Data File: /chem1/nt6.i/20071018.b/lr71h.d

Date : 18-OCT-2007 19:10

Client ID: AN-SS-04

Instrument: nt6.i

Sample Info: LR71H

Volume Injected (uL): 1.0

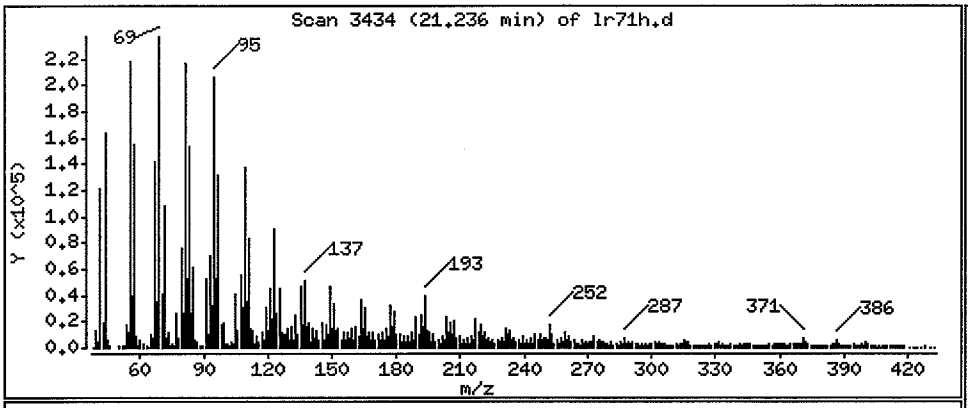
Operator: LJR/VTS

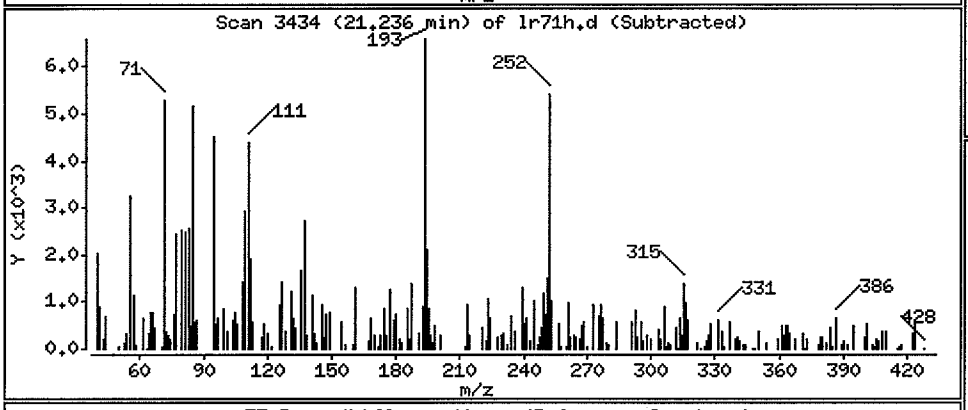
Column phase: ZB-5

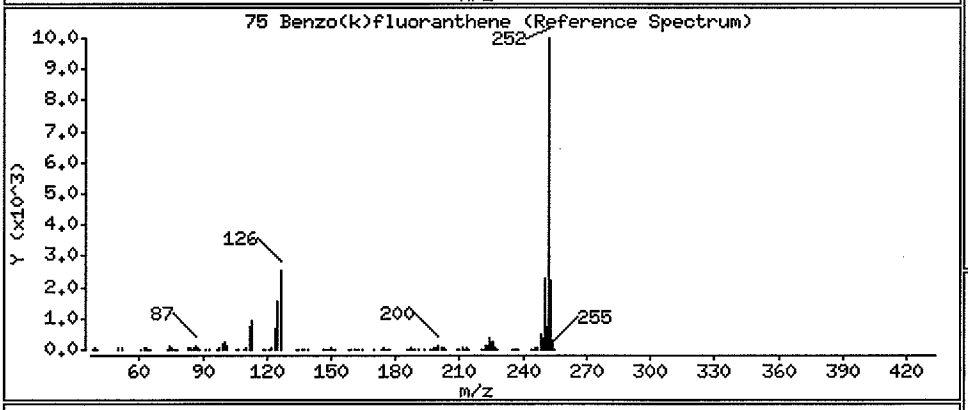
Column diameter: 0.32

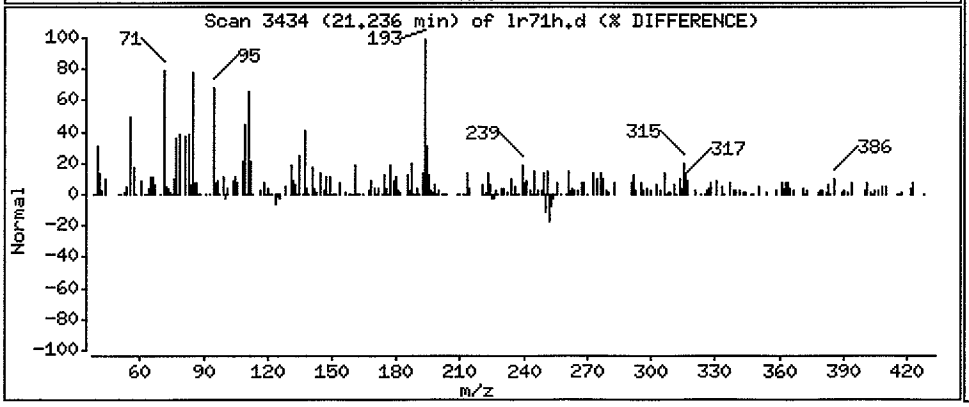
75 Benzo(k)fluoranthene

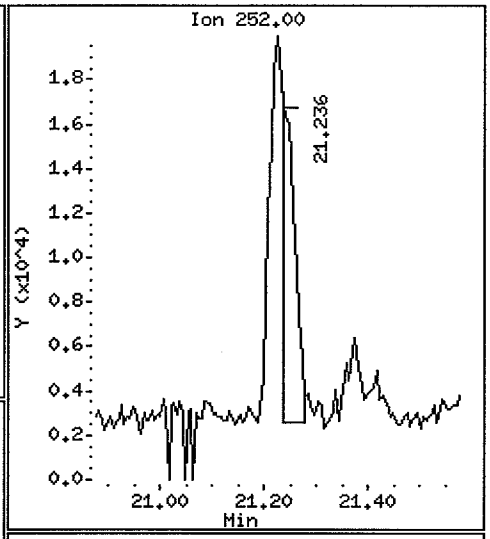
Concentration: 10.79 ug/kg

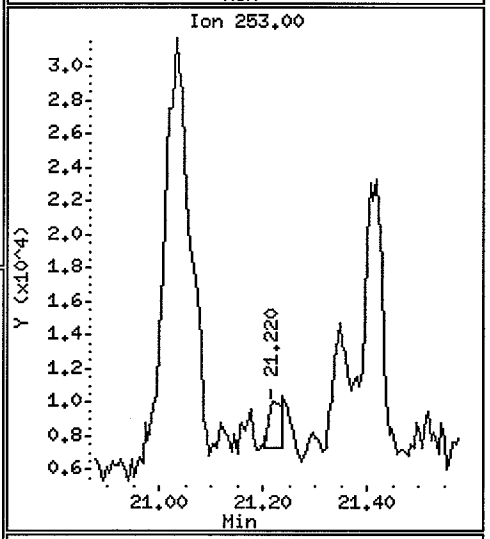


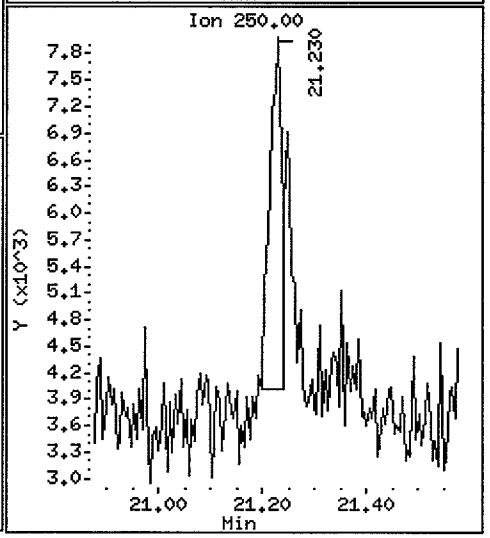












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-04
REEXTRACT

Lab Sample ID: LR71H
LIMS ID: 07-20773
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/28/07
Date Received: 09/29/07

Date Extracted: 10/27/07
Date Analyzed: 11/01/07 20:50
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 36.6%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**20**
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
67-72-1	Hexachloroethane	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	9.9	< 9.9 UJ
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	**Diethylphthalate**	**20**	**33**
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	9.9	< 9.9 UJ
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**34**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**44**
129-00-0	**Pyrene**	**20**	**33**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**110 B**
218-01-9	**Chrysene**	**20**	**26**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-04**
Page 2 of 2 **REEXTRACT**

Lab Sample ID: LR71H QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20773 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 11/01/07 20:50

CAS Number	Analyte	RL	Result
90-12-0	1-Methylnaphthalene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	58.4%
d14-p-Terphenyl	54.4%	d4-1,2-Dichlorobenzene	52.0%
d5-Phenol	56.3%	2-Fluorophenol	46.4%
2,4,6-Tribromophenol	59.2%	d4-2-Chlorophenol	55.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr71h2.d
Lab Smp Id: LR71HRE
Inj Date : 01-NOV-2007 20:50
Operator : VTS Inst ID: nt4.i
Smp Info : LR71HRE
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20071101.b/SW846.m
Meth Date : 02-Nov-2007 11:41 jeff Quant Type: ISTD
Cal Date : 01-OCT-2007 11:04 Cal File: 0801001.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	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 (ug/mL)	FINAL (ug/Kg)
$ 1	2-Fluorophenol	112	4.827	4.748	(0.707)	241071	17.3558	347.1
$ 2	Phenol-d5	99	6.509	6.489	(0.954)	327624	21.0731	421.5
3	Phenol	94	6.525	6.505	(0.956)	18580	1.00628	20.13
$ 5	2-Chlorophenol-d4	132	6.536	6.521	(0.958)	241272	20.9212	418.4
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	6.825	6.820	(1.000)	164152	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	7.124	7.114	(1.044)	96650	13.0249	260.5
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.775	7.771	(0.877)	225268	14.1017	282.0
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	8.716	8.813	(0.983)	59423	5.82644 LAL	116.5(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.871	8.872	(1.000)	605587	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.676	10.677	(0.914)	313040	14.6360	292.7
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.681	11.682	(1.000)	309756	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	12.578	12.585	(1.077)	35648	1.64924	32.98
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.957	12.953	(1.109)	59234	22.2141	444.3
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.999	14.000	(1.000)	442675	20.0000	
	60 Phenanthrene	178	14.031	14.032	(1.002)	52849	1.72742	34.55
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	15.933	15.923	(1.138)	72851	2.19940	43.99
	65 Pyrene	202	16.269	16.260	(0.892)	71332	1.67716	33.54
$	66 Terphenyl-d14	244	16.649	16.634	(0.912)	334477	13.6226	272.5
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.219	18.199	(0.999)	24526	0.62181 LDL	12.44 (M)
*	69 Chrysene-d12	240	18.246	18.221	(1.000)	530706	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	18.278	18.258	(1.002)	49950	1.28742	25.75 (M)
	72 bis(2-Ethylhexyl)phthalate	149	18.604	18.578	(0.952)	122565	5.40246 (B)	108.0
*	134 Di-n-octylphthalate-d4	153	19.534	19.503	(1.000)	720058	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.859	19.818	(0.975)	37427	0.98163 LDL	19.63 (M)
	75 Benzo(k)fluoranthene	252	19.875	19.850	(0.976)	29195	0.72485	14.50 (M)
	76 Benzo(a)pyrene	252	20.287	20.245	(0.996)	24574	0.72372	14.47 (H)
*	77 Perylene-d12	264	20.372	20.325	(1.000)	559995	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: lr71h2.d
Lab Smp Id: LR71HRE
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt4.i/20071101.b/SW846.m
Misc Info:

Calibration Date: 01-NOV-2007
Calibration Time: 14:35

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145384	72692	290768	164152	12.91
27 Naphthalene-d8	530525	265262	1061050	605587	14.15
42 Acenaphthene-d10	280701	140350	561402	309756	10.35
59 Phenanthrene-d10	391934	195967	783868	442675	12.95
69 Chrysene-d12	354658	177329	709316	530706	49.64
134 Di-n-octylphthala	506314	253157	1012628	720058	42.22
77 Perylene-d12	400782	200391	801564	559995	39.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.82	6.32	7.32	6.82	0.06
27 Naphthalene-d8	8.87	8.37	9.37	8.87	-0.01
42 Acenaphthene-d10	11.68	11.18	12.18	11.68	-0.01
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	-0.01
69 Chrysene-d12	18.22	17.72	18.72	18.25	0.14
134 Di-n-octylphthala	19.50	19.00	20.00	19.53	0.16
77 Perylene-d12	20.33	19.83	20.83	20.37	0.23

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

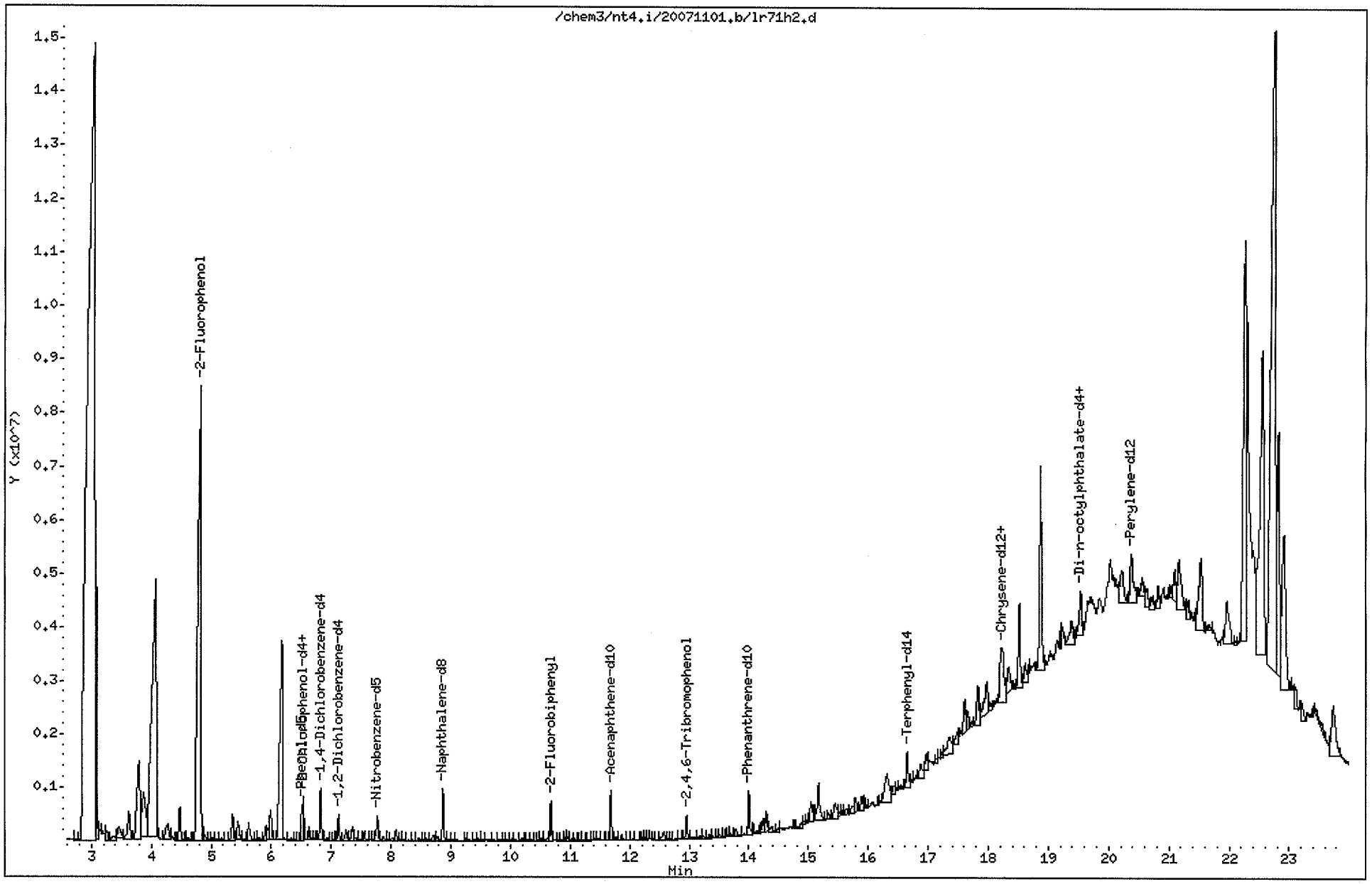
RECOVERY REPORT

Client Name:
Client SDG: 20071101
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: LR71HRE
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PSDDALCS.spk
Quant Type: ISTD
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20071101.b/SW846.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	347.1	46.28	11-84
$ 2 Phenol-d5	750.0	421.5	56.19	25-86
$ 5 2-Chlorophenol-d4	750.0	418.4	55.79	23-91
$ 10 1,2-Dichlorobenzen	500.0	260.5	52.10	24-90
$ 18 Nitrobenzene-d5	500.0	282.0	56.41	26-88
$ 36 2-Fluorobiphenyl	500.0	292.7	58.54	34-91
$ 55 2,4,6-Tribromophen	750.0	444.3	59.24	25-107
$ 66 Terphenyl-d14	500.0	272.5	54.49	22-100

Data File: /chem3/nt4.i/20071101.b/lr71h2.d
Date : 01-NOV-2007 20:50
Client ID:
Sample Info: LR71HRE
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: VTS
Column diameter: 0.32



