Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lr71l.d
Lab Smp Id: LR71L
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20777

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-09
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	194381	-8.34
27 Naphthalene-d8	656578	328289	1313156	626323	-4.61
42 Acenaphthene-d10	353705	176852	707410	398480	12.66
59 Phenanthrene-d10	526440	263220	1052880	717880	36.37
69 Chrysene-d12	581923	290962	1163846	858666	47.56
134 Di-n-octylphthala	979097	489548	1958194	1251061	27.78
77 Perylene-d12	686531	343266	1373062	534676	-22.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.91	0.06
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	0.10
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	0.15
77 Perylene-d12	21.72	21.22	22.22	21.76	0.17

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

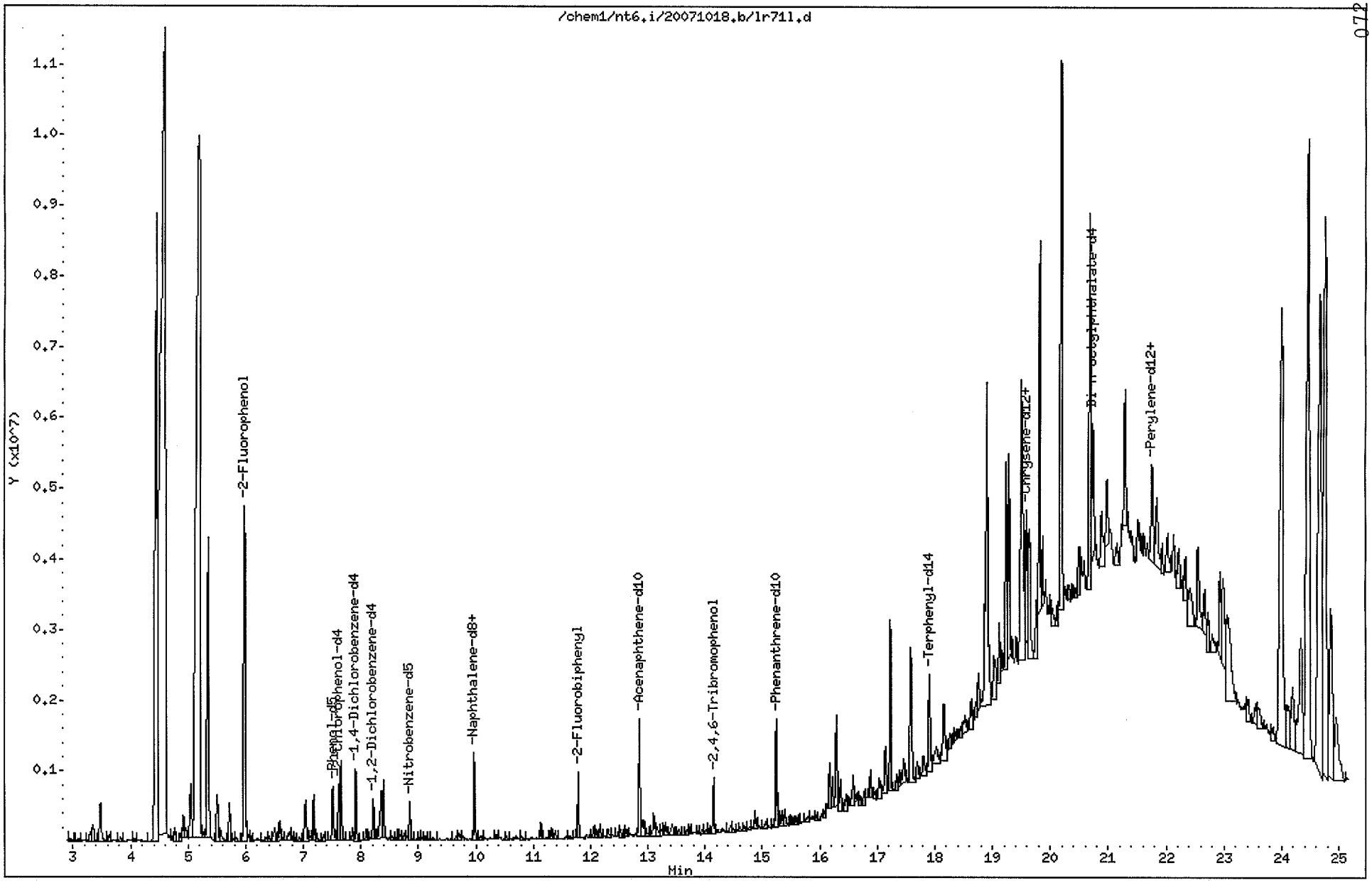
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71L
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20777

Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-09
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	748.7	455.2	60.80	11-84
$ 2 Phenol-d5	748.7	397.0	53.02	25-86
$ 5 2-Chlorophenol-d4	748.7	403.4	53.88	23-91
$ 10 1,2-Dichlorobenzen	499.2	226.4	45.36	24-90
$ 18 Nitrobenzene-d5	499.2	248.9	49.86	26-88
$ 36 2-Fluorobiphenyl	499.2	246.8	49.45	34-91
$ 55 2,4,6-Tribromophen	748.7	487.8	65.15	25-107
$ 66 Terphenyl-d14	499.2	302.1	60.53	22-100

Data File: /chem1/nt6.i/20071018.b/lr711.d
Date : 18-OCT-2007 21:25
Client ID: AN-SS-09
Sample Info: LR71L
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/lr711.d

Date : 18-OCT-2007 21:25

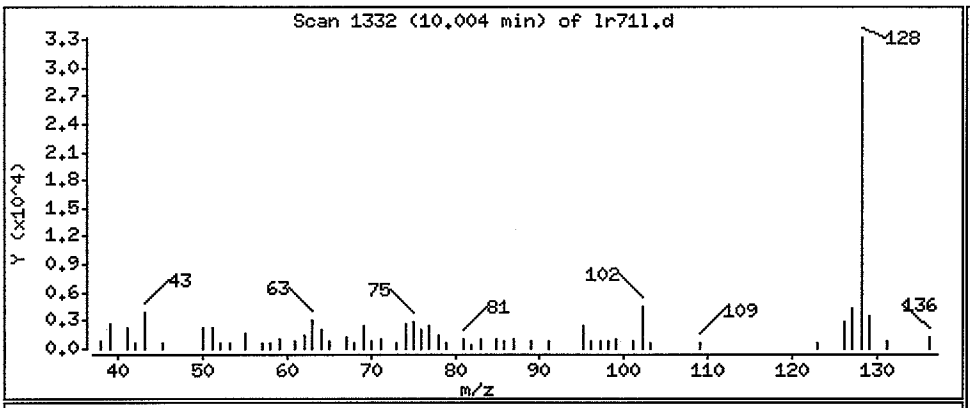
Client ID: AN-SS-09 Instrument: nt6.i

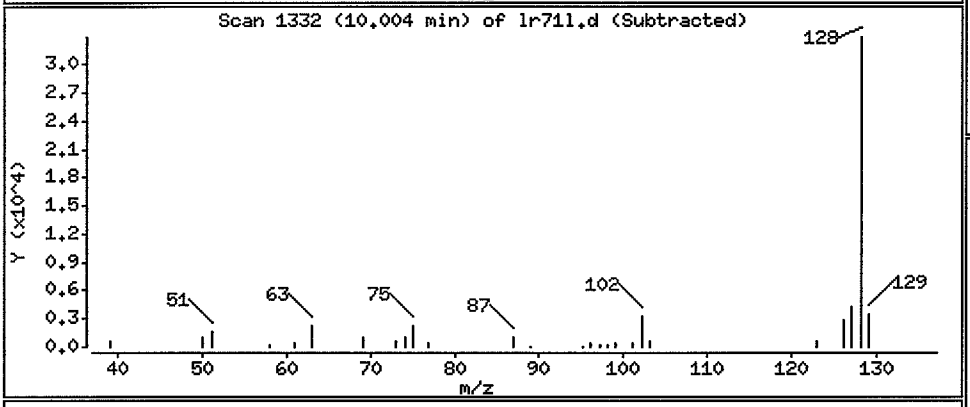
Sample Info: LR71L

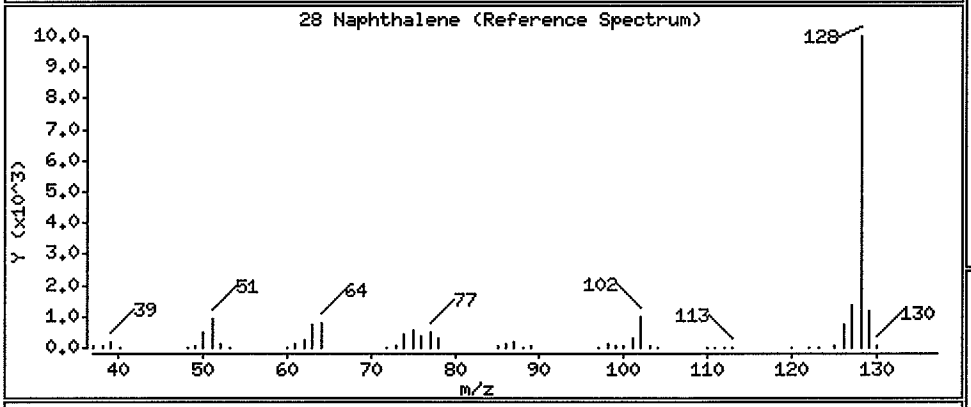
Volume Injected (uL): 1.0 Operator: LJR/VTS

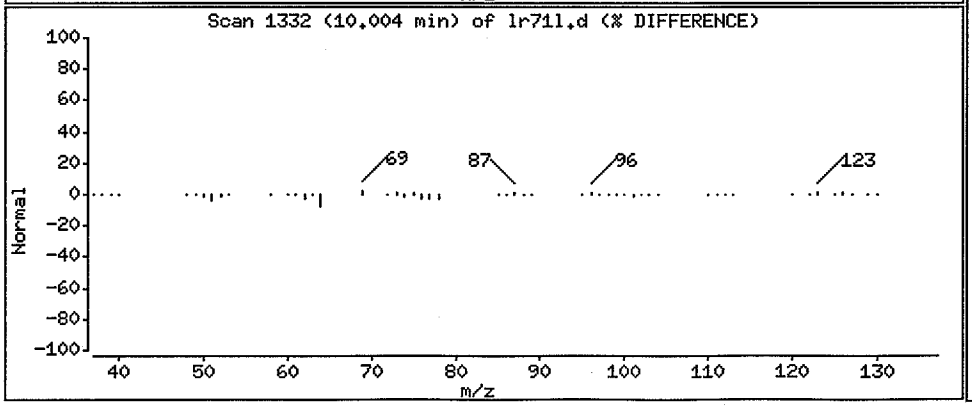
Column phase: ZB-5 Column diameter: 0.32

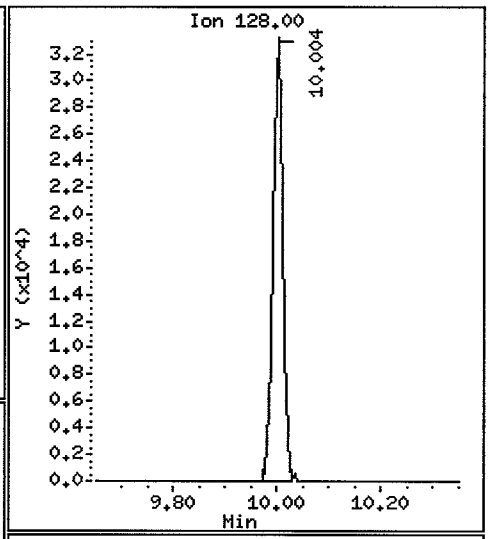
28 Naphthalene Concentration: 21.51 ug/kg

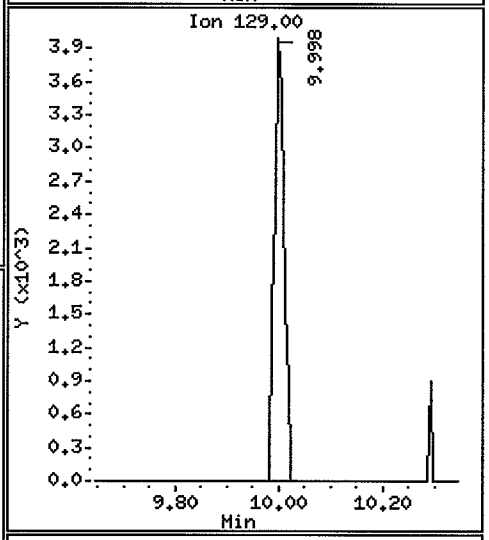


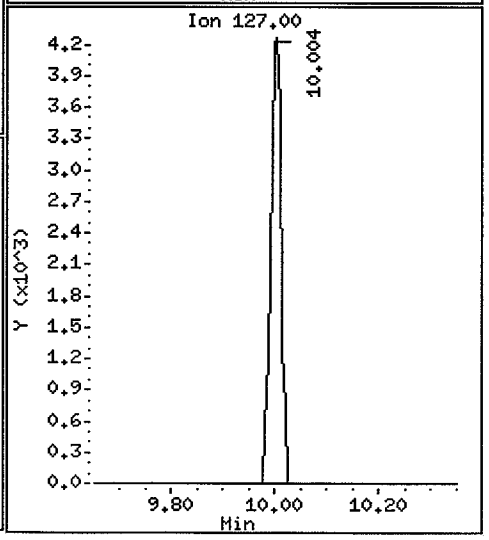












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

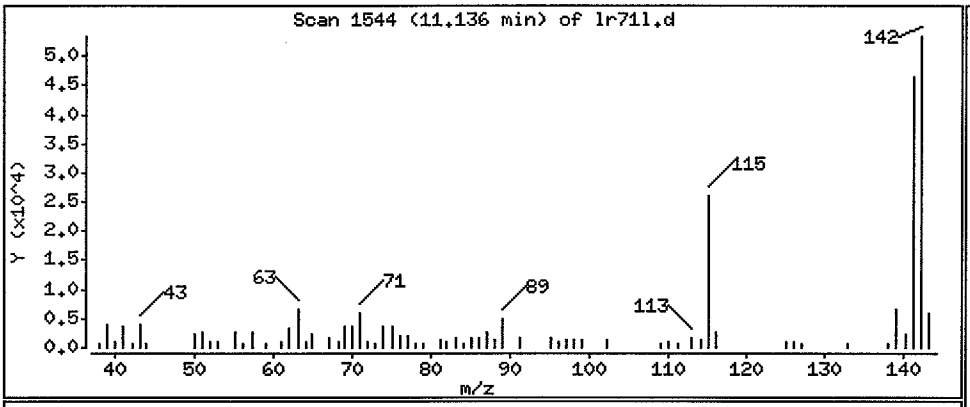
Client ID: AN-SS-09 Instrument: nt6.i

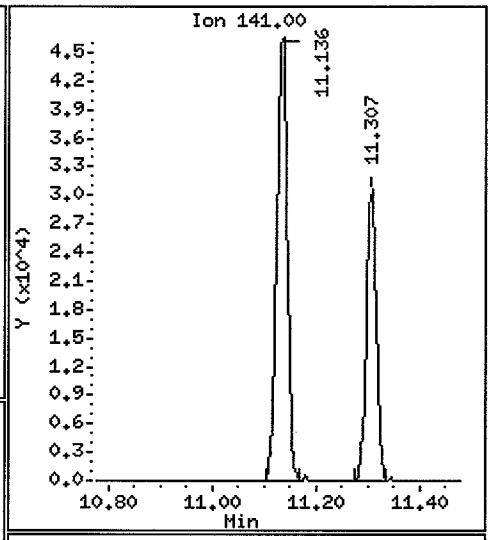
Sample Info: LR71L

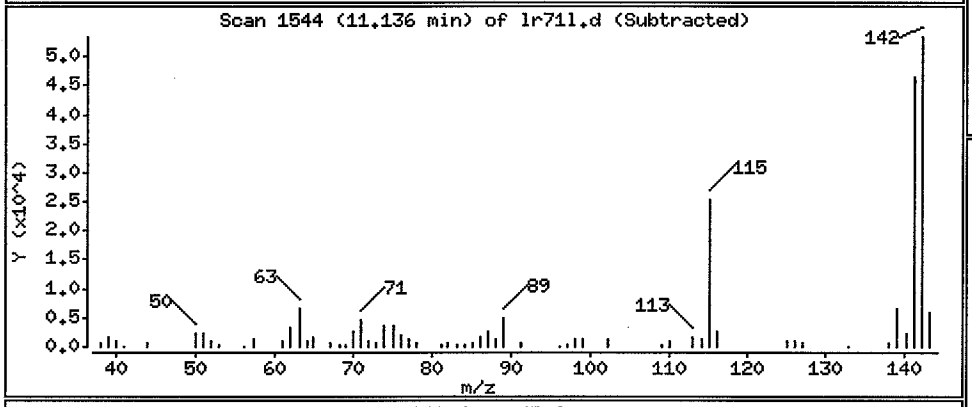
Volume Injected (uL): 1.0 Operator: LJR/VTS

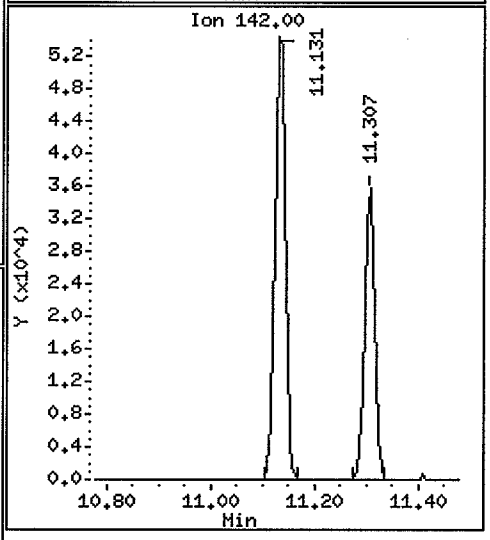
Column phase: ZB-5 Column diameter: 0.32

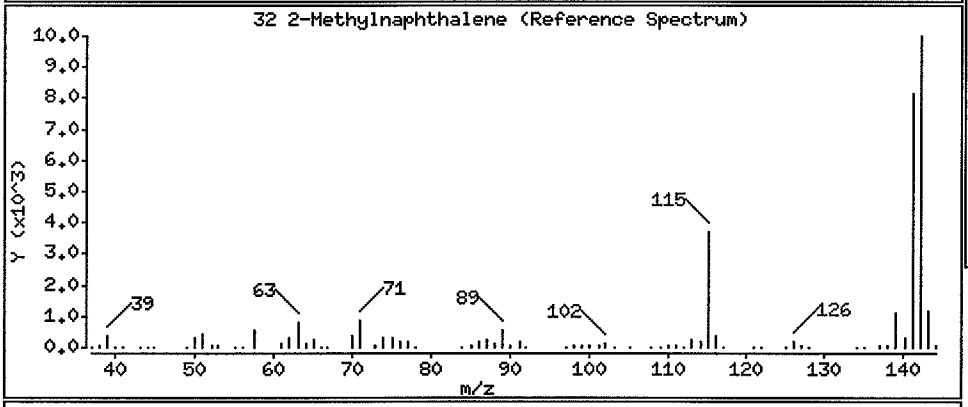
32 2-Methylnaphthalene Concentration: 66.22 ug/kg

