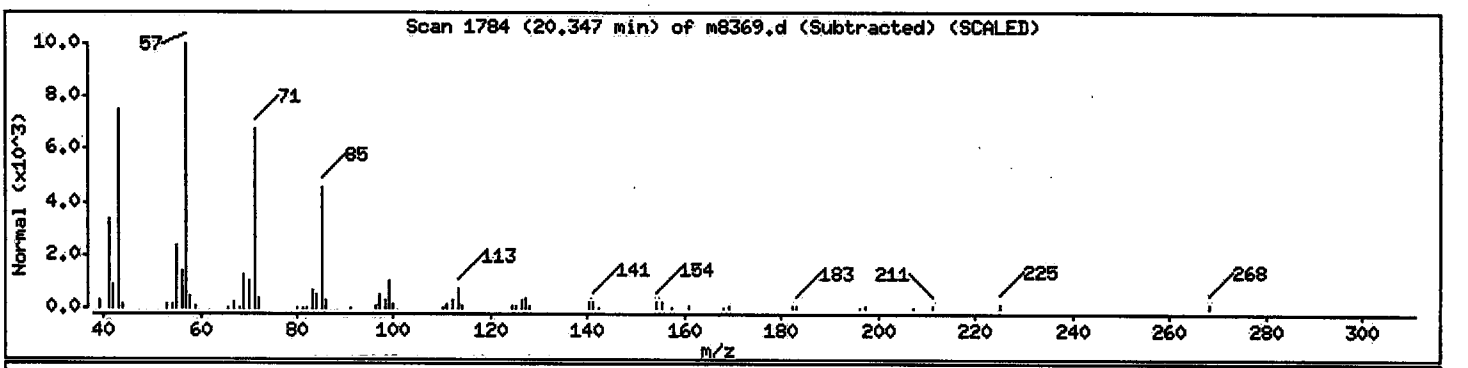
Volume Injected (uL): 2.0

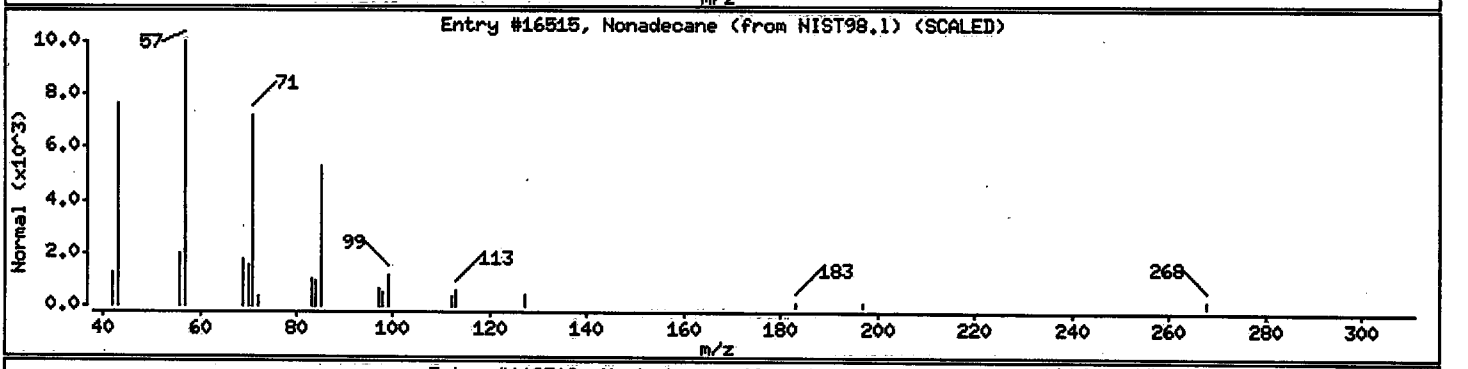
Operator: dce

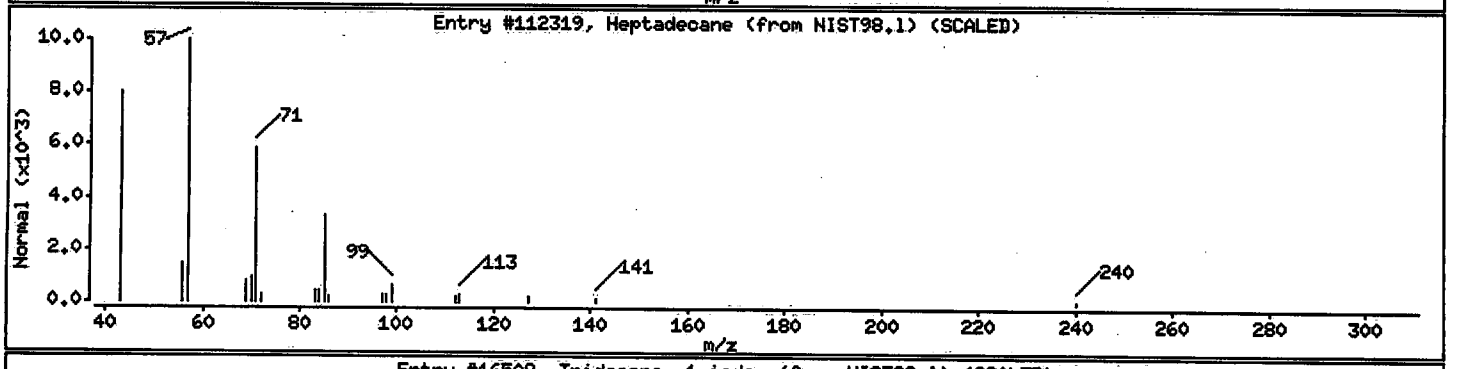
Column phase: ZB-5

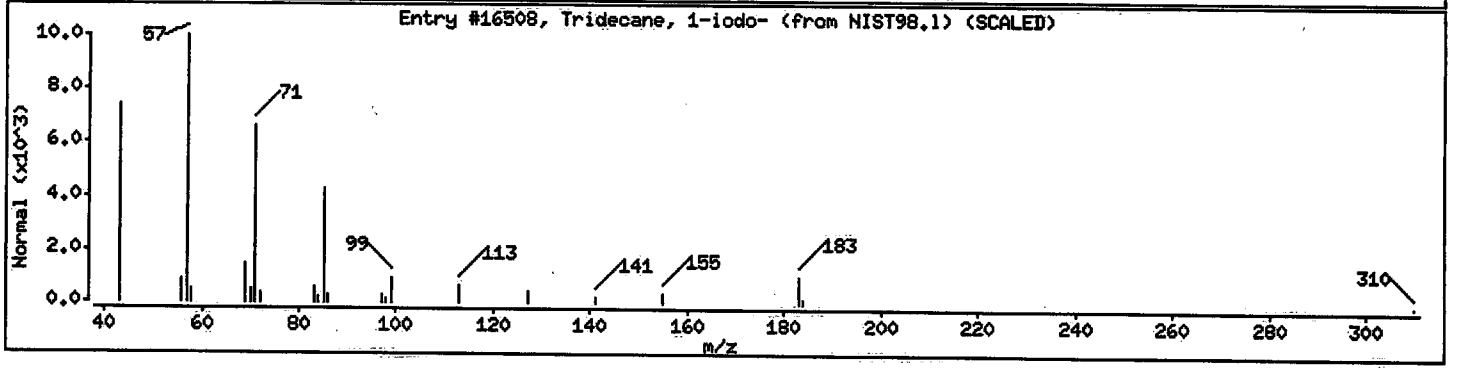
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonadecane	629-92-5	NIST98.1	16515	92	C19H40	268
Heptadecane	629-78-7	NIST98.1	112319	91	C17H36	240
Tridecane, 1-iodo-	35699-77-0	NIST98.1	16508	91	C13H27I	310









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

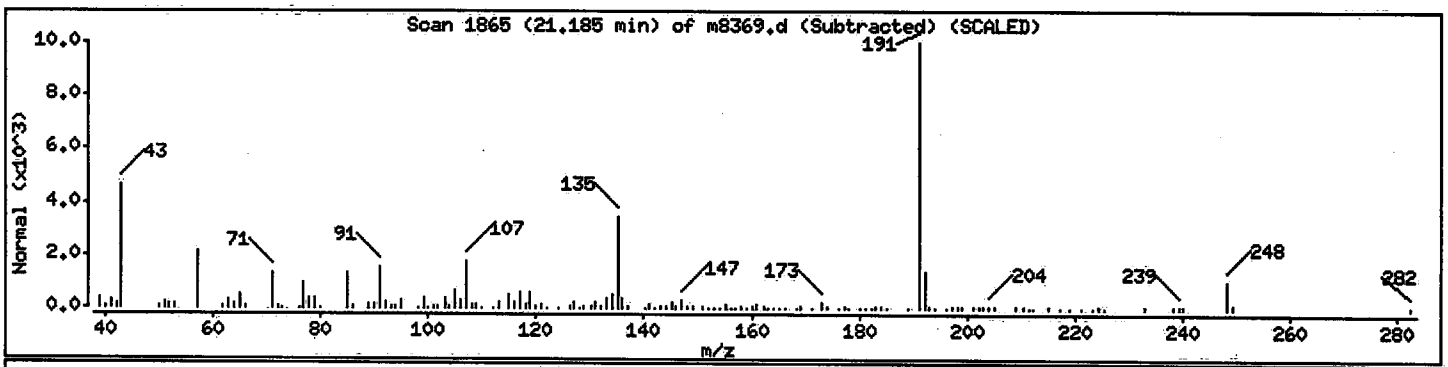
Volume Injected (uL): 2.0

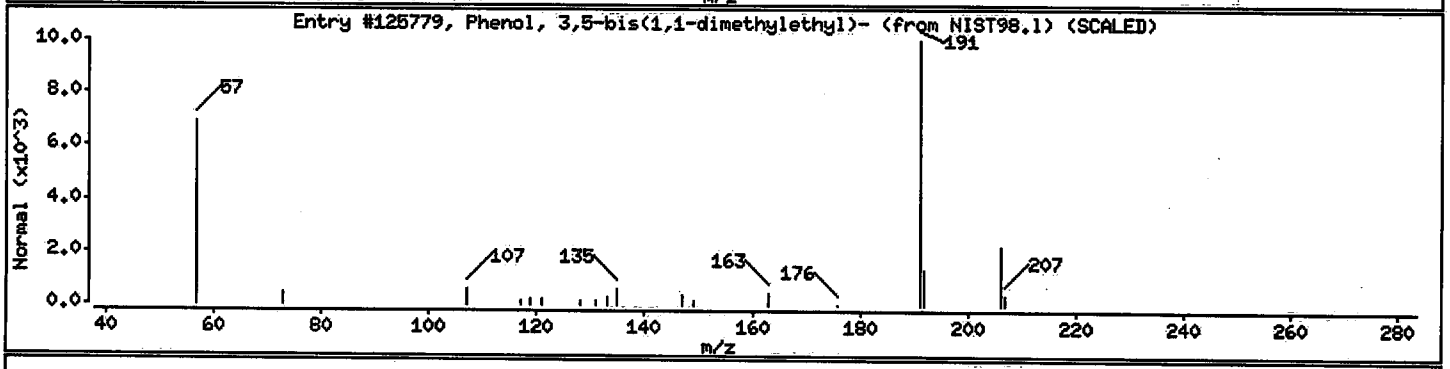
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 3,5-bis(1,1-dimethylethyl)-	1138-52-9	NIST98.1	125779	53	C14H22O	206





Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

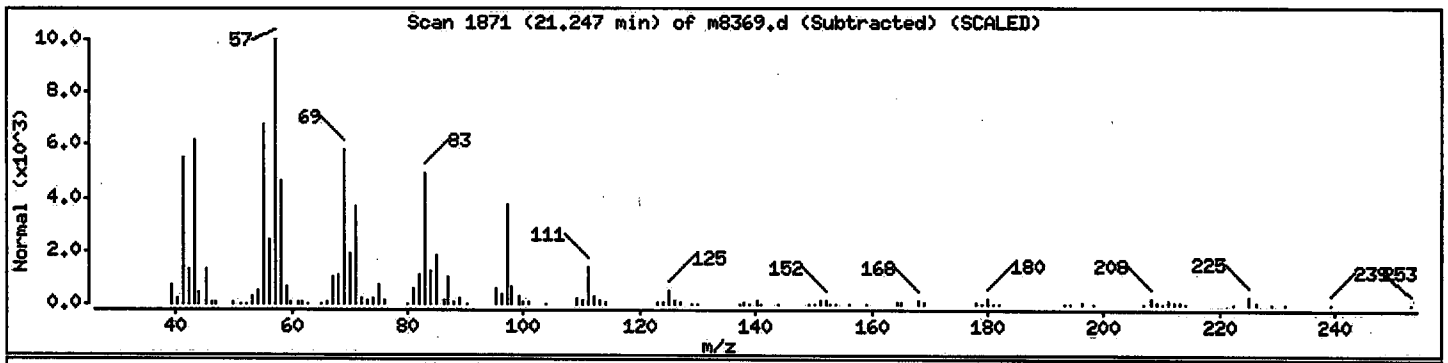
Volume Injected (uL): 2.0

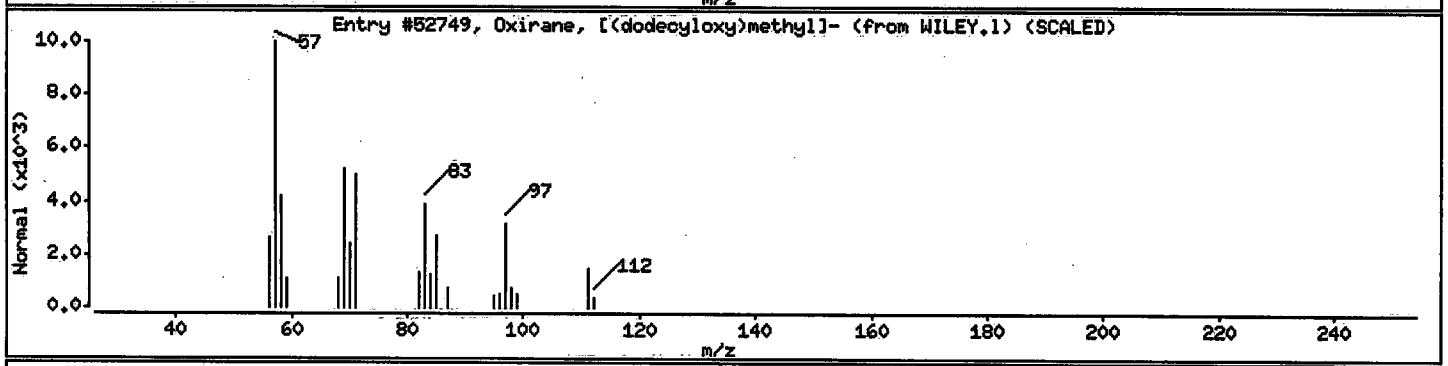
Operator: dce

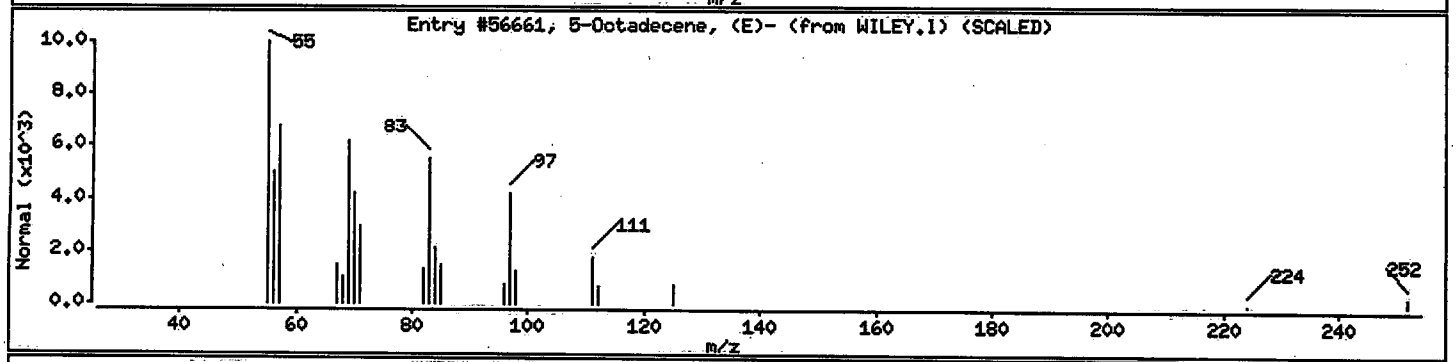
Column phase: ZB-5

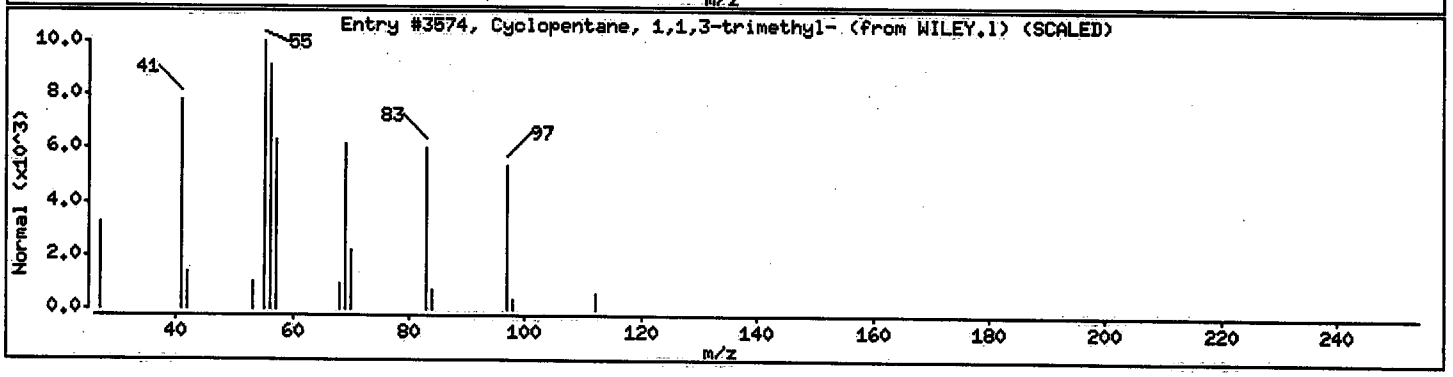
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, [(dodecyloxy)methyl]-	2461-18-9	WILEY.1	52749	49	C15H3002	242
5-Octadecene, (E)-	7206-21-5	WILEY.1	56661	35	C18H36	252
Cyclopentane, 1,1,3-trimethyl-	4516-69-2	WILEY.1	3574	30	C8H16	112









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

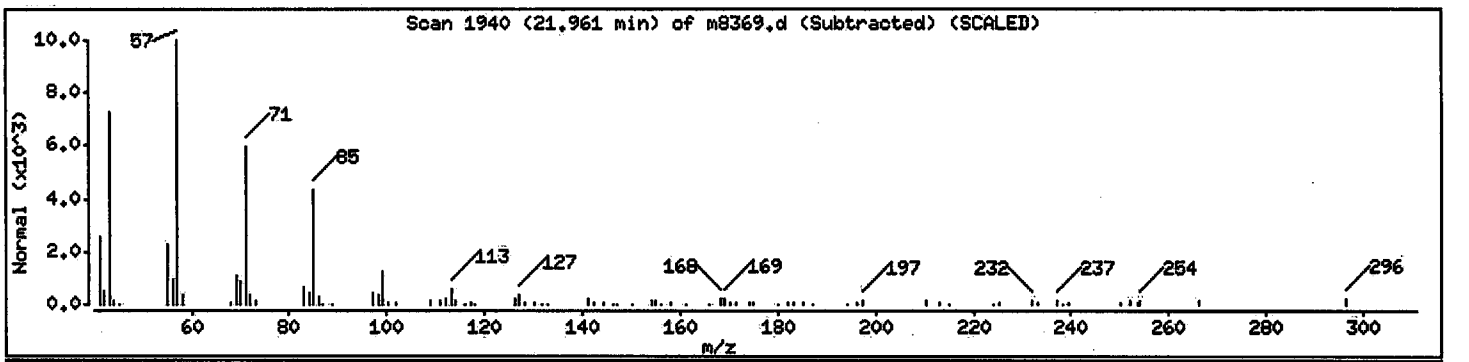
Volume Injected (uL): 2.0

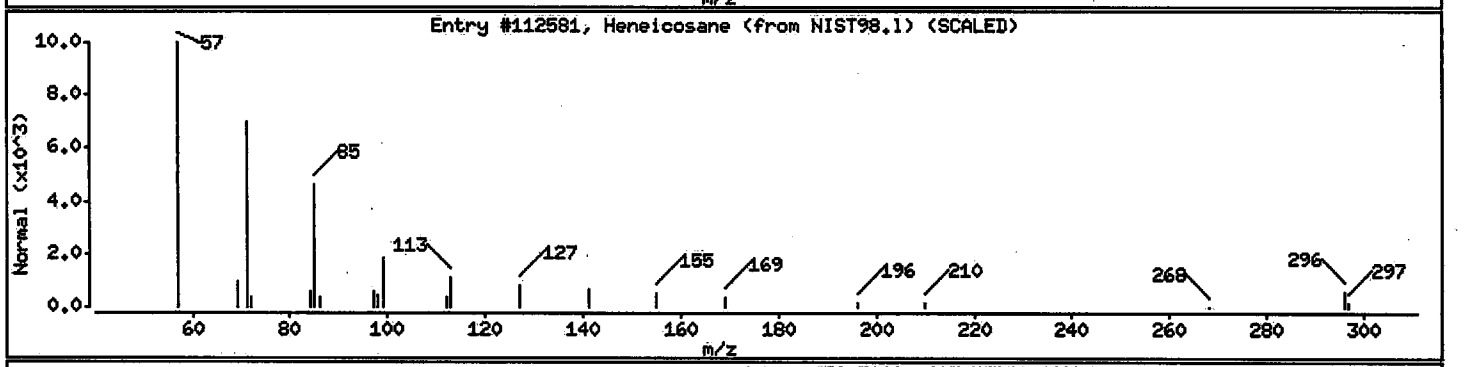
Operator: dce

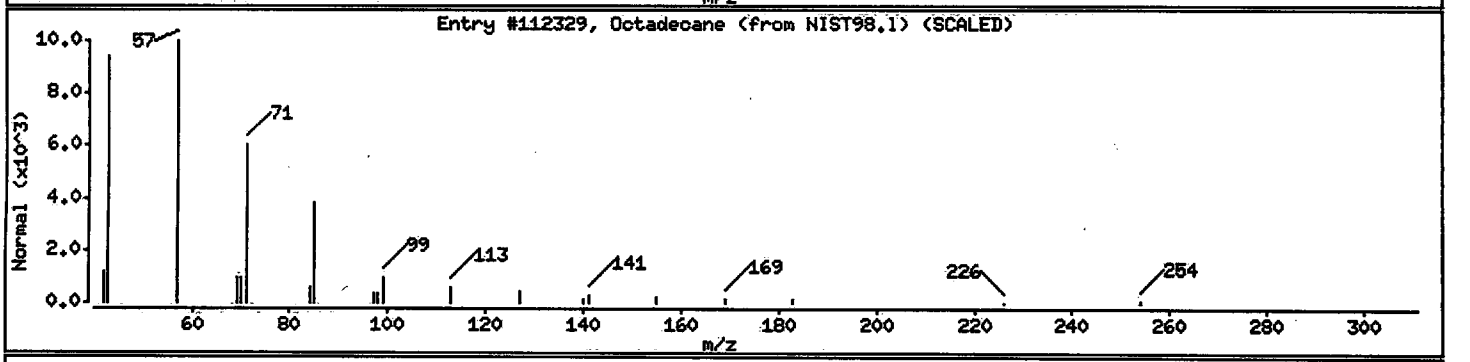
Column phase: ZB-5

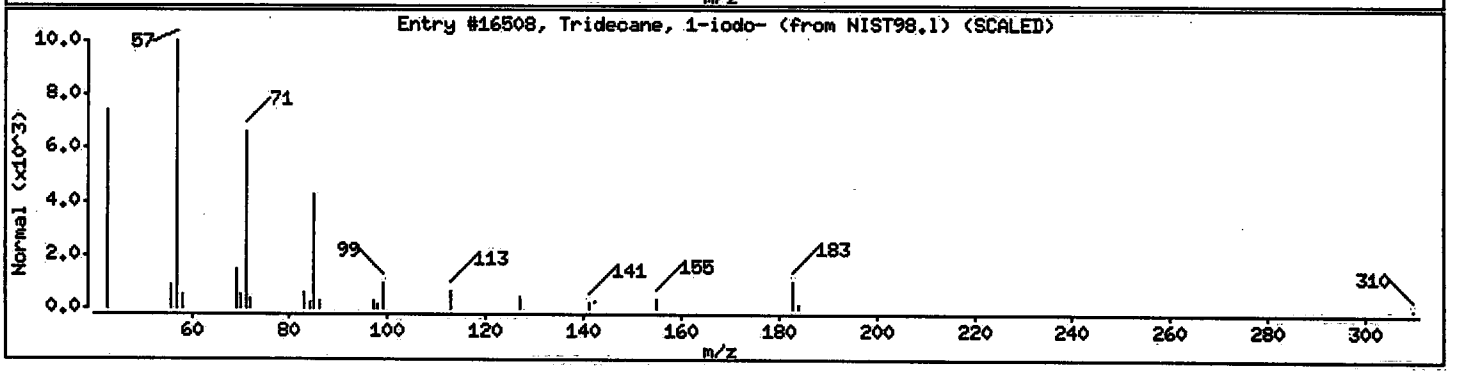
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Heneicosane	629-94-7	NIST98.1	112581	93	C21H44	296
Octadecane	593-45-3	NIST98.1	112329	93	C18H38	254
Tridecane, 1-iodo-	35599-77-0	NIST98.1	16508	83	C13H27I	310









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

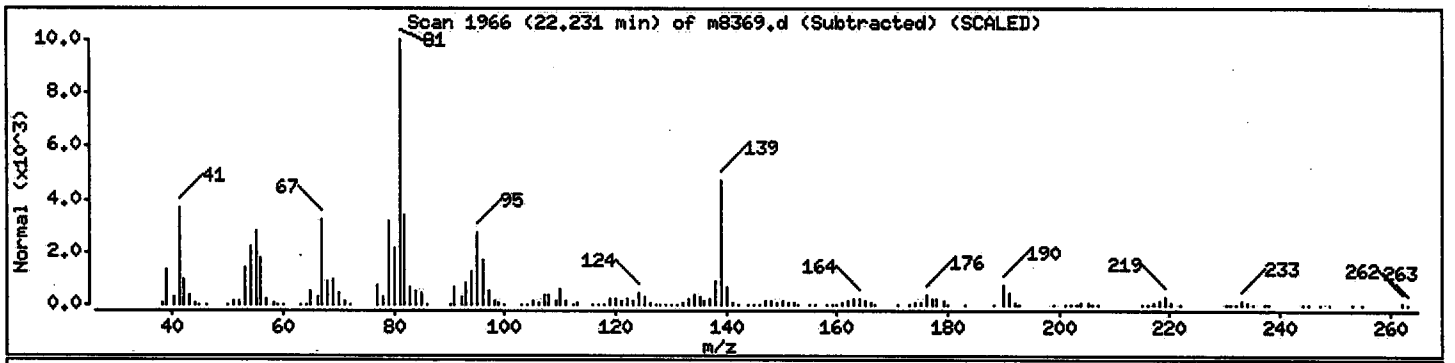
Volume Injected (uL): 2.0

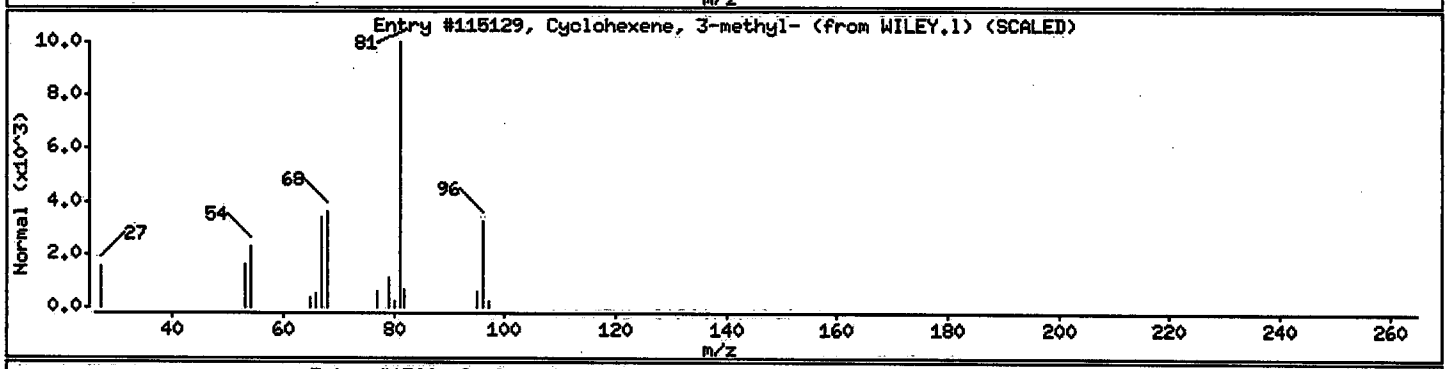
Operator: dce

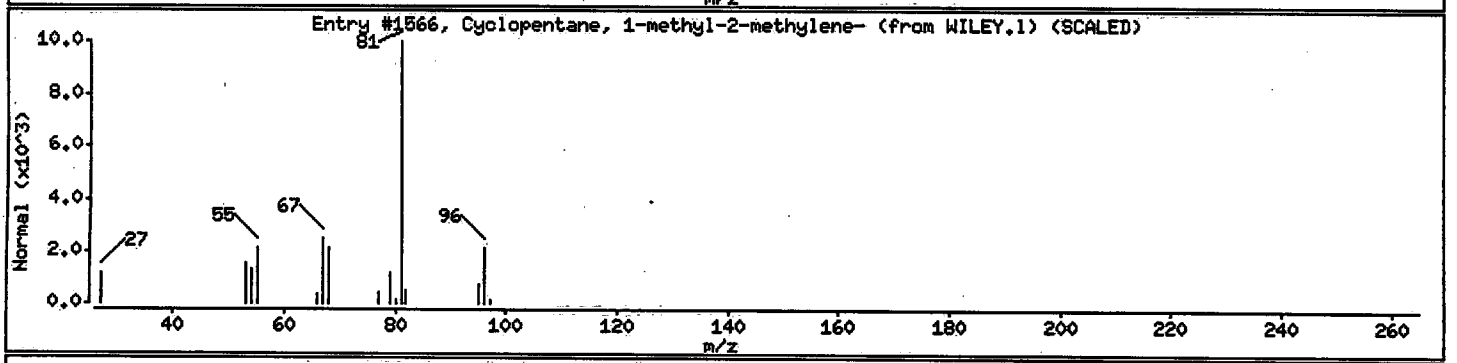
Column phase: ZB-5

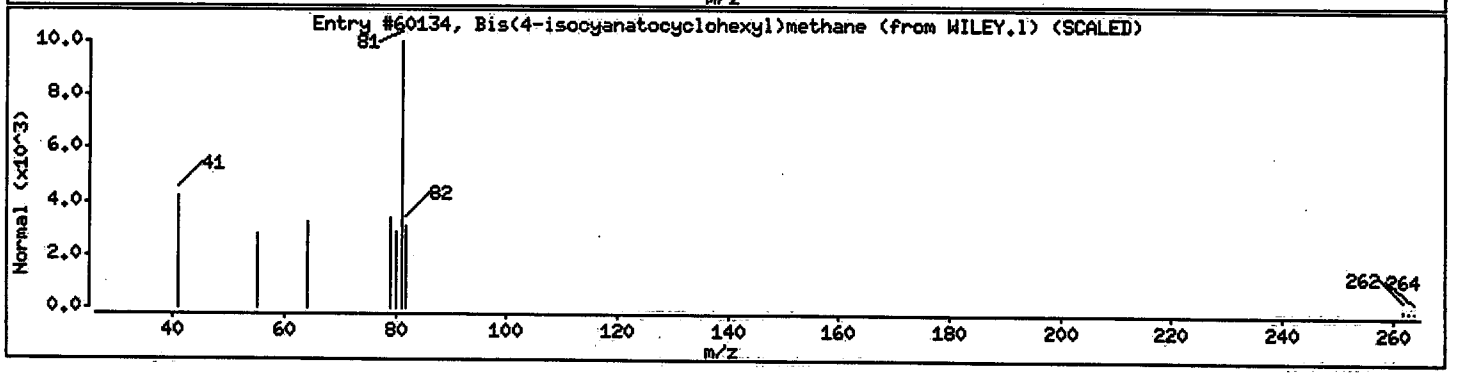
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexene, 3-methyl-	591-48-0	WILEY.1	115129	43	C7H12	96
Cyclopentane, 1-methyl-2-methylene-	41158-41-2	WILEY.1	1566	43	C7H12	96
Bis(4-isocyanatocyclohexyl)methane	0-00-0	WILEY.1	60134	43	C15H22N2O2	262









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

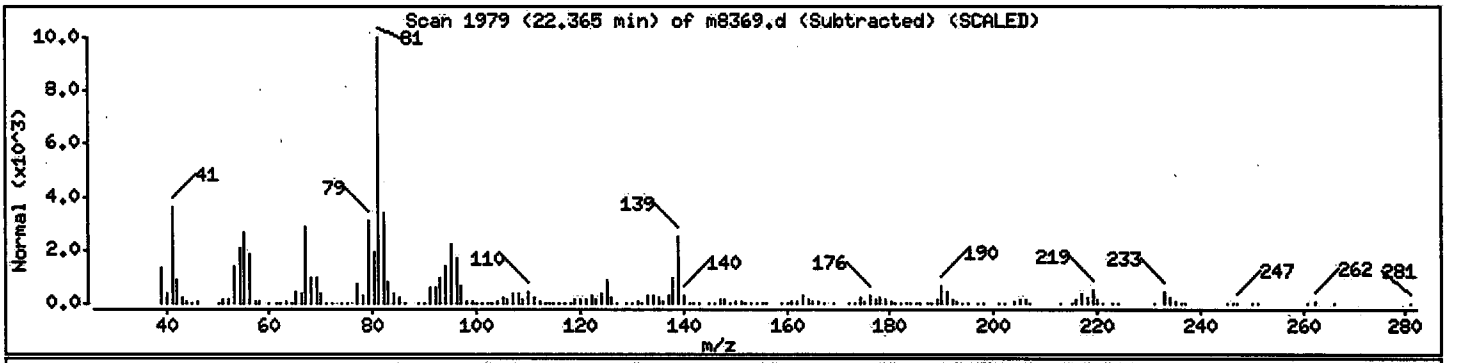
Volume Injected (uL): 2.0

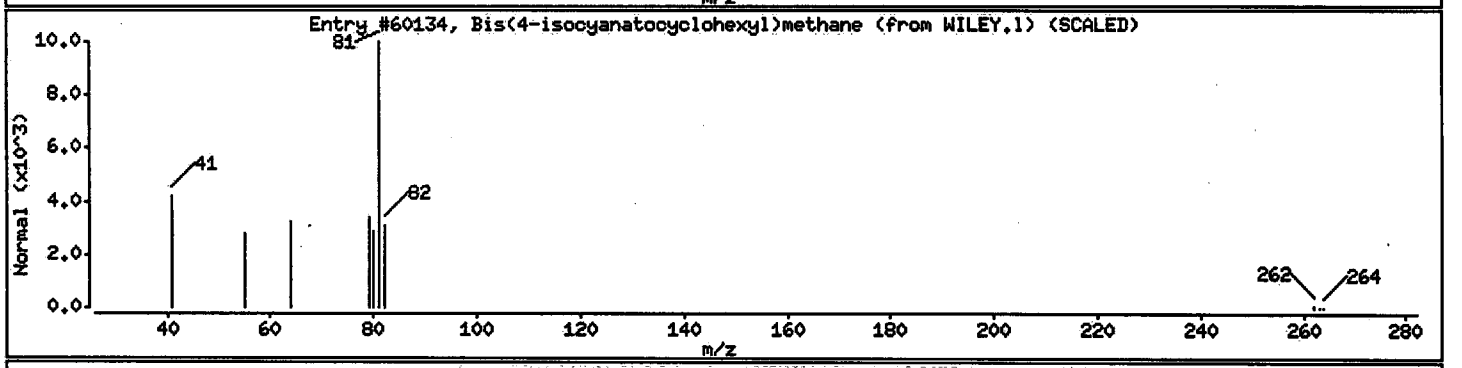
Operator: dce

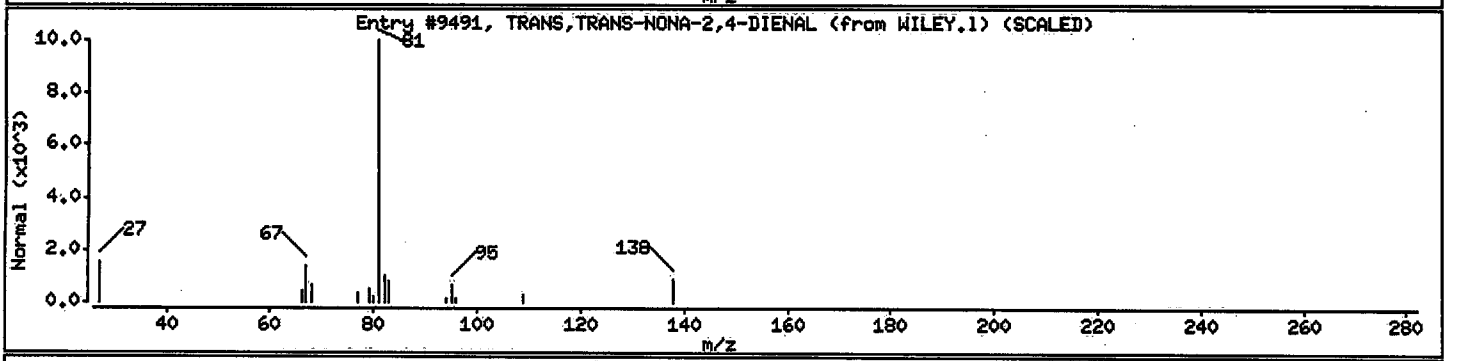
Column phase: ZB-5

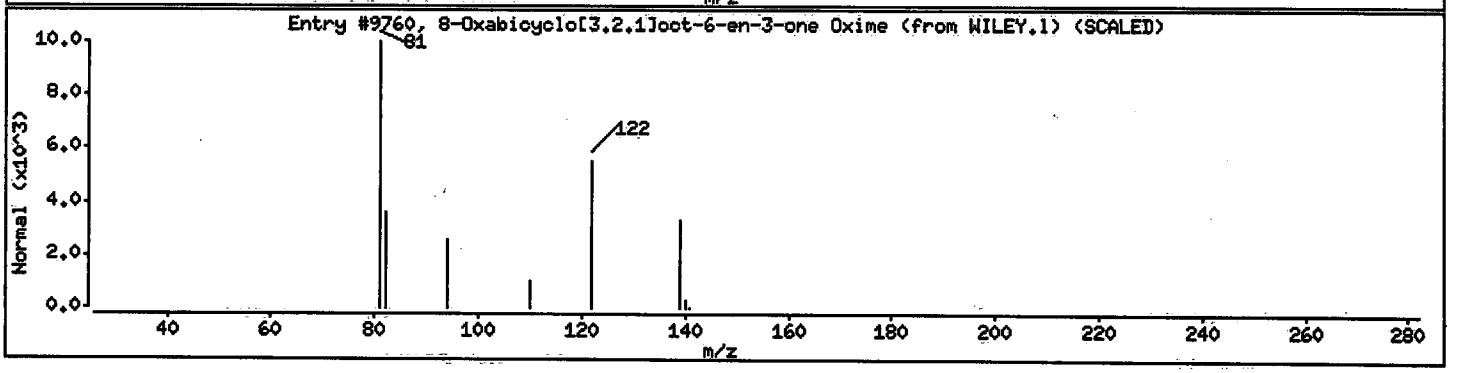
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bis(4-isocyanatocyclohexyl)methane	0-00-0	WILEY.1	60134	50	C15H22N2O2	262
TRANS,TRANS-NONA-2,4-DIENAL	5910-87-2	WILEY.1	9491	46	C9H14O	138
8-Oxabicyclo[3.2.1]oct-6-en-3-one Oxime	69496-57-7	WILEY.1	9760	45	C7H9NO2	139









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

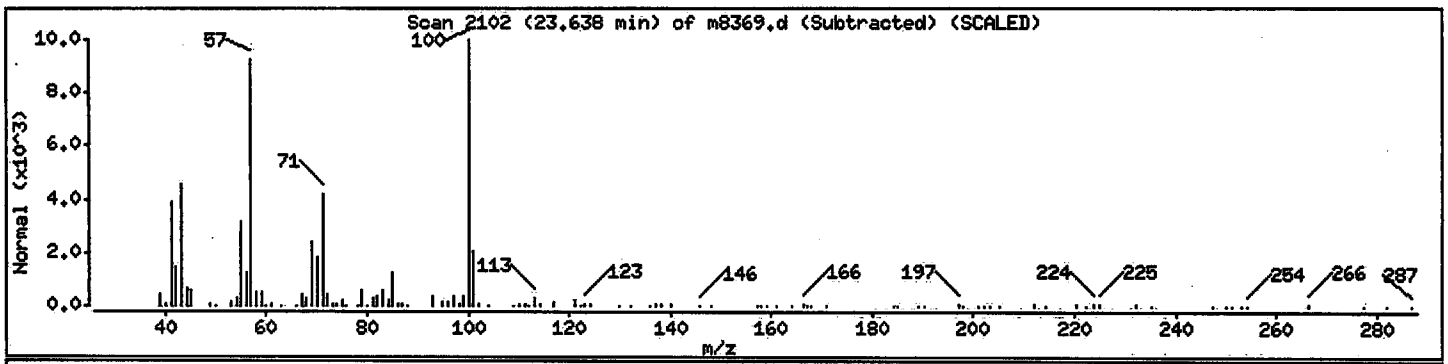
Volume Injected (uL): 2.0

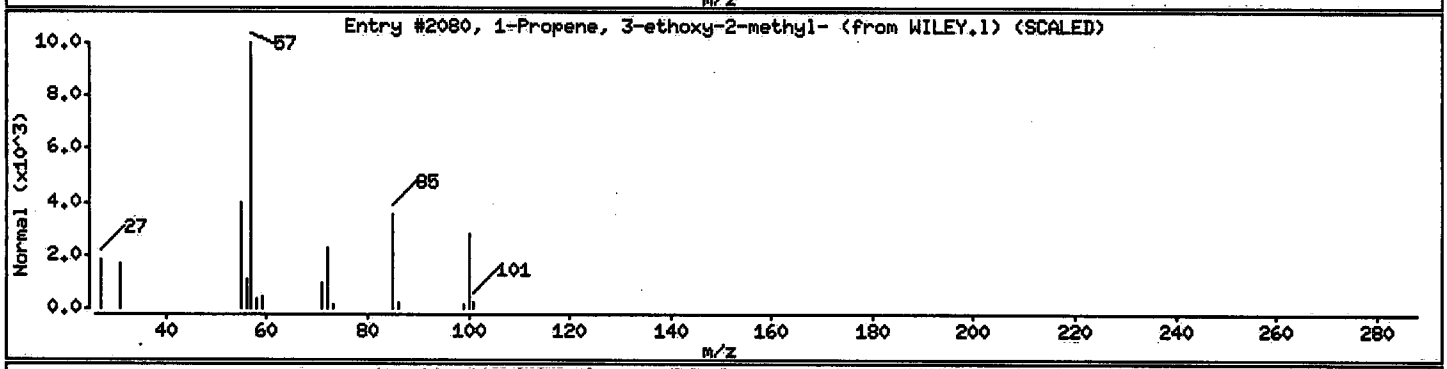
Operator: dce

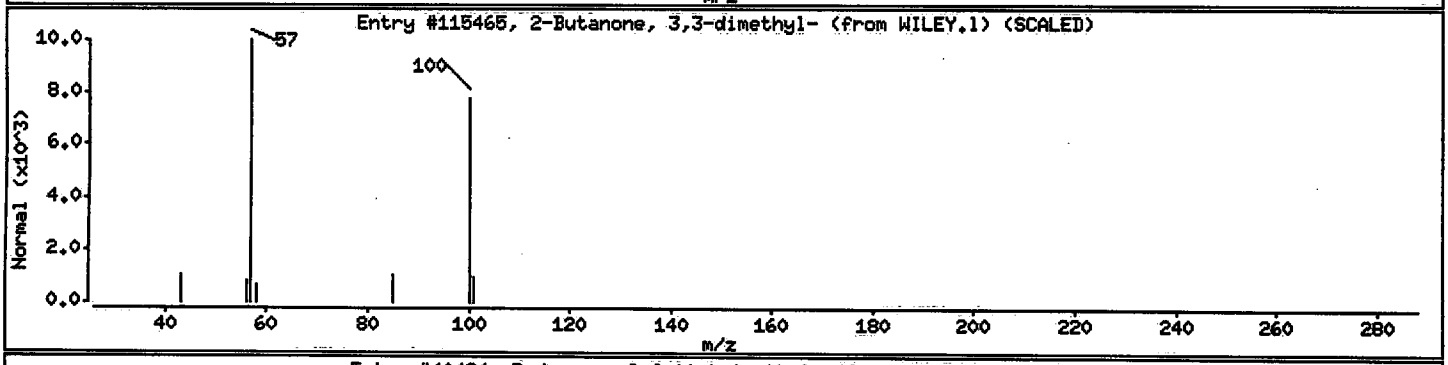
Column phase: ZB-5

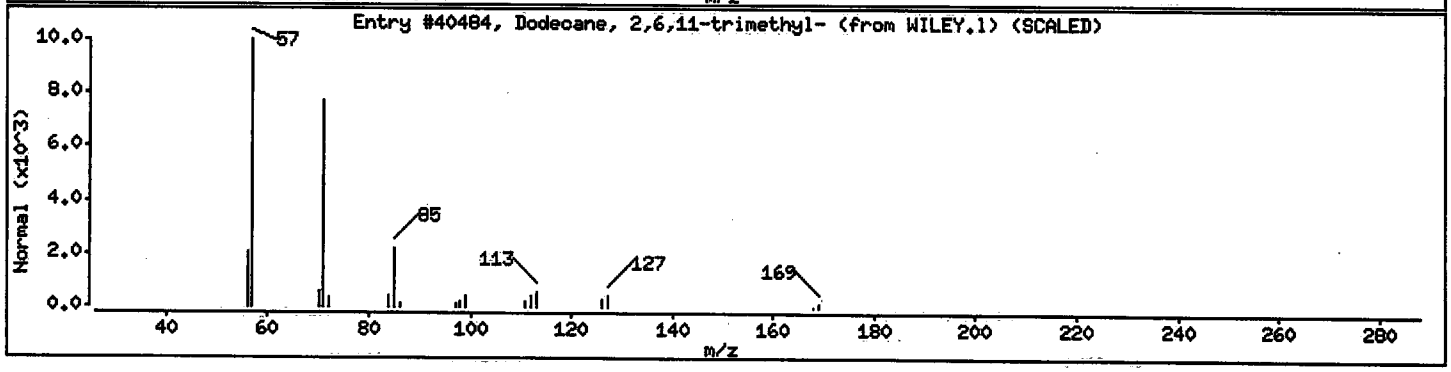
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 3-ethoxy-2-methyl-	24309-28-2	WILEY.l	2080	47	C6H12O	100
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.l	115465	43	C6H12O	100
Dodecane, 2,6,11-trimethyl-	31295-56-4	WILEY.l	40484	22	C15H32	212









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

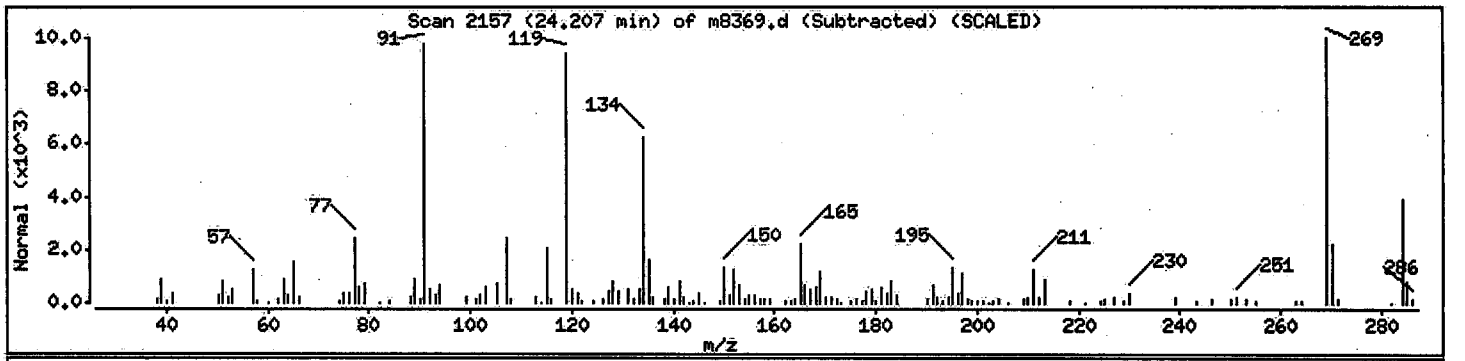
Volume Injected (uL): 2.0

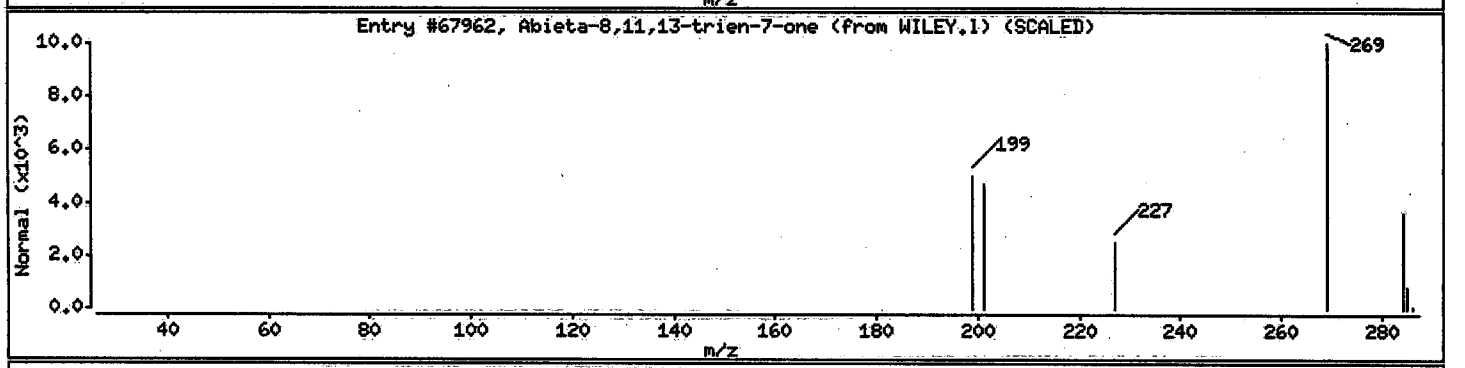
Operator: dce

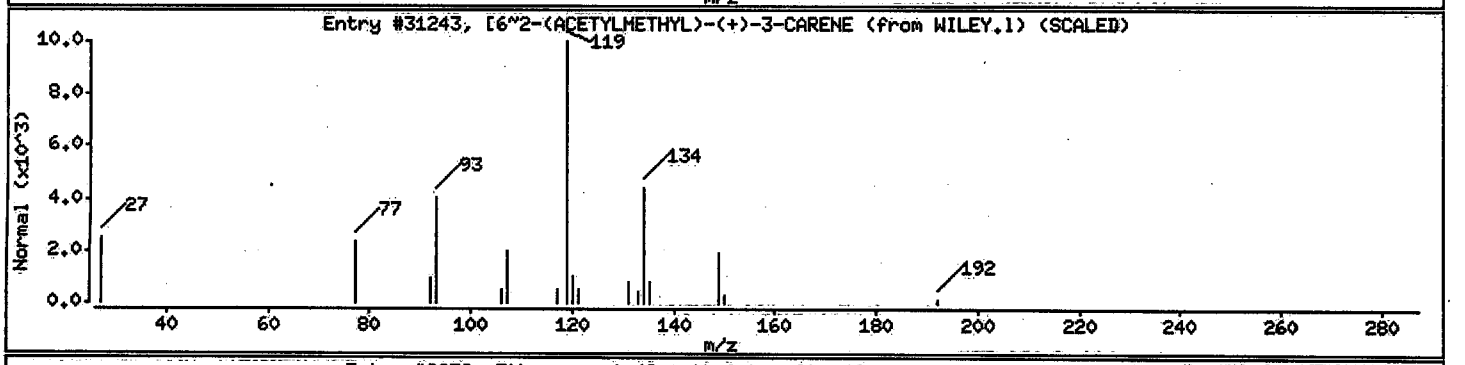
Column phase: ZB-5

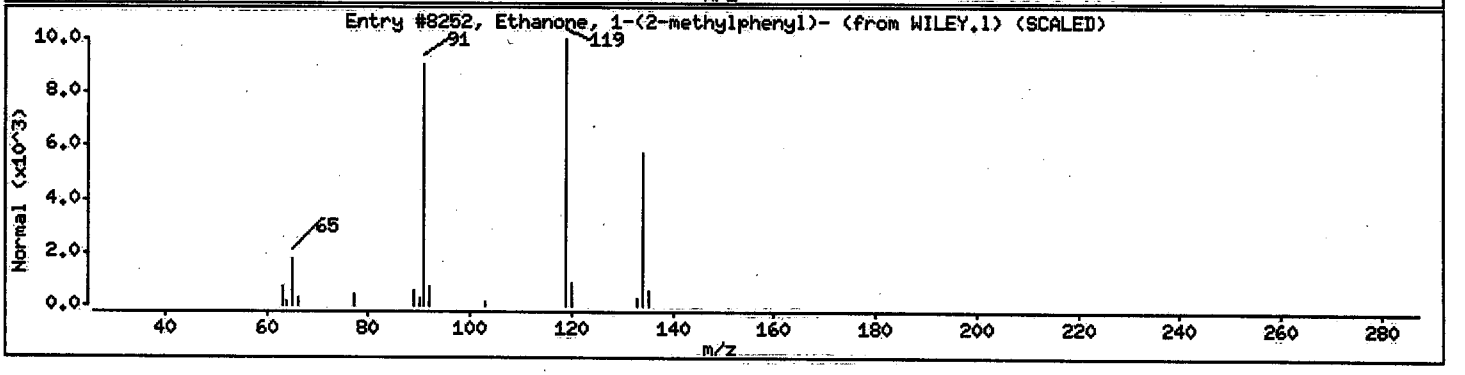
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Abieta-8,11,13-trien-7-one	26920-03-6	WILEY.1	67962	45	C20H28O	284
≥[6^2-(ACETYLMETHYL)-(+)-3-CARENE	0-00-0	WILEY.1	31243	30	C13H20O	192
Ethanone, 1-(2-methylphenyl)-	577-16-2	WILEY.1	8252	22	C9H10O	134









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

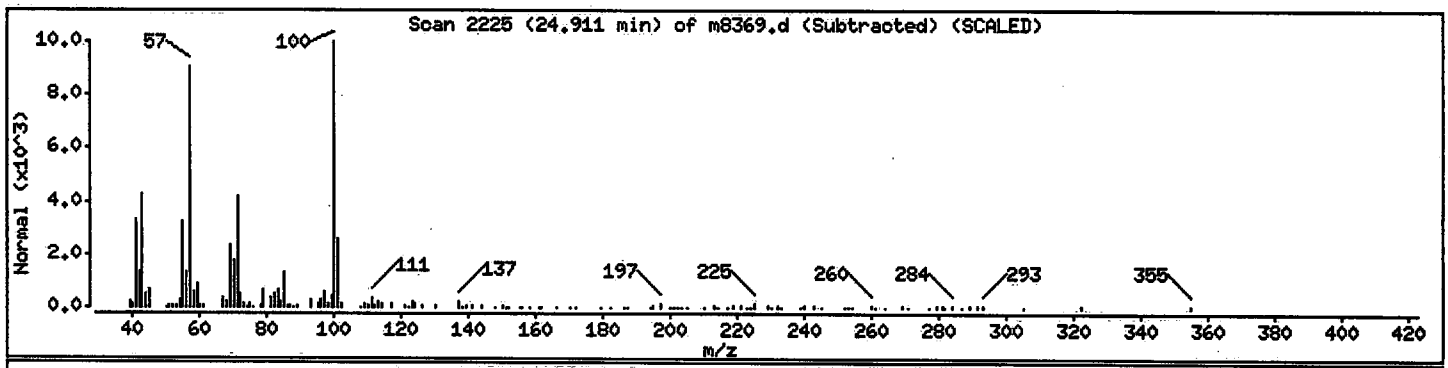
Volume Injected (uL): 2.0

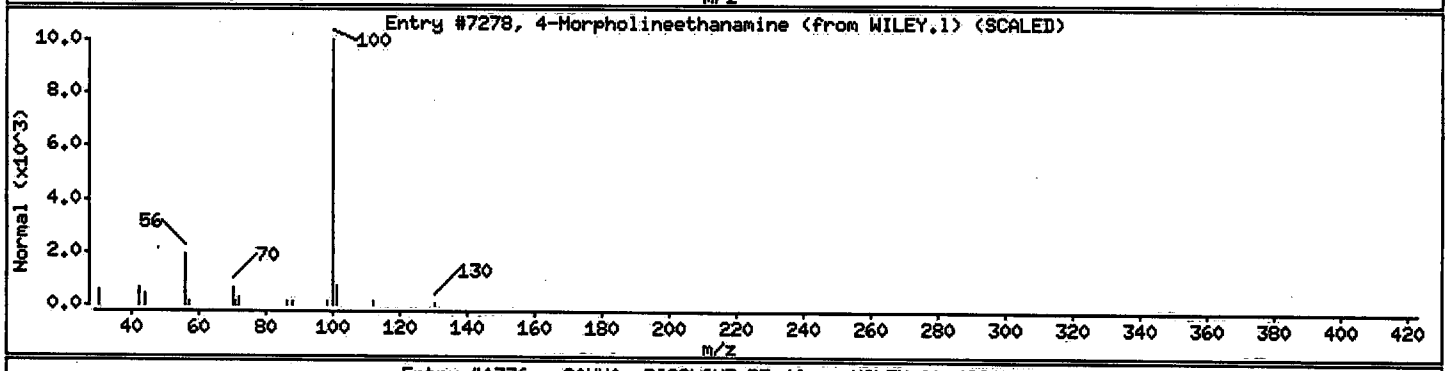
Operator: dce

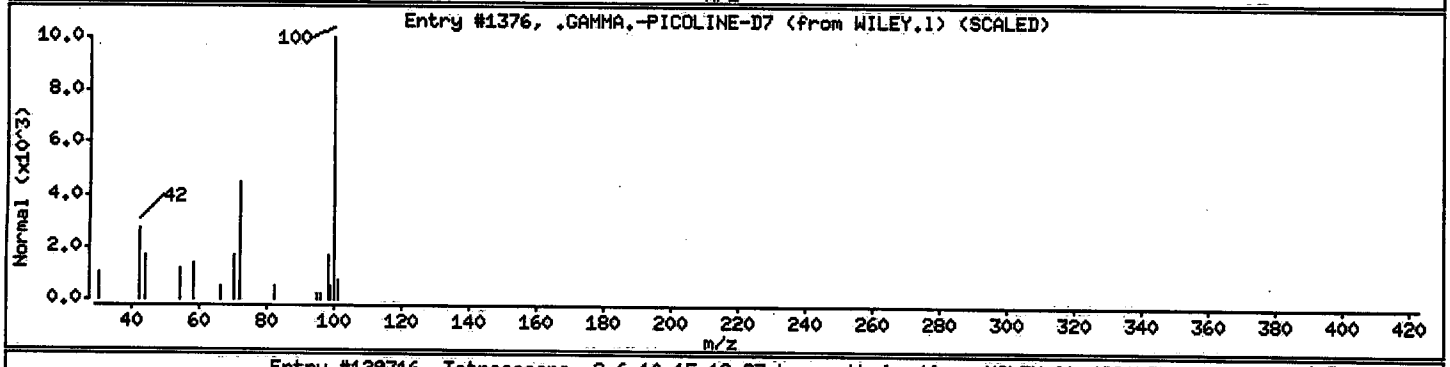
Column phase: ZB-5

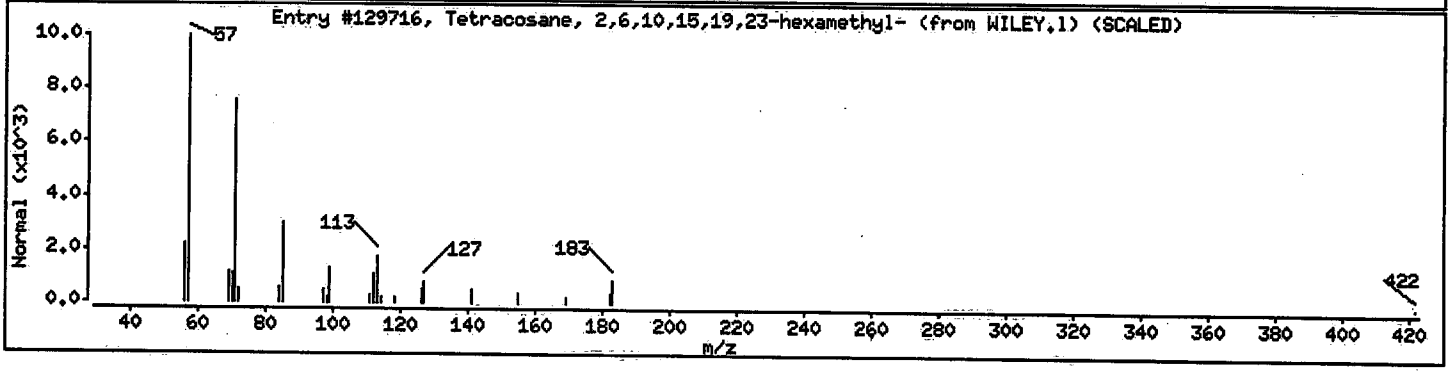
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Morpholineethanamine	2038-03-1	WILEY.l	7278	35	C6H14N2O	130
.GAMMA.-PICOLINE-D7	29372-29-0	WILEY.l	1376	35	C6D7N	93
Tetracosane, 2,6,10,15,19,23-hexamethyl-	111-01-3	WILEY.l	129716	27	C30H62	422









Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

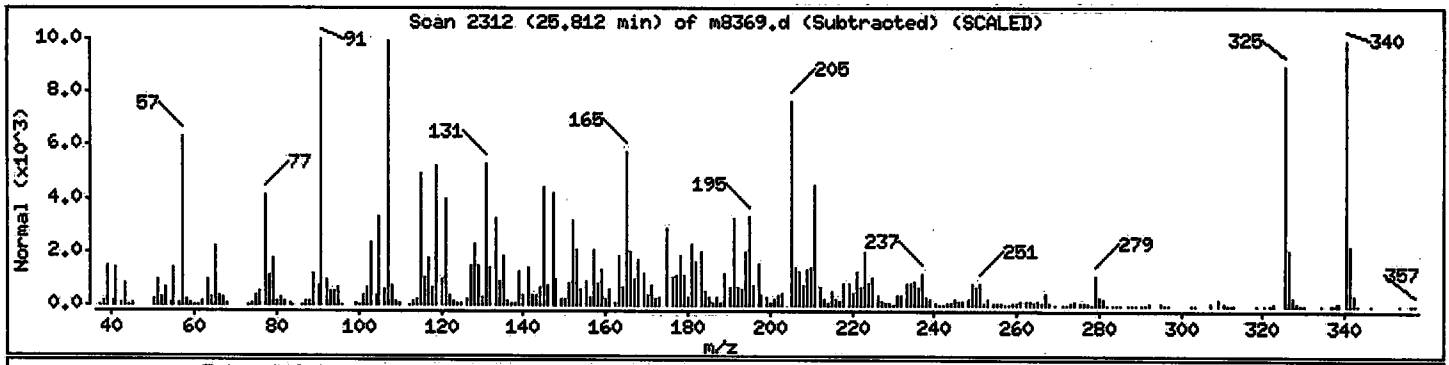
Volume Injected (uL): 2.0

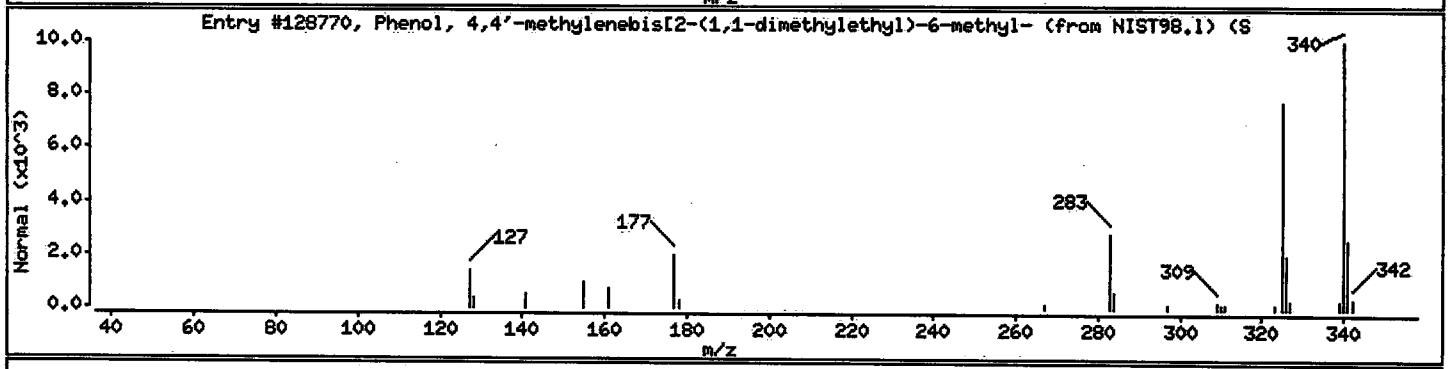
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	NIST98.l	128770	55	C23H3202	340





Data File: /var/chem/molly.i/0307184m1r.b/m8369.d

Date : 18-JUL-2003 19:06

Client ID:

Instrument: molly.i

Sample Info: 0307090-05A

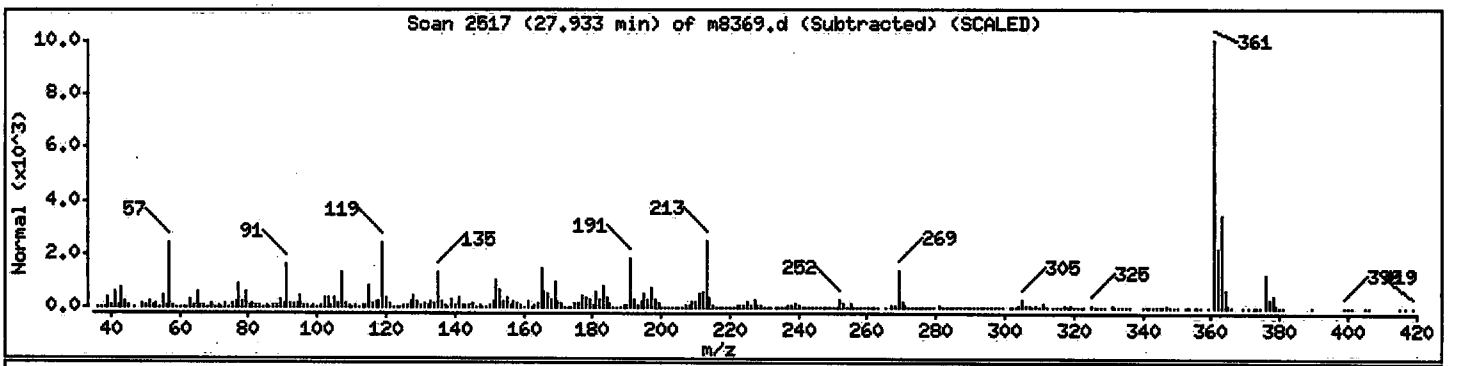
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8369.d
Lab Smp Id: 0307090-05A
Inj Date : 18-JUL-2003 19:06
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05A
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 21-Jul-2003 10:54 kkuhrt Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.65000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.500	1080059	40.000
* 47 Acenaphthene-d10	16.569	1698399	40.000
* 65 Phenanthrene-d10	19.540	10918997	40.000
* 77 Chrysene-d12	24.818	5164860	40.000
* 84 Perylene-d12	26.961	1055214204	40.000

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.418	7899827	292.569952	93500	56	NIST98.1	109755	11
3',5'-Dimethoxyacetophenone					CAS #: 39151-19-4		
16.372	672768	15.8447470	5060	78	NIST98.1	72720	47
Butylated Hydroxytoluene					CAS #: 128-37-0		
16.817	2037261	47.9807191	15300	98	NIST98.1	84224	47
Nonadecane					CAS #: 629-92-5		
20.347	3779284	13.8448033	4420	92	NIST98.1	16515	65
Phenol, 3,5-bis(1,1-dimethylethyl)-					CAS #: 1138-52-9		
21.185	3299168	12.0859744	3860	53	NIST98.1	125779	65
Oxirane, [(dodecyloxy)methyl]-					CAS #: 2461-18-9		
21.247	4113072	15.0675827	4810	49	WILEY.1	52749	65
Heneicosane					CAS #: 629-94-7		
21.961	1333100	4.88359890	1560	93	NIST98.1	112581	65
Cyclohexene, 3-methyl-					CAS #: 591-48-0		
22.231	8033676	62.2179547	19900	43	WILEY.1	115129	77
Bis(4-isocyanatocyclohexyl)methane					CAS #: 0-00-0		
22.365	11624057	90.0241806	28800	50	WILEY.1	60134	77
1-Propene, 3-ethoxy-2-methyl-					CAS #: 24309-28-2		
23.638	3624056	28.0670211	8970	47	WILEY.1	2080	77
Abieta-8,11,13-trien-7-one					CAS #: 26920-03-6		
24.207	4690703	36.3278242	11600	45	WILEY.1	67962	77
4-Morpholineethanamine					CAS #: 2038-03-1		
24.911	3174733	24.5871729	7860	35	WILEY.1	7278	77
Phenol, 4,4'-methylenebis[2-(1,1-dimethy					CAS #: 96-65-1		
25.812	51363416	397.791342	127000	55	NIST98.1	128770	77
Unknown					CAS #:		
27.933	1.416e+08	5.36685407	1710	0		0	84

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-06A **Sample Type:** SAMP **Matrix:** Solid

Client Sample ID: BBW-ML-02
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1'-Biphenyl	86.0	J	31.7	620	µg/Kg	1	7/17/2003 4:02:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		44.5	620	µg/Kg	1			
1,2-Dichlorobenzene	ND		52.2	620	µg/Kg	1			
1,3-Dichlorobenzene	ND		75.5	620	µg/Kg	1			
1,4-Dichlorobenzene	ND		69.6	620	µg/Kg	1			
2,2'-Oxybis(1-chloropropane)	ND		46.7	620	µg/Kg	1			
2,4,5-Trichlorophenol	ND		41.9	1560	µg/Kg	1			
2,4,6-Trichlorophenol	ND		53.9	620	µg/Kg	1			
2,4-Dichlorophenol	ND		43.2	620	µg/Kg	1			
2,4-Dimethylphenol	139	J	119	620	µg/Kg	1			
2,4-Dinitrophenol	ND		140	620	µg/Kg	1			
2,4-Dinitrotoluene	ND		77.7	620	µg/Kg	1			
2,6-Dinitrotoluene	ND		48.4	620	µg/Kg	1			
2-Chloronaphthalene	ND		40.2	620	µg/Kg	1			
2-Chlorophenol	ND		50.3	620	µg/Kg	1			
2-Methylnaphthalene	537	J	60.8	620	µg/Kg	1			
2-Methylphenol	166	J	65.7	620	µg/Kg	1			
2-Nitroaniline	ND		65	1560	µg/Kg	1			
2-Nitrophenol	ND		61.4	620	µg/Kg	1			
3,3'-Dichlorobenzidine	ND		563	1560	µg/Kg	1			
3-Nitroaniline	ND		227	1560	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		71.9	1560	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		50.7	620	µg/Kg	1			
4-Chloro-3-methylphenol	ND		69.1	620	µg/Kg	1			
4-Chloroaniline	ND		216	620	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		58.4	620	µg/Kg	1			
4-Methylphenol	358	J	58.2	620	µg/Kg	1			
4-Nitroaniline	ND		169	1560	µg/Kg	1			
4-Nitrophenol	ND		85.8	1560	µg/Kg	1			
Acenaphthene	150	J	48.1	620	µg/Kg	1			
Acenaphthylene	ND		42.6	620	µg/Kg	1			
Acetophenone	133	J	44.3	620	µg/Kg	1			
Anthracene	ND		36.8	620	µg/Kg	1			
Atrazine	ND		77.7	620	µg/Kg	1			
Benz(a)anthracene	ND		58.6	620	µg/Kg	1			
Benzaldehyde	ND		310 UJ	563	µg/Kg	1			
Benzo(a)pyrene	ND		44.7	620	µg/Kg	1			

Definitions:

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DF - Dilution Factor
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DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-02
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Lab ID: 0307090-06A **Sample Type:** SAMP **Matrix:** Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		81.9	620	µg/Kg	1			
Benzo(g,h,i)perylene	ND		146	620	µg/Kg	1			
Benzo(k)fluoranthene	ND		105	620	µg/Kg	1			
Benzoic acid	1150	J	145	1560	µg/Kg	1			
Benzyl alcohol	ND		70.6	620	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		46	620	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		47.9	620	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	996	J	72.5	620	µg/Kg	1			
Butyl benzyl phthalate	ND		81.7	620	µg/Kg	1			
Caprolactam	441	J	128	620	µg/Kg	1			
Carbazole	ND		64	620	µg/Kg	1			
Chrysene	ND		51.1	620	µg/Kg	1			
Di-n-butyl phthalate	4130	J	75.5	620	µg/Kg	1			
Di-n-octyl phthalate	ND		76.8	620	µg/Kg	1			
Dibenz(a,h)anthracene	ND		173	620	µg/Kg	1			
Dibenzofuran	313	J	33.4	620	µg/Kg	1			
Diethyl phthalate	ND		76.8	620	µg/Kg	1			
Dimethyl phthalate	ND		37.4	620	µg/Kg	1			
Fluoranthene	903	J	118	620	µg/Kg	1			
Fluorene	242	J	60.8	620	µg/Kg	1			
Hexachlorobenzene	ND		38.1	620	µg/Kg	1			
Hexachlorobutadiene	ND		55.9	620	µg/Kg	1			
Hexachlorocyclopentadiene	ND	J	89.9 UJ	1560	µg/Kg	1			
Hexachloroethane	ND		47.3	620	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		176	620	µg/Kg	1			
Isophorone	ND		38.1	620	µg/Kg	1			
N-Nitrosodi-n-propylamine	ND		56.7	620	µg/Kg	1			
N-Nitrosodimethylamine	ND		45.2	620	µg/Kg	1			
N-Nitrosodiphenylamine	ND		30.2	620	µg/Kg	1			
Naphthalene	302	J	57.8	620	µg/Kg	1			
Nitrobenzene	ND		48.4	620	µg/Kg	1			
Pentachlorophenol	ND		168	1560	µg/Kg	1			
Phenanthrene	2250		52.6	620	µg/Kg	1			
Phenol	2210		43.9	620	µg/Kg	1			
Pyrene	392	J	113	620	µg/Kg	1			
Surr:2,4,6-Tribromophenol	91			32 - 130	%REC	1	7/17/2003 4:02:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	82			27 - 123	%REC	1			

Definitions:

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Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-06A **Sample Type:** SAMP **Matrix:** Solid

Client Sample ID: BBW-ML-02
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	81			36 - 135	%REC	1			
Surr:Nitrobenzene-d5	96			25 - 122	%REC	1			
Surr:Phenol-d5	100			36 - 128	%REC	1			
Surr:Terphenyl-d14	61			51 - 116	%REC	1			

Definitions:

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D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	Weston Solutions, Inc.	**Client Sample ID:**	BBW-ML-02
Lab Order:	0307090	**Alt. Client ID:**	
Project:	START RFP 3481	**Collection Date:**	7/9/2003 1:45:00 PM
Lab ID:	0307090-06A	**Sample Type:** SAMP	**Matrix:** SOLID	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE ORGANICS BY METHOD 8270C
1_8270C_3550B_TCL_S

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.64	120000	BNJ	µg/Kg	1	56	7/17/2003 4:02:00 PM	MOLLY_030717A	
128-37-0	Butylated Hydroxytoluene Unknown	16.91	66000	NJ	µg/Kg	1	97			
112-95-8	Eicosane alkane	21.25	250	NJ	µg/Kg	1	90			
2461-18-9	Oxirane, ((dodecyloxy)methyl)- Unknown	21.32	950	NJ	µg/Kg	1	52			
0-00-0	ETHENYL-CYCLOHEXANE Unknown	22.3	240	NJ	µg/Kg	1	47			
19780-74-6	5-Ethyl-1-nonene Unknown	23.03	250	NJ	µg/Kg	1	50			
75-97-8	2-Butanone, 3,3-dimethyl- Unknown	23.71	460	NJ	µg/Kg	1	43			
249-06-9	5H-Benz(g)indolo(2,3-b)quinoxaline Unknown	24.19	130	NJ	µg/Kg	1	27			
76798-50-0	2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime (25.802) Unknown	25.8	2000	NJ	µg/Kg	1	78			
76798-50-0	2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime (25.833)	25.83	540	NJ	µg/Kg	1	83			
96-65-1	Phenol, 4,4'-methylenebis(2-(1,1-dimethy	25.93	780	NJ	µg/Kg	1	55			
58325-09-0	9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra	26.37	1900	NJ	µg/Kg	1	72			
117-81-7	1,2-Benzenedicarboxylic acid, butyl phthalate	26.51	2000	NJ	µg/Kg	1	64			
1675-54-3	Oxirane, 2,2'-((1-methylethylidene)bis(4 unknown	27.15	310000	NJ	µg/Kg	1	93			
3270-02-8	1-Acetyllysergic acid diethylamide Unknown	27.31	1100	NJ	µg/Kg	1	38			
60366-46-3	4,4',4"-Trinitro-(ortho-terphenyl)	27.42	1600	NJ	µg/Kg	1	39			
70503-39-8	4-Dicyanomethylene-2-(4-dimethylaminosty	27.57	1300	NJ	µg/Kg	1	64			
64938-97-2	5,6-Dihydro-2,10,11-trimethoxy-3H-phenan	27.78	4300	NJ	µg/Kg	1	37			
	Unknown unknown	28.05	13000	J	µg/Kg	1	0			
78147-89-4	cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10-	28.22	2700	NJ	µg/Kg	1	45			
7445-99-0	10H-Phenothiazin-1-ol	28.51	2000	NJ	µg/Kg	1	12			
110-40-7	Decanedioic acid, diethyl ester	29.49	1100	NJ	µg/Kg	1	59			

Number TICs Found: 22

Definitions:

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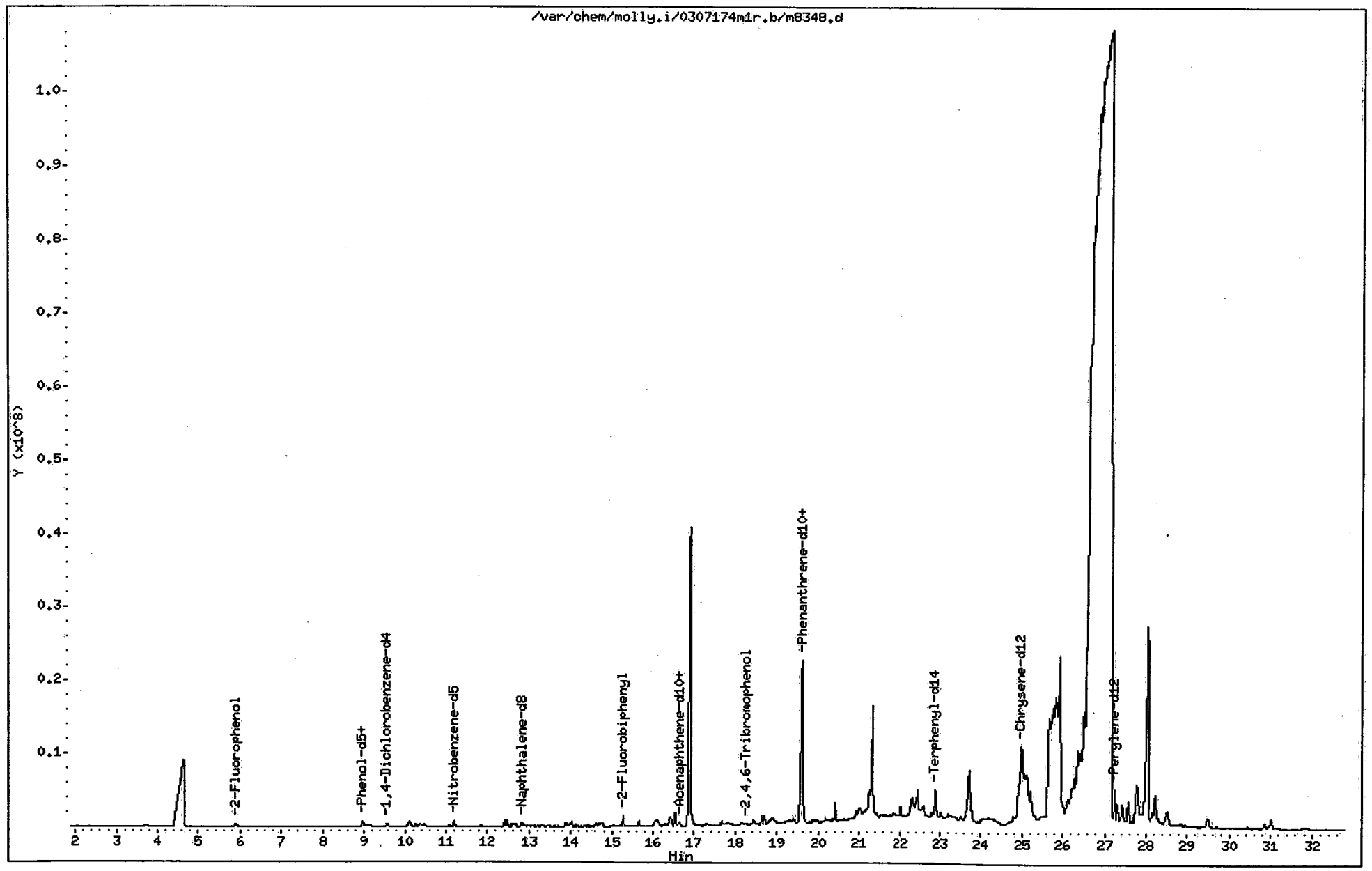
- Limit - Reporting Limit
- NC - Not Calculated for values < RL
- R - RPD outside recovery limits

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Date : 17-JUL-2003 16:02
Client ID:
Sample Info: 0307090-06A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8348.d
Lab Smp Id: 0307090-06A
Inj Date : 17-JUL-2003 16:02
Operator : dce Inst ID: molly.i
Smp Info : 0307090-06A
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.98000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.889	5.879	(0.616)	305737	97.6648	3060
4 Benzaldehyde	77	8.352	8.291	(0.873)	21992	7.39991	232(aQM)
$ 6 Phenol-d5	99	8.973	8.964	(0.938)	537969	119.452	3740
7 Phenol	94	9.118	8.995	(0.953)	359427	70.7776	2210(M)
* 11 1,4-Dichlorobenzene-d4	152	9.563	9.564	(1.000)	99401	40.0000	
15 2-Methylphenol	108	10.670	10.651	(1.116)	18926	5.29711	166(a)
17 Acetophenone	105	10.846	10.827	(1.134)	25607	4.25415	133(a)
18 4-Methylphenol	108	11.074	11.054	(1.158)	44562	11.4327	358
$ 21 Nitrobenzene-d5	82	11.188	11.189	(0.872)	477557	96.0929	3010
25 2,4-Dimethylphenol	107	12.326	12.296	(0.960)	20302	4.43883	139(a)

MOL DCE 7/19/03
KK 7/21/03

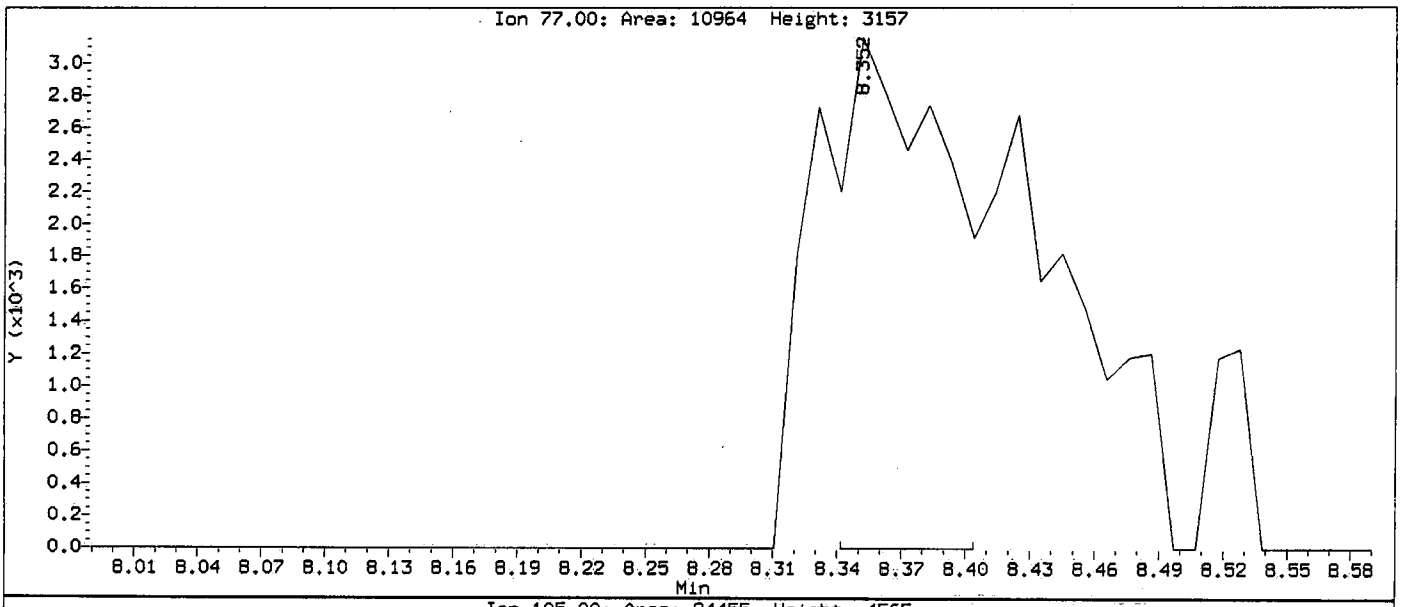
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
	27 Benzoic acid	122	12.647	12.627	(0.985)	78506	36.7820	1150	
*	30 Naphthalene-d8	136	12.834	12.824	(1.000)	365462	40.0000		
	31 Naphthalene	128	12.875	12.876	(1.003)	102566	9.65335	302(a)	
	34 Caprolactam	113	13.879	13.797	(1.081)	16909	14.1099	441	
	36 2-Methylnaphthalene	141	14.417	14.418	(1.123)	108218	17.1548	537	
$	40 2-Fluorobiphenyl	172	15.276	15.277	(0.919)	646320	82.1592	2570	
	42 Biphenyl	154	15.452	15.443	(0.930)	25855	2.74828	86.0(a)	
*	47 Acenaphthene-d10	164	16.622	16.623	(1.000)	232304	40.0000		
	49 Acenaphthene	153	16.694	16.685	(1.004)	35814	4.80143	150(a)	
	52 Dibenzofuran	168	17.046	17.016	(1.026)	107751	10.0072	313(a)	
	55 Fluorene	166	17.740	17.720	(1.067)	67526	7.73309	242(a)	
$	60 2,4,6-Tribromophenol	330	18.267	18.258	(1.099)	116592	109.762	3430(M)	DCE 7/19/03
*	65 Phenanthrene-d10	188	19.613	19.593	(1.000)	521161	40.0000		
	66 Phenanthrene	178	19.665	19.645	(1.003)	1097825	71.7815	2240	
	69 Di-n-butyl phthalate	149	21.031	21.001	(1.072)	2596963	132.116	4130	
	70 Fluoranthene	202	22.107	22.056	(1.127)	539051	28.8605	903(M)	DCE 7/19/03
	72 Pyrene	202	22.511	22.491	(0.912)	657058	12.5265	392	
$	73 Terphenyl-d14	244	22.915	22.895	(0.928)	2002042	60.6569	1900(M)	DCE 7/19/03
*	77 Chrysene-d12	240	24.912	24.861	(1.000)	1902319	40.0000	(QM)	DCE 7/19/03
	79 Bis(2-ethylhexyl)phthalate	149	25.130	25.089	(1.018)	1265660	31.8250	996	
*	84 Perylene-d12	264	27.251	27.004	(1.000)	1077711	40.0000	(QM)	DCE 7/19/03

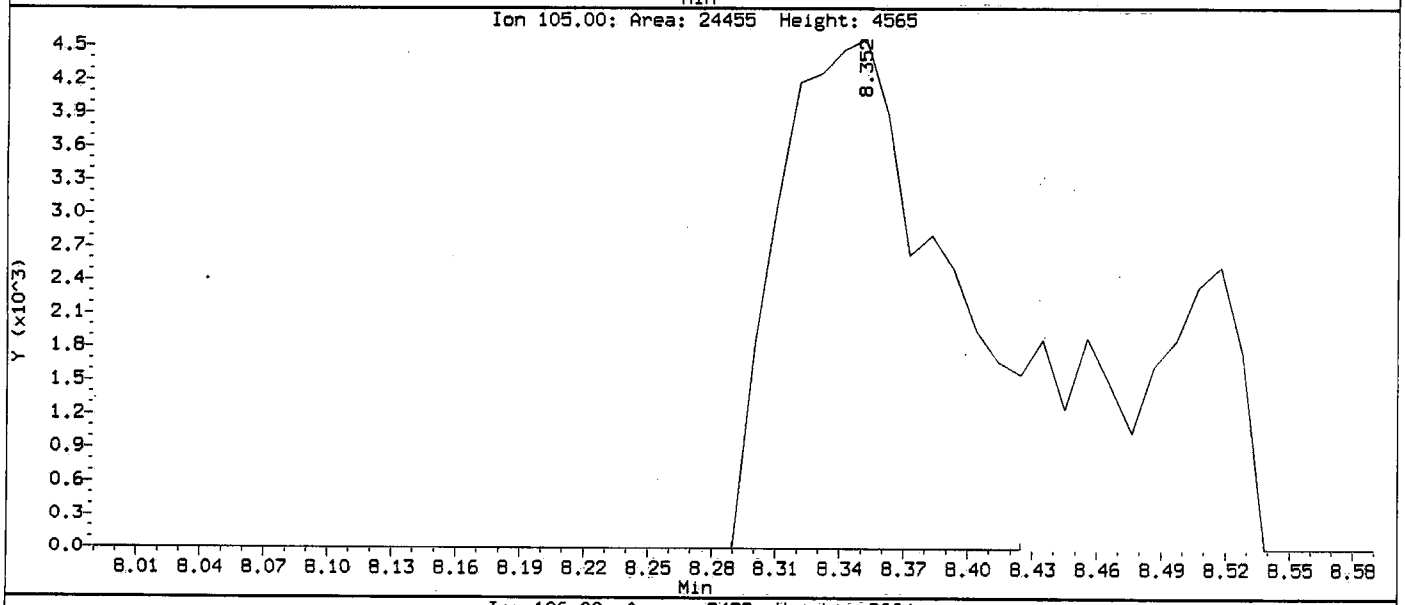
QC Flag Legend

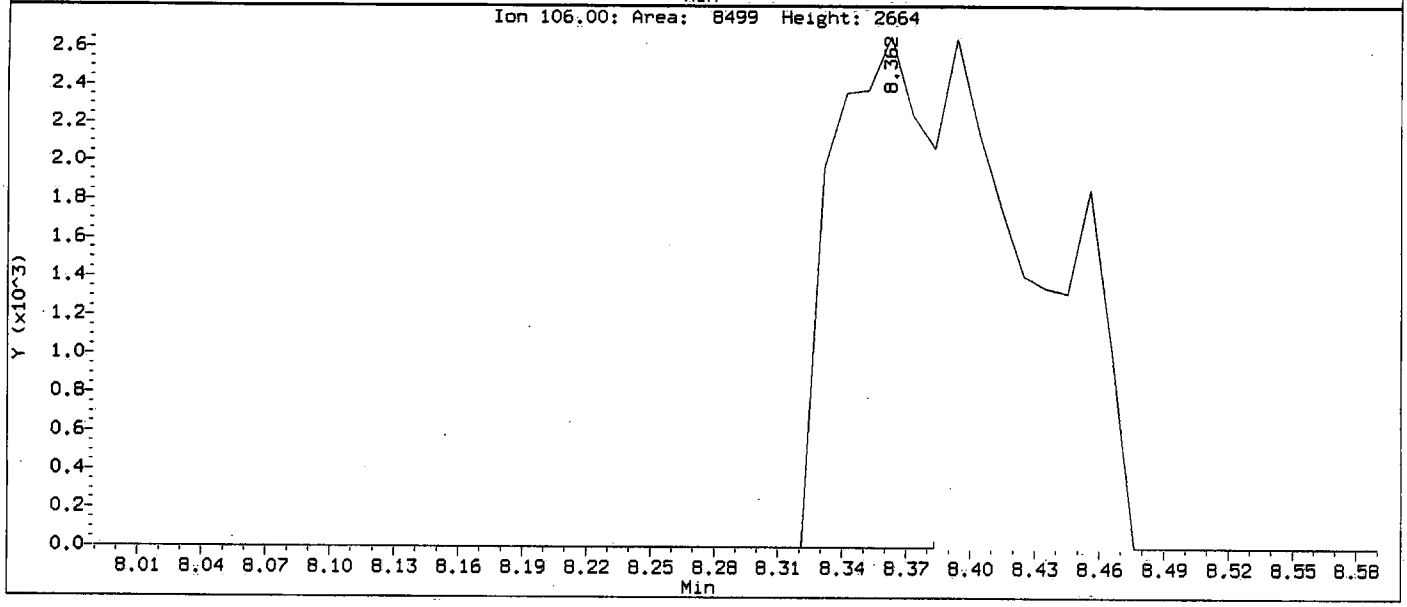
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Benzaldehyde
CAS Number: 100-52-7



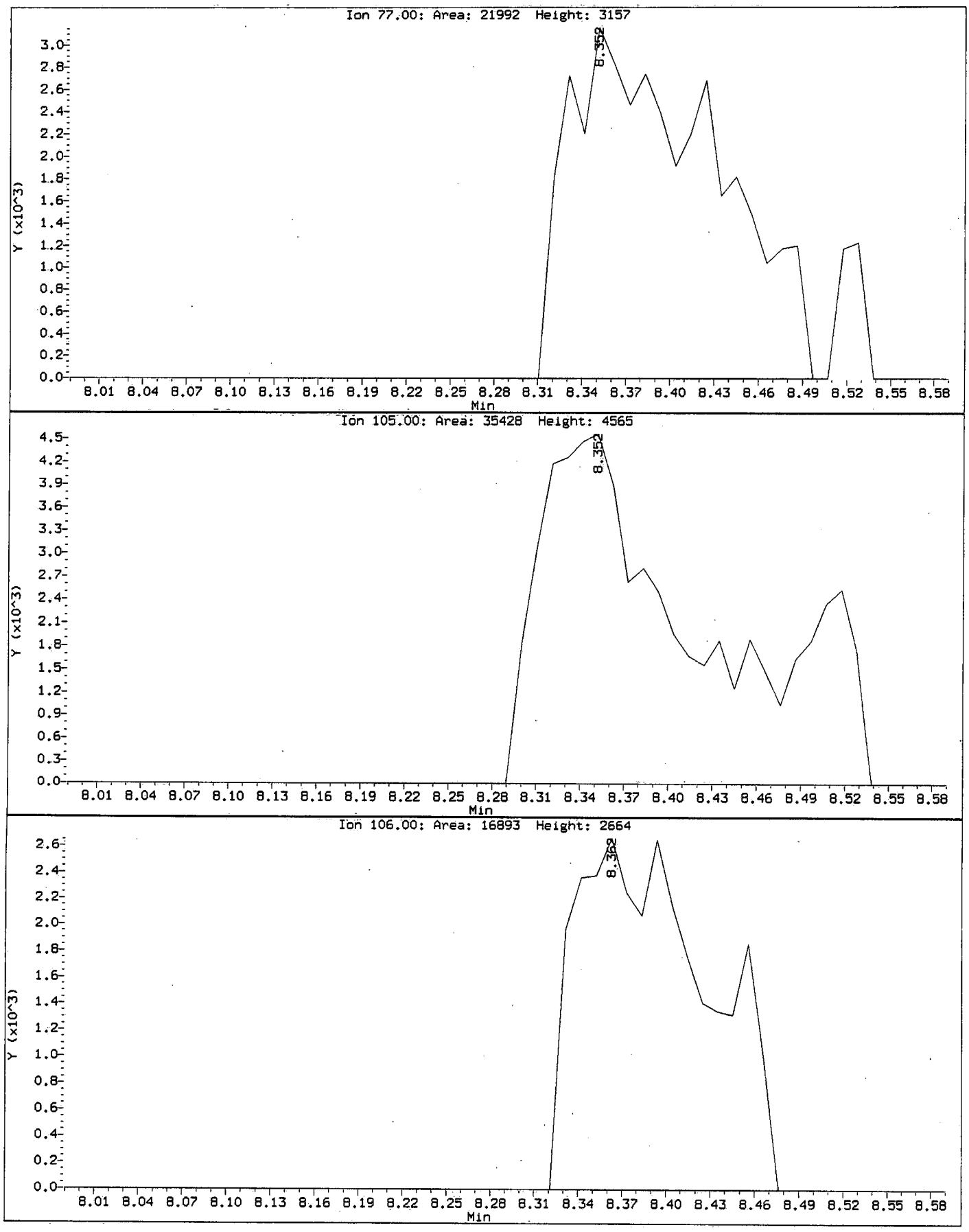




Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Benzaldehyde
CAS Number: 100-52-7

Rel E 7/19/03
integrate entire area
Kathy Kuhnt 7/21/03



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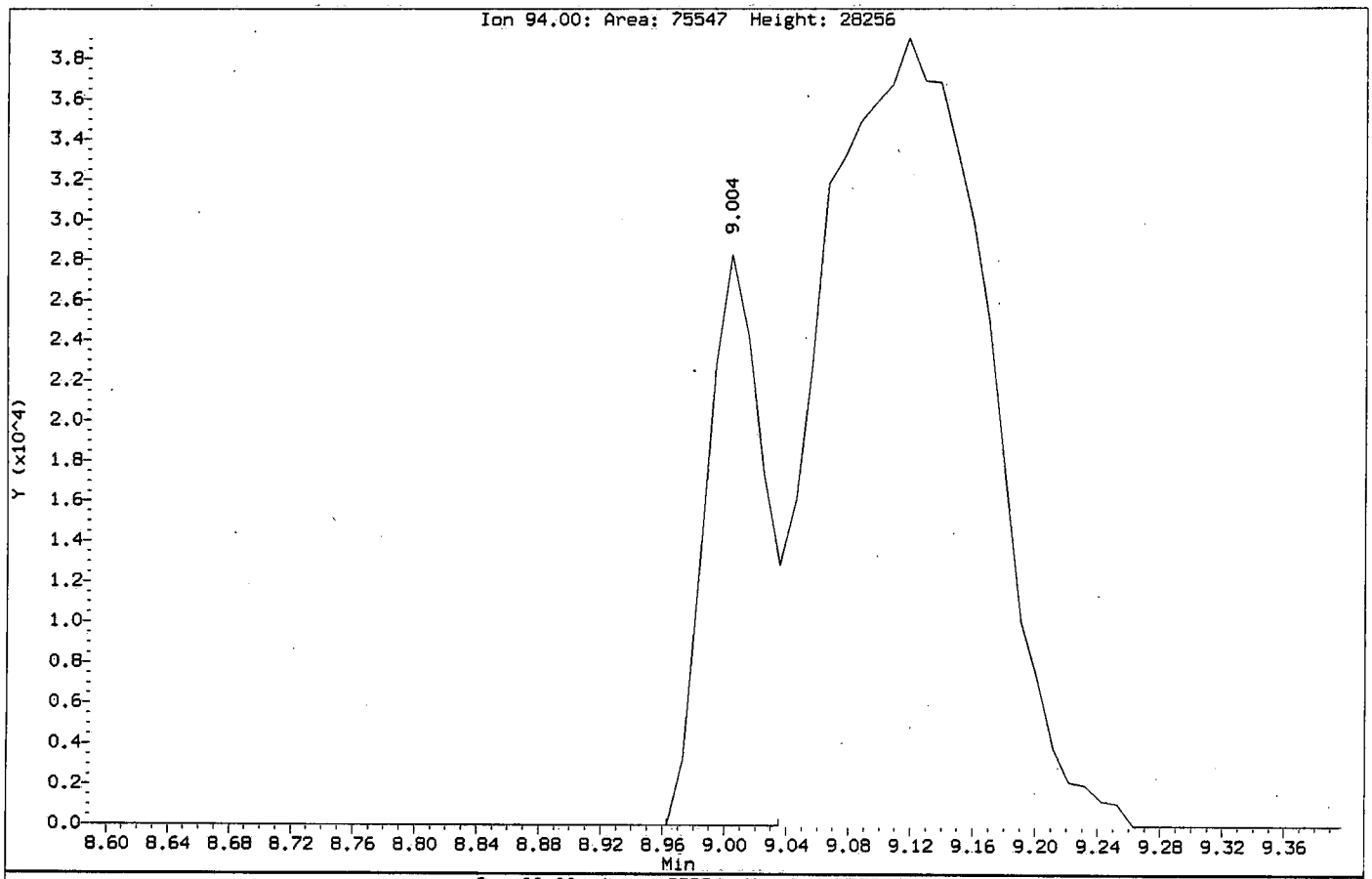
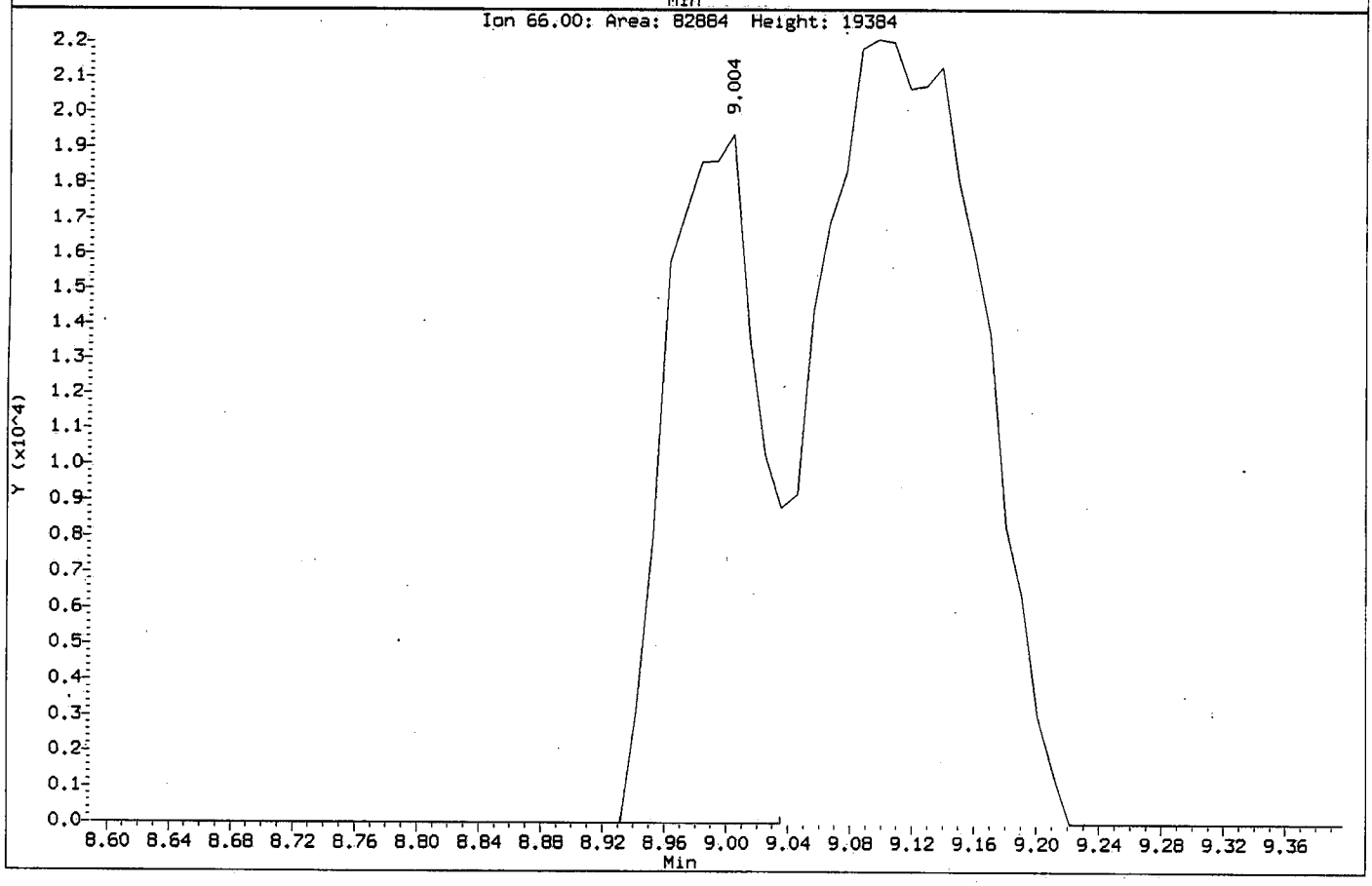
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

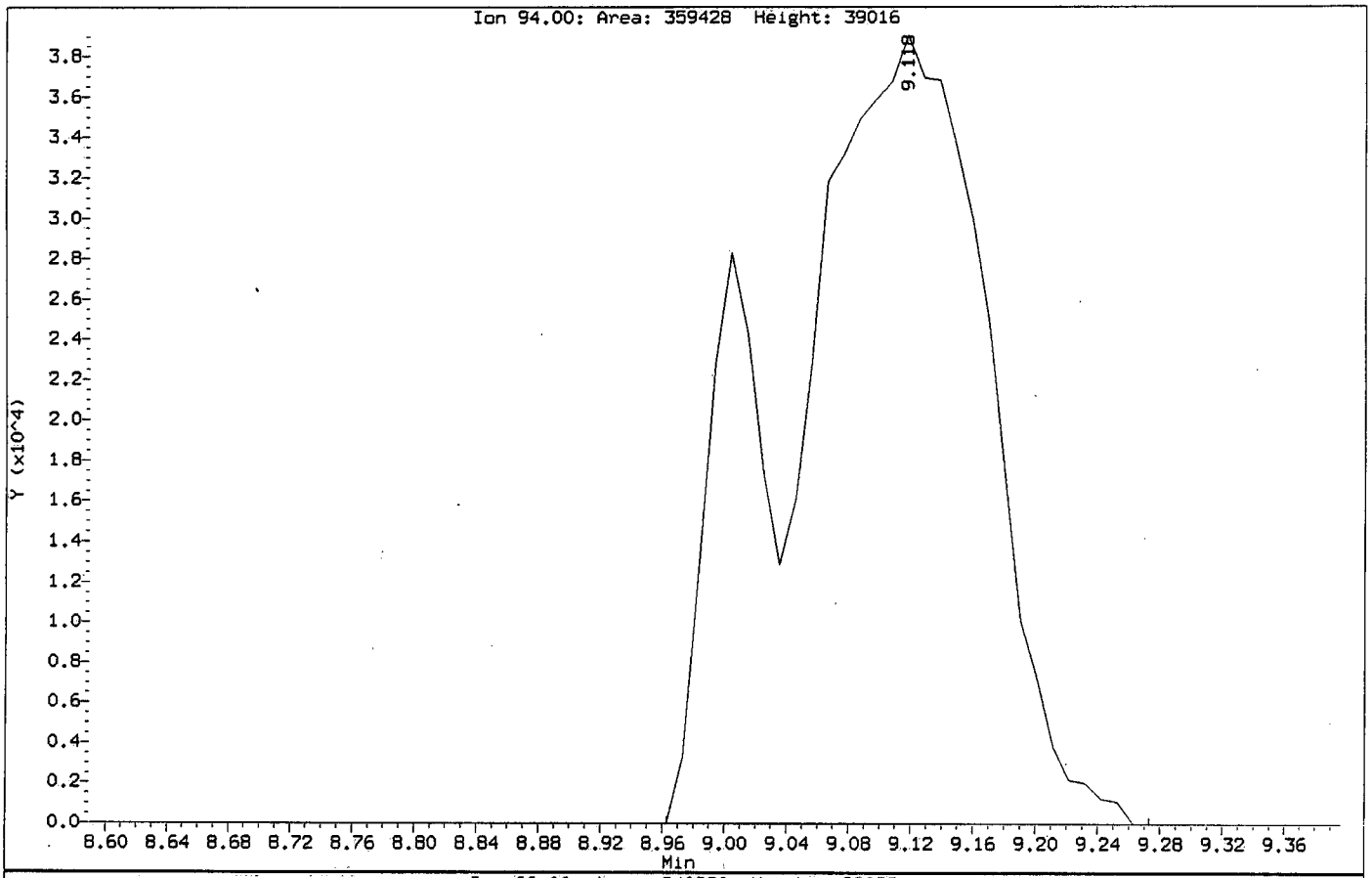


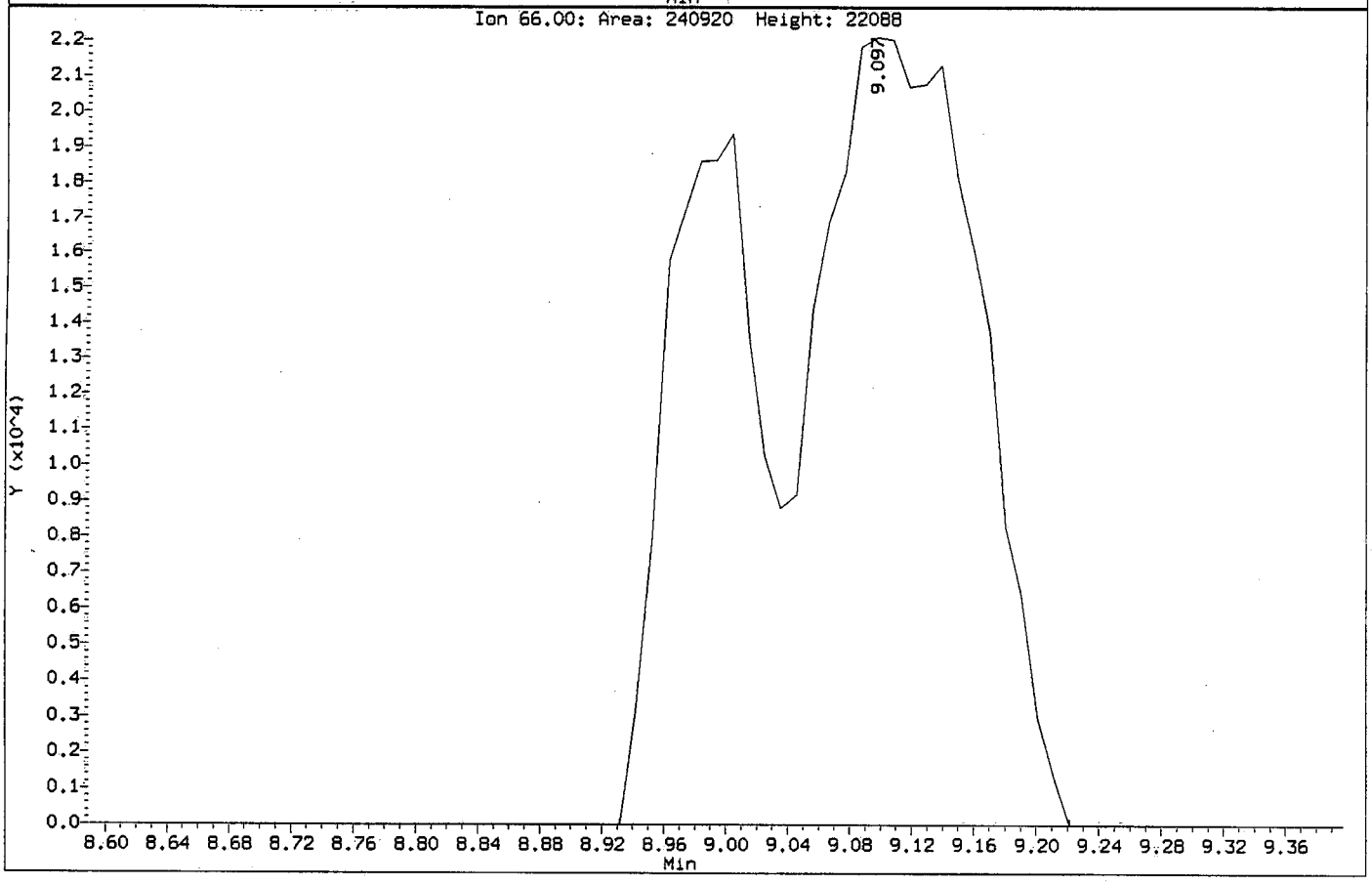


Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

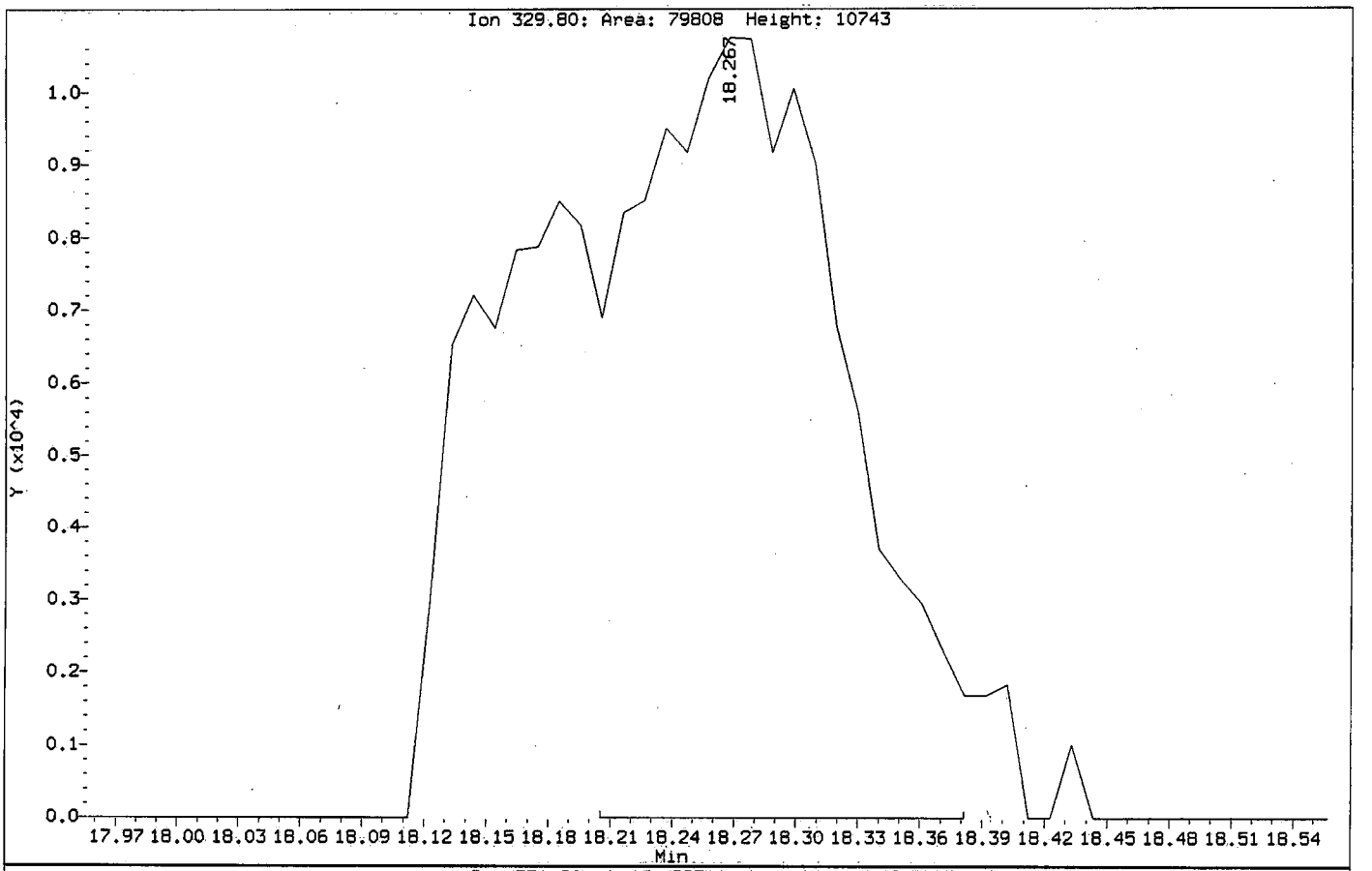
Ark 7/19/03
integrate entire area
Kathy Kurt 7/21/03

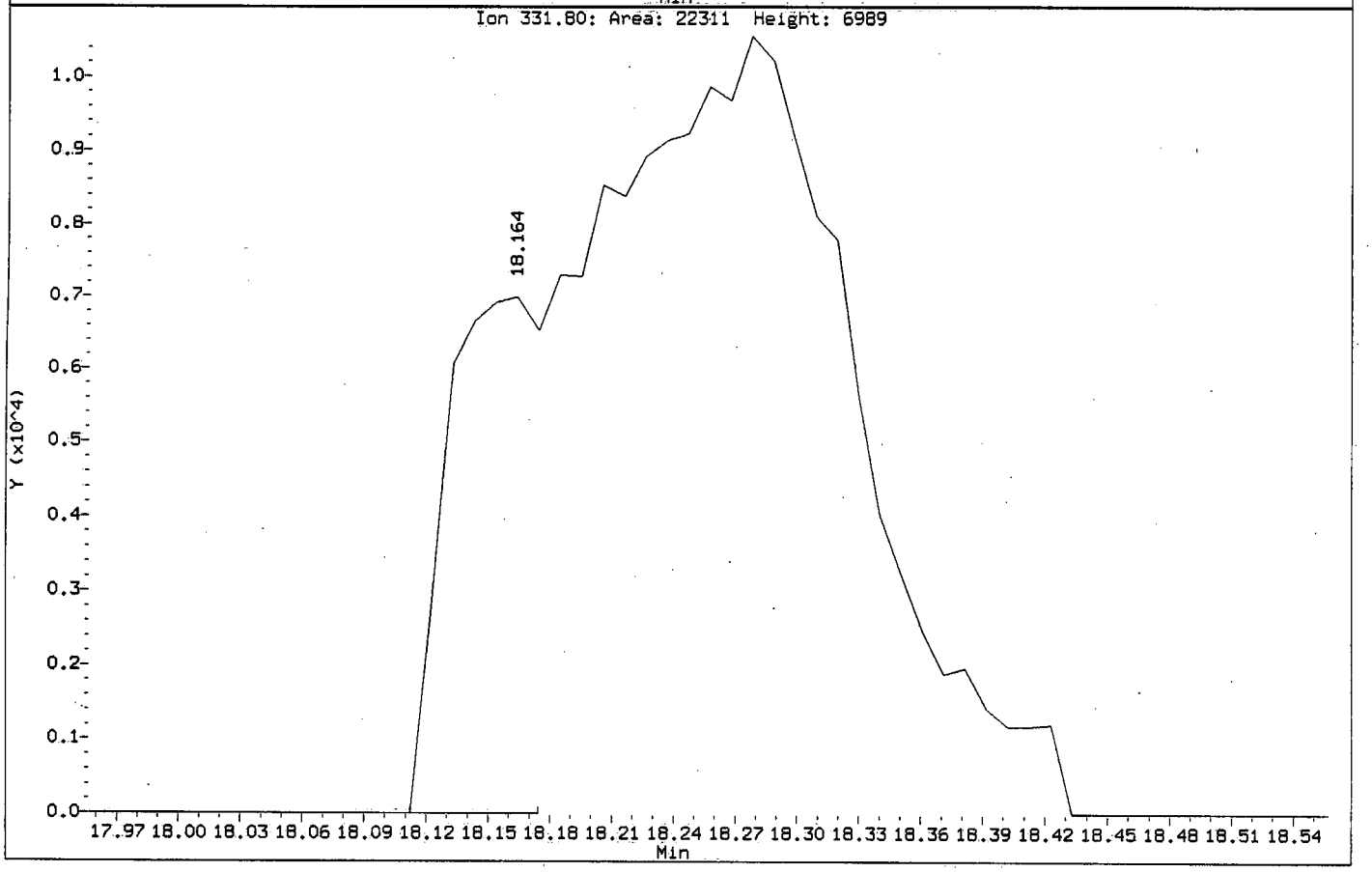




Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6

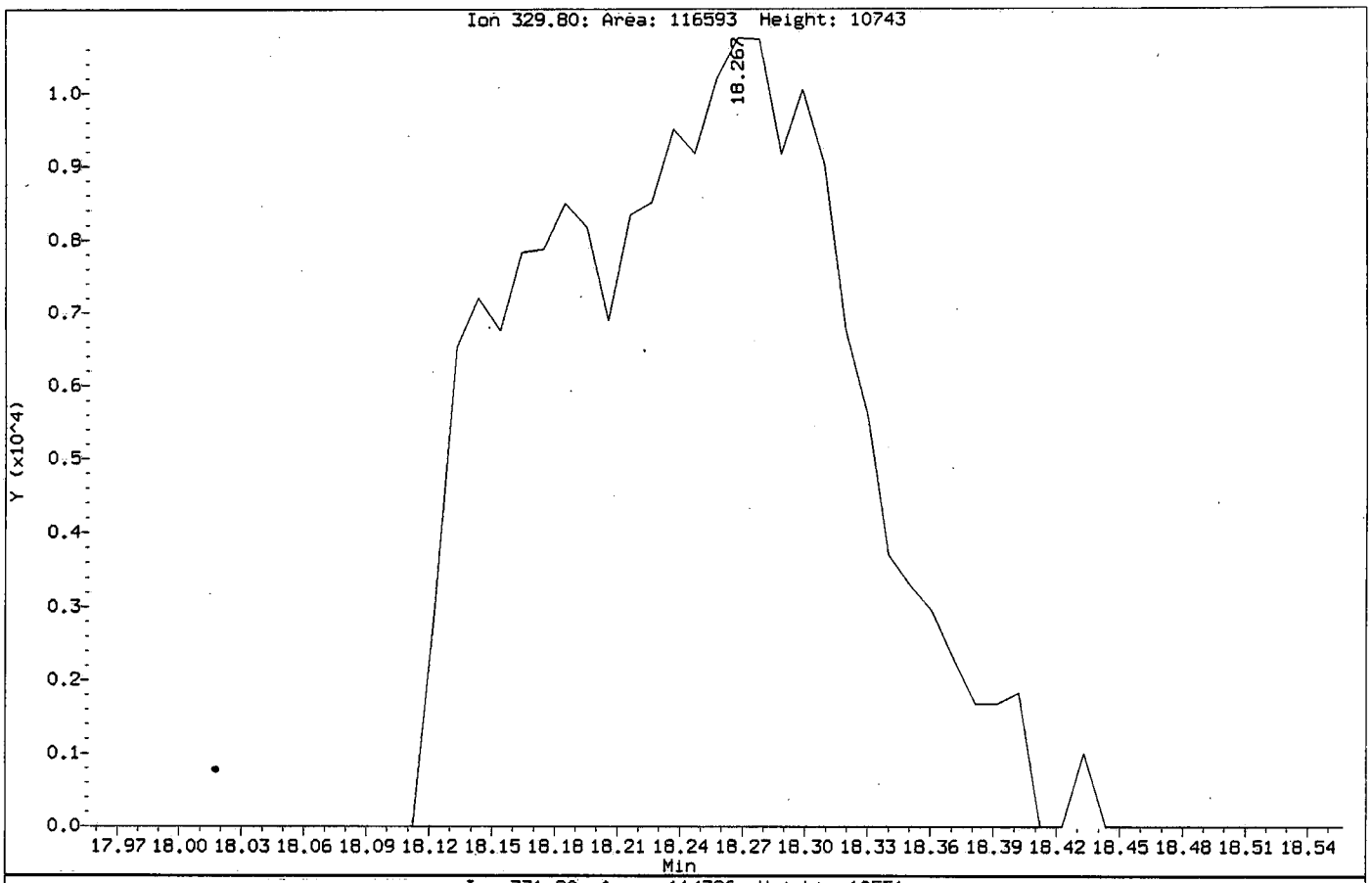


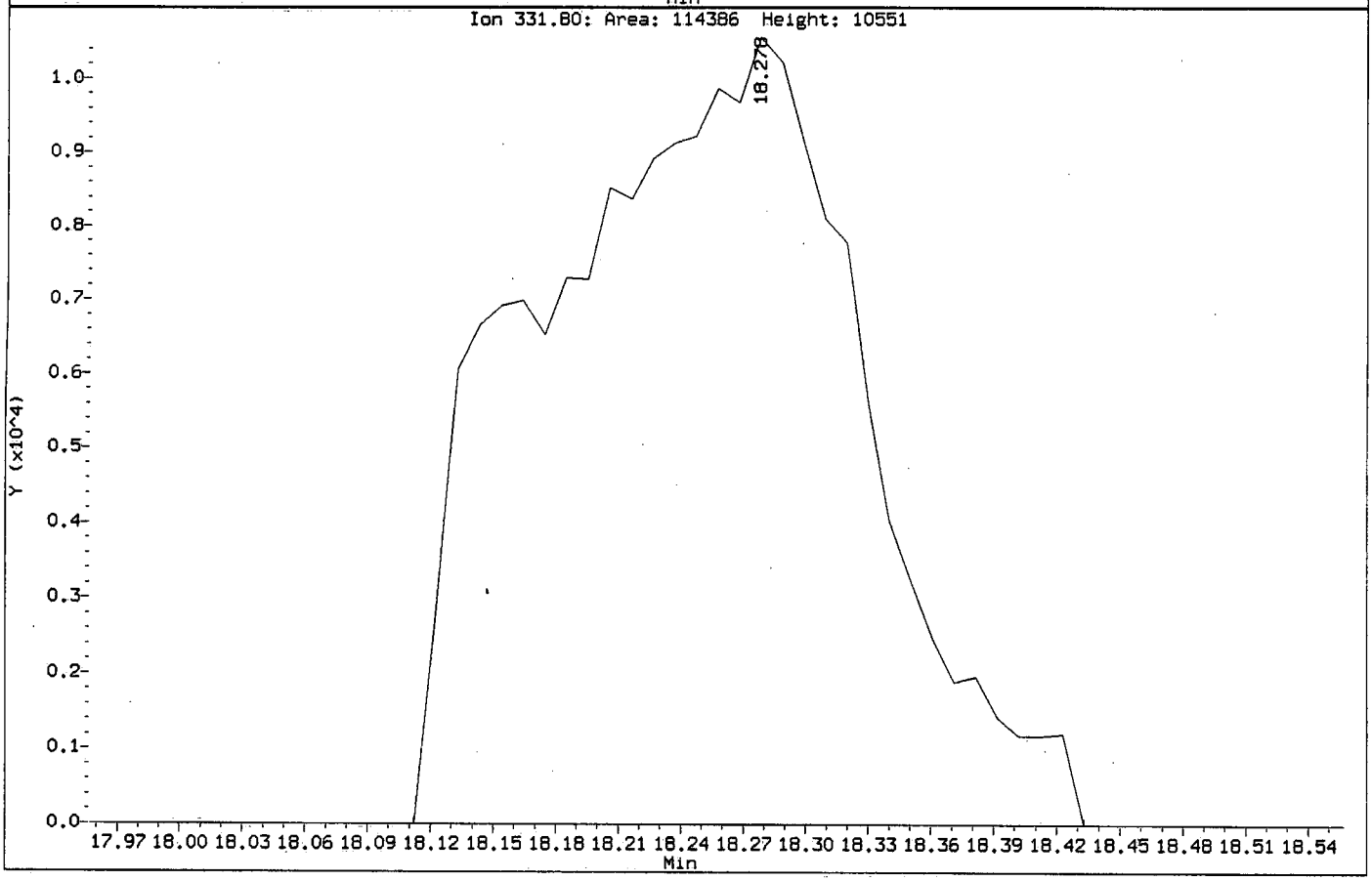


MLR 7/19/03
integrate entire area
Kathy Kurt 7/21/03

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

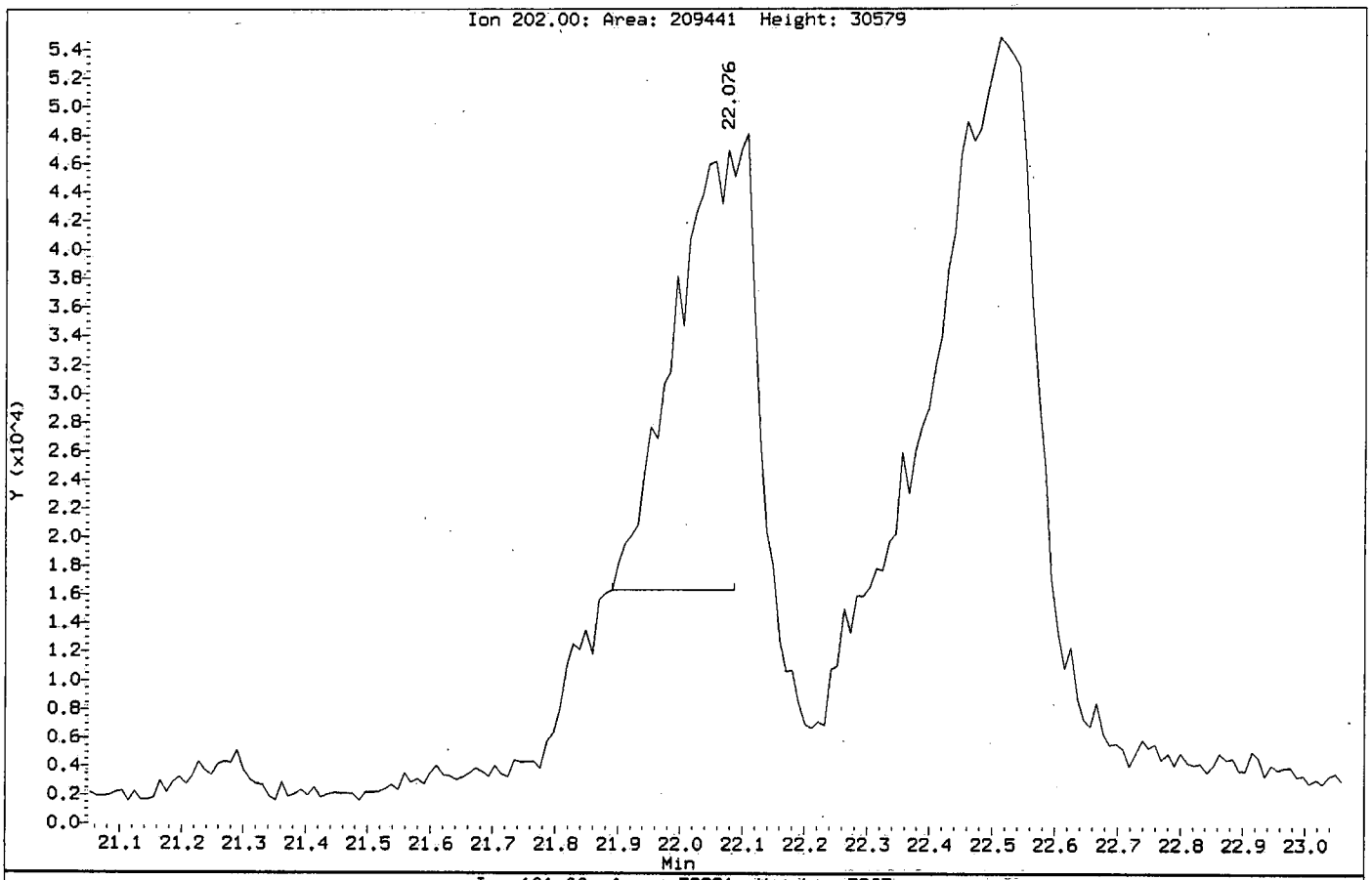
Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6

