Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928

Instrument: nt6.i

Sample Info: LR71C

Volume Injected (uL): 1.0

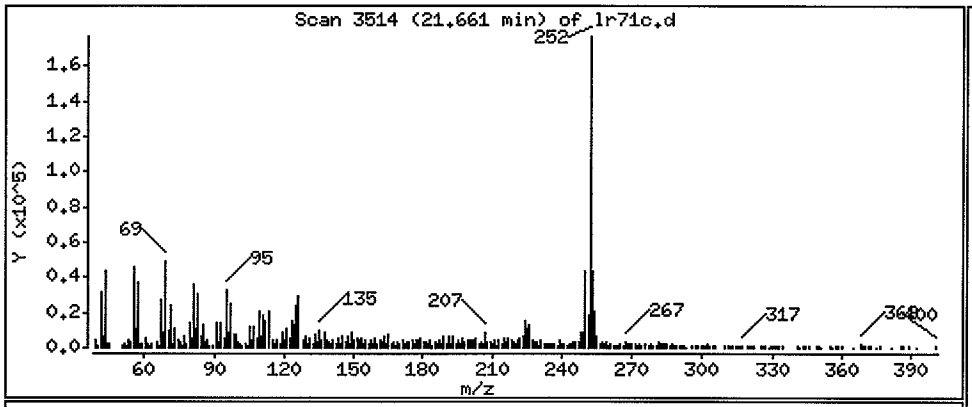
Operator: LJR/VTS

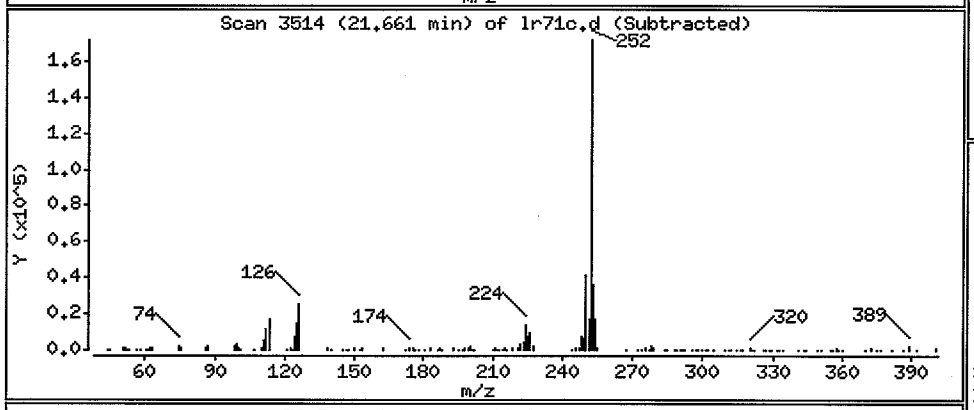
Column phase: ZB-5

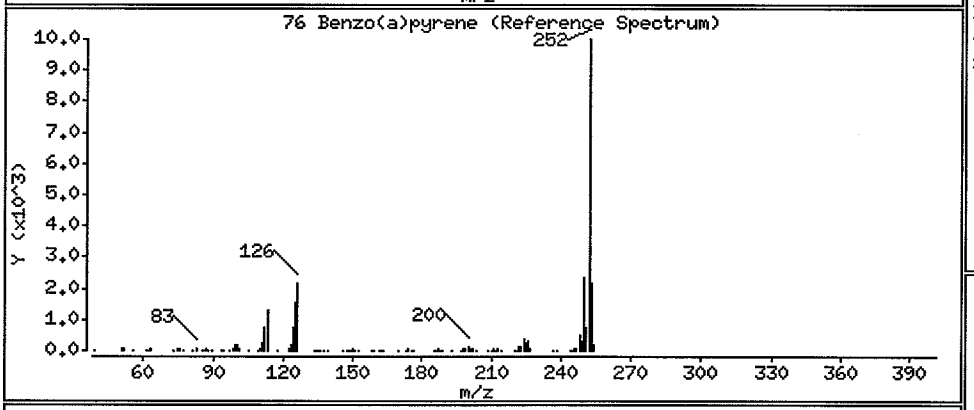
Column diameter: 0.32

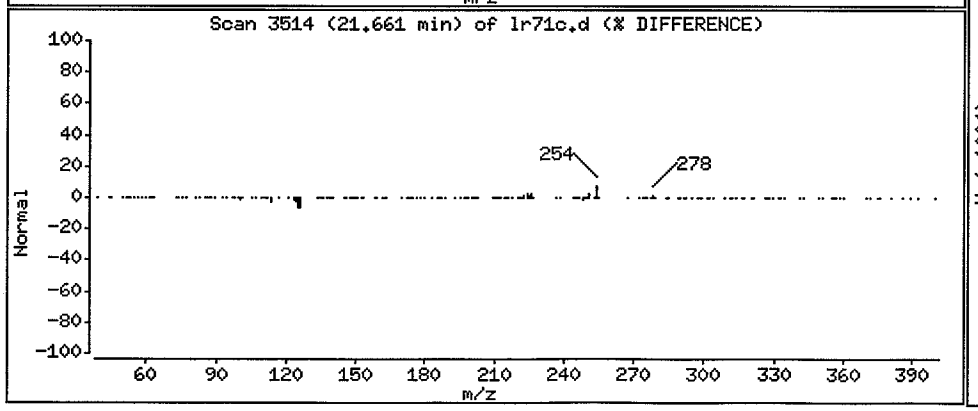
76 Benzo(a)pyrene

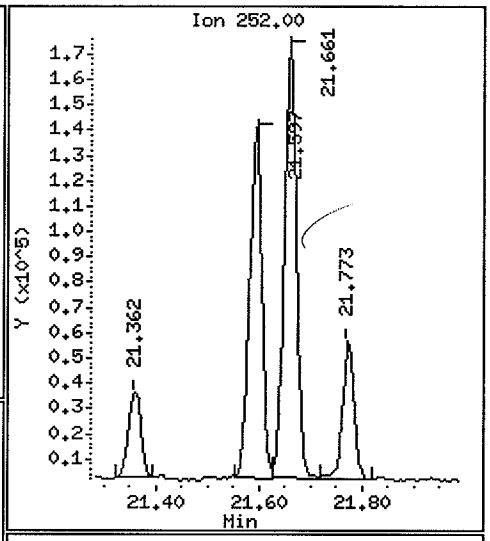
Concentration: 130.2 ug/kg

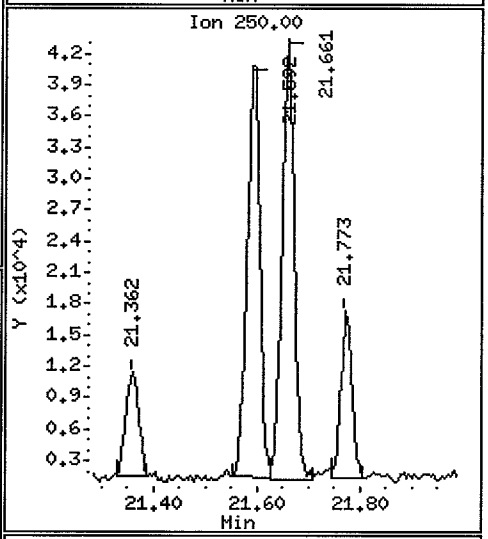


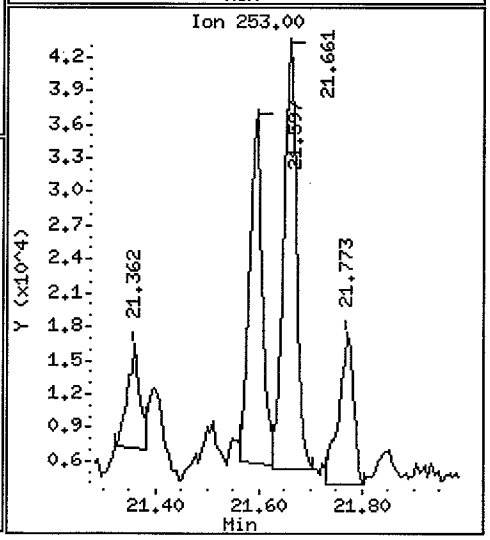












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

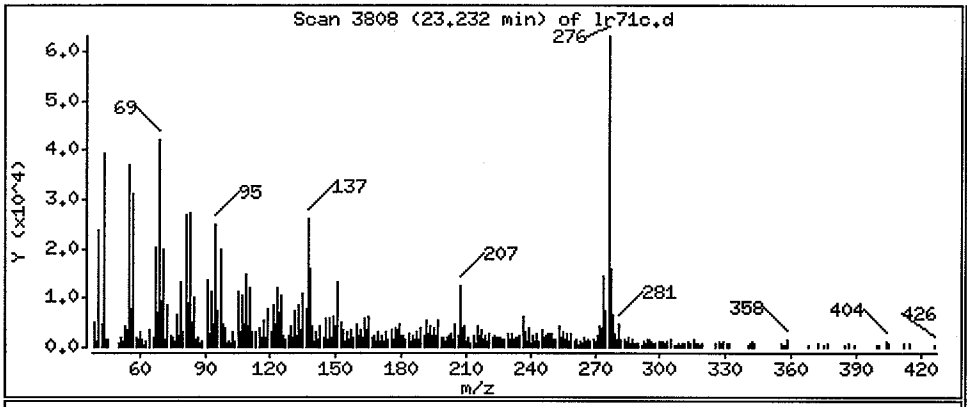
Client ID: AN-SS-03-070928 Instrument: nt6.i

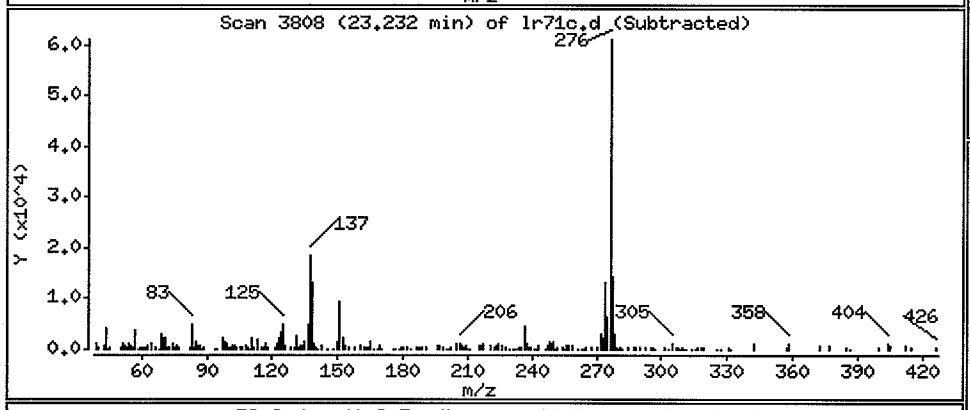
Sample Info: LR71C

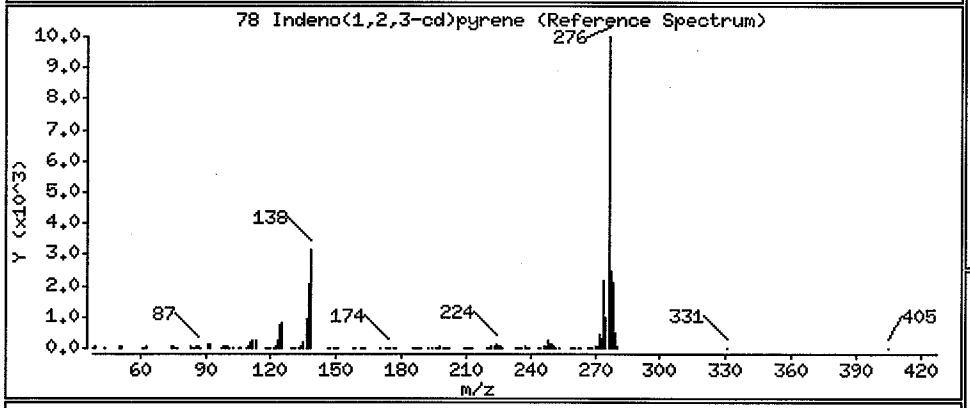
Volume Injected (uL): 1.0 Operator: LJR/VTS

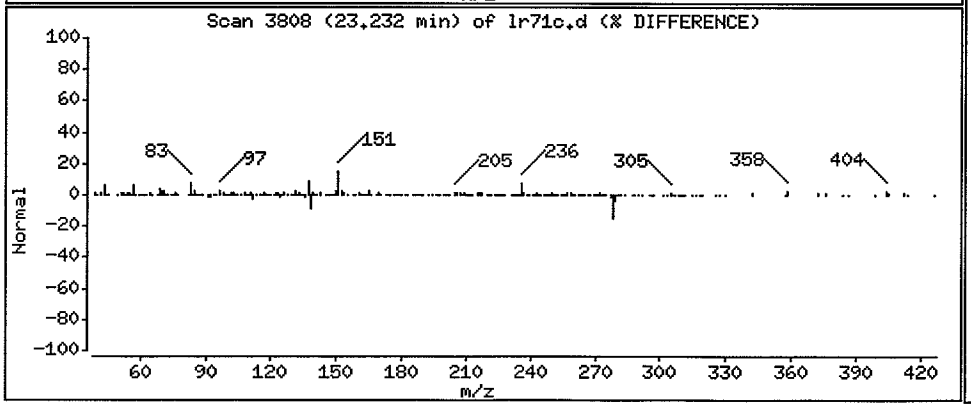
Column phase: ZB-5 Column diameter: 0.32

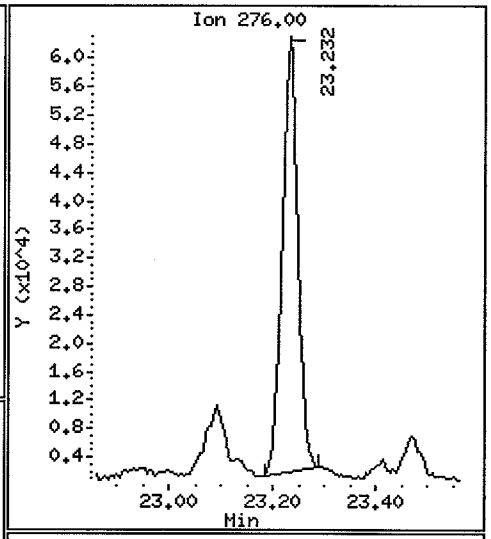
78 Indeno(1,2,3-cd)pyrene Concentration: 48.37 ug/kg