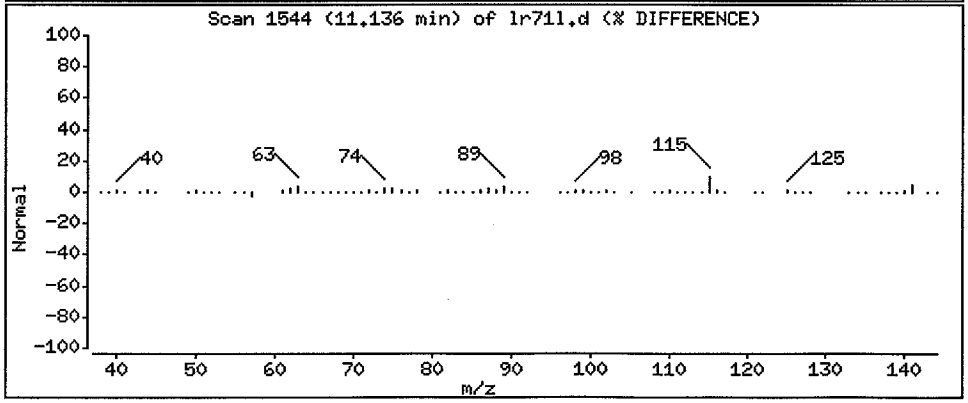












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

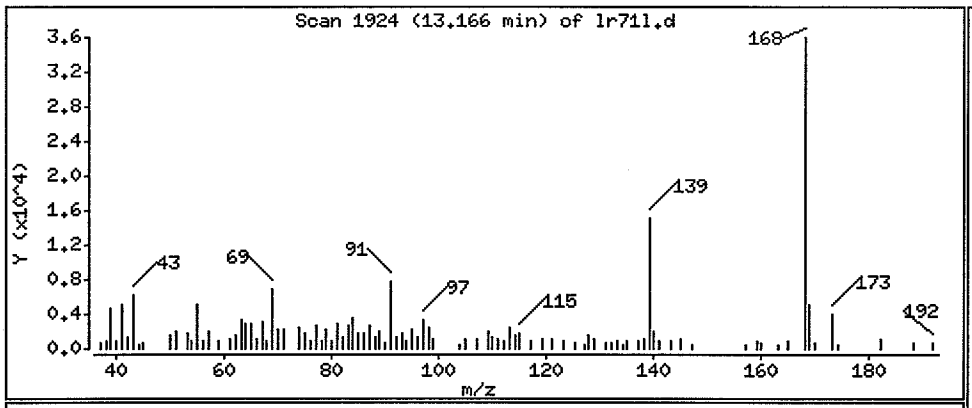
Operator: LJR/VTS

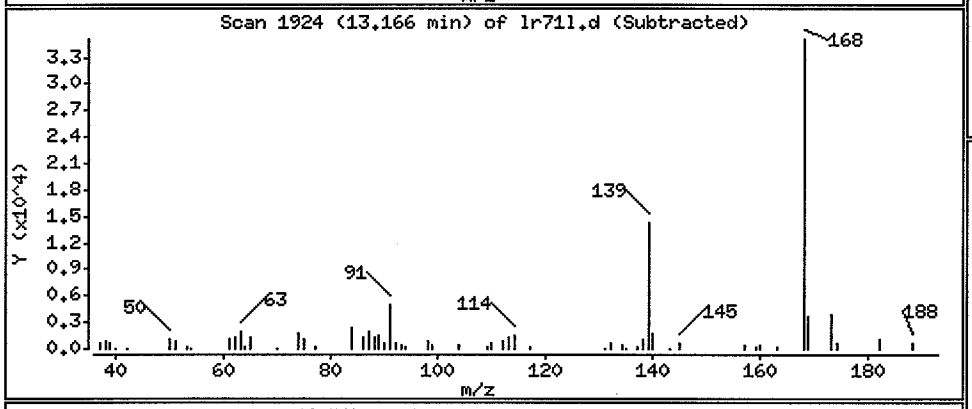
Column phase: ZB-5

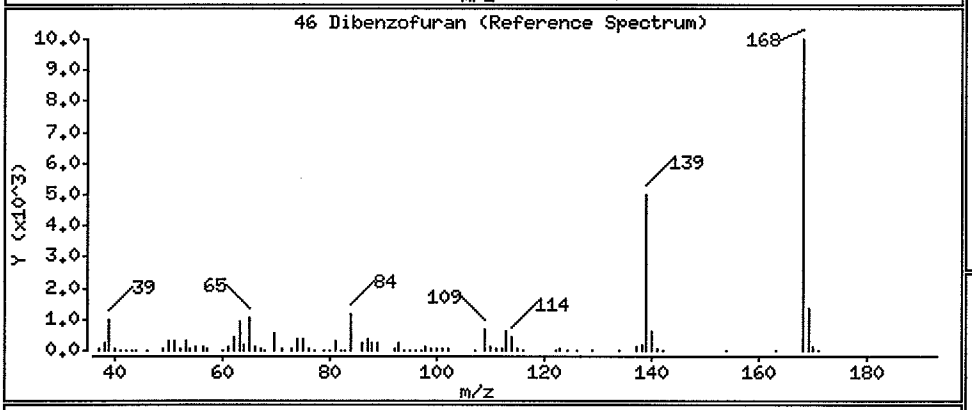
Column diameter: 0.32

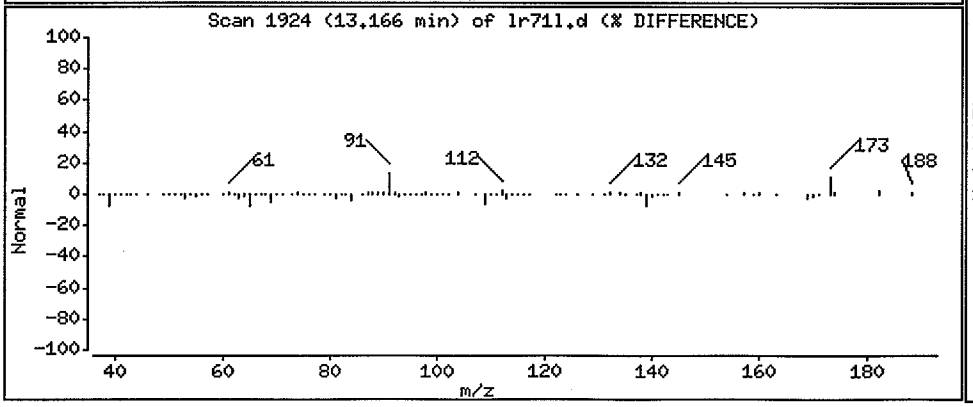
46 Dibenzofuran

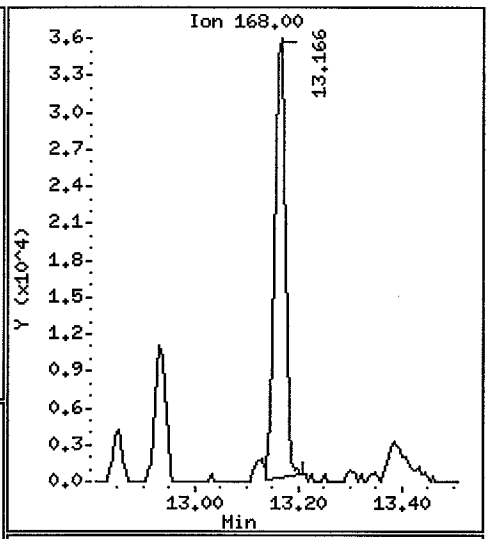
Concentration: 27.67 ug/kg

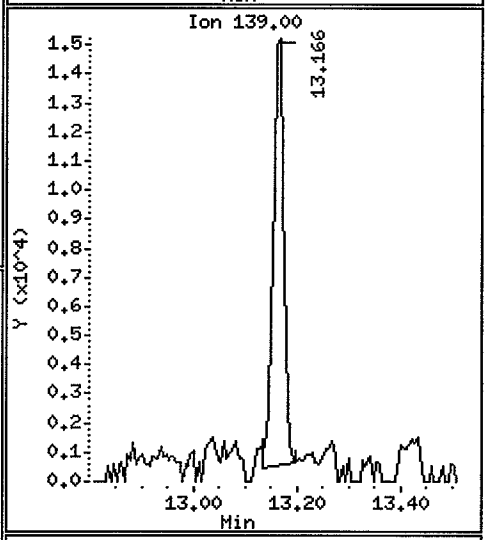


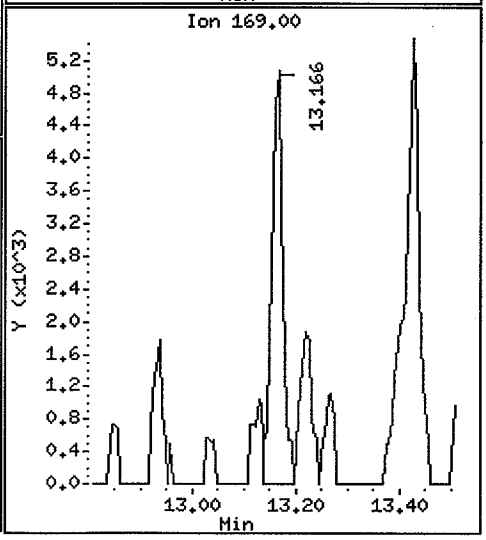












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

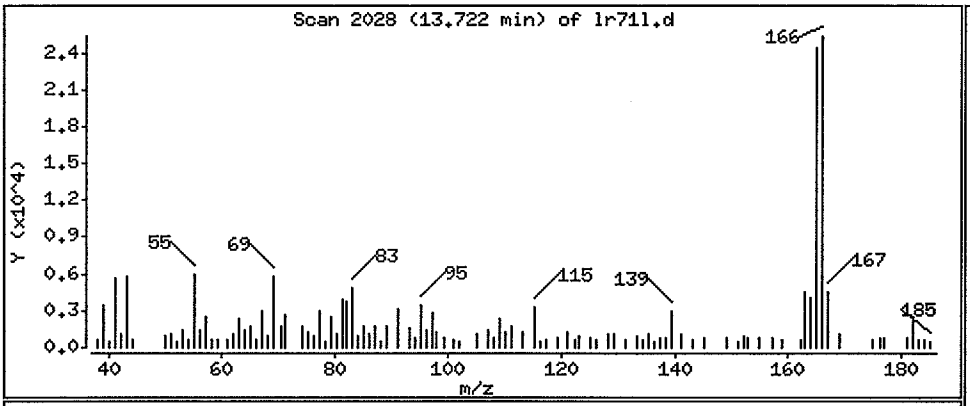
Operator: LJR/VTS

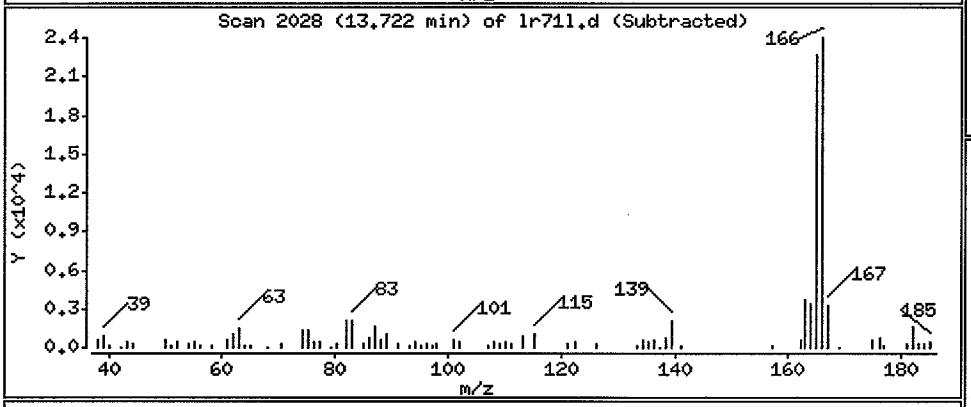
Column phase: ZB-5

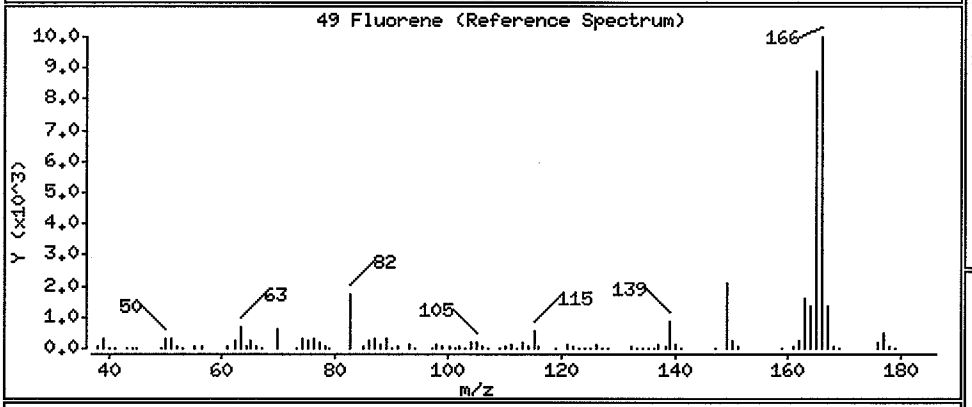
Column diameter: 0.32

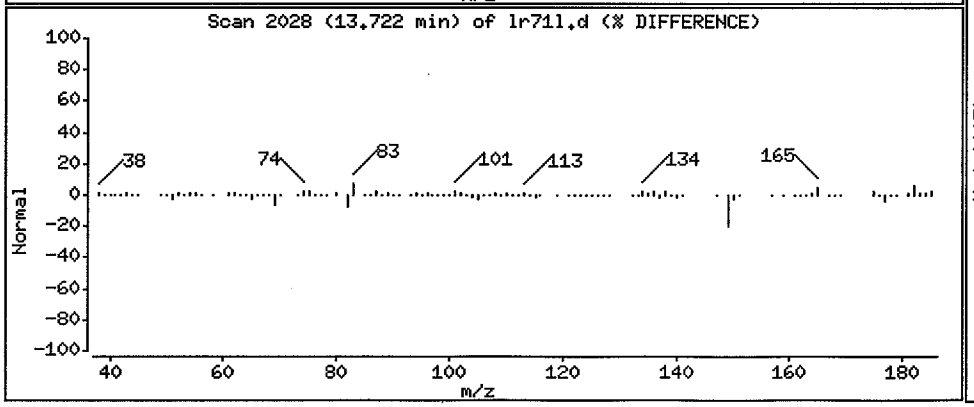
49 Fluorene

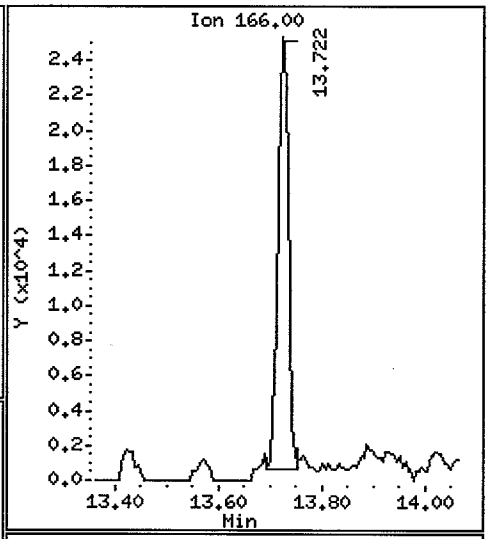
Concentration: 23.91 ug/kg

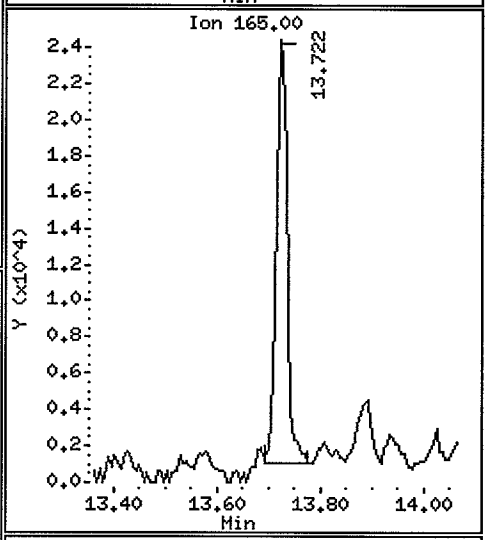


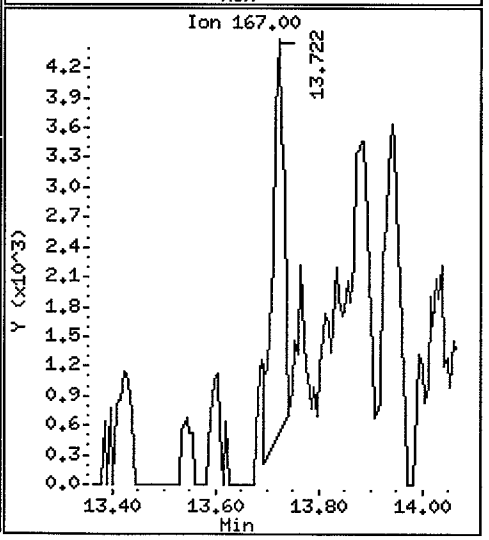












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

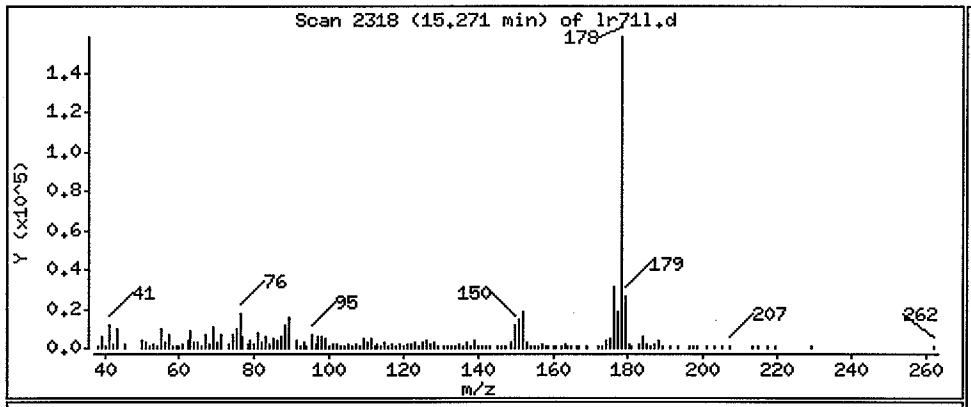
Operator: LJR/VTS

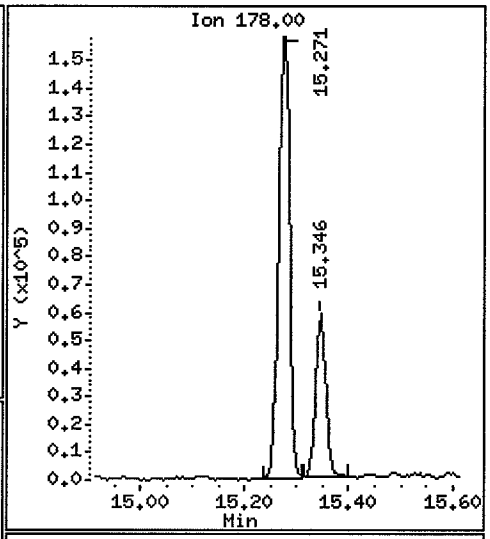
Column phase: ZB-5

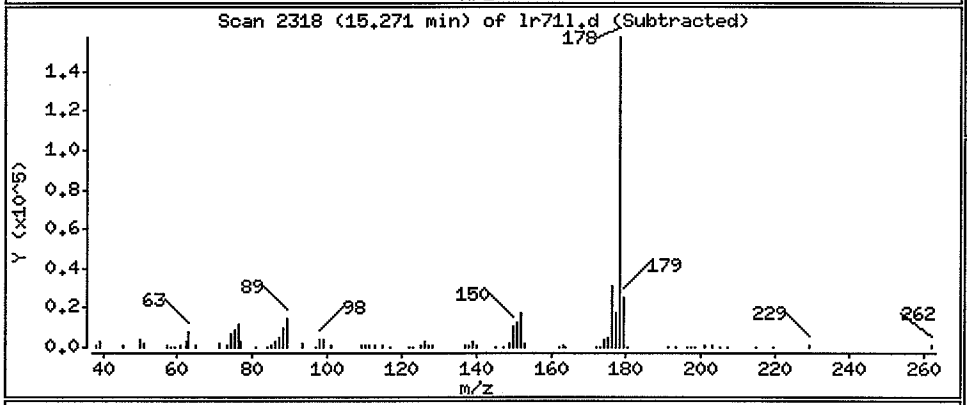