0518

Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

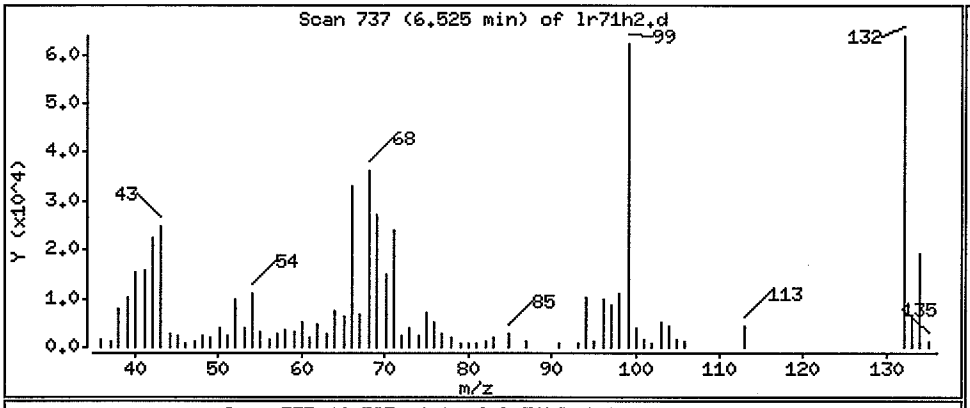
Operator: VTS

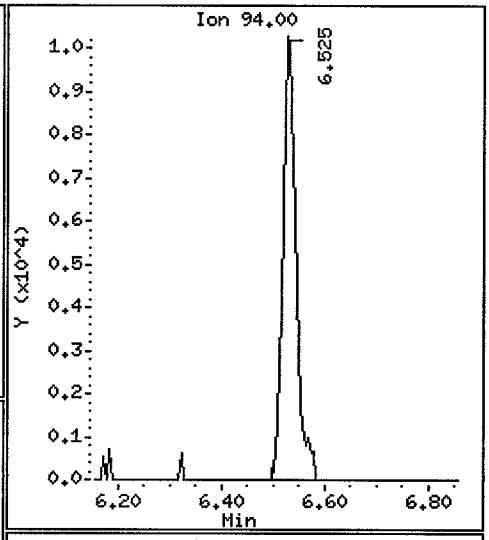
Column phase: ZB-5

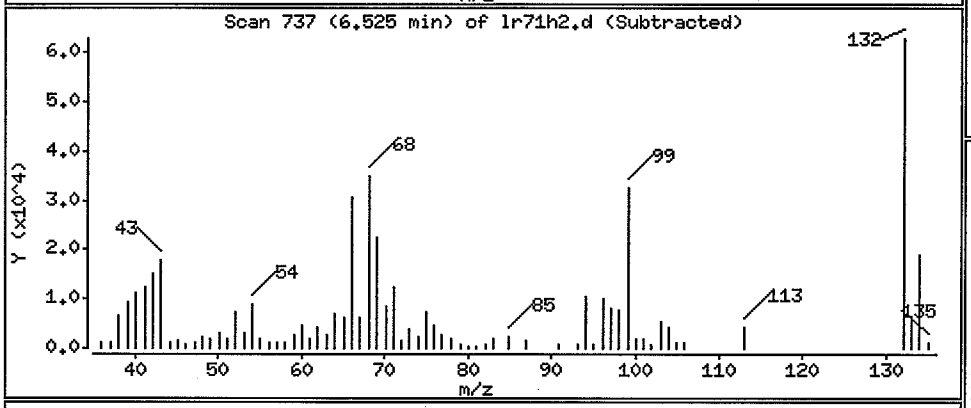
Column diameter: 0.32

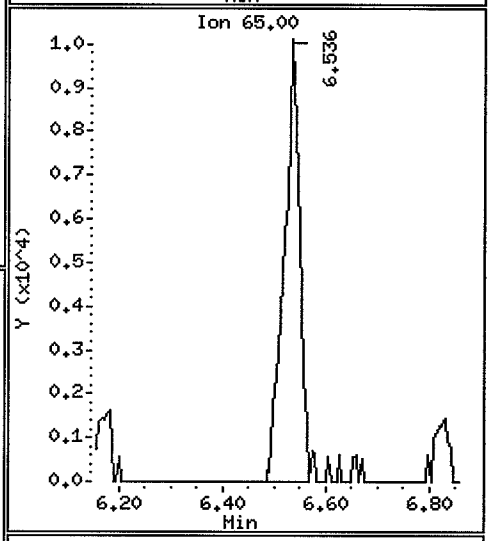
3 Phenol

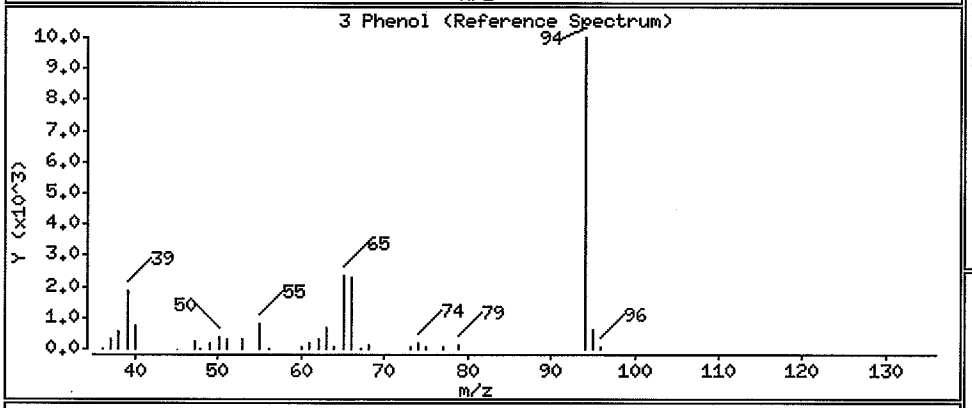
Concentration: 20.13 ug/Kg

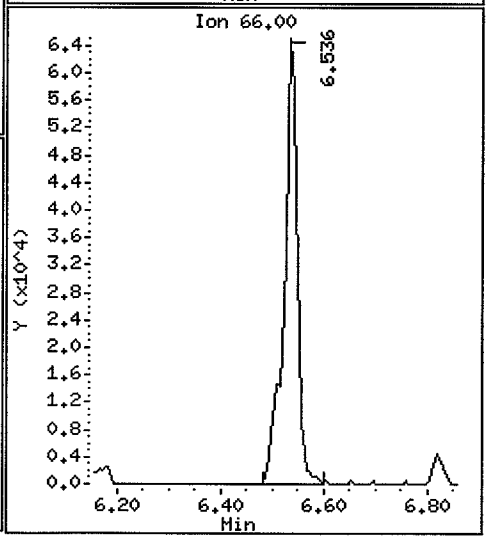


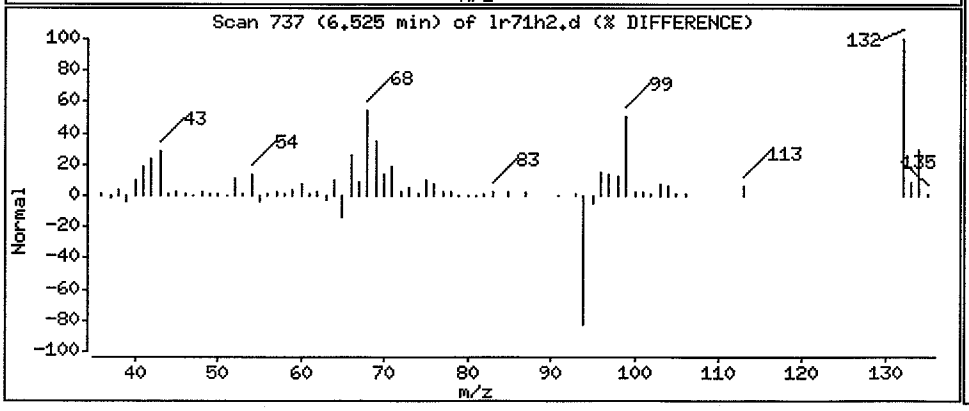












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

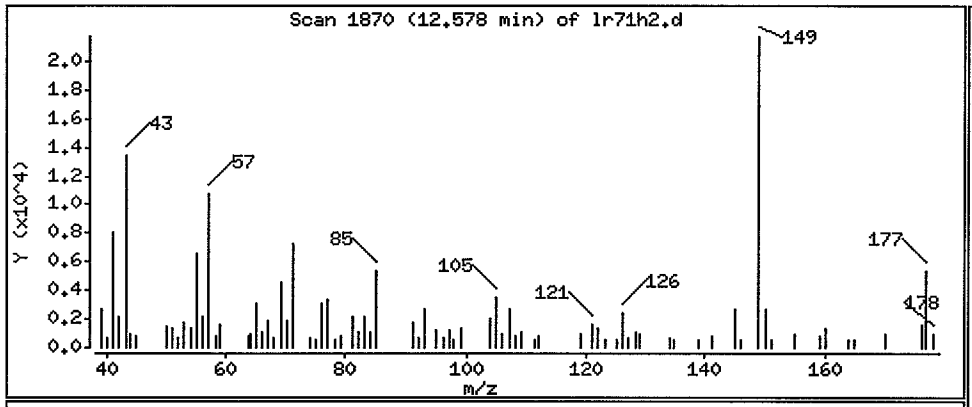
Operator: VTS

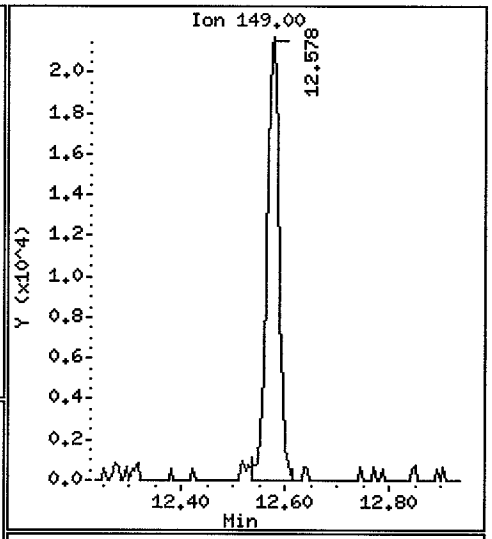
Column phase: ZB-5

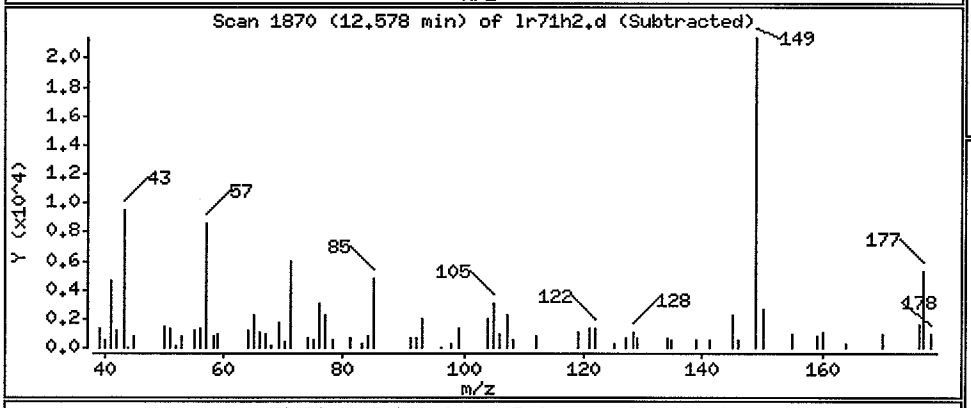
Column diameter: 0.32

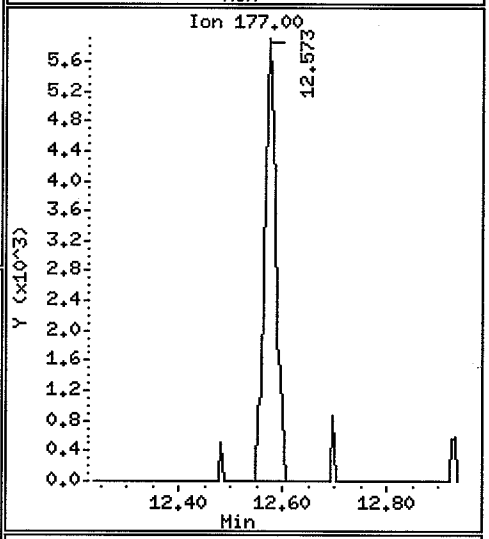
50 Diethylphthalate

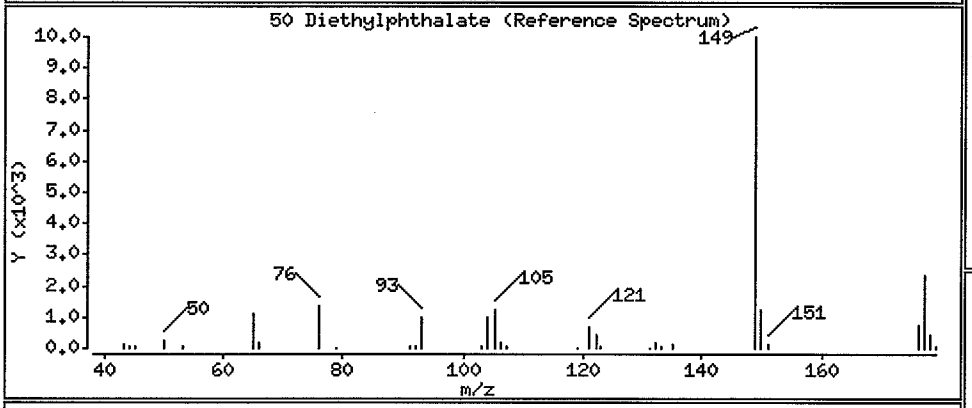
Concentration: 32.98 ug/Kg

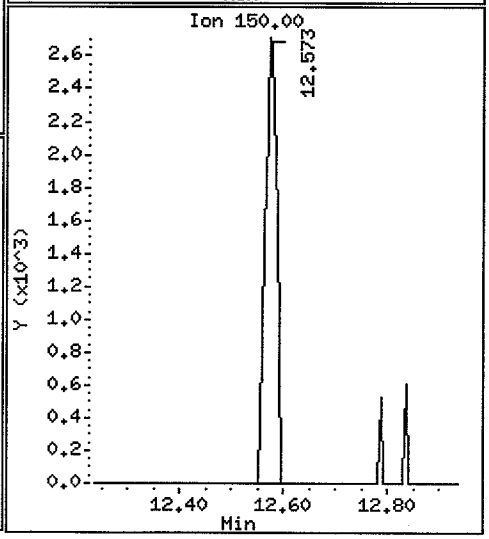


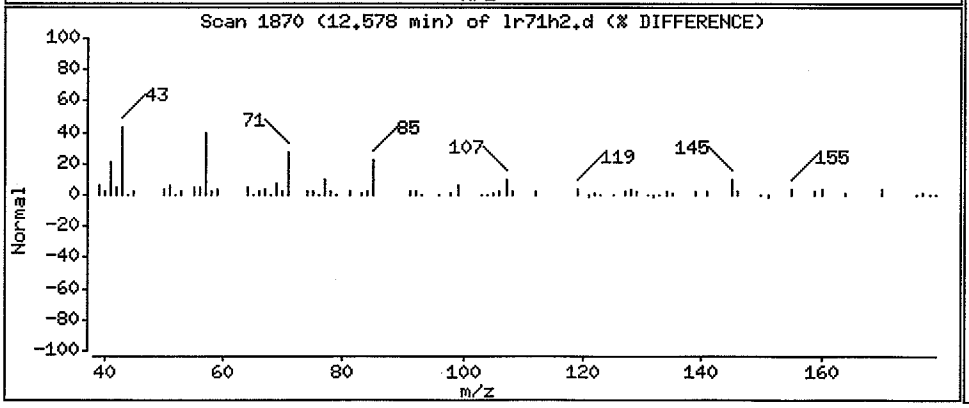












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

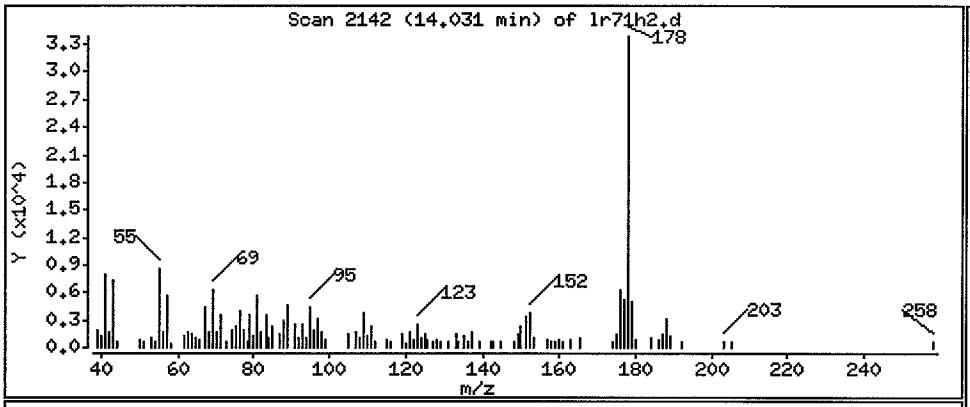
Operator: VTS

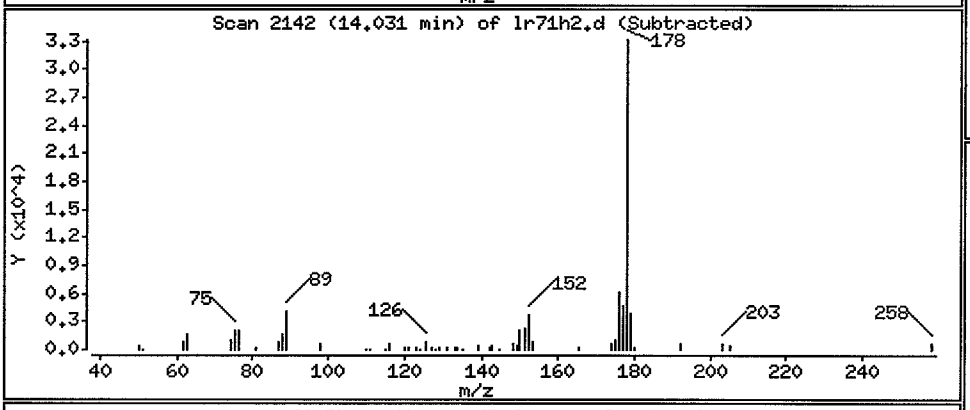
Column phase: ZB-5

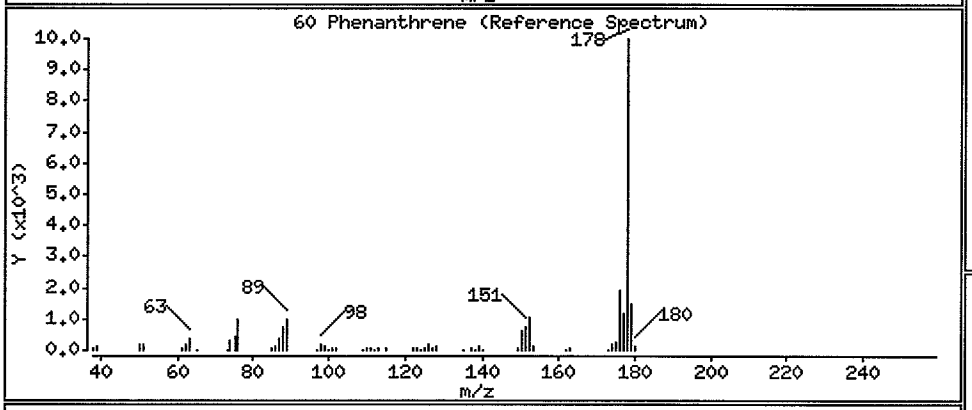
Column diameter: 0.32

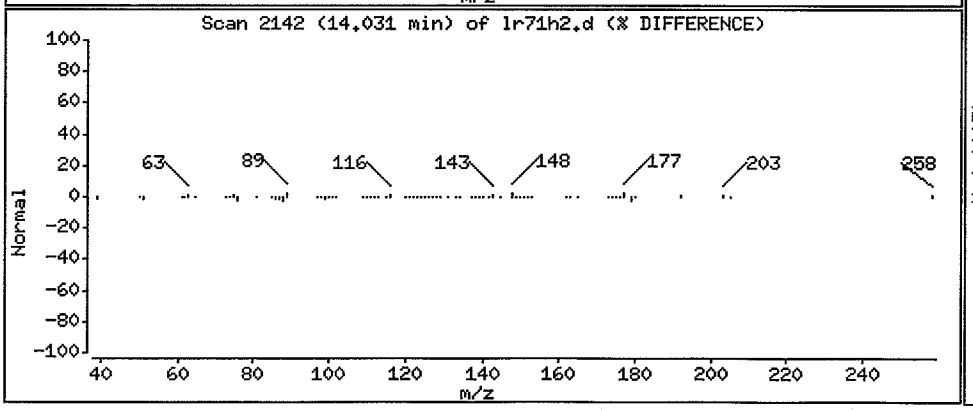
60 Phenanthrene

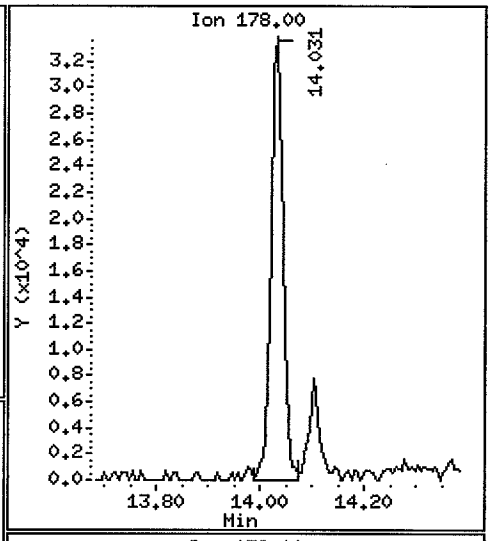
Concentration: 34.55 ug/Kg

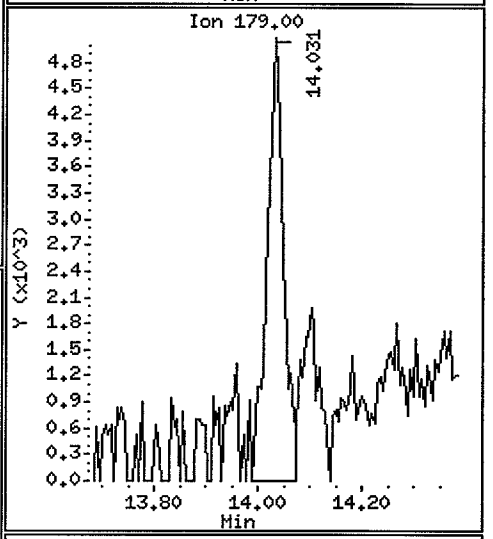


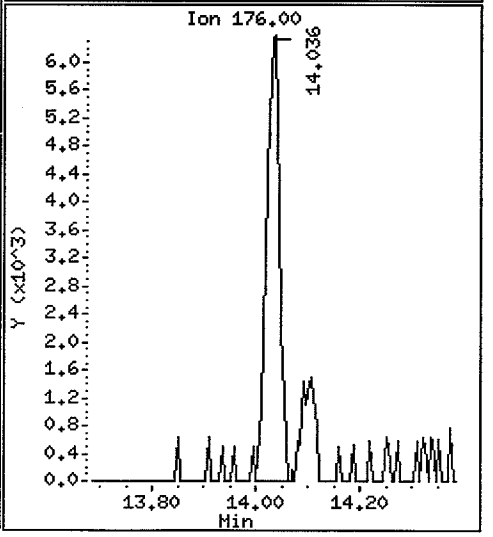












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

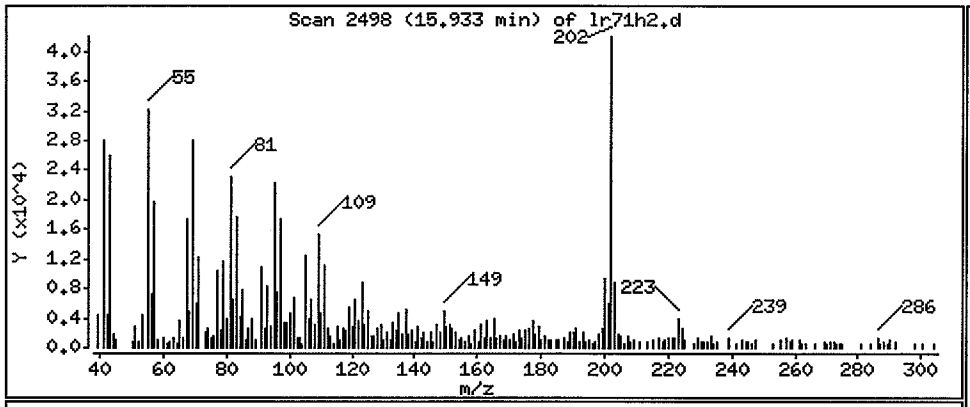
Operator: VTS

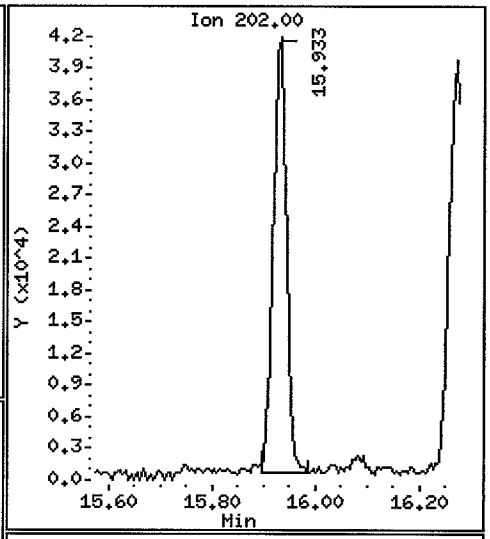
Column phase: ZB-5

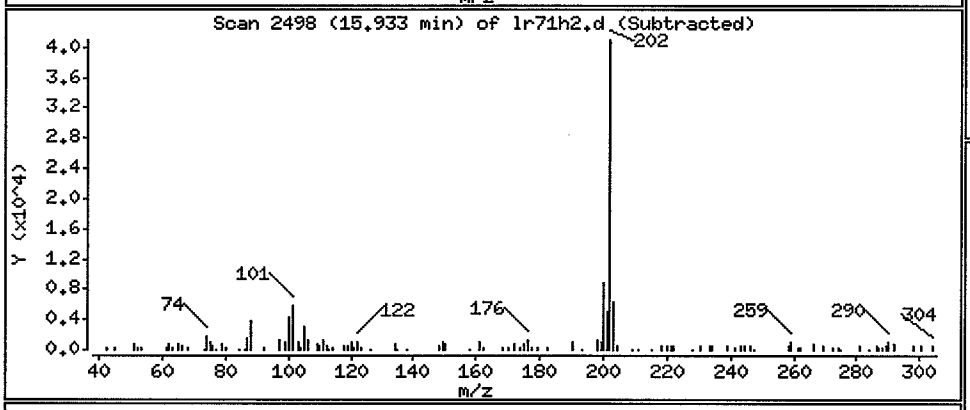
Column diameter: 0.32

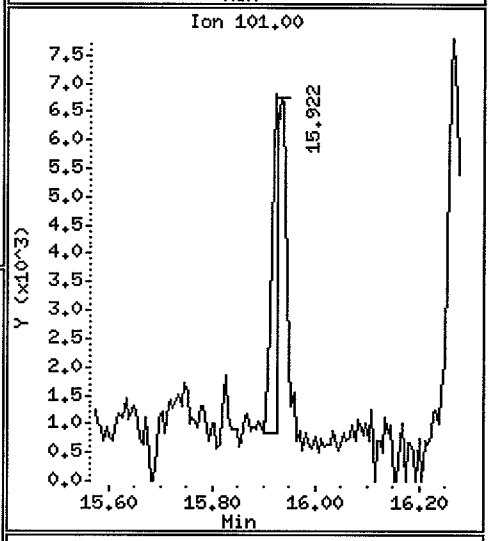
64 Fluoranthene

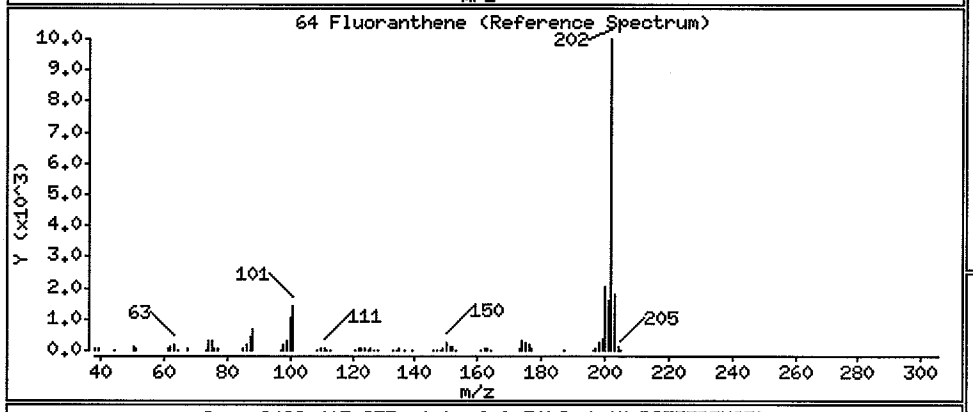