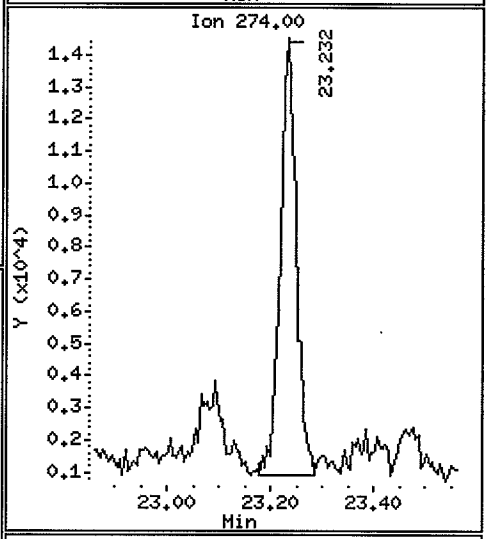


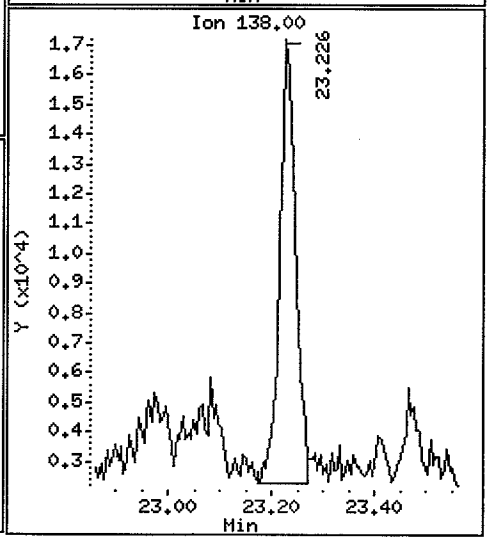












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

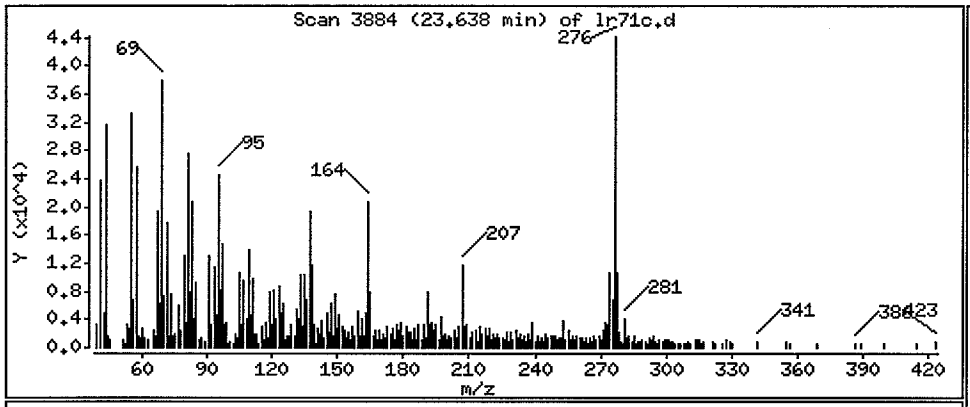
Client ID: AN-SS-03-070928 Instrument: nt6.i

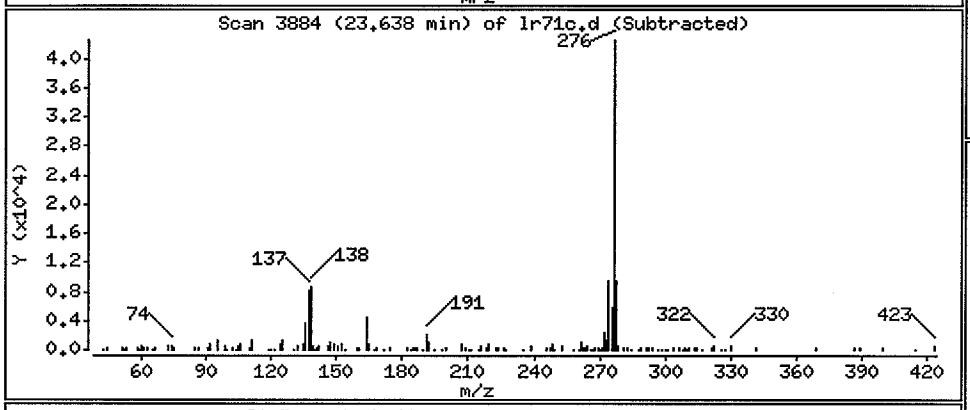
Sample Info: LR71C

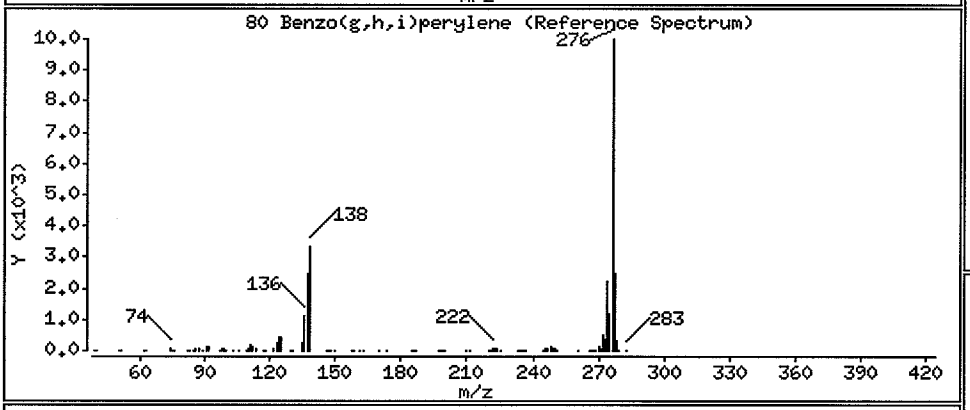
Volume Injected (uL): 1.0 Operator: LJR/VTS

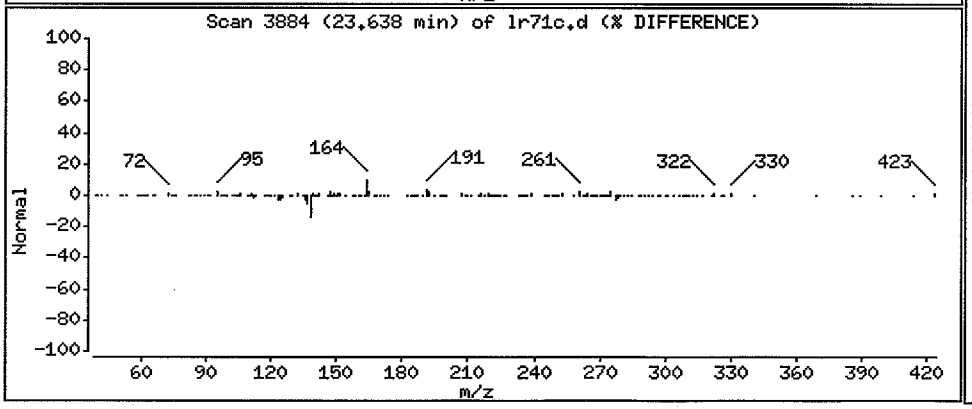
Column phase: ZB-5 Column diameter: 0.32

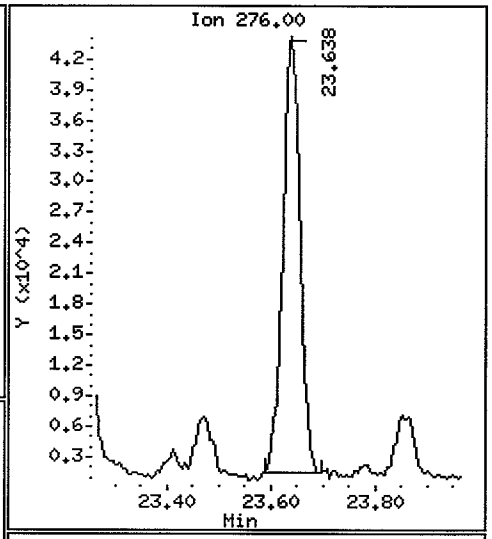
80 Benzo(g,h,i)perylene Concentration: 36.95 ug/kg

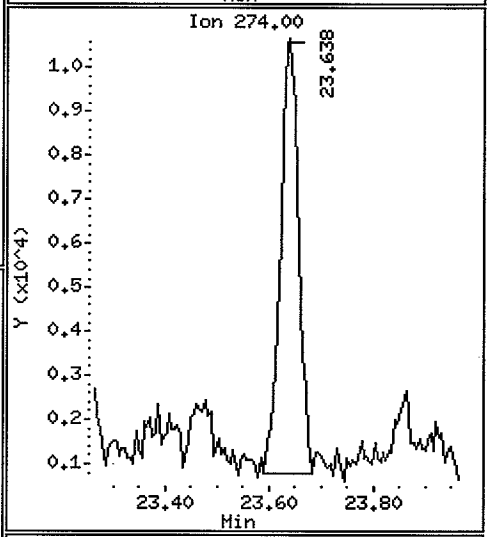


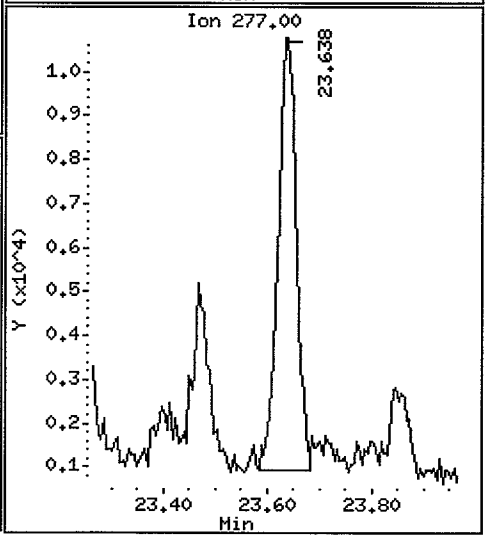












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928

Instrument: nt6.i

Sample Info: LR71C

Volume Injected (uL): 1.0

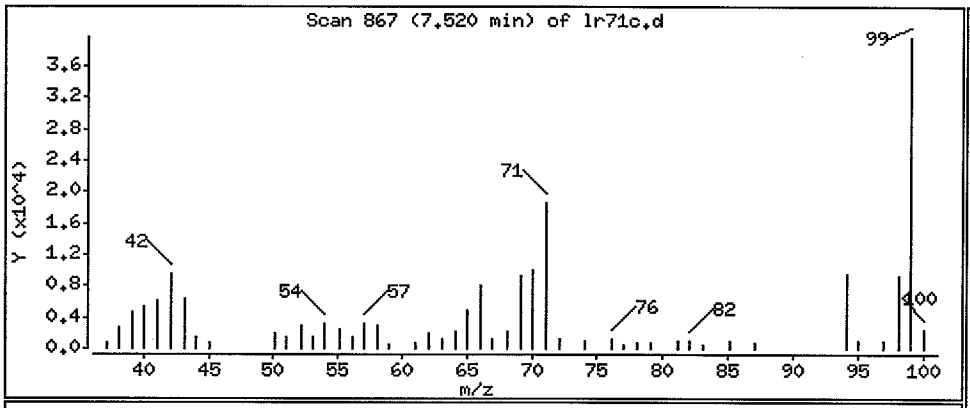
Operator: LJR/VTS

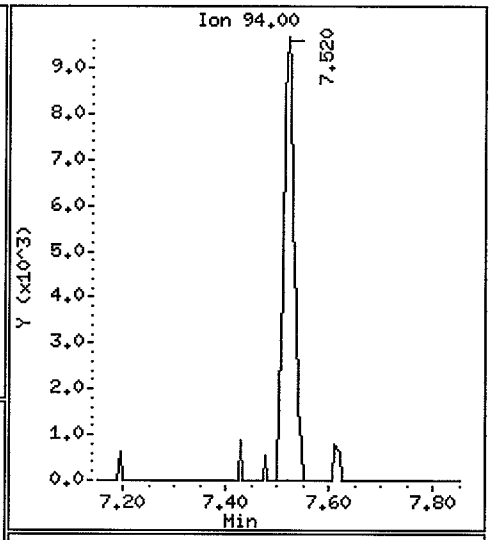
Column phase: ZB-5

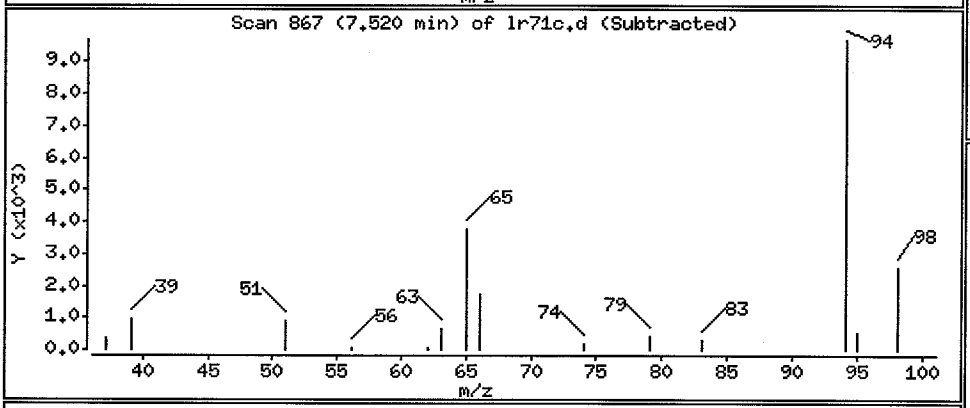
Column diameter: 0.32

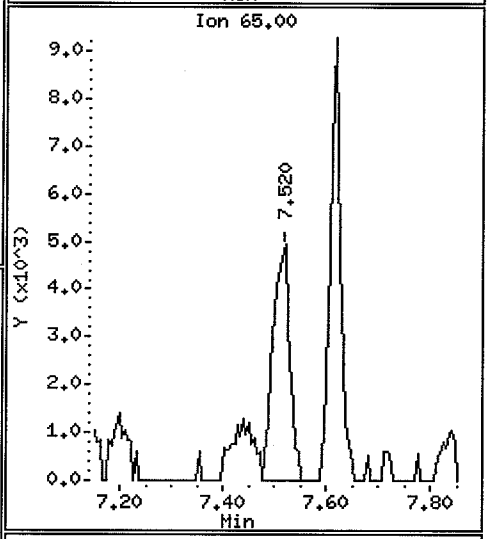
3 Phenol

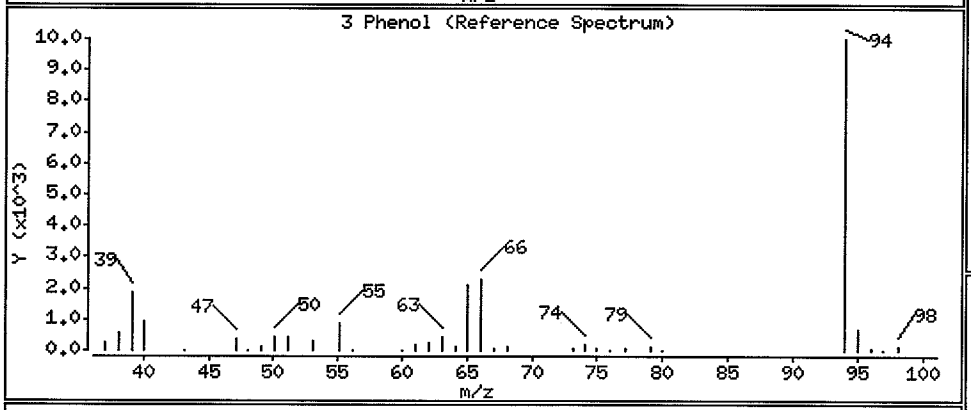
Concentration: 12.15 ug/kg

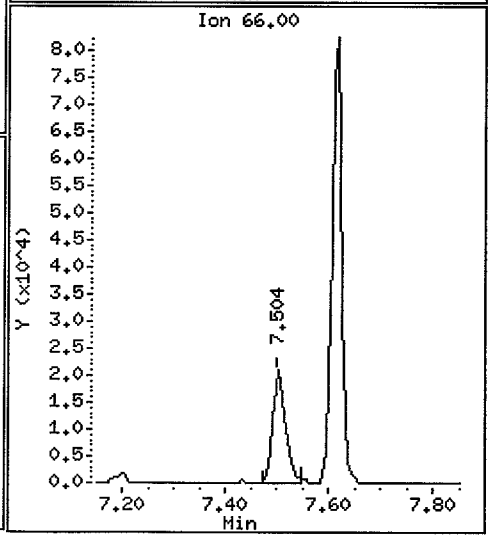


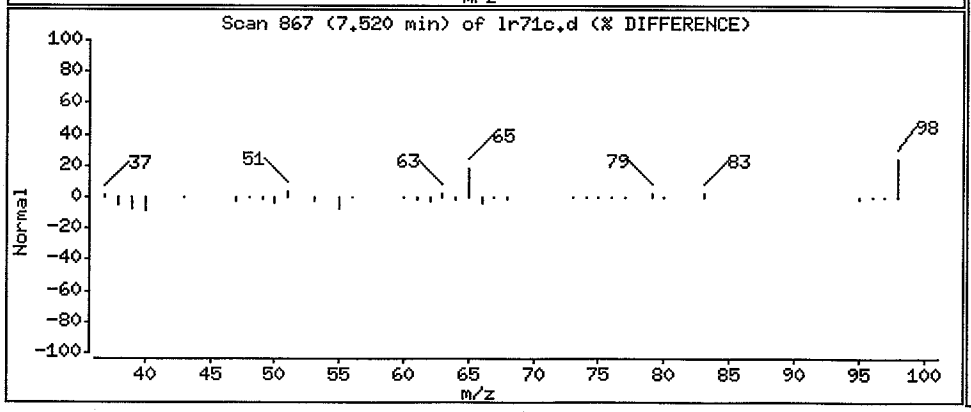












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

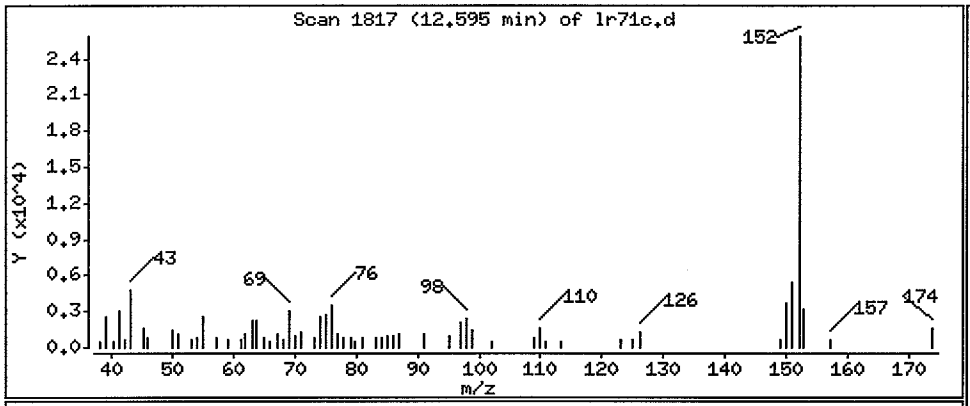
Client ID: AN-SS-03-070928 Instrument: nt6.i