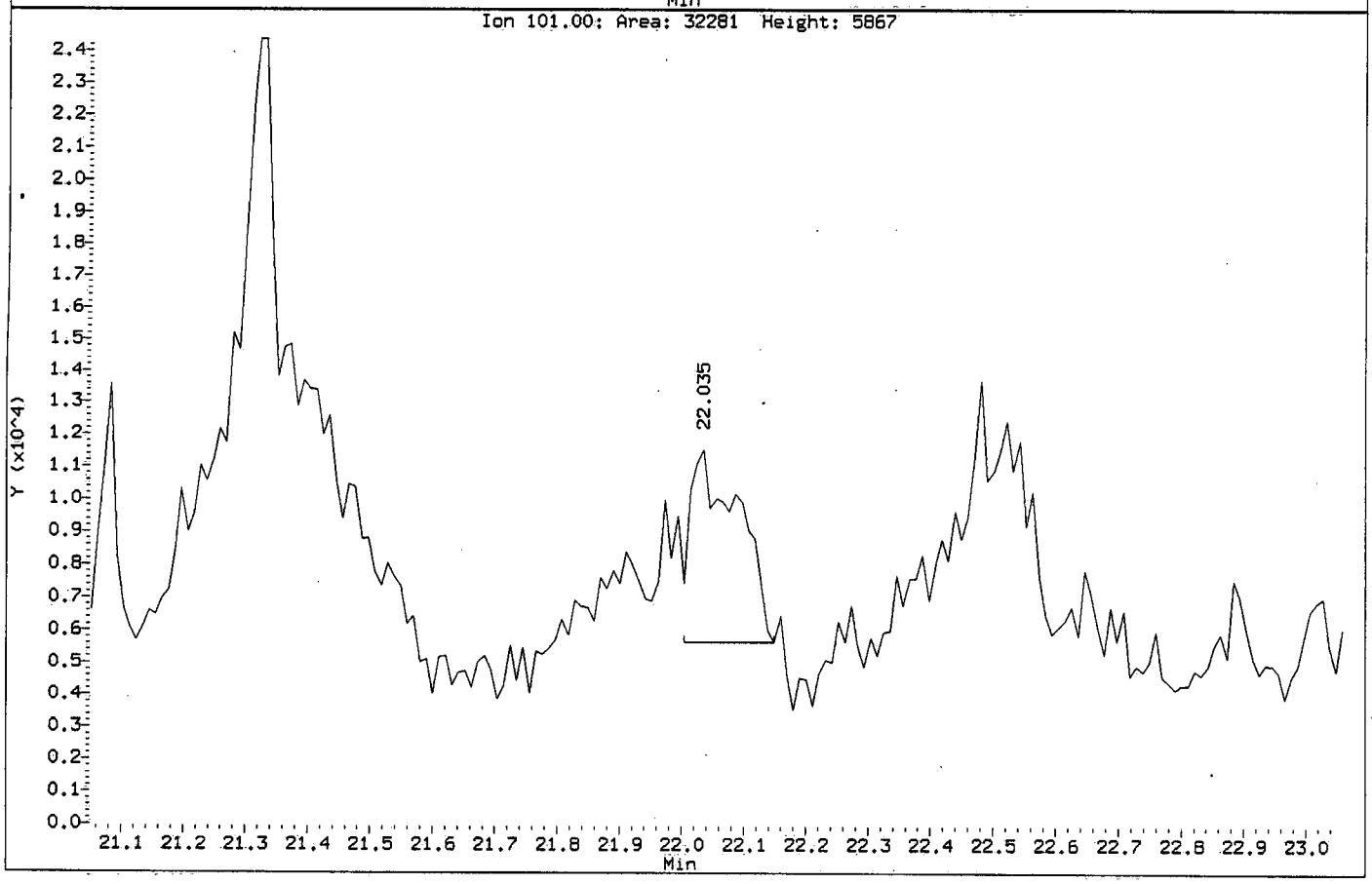




Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Fluoranthene
CAS Number: 206-44-0

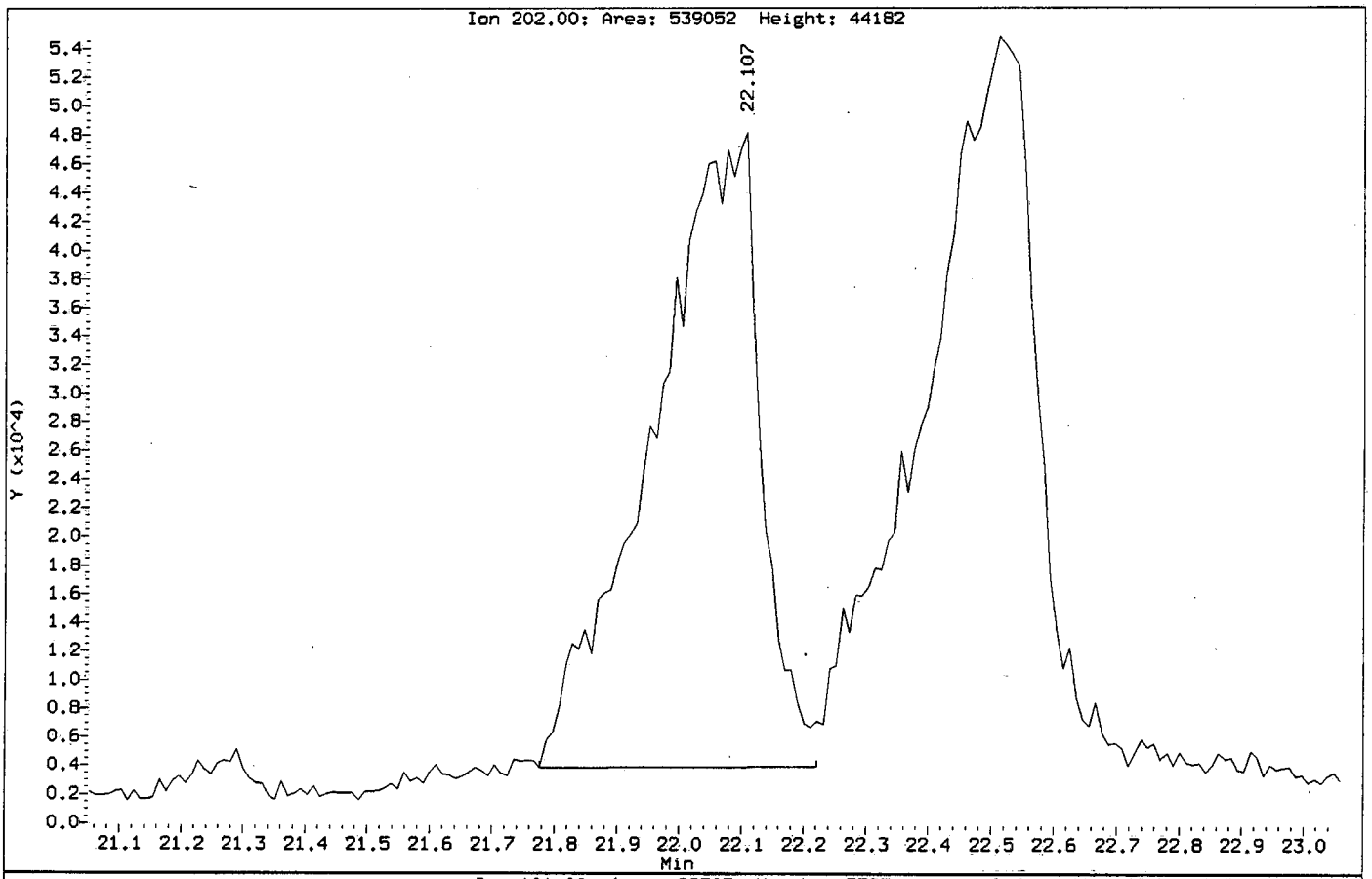


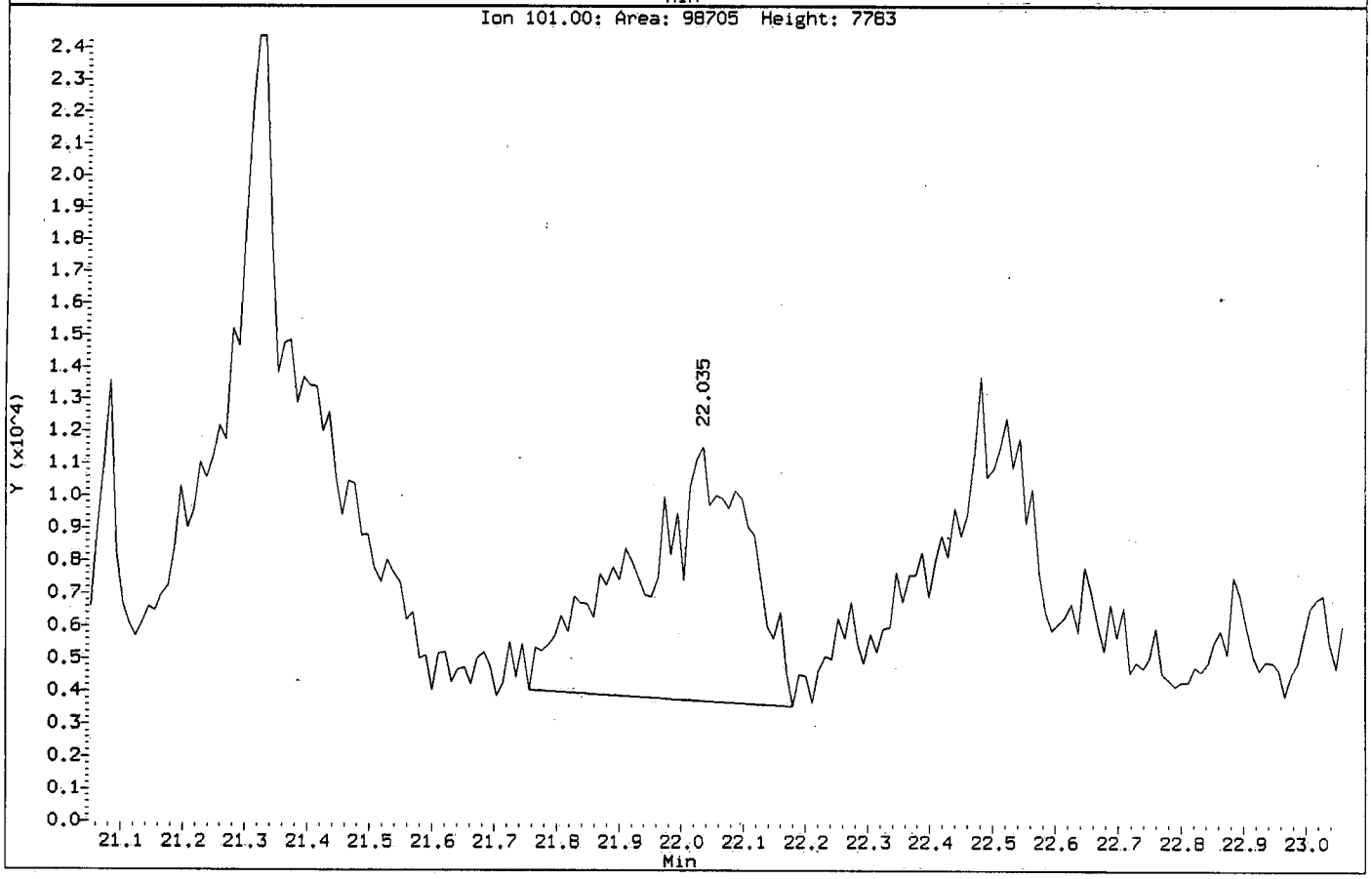


Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Fluoranthene
CAS Number: 206-44-0

Mike E 7/19/03
integrate the entire area
AEE 7/19/03
Kathy Kurt 7/21/03





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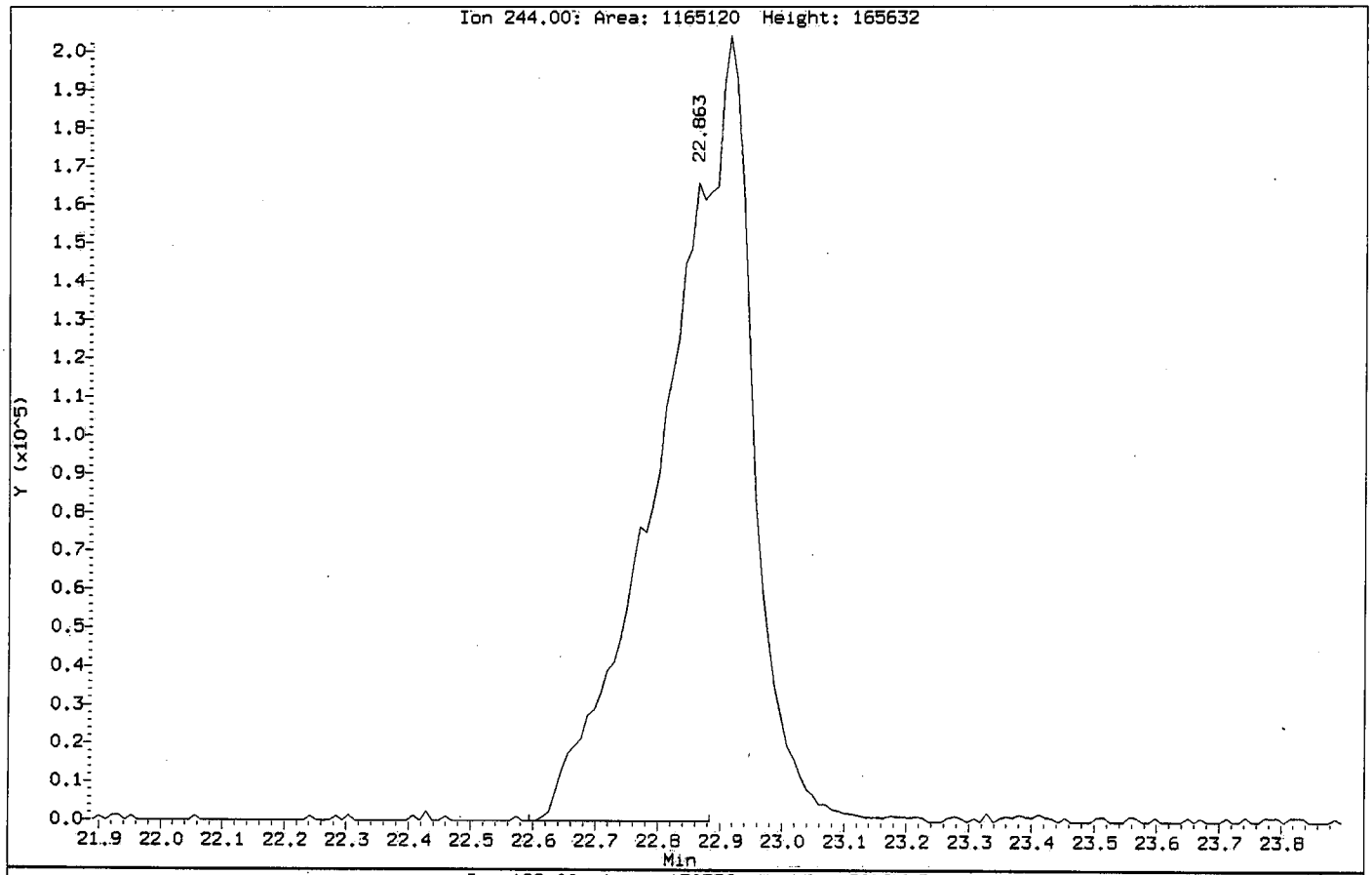
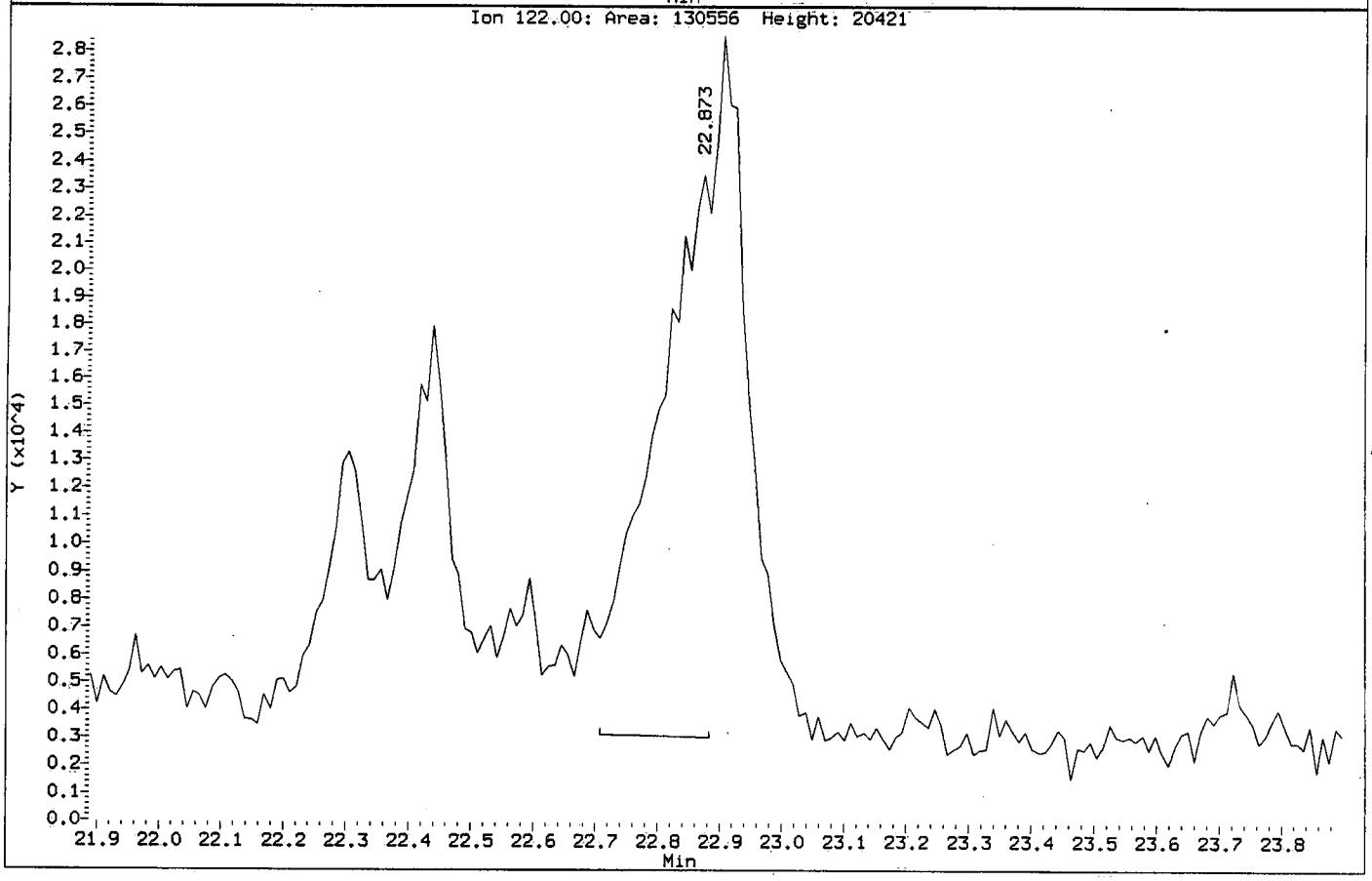
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

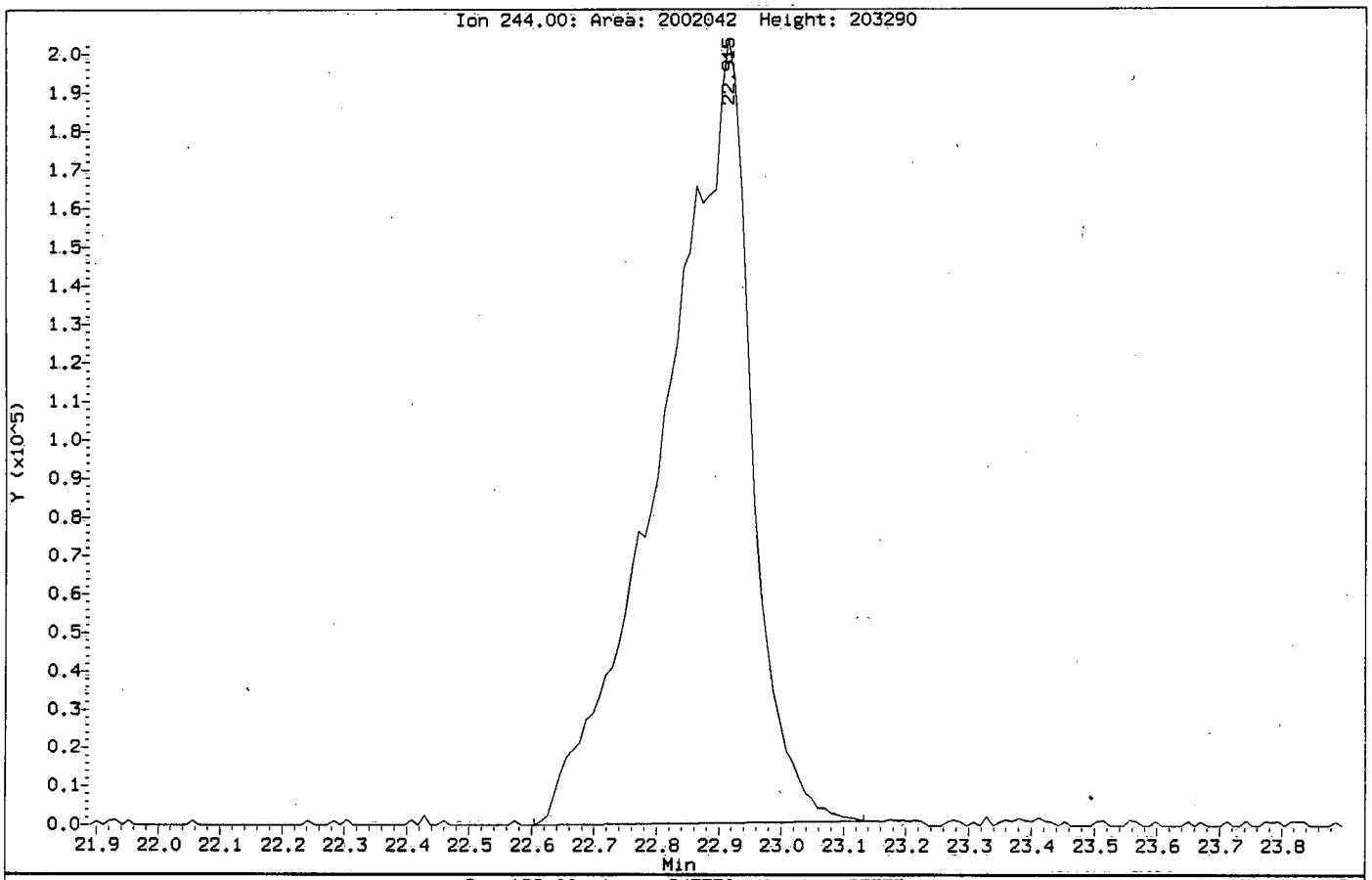


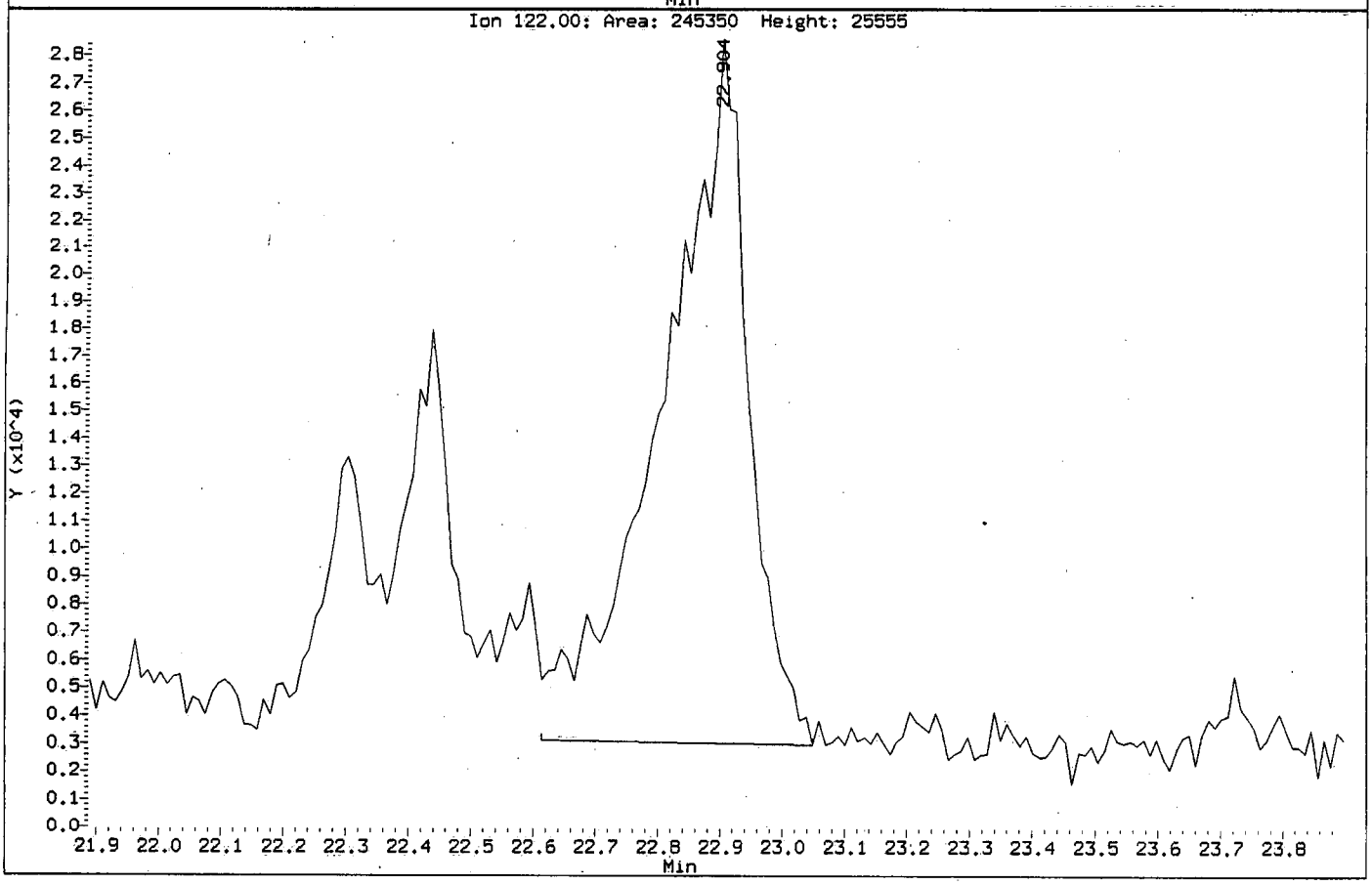


Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Terphenyl-d14
CAS Number: 98904-43-9

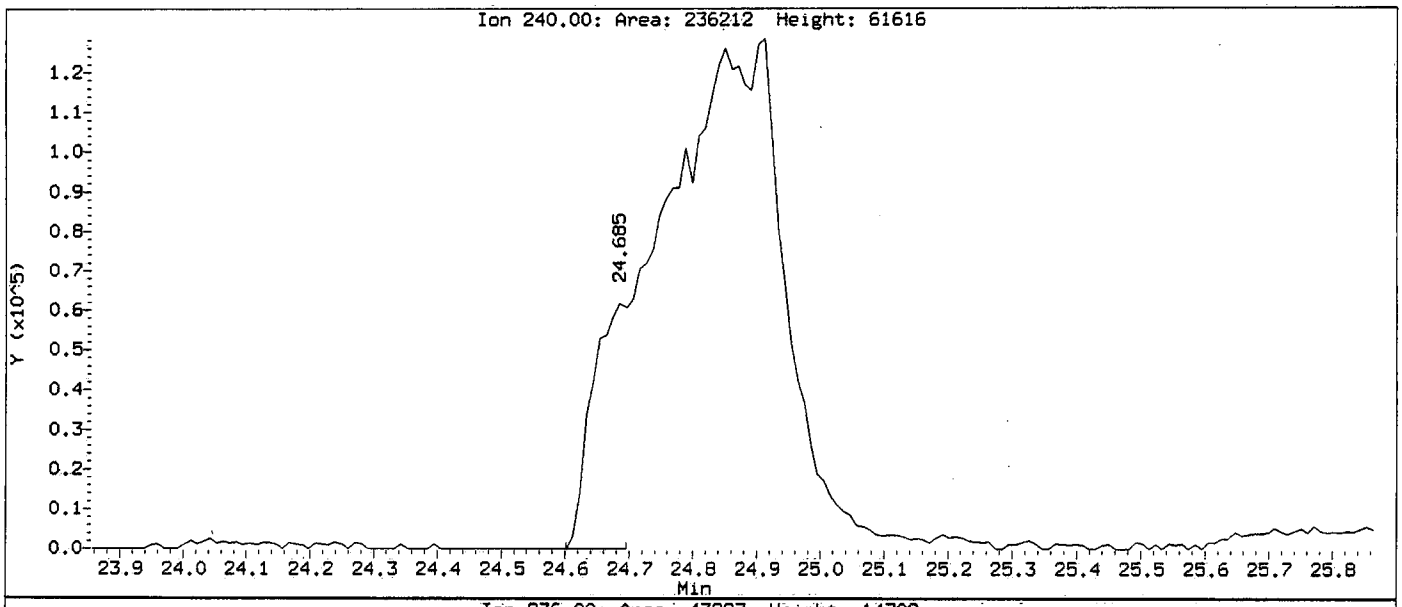
[illegible] 7/19/03
integrate entire area
Kathy Kurbut
7/21/03

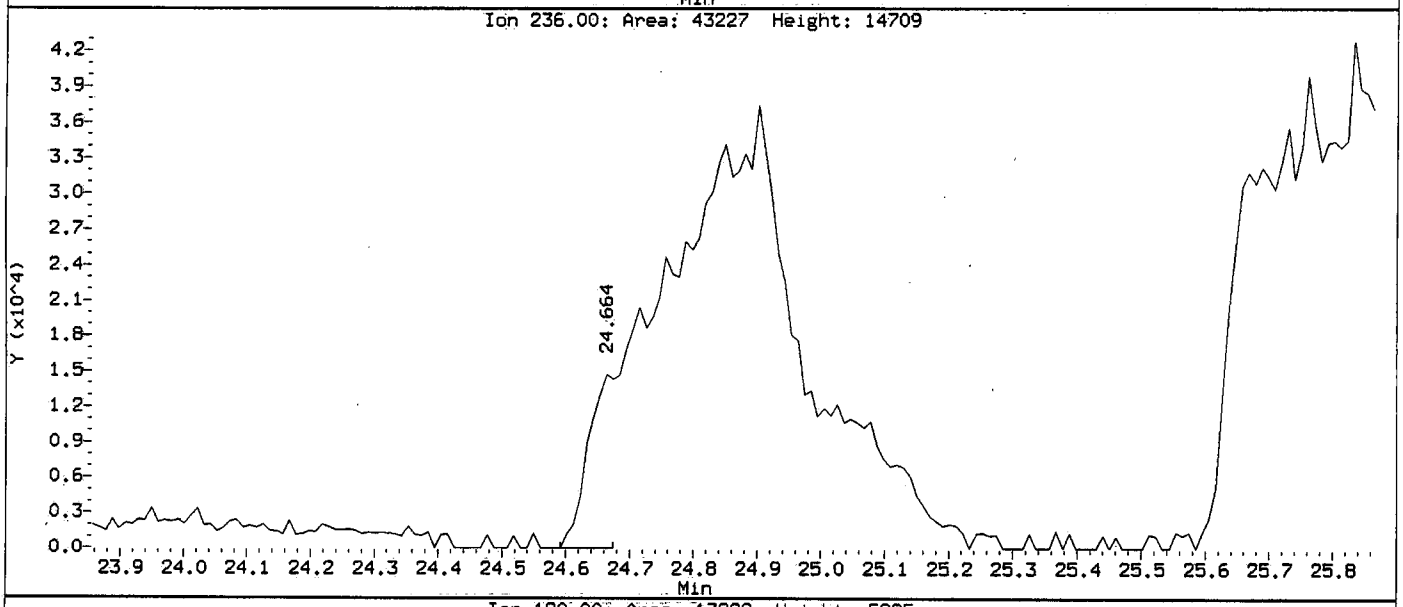


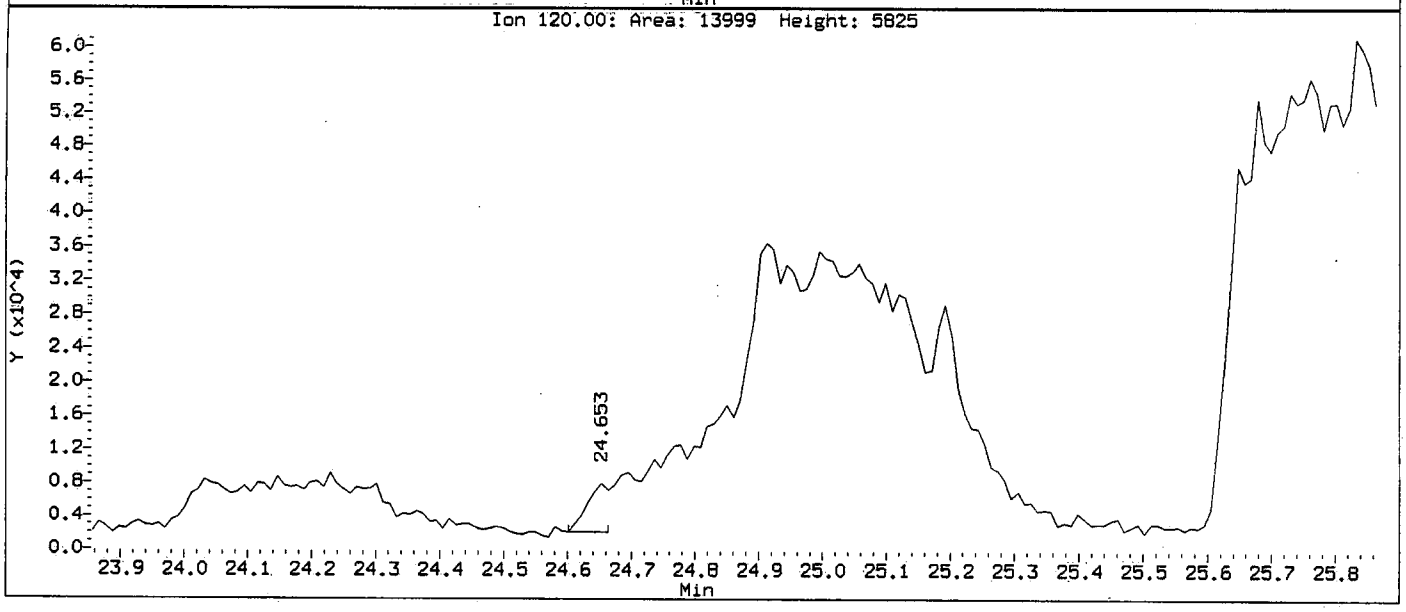


Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5



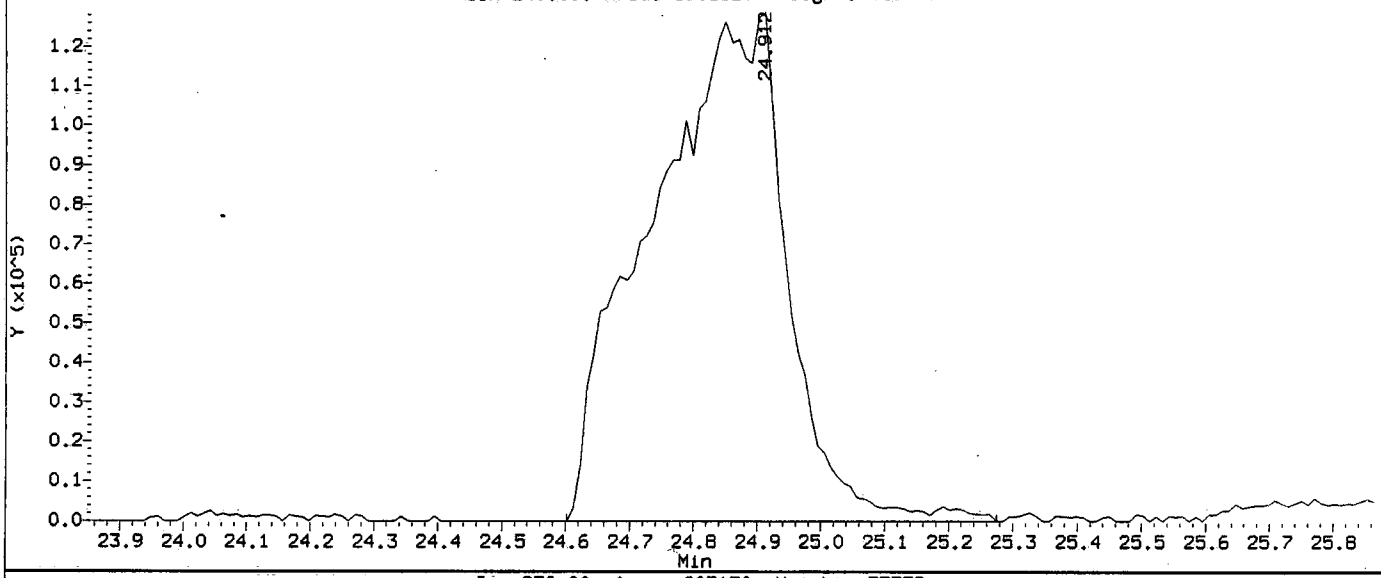




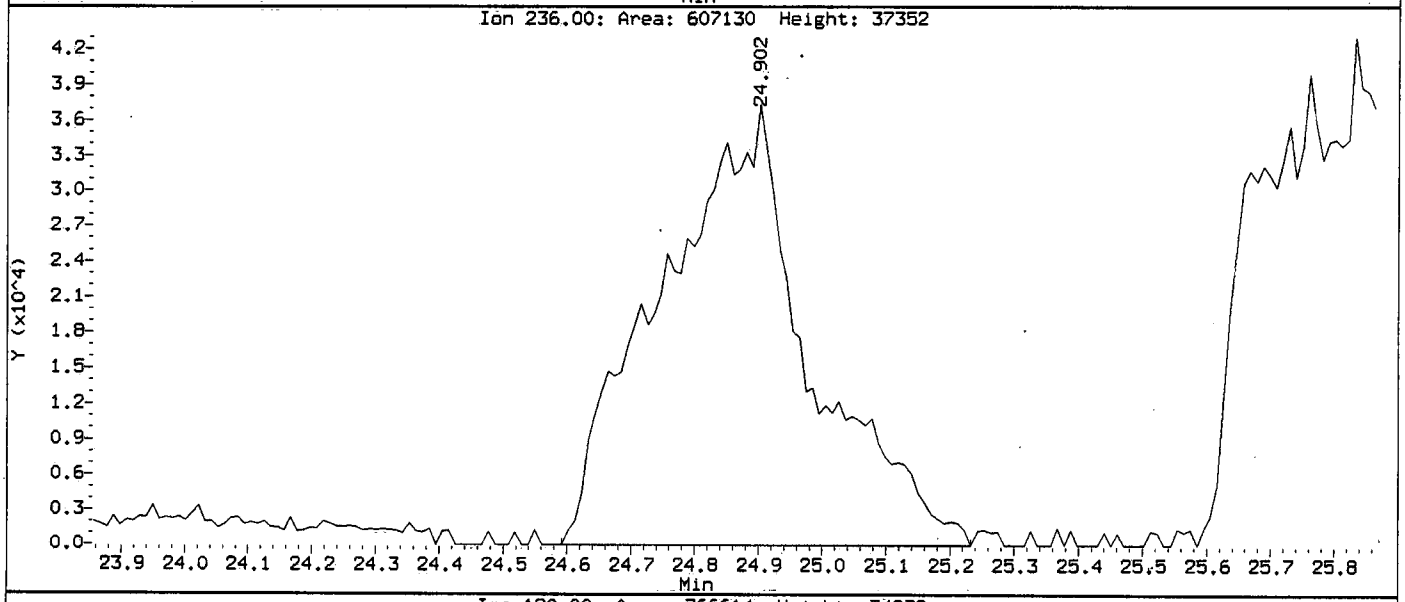
Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Chrysene-d12
CAS Number: 1719-03-5

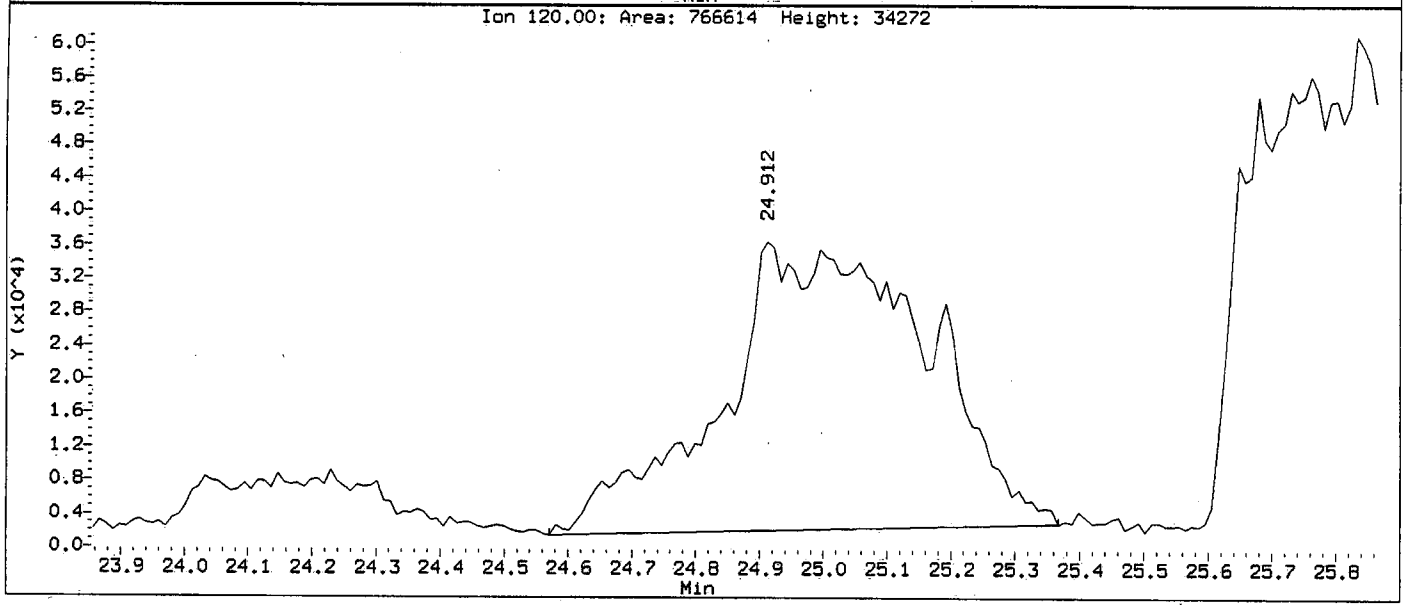
Ion 240.00: Area: 1902320 Height: 128368



Ion 236.00: Area: 607130 Height: 37352

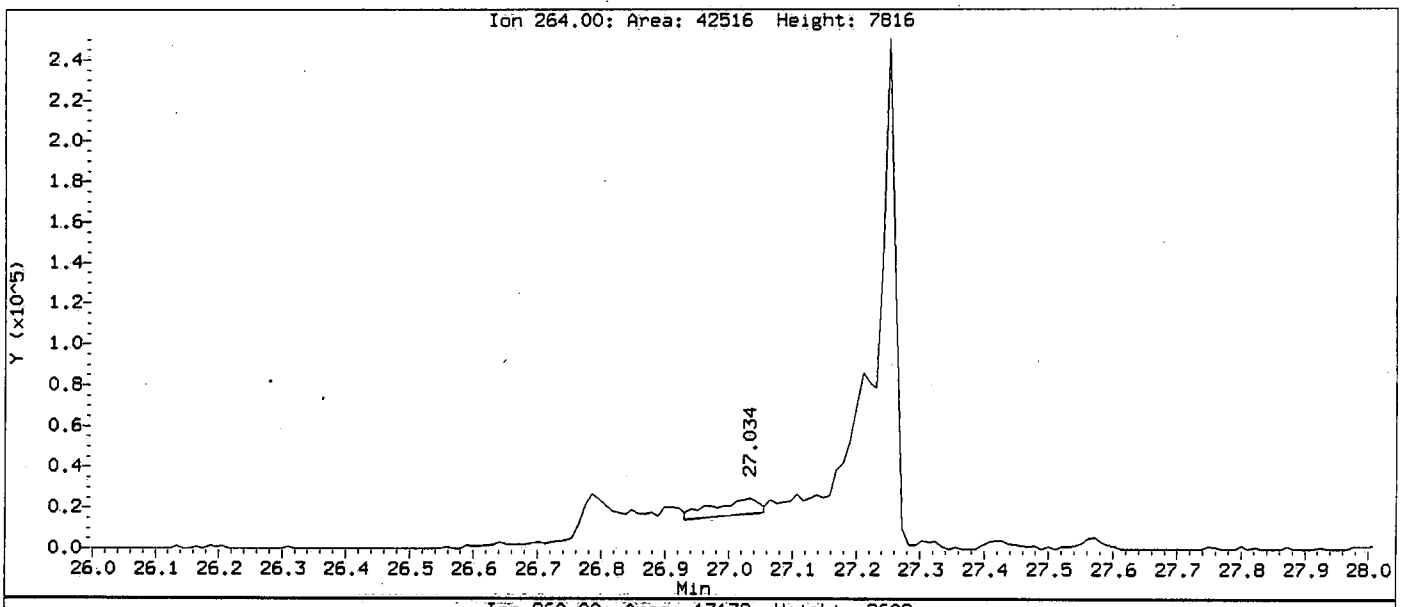


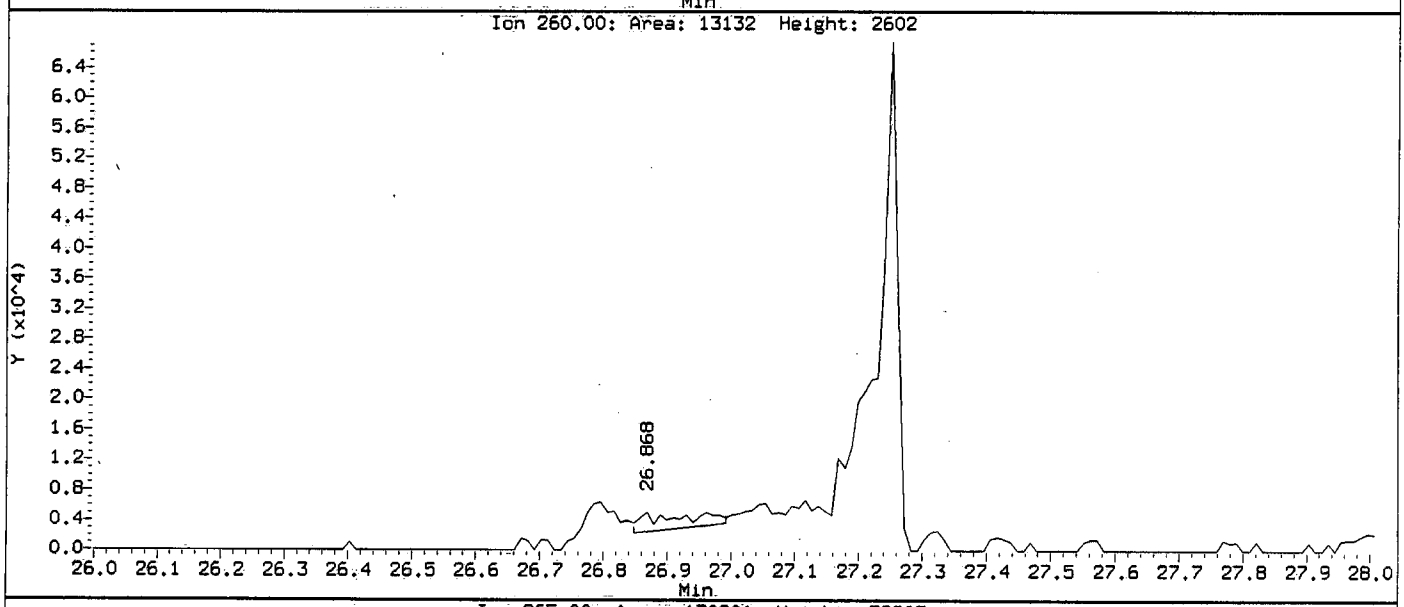
Ion 120.00: Area: 766614 Height: 34272

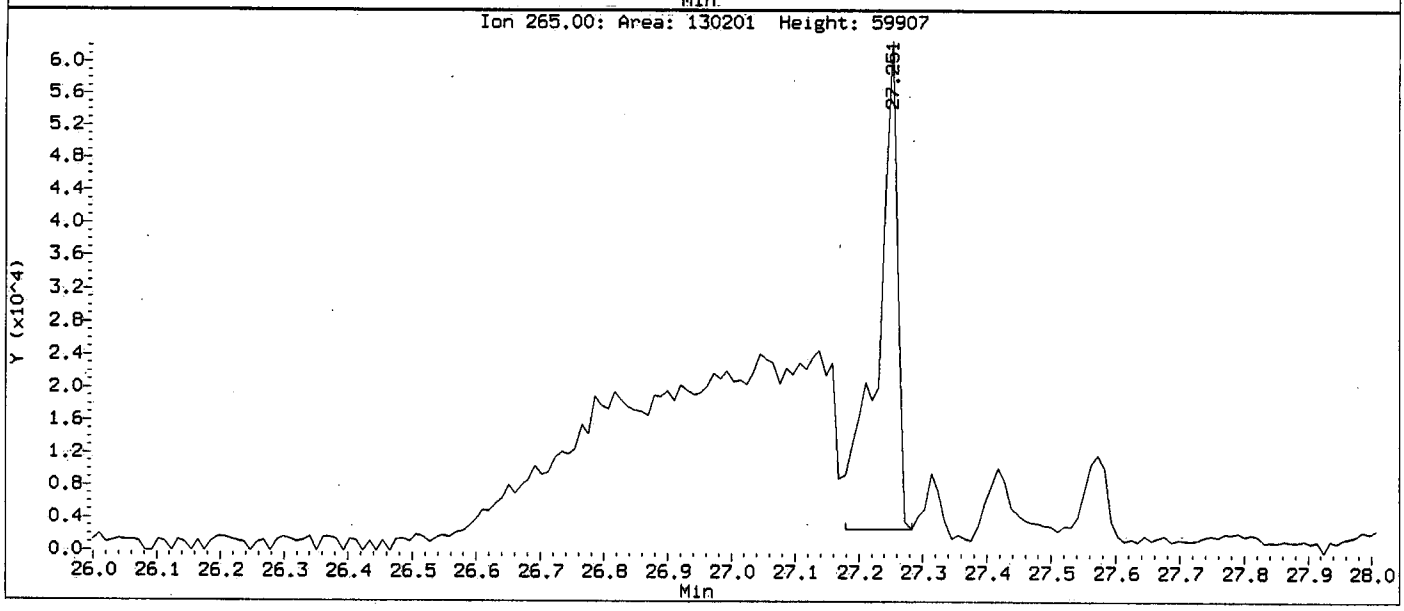


Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Perylene-d12
CAS Number: 1520-96-3



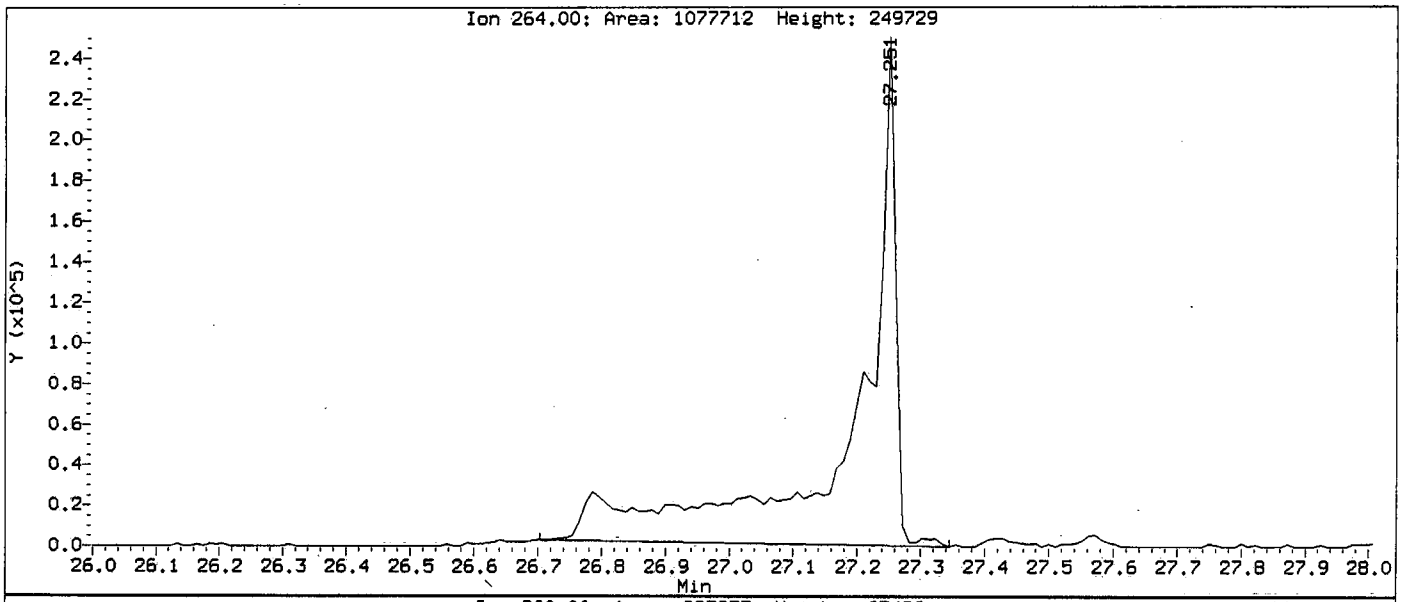


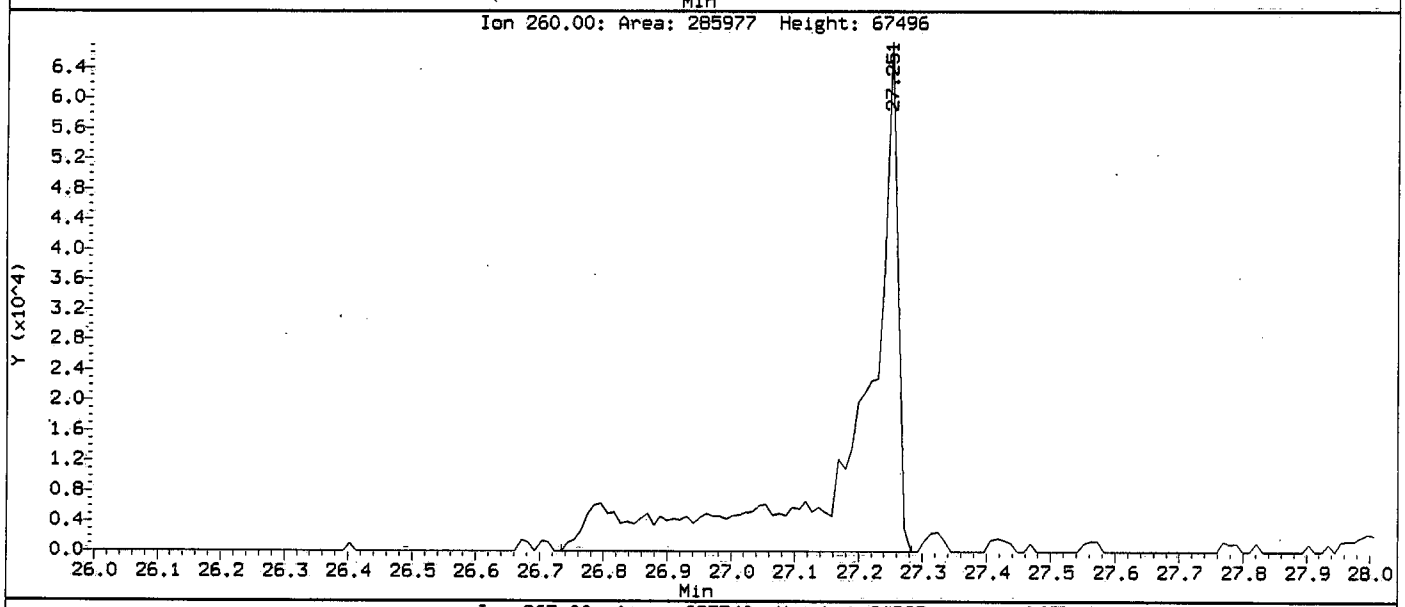


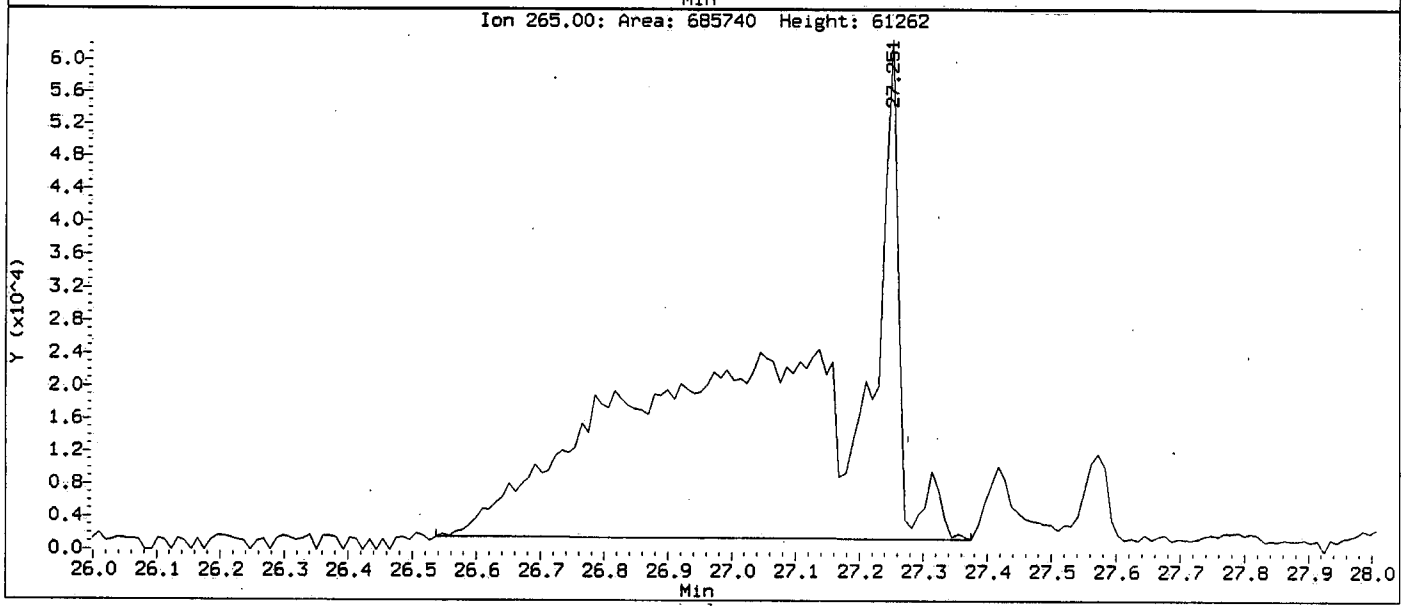
Data File: /var/chem/molly.i/0307174m1r.b/m8348.d
Injection Date: 17-JUL-2003 16:02
Instrument: molly.i
Client Sample ID:

Compound: Perylene-d12
CAS Number: 1520-96-3

7/19/03
integrate entire area
Kathy Kuhnt 7/21/03







Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

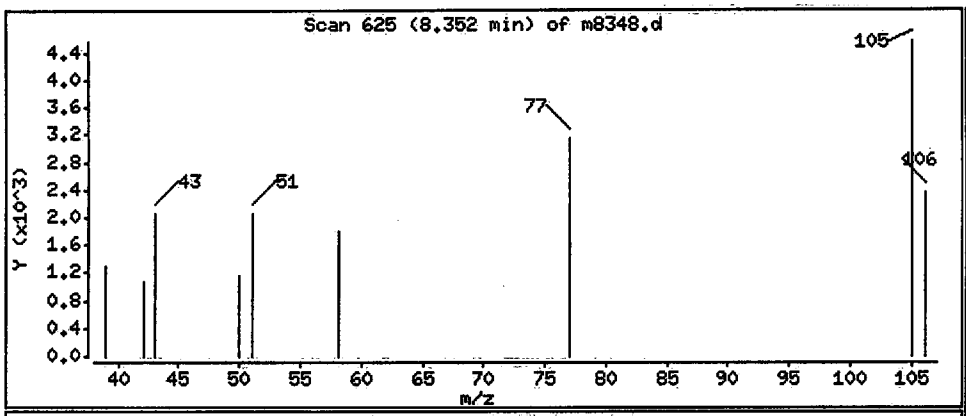
Operator: dce

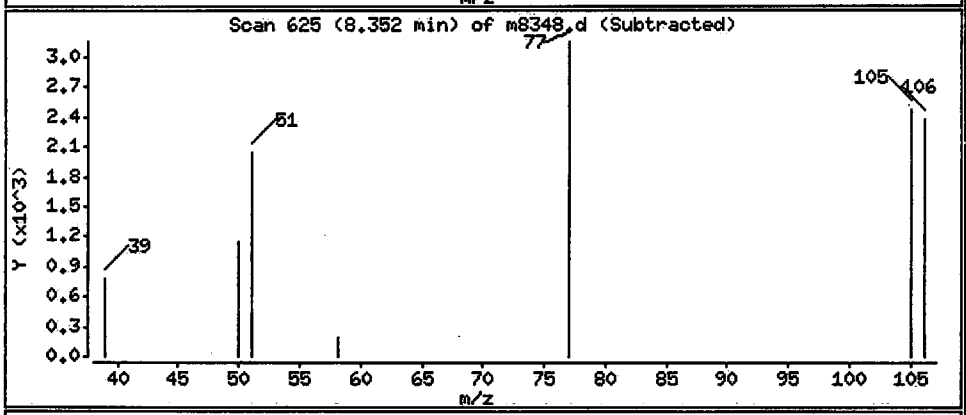
Column phase: ZB-5

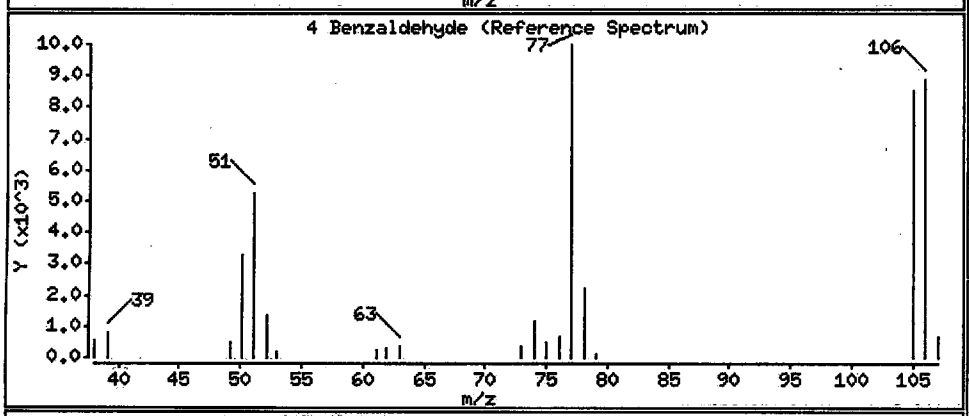
Column diameter: 0.25

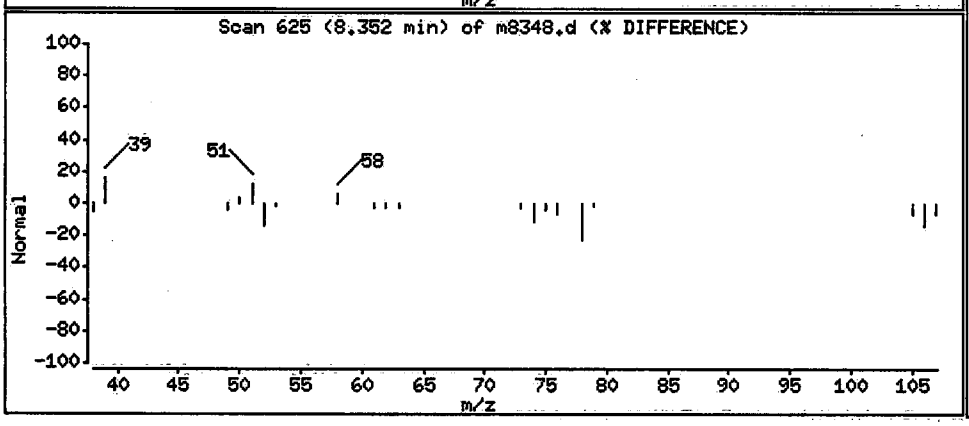
4 Benzaldehyde

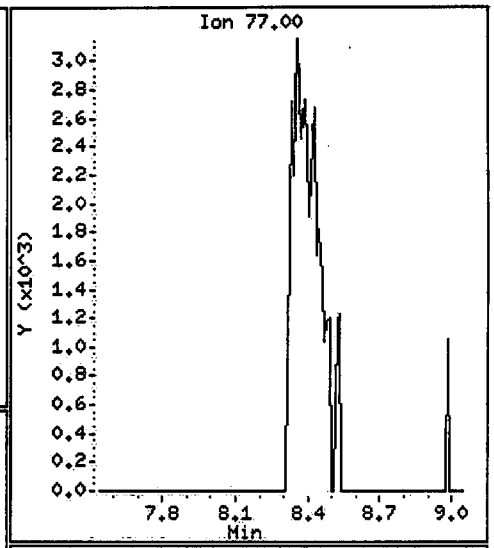
Concentration: 232 ug/Kg

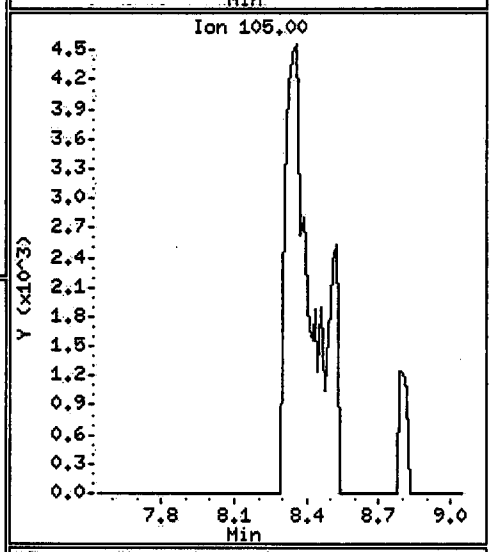


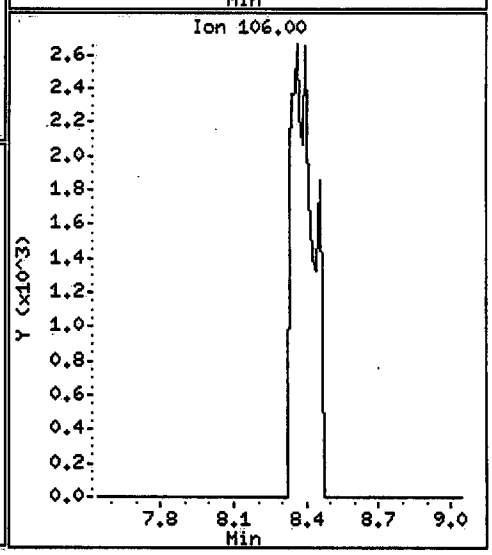












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

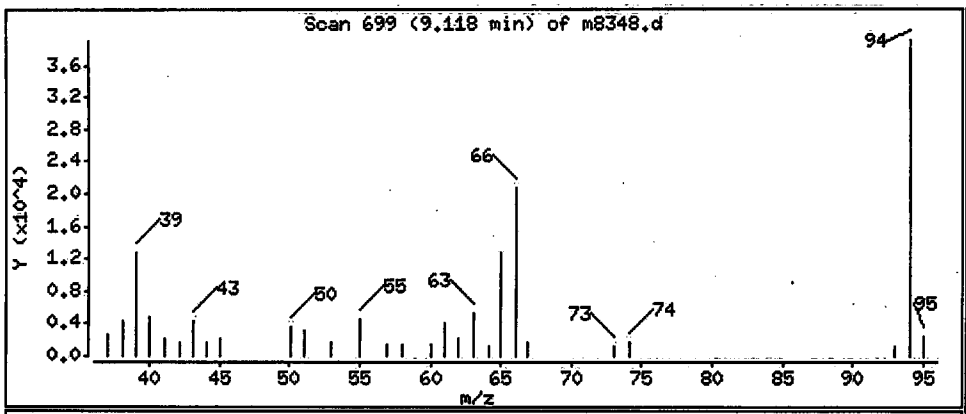
Operator: dce

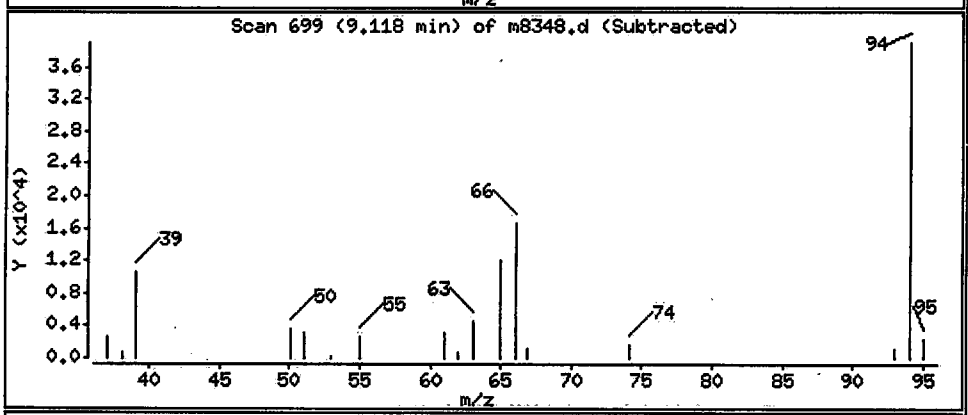
Column phase: ZB-5

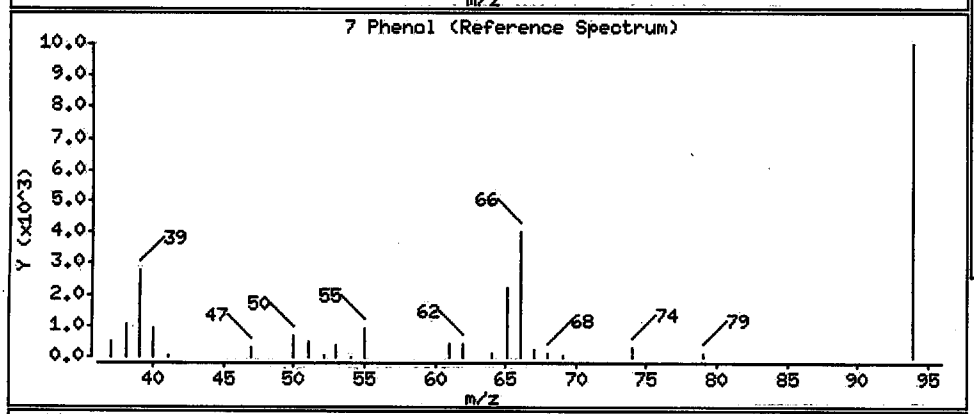
Column diameter: 0.25

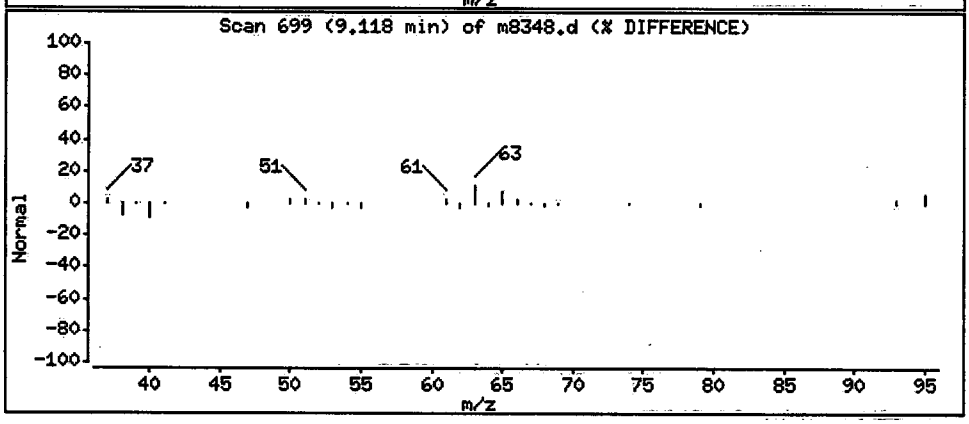
7 Phenol

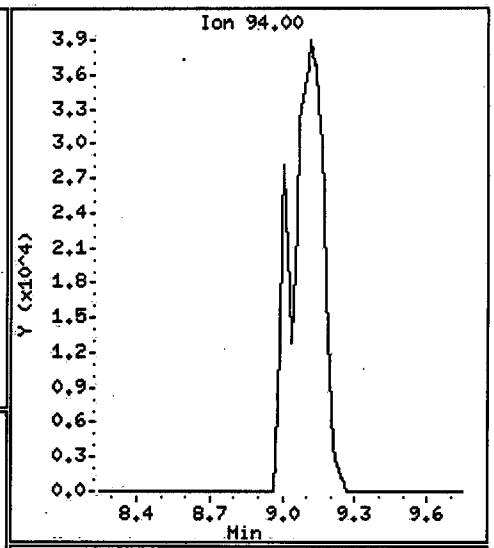
Concentration: 2210 ug/Kg

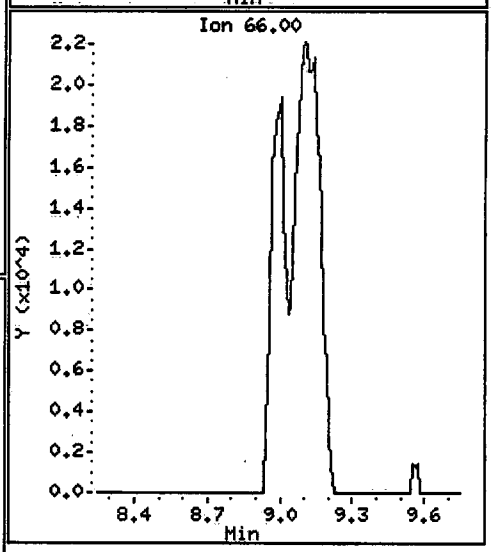












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

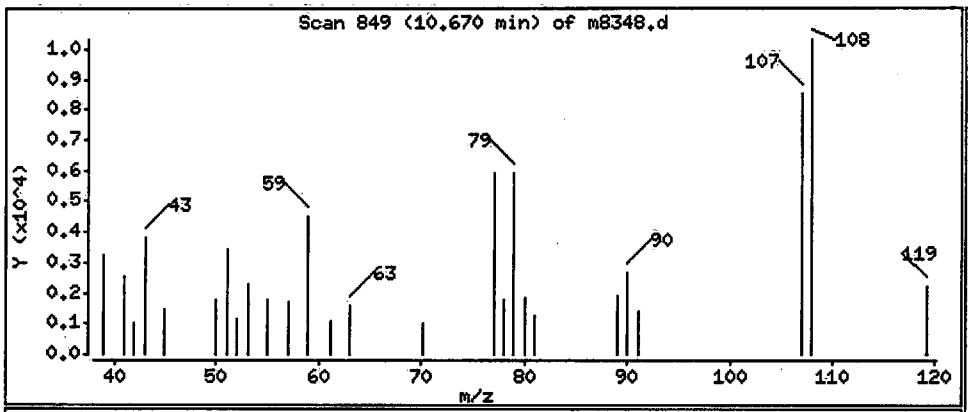
Operator: dce

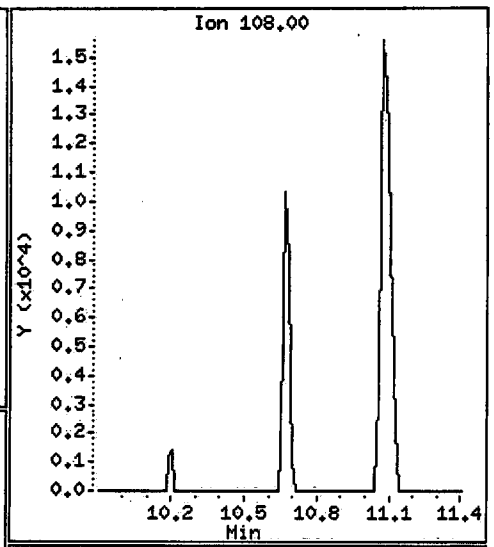
Column phase: ZB-5

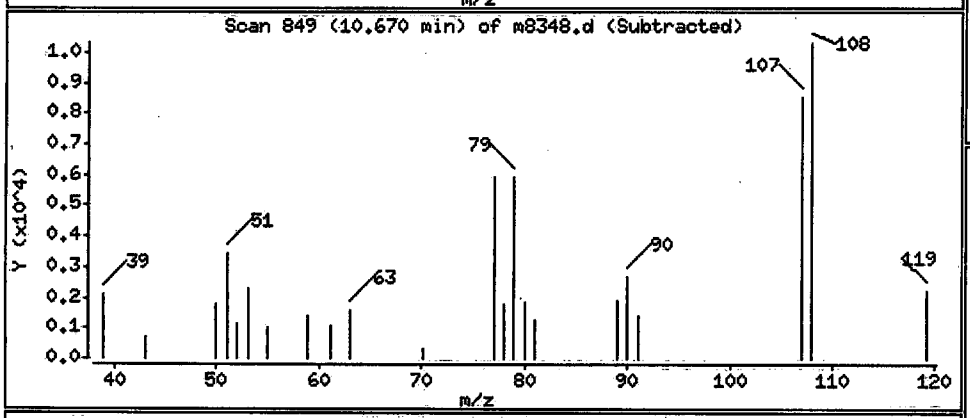
Column diameter: 0.25

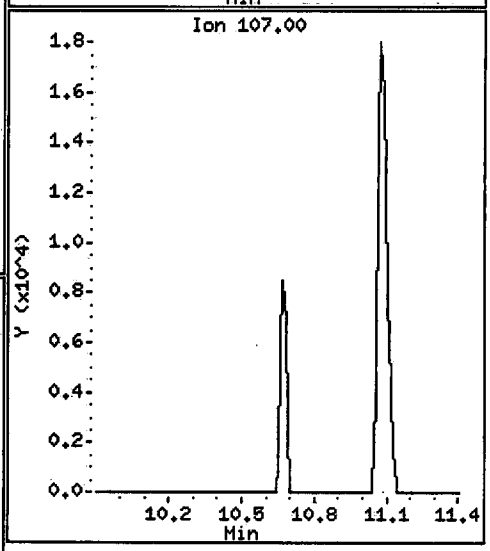
15 2-Methylphenol

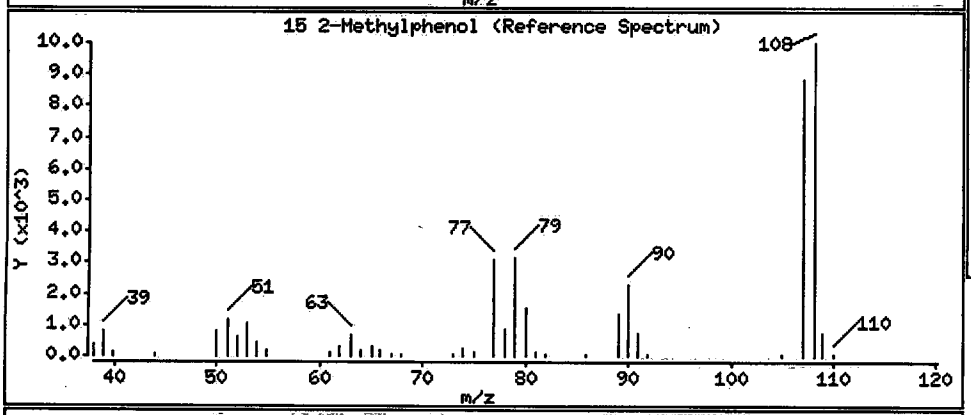
Concentration: 166 ug/Kg

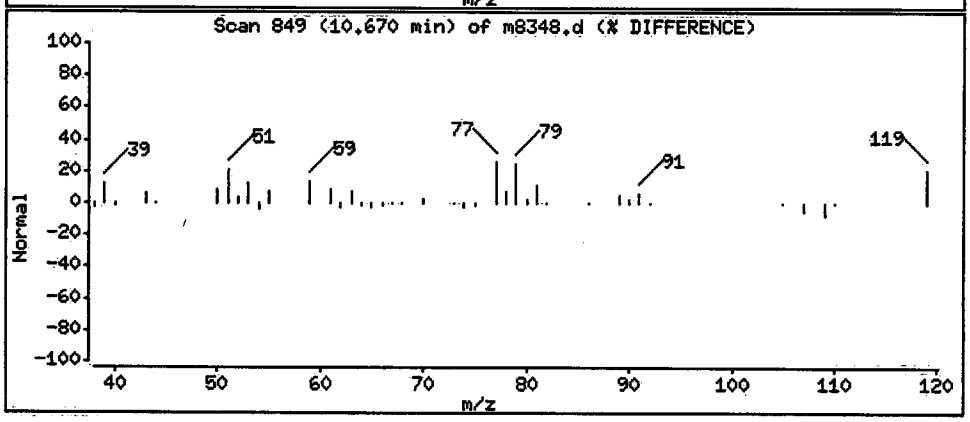












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

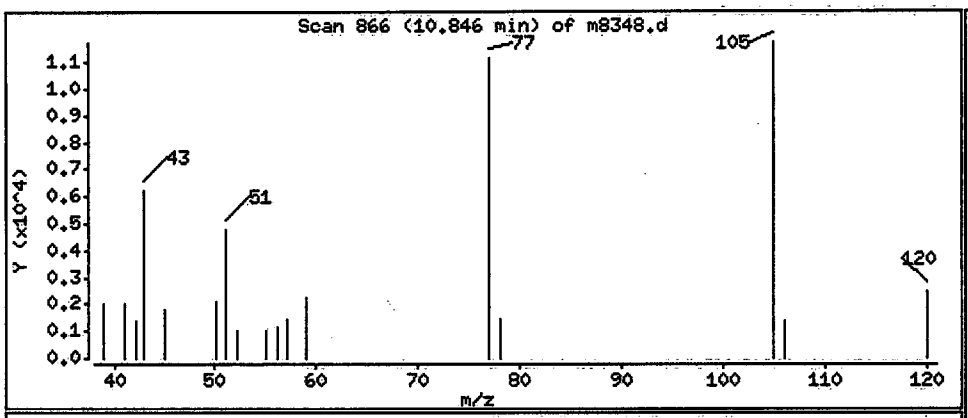
Operator: dce

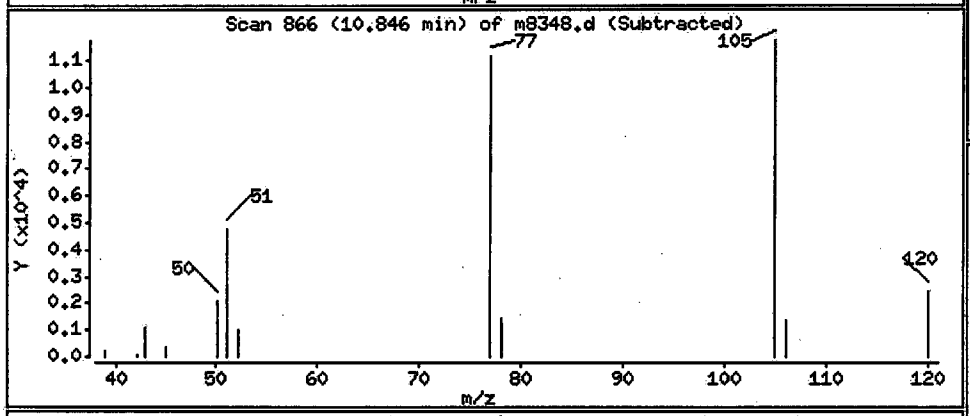
Column phase: ZB-5

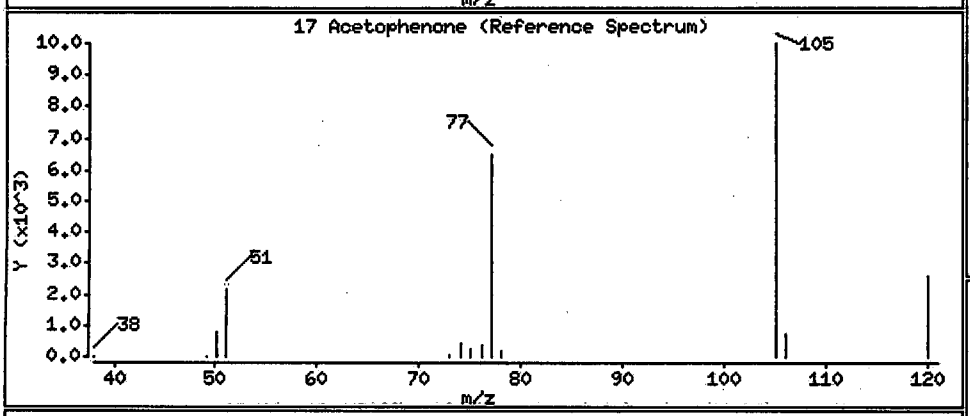
Column diameter: 0.25

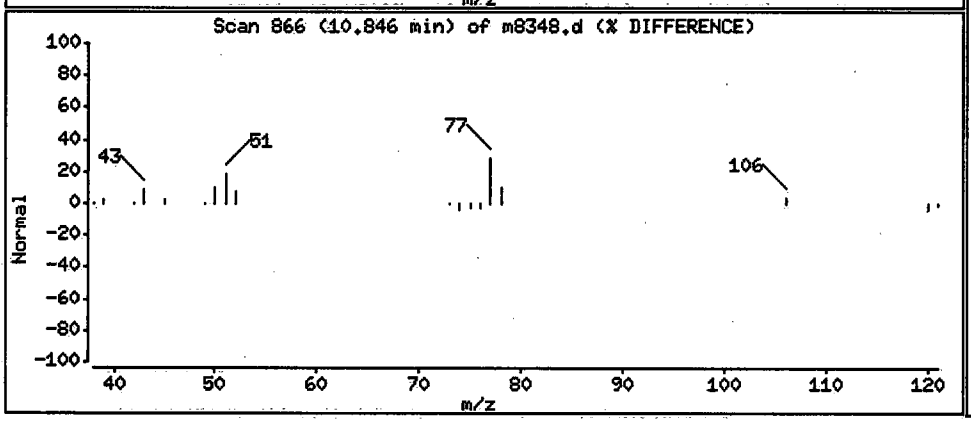
17 Acetophenone

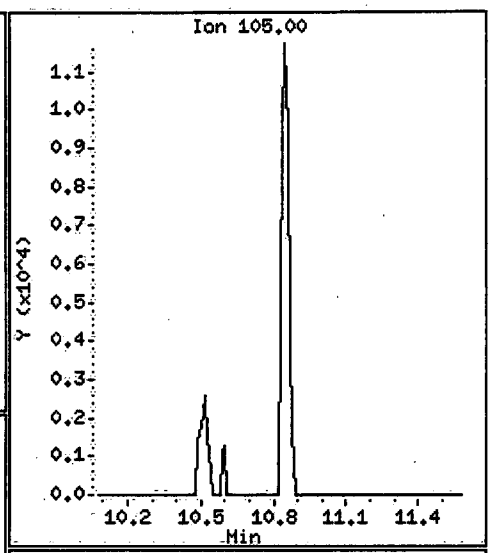
Concentration: 133 ug/Kg

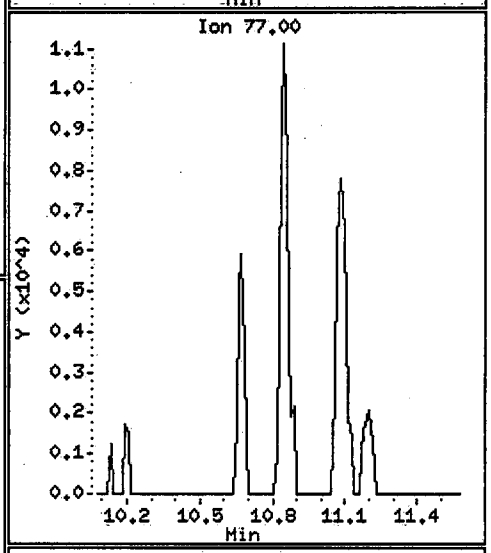


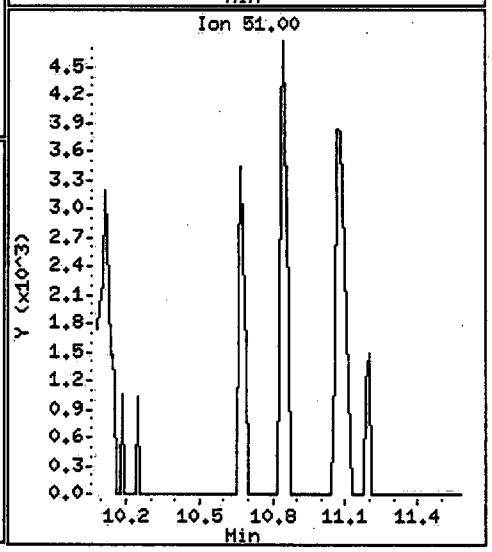












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

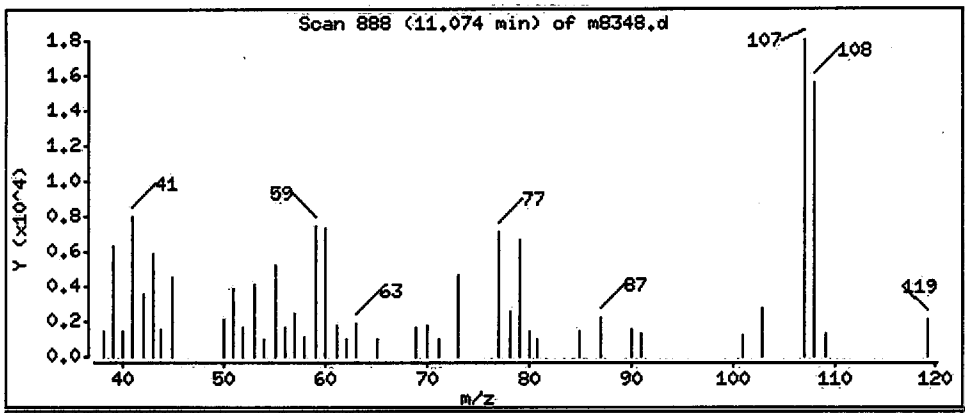
Operator: dce

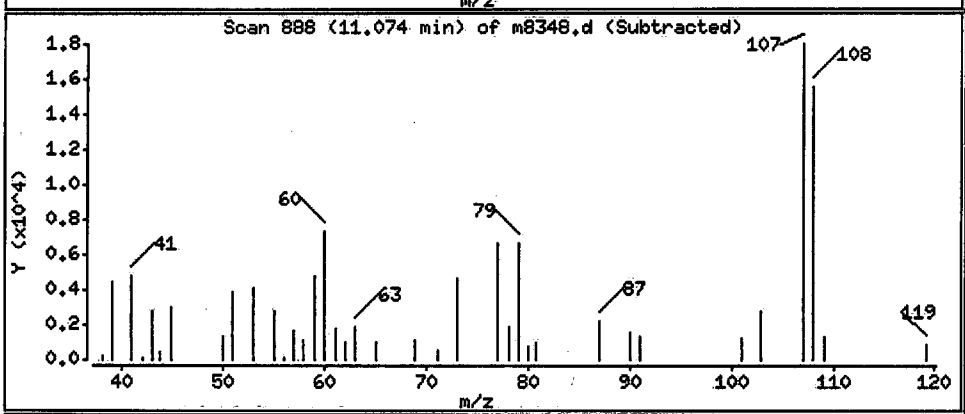
Column phase: ZB-5

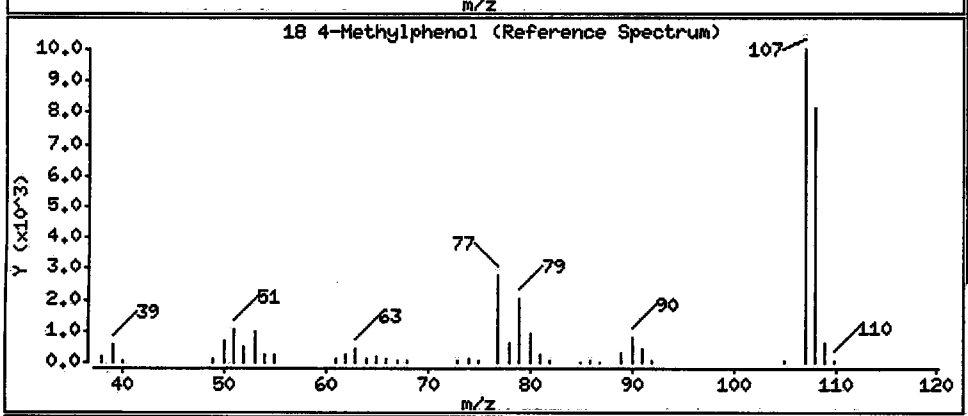
Column diameter: 0.25

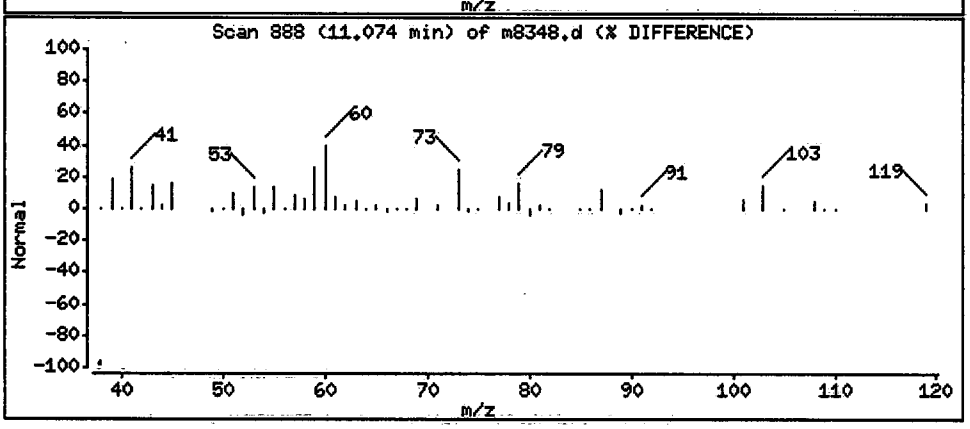
18 4-Methylphenol

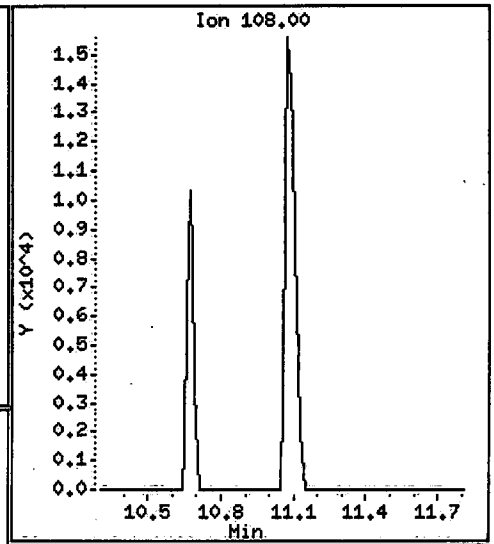
Concentration: 358 ug/Kg

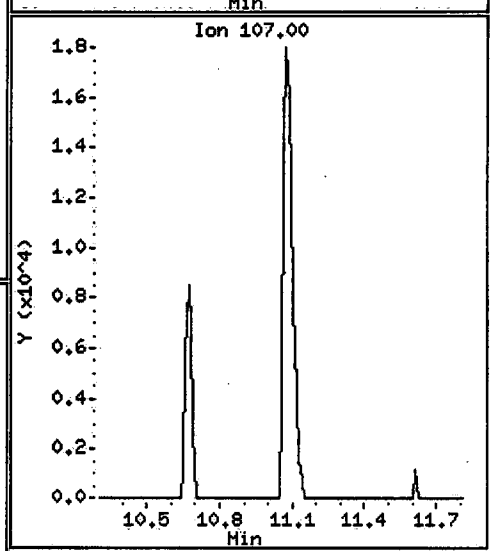












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

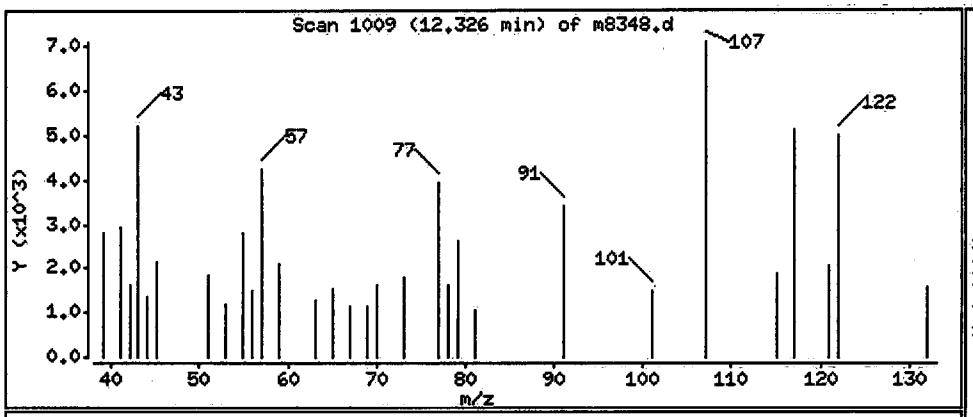
Operator: dce

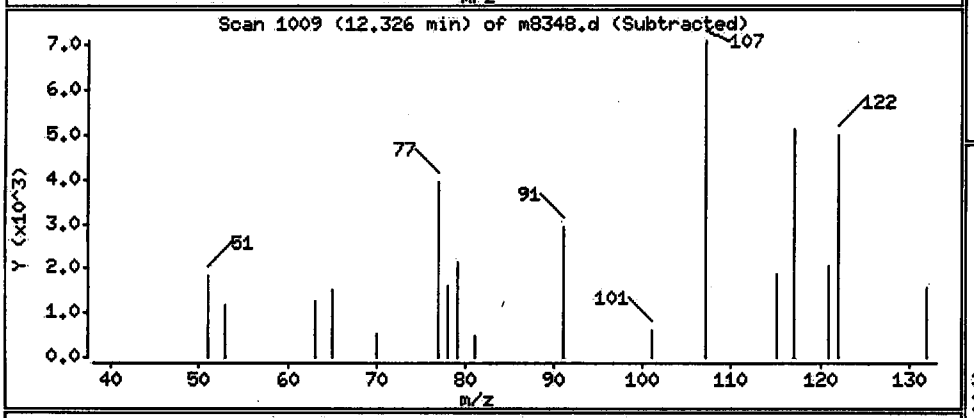
Column phase: ZB-5

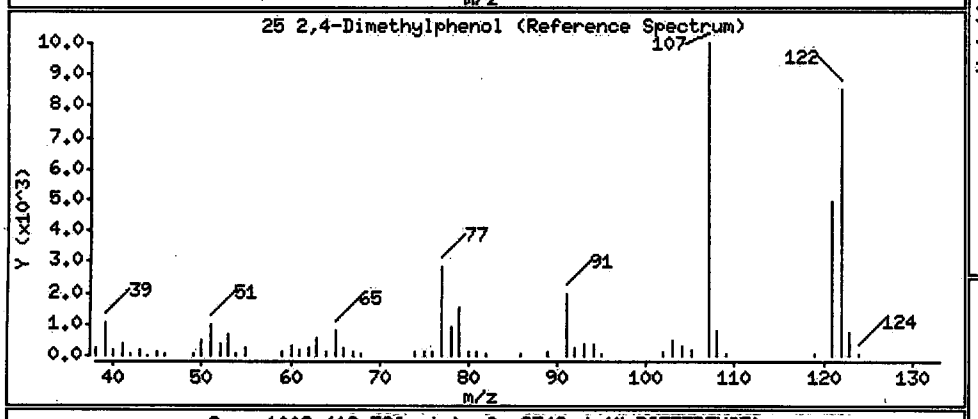
Column diameter: 0.25

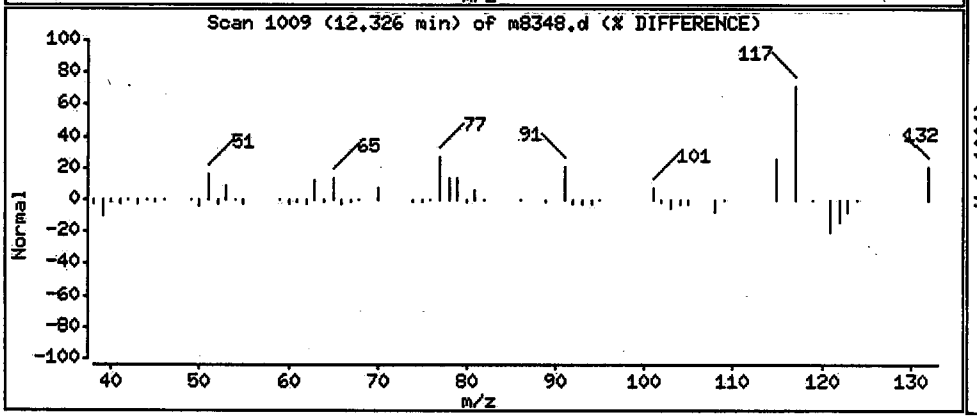
25 2,4-Dimethylphenol

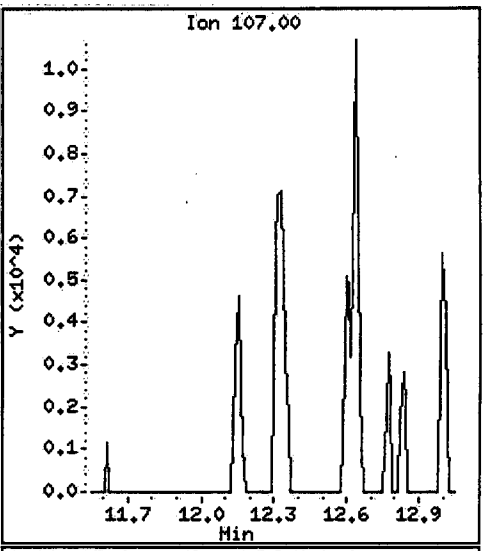
Concentration: 139 ug/Kg

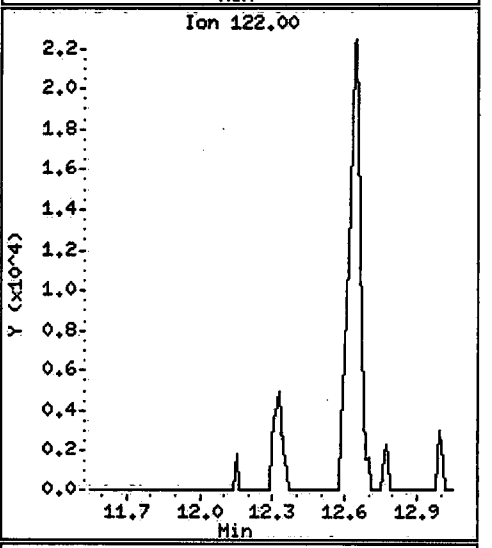


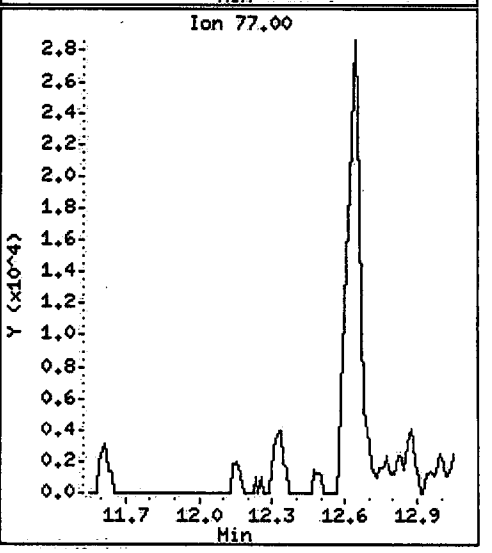












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

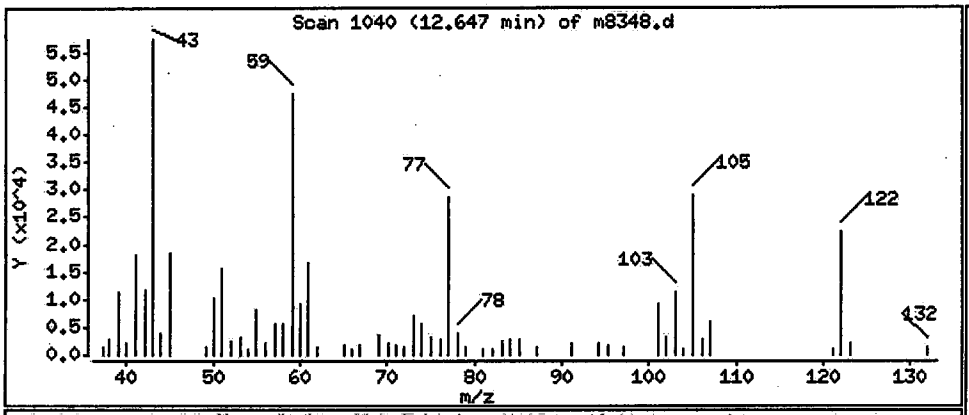
Operator: dce

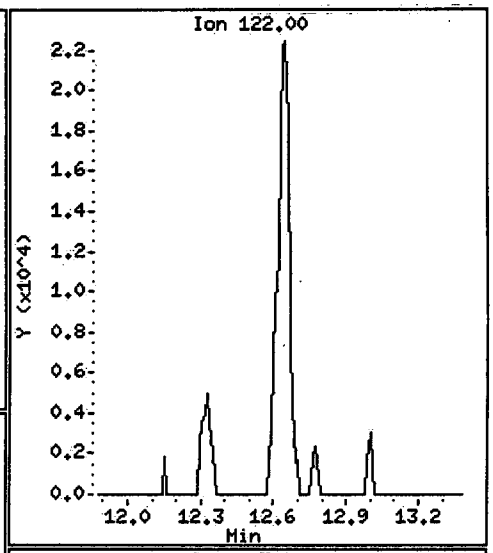
Column phase: ZB-5

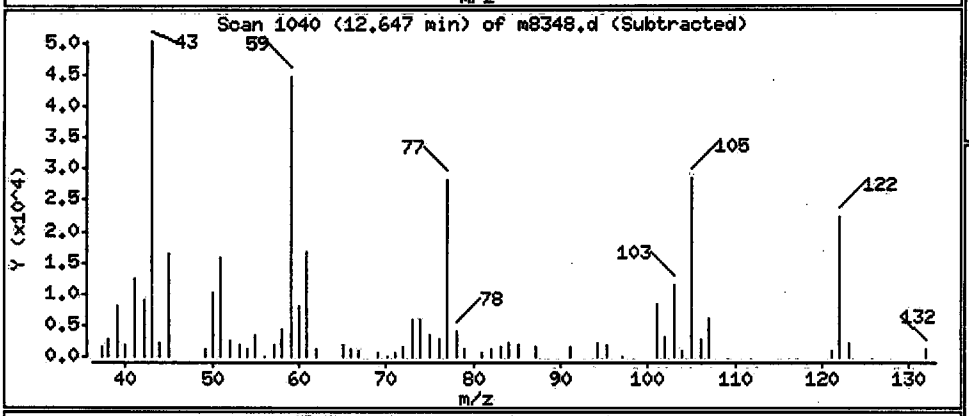
Column diameter: 0.25

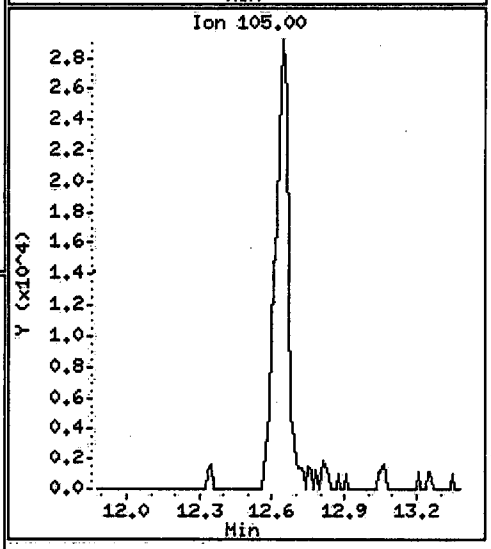
27 Benzoic acid

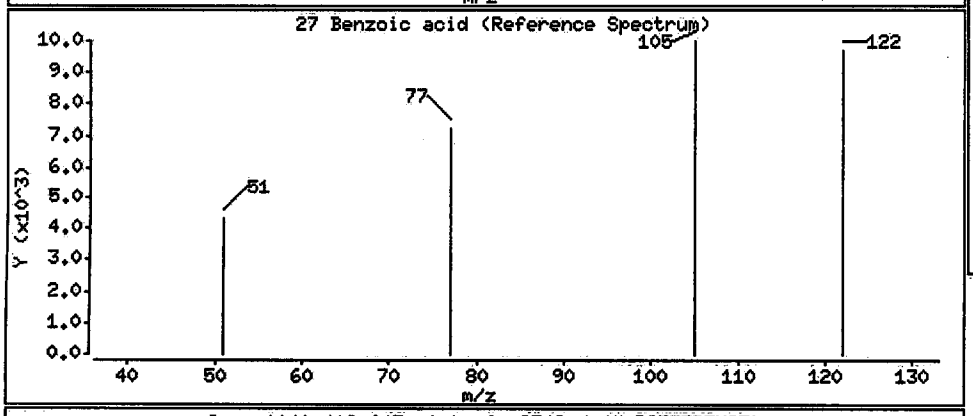
Concentration: 1150 ug/Kg

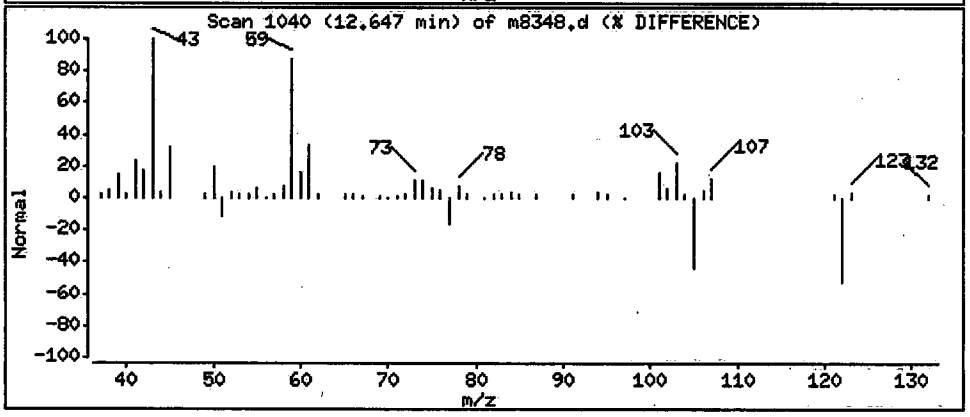












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

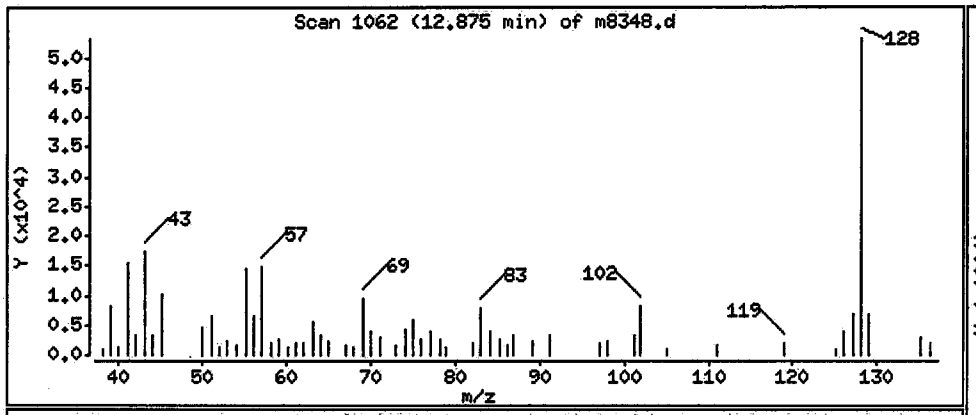
Operator: dce

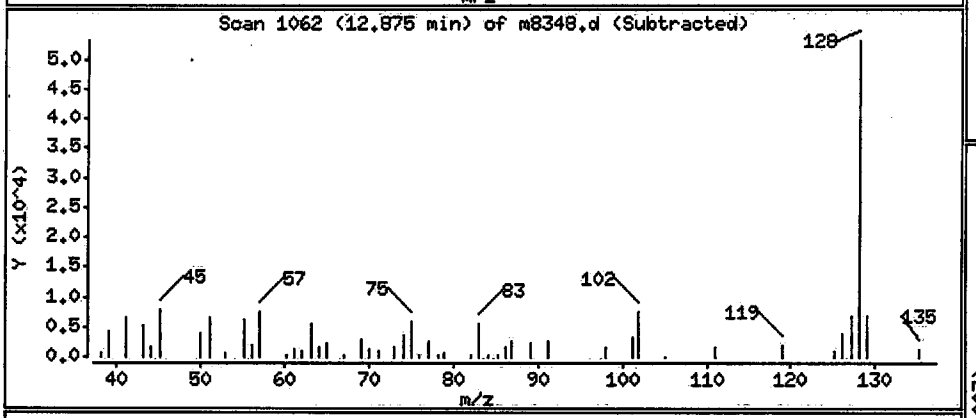
Column phase: ZB-5

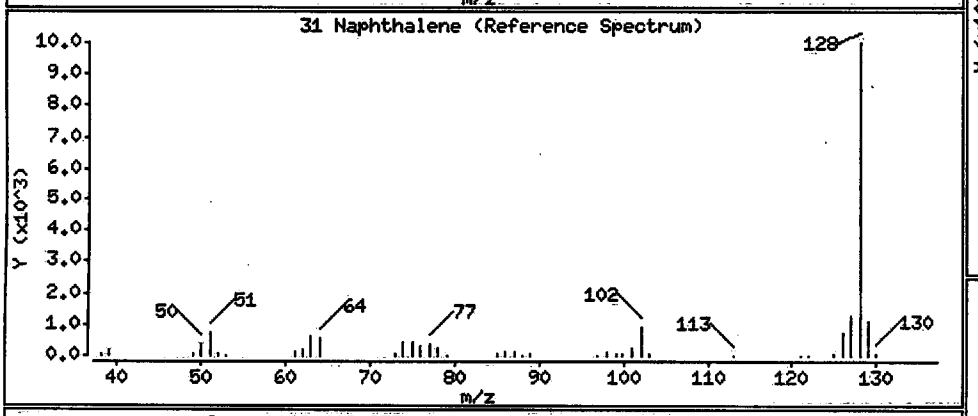
Column diameter: 0.25

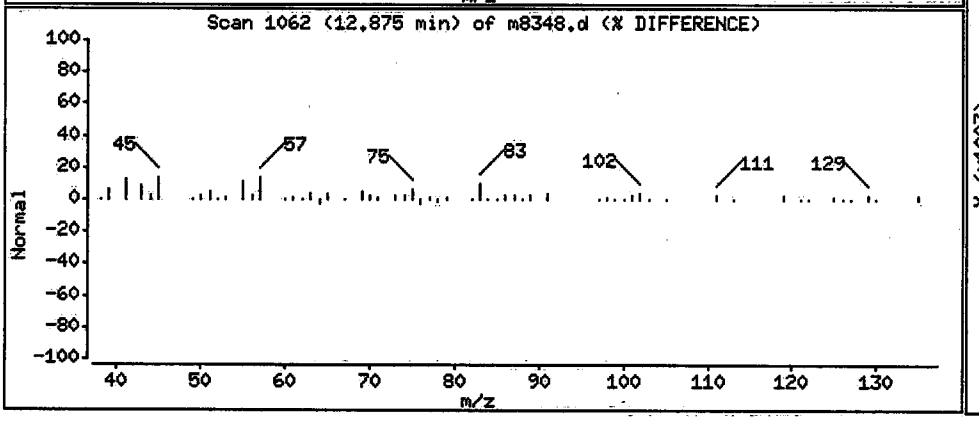
31 Naphthalene

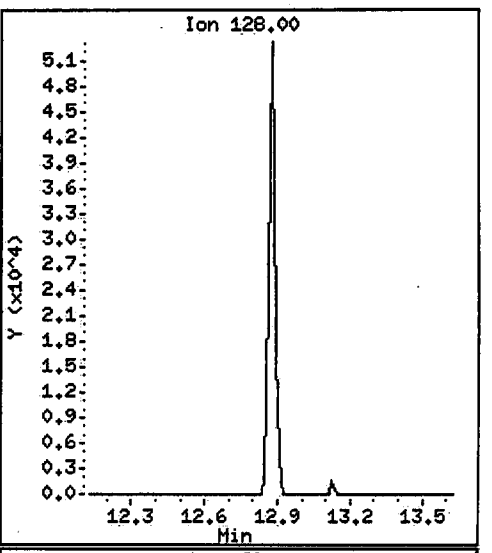
Concentration: 302 ug/Kg

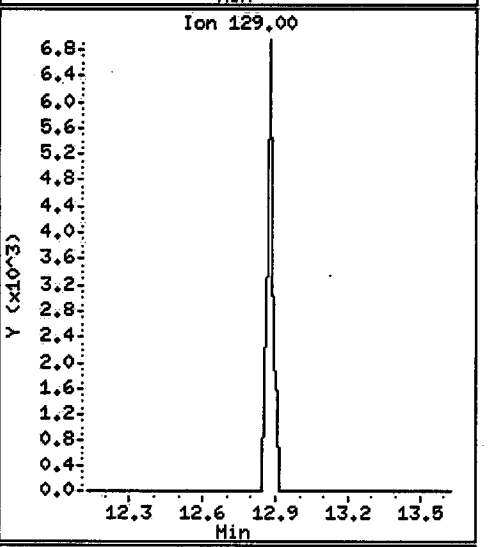


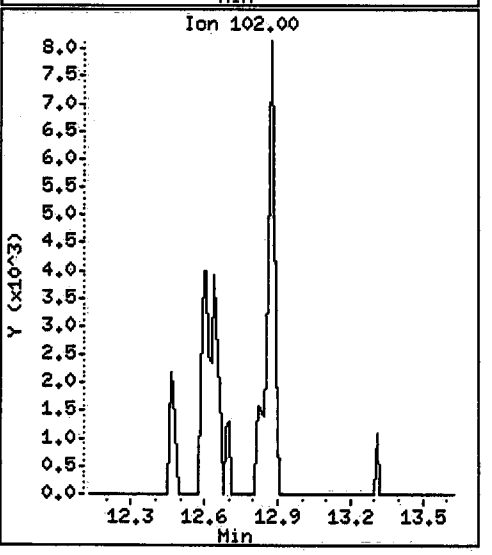












Data File: /var/chem/molly.i/0307174mir.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