Column diameter: 0.32

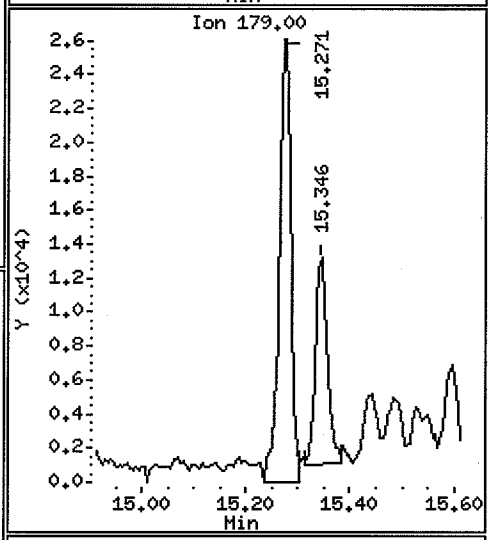
60 Phenanthrene

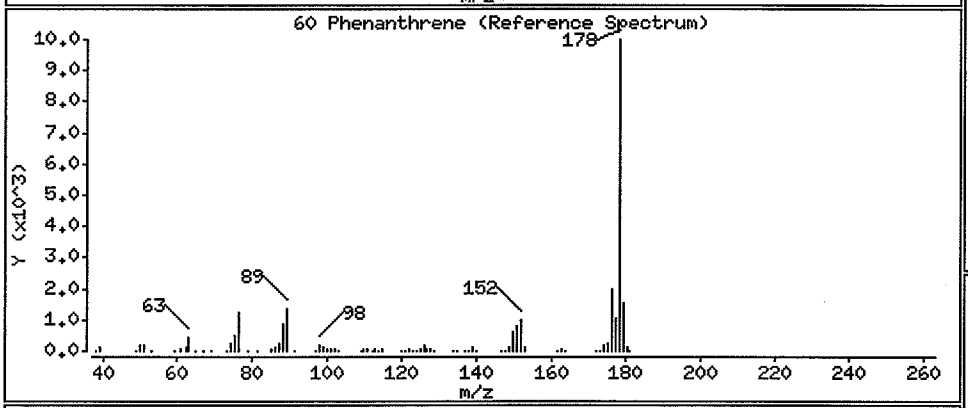
Concentration: 98.38 ug/kg

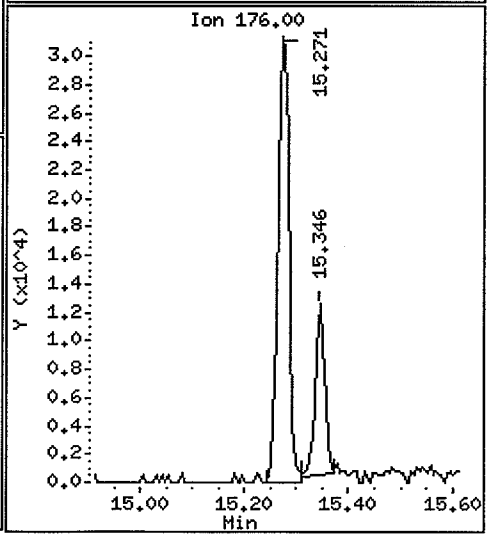


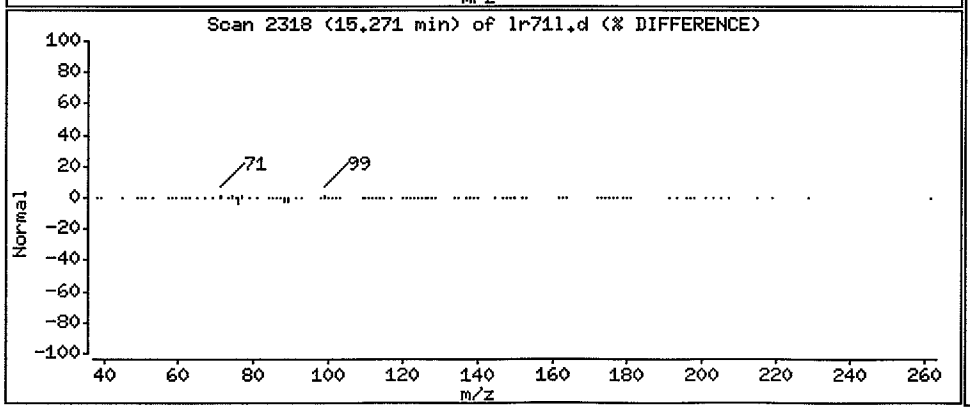












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

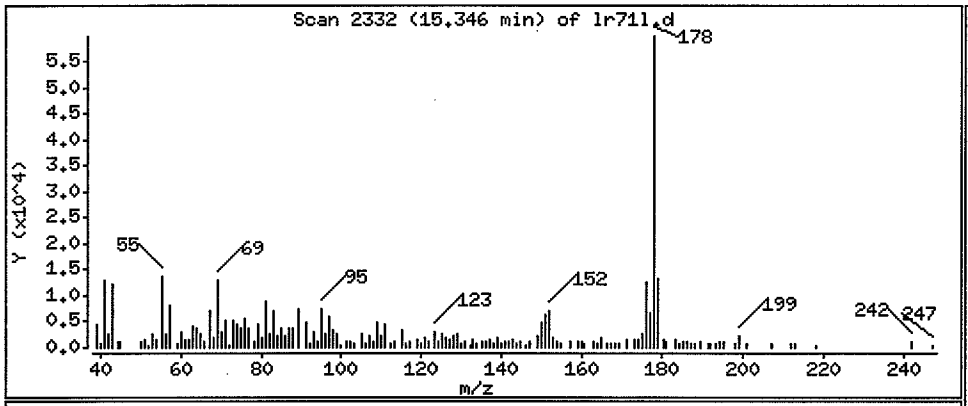
Operator: LJR/VTS

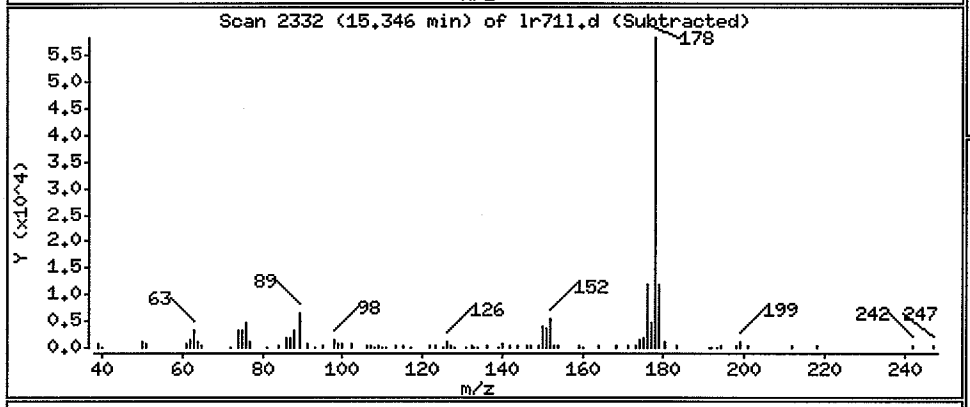
Column phase: ZB-5

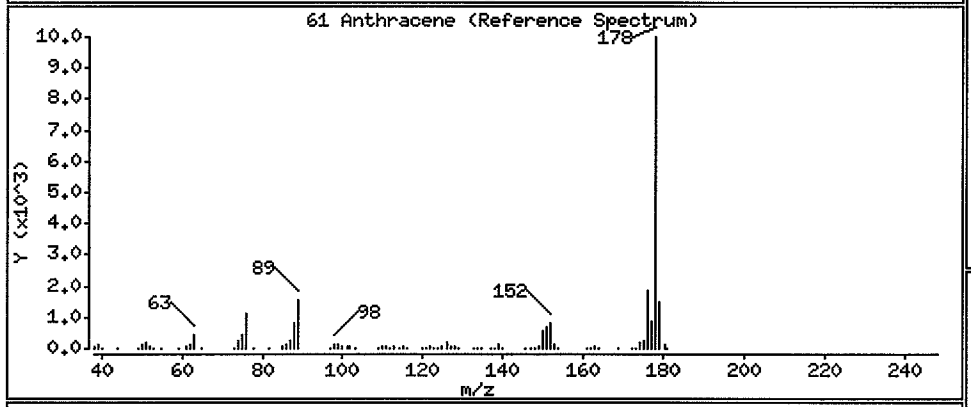
Column diameter: 0.32

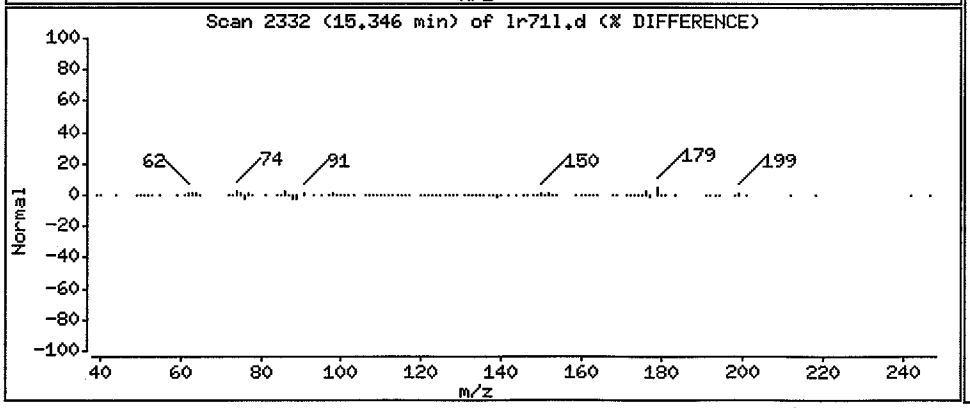
61 Anthracene

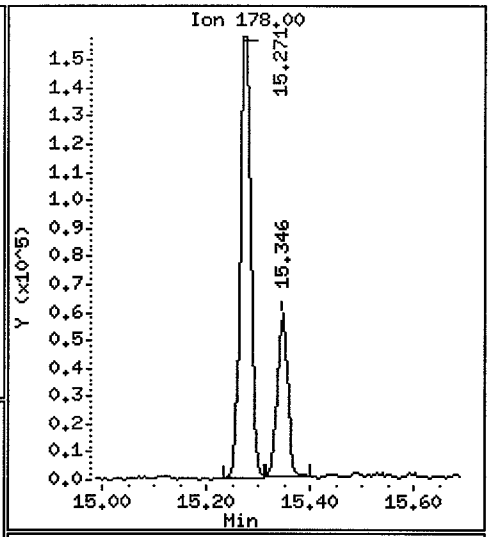
Concentration: 34.82 ug/kg

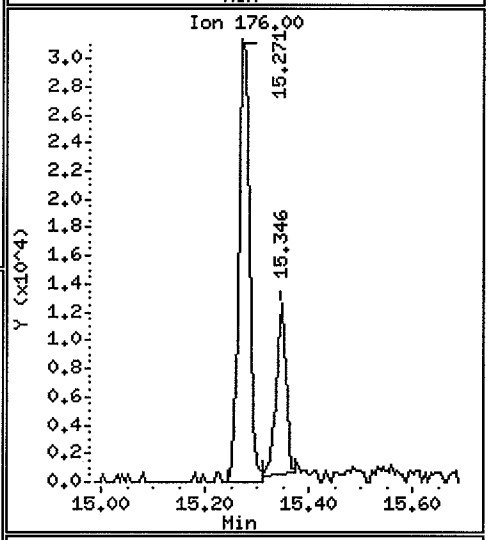


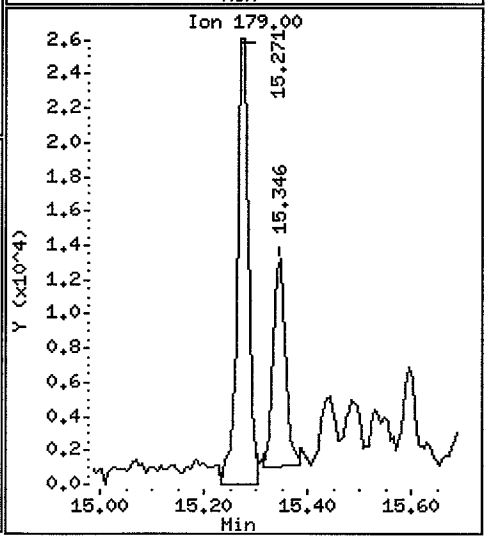












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

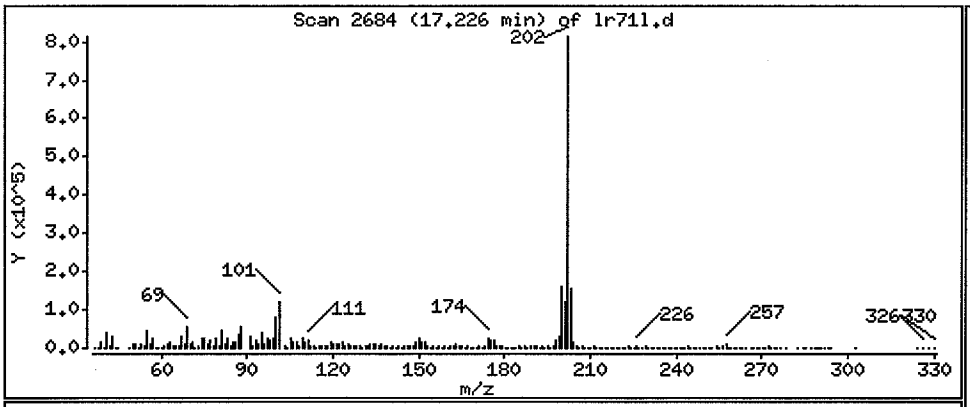
Client ID: AN-SS-09 Instrument: nt6.i

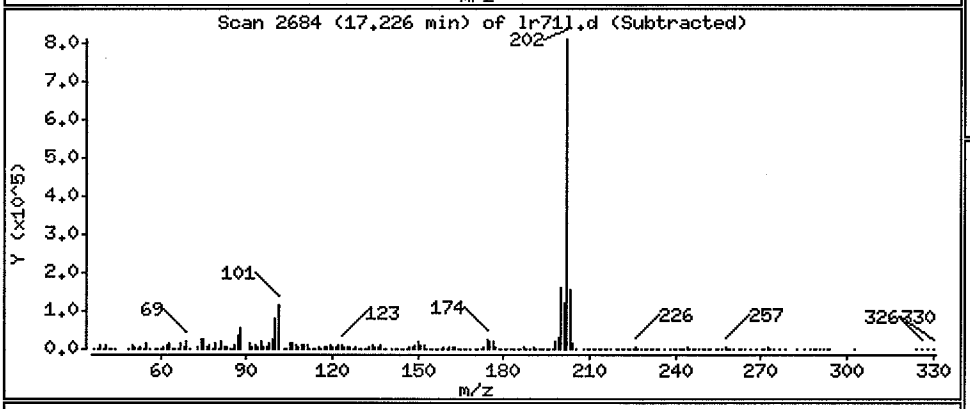
Sample Info: LR71L

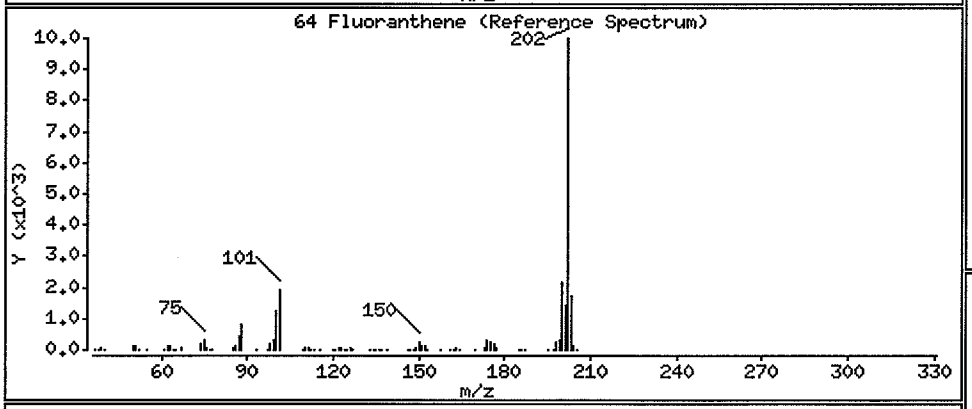
Volume Injected (uL): 1.0 Operator: LJR/VTS

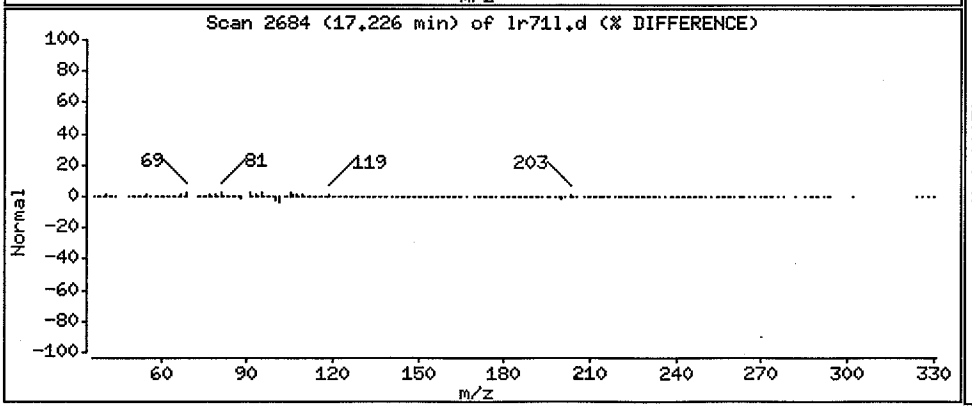
Column phase: ZB-5 Column diameter: 0.32

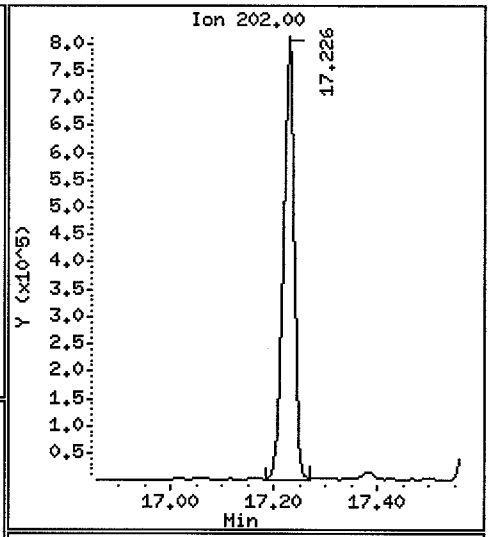
64 Fluoranthene Concentration: 455.1 ug/kg