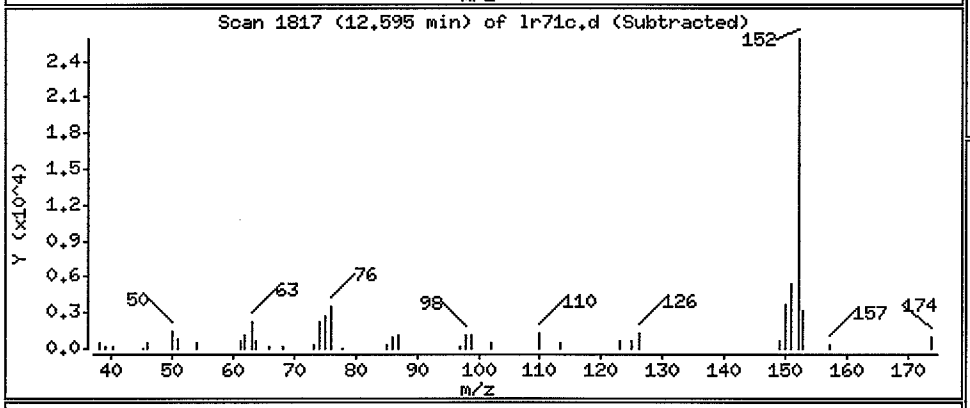
Sample Info: LR71C

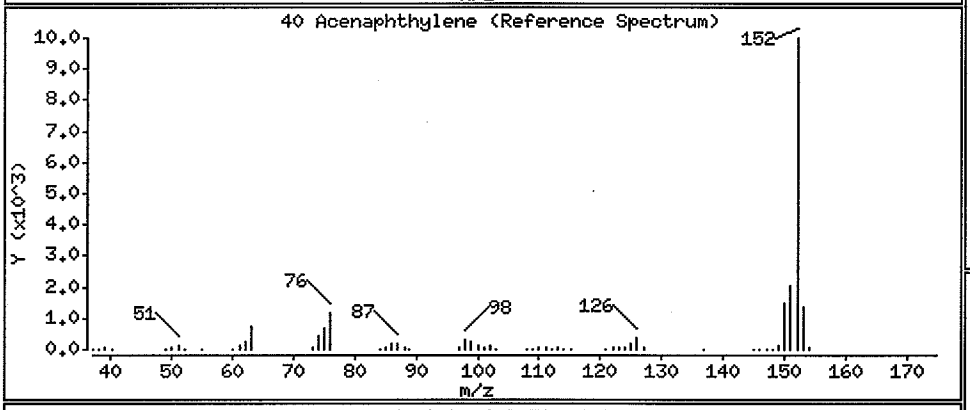
Volume Injected (uL): 1.0 Operator: LJR/VTS

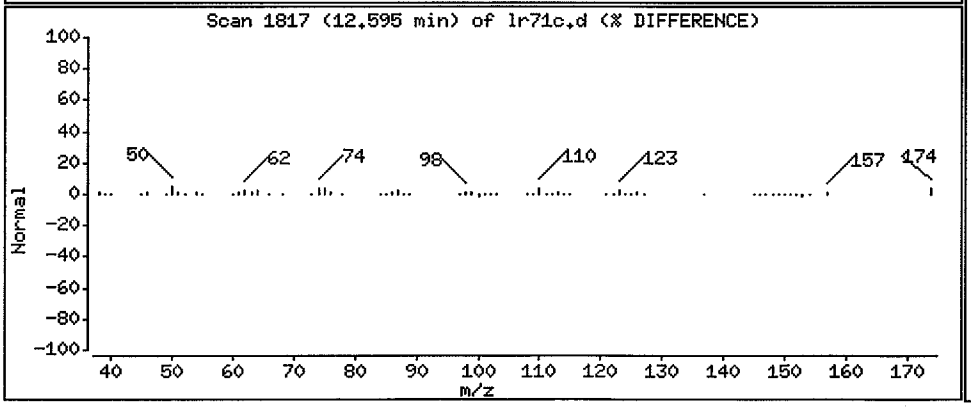
Column phase: ZB-5 Column diameter: 0.32

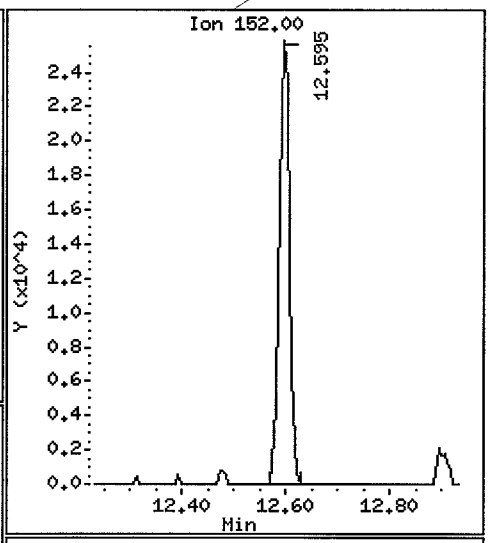
40 Acenaphthylene Concentration: 18.48 ug/kg

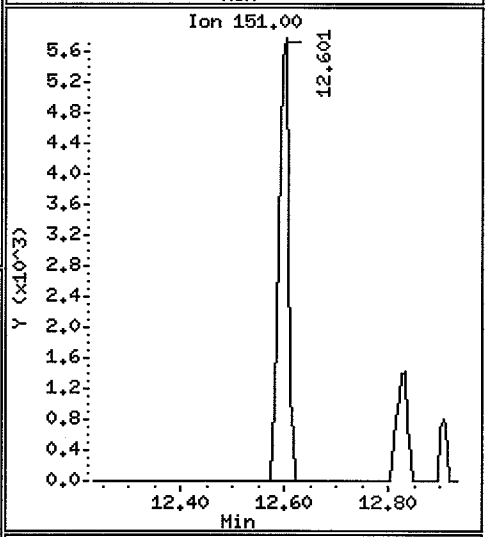


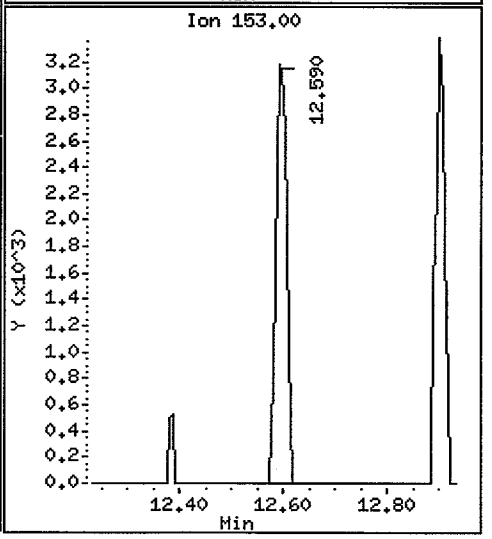












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

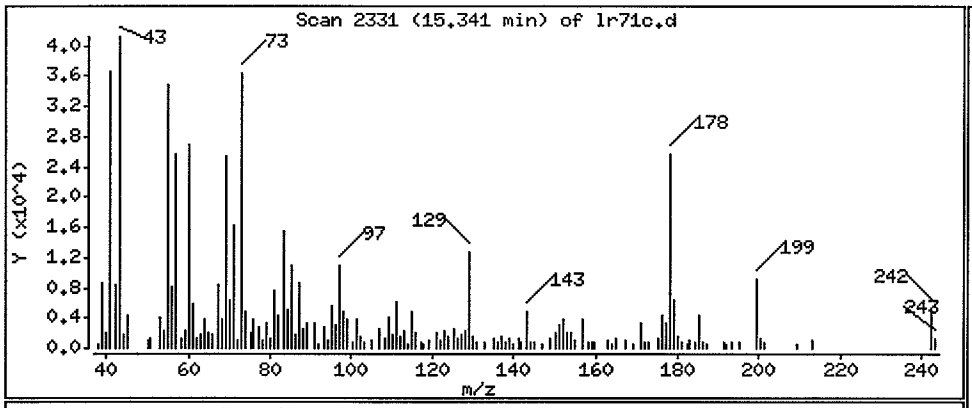
Client ID: AN-SS-03-070928 Instrument: nt6.i

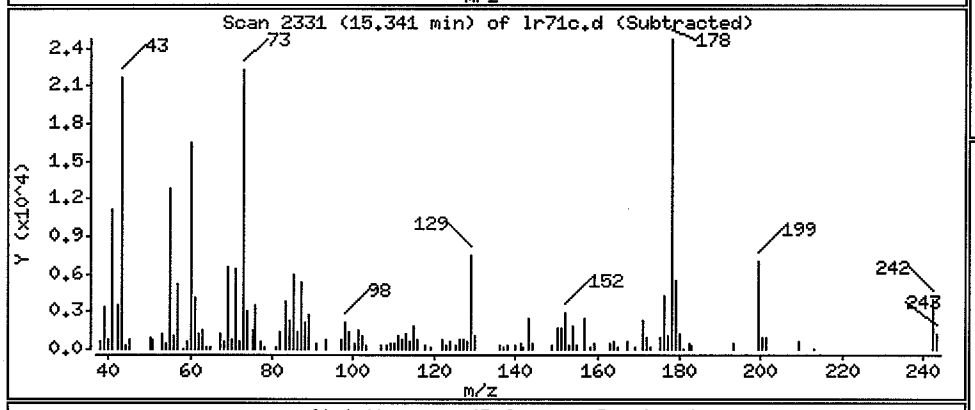
Sample Info: LR71C

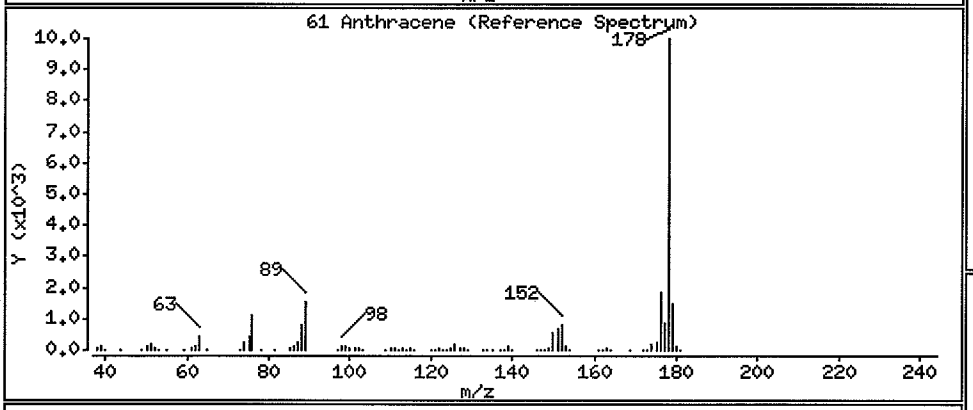
Volume Injected (uL): 1.0 Operator: LJR/VTS

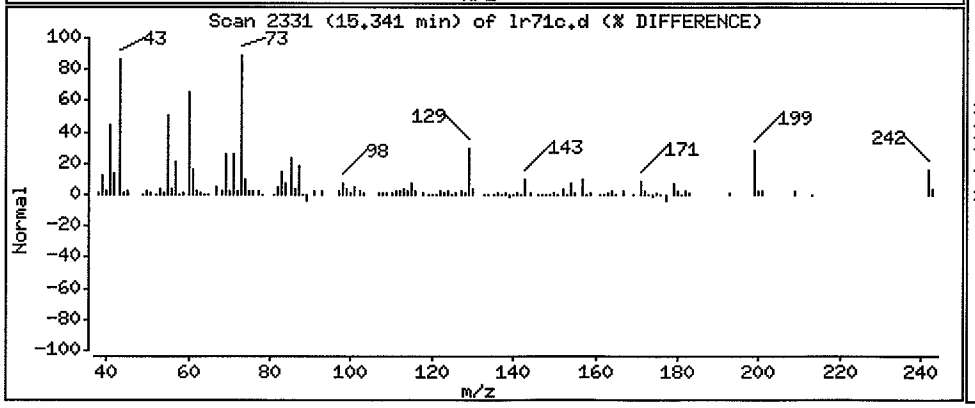
Column phase: ZB-5 Column diameter: 0.32

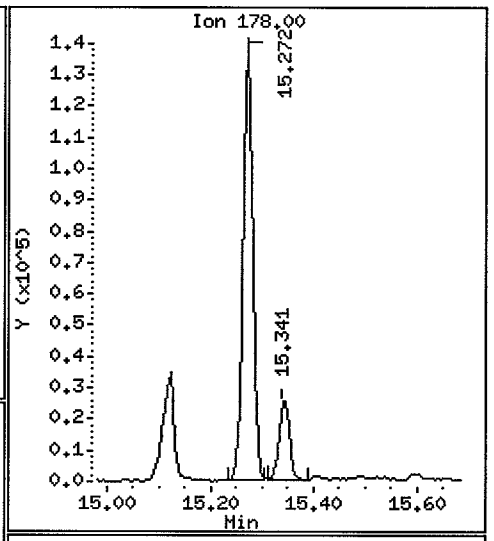
61 Anthracene Concentration: 16.29 ug/kg