Concentration: 43.99 ug/Kg

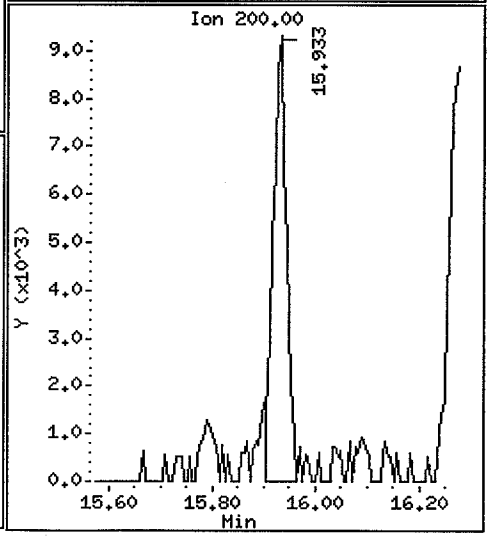


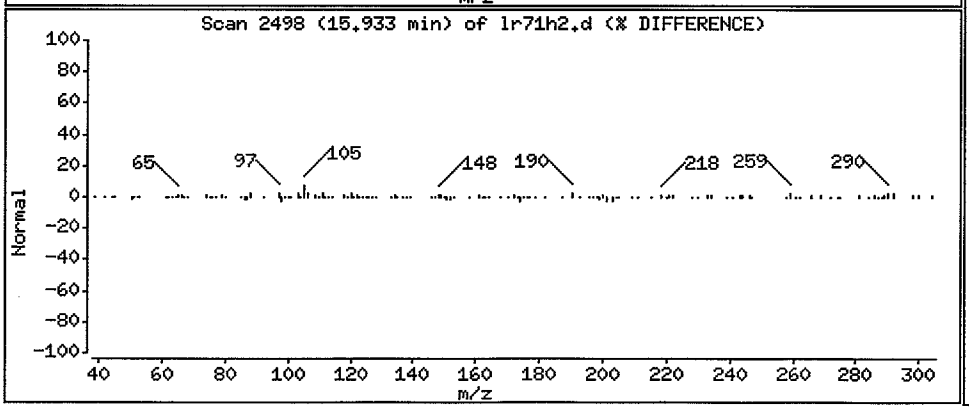












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

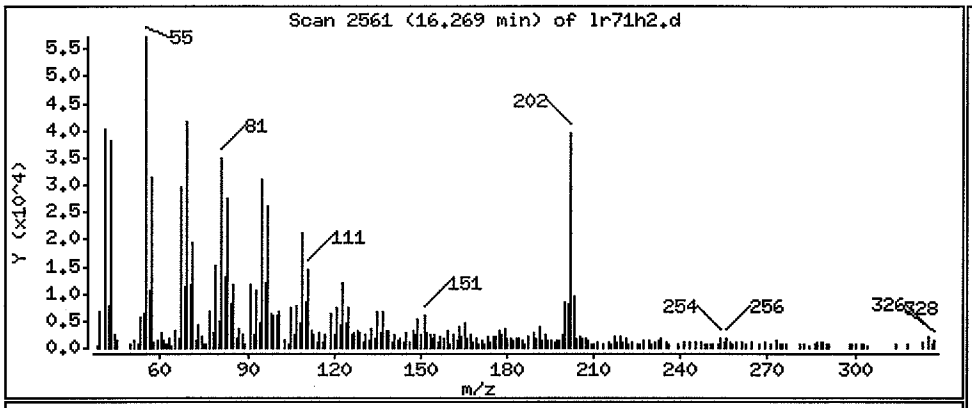
Operator: VTS

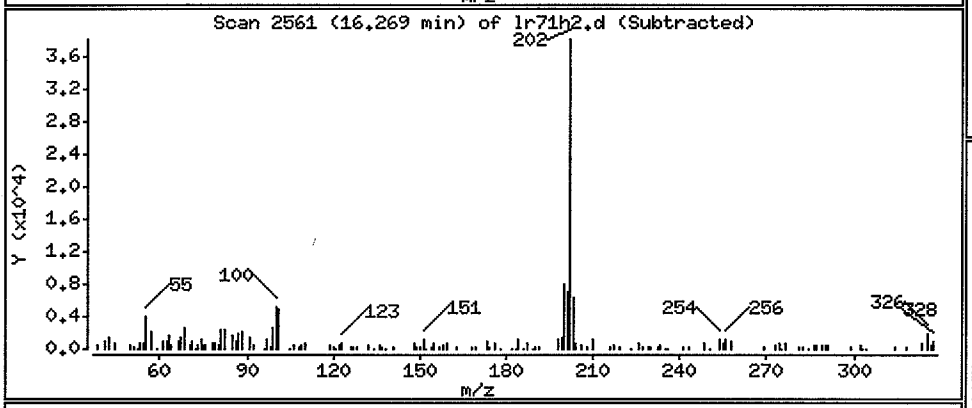
Column phase: ZB-5

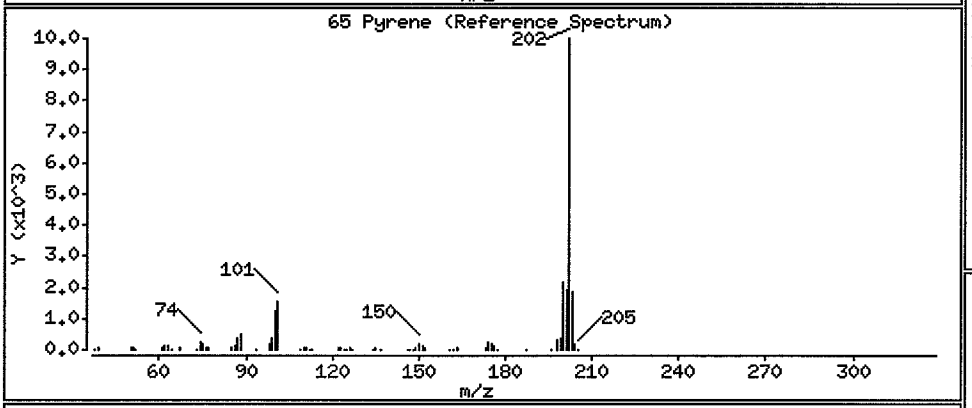
Column diameter: 0.32

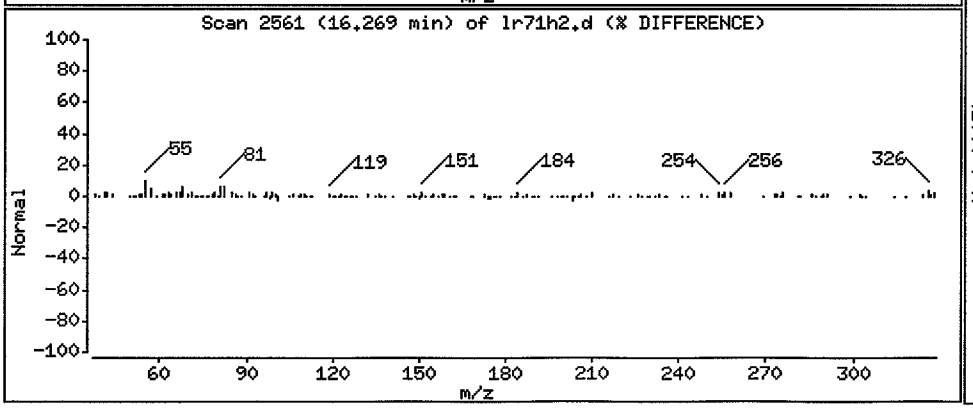
65 Pyrene

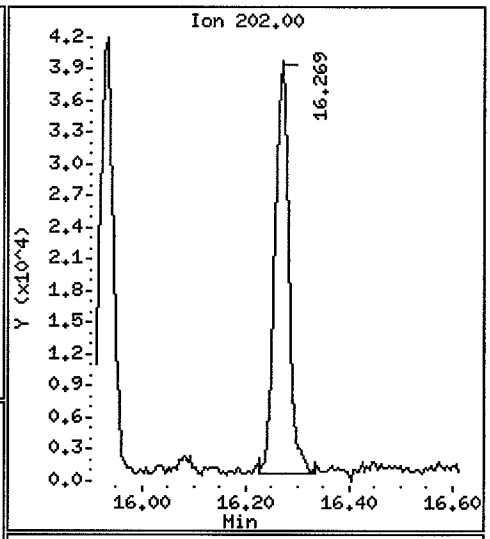
Concentration: 33.54 ug/Kg

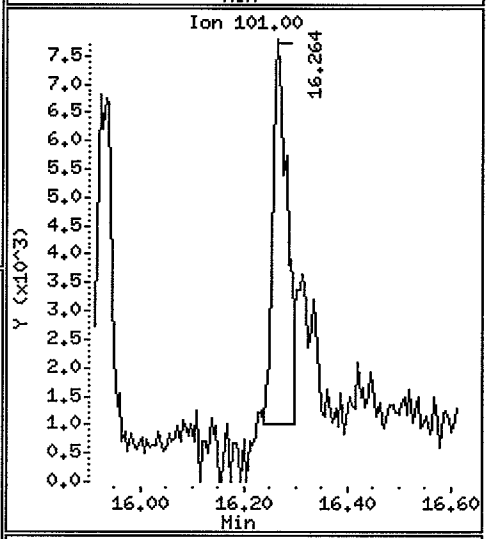


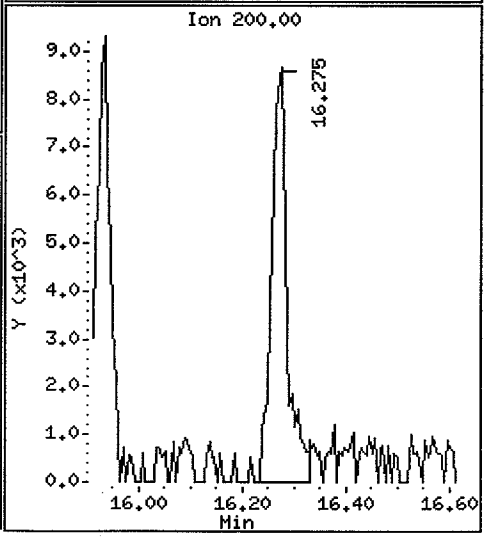












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

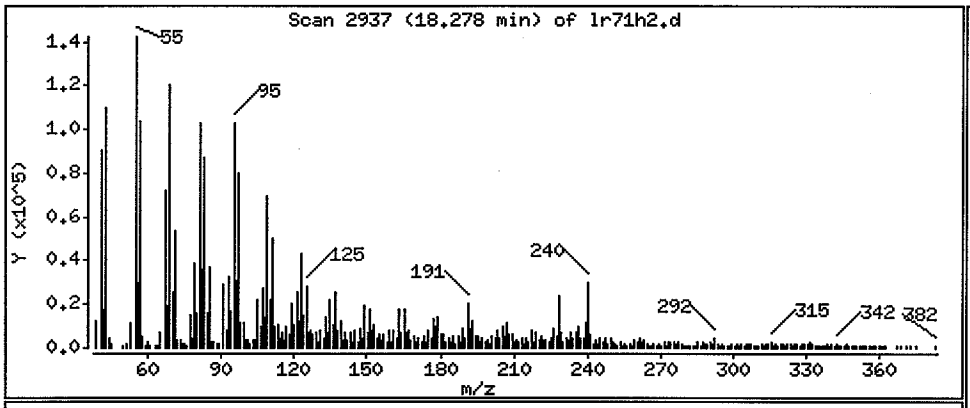
Operator: VTS

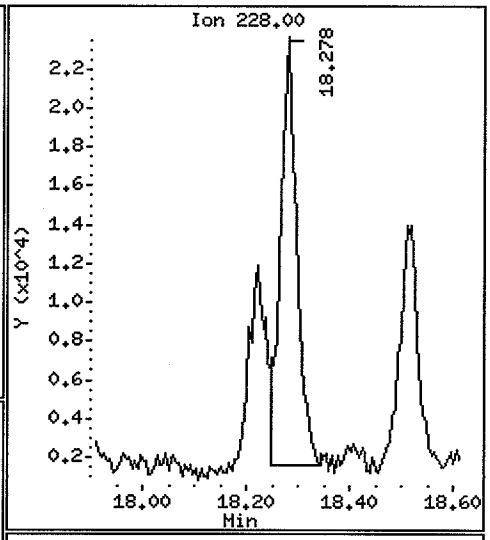
Column phase: ZB-5

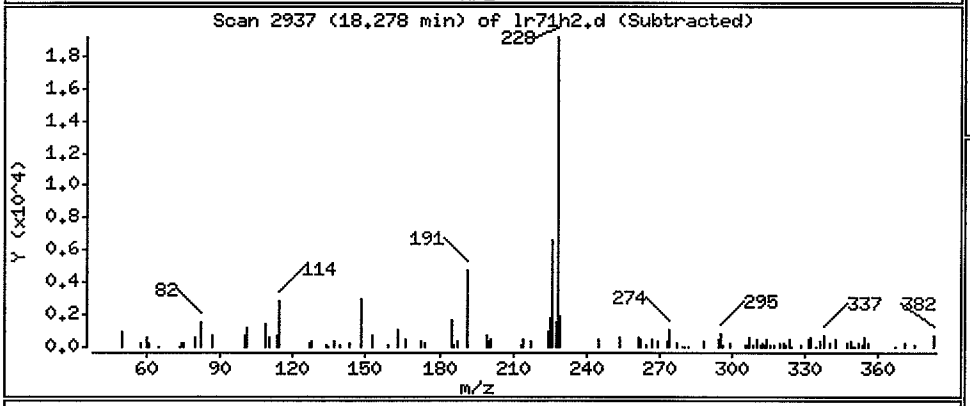
Column diameter: 0.32

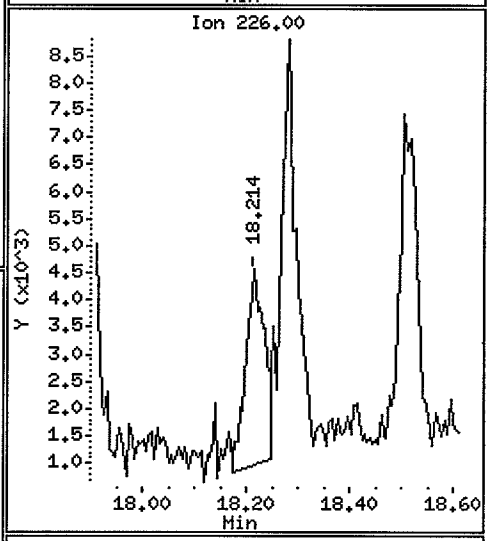
71 Chrysene

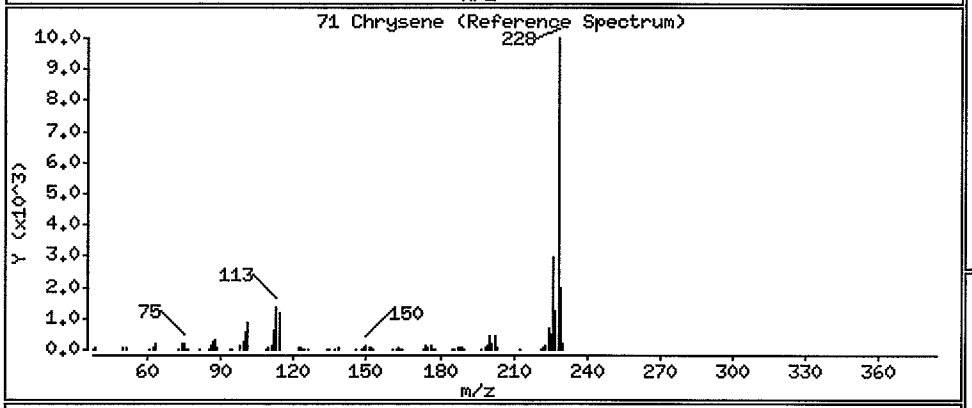
Concentration: 25.75 ug/Kg

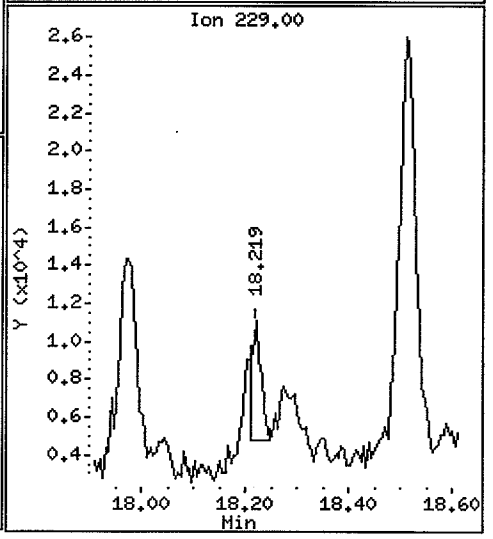


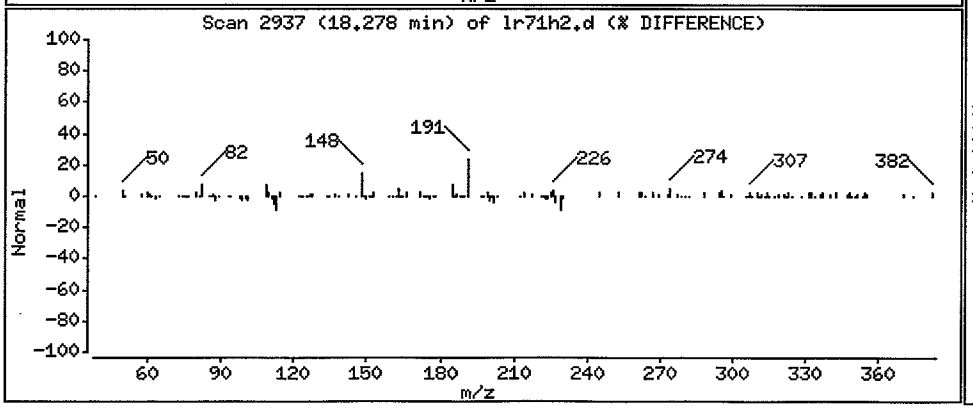












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

Operator: VTS

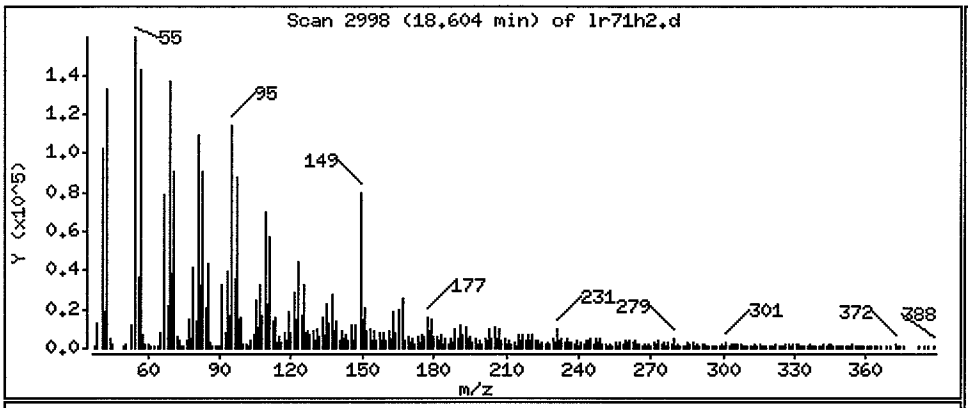
Column phase: ZB-5

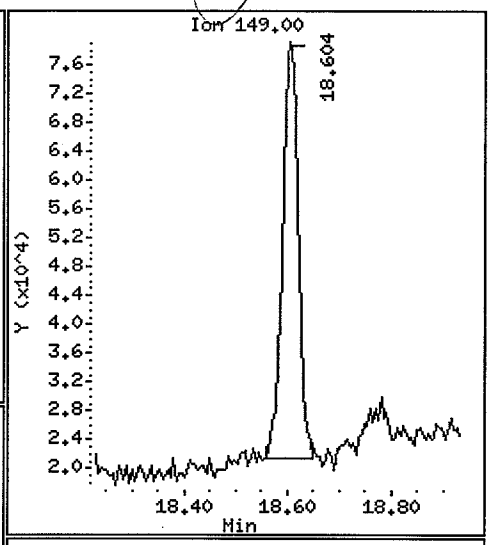
Column diameter: 0.32

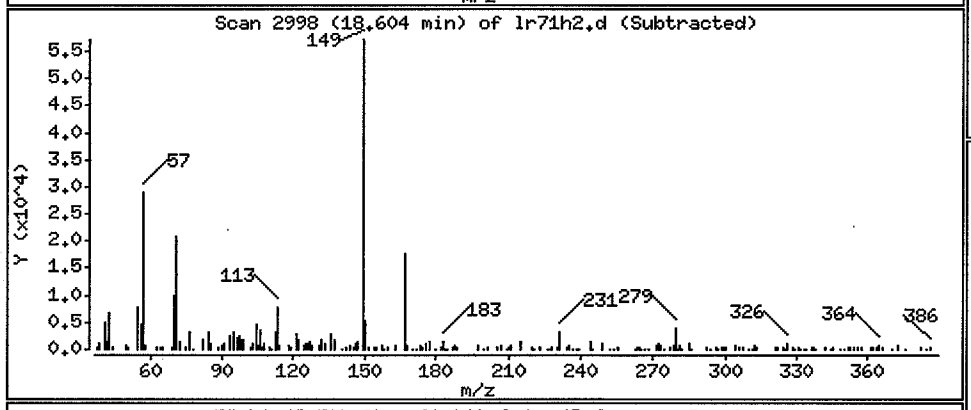
72 bis(2-Ethylhexyl)phthalate

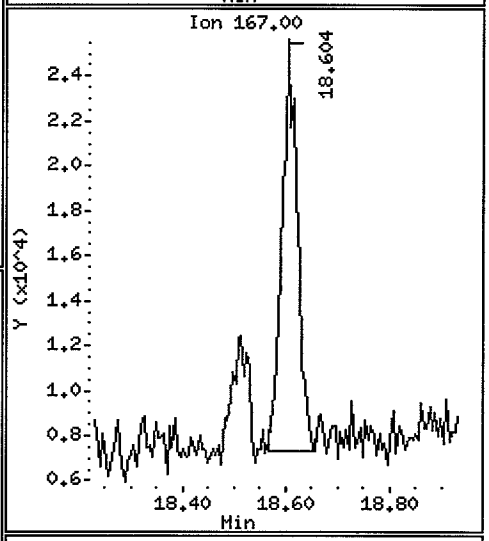
Concentration: 108.0 ug/Kg

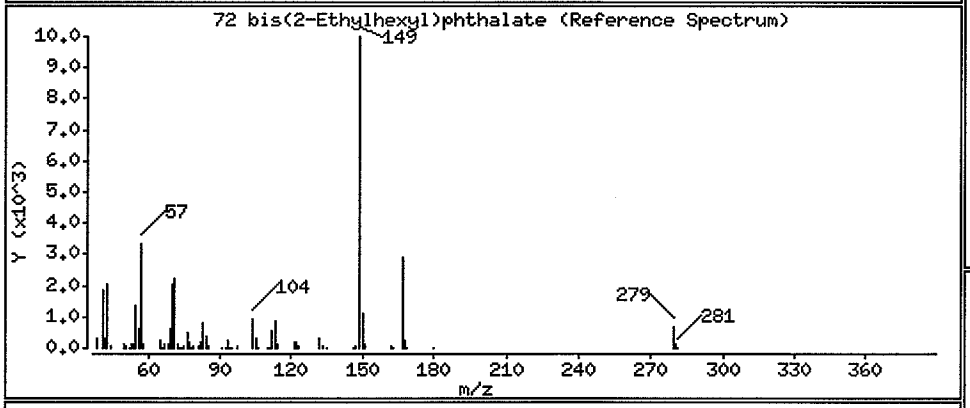
B

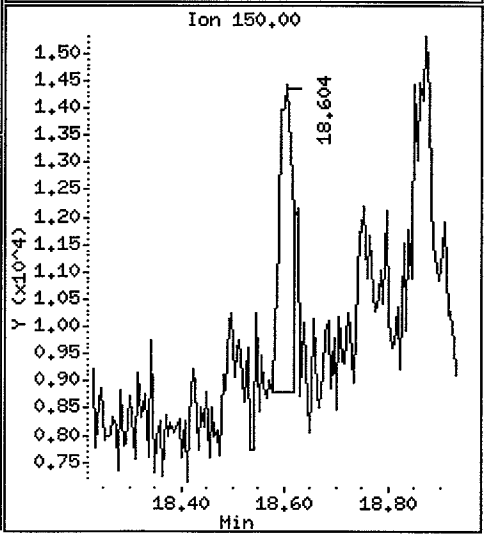


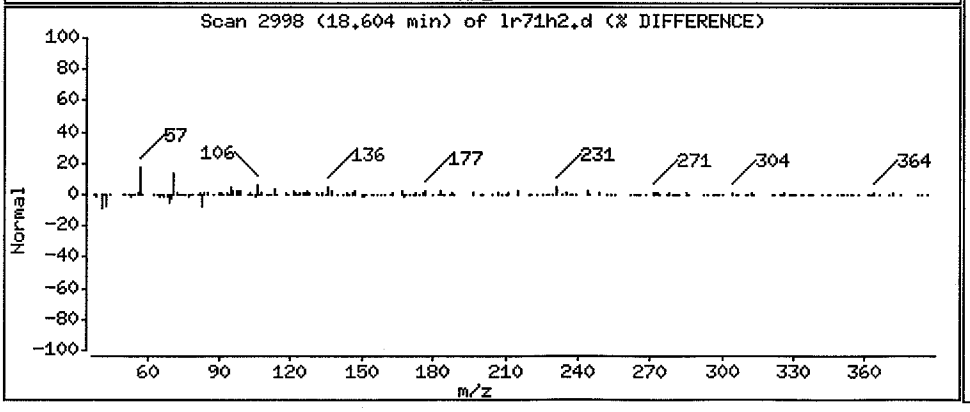












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

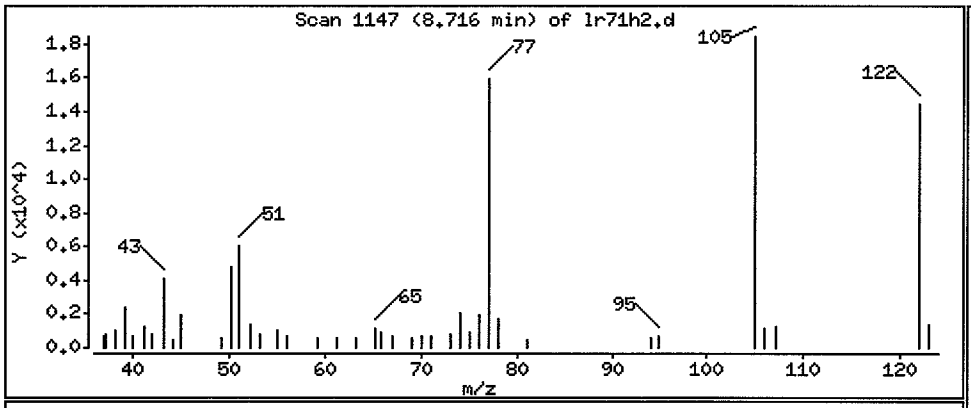
Operator: VTS

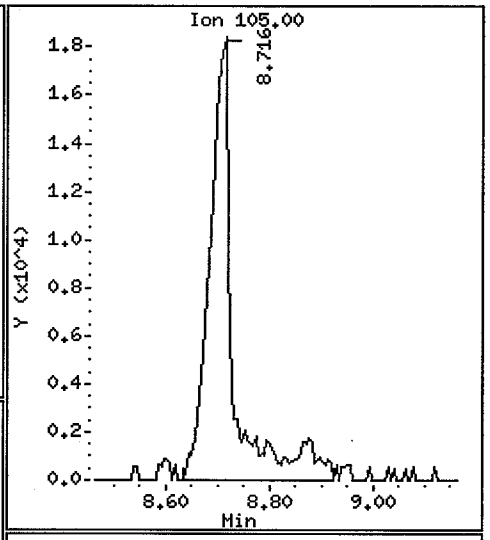
Column phase: ZB-5

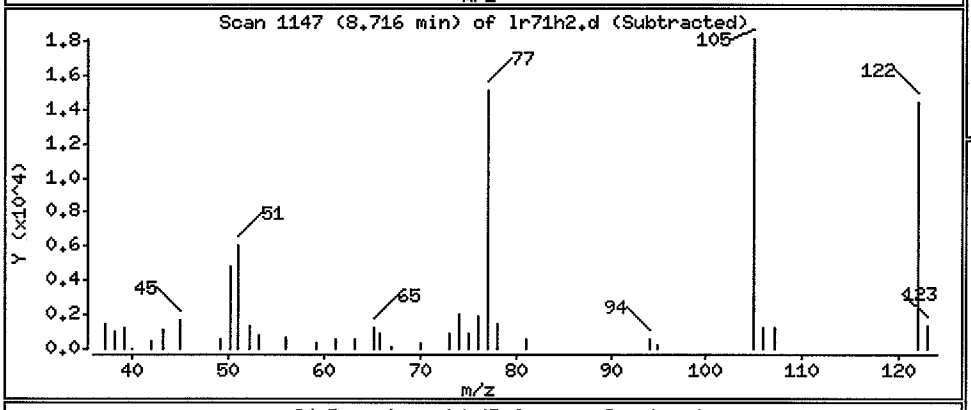