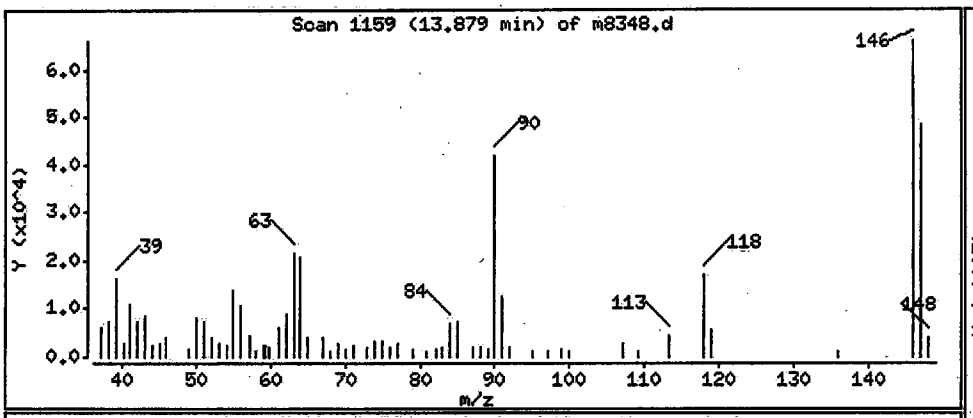
Operator: dce

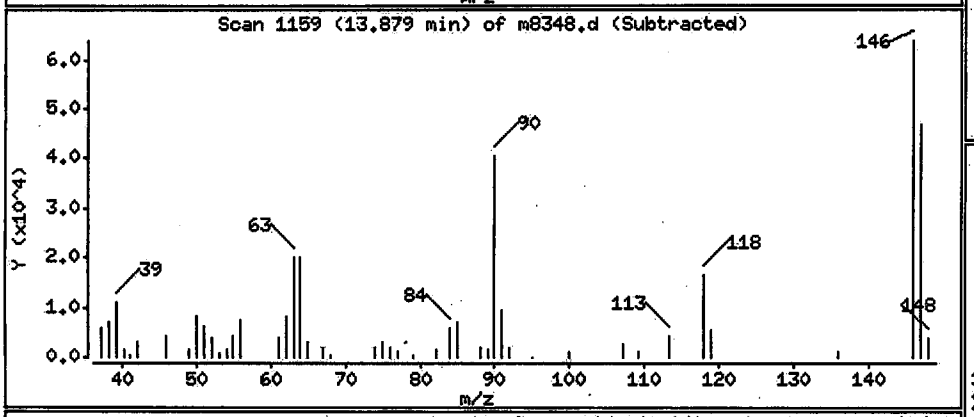
Column phase: ZB-5

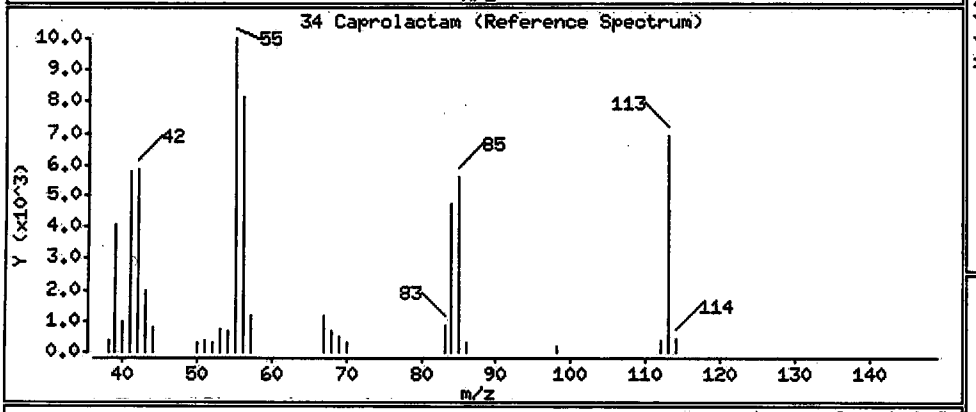
Column diameter: 0.25

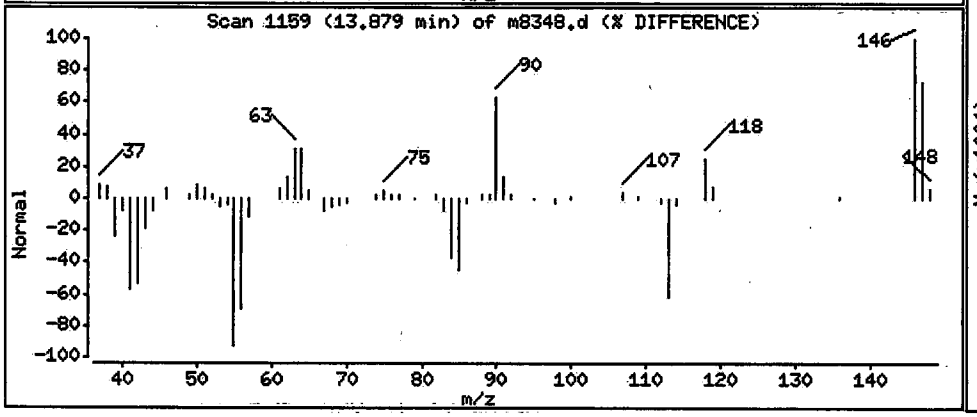
34 Caprolactam

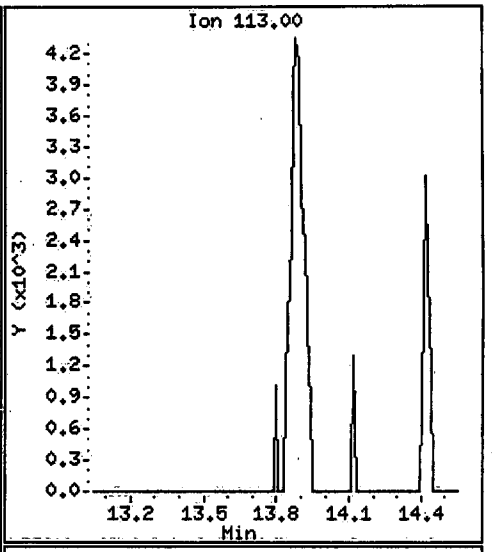
Concentration: 441 ug/Kg

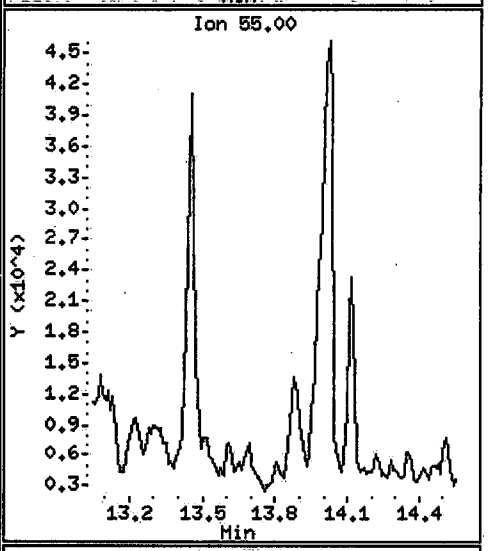


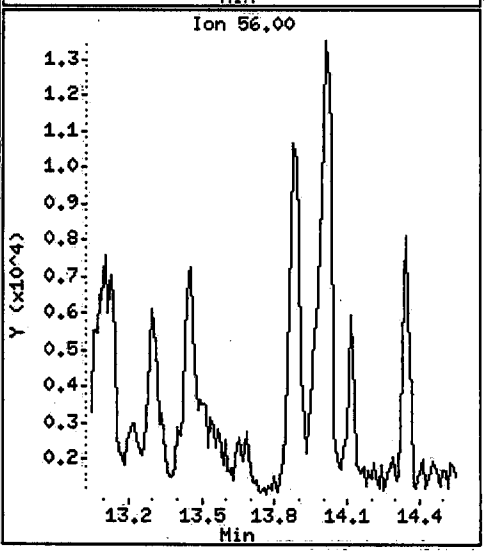












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

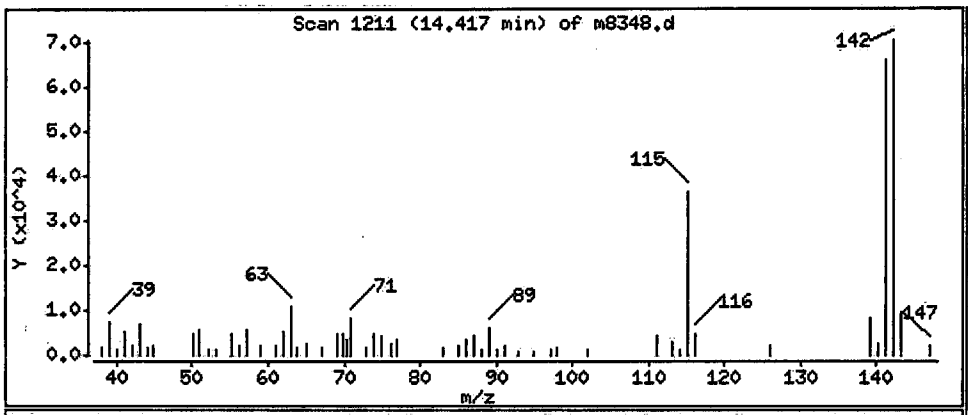
Operator: dce

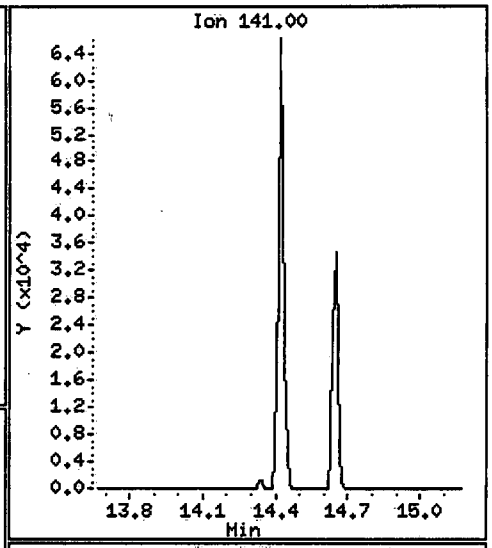
Column phase: ZB-5

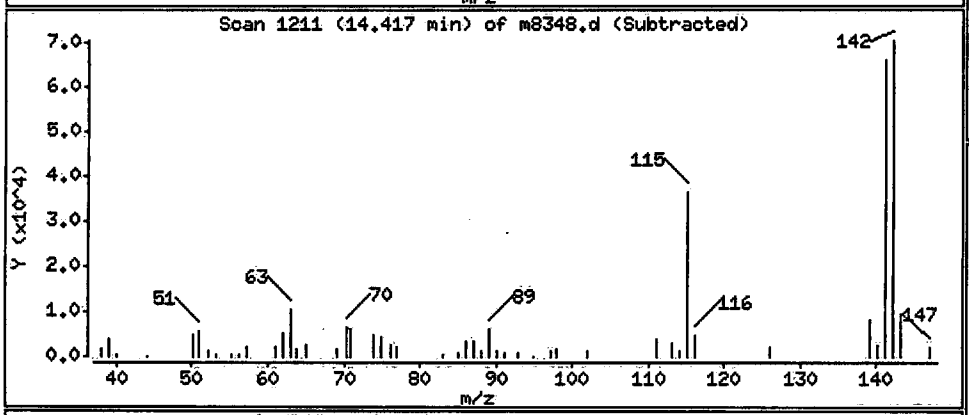
Column diameter: 0.25

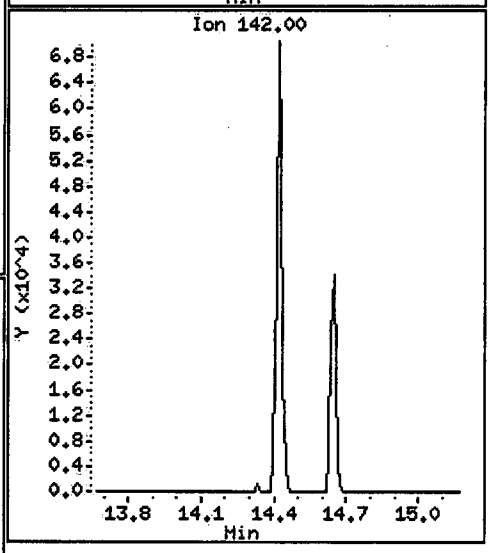
36 2-Methylnaphthalene

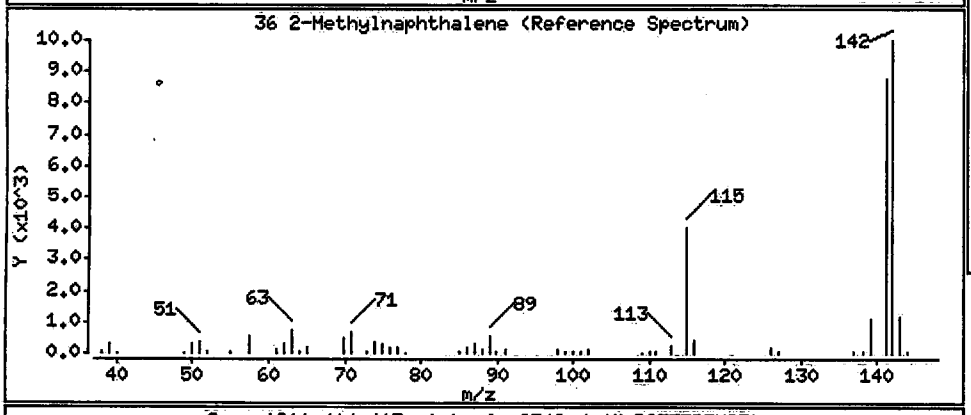
Concentration: 537 ug/Kg

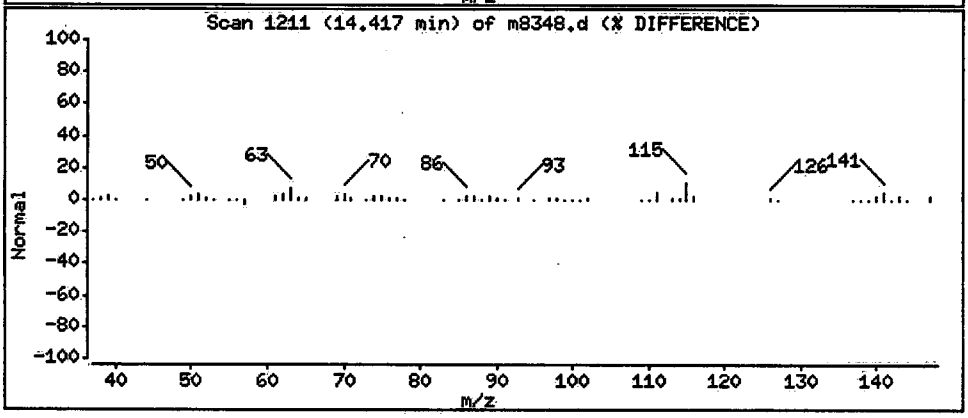












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

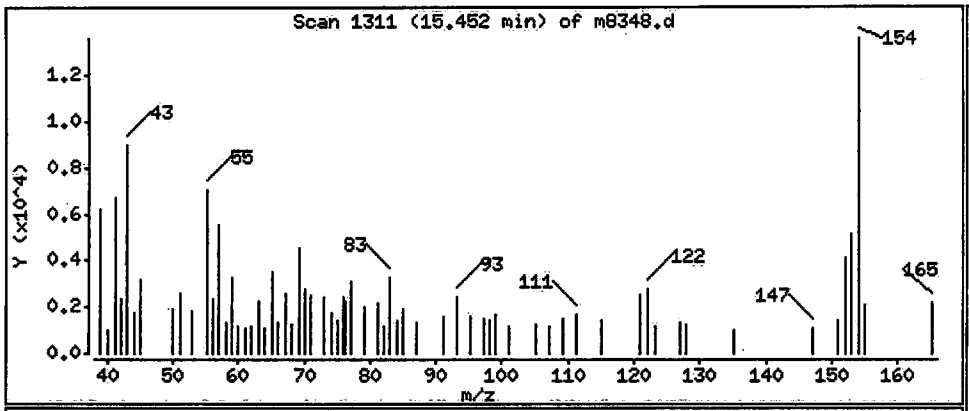
Operator: dce

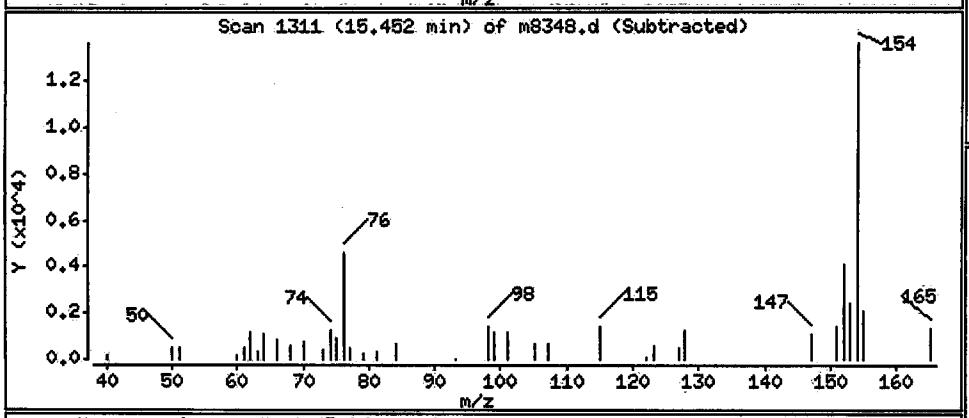
Column phase: ZB-5

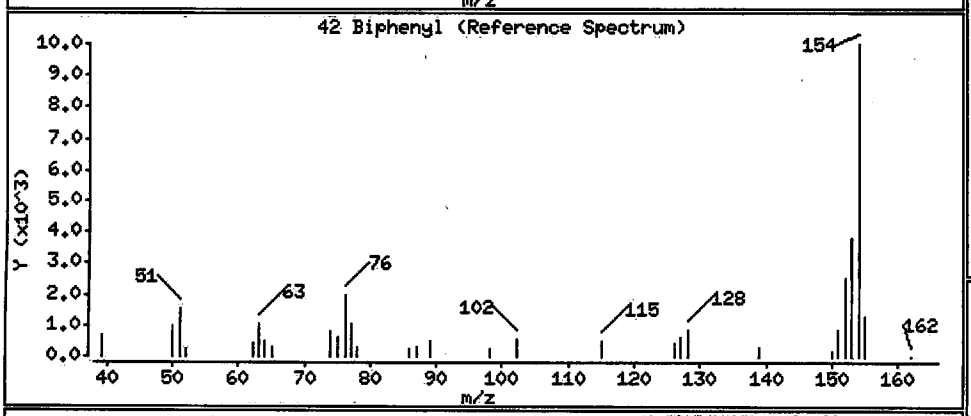
Column diameter: 0.25

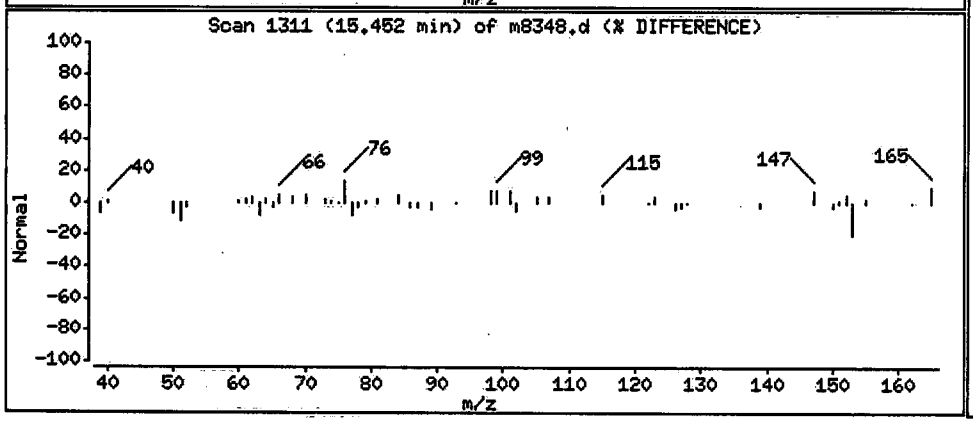
42 Biphenyl

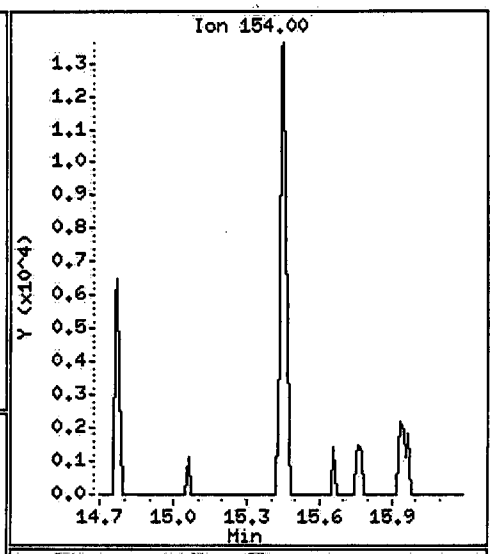
Concentration: 86.0 ug/Kg

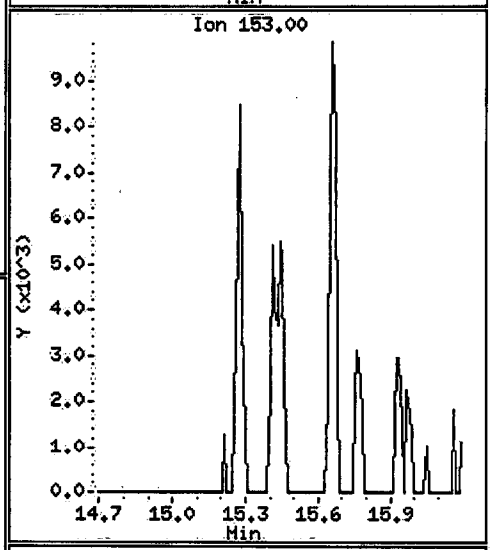


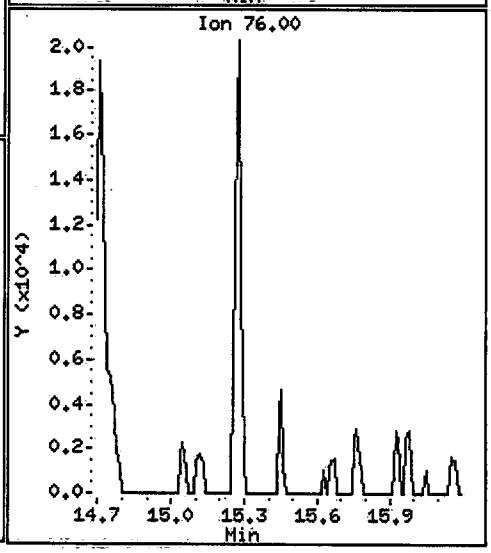












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

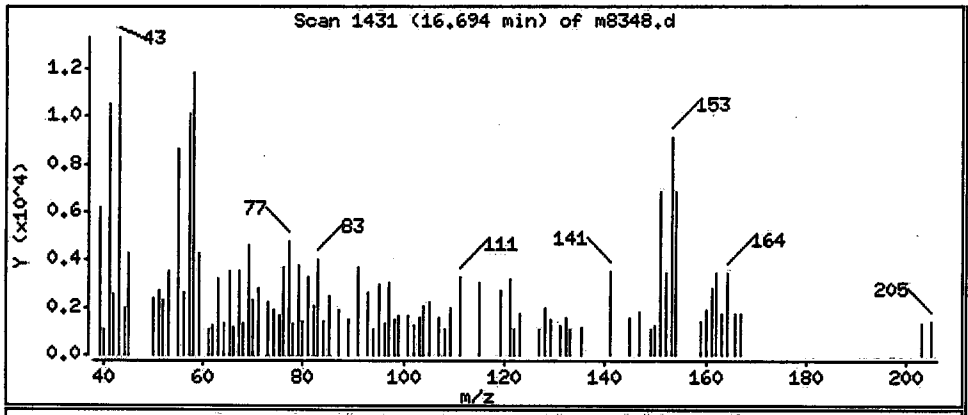
Operator: dce

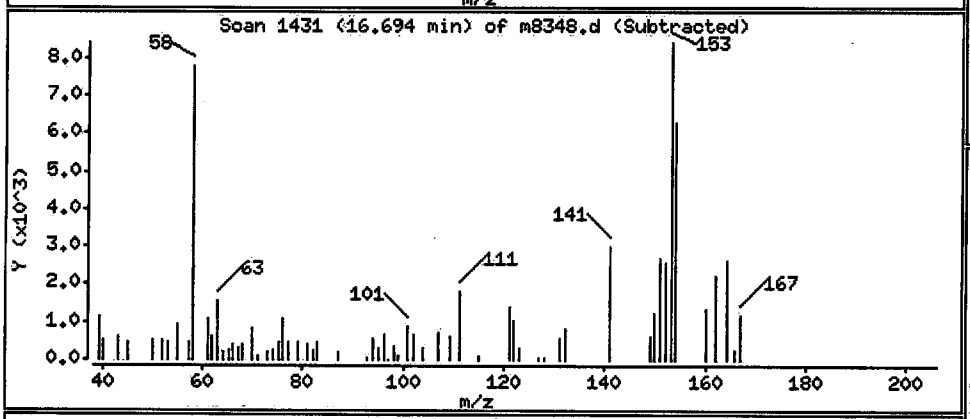
Column phase: ZB-5

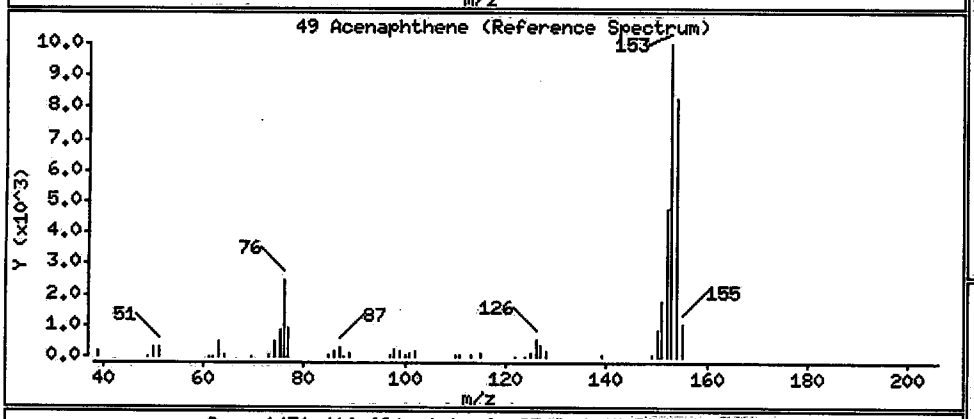
Column diameter: 0.25

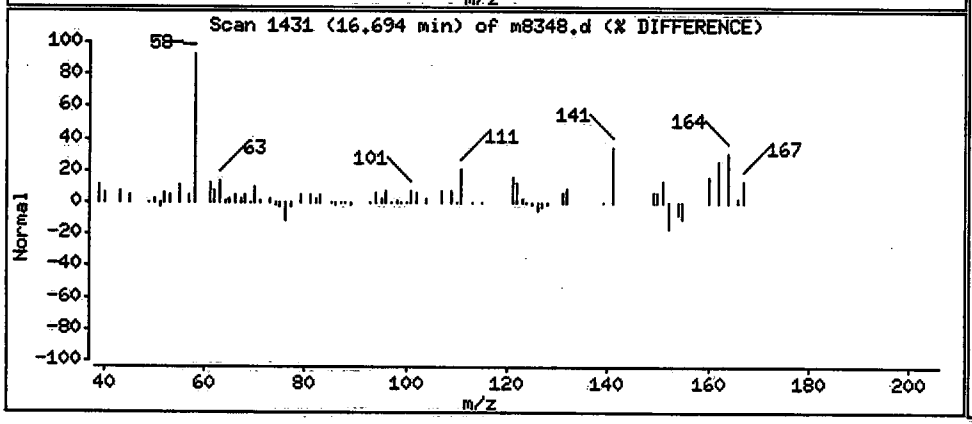
49 Acenaphthene

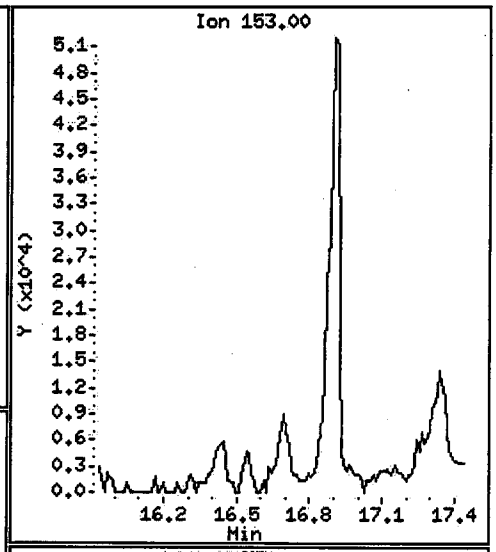
Concentration: 150 ug/Kg

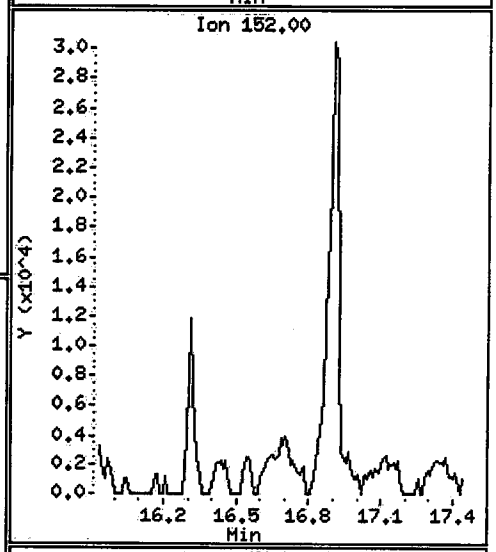


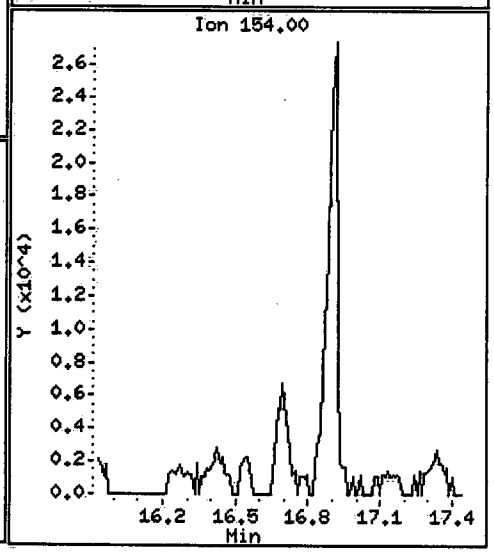












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

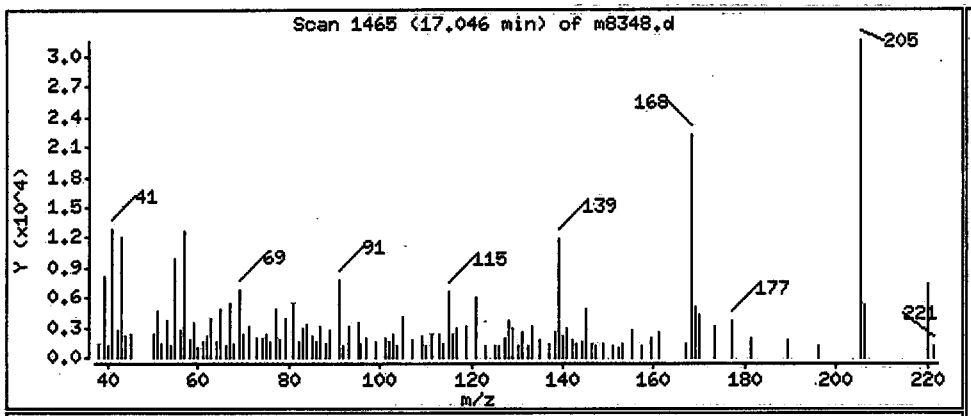
Operator: dce

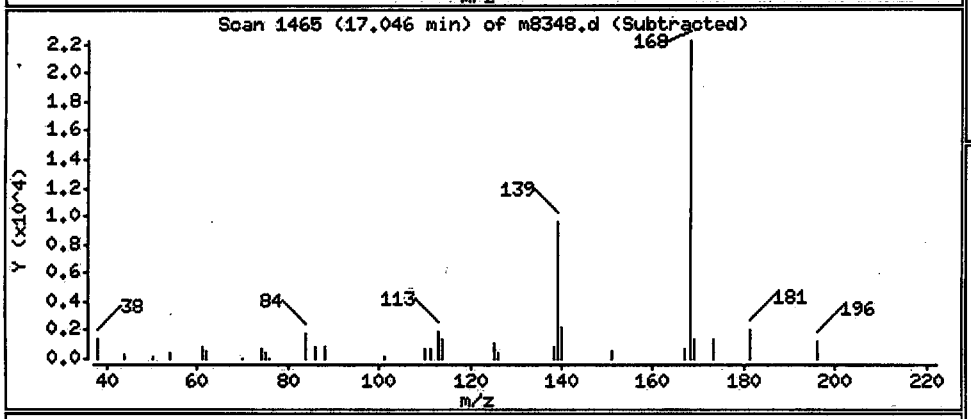
Column phase: ZB-5

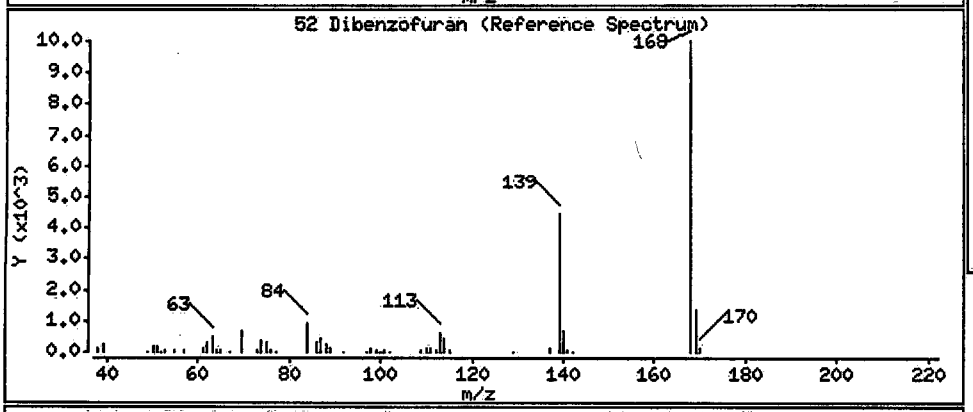
Column diameter: 0.25

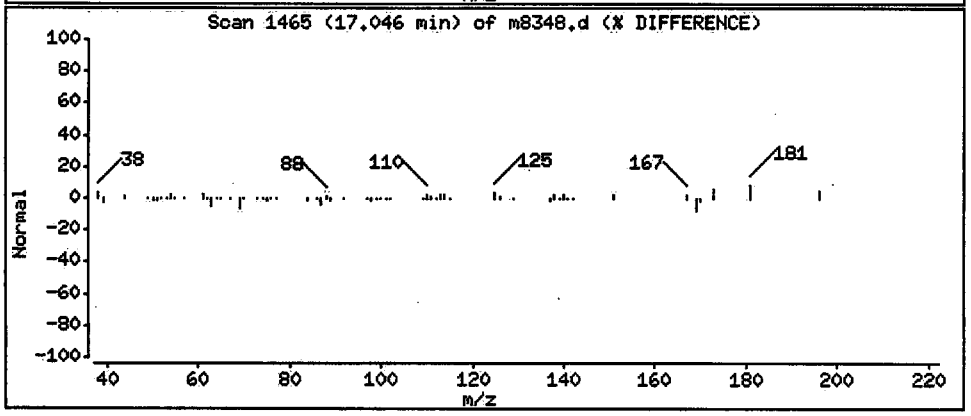
52 Dibenzofuran

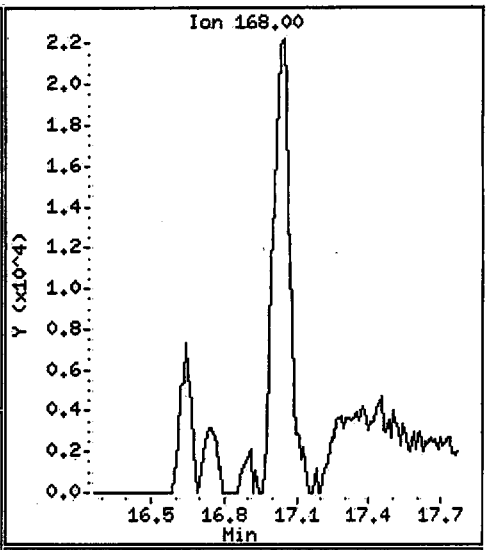
Concentration: 313 ug/Kg

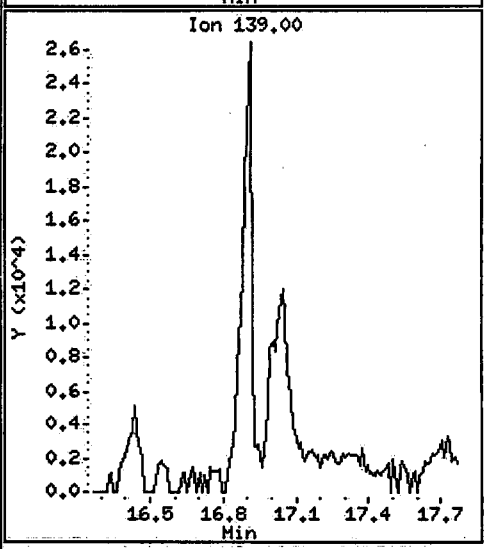












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

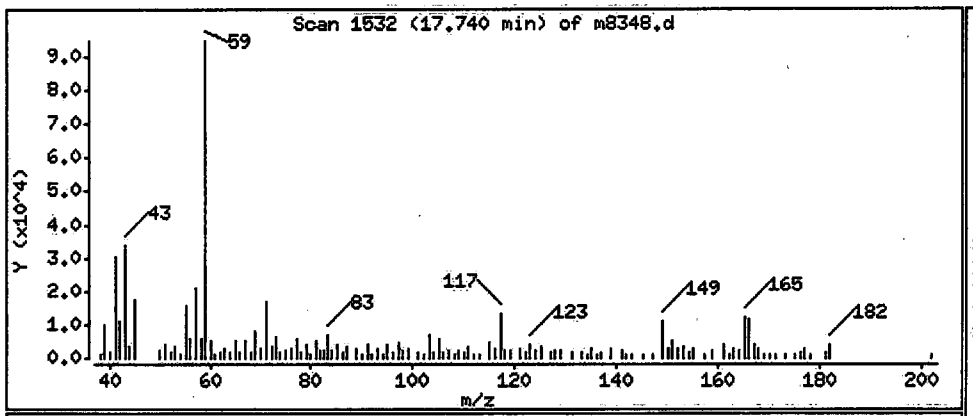
Operator: dce

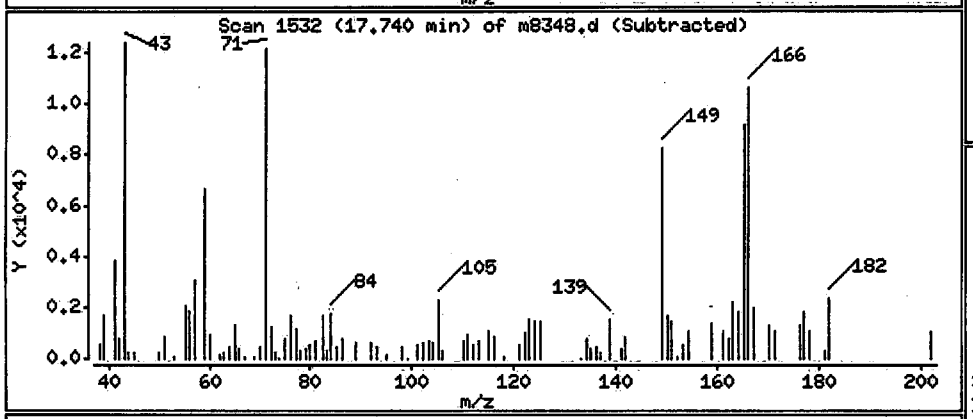
Column phase: ZB-5

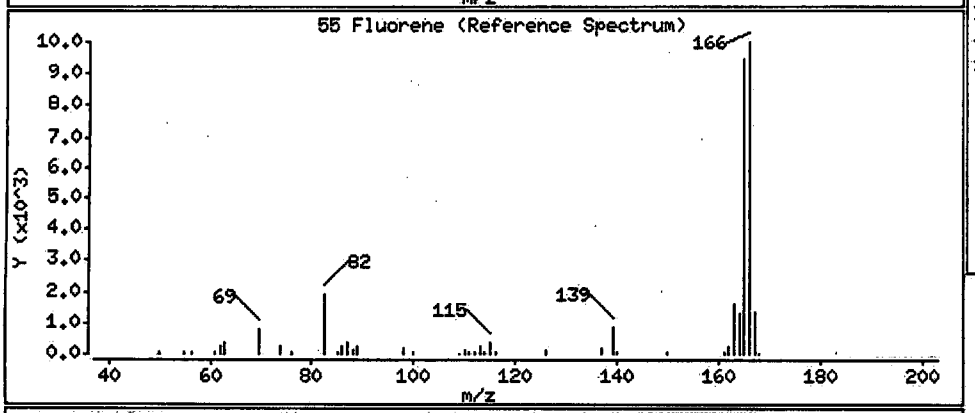
Column diameter: 0.25

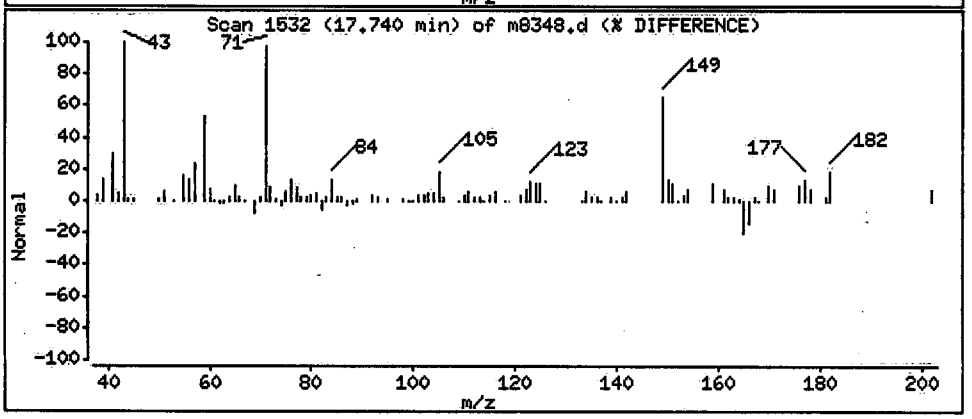
55 Fluorene

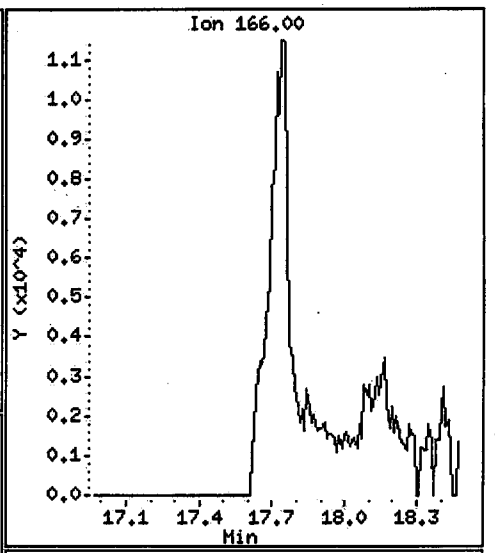
Concentration: 242 ug/Kg

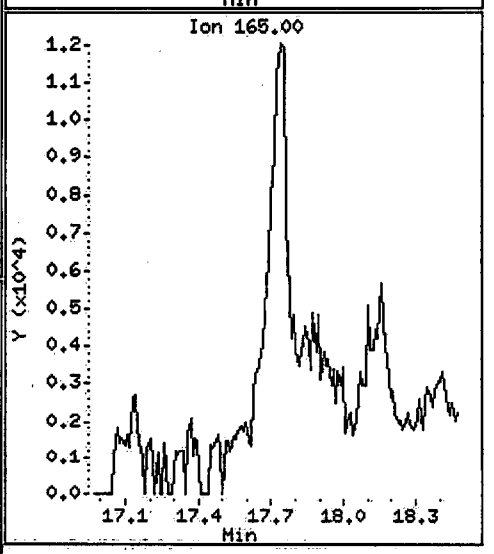












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

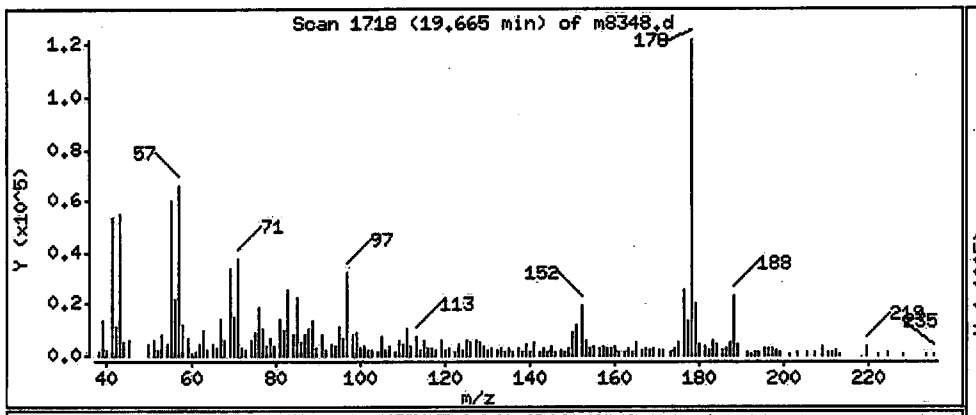
Operator: dce

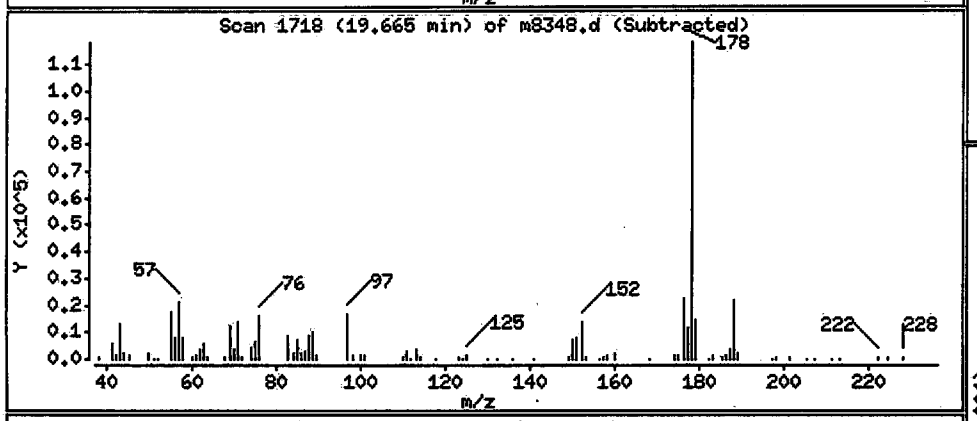
Column phase: ZB-5

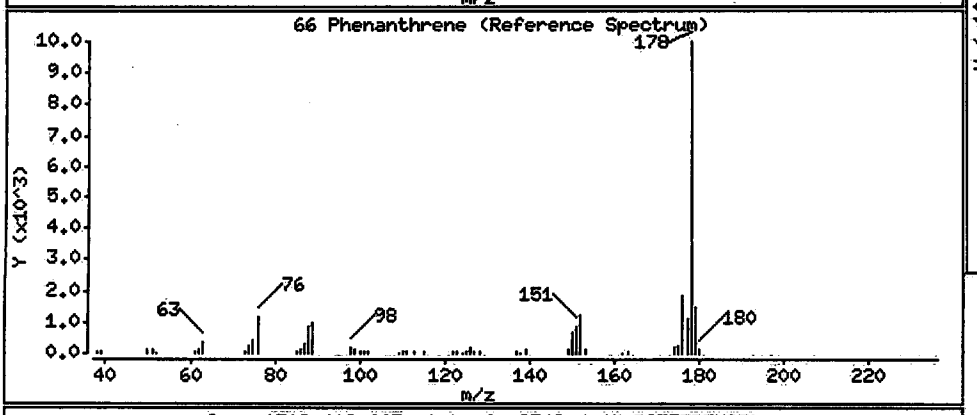
Column diameter: 0.25

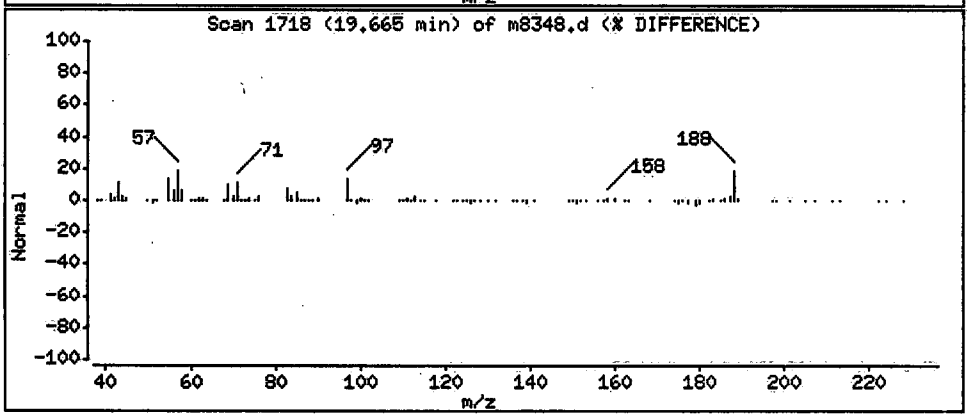
66 Phenanthrene

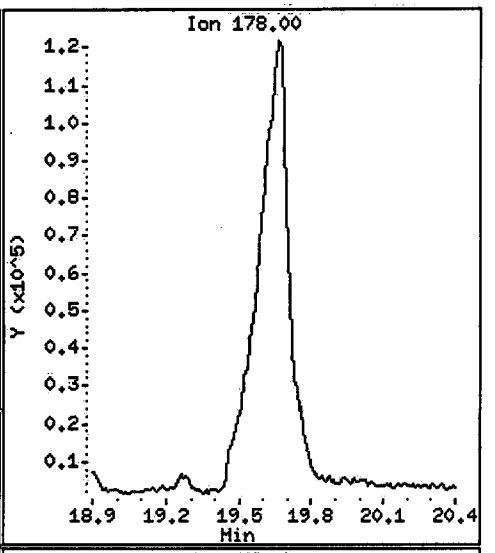
Concentration: 2240 ug/Kg

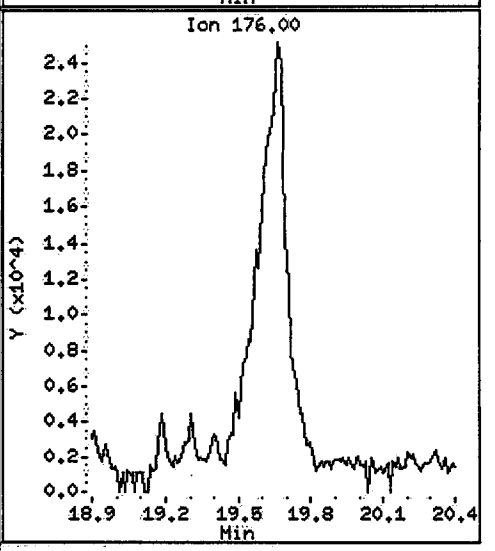












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

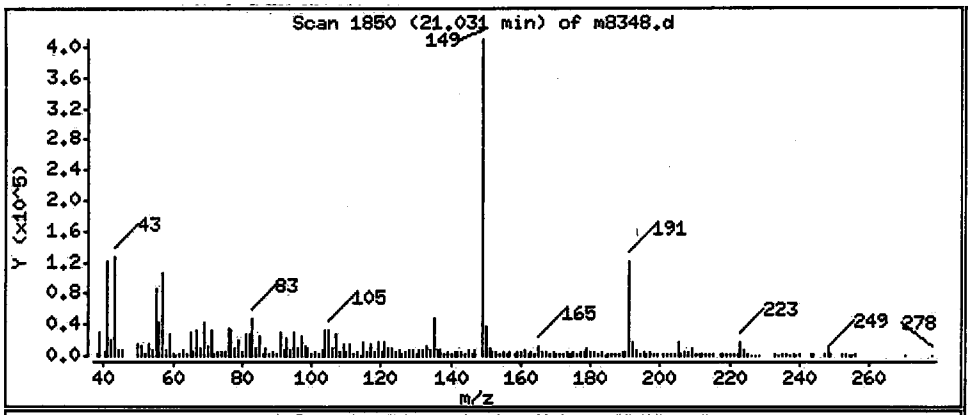
Operator: dce

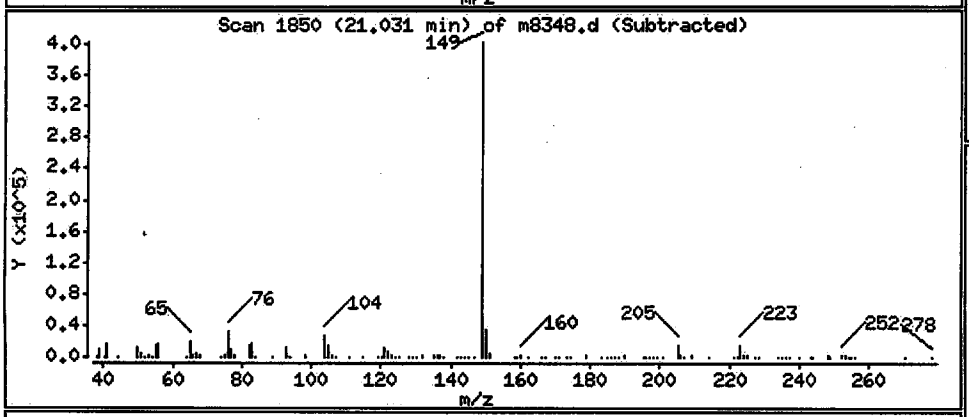
Column phase: ZB-5

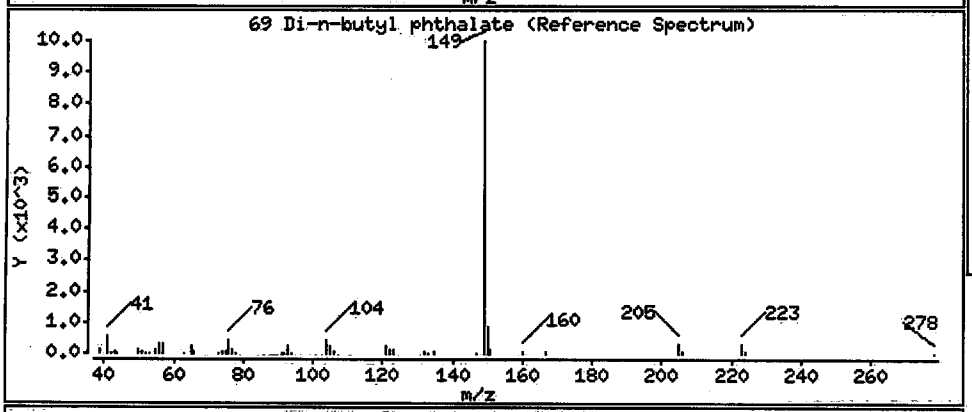
Column diameter: 0.25

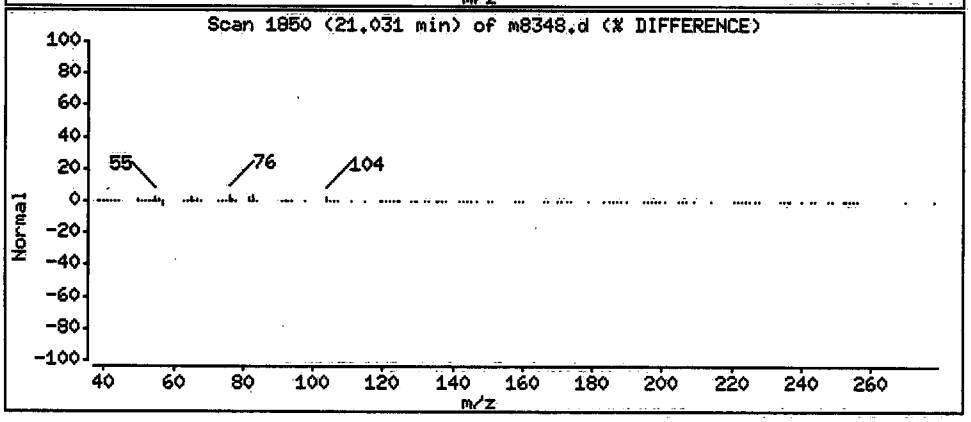
69 Di-n-butyl phthalate

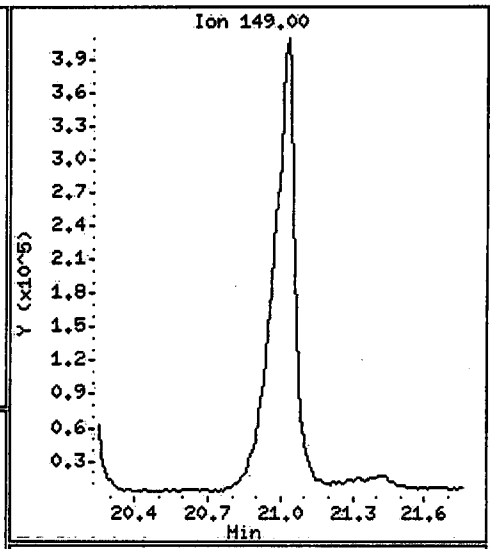
Concentration: 4130 ug/Kg

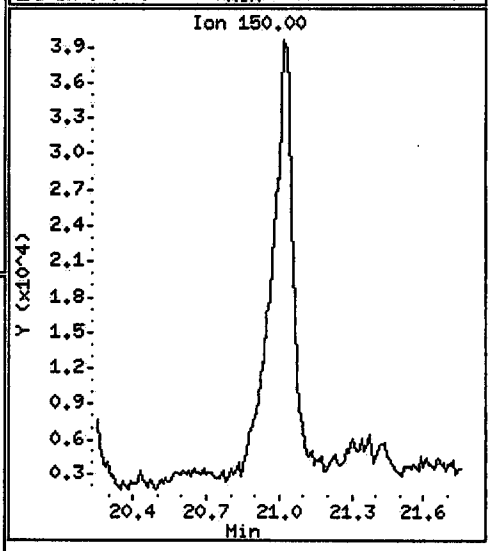












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

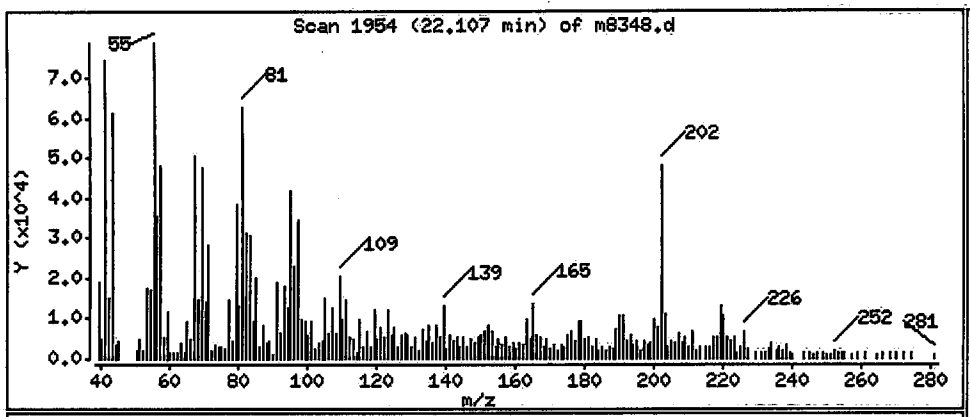
Operator: dce

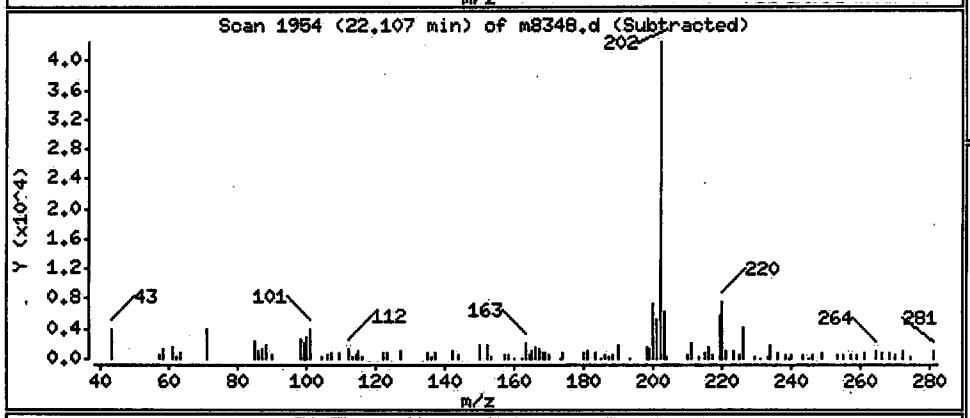
Column phase: ZB-5

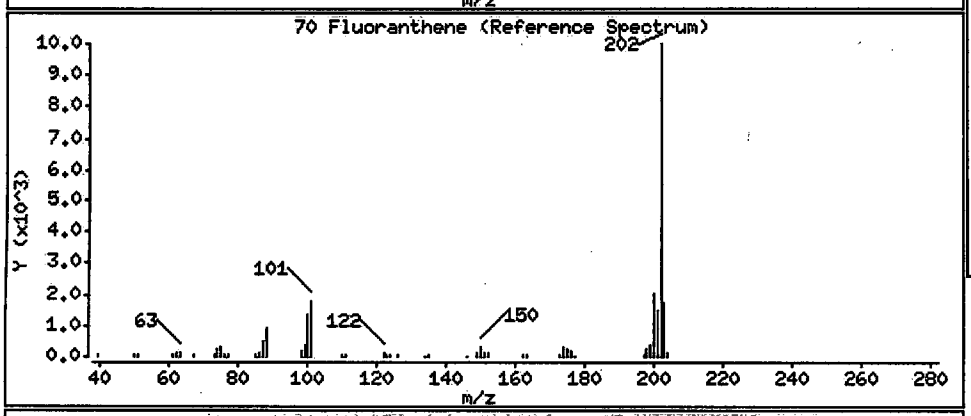
Column diameter: 0.25

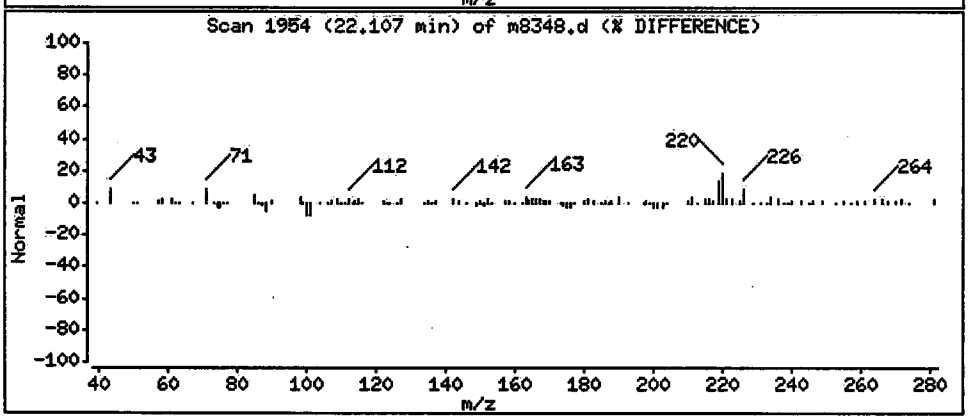
70 Fluoranthene

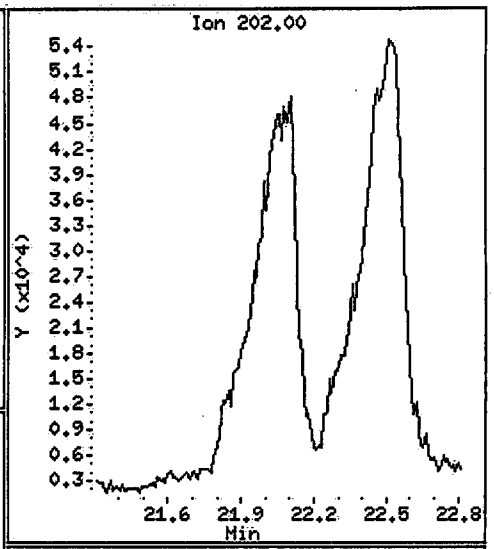
Concentration: 903 ug/Kg

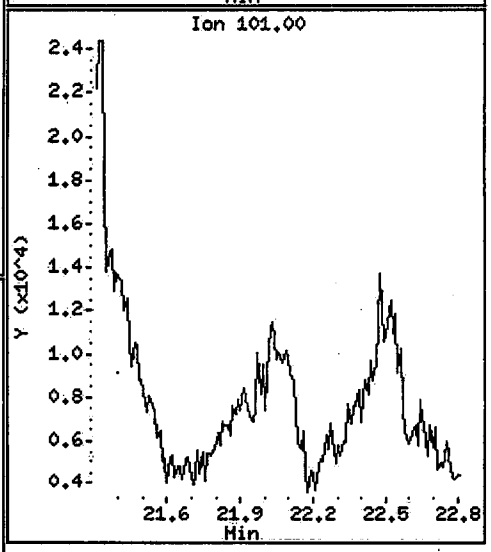












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

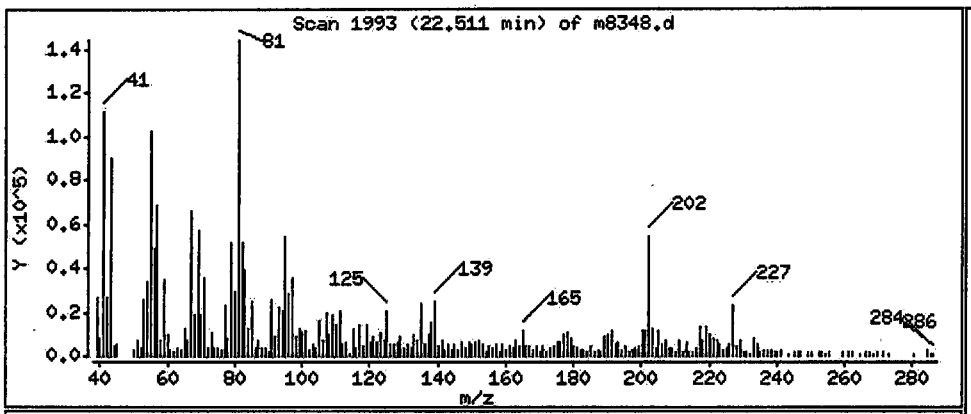
Operator: dce

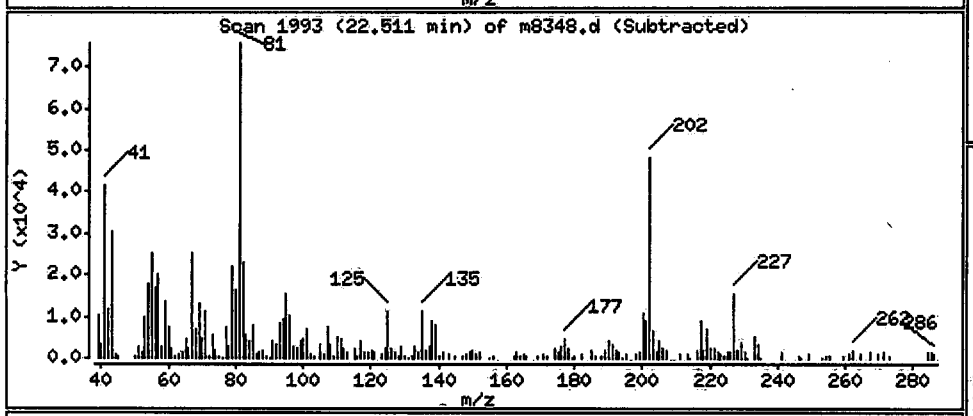
Column phase: ZB-5

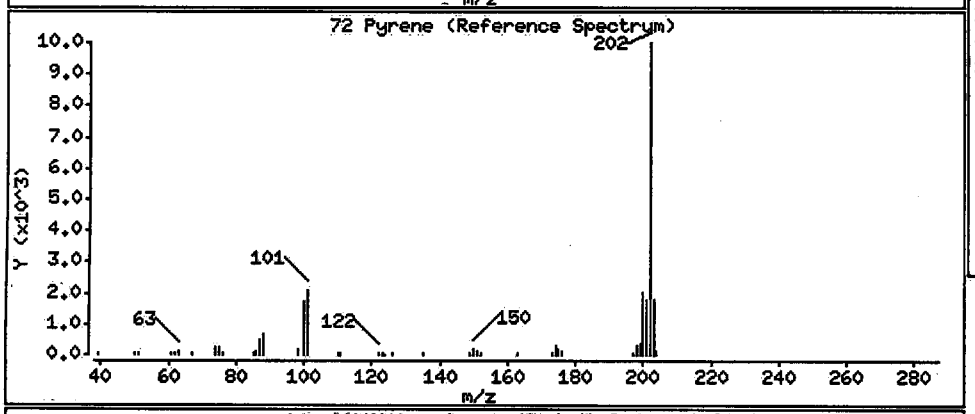
Column diameter: 0.25

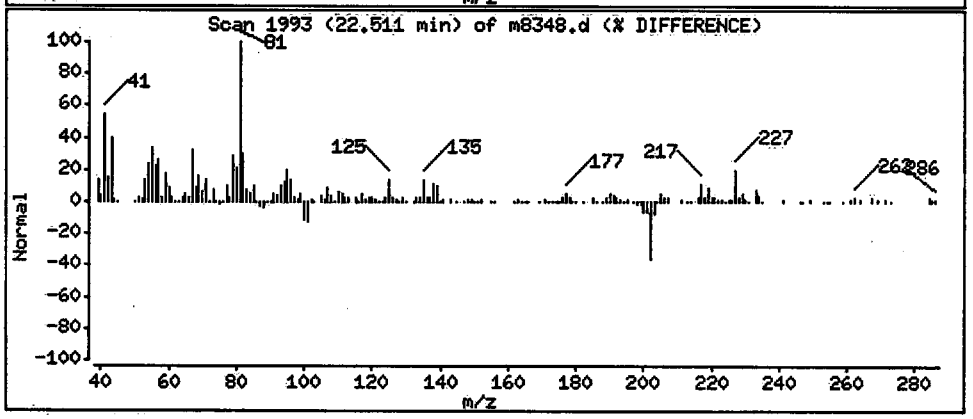
72 Pyrene

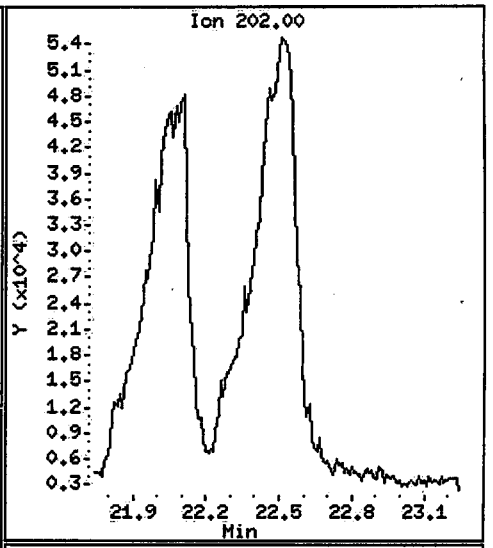
Concentration: 392 ug/Kg

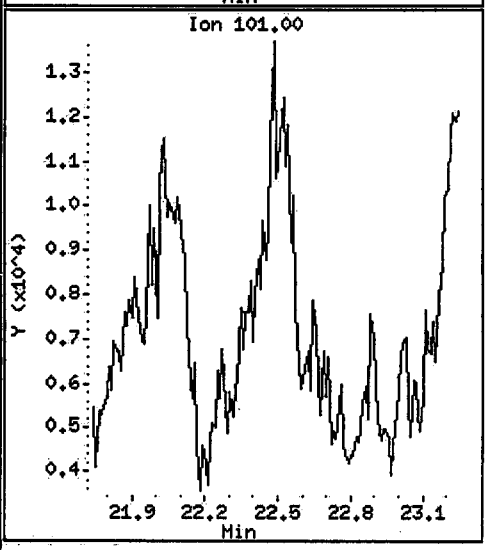












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

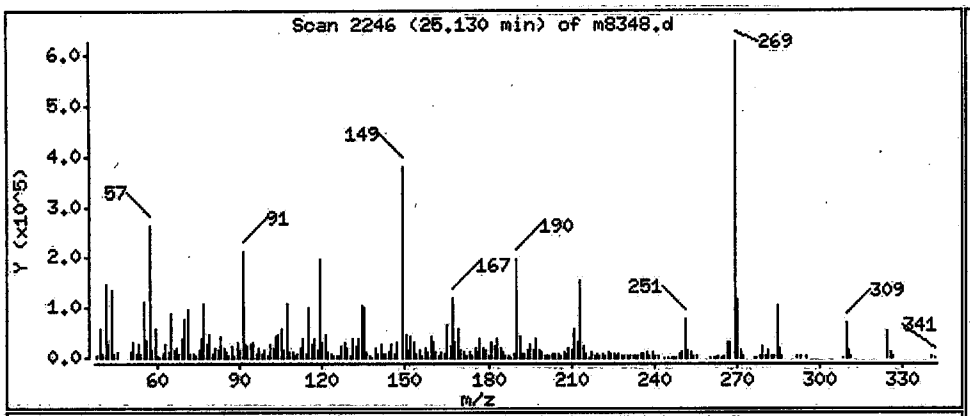
Operator: doe

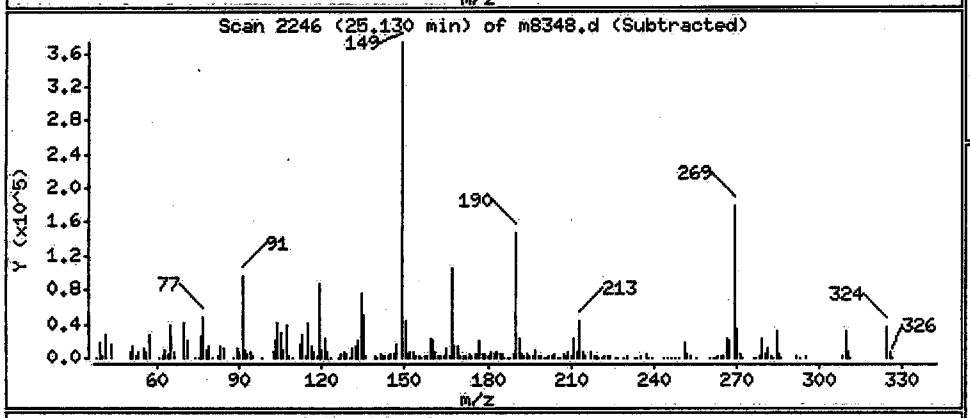
Column phase: ZB-5

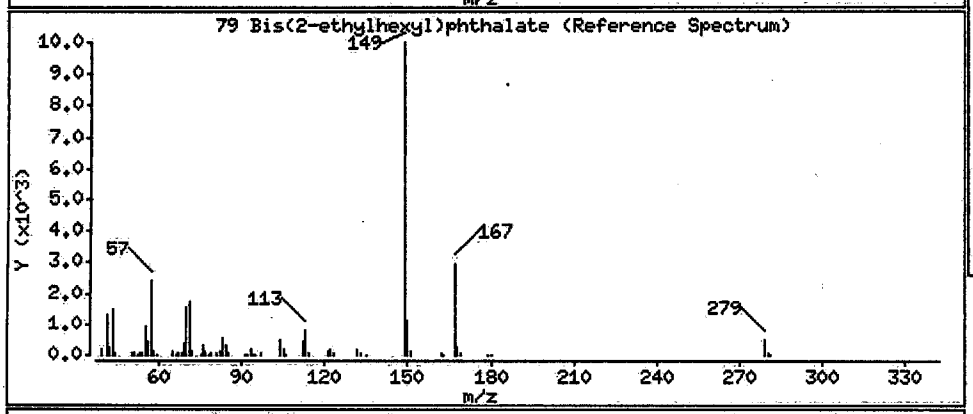
Column diameter: 0.25

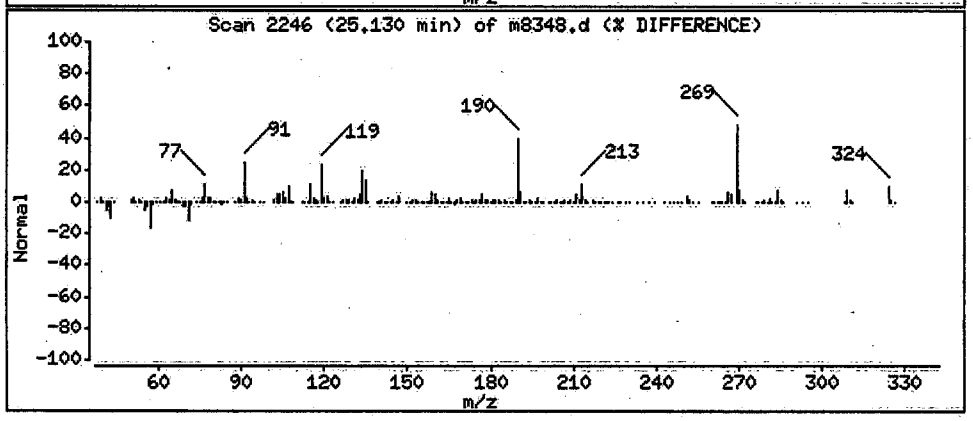
79 Bis(2-ethylhexyl)phthalate

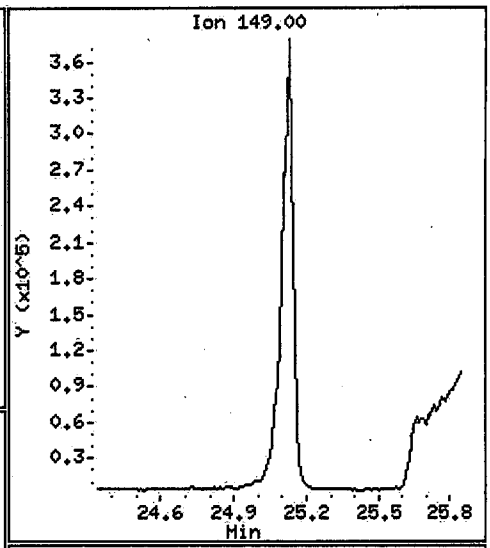
Concentration: 996 ug/Kg

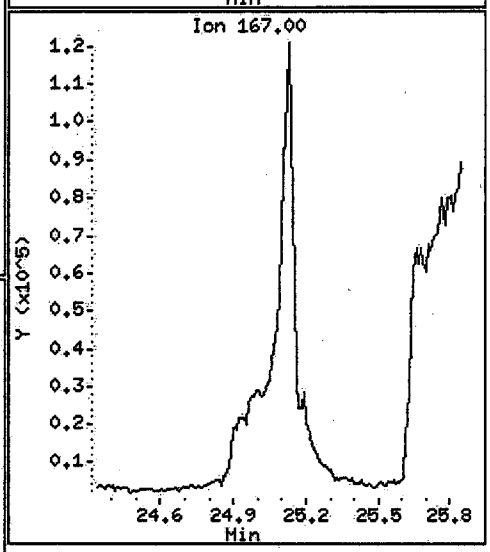












Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

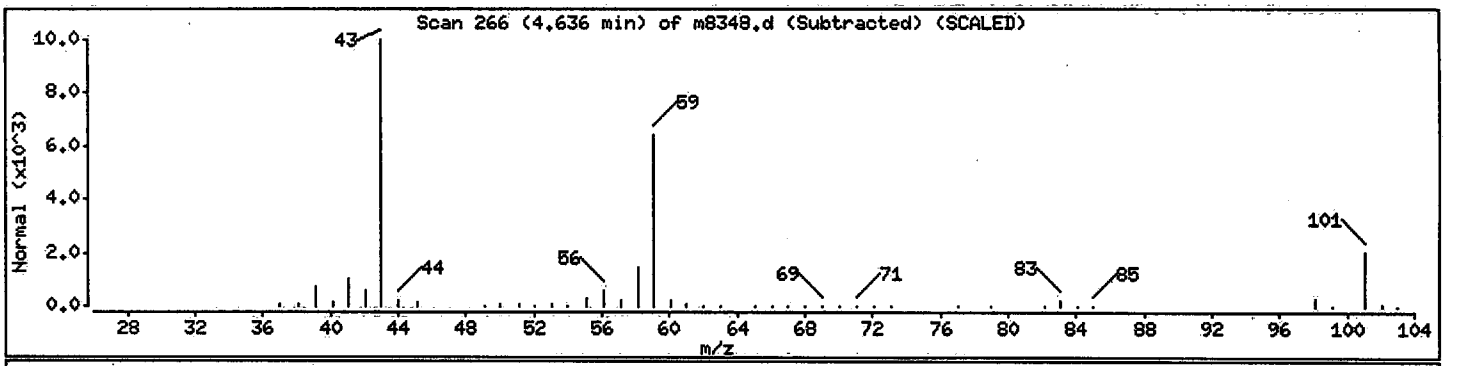
Volume Injected (uL): 2.0

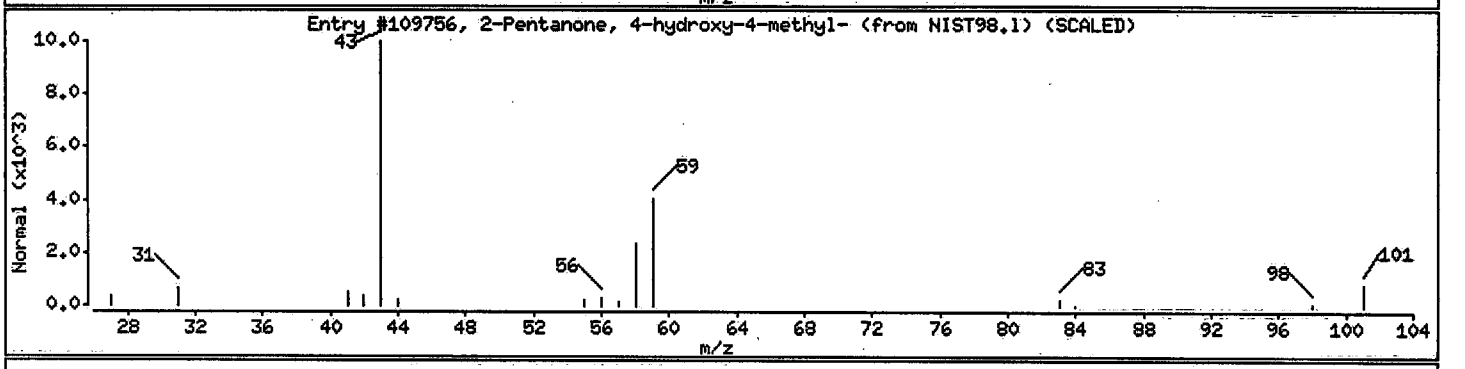
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109756	56	C6H12O2	116





893A

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

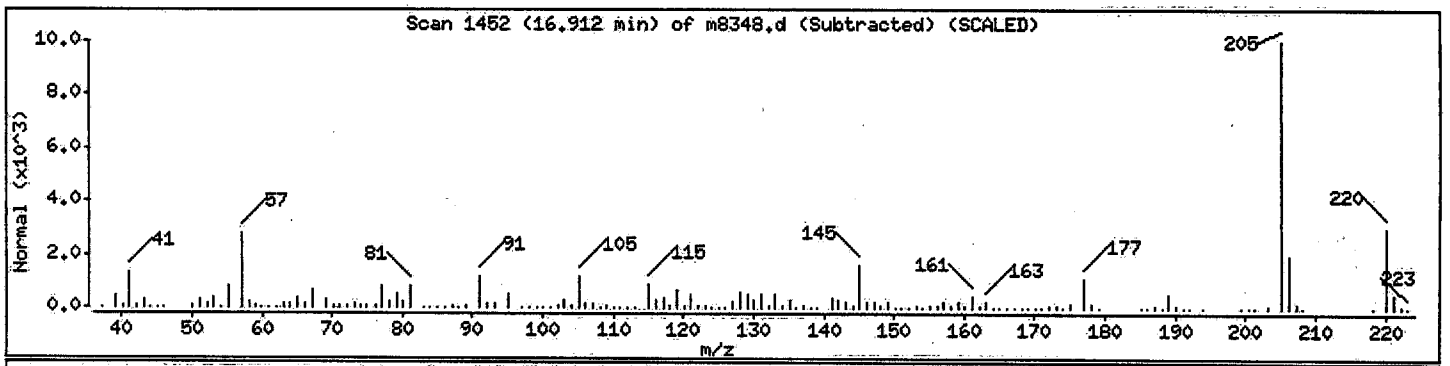
Volume Injected (uL): 2.0

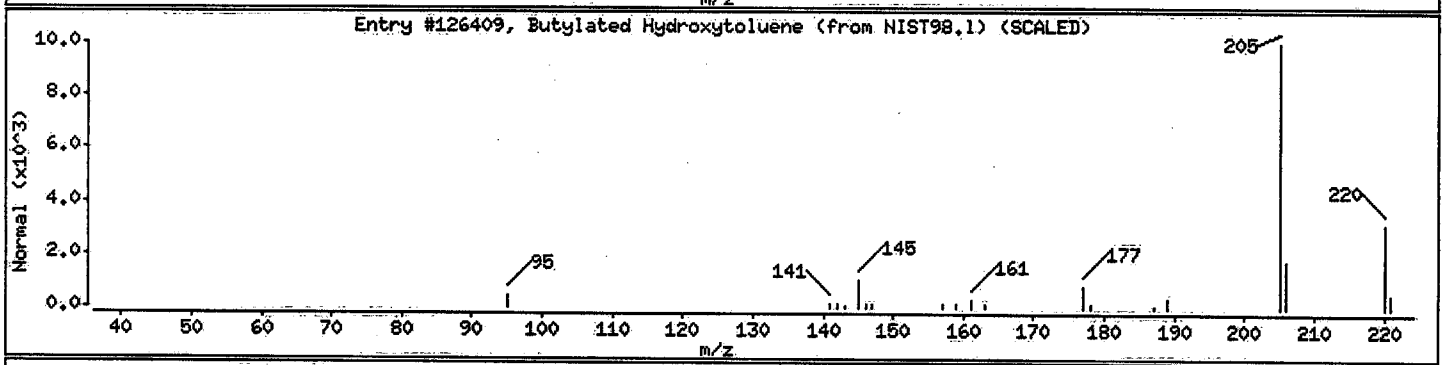
Operator: dce

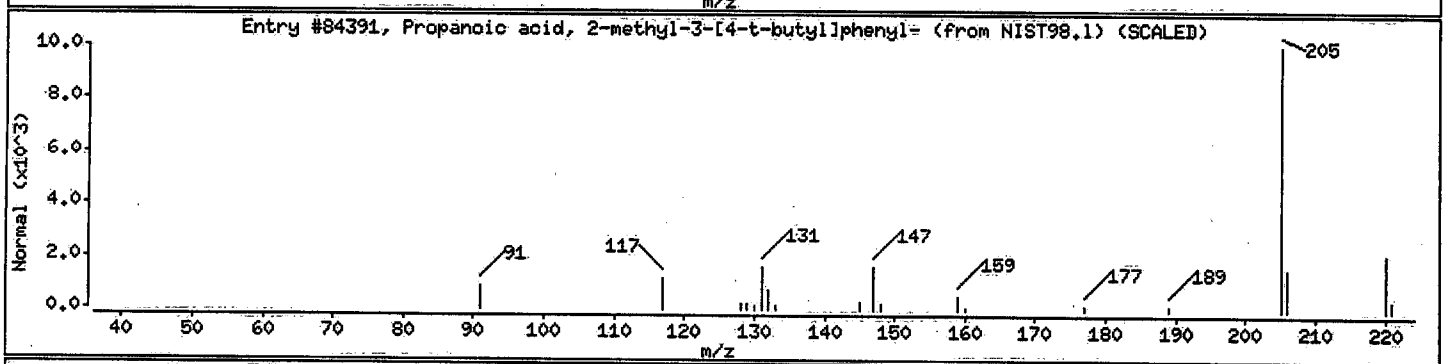
Column phase: ZB-5

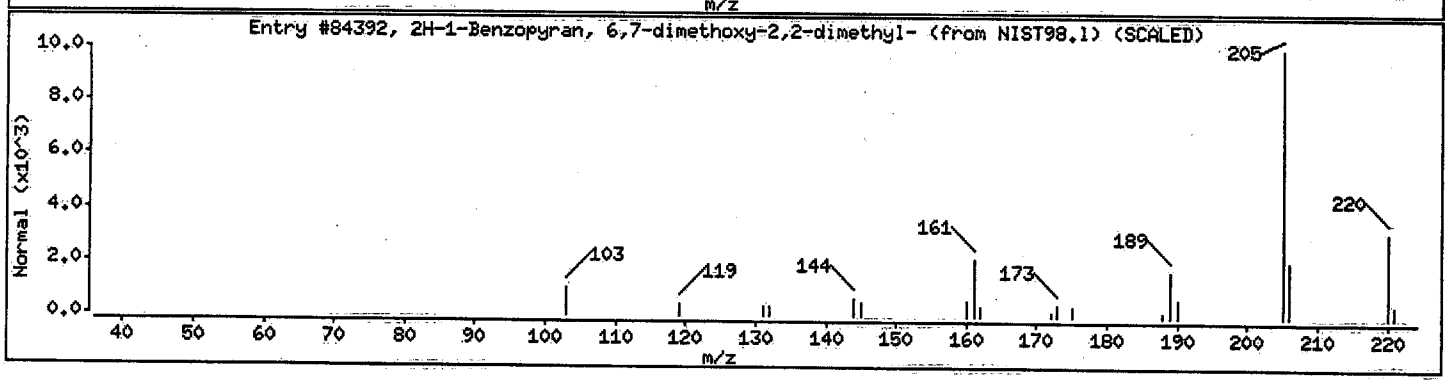
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butylated Hydroxytoluene	128-37-0	NIST98.1	126409	97	C15H24O	220
Propanoic acid, 2-methyl-3-[4-t-butyl]ph	1000131-87-0	NIST98.1	84391	64	C14H20O2	220
2H-1-Benzopyran, 6,7-dimethoxy-2,2-dimet	644-06-4	NIST98.1	84392	59	C13H16O3	220









893B

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

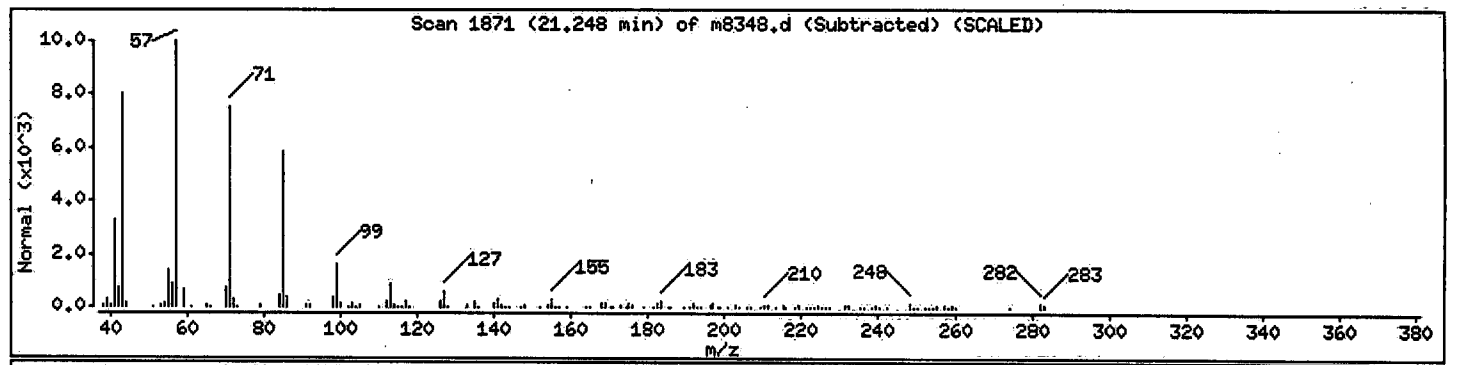
Volume Injected (uL): 2.0

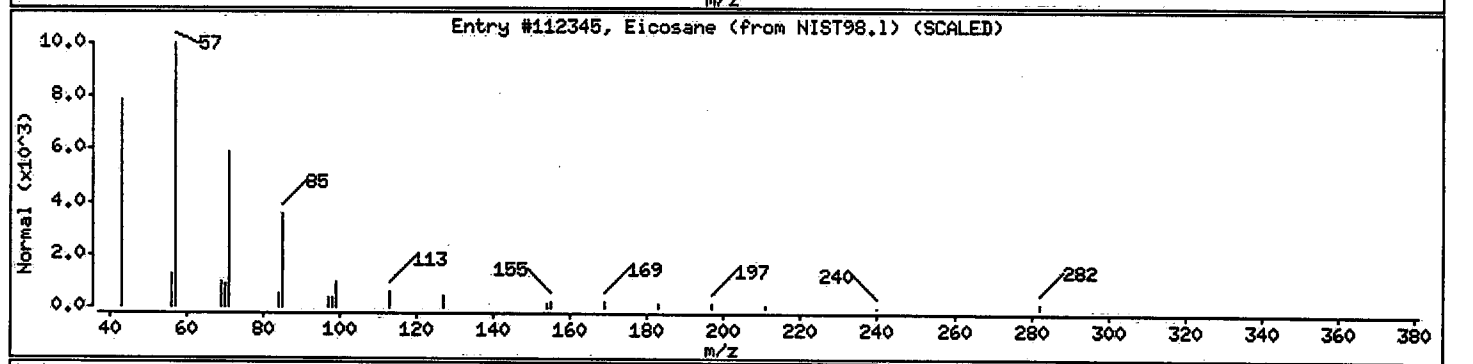
Operator: dce

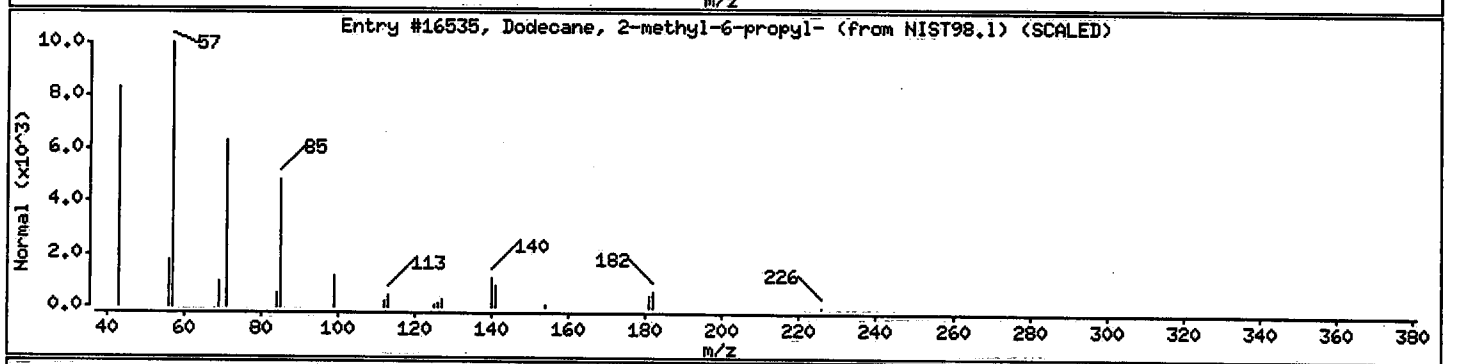
Column phase: ZB-5

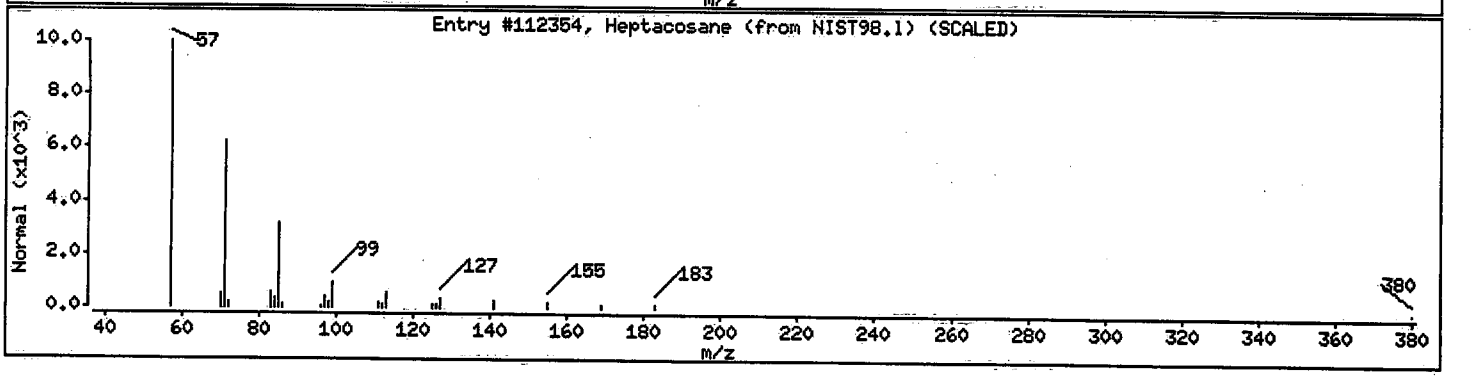
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST98.1	112345	90	C20H42	282
Dodecane, 2-methyl-6-propyl-	55045-08-4	NIST98.1	16535	86	C16H34	226
Heptacosane	593-49-7	NIST98.1	112354	72	C27H56	380









893C

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

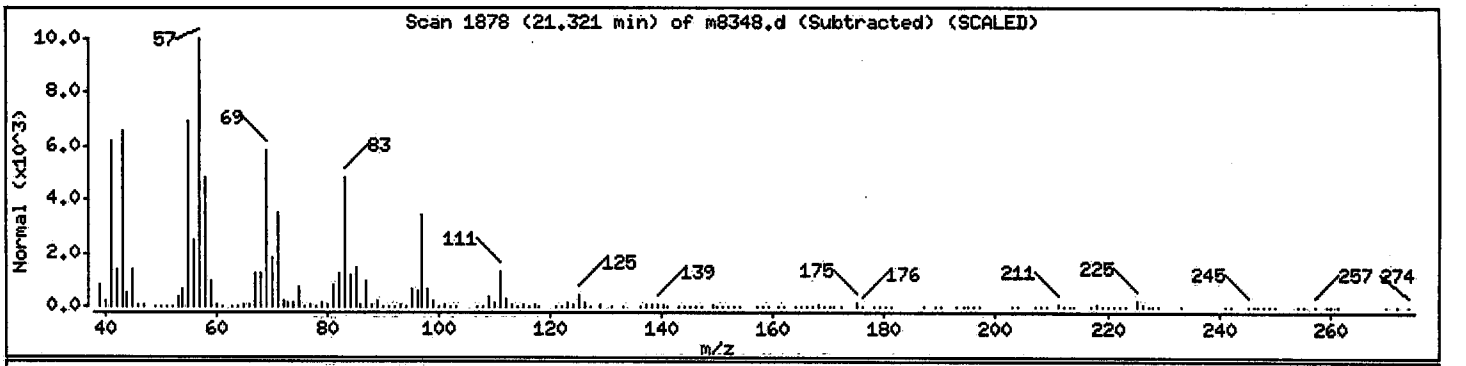
Volume Injected (uL): 2.0

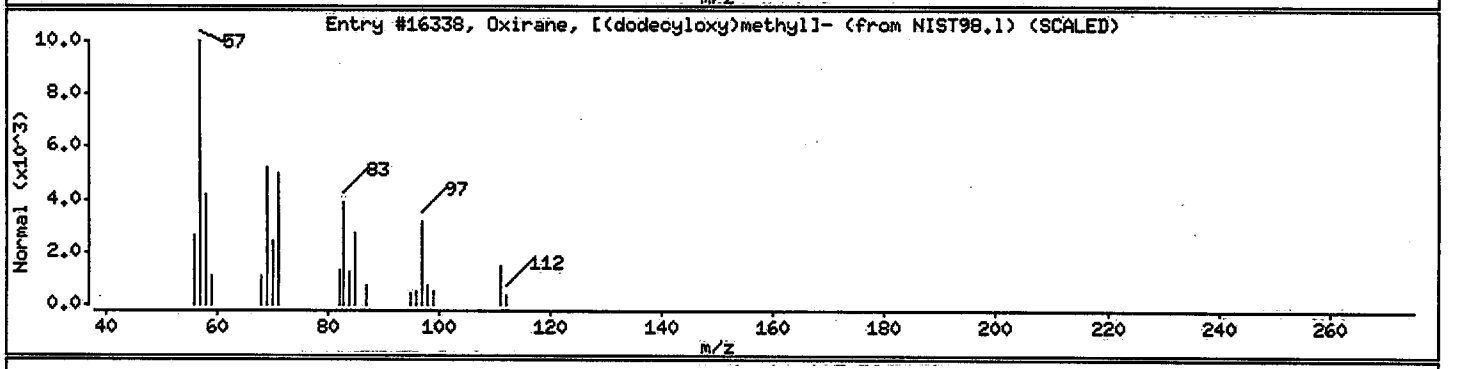
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, [(dodecyloxy)methyl]-	2461-18-9	NIST98.l	16338	52	C15H30O2	242





893D

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

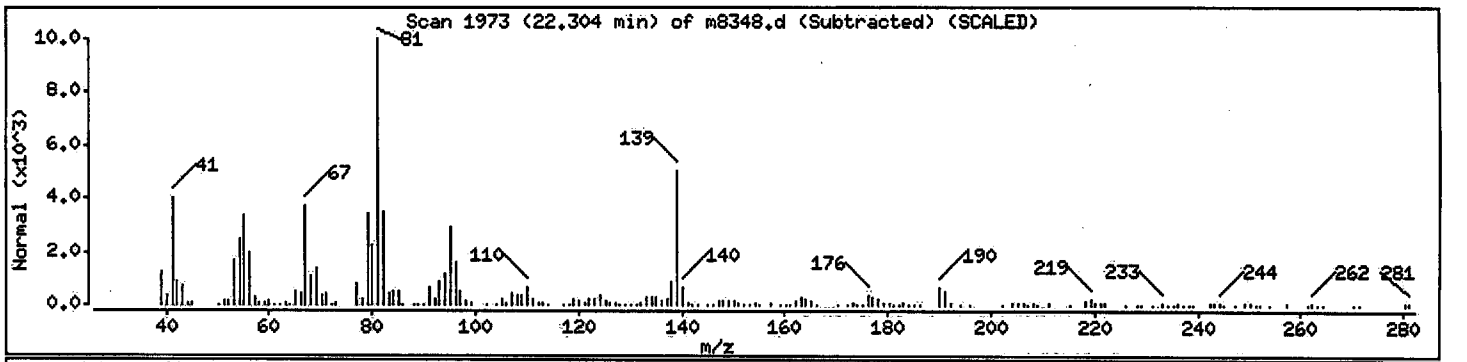
Volume Injected (uL): 2.0

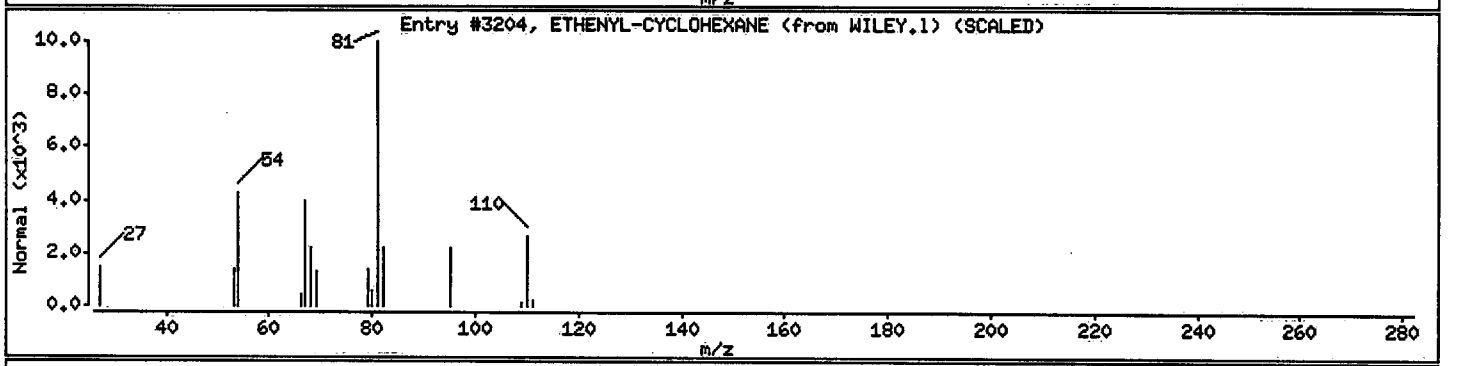
Operator: dce

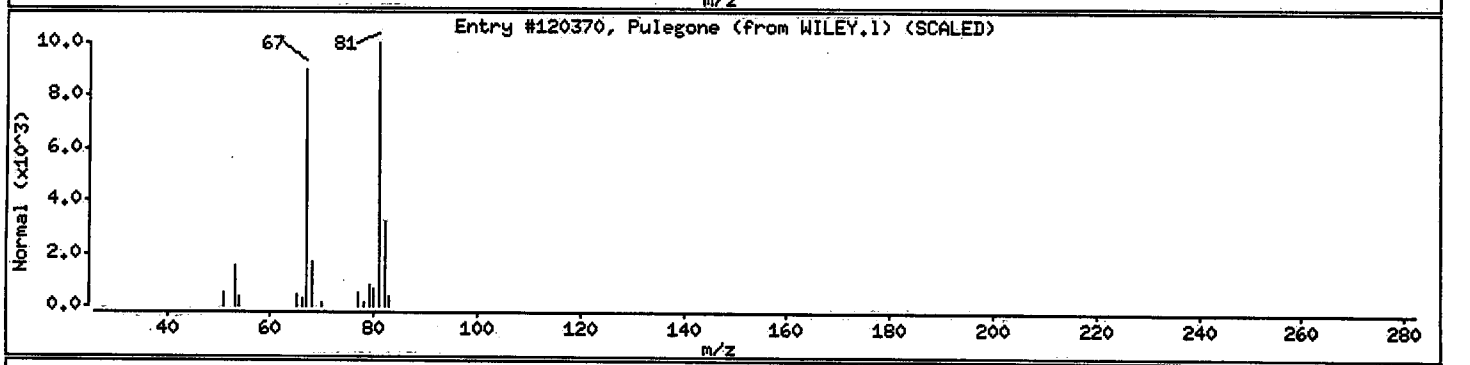
Column phase: ZB-5

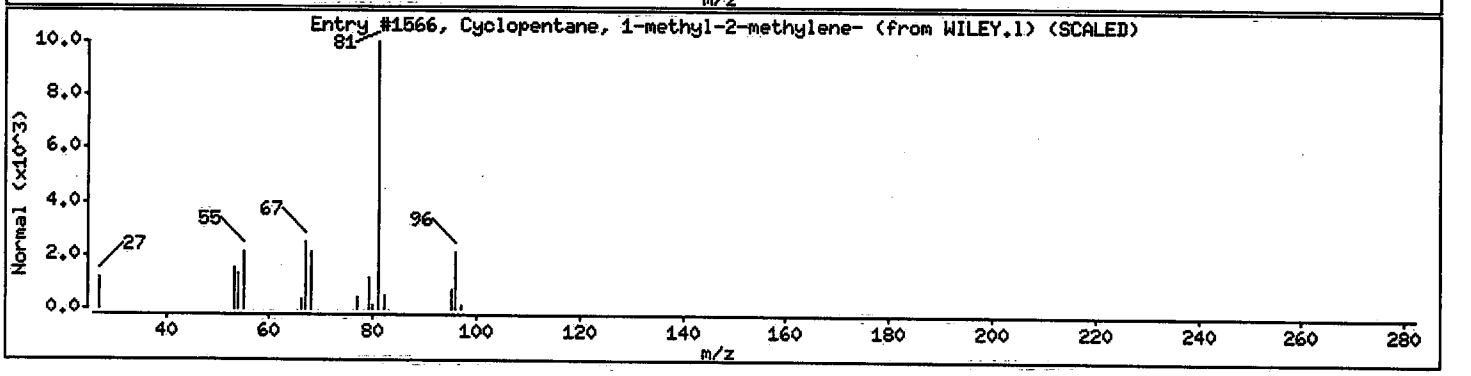
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
ETHENYL-CYCLOHEXANE	0-00-0	WILEY.l	3204	47	C8H14	110
Pulegone	89-82-7	WILEY.l	120370	38	C10H16O	152
Cyclopentane, 1-methyl-2-methylene-	41158-41-2	WILEY.l	1566	38	C7H12	96









843E

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

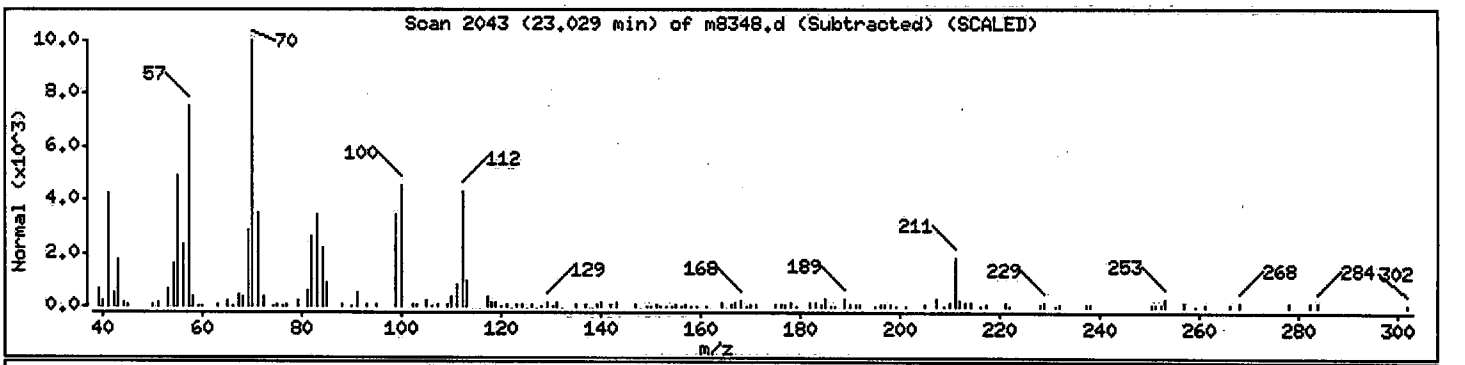
Volume Injected (uL): 2.0

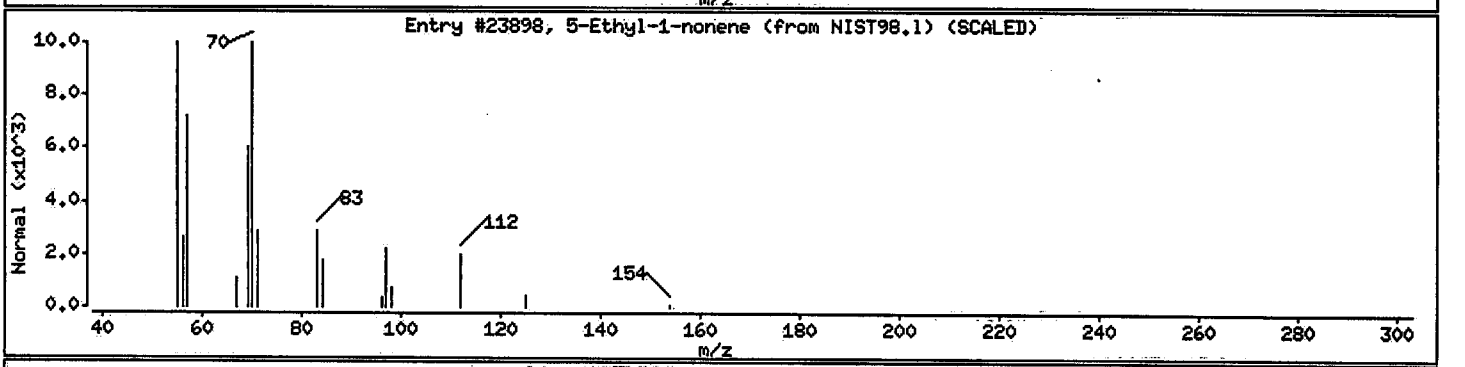
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Ethyl-1-nonene	19780-74-6	NIST98.1	23898	50	C11H22	154





893F

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

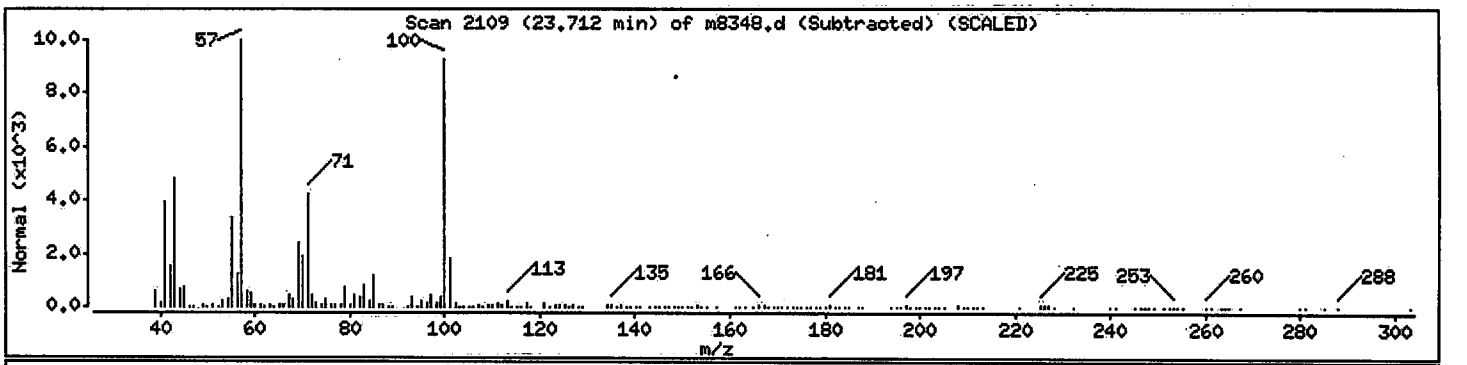
Volume Injected (uL): 2.0

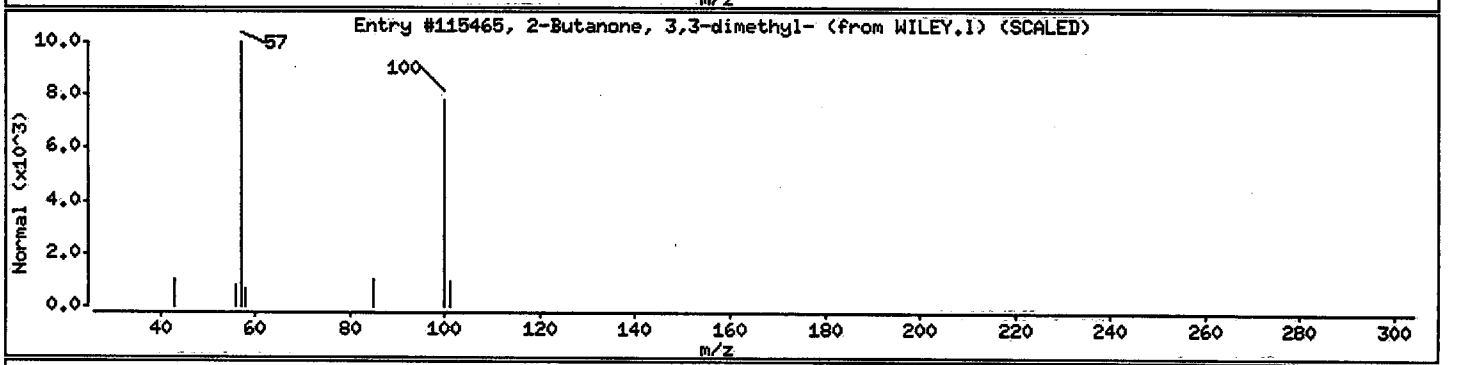
Operator: dce

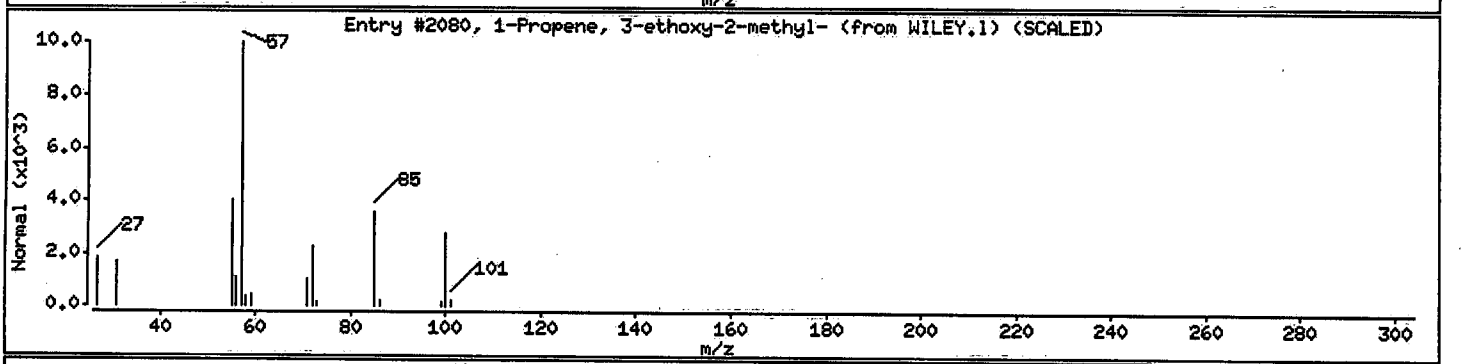
Column phase: ZB-5

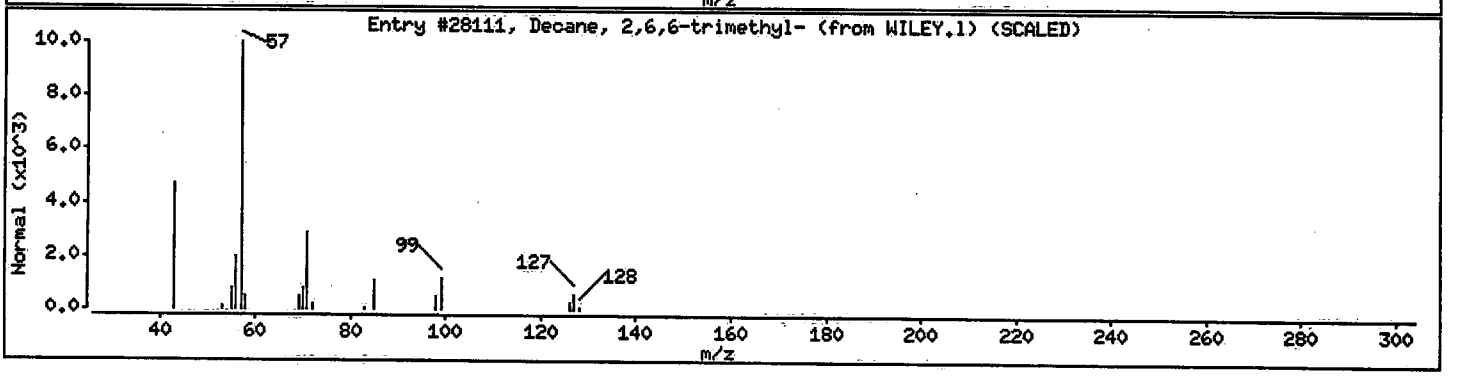
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.l	115465	43	C6H12O	100
1-Propene, 3-ethoxy-2-methyl-	24309-28-2	WILEY.l	2080	38	C6H12O	100
Decane, 2,6,6-trimethyl-	62108-24-1	WILEY.l	28111	27	C13H28	184









8936

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

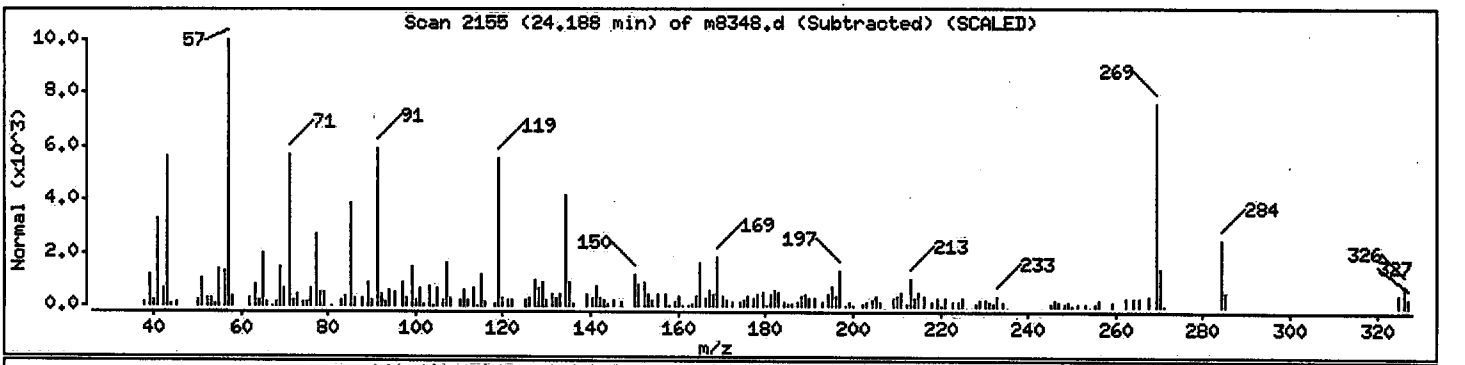
Volume Injected (uL): 2.0

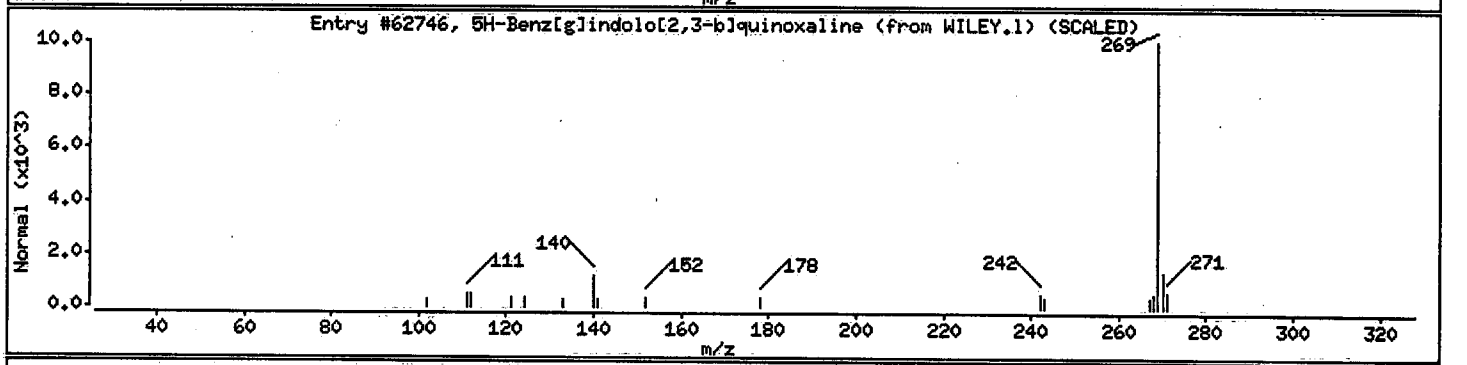
Operator: dce

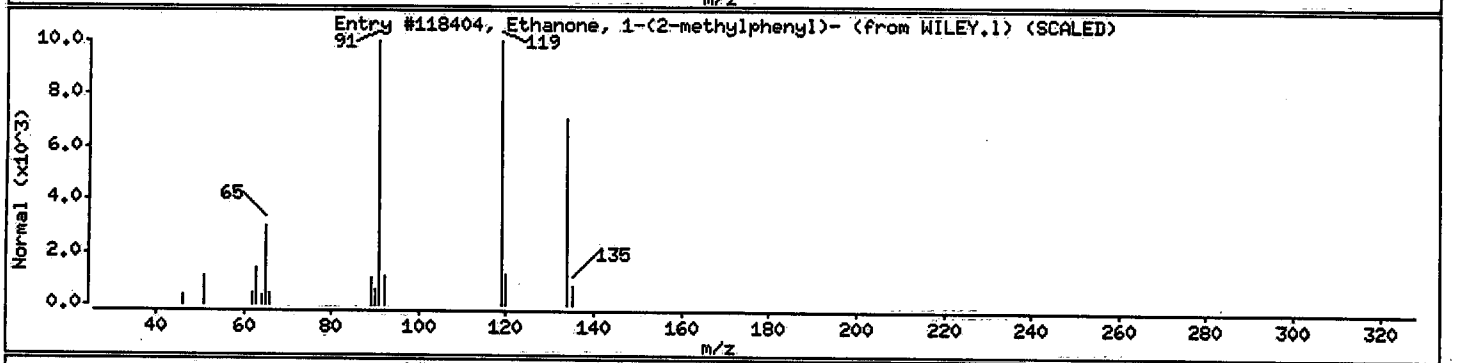
Column phase: ZB-5

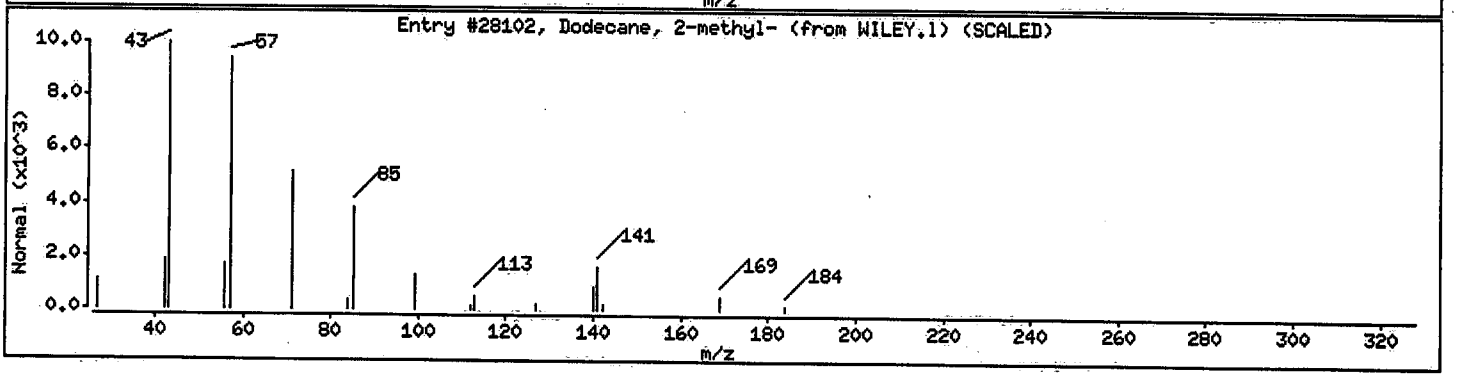
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5H-Benz[g]indolo[2,3-b]quinoxaline	249-06-9	WILEY.1	62746	27	C18H11N3	269
Ethanone, 1-(2-methylphenyl)-	577-16-2	WILEY.1	118404	25	C9H10O	134
Dodecane, 2-methyl-	1560-97-0	WILEY.1	28102	25	C13H28	184