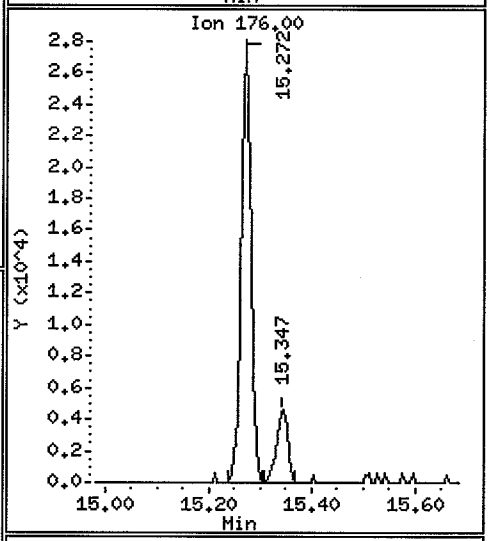


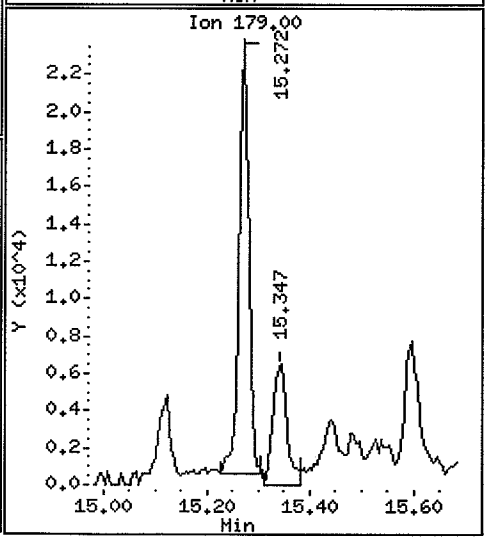












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

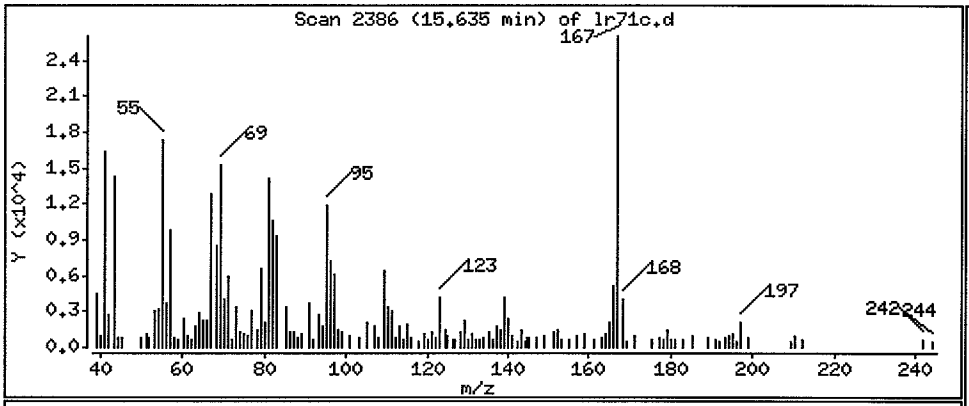
Client ID: AN-SS-03-070928 Instrument: nt6.i

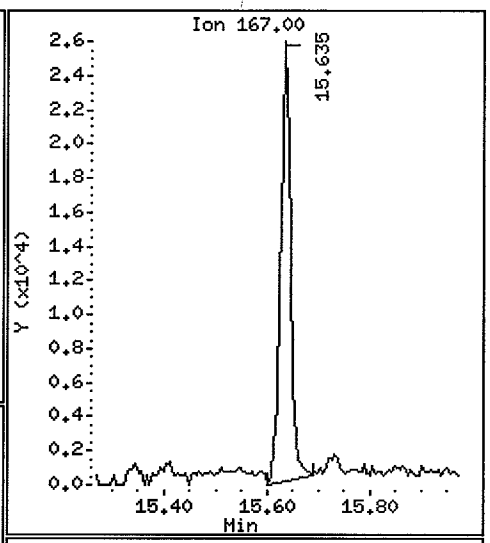
Sample Info: LR71C

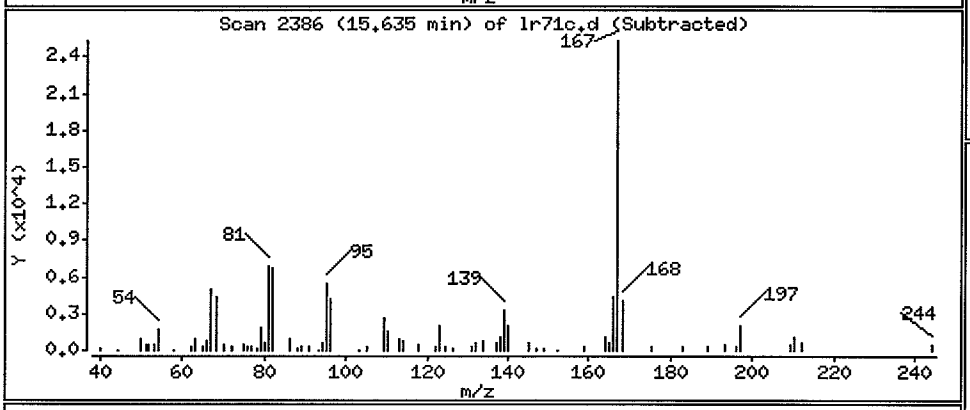
Volume Injected (uL): 1.0 Operator: LJR/VTS

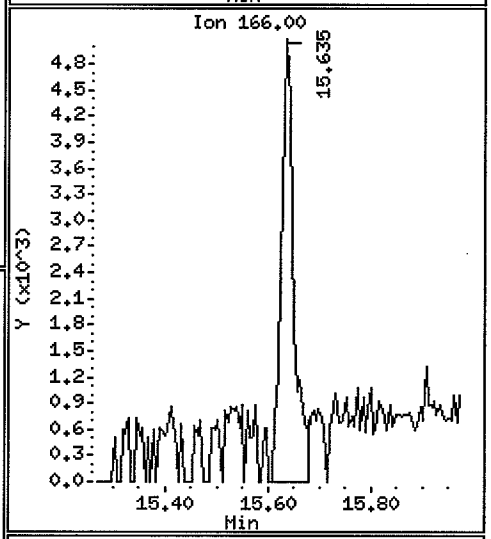
Column phase: ZB-5 Column diameter: 0.32