Column diameter: 0.32

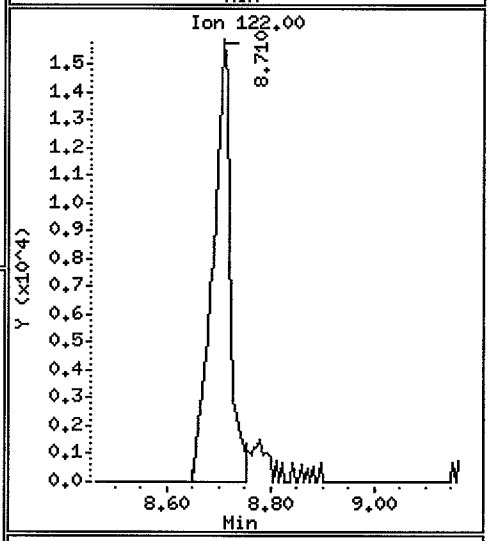
24 Benzoic acid

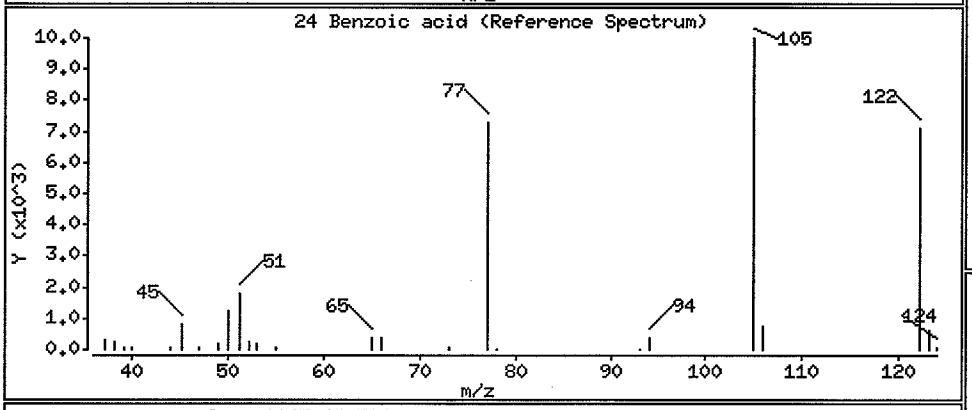
Concentration: 116.5 ug/Kg

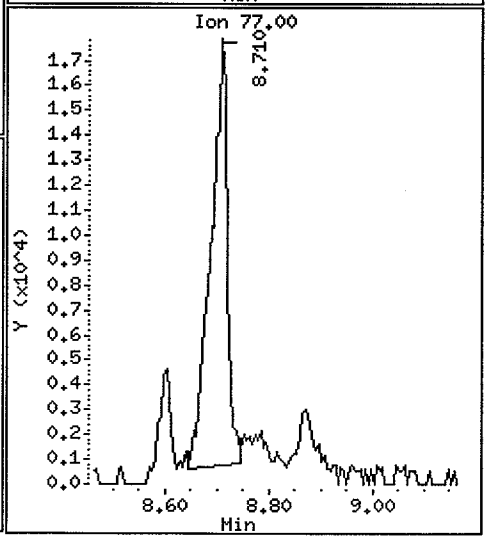


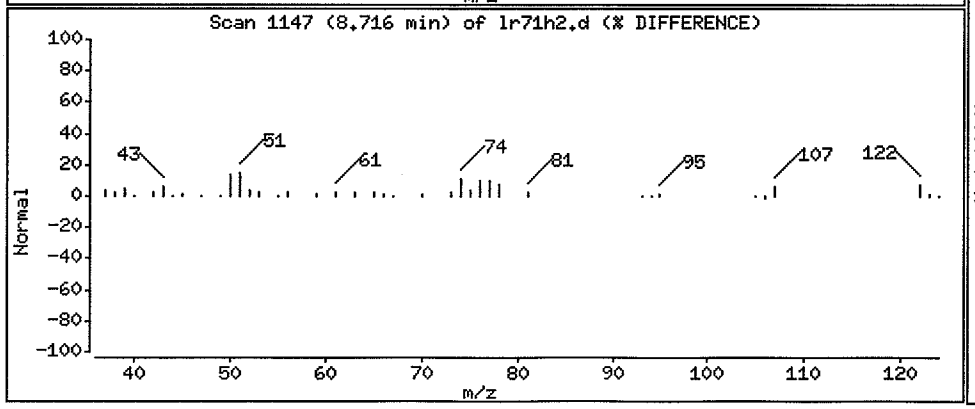












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

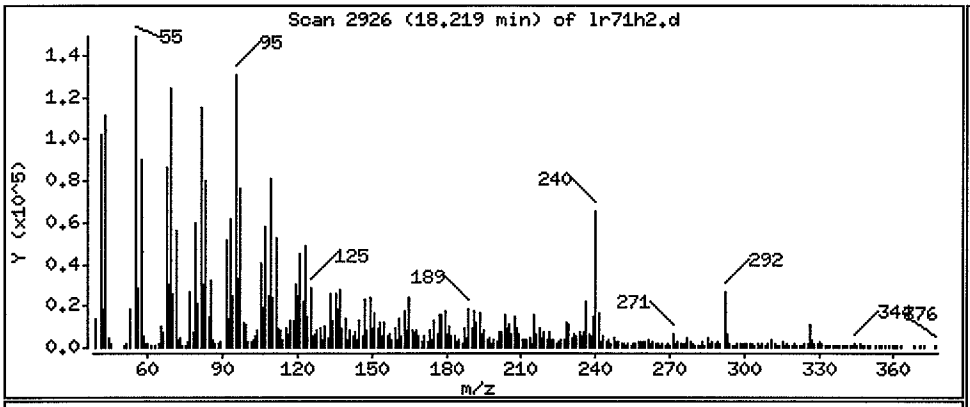
Operator: VTS

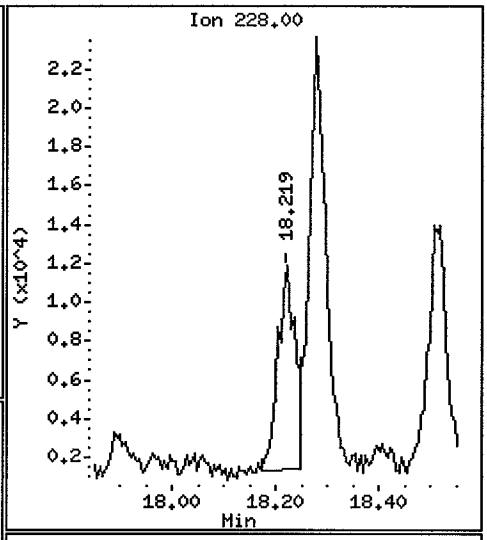
Column phase: ZB-5

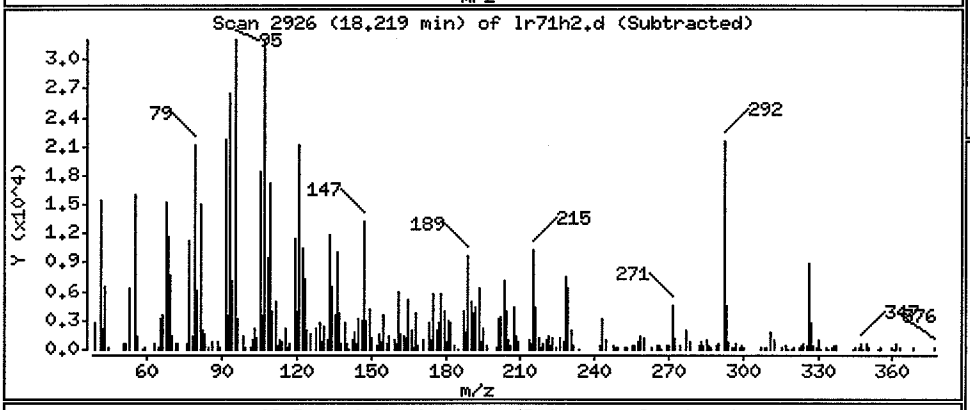
Column diameter: 0.32

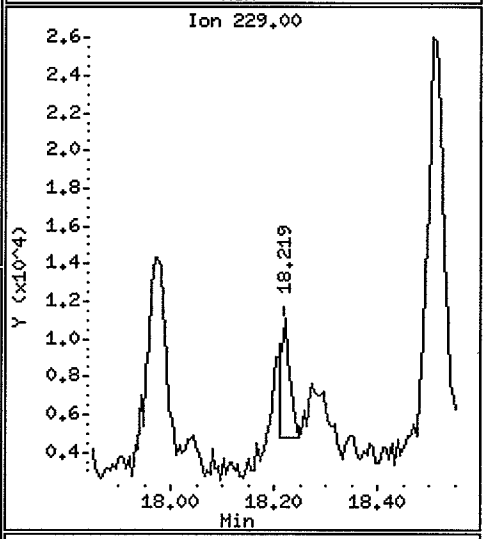
68 Benzo(a)anthracene

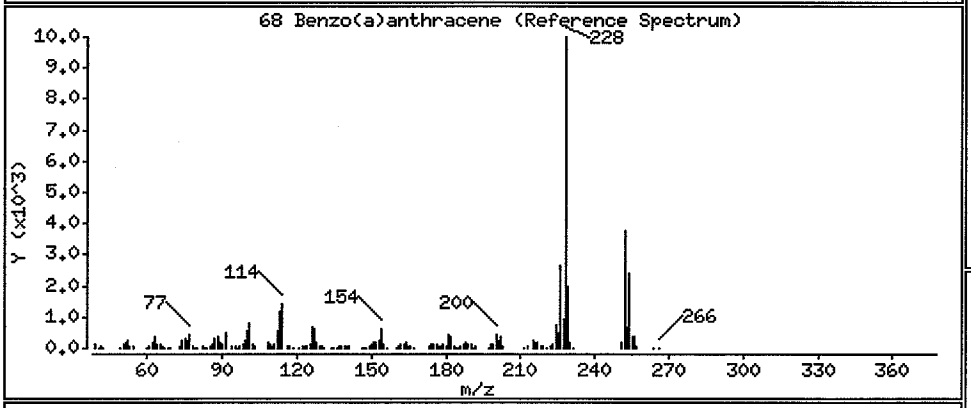
Concentration: 12.44 ug/Kg

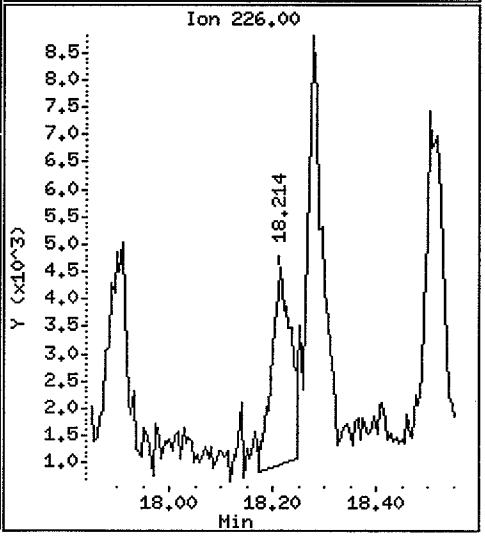


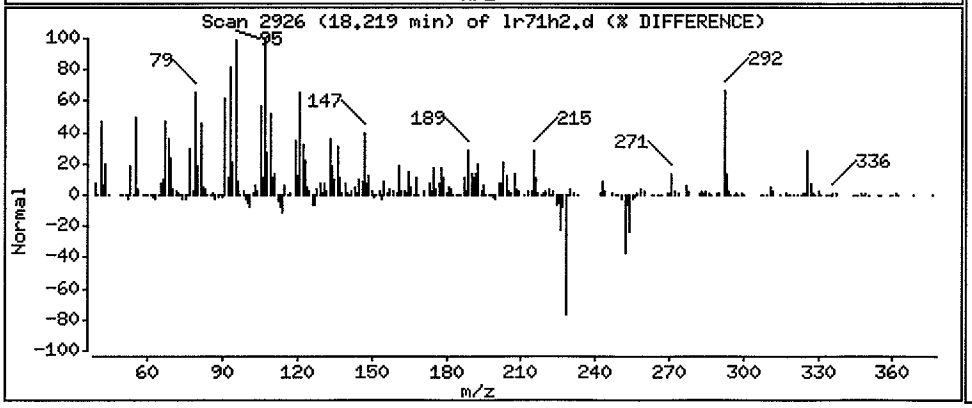












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

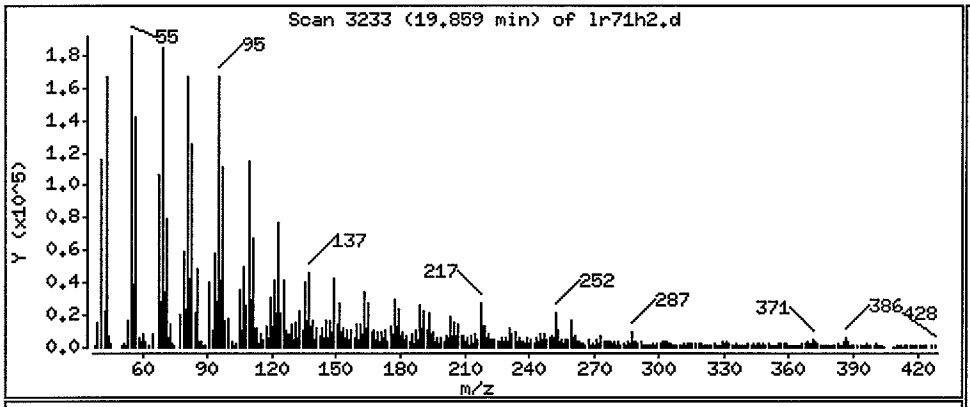
Operator: VTS

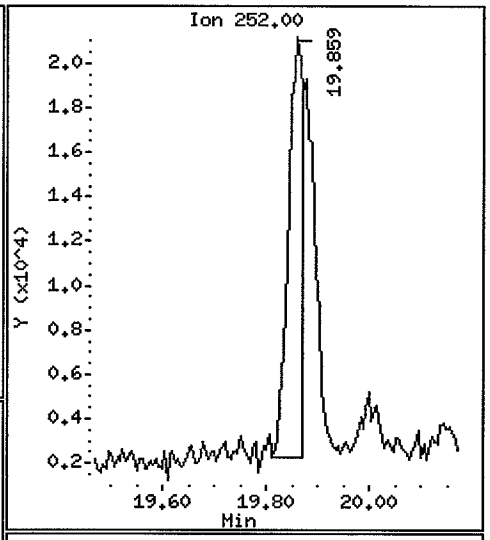
Column phase: ZB-5

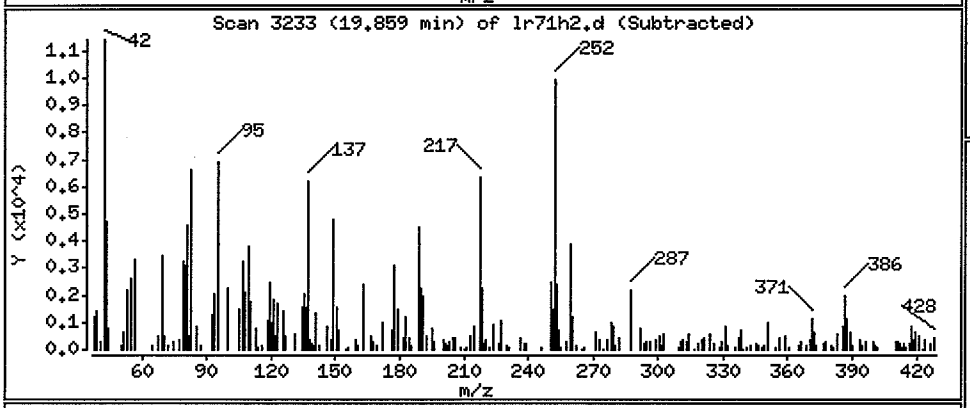
Column diameter: 0.32

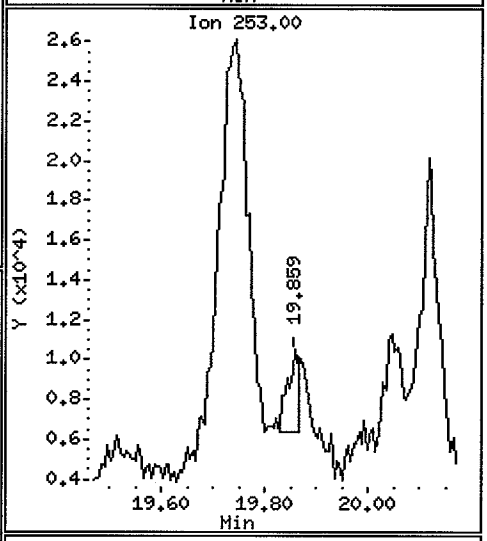
74 Benzo(b)fluoranthene

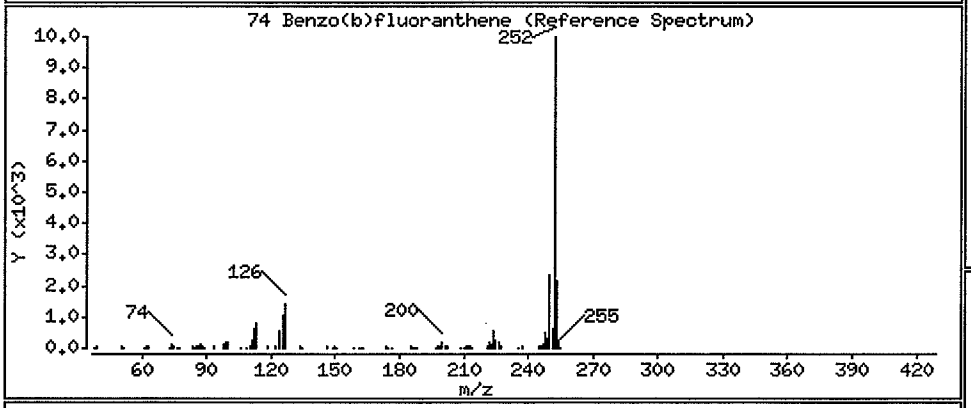
Concentration: 19.63 ug/Kg

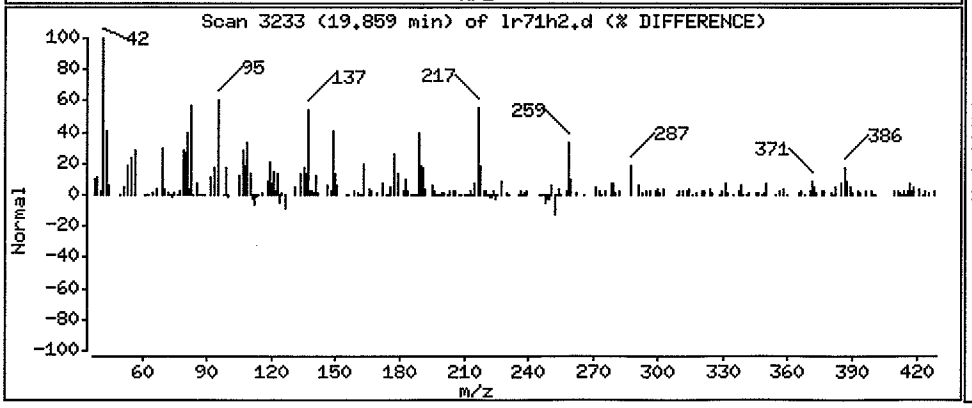


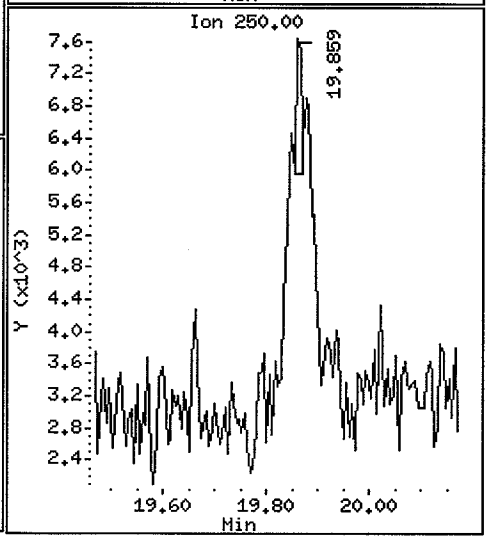












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

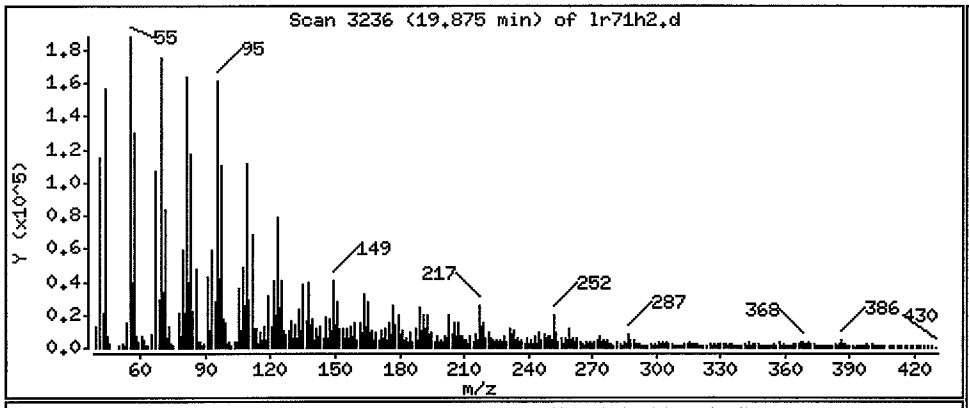
Operator: VTS

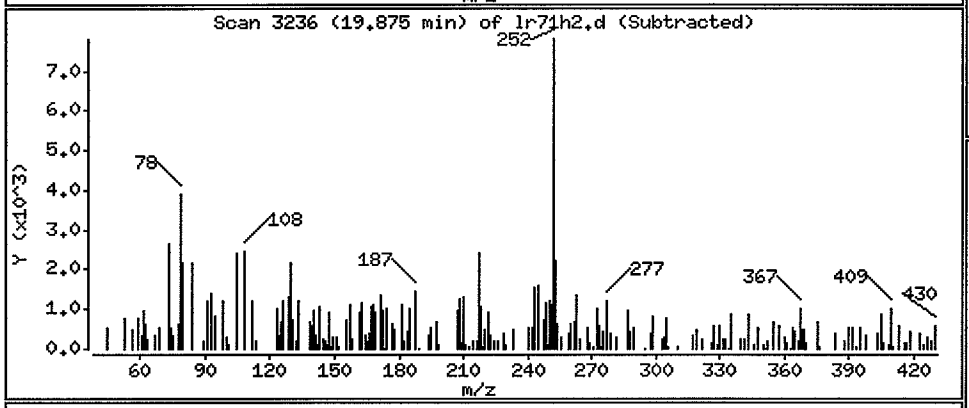
Column phase: ZB-5

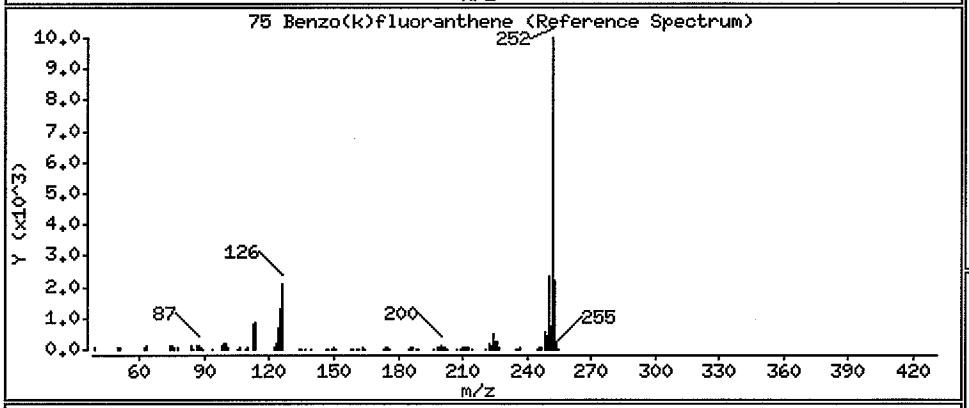
Column diameter: 0.32

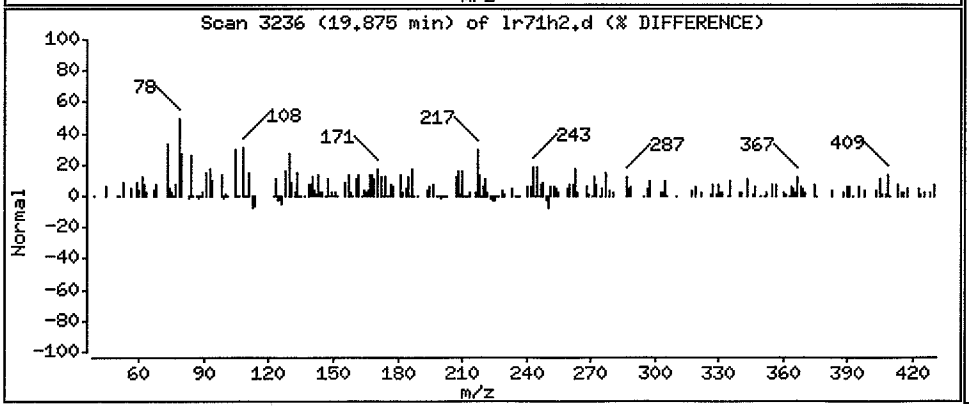
75 Benzo(k)fluoranthene

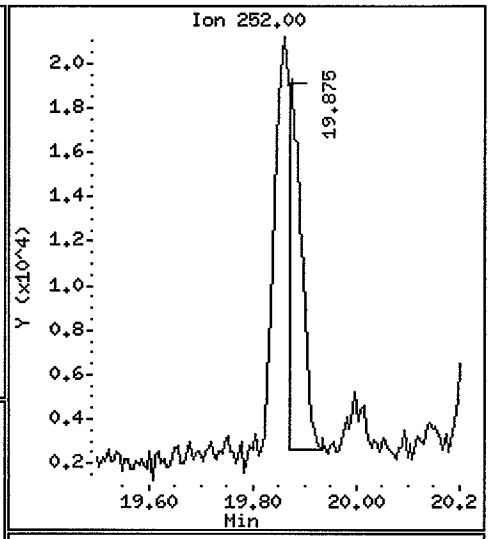
Concentration: 14.50 ug/Kg

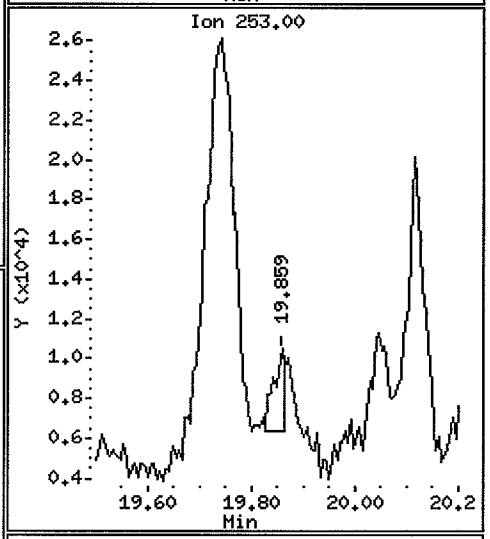


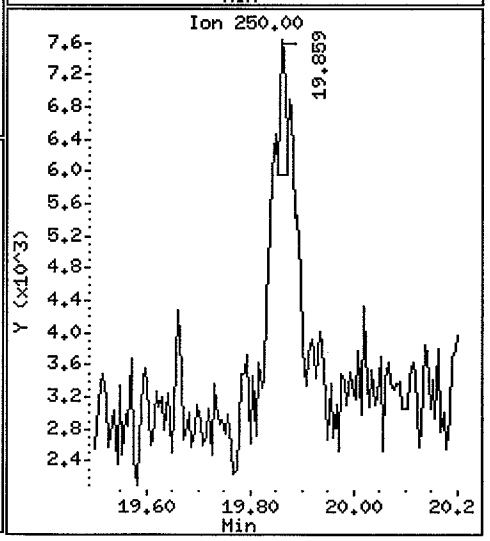












Data File: /chem3/nt4.i/20071101.b/lr71h2.d

Date : 01-NOV-2007 20:50

Client ID:

Instrument: nt4.i

Sample Info: LR71HRE

Volume Injected (uL): 1.0

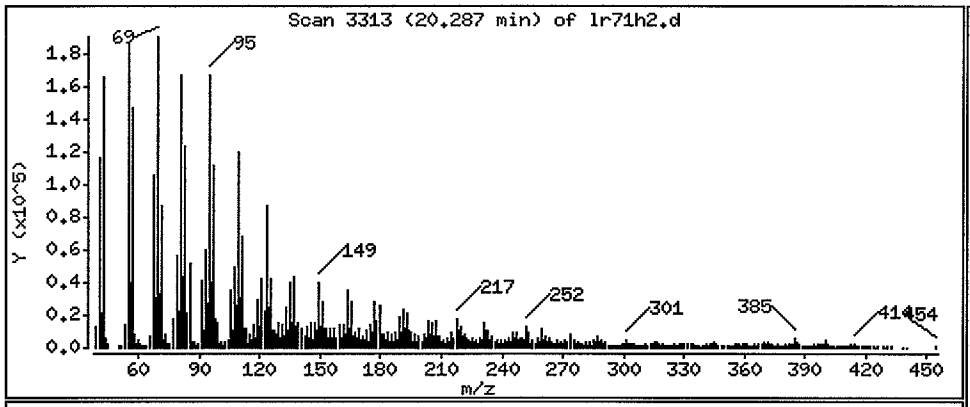
Operator: VTS

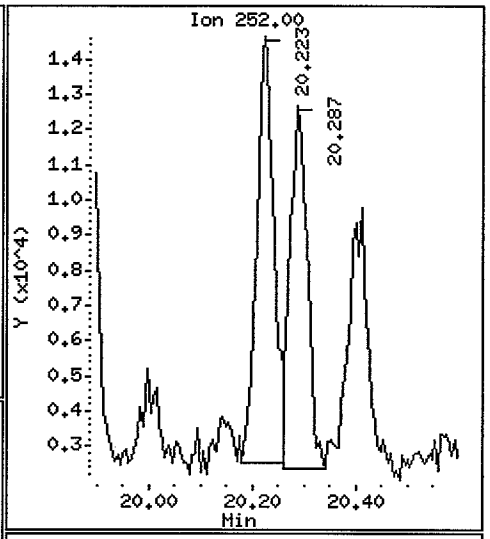
Column phase: ZB-5

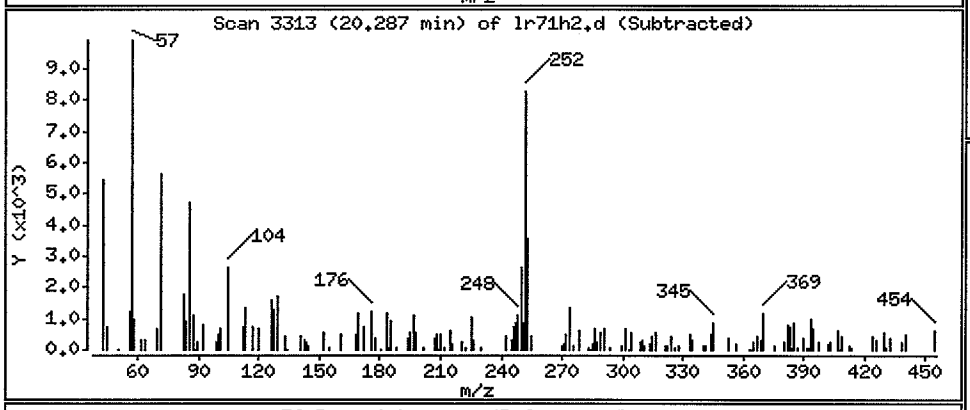
Column diameter: 0.32

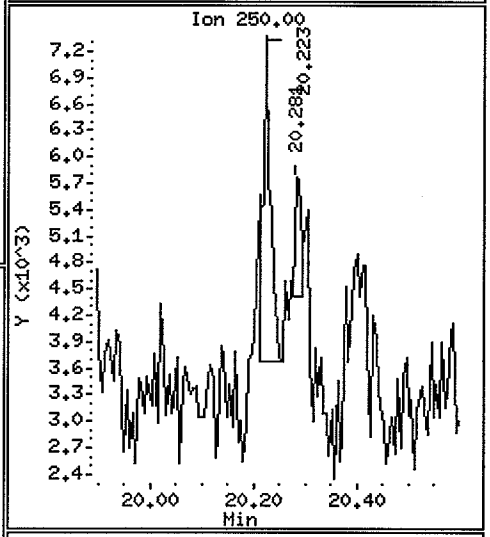
76 Benzo(a)pyrene

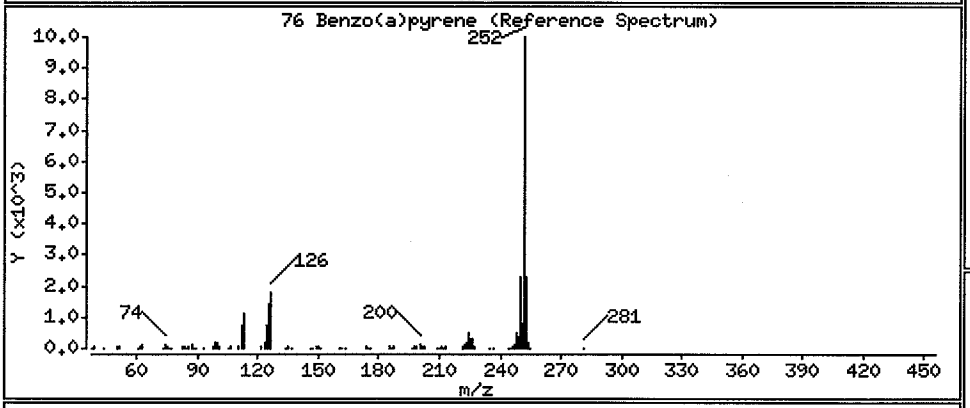
Concentration: 14.47 ug/Kg

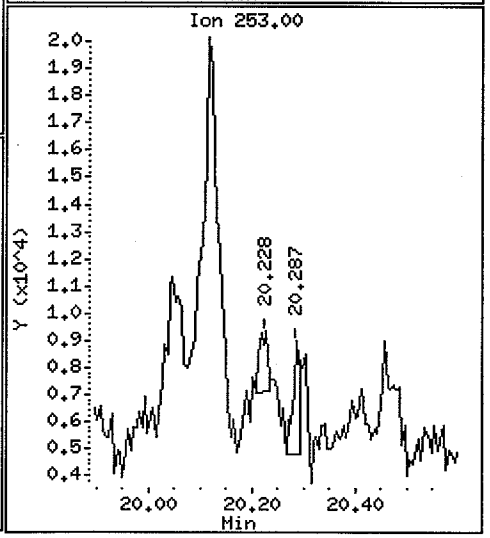


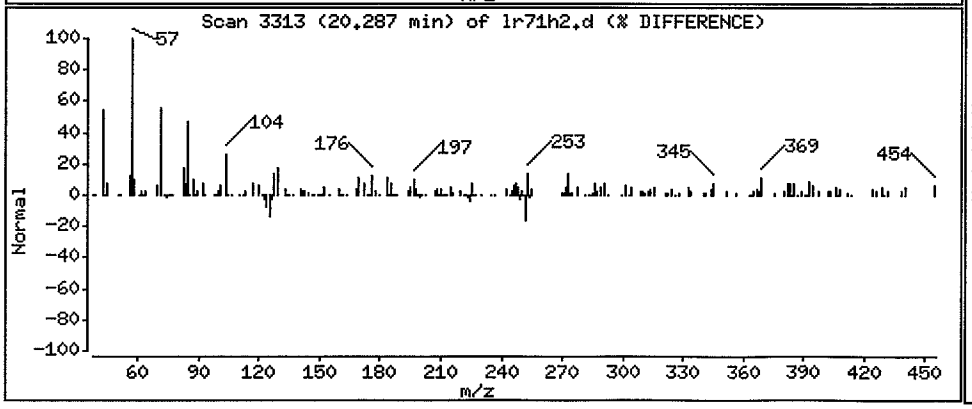












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-05**
Page 1 of 2 **SAMPLE**

Lab Sample ID: LR71I
LIMS ID: 07-20774
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/27/07
Date Received: 09/29/07

Date Extracted: 10/10/07
Date Analyzed: 10/18/07 19:44
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 48.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	**4-Methylphenol**	**20**	**44**
67-72-1	Hexachloroethane	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	10	< 10 UJ
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	10	< 10 UJ
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	**Phenanthrene**	**20**	**39**
120-12-7	Anthracene	20	< 20 U
84-74-2	**Di-n-Butylphthalate**	**20**	**150 M**
206-44-0	**Fluoranthene**	**20**	**210**
129-00-0	**Pyrene**	**20**	**84**
85-68-7	**Butylbenzylphthalate**	**20**	**27 M**
56-55-3	**Benzo(a)anthracene**	**20**	**24**
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**30**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**28**
207-08-9	**Benzo(k)fluoranthene**	**20**	**24**
50-32-8	**Benzo(a)pyrene**	**20**	**25**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-05**
Page 2 of 2 **SAMPLE**

Lab Sample ID: LR71I QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20774 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 10/18/07 19:44

CAS Number	Analyte	RL	Result
90-12-0	1-Methylnaphthalene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	50.4%	2-Fluorobiphenyl	48.8%
d14-p-Terphenyl	68.4%	d4-1,2-Dichlorobenzene	45.2%
d5-Phenol	52.3%	2-Fluorophenol	62.9%
2,4,6-Tribromophenol	63.2%	d4-2-Chlorophenol	53.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20071018.b/lr71i.d
Lab Smp Id: LR71I Client Smp ID: AN-SS-05
Inj Date : 18-OCT-2007 19:44
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LR71I
Misc Info : 07-20774
Comment : 1ul Injection
Method : /chem1/nt6.i/20071018.b/SW846.m
Meth Date : 25-Oct-2007 15:32 jeff Quant Type: ISTD
Cal Date : 01-OCT-2007 13:12 Cal File: 0051001.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJT 10/25/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	97.10000	Weight of sample extracted (g)
M	48.30000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1	2-Fluorophenol	112	5.981	5.917	(0.756)	342607	23.5579	469.3
$ 2	Phenol-d5	99	7.504	7.488	(0.948)	364972	19.6453	391.3
3	Phenol	94	7.520	7.504	(0.950)	12188	0.52936 LDL	10.54
$ 5	2-Chlorophenol-d4	132	7.616	7.600	(0.962)	249690	20.1794	402.0
4	Bis(2-Chloroethyl)ether	93	7.846	7.579	(0.991)	14547	0.93492	18.62 RT
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	7.915	7.904	(1.000)	197352	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	8.214	8.204	(1.038)	105072	11.3239	225.6
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	8.685	8.674	(1.097)	30830	2.22454	44.31
$	18 Nitrobenzene-d5	82	8.850	8.845	(0.888)	255625	12.5878	250.8
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.972	9.961	(1.000)	632048	20.0000	
	28 Naphthalene	128	10.004	9.999	(1.003)	25372	0.65123	12.97
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.783	11.777	(0.917)	374260	12.2077	243.2
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.851	12.841	(1.000)	393756	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	14.150	14.139	(1.101)	90685	23.7379	472.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.239	15.223	(1.000)	712380	20.0000	
	60 Phenanthrene	178	15.271	15.261	(1.002)	88714	1.94094	38.66
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	16.393	16.350	(1.076)	359167	7.56653	150.7
	64 Fluoranthene	202	17.269	17.205	(1.133)	551423	10.5497	210.2
	65 Pyrene	202	17.601	17.563	(0.899)	272886	4.20547	83.77
$	66 Terphenyl-d14	244	17.921	17.884	(0.915)	692521	17.0508	339.7
	67 Butylbenzylphthalate	149	18.819	18.776	(0.961)	39178	1.37313	27.35(M)
	68 Benzo(a)anthracene	228	19.561	19.529	(0.999)	83368	1.17771	23.46
*	69 Chrysene-d12	240	19.588	19.556	(1.000)	903473	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	19.625	19.598	(1.002)	95754	1.50524	29.98
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	20.747	20.720	(1.000)	1217237	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	21.223	21.190	(0.976)	57262	1.39311	27.75
	75 Benzo(k)fluoranthene	252	21.239	21.228	(0.976)	53634	1.23350	24.57(M)
	76 Benzo(a)pyrene	252	21.666	21.639	(0.996)	46998	1.24586	24.81
*	77 Perylene-d12	264	21.751	21.719	(1.000)	572397	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lr71i.d
Lab Smp Id: LR71I
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20774

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-05
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	212076	106038	424152	197352	-6.94
27 Naphthalene-d8	656578	328289	1313156	632048	-3.74
42 Acenaphthene-d10	353705	176852	707410	393756	11.32
59 Phenanthrene-d10	526440	263220	1052880	712380	35.32
69 Chrysene-d12	581923	290962	1163846	903473	55.26
134 Di-n-octylphthala	979097	489548	1958194	1217237	24.32
77 Perylene-d12	686531	343266	1373062	572397	-16.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.92	0.14
27 Naphthalene-d8	9.96	9.46	10.46	9.97	0.11
42 Acenaphthene-d10	12.84	12.34	13.34	12.85	0.08
59 Phenanthrene-d10	15.22	14.72	15.72	15.24	0.11
69 Chrysene-d12	19.56	19.06	20.06	19.59	0.16
134 Di-n-octylphthala	20.72	20.22	21.22	20.75	0.13
77 Perylene-d12	21.72	21.22	22.22	21.75	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

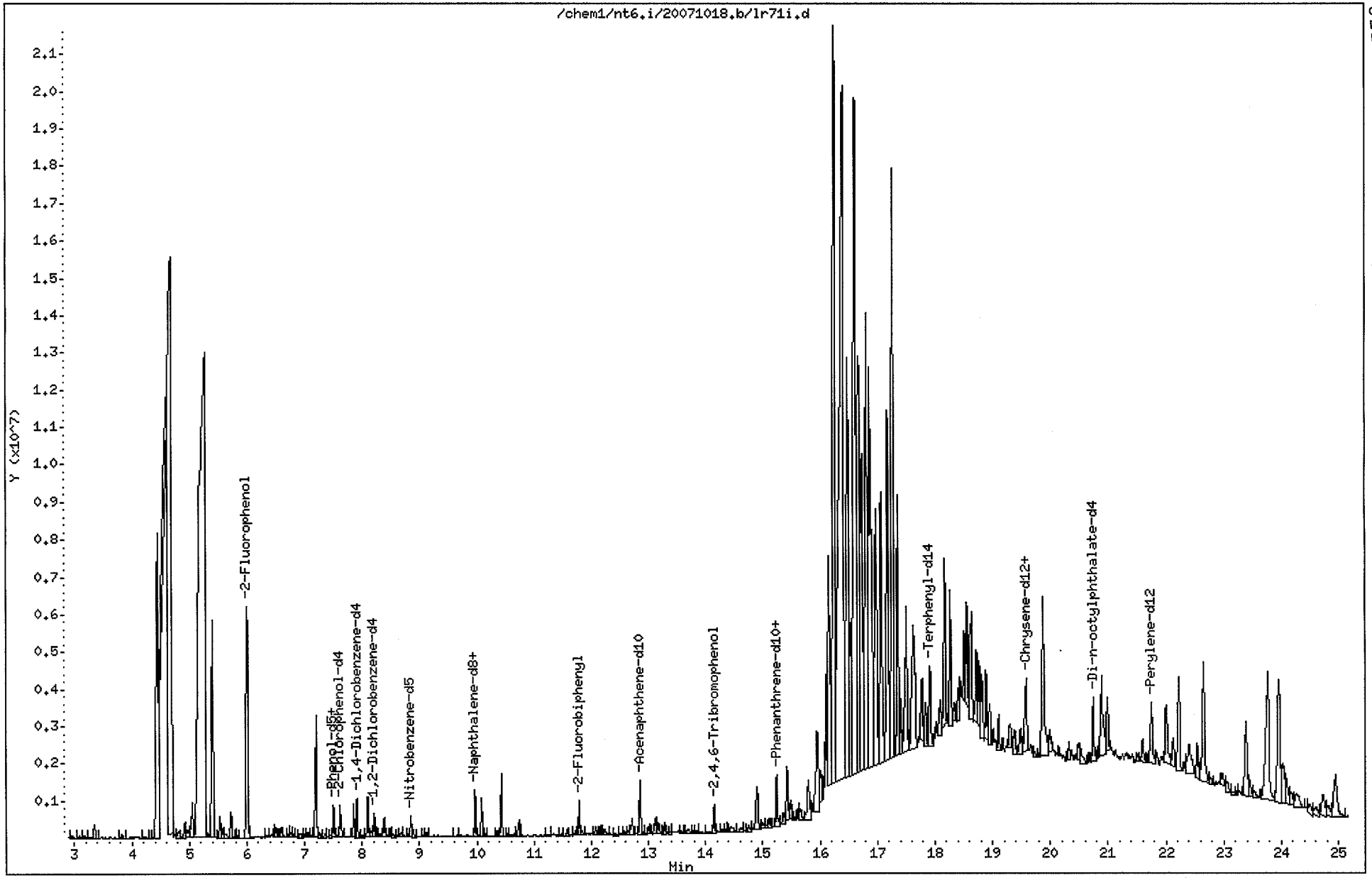
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71I
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20774

Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-05
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	747.0	469.3	62.82	11-84
$ 2 Phenol-d5	747.0	391.3	52.39	25-86
$ 5 2-Chlorophenol-d4	747.0	402.0	53.81	23-91
$ 10 1,2-Dichlorobenzen	498.0	225.6	45.30	24-90
$ 18 Nitrobenzene-d5	498.0	250.8	50.35	26-88
$ 36 2-Fluorobiphenyl	498.0	243.2	48.83	34-91
$ 55 2,4,6-Tribromophen	747.0	472.9	63.30	25-107
$ 66 Terphenyl-d14	498.0	339.7	68.20	22-100

Data File: /chem1/nt6.i/20071018.b/lr71i.d
Date : 18-OCT-2007 19:44
Client ID: AN-SS-05
Sample Info: LR71I
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

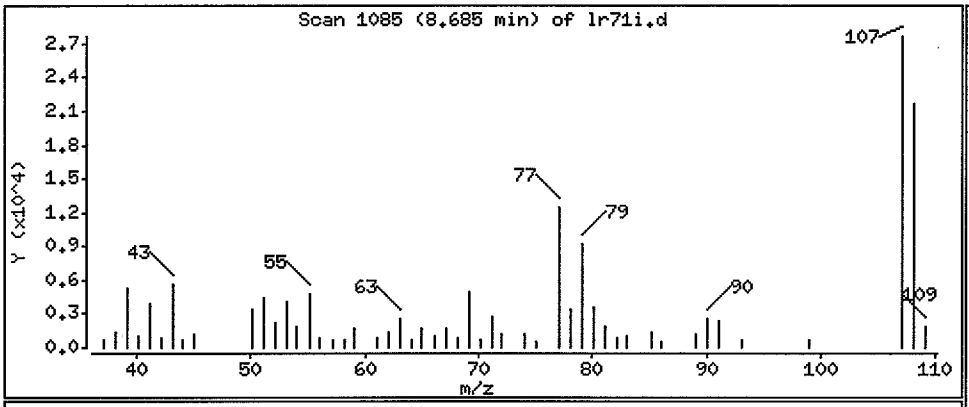
Client ID: AN-SS-05 Instrument: nt6.i

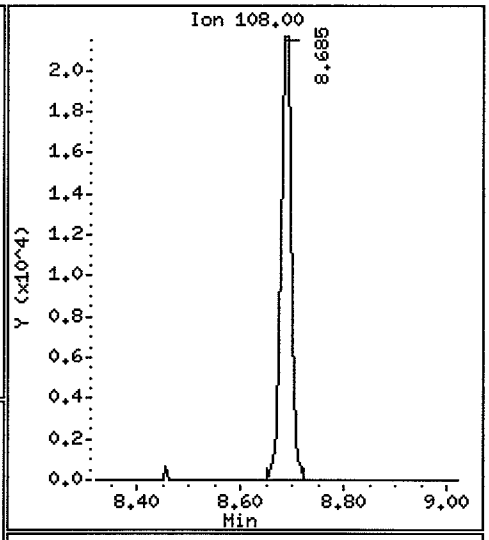
Sample Info: LR71I

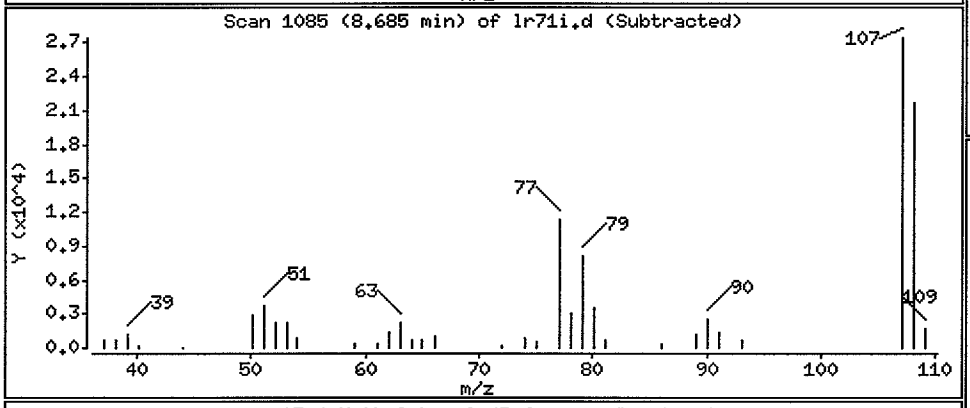
Volume Injected (uL): 1.0 Operator: LJR/VTS

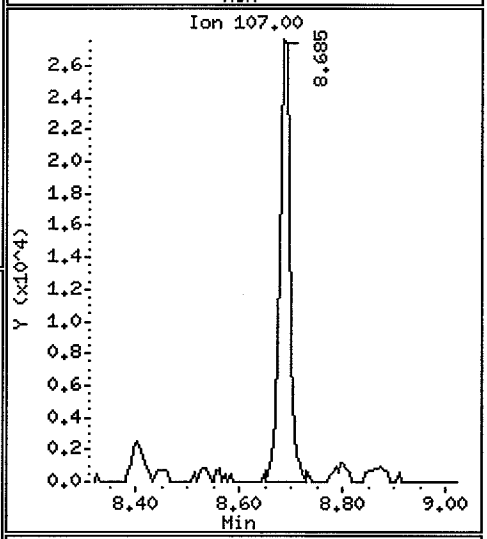
Column phase: ZB-5 Column diameter: 0.32

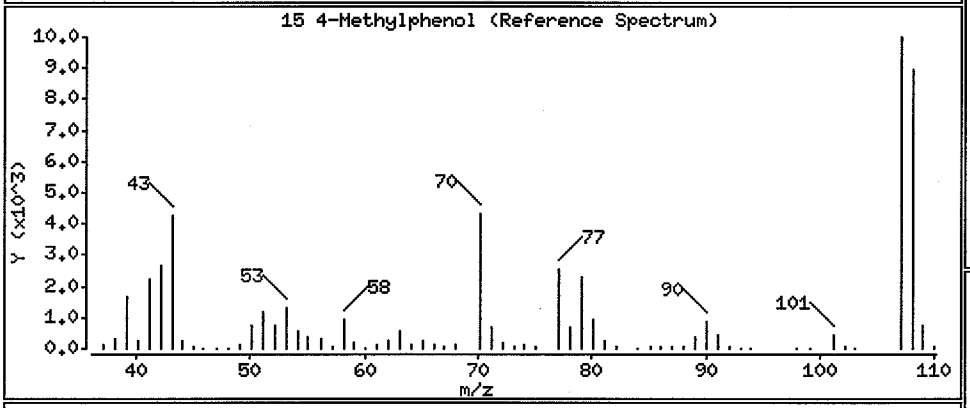
15 4-Methylphenol Concentration: 44.31 ug/kg

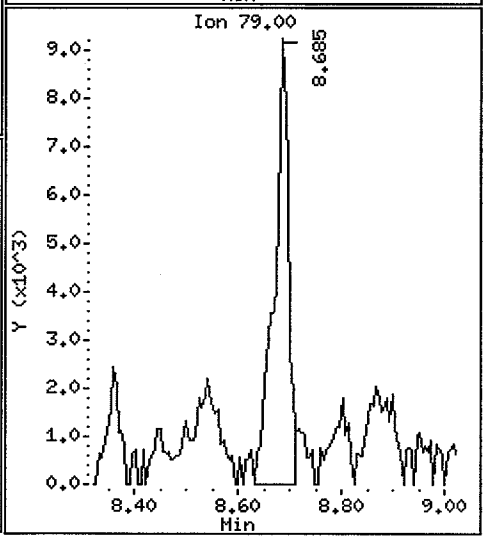


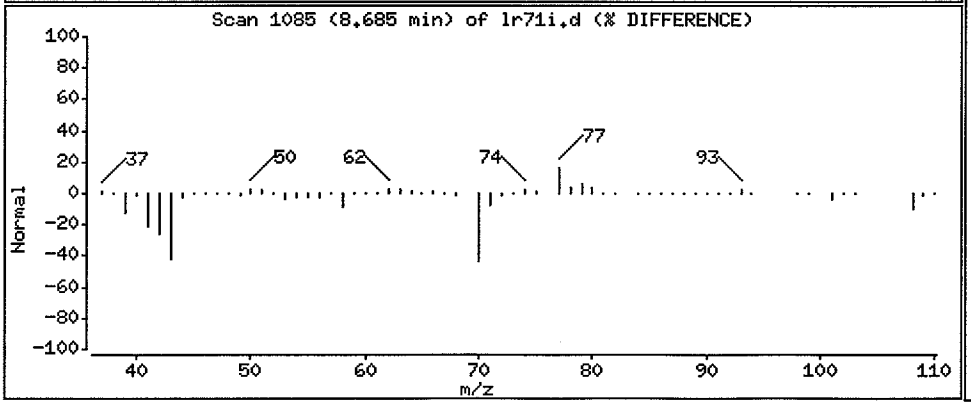












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

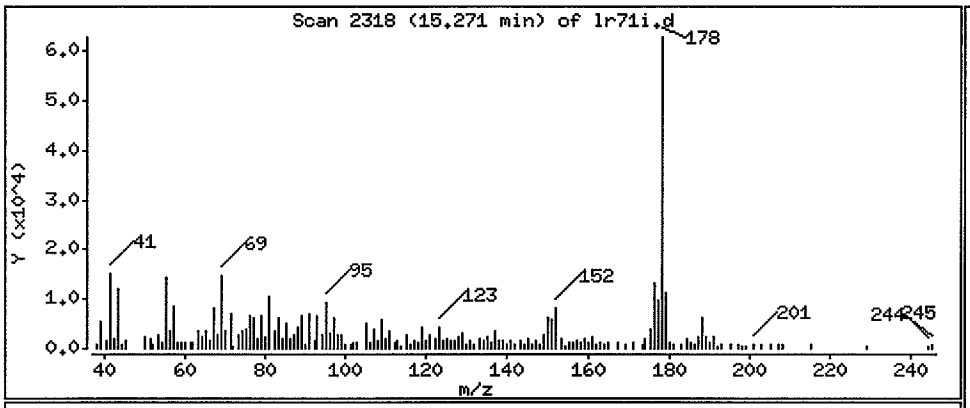
Client ID: AN-SS-05 Instrument: nt6.i

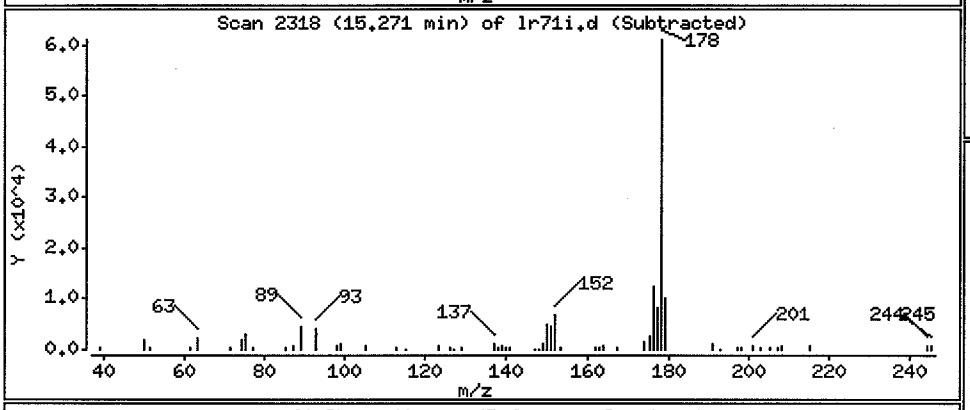
Sample Info: LR71I

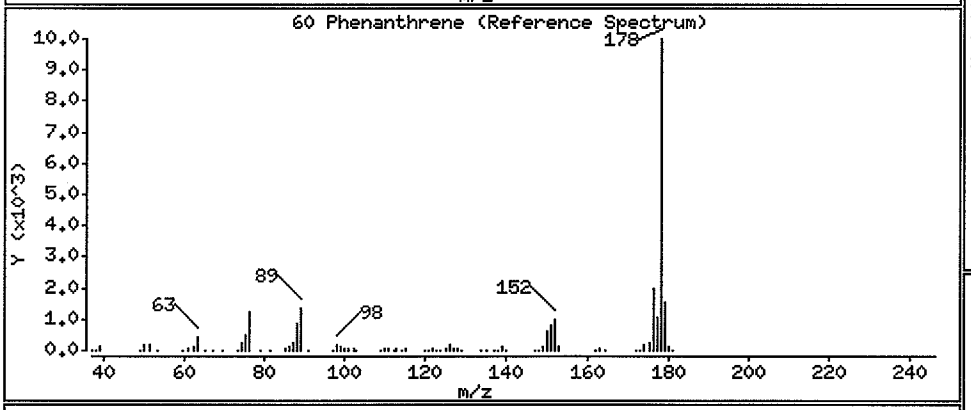
Volume Injected (uL): 1.0 Operator: LJR/VTS