893 H

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

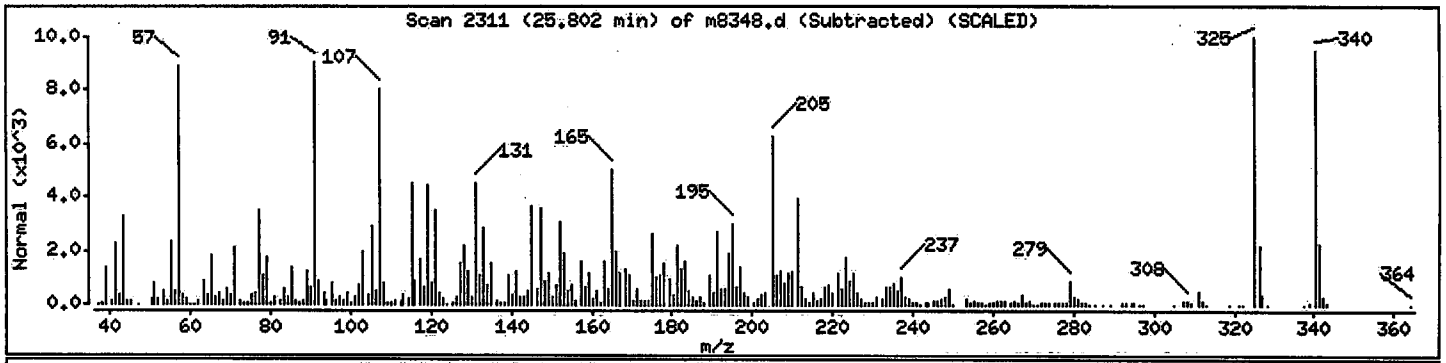
Volume Injected (uL): 2.0

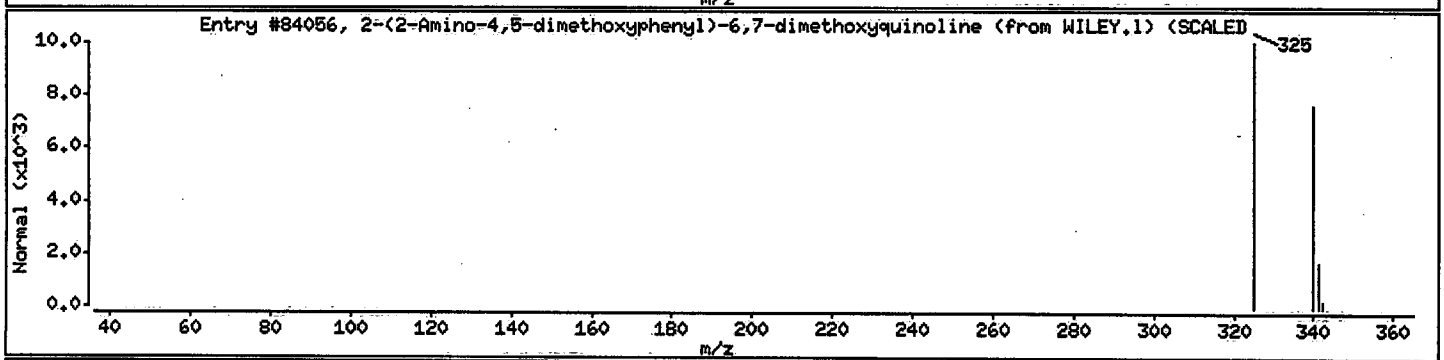
Operator: doe

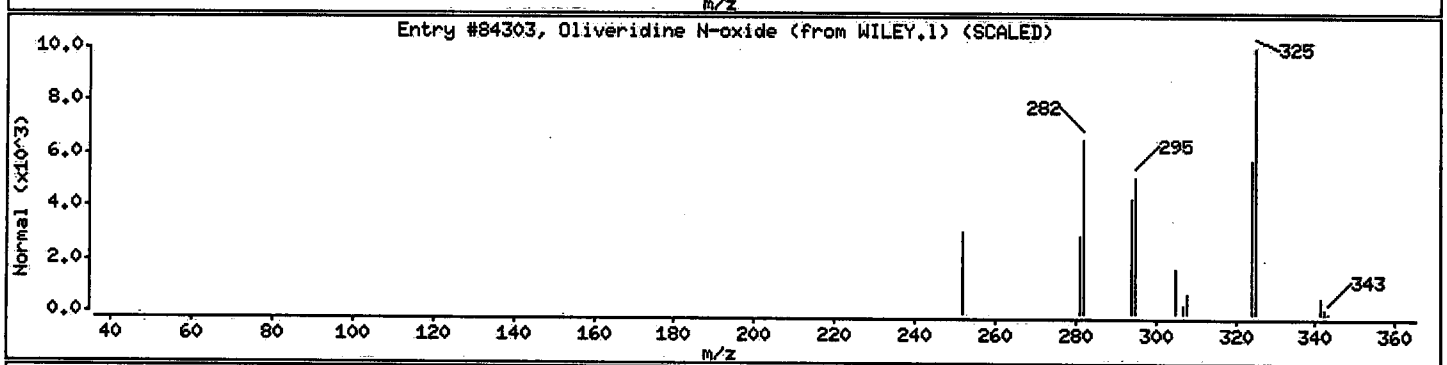
Column phase: ZB-5

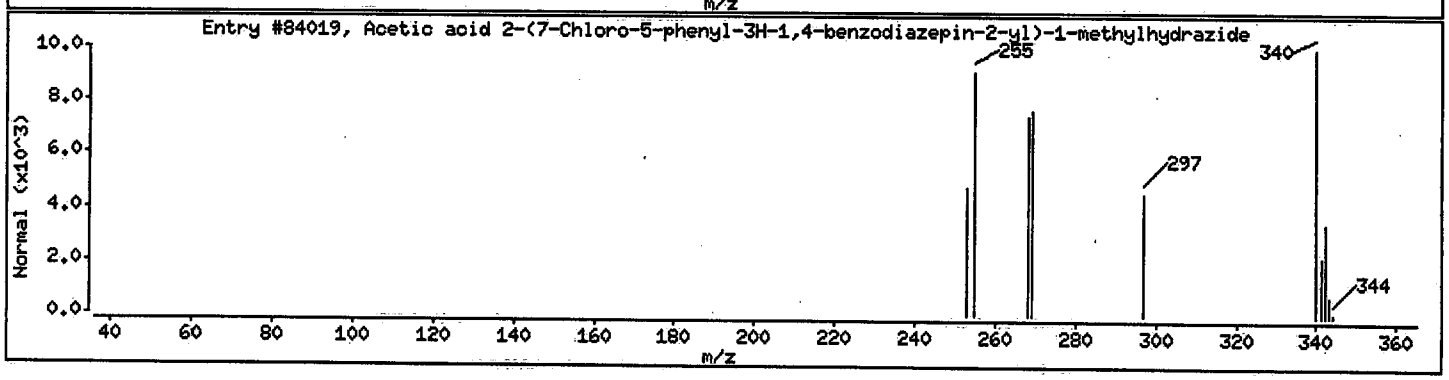
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime	76798-50-0	WILEY.1	84056	78	C19H20N2O4	340
Oliveridine N-oxide	62173-00-6	WILEY.1	84303	45	C19H19NO5	341
Acetic acid 2-(7-Chloro-5-phenyl-3H-1,4-	41154-37-4	WILEY.1	84019	43	C18H17ClN4O	340









893 I

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

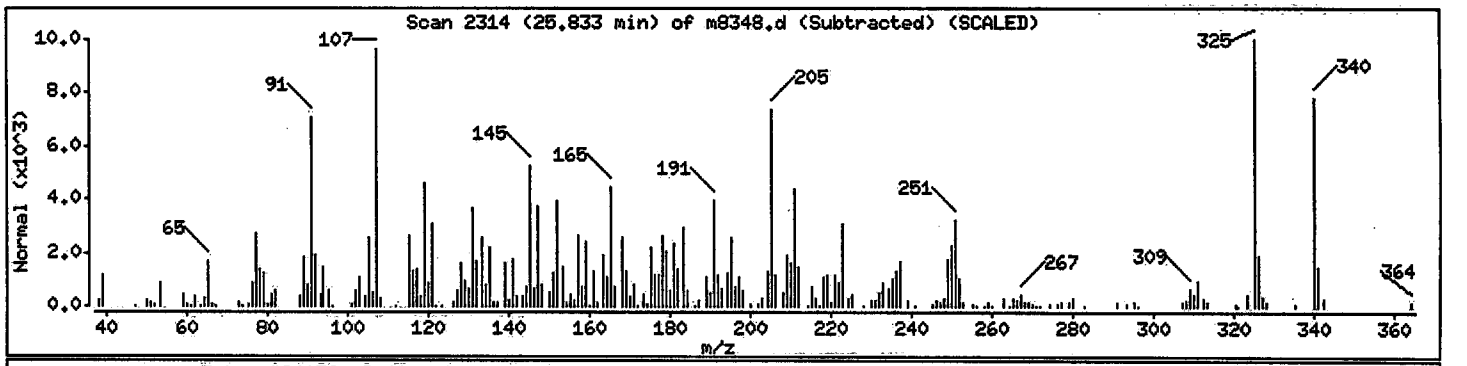
Volume Injected (uL): 2.0

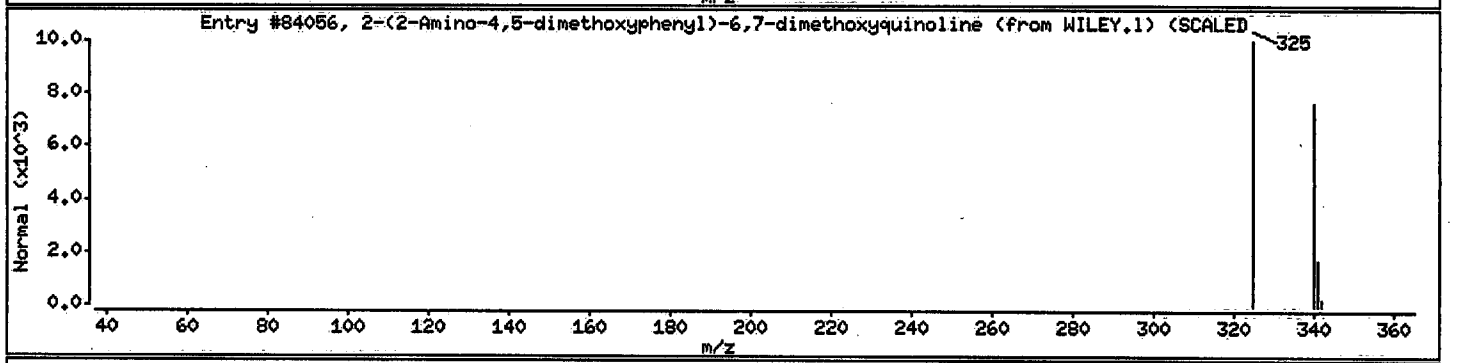
Operator: doe

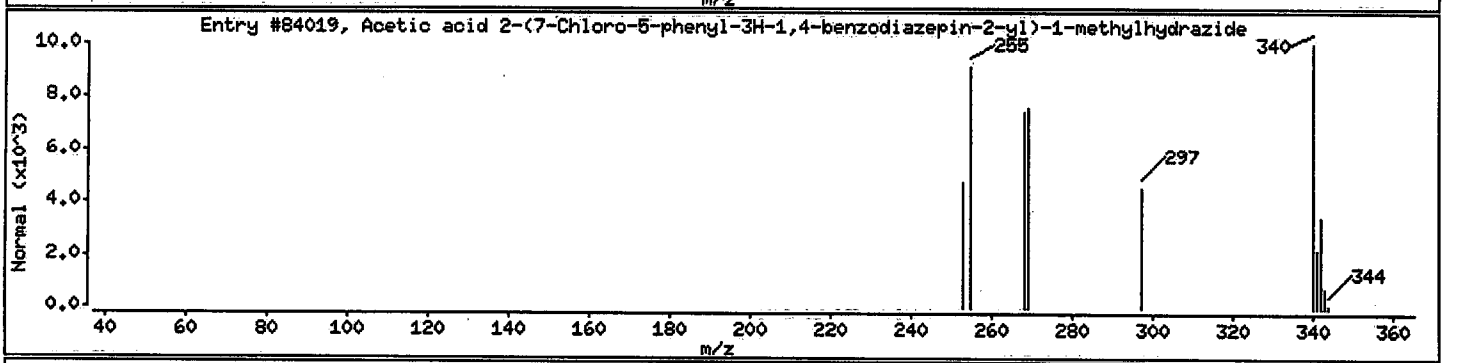
Column phase: ZB-5

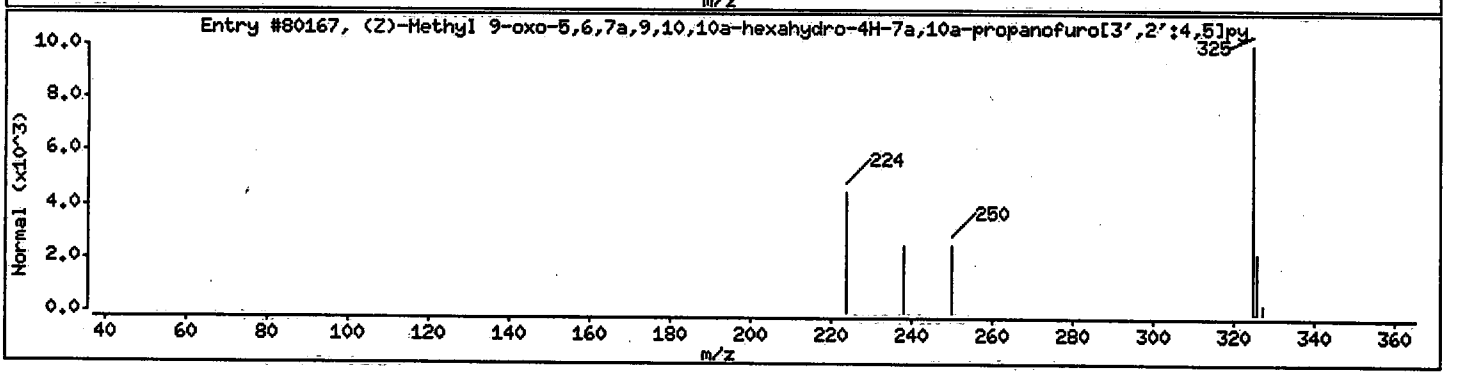
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime	76798-50-0	WILEY.1	84056	83	C19H20N2O4	340
Acetic acid 2-(7-Chloro-5-phenyl-3H-1,4-	41154-37-4	WILEY.1	84019	43	C18H17ClN4O	340
(Z)-Methyl 9-oxo-5,6,7a,9,10,10a-hexahyd	86340-32-1	WILEY.1	80167	38	C19H19NO4	325









893 J

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

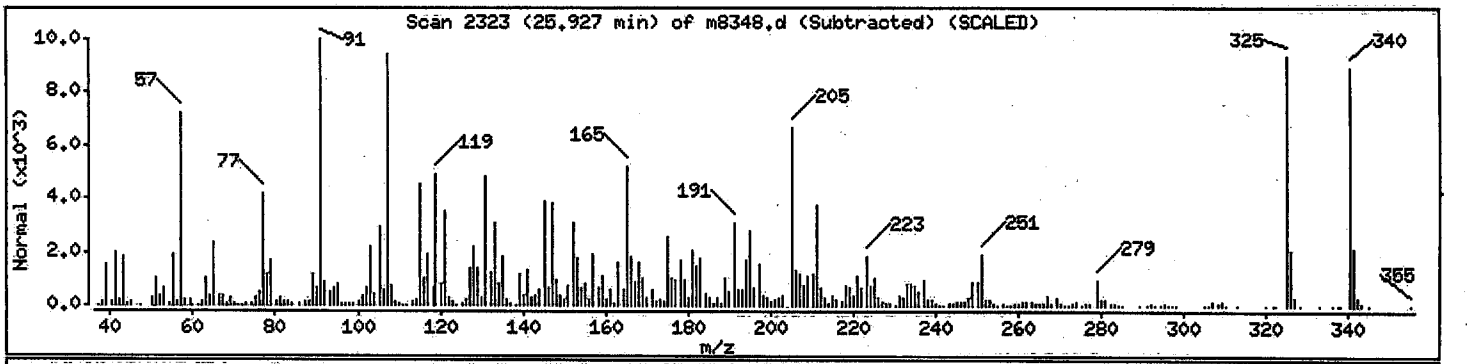
Volume Injected (uL): 2.0

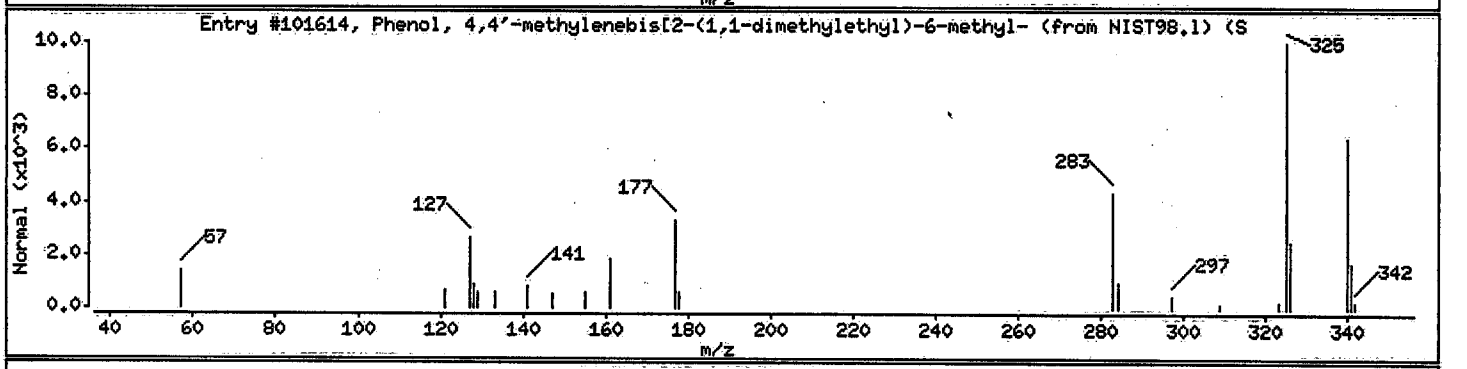
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	NIST98.1	101614	55	C23H32O2	340





893K

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

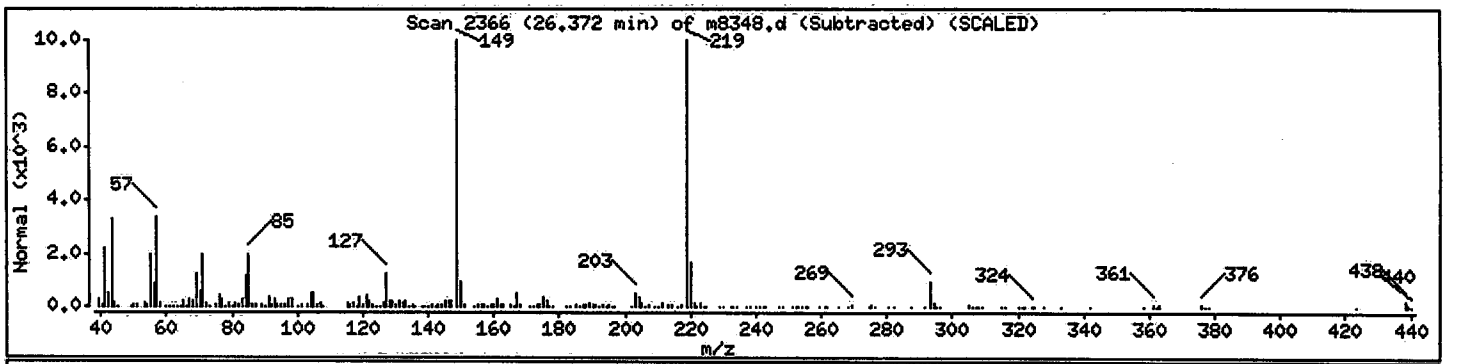
Volume Injected (uL): 2.0

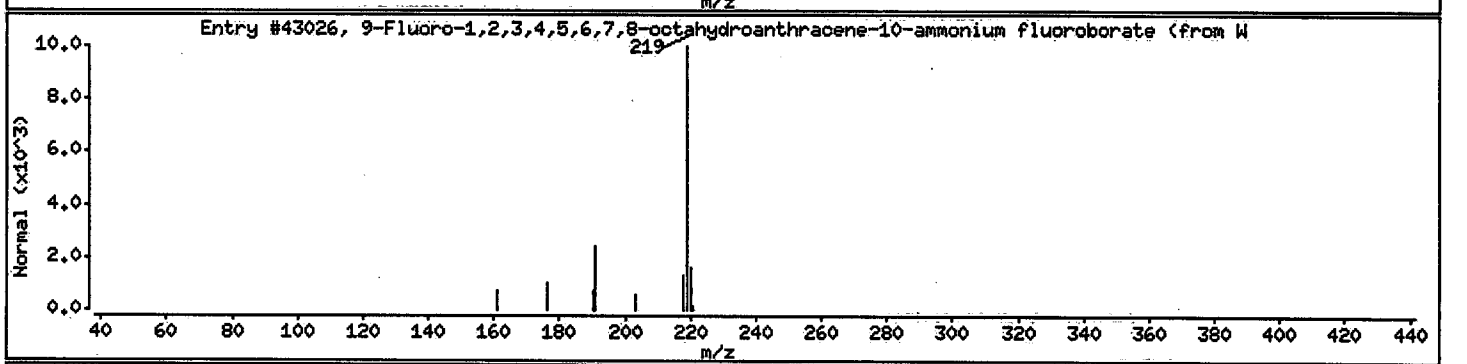
Operator: dce

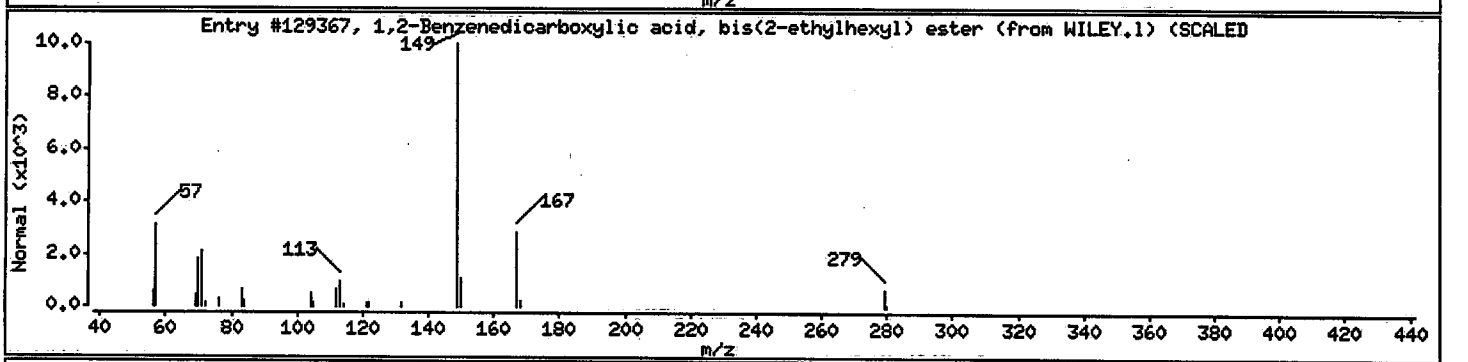
Column phase: ZB-5

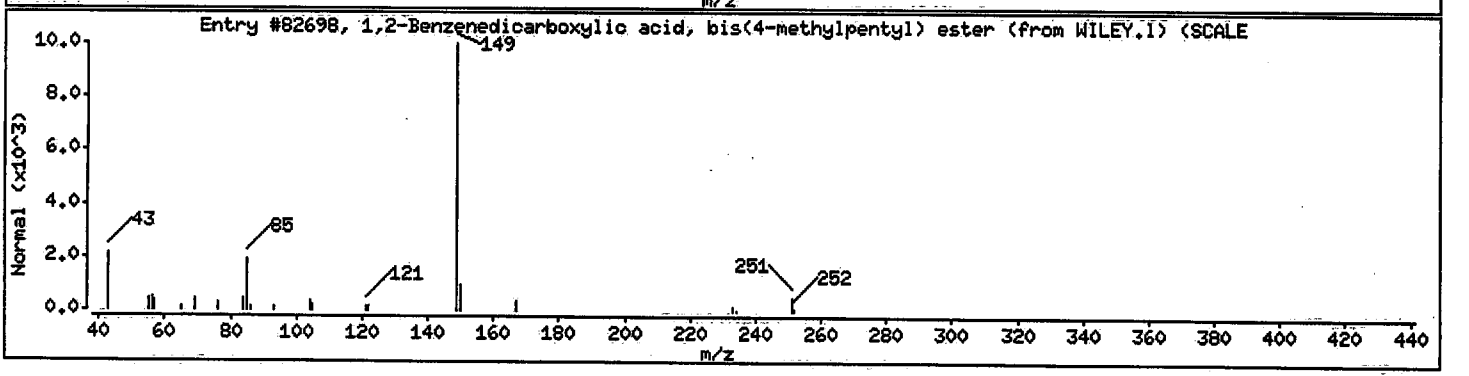
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra	58325-09-0	WILEY.l	43026	72	C14H18FN	219
1,2-Benzenedicarboxylic acid, bis(2-ethy	117-81-7	WILEY.l	129367	35	C24H3804	390
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	WILEY.l	82698	35	C20H3004	334









893L

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

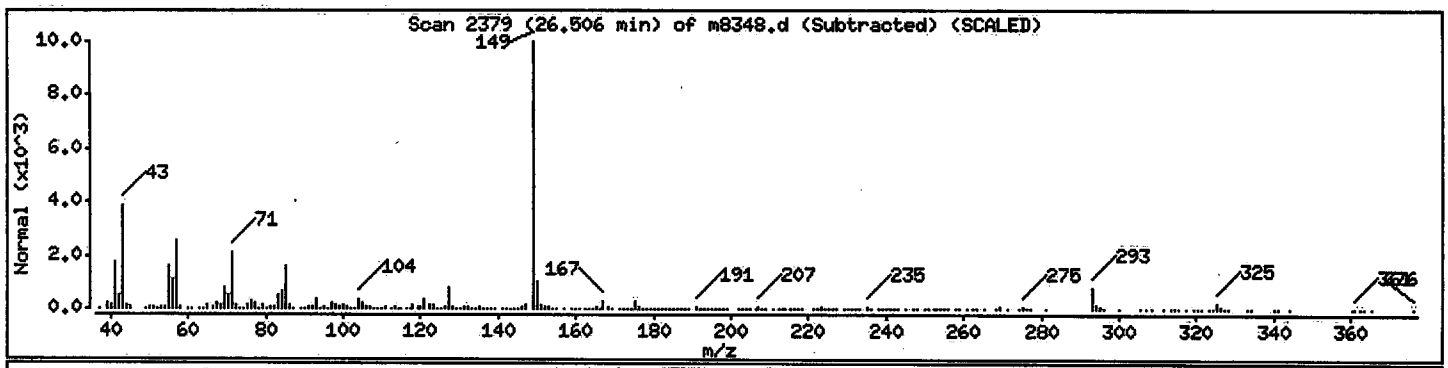
Volume Injected (uL): 2.0

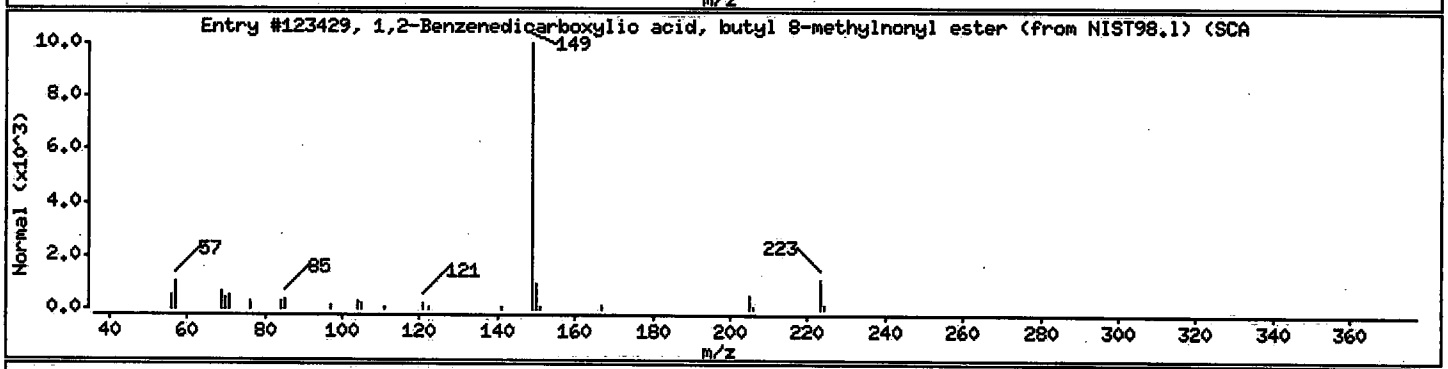
Operator: dce

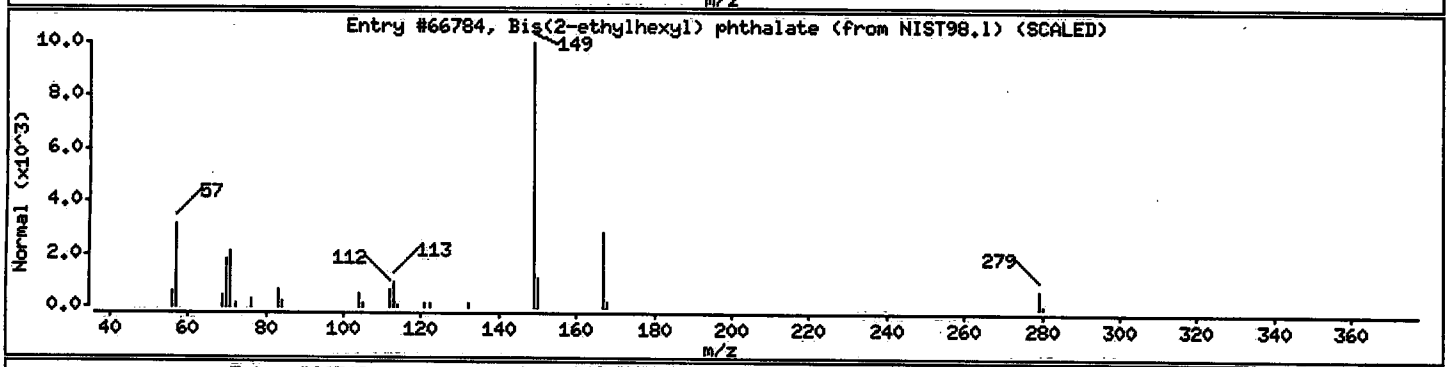
Column phase: ZB-5

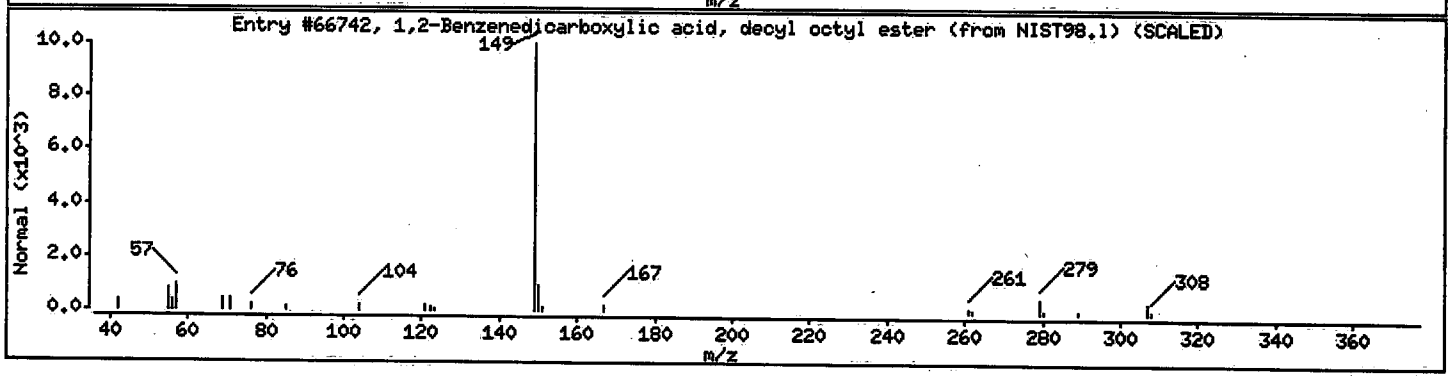
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, butyl 8-me	89-18-9	NIST98.1	123429	59	C22H3404	362
Bis(2-ethylhexyl) phthalate	117-81-7	NIST98.1	66784	64	C24H3804	390
1,2-Benzenedicarboxylic acid, decyl octy	119-07-3	NIST98.1	66742	59	C26H4204	418









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

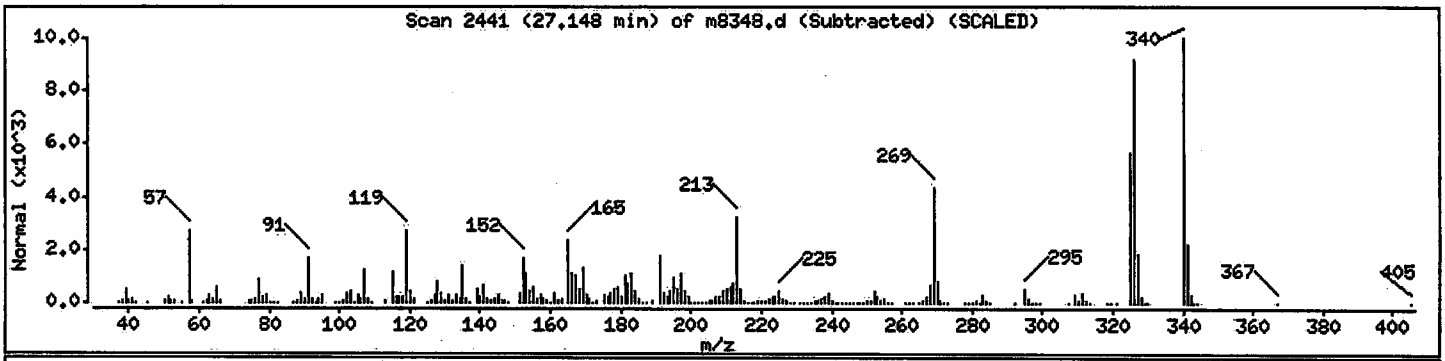
Volume Injected (uL): 2.0

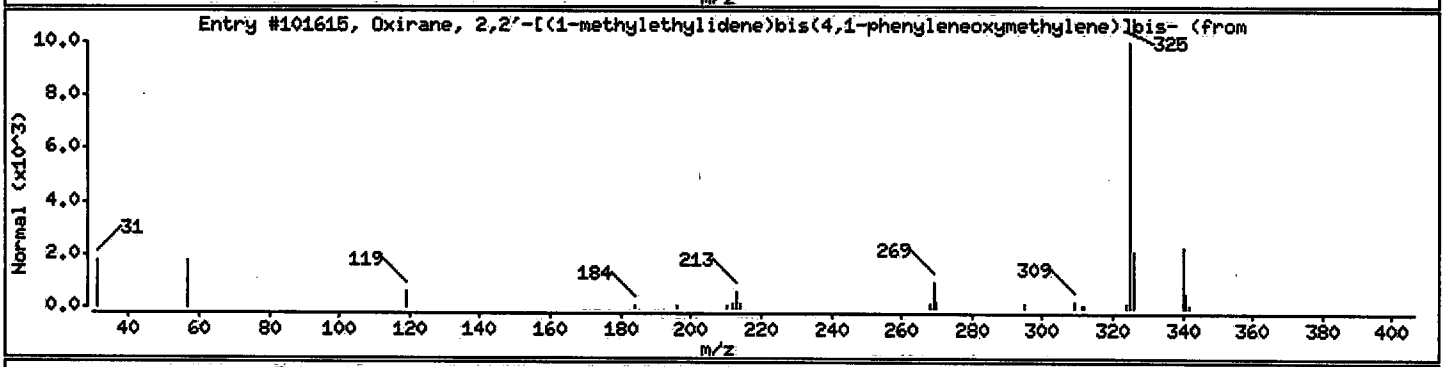
Operator: dce

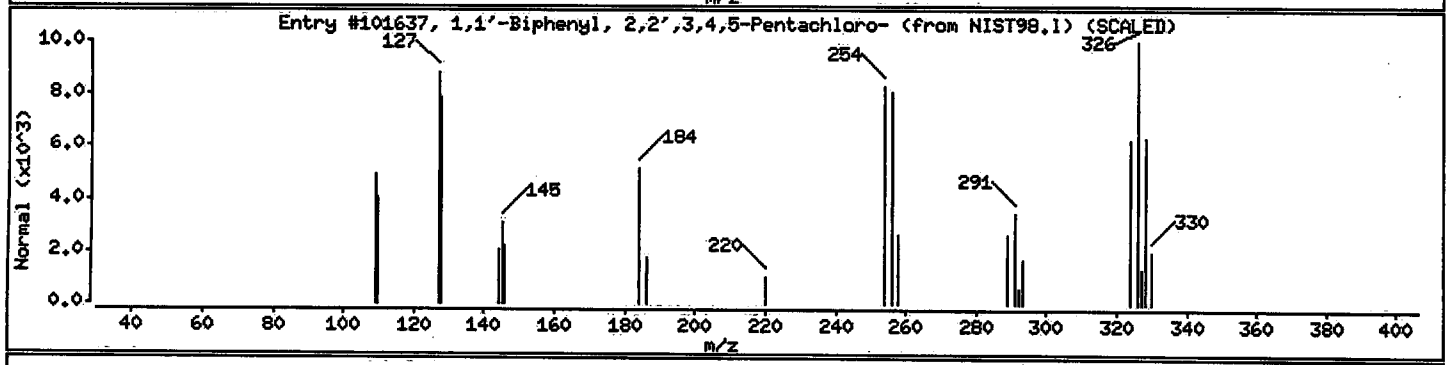
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, 2,2'-[(1-methylethylidene)bis(4	1675-54-3	NIST98.1	101615	93	C21H24O4	340
1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-	55312-69-1	NIST98.1	101637	59	C12H5Cl5	324







Data File: /var/chem/molly.i/0307174mlr.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

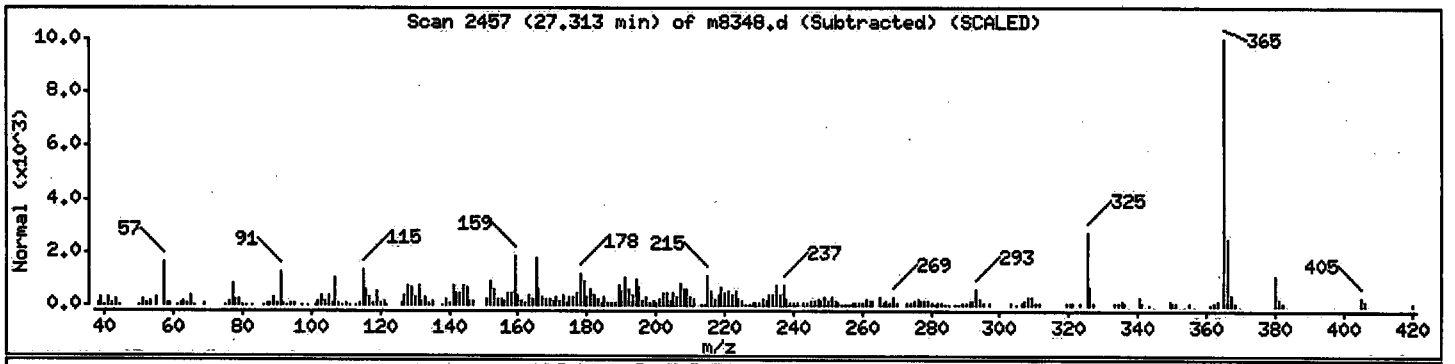
Volume Injected (uL): 2.0

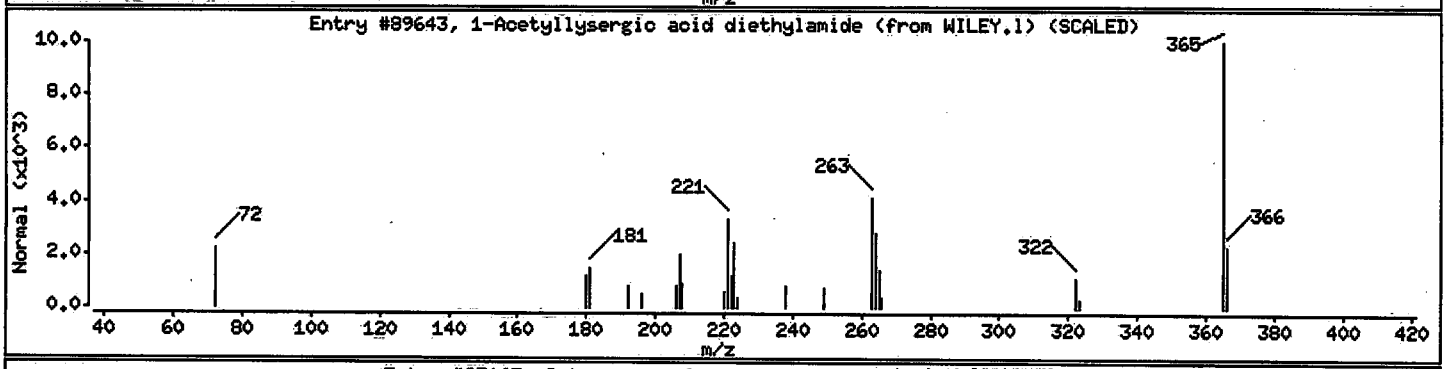
Operator: dce

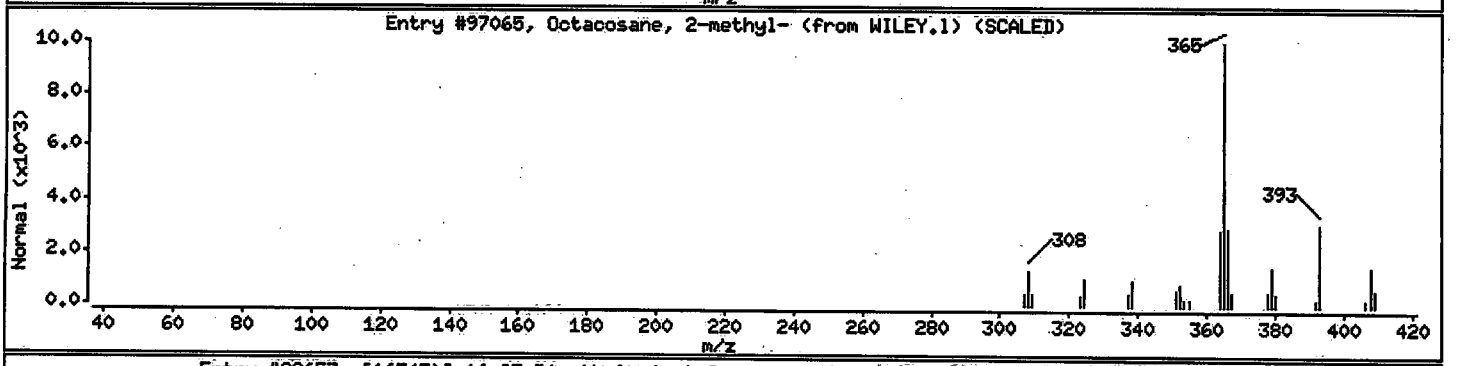
Column phase: ZB-5

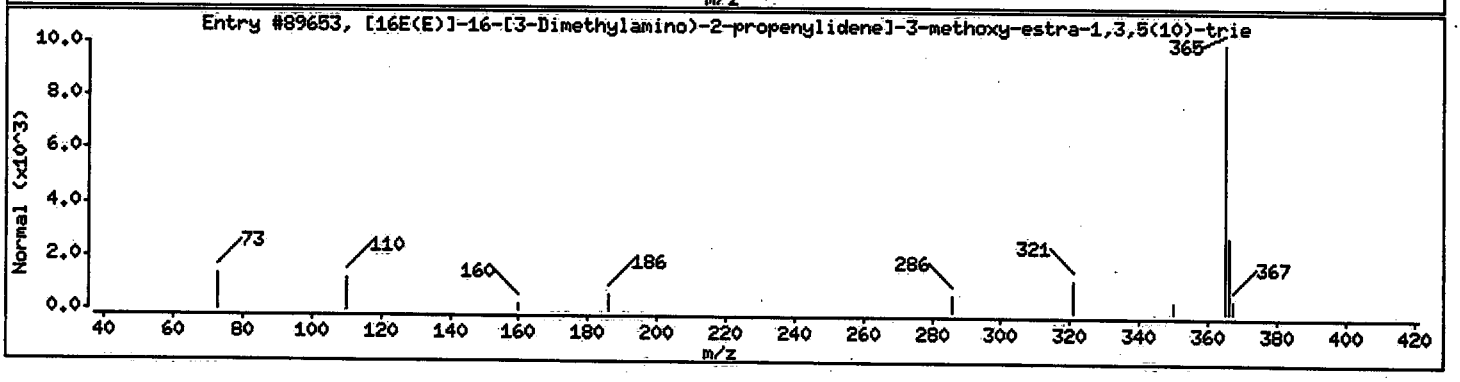
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Acetyllysergic acid diethylamide	3270-02-8	WILEY.l	89643	38	C22H27N3O2	365
Octacosane, 2-methyl-	1560-98-1	WILEY.l	97065	36	C29H60	408
[16E(E)]-16-[3-Dimethylamino)-2-propenyl	75834-05-8	WILEY.l	89653	33	C24H31NO2	365









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

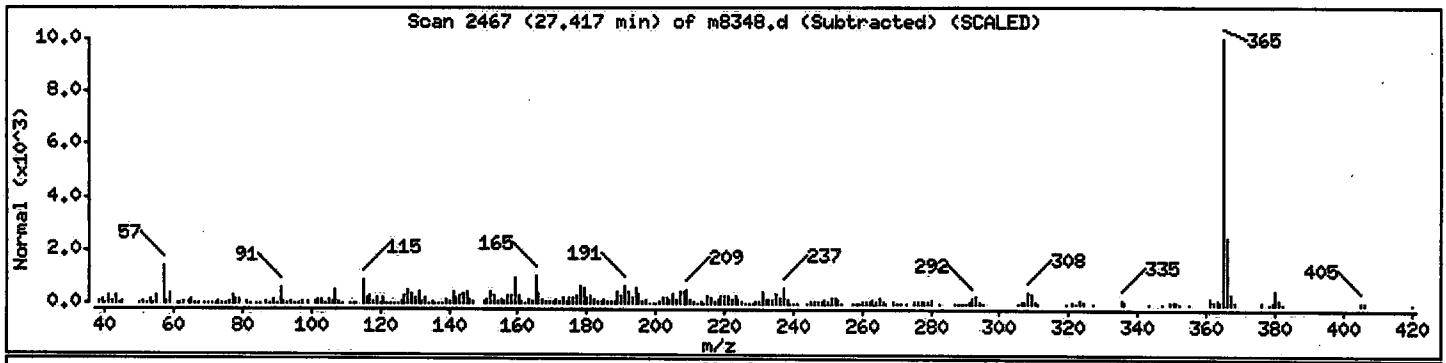
Volume Injected (uL): 2.0

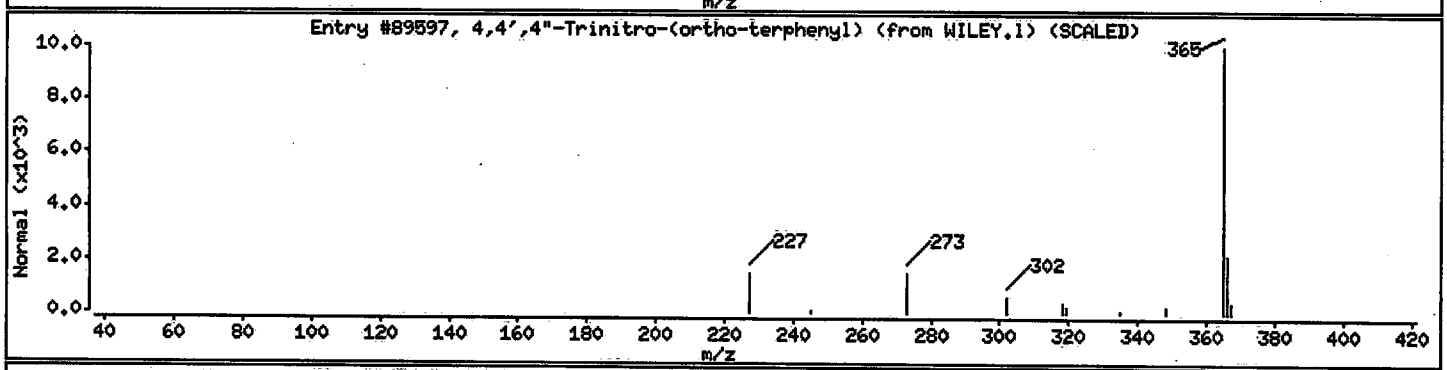
Operator: dce

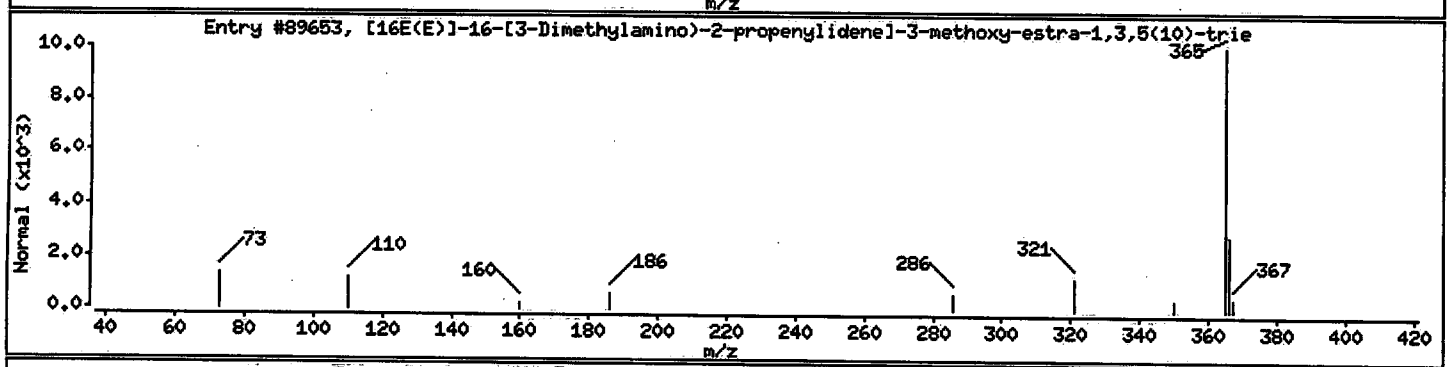
Column phase: ZB-5

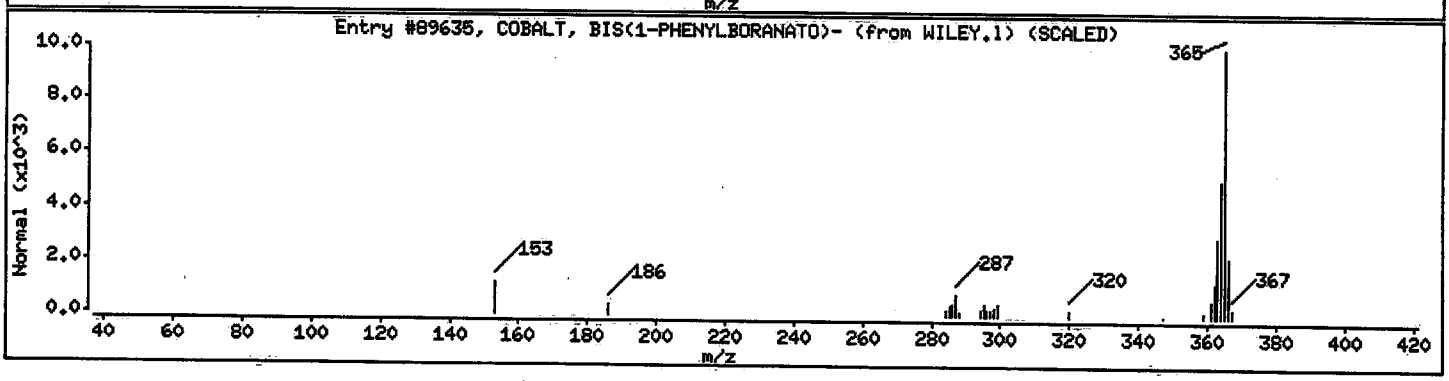
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4,4',4"-Trinitro-(ortho-terphenyl)	60366-46-3	WILEY.1	89597	39	C18H11N3O6	365
[16E(E)]-16-[3-Dimethylamino)-2-propenyl	76834-05-8	WILEY.1	89653	38	C24H31NO2	365
COBALT, BIS(1-PHENYLBORANATO)-	0-00-0	WILEY.1	89635	38	C22H20B2Co	365









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

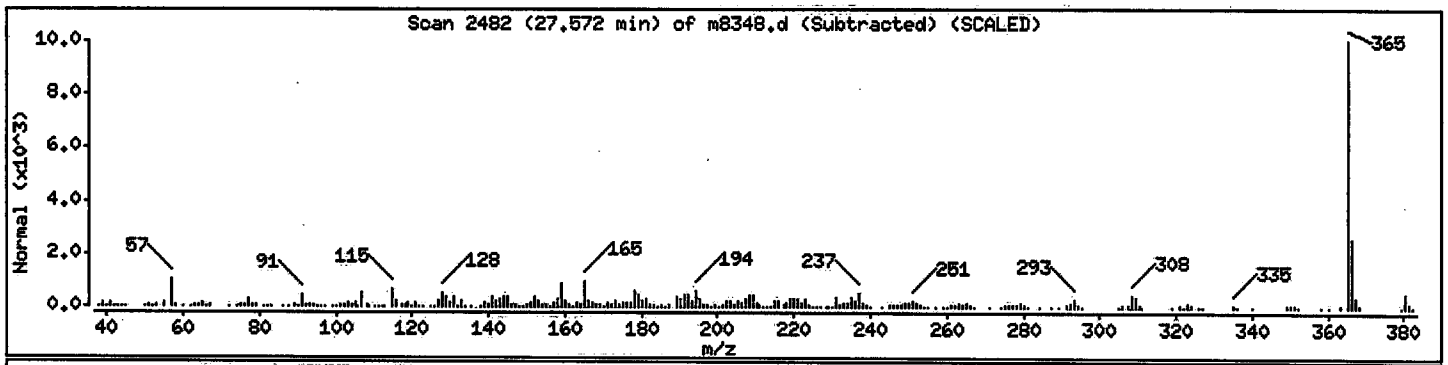
Volume Injected (uL): 2.0

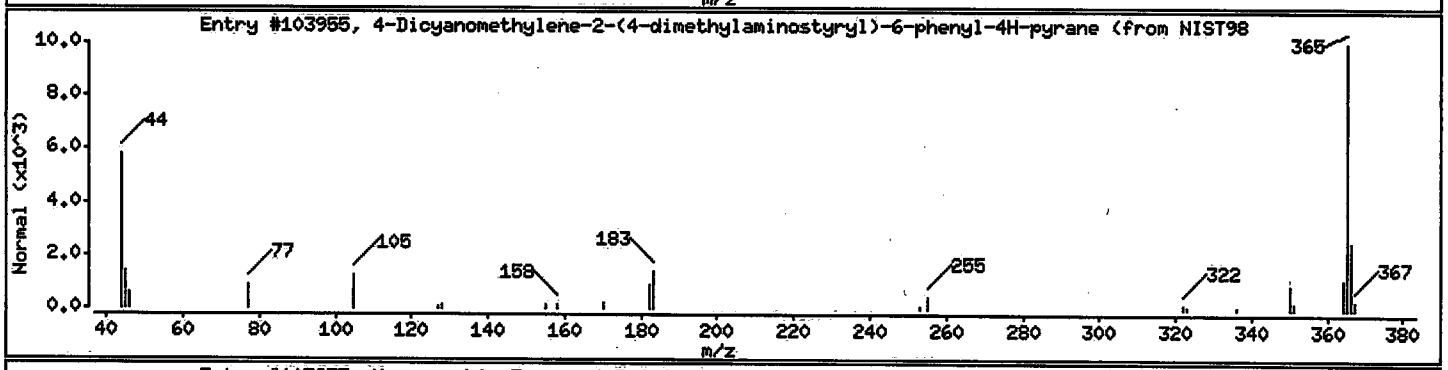
Operator: dce

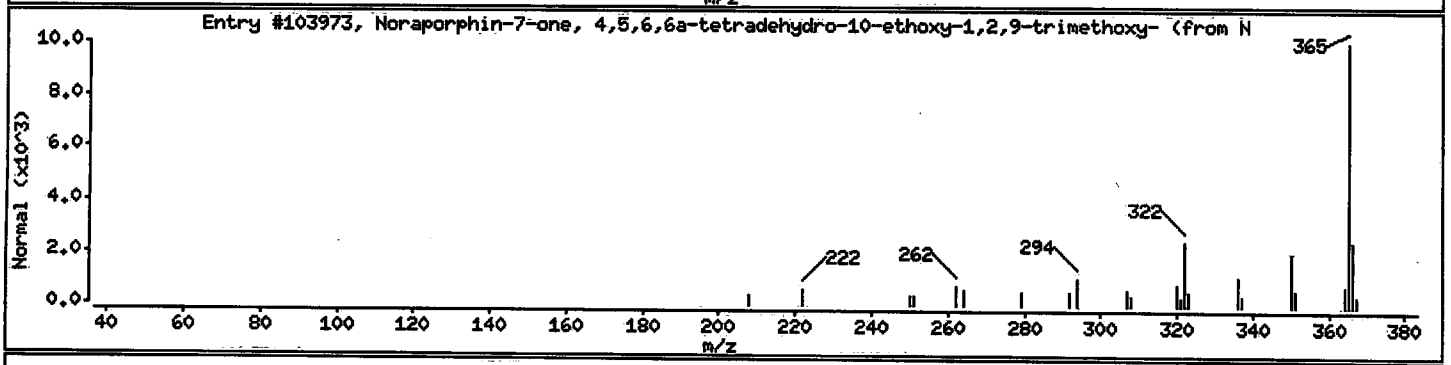
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4-Dicyanomethylene-2-(4-dimethylaminosty	70503-39-8	NIST98.1	103955	64	C24H19N3O	365
Noraporphin-7-one, 4,5,6,6a-tetradehydro	15358-01-7	NIST98.1	103973	50	C21H19NO5	365







Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

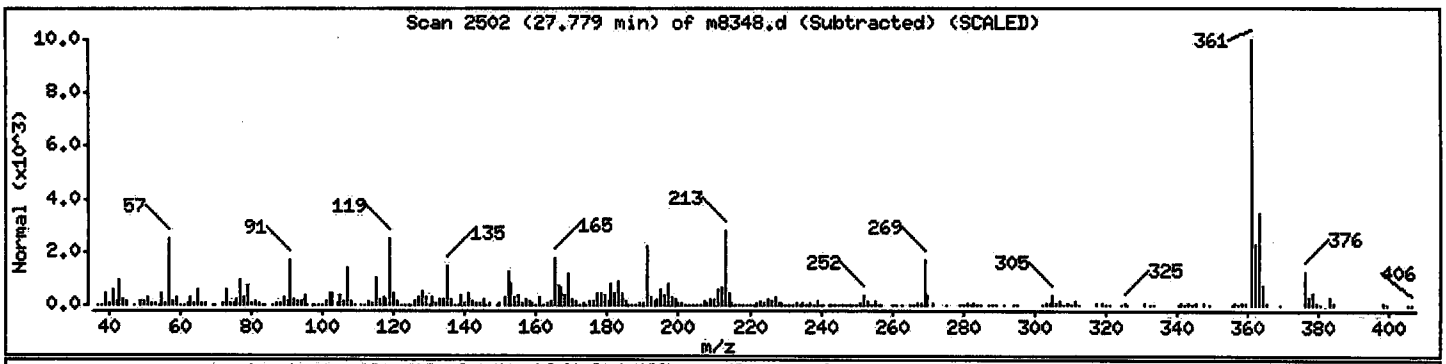
Volume Injected (uL): 2.0

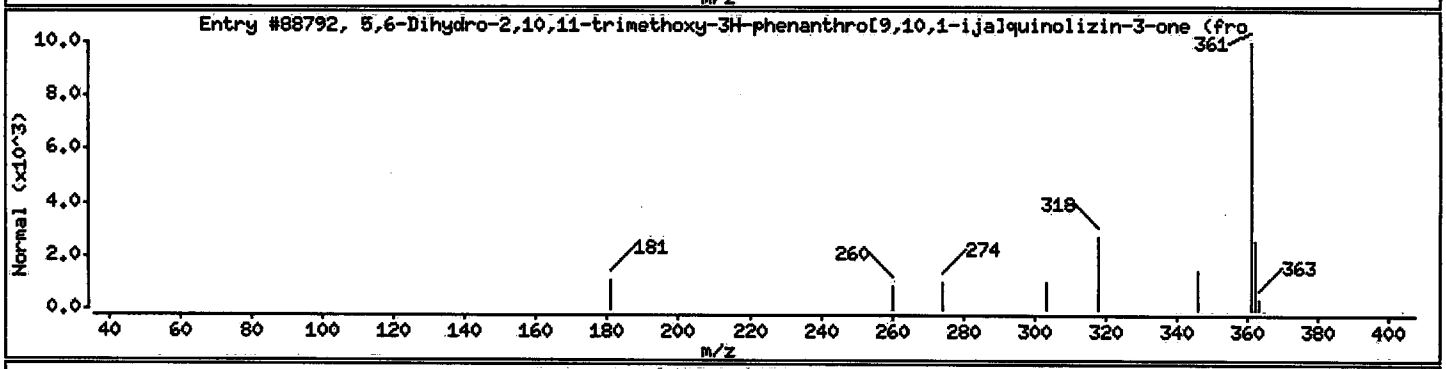
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5,6-Dihydro-2,10,11-trimethoxy-3H-phenan	64938-97-2	WILEY.l	88792	37	C22H19NO4	361





Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

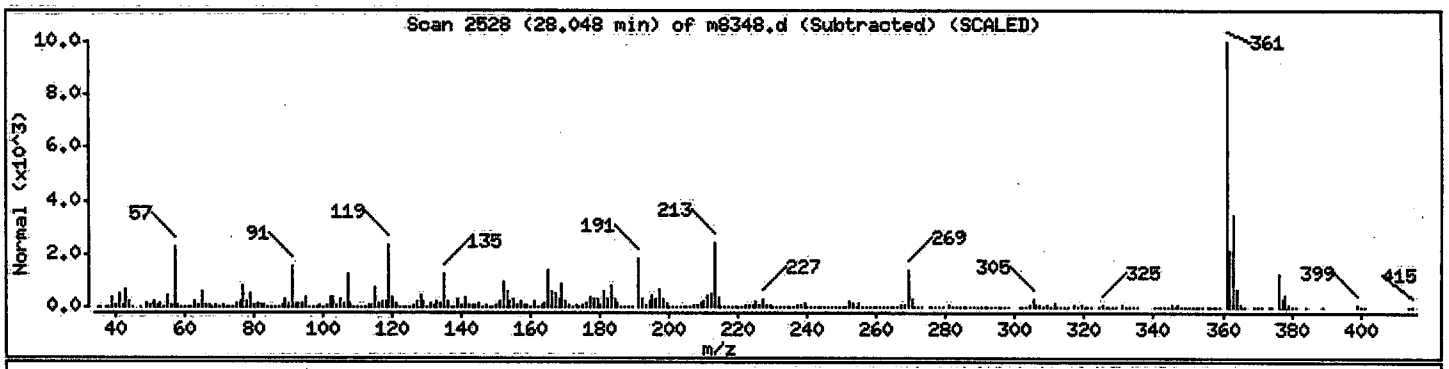
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

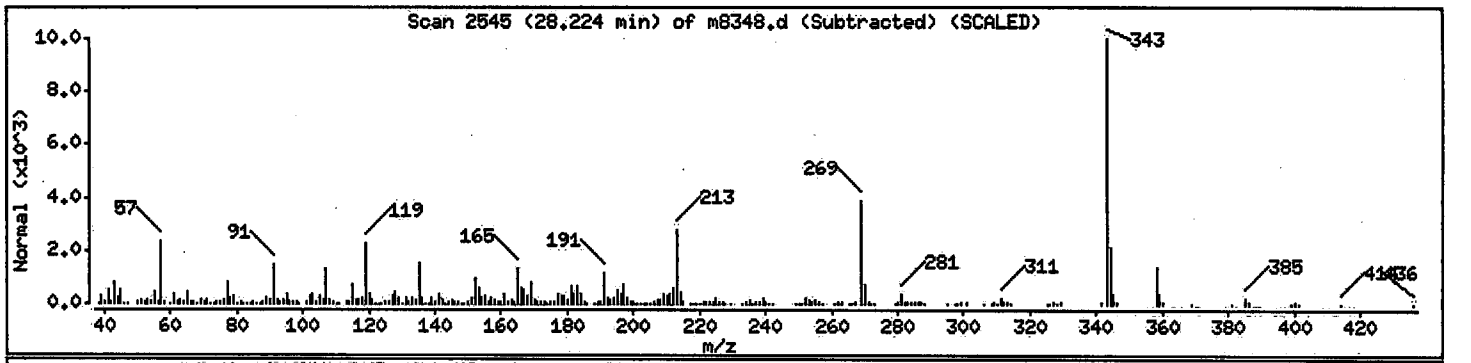
Volume Injected (uL): 2.0

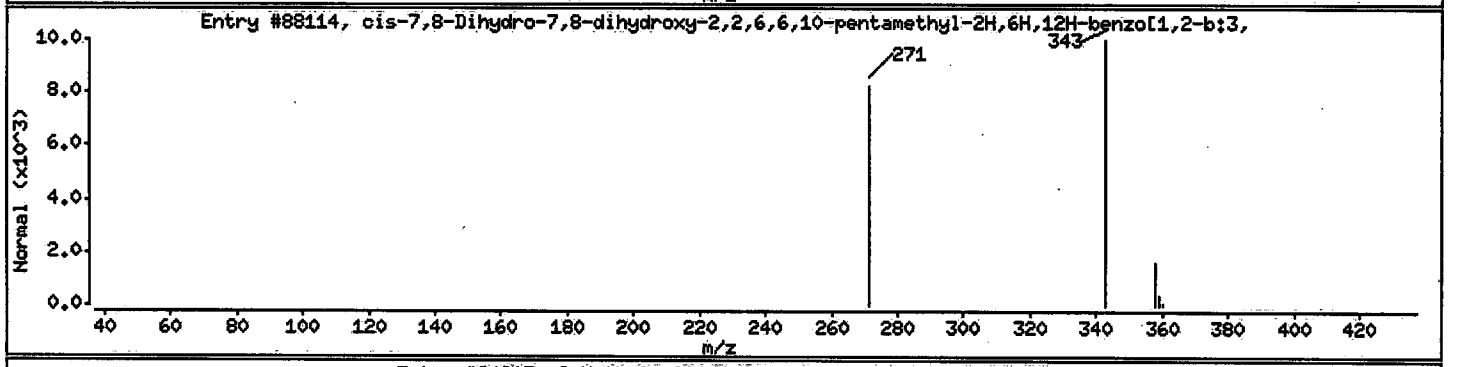
Operator: dce

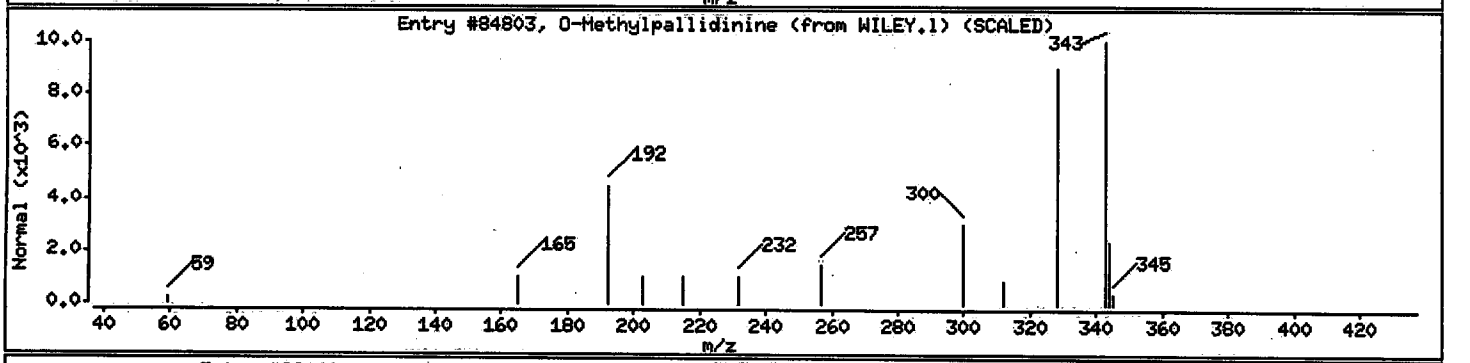
Column phase: ZB-5

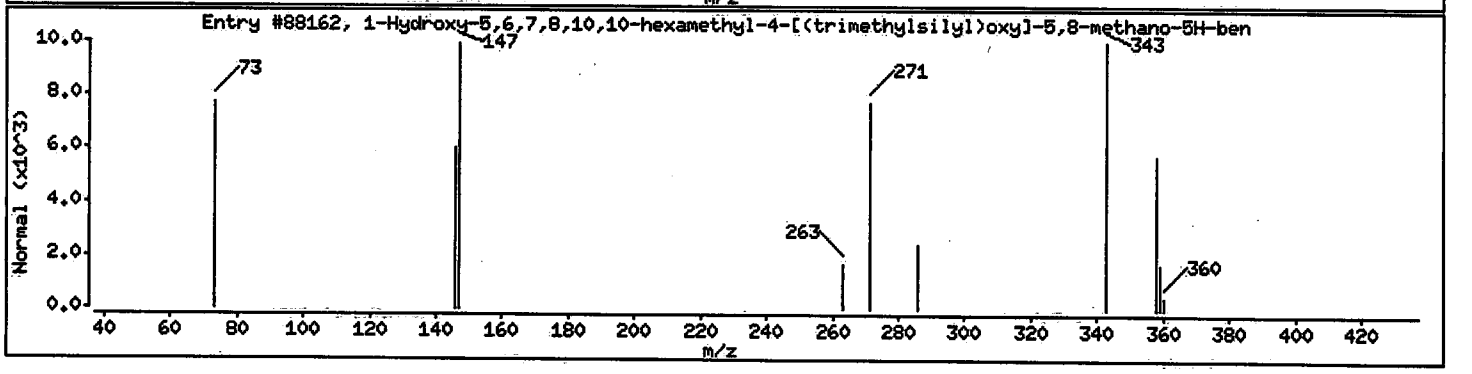
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10	78147-89-4	WILEY.1	88114	46	C20H22O6	358
O-Methylpallidinine	77485-12-2	WILEY.1	84803	38	C20H25NO4	343
1-Hydroxy-5,6,7,8,10,10-hexamethyl-4-[(t	72049-44-6	WILEY.1	88162	25	C21H30O3Si	358









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

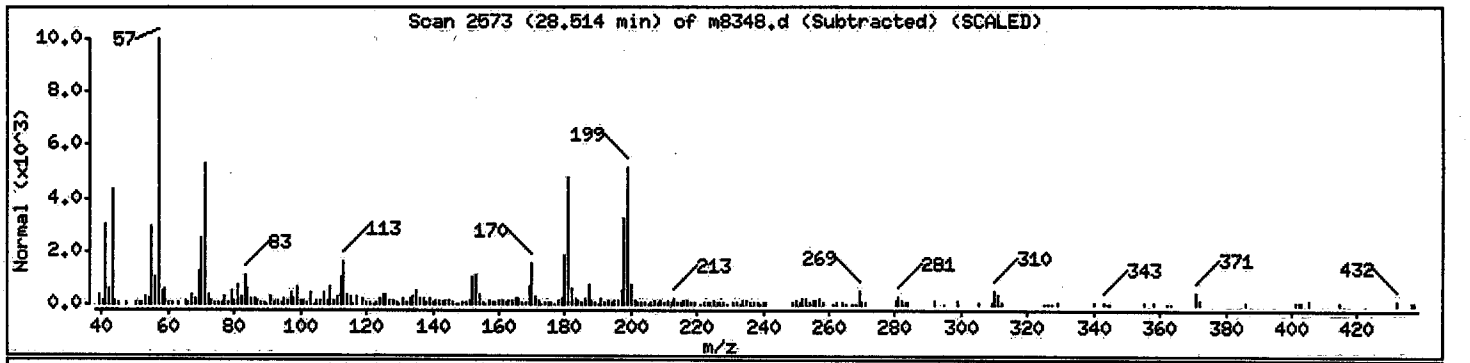
Volume Injected (uL): 2.0

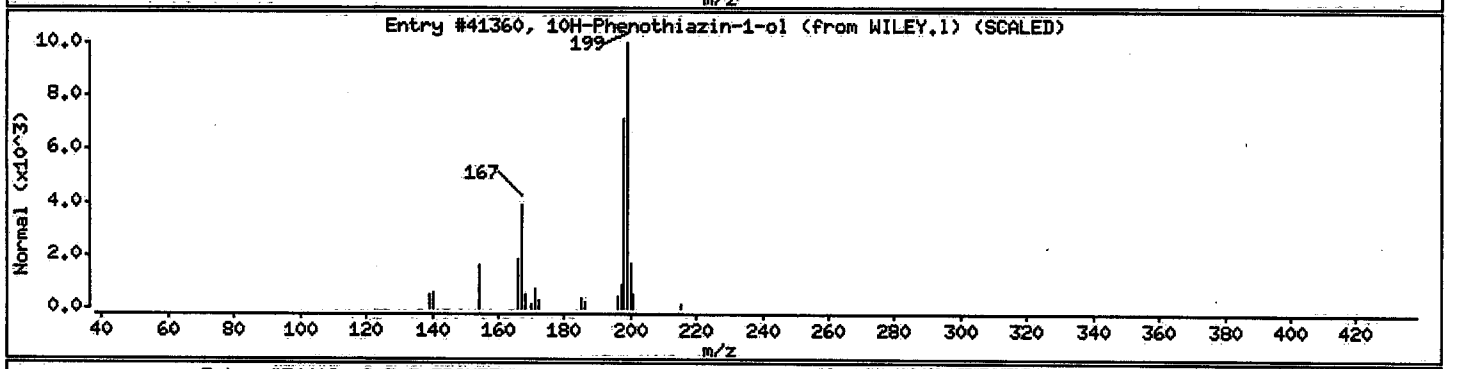
Operator: dce

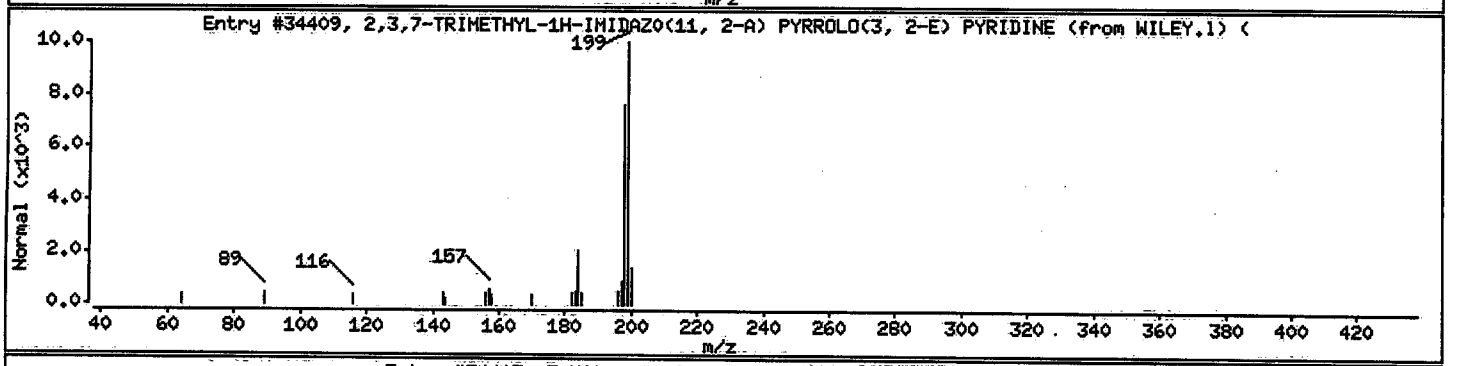
Column phase: ZB-5

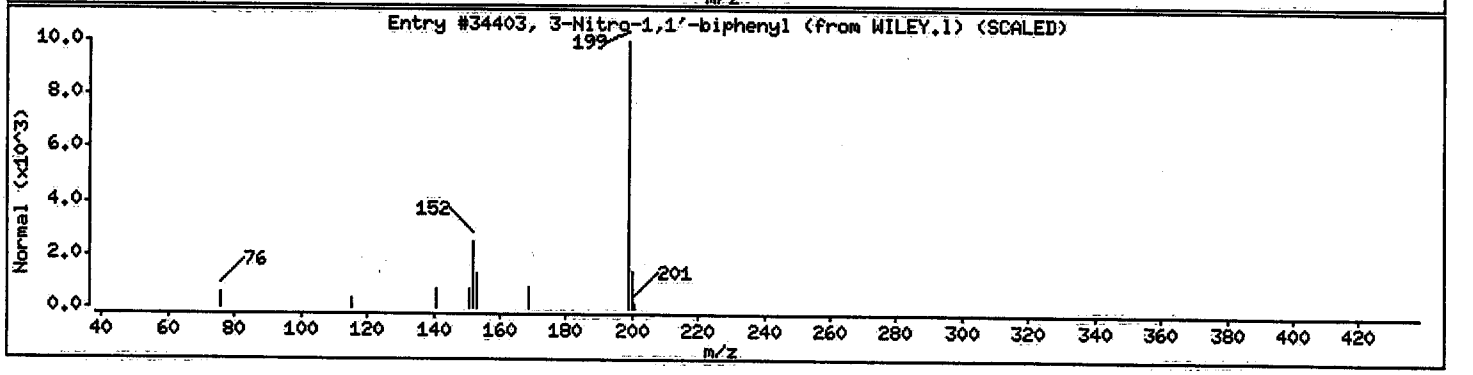
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
10H-Phenothiazin-1-ol	7445-99-0	WILEY.l	41360	12	C12H9NOS	215
2,3,7-TRIMETHYL-1H-IMIDAZO(11, 2-A) PYRR	63282-66-6	WILEY.l	34409	12	C12H13N3	199
3-Nitro-1,1'-biphenyl	0-00-0	WILEY.l	34403	10	C12H9NO2	199









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

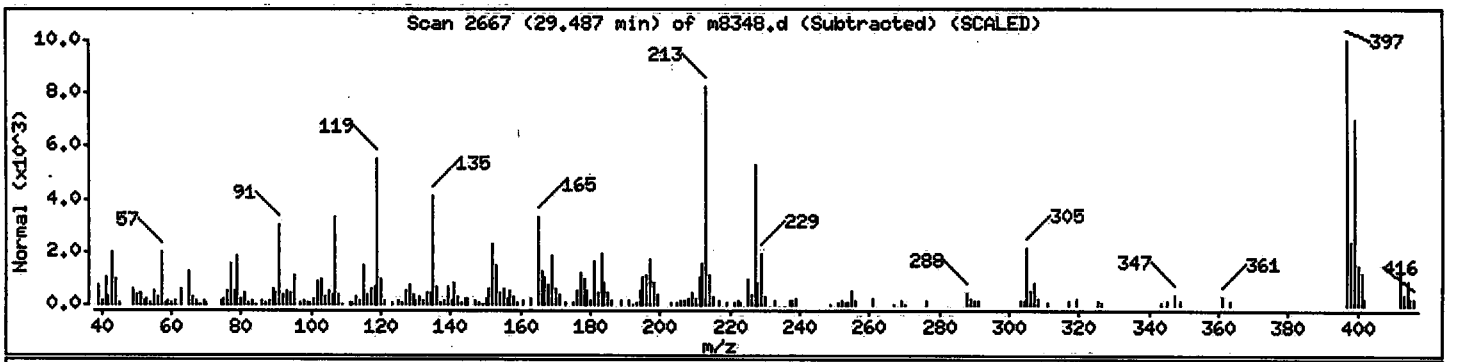
Volume Injected (uL): 2.0

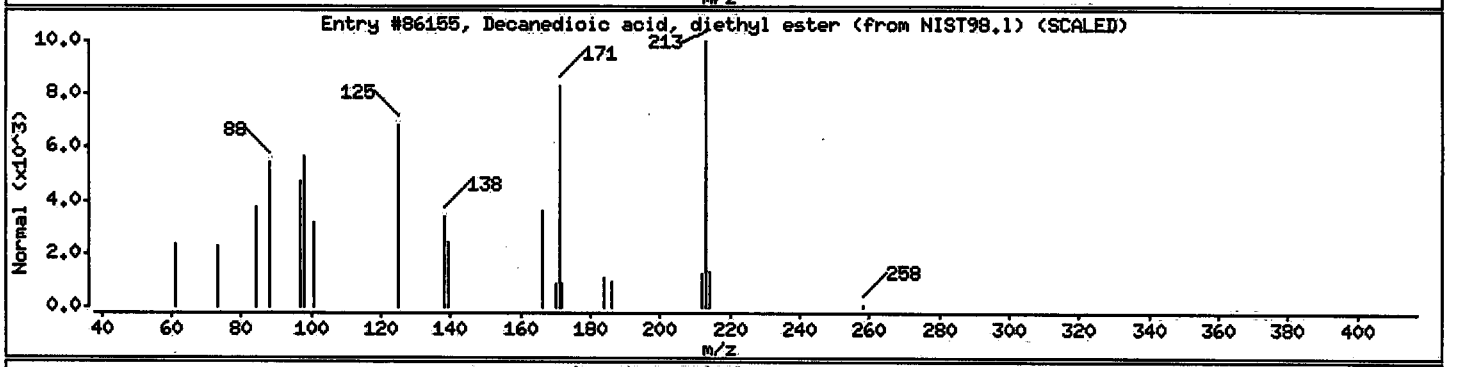
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decanedioic acid, diethyl ester	110-40-7	NIST98.1	86155	59	C14H2604	258





Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8348.d
Lab Smp Id: 0307090-06A
Inj Date : 17-JUL-2003 16:02
Operator : dce Inst ID: molly.i
Smp Info : 0307090-06A
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 21-Jul-2003 06:24 kkuhrt Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.98000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.563	829903	40.000
* 47 Acenaphthene-d10	16.622	2038549	40.000
* 65 Phenanthrene-d10	19.613	61880811	40.000
* 77 Chrysene-d12	24.912	96141484	40.000
* 84 Perylene-d12	27.251	11618876	40.000

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.636	76793414	3701.31928	116000	56	NIST98.1	109756	11
Butylated Hydroxytoluene					CAS #: 128-37-0		
16.912	1.069e+08	2097.67540	65600	97	NIST98.1	126409	47
Eicosane					CAS #: 112-95-8		
21.248	12429791	8.03466596	251	90	NIST98.1	112345	65
Oxirane, [(dodecyloxy)methyl]-					CAS #: 2461-18-9		
21.321	46971740	30.3627174	950	52	NIST98.1	16338	65
ETHENYL-CYCLOHEXANE					CAS #: 0-00-0		
22.304	18569895	7.72606967	242	47	WILEY.1	3204	77
5-Ethyl-1-nonene					CAS #: 19780-74-6		
23.029	19093412	7.94388073	248	50	NIST98.1	23898	77
2-Butanone, 3,3-dimethyl-					CAS #: 75-97-8		
23.712	35325805	14.6974243	460	43	WILEY.1	115465	77
5H-Benz[g]indolo[2,3-b]quinoxaline					CAS #: 249-06-9		
24.188	9689959	4.03154138	126	27	WILEY.1	62746	77
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime					CAS #: 76798-50-0		
25.802	1.518e+08	63.1633029	1980	78	WILEY.1	84056	77
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime					CAS #: 76798-50-0		
25.833	41676989	17.3398568	542	83	WILEY.1	84056	77
Phenol, 4,4'-methylenebis[2-(1,1-dimethy					CAS #: 96-65-1		
25.927	59657806	24.8208383	777	55	NIST98.1	101614	77
9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra					CAS #: 58325-09-0		
26.372	17513707	60.2939763	1890	72	WILEY.1	43026	84
1,2-Benzenedicarboxylic acid, butyl 8-me					CAS #: 89-18-9		
26.506	18505755	63.7092745	1990	59	NIST98.1	123429	84(L)
Oxirane, 2,2'-[(1-methylethylidene)bis(4					CAS #: 1675-54-3		
27.148	2.832e+09	9748.62162	305000	93	NIST98.1	101615	84
1-Acetyllysergic acid diethylamide					CAS #: 3270-02-8		
27.313	9935505	34.2047005	1070	38	WILEY.1	89643	84

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
4,4',4"-Trinitro-(ortho-terphenyl)					CAS #: 60366-46-3		
27.417	14845615	51.1086072	1600	39	WILEY.1	89597	84
4-Dicyanomethylene-2-(4-dimethylaminosty					CAS #: 70503-39-8		
27.572	11627373	40.0292497	1250	64	NIST98.1	103955	84
5,6-Dihydro-2,10,11-trimethoxy-3H-phenan					CAS #: 64938-97-2		
27.779	39736850	136.801008	4280	37	WILEY.1	88792	84
Unknown					CAS #:		
28.048	1.170e+08	402.959402	12600	0		0	84
cis-7,8-Dihydro-7,8-dihydroxy-2,2,6,6,10					CAS #: 78147-89-4		
28.224	25081927	86.3488884	2700	45	WILEY.1	88114	84
10H-Phenothiazin-1-ol					CAS #: 7445-99-0		
28.514	18855818	64.9144279	2030	12	WILEY.1	41360	84
Decanedioic acid, diethyl ester					CAS #: 110-40-7		
29.487	9939238	34.2175536	1070	59	NIST98.1	86155	84

QC Flag Legend

L - Operator selected an alternate library search match.

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

USE ORIGINAL ANALYSIS

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Client: Weston Solutions, Inc.

Lab Order: 0307090

Project: START RFP 3481

Client Sample ID: BBW-ML-02

Alt. Client ID:

Collection Date: 7/9/2003 1:45:00 PM **% Moist:**

Lab ID: 0307090-06A **Sample Type:** RA **Matrix:** Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1'-Biphenyl	82.0	J	31.7	620	µg/Kg	1	7/18/2003 7:46:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	ND		44.5	620	µg/Kg	1			
1,2-Dichlorobenzene	ND		52.2	620	µg/Kg	1			
1,3-Dichlorobenzene	ND		75.5	620	µg/Kg	1			
1,4-Dichlorobenzene	ND		69.6	620	µg/Kg	1			
2,2'-Oxybis(1-chloropropane)	ND		46.7	620	µg/Kg	1			
2,4,5-Trichlorophenol	ND		41.9	1560	µg/Kg	1			
2,4,6-Trichlorophenol	ND		53.9	620	µg/Kg	1			
2,4-Dichlorophenol	ND		43.2	620	µg/Kg	1			
2,4-Dimethylphenol	138	J	119	620	µg/Kg	1			
2,4-Dinitrophenol	ND		140	620	µg/Kg	1			
2,4-Dinitrotoluene	ND		77.7	620	µg/Kg	1			
2,6-Dinitrotoluene	ND		48.4	620	µg/Kg	1			
2-Chloronaphthalene	ND		40.2	620	µg/Kg	1			
2-Chlorophenol	ND		50.3	620	µg/Kg	1			
2-Methylnaphthalene	535	J	60.8	620	µg/Kg	1			
2-Methylphenol	145	J	65.7	620	µg/Kg	1			
2-Nitroaniline	ND		65	1560	µg/Kg	1			
2-Nitrophenol	ND		61.4	620	µg/Kg	1			
3,3'-Dichlorobenzidine	ND		563	1560	µg/Kg	1			
3-Nitroaniline	ND		227	1560	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		71.9	1560	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		50.7	620	µg/Kg	1			
4-Chloro-3-methylphenol	ND		69.1	620	µg/Kg	1			
4-Chloroaniline	ND		216	620	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		58.4	620	µg/Kg	1			
4-Methylphenol	341	J	58.2	620	µg/Kg	1			
4-Nitroaniline	ND		169	1560	µg/Kg	1			
4-Nitrophenol	300	J	85.8	1560	µg/Kg	1			
Acenaphthene	93.0	J	48.1	620	µg/Kg	1			
Acenaphthylene	ND		42.6	620	µg/Kg	1			
Acetophenone	132	J	44.3	620	µg/Kg	1			
Anthracene	ND		36.8	620	µg/Kg	1			
Atrazine	ND		77.7	620	µg/Kg	1			
Benz(a)anthracene	ND		58.6	620	µg/Kg	1			
Benzaldehyde	ND		310	563	µg/Kg	1			
Benzo(a)pyrene	ND		44.7	620	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

USE ORIGINAL ANALYSIS

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: 0307090-06A **Sample Type:** RA **Matrix:** Solid

Client Sample ID: BBW-ML-02
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM **% Moist:**
Test Code: 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		81.9	620	µg/Kg	1			
Benzo(g,h,i)perylene	ND		146	620	µg/Kg	1			
Benzo(k)fluoranthene	ND		105	620	µg/Kg	1			
Benzoic acid	545	J	145	1560	µg/Kg	1			
Benzyl alcohol	ND		70.6	620	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		46	620	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		47.9	620	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	1240		72.5	620	µg/Kg	1			
Butyl benzyl phthalate	182	J	81.7	620	µg/Kg	1			
Caprolactam	507	J	128	620	µg/Kg	1			
Carbazole	ND		64	620	µg/Kg	1			
Chrysene	ND		51.1	620	µg/Kg	1			
Di-n-butyl phthalate	4380		75.5	620	µg/Kg	1			
Di-n-octyl phthalate	792		76.8	620	µg/Kg	1			
Dibenz(a,h)anthracene	ND		173	620	µg/Kg	1			
Dibenzofuran	294	J	33.4	620	µg/Kg	1			
Diethyl phthalate	386	J	76.8	620	µg/Kg	1			
Dimethyl phthalate	94.1	J	37.4	620	µg/Kg	1			
Fluoranthene	1010		118	620	µg/Kg	1			
Fluorene	296	J	60.8	620	µg/Kg	1			
Hexachlorobenzene	ND		38.1	620	µg/Kg	1			
Hexachlorobutadiene	ND		55.9	620	µg/Kg	1			
Hexachlorocyclopentadiene	ND		89.9	1560	µg/Kg	1			
Hexachloroethane	ND		47.3	620	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		176	620	µg/Kg	1			
Isophorone	ND		38.1	620	µg/Kg	1			
N-Nitrosodi-n-propylamine	ND		56.7	620	µg/Kg	1			
N-Nitrosodimethylamine	ND		45.2	620	µg/Kg	1			
N-Nitrosodiphenylamine	123	J	30.2	620	µg/Kg	1			
Naphthalene	309	J	57.8	620	µg/Kg	1			
Nitrobenzene	ND		48.4	620	µg/Kg	1			
Pentachlorophenol	ND		168	1560	µg/Kg	1			
Phenanthrene	2130		52.6	620	µg/Kg	1			
Phenol	2300		43.9	620	µg/Kg	1			
Pyrene	634		113	620	µg/Kg	1			
Surr:2,4,6-Tribromophenol	95			32 - 130	%REC	1	7/18/2003 7:46:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	78			27 - 123	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit

B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

USE ORIGINAL ANALYSIS

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Client: Weston Solutions, Inc.

Client Sample ID: BBW-ML-02

Lab Order: 0307090

Alt. Client ID:

Project: START RFP 3481

Collection Date: 7/9/2003 1:45:00 PM **% Moist:**

Lab ID: 0307090-06A **Sample Type:** RA **Matrix:** Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	MDL	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	78			36 - 135	%REC	1			
Surr:Nitrobenzene-d5	95			25 - 122	%REC	1			
Surr:Phenol-d5	94			36 - 128	%REC	1			
Surr:Terphenyl-d14	104			51 - 116	%REC	1			

Definitions:

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B - Analyte found in Method blank
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J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

USE ORIGINAL ANALYSIS

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT:	Weston Solutions, Inc.	**Client Sample ID:**	**BBW-ML-02**
Lab Order:	0307090	**Alt. Client ID:**	
Project:	START RFP 3481	**Collection Date:**	7/9/2003 1:45:00 PM
Lab ID:	**0307090-06A**	**Sample Type:** RA	**Matrix:** SOLID	**% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Quality(%)	Date Analyzed	Run Batch ID	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C										
1_8270C_3550B_TCL_S										
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.56	49000	BNJ	µg/Kg	1	56	7/18/2003 7:46:00 PM	MOLLY_030718A	
128-37-0	Butylated Hydroxytoluene	16.85	48000	NJ	µg/Kg	1	91			
3101-60-8	Oxirane, ((4-(1,1-dimethylethyl)phenoxy)	21.22	540	NJ	µg/Kg	1	50			
2461-18-9	Oxirane, ((dodecyloxy)methyl)-	21.27	840	NJ	µg/Kg	1	68			
75-97-8	2-Butanone, 3,3-dimethyl-	23.66	11000	NJ	µg/Kg	1	47			
3166-54-9	Chloromethaqualone	25.15	12000	NJ	µg/Kg	1	50			
96-65-1	Phenol, 4,4'-methylenebis(2-(1,1-dimethy	25.87	56000	NJ	µg/Kg	1	55			
28553-12-0	1,2-Benzenedicarboxylic acid, diisononyl (26.102)	26.1	5300	NJ	µg/Kg	1	74			
58325-09-0	9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra	26.25	10000	NJ	µg/Kg	1	80			
28553-12-0	1,2-Benzenedicarboxylic acid, diisononyl (26.288)	26.29	6700	NJ	µg/Kg	1	78			
28553-12-0	1,2-Benzenedicarboxylic acid, diisononyl (26.35)	26.35	14000	NJ	µg/Kg	1	56			
146-50-9	1,2-Benzenedicarboxylic acid, bis(4-meth (26.402)	26.4	15000	NJ	µg/Kg	1	50			
28553-12-0	1,2-Benzenedicarboxylic acid, diisononyl (26.464)	26.46	18000	NJ	µg/Kg	1	83			
146-50-9	1,2-Benzenedicarboxylic acid, bis(4-meth (26.526)	26.53	12000	NJ	µg/Kg	1	58			
117-84-0	1,2-Benzenedicarboxylic acid,heptyl	26.58	7400	NJ	µg/Kg	1	58			
1675-54-3	Oxirane, 2,2'-((1-methylethylidene)bis(4	27.24	600000	NJ	µg/Kg	1	91			
1000164-61-6	Nickel(II), (bis(4-methylsalicylidene)ac	27.39	5700	NJ	µg/Kg	1	50			
60366-46-3	4,4',4"-Trinitro-(ortho-terphenyl)	27.59	5600	NJ	µg/Kg	1	50			
13294-23-0	BISTRIMETHYLSILYL MERCURY	28.06	27000	NJ	µg/Kg	1	17			
72947-70-7	BENTHAMIANIN TETRA-O-METHYL ETHER	28.18	6700	NJ	µg/Kg	1	25			
63282-66-6	2,3,7-TRIMETHYL-1H-IMIDAZ0(11, 2-A) PYRR	28.48	11000	NJ	µg/Kg	1	18			
56454-29-6	2,3,4,5-Tetrabromo-1-methylpyrrole	29.48	6300	NJ	µg/Kg	1	36			

Number TICs Found: 22

Definitions:

* - Recovery outside QC limits
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P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
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NC - Not Calculated for values < RL
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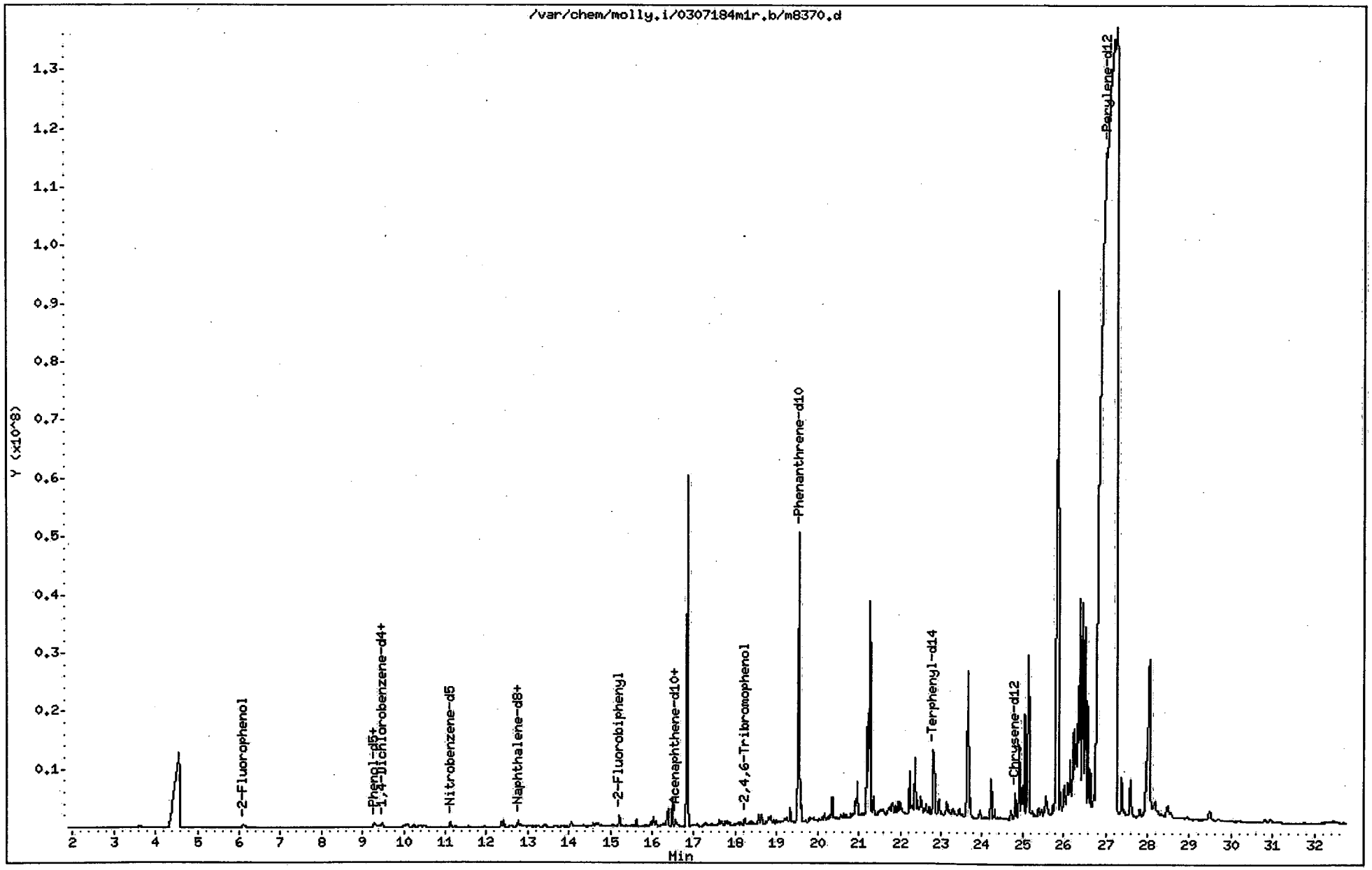
911

Data File: /var/chem/molly.i/0307184m1r.b/m8370.d
Date : 18-JUL-2003 19:46
Client ID:
Sample Info: 0307090-06A
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8370.d
Lab Smp Id: 0307090-06A
Inj Date : 18-JUL-2003 19:46
Operator : dce Inst ID: molly.i
Smp Info : 0307090-06A
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.98000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	6.095	5.995	(0.643)	404278	94.1427	2940
$ 6 Phenol-d5	99	9.293	9.121	(0.980)	695210	112.530	3520
7 Phenol	94	9.438	9.162	(0.996)	512625	73.5871	2300(M) DLC 7/21/03
* 11 1,4-Dichlorobenzene-d4	152	9.479	9.494	(1.000)	136356	40.0000	
15 2-Methylphenol	108	10.846	10.736	(1.144)	22661	4.62355	145(a)
17 Acetophenone	105	10.773	10.767	(1.136)	34963	4.23428	132(a)
18 4-Methylphenol	108	11.270	11.129	(1.189)	58246	10.8935	341
$ 21 Nitrobenzene-d5	82	11.125	11.129	(0.871)	619013	94.6357	2960
25 2,4-Dimethylphenol	107	12.388	12.319	(0.970)	26534	4.40779	138(a)
27 Benzoic acid	122	12.771	12.723	(1.000)	48892	17.4044	544(a)

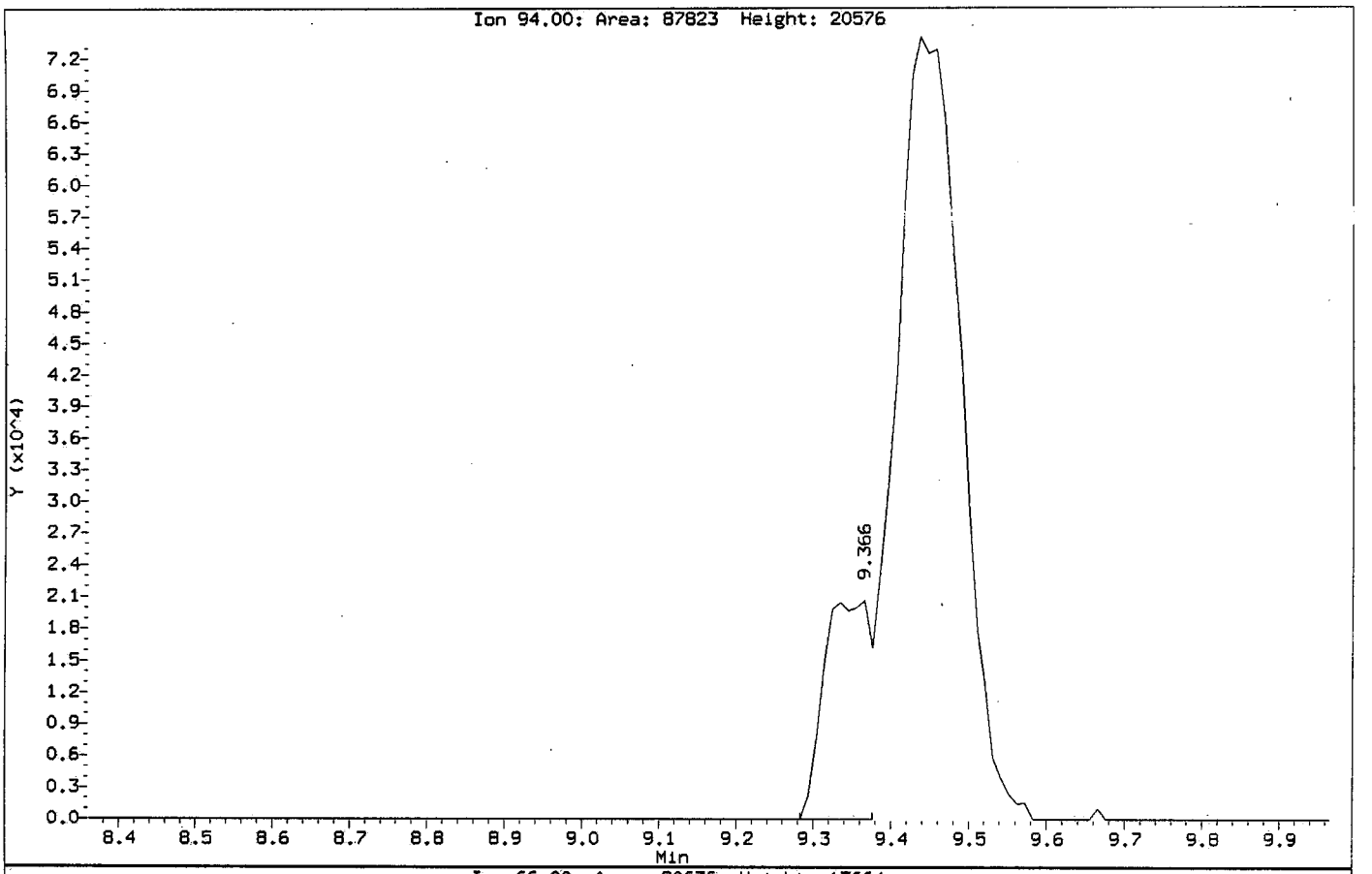
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 30 Naphthalene-d8	136	12.771	12.775	(1.000)	481009	40.0000	
31 Naphthalene	128	12.812	12.816	(1.003)	137915	9.86223	308(a)
34 Caprolactam	113	13.837	13.758	(1.083)	25541	16.1932	507
36 2-Methylnaphthalene	141	14.365	14.369	(1.125)	142098	17.1144	535
$ 40 2-Fluorobiphenyl	172	15.224	15.228	(0.919)	896080	77.6075	2430
42 Biphenyl	154	15.389	15.393	(0.929)	36197	2.62143	82.0(aQ)
44 Dimethyl phthalate	163	16.197	16.201	(0.978)	41795	3.00847	94.1(a)
* 47 Acenaphthene-d10	164	16.569	16.563	(1.000)	340964	40.0000	
49 Acenaphthene	153	16.631	16.635	(1.004)	32541	2.97233	93.0(aQ)
51 4-Nitrophenol	109	17.501	17.298	(1.056)	25245	9.59108	300(aQ)
52 Dibenzofuran	168	16.963	16.966	(1.024)	148690	9.40849	294(a)
54 Diethyl phthalate	149	17.646	17.650	(1.065)	183400	12.3328	386
55 Fluorene	166	17.666	17.670	(1.066)	121297	9.46412	296(a)
59 N-Nitrosodiphenylamine	169	17.987	17.981	(0.921)	57032	3.92420	123(aH)
$ 60 2,4,6-Tribromophenol	330	18.236	18.219	(1.101)	178272	114.345	3580
64 Pentachlorophenol	266	19.405	19.368	(0.993)	8824	3.72268	116(a) < MDL
* 65 Phenanthrene-d10	188	19.540	19.544	(1.000)	983064	40.0000	
66 Phenanthrene	178	19.591	19.585	(1.003)	1963400	68.0579	2130
69 Di-n-butyl phthalate	149	20.968	20.951	(1.073)	5194709	140.100	4380
70 Fluoranthene	202	22.013	21.997	(1.127)	1138144	32.3044	1010
72 Pyrene	202	22.448	22.431	(0.904)	1281526	20.2761	634
$ 73 Terphenyl-d14	244	22.852	22.835	(0.921)	4147082	104.275	3260
74 Butyl benzyl phthalate	149	23.959	23.942	(0.965)	185421	5.83117	182(a)
* 77 Chrysene-d12	240	24.818	24.812	(1.000)	2292204	40.0000	
79 Bis(2-ethylhexyl)phthalate	149	25.046	25.040	(1.009)	1902296	39.6971	1240
80 Di-n-octyl phthalate	149	25.998	25.940	(1.048)	2103495	25.3074	792
* 84 Perylene-d12	264	26.992	26.944	(1.000)	1103450	40.0000	

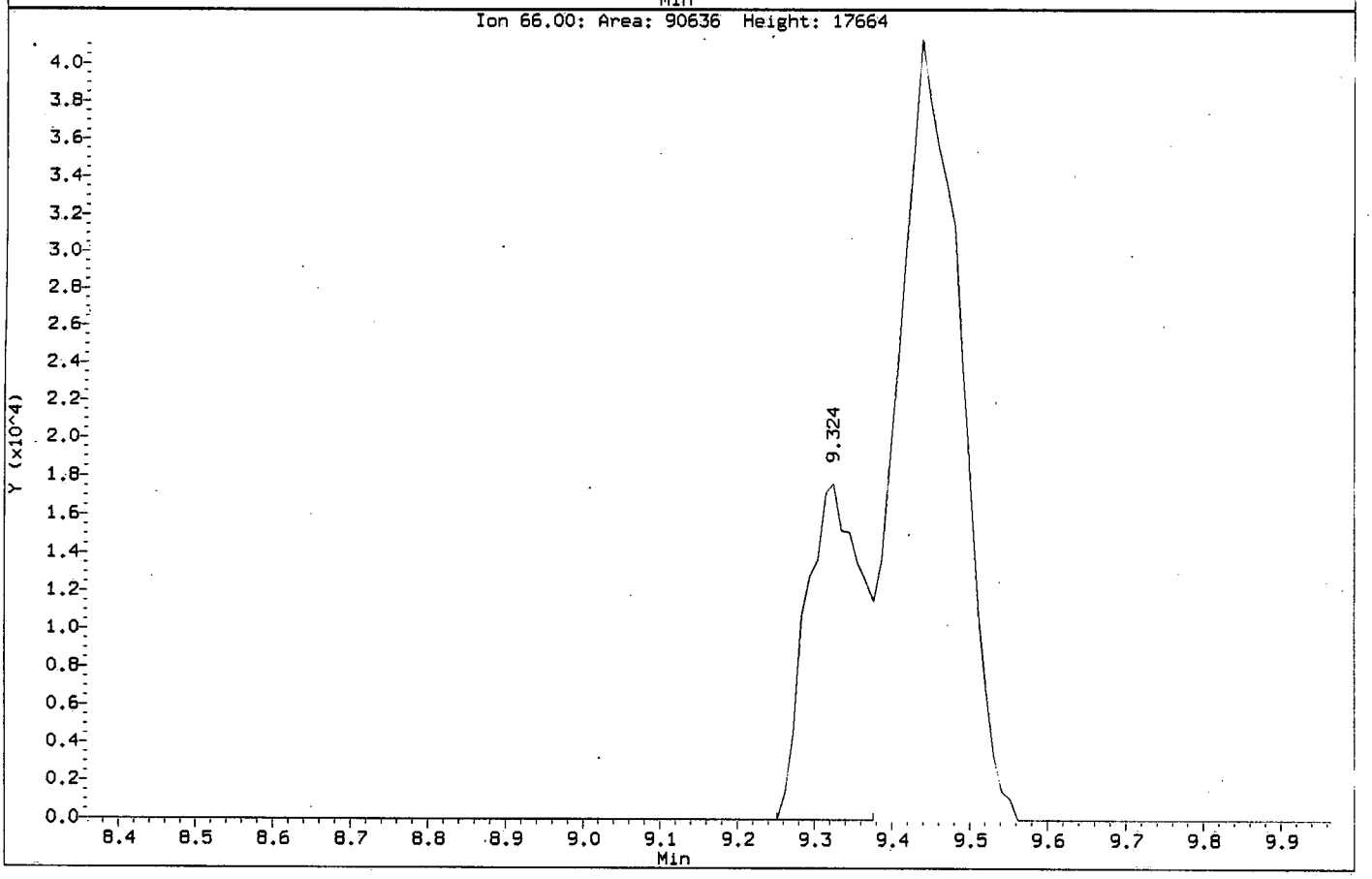
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8370.d
Injection Date: 18-JUL-2003 19:46
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

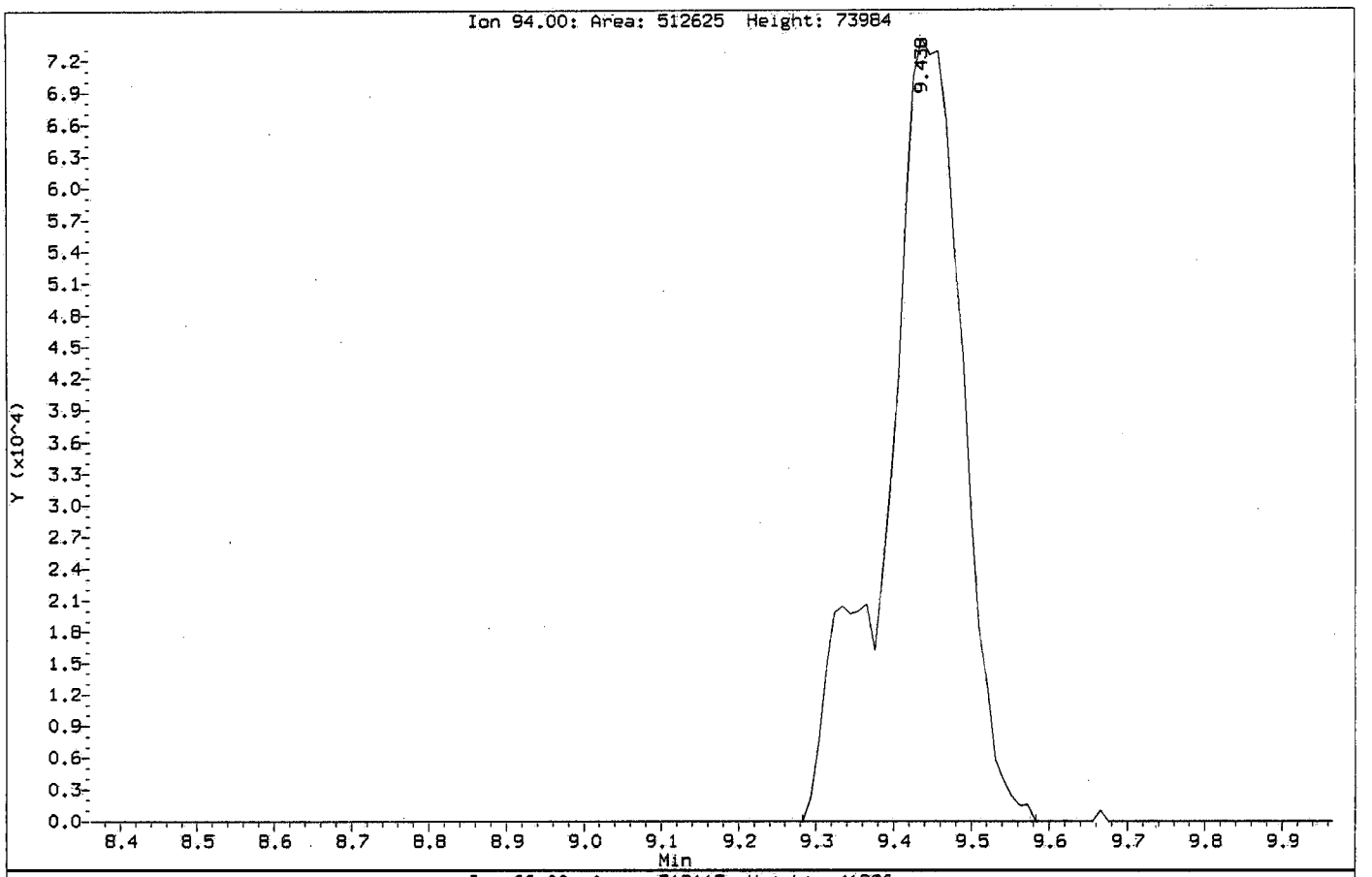


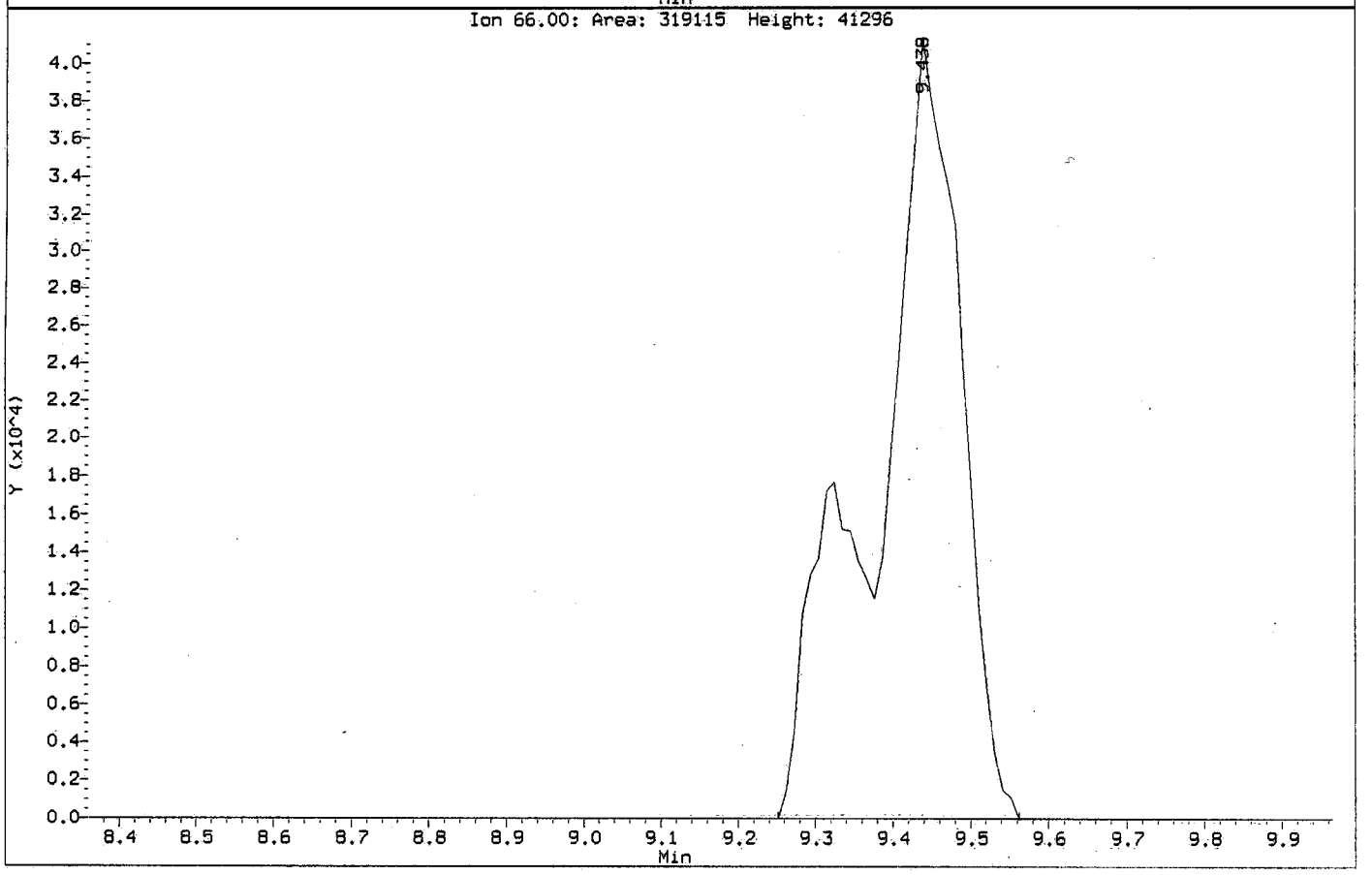


Paul C E 7/21/03
integrate entire area
Kathy Kubat 7/21/03

Data File: /var/chem/molly.i/0307184m1r.b/m8370.d
Injection Date: 18-JUL-2003 19:46
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2





Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

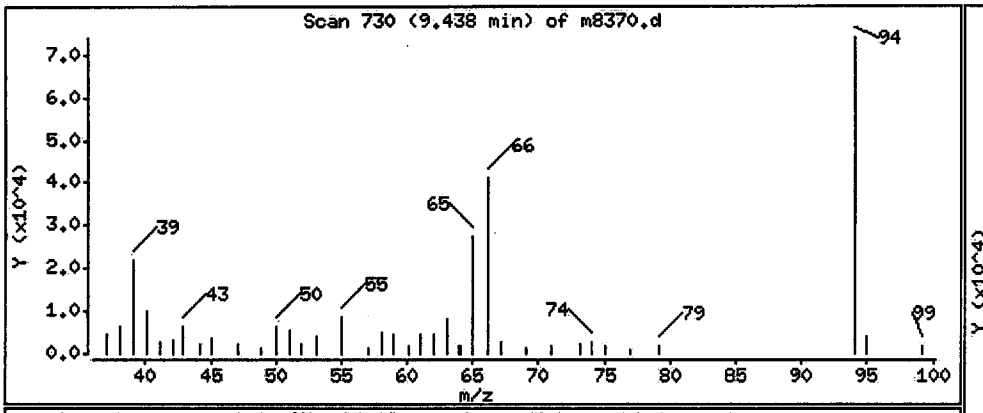
Operator: dce

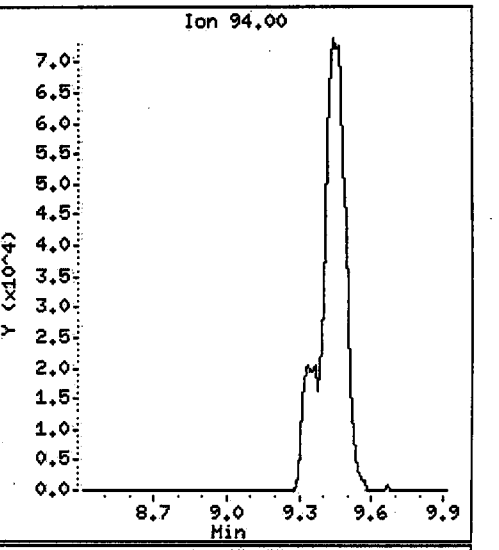
Column phase: ZB-5

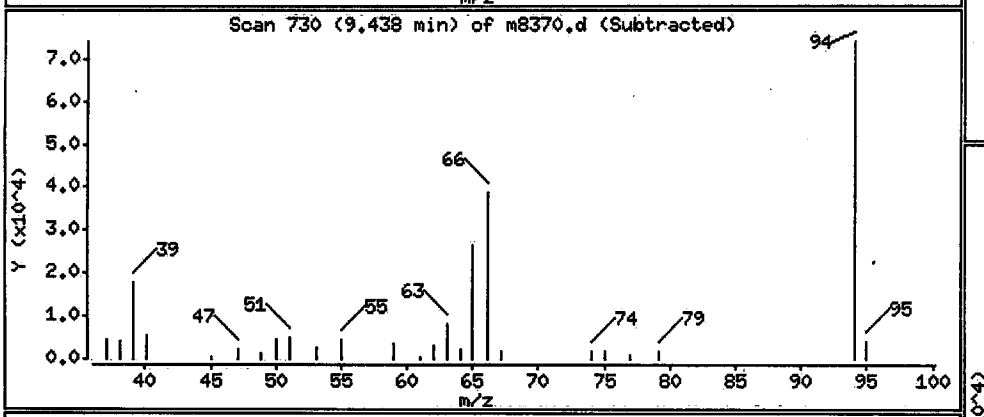
Column diameter: 0.25

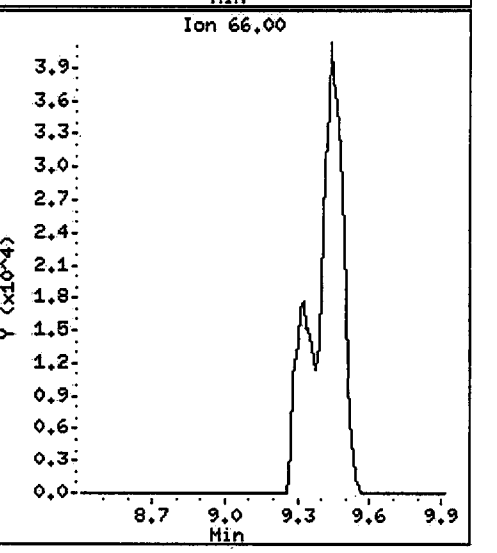
7 Phenol

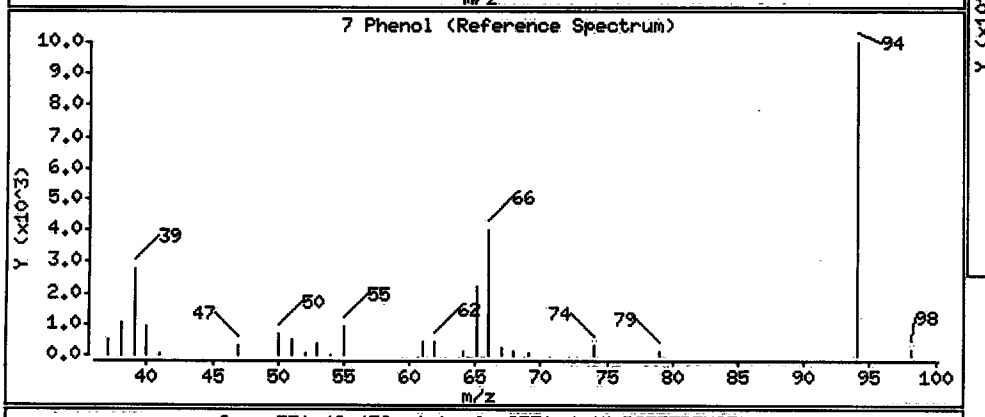
Concentration: 2300 ug/Kg

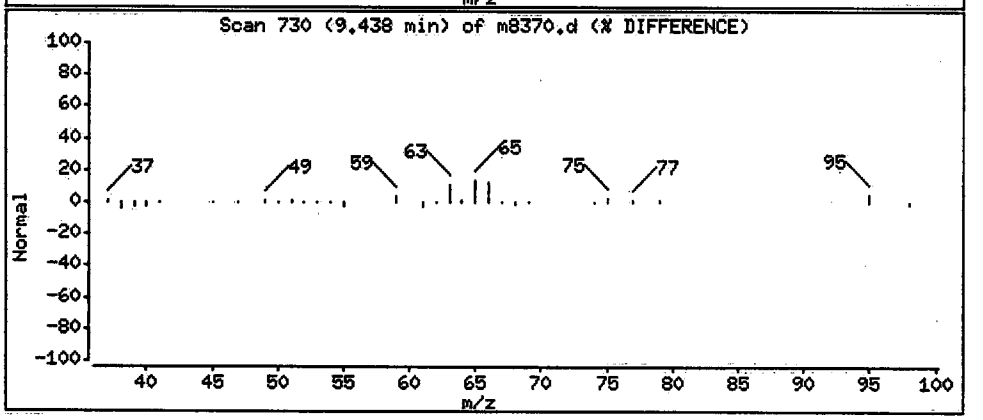












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

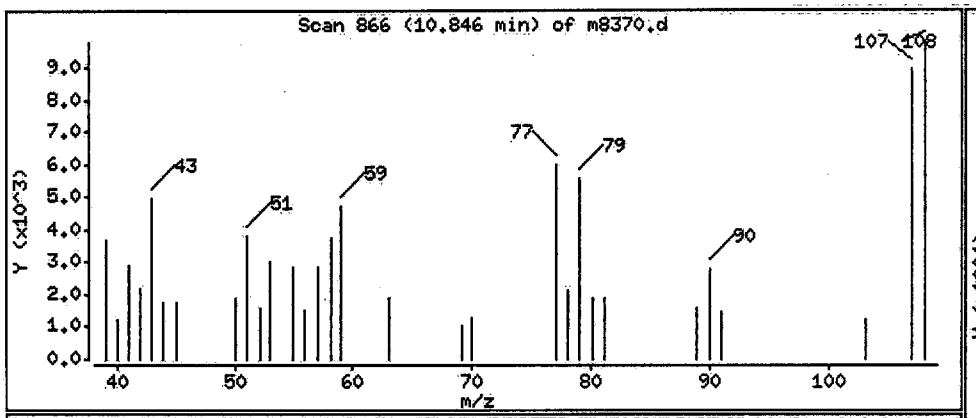
Operator: dce

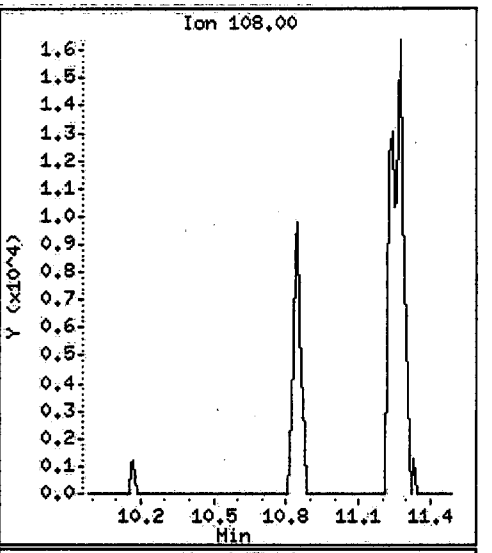
Column phase: ZB-5

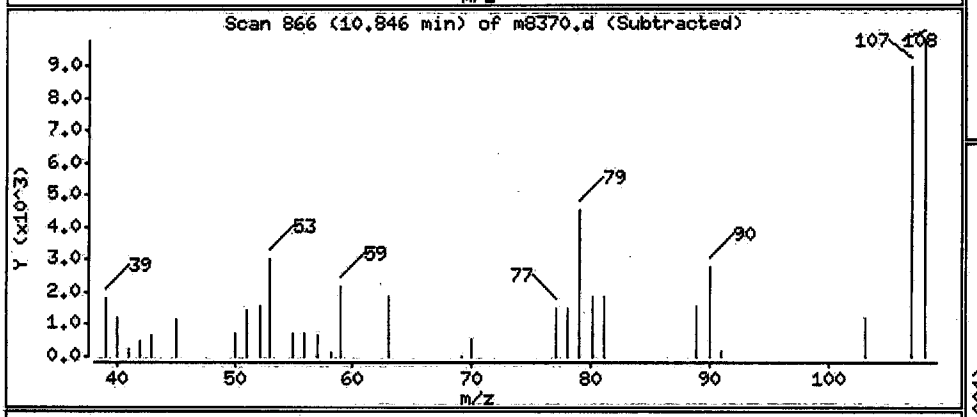
Column diameter: 0.25

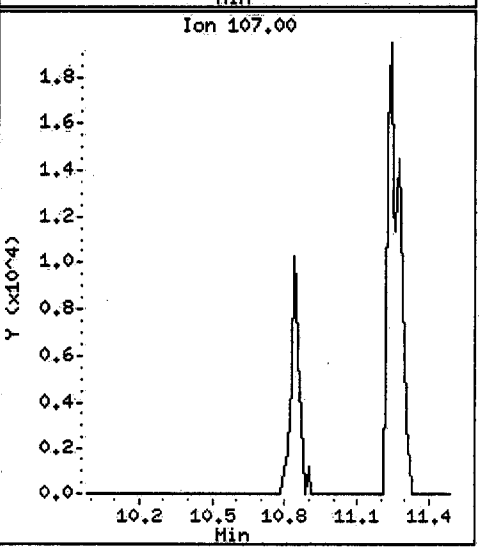
15 2-Methylphenol

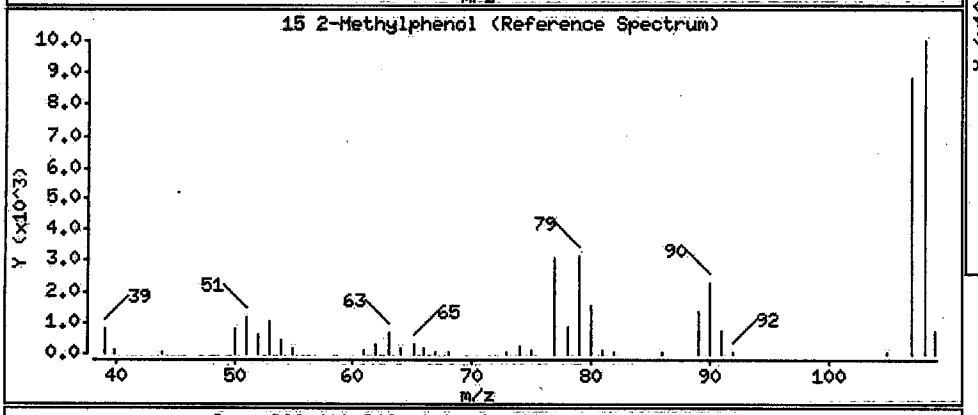
Concentration: 145 ug/Kg

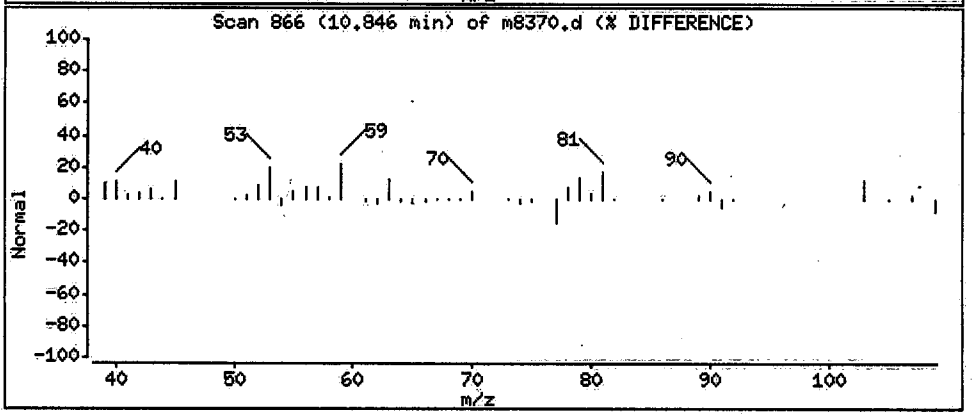












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

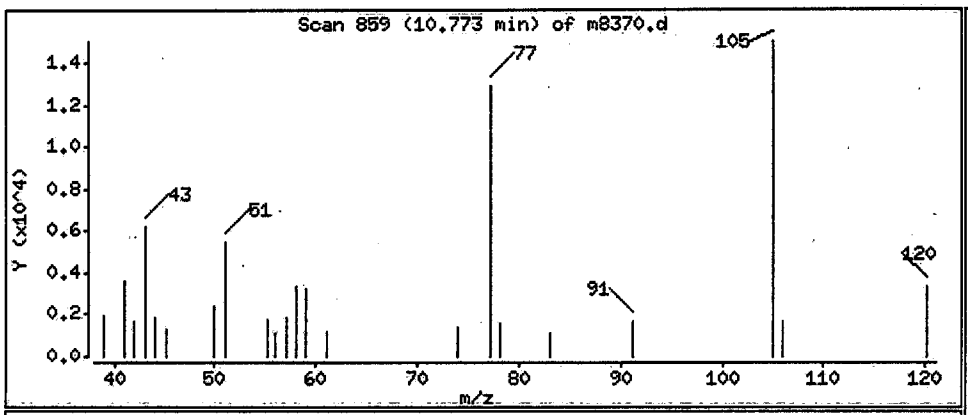
Operator: dce

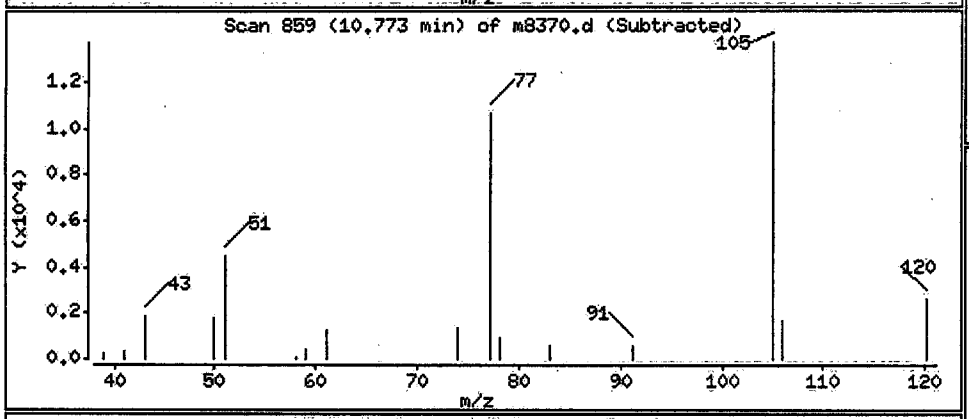
Column phase: ZB-5

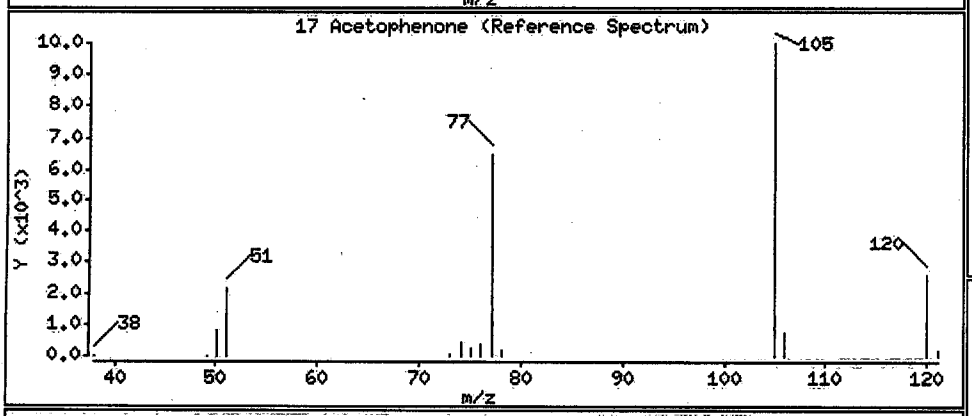
Column diameter: 0.25

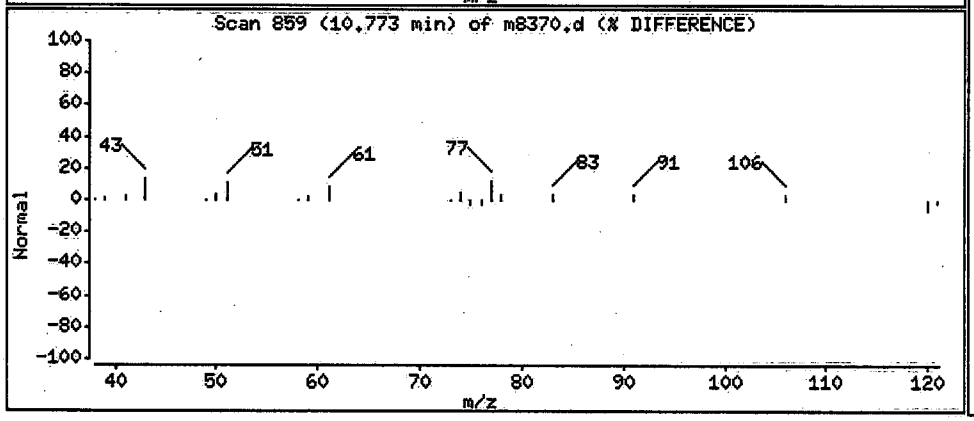
17 Acetophenone

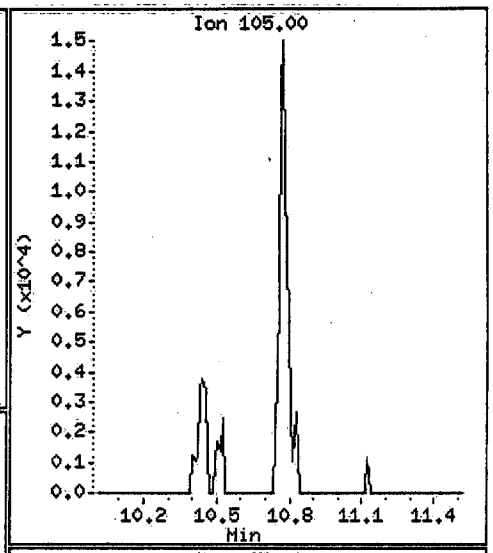
Concentration: 132 ug/Kg

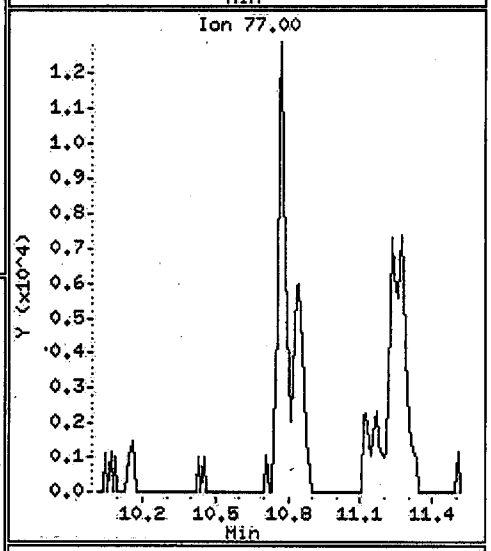


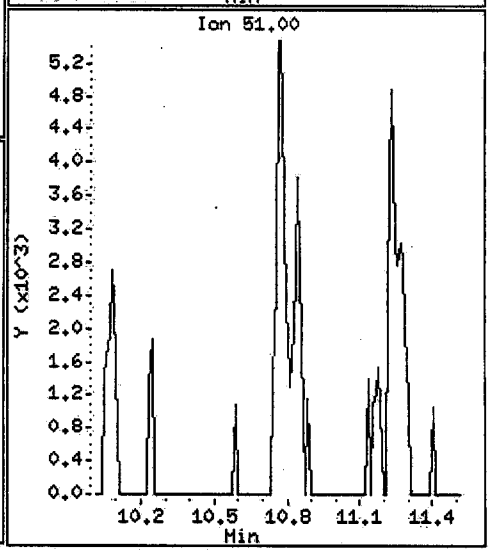












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

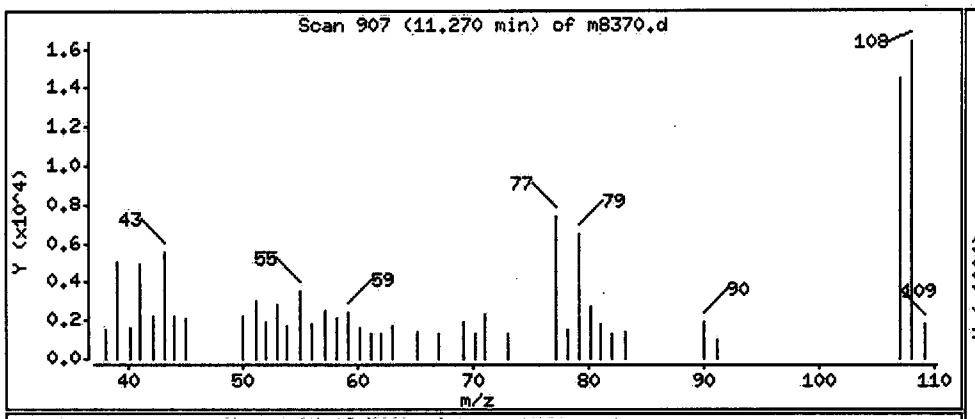
Operator: dce

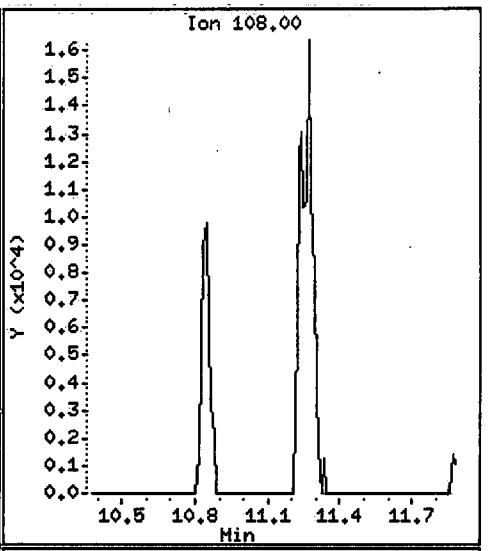
Column phase: ZB-5

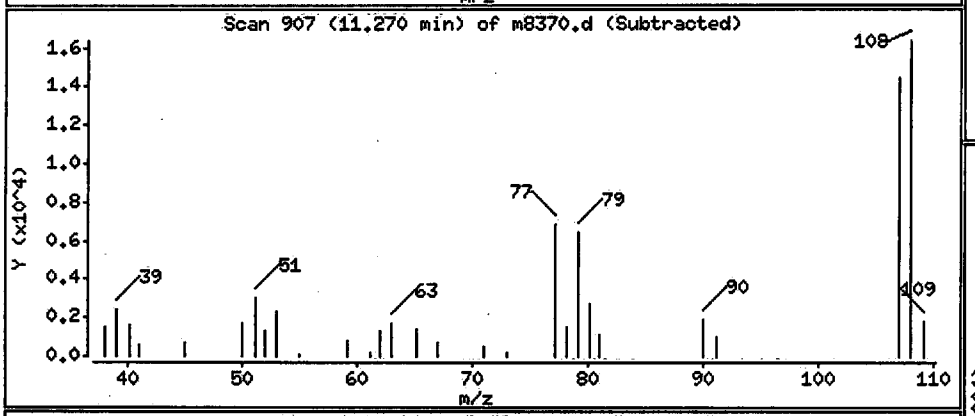
Column diameter: 0.25

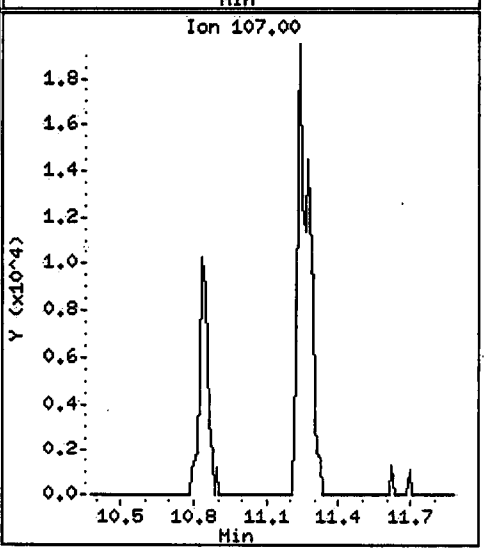
18 4-Methylphenol

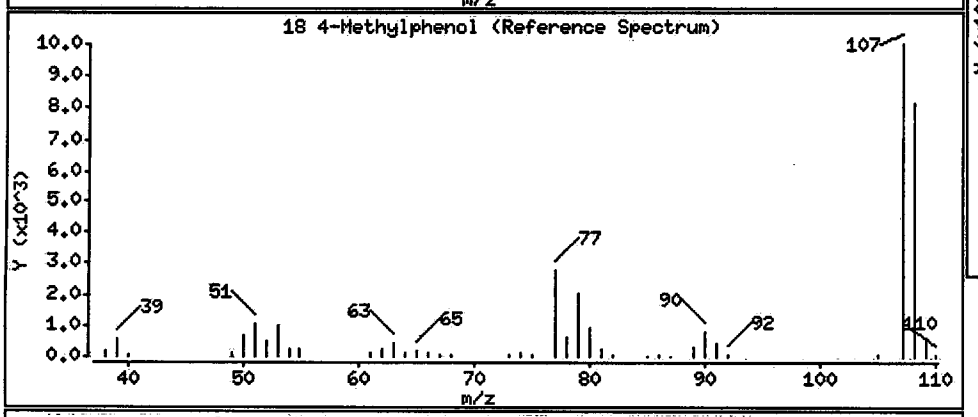
Concentration: 341 ug/Kg

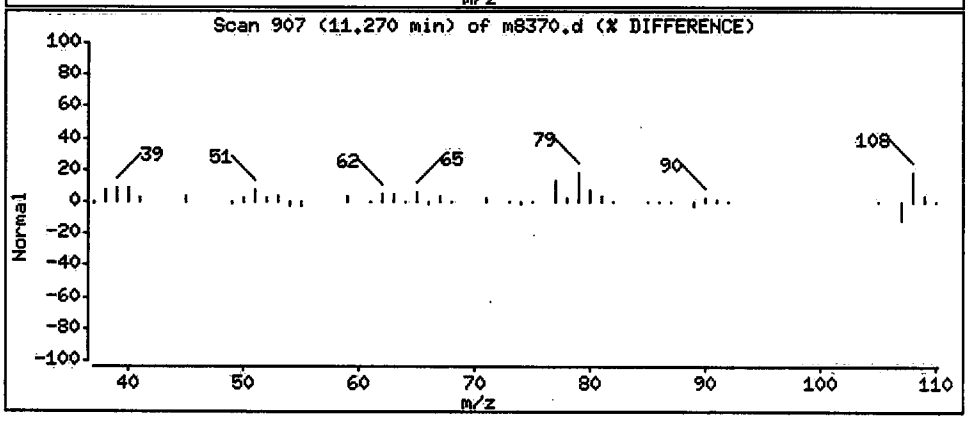












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

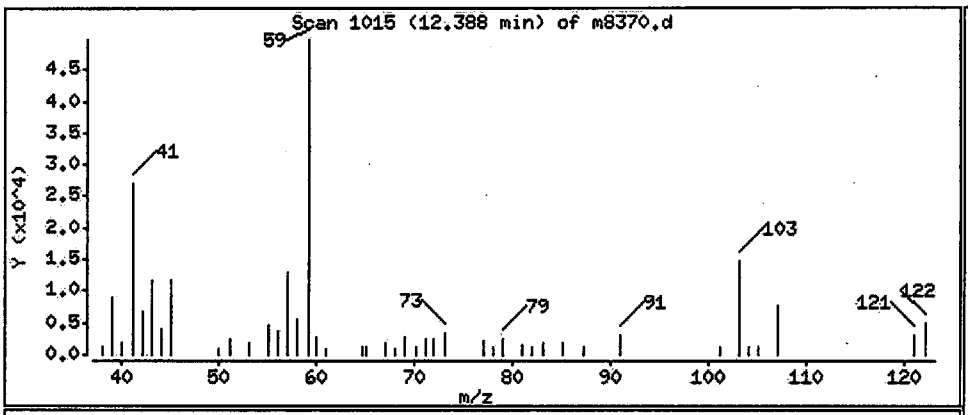
Operator: dce

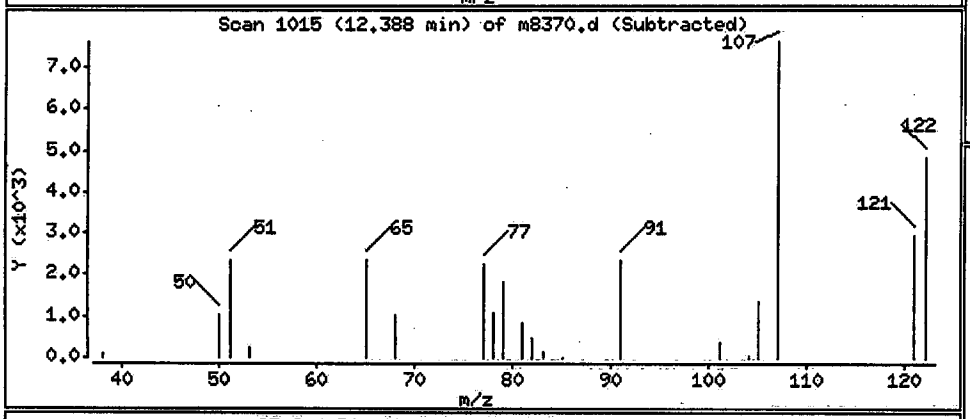
Column phase: ZB-5

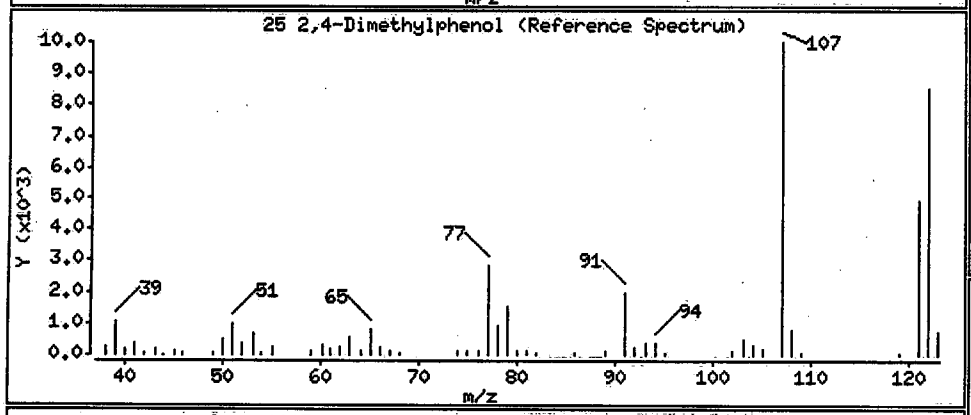
Column diameter: 0.25

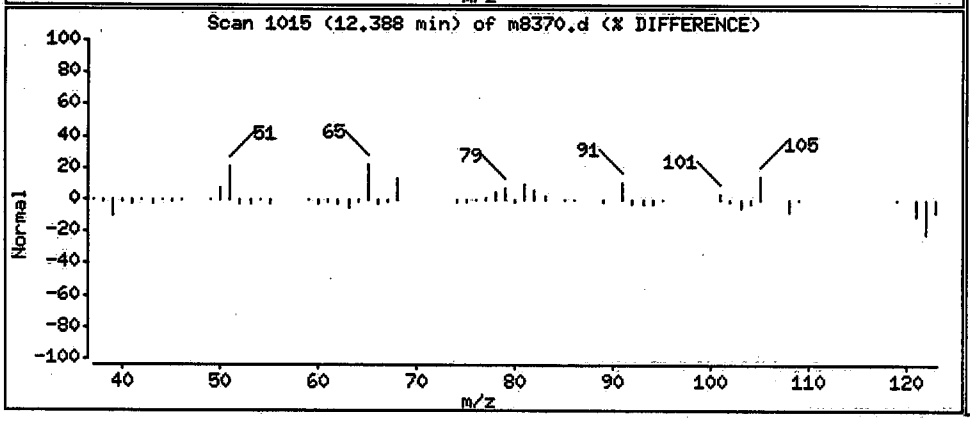
25 2,4-Dimethylphenol

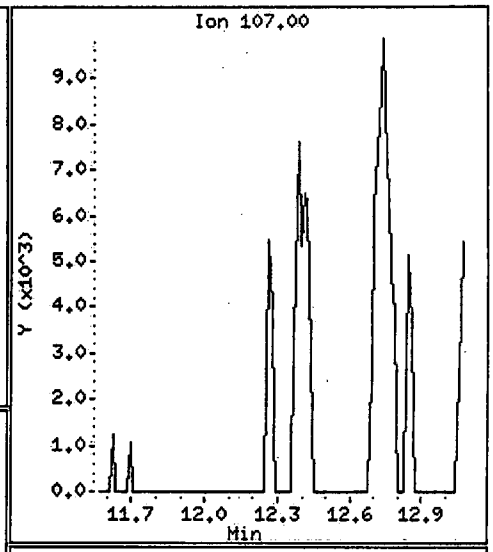
Concentration: 138 ug/Kg

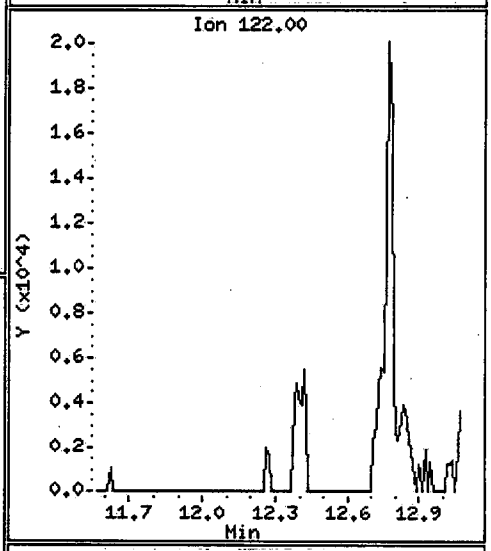


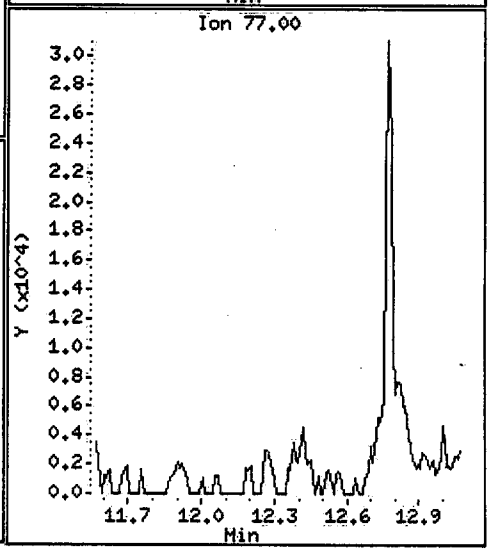












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

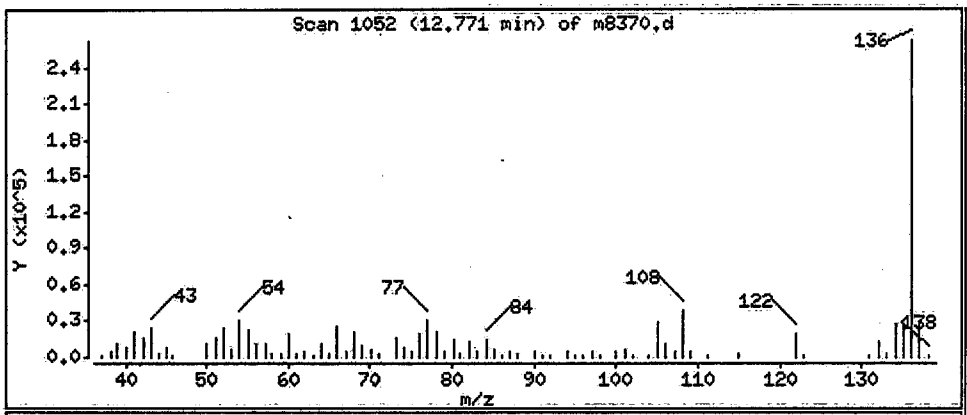
Operator: dce

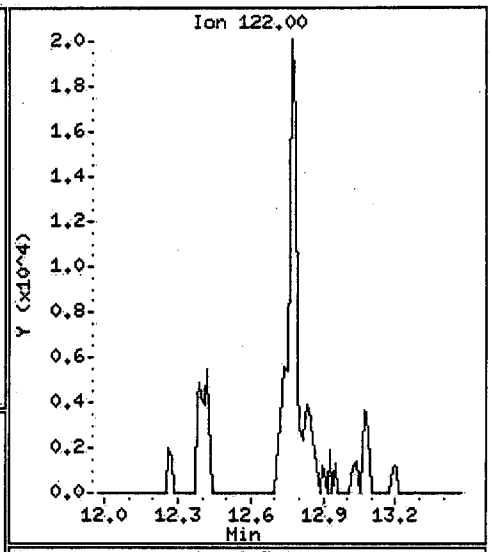
Column phase: ZB-5

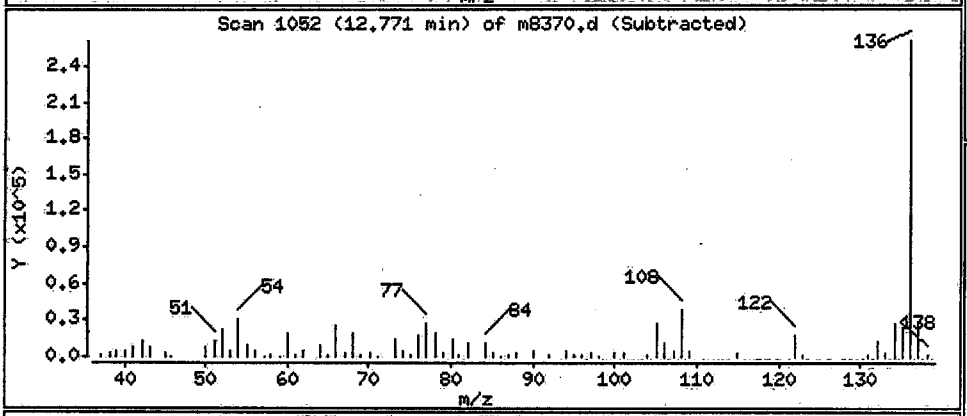
Column diameter: 0.25

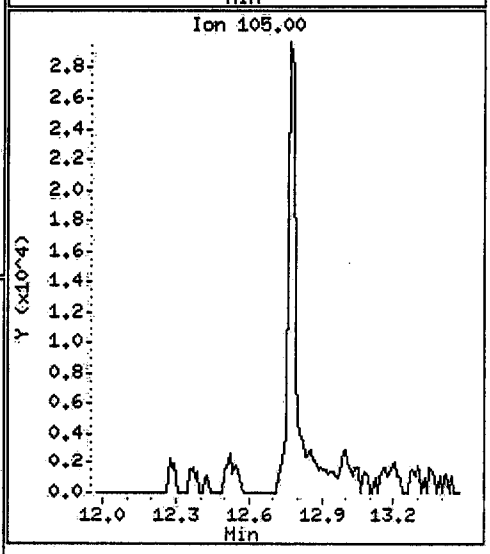
27 Benzoic acid

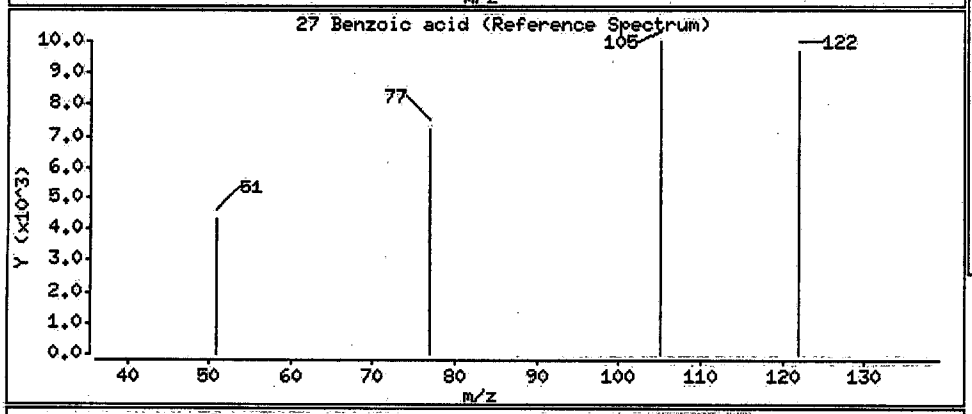
Concentration: 544 ug/Kg

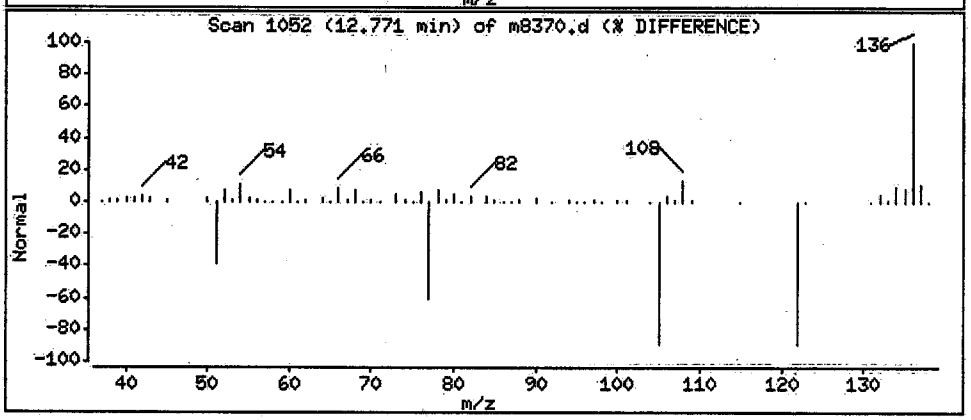












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

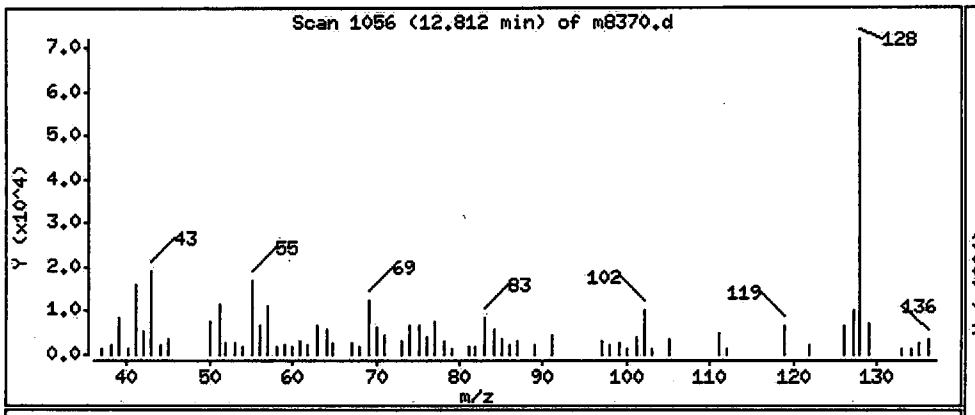
Operator: dce

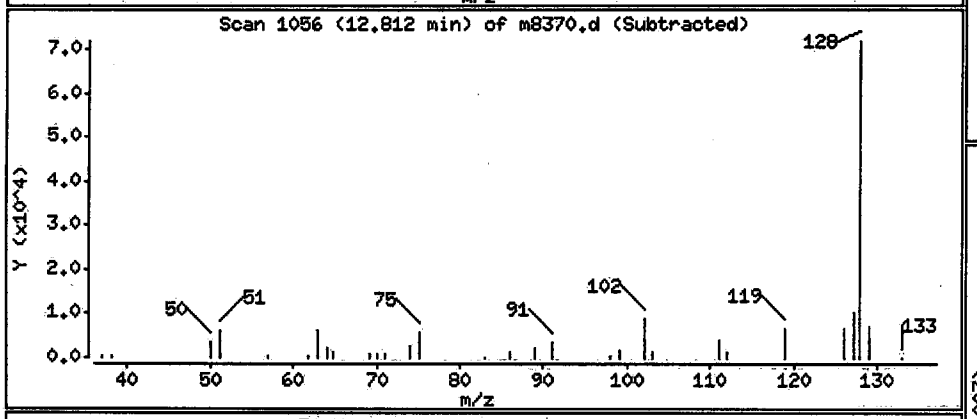
Column phase: ZB-5

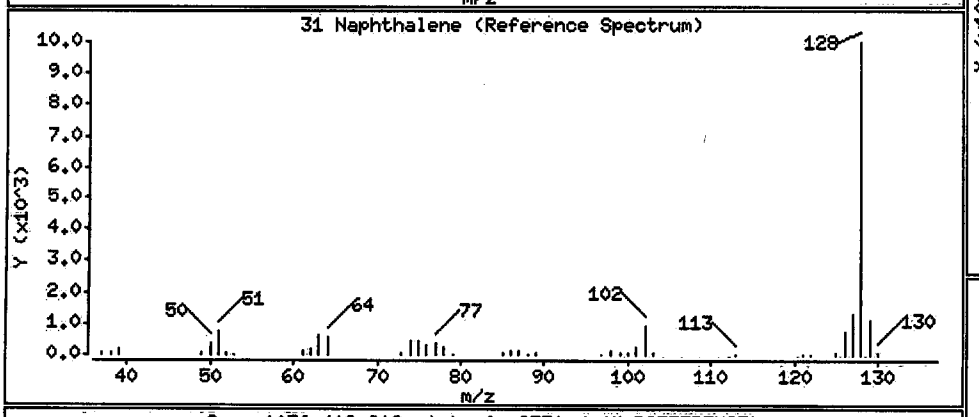
Column diameter: 0.25

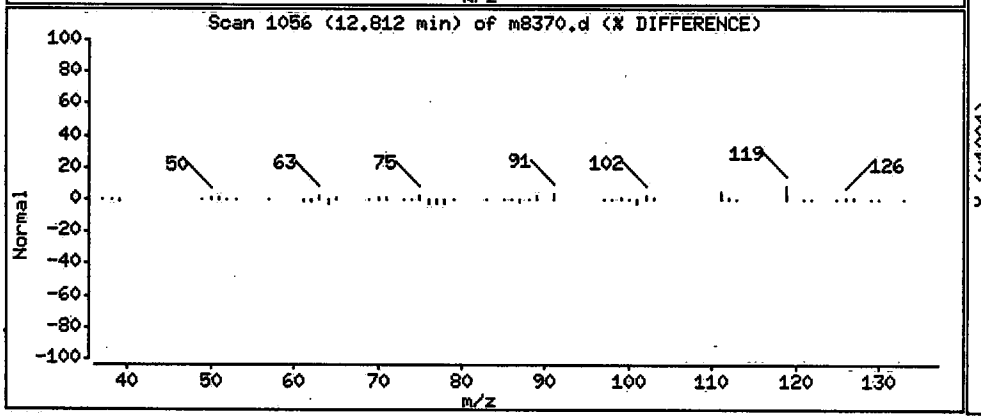
31 Naphthalene

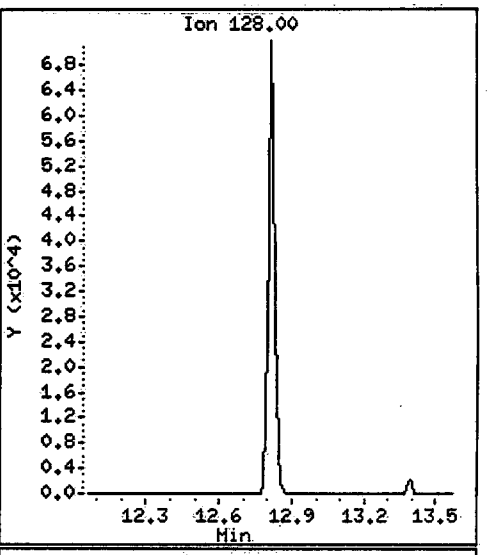
Concentration: 308 ug/Kg

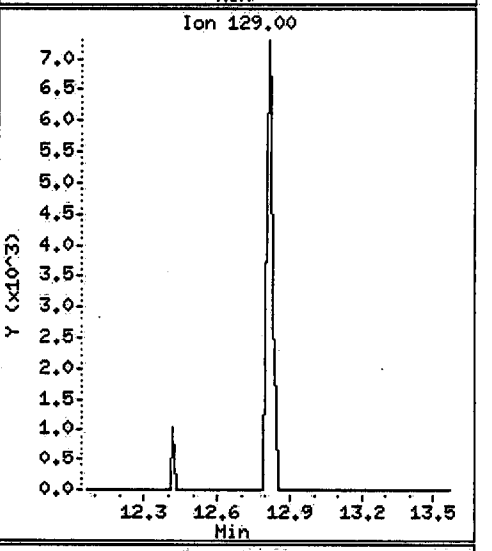


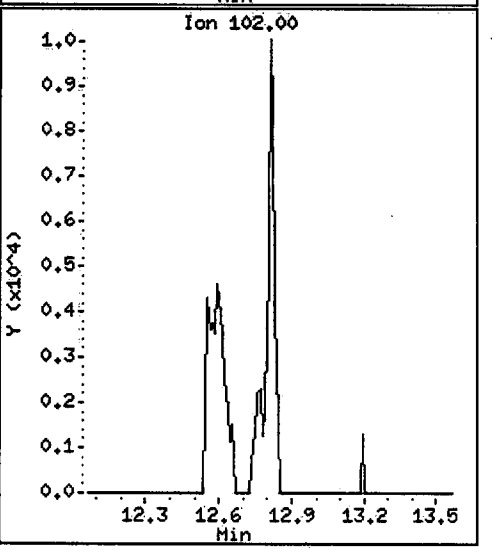












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

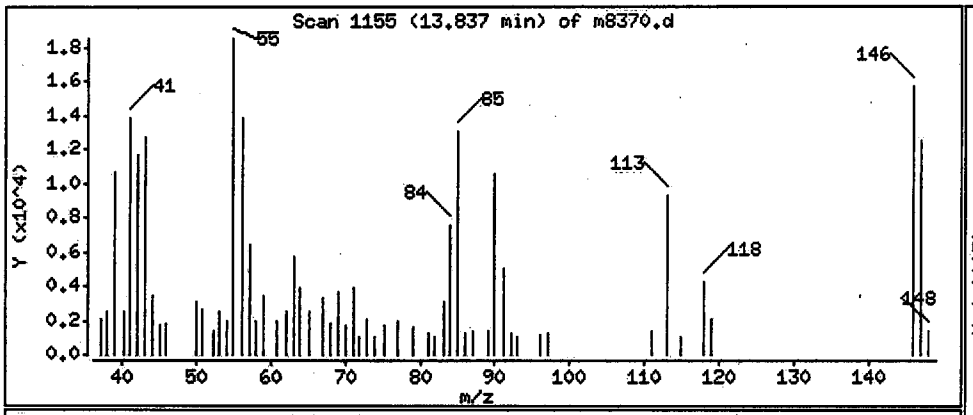
Operator: dce

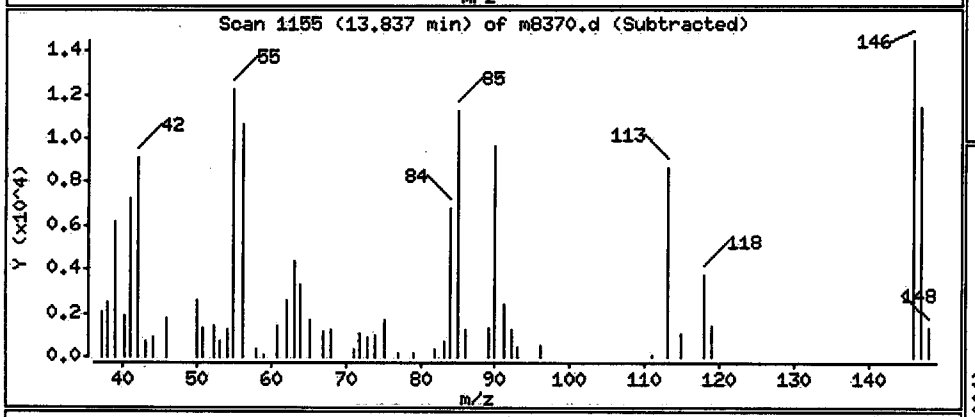
Column phase: ZB-5

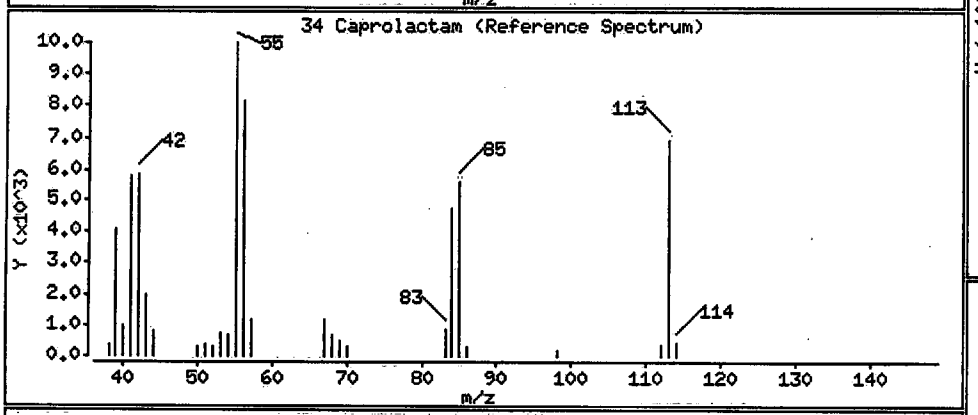
Column diameter: 0.25

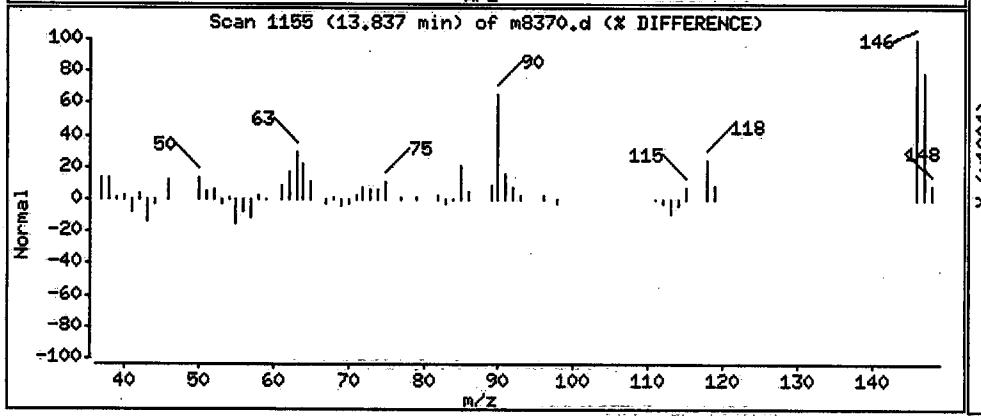
34 Caprolactam

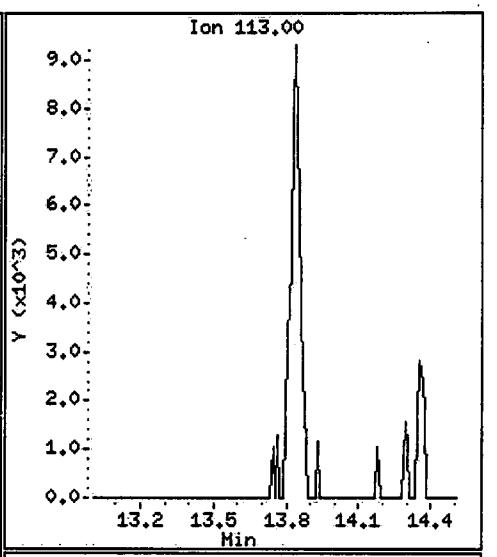
Concentration: 507 ug/Kg

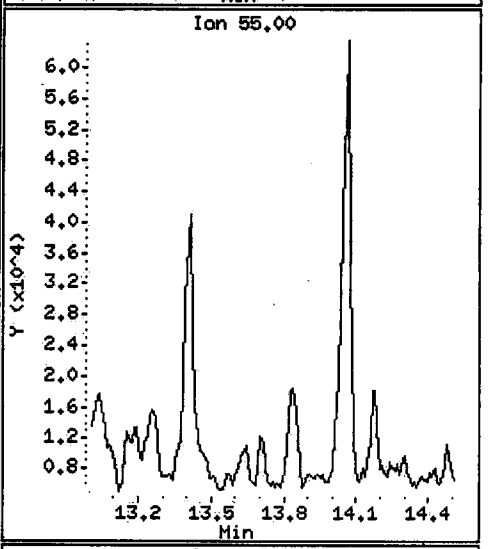


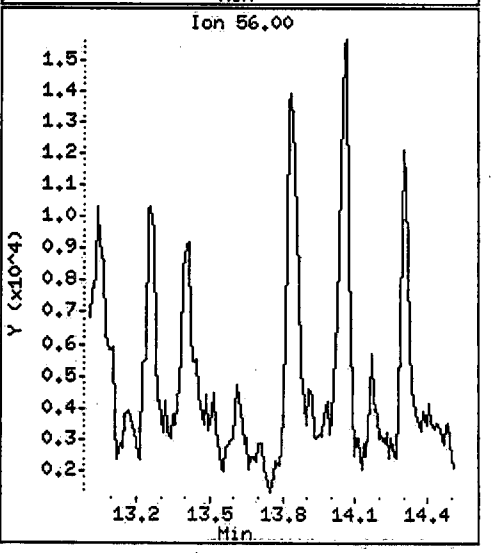












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

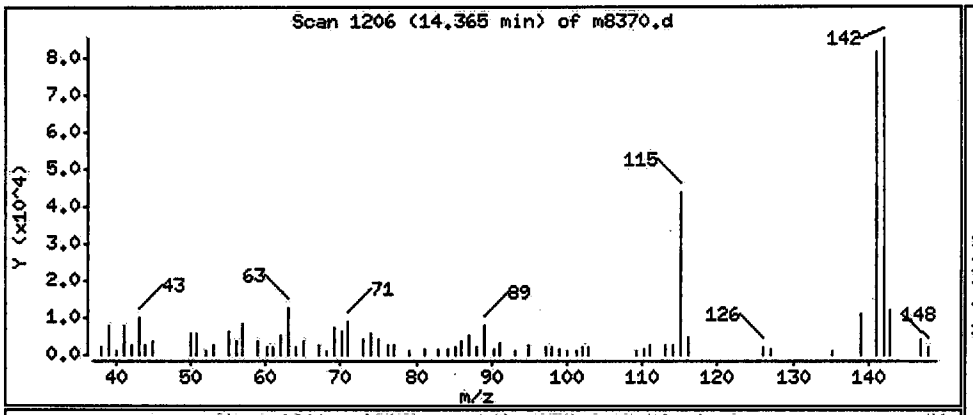
Operator: dce

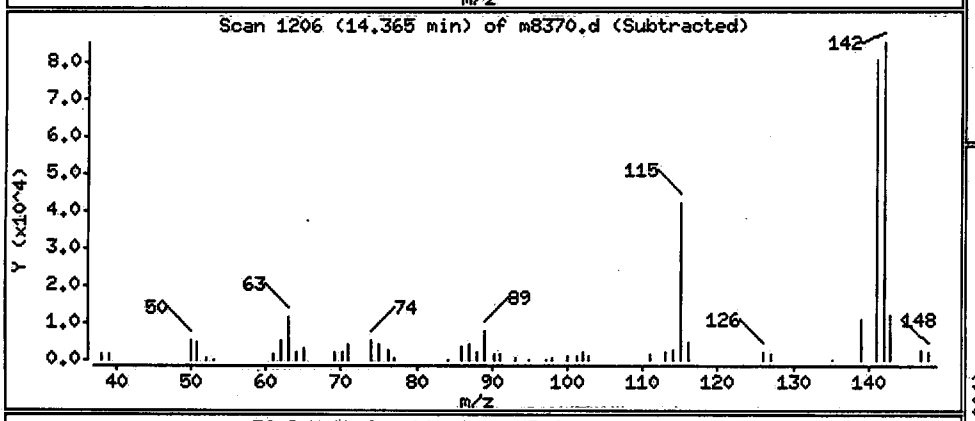
Column phase: ZB-5

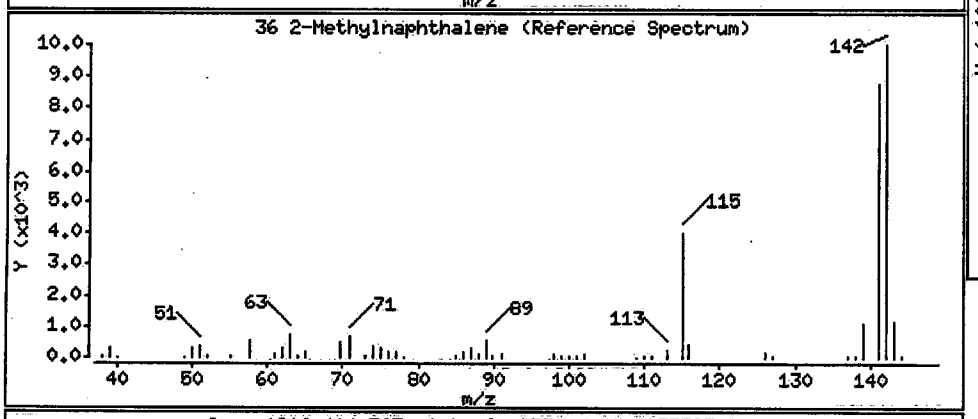
Column diameter: 0.25

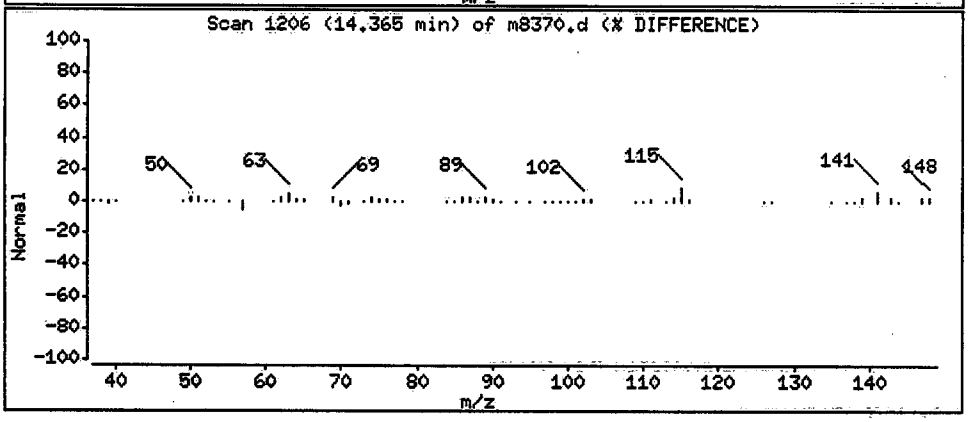
36 2-Methylnaphthalene

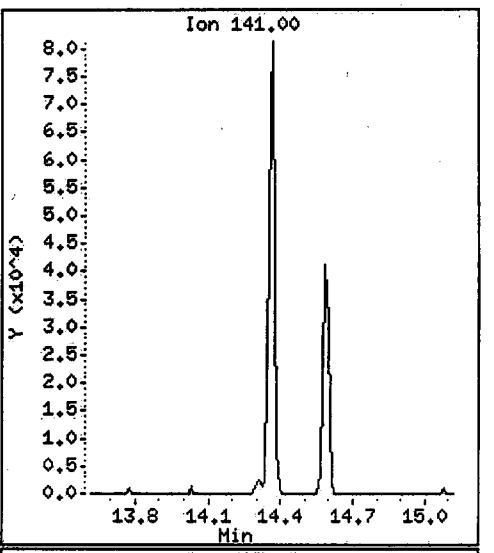
Concentration: 535 ug/Kg

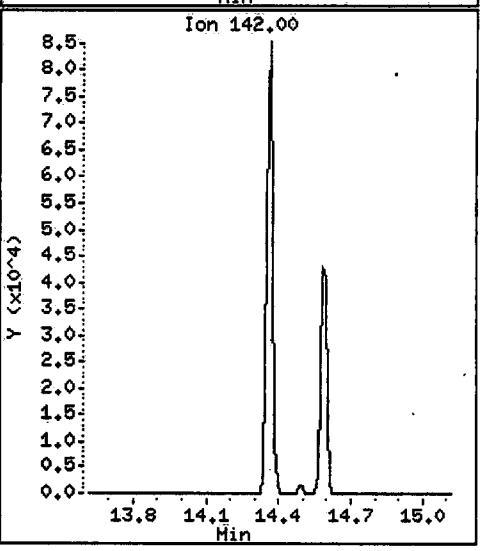












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

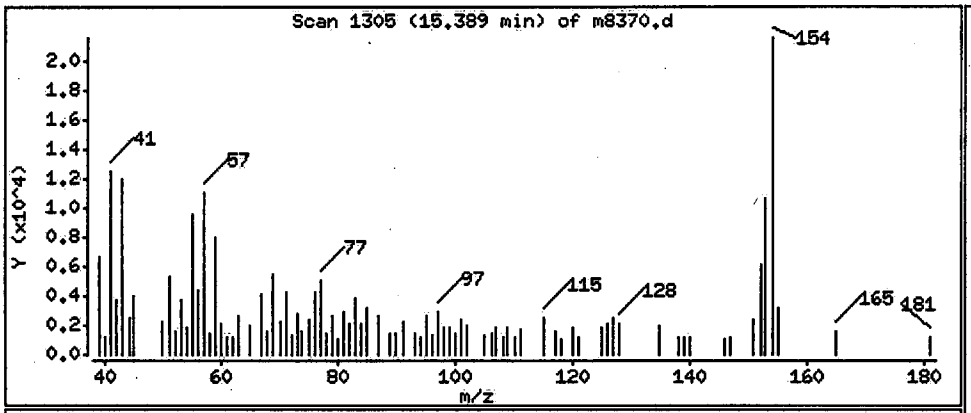
Operator: dce

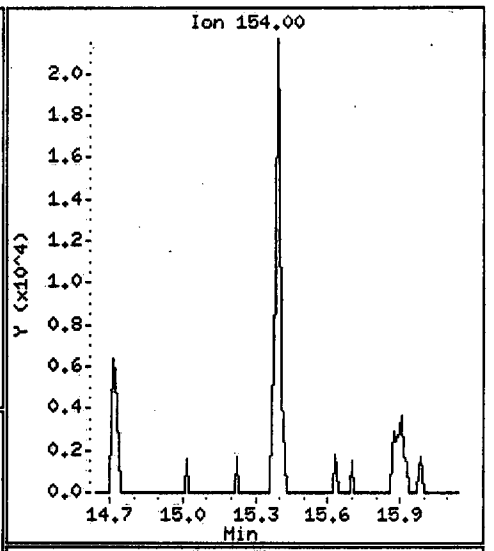
Column phase: ZB-5

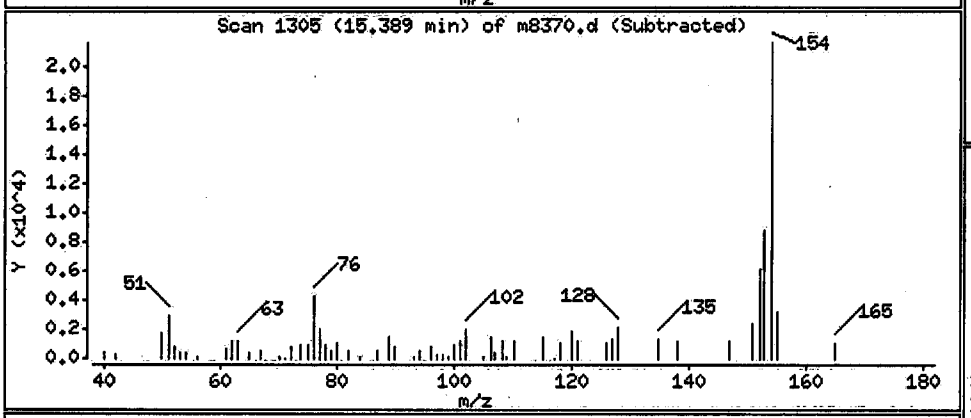
Column diameter: 0.25

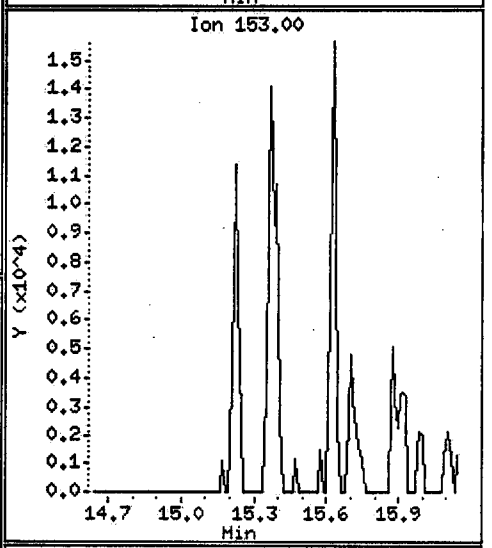
42 Biphenyl

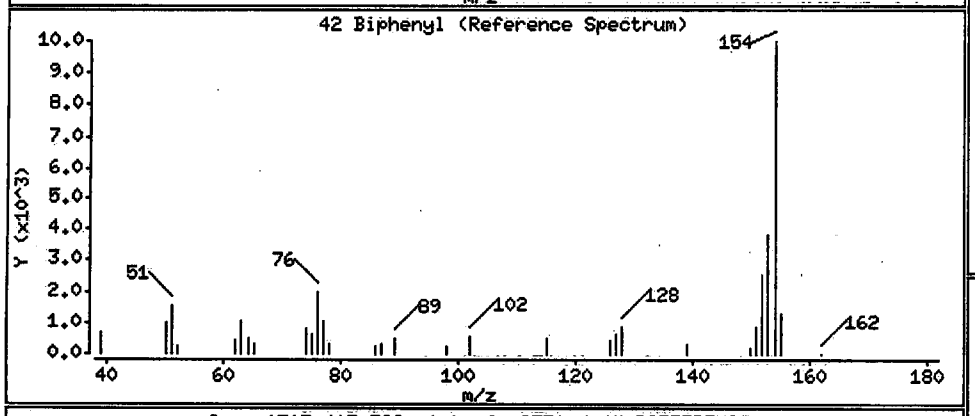
Concentration: 82.0 ug/Kg

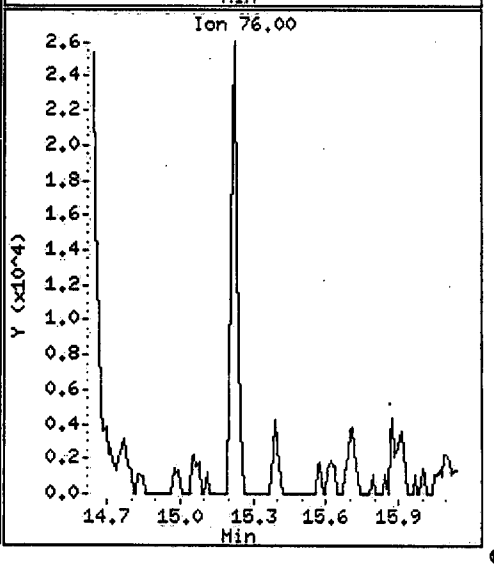


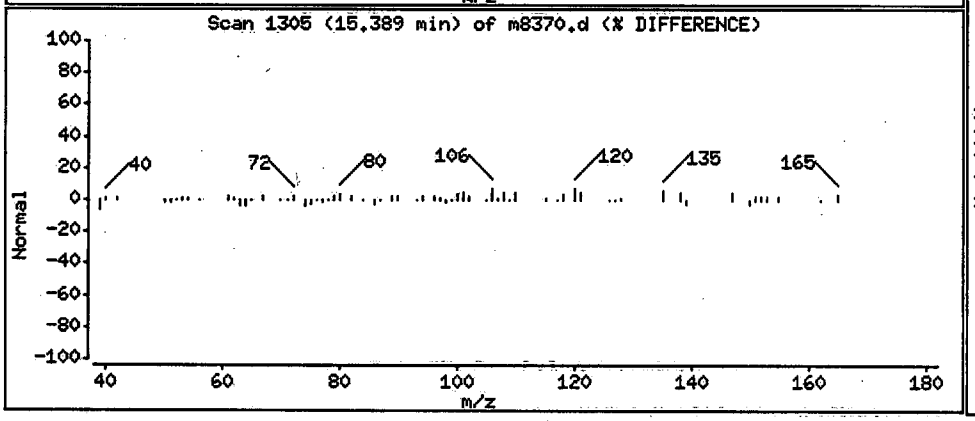












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

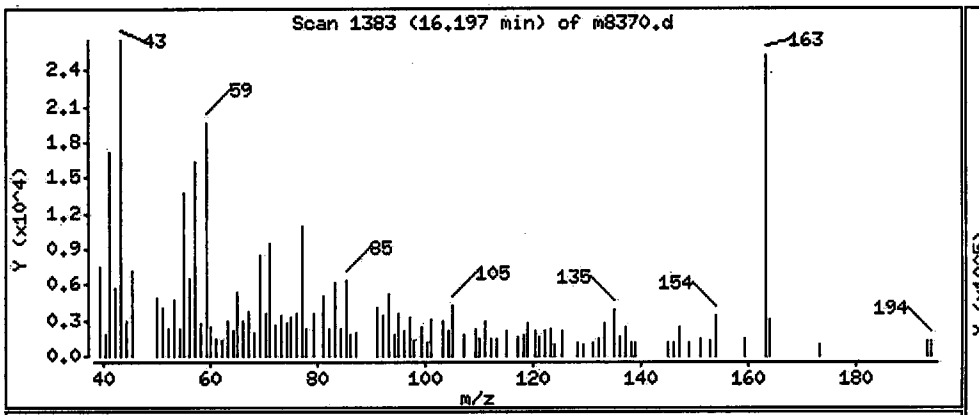
Operator: doe

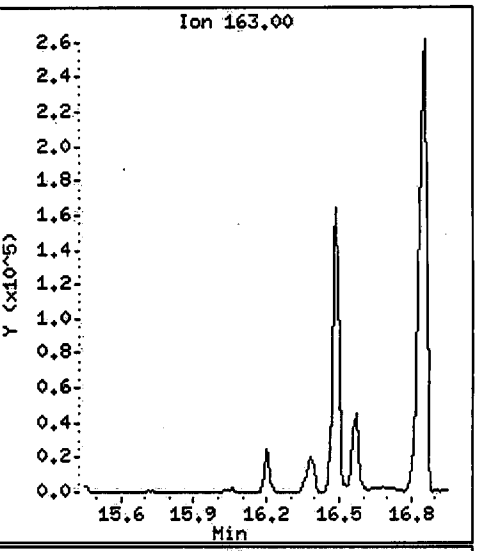
Column phase: ZB-5

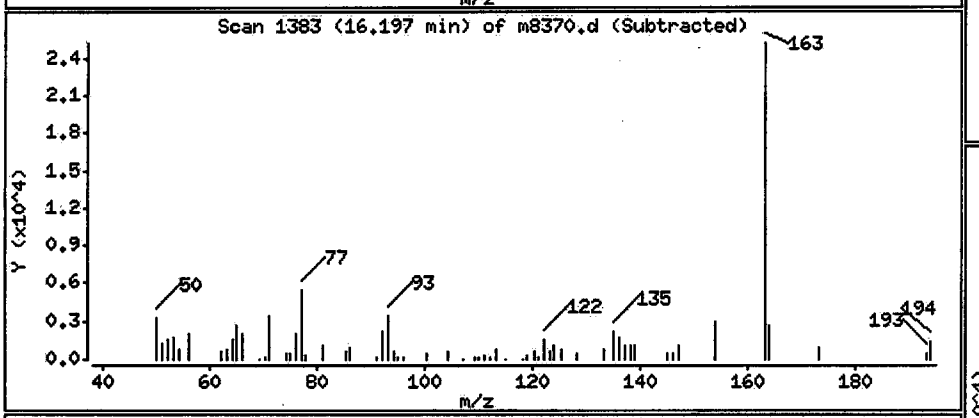
Column diameter: 0.25

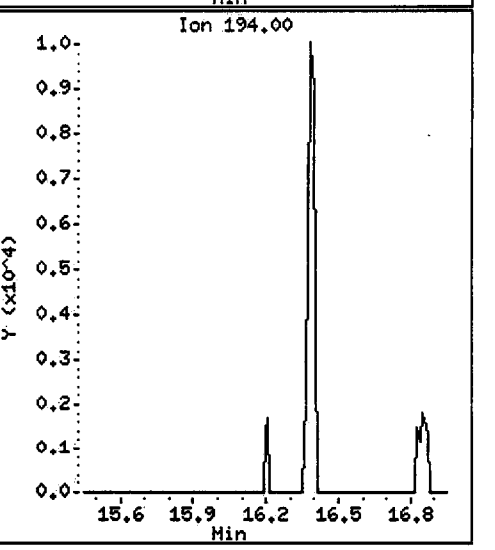
44 Dimethyl phthalate

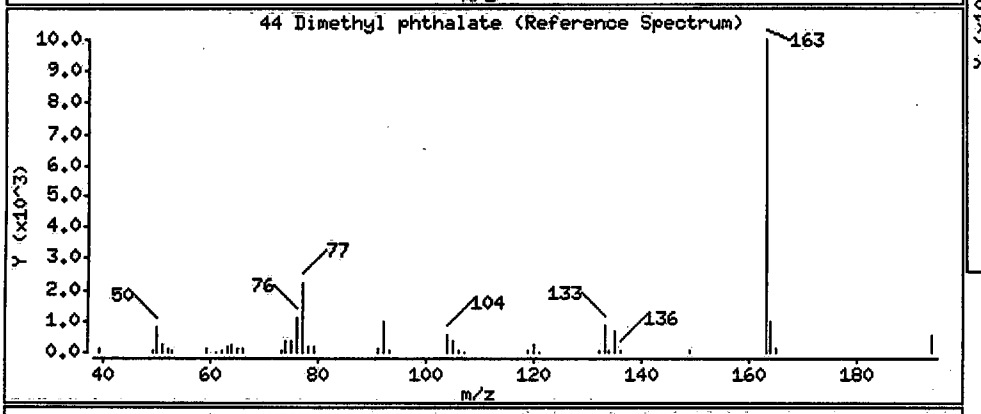
Concentration: 94.1 ug/Kg

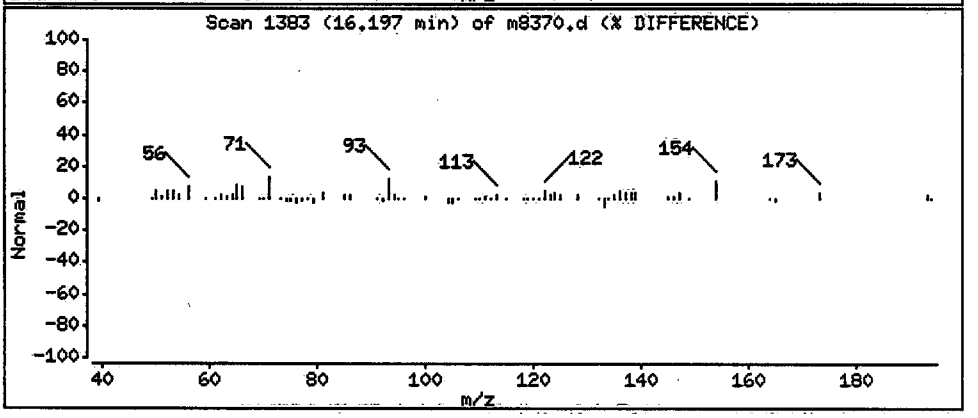












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

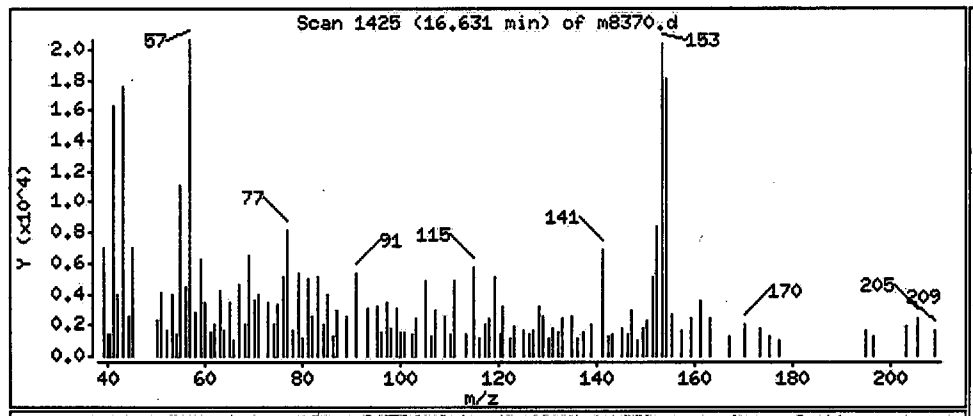
Operator: dce

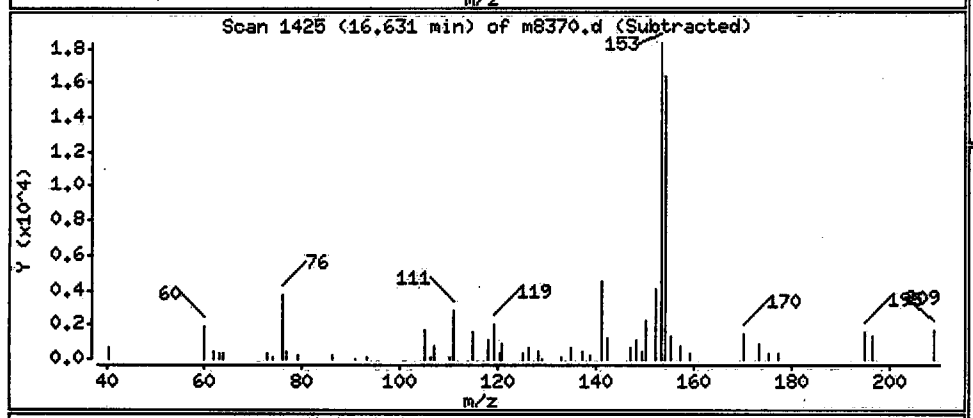
Column phase: ZB-5

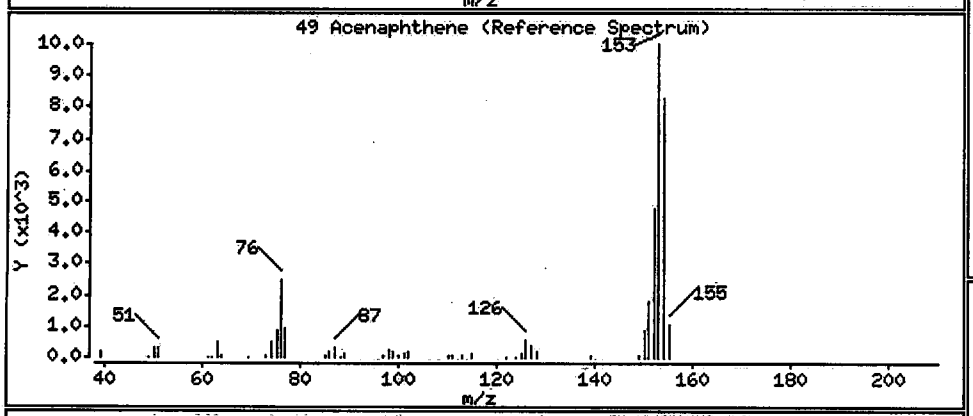
Column diameter: 0.25

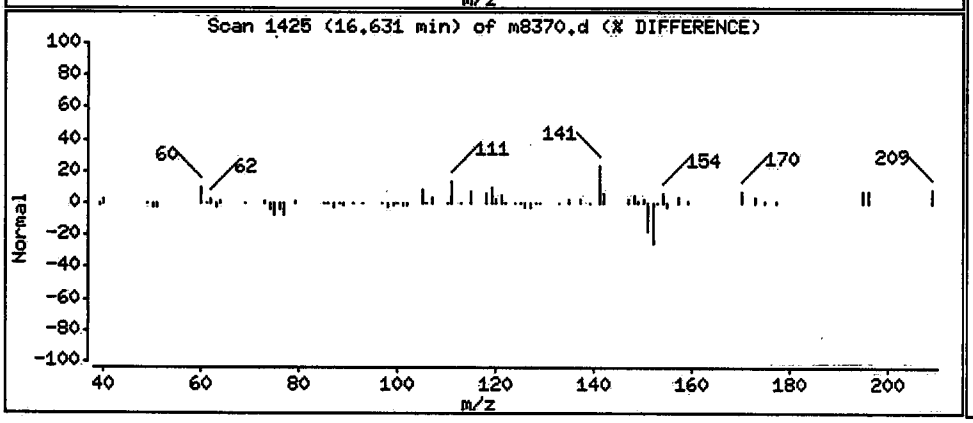
49 Acenaphthene

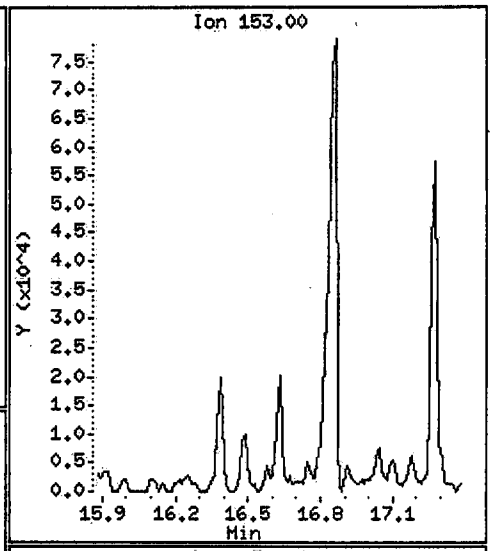
Concentration: 93.0 ug/Kg

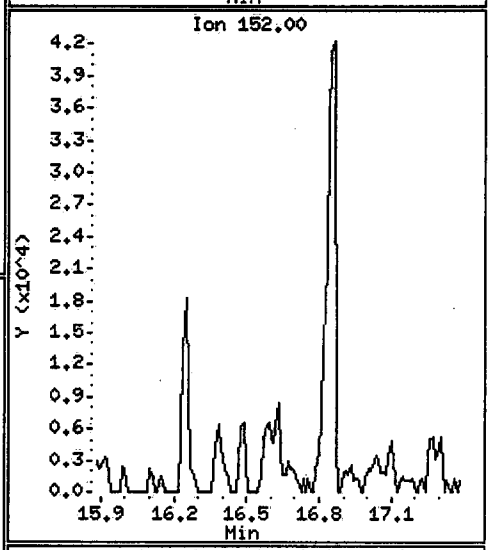


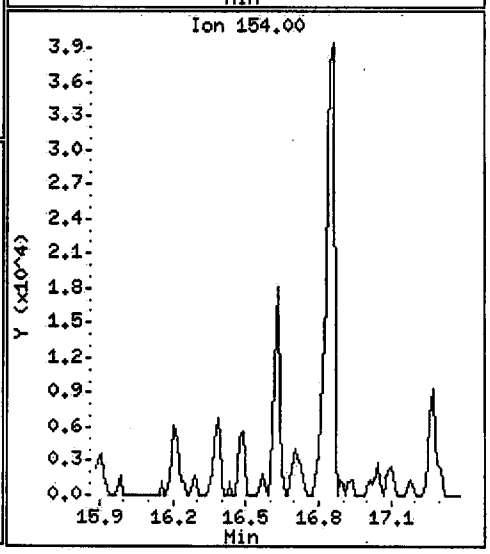












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

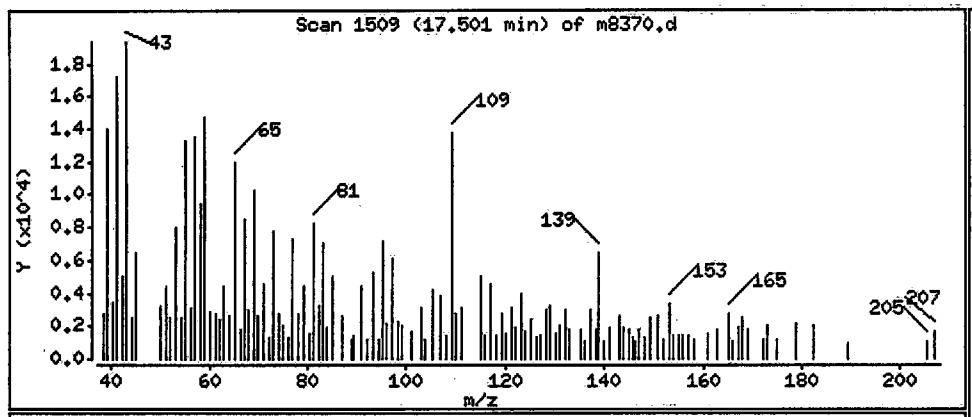
Operator: dce

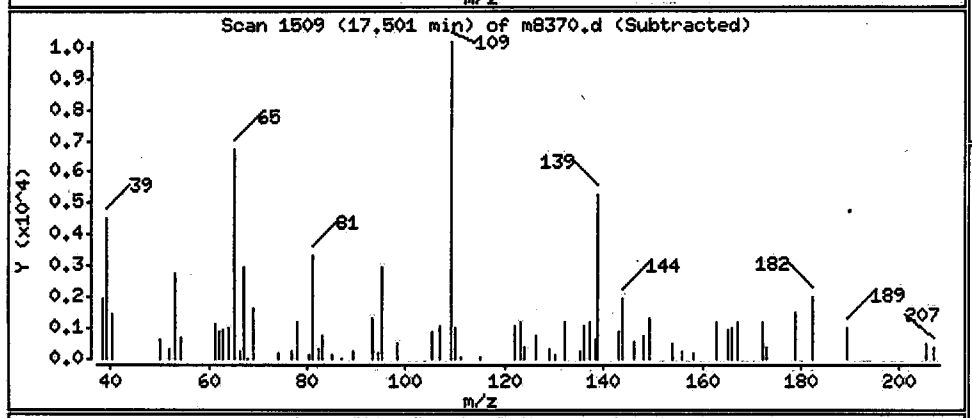
Column phase: ZB-5

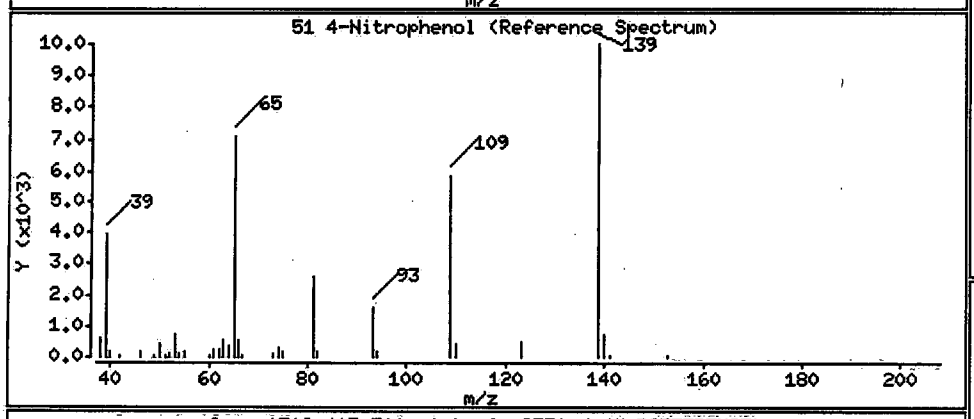
Column diameter: 0.25

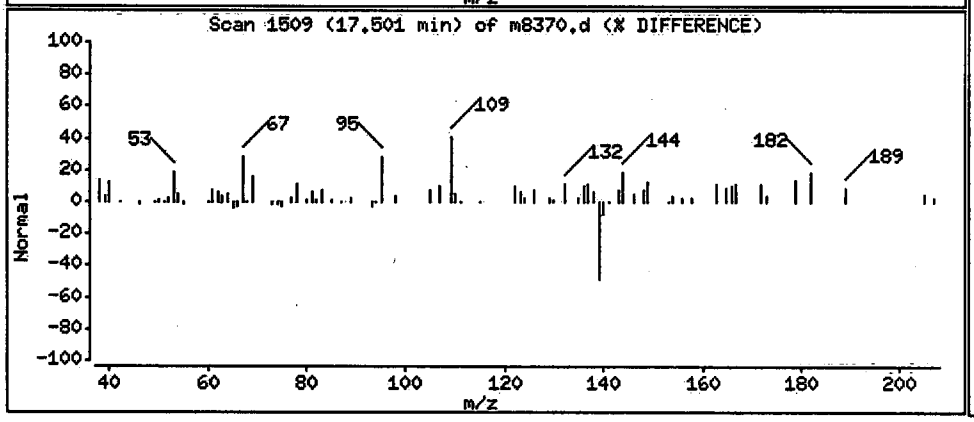
51 4-Nitrophenol

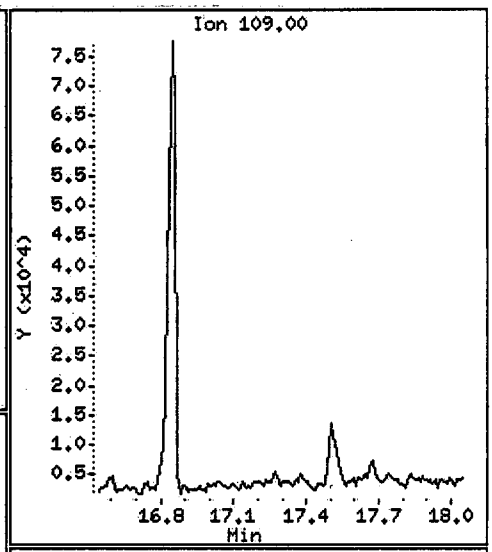
Concentration: 300 ug/Kg

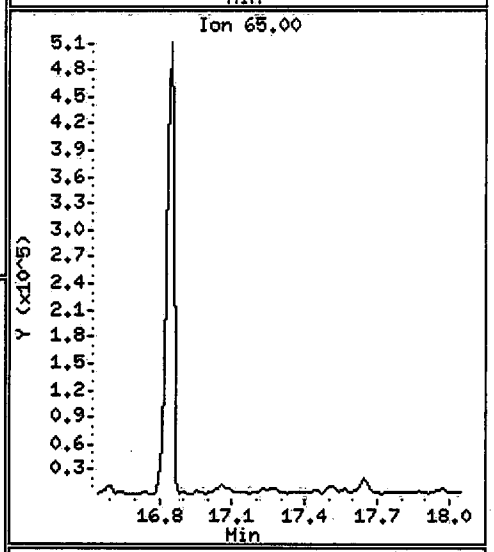


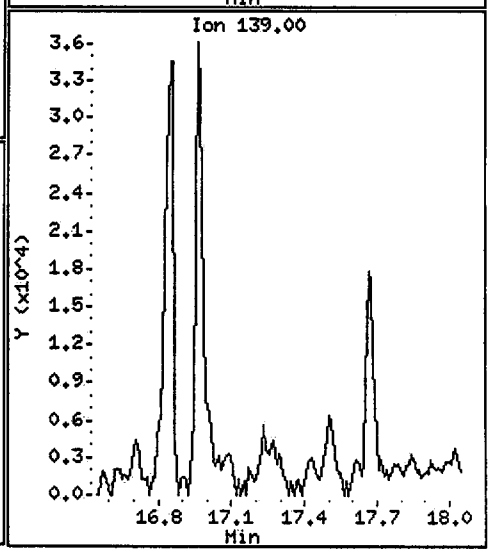












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

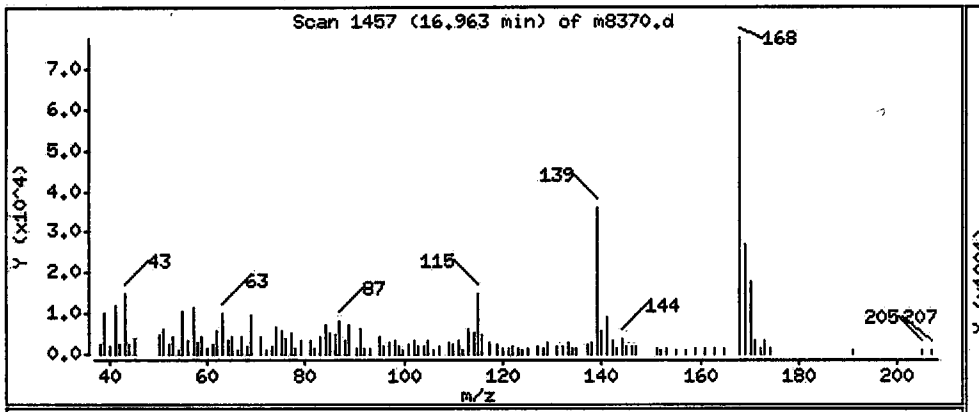
Operator: dce

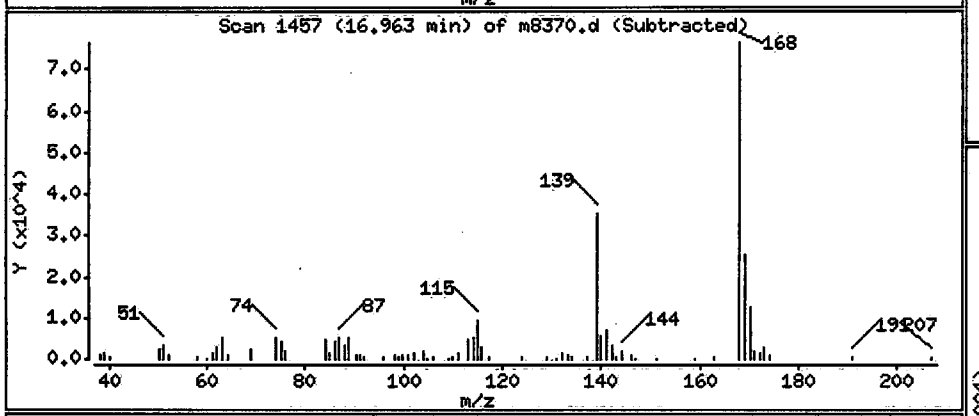
Column phase: ZB-5

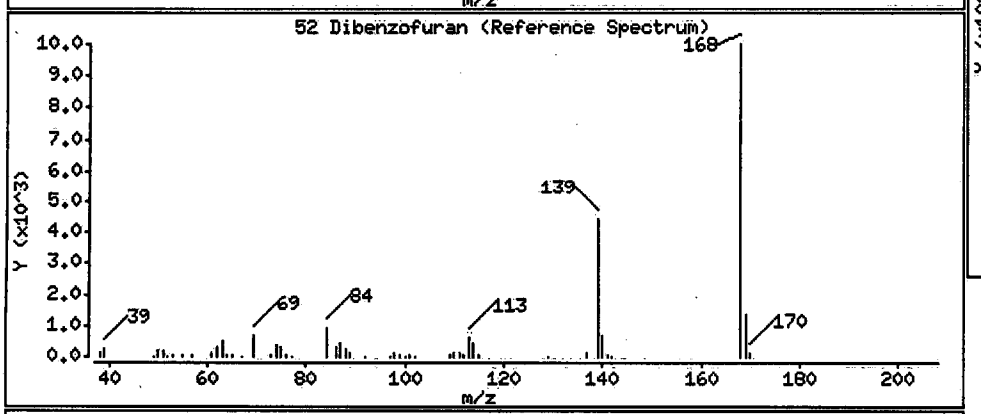
Column diameter: 0.25

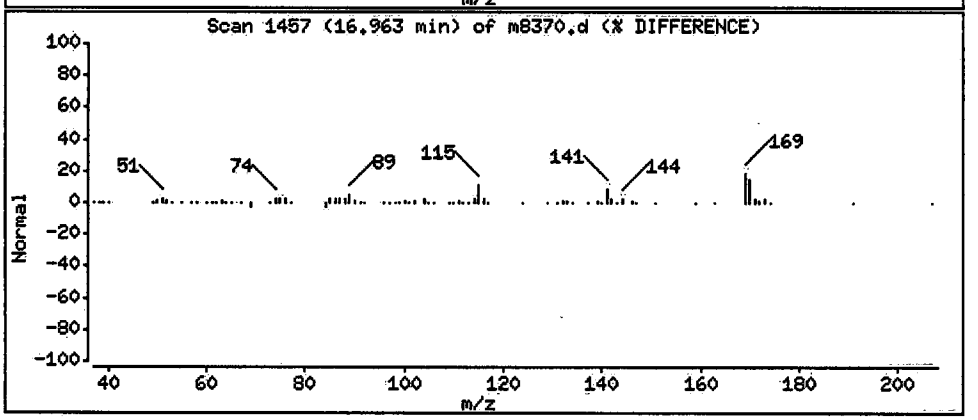
52 Dibenzofuran

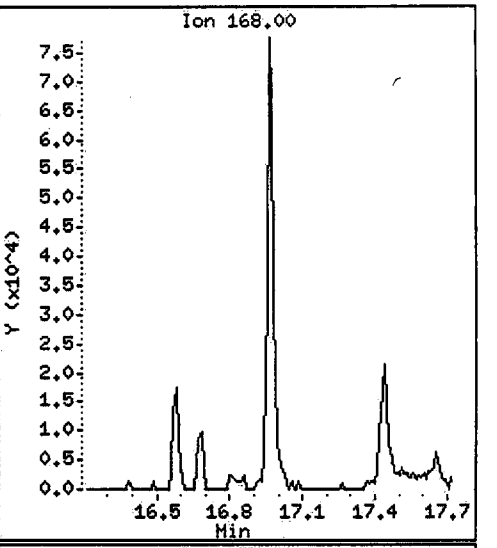
Concentration: 294 ug/Kg

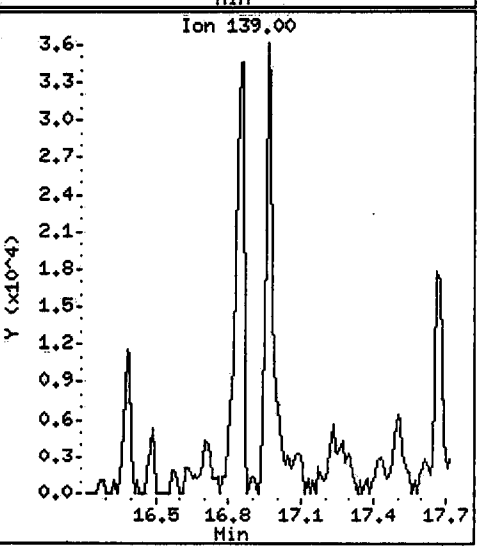












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

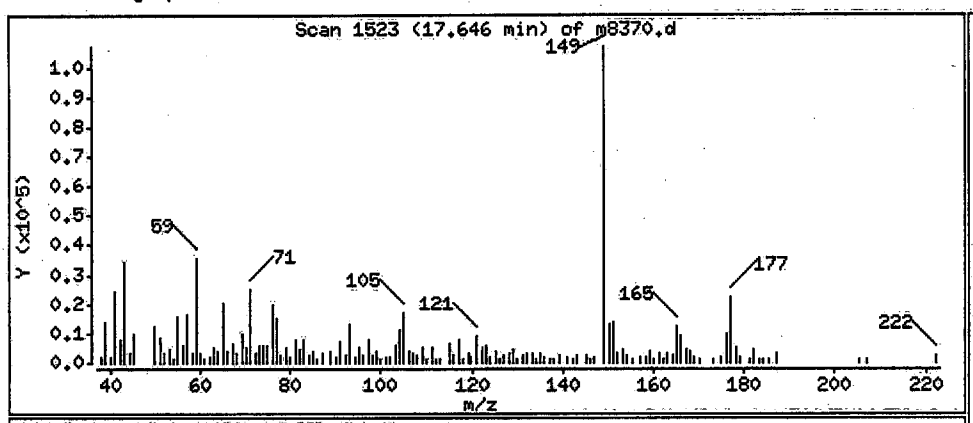
Operator: dce

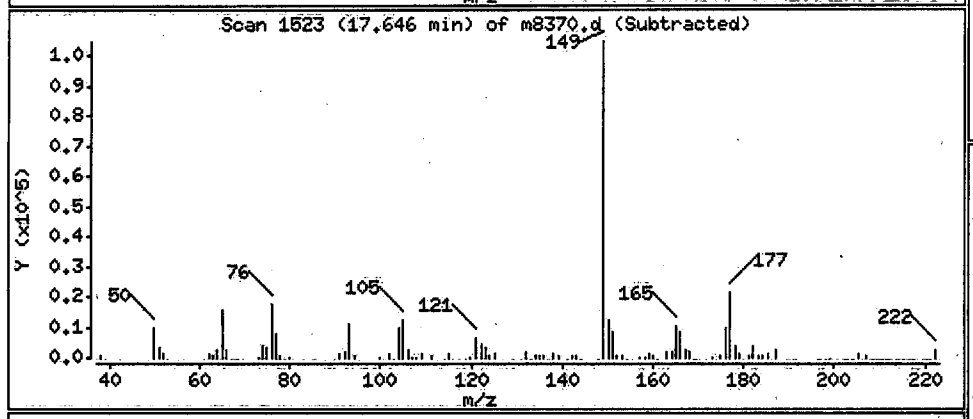
Column phase: ZB-5

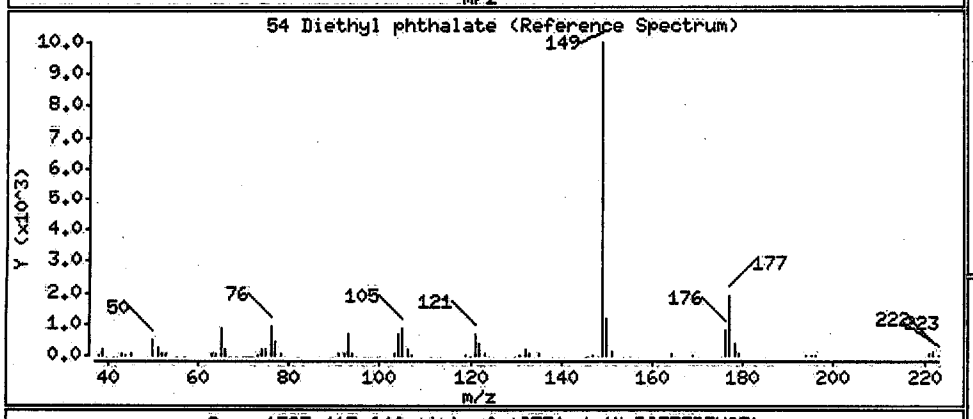
Column diameter: 0.25

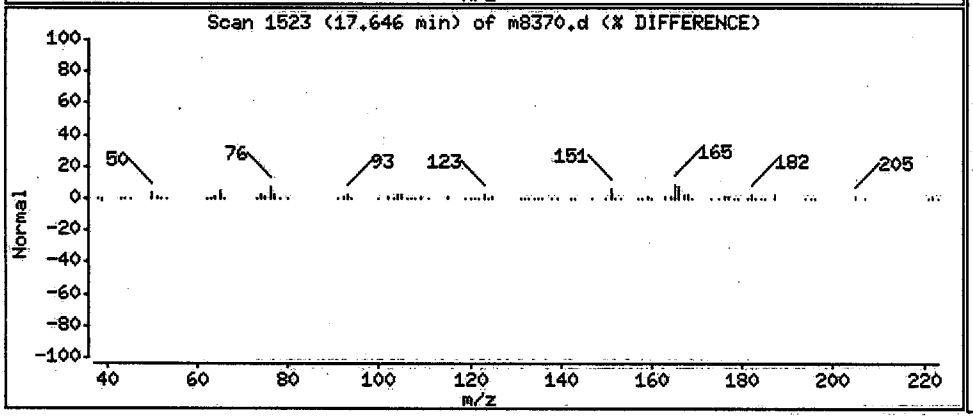
54 Diethyl phthalate

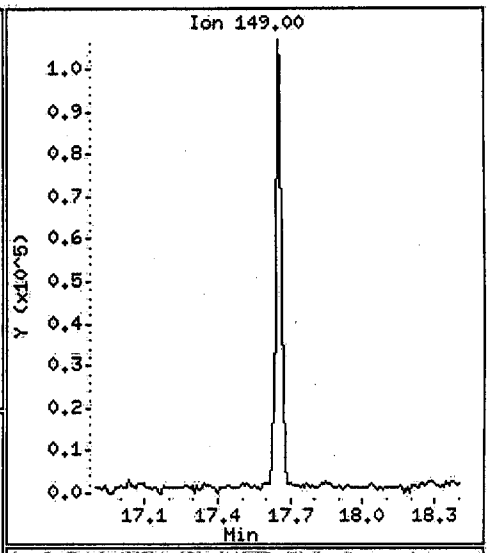
Concentration: 386 ug/Kg

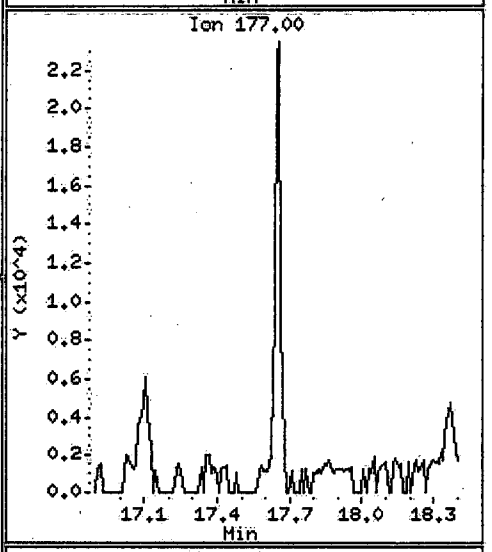


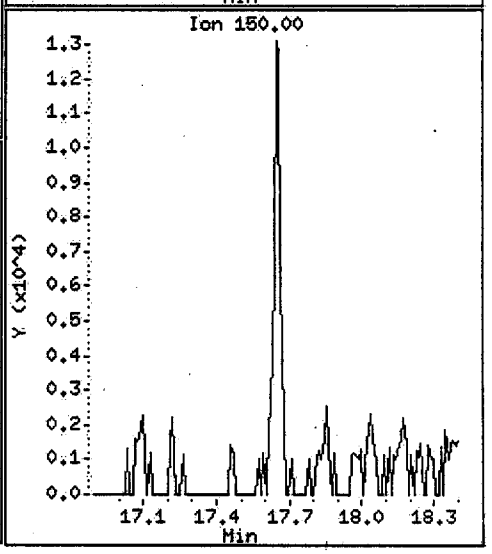












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

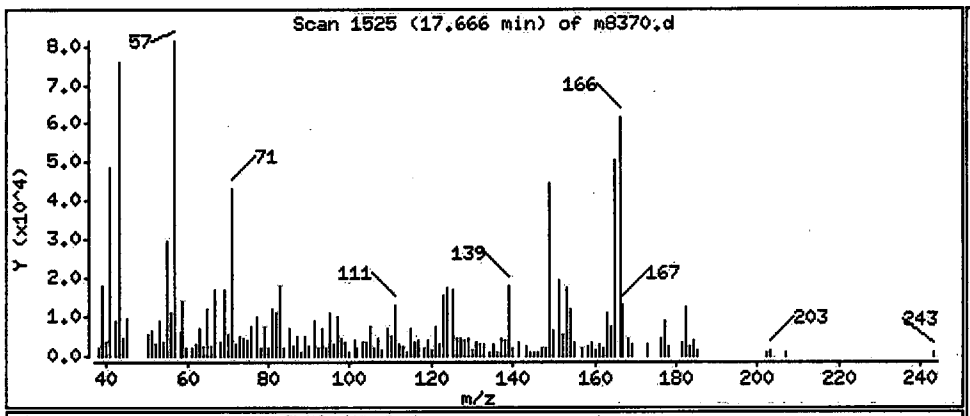
Operator: dce

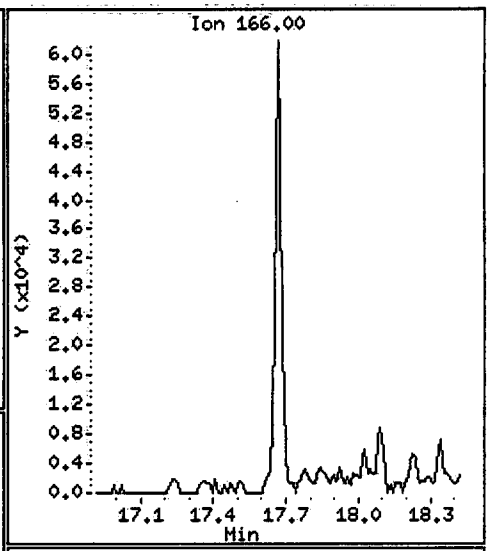
Column phase: ZB-5

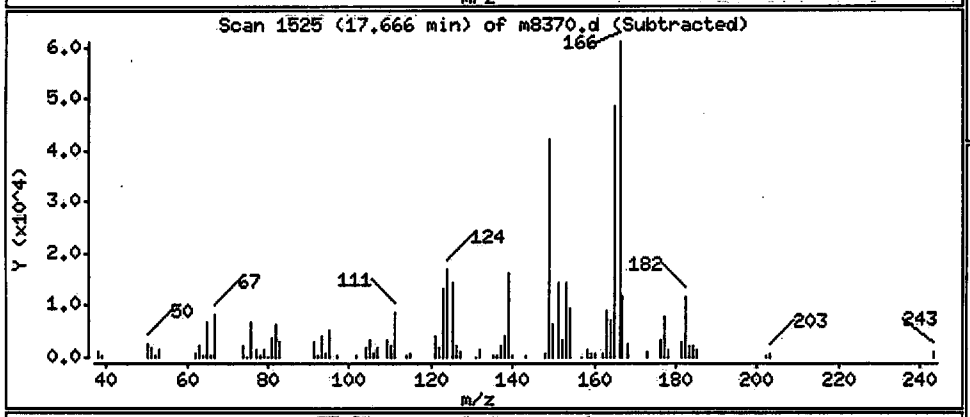
Column diameter: 0.25

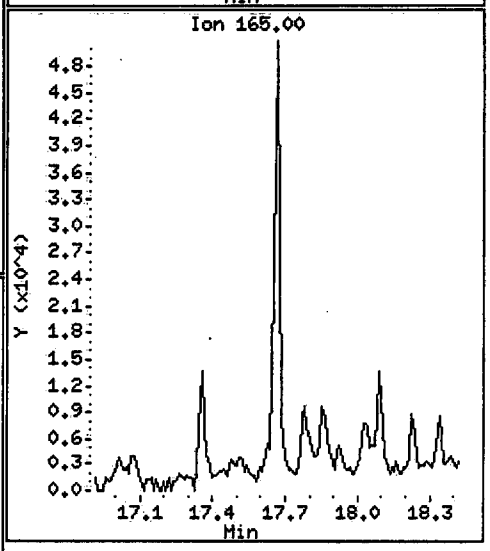
55 Fluorene

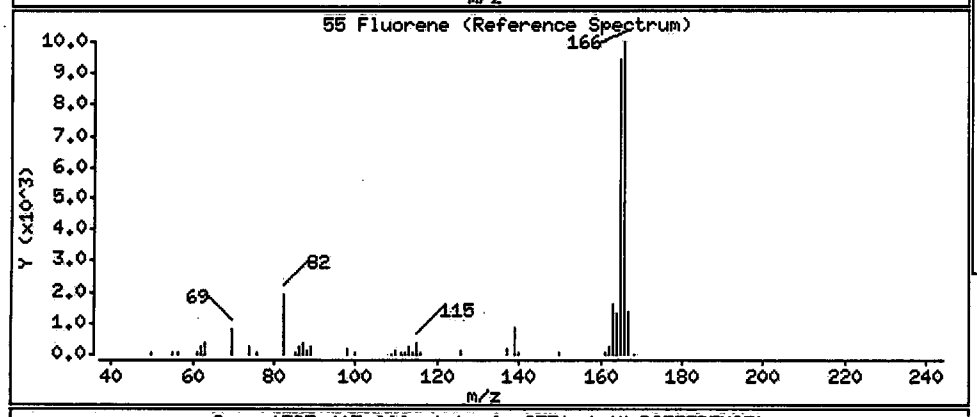
Concentration: 296 ug/Kg

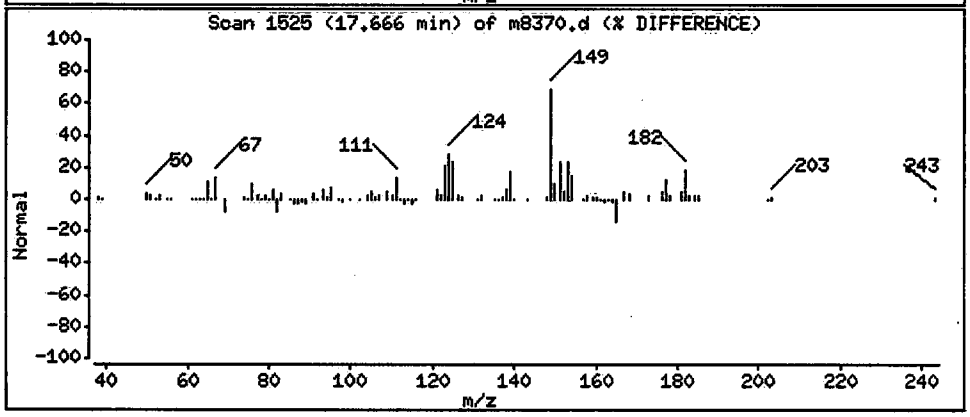












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

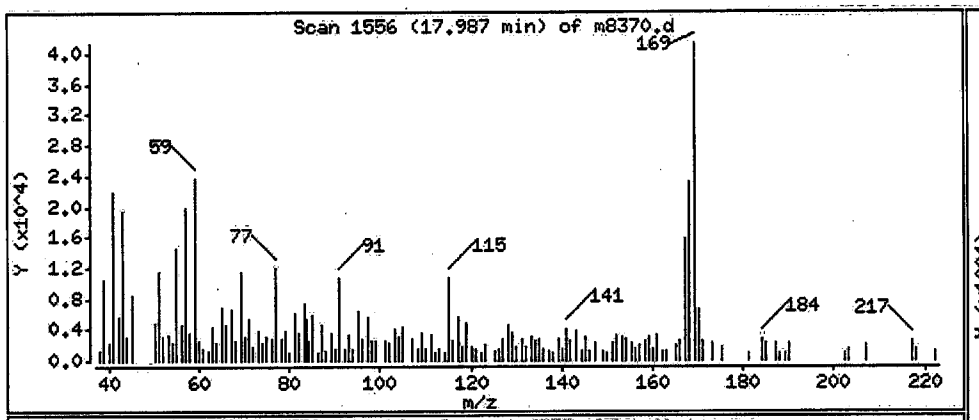
Operator: dce

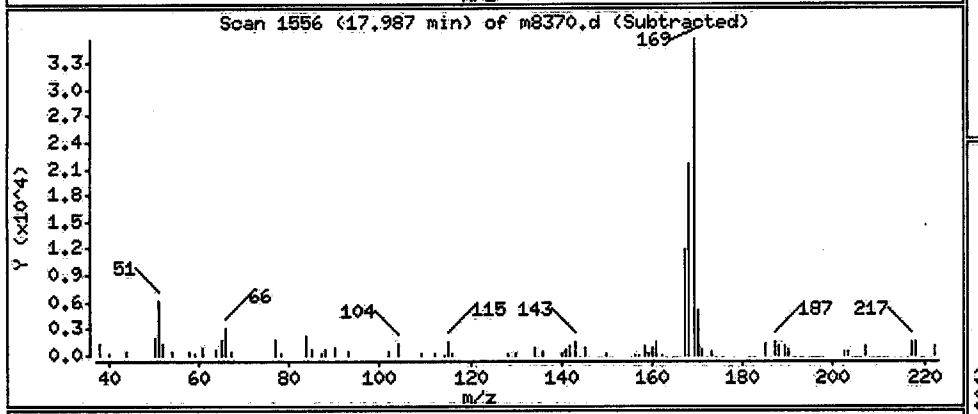
Column phase: ZB-5

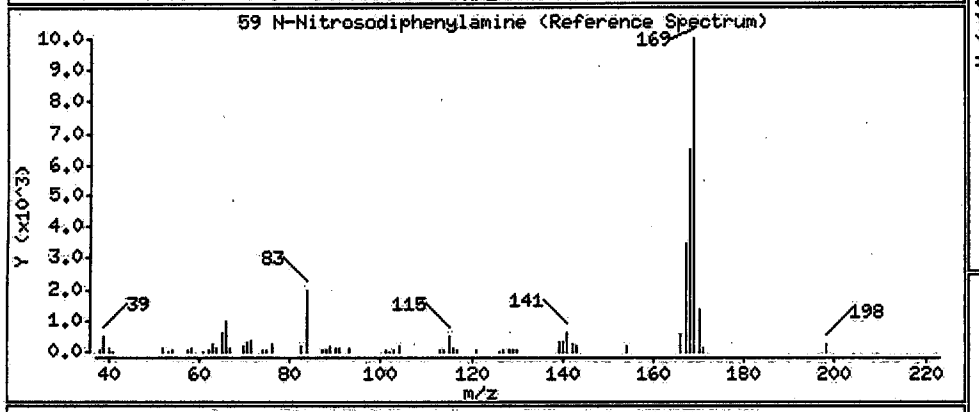
Column diameter: 0.25

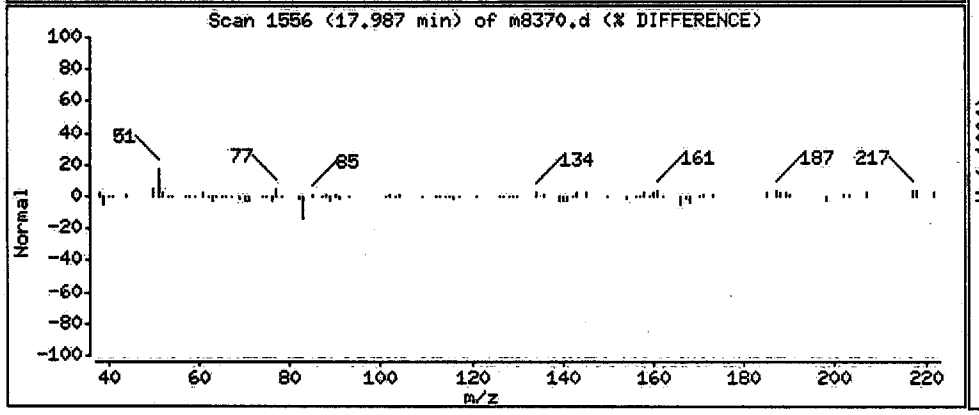
59 N-Nitrosodiphenylamine

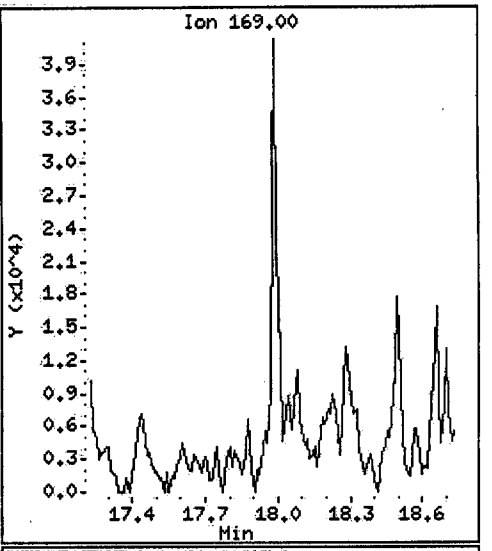
Concentration: 123 ug/Kg

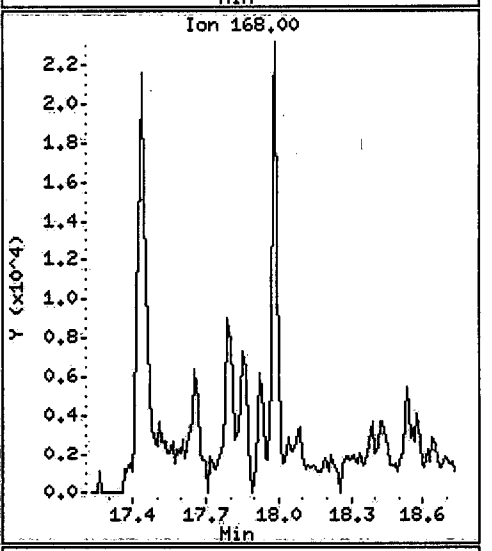


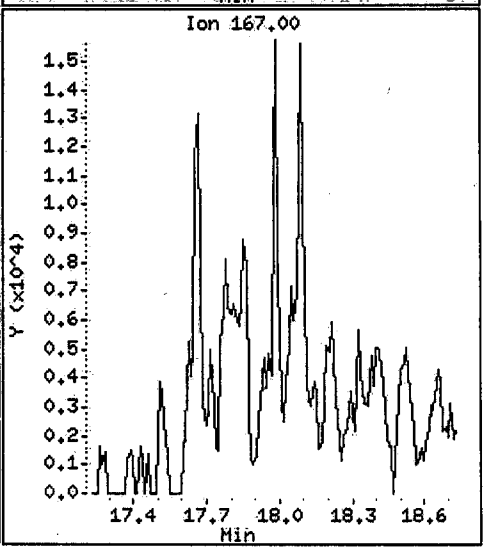












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

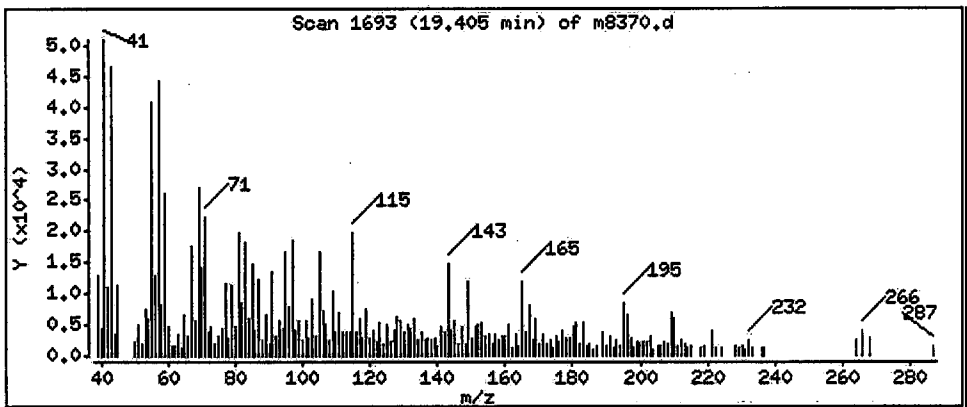
Operator: dce

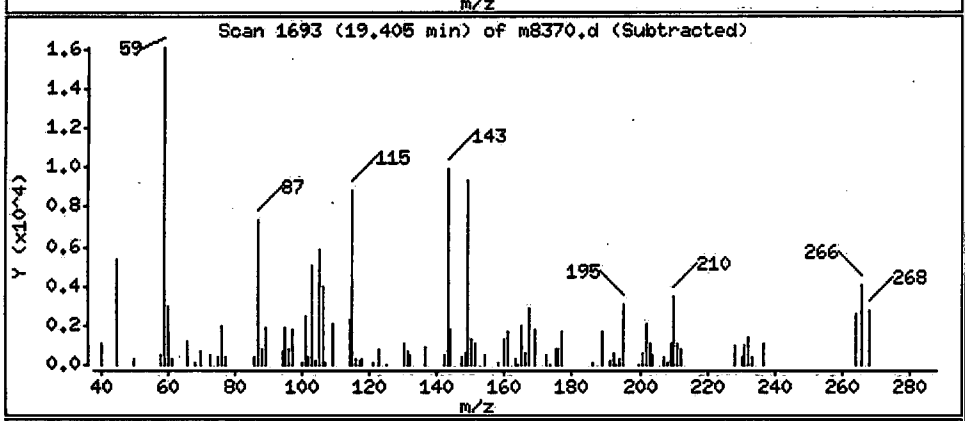
Column phase: ZB-5

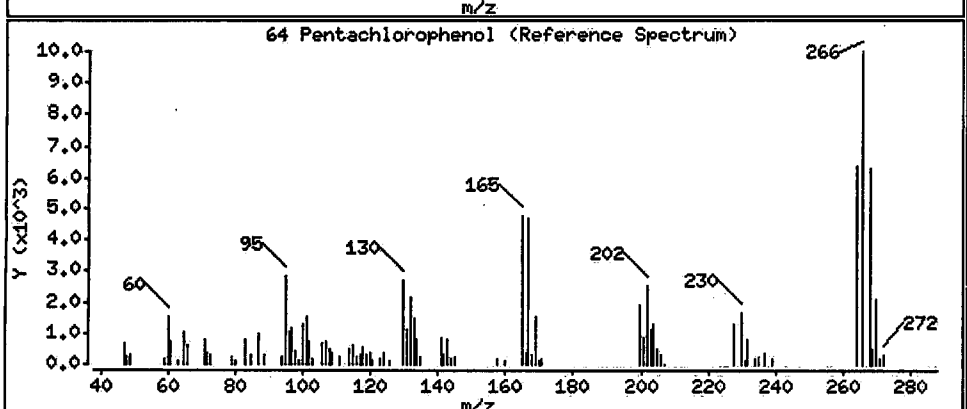
Column diameter: 0.25

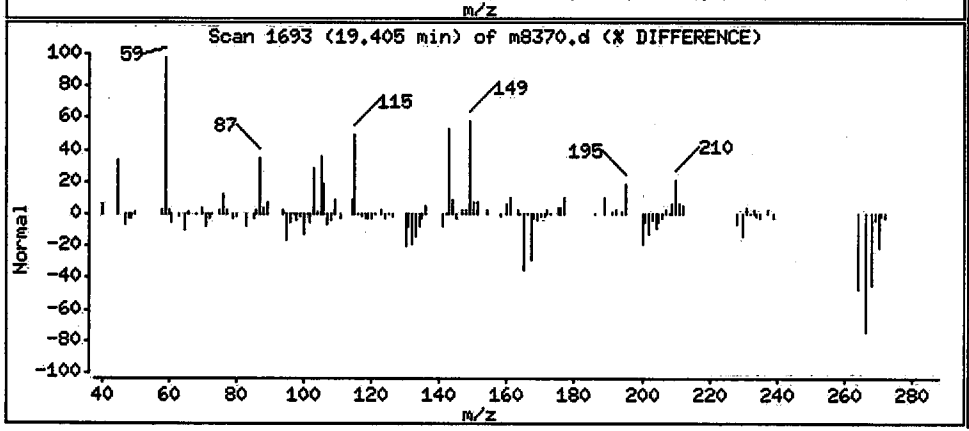
64 Pentachlorophenol

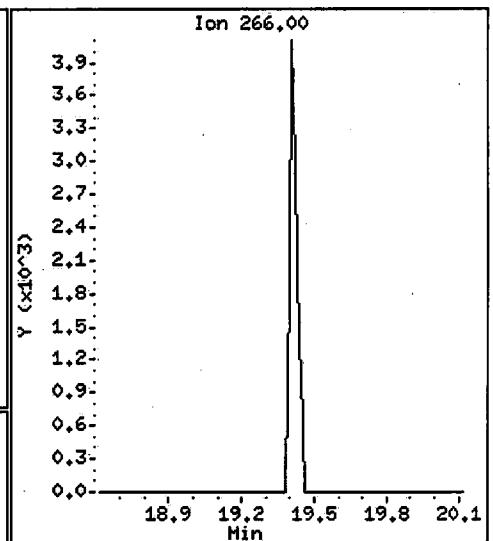
Concentration: 116 ug/Kg

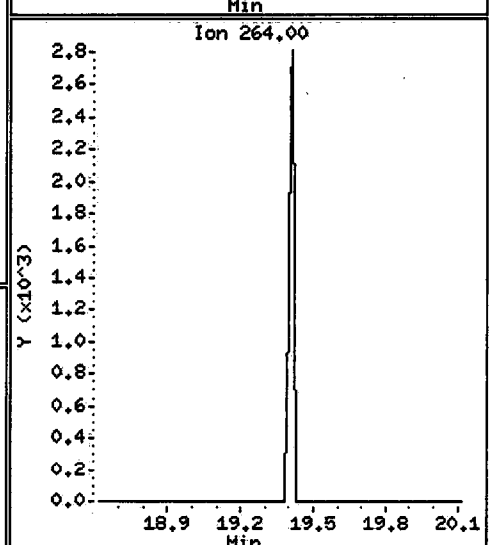


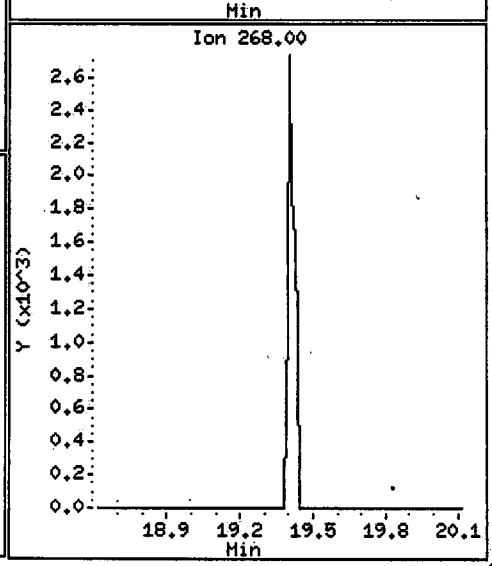












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

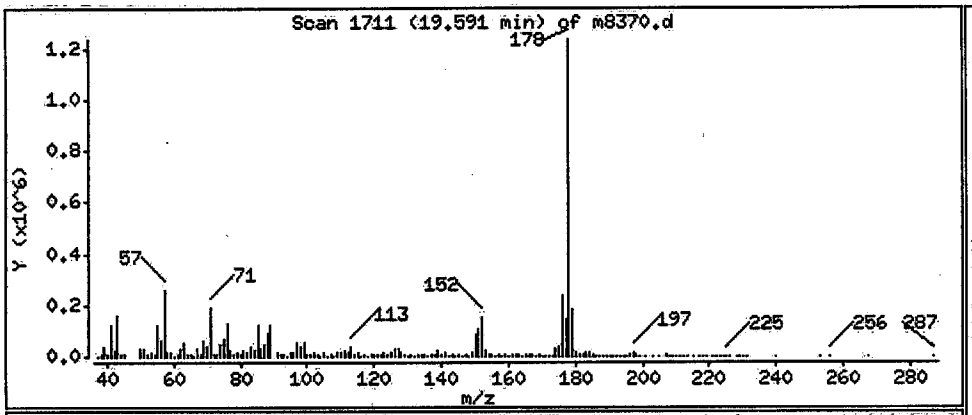
Operator: dce

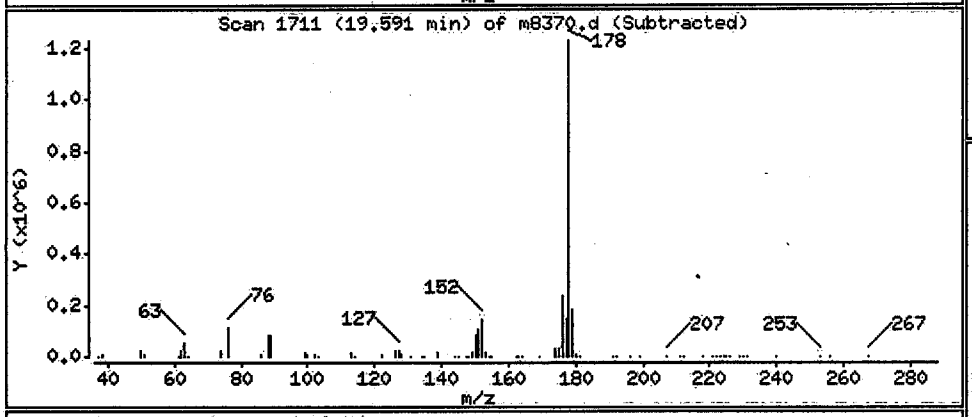
Column phase: ZB-5

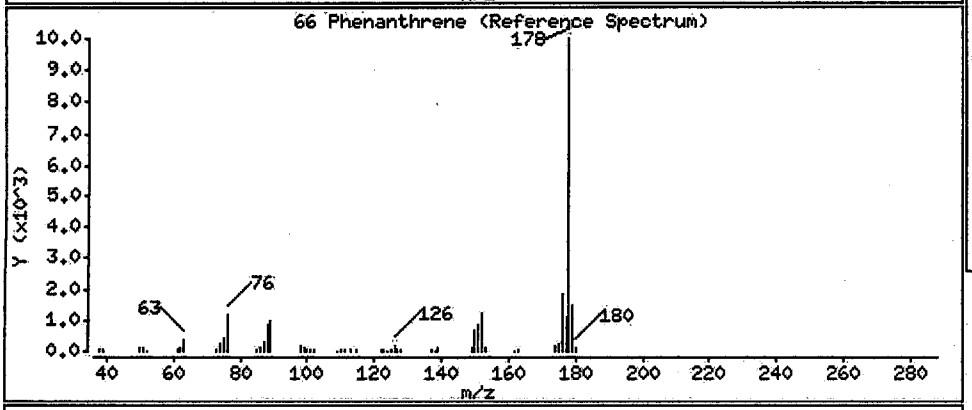
Column diameter: 0.25

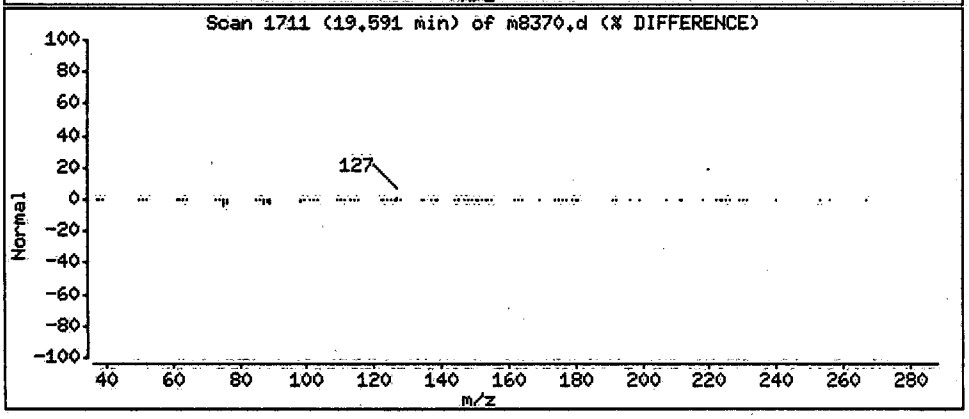
66 Phenanthrene

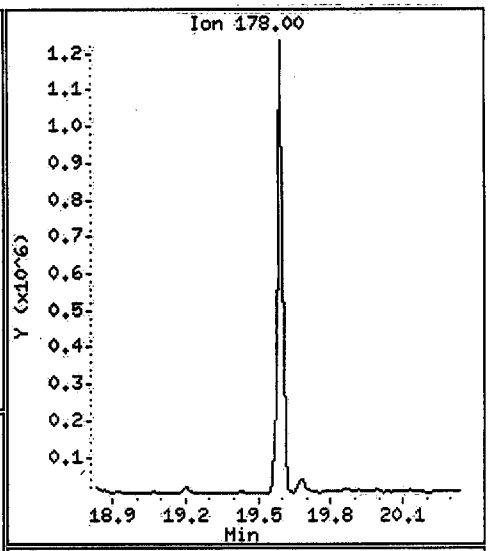
Concentration: 2130 ug/Kg

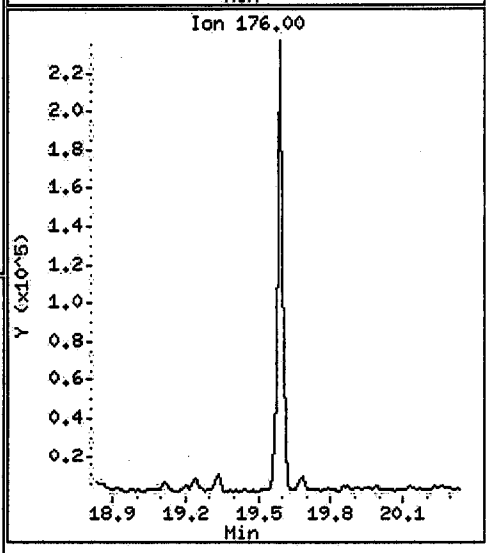












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

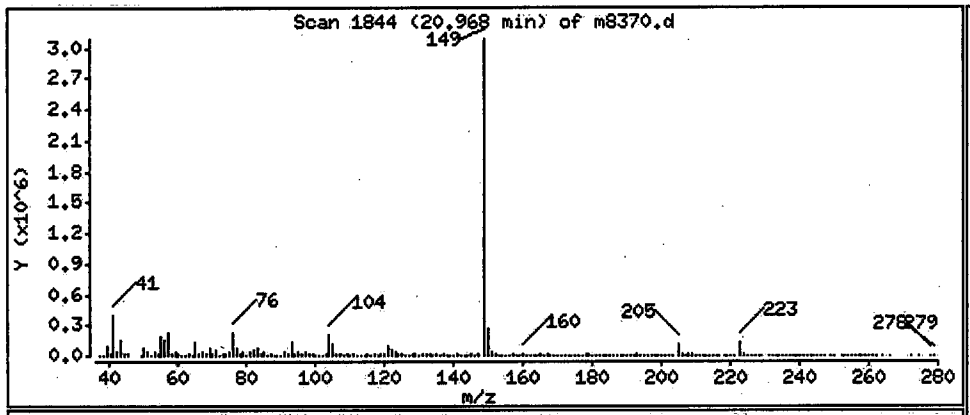
Operator: dce

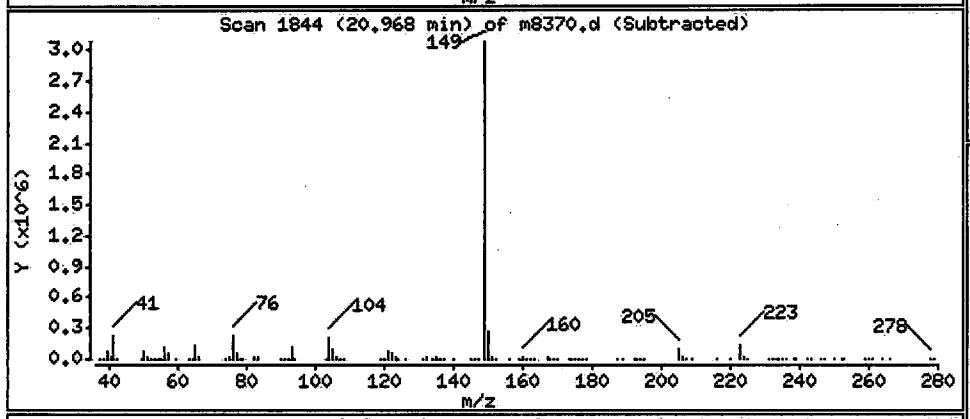
Column phase: ZB-5

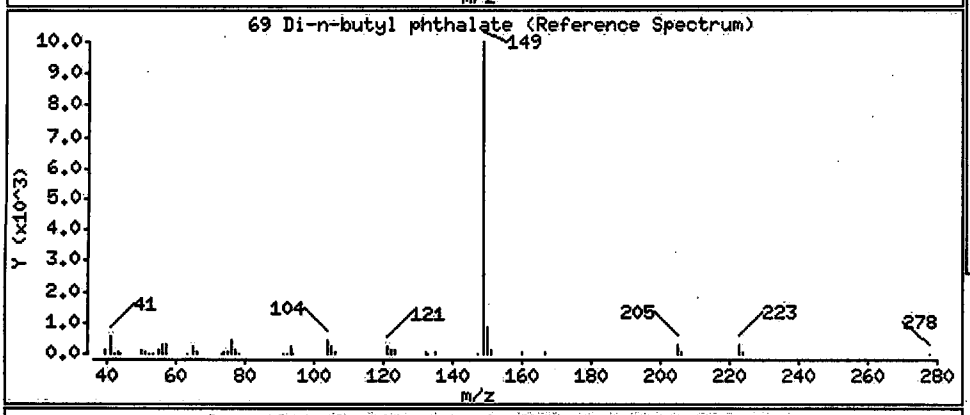