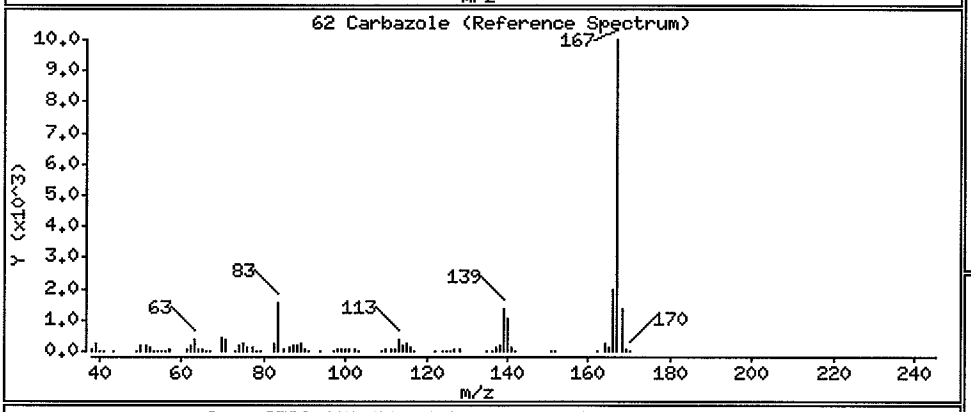
62 Carbazole Concentration: 18.34 ug/kg

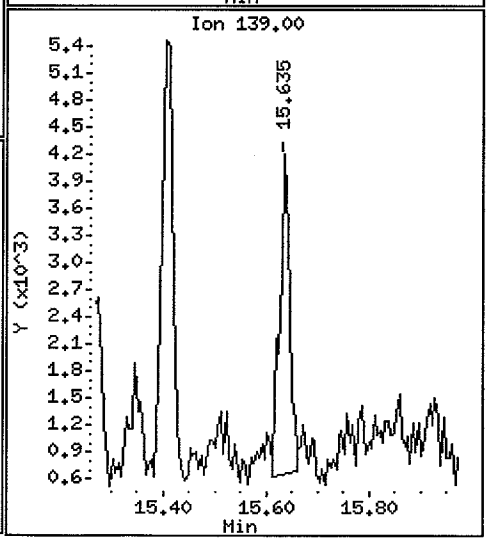


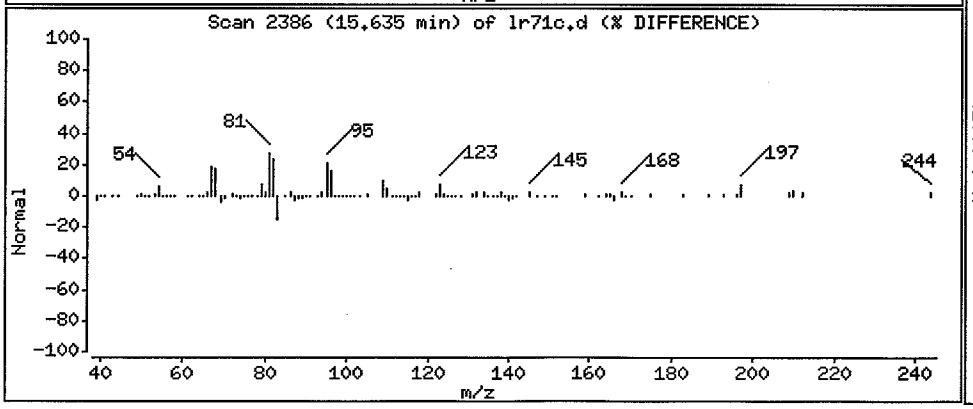












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928

Instrument: nt6.i

Sample Info: LR71C

Volume Injected (uL): 1.0

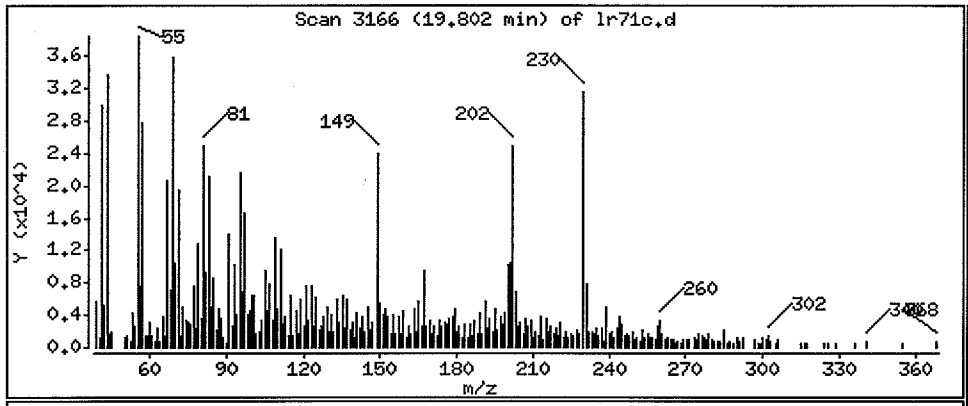
Operator: LJR/VTS

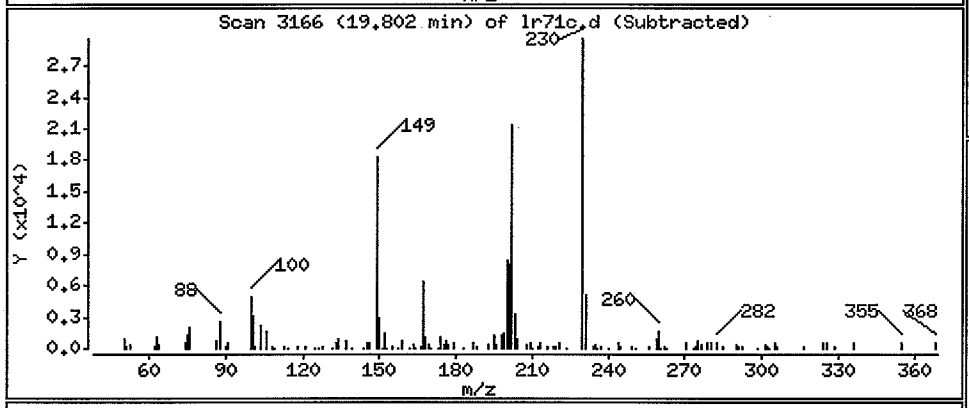
Column phase: ZB-5

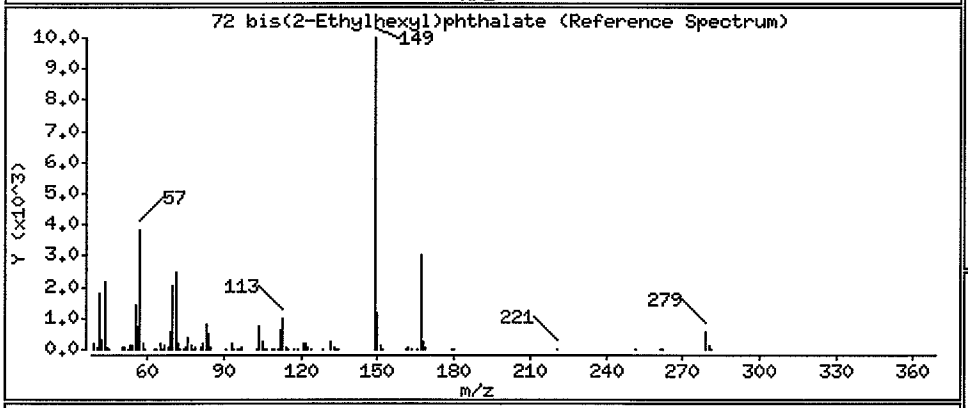
Column diameter: 0.32

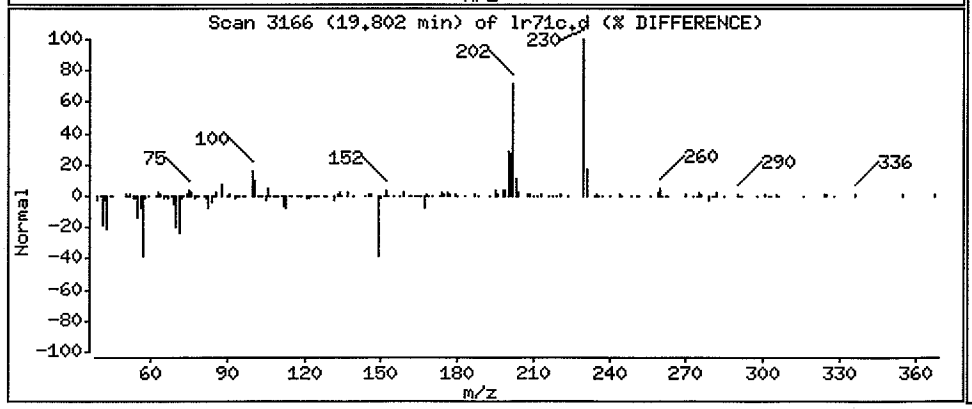
72 bis(2-Ethylhexyl)phthalate

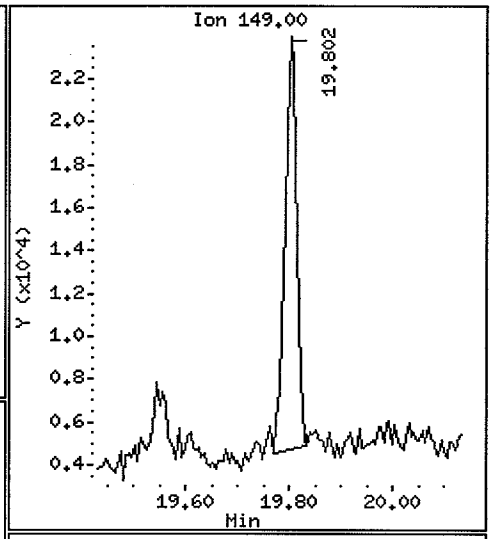
Concentration: 18.73 ug/kg

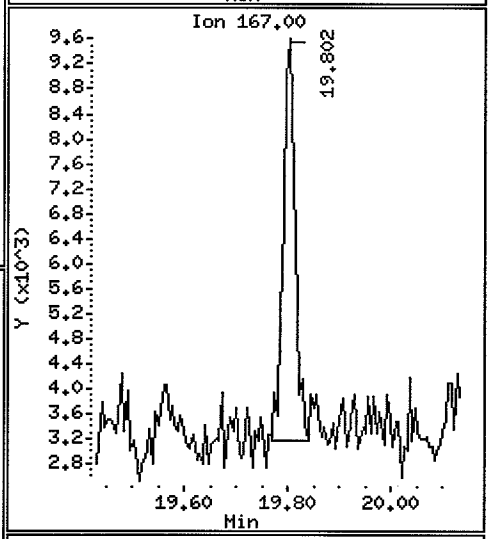


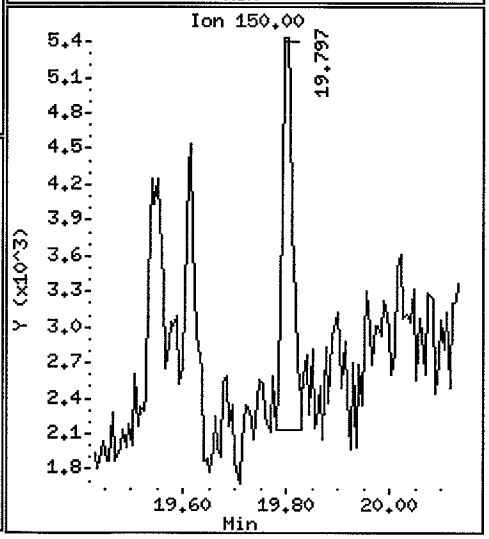












Data File: /chem1/nt6.i/20071018.b/lr71c.d

Date : 18-OCT-2007 15:47

Client ID: AN-SS-03-070928

Instrument: nt6.i

Sample Info: LR71C

Volume Injected (uL): 1.0

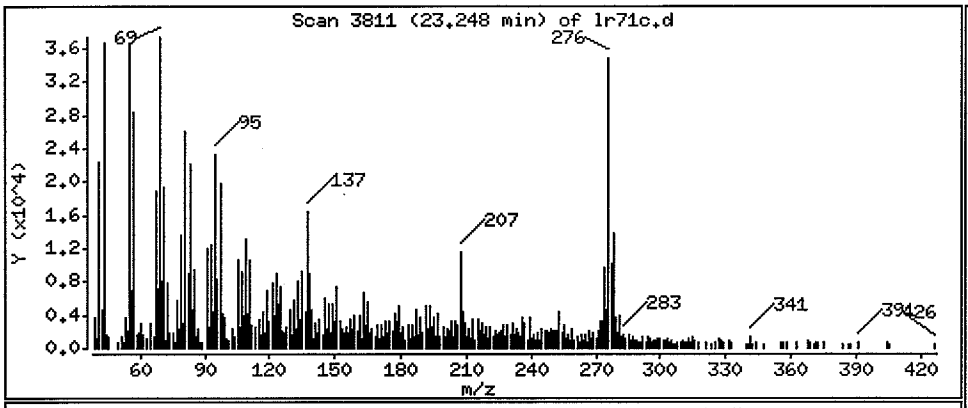
Operator: LJR/VTS

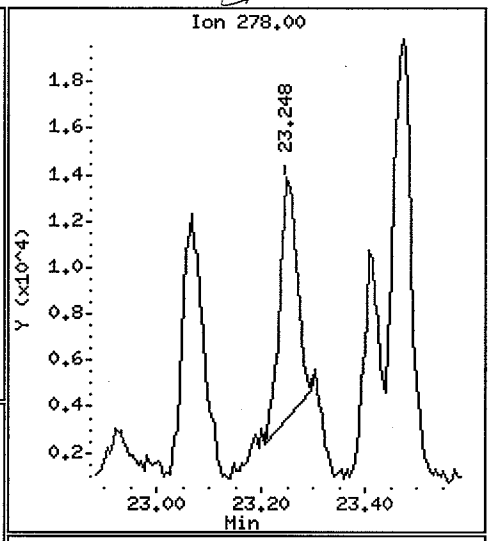
Column phase: ZB-5

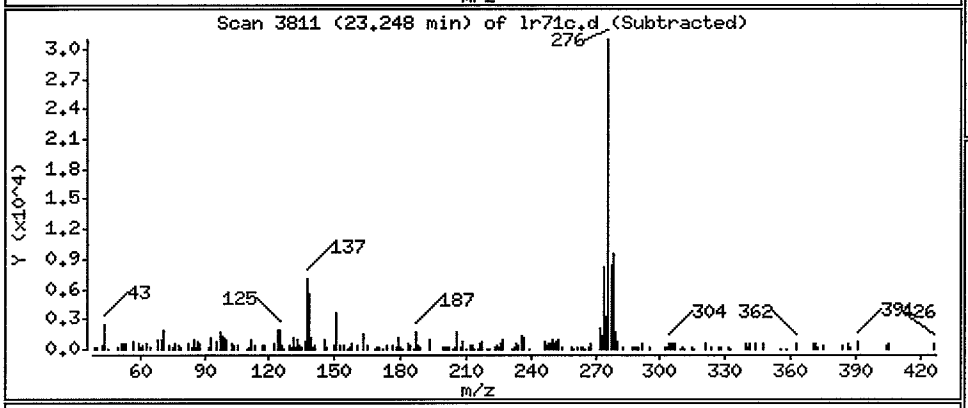
Column diameter: 0.32

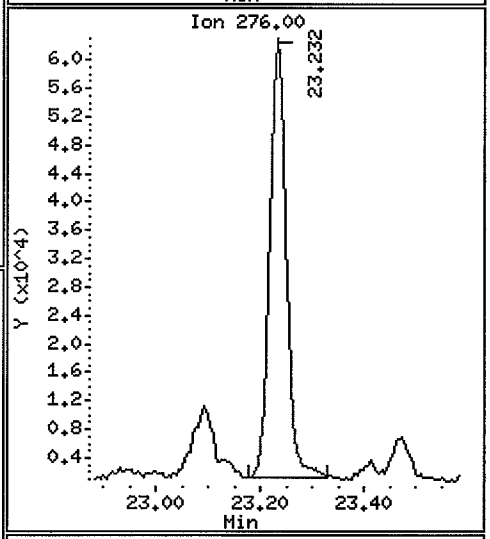
79 Dibenzo(a,h)anthracene

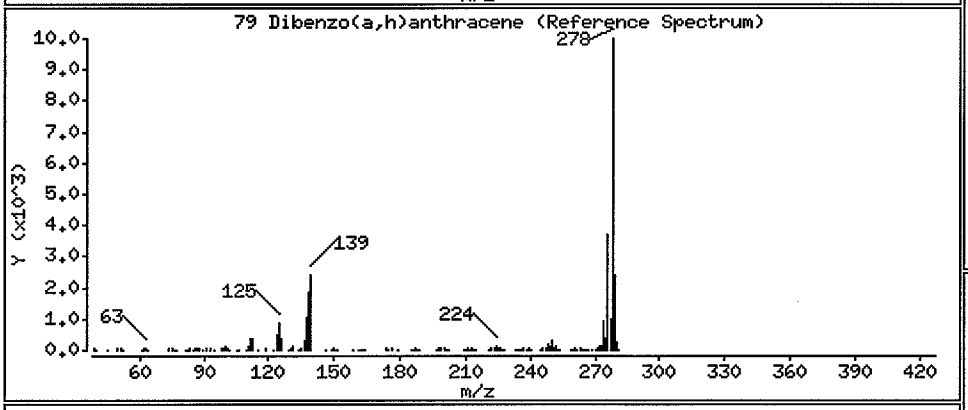
Concentration: 10.66 ug/kg

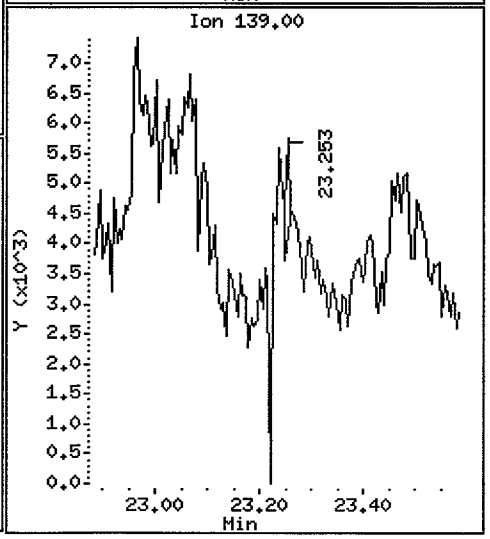


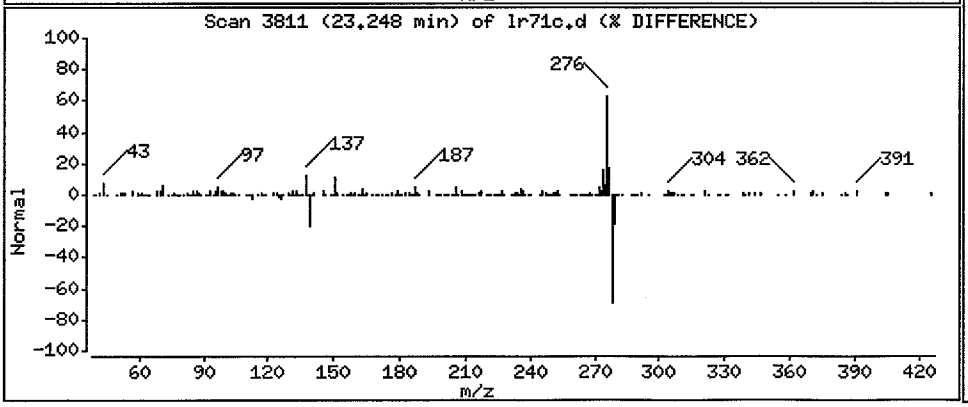












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-03-070928**
Page 1 of 2 **REEXTRACT**

Lab Sample ID: LR71C
LIMS ID: 07-20768
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 17:42
Instrument/Analyst: NT4/LJR
GPC Cleanup: Yes

Sample Amount: 50.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 33.2%

CAS Number	Analyte	RL	Result
108-95-2	**Phenol**	**20**	**33**
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**	**200**
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**	**39**
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	99	< 99 U
85-01-8	**Phenanthrene**	**20**	**48**
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**71**
129-00-0	**Pyrene**	**20**	**60**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**22**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**22**
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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-03-070928**
 REEXTRACT

Lab Sample ID: LR71C QC Report No: LR71-Anchor Environmental, LLC
LIMS ID: 07-20768 Project: Kimberly Clark Anacortes
Matrix: Sediment NA
Date Analyzed: 11/01/07 17:42

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

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	54.4%	2-Fluorobiphenyl	56.0%
d14-p-Terphenyl	53.6%	d4-1,2-Dichlorobenzene	51.2%
d5-Phenol	57.6%	2-Fluorophenol	45.6%
2,4,6-Tribromophenol	57.6%	d4-2-Chlorophenol	56.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20071101.b/lr71c2.d
Lab Smp Id: LR71CRE
Inj Date : 01-NOV-2007 17:42
Operator : VTS Inst ID: nt4.i
Smp Info : LR71CRE
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: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJK 11/12/07

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	4.854	4.748	(0.711)	238761	17.0753	341.5
$	2 Phenol-d5	99	6.510	6.489	(0.954)	337389	21.5571	431.1
	3 Phenol	94	6.531	6.505	(0.957)	31156	1.67618	33.52
$	5 2-Chlorophenol-d4	132	6.542	6.521	(0.958)	243380	20.9639	419.3
	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)	165249	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	7.124	7.114	(1.044)	95795	12.8240	256.5
	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	7.696	7.686	(1.128)	127784	10.2240	204.5
$	18 Nitrobenzene-d5	82	7.776	7.771	(0.877)	219316	13.6047	272.1
	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	8.871	8.872	(1.000)	611125	20.0000	
	28 Naphthalene	128	8.898	8.899	(1.003)	74090	1.97476	39.50
	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	10.677	10.677	(0.914)	306881	13.9733	279.5
	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	11.687	11.682	(1.000)	318065	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	12.579	12.585	(1.076)	13340	0.60105 LDL	12.02
	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	12.963	12.953	(1.109)	59194	21.6192	432.4
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.000	14.000	(1.000)	432391	20.0000	
	60 Phenanthrene	178	14.032	14.032	(1.002)	72990	2.44249	48.85
	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	15.934	15.923	(1.138)	115796	3.57908	71.58
	65 Pyrene	202	16.270	16.260	(0.892)	107885	3.02119	60.42
$	66 Terphenyl-d14	244	16.649	16.634	(0.913)	276701	13.4225	268.4
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	18.204	18.199	(0.999)	30551	0.92254 LDL	18.45
*	69 Chrysene-d12	240	18.231	18.221	(1.000)	445581	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	18.263	18.258	(1.002)	36346	1.11576	22.32
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	19.513	19.503	(1.000)	622522	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.828	19.818	(0.975)	35349	1.09218	21.84
	75 Benzo(k)fluoranthene	252	19.849	19.850	(0.976)	26912	0.78712 LDL	15.74(M)
	76 Benzo(a)pyrene	252	20.255	20.245	(0.996)	21790	0.75597 ↓	15.12(M)
*	77 Perylene-d12	264	20.341	20.325	(1.000)	475370	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.671	21.661	(1.065)	19270	0.60823 LDL	12.16(M)
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	21.959	21.944	(1.080)	16389	0.57431 ↓	11.49(M)
	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: nt4.i
Lab File ID: lr71c2.d
Lab Smp Id: LR71CRE
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

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145384	72692	290768	165249	13.66
27 Naphthalene-d8	530525	265262	1061050	611125	15.19
42 Acenaphthene-d10	280701	140350	561402	318065	13.31
59 Phenanthrene-d10	391934	195967	783868	432391	10.32
69 Chrysene-d12	354658	177329	709316	445581	25.64
134 Di-n-octylphthala	506314	253157	1012628	622522	22.95
77 Perylene-d12	400782	200391	801564	475370	18.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.82	6.32	7.32	6.83	0.07
27 Naphthalene-d8	8.87	8.37	9.37	8.87	-0.01
42 Acenaphthene-d10	11.68	11.18	12.18	11.69	0.04
59 Phenanthrene-d10	14.00	13.50	14.50	14.00	0.00
69 Chrysene-d12	18.22	17.72	18.72	18.23	0.06
134 Di-n-octylphthala	19.50	19.00	20.00	19.51	0.05
77 Perylene-d12	20.33	19.83	20.83	20.34	0.08

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.