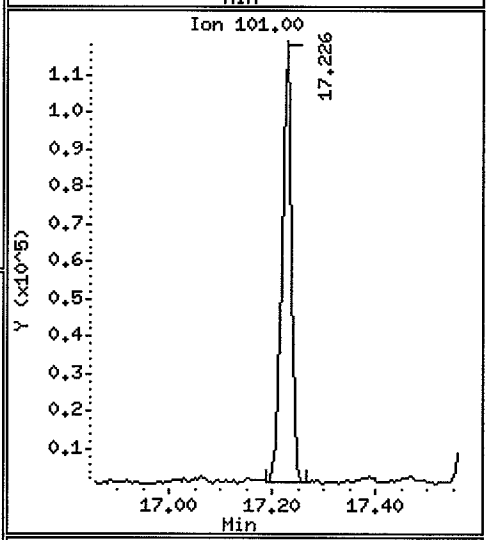


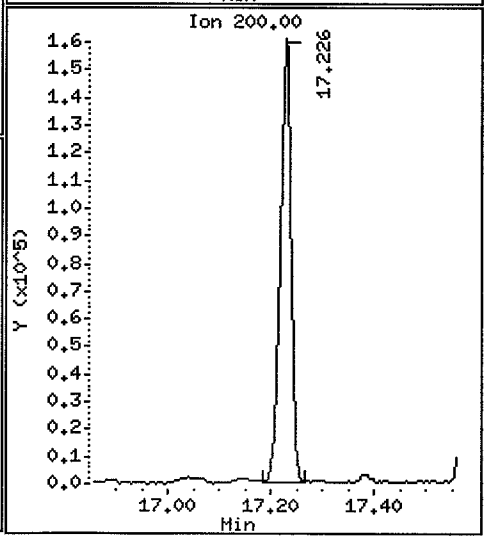












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

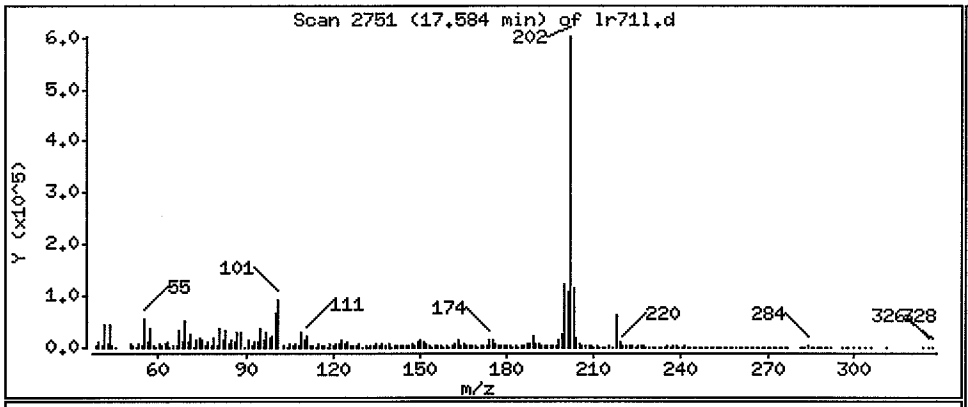
Operator: LJR/VTS

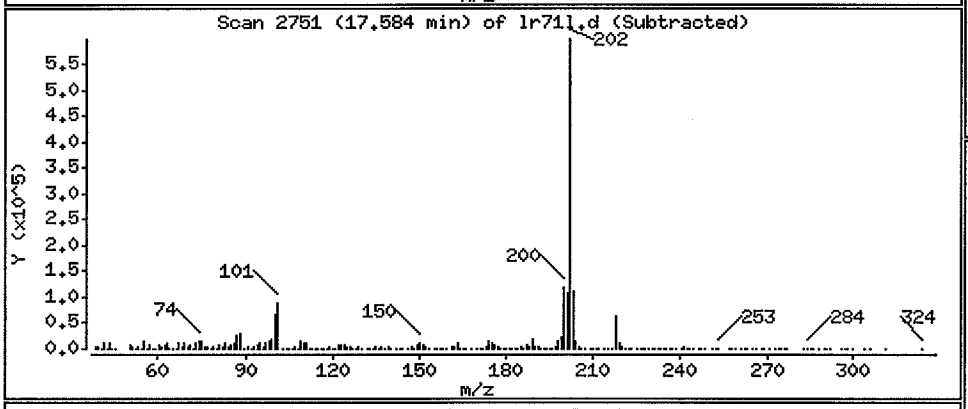
Column phase: ZB-5

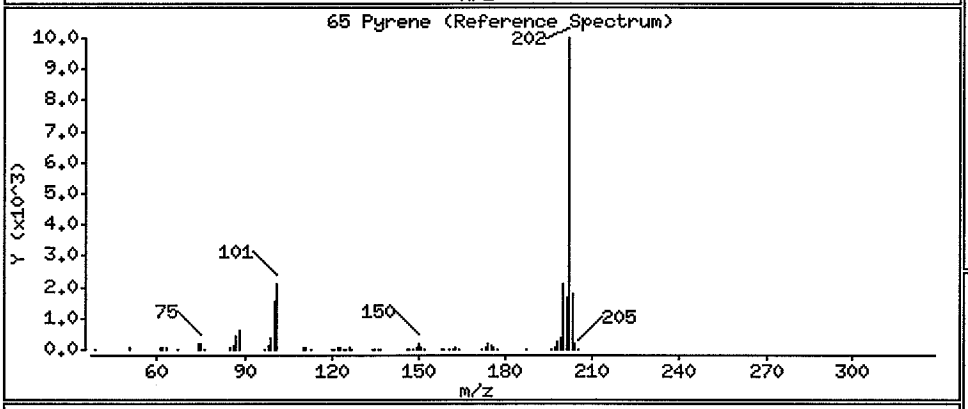
Column diameter: 0.32

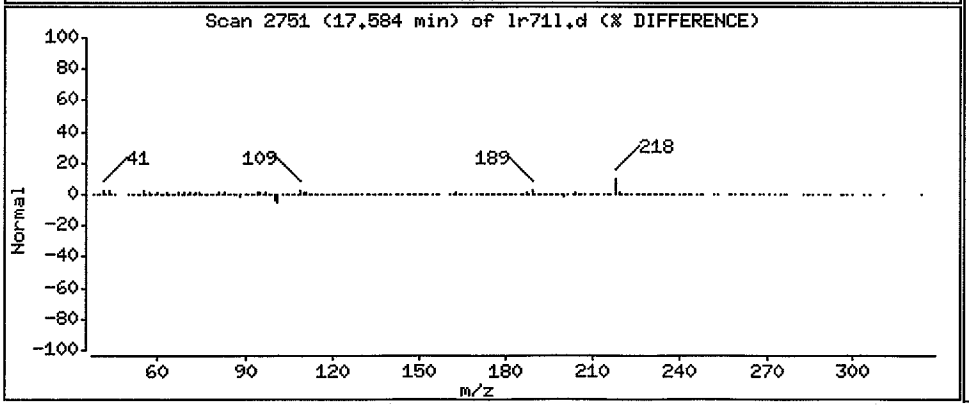
65 Pyrene

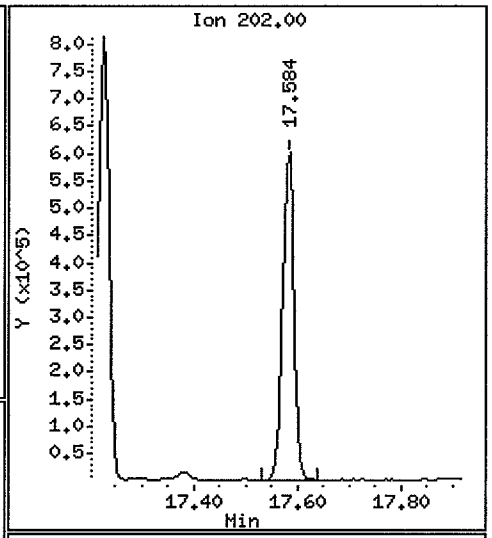
Concentration: 302.6 ug/kg

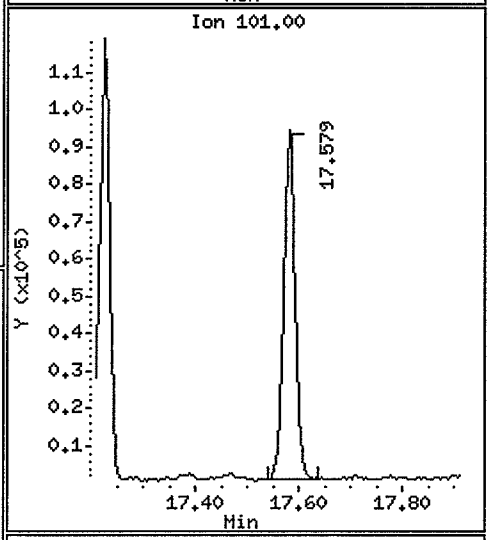


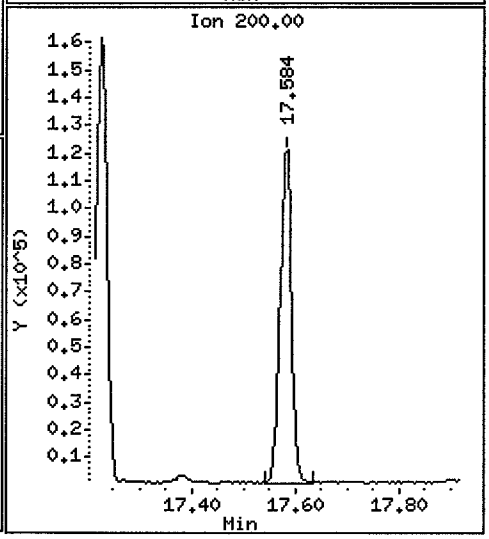












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

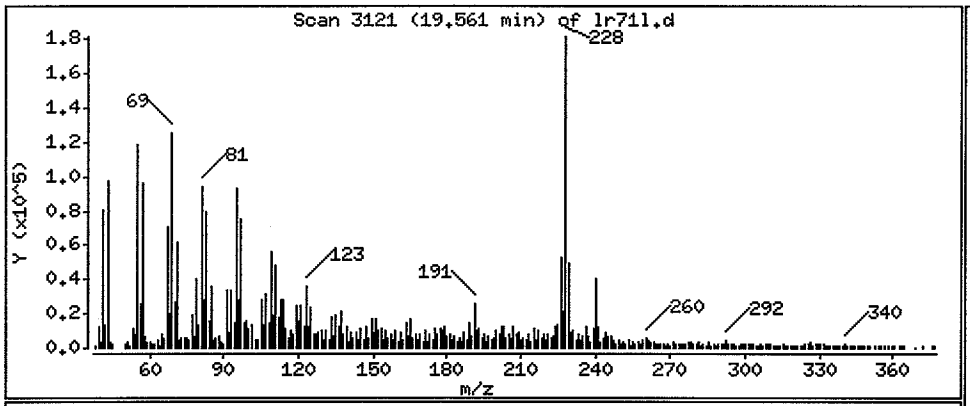
Operator: LJR/VTS

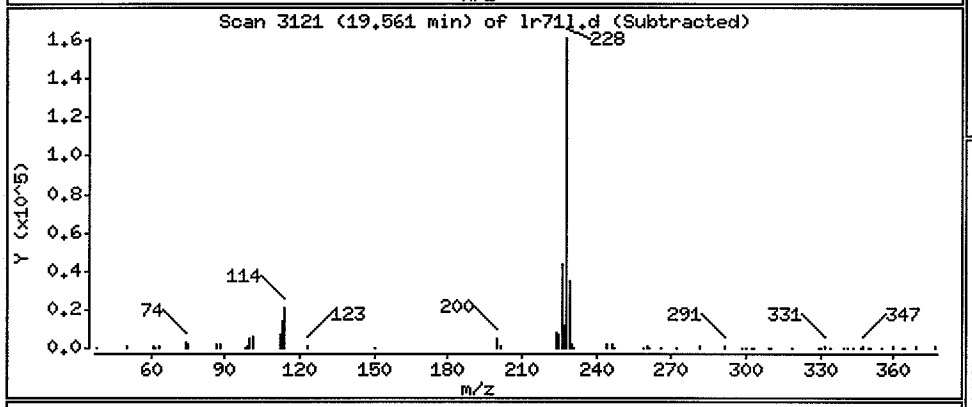
Column phase: ZB-5

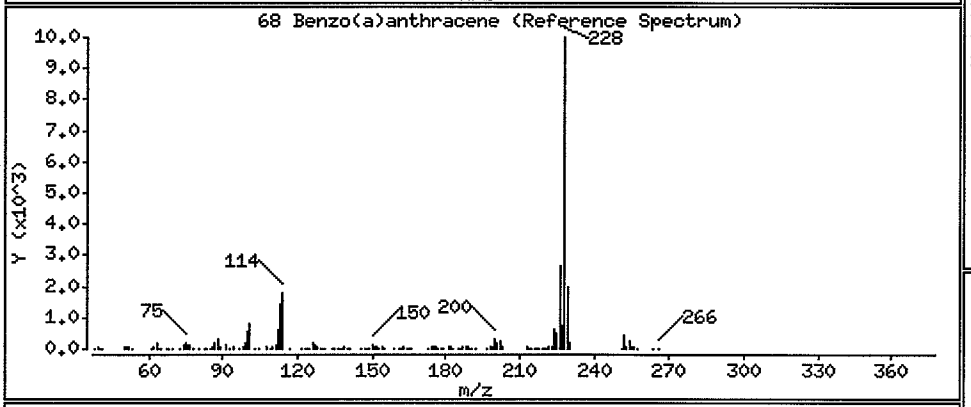
Column diameter: 0.32

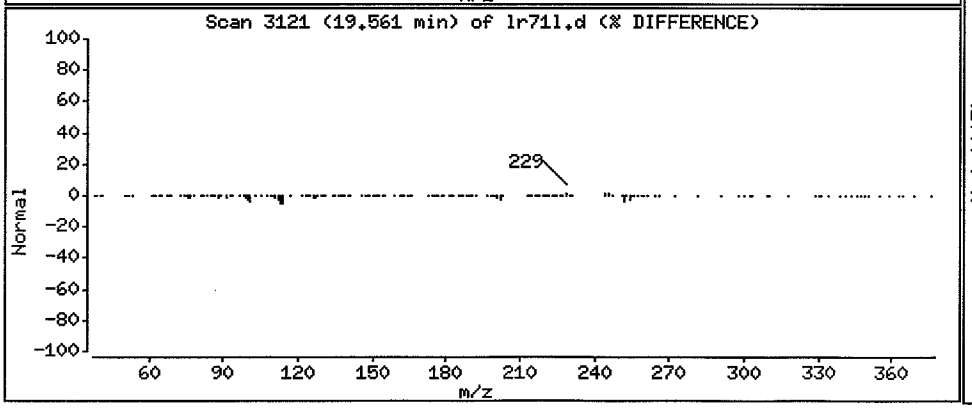
68 Benzo(a)anthracene

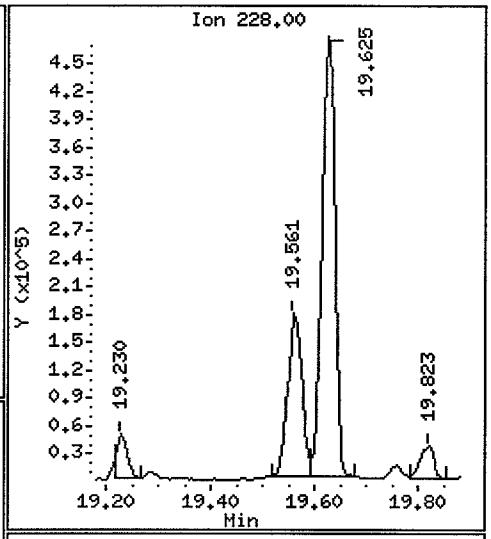
Concentration: 101.2 ug/kg

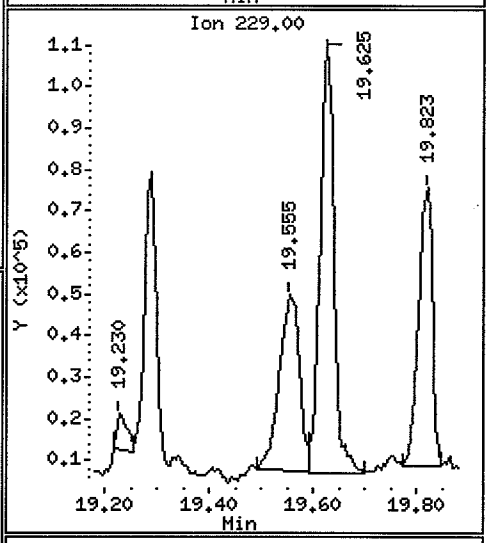


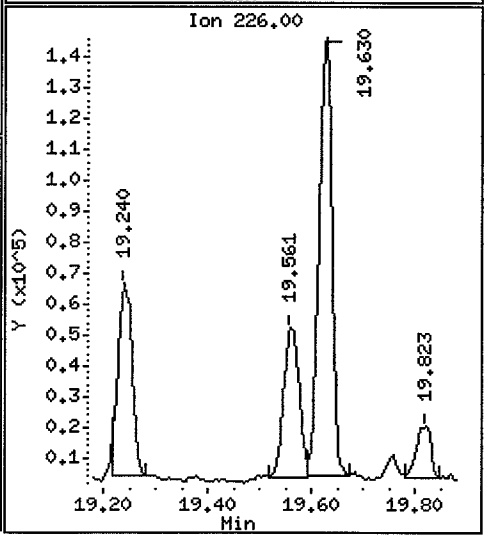












Data File: /chem1/nt6.i/20071018.b/lr71l.d

Date : 18-OCT-2007 21:25

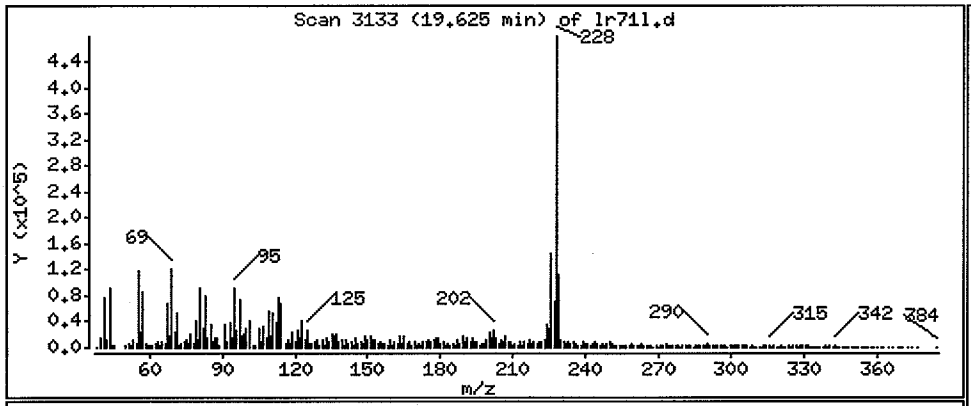
Client ID: AN-SS-09 Instrument: nt6.i

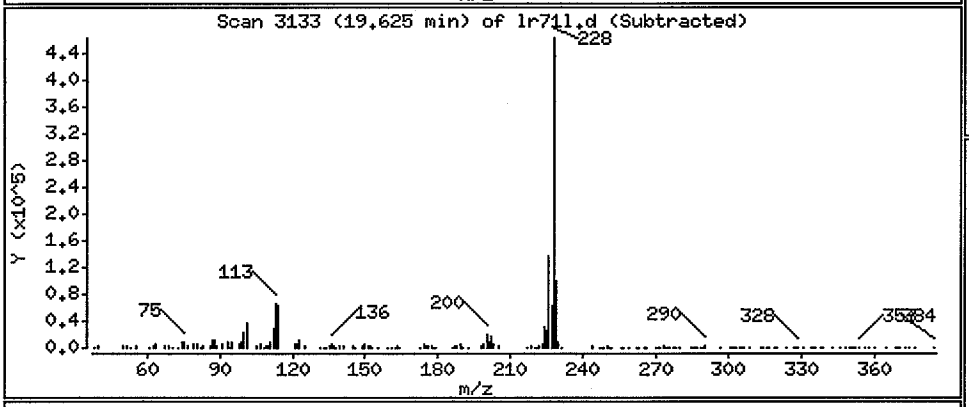
Sample Info: LR71L

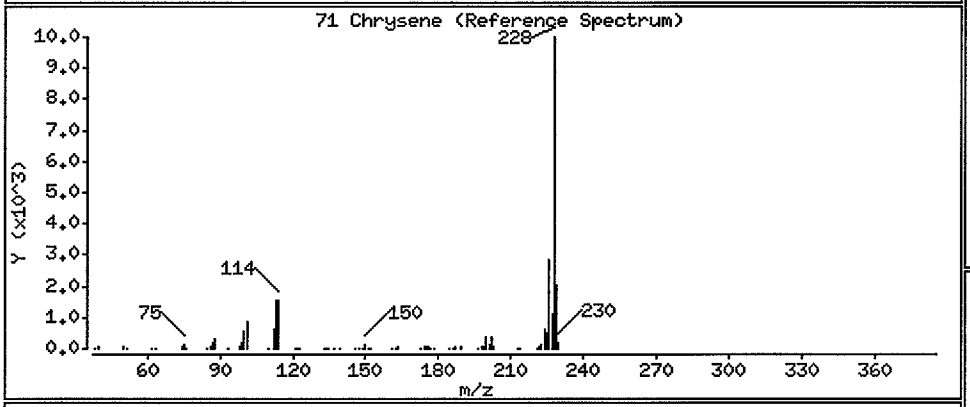
Volume Injected (uL): 1.0 Operator: LJR/VTS

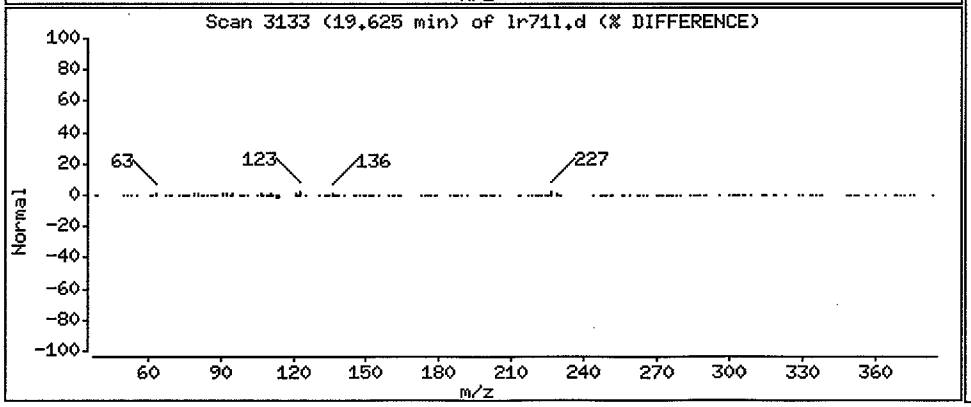
Column phase: ZB-5 Column diameter: 0.32

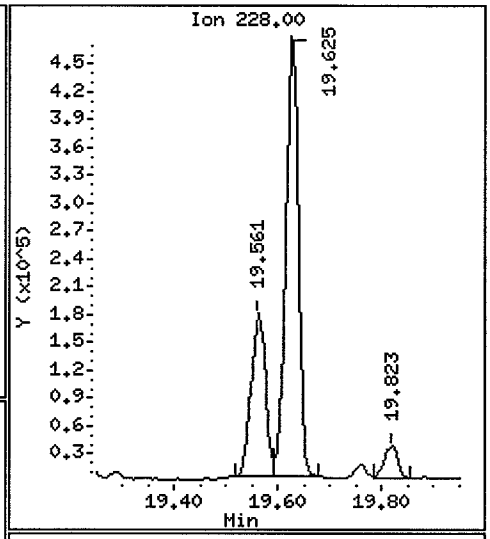
71 Chrysene Concentration: 271.0 ug/kg

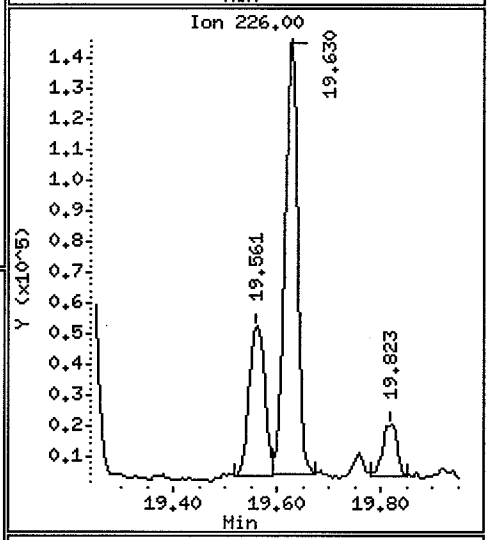


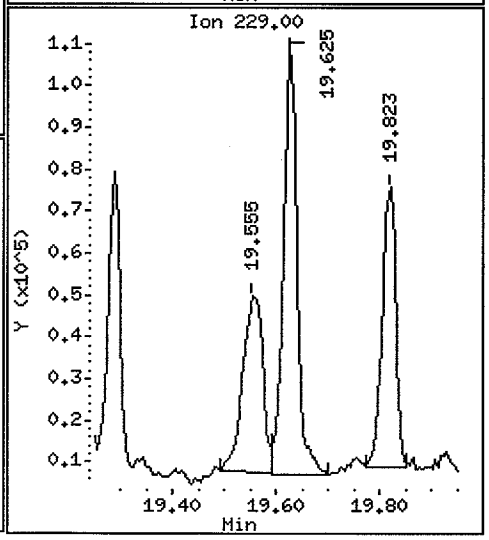












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

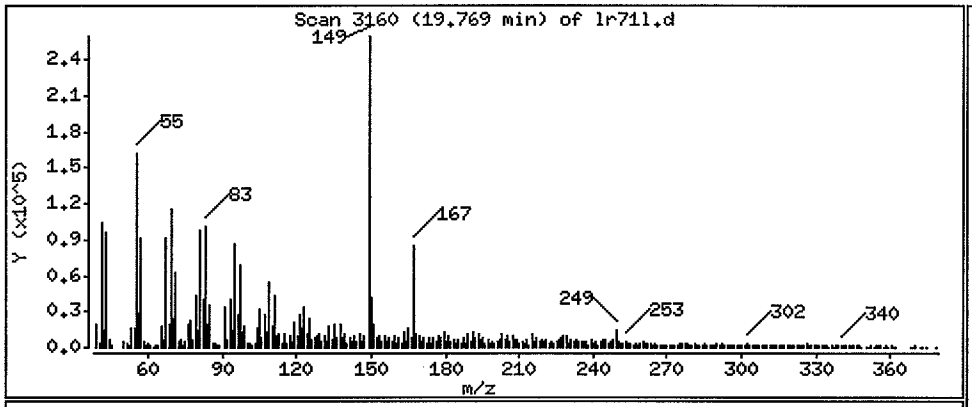
Client ID: AN-SS-09 Instrument: nt6.i

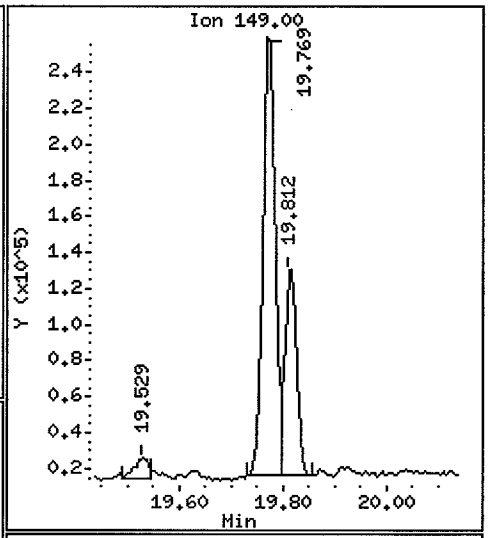
Sample Info: LR71L

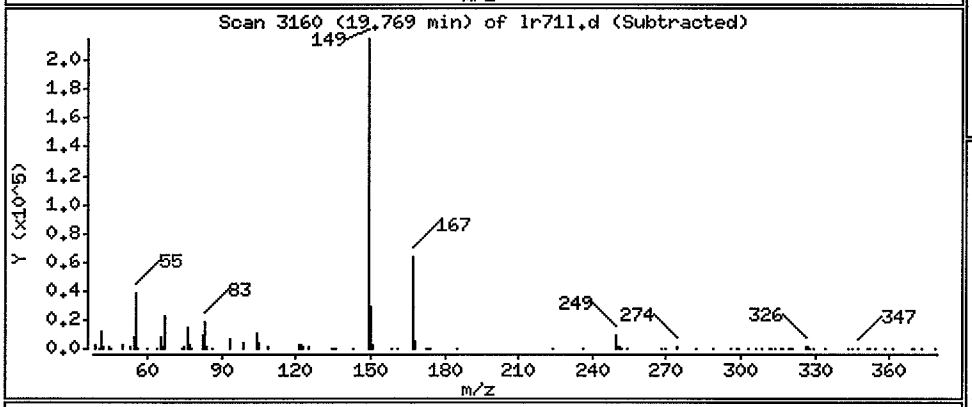
Volume Injected (uL): 1.0 Operator: LJR/VTS