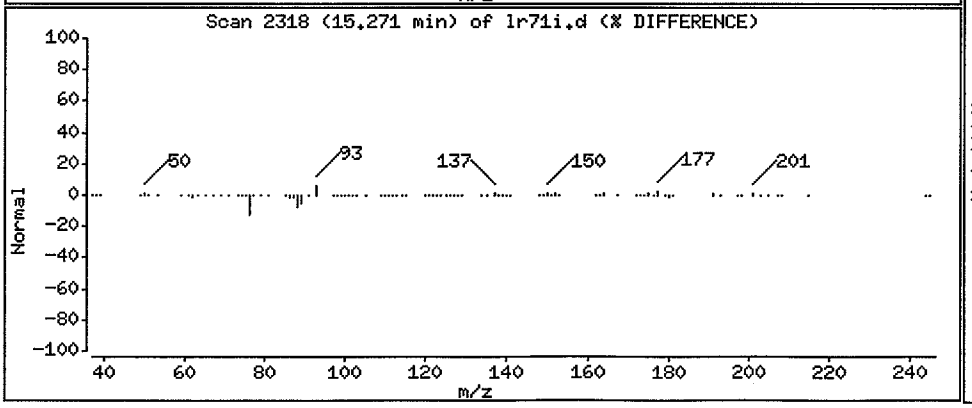
Column phase: ZB-5 Column diameter: 0.32

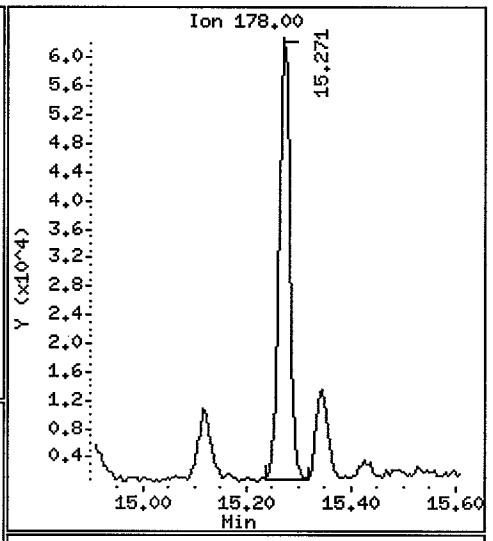
60 Phenanthrene Concentration: 38.66 ug/kg