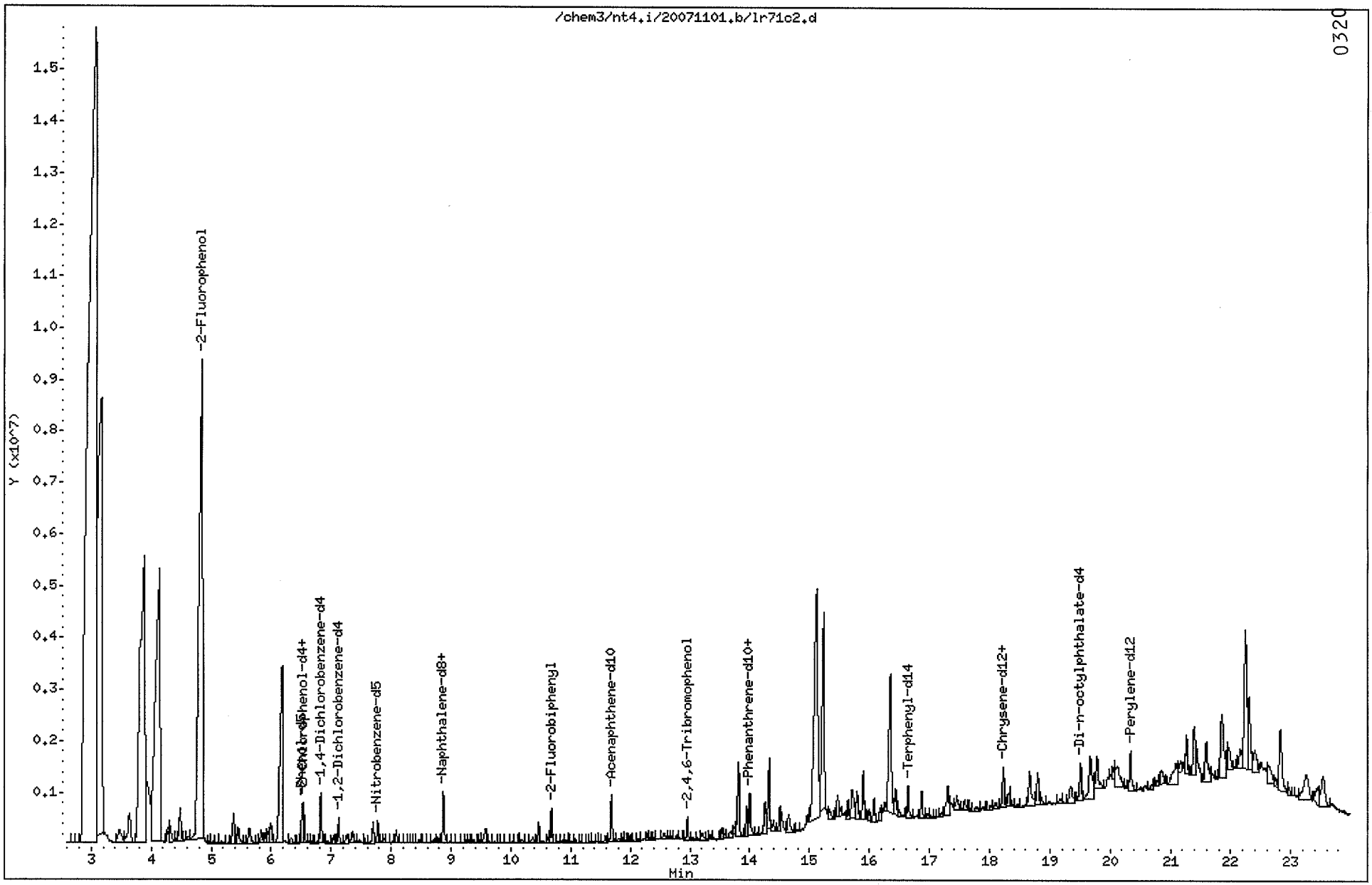
RECOVERY REPORT

Client Name: Client SDG: 20071101
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: LR71CRE
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	341.5	45.53	11-84
$ 2 Phenol-d5	750.0	431.1	57.49	25-86
$ 5 2-Chlorophenol-d4	750.0	419.3	55.90	23-91
$ 10 1,2-Dichlorobenzen	500.0	256.5	51.30	24-90
$ 18 Nitrobenzene-d5	500.0	272.1	54.42	26-88
$ 36 2-Fluorobiphenyl	500.0	279.5	55.89	34-91
$ 55 2,4,6-Tribromophen	750.0	432.4	57.65	25-107
$ 66 Terphenyl-d14	500.0	268.4	53.69	22-100

Data File: /chem3/nt4.i/20071101.b/lr71c2.d
Date : 01-NOV-2007 17:42
Client ID:
Sample Info: LR71CRE
Volume Injected (uL): 1.0
Column phase: ZB-5