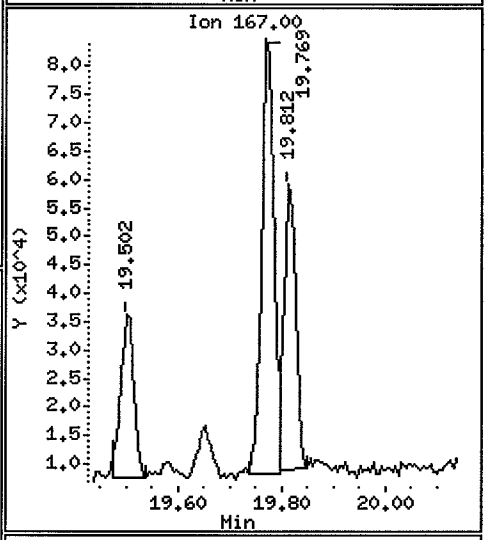
Column phase: ZB-5 Column diameter: 0.32

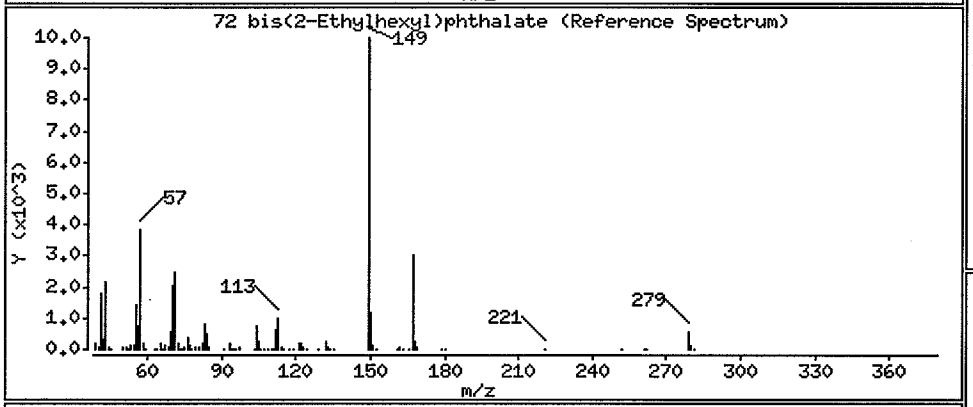
72 bis(2-Ethylhexyl)phthalate Concentration: 214.7 ug/kg

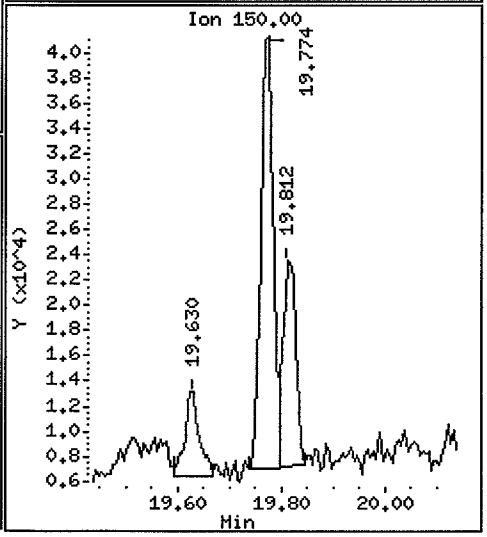


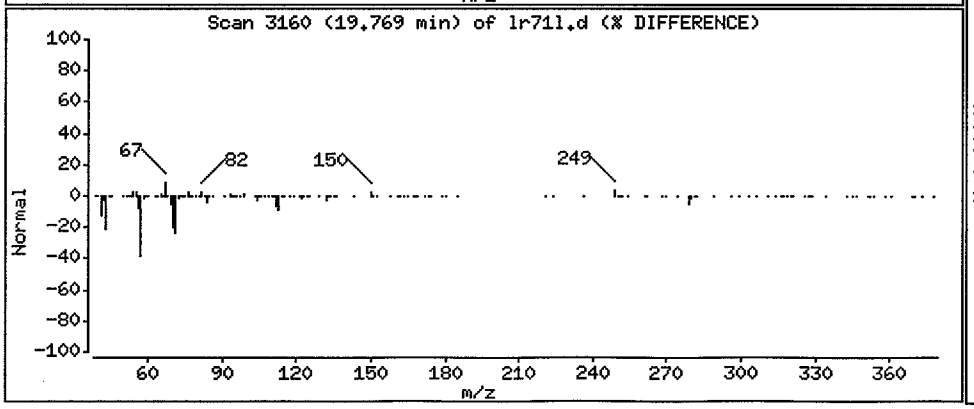












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

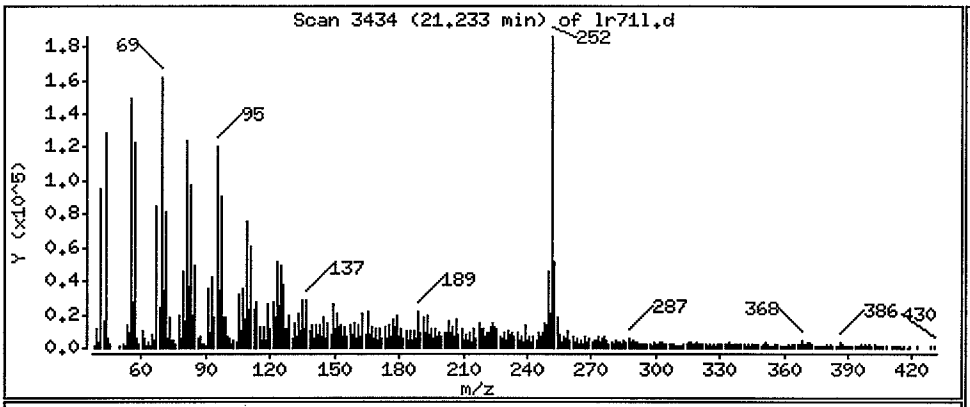
Operator: LJR/VTS

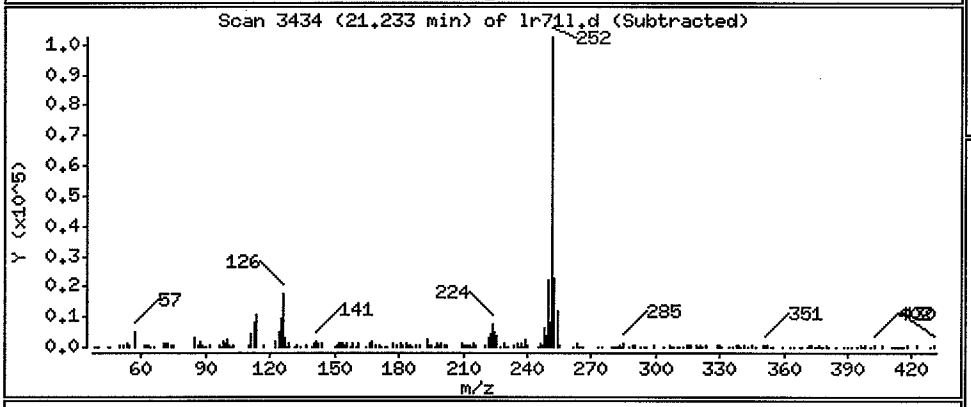
Column phase: ZB-5

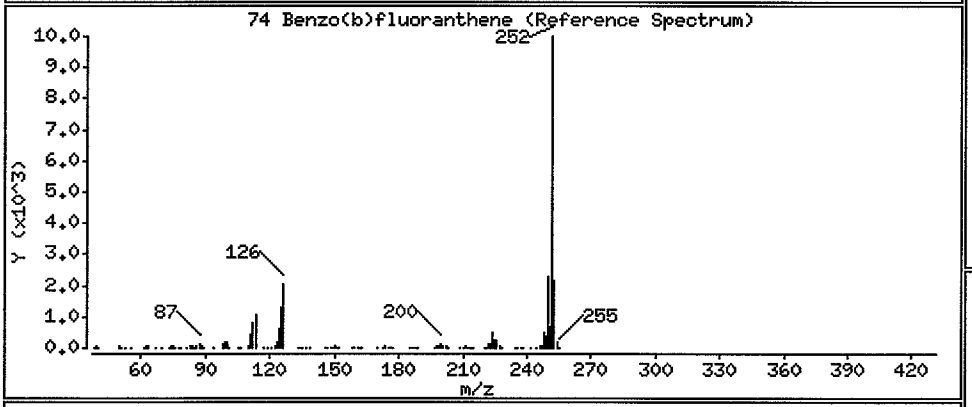
Column diameter: 0.32

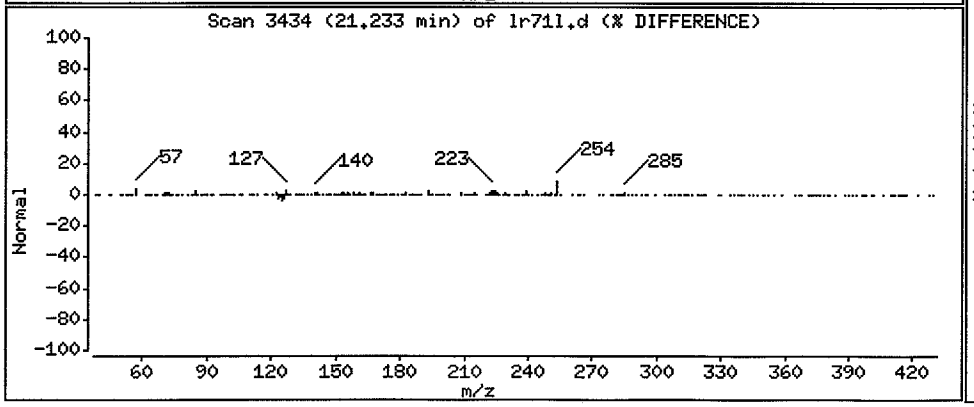
74 Benzo(b)fluoranthene

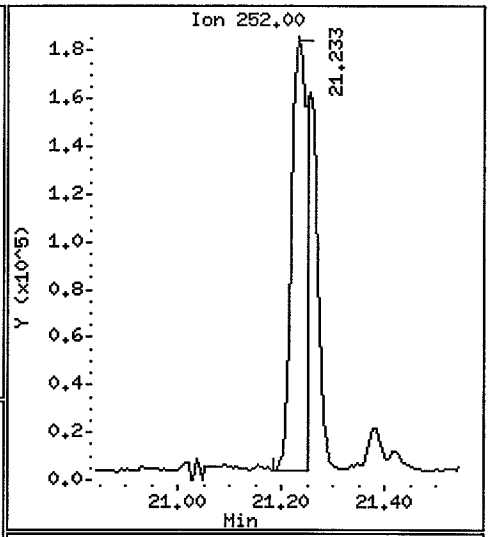
Concentration: 194.3 ug/kg

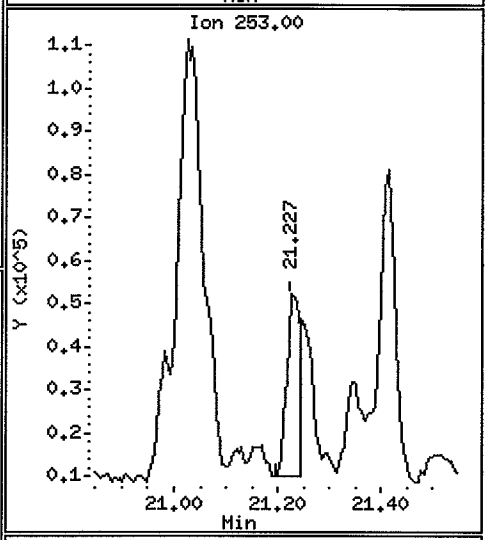


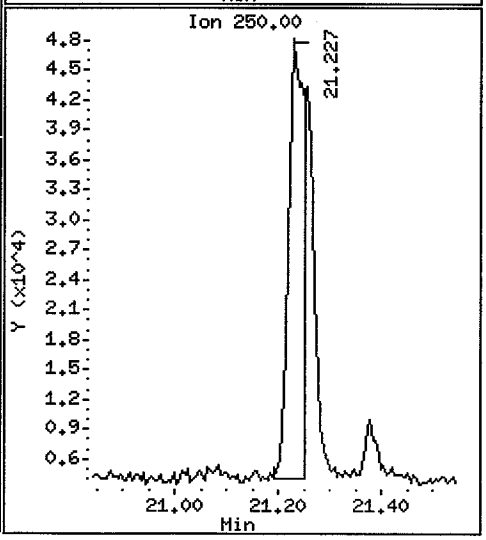












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

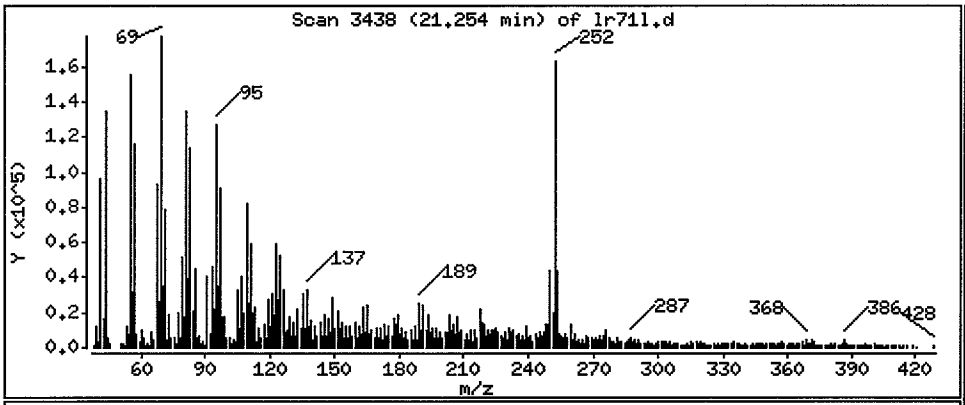
Operator: LJR/VTS

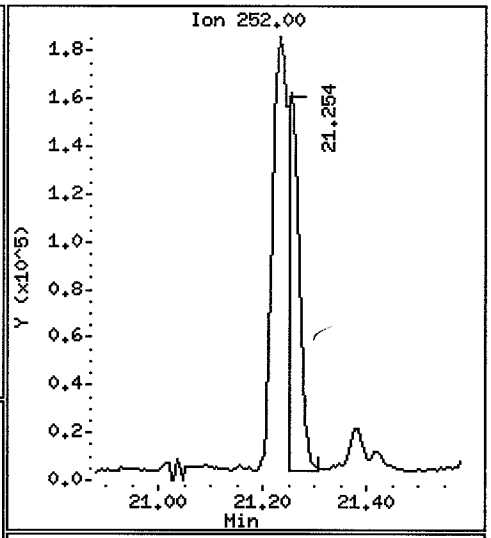
Column phase: ZB-5

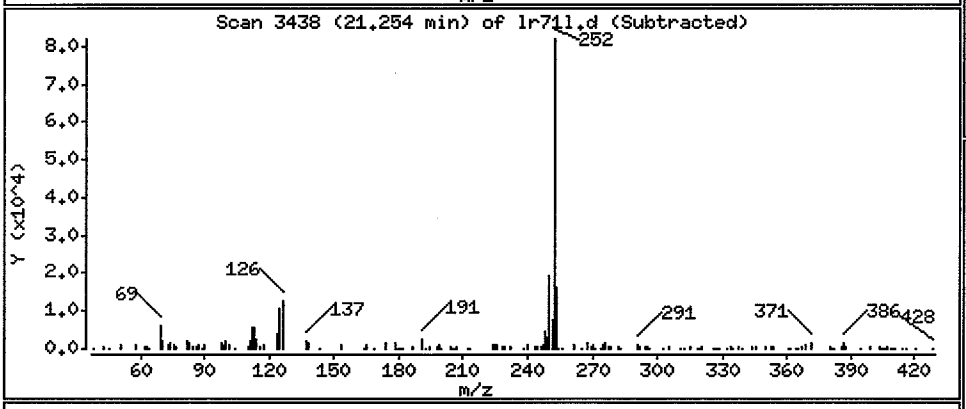
Column diameter: 0.32

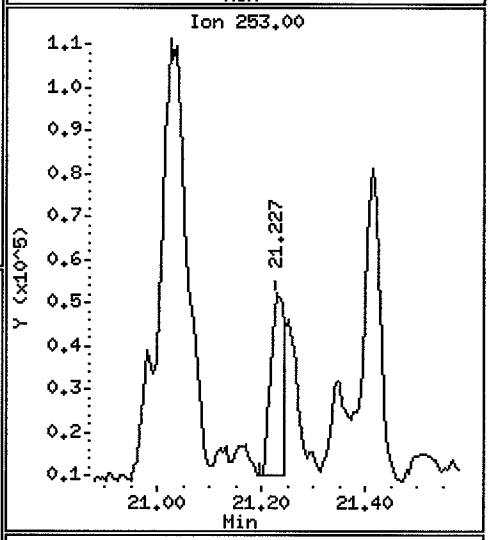
75 Benzo(k)fluoranthene

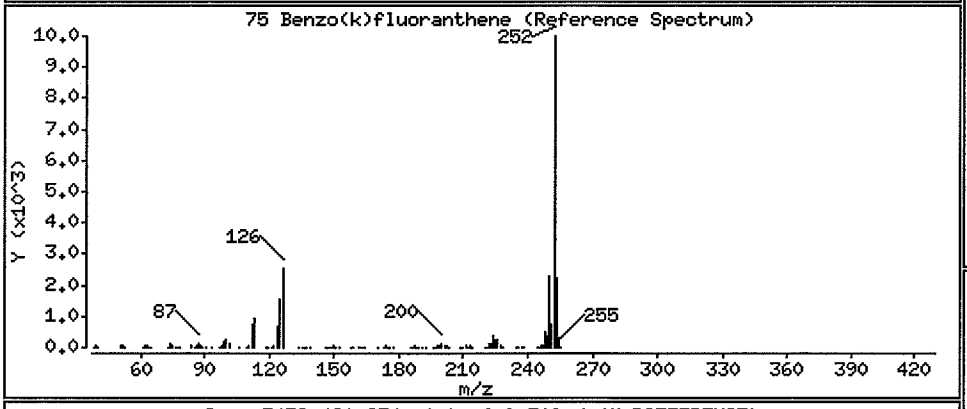
Concentration: 116.9 ug/kg

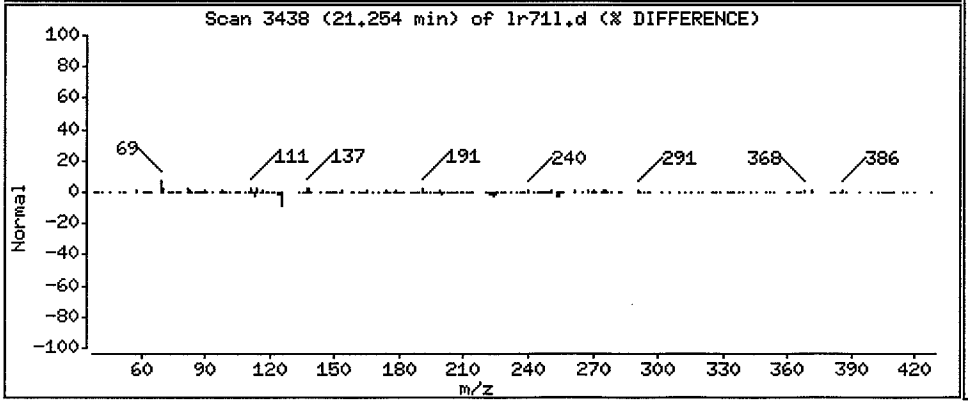


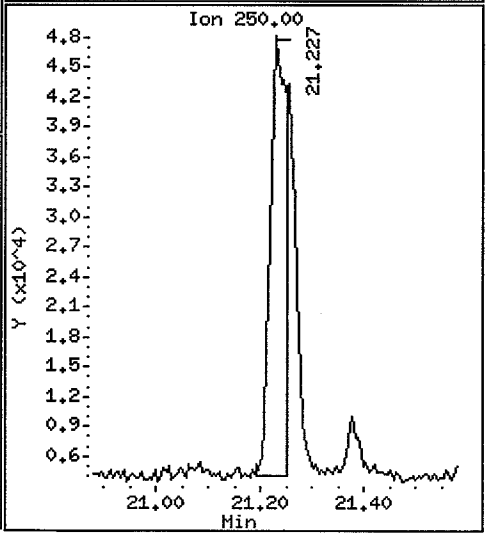












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

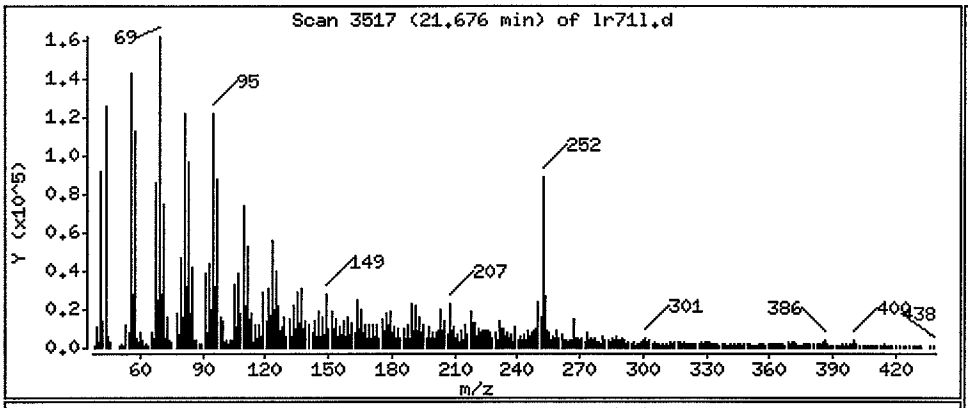
Client ID: AN-SS-09 Instrument: nt6.i

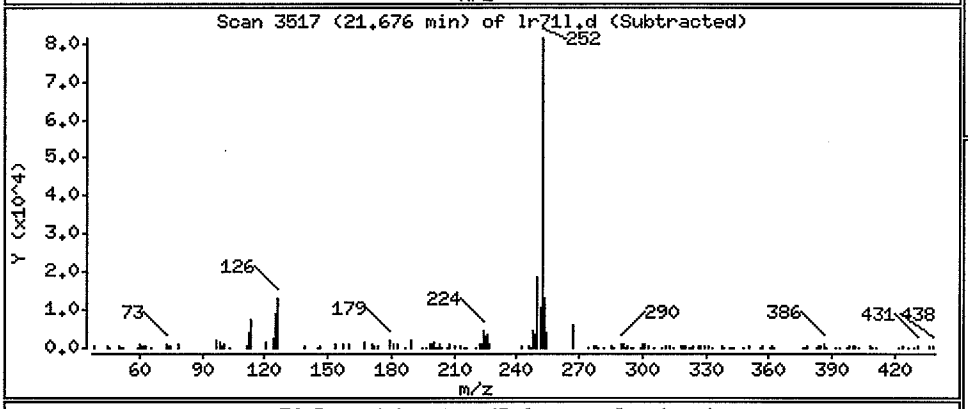
Sample Info: LR71L

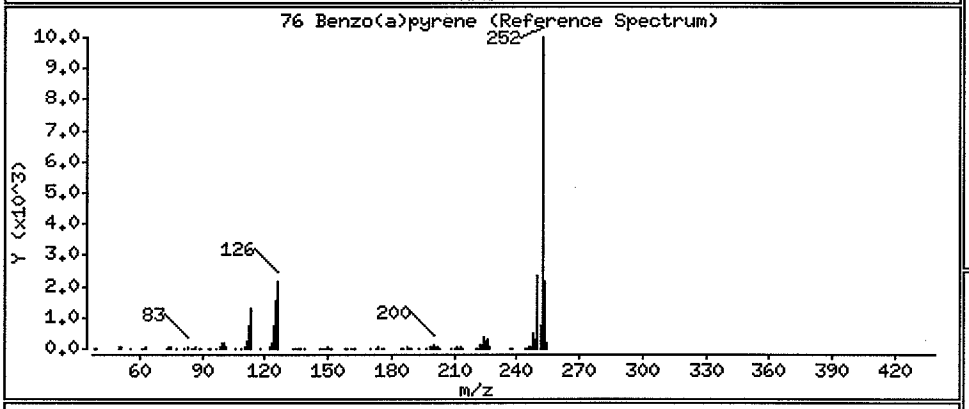
Volume Injected (uL): 1.0 Operator: LJR/VTS