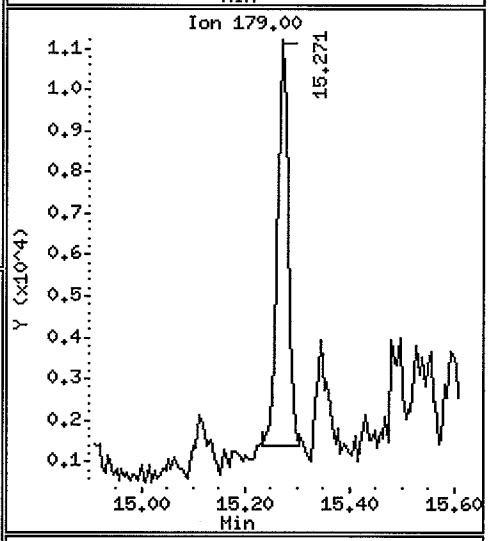


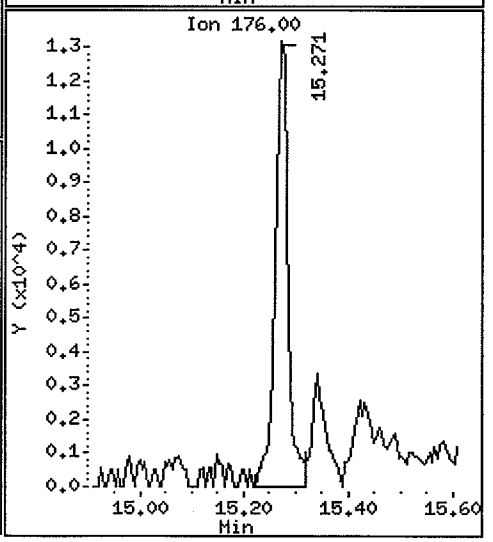












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05

Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0

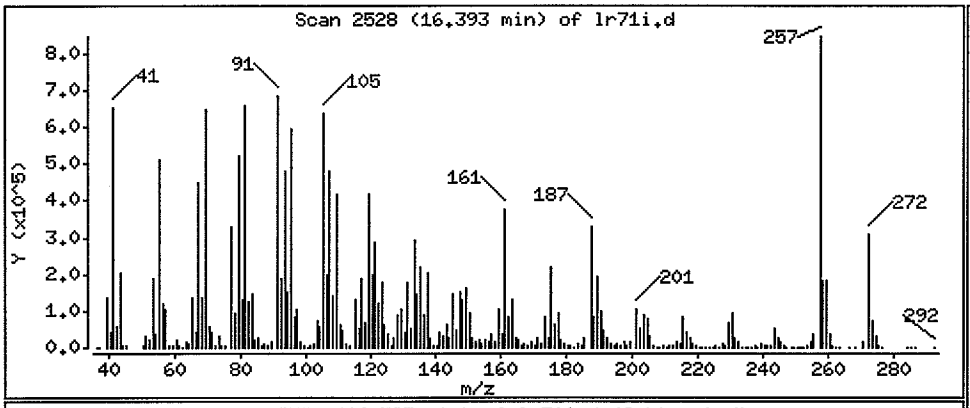
Operator: LJR/VTS

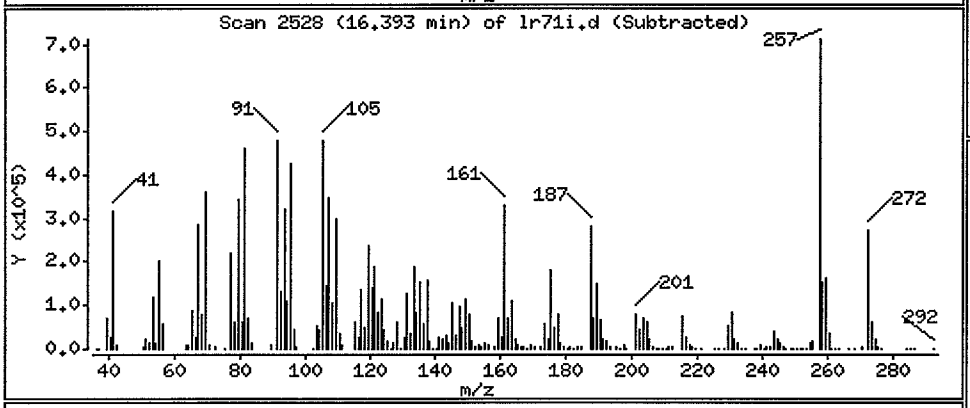
Column phase: ZB-5

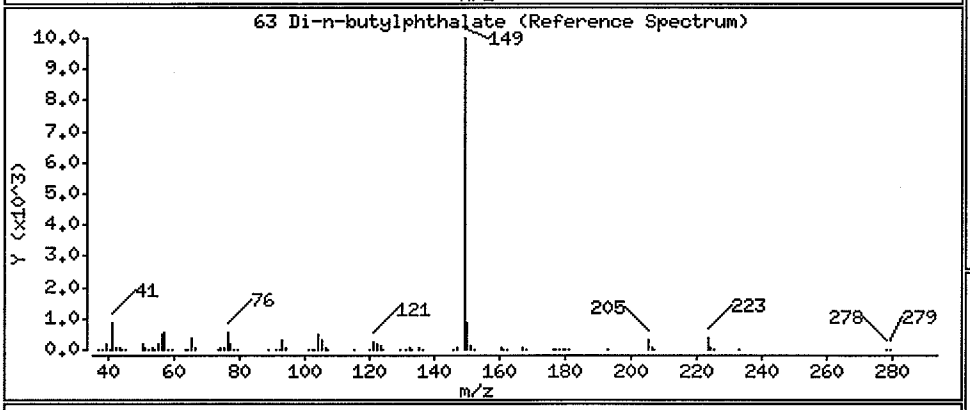
Column diameter: 0.32

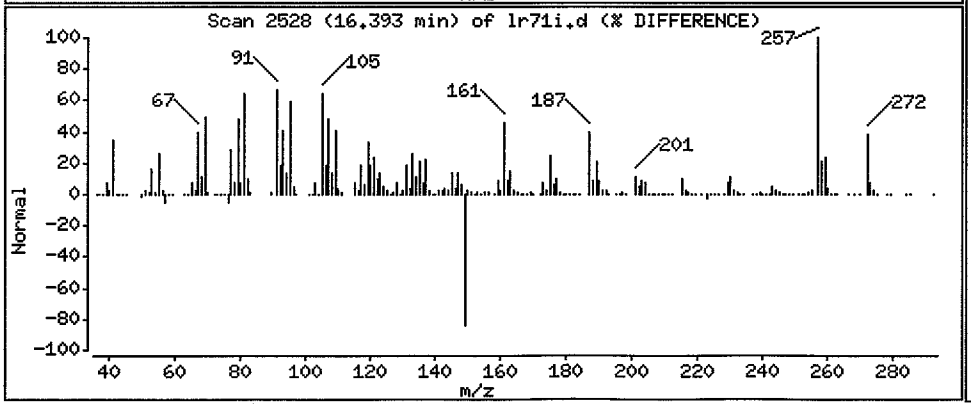
63 Di-n-butylphthalate

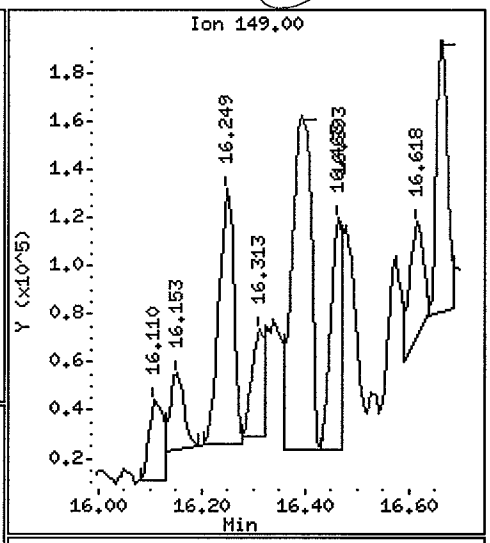
Concentration: 150.7 ug/kg

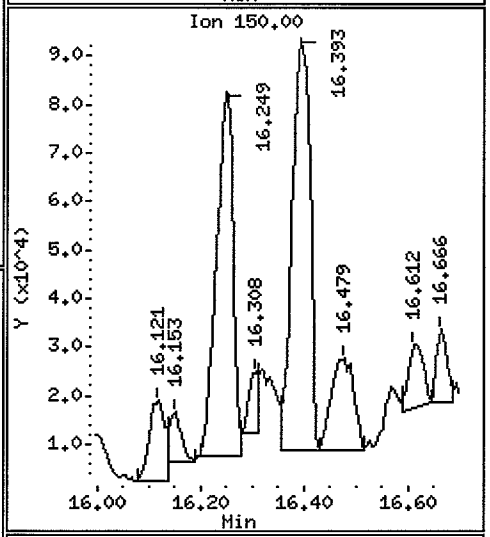


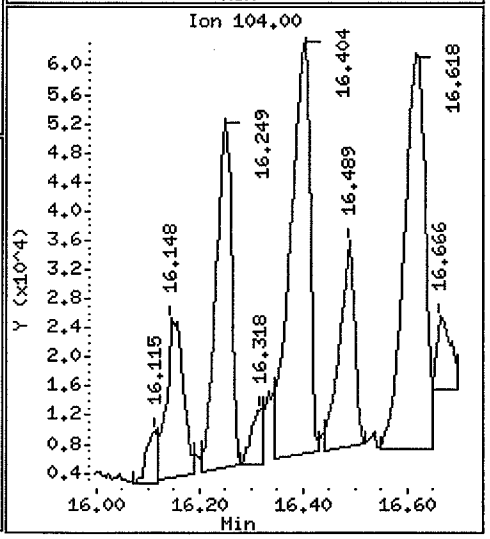












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05

Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0

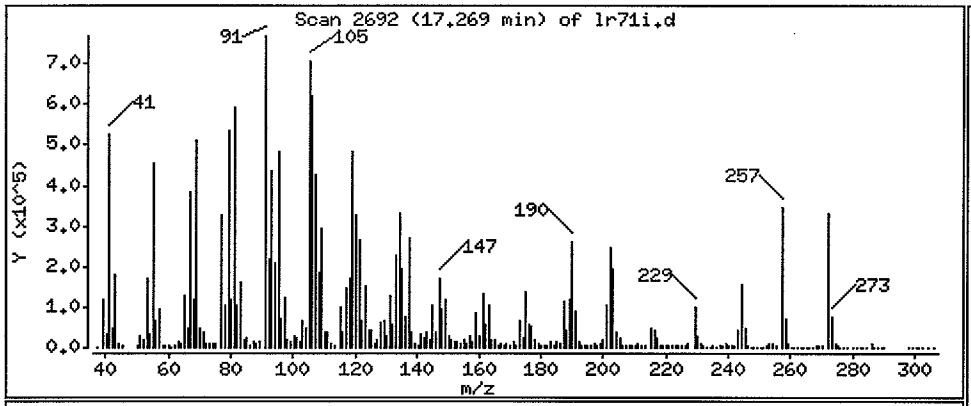
Operator: LJR/VTS

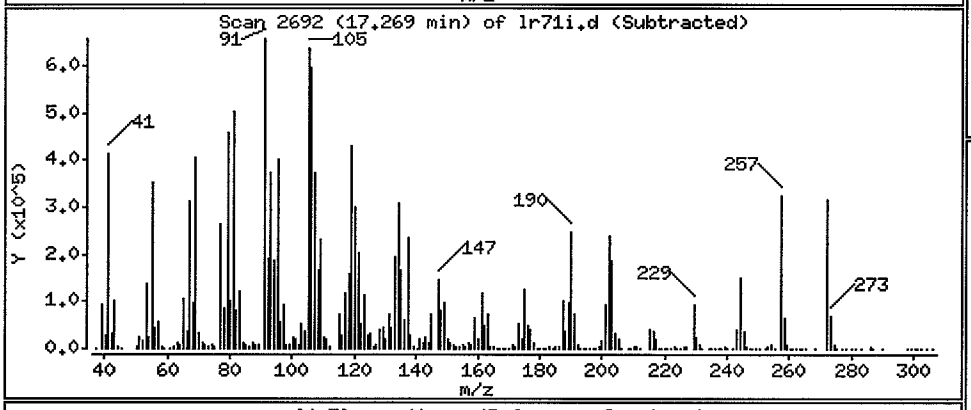
Column phase: ZB-5

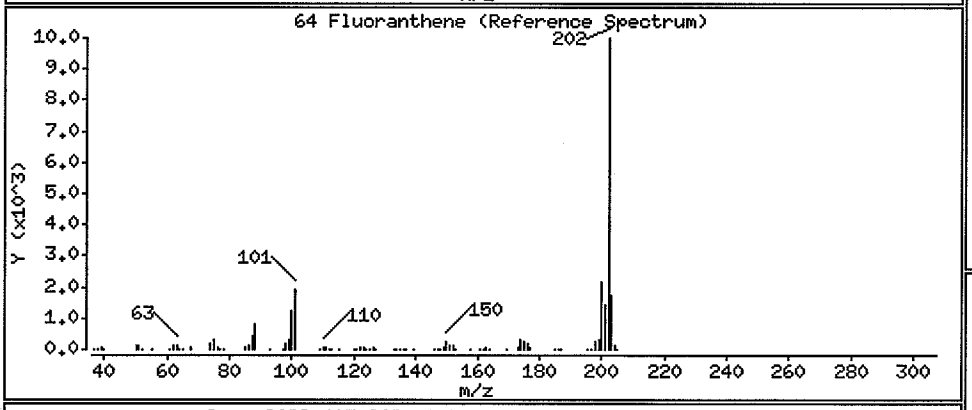
Column diameter: 0.32

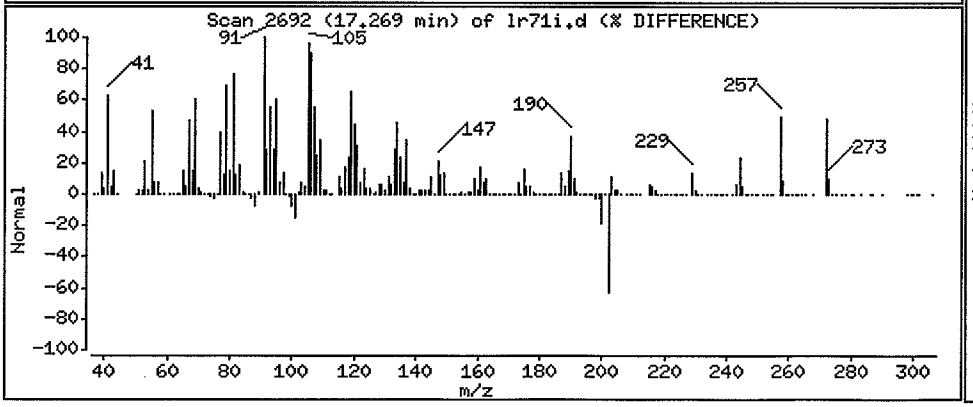
64 Fluoranthene

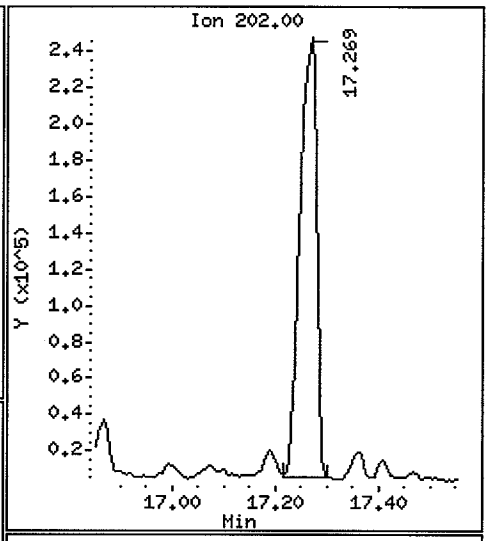
Concentration: 210.2 ug/kg

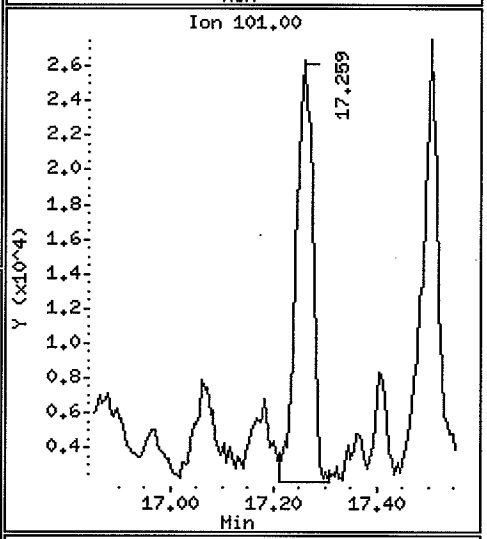


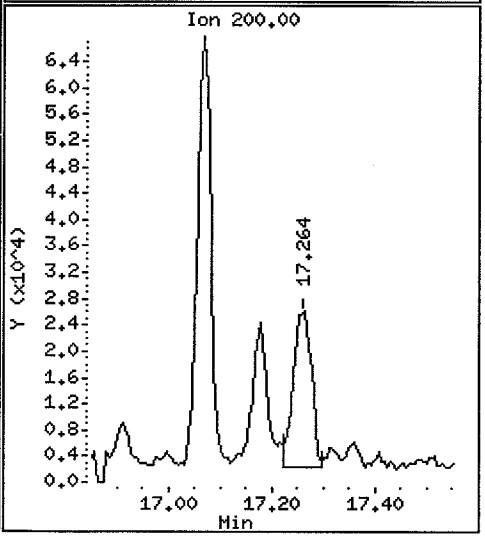












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05

Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0

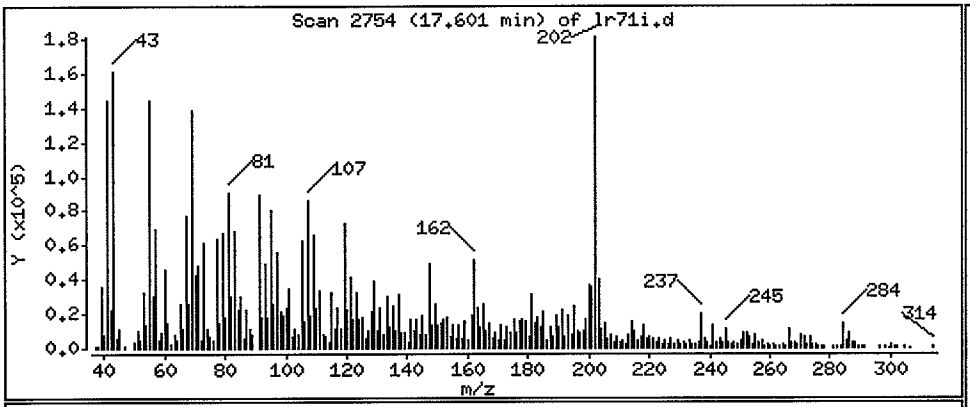
Operator: LJR/VTS

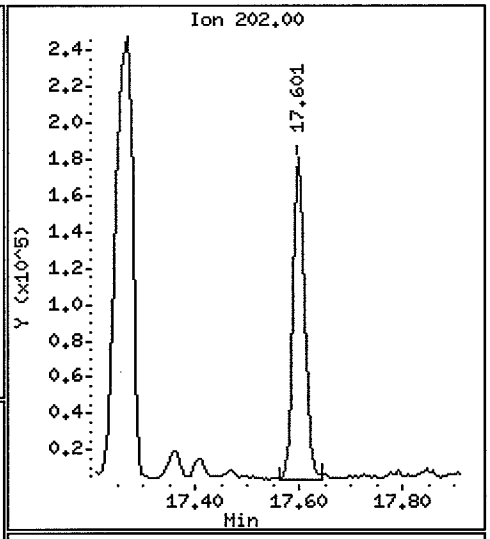
Column phase: ZB-5

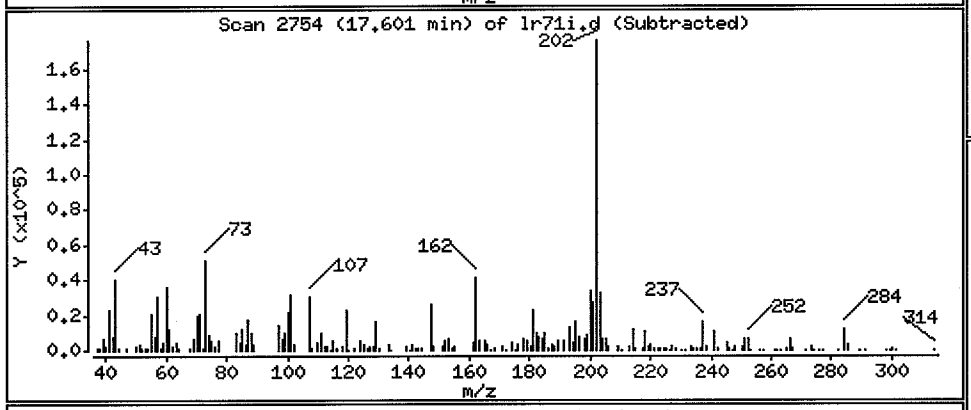
Column diameter: 0.32

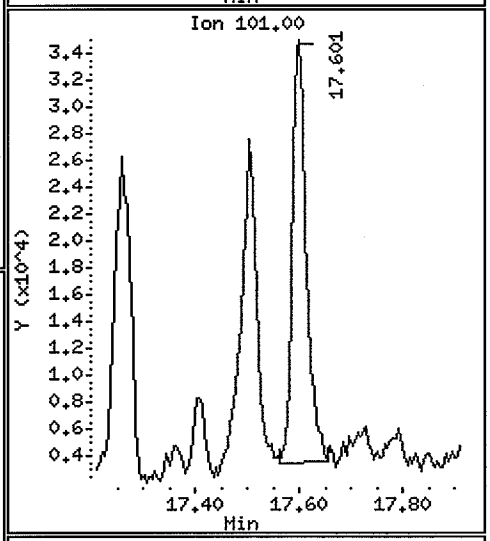
65 Pyrene

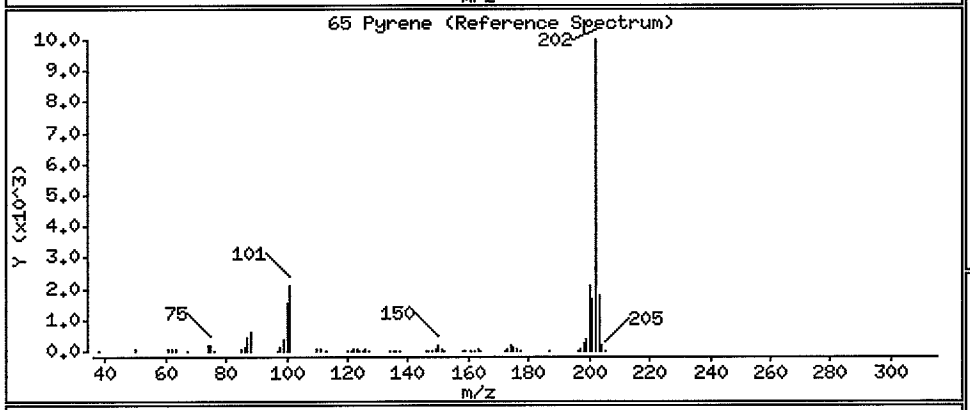
Concentration: 83.77 ug/kg

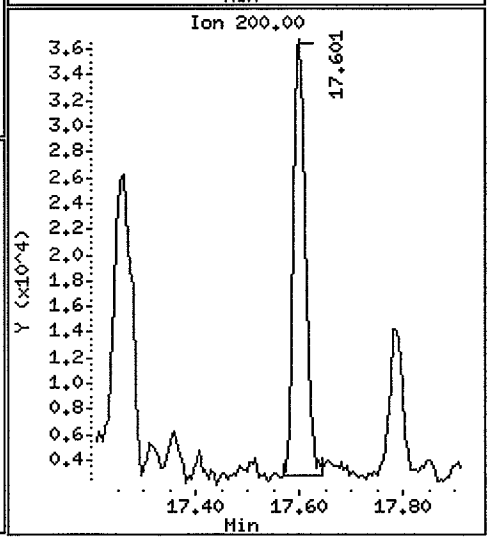


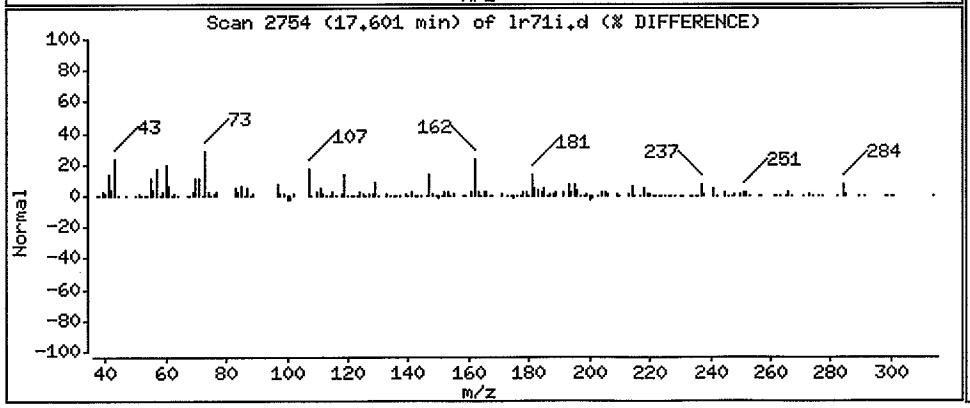












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05

Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0

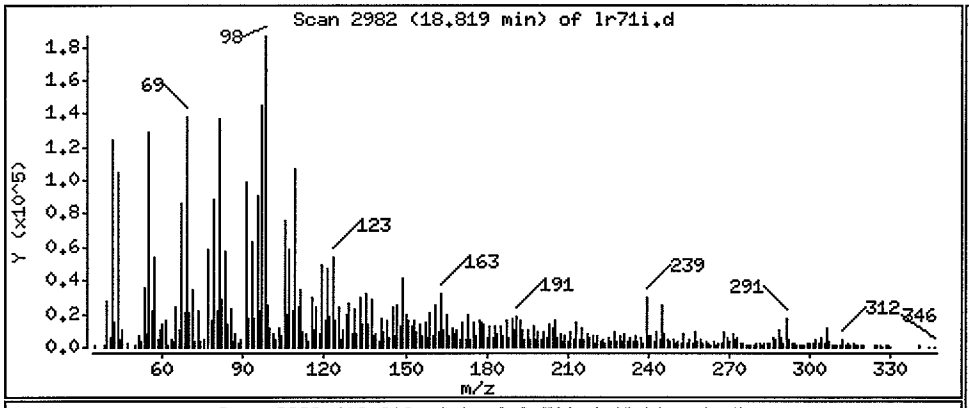
Operator: LJR/VTS

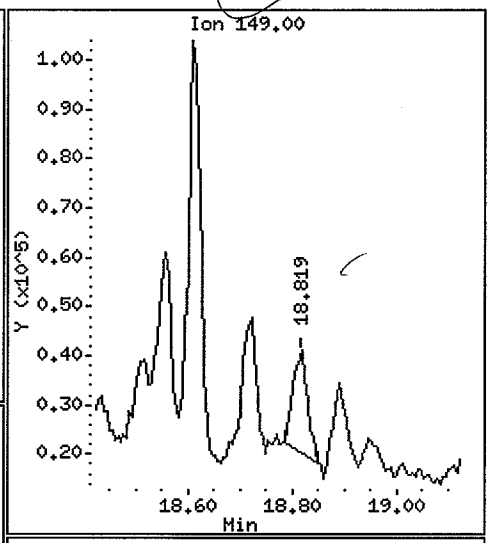
Column phase: ZB-5

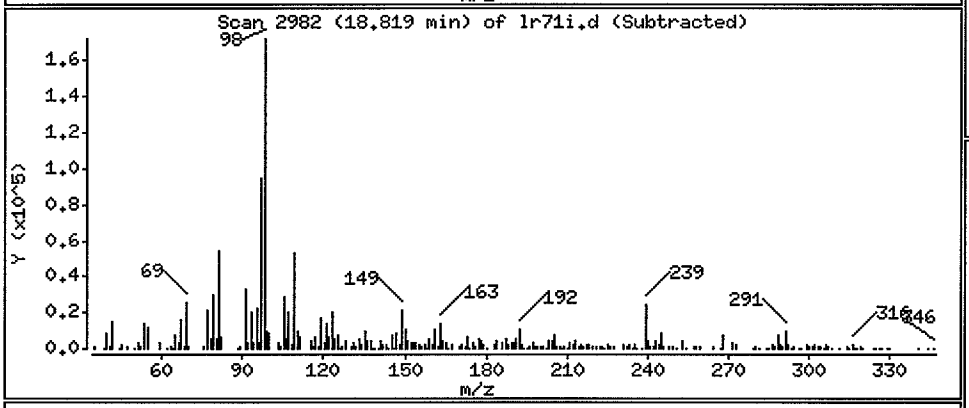
Column diameter: 0.32

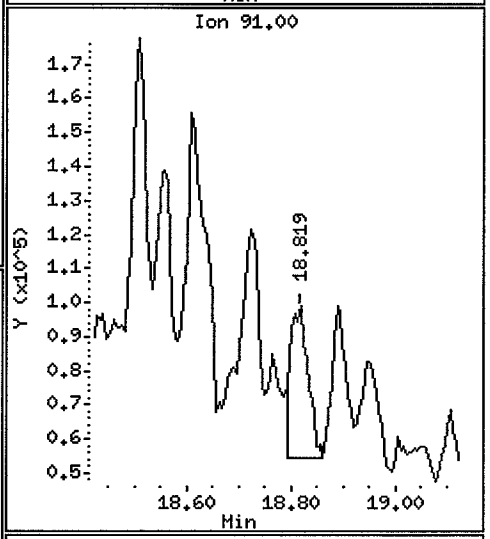
67 Butylbenzylphthalate

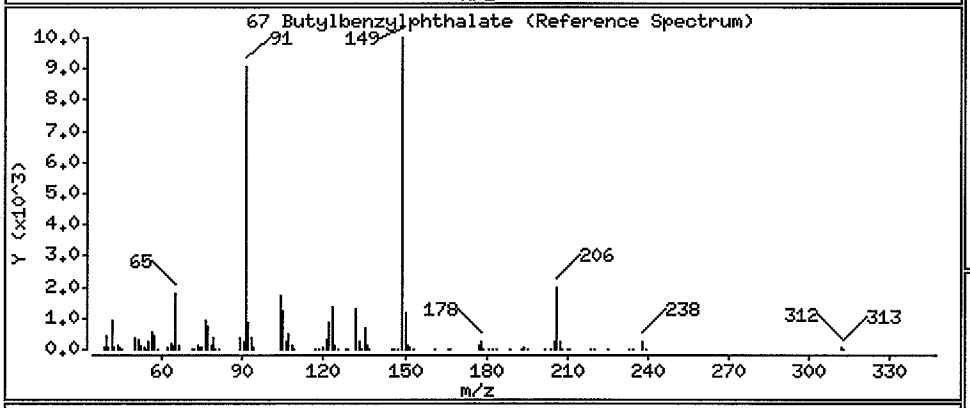
Concentration: 27.35 ug/kg

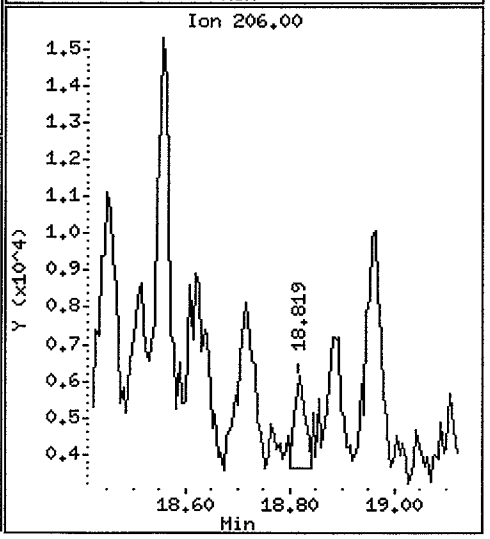


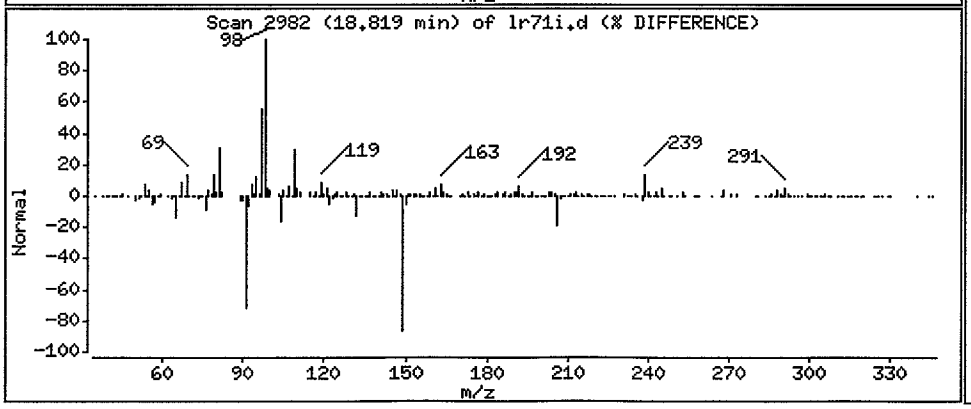












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

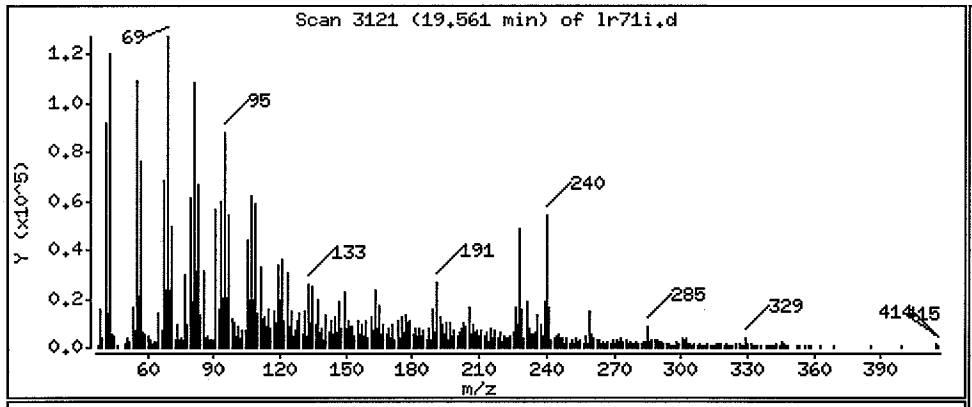
Client ID: AN-SS-05 Instrument: nt6.i

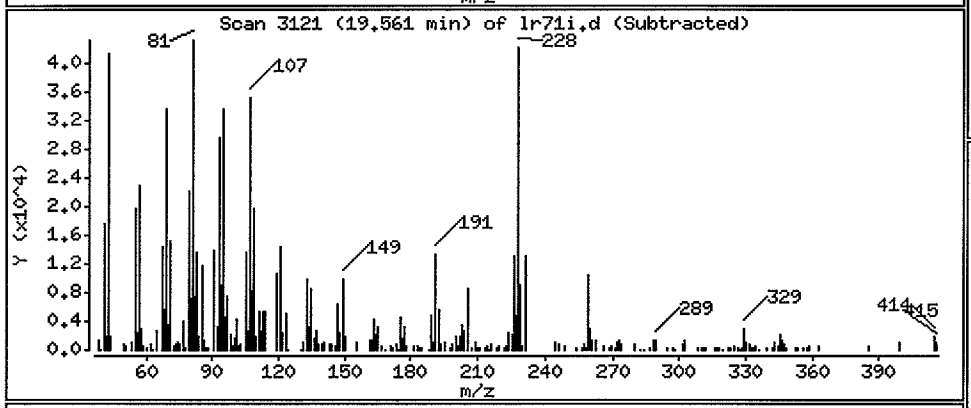
Sample Info: LR71I

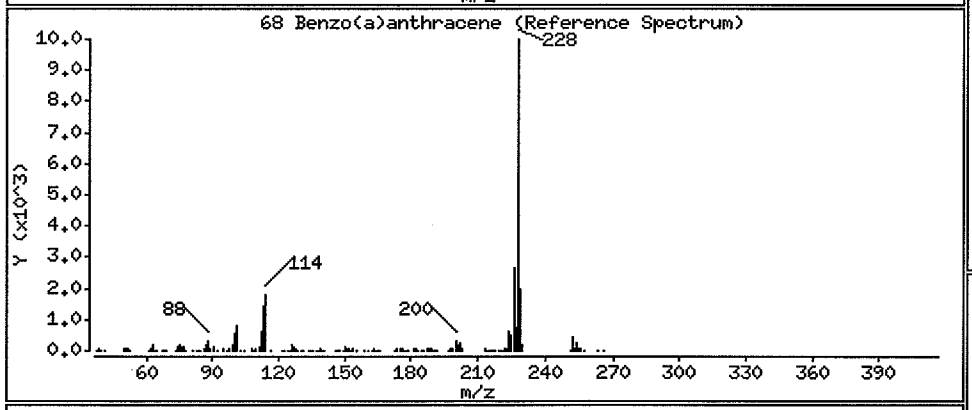
Volume Injected (uL): 1.0 Operator: LJR/VTS

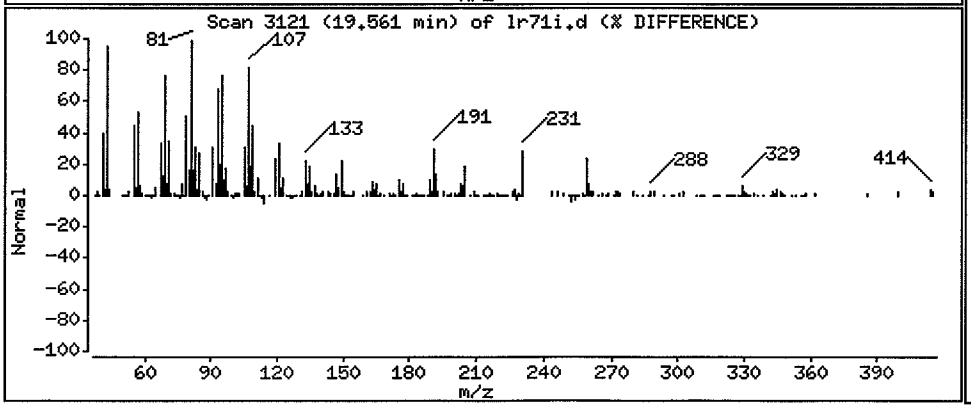
Column phase: ZB-5 Column diameter: 0.32

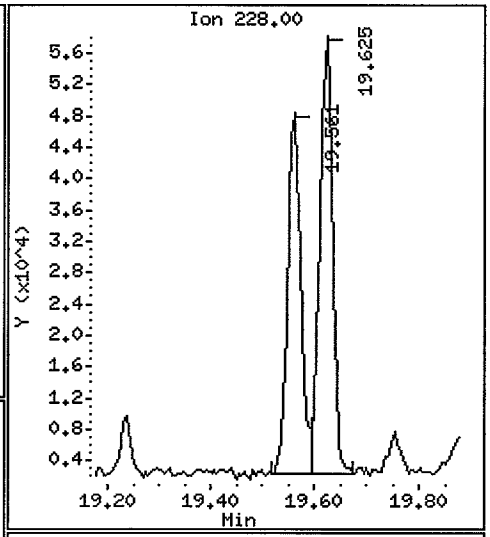
68 Benzo(a)anthracene Concentration: 23.46 ug/kg