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



Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

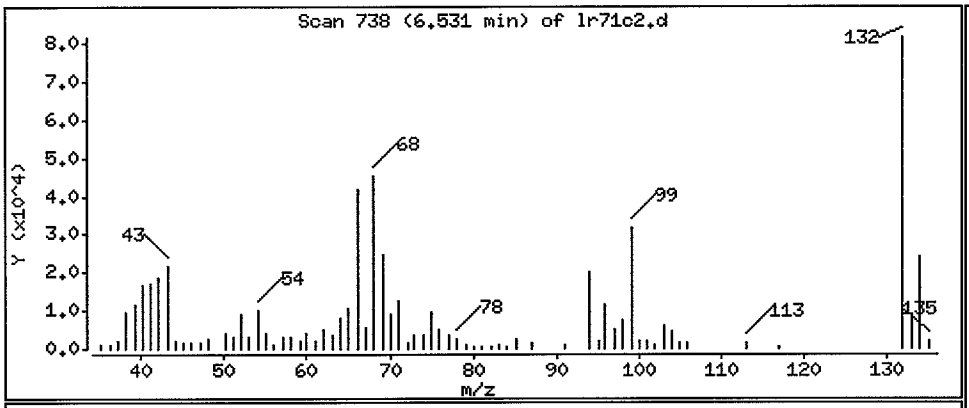
Operator: VTS

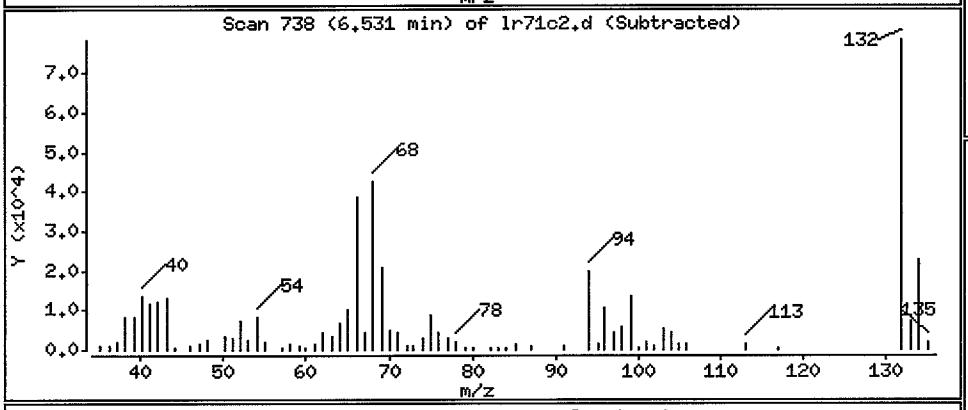
Column phase: ZB-5

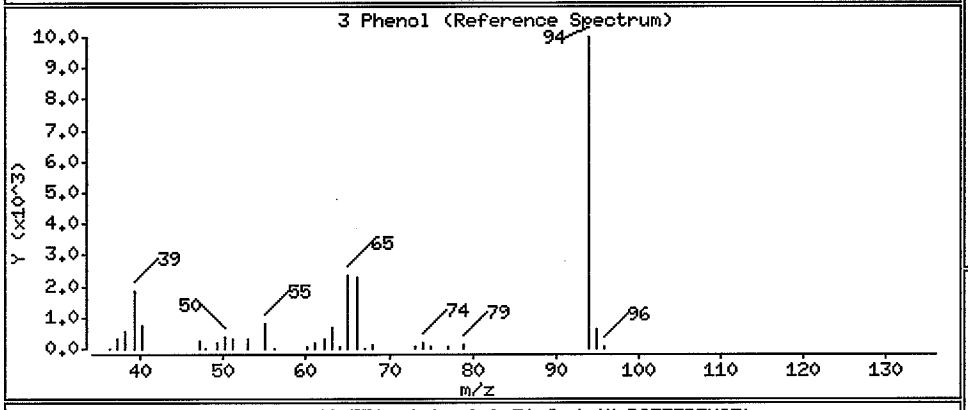
Column diameter: 0.32

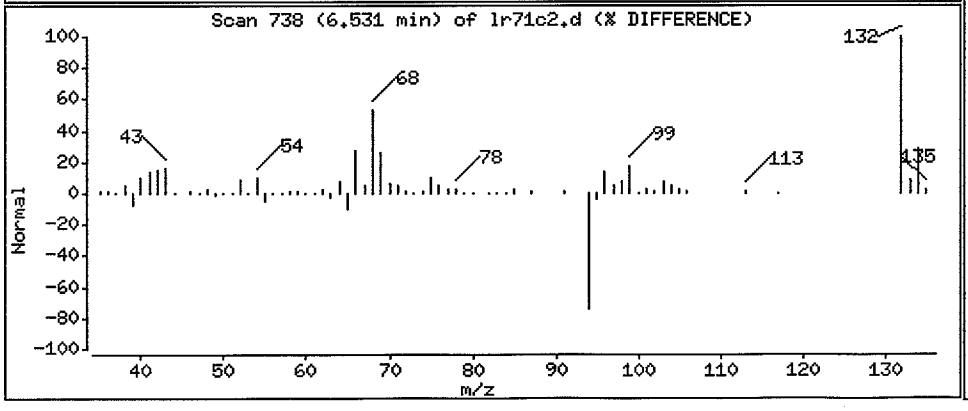
3 Phenol

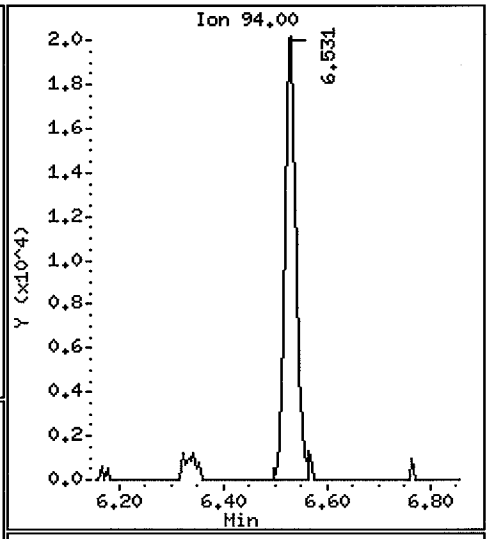
Concentration: 33.52 ug/Kg

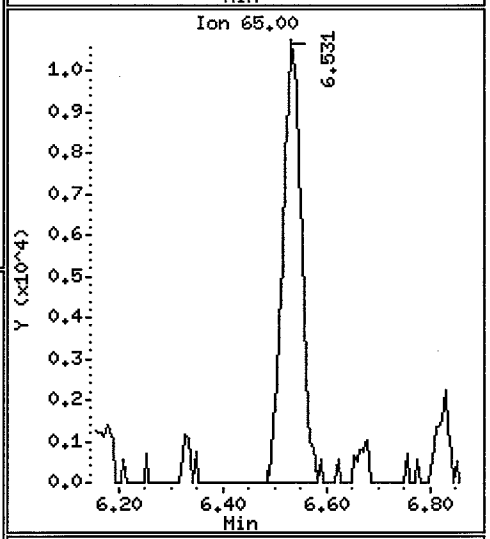


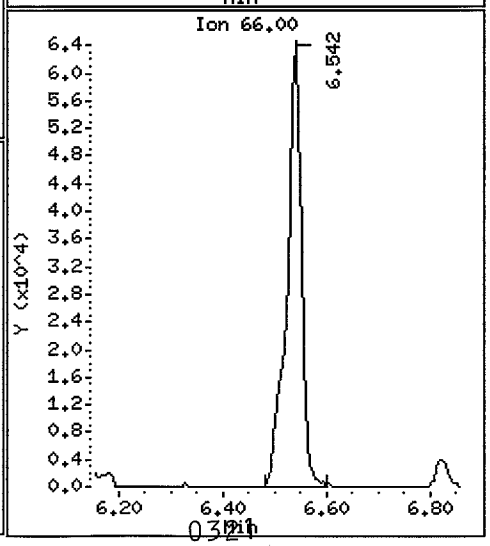












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

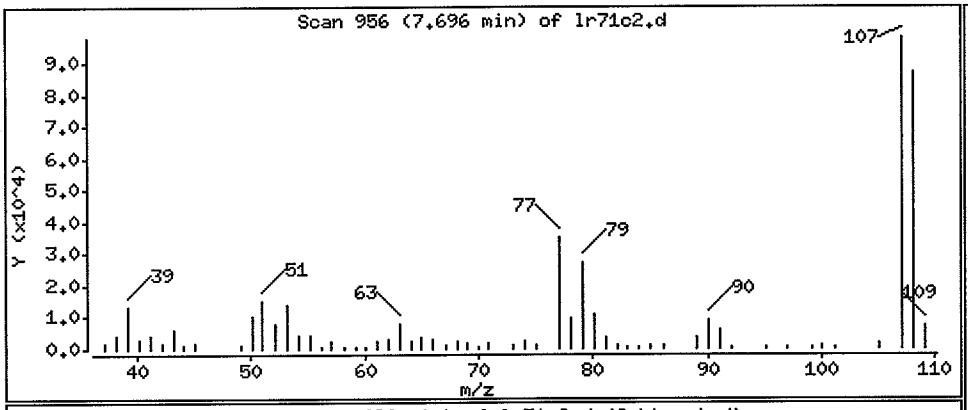
Operator: VTS

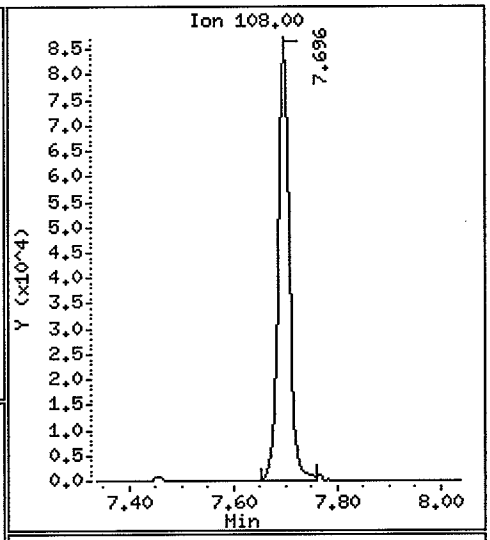
Column phase: ZB-5

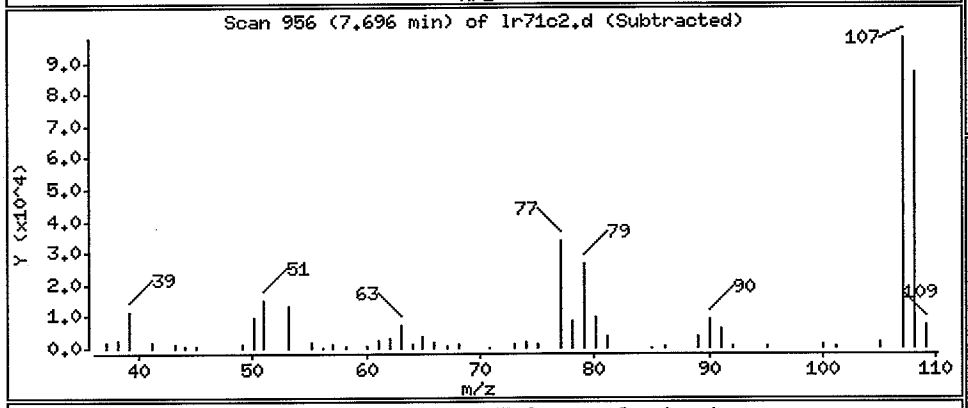
Column diameter: 0.32

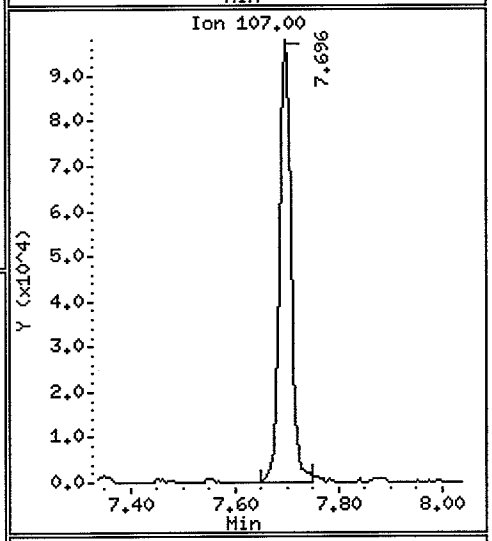
15 4-Methylphenol

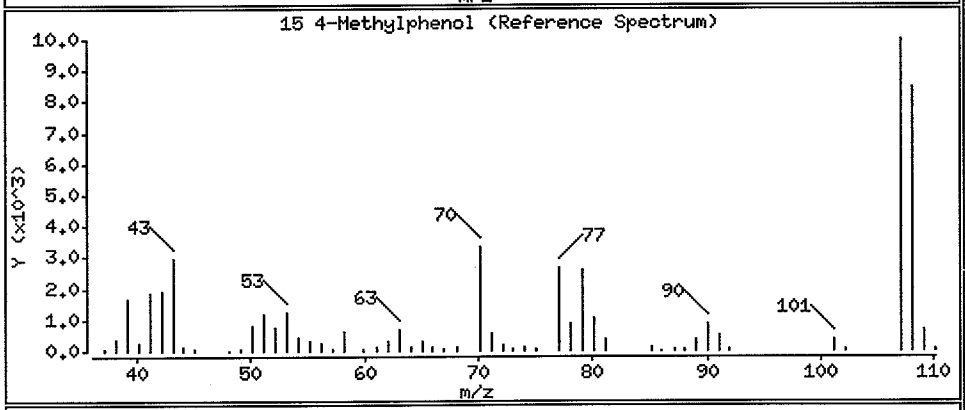
Concentration: 204.5 ug/Kg

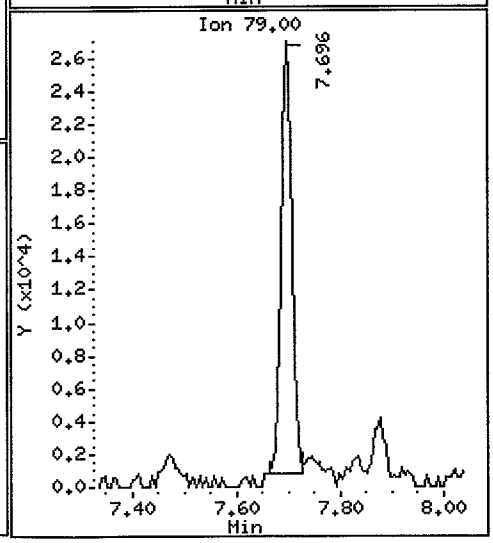


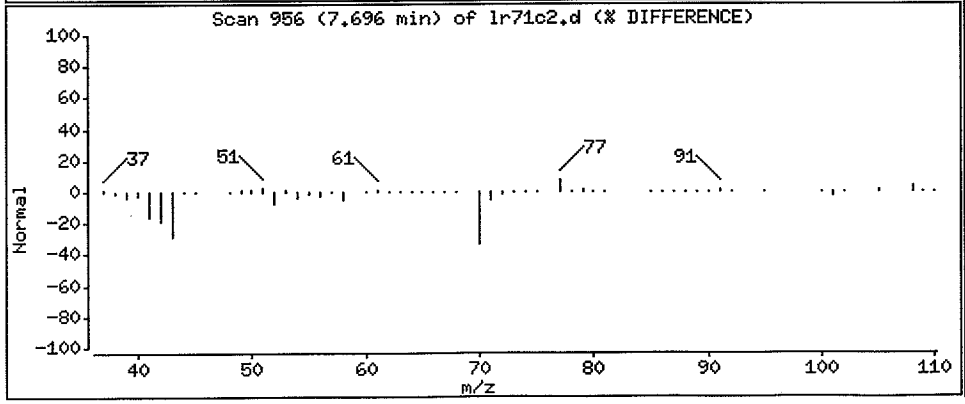












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

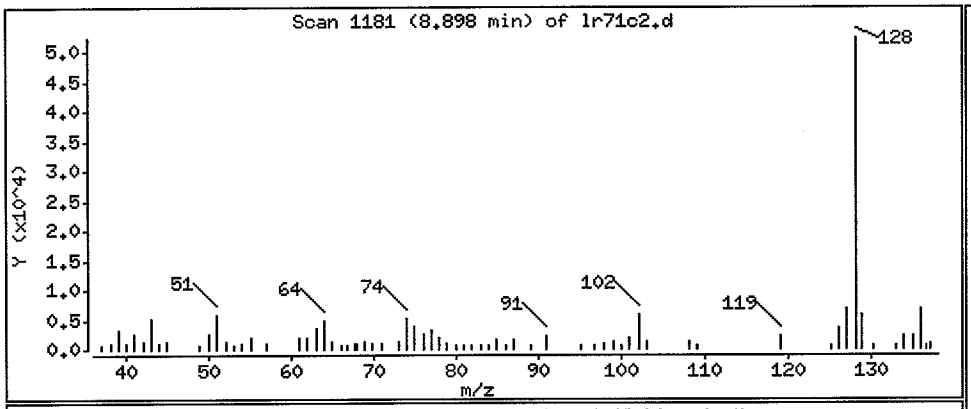
Operator: VTS

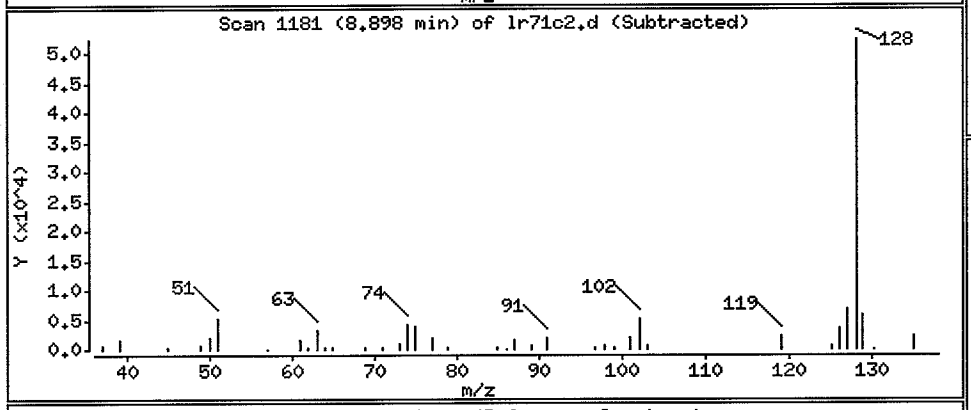
Column phase: ZB-5

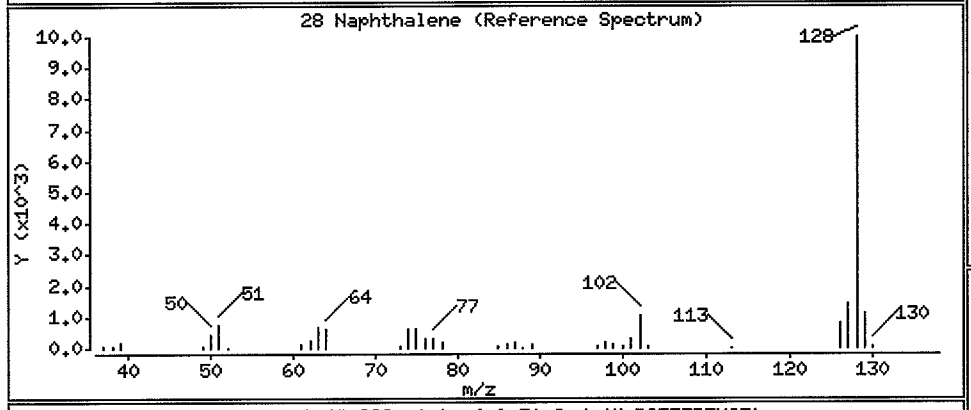
Column diameter: 0.32

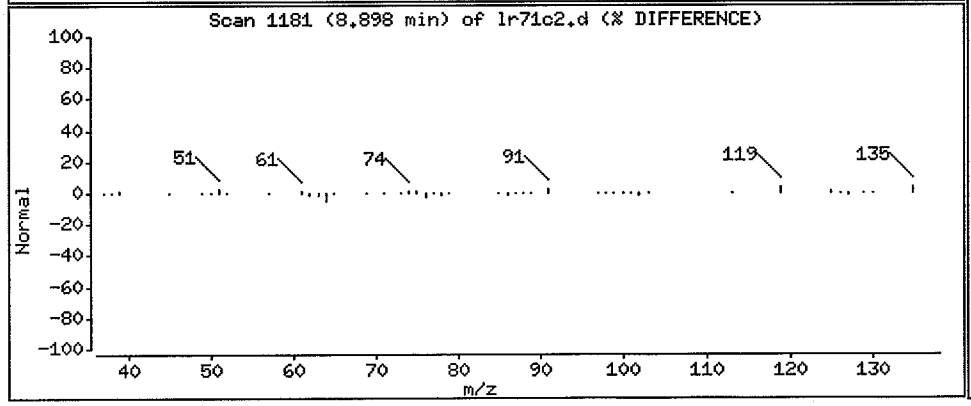
28 Naphthalene

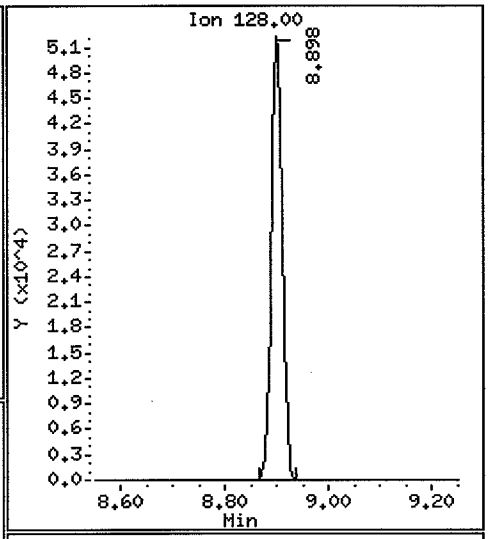