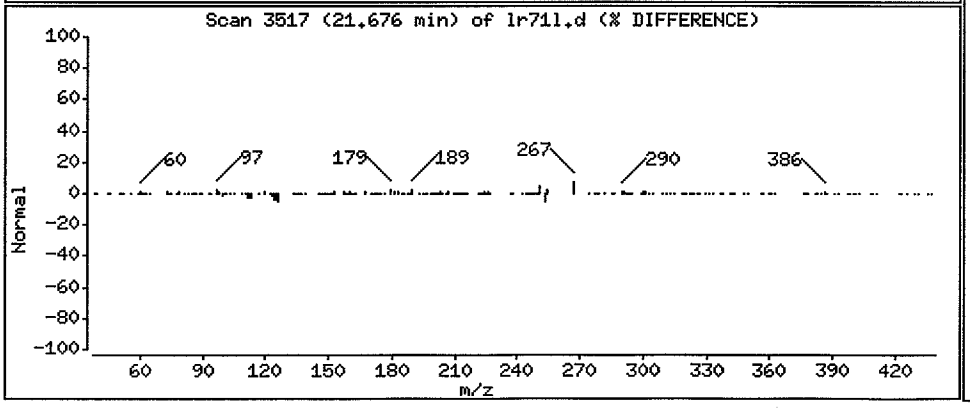
Column phase: ZB-5 Column diameter: 0.32

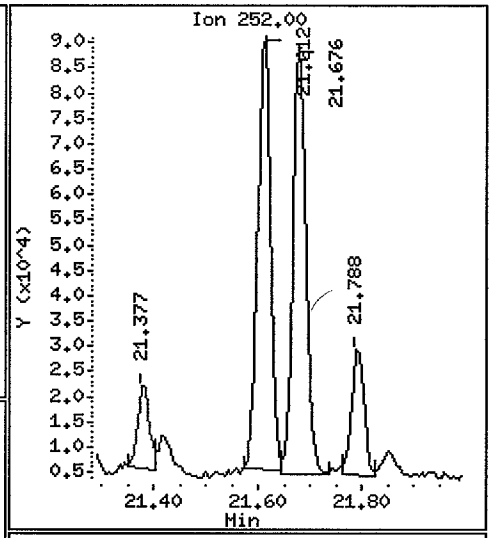
76 Benzo(a)pyrene Concentration: 82.59 ug/kg