Column diameter: 0.25

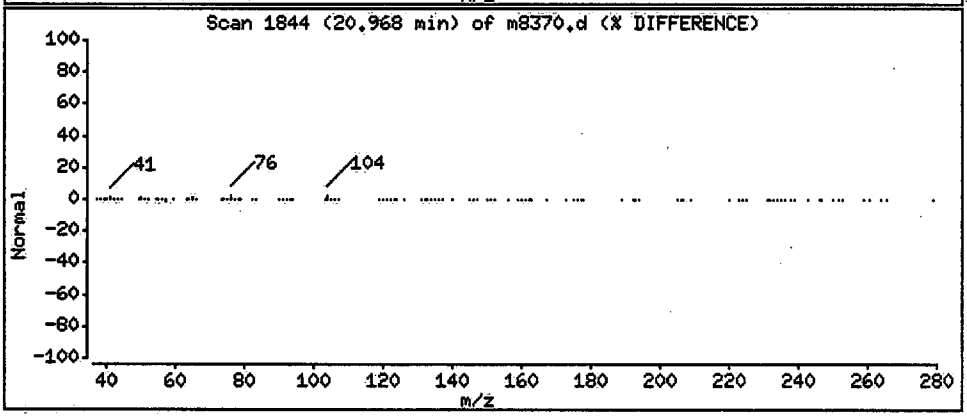
69 Di-n-butyl phthalate

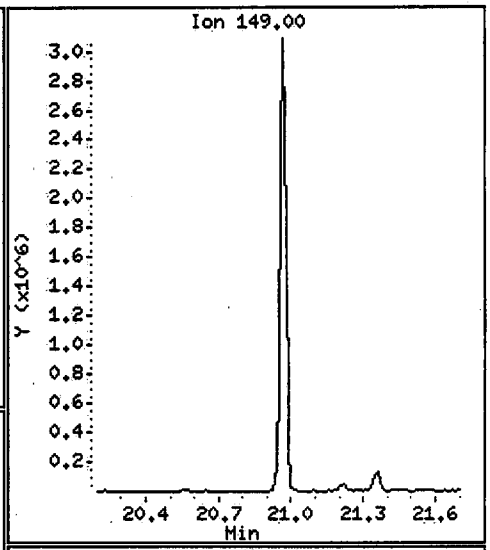
Concentration: 4380 ug/Kg

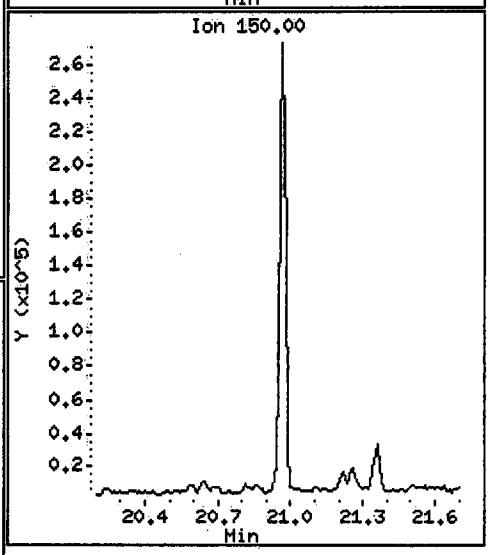












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

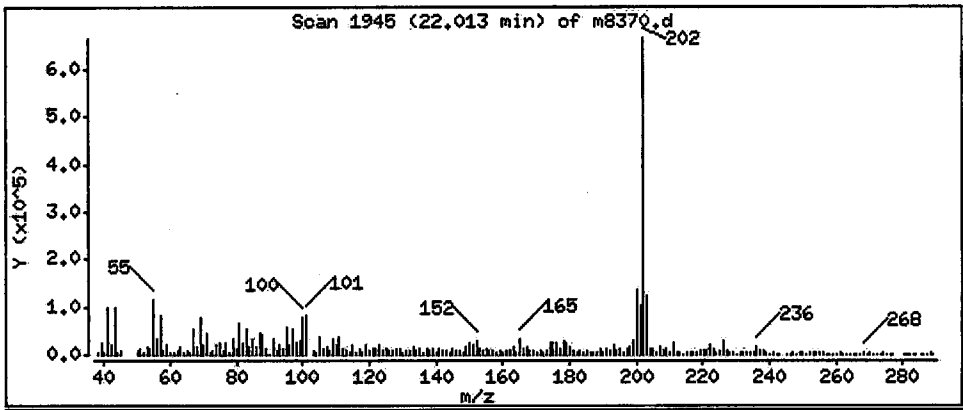
Operator: doe

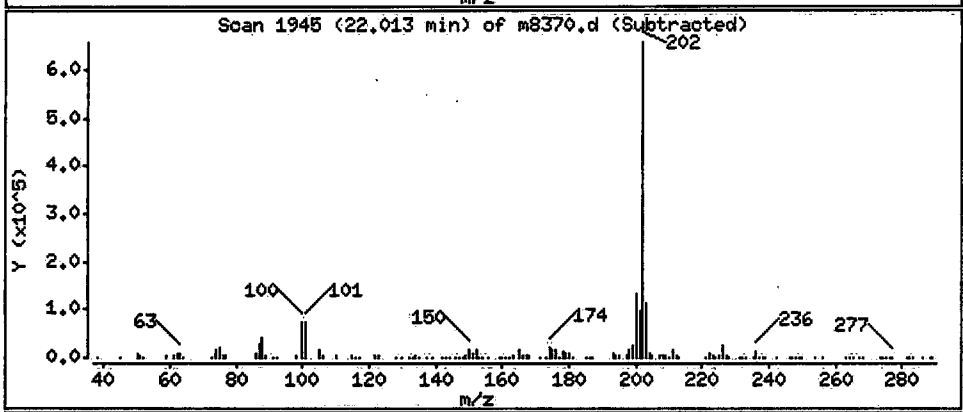
Column phase: ZB-5

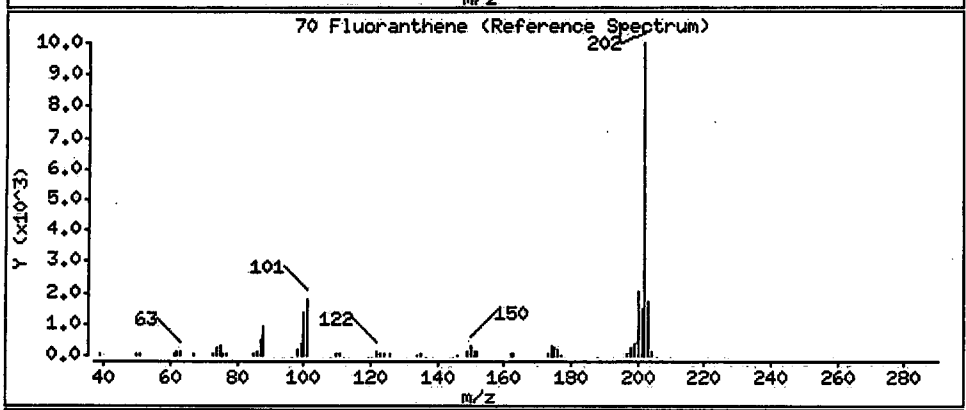
Column diameter: 0.25

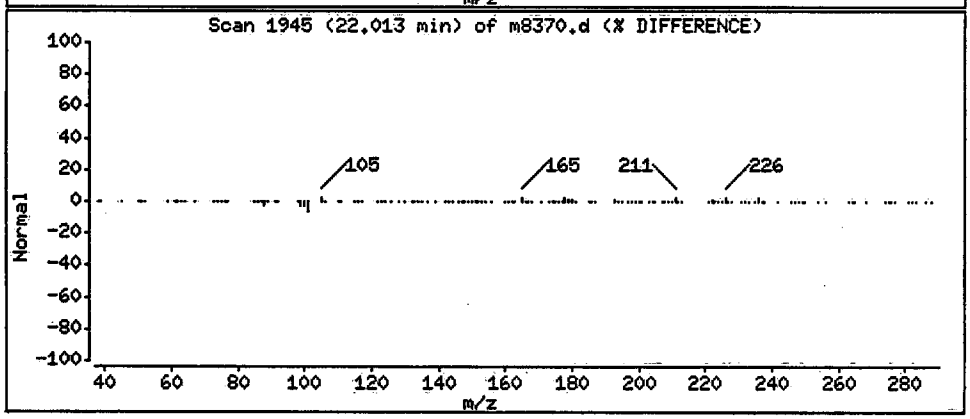
70 Fluoranthene

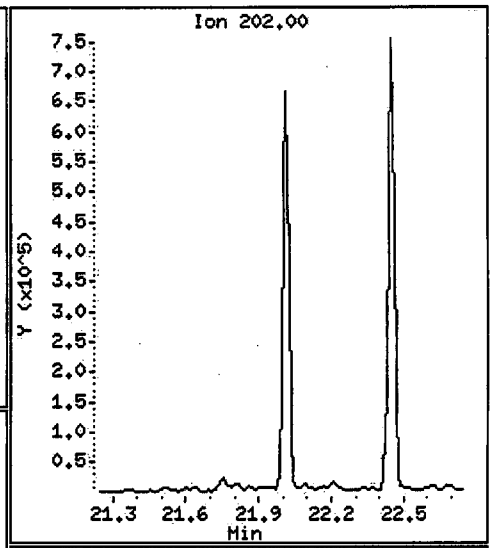
Concentration: 1010 ug/Kg

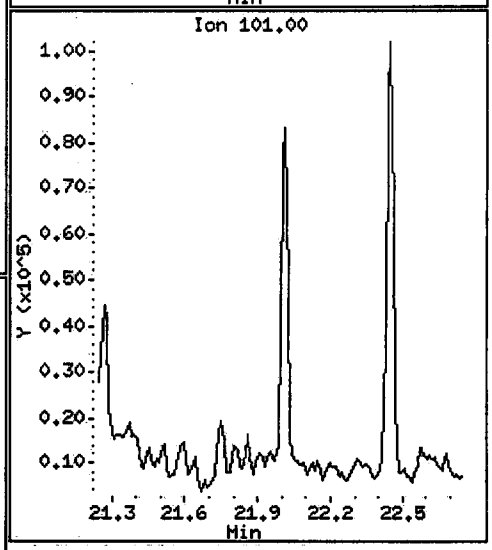












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

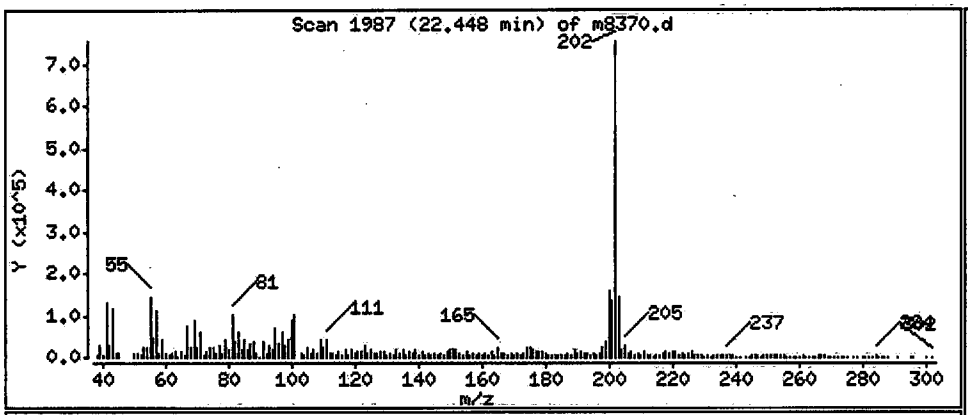
Operator: dce

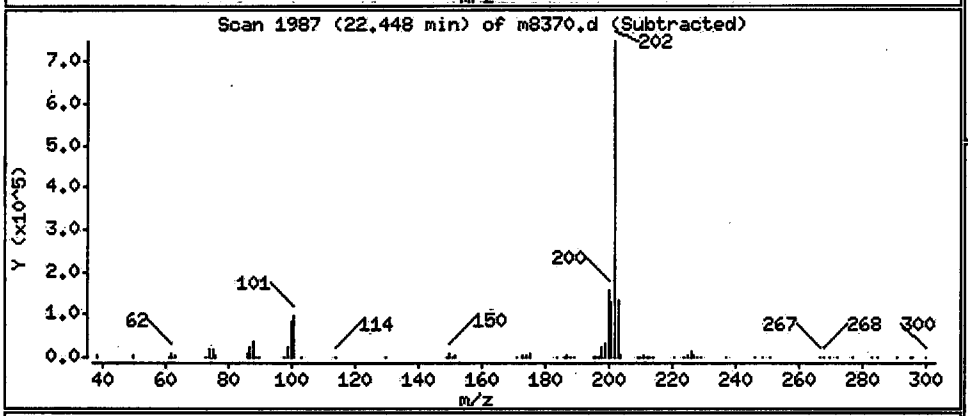
Column phase: ZB-5

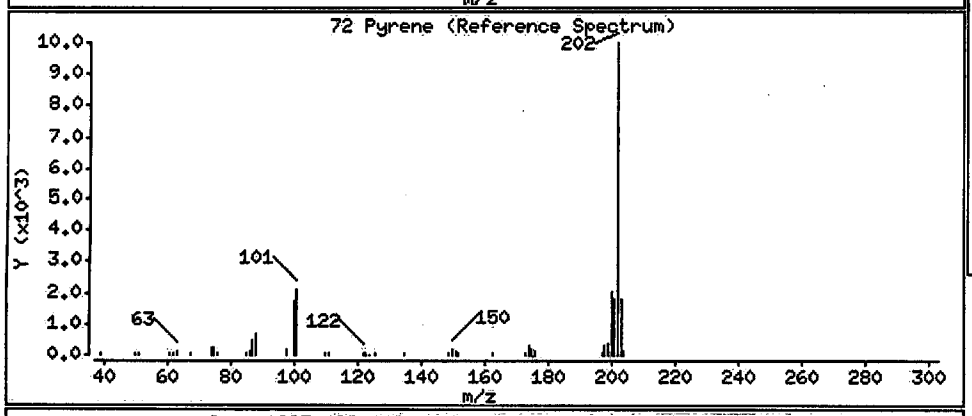
Column diameter: 0.25

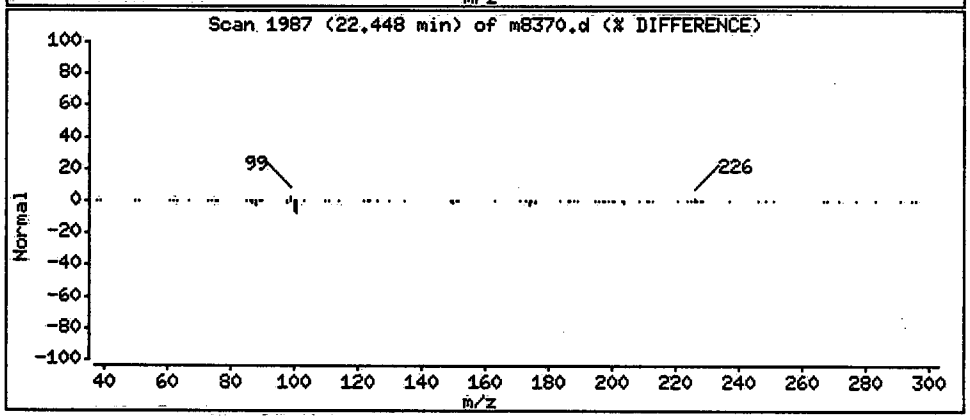
72 Pyrene

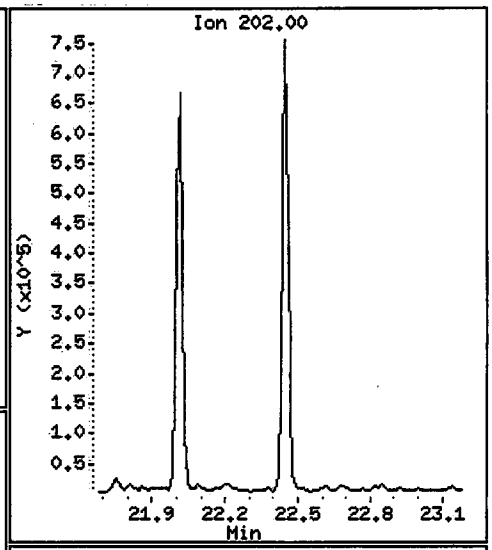
Concentration: 634 ug/Kg

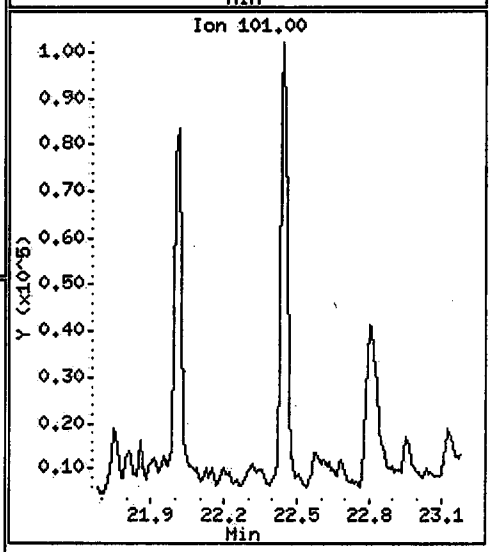












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

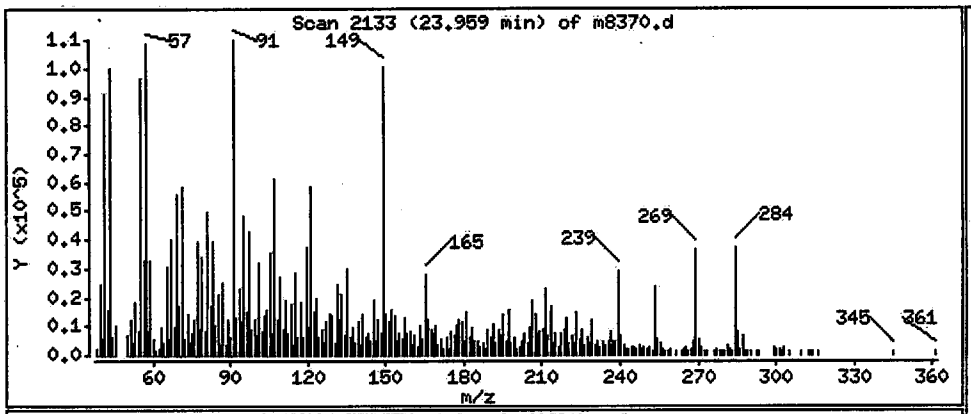
Operator: dce

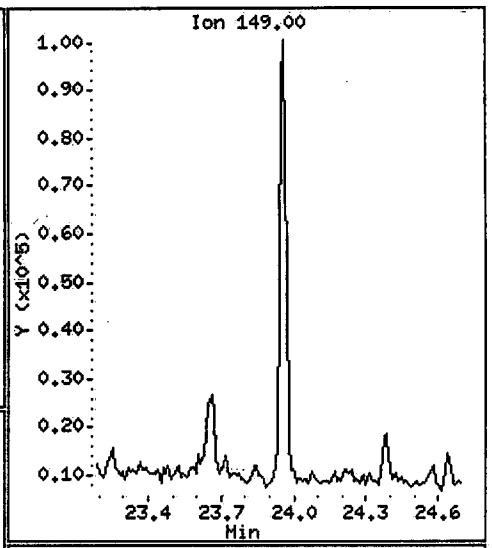
Column phase: ZB-5

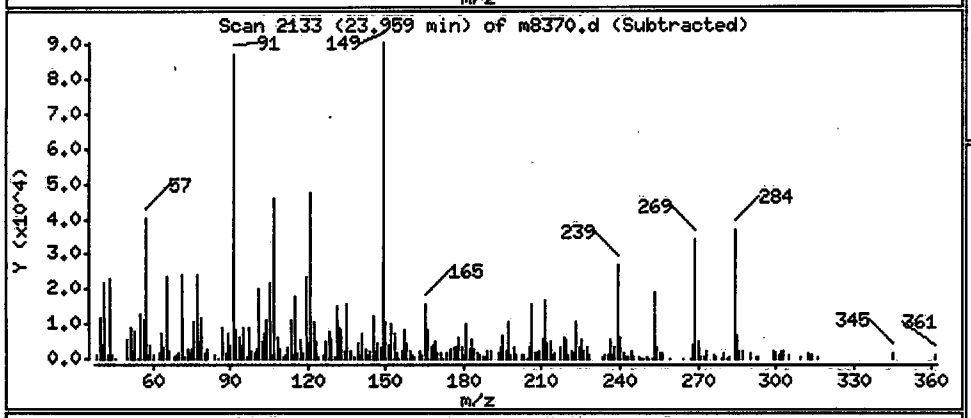
Column diameter: 0.25

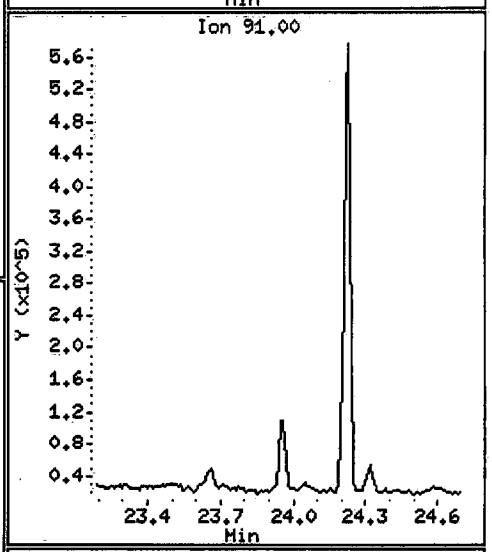
74 Butyl benzyl phthalate

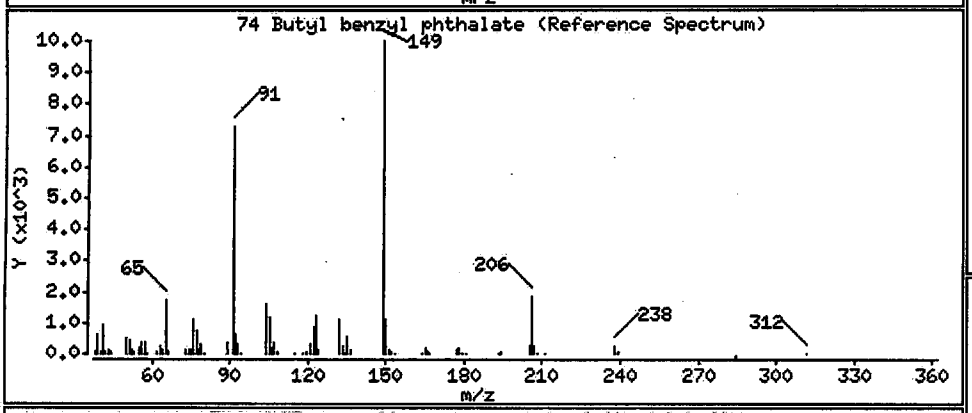
Concentration: 182 ug/Kg

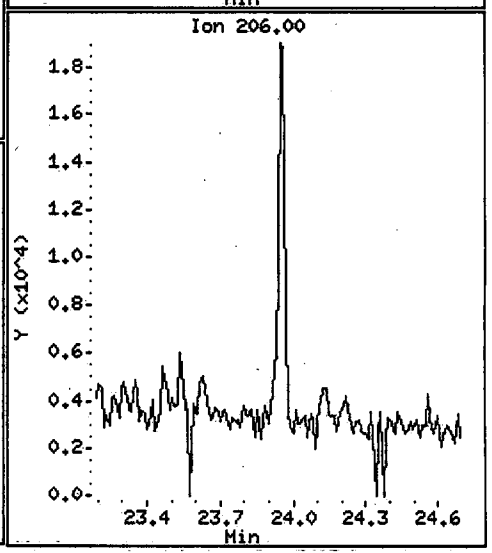


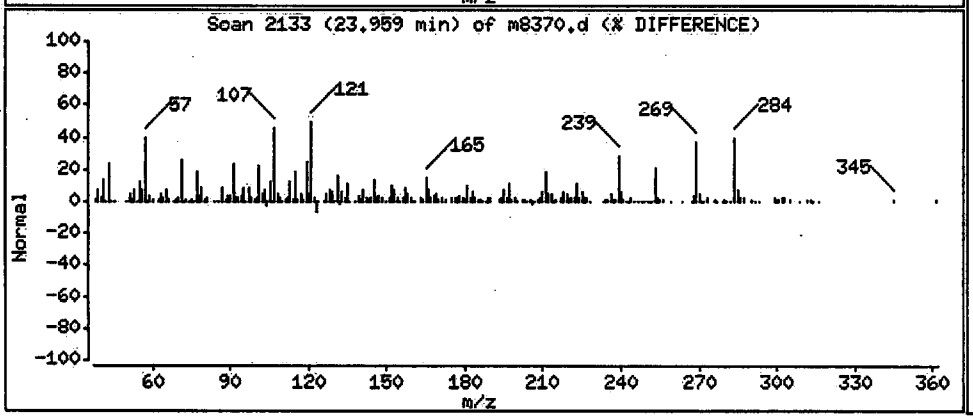












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

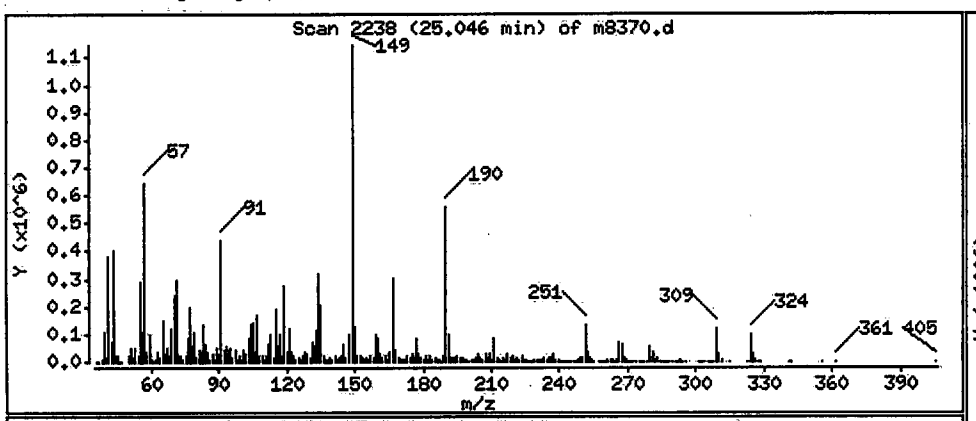
Operator: doe

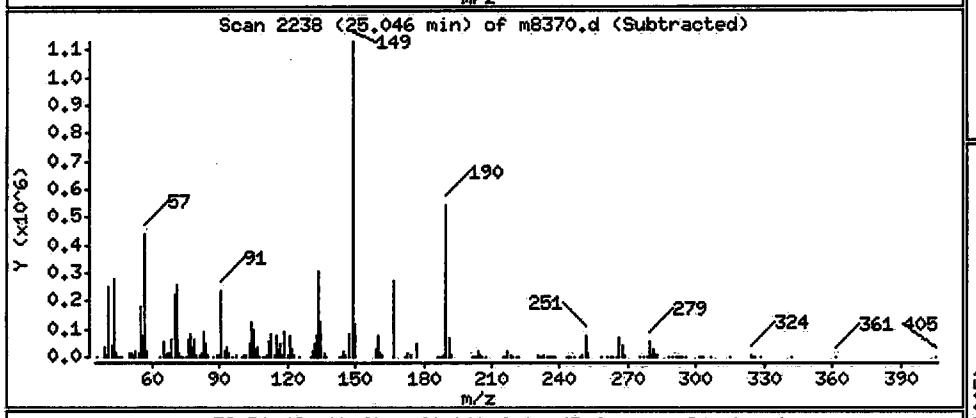
Column phase: ZB-5

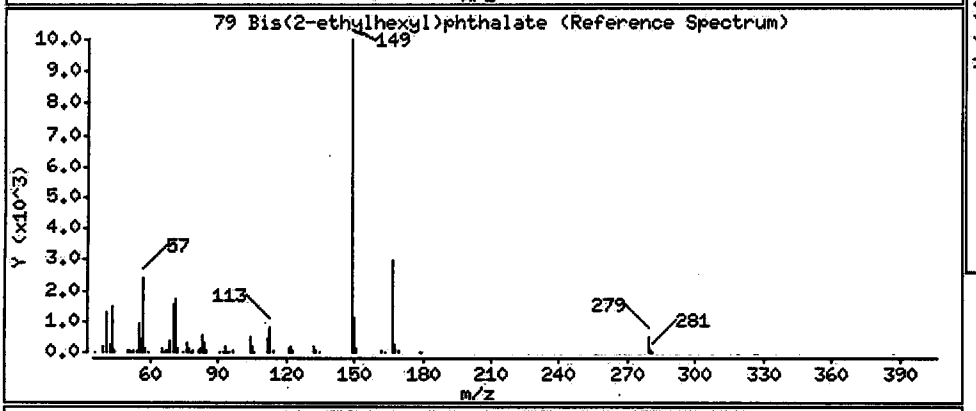
Column diameter: 0.25

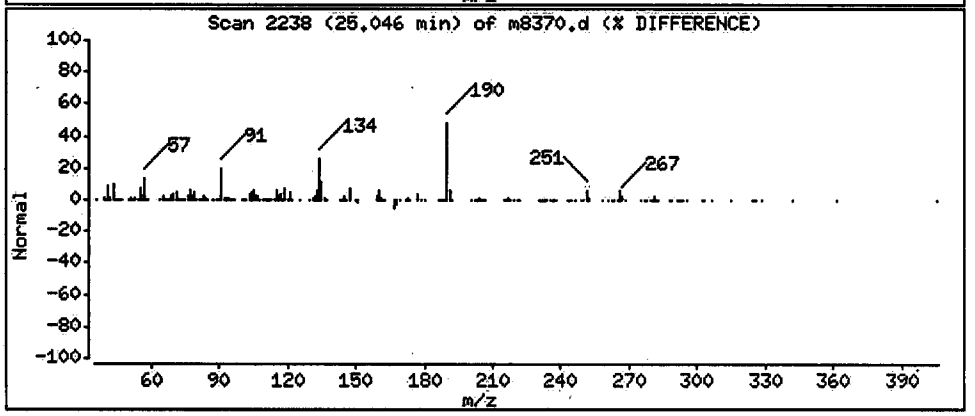
79 Bis(2-ethylhexyl)phthalate

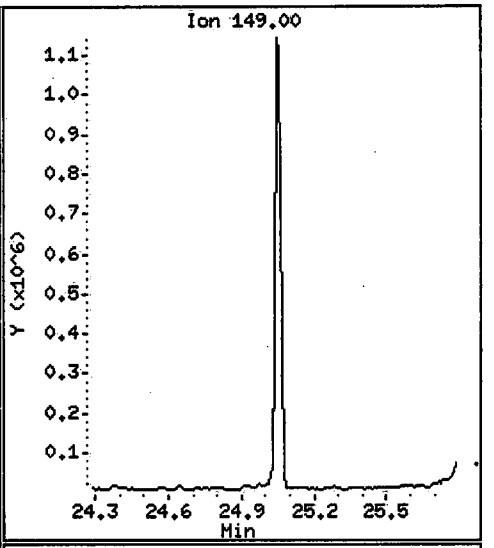
Concentration: 1240 ug/Kg

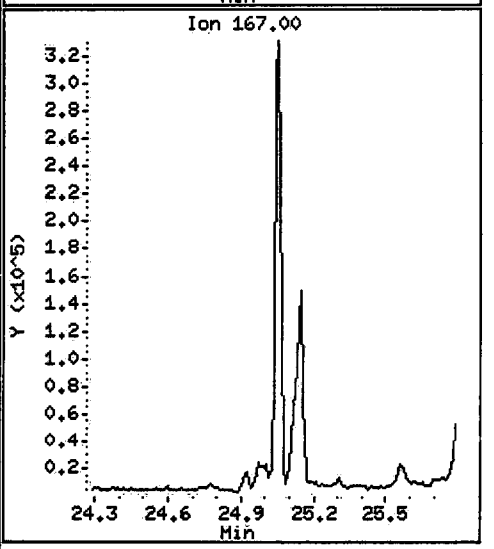












Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

Volume Injected (uL): 2.0

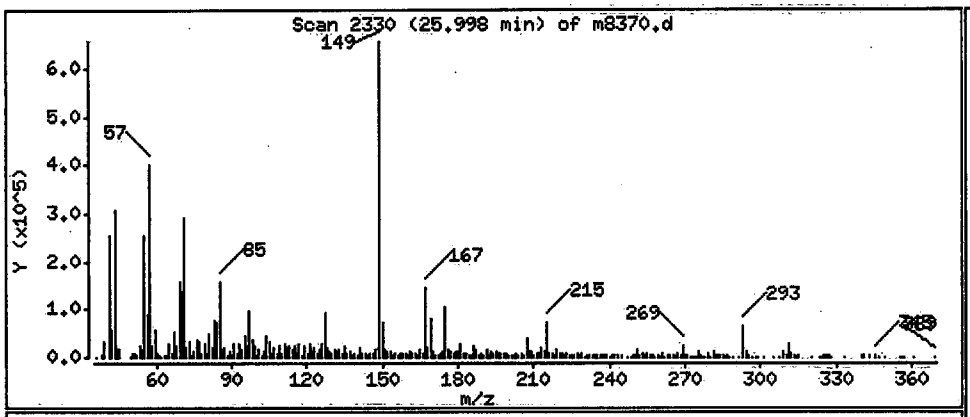
Operator: dce

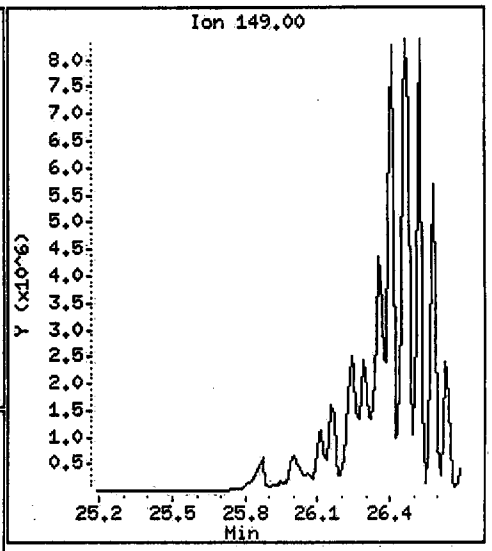
Column phase: ZB-5

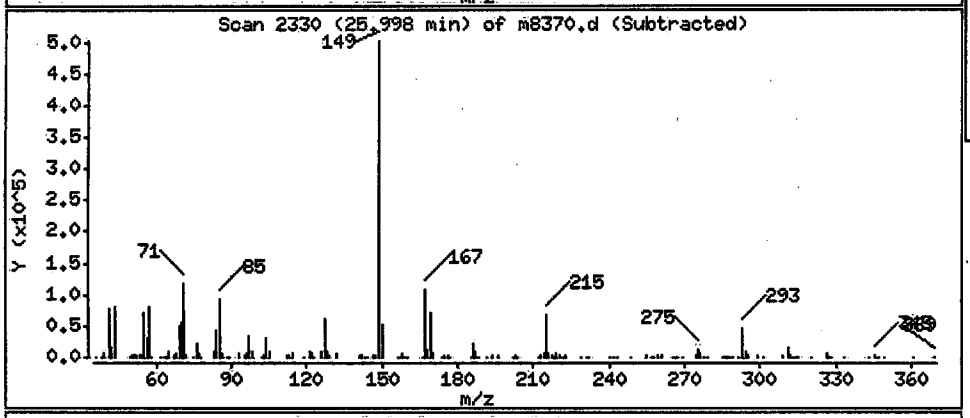
Column diameter: 0.25

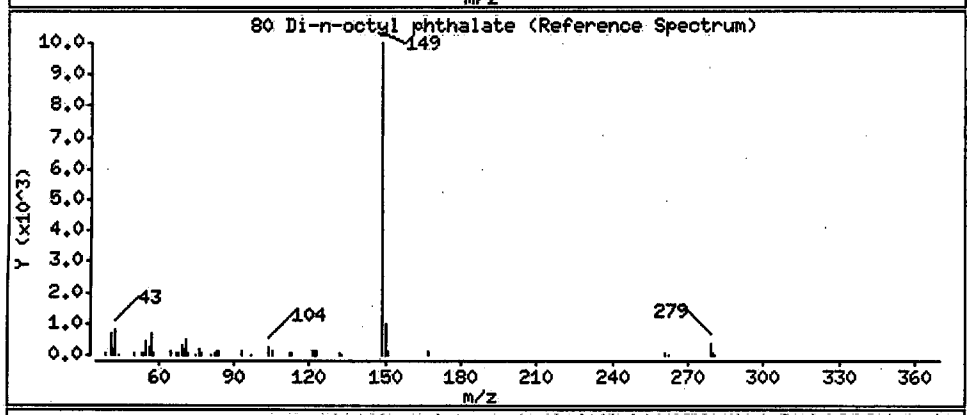
80 Di-n-octyl phthalate

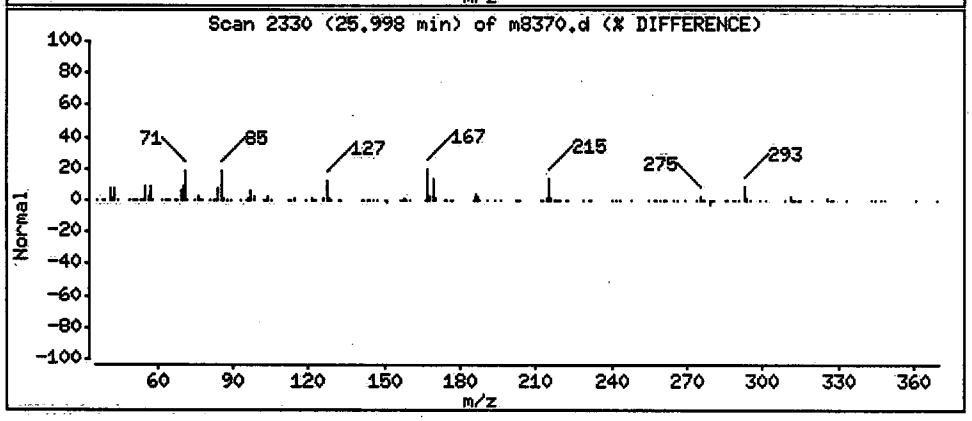
Concentration: 792 ug/Kg











Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

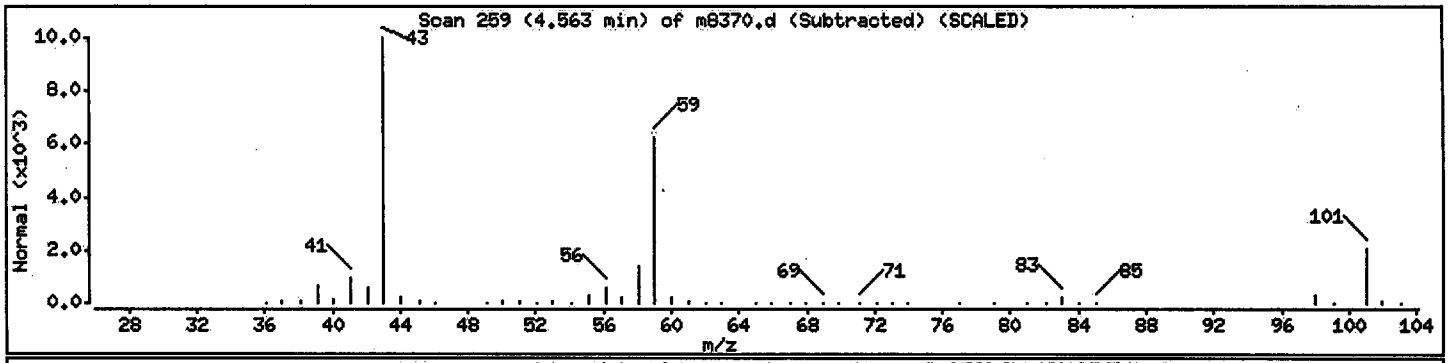
Volume Injected (uL): 2.0

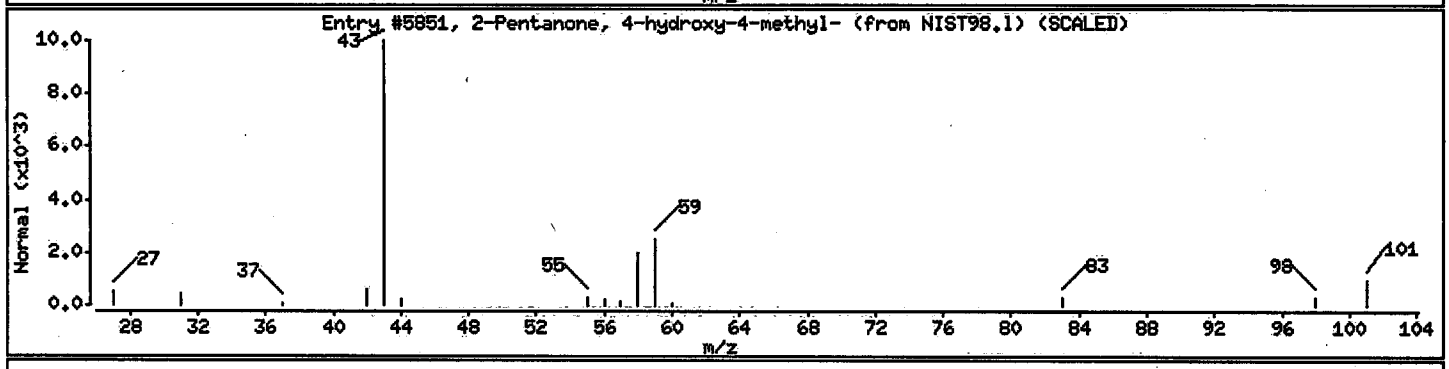
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	5851	56	C6H12O2	116





Data File: /var/chem/molly.i/0307184mlr.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

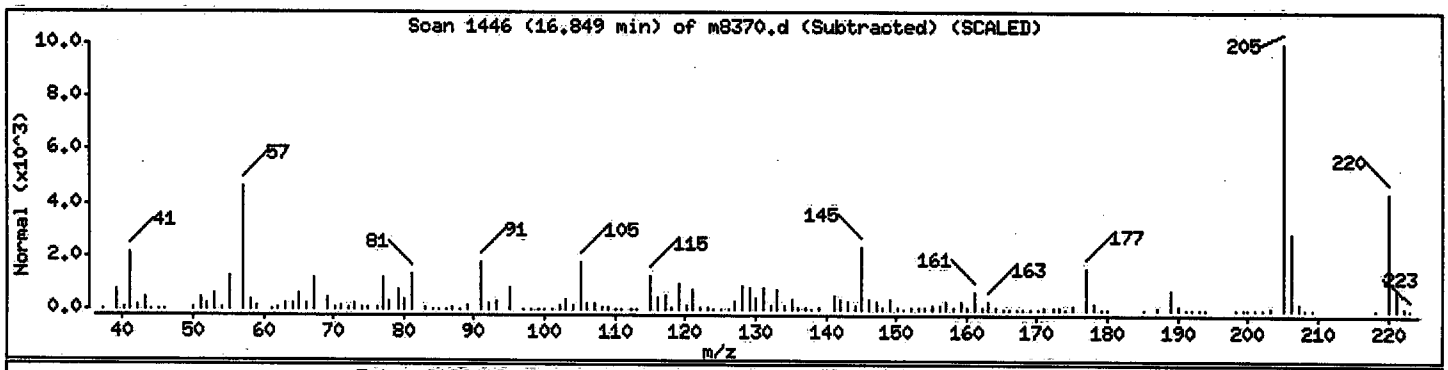
Volume Injected (uL): 2.0

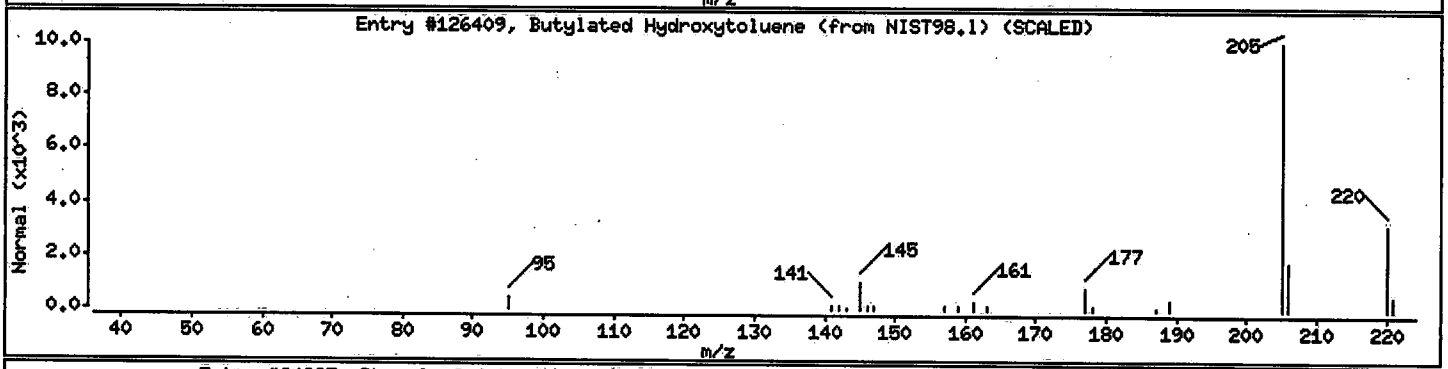
Operator: dce

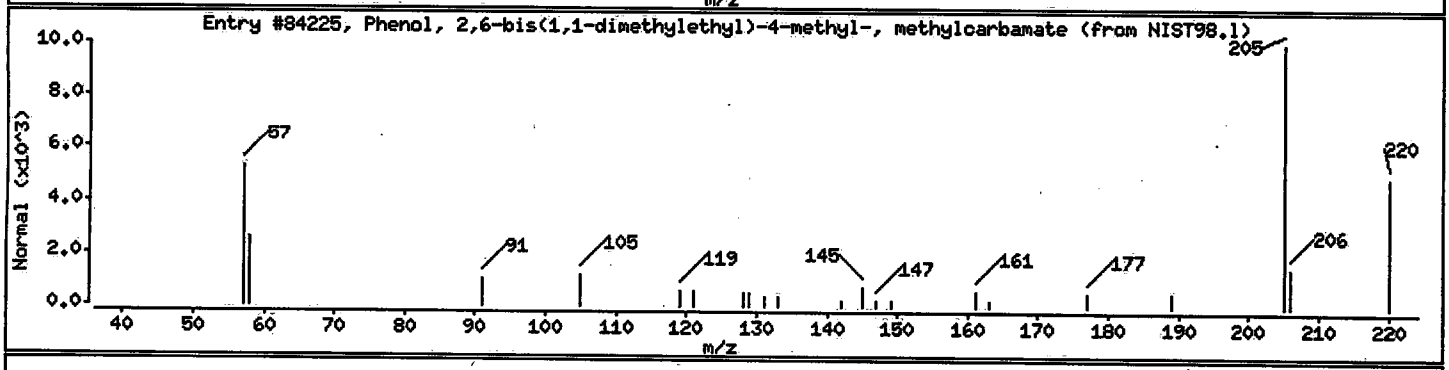
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butylated Hydroxytoluene	128-37-0	NIST98.1	126409	91	C15H24O	220
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met	1918-11-2	NIST98.1	84225	72	C17H27NO2	277







Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

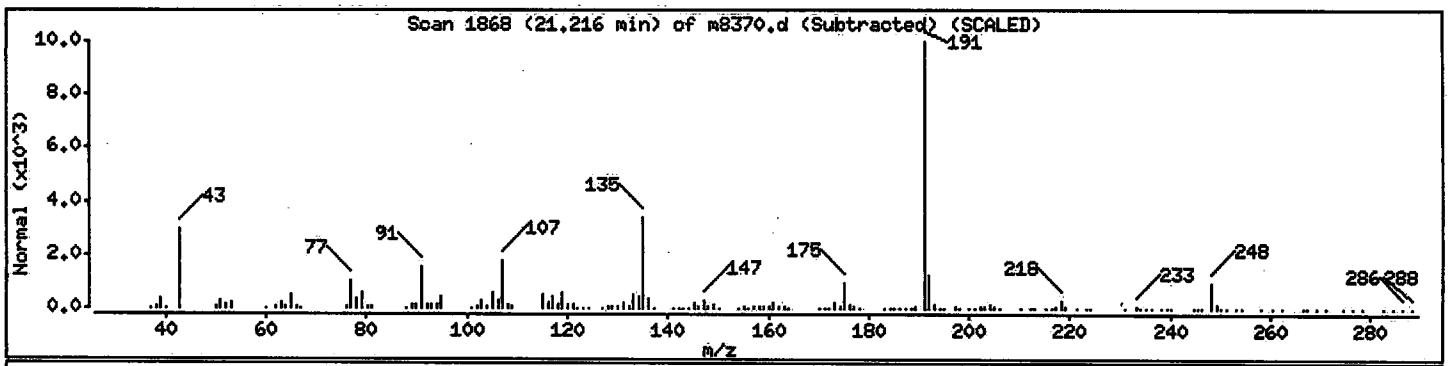
Volume Injected (uL): 2.0

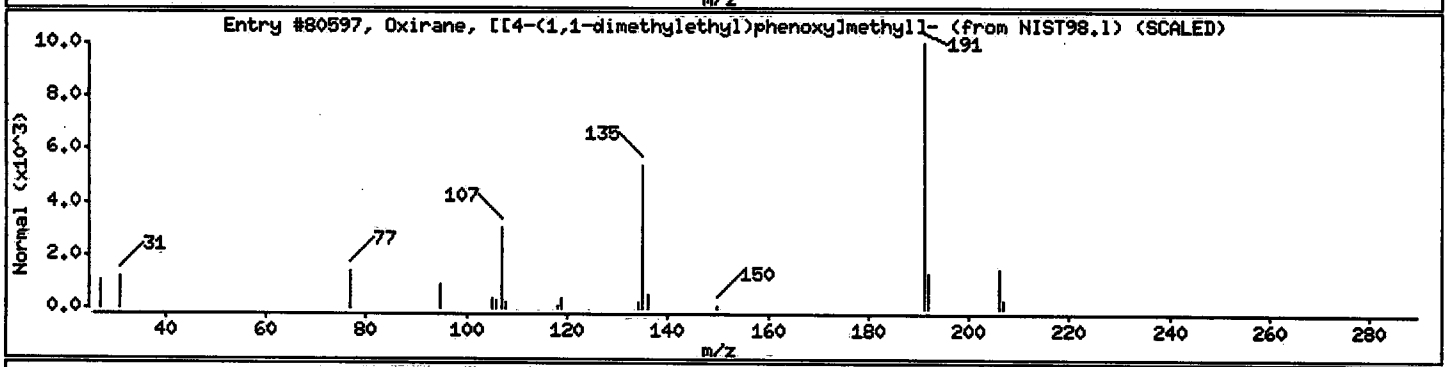
Operator: dce

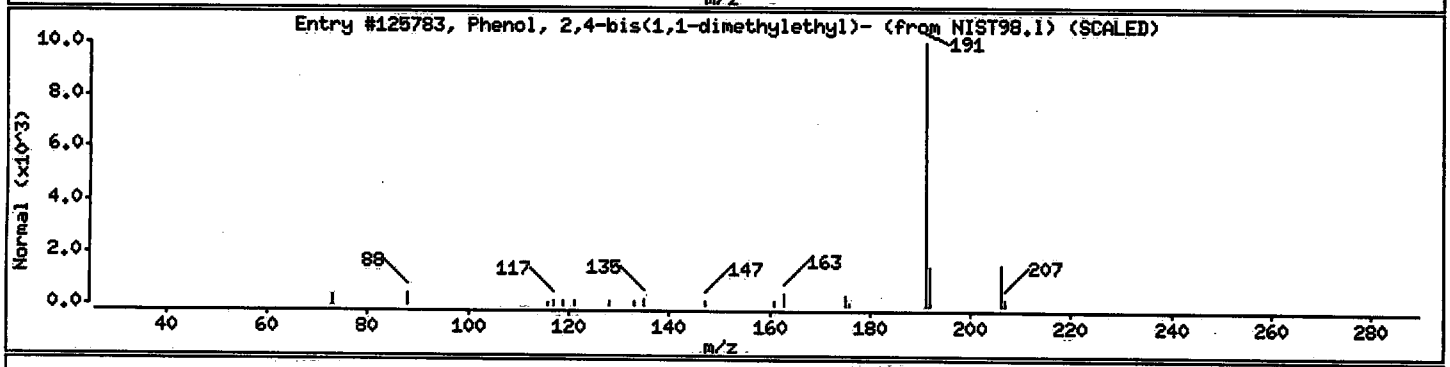
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, [[4-(1,1-dimethylethyl)phenoxy]	3101-60-8	NIST98.1	80597	50	C13H18O2	206
Phenol, 2,4-bis(1,1-dimethylethyl)-	96-76-4	NIST98.1	125783	50	C14H22O	206







Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

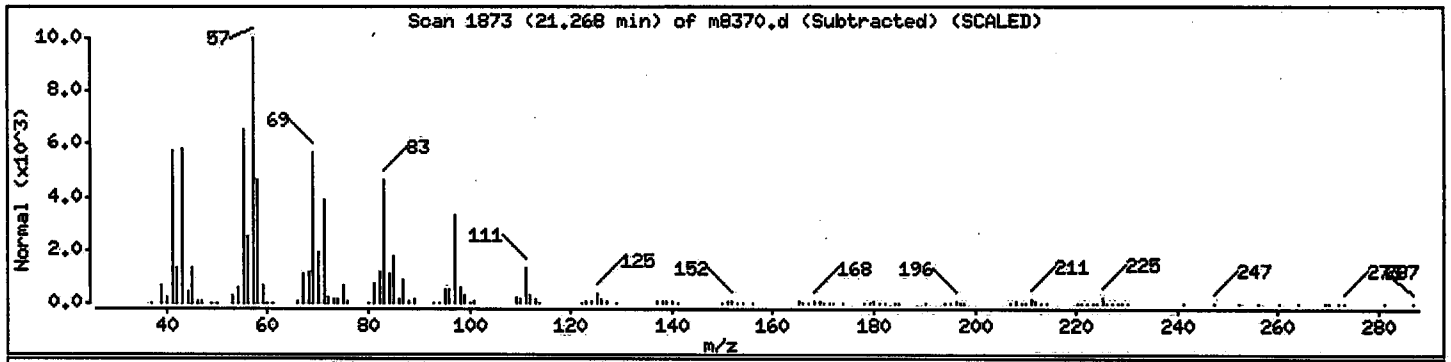
Volume Injected (uL): 2.0

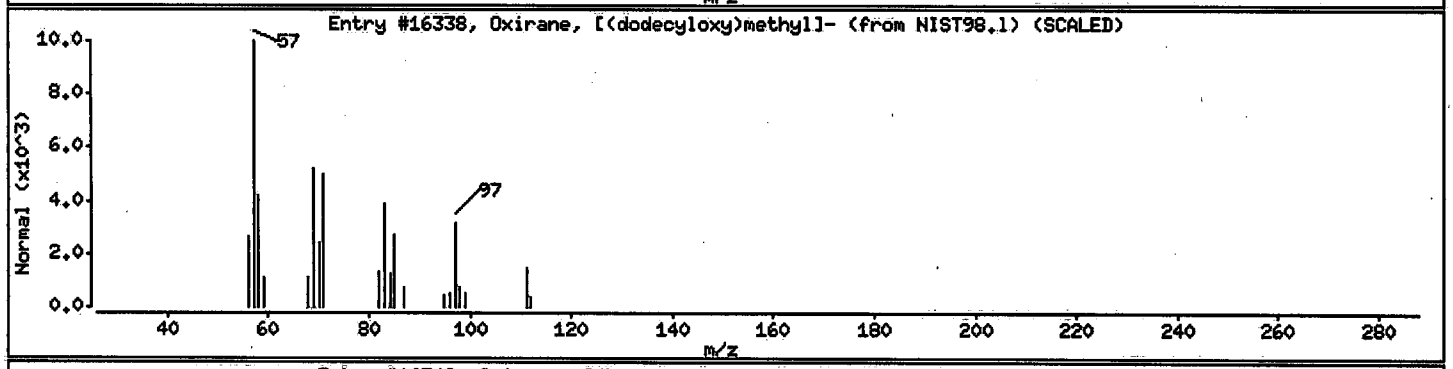
Operator: doe

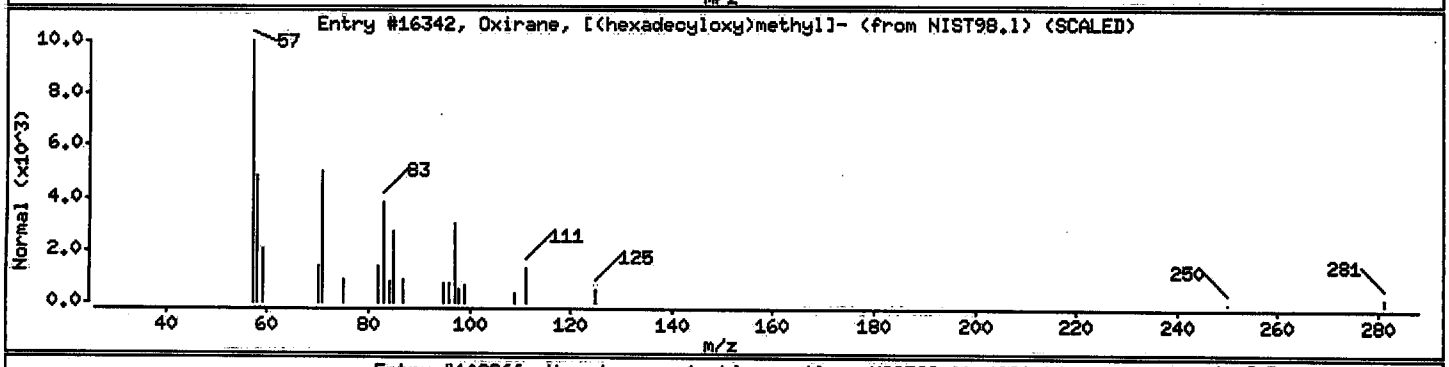
Column phase: ZB-5

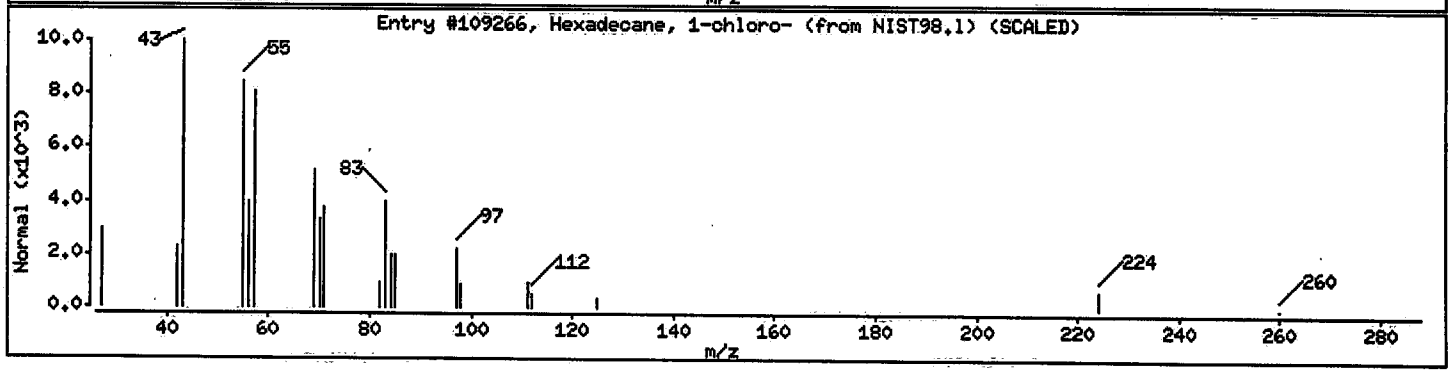
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, [(dodecyloxy)methyl]-	2461-18-9	NIST98.1	16338	68	C15H30O2	242
Oxirane, [(hexadecyloxy)methyl]-	15965-99-8	NIST98.1	16342	64	C19H38O2	298
Hexadecane, 1-chloro-	4860-03-1	NIST98.1	109266	58	C16H33Cl	260









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

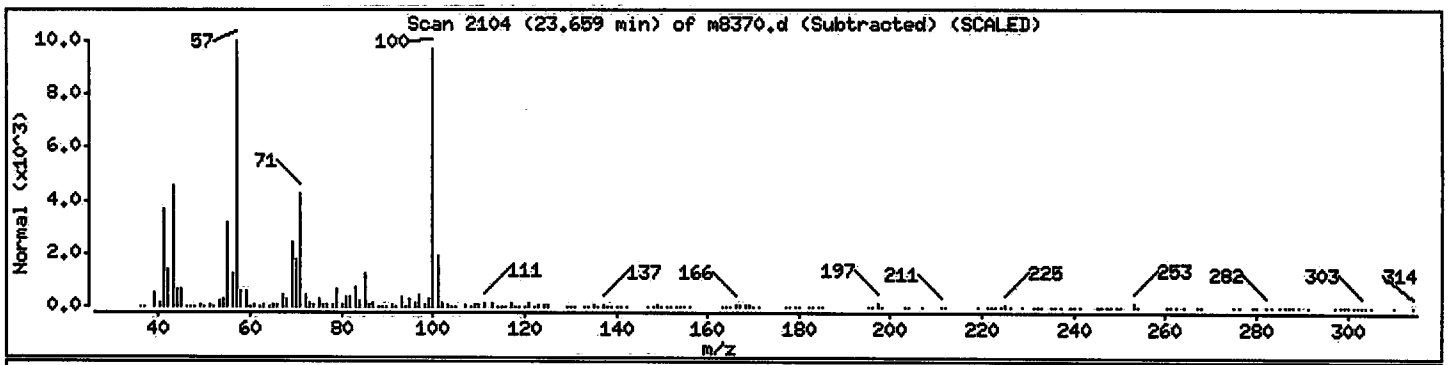
Volume Injected (uL): 2.0

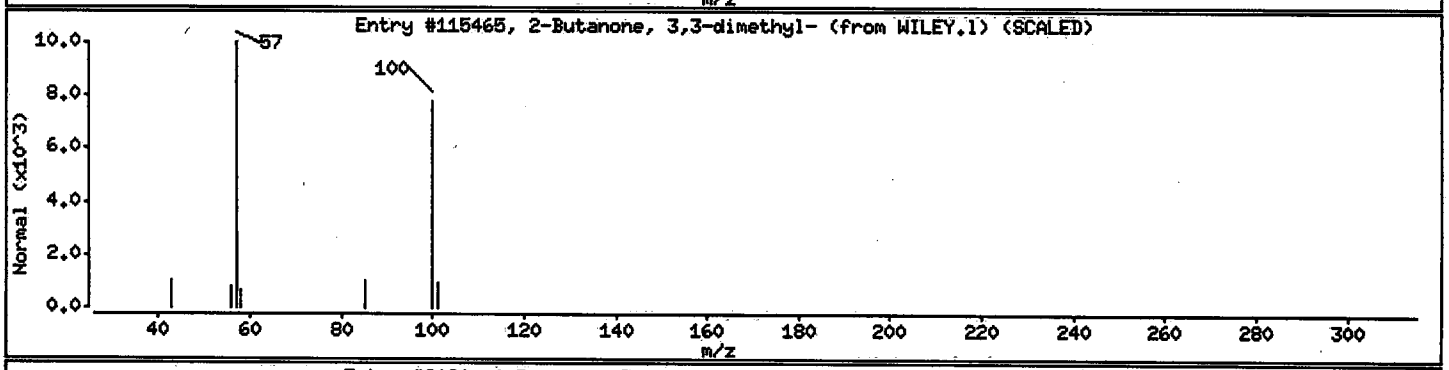
Operator: dce

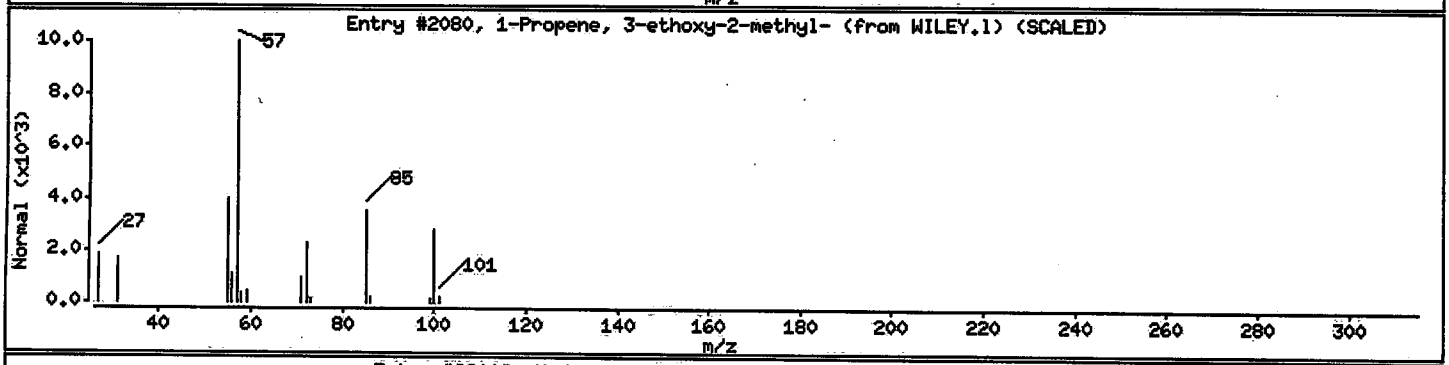
Column phase: ZB-5

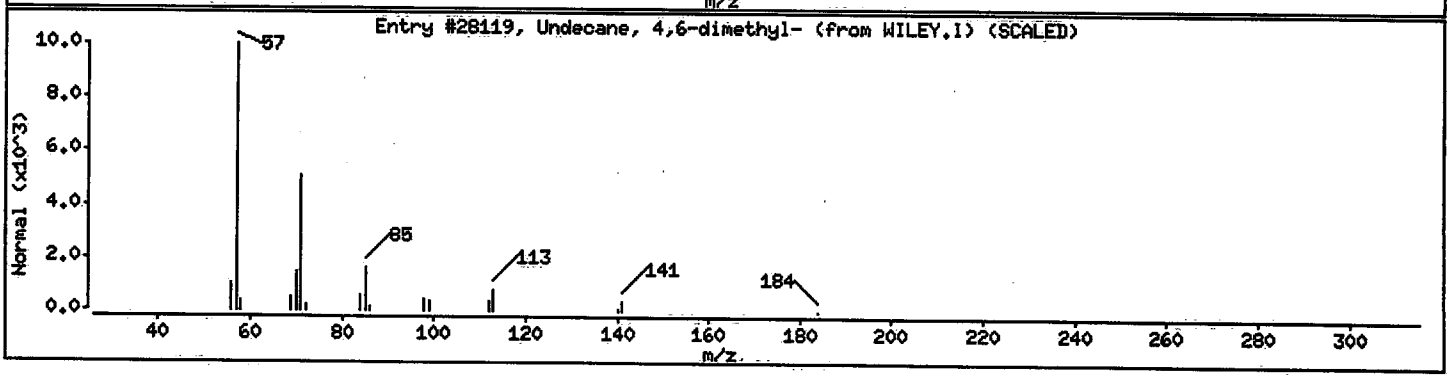
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.l	115465	47	C6H12O	100
1-Propene, 3-ethoxy-2-methyl-	24309-28-2	WILEY.l	2080	40	C6H12O	100
Undecane, 4,6-dimethyl-	17312-82-2	WILEY.l	28119	38	C13H28	184









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

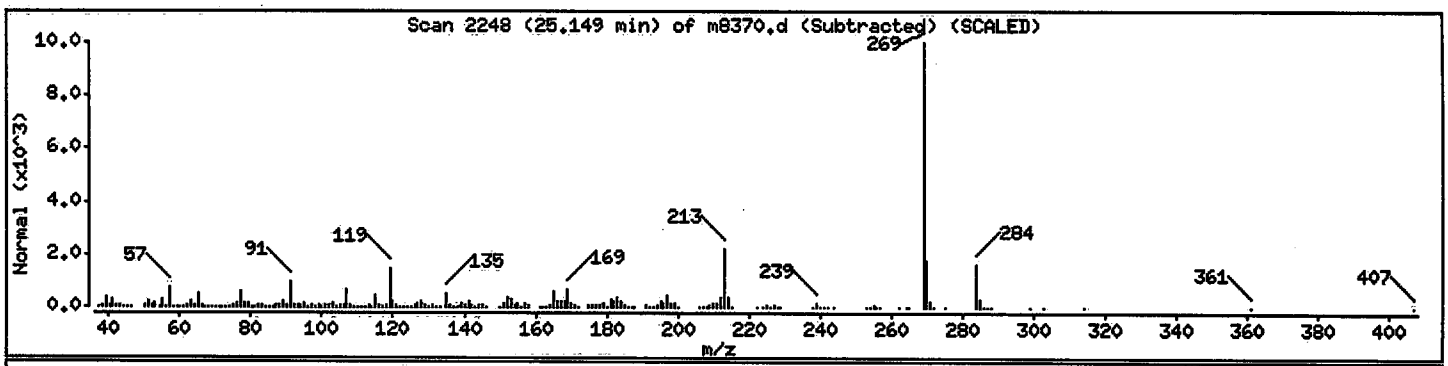
Volume Injected (uL): 2.0

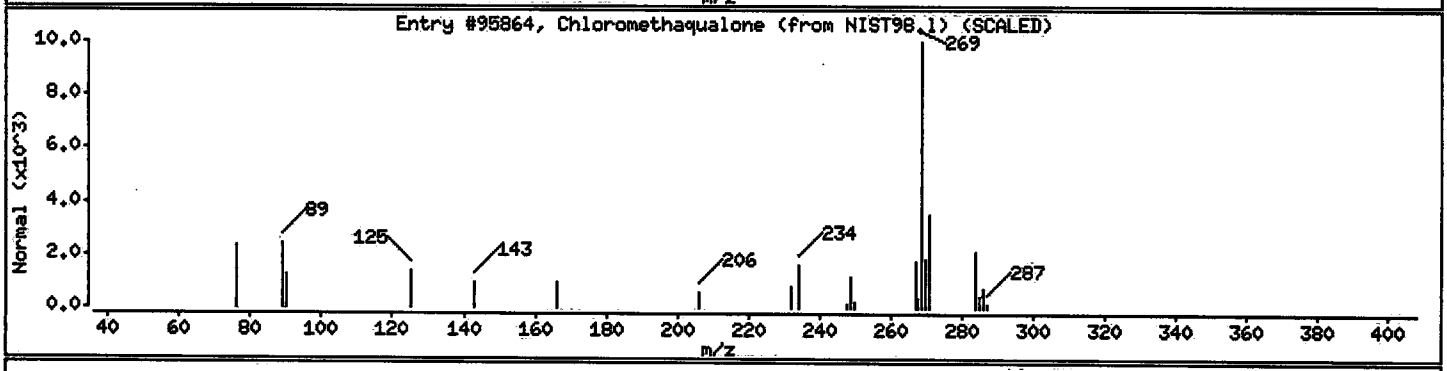
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Chloromethaqualone	3166-54-9	NIST98.1	95864	50	C16H13ClN2O	284





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Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

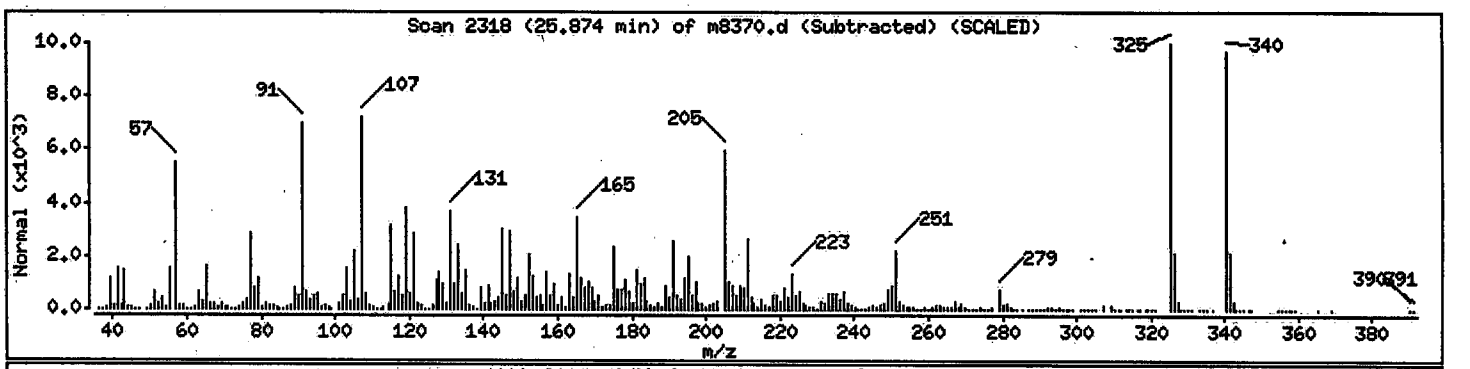
Volume Injected (uL): 2.0

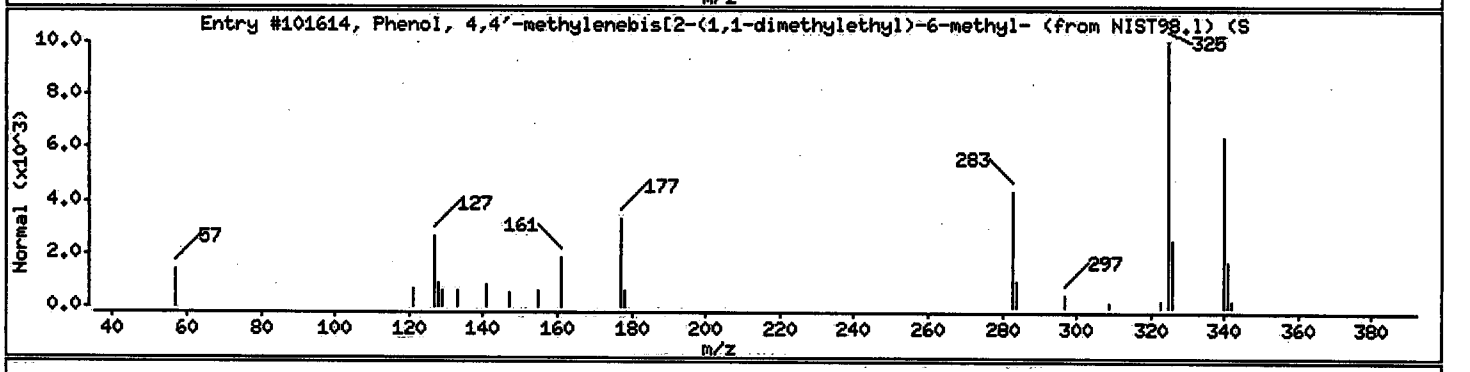
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	NIST98.1	101614	55	C23H3202	340





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Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

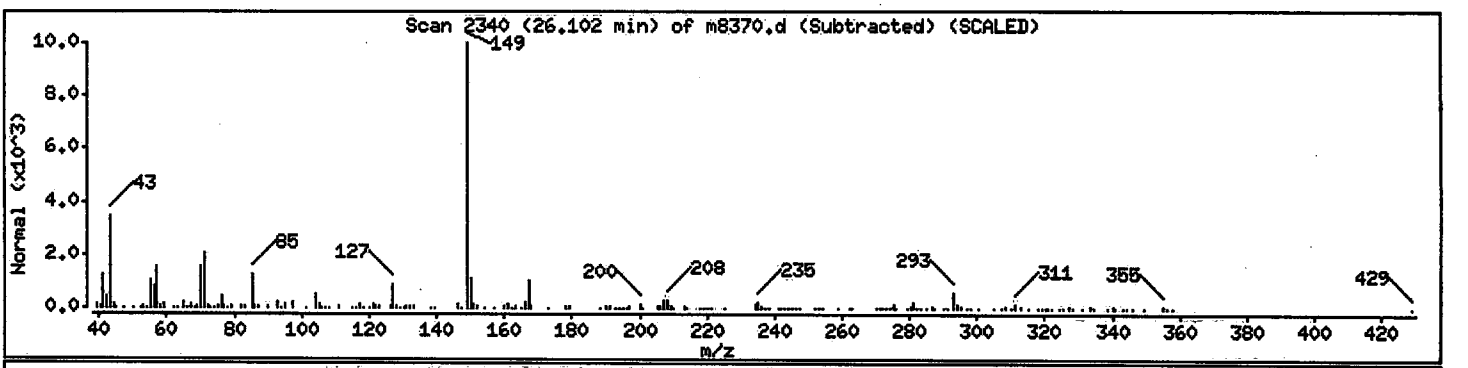
Volume Injected (uL): 2.0

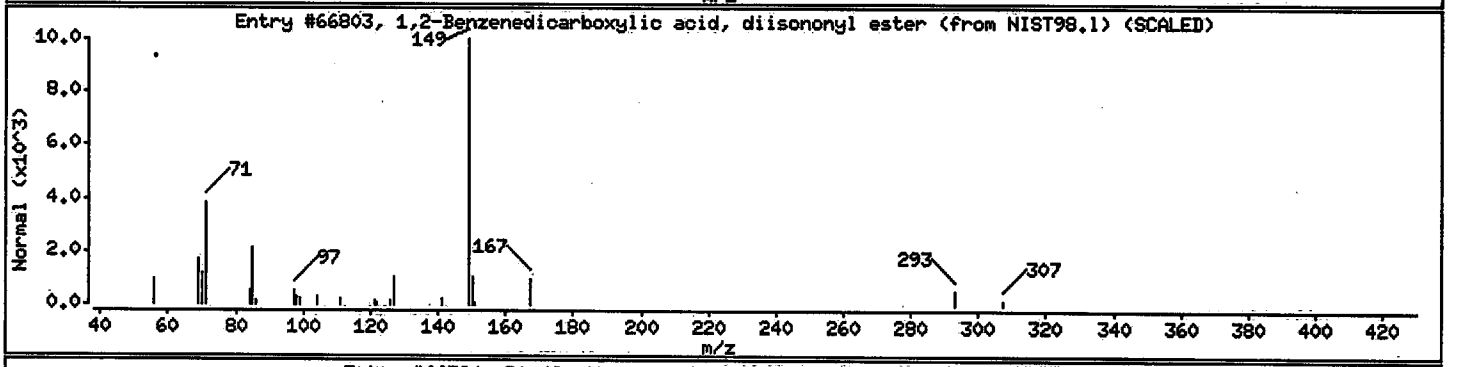
Operator: dce

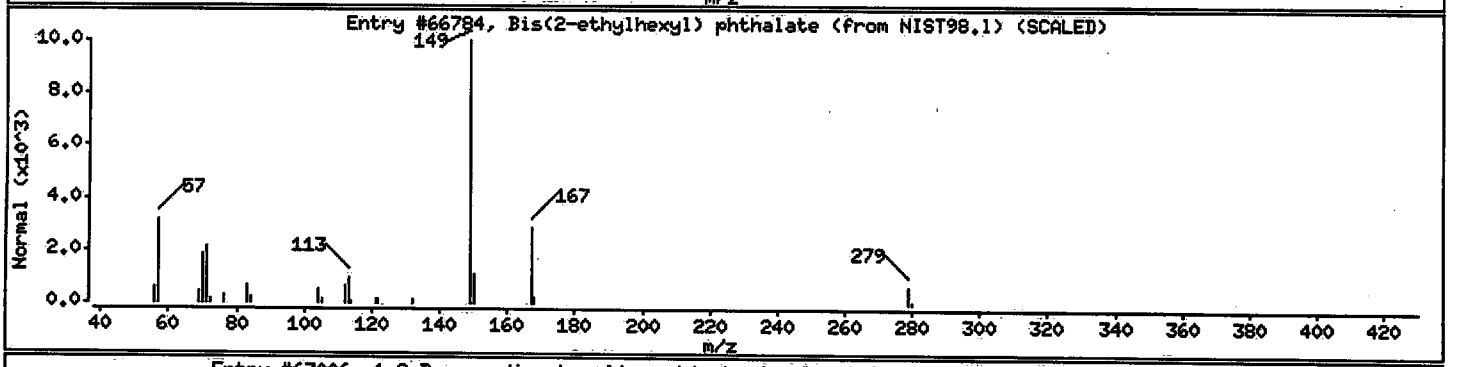
Column phase: ZB-5

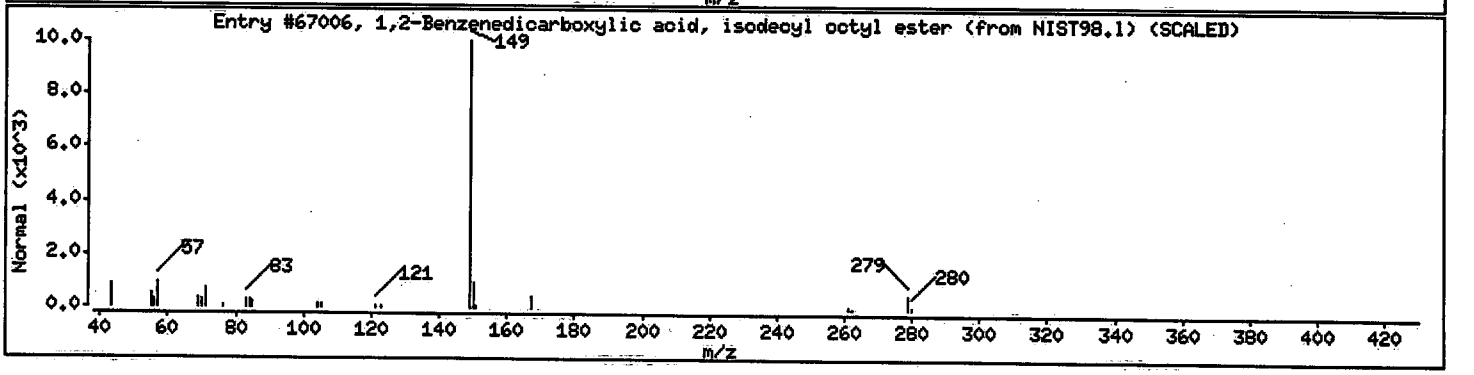
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	74	C26H4204	418
Bis(2-ethylhexyl) phthalate	117-81-7	NIST98.1	66784	53	C24H3804	390
1,2-Benzenedicarboxylic acid, isodecyl o	1330-96-7	NIST98.1	67006	50	C26H4204	418









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

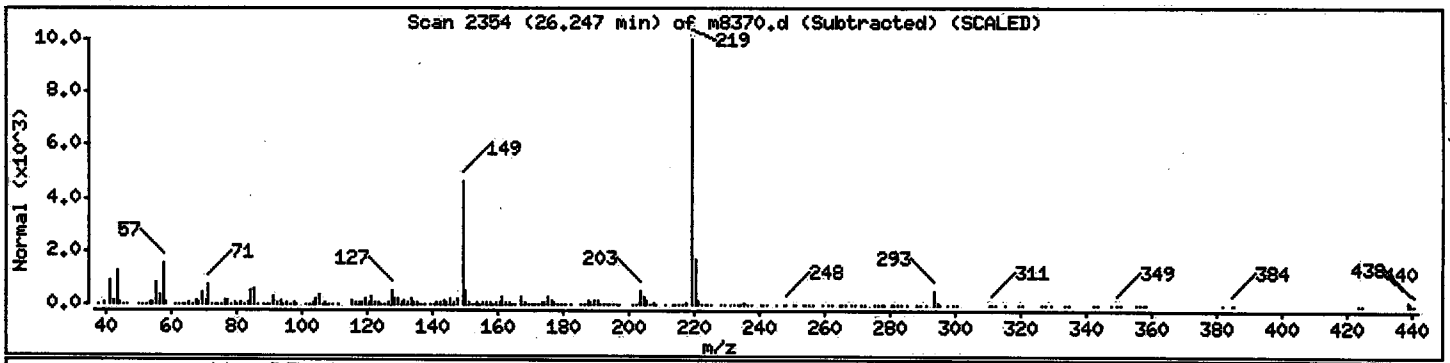
Volume Injected (uL): 2.0

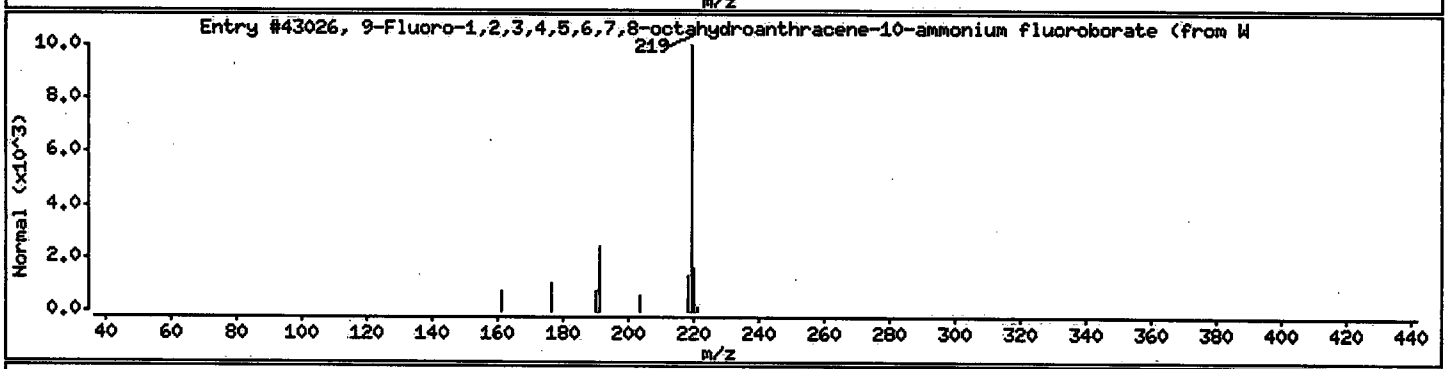
Operator: dce

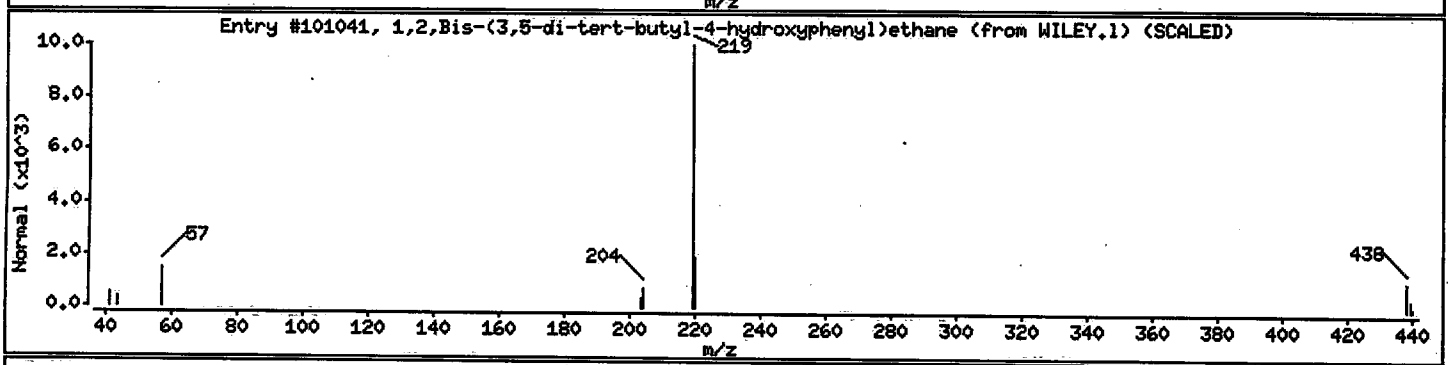
Column phase: ZB-5

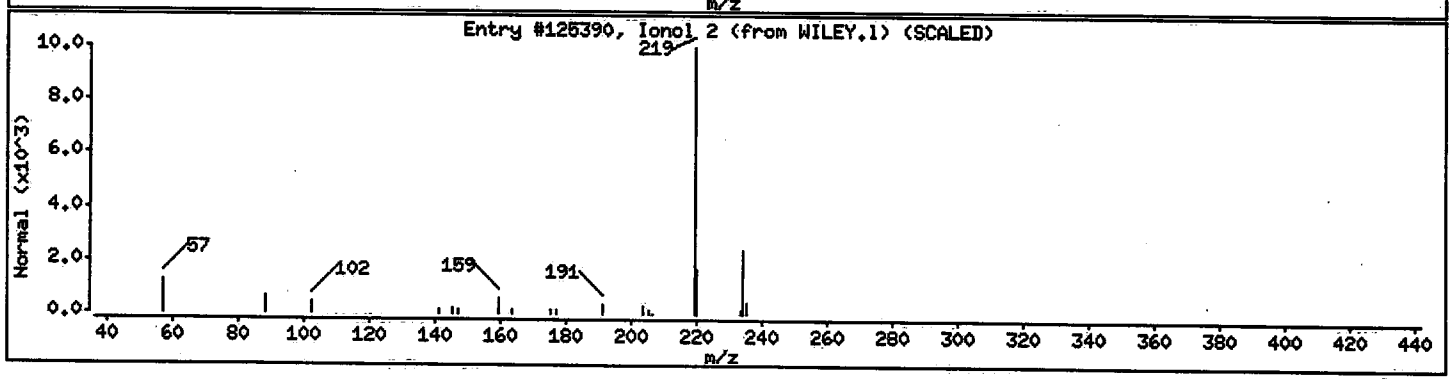
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra	58325-09-0	WILEY.I	43026	80	C14H18FN	219
1,2,Bis-(3,5-di-tert-butyl-4-hydroxyphen	0-00-0	WILEY.1	101041	47	C30H4602	438
Ionol 2	4130-42-1	WILEY.1	125390	38	C16H260	234









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

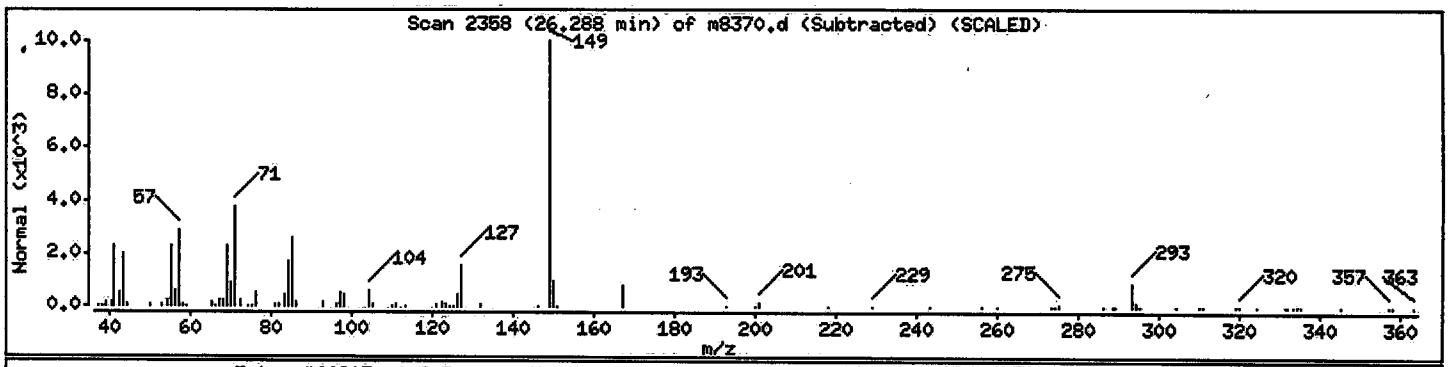
Volume Injected (uL): 2.0

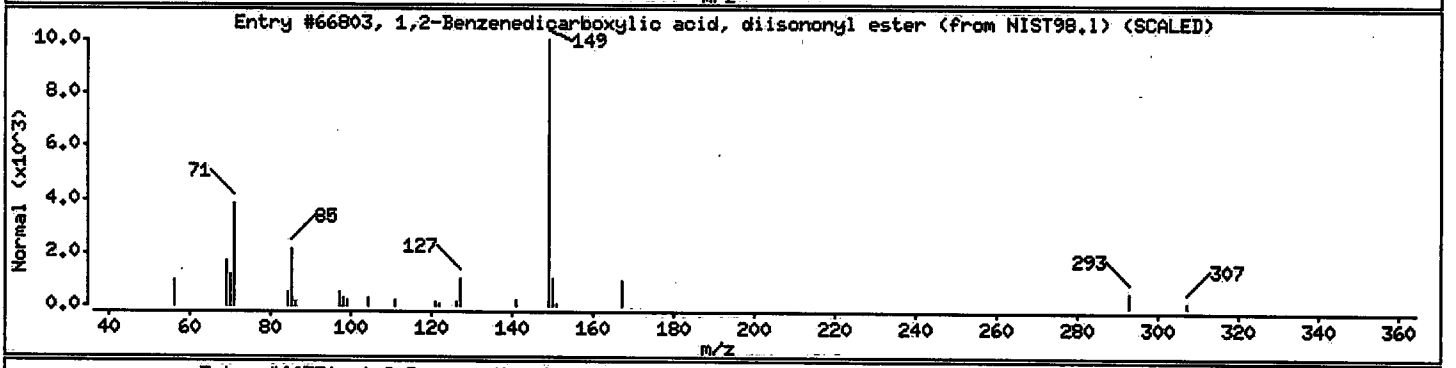
Operator: dce

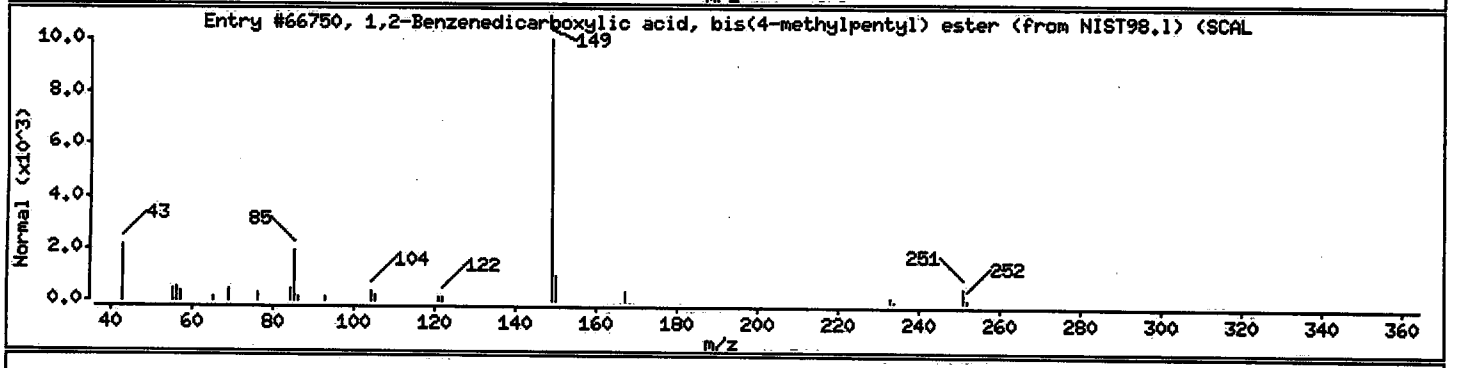
Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	78	C26H4204	418
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	NIST98.1	66750	50	C20H3004	334







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Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

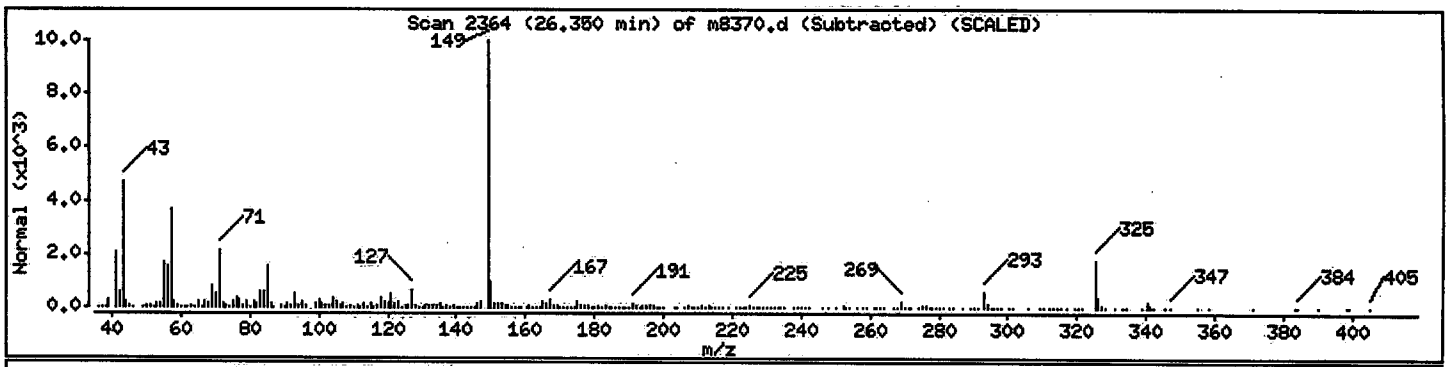
Volume Injected (uL): 2.0

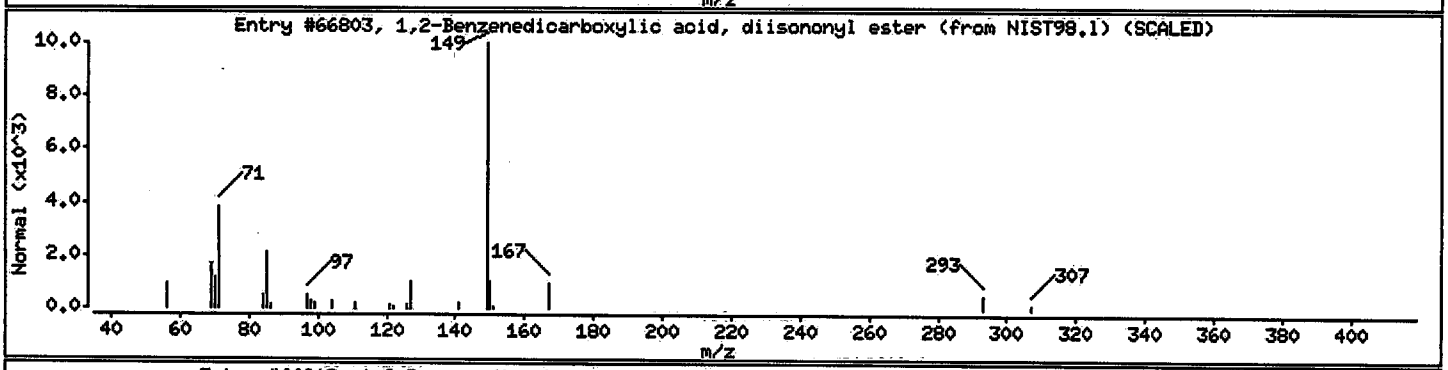
Operator: doe

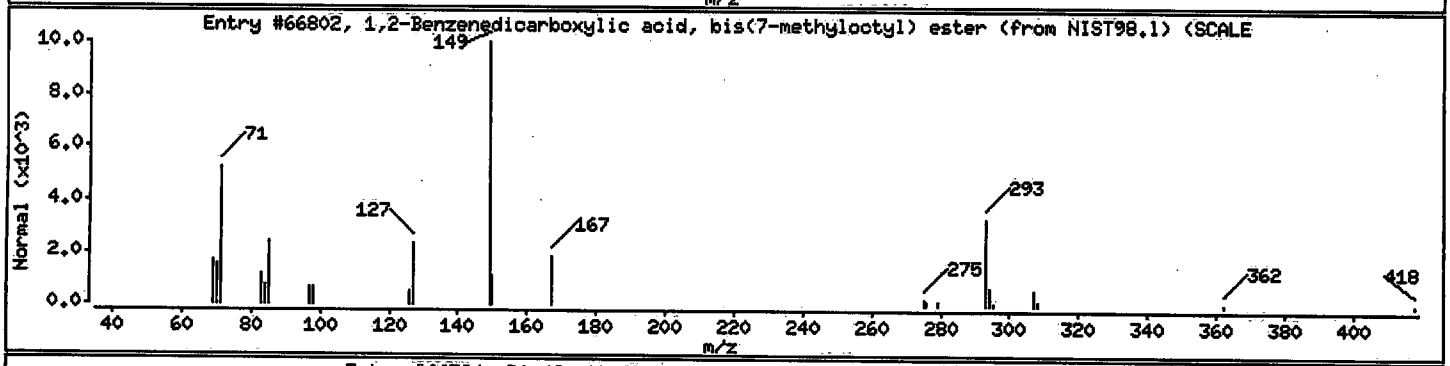
Column phase: ZB-5

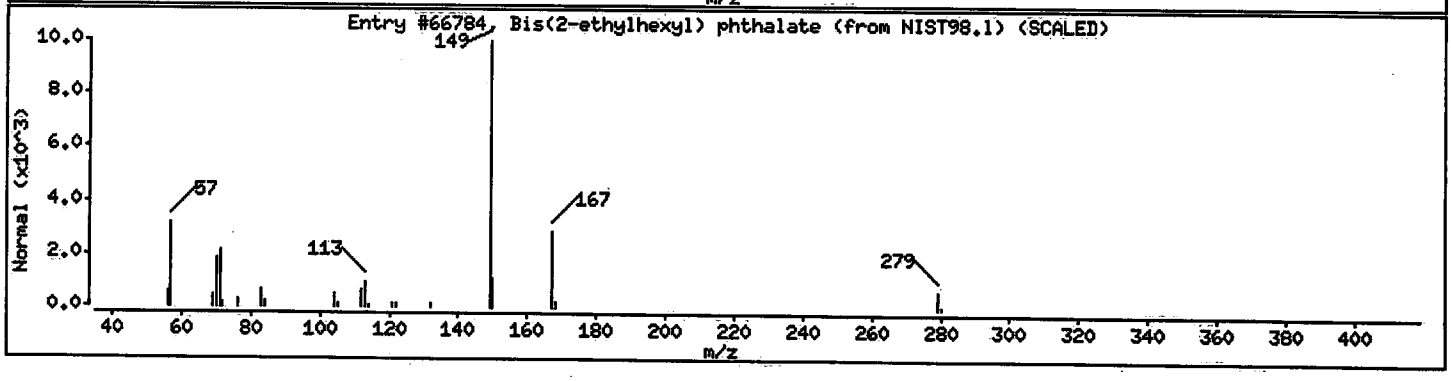
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	56	C26H4204	418
1,2-Benzenedicarboxylic acid, bis(7-meth	20548-62-3	NIST98.1	66802	56	C26H4204	418
Bis(2-ethylhexyl) phthalate	117-81-7	NIST98.1	66784	53	C24H3804	390









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

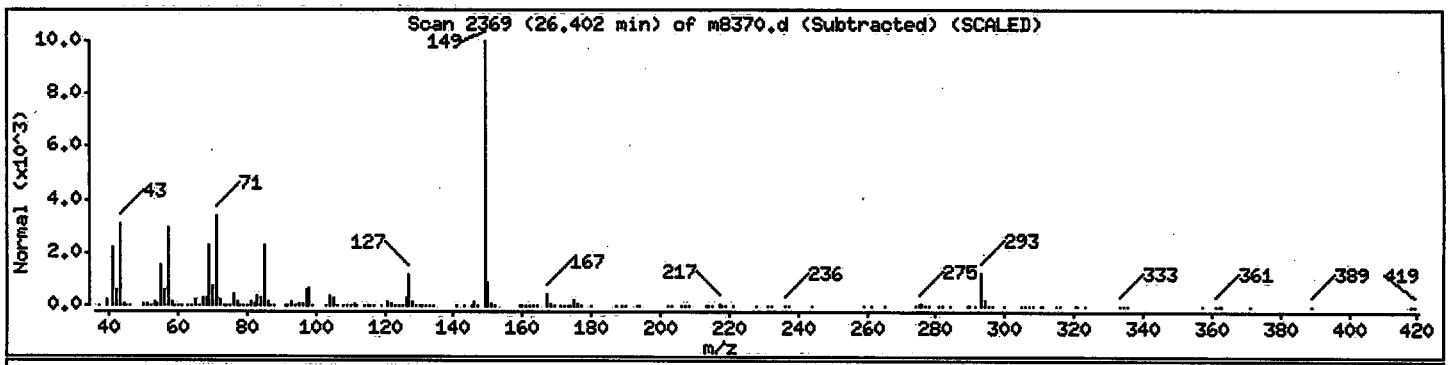
Volume Injected (uL): 2.0

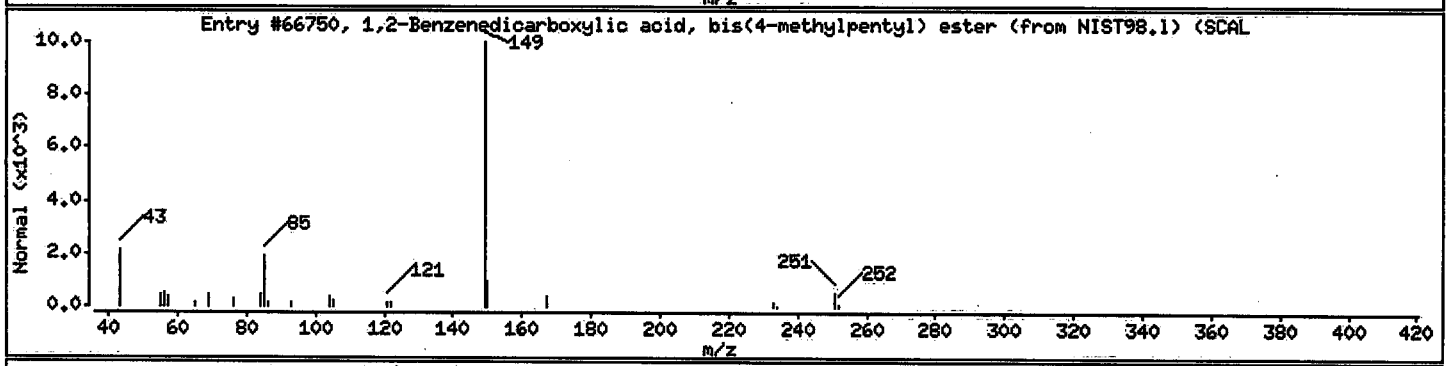
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	NIST98.1	66750	50	C20H3004	334





Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

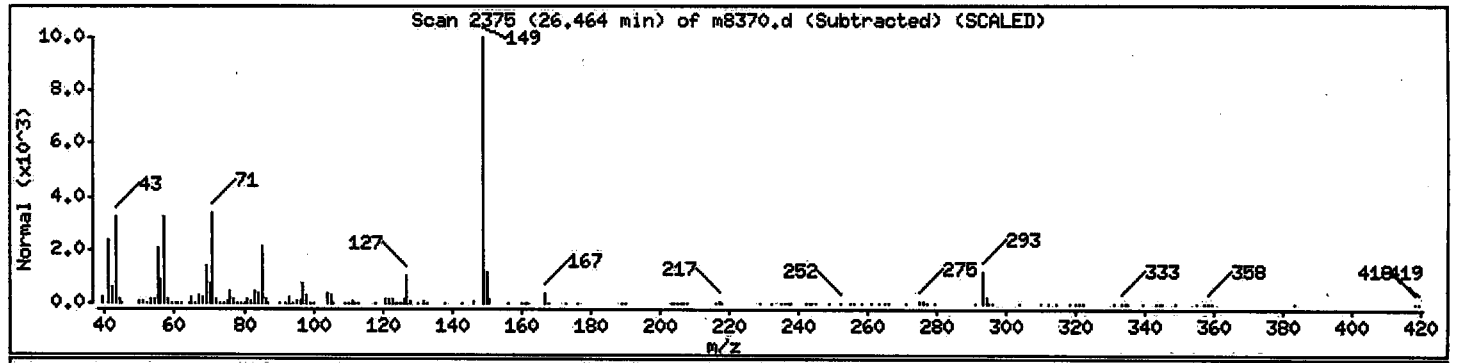
Volume Injected (uL): 2.0

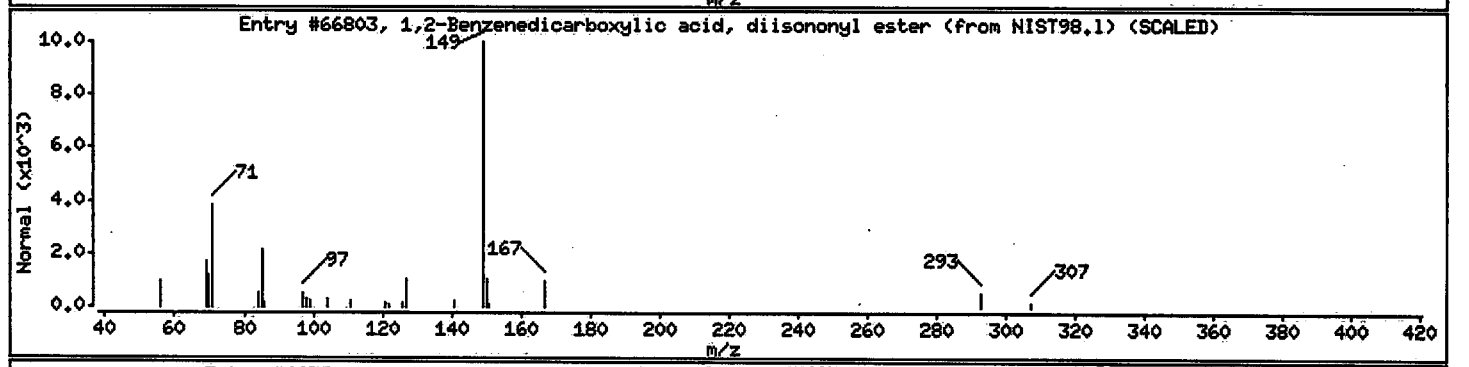
Operator: dce

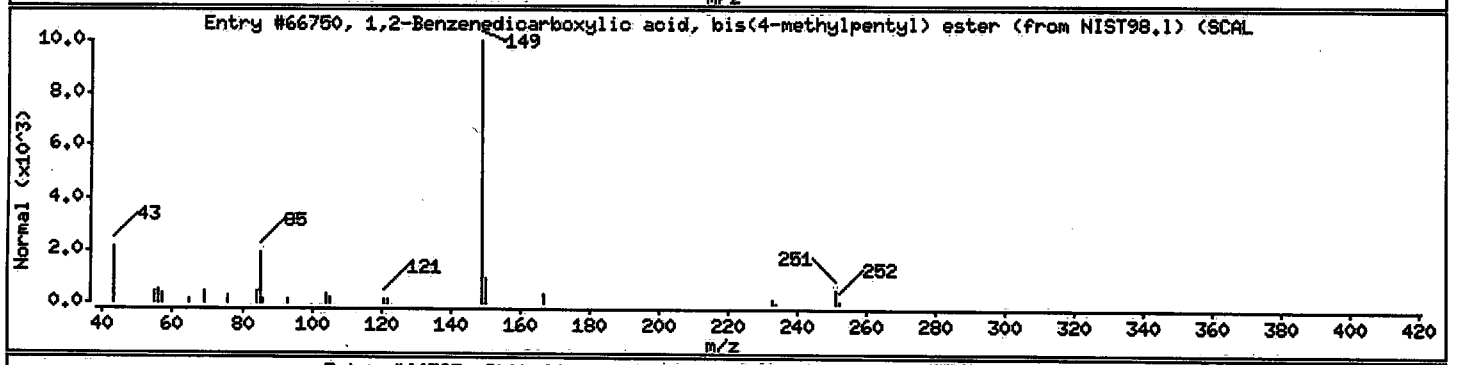
Column phase: ZB-5

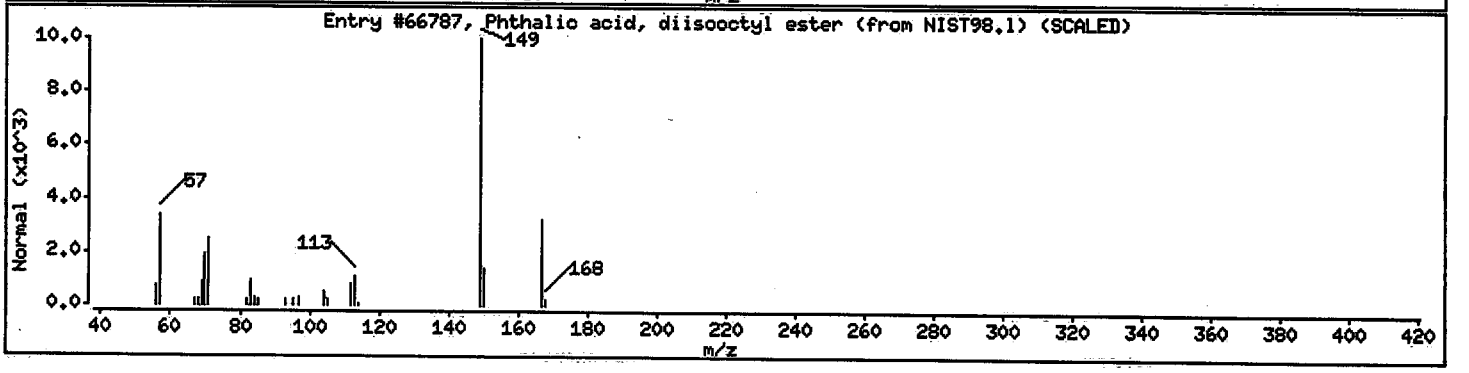
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, diisononyl	28553-12-0	NIST98.1	66803	83	C26H4204	418
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	NIST98.1	66750	58	C20H3004	334
Phthalic acid, diisooctyl ester	1330-91-2	NIST98.1	66787	53	C24H3804	390









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Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

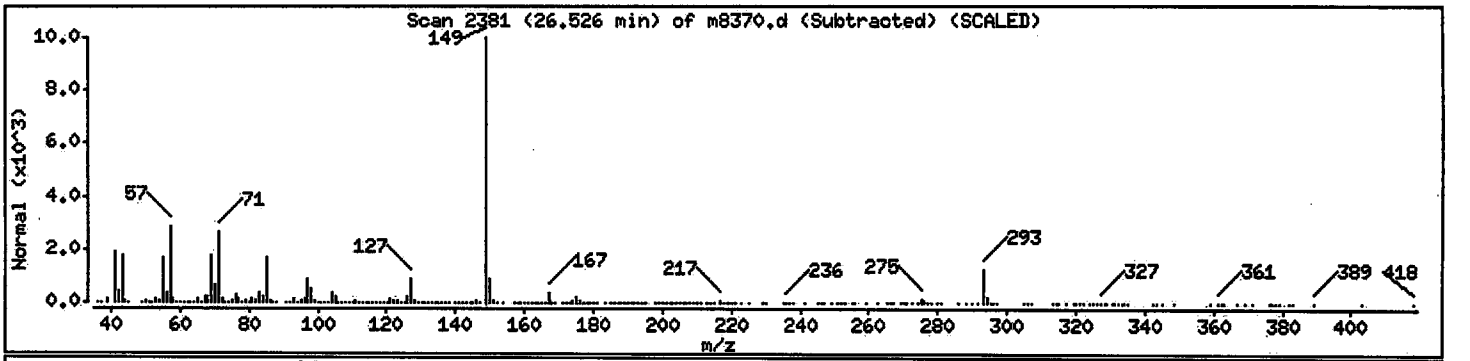
Volume Injected (uL): 2.0

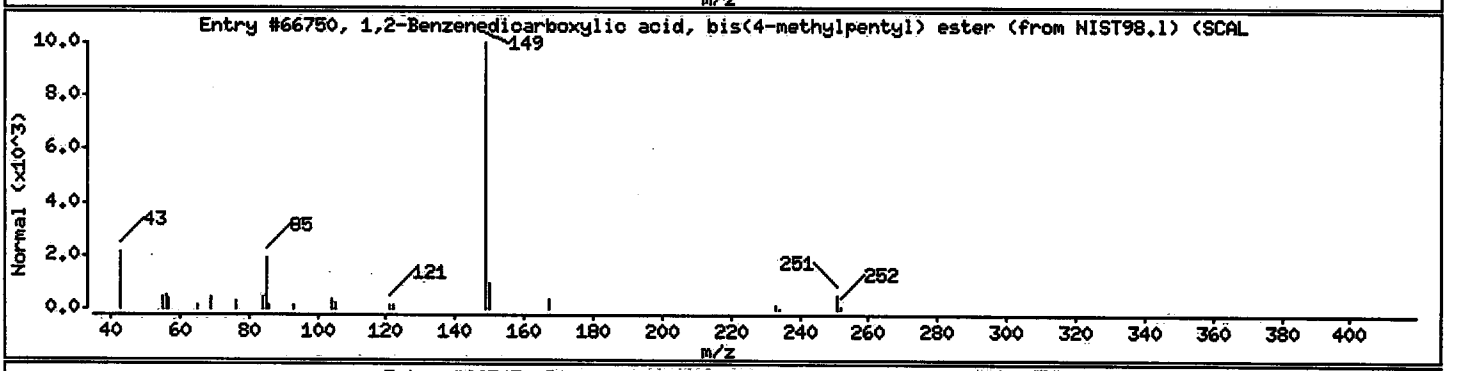
Operator: dce

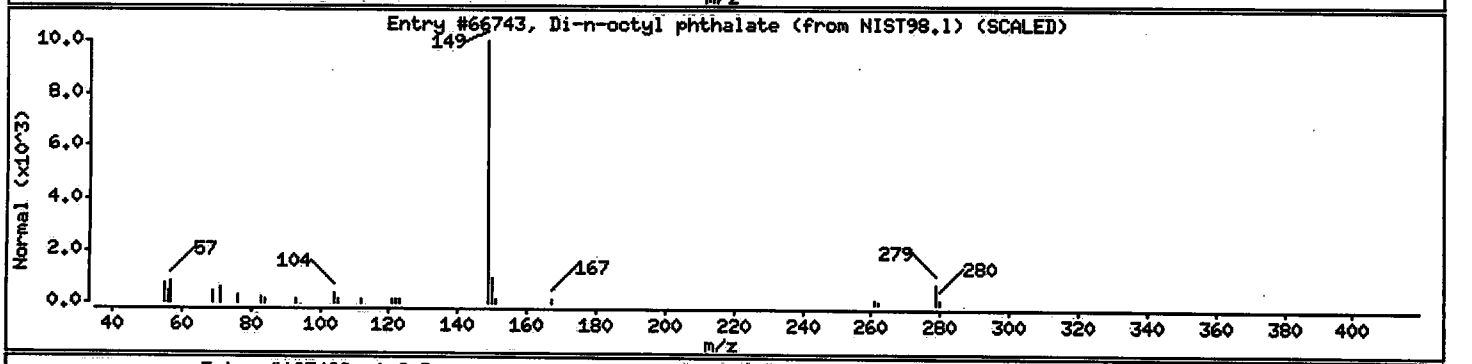
Column phase: ZB-5

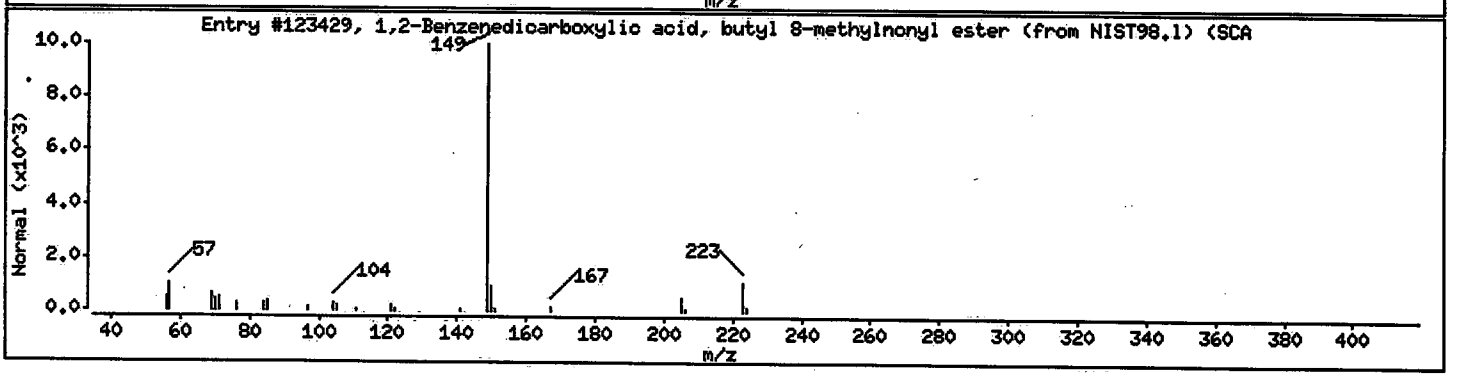
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	NIST98.1	66750	58	C20H3004	334
Di-n-octyl phthalate	117-84-0	NIST98.1	66743	50	C24H3804	390
1,2-Benzenedicarboxylic acid, butyl 8-me	89-18-9	NIST98.1	123429	50	C22H3404	362