Concentration: 39.50 ug/Kg

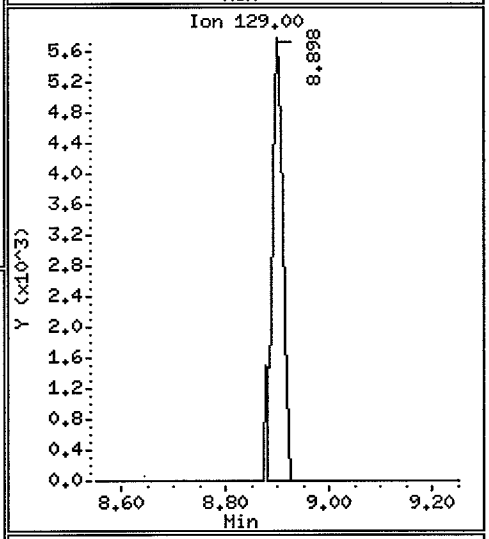


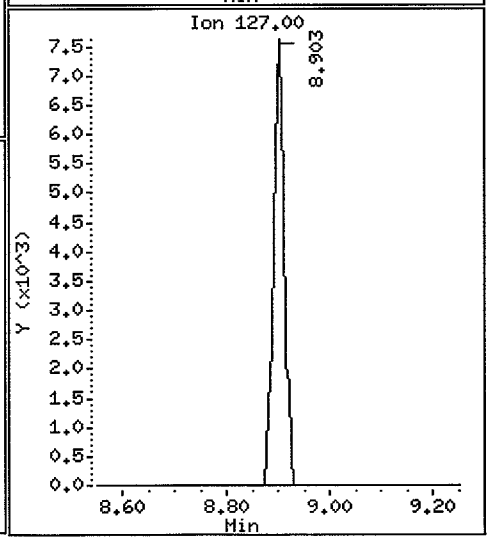












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

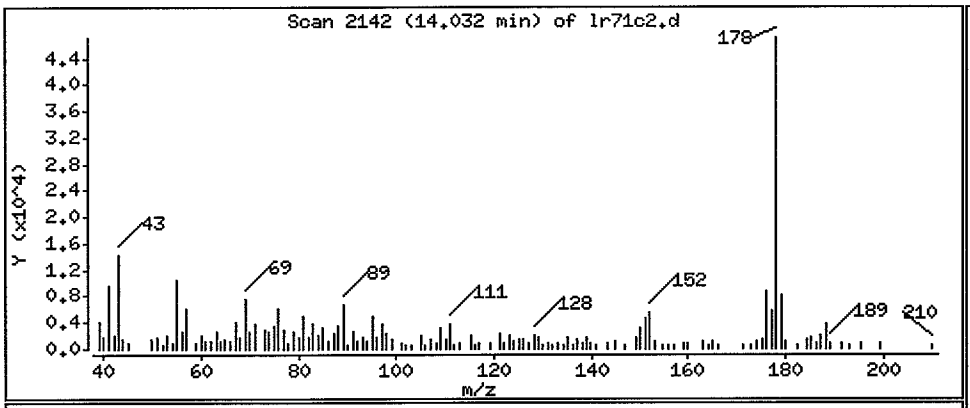
Operator: VTS

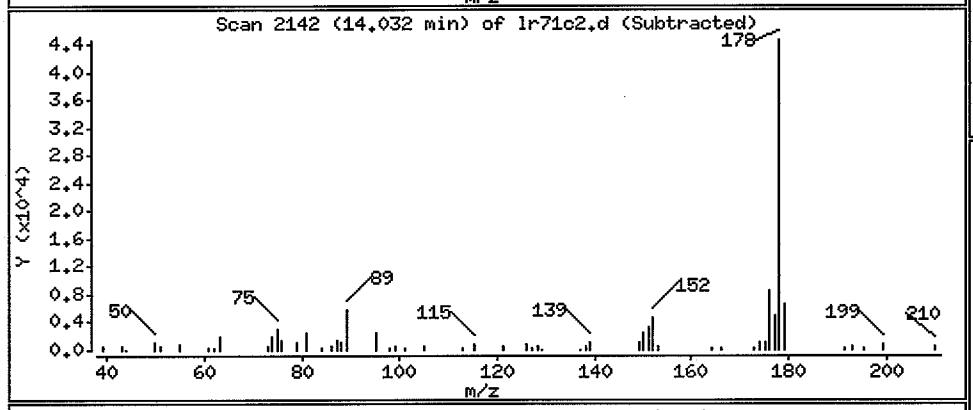
Column phase: ZB-5

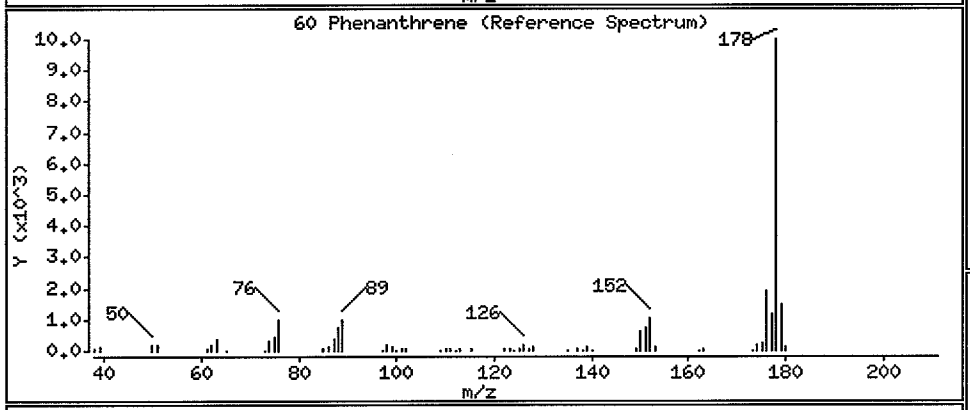
Column diameter: 0.32

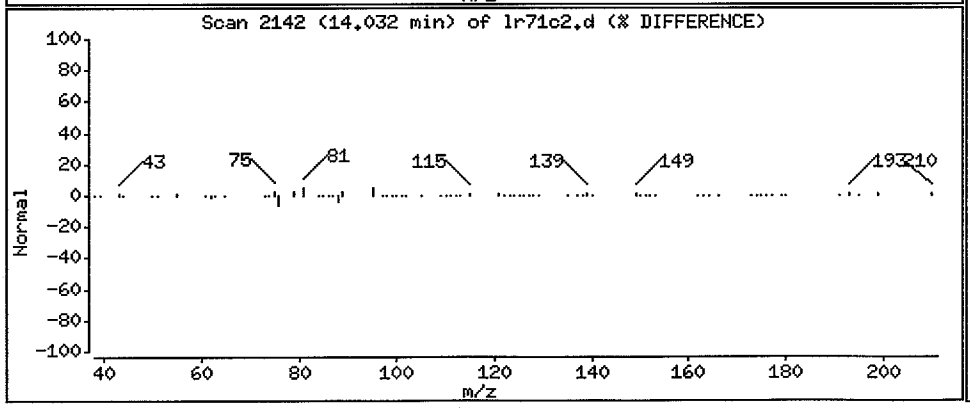
60 Phenanthrene

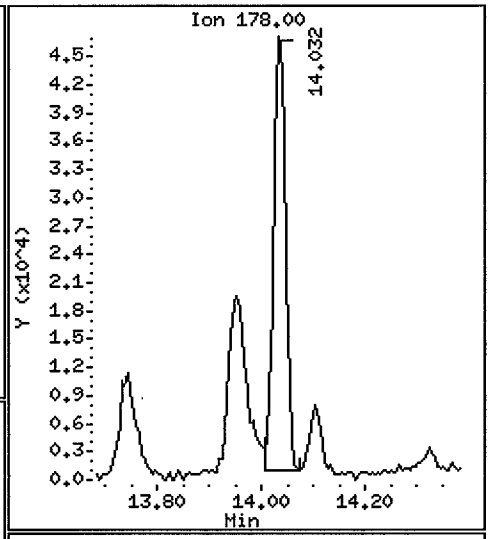
Concentration: 48.85 ug/Kg

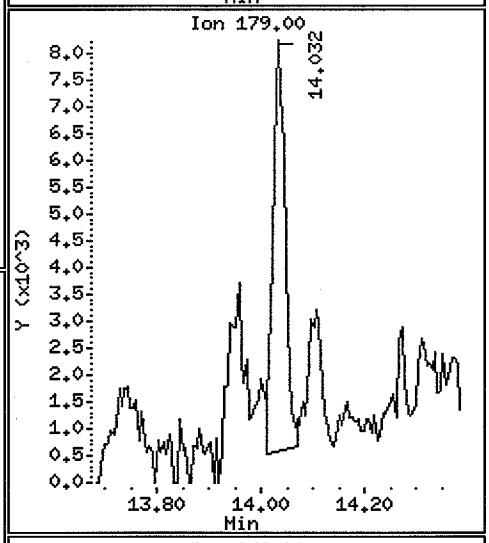


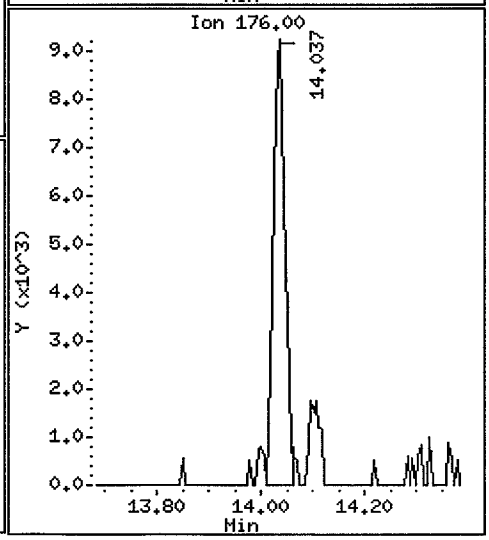












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

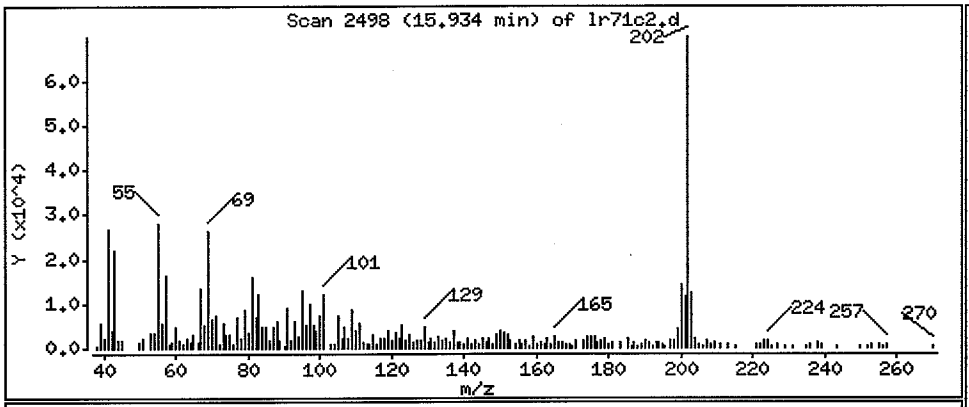
Operator: VTS

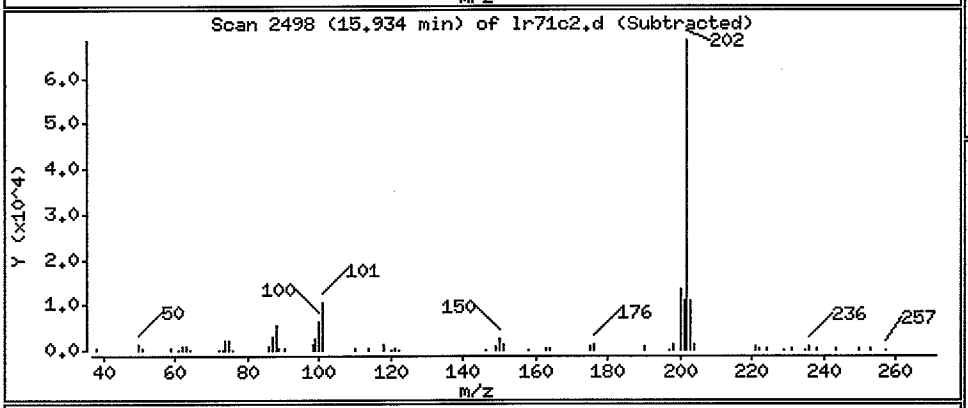
Column phase: ZB-5

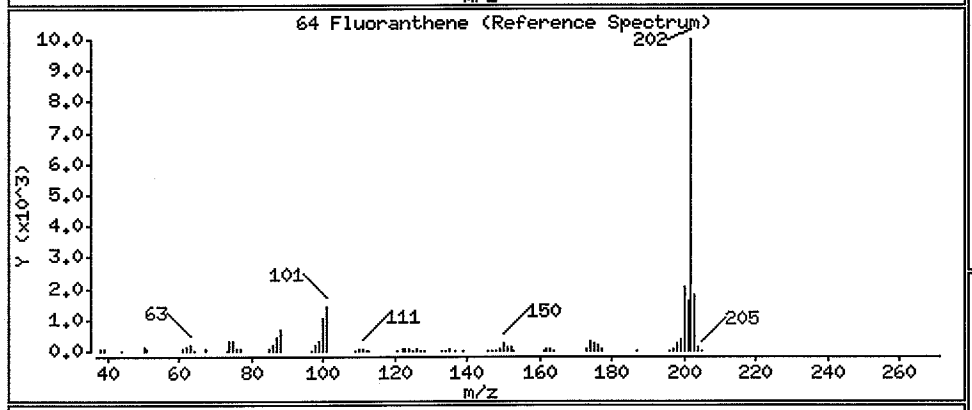
Column diameter: 0.32

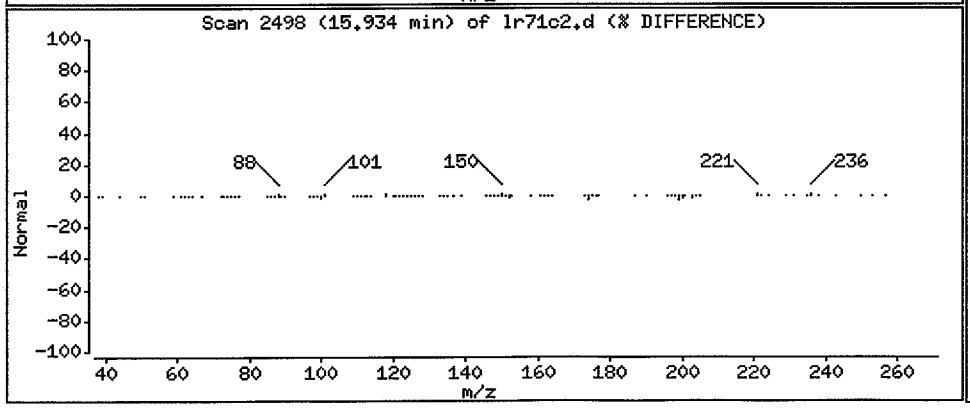
64 Fluoranthene

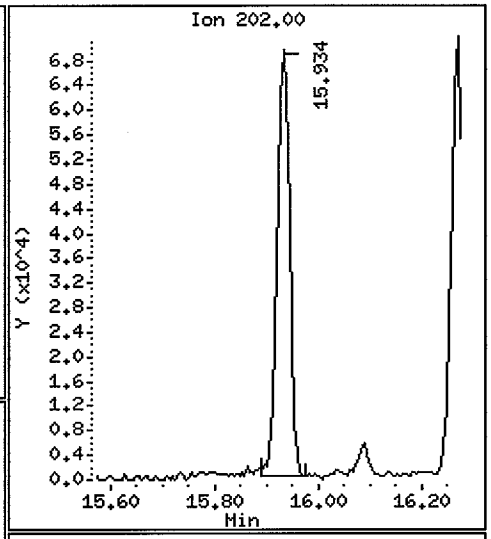
Concentration: 71.58 ug/Kg

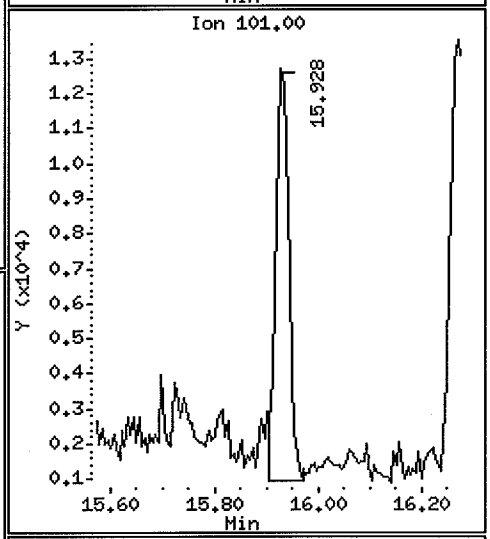


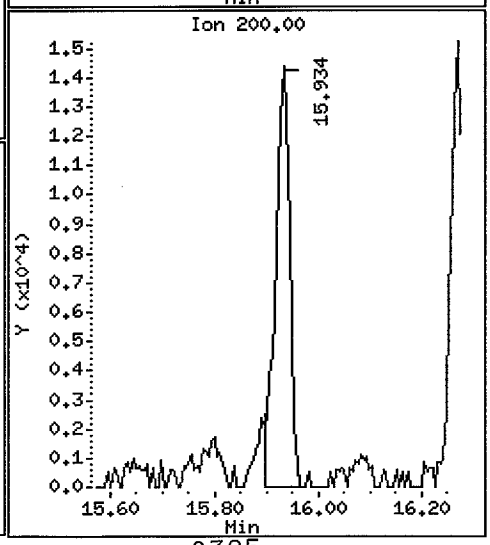












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

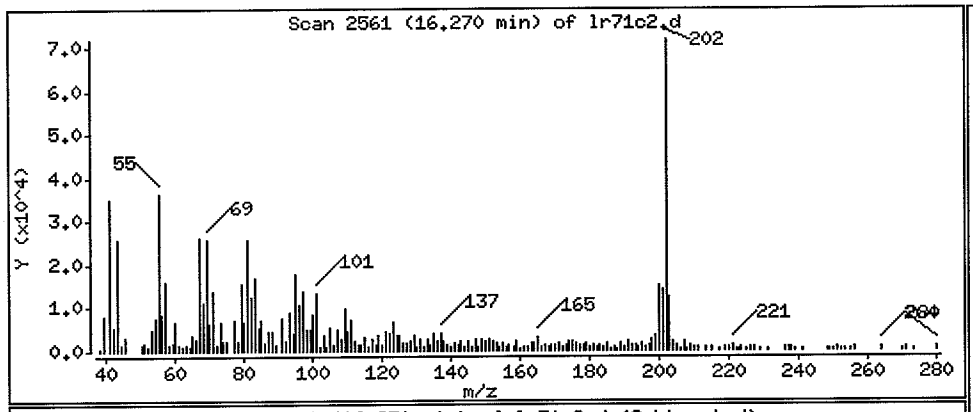
Operator: VTS

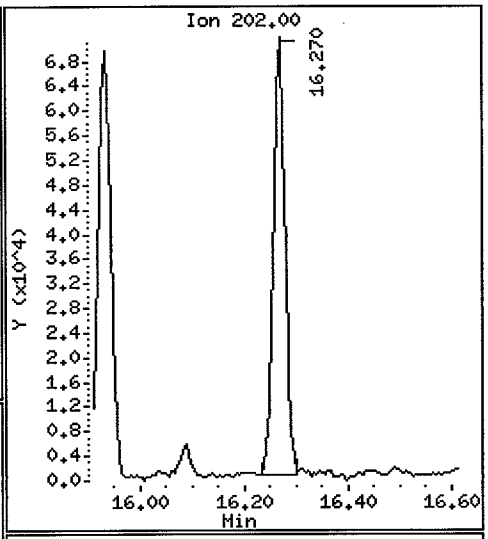
Column phase: ZB-5

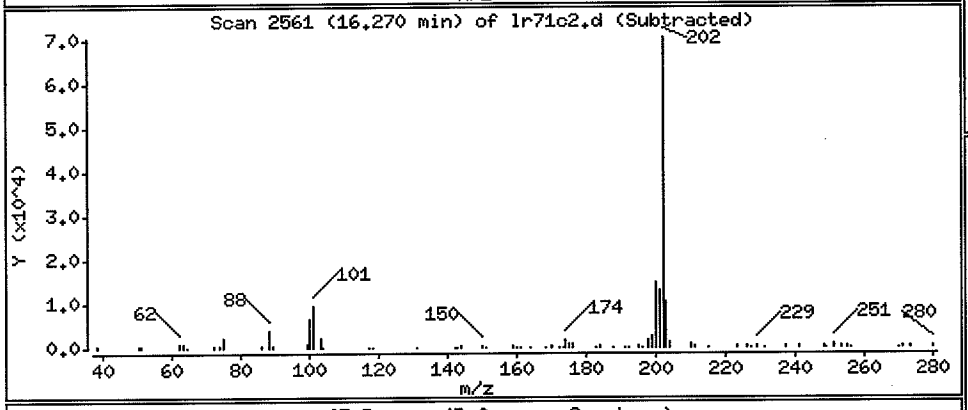
Column diameter: 0.32

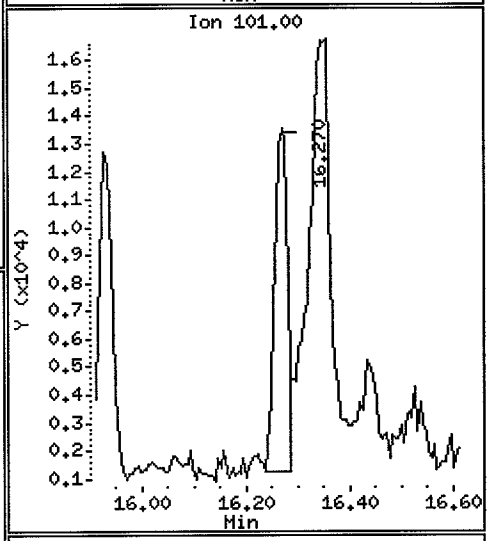
65 Pyrene