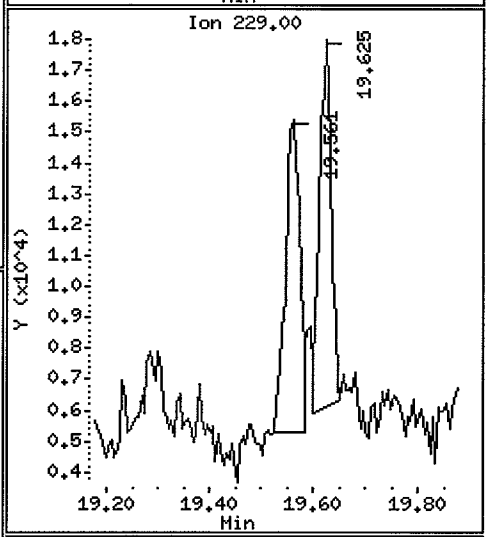


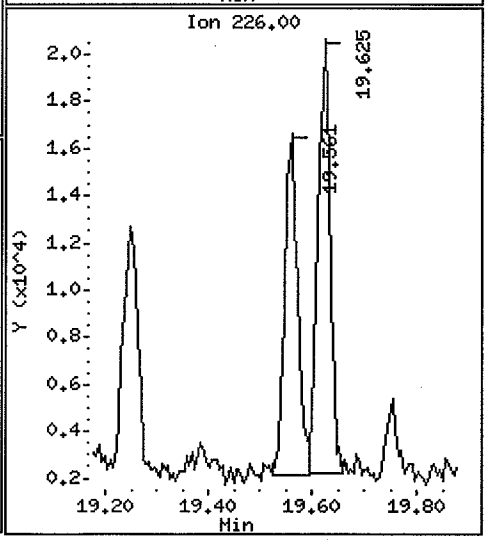












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05

Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0

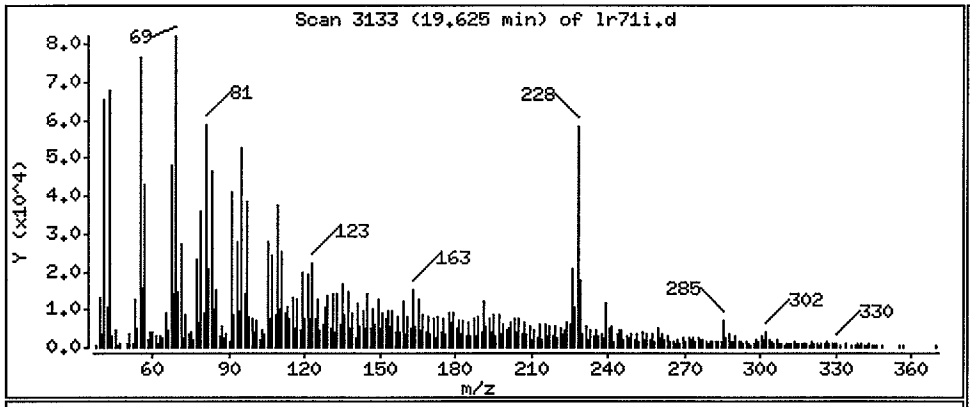
Operator: LJR/VTS

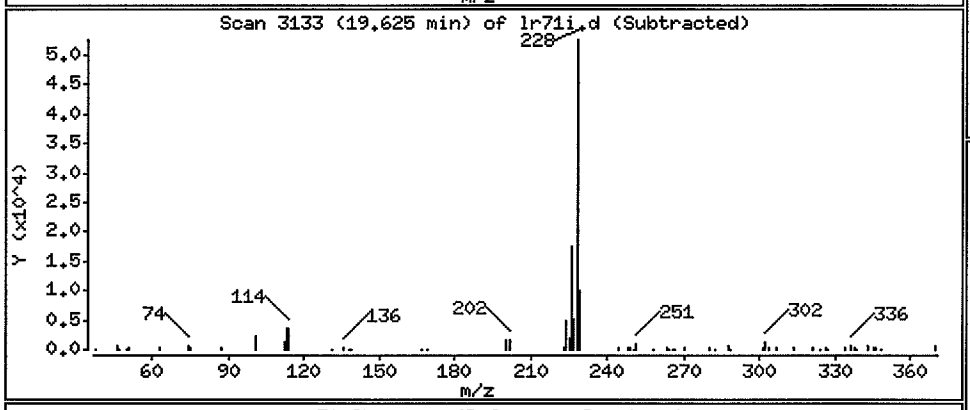
Column phase: ZB-5

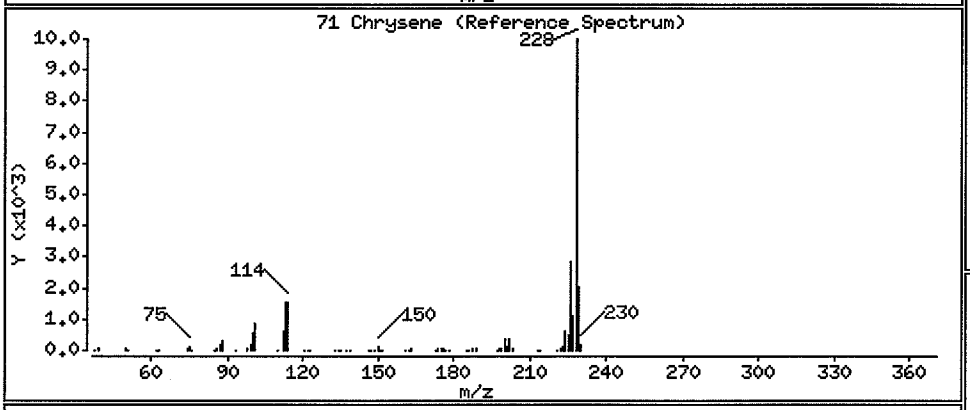
Column diameter: 0.32

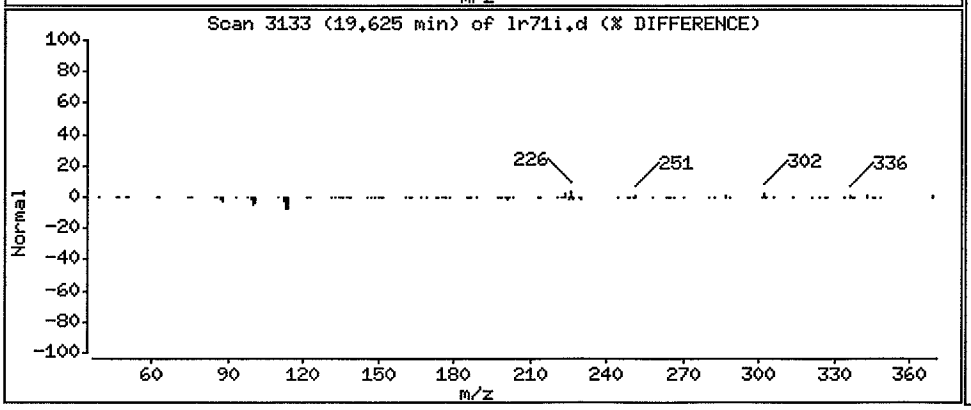
71 Chrysene

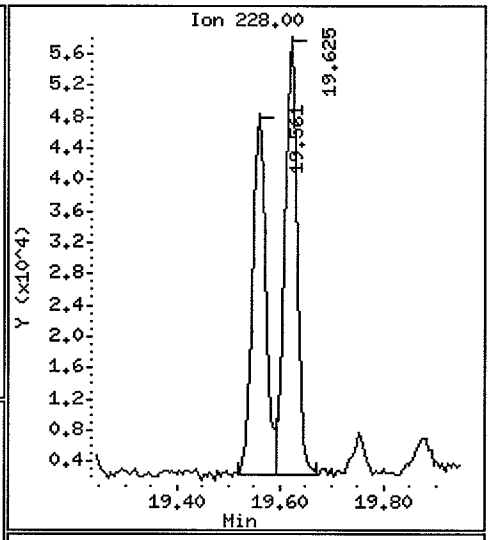
Concentration: 29.98 ug/kg

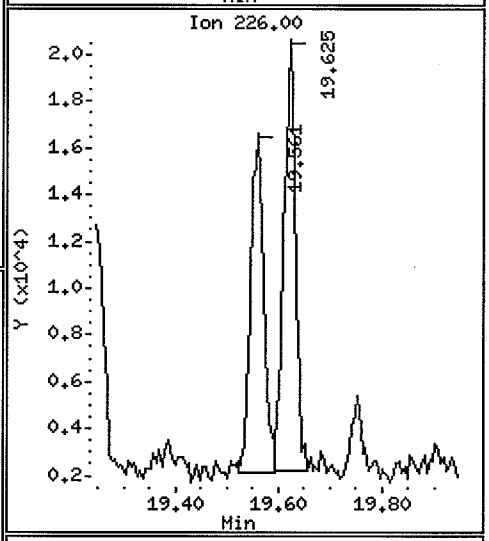


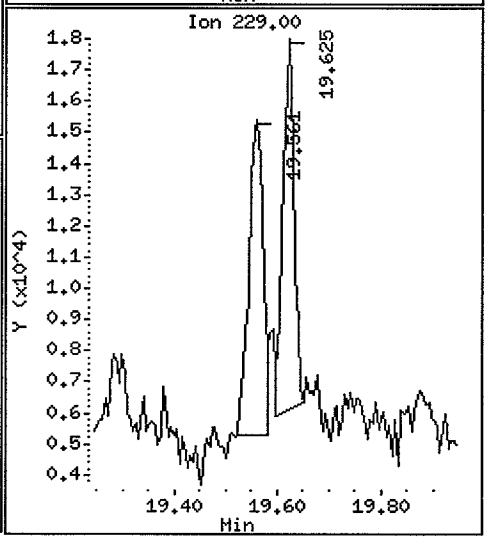












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

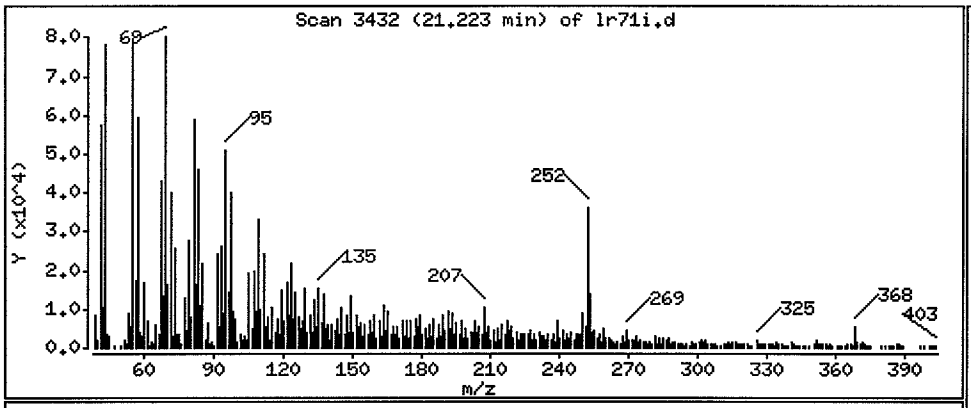
Client ID: AN-SS-05 Instrument: nt6.i

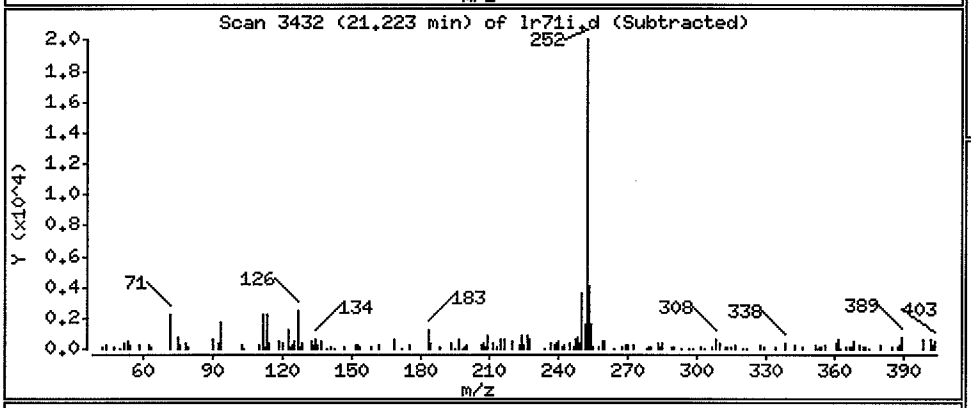
Sample Info: LR71I

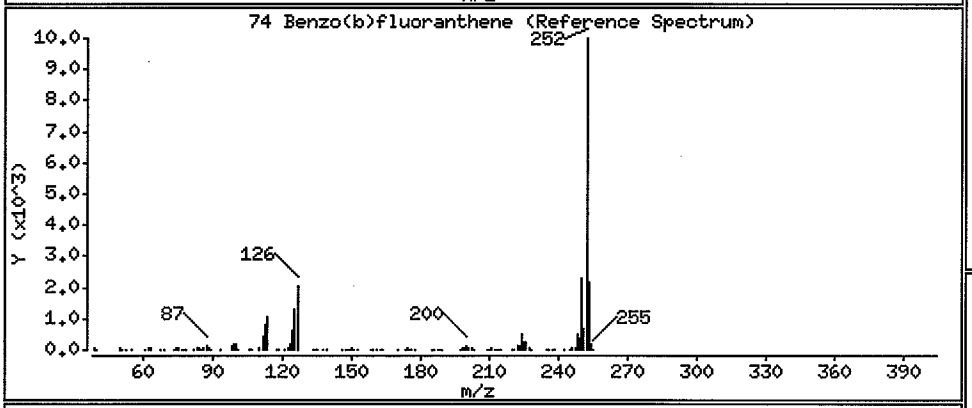
Volume Injected (uL): 1.0 Operator: LJR/VTS

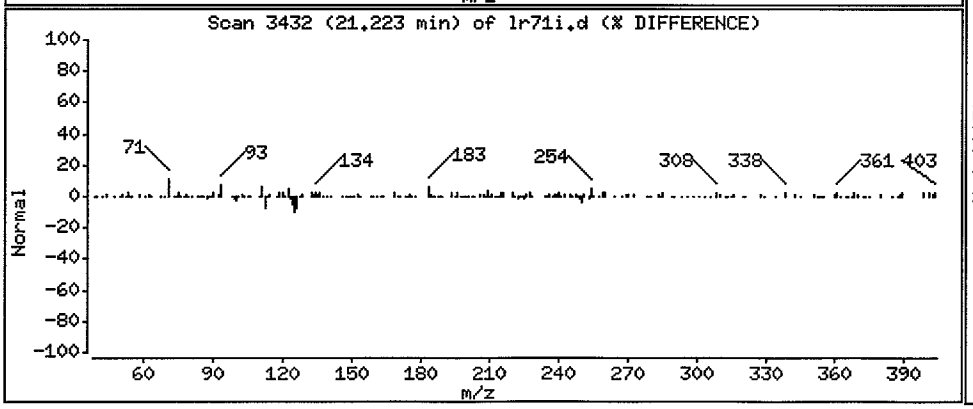
Column phase: ZB-5 Column diameter: 0.32

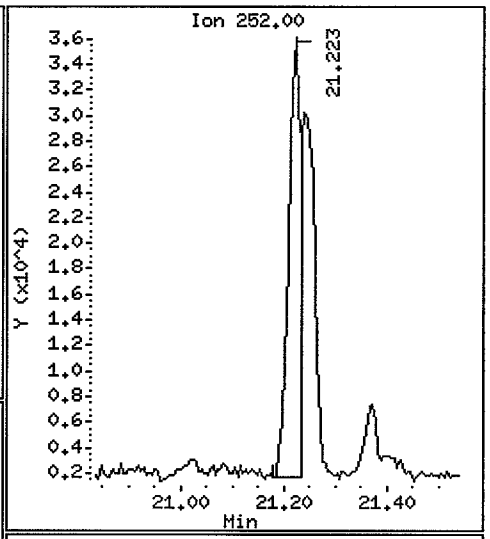
74 Benzo(b)fluoranthene Concentration: 27.75 ug/kg

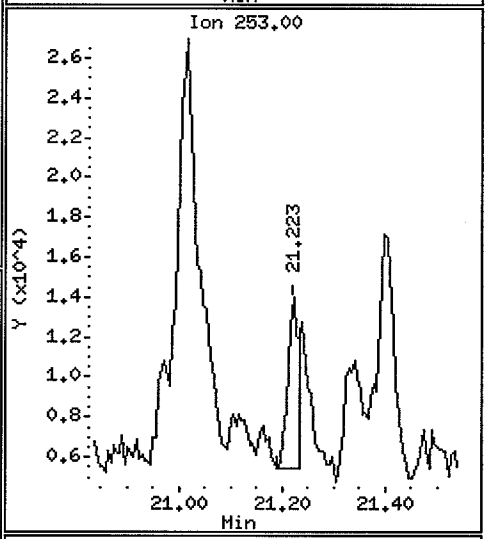


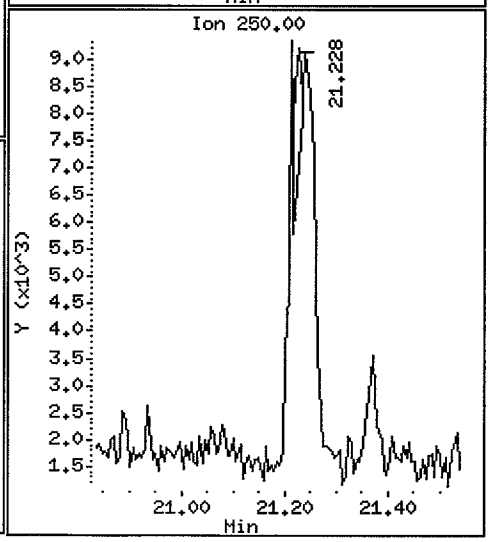












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

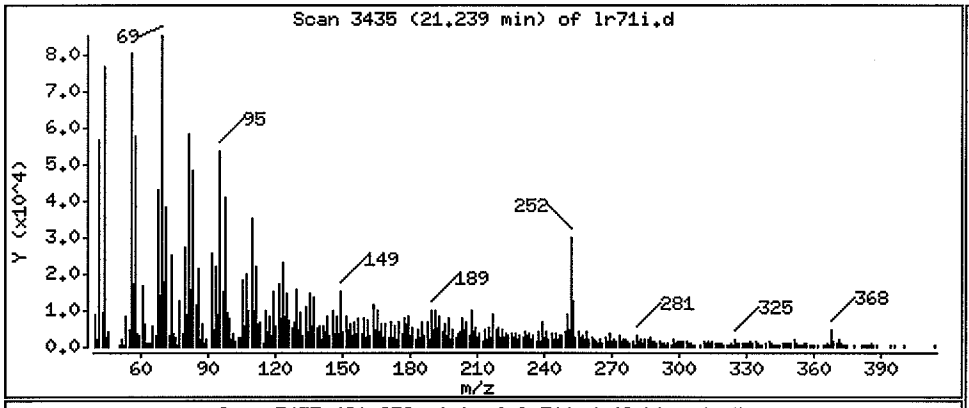
Client ID: AN-SS-05 Instrument: nt6.i

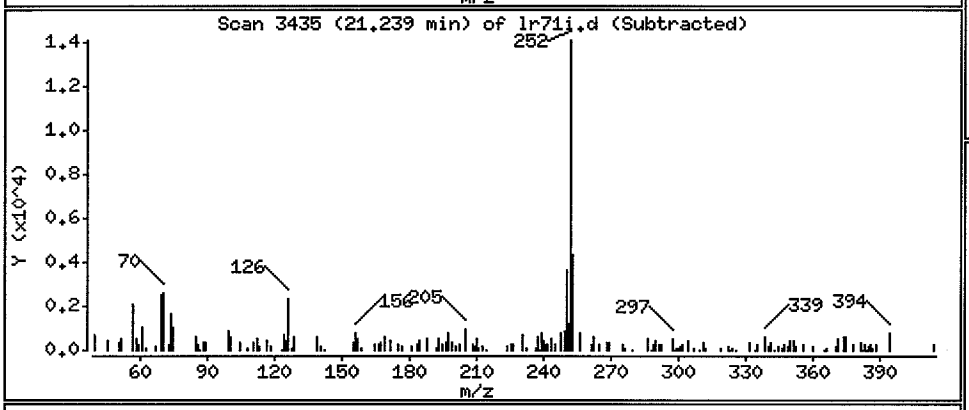
Sample Info: LR71I

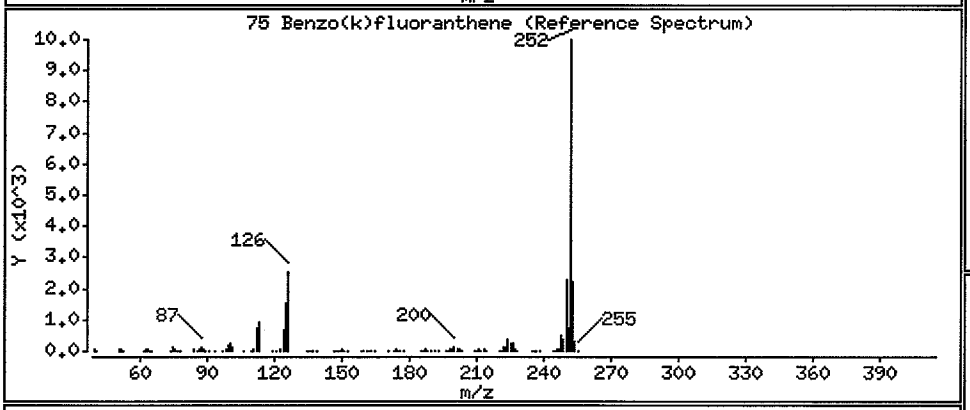
Volume Injected (uL): 1.0 Operator: LJR/VTS

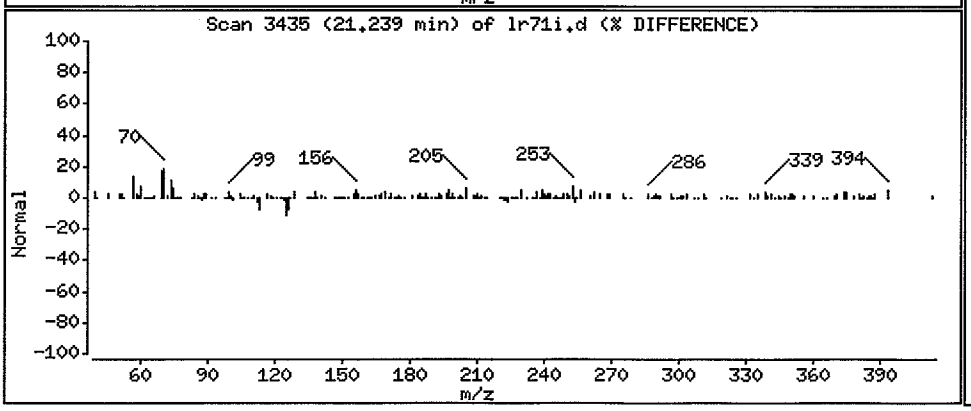
Column phase: ZB-5 Column diameter: 0.32

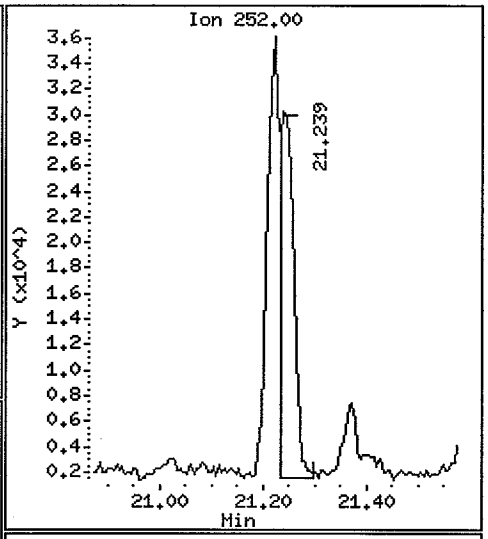
75 Benzo(k)fluoranthene Concentration: 24.57 ug/kg

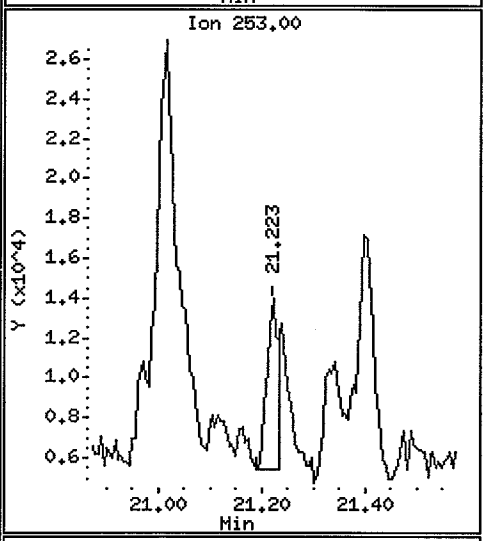


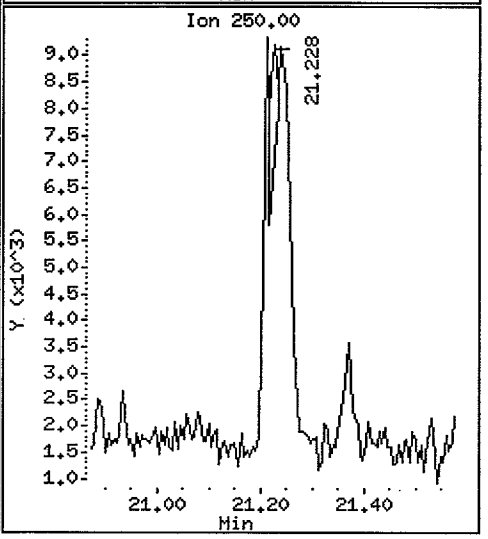












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

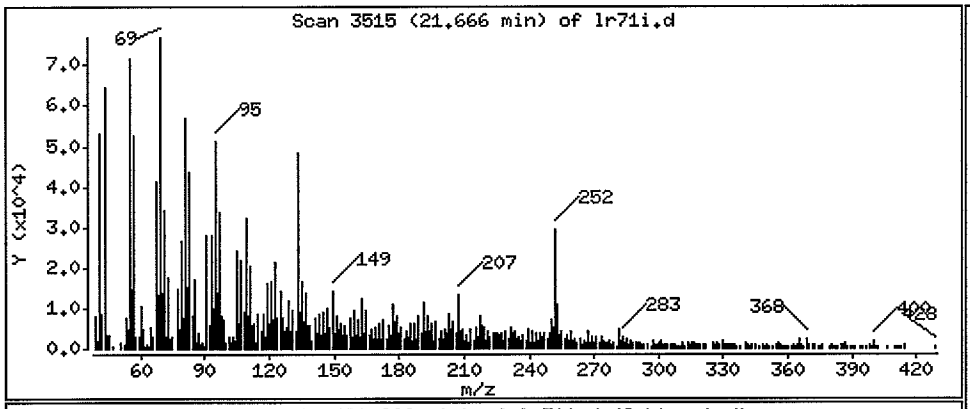
Client ID: AN-SS-05 Instrument: nt6.i

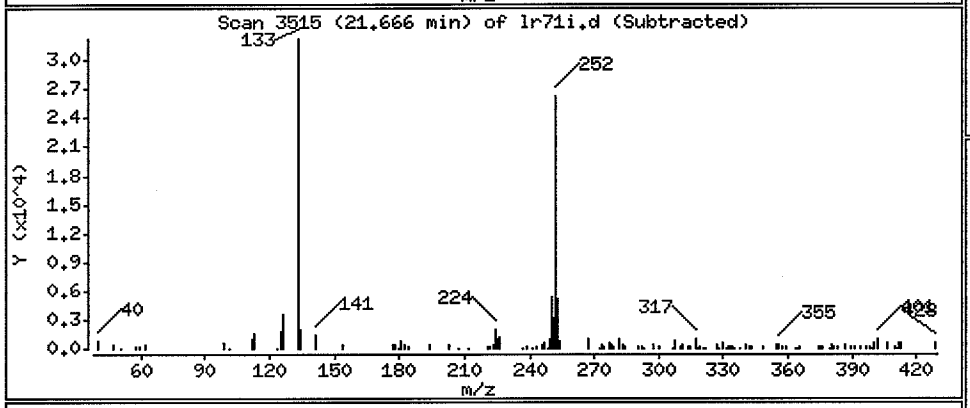
Sample Info: LR71I

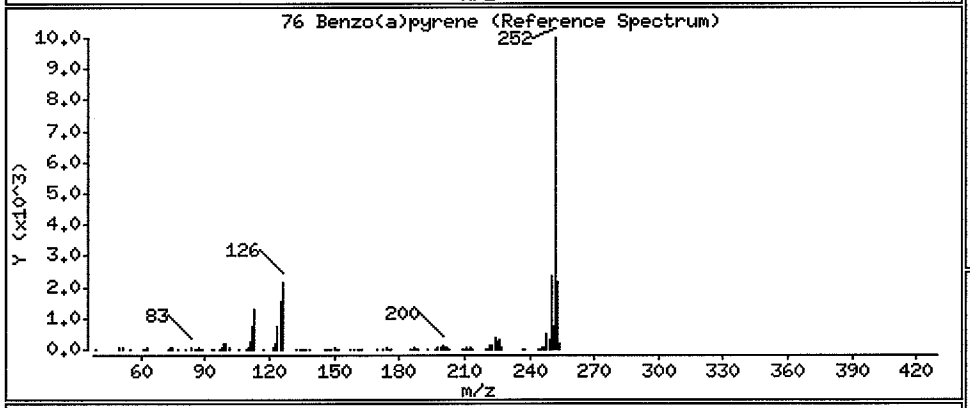
Volume Injected (uL): 1.0 Operator: LJR/VTS

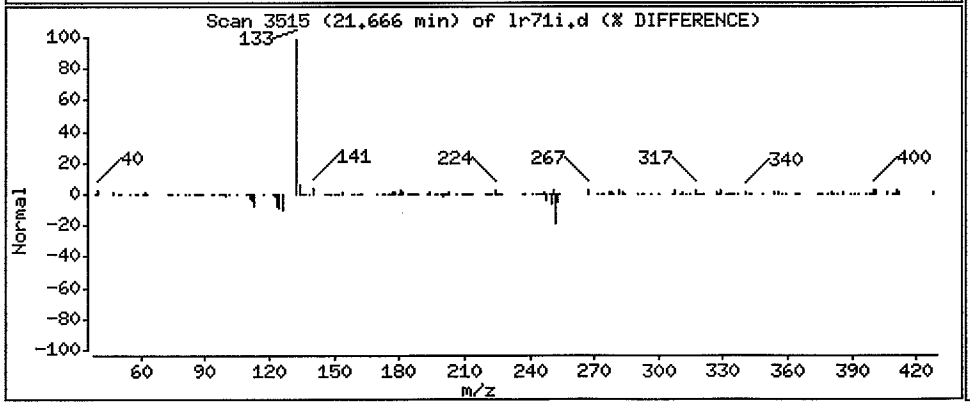
Column phase: ZB-5 Column diameter: 0.32

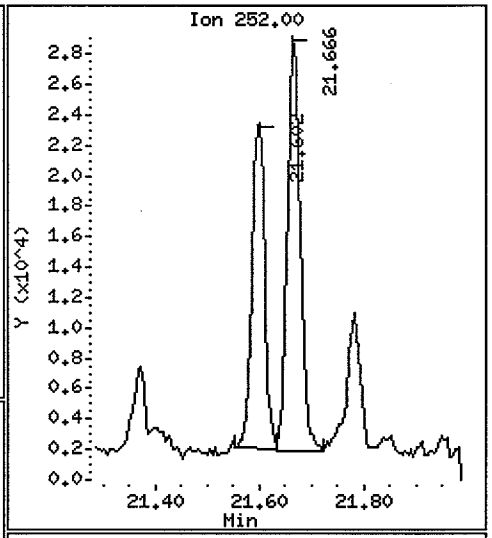
76 Benzo(a)pyrene Concentration: 24.81 ug/kg

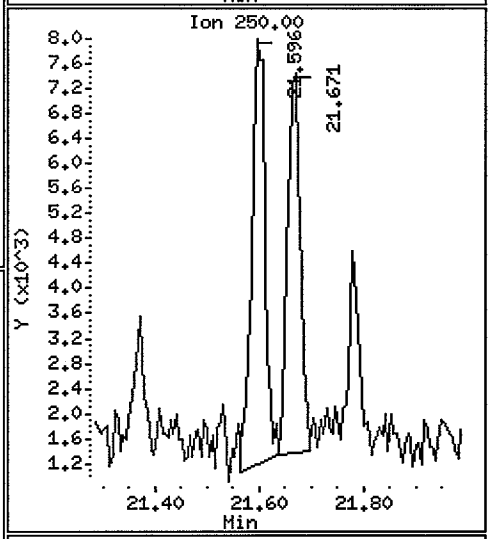


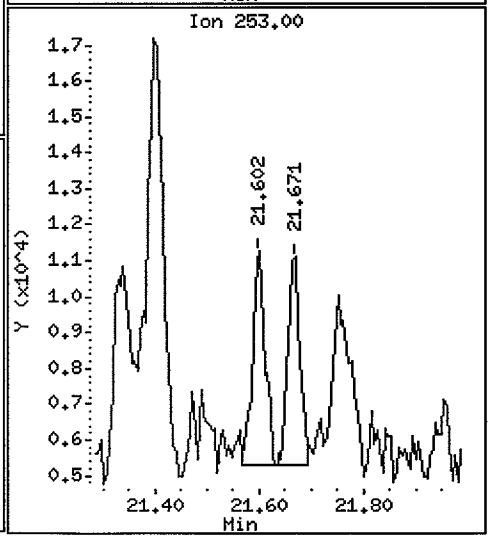












Data File: /chem1/nt6.i/20071018.b/lr71i.d

Date : 18-OCT-2007 19:44

Client ID: AN-SS-05 Instrument: nt6.i

Sample Info: LR71I

Volume Injected (uL): 1.0 Operator: LJR/VTS

Column phase: ZB-5 Column diameter: 0.32

3 Phenol Concentration: 10.54 ug/kg