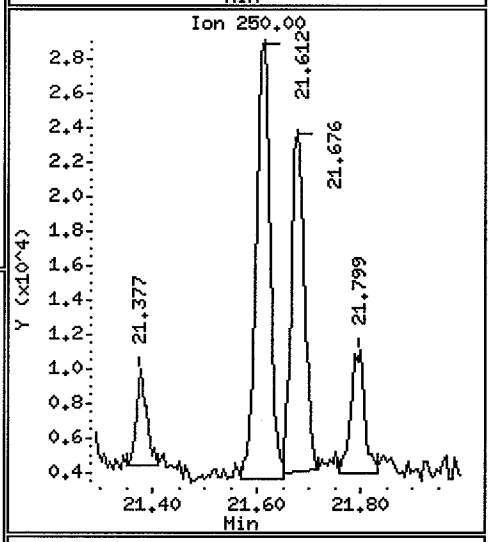


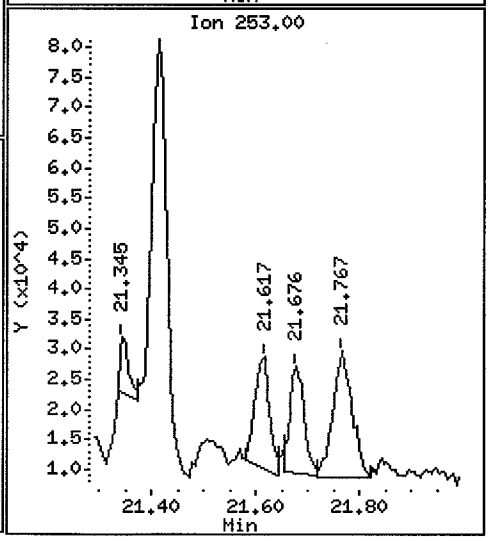












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

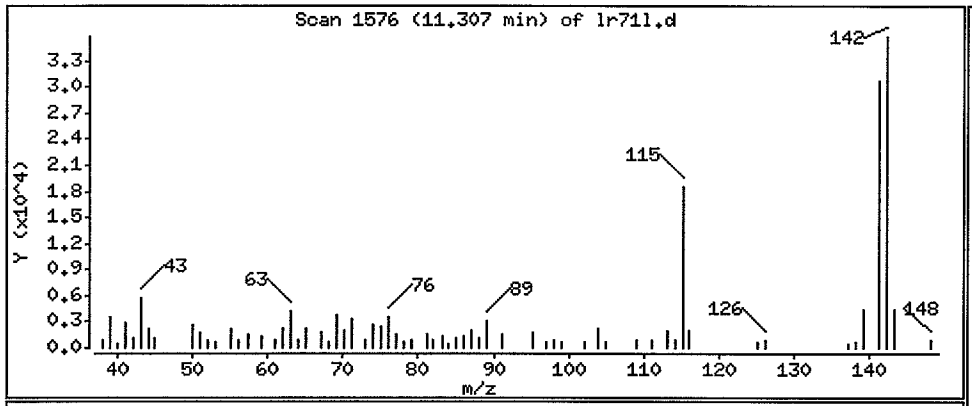
Operator: LJR/VTS

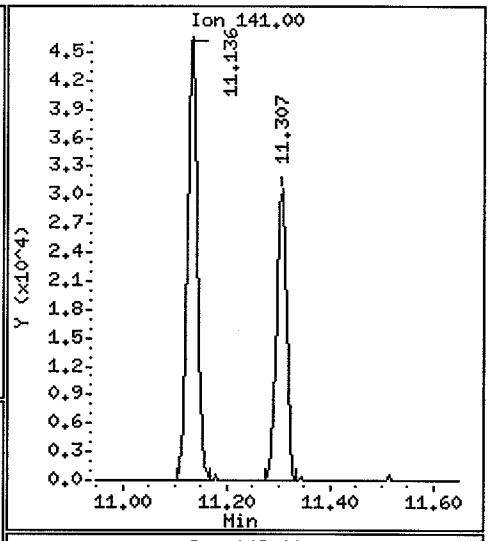
Column phase: ZB-5

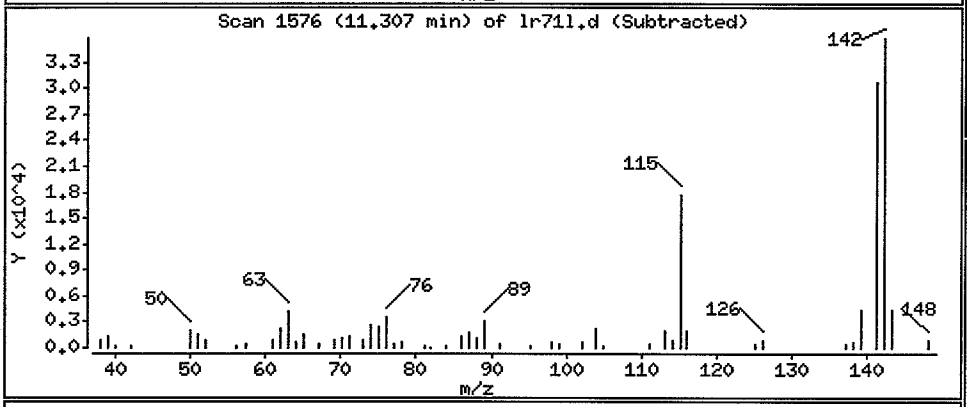
Column diameter: 0.32

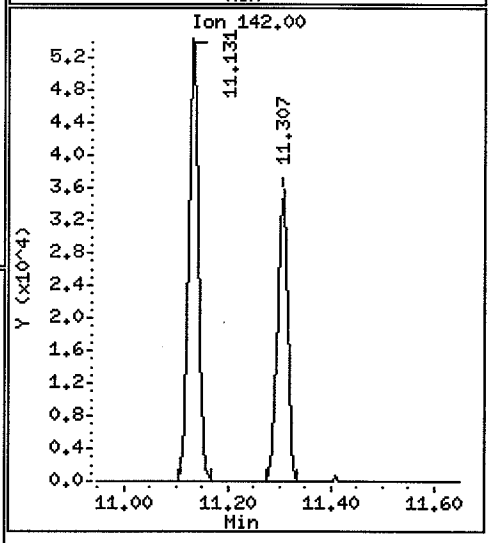
105 1-methylnaphthalene

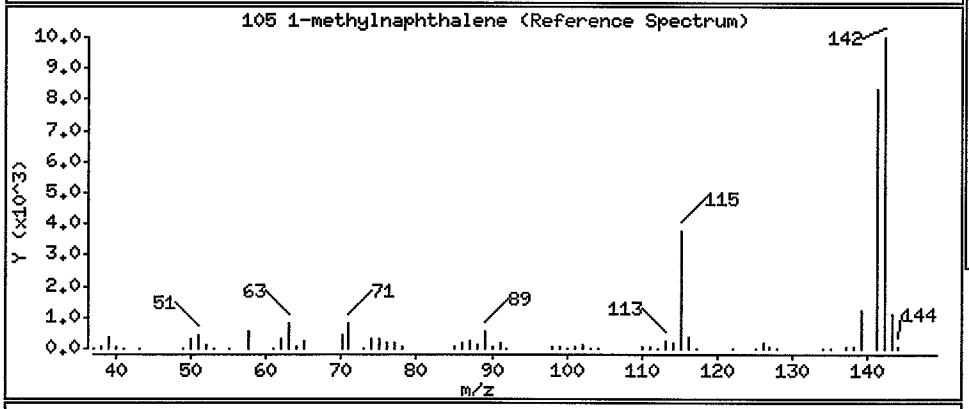
Concentration: 42.53 ug/kg

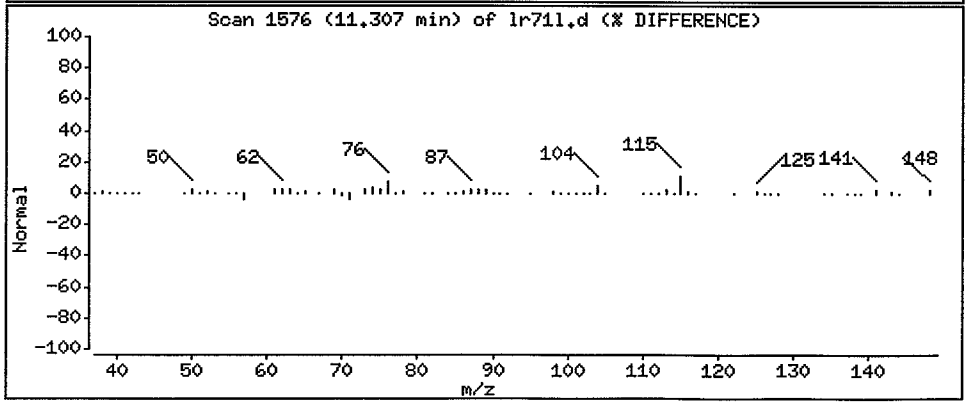












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

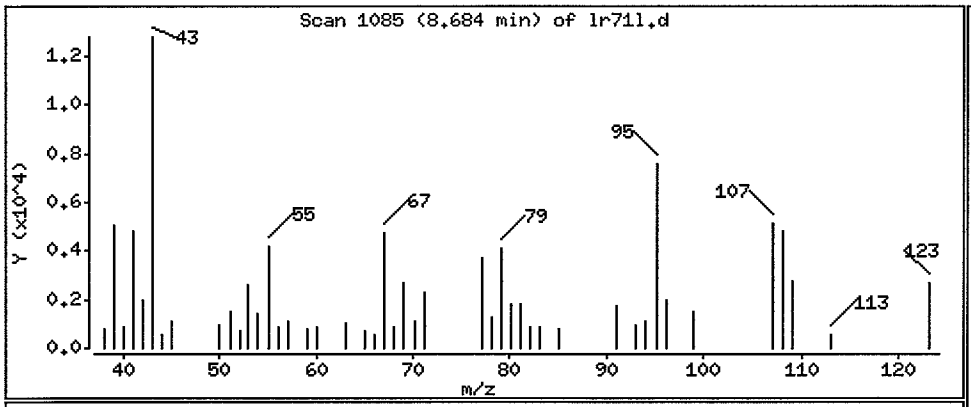
Operator: LJR/VTS

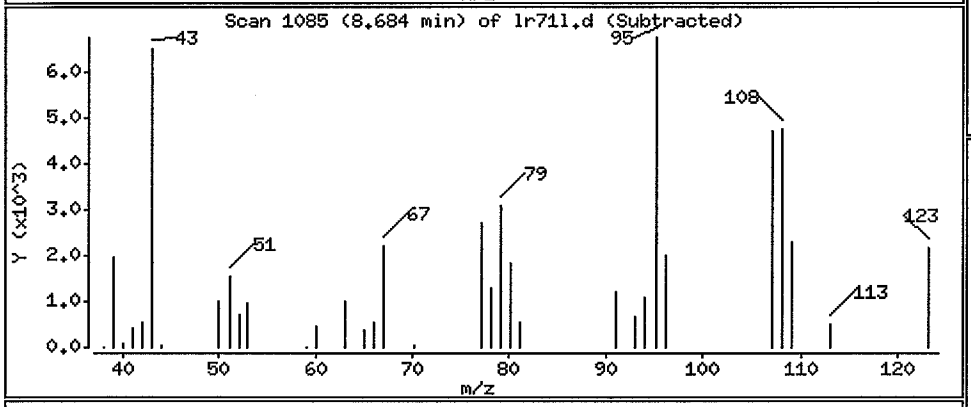
Column phase: ZB-5

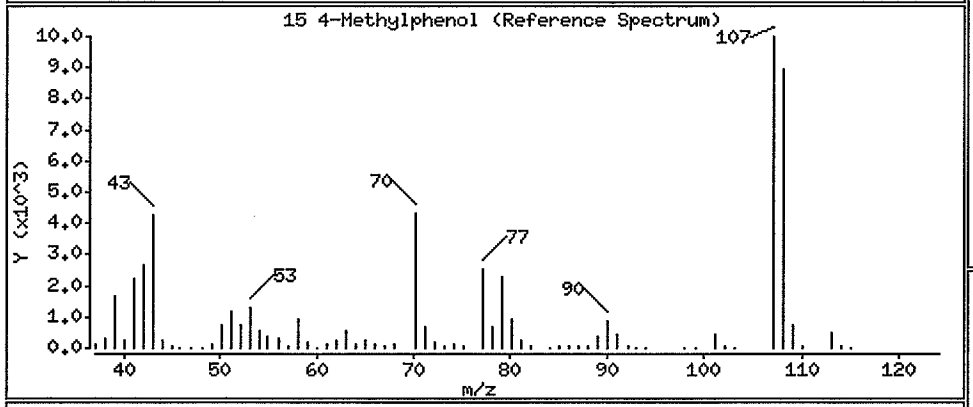
Column diameter: 0.32

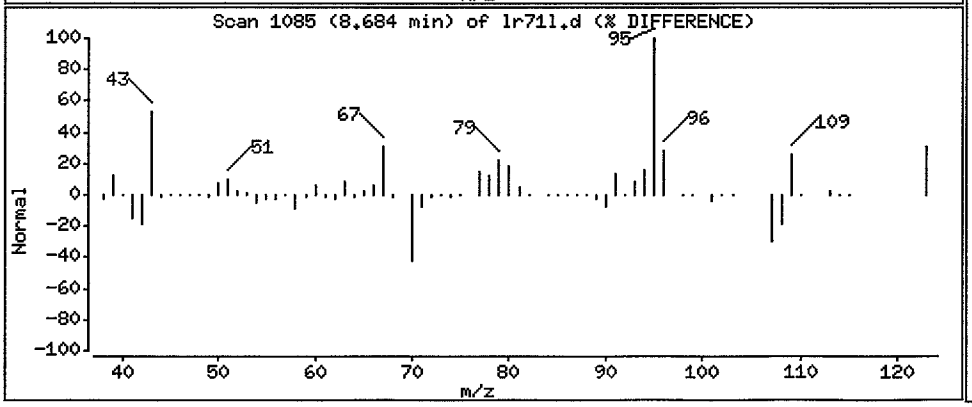
15 4-Methylphenol

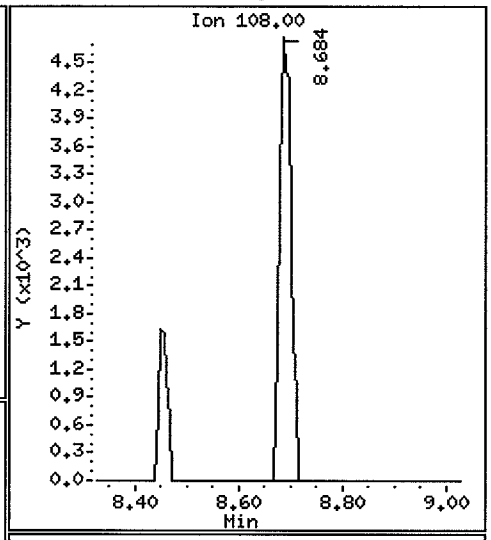
Concentration: 10.85 ug/kg

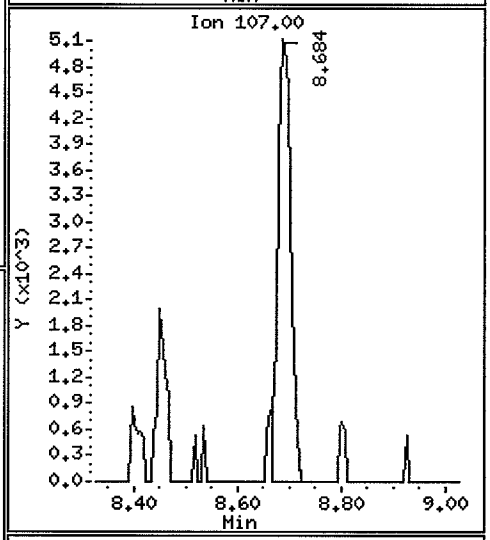


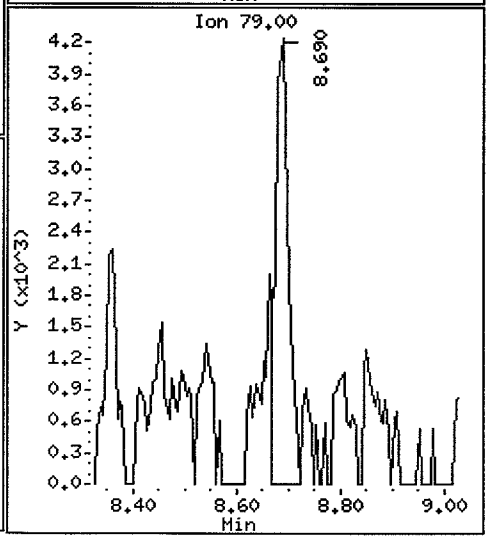












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

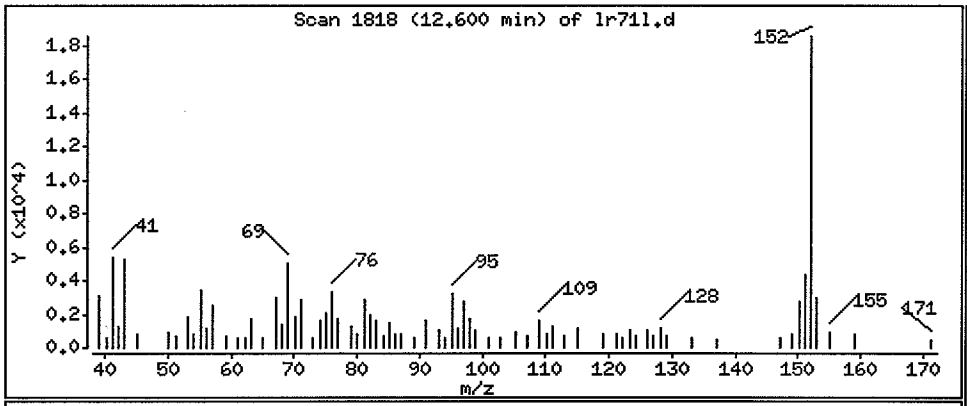
Operator: LJR/VTS

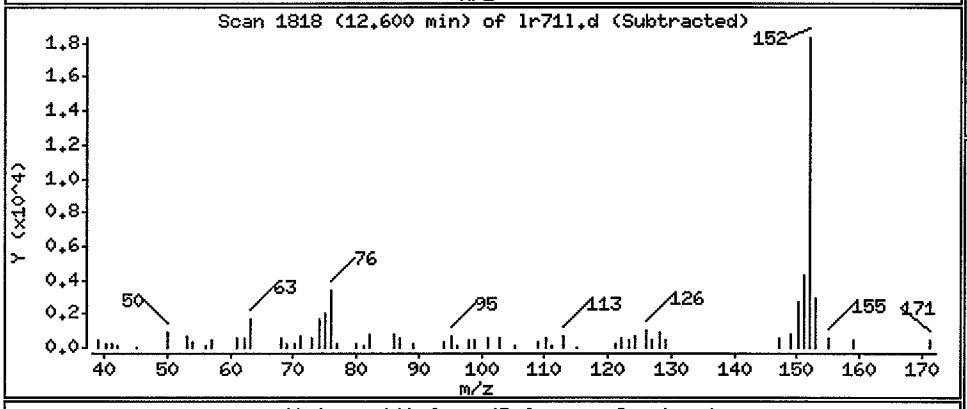
Column phase: ZB-5

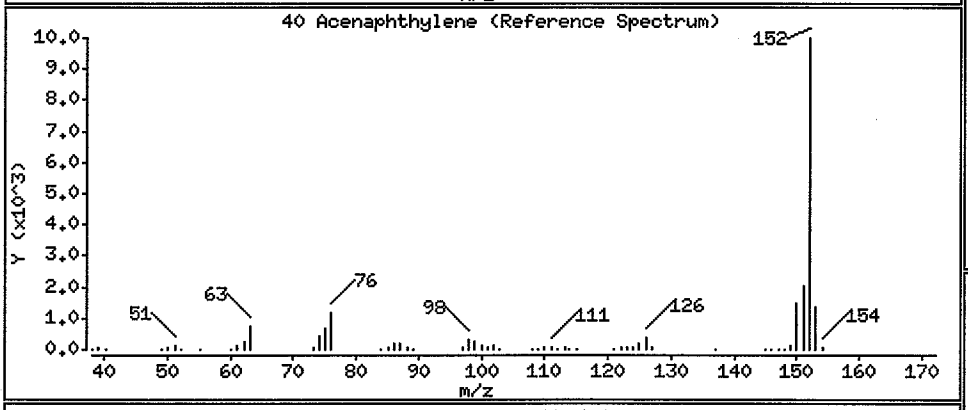
Column diameter: 0.32

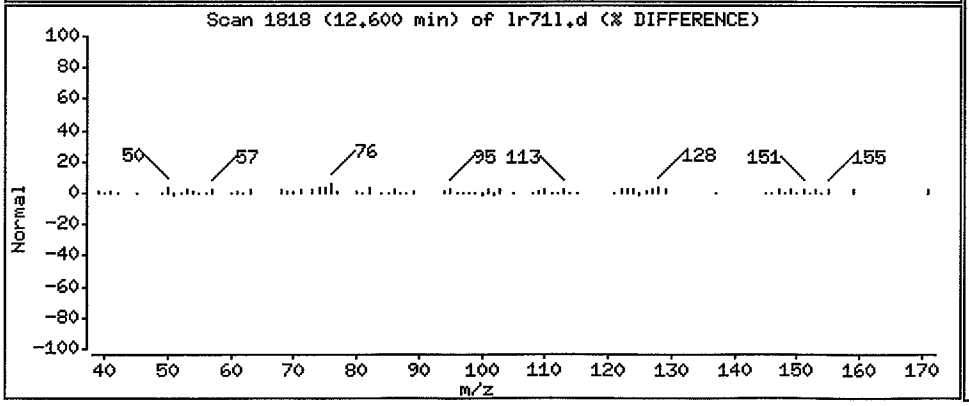
40 Acenaphthylene

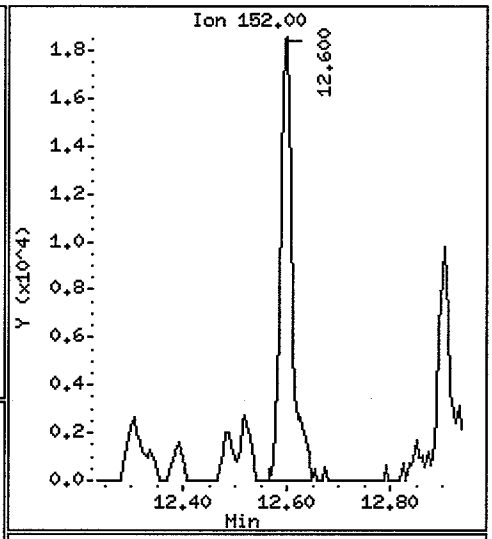
Concentration: 14.32 ug/kg

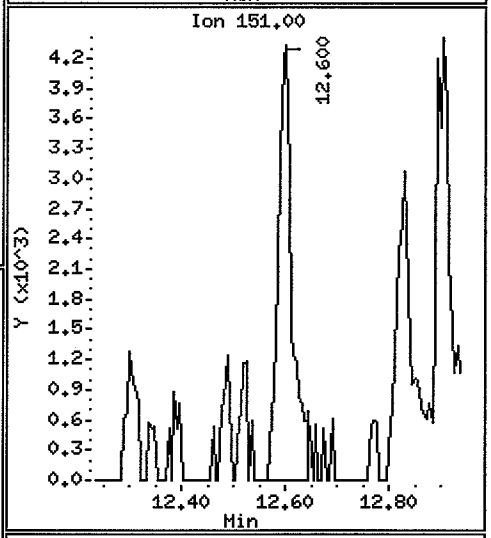


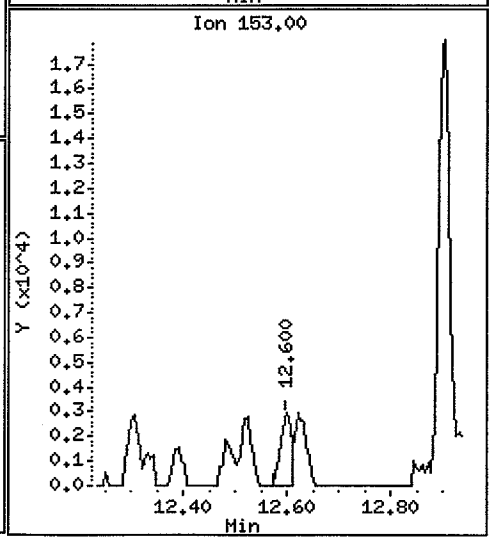












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

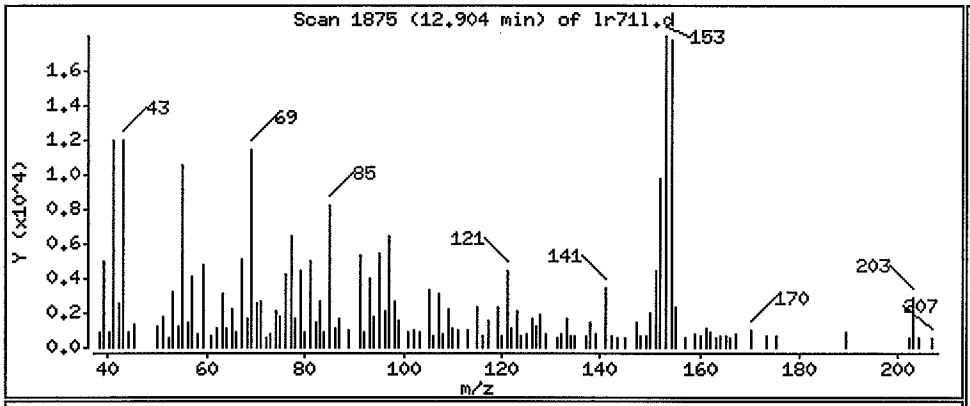
Operator: LJR/VTS

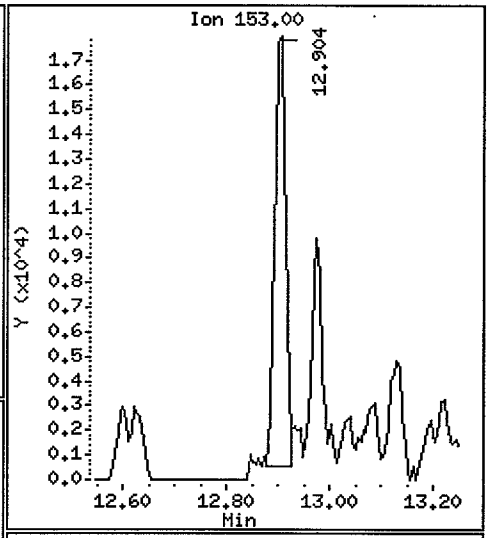
Column phase: ZB-5

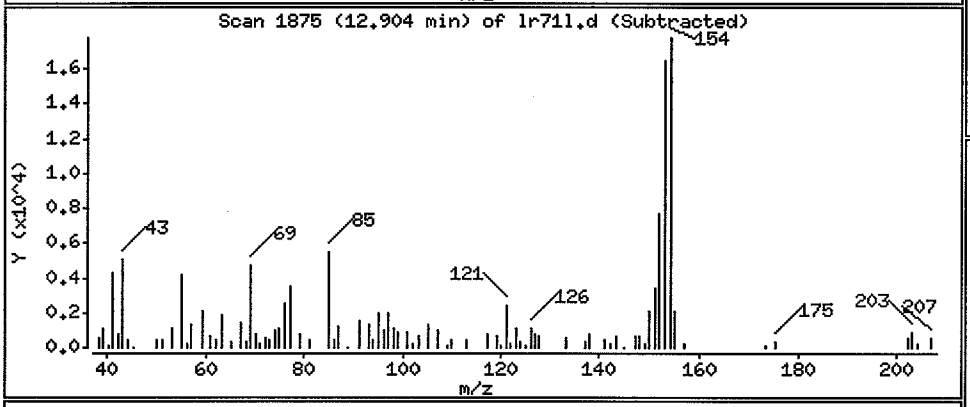
Column diameter: 0.32

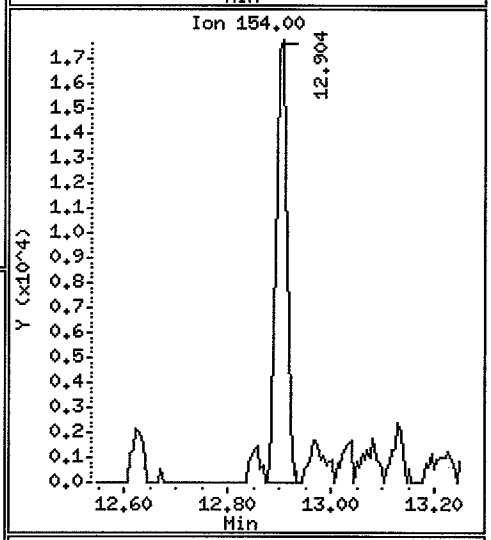
44 Acenaphthene

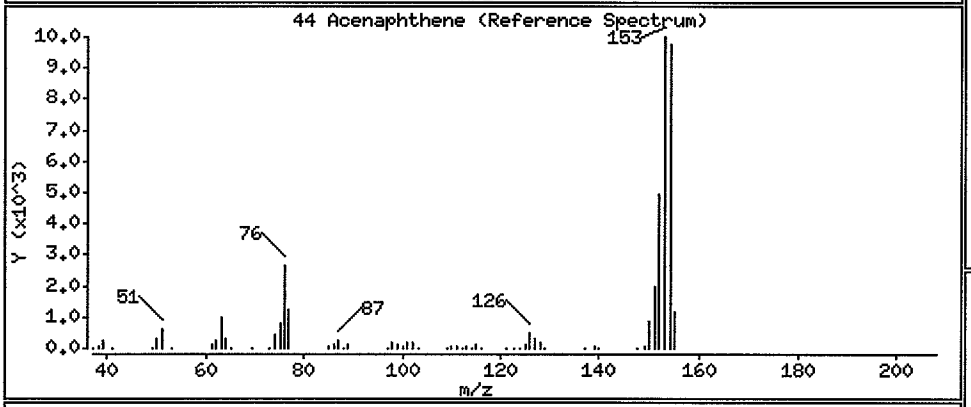
Concentration: 19.39 ug/kg

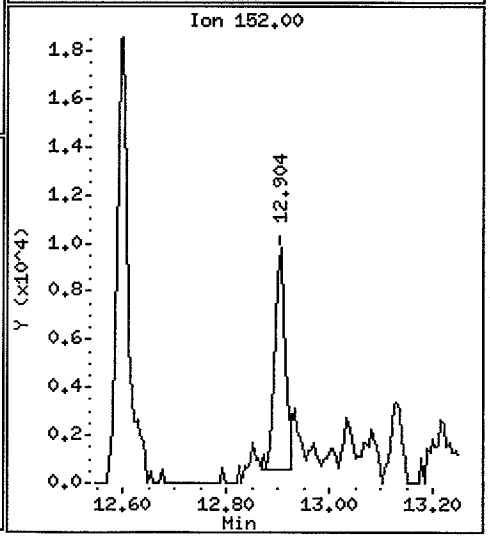


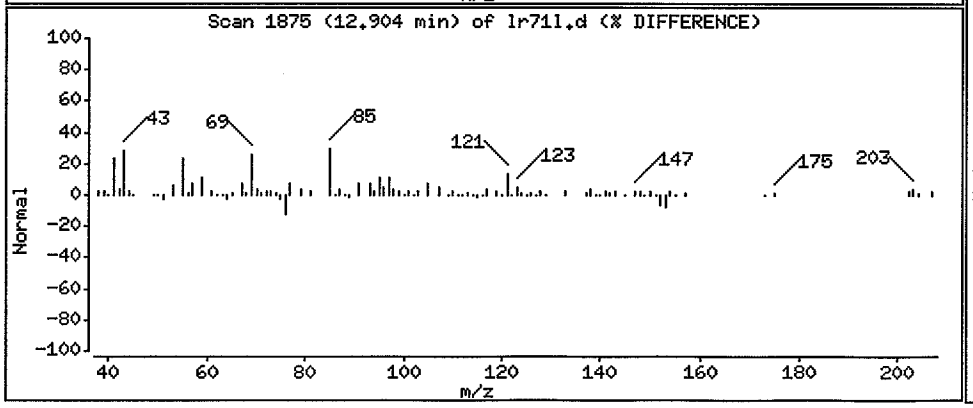












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

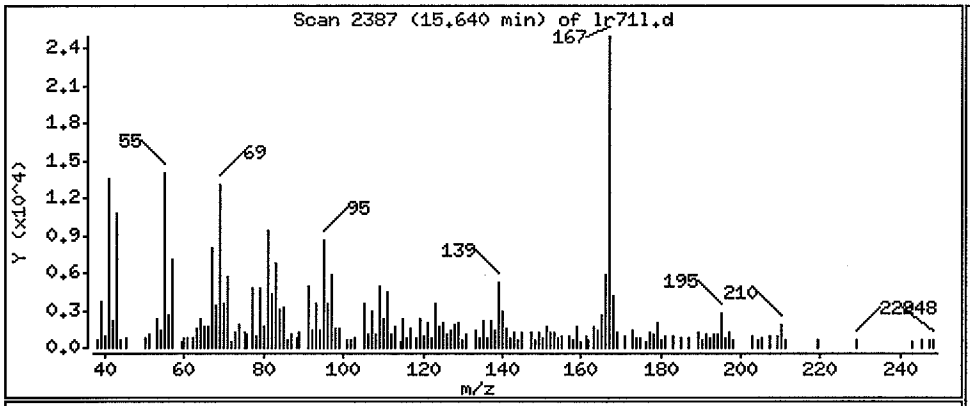
Operator: LJR/VTS

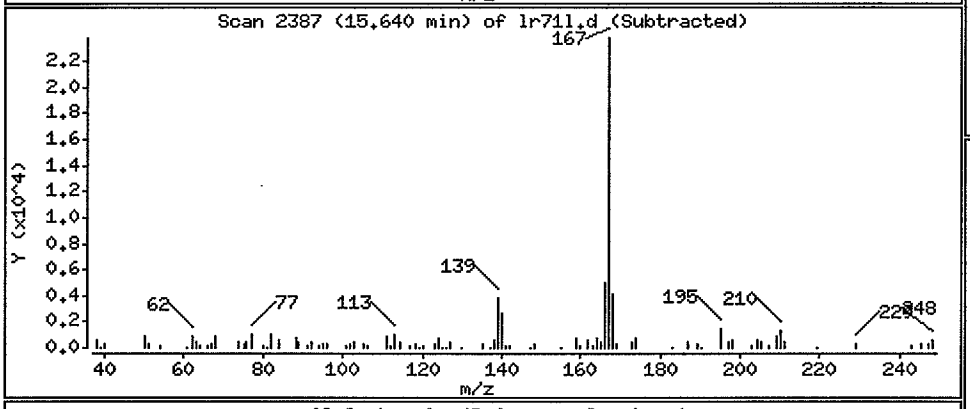
Column phase: ZB-5

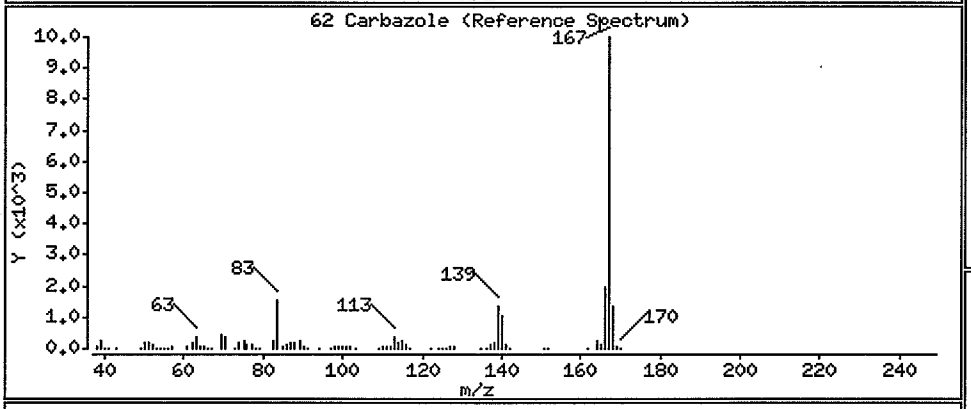
Column diameter: 0.32

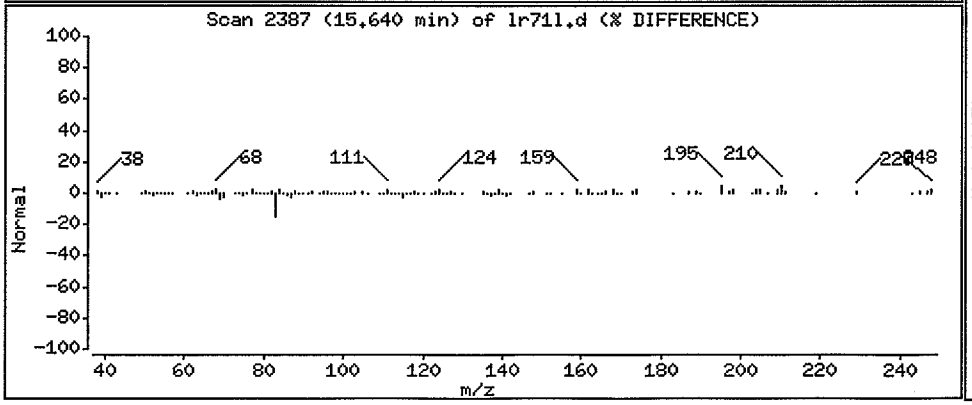
62 Carbazole

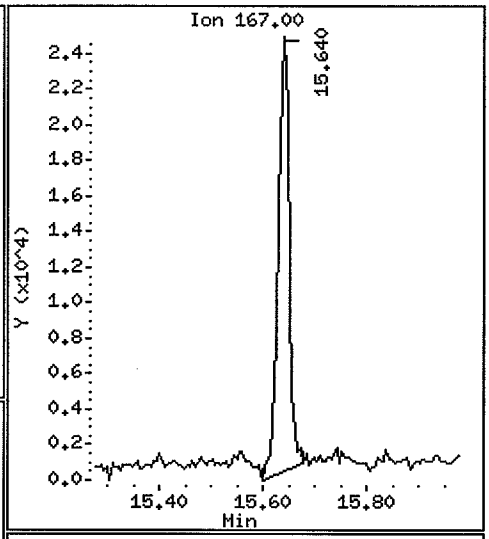
Concentration: 17.62 ug/kg

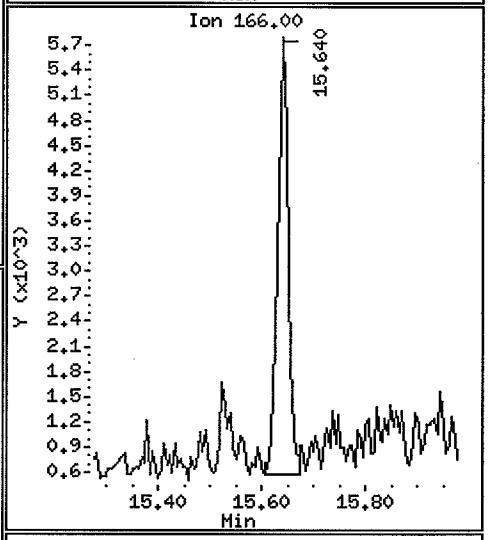


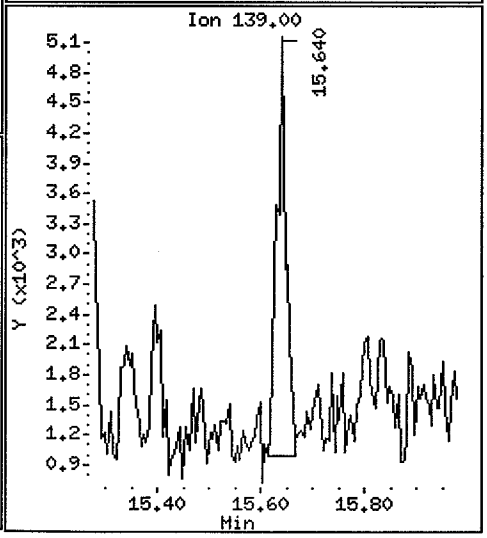












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

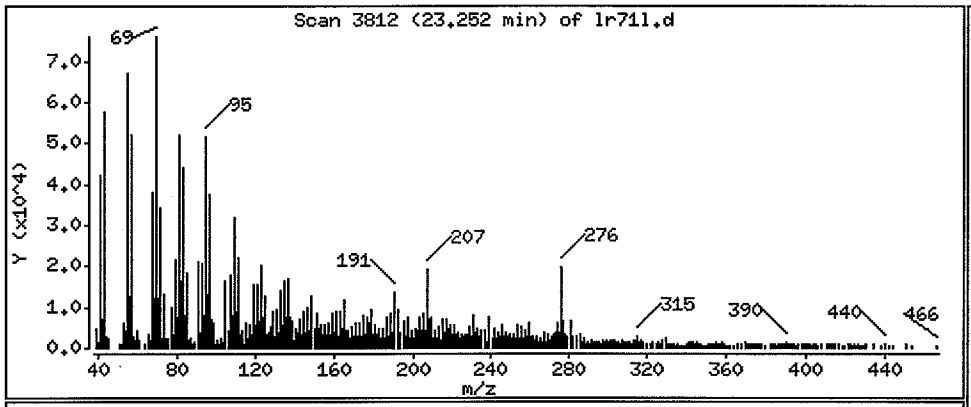
Operator: LJR/VTS

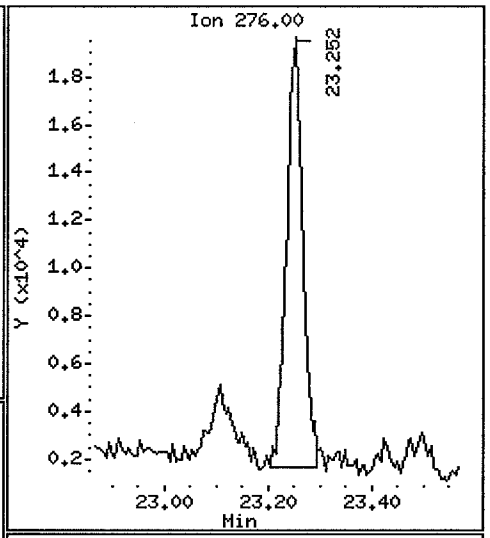
Column phase: ZB-5

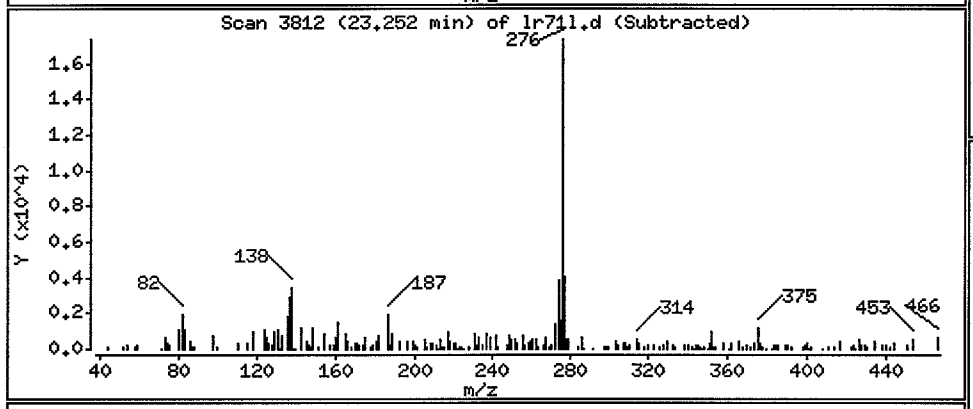
Column diameter: 0.32

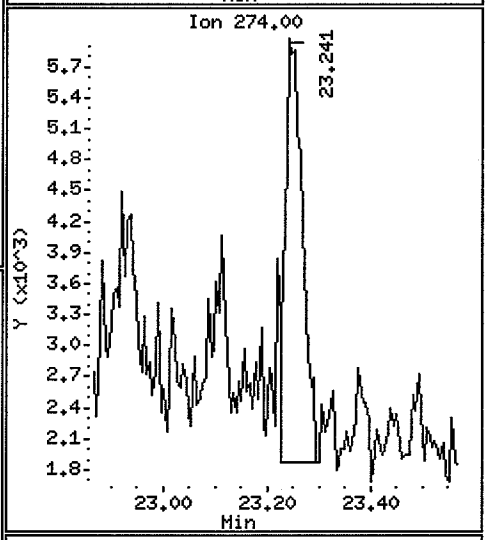
78 Indeno(1,2,3-cd)pyrene

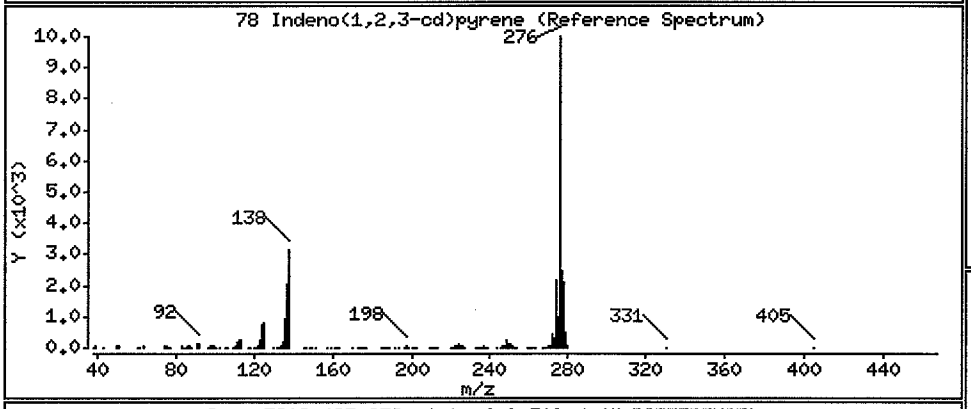
Concentration: 19.07 ug/kg

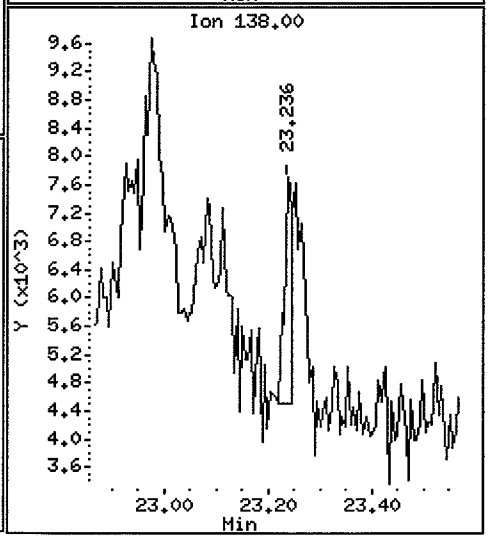


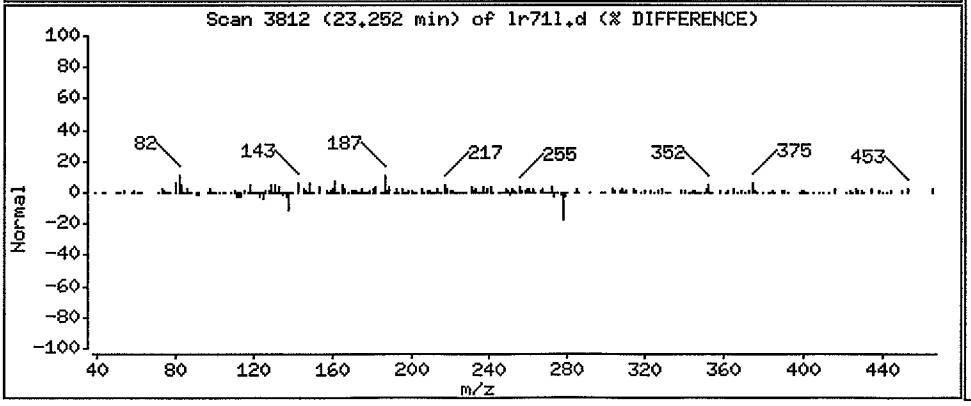












Data File: /chem1/nt6.i/20071018.b/lr711.d

Date : 18-OCT-2007 21:25

Client ID: AN-SS-09

Instrument: nt6.i

Sample Info: LR71L

Volume Injected (uL): 1.0

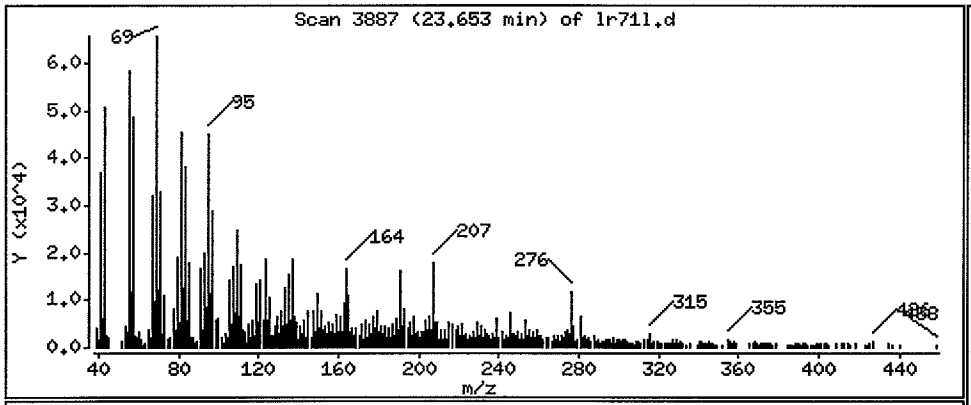
Operator: LJR/VTS

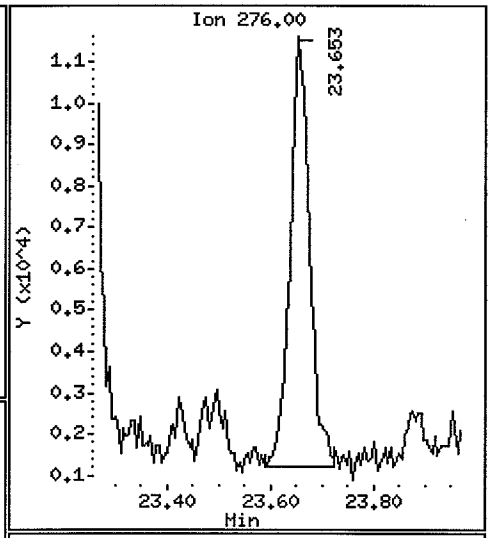
Column phase: ZB-5

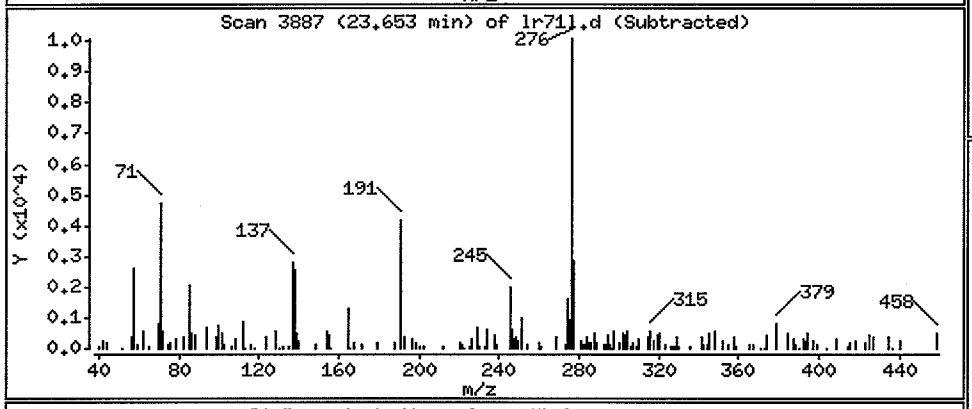
Column diameter: 0.32

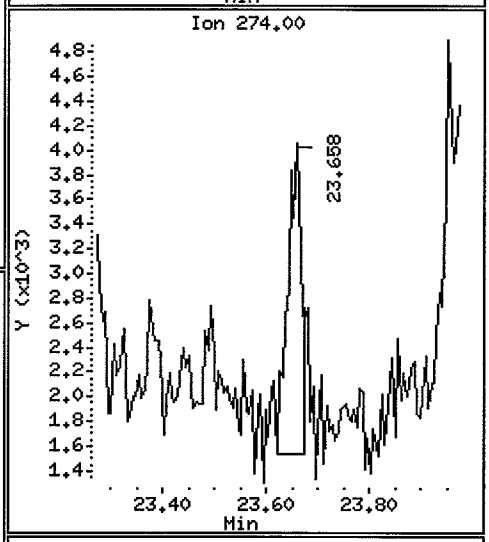
80 Benzo(g,h,i)perylene

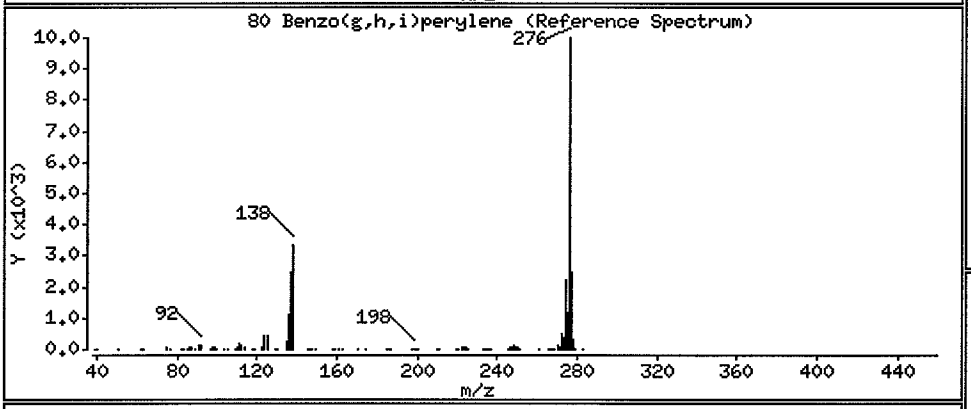
Concentration: 12.92 ug/kg

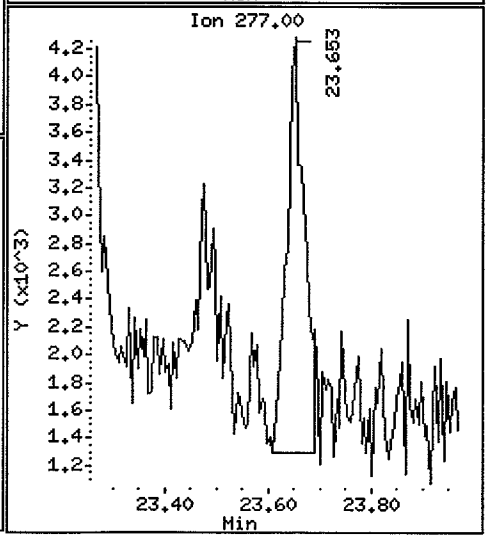


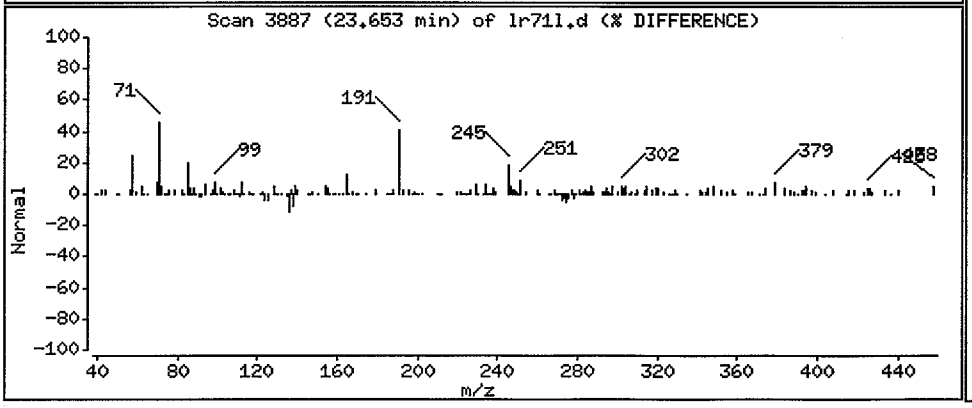












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-09**
Page 1 of 2 **REEXTRACT**

Lab Sample ID: LR71L
LIMS ID: 07-20777
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: 10/27/07
Date Analyzed: 11/01/07 22:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 34.1%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**52**
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**	**22**
67-72-1	Hexachloroethane	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	**Benzoic Acid**	**200**	**210**