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

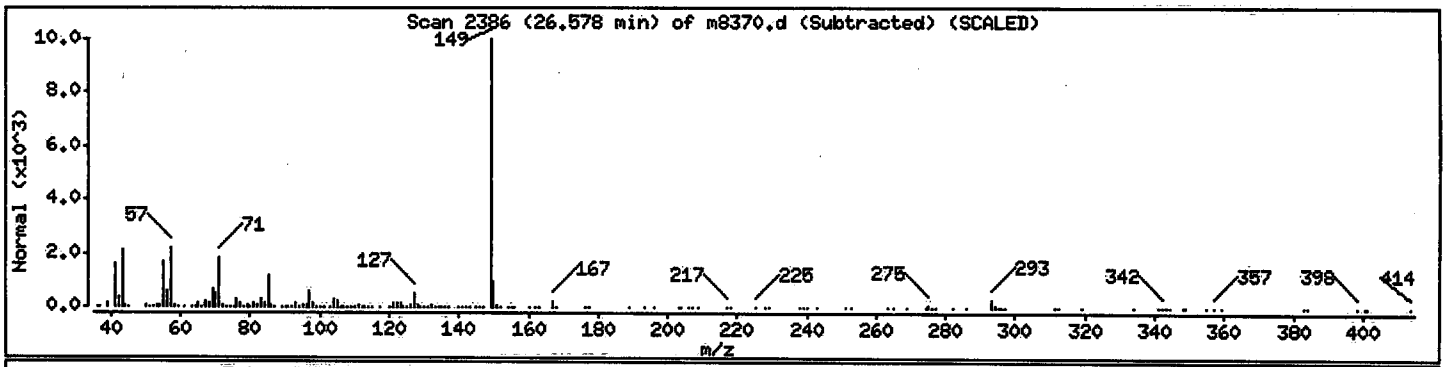
Volume Injected (uL): 2.0

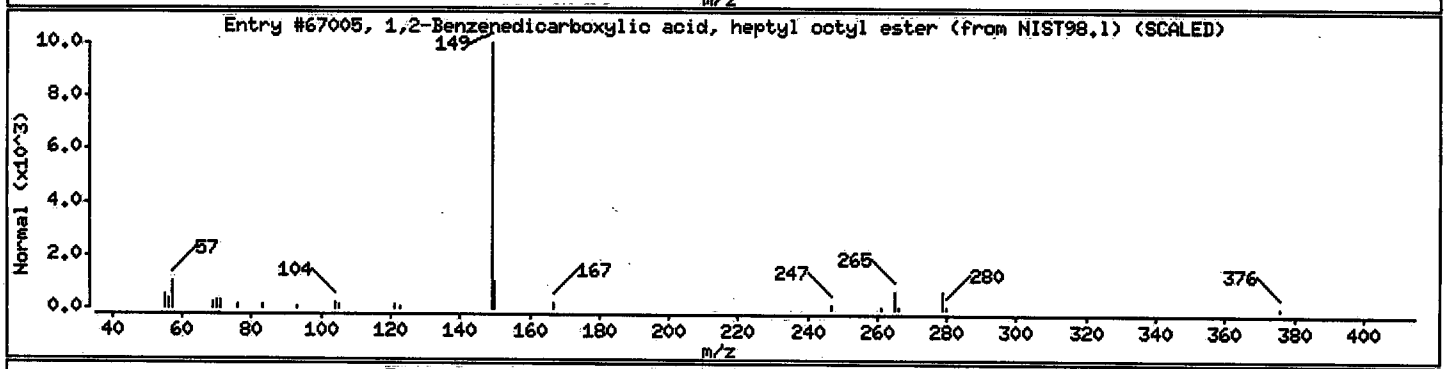
Operator: dce

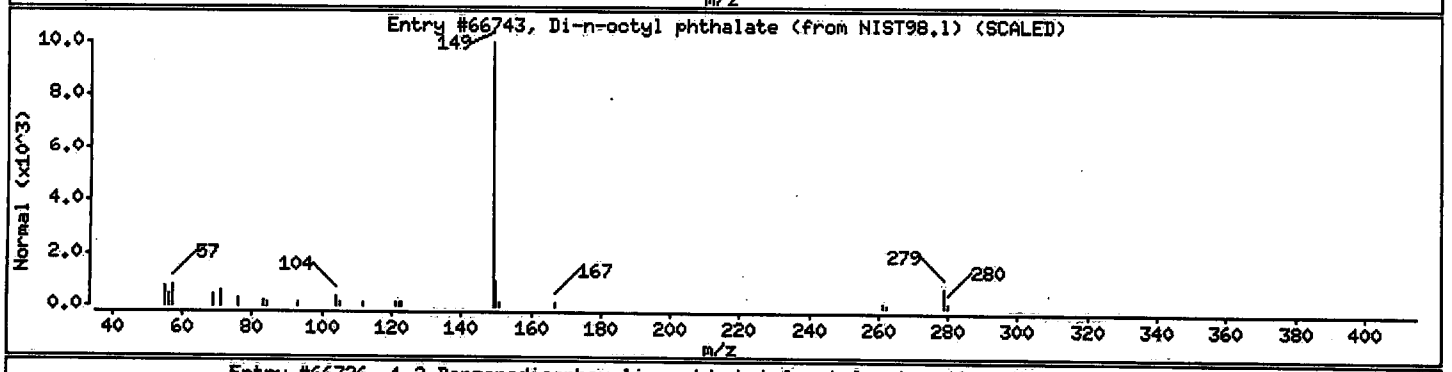
Column phase: ZB-5

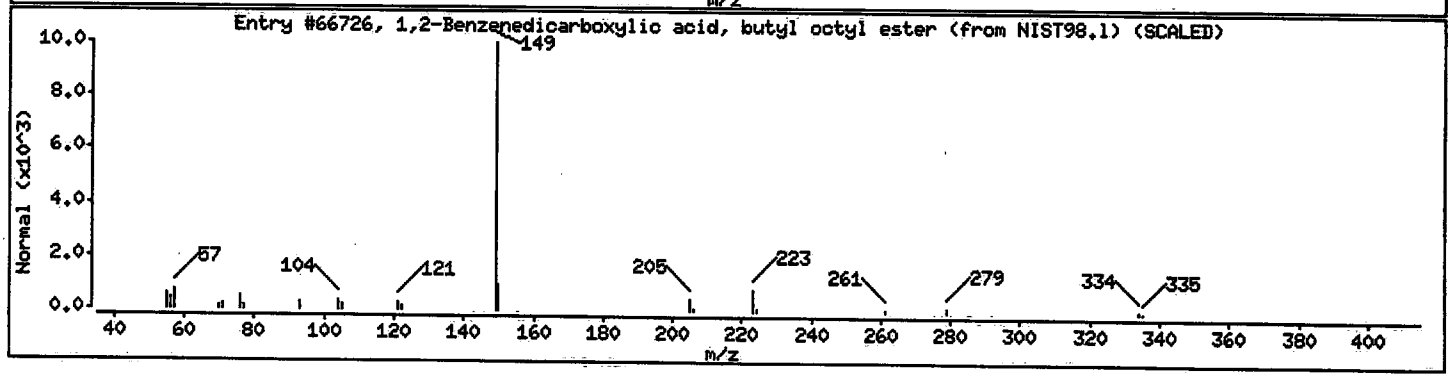
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, heptyl oct	88216-58-4	NIST98.1	67005	53	C23H3604	376
Di-n-octyl phthalate	117-84-0	NIST98.1	66743	58	C24H3804	390
1,2-Benzenedicarboxylic acid, butyl octy	84-78-6	NIST98.1	66726	53	C20H3004	334









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

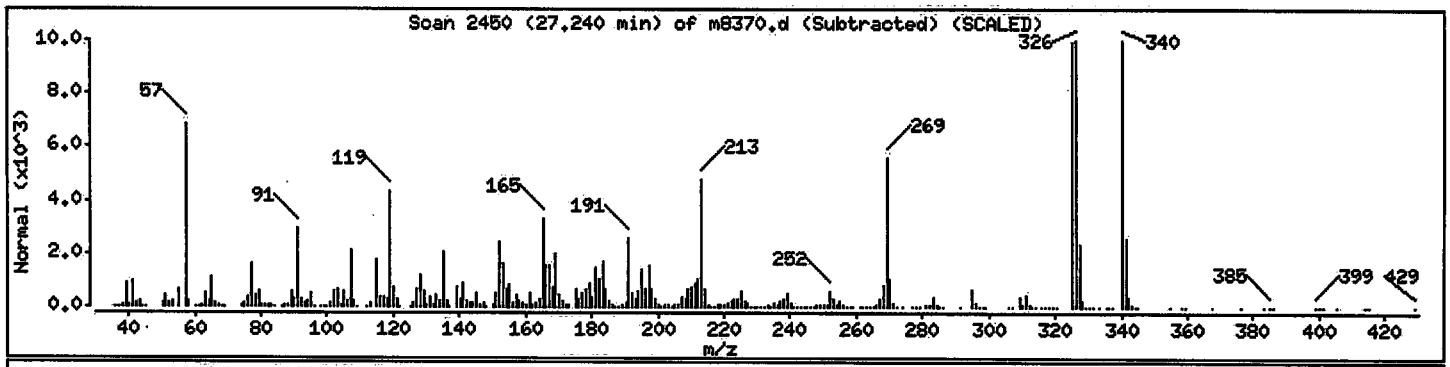
Volume Injected (uL): 2.0

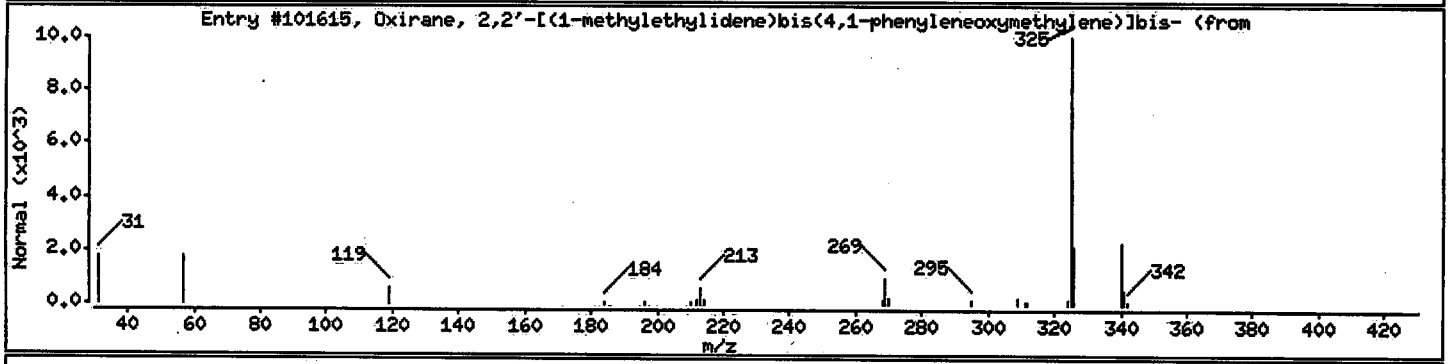
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, 2,2'-[(1-methylethylidene)bis(4	1675-54-3	NIST98.1	101615	91	C21H2404	340





Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

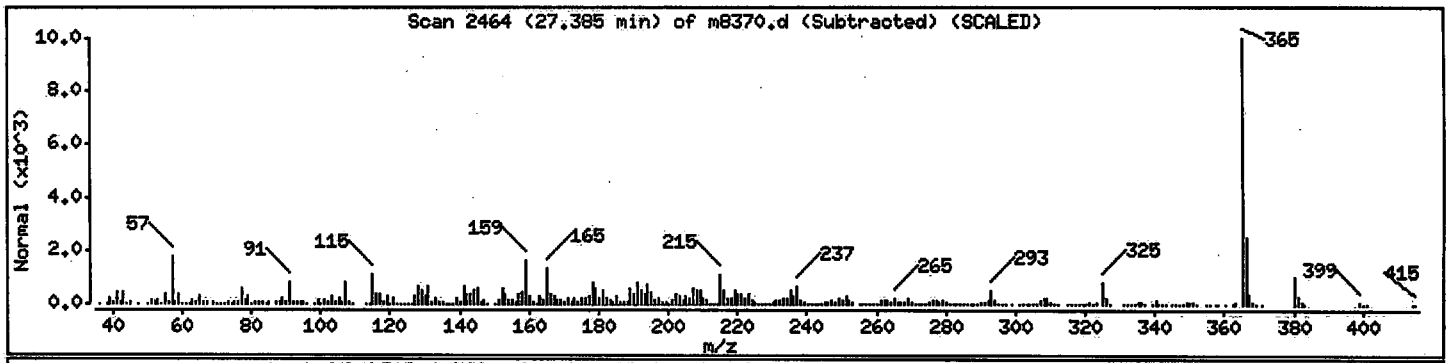
Volume Injected (uL): 2.0

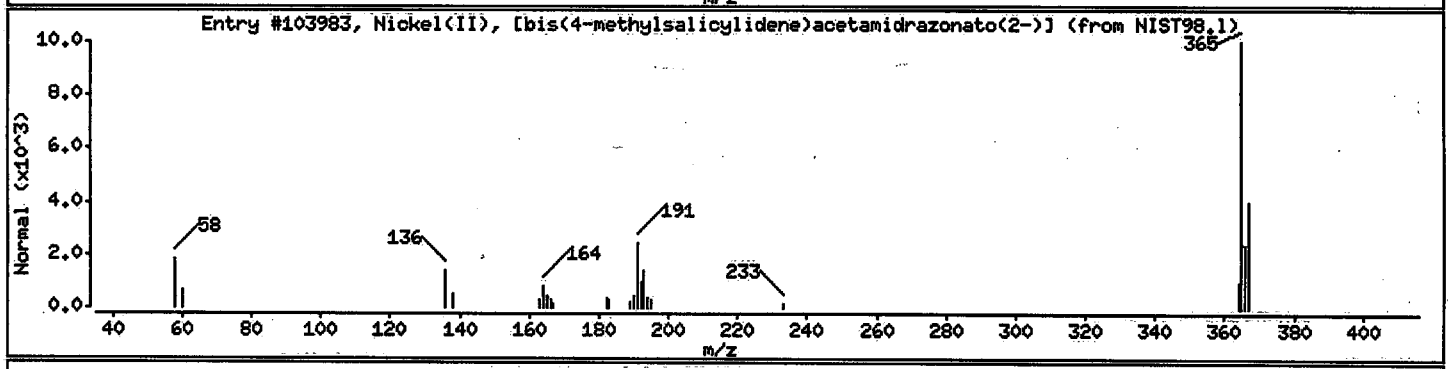
Operator: doe

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nickel(II), [bis(4-methylsalicylidene)ac	1000164-61-6	NIST98.1	103983	50	C18H17N3NiO2	365





Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

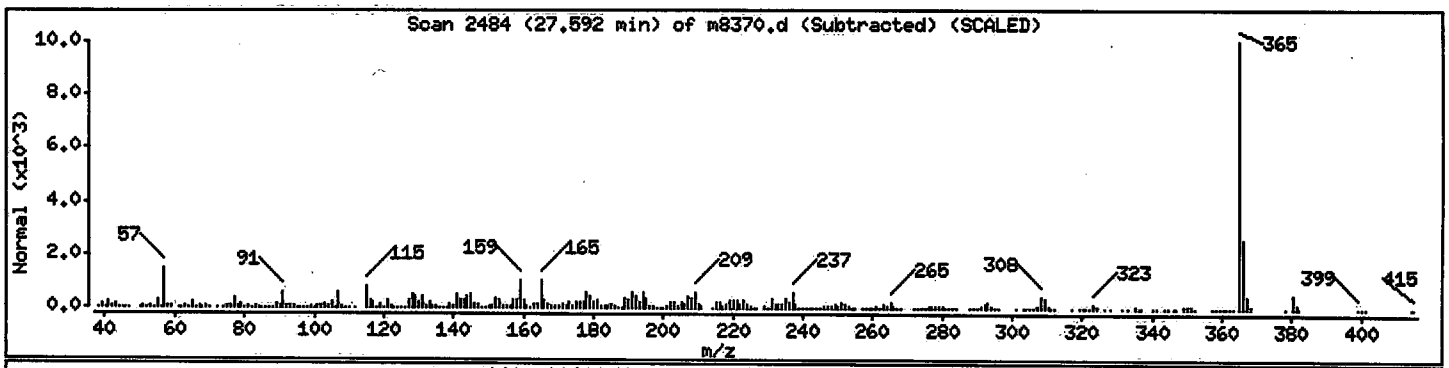
Volume Injected (uL): 2.0

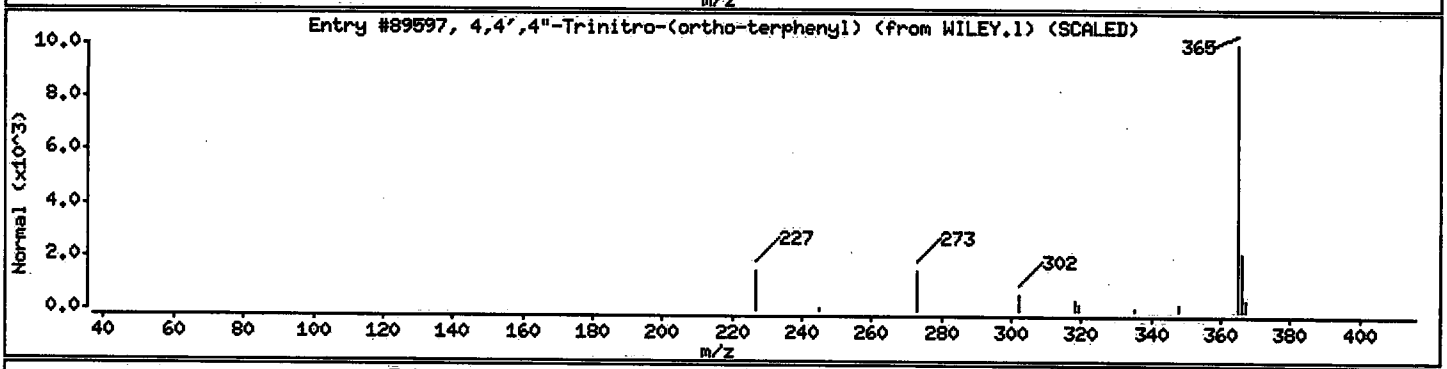
Operator: dce

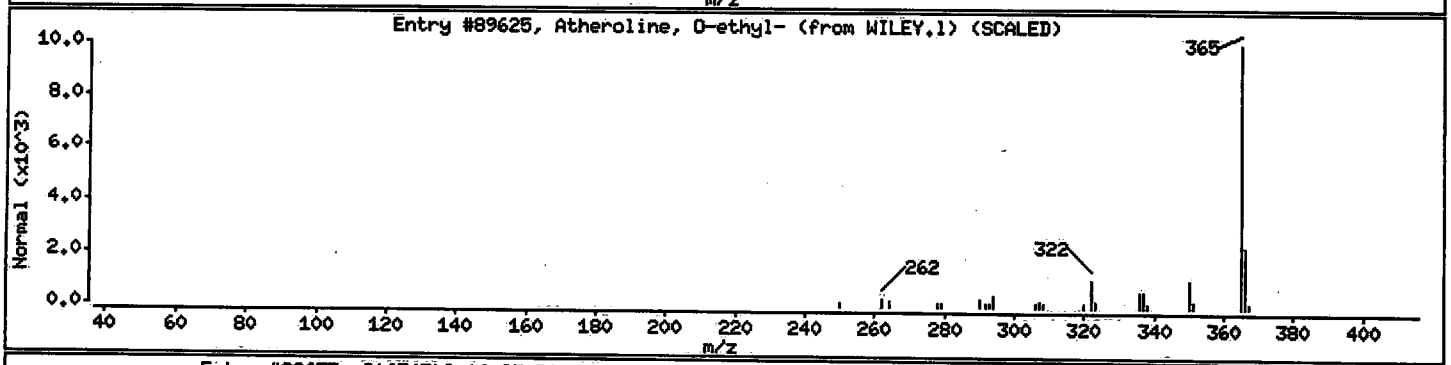
Column phase: ZB-5

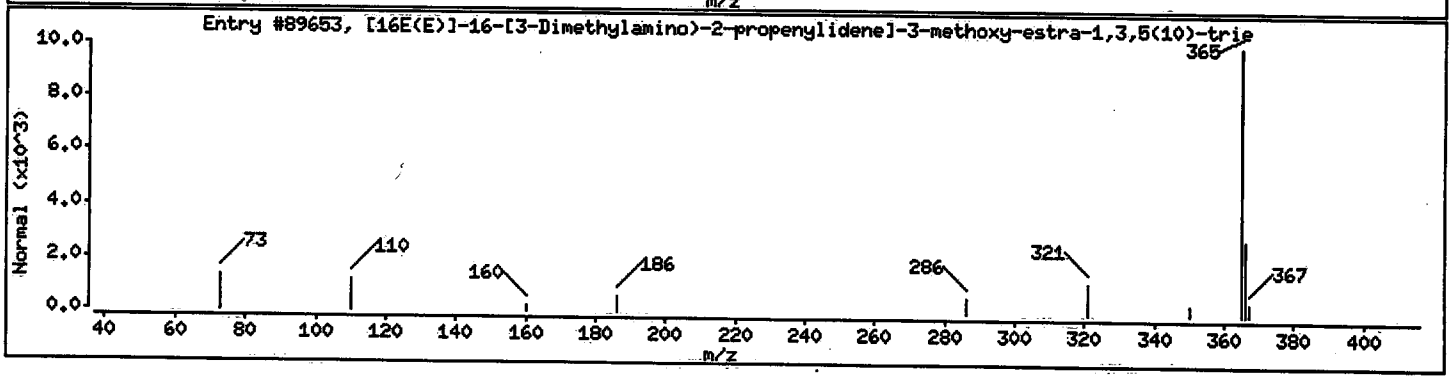
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
4,4',4"-Trinitro-(ortho-terphenyl)	60366-46-3	WILEY.l	89597	50	C18H11N3O6	365
Atheroline, O-ethyl-	11036-98-9	WILEY.l	89625	45	C21H19NO5	365
[16E(E)]-16-[3-Dimethylamino)-2-propenyl	75834-05-8	WILEY.l	89653	38	C24H31NO2	365









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

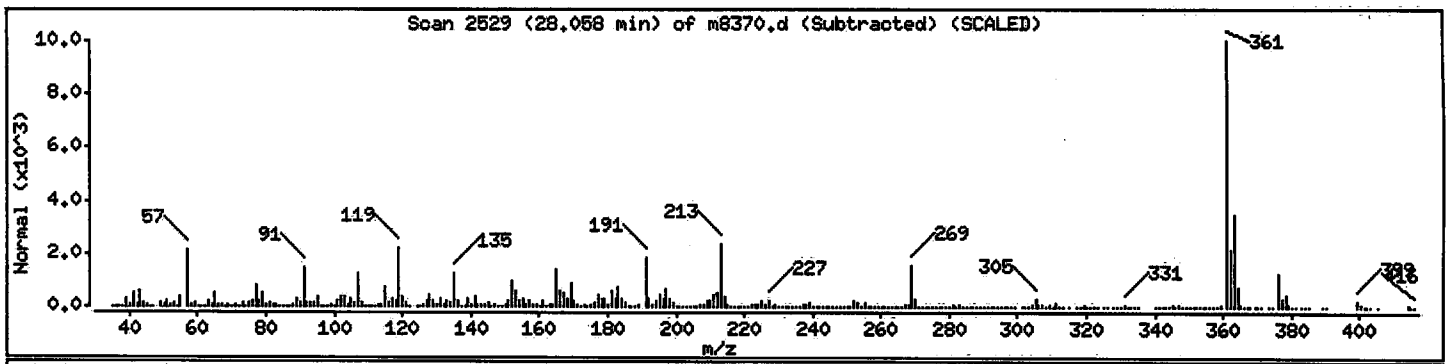
Volume Injected (uL): 2.0

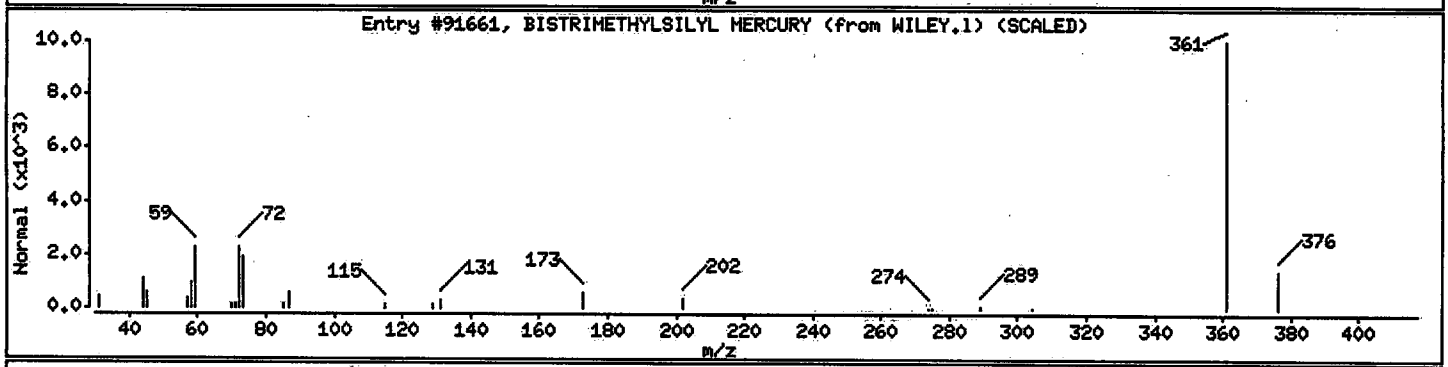
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
BISTRIMETHYLSILYL MERCURY	13294-23-0	WILEY.l	91661	17	C8H22HgSi2	376





Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

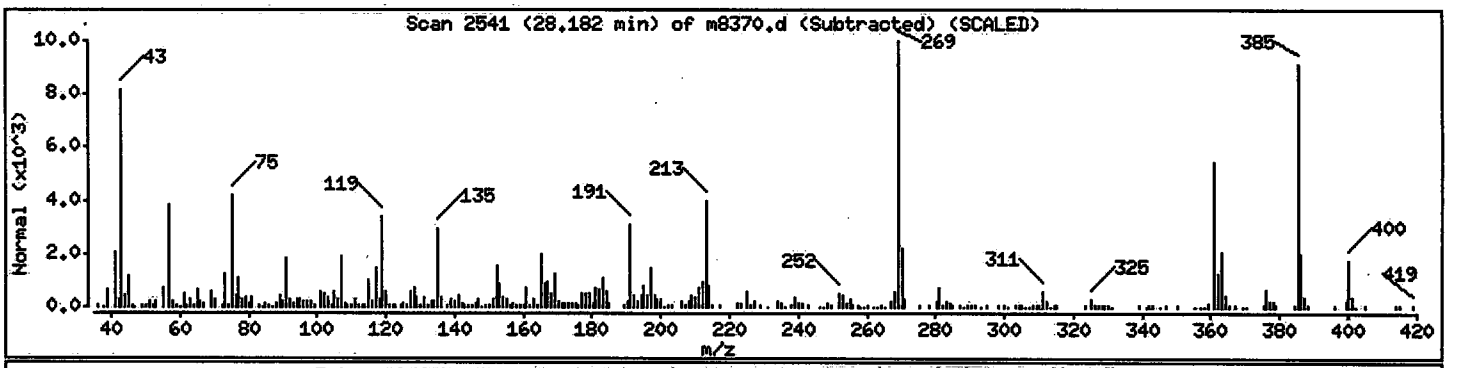
Volume Injected (uL): 2.0

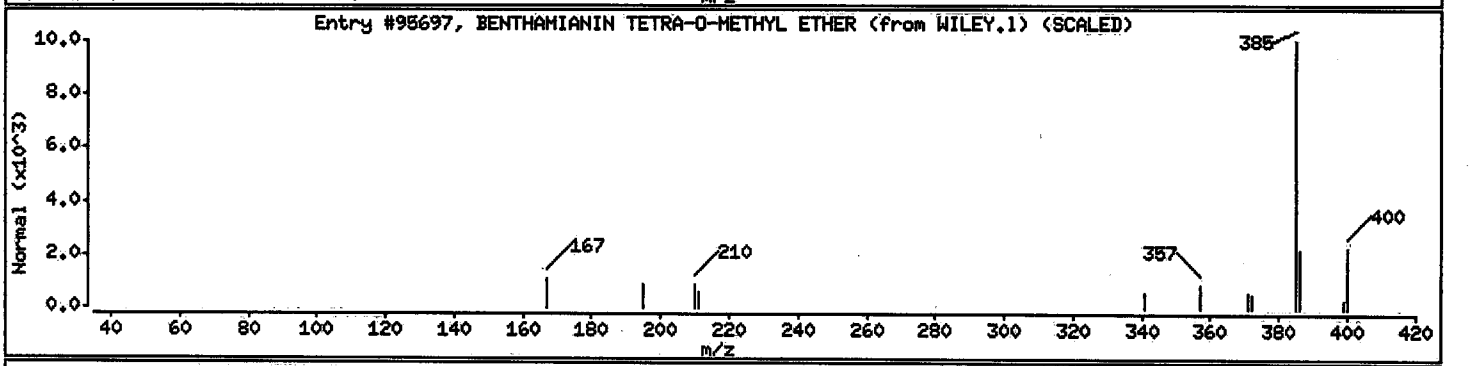
Operator: dce

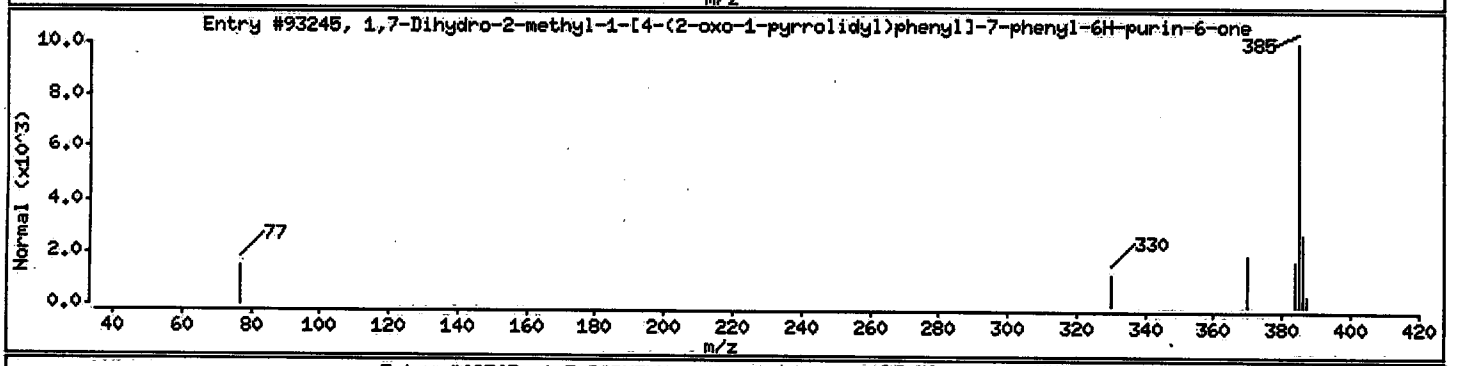
Column phase: ZB-5

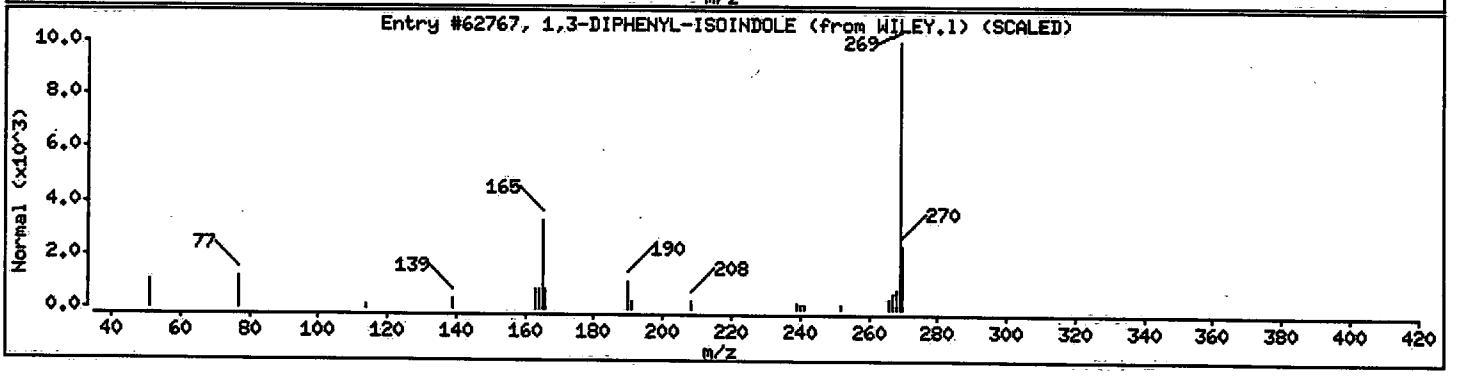
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
BENTHAMIANIN TETRA-O-METHYL ETHER	72947-70-7	WILEY.1	95697	25	C21H2008	400
1,7-Dihydro-2-methyl-1-[4-(2-oxo-1-pyrro	83325-18-2	WILEY.1	93245	14	C22H19N502	385
1,3-DIPHENYL-ISOINDOLE	4276-23-7	WILEY.1	62767	11	C20H15N	269









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

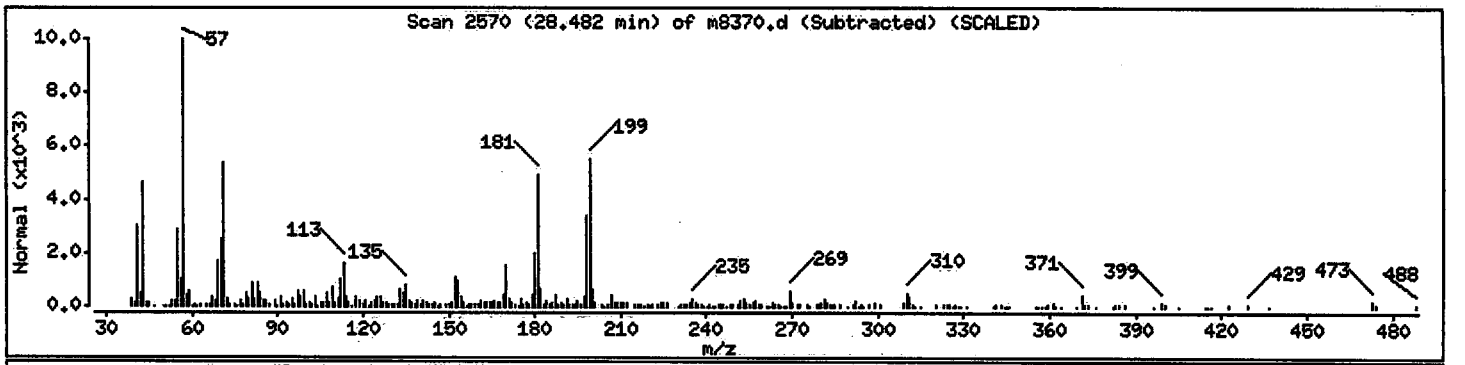
Volume Injected (uL): 2.0

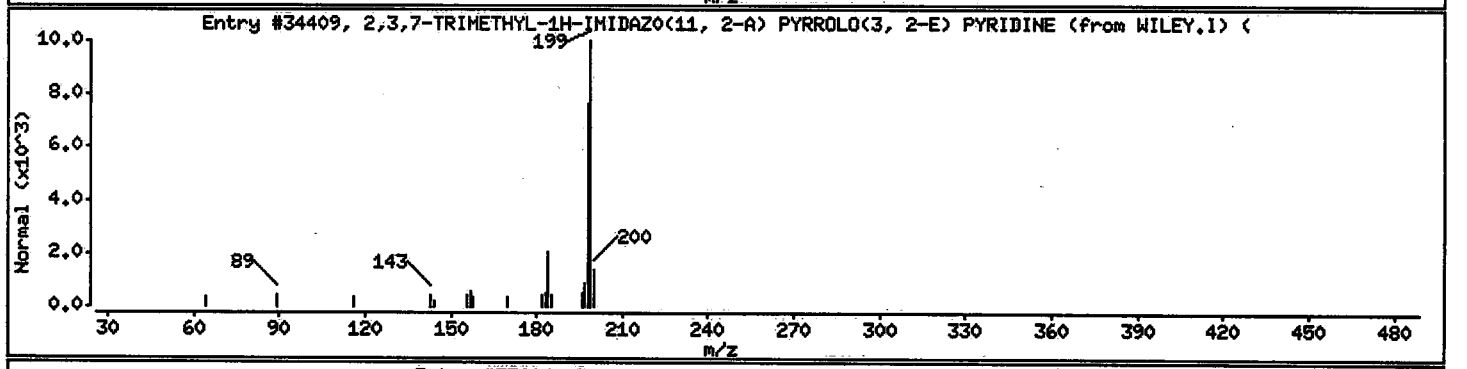
Operator: dce

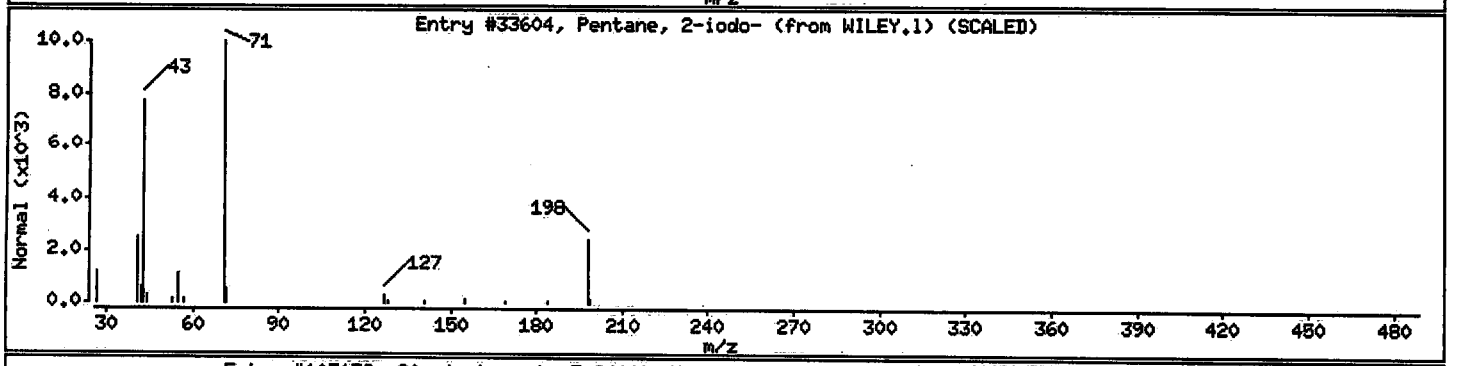
Column phase: ZB-5

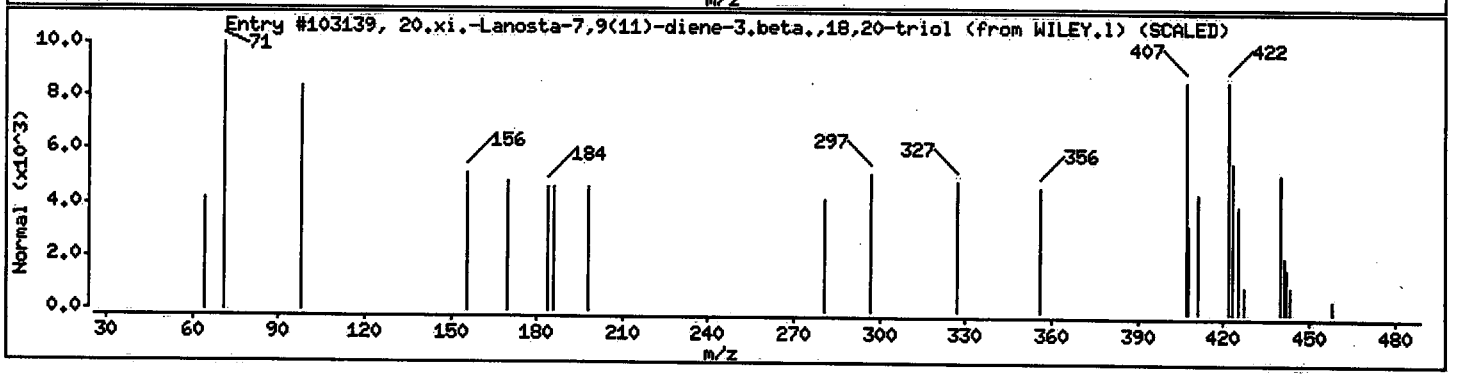
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3,7-TRIMETHYL-1H-IMIDAZO(11, 2-A) PYRR	63282-66-6	WILEY.1	34409	18	C12H13N3	199
Pentane, 2-iodo-	637-97-8	WILEY.1	33604	14	C5H11I	198
20.xi.-Lanosta-7,9(11)-diene-3.beta.,18,	25116-58-9	WILEY.1	103139	10	C30H50O3	458









Data File: /var/chem/molly.i/0307184m1r.b/m8370.d

Date : 18-JUL-2003 19:46

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

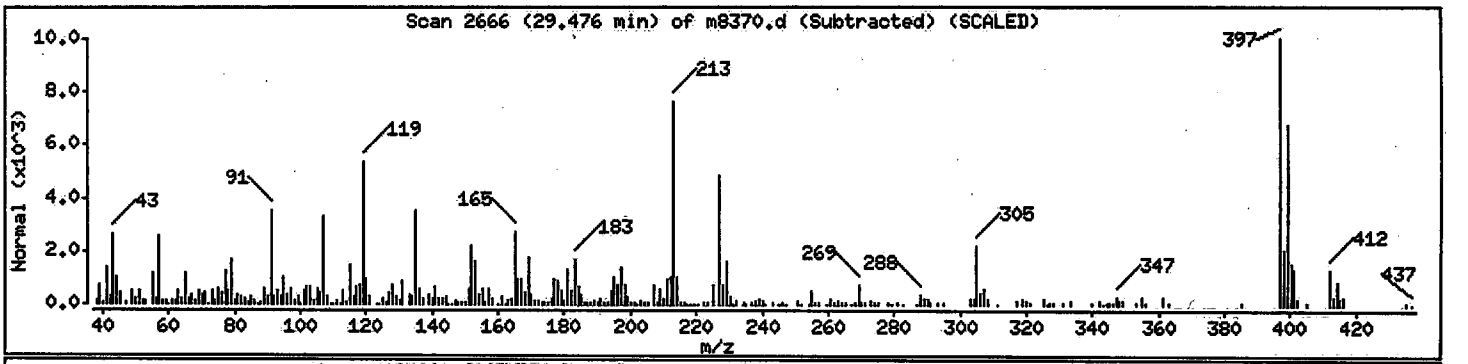
Volume Injected (uL): 2.0

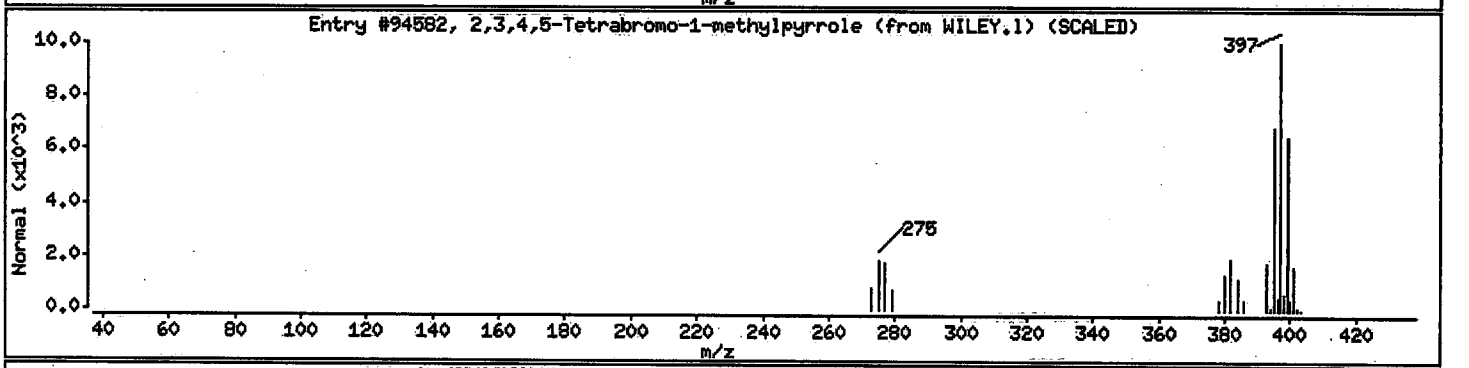
Operator: dce

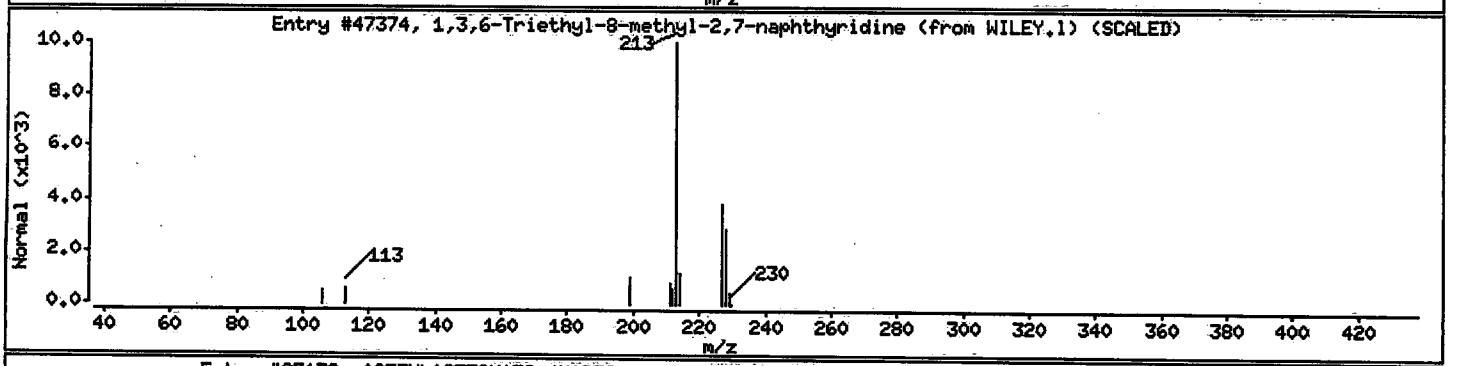
Column phase: ZB-5

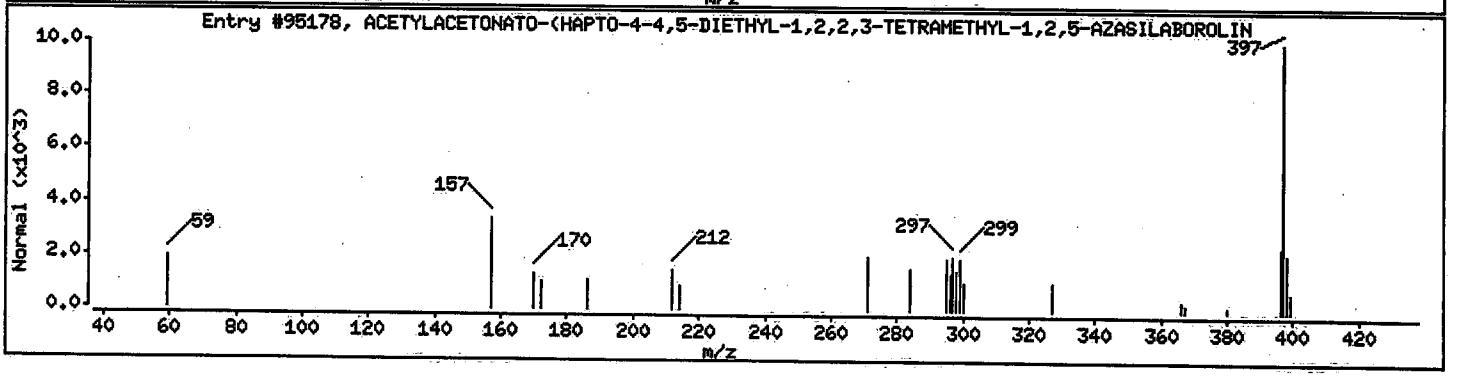
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3,4,5-Tetrabromo-1-methylpyrrole	56454-29-6	WILEY.l	94582	36	C5H3Br4N	393
1,3,6-Triethyl-8-methyl-2,7-naphthyridin	88300-56-5	WILEY.l	47374	22	C15H20N2	228
ACETYLACETONATO-(HAPTO-4-4,5-DIETHYL-1,2	0-00-0	WILEY.l	95178	14	C15H29BNO2RhSi2	397









Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8370.d
Lab Smp Id: 0307090-06A
Inj Date : 18-JUL-2003 19:46
Operator : dce Inst ID: molly.i
Smp Info : 0307090-06A
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,SAMP
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 21-Jul-2003 10:54 kkuhrt Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.98000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.479	2556425	40.000
* 47 Acenaphthene-d10	16.569	3562759	40.000
* 65 Phenanthrene-d10	19.540	100034147	40.000
* 77 Chrysene-d12	24.818	6418198	40.000

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.563	1.002e+08	1567.51042	49000	56	NIST98.1	5851	11
Butylated Hydroxytoluene					CAS #: 128-37-0		
16.849	1.351e+08	1517.09704	47500	91	NIST98.1	126409	47
Oxirane, [[4-(1,1-dimethylethyl)phenoxy]					CAS #: 3101-60-8		
21.216	42968244	17.1814308	538	50	NIST98.1	80597	65
Oxirane, [(dodecyloxy)methyl]-					CAS #: 2461-18-9		
21.268	67444918	26.9687583	844	68	NIST98.1	16338	65
2-Butanone, 3,3-dimethyl-					CAS #: 75-97-8		
23.659	57961753	361.233792	11300	47	WILEY.1	115465	77
Chloromethaqualone					CAS #: 3166-54-9		
25.149	61897351	385.761535	12100	50	NIST98.1	95864	77
Phenol, 4,4'-methylenebis[2-(1,1-dimethy					CAS #: 96-65-1		
25.874	2.849e+08	1775.27637	55500	55	NIST98.1	101614	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.102	27245639	169.802415	5310	74	NIST98.1	66803	77
9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra					CAS #: 58325-09-0		
26.247	53542632	333.692598	10400	80	WILEY.1	43026	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.288	34179191	213.014243	6660	78	NIST98.1	66803	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.350	69922239	435.774871	13600	56	NIST98.1	66803	77
1,2-Benzenedicarboxylic acid, bis(4-meth					CAS #: 146-50-9		
26.402	78121383	486.874225	15200	50	NIST98.1	66750	77
1,2-Benzenedicarboxylic acid, diisononyl					CAS #: 28553-12-0		
26.464	93325433	581.630099	18200	83	NIST98.1	66803	77
1,2-Benzenedicarboxylic acid, bis(4-meth					CAS #: 146-50-9		
26.526	62710612	390.830004	12200	58	NIST98.1	66750	77
1,2-Benzenedicarboxylic acid, heptyl oct					CAS #: 88216-58-4		
26.578	38116688	237.553819	7430	53	NIST98.1	67005	77(L)

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Oxirane, 2,2'-[(1-methylethylidene)bis(4					CAS #: 1675-54-3		
27.240	3.095e+09	19287.9056	604000	91	NIST98.1	101615	77
Nickel(II), [bis(4-methylsalicylidene)ac					CAS #: 1000164-61-6		
27.385	29375607	183.076967	5730	50	NIST98.1	103983	77
4,4',4"-Trinitro-(ortho-terphenyl)					CAS #: 60366-46-3		
27.592	28627041	178.411692	5580	50	WILEY.1	89597	77
BISTRIMETHYLSILYL MERCURY					CAS #: 13294-23-0		
28.058	1.383e+08	861.713847	27000	17	WILEY.1	91661	77
BENTHAMIANIN TETRA-O-METHYL ETHER					CAS #: 72947-70-7		
28.182	34554812	215.355212	6740	25	WILEY.1	95697	77
2,3,7-TRIMETHYL-1H-IMIDAZO(11, 2-A) PYRR					CAS #: 63282-66-6		
28.482	53692168	334.624552	10500	18	WILEY.1	34409	77
2,3,4,5-Tetrabromo-1-methylpyrrole					CAS #: 56454-29-6		
29.476	32125981	200.218062	6260	36	WILEY.1	94582	77

QC Flag Legend

L - Operator selected an alternate library search match.

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302842 **Sample Type:** MBLK **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	ND		329.0	µg/Kg	1	7/17/2003 12:44:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	ND		329.0	µg/Kg	1			
1,2-Dichlorobenzene	ND		329.0	µg/Kg	1			
1,3-Dichlorobenzene	ND		329.0	µg/Kg	1			
1,4-Dichlorobenzene	ND		329.0	µg/Kg	1			
2,2´-Oxybis(1-chloropropane)	ND		329.0	µg/Kg	1			
2,4,5-Trichlorophenol	ND		828.0	µg/Kg	1			
2,4,6-Trichlorophenol	ND		329.0	µg/Kg	1			
2,4-Dichlorophenol	ND		329.0	µg/Kg	1			
2,4-Dimethylphenol	ND		329.0	µg/Kg	1			
2,4-Dinitrophenol	ND		329.0	µg/Kg	1			
2,4-Dinitrotoluene	ND		329.0	µg/Kg	1			
2,6-Dinitrotoluene	ND		329.0	µg/Kg	1			
2-Chloronaphthalene	ND		329.0	µg/Kg	1			
2-Chlorophenol	ND		329.0	µg/Kg	1			
2-Methylnaphthalene	ND		329.0	µg/Kg	1			
2-Methylphenol	ND		329.0	µg/Kg	1			
2-Nitroaniline	ND		828.0	µg/Kg	1			
2-Nitrophenol	ND		329.0	µg/Kg	1			
3,3´-Dichlorobenzidine	ND		828.0	µg/Kg	1			
3-Nitroaniline	ND		828.0	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		828.0	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		329.0	µg/Kg	1			
4-Chloro-3-methylphenol	ND		329.0	µg/Kg	1			
4-Chloroaniline	ND		329.0	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		329.0	µg/Kg	1			
4-Methylphenol	ND		329.0	µg/Kg	1			
4-Nitroaniline	ND		828.0	µg/Kg	1			
4-Nitrophenol	ND		828.0	µg/Kg	1			
Acenaphthene	ND		329.0	µg/Kg	1			
Acenaphthylene	ND		329.0	µg/Kg	1			
Acetophenone	ND		329.0	µg/Kg	1			
Anthracene	ND		329.0	µg/Kg	1			
Atrazine	ND		329.0	µg/Kg	1			
Benz(a)anthracene	ND		329.0	µg/Kg	1			
Benzaldehyde	ND		299.0 UJ	µg/Kg	1			
Benzo(a)pyrene	ND		329.0	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302842 **Sample Type:** MBLK **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		329.0	µg/Kg	1			
Benzo(g,h,i)perylene	ND		329.0	µg/Kg	1			
Benzo(k)fluoranthene	ND		329.0	µg/Kg	1			
Benzoic acid	ND		828.0	µg/Kg	1			
Benzyl alcohol	ND		329.0	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		329.0	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		329.0	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	ND		329.0	µg/Kg	1			
Butyl benzyl phthalate	ND		329.0	µg/Kg	1			
Caprolactam	ND		329.0	µg/Kg	1			
Carbazole	ND		329.0	µg/Kg	1			
Chrysene	ND		329.0	µg/Kg	1			
Di-n-butyl phthalate	ND		329.0	µg/Kg	1			
Di-n-octyl phthalate	ND		329.0	µg/Kg	1			
Dibenz(a,h)anthracene	ND		329.0	µg/Kg	1			
Dibenzofuran	ND		329.0	µg/Kg	1			
Diethyl phthalate	ND		329.0	µg/Kg	1			
Dimethyl phthalate	ND		329.0	µg/Kg	1			
Fluoranthene	ND		329.0	µg/Kg	1			
Fluorene	ND		329.0	µg/Kg	1			
Hexachlorobenzene	ND		329.0	µg/Kg	1			
Hexachlorobutadiene	ND		329.0	µg/Kg	1			
Hexachlorocyclopentadiene	ND		828.0 UJ	µg/Kg	1			
Hexachloroethane	ND		329.0	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		329.0	µg/Kg	1			
Isophorone	ND		329.0	µg/Kg	1			
N-Nitrosodi-n-propylamine	ND		329.0	µg/Kg	1			
N-Nitrosodimethylamine	ND		329.0	µg/Kg	1			
N-Nitrosodiphenylamine	ND		329.0	µg/Kg	1			
Naphthalene	ND		329.0	µg/Kg	1			
Nitrobenzene	ND		329.0	µg/Kg	1			
Pentachlorophenol	ND		828.0	µg/Kg	1			
Phenanthrene	ND		329.0	µg/Kg	1			
Phenol	ND		329.0	µg/Kg	1			
Pyrene	ND		329.0	µg/Kg	1			
Surr:2,4,6-Tribromophenol	87		32 - 130	%REC	1	7/17/2003 12:44:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	84		27 - 123	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
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Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: MB-200302842 **Sample Type:** MBLK **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	80		36 - 135	%REC	1			
Surr:Nitrobenzene-d5	94		25 - 122	%REC	1			
Surr:Phenol-d5	98		36 - 128	%REC	1			
Surr:Terphenyl-d14	125	*	51 - 116	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

CLIENT: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Lab ID: MB-200302842 **Sample Type:** MBLK

Client Sample ID:
Alt. Client ID:
Collection Date:
Matrix: SOIL/SOLID **% Moist:**

TENTATIVELY IDENTIFIED COMPOUNDS

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Units	DF	Date Analyzed	Run Batch ID	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C 1_8270C_3550B_TCL_S									
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.62	66700	NJ	µg/Kg	1	7/17/2003 12:44:00 PM	MOLLY_030717A	DCE
	Unknown	7.04	115	J	µg/Kg	1			

Number TICs Found: 2

Definitions:

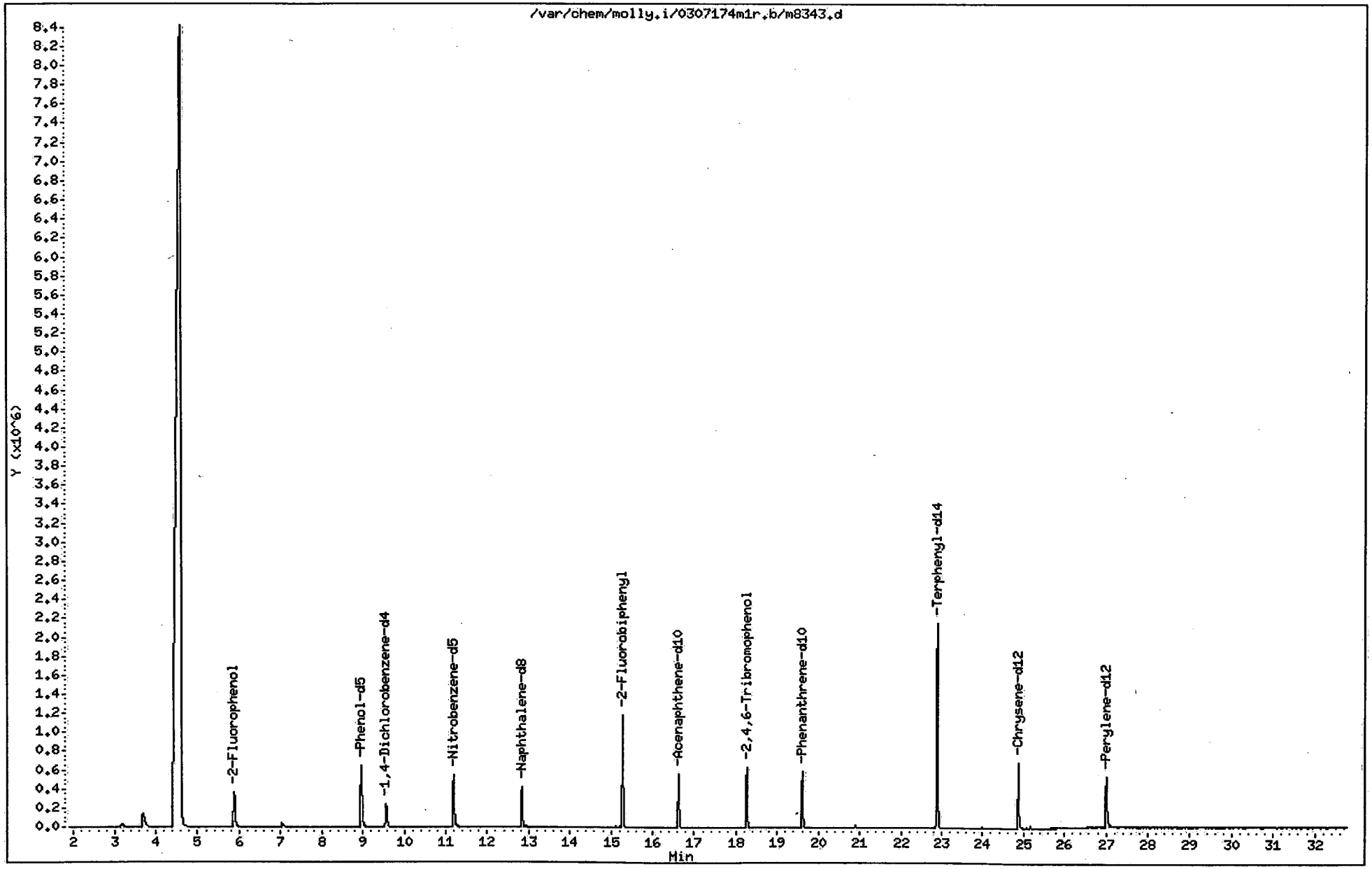
ND - Not Detected at the Reporting Limit
J - Analyte detected below Reporting limits
B - Analyte detected in the associated Method Blank
H - Value exceeds Maximum Contaminant Level
* - Recovery outside limits
R - RPD outside recovery limits
E - Value above quantitation range
Surr - Denotes Surrogate Compound
M -Matrix Spike recovery outside limits
Q - Qualifier
D - Diluted Out
N - Single Column Analysis

LIMS Version #: 3.1.6.9 - 6/30/2003 12:30:00 PM

Monday, July 21, 2003 1:22:07 PM

Data File: /var/chem/molly.i/0307174m1r.b/m8343.d
Date : 17-JUL-2003 12:44
Client ID:
Sample Info: MB-200302842
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8343.d
Lab Smp Id: MB-200302842
Inj Date : 17-JUL-2003 12:44
Operator : dce Inst ID: molly.i
Smp Info : MB-200302842
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,MBLK
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.878	5.879	(0.615)	277944	96.4312	1600
$ 6 Phenol-d5	99	8.962	8.964	(0.937)	487382	117.538	1950
* 11 1,4-Dichlorobenzene-d4	152	9.562	9.564	(1.000)	91521	40.0000	
$ 21 Nitrobenzene-d5	82	11.187	11.189	(0.872)	423074	94.0330	1560
* 30 Naphthalene-d8	136	12.833	12.824	(1.000)	330860	40.0000	
$ 40 2-Fluorobiphenyl	172	15.276	15.277	(0.919)	578146	84.2294	1400
* 47 Acenaphthene-d10	164	16.621	16.623	(1.000)	202693	40.0000	
$ 60 2,4,6-Tribromophenol	330	18.257	18.258	(1.098)	97106	104.773	1740
* 65 Phenanthrene-d10	188	19.602	19.593	(1.000)	413627	40.0000	
$ 73 Terphenyl-d14	244	22.893	22.895	(0.920)	1155682	125.118	2080(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 77 Chrysene-d12	240	24.870	24.861	(1.000)	532365	40.0000	
* 84 Perylene-d12	264	27.002	27.004	(1.000)	337653	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/molly.i/0307174m1r.b/m8343.d

Date : 17-JUL-2003 12:44

Client ID:

Instrument: molly.i

Sample Info: MB-200302842

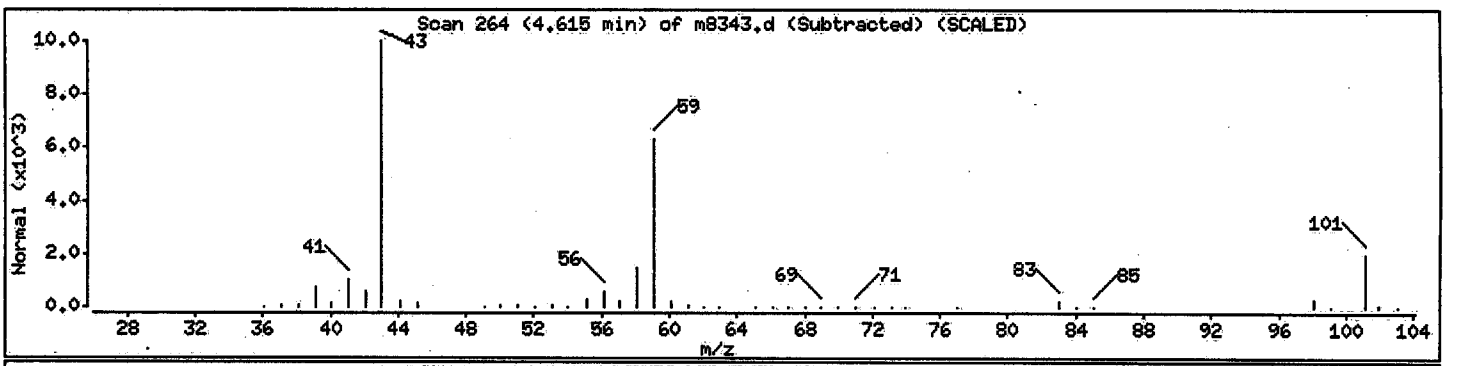
Volume Injected (uL): 2.0

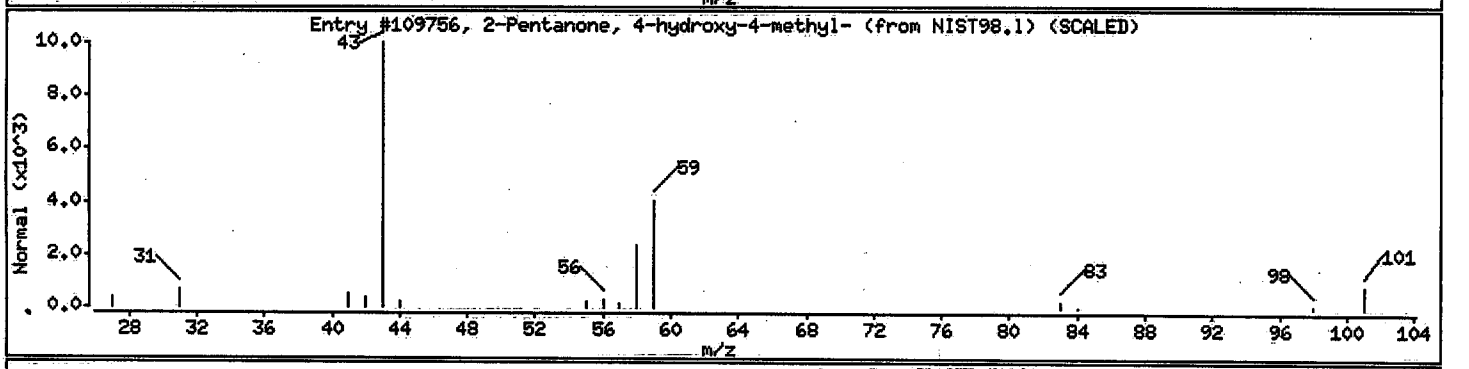
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109756	56	C6H12O2	116





Data File: /var/chem/molly.i/0307174m1r.b/m8343.d

Date : 17-JUL-2003 12:44

Client ID:

Instrument: molly.i

Sample Info: MB-200302842

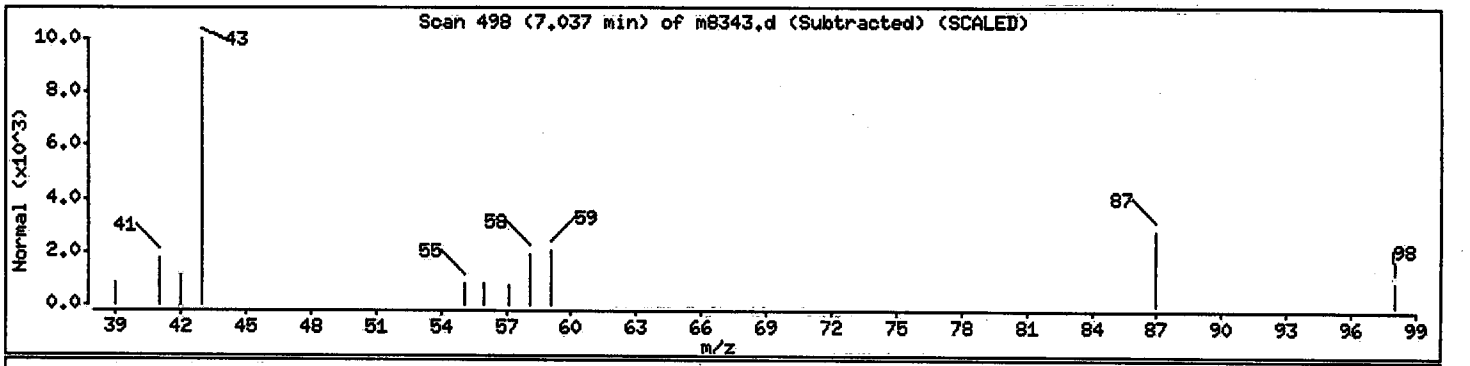
Volume Injected (uL): 2.0

Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8343.d
Lab Smp Id: MB-200302842
Inj Date : 17-JUL-2003 12:44
Operator : dce Inst ID: molly.i
Smp Info : MB-200302842
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,MBLK
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	30.08000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 11 1,4-Dichlorobenzene-d4	9.562	611627	40.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
4.615	61384481	4014.49865	66700	56	NIST98.1	109756	11

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
7.037	105849	6.92247398	115	0		0	11

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:** BBW-ML-01
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** 7/9/2003 1:45:00 PM **% Moist:**
Lab ID: 0307090-05AMS **Sample Type:** MS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	123.8	J	633.0	µg/Kg	1	7/18/2003 9:05:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	1721		633.0	µg/Kg	1			
1,2-Dichlorobenzene	ND		633.0	µg/Kg	1			
1,3-Dichlorobenzene	ND		633.0	µg/Kg	1			
1,4-Dichlorobenzene	1608		633.0	µg/Kg	1			
2,2´-Oxybis(1-chloropropane)	ND		633.0	µg/Kg	1			
2,4,5-Trichlorophenol	ND		1590	µg/Kg	1			
2,4,6-Trichlorophenol	ND		633.0	µg/Kg	1			
2,4-Dichlorophenol	ND		633.0	µg/Kg	1			
2,4-Dimethylphenol	277.5	J	633.0	µg/Kg	1			
2,4-Dinitrophenol	ND		633.0	µg/Kg	1			
2,4-Dinitrotoluene	1939		633.0	µg/Kg	1			
2,6-Dinitrotoluene	ND		633.0	µg/Kg	1			
2-Chloronaphthalene	ND		633.0	µg/Kg	1			
2-Chlorophenol	1957		633.0	µg/Kg	1			
2-Methylnaphthalene	813.6		633.0	µg/Kg	1			
2-Methylphenol	304.8	J	633.0	µg/Kg	1			
2-Nitroaniline	ND		1590	µg/Kg	1			
2-Nitrophenol	ND		633.0	µg/Kg	1			
3,3´-Dichlorobenzidine	ND		1590	µg/Kg	1			
3-Nitroaniline	ND		1590	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		1590	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		633.0	µg/Kg	1			
4-Chloro-3-methylphenol	2454		633.0	µg/Kg	1			
4-Chloroaniline	ND		633.0	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		633.0	µg/Kg	1			
4-Methylphenol	691.8		633.0	µg/Kg	1			
4-Nitroaniline	ND		1590	µg/Kg	1			
4-Nitrophenol	3393	M	1590	µg/Kg	1			
Acenaphthene	2035		633.0	µg/Kg	1			
Acenaphthylene	85.49	J	633.0	µg/Kg	1			
Acetophenone	339.4	J	633.0	µg/Kg	1			
Anthracene	ND		633.0	µg/Kg	1			
Atrazine	ND		633.0	µg/Kg	1			
Benz(a)anthracene	ND		633.0	µg/Kg	1			
Benzaldehyde	657.6		575.0	µg/Kg	1			
Benzo(a)pyrene	ND		633.0	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
% Moist:
Lab ID: 0307090-05AMS **Sample Type:** MS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		633.0	µg/Kg	1			
Benzo(g,h,i)perylene	ND		633.0	µg/Kg	1			
Benzo(k)fluoranthene	ND		633.0	µg/Kg	1			
Benzoic acid	970.2	J	1590	µg/Kg	1			
Benzyl alcohol	ND		633.0	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		633.0	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		633.0	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	2272		633.0	µg/Kg	1			
Butyl benzyl phthalate	643.2		633.0	µg/Kg	1			
Caprolactam	1053		633.0	µg/Kg	1			
Carbazole	154.0	J	633.0	µg/Kg	1			
Chrysene	82.00	J	633.0	µg/Kg	1			
Di-n-butyl phthalate	12110	E	633.0	µg/Kg	1			
Di-n-octyl phthalate	1243		633.0	µg/Kg	1			
Dibenz(a,h)anthracene	ND		633.0	µg/Kg	1			
Dibenzofuran	546.4	J	633.0	µg/Kg	1			
Diethyl phthalate	926.1		633.0	µg/Kg	1			
Dimethyl phthalate	186.2	J	633.0	µg/Kg	1			
Fluoranthene	2691		633.0	µg/Kg	1			
Fluorene	387.3	J	633.0	µg/Kg	1			
Hexachlorobenzene	ND		633.0	µg/Kg	1			
Hexachlorobutadiene	ND		633.0	µg/Kg	1			
Hexachlorocyclopentadiene	ND		1590	µg/Kg	1			
Hexachloroethane	ND		633.0	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		633.0	µg/Kg	1			
Isophorone	ND		633.0	µg/Kg	1			
N-Nitrosodi-n-propylamine	1870		633.0	µg/Kg	1			
N-Nitrosodimethylamine	ND		633.0	µg/Kg	1			
N-Nitrosodiphenylamine	341.6	J	633.0	µg/Kg	1			
Naphthalene	438.4	J	633.0	µg/Kg	1			
Nitrobenzene	ND		633.0	µg/Kg	1			
Pentachlorophenol	834.9	JM	1590	µg/Kg	1			
Phenanthrene	4757		633.0	µg/Kg	1			
Phenol	7864	E	633.0	µg/Kg	1			
Pyrene	5115	E	633.0	µg/Kg	1			
Surr:2,4,6-Tribromophenol	81		32 - 130	%REC	1	7/18/2003 9:05:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	67		27 - 123	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
% Moist:
Lab ID: 0307090-05AMS **Sample Type:** MS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	73		36 - 135	%REC	1			
Surr:Nitrobenzene-d5	80		25 - 122	%REC	1			
Surr:Phenol-d5	94		36 - 128	%REC	1			
Surr:Terphenyl-d14	152	*	51 - 116	%REC	1			

Definitions:

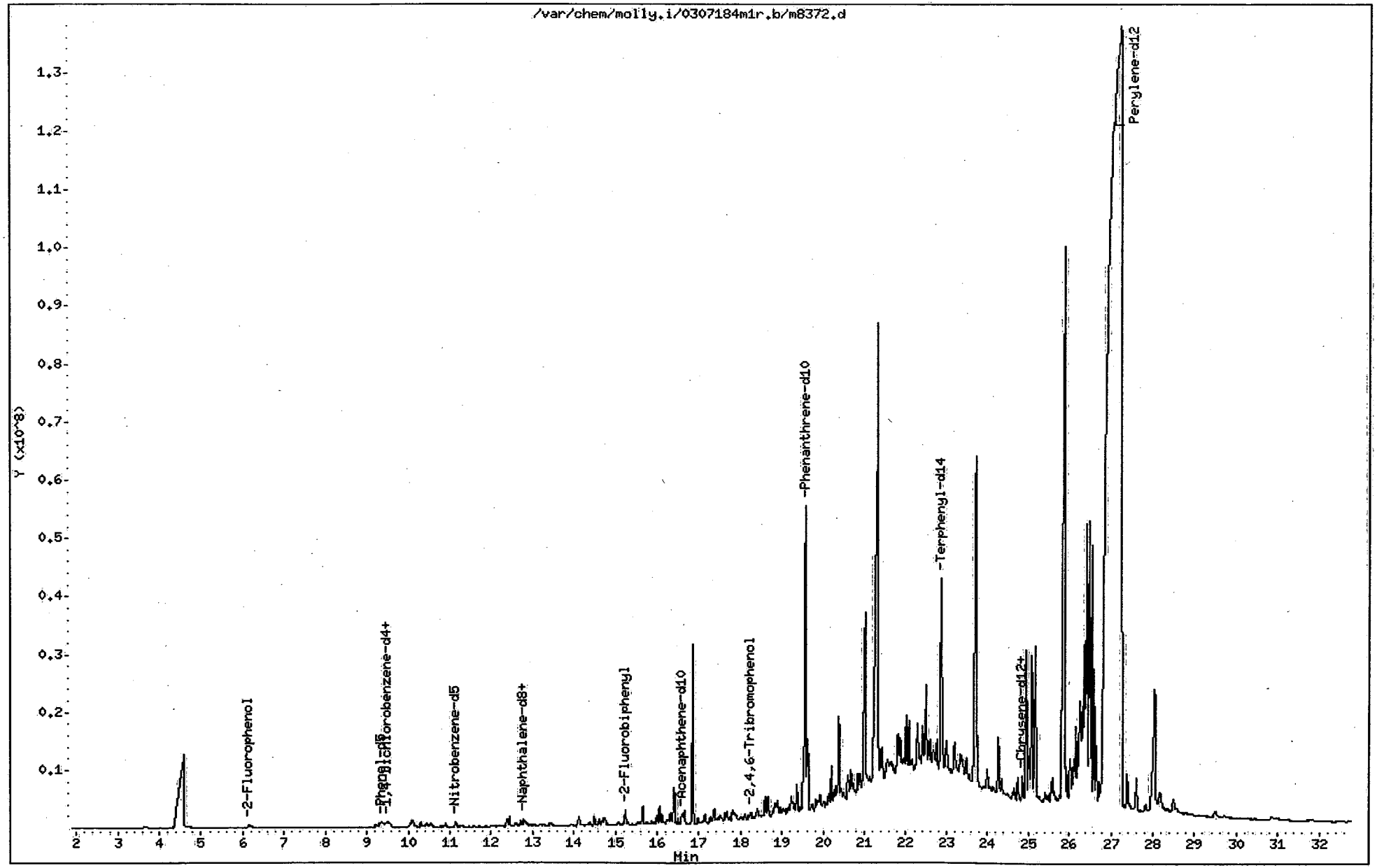
* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

980

Data File: /var/chem/molly.i/0307184m1r.b/m8372.d
Date : 18-JUL-2003 21:05
Client ID:
Sample Info: 0307090-05AMS
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i

Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8372.d
Lab Smp Id: 0307090-05AMS
Inj Date : 18-JUL-2003 21:05
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05AMS
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,MS
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.64000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	6.148	5.995	(0.647)	387461	87.1720	2790
4 Benzaldehyde	77	8.290	8.210	(0.873)	86800	20.5703	658
$ 6 Phenol-d5	99	9.315	9.121	(0.980)	724540	113.308	3620(MH) DCE 7/21/03
7 Phenol	94	9.470	9.162	(0.997)	1773549	245.973	7860(AM) DCE 7/21/03
9 2-Chlorophenol	128	9.222	9.111	(0.971)	304732	61.2273	1960
* 11 1,4-Dichlorobenzene-d4	152	9.501	9.494	(1.000)	141134	40.0000	
12 1,4-Dichlorobenzene	146	9.553	9.545	(1.005)	286194	50.3134	1610
15 2-Methylphenol	108	10.857	10.736	(1.143)	48363	9.53350	305(a)
17 Acetophenone	105	10.795	10.767	(1.136)	90720	10.6149	339
18 4-Methylphenol	108	11.261	11.129	(1.185)	119758	21.6396	692

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
	19 N-Nitrosodi-n-propylamine	70	10.909	10.891	(1.148)	301664	58.4849	1870
$	21 Nitrobenzene-d5	82	11.147	11.129	(0.871)	612075	80.4322	2570
	25 2,4-Dimethylphenol	107	12.399	12.319	(0.969)	60783	8.67902	277(aH)
	27 Benzoic acid	122	12.824	12.723	(1.002)	99187	30.3491	970(H)
	29 1,2,4-Trichlorobenzene	180	12.720	12.713	(0.994)	293922	53.8262	1720
*	30 Naphthalene-d8	136	12.793	12.775	(1.000)	559607	40.0000	
	31 Naphthalene	128	12.834	12.816	(1.003)	223076	13.7116	438
	34 Caprolactam	113	13.941	13.758	(1.090)	60439	32.9368	1050(H)
	35 4-chloro-3-methylphenol	107	14.500	14.389	(1.133)	483700	76.7658	2450(H)
	36 2-Methylnaphthalene	141	14.376	14.369	(1.124)	245828	25.4493	814
$	40 2-Fluorobiphenyl	172	15.246	15.228	(0.919)	989796	67.0918	2140
	42 Biphenyl	154	15.411	15.393	(0.929)	68346	3.87387	124(a)
	44 Dimethyl phthalate	163	16.218	16.201	(0.978)	103353	5.82253	186(a)
	45 Acenaphthylene	152	16.260	16.242	(0.981)	59532	2.67370	85.5(aQ)
*	47 Acenaphthene-d10	164	16.581	16.563	(1.000)	435654	40.0000	
	49 Acenaphthene	153	16.643	16.635	(1.004)	890343	63.6488	2030
	51 4-Nitrophenol	109	17.502	17.298	(1.056)	356931	106.131	3390
	52 Dibenzofuran	168	16.984	16.966	(1.024)	345135	17.0920	546
	53 2,4-Dinitrotoluene	165	17.140	17.122	(1.034)	337669	60.6467	1940
	54 Diethyl phthalate	149	17.667	17.650	(1.066)	550432	28.9690	926
	55 Fluorene	166	17.678	17.670	(1.066)	198384	12.1144	387
	59 N-Nitrosodiphenylamine	169	18.009	17.981	(0.920)	270685	10.6853	342
$	60 2,4,6-Tribromophenol	330	18.257	18.219	(1.101)	193784	97.2786	3110
	64 Pentachlorophenol	266	19.448	19.368	(0.994)	107899	26.1155	835
*	65 Phenanthrene-d10	188	19.572	19.544	(1.000)	1713529	40.0000	
	66 Phenanthrene	178	19.624	19.585	(1.003)	7482681	148.805	4760
	68 Carbazole	167	20.131	20.071	(1.029)	221746	4.81830	154(a)
	69 Di-n-butyl phthalate	149	21.011	20.951	(1.073)	24479233	378.762	12100(A)
	70 Fluoranthene	202	22.066	21.997	(1.127)	5169670	84.1817	2690
	72 Pyrene	202	22.511	22.431	(0.906)	9540835	160.005	5120(A)
$	73 Terphenyl-d14	244	22.894	22.835	(0.921)	5709733	152.175	4860(R)
	74 Butyl benzyl phthalate	149	23.991	23.942	(0.965)	603582	20.1198	643
*	77 Chrysene-d12	240	24.850	24.812	(1.000)	2162528	40.0000	
	78 Chrysene	228	24.881	24.853	(1.001)	155615	2.56521	82.0(a)
	79 Bis(2-ethylhexyl)phthalate	149	25.078	25.040	(1.009)	3212313	71.0543	2270
	80 Di-n-octyl phthalate	149	26.010	25.940	(1.047)	3048643	38.8780	1240
*	84 Perylene-d12	264	27.024	26.944	(1.000)	739905	40.0000	

QC Flag Legend

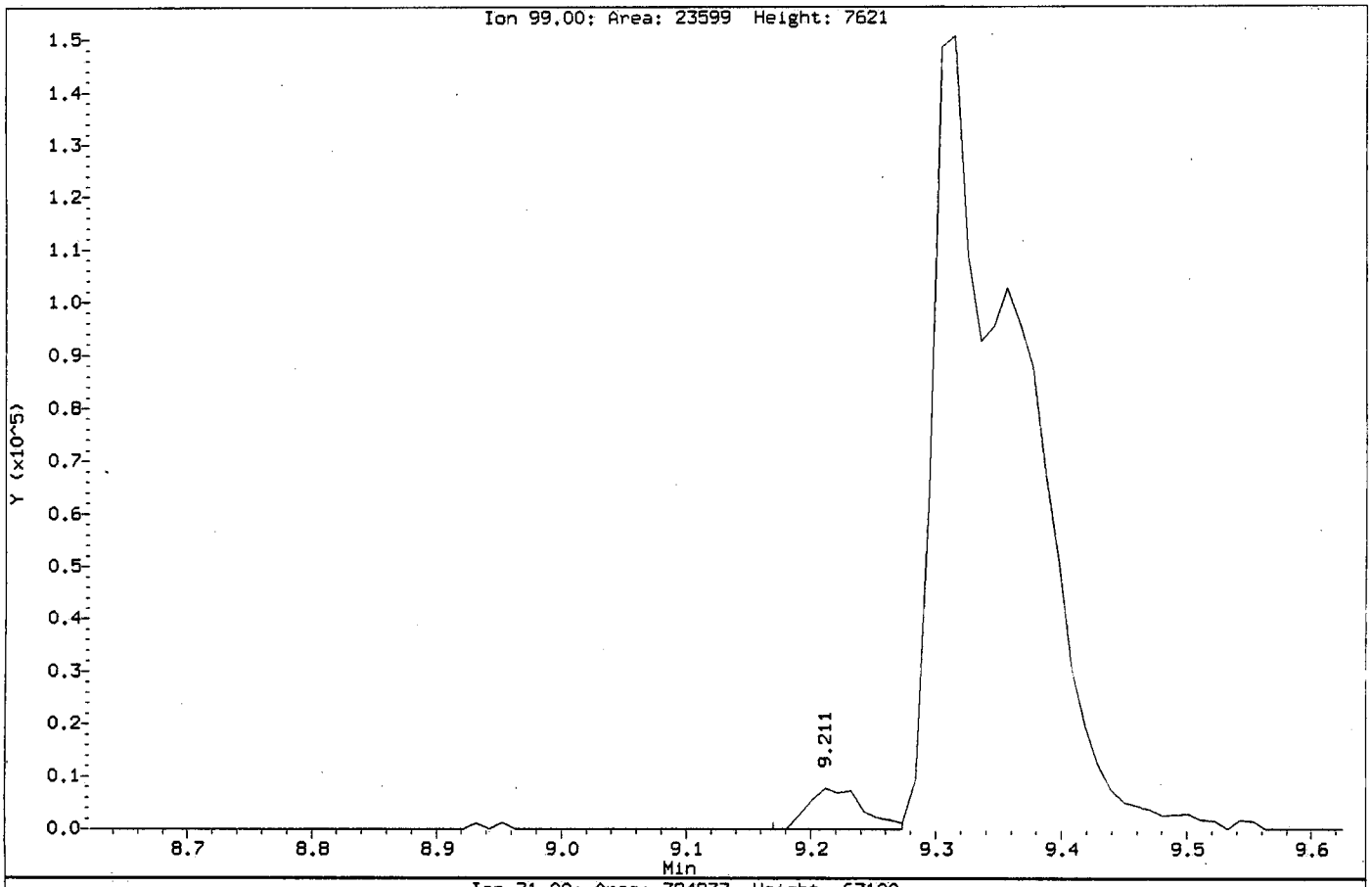
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

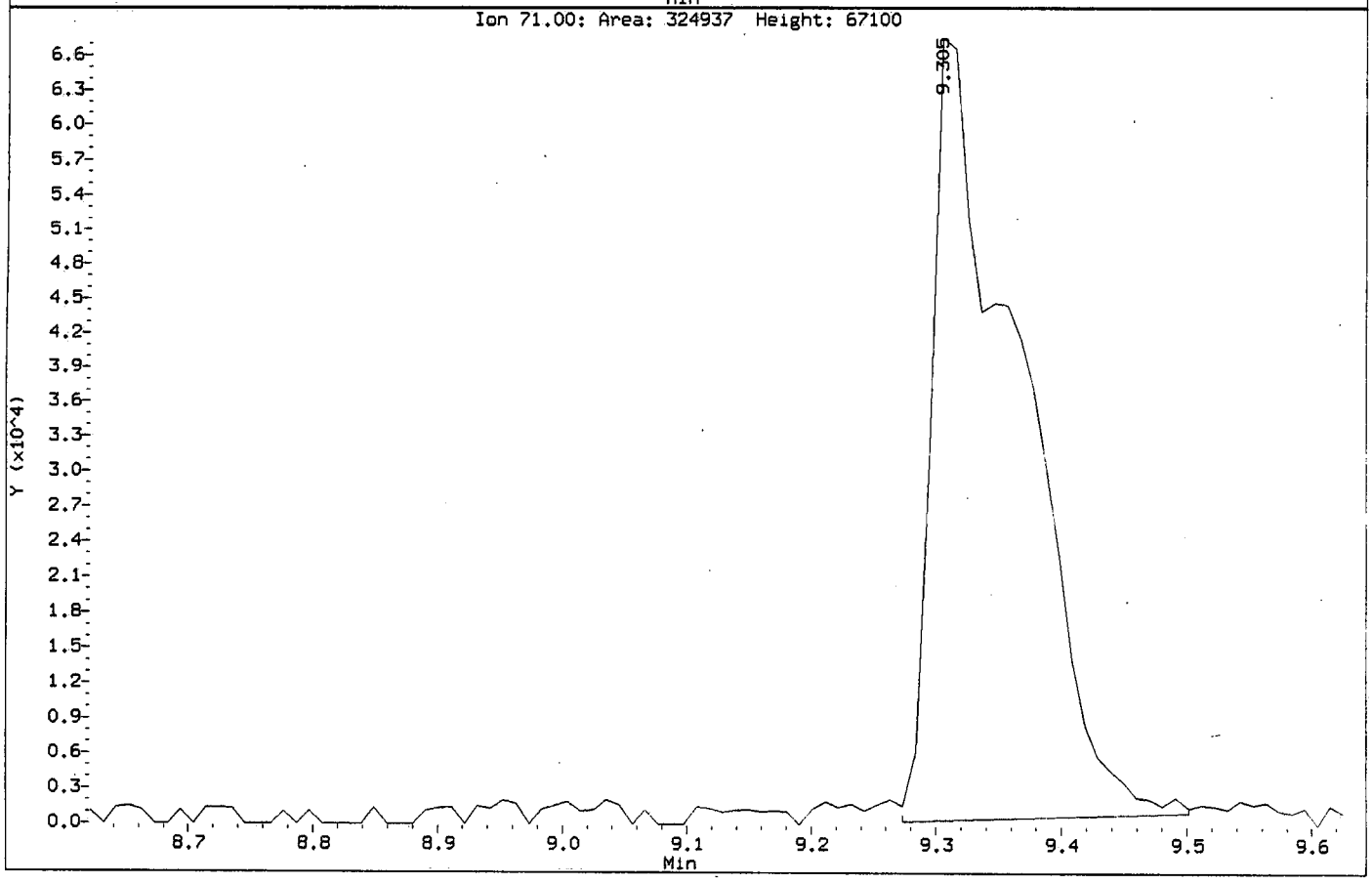
QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8372.d
Injection Date: 18-JUL-2003 21:05
Instrument: molly.i
Client Sample ID:

Compound: Phenol-d5
CAS Number: 4165-62-2

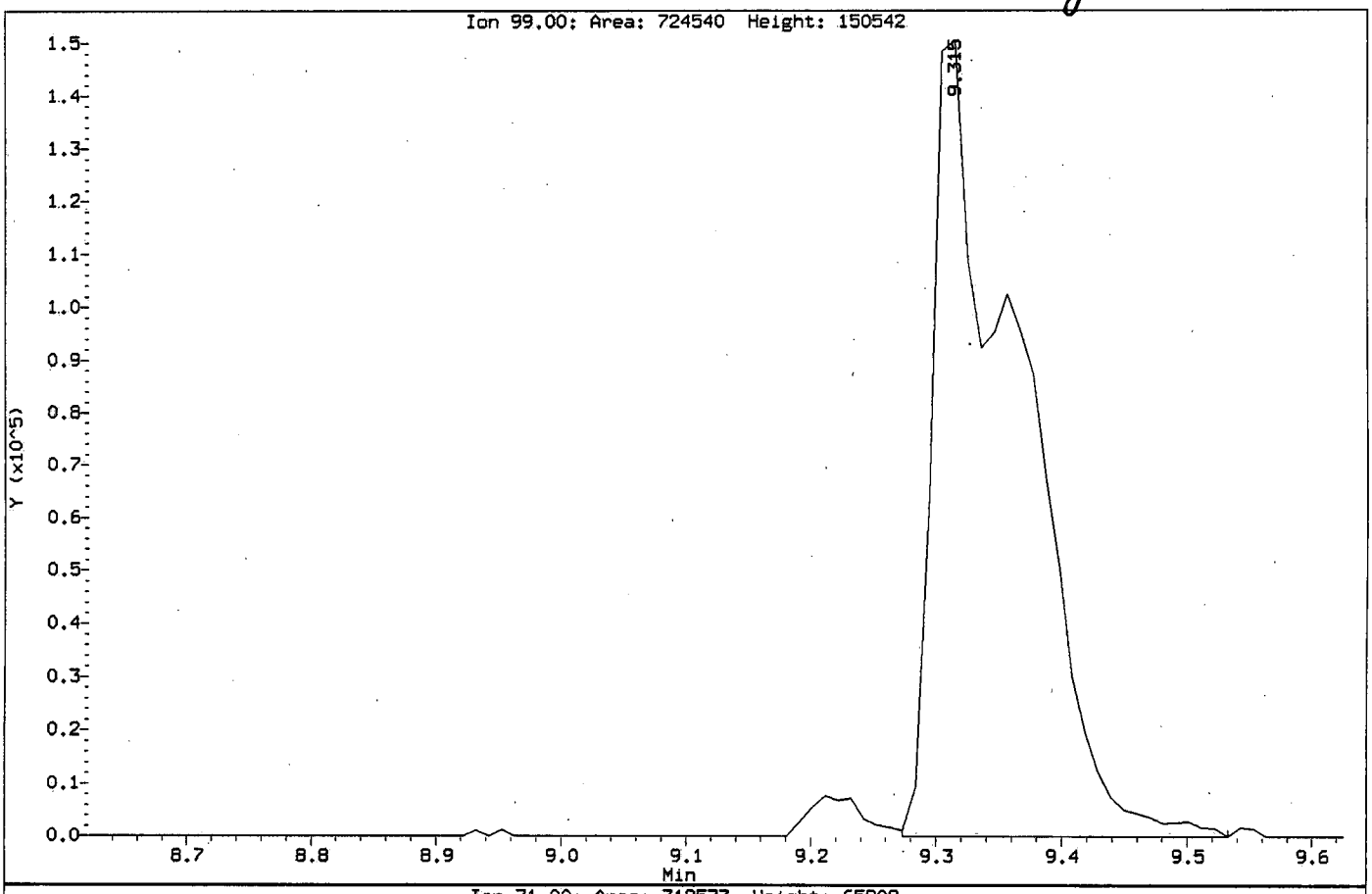


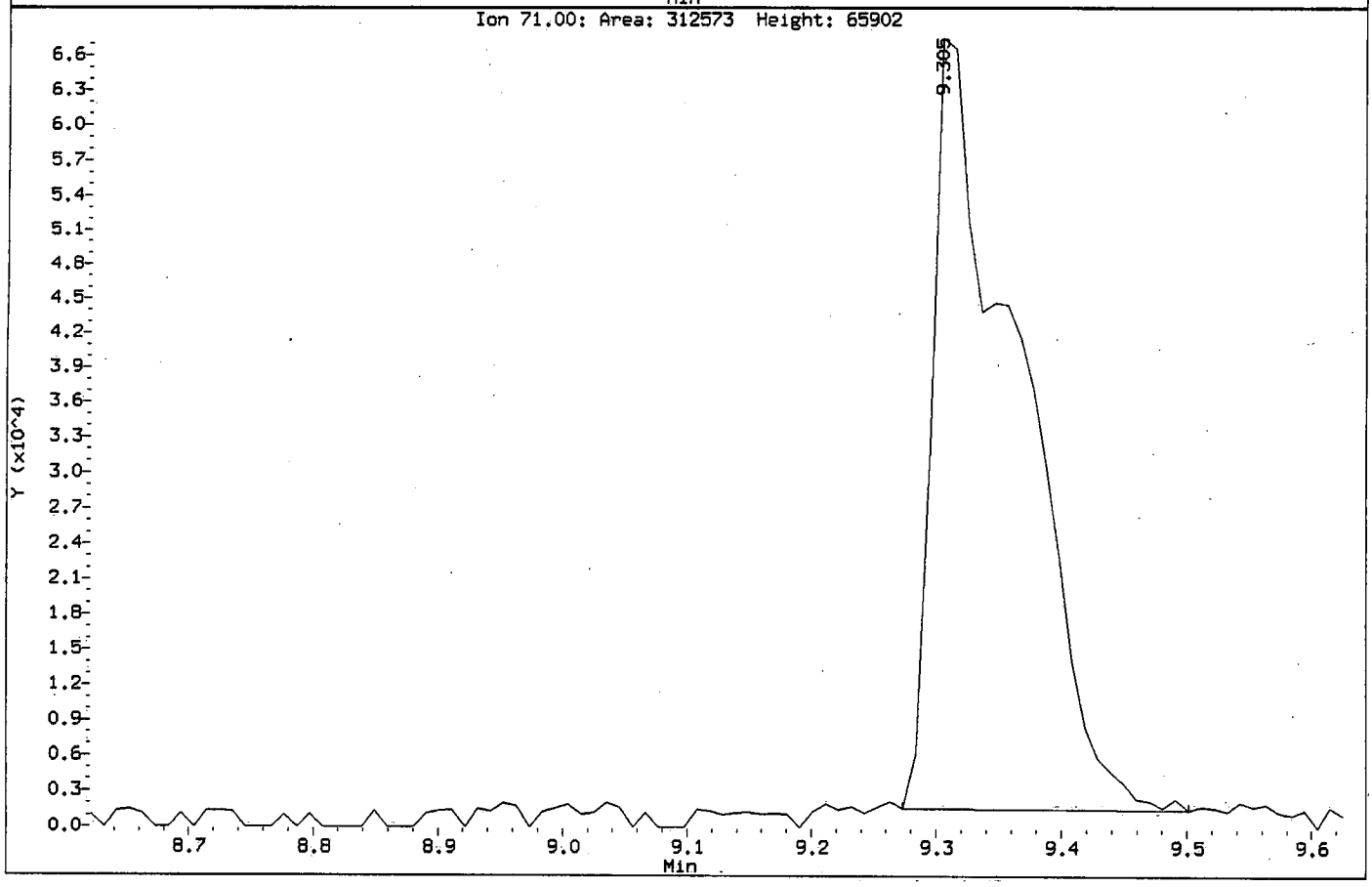


Data File: /var/chem/molly.i/0307184mir.b/m8372.d
Injection Date: 18-JUL-2003 21:05
Instrument: molly.i
Client Sample ID:

Compound: Phenol-d5
CAS Number: 4165-62-2

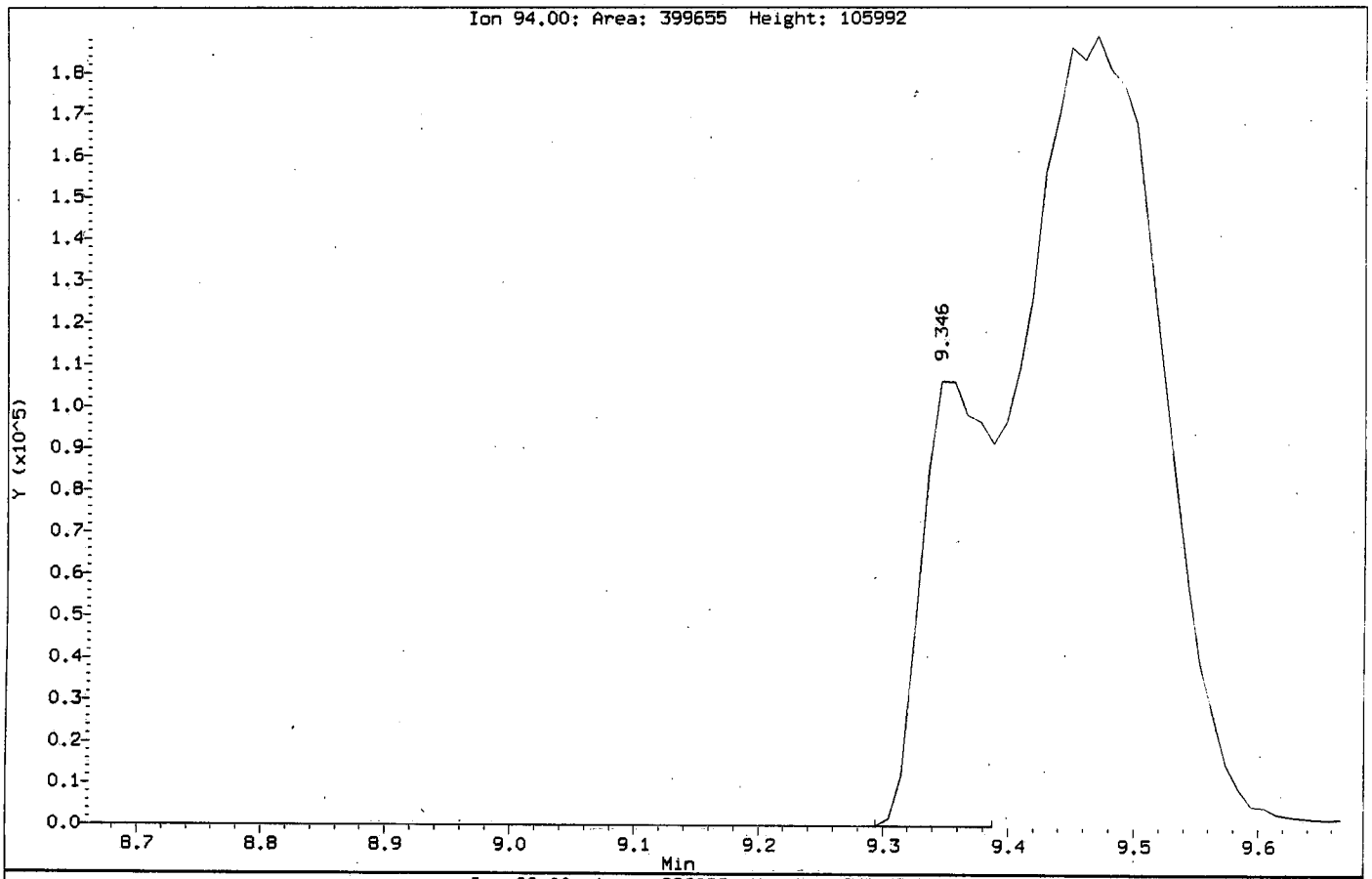
KL 7/21/03
select correct peak, integrate entire area
Kathy Kulnt 7/21/03

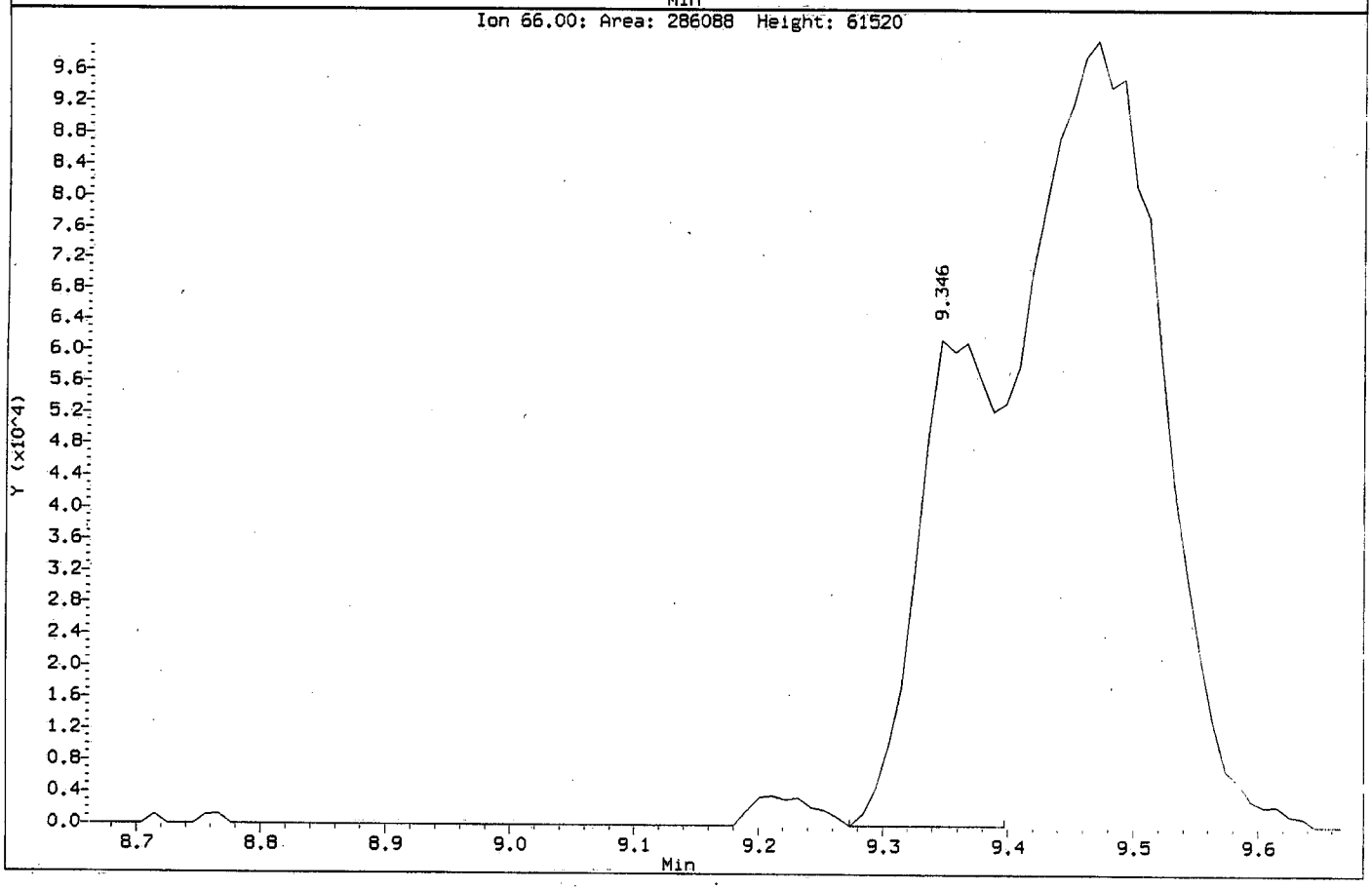




Data File: /var/chem/molly.i/0307184m1r.b/m8372.d
Injection Date: 18-JUL-2003 21:05
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

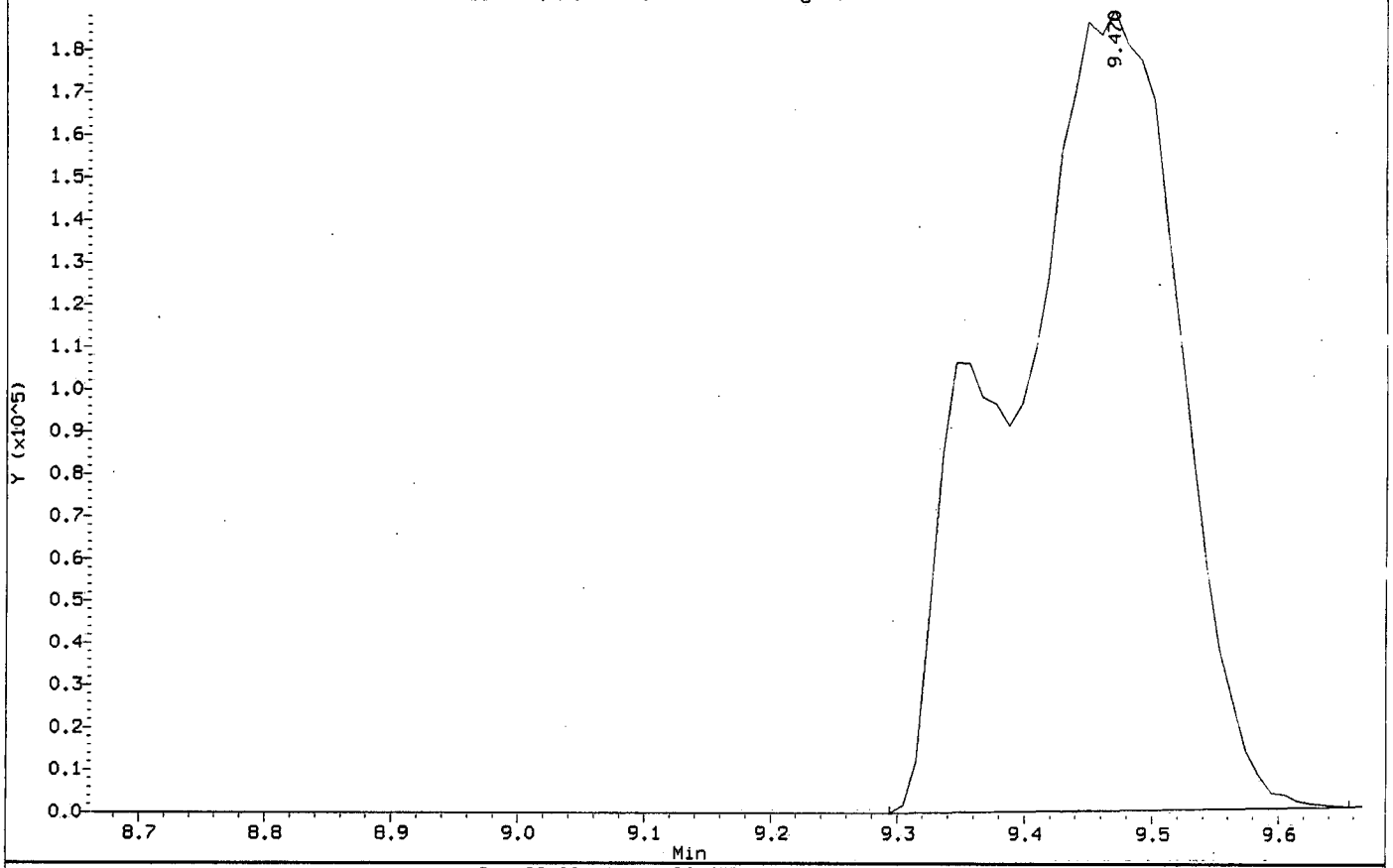




Data File: /var/chem/molly.i/0307184mir.b/m8372.d
Injection Date: 18-JUL-2003 21:05
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

Ion 94.00: Area: 1773549 Height: 187800



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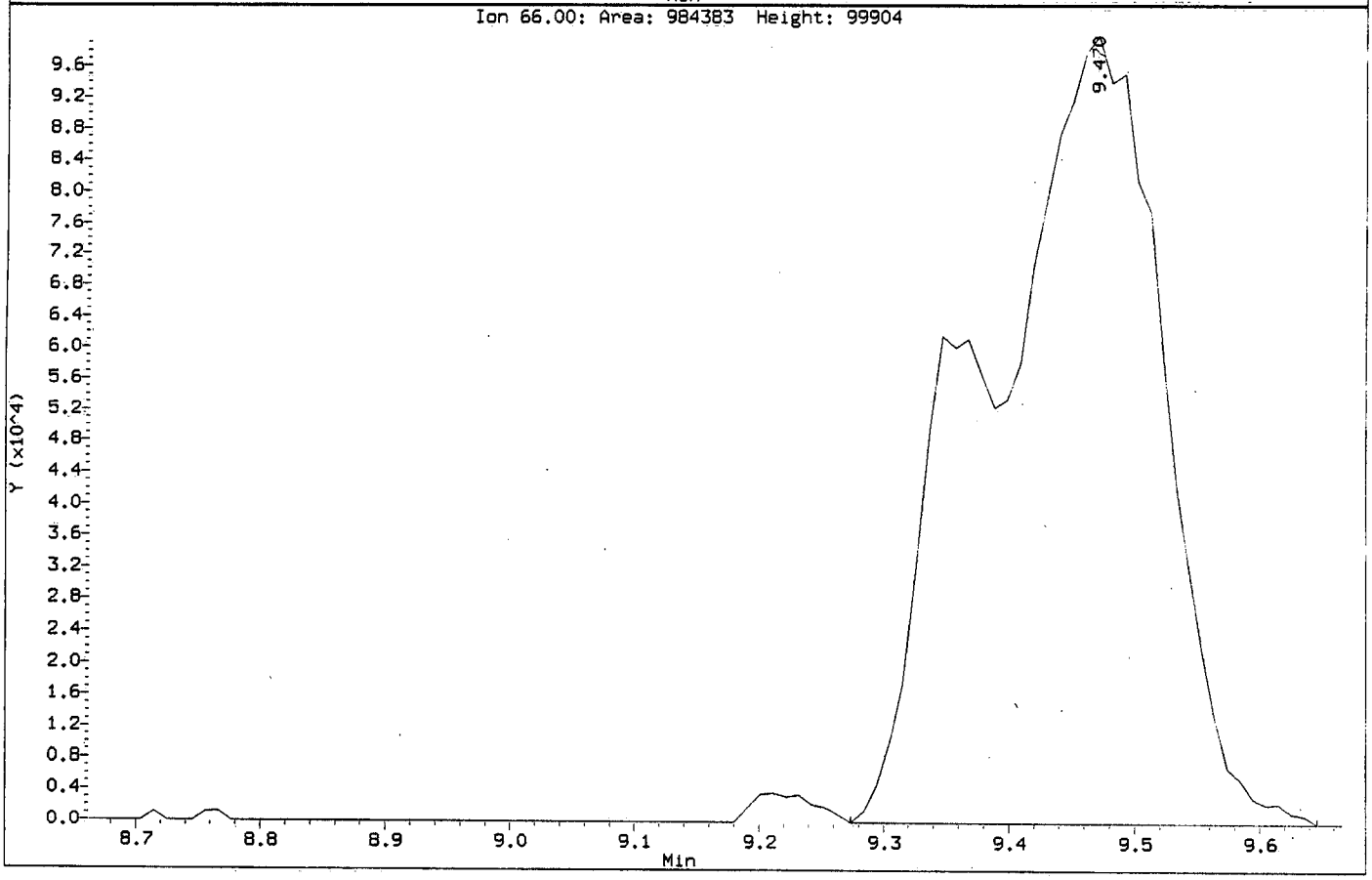


Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
% Moist:
Lab ID: 0307090-05AMSD **Sample Type:** MSD **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	113.6	J	631.0	µg/Kg	1	7/18/2003 9:45:00 PM	MOLLY_030718A	DCE
1,2,4-Trichlorobenzene	1560		631.0	µg/Kg	1			
1,2-Dichlorobenzene	ND		631.0	µg/Kg	1			
1,3-Dichlorobenzene	ND		631.0	µg/Kg	1			
1,4-Dichlorobenzene	1521		631.0	µg/Kg	1			
2,2´-Oxybis(1-chloropropane)	ND		631.0	µg/Kg	1			
2,4,5-Trichlorophenol	ND		1590	µg/Kg	1			
2,4,6-Trichlorophenol	ND		631.0	µg/Kg	1			
2,4-Dichlorophenol	ND		631.0	µg/Kg	1			
2,4-Dimethylphenol	283.0	J	631.0	µg/Kg	1			
2,4-Dinitrophenol	ND		631.0	µg/Kg	1			
2,4-Dinitrotoluene	1749		631.0	µg/Kg	1			
2,6-Dinitrotoluene	ND		631.0	µg/Kg	1			
2-Chloronaphthalene	ND		631.0	µg/Kg	1			
2-Chlorophenol	1828		631.0	µg/Kg	1			
2-Methylnaphthalene	850.7		631.0	µg/Kg	1			
2-Methylphenol	321.4	J	631.0	µg/Kg	1			
2-Nitroaniline	ND		1590	µg/Kg	1			
2-Nitrophenol	ND		631.0	µg/Kg	1			
3,3´-Dichlorobenzidine	ND		1590	µg/Kg	1			
3-Nitroaniline	ND		1590	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		1590	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		631.0	µg/Kg	1			
4-Chloro-3-methylphenol	2573		631.0	µg/Kg	1			
4-Chloroaniline	ND		631.0	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		631.0	µg/Kg	1			
4-Methylphenol	710.6		631.0	µg/Kg	1			
4-Nitroaniline	ND		1590	µg/Kg	1			
4-Nitrophenol	2813		1590	µg/Kg	1			
Acenaphthene	1870		631.0	µg/Kg	1			
Acenaphthylene	ND		631.0	µg/Kg	1			
Acetophenone	378.2	J	631.0	µg/Kg	1			
Anthracene	ND		631.0	µg/Kg	1			
Atrazine	ND		631.0	µg/Kg	1			
Benz(a)anthracene	ND		631.0	µg/Kg	1			
Benzaldehyde	1120		573.0	µg/Kg	1			
Benzo(a)pyrene	ND		631.0	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
% Moist:
Lab ID: 0307090-05AMSD **Sample Type:** MSD **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		631.0	µg/Kg	1			
Benzo(g,h,i)perylene	ND		631.0	µg/Kg	1			
Benzo(k)fluoranthene	ND		631.0	µg/Kg	1			
Benzoic acid	1239	J	1590	µg/Kg	1			
Benzyl alcohol	ND		631.0	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		631.0	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		631.0	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	2636		631.0	µg/Kg	1			
Butyl benzyl phthalate	748.2		631.0	µg/Kg	1			
Caprolactam	1304		631.0	µg/Kg	1			
Carbazole	ND		631.0	µg/Kg	1			
Chrysene	84.14	J	631.0	µg/Kg	1			
Di-n-butyl phthalate	11960	E	631.0	µg/Kg	1			
Di-n-octyl phthalate	920.1		631.0	µg/Kg	1			
Dibenz(a,h)anthracene	ND		631.0	µg/Kg	1			
Dibenzofuran	534.9	J	631.0	µg/Kg	1			
Diethyl phthalate	878.6		631.0	µg/Kg	1			
Dimethyl phthalate	170.1	J	631.0	µg/Kg	1			
Fluoranthene	2581		631.0	µg/Kg	1			
Fluorene	387.1	J	631.0	µg/Kg	1			
Hexachlorobenzene	ND		631.0	µg/Kg	1			
Hexachlorobutadiene	ND		631.0	µg/Kg	1			
Hexachlorocyclopentadiene	ND		1590	µg/Kg	1			
Hexachloroethane	ND		631.0	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		631.0	µg/Kg	1			
Isophorone	ND		631.0	µg/Kg	1			
N-Nitrosodi-n-propylamine	1748		631.0	µg/Kg	1			
N-Nitrosodimethylamine	ND		631.0	µg/Kg	1			
N-Nitrosodiphenylamine	390.0	J	631.0	µg/Kg	1			
Naphthalene	437.1	J	631.0	µg/Kg	1			
Nitrobenzene	ND		631.0	µg/Kg	1			
Pentachlorophenol	711.3	JM	1590	µg/Kg	1			
Phenanthrene	5059		631.0	µg/Kg	1			
Phenol	8015	E	631.0	µg/Kg	1			
Pyrene	5684	E	631.0	µg/Kg	1			
Surr:2,4,6-Tribromophenol	66		32 - 130	%REC	1	7/18/2003 9:45:00 PM	MOLLY_030718A	DCE
Surr:2-Fluorobiphenyl	58		27 - 123	%REC	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc.
Lab Order: 0307090
Project: START RFP 3481
Client Sample ID: BBW-ML-01
Alt. Client ID:
Collection Date: 7/9/2003 1:45:00 PM
% Moist:
Lab ID: 0307090-05AMSD **Sample Type:** MSD **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	63		36 - 135	%REC	1			
Surr:Nitrobenzene-d5	76		25 - 122	%REC	1			
Surr:Phenol-d5	89		36 - 128	%REC	1			
Surr:Terphenyl-d14	158	*	51 - 116	%REC	1			

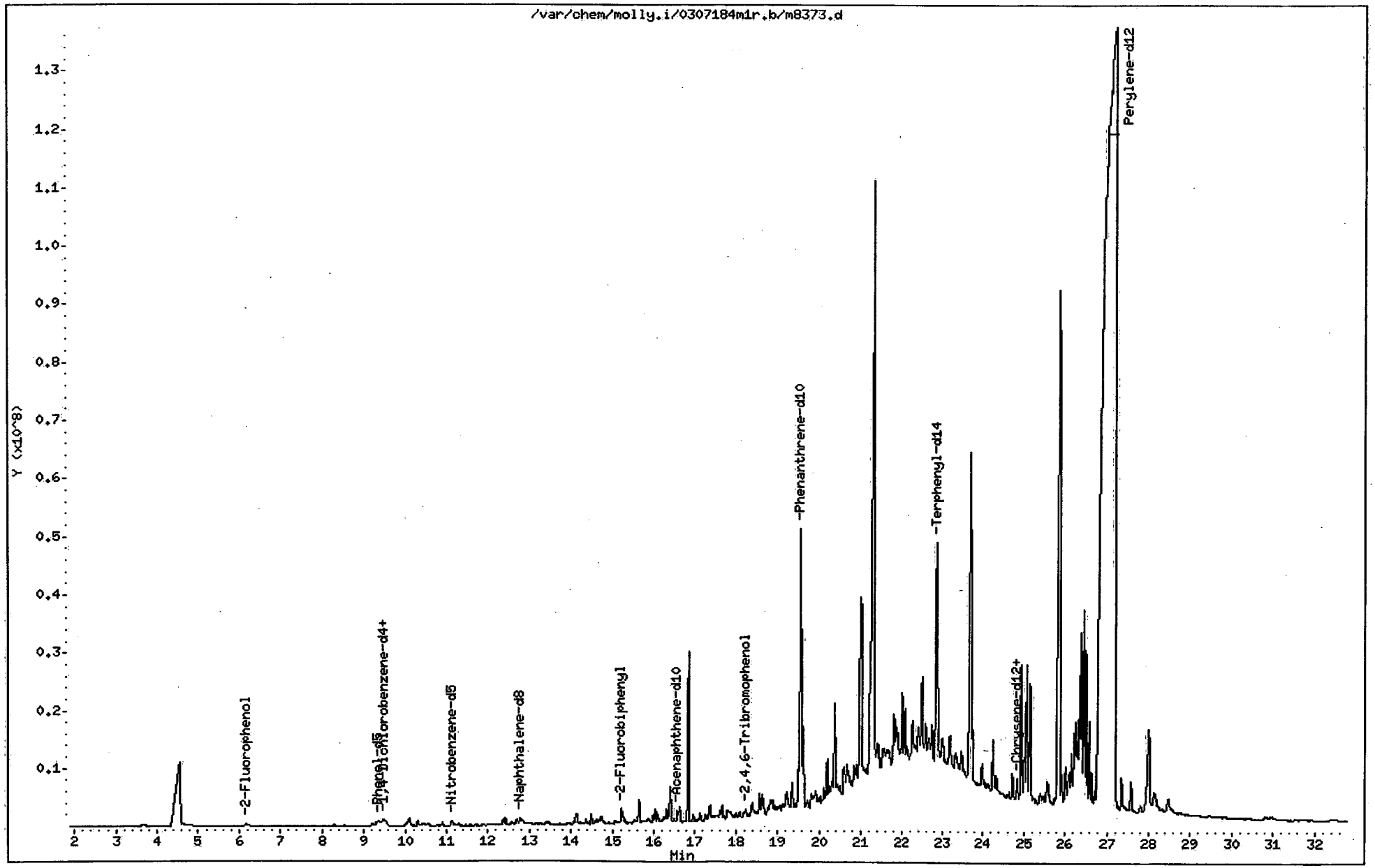
Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

991

Data File: /var/chem/molly.i/0307184m1r.b/m8373.d
Date : 18-JUL-2003 21:45
Client ID:
Sample Info: 0307090-05AMSD
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307184m1r.b/m8373.d
Lab Smp Id: 0307090-05AMSD
Inj Date : 18-JUL-2003 21:45
Operator : dce Inst ID: molly.i
Smp Info : 0307090-05AMSD
Misc Info : 0307184m1r;comx40;{},1_8270C_3550B_TCL_S,MSD
Comment :
Method : /var/chem/molly.i/0307184m1r.b/comx40.m
Meth Date : 19-Jul-2003 09:46 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	15.70000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	6.159	5.995	(0.649)	344003	75.2006	2390
4 Benzaldehyde	77	8.301	8.210	(0.875)	152713	35.1646	1120(MH) AE 7/21/03
$ 6 Phenol-d5	99	9.315	9.121	(0.981)	702378	106.728	3400
7 Phenol	94	9.471	9.162	(0.998)	1867482	251.658	8010(AM) AE 7/21/03
9 2-Chlorophenol	128	9.202	9.111	(0.969)	294093	57.4144	1830
* 11 1,4-Dichlorobenzene-d4	152	9.491	9.494	(1.000)	145252	40.0000	
12 1,4-Dichlorobenzene	146	9.533	9.545	(1.004)	279631	47.7659	1520
15 2-Methylphenol	108	10.858	10.736	(1.144)	52691	10.0922	321(a)
17 Acetophenone	105	10.785	10.767	(1.136)	104445	11.8744	378
18 4-Methylphenol	108	11.251	11.129	(1.185)	127083	22.3121	710

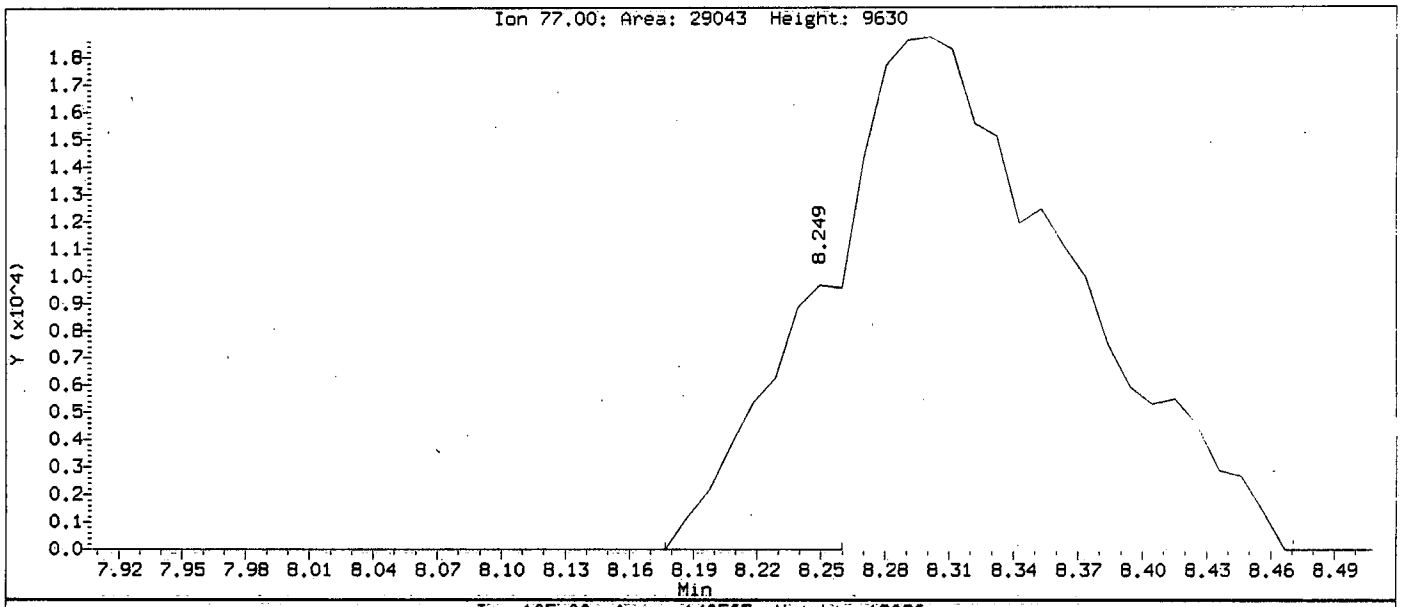
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
	19 N-Nitrosodi-n-propylamine	70	10.899	10.891	(1.148)	291335	54.8811	1750
$	21 Nitrobenzene-d5	82	11.137	11.129	(0.872)	613382	75.7510	2410
	25 2,4-Dimethylphenol	107	12.431	12.319	(0.973)	66223	8.88648	283(aH)
	27 Benzoic acid	122	12.855	12.723	(1.006)	135255	38.8935	1240(H)
	29 1,2,4-Trichlorobenzene	180	12.710	12.713	(0.995)	284560	48.9742	1560
*	30 Naphthalene-d8	136	12.772	12.775	(1.000)	595458	40.0000	
	31 Naphthalene	128	12.824	12.816	(1.004)	237593	13.7246	437
	34 Caprolactam	113	13.963	13.758	(1.093)	79936	40.9392	1300(H)
	35 4-chloro-3-methylphenol	107	14.491	14.389	(1.135)	541643	80.7861	2570(H)
	36 2-Methylnaphthalene	141	14.366	14.369	(1.125)	274542	26.7107	851
$	40 2-Fluorobiphenyl	172	15.225	15.228	(0.919)	1027218	57.6521	1840
	42 Biphenyl	154	15.401	15.393	(0.929)	75986	3.56611	114(a)
	44 Dimethyl phthalate	163	16.209	16.201	(0.978)	114501	5.34105	170(a)
*	47 Acenaphthene-d10	164	16.571	16.563	(1.000)	526154	40.0000	
	49 Acenaphthene	153	16.633	16.635	(1.004)	992008	58.7187	1870
	51 4-Nitrophenol	109	17.502	17.298	(1.056)	358780	88.3316	2810
	52 Dibenzofuran	168	16.975	16.966	(1.024)	409632	16.7968	535
	53 2,4-Dinitrotoluene	165	17.130	17.122	(1.034)	369245	54.9110	1750
	54 Diethyl phthalate	149	17.668	17.650	(1.066)	633080	27.5878	878
	55 Fluorene	166	17.668	17.670	(1.066)	240399	12.1551	387
	59 N-Nitrosodiphenylamine	169	17.999	17.981	(0.920)	358666	12.2452	390
$	60 2,4,6-Tribromophenol	330	18.248	18.219	(1.101)	191539	79.6133	2540
	64 Pentachlorophenol	266	19.438	19.368	(0.994)	106699	22.3355	711(a)
*	65 Phenanthrene-d10	188	19.562	19.544	(1.000)	1981239	40.0000	
	66 Phenanthrene	178	19.614	19.585	(1.003)	9236311	158.860	5060
	69 Di-n-butyl phthalate	149	21.001	20.951	(1.074)	28066894	375.593	12000(A)
	70 Fluoranthene	202	22.067	21.997	(1.128)	5754951	81.0496	2580
	72 Pyrene	202	22.502	22.431	(0.906)	9617763	178.471	5680(A)
$	73 Terphenyl-d14	244	22.884	22.835	(0.921)	5360788	158.090	5030(R)
	74 Butyl benzyl phthalate	149	23.982	23.942	(0.965)	636916	23.4918	748
*	77 Chrysene-d12	240	24.841	24.812	(1.000)	1954411	40.0000	
	78 Chrysene	228	24.872	24.853	(1.001)	144846	2.64195	84.1(a)
	79 Bis(2-ethylhexyl)phthalate	149	25.068	25.040	(1.009)	3381523	82.7620	2640
	80 Di-n-octyl phthalate	149	26.000	25.940	(1.047)	2047496	28.8912	920
*	84 Perylene-d12	264	27.004	26.944	(1.000)	749981	40.0000	(Q)

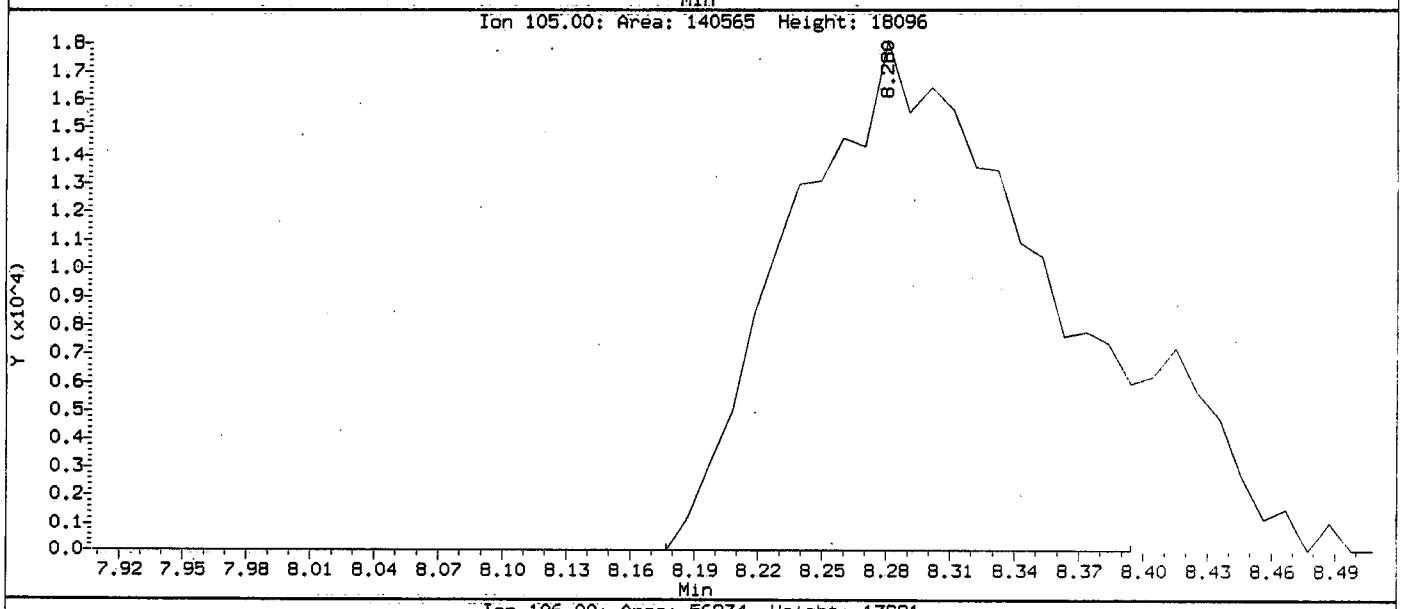
QC Flag Legend

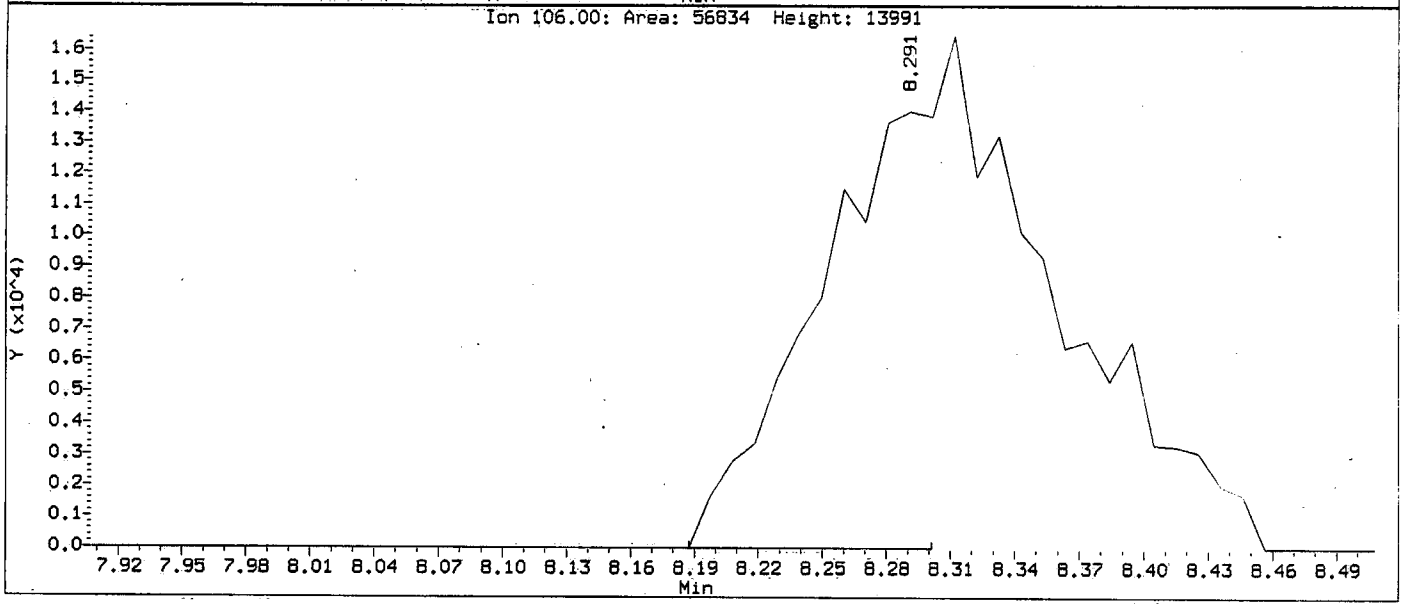
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/molly.i/0307184m1r.b/m8373.d
Injection Date: 18-JUL-2003 21:45
Instrument: molly.i
Client Sample ID:

Compound: Benzaldehyde
CAS Number: 100-52-7



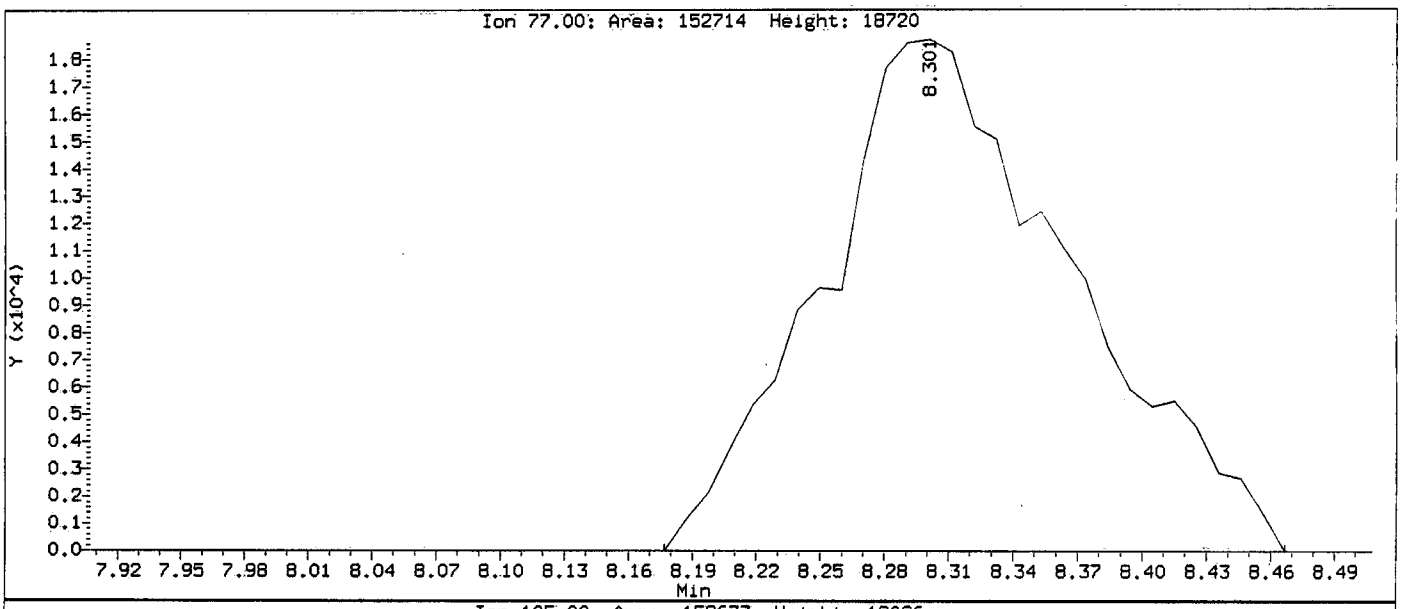


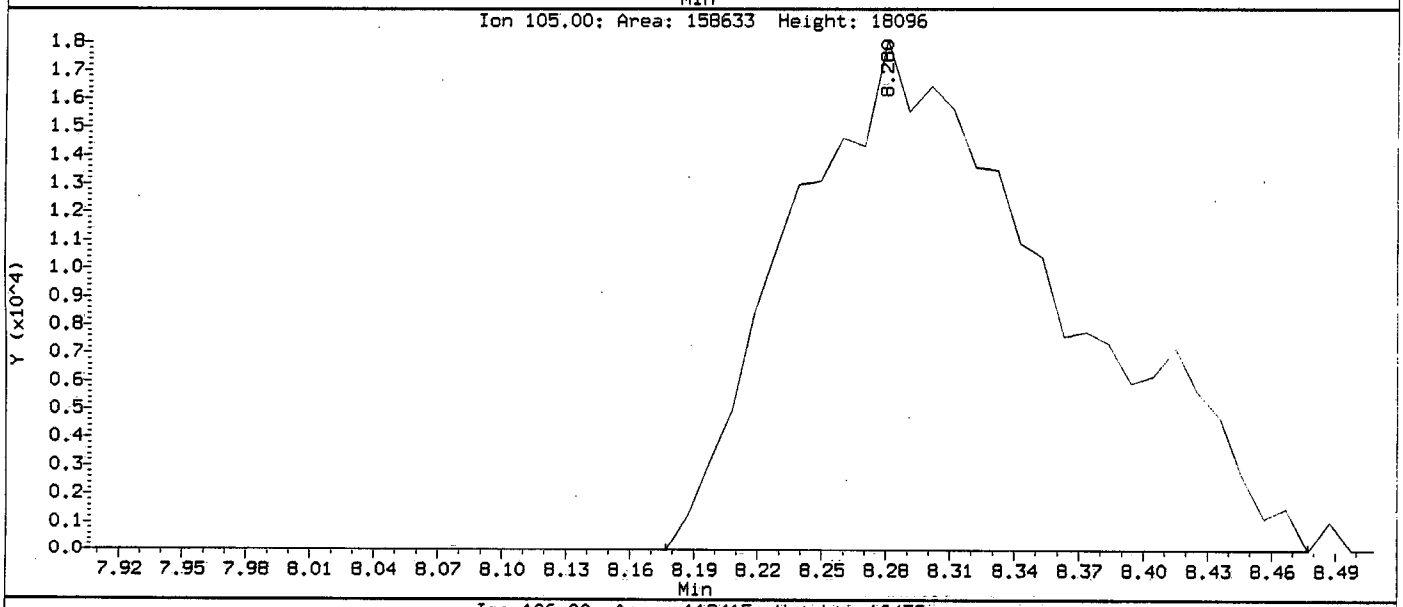


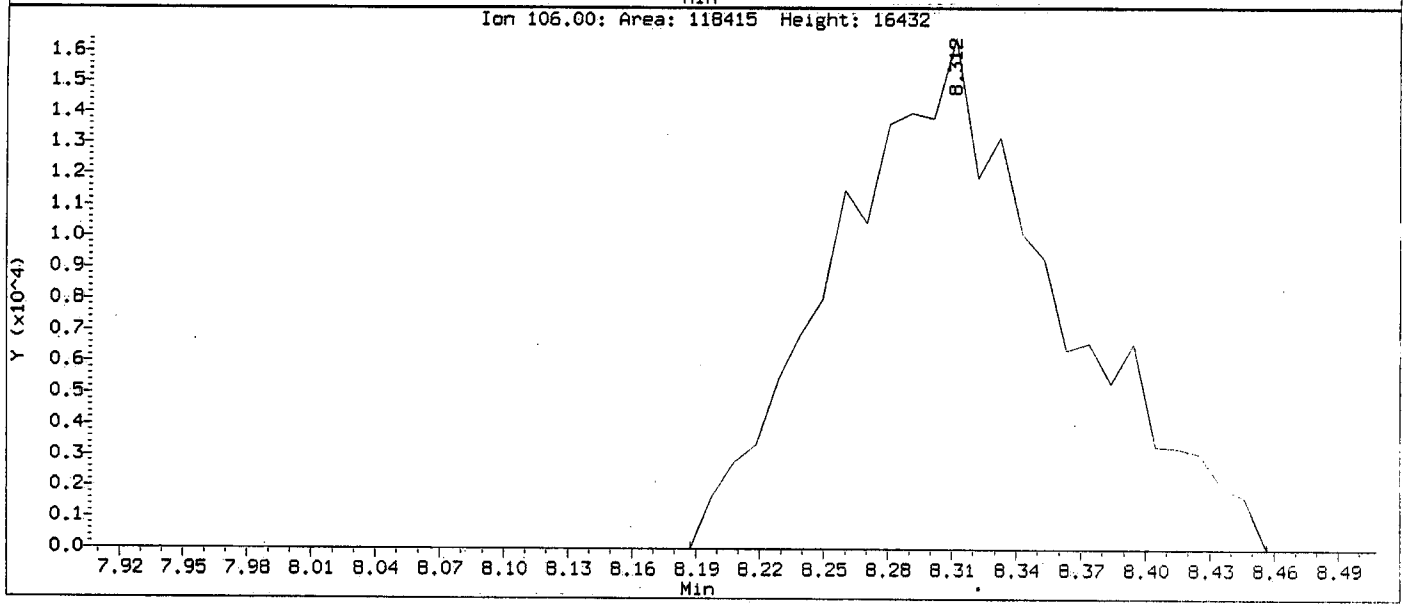
Data File: /var/chem/molly.i/0307184m1r.b/m8373.d
Injection Date: 18-JUL-2003 21:45
Instrument: molly.i
Client Sample ID:

Compound: Benzaldehyde
CAS Number: 100-52-7

Bill G 7/21/03
integrate entire area
Kathy Kuhnt 7/21/03

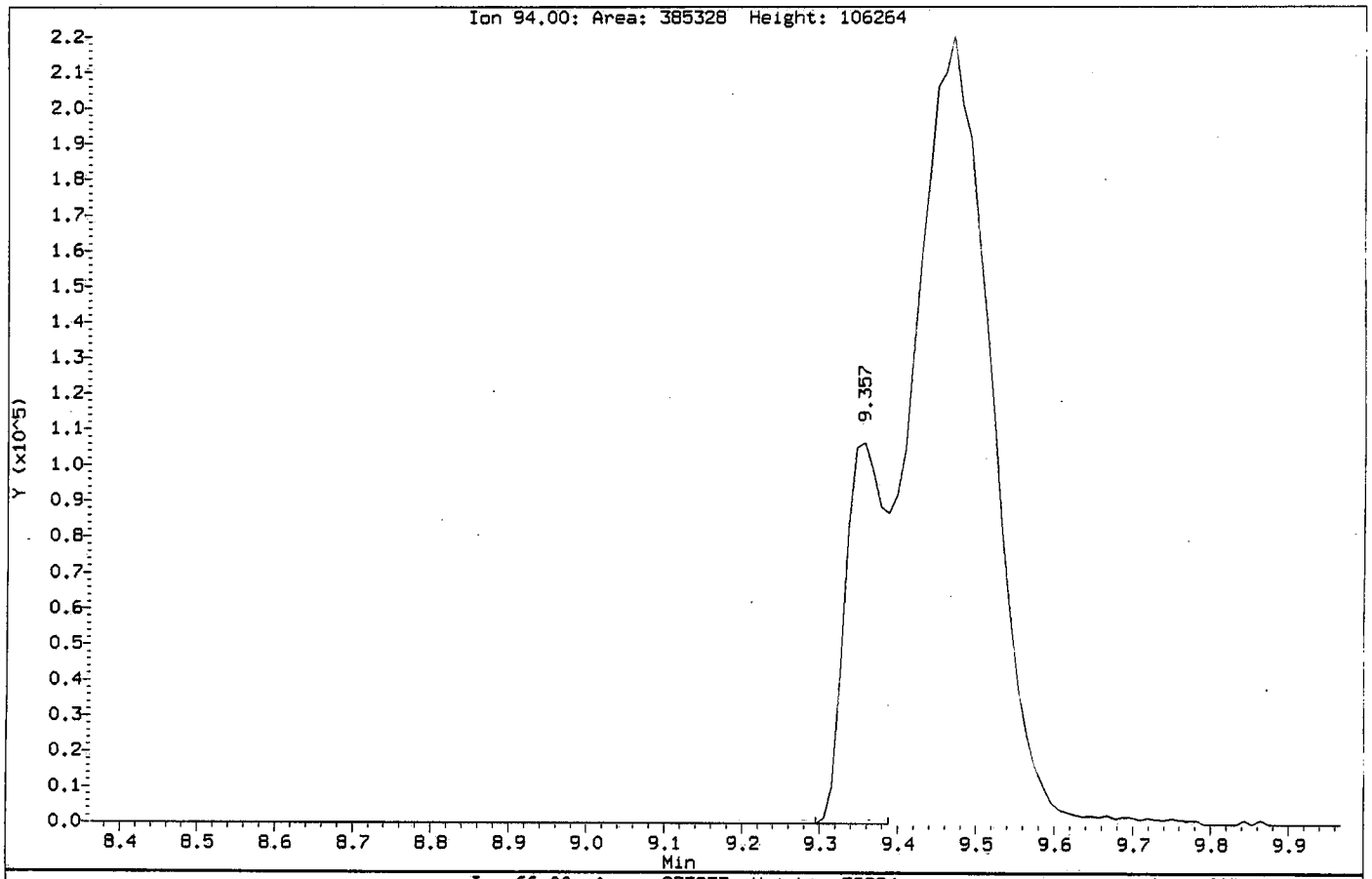


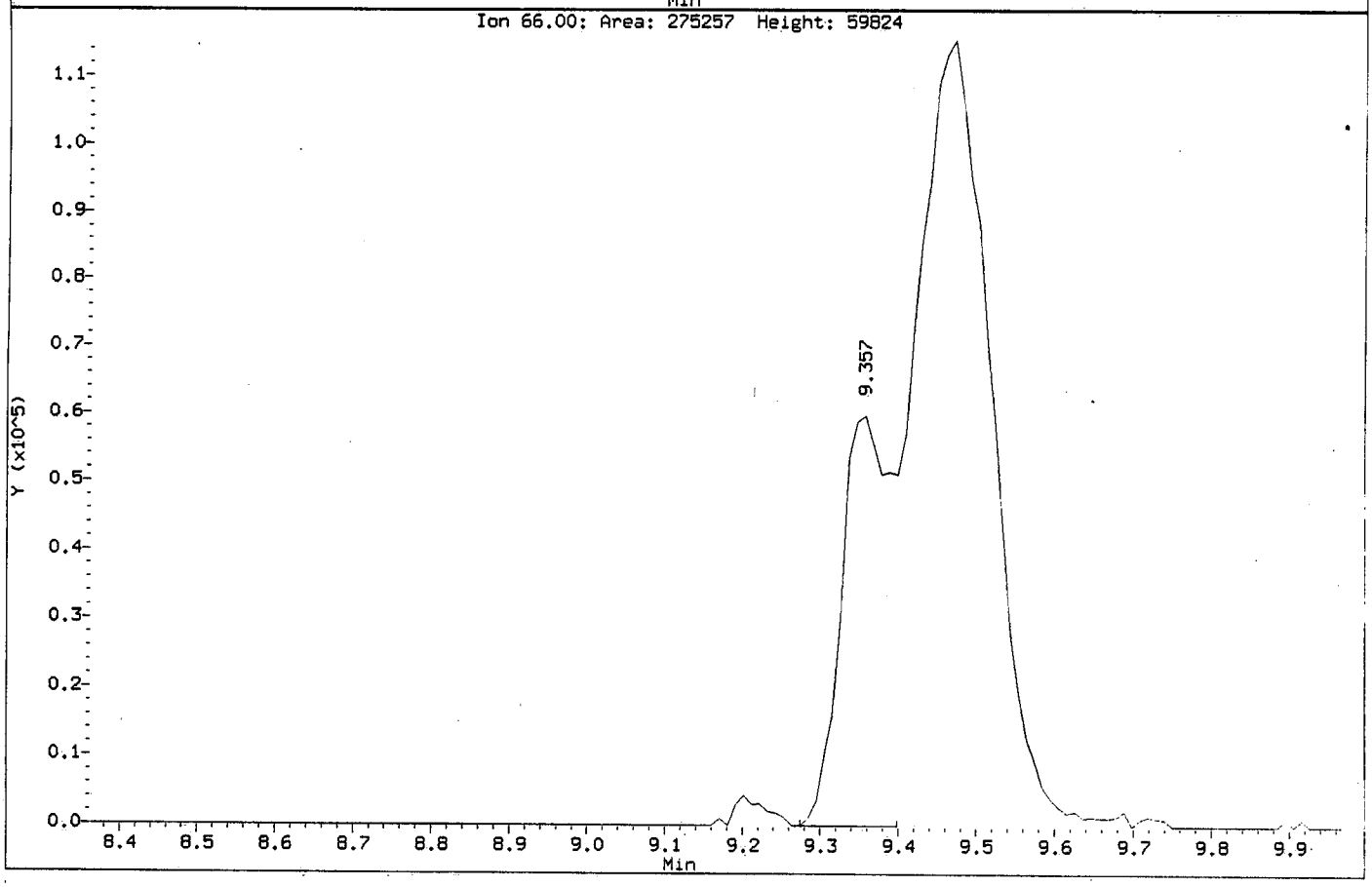




Data File: /var/chem/molly.i/0307184m1r.b/m8373.d
Injection Date: 18-JUL-2003 21:45
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2

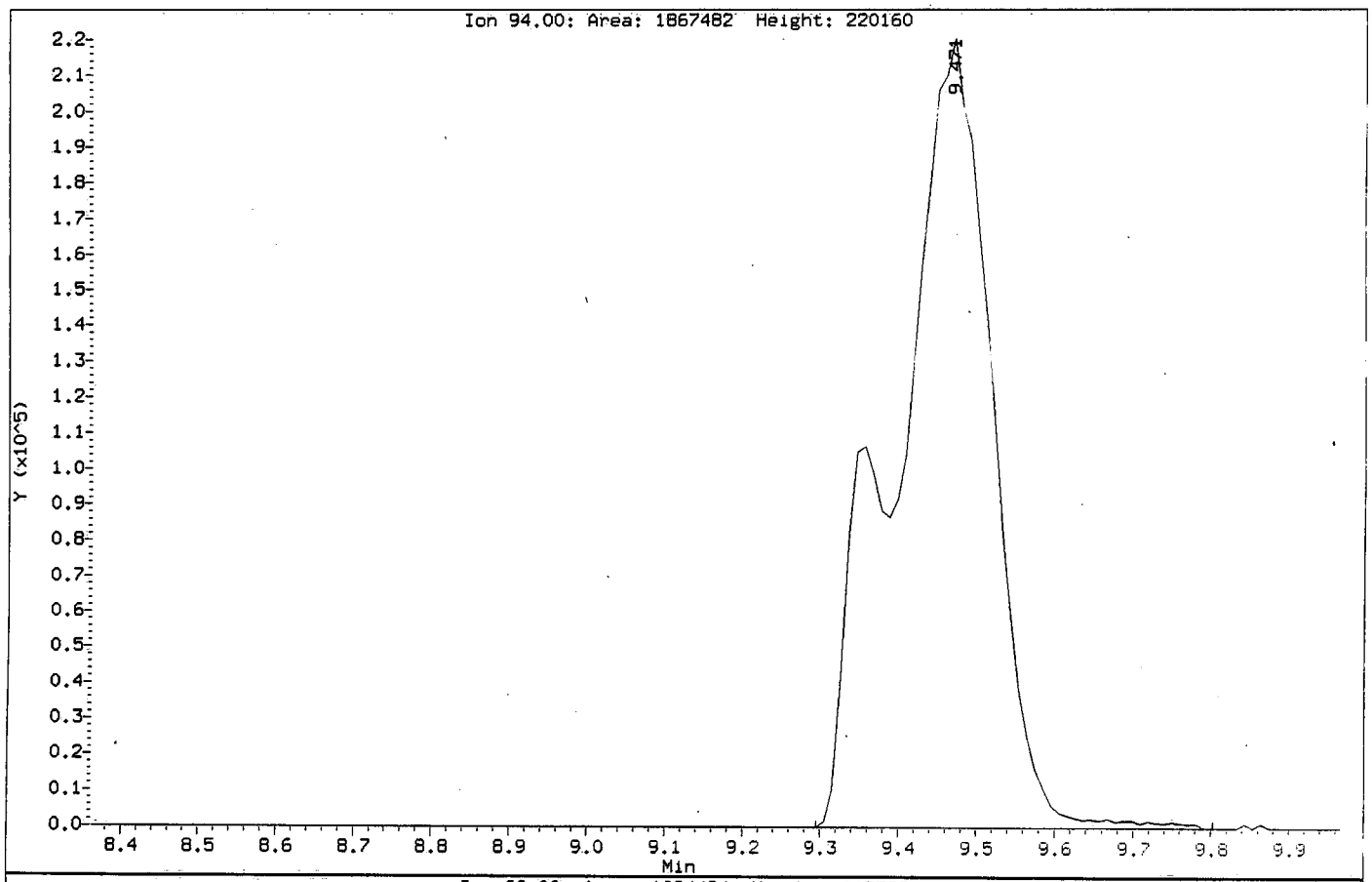


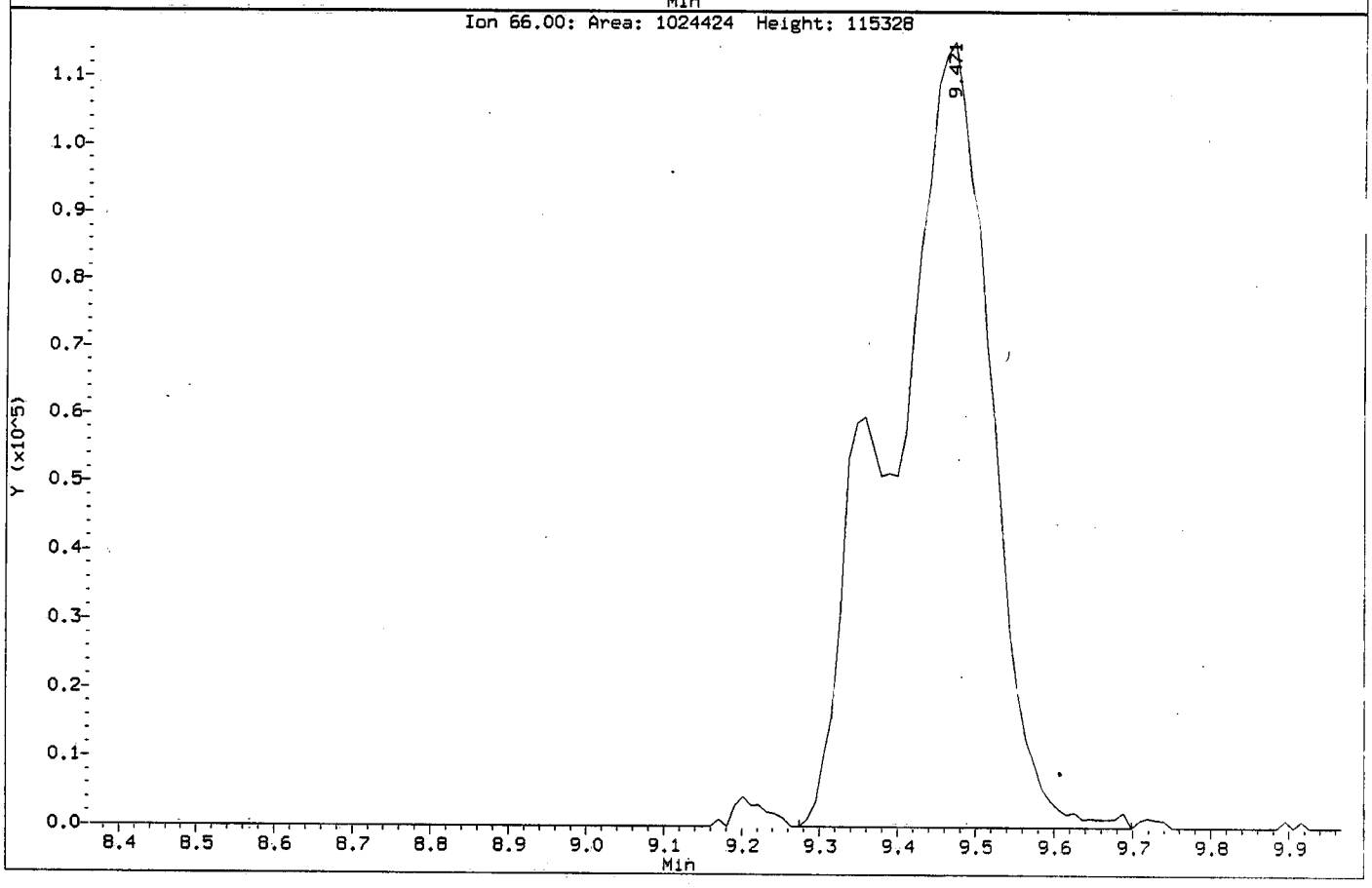


Rel C 7/21/03
integrate entire area
Kathy Kubut 7/21/03

Data File: /var/chem/molly.i/0307184m1r.b/m8373.d
Injection Date: 18-JUL-2003 21:45
Instrument: molly.i
Client Sample ID:

Compound: Phenol
CAS Number: 108-95-2





Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: LCS-200302842 **Sample Type:** LCS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1´-Biphenyl	ND		320.0	µg/Kg	1	7/17/2003 1:24:00 PM	MOLLY_030717A	DCE
1,2,4-Trichlorobenzene	947.5		320.0	µg/Kg	1			
1,2-Dichlorobenzene	ND		320.0	µg/Kg	1			
1,3-Dichlorobenzene	ND		320.0	µg/Kg	1			
1,4-Dichlorobenzene	962.5		320.0	µg/Kg	1			
2,2´-Oxybis(1-chloropropane)	ND		320.0	µg/Kg	1			
2,4,5-Trichlorophenol	ND		805.0	µg/Kg	1			
2,4,6-Trichlorophenol	ND		320.0	µg/Kg	1			
2,4-Dichlorophenol	ND		320.0	µg/Kg	1			
2,4-Dimethylphenol	ND		320.0	µg/Kg	1			
2,4-Dinitrophenol	ND		320.0	µg/Kg	1			
2,4-Dinitrotoluene	1091		320.0	µg/Kg	1			
2,6-Dinitrotoluene	ND		320.0	µg/Kg	1			
2-Chloronaphthalene	ND		320.0	µg/Kg	1			
2-Chlorophenol	1035		320.0	µg/Kg	1			
2-Methylnaphthalene	ND		320.0	µg/Kg	1			
2-Methylphenol	ND		320.0	µg/Kg	1			
2-Nitroaniline	ND		805.0	µg/Kg	1			
2-Nitrophenol	ND		320.0	µg/Kg	1			
3,3´-Dichlorobenzidine	ND		805.0	µg/Kg	1			
3-Nitroaniline	ND		805.0	µg/Kg	1			
4,6-Dinitro-2-methylphenol	ND		805.0	µg/Kg	1			
4-Bromophenyl phenyl ether	ND		320.0	µg/Kg	1			
4-Chloro-3-methylphenol	1074		320.0	µg/Kg	1			
4-Chloroaniline	ND		320.0	µg/Kg	1			
4-Chlorophenyl phenyl ether	ND		320.0	µg/Kg	1			
4-Methylphenol	ND		320.0	µg/Kg	1			
4-Nitroaniline	ND		805.0	µg/Kg	1			
4-Nitrophenol	1179		805.0	µg/Kg	1			
Acenaphthene	1026		320.0	µg/Kg	1			
Acenaphthylene	ND		320.0	µg/Kg	1			
Acetophenone	ND		320.0	µg/Kg	1			
Anthracene	ND		320.0	µg/Kg	1			
Atrazine	ND		320.0	µg/Kg	1			
Benz(a)anthracene	ND		320.0	µg/Kg	1			
Benzaldehyde	ND		291.0	µg/Kg	1			
Benzo(a)pyrene	ND		320.0	µg/Kg	1			

Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: LCS-200302842 **Sample Type:** LCS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Benzo(b)fluoranthene	ND		320.0	µg/Kg	1			
Benzo(g,h,i)perylene	ND		320.0	µg/Kg	1			
Benzo(k)fluoranthene	ND		320.0	µg/Kg	1			
Benzoic acid	ND		805.0	µg/Kg	1			
Benzyl alcohol	ND		320.0	µg/Kg	1			
Bis(2-chloroethoxy)methane	ND		320.0	µg/Kg	1			
Bis(2-chloroethyl)ether	ND		320.0	µg/Kg	1			
Bis(2-ethylhexyl)phthalate	ND		320.0	µg/Kg	1			
Butyl benzyl phthalate	ND		320.0	µg/Kg	1			
Caprolactam	ND		320.0	µg/Kg	1			
Carbazole	ND		320.0	µg/Kg	1			
Chrysene	ND		320.0	µg/Kg	1			
Di-n-butyl phthalate	ND		320.0	µg/Kg	1			
Di-n-octyl phthalate	ND		320.0	µg/Kg	1			
Dibenz(a,h)anthracene	ND		320.0	µg/Kg	1			
Dibenzofuran	ND		320.0	µg/Kg	1			
Diethyl phthalate	ND		320.0	µg/Kg	1			
Dimethyl phthalate	ND		320.0	µg/Kg	1			
Fluoranthene	ND		320.0	µg/Kg	1			
Fluorene	ND		320.0	µg/Kg	1			
Hexachlorobenzene	ND		320.0	µg/Kg	1			
Hexachlorobutadiene	ND		320.0	µg/Kg	1			
Hexachlorocyclopentadiene	ND		805.0	µg/Kg	1			
Hexachloroethane	ND		320.0	µg/Kg	1			
Indeno(1,2,3-cd)pyrene	ND		320.0	µg/Kg	1			
Isophorone	ND		320.0	µg/Kg	1			
N-Nitrosodi-n-propylamine	878.6		320.0	µg/Kg	1			
N-Nitrosodimethylamine	ND		320.0	µg/Kg	1			
N-Nitrosodiphenylamine	ND		320.0	µg/Kg	1			
Naphthalene	ND		320.0	µg/Kg	1			
Nitrobenzene	ND		320.0	µg/Kg	1			
Pentachlorophenol	1473		805.0	µg/Kg	1			
Phenanthrene	ND		320.0	µg/Kg	1			
Phenol	1064		320.0	µg/Kg	1			
Pyrene	1160		320.0	µg/Kg	1			
Surr:2,4,6-Tribromophenol	95		32 - 130	%REC	1	7/17/2003 1:24:00 PM	MOLLY_030717A	DCE
Surr:2-Fluorobiphenyl	83		27 - 123	%REC	1			

Definitions:

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DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

Ecology and Environment, Inc.

Laboratory Results

Analytical Services Center
4493 Walden Avenue
Lancaster, New York 14086

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: Weston Solutions, Inc. **Client Sample ID:**
Lab Order: 0307090 **Alt. Client ID:**
Project: START RFP 3481 **Collection Date:** **% Moist:**
Lab ID: LCS-200302842 **Sample Type:** LCS **Matrix:** Soil/Solid **Test Code:** 1_8270C_3550B_TCL_S

SEMIVOLATILE ORGANICS BY METHOD 8270C **Method:** SW8270C **Prep Method:** SW3550B

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Surr:2-Fluorophenol	79		36 - 135	%REC	1			
Surr:Nitrobenzene-d5	89		25 - 122	%REC	1			
Surr:Phenol-d5	97		36 - 128	%REC	1			
Surr:Terphenyl-d14	124	*	51 - 116	%REC	1			

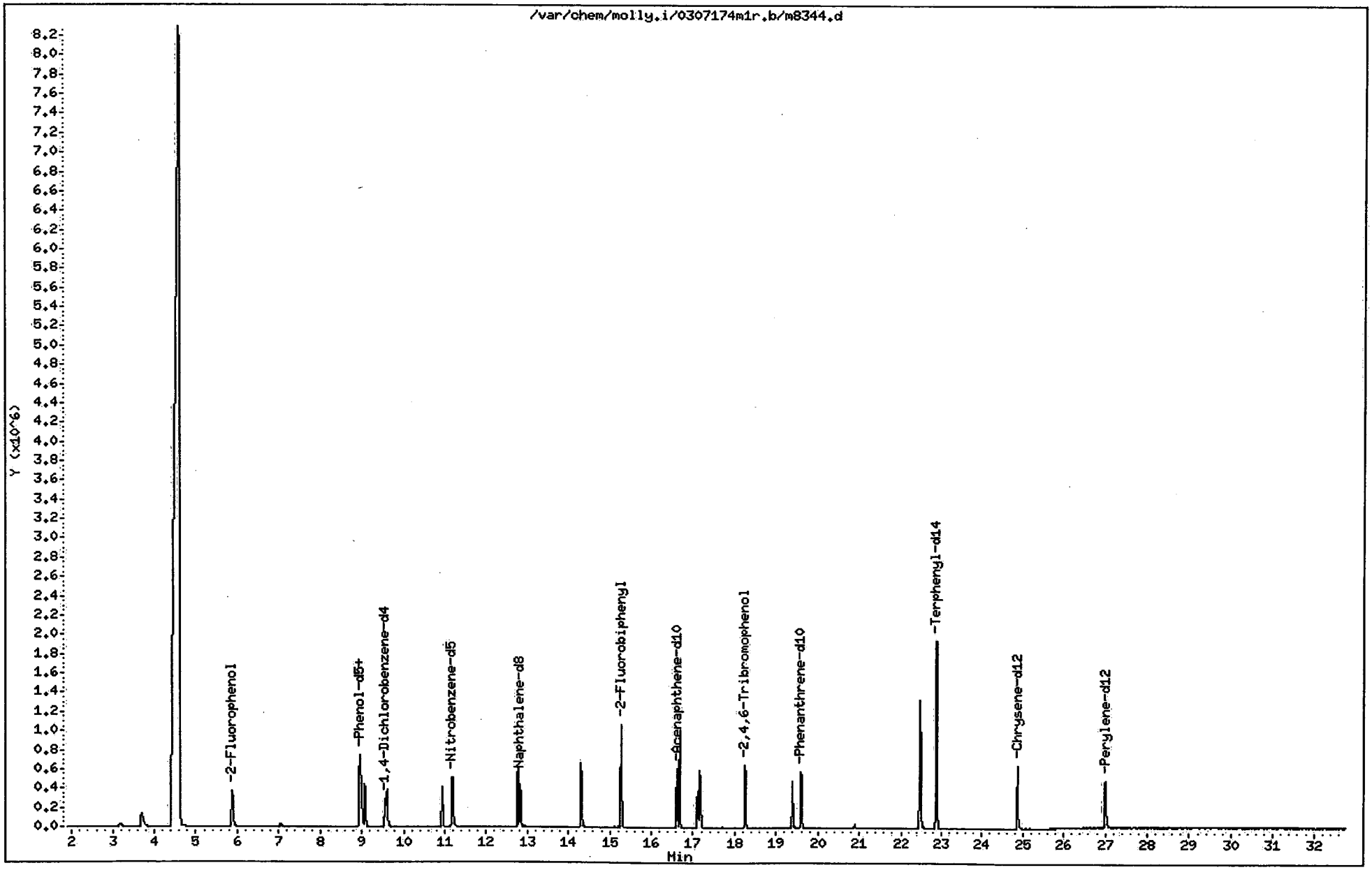
Definitions:

* - Recovery outside QC limits
DF - Dilution Factor
H - Value Exceeds Maximum Contaminant Level
M - Matrix Spike Recovery outside limits
ND - Not Detected at the Reporting Limit
B - Analyte found in Method blank
DNI - Did not Ignite
J - Estimated value, value may not be accurate
N - Single Column Analysis
P - Post Spike Recovery outside limits
D - Diluted due to maxtrix or extended target compounds
E - Result exceeds Highest Calibration Standard
Limit - Reporting Limit
NC - Not Calculated for values < RL
R - RPD outside recovery limits

1001

Data File: /var/chem/molly.i/0307174m1r.b/m8344.d
Date : 17-JUL-2003 13:24
Client ID:
Sample Info: LCS-200302842
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: molly.i
Operator: dce
Column diameter: 0.25



Ecology & Environment, Inc.

Data file : /var/chem/molly.i/0307174m1r.b/m8344.d
Lab Smp Id: LCS-200302842
Inj Date : 17-JUL-2003 13:24
Operator : dce Inst ID: molly.i
Smp Info : LCS-200302842
Misc Info : 0307174m1r;comx40;,1_8270C_3550B_TCL_S,LCS
Comment :
Method : /var/chem/molly.i/0307174m1r.b/comx40.m
Meth Date : 18-Jul-2003 09:03 dennis Quant Type: ISTD
Cal Date : 30-JUN-2003 11:56 Cal File: m8116.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsrv2

Concentration Formula:
Amt * DF * Uf * GPC * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
GPC	1.00000	GPC correction factor
Vt	1000.00000	Volume of final extract (uL)
Vi	2.00000	Volume injected (uL)
Ws	30.92000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.878	5.879	(0.615)	276188	95.0987	1540
$ 6 Phenol-d5	99	8.952	8.964	(0.936)	484932	116.064	1880
7 Phenol	94	8.983	8.995	(0.939)	310108	65.8230	1060
9 2-Chlorophenol	128	9.076	9.077	(0.949)	208112	63.9948	1030
* 11 1,4-Dichlorobenzene-d4	152	9.562	9.564	(1.000)	92217	40.0000	
12 1,4-Dichlorobenzene	146	9.604	9.616	(1.004)	221224	59.5219	962
19 N-Nitrosodi-n-propylamine	70	10.939	10.951	(1.144)	183115	54.3331	879
$ 21 Nitrobenzene-d5	82	11.187	11.189	(0.872)	410449	88.7947	1440
29 1,2,4-Trichlorobenzene	180	12.761	12.762	(0.995)	194341	58.5906	947
* 30 Naphthalene-d8	136	12.823	12.824	(1.000)	339923	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
35 4-chloro-3-methylphenol	107	14.303	14.315	(1.115)	254290	66.4391	1070
$ 40 2-Fluorobiphenyl	172	15.276	15.277	(0.920)	572062	83.1286	1340
* 47 Acenaphthene-d10	164	16.611	16.623	(1.000)	203216	40.0000	
49 Acenaphthene	153	16.673	16.685	(1.004)	413799	63.4171	1020
51 4-Nitrophenol	109	17.108	17.119	(1.030)	114388	72.9160	1180
53 2,4-Dinitrotoluene	165	17.170	17.171	(1.034)	175199	67.4577	1090
$ 60 2,4,6-Tribromophenol	330	18.257	18.258	(1.099)	106086	114.167	1850
64 Pentachlorophenol	266	19.385	19.396	(0.989)	91121	91.0707	1470
* 65 Phenanthrene-d10	188	19.592	19.593	(1.000)	414965	40.0000	
72 Pyrene	202	22.490	22.491	(0.904)	1063265	71.7399	1160
$ 73 Terphenyl-d14	244	22.893	22.895	(0.920)	1153614	123.698	2000(R)
* 77 Chrysene-d12	240	24.870	24.861	(1.000)	537514	40.0000	
* 84 Perylene-d12	264	27.002	27.004	(1.000)	341011	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Ecology and Environment, Inc. SOIL EXTRACTION LOGBOOK FORM

Batch No.: 200302842

TestCode: 1P_3550B_8270C

Log Book#: 1725

Extracted By: Beth Kruszka Signature: B. Kruszka

Extraction Date 7/14/2003 9:36:20 AM Prep End Date: 11:48 pm 7/14/03

Florisil Cart. Lot #: NA Copper Lot #: NA GPC / Cal ID# ☐ NA

Balance Calibration ID: 1722-17

Materials Used:			Book-Page	Expiration Dat
1.0	mL	BNA Surrogate	1653-4-5	8-2-03
	mL	____Surrogate		
	mL	____Surrogate		
1.0	mL	BNA Spike	1653-3-13	7-26-03
	mL	____Spike		
	mL	____Spike		
	mL	____Spike		

Solvent Traceability	Lot No.:
Methylene Chloride	Y18E53
Acetone	Y10E46
Hexane	NA
Acetonitrile	NA
Pentane	NA
Sodium Sulfate	V47616

Sample ID	Cont#	Sample Wt. (g)	Final Vol. (mL)	Concentrated By/Date	Comments:	IntCOC
0307090-05A	01	15.65	1.0	BMK 7/16/03		☐
0307090-05AMS	04	15.64	1.0			☐
0307090-05AMSD	04	15.70	1.0			☐
0307090-06A		15.98	1.0			☐
LCS-200302842		30.92	1.0			☐
MB-200302842		30.08	1.0			☐

last entry

BMK 7/16/03

The following clean-up proceedures have been performed on this batch of samples: Circle All that apply

NONE FLORISIL COPPER GPC OTHER_____

I have witnessed the addition of surrogate and spiking solutions. The correct type and amount has been added as indicated in the SOP.

(Signed) Sylvia Gayer 1004

Generated: Monday, July 14, 2003 7:08 PM Batch# 200302842

GC SEMIVOLATILES

Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

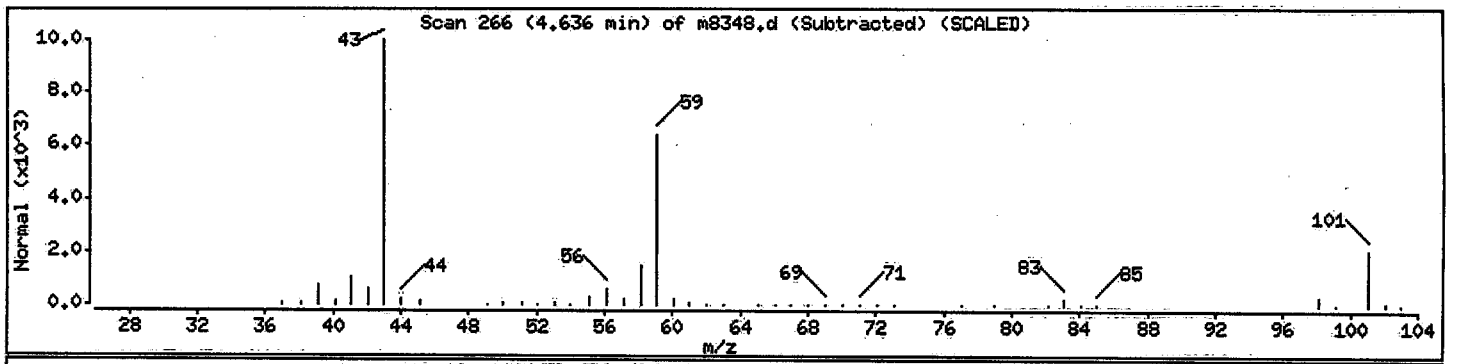
Volume Injected (uL): 2.0

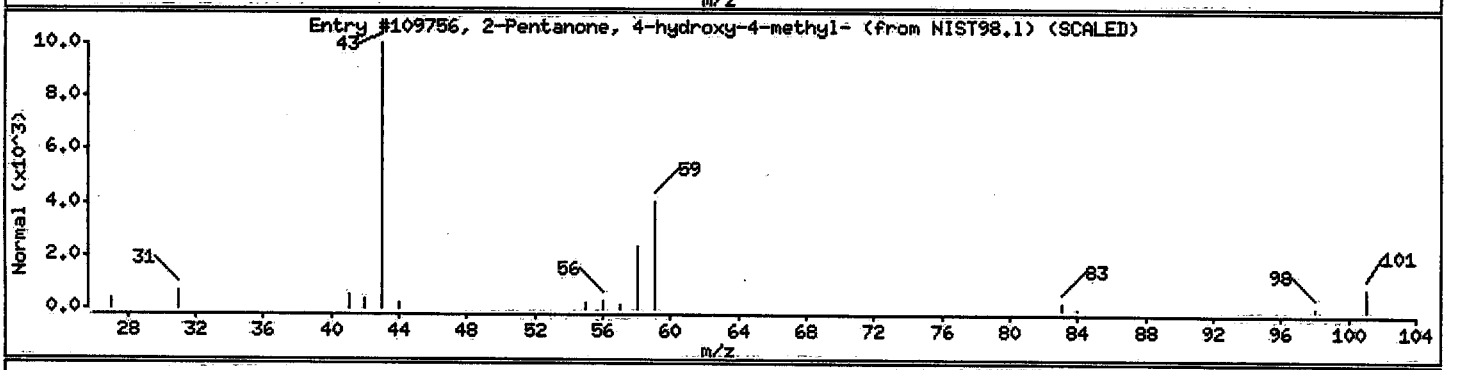
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.1	109756	56	C6H12O2	116





Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

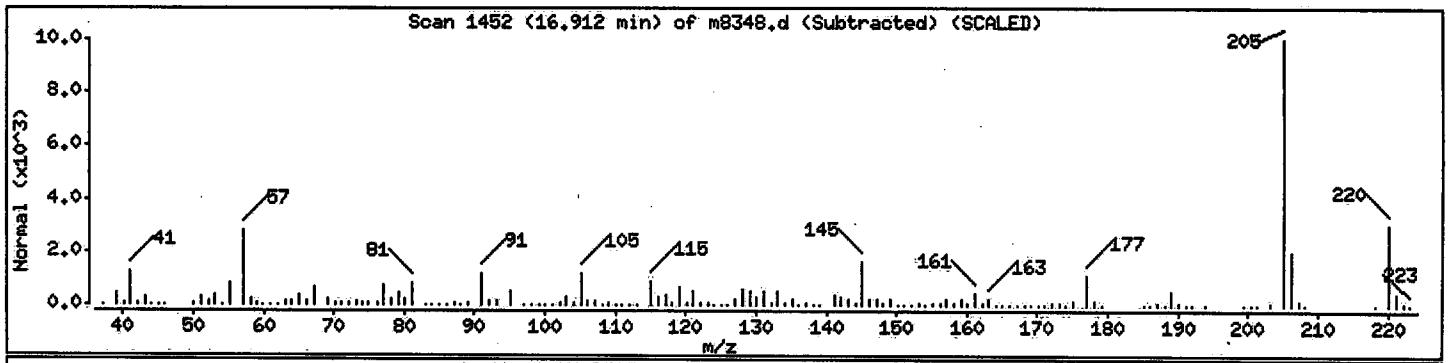
Volume Injected (uL): 2.0

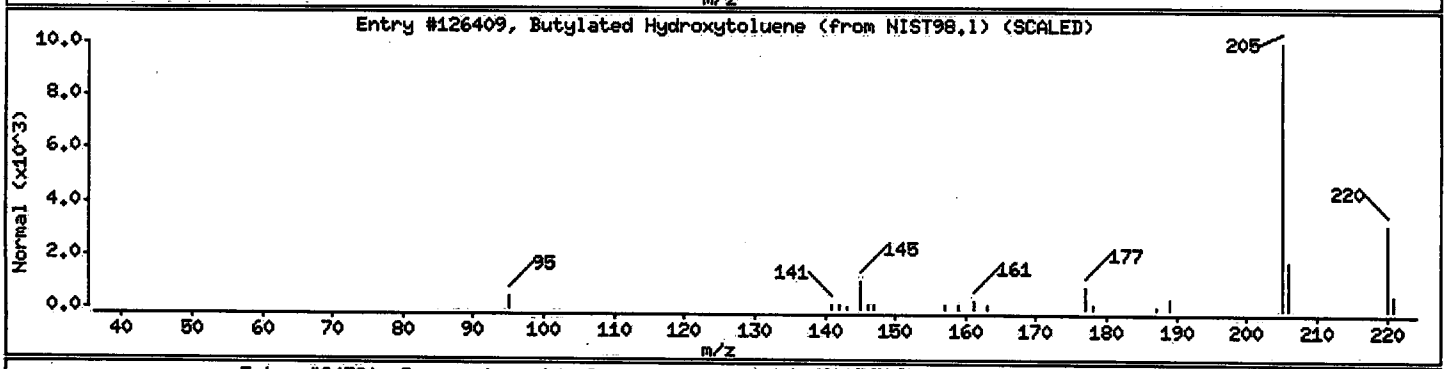
Operator: dce

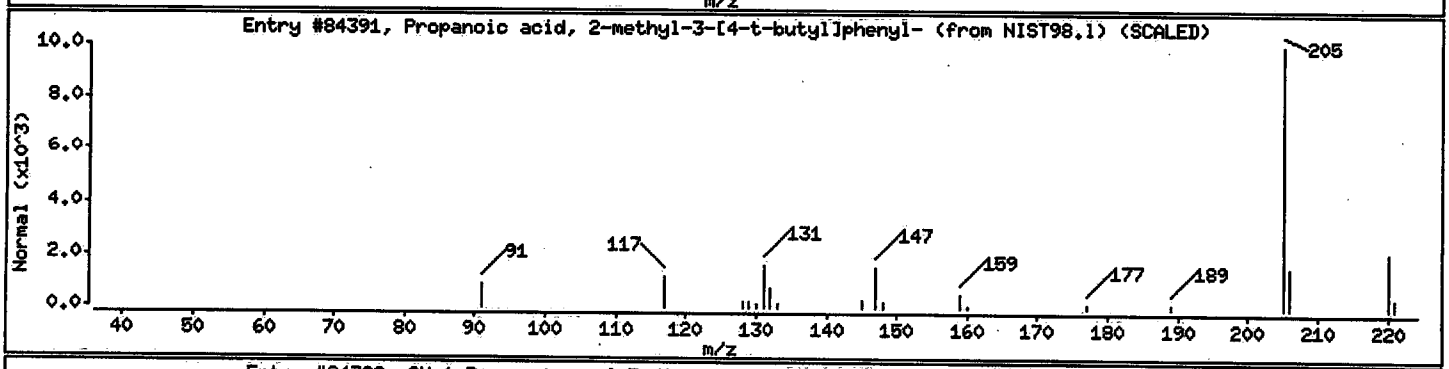
Column phase: ZB-5

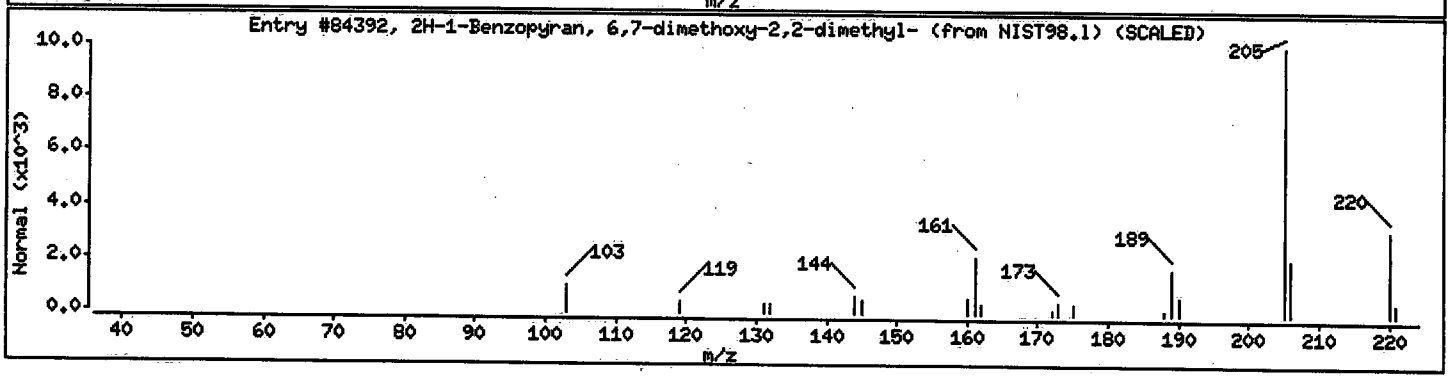
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butylated Hydroxytoluene	128-37-0	NIST98.1	126409	97	C15H24O	220
Propanoic acid, 2-methyl-3-[4-t-butyl]ph	1000131-87-0	NIST98.1	84391	64	C14H20O2	220
2H-1-Benzopyran, 6,7-dimethoxy-2,2-dimet	644-06-4	NIST98.1	84392	59	C13H16O3	220









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

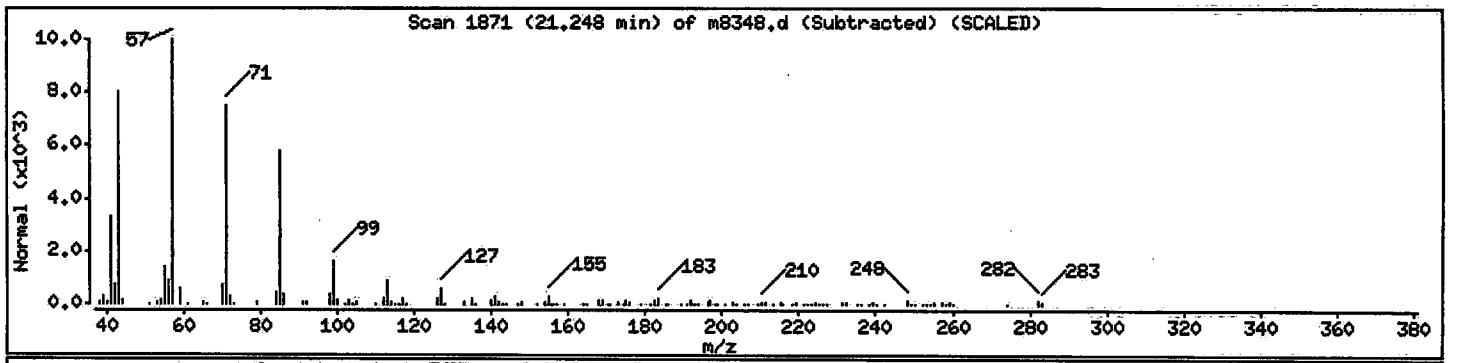
Volume Injected (uL): 2.0

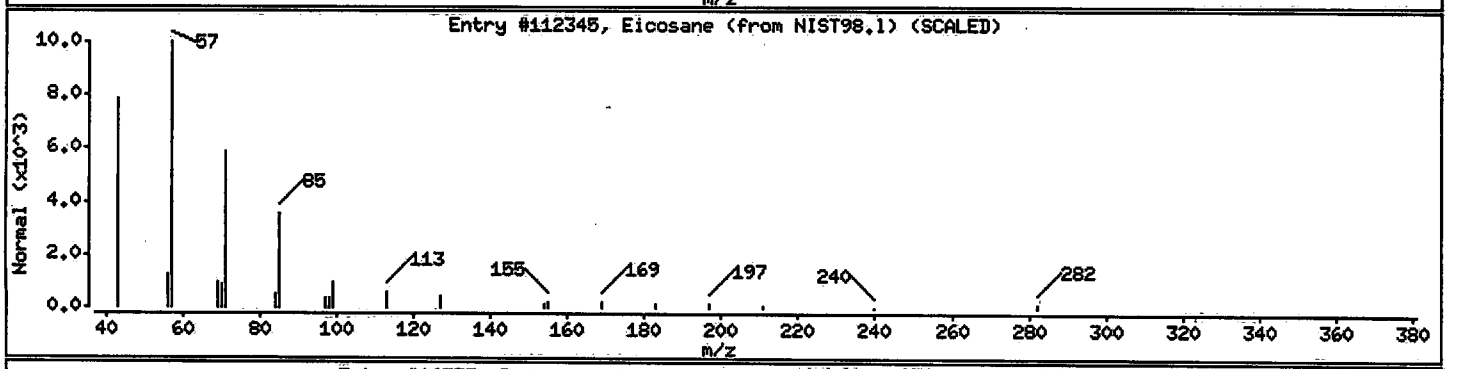
Operator: dce

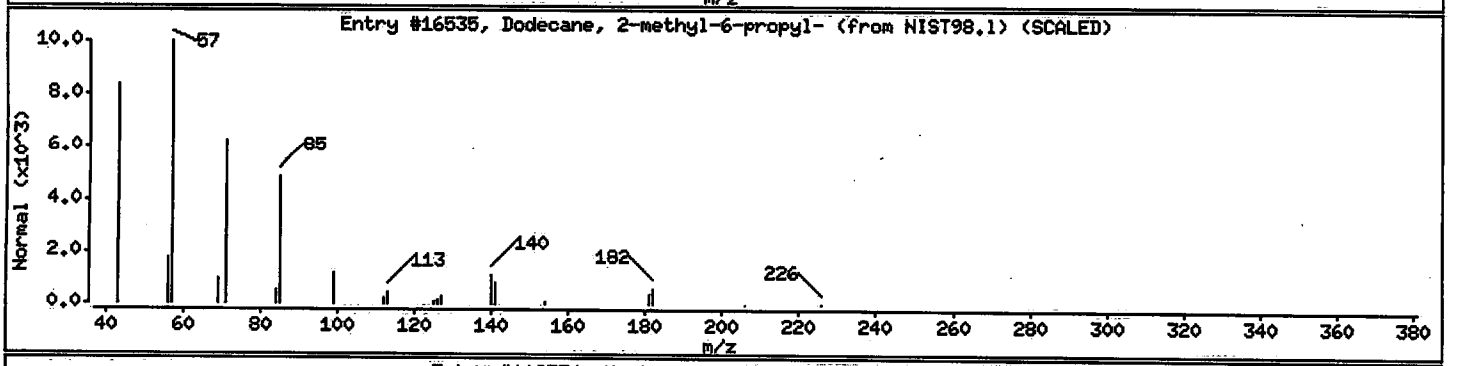
Column phase: ZB-5

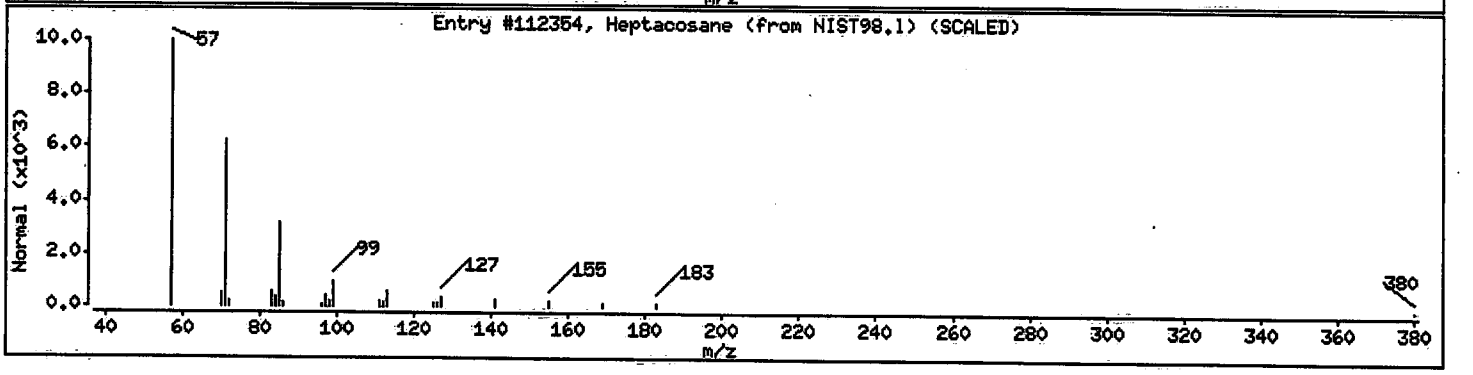
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	NIST98.1	112345	90	C20H42	282
Dodecane, 2-methyl-6-propyl-	55045-08-4	NIST98.1	16535	86	C16H34	226
Heptacosane	593-49-7	NIST98.1	112354	72	C27H56	380









Data File: /var/chem/molly.i/0307174m1r.b/m8348.d

Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

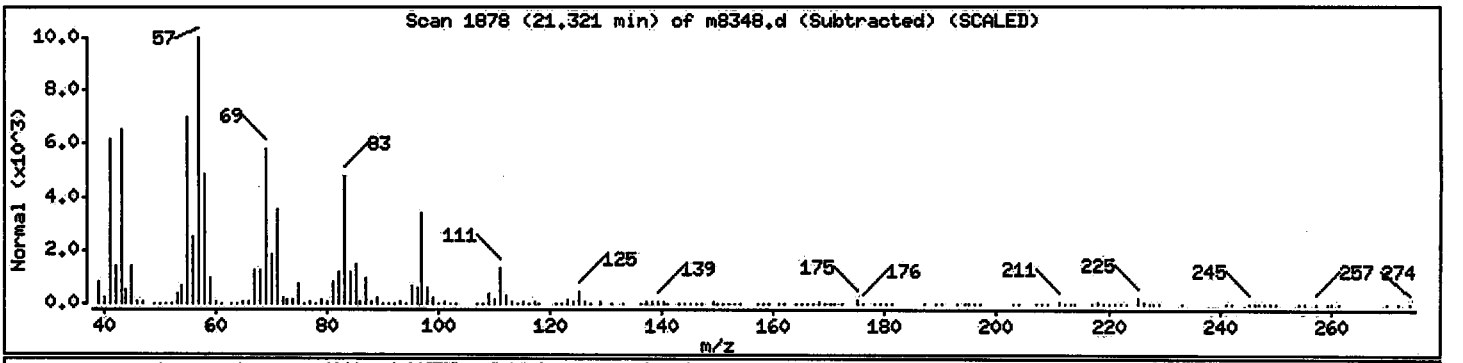
Volume Injected (uL): 2.0

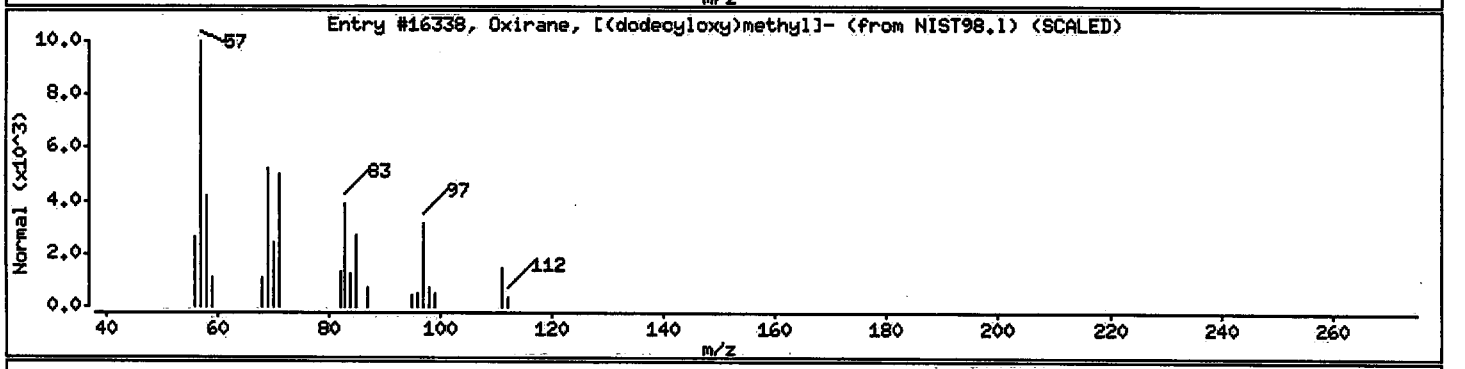
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, [(dodecyloxy)methyl]-	2461-18-9	NIST98.1	16338	52	C15H3002	242





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Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

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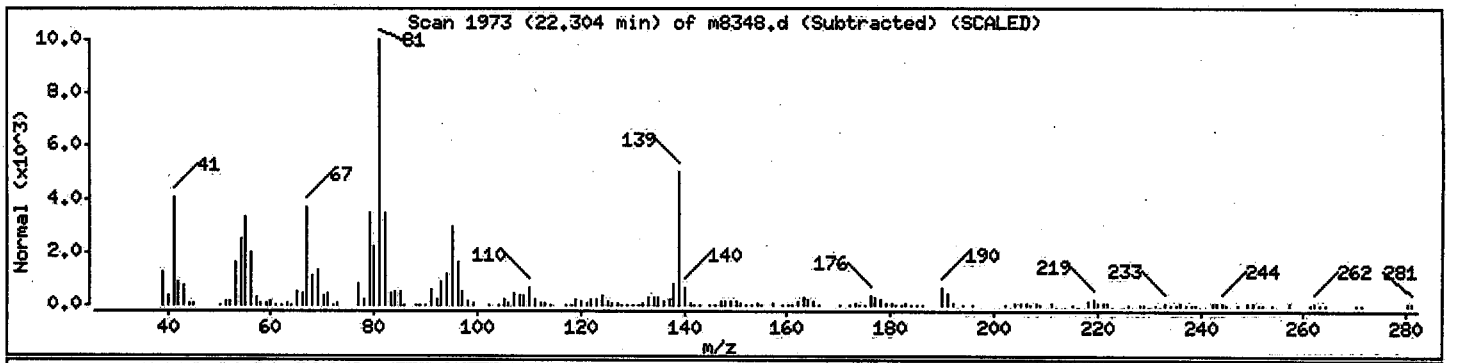
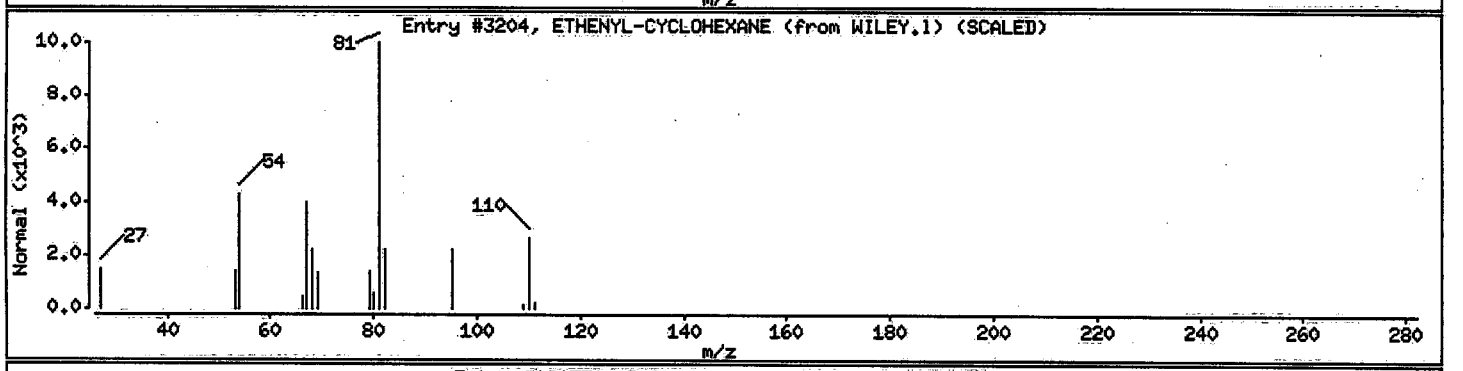
Operator: dce

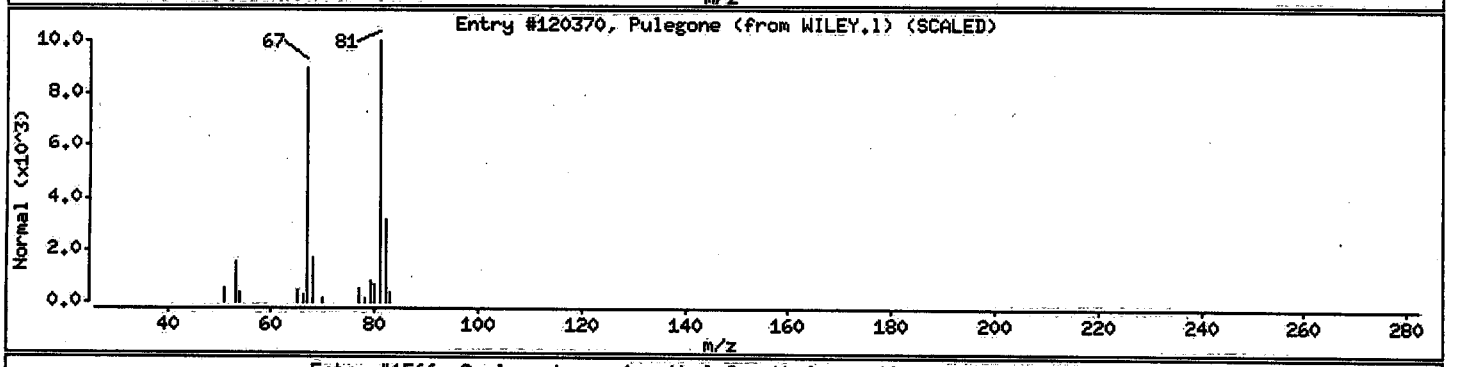
Column phase: ZB-5

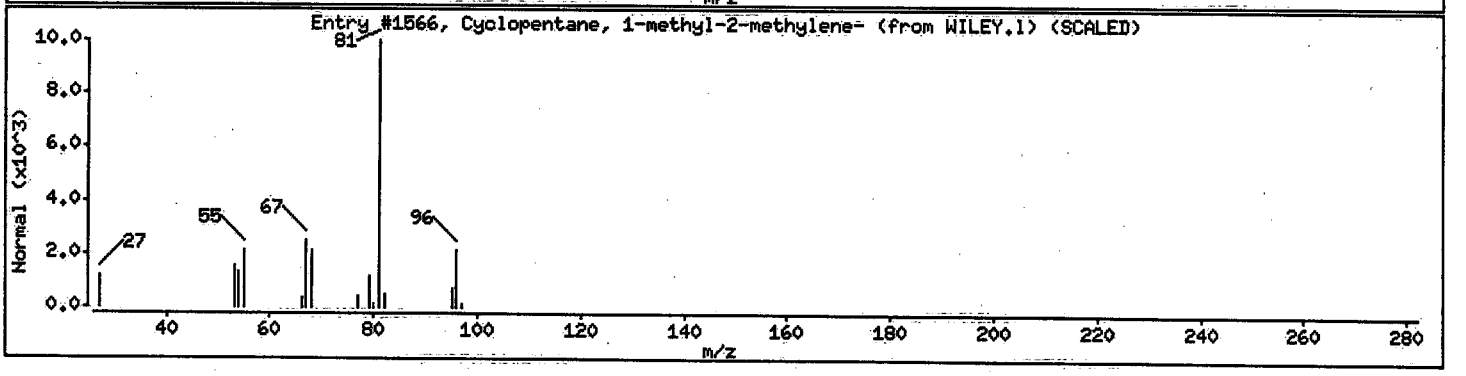
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
ETHENYL-CYCLOHEXANE	0-00-0	WILEY.l	3204	47	C8H14	110
Pulegone	89-82-7	WILEY.l	120370	38	C10H16O	152
Cyclopentane, 1-methyl-2-methylene-	41159-41-2	WILEY.l	1566	38	C7H12	96









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Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

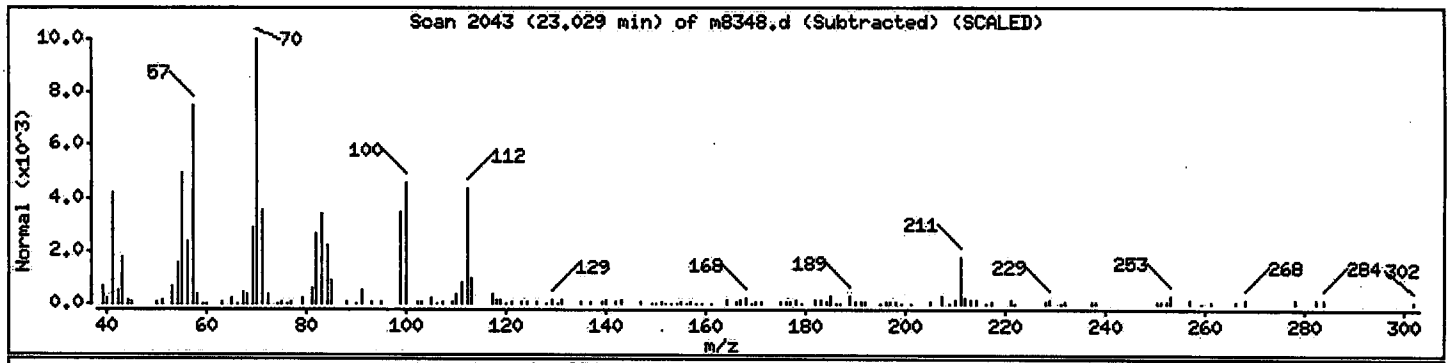
Volume Injected (uL): 2.0

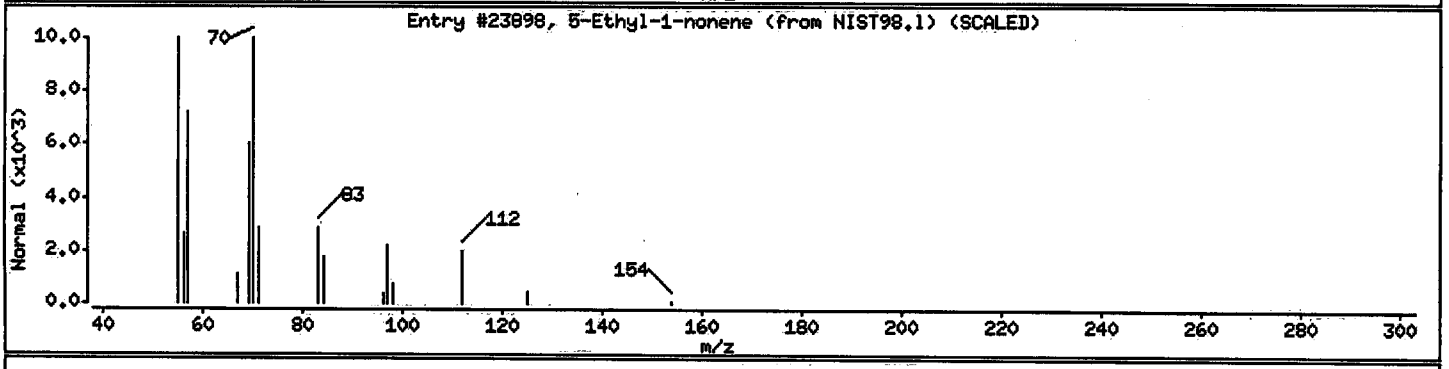
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5-Ethyl-1-nonene	19780-74-6	NIST98.1	23898	50	C11H22	154





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Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

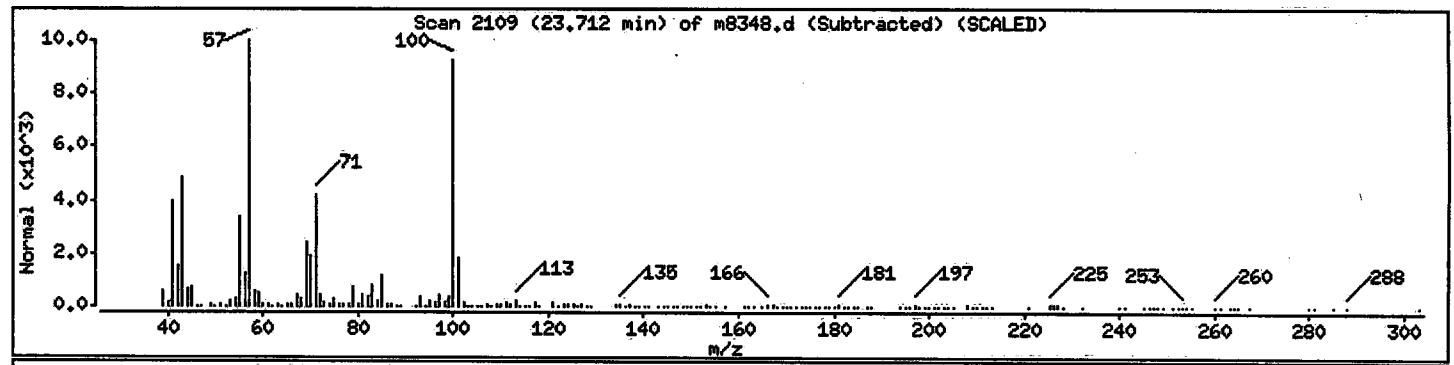
Volume Injected (uL): 2.0

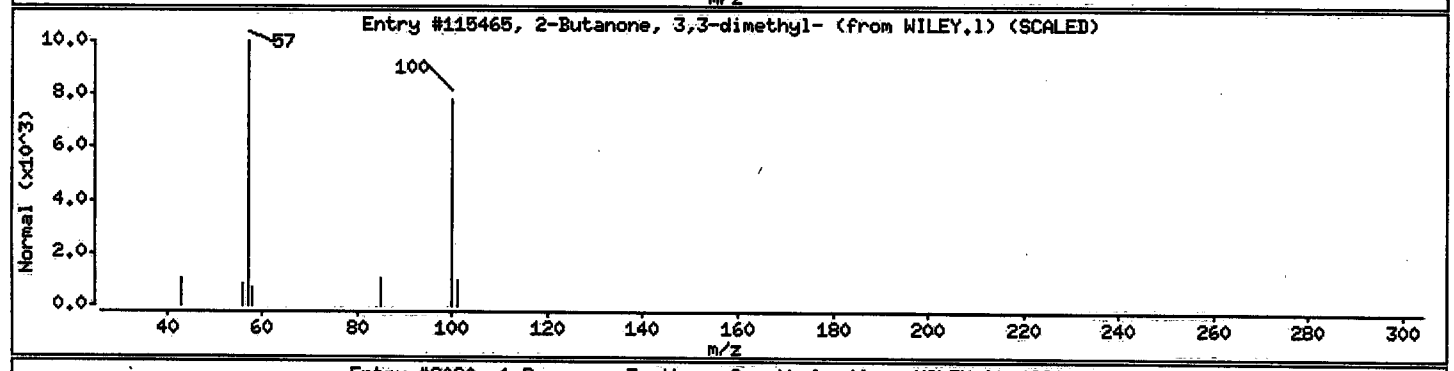
Operator: dce

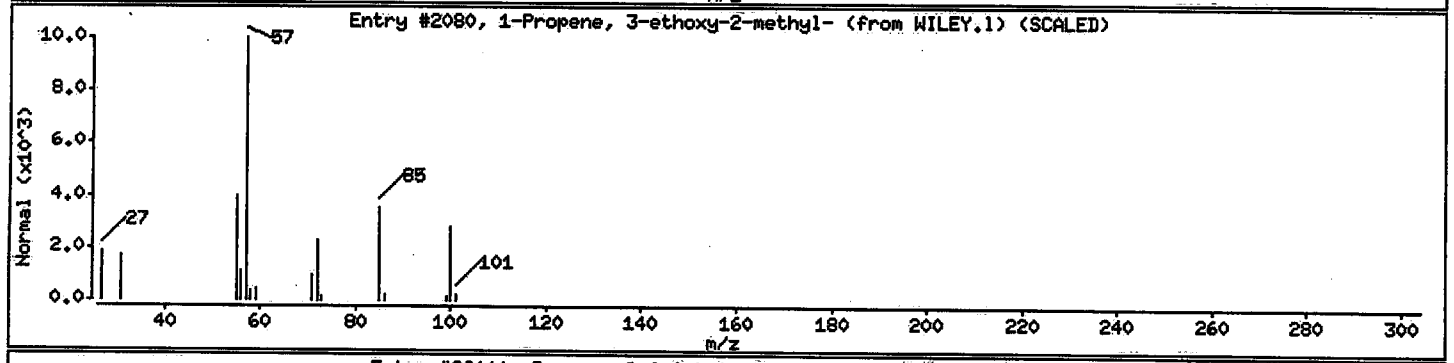
Column phase: ZB-5

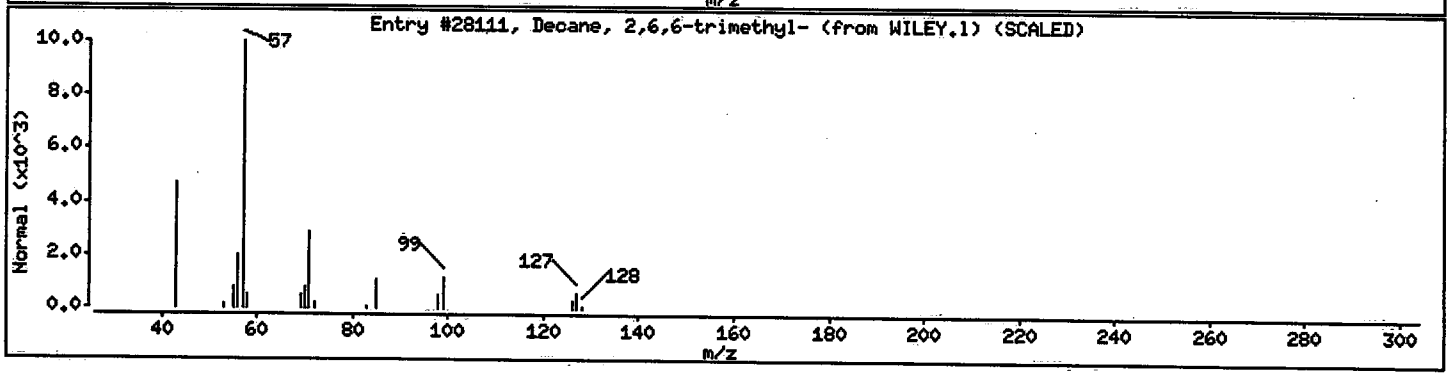
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butanone, 3,3-dimethyl-	75-97-8	WILEY.l	115465	43	C6H12O	100
1-Propene, 3-ethoxy-2-methyl-	24309-28-2	WILEY.l	2080	38	C6H12O	100
Decane, 2,6,6-trimethyl-	62108-24-1	WILEY.l	28111	27	C13H28	184









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Date : 17-JUL-2003 16:02

Client ID:

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Sample Info: 0307090-06A

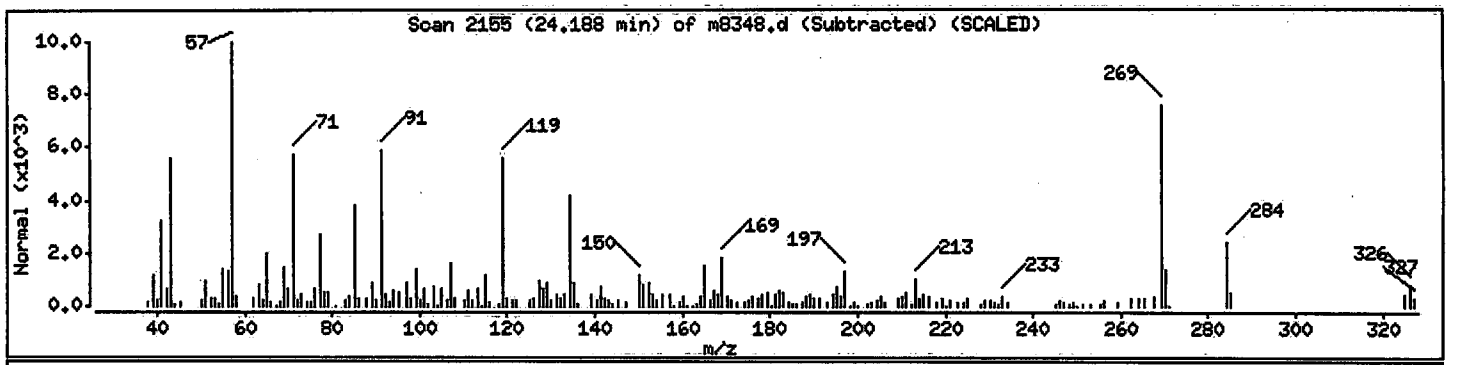
Volume Injected (uL): 2.0

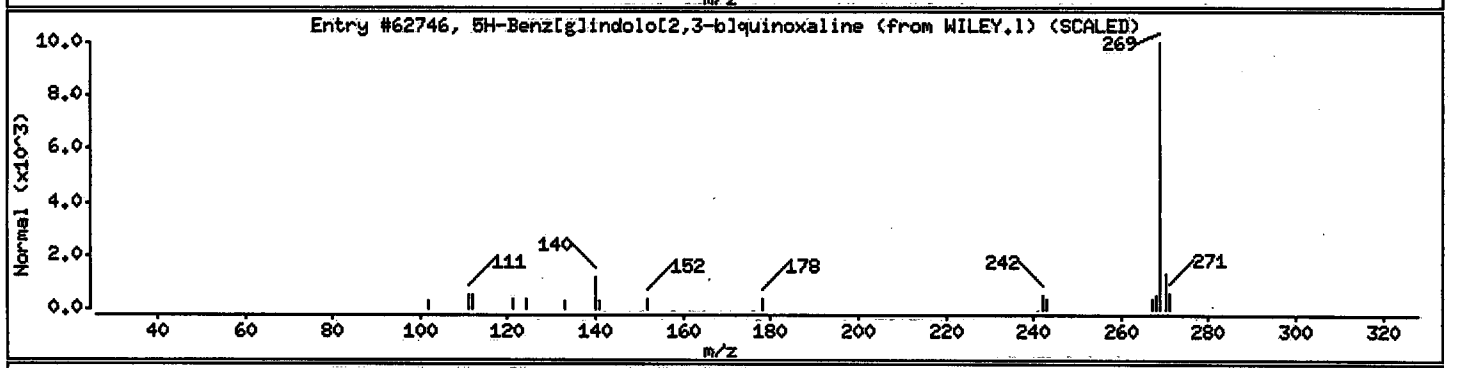
Operator: dce

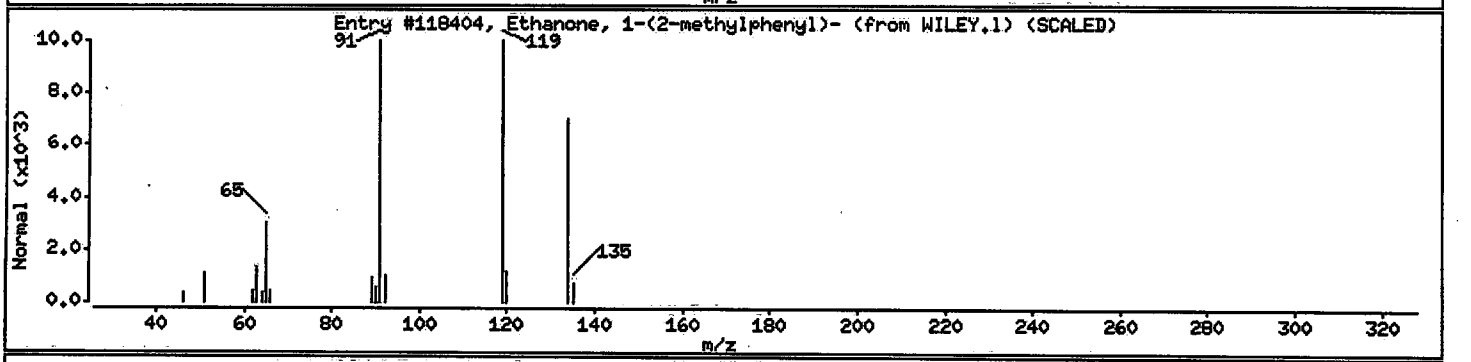
Column phase: ZB-5

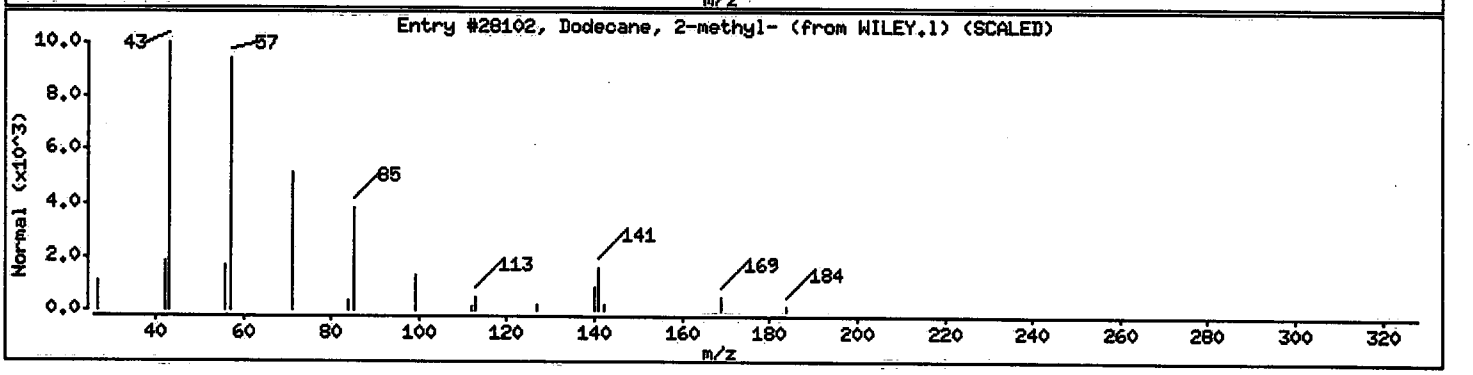
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
5H-Benz[g]indolo[2,3-b]quinoxaline	249-06-9	WILEY.1	62746	27	C18H11N3	269
Ethanone, 1-(2-methylphenyl)-	577-16-2	WILEY.1	118404	25	C9H10O	134
Dodecane, 2-methyl-	1560-97-0	WILEY.1	28102	25	C13H28	184









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Date : 17-JUL-2003 16:02

Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

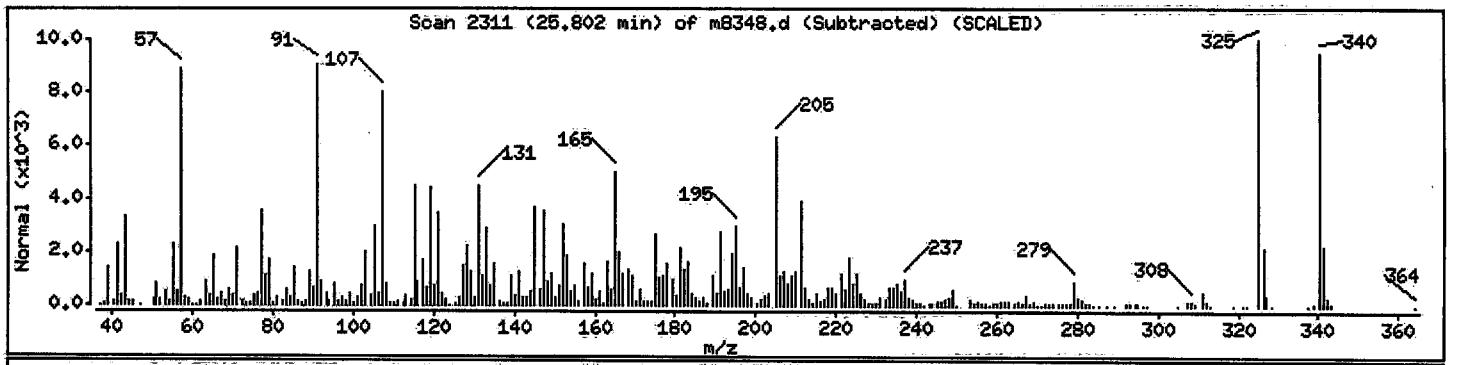
Volume Injected (uL): 2.0

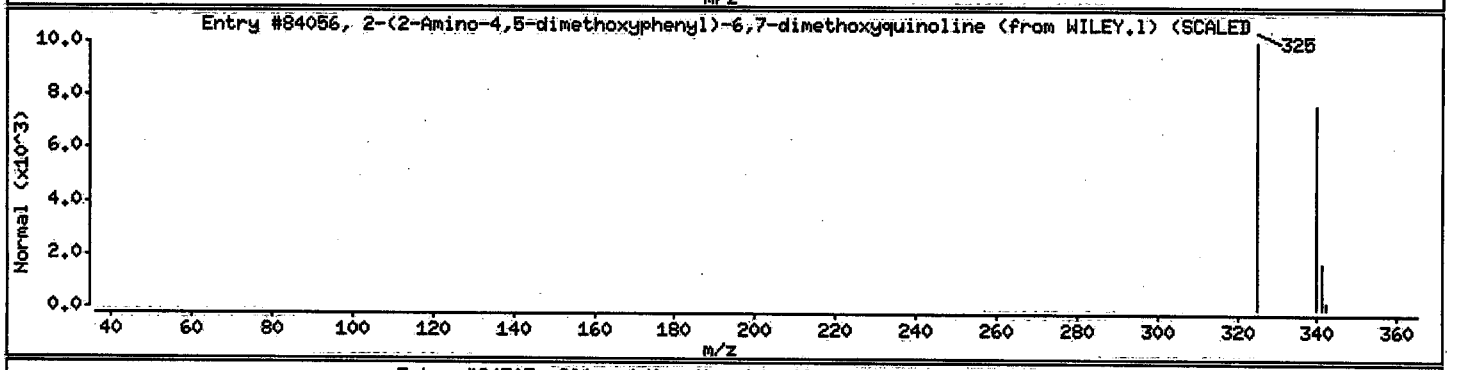
Operator: dce

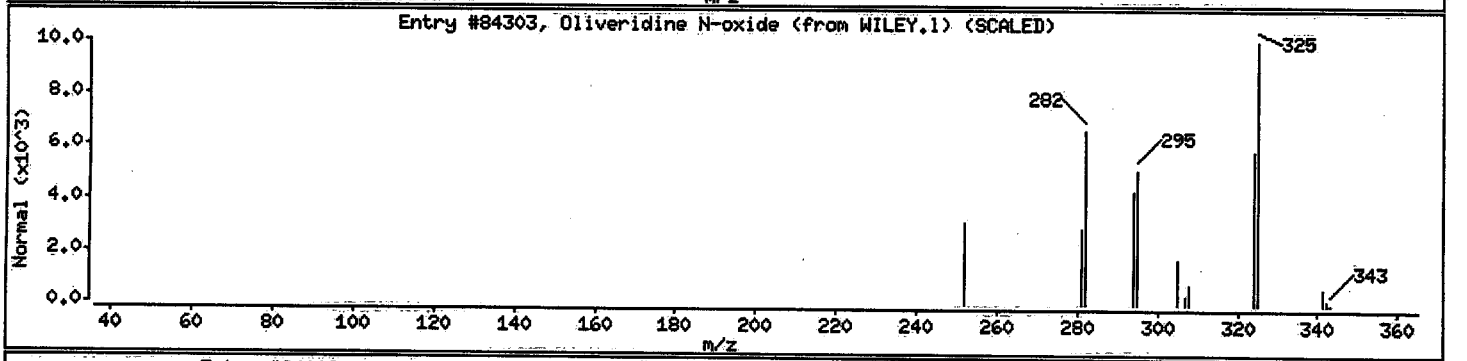
Column phase: ZB-5

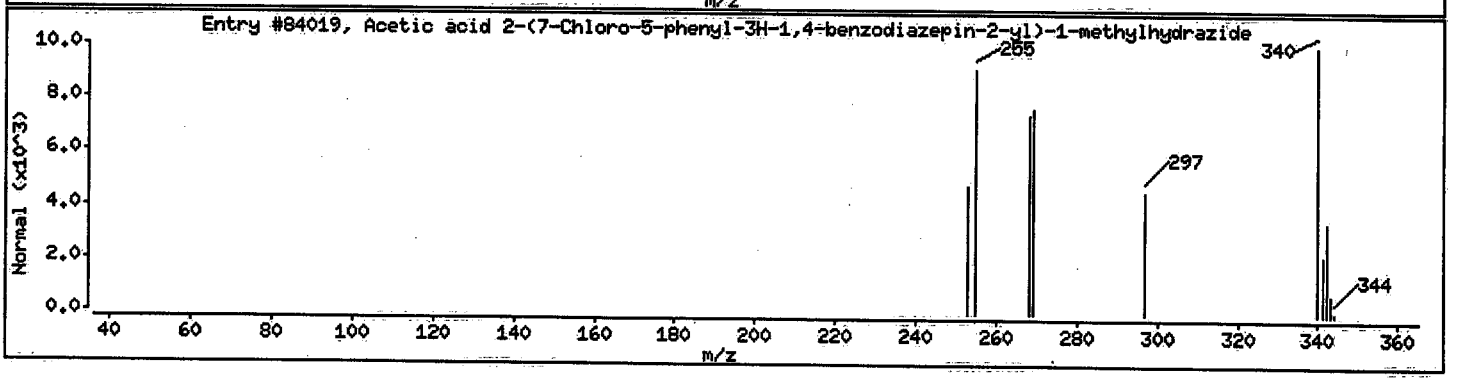
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime	76798-50-0	WILEY.1	84056	78	C19H20N2O4	340
Oliveridine N-oxide	62173-00-6	WILEY.1	84303	45	C19H19NO5	341
Acetic acid 2-(7-Chloro-5-phenyl-3H-1,4-	41154-37-4	WILEY.1	84019	43	C18H17ClN4O	340









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Client ID:

Instrument: molly.i

Sample Info: 0307090-06A

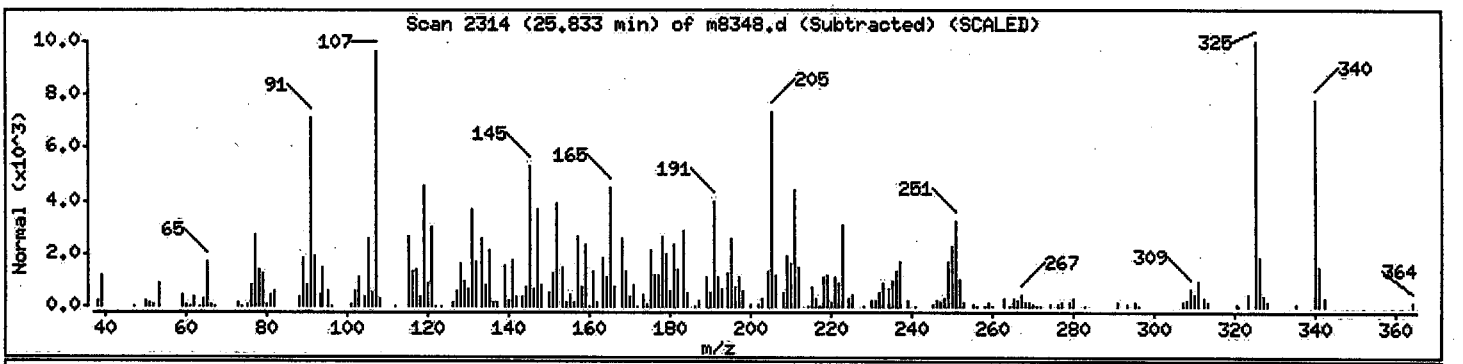
Volume Injected (uL): 2.0

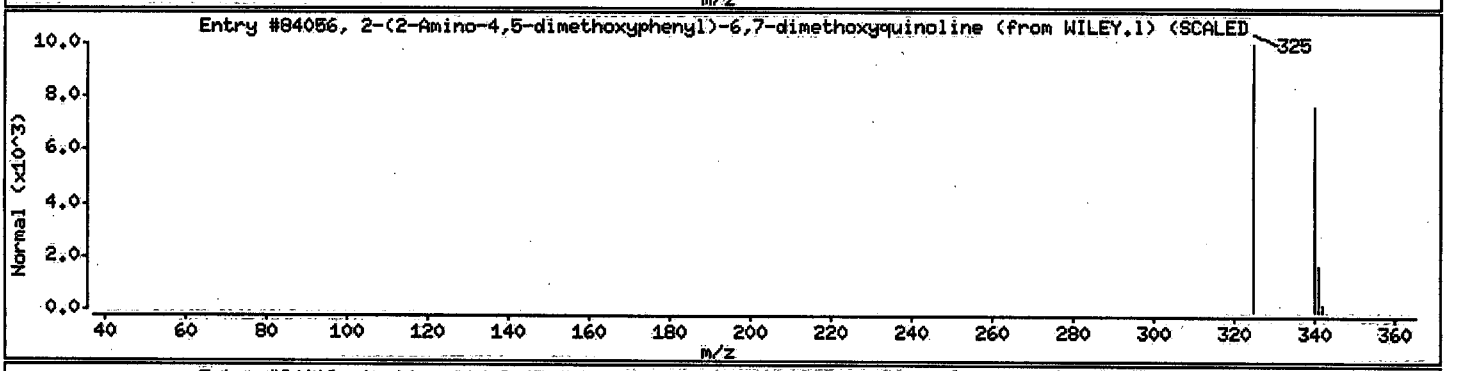
Operator: dce

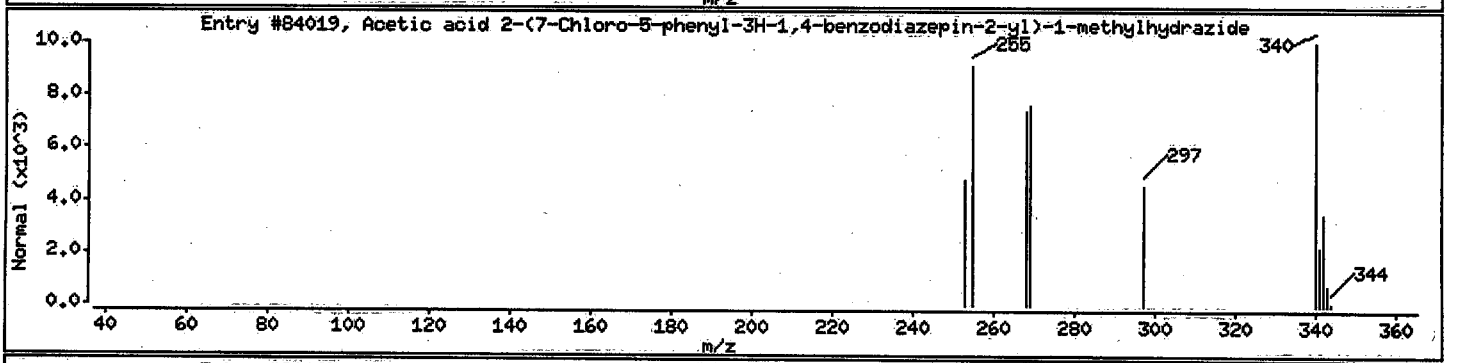
Column phase: ZB-5

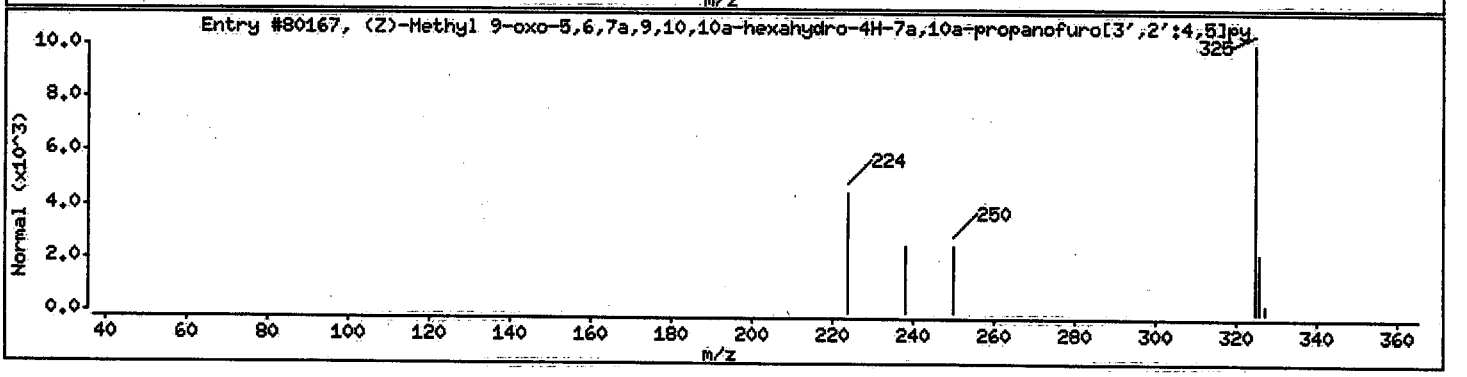
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-(2-Amino-4,5-dimethoxyphenyl)-6,7-dime	76798-50-0	WILEY.1	84056	83	C19H20N2O4	340
Acetic acid 2-(7-Chloro-5-phenyl-3H-1,4-	41154-37-4	WILEY.1	84019	43	C18H17ClN4O	340
(Z)-Methyl 9-oxo-5,6,7a,9,10,10a-hexahyd	86340-32-1	WILEY.1	80167	38	C19H19NO4	325









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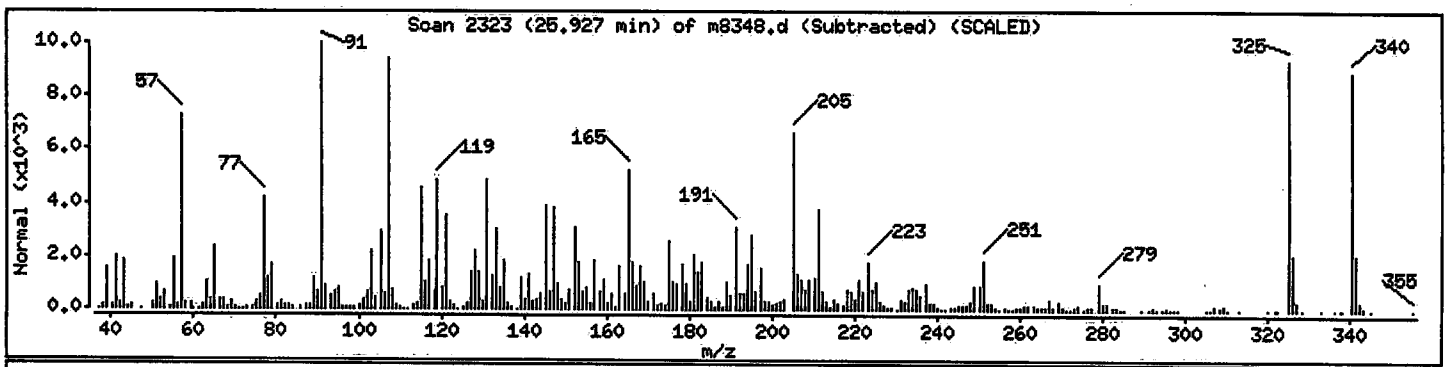
Volume Injected (uL): 2.0

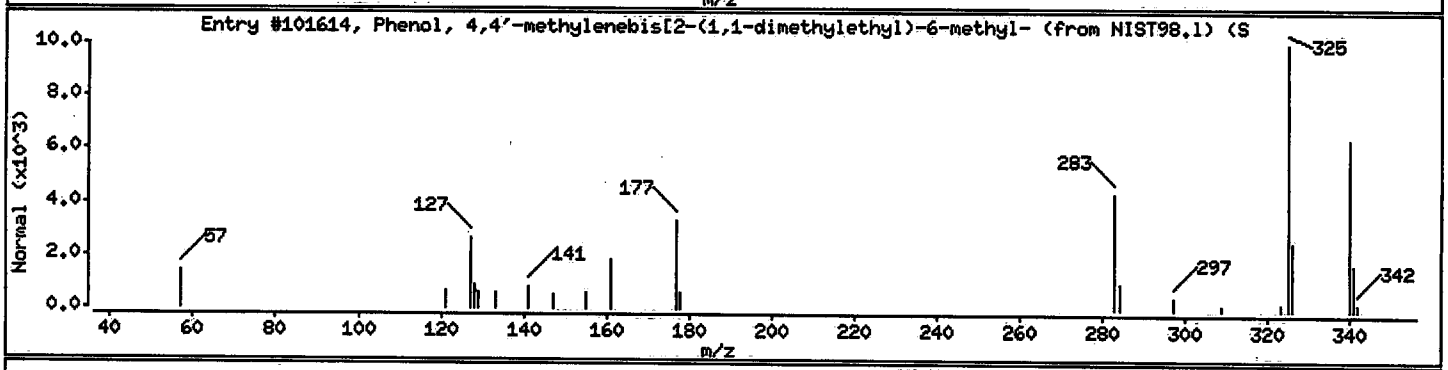
Operator: dce

Column phase: ZB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Phenol, 4,4'-methylenebis[2-(1,1-dimethy	96-65-1	NIST98.1	101614	55	C23H32O2	340





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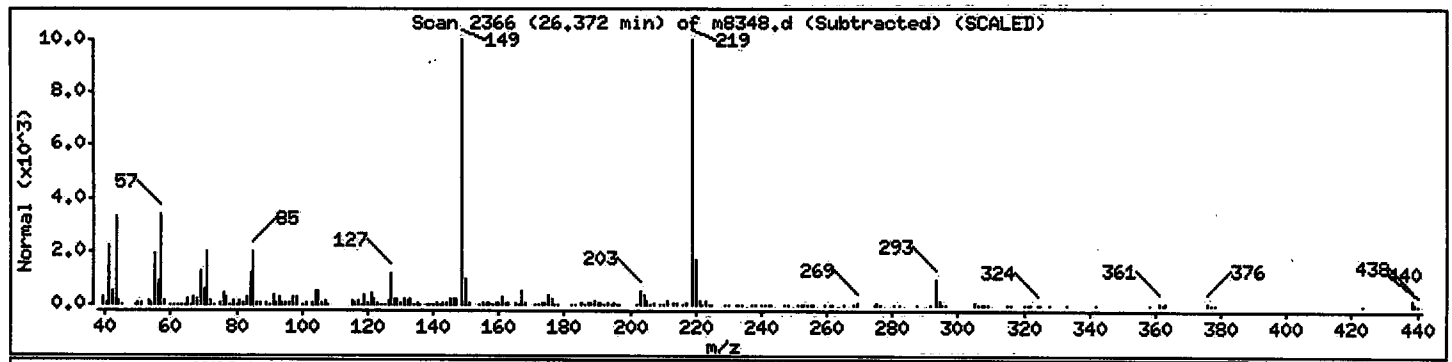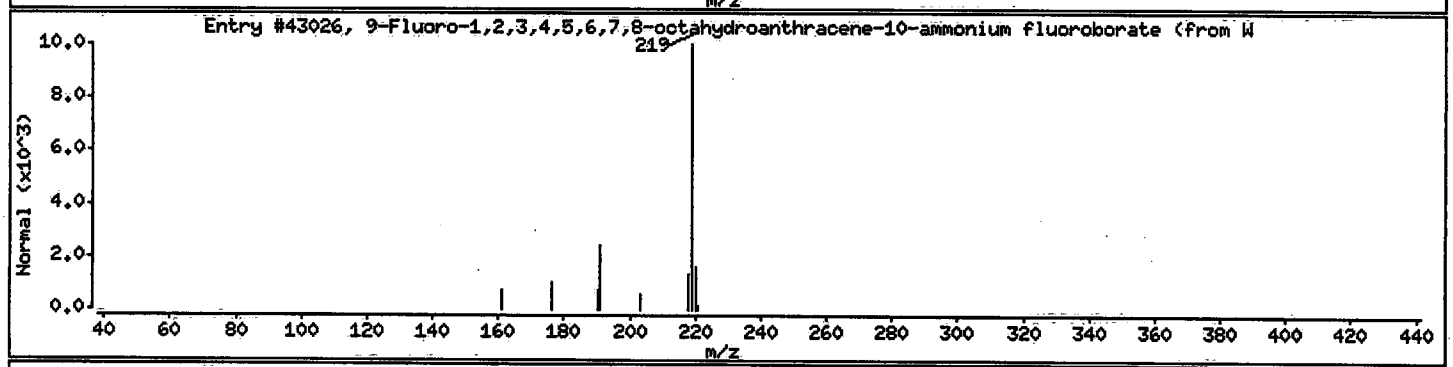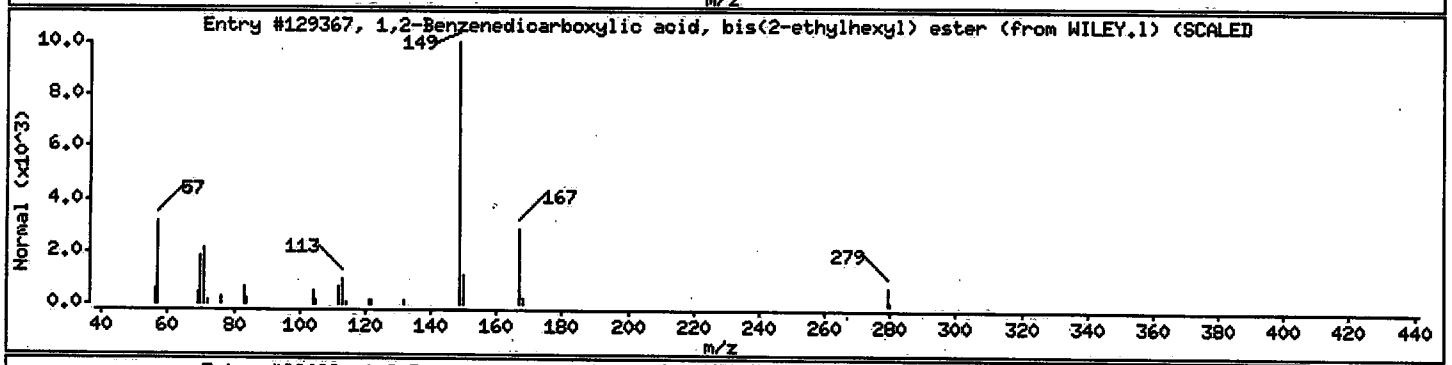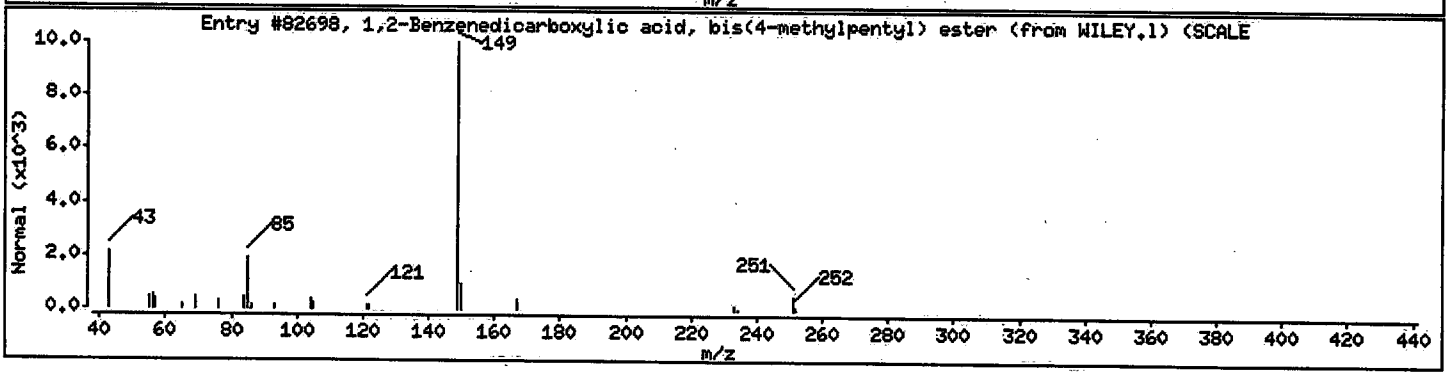
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Fluoro-1,2,3,4,5,6,7,8-octahydroanthra	58325-09-0	WILEY.1	43026	72	C14H18FN	219
1,2-Benzenedicarboxylic acid, bis(2-ethy	117-81-7	WILEY.1	129367	35	C24H3804	390
1,2-Benzenedicarboxylic acid, bis(4-meth	146-50-9	WILEY.1	82698	35	C20H3004	334