120-82-1	1,2,4-Trichlorobenzene	9.9	< 9.9 UJ
91-20-3	**Naphthalene**	**20**	**50**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	**2-Methylnaphthalene**	**20**	**140**
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	**Acenaphthene**	**20**	**71**
132-64-9	**Dibenzofuran**	**20**	**88**
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**100**
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**	**500**
120-12-7	**Anthracene**	**20**	**130**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**690**
129-00-0	**Pyrene**	**20**	**430**
85-68-7	Butylbenzylphthalate	80	< 80 Y
56-55-3	**Benzo(a)anthracene**	**20**	**160**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**150**
218-01-9	**Chrysene**	**20**	**220**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**180**
207-08-9	**Benzo(k)fluoranthene**	**20**	**160**
50-32-8	**Benzo(a)pyrene**	**20**	**150**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**43**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**27**

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS

Sample ID: AN-SS-09
REEXTRACT

Lab Sample ID: LR71L
LIMS ID: 07-20777
Matrix: Sediment
Date Analyzed: 11/01/07 22:54

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA

CAS Number	Analyte	RL	Result
90-12-0	1-Methylnaphthalene	20	95

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	58.8%	2-Fluorobiphenyl	59.2%
d14-p-Terphenyl	59.6%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	57.1%	2-Fluorophenol	42.4%
2,4,6-Tribromophenol	60.5%	d4-2-Chlorophenol	57.3%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr7112.d
Lab Smp Id: LR71LRE
Inj Date : 01-NOV-2007 22:54
Operator : VTS Inst ID: nt4.i
Smp Info : LR71LRE
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: 18
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)	CONCENTRATIONS FINAL (ug/Kg)
$	1	2-Fluorophenol	112	4.859	4.748	(0.712)	221274	15.8830	317.7
$	2	Phenol-d5	99	6.521	6.489	(0.955)	333873	21.4110	428.2
	3	Phenol	94	6.537	6.505	(0.958)	48457	2.61657	52.33
$	5	2-Chlorophenol-d4	132	6.547	6.521	(0.959)	248677	21.4990	430.0
	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)	164643	20.0000	
	9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10	1,2-Dichlorobenzene-d4	152	7.124	7.114	(1.044)	100369	13.4857	269.7
	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	7.707	7.686	(1.129)	13653	1.09640	21.93
$ 18	Nitrobenzene-d5	82	7.776	7.771	(0.876)	227864	14.6966	293.9
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	8.764	8.813	(0.987)	106499	10.7588	215.2(M)
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	8.876	8.872	(1.000)	587768	20.0000	
28	Naphthalene	128	8.903	8.899	(1.003)	90959	2.52072	50.41
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	10.020	10.015	(1.129)	134612	7.32307	146.5
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	10.677	10.677	(0.913)	331088	14.8233	296.5
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	11.435	11.431	(0.978)	23213	0.73376 LOC	14.68
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	11.692	11.682	(1.000)	323476	20.0000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	11.734	11.730	(1.004)	74669	3.55552	71.11
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	11.996	11.992	(1.026)	121936	4.45804	89.16
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	Compound Not Detected.					
49	Fluorene	166	12.541	12.537	(1.073)	119665	5.12710	102.5
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	12.963	12.953	(1.109)	63132	22.6717	453.4
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	14.005	14.000	(1.000)	493723	20.0000	
60	Phenanthrene	178	14.042	14.032	(1.003)	868748	25.4599	509.2
61	Anthracene	178	14.112	14.102	(1.008)	228065	6.60976	132.2
62	Carbazole	167	14.427	14.412	(1.030)	43565	1.47566	29.51
63	Di-n-butylphthalate	149	Compound Not Detected.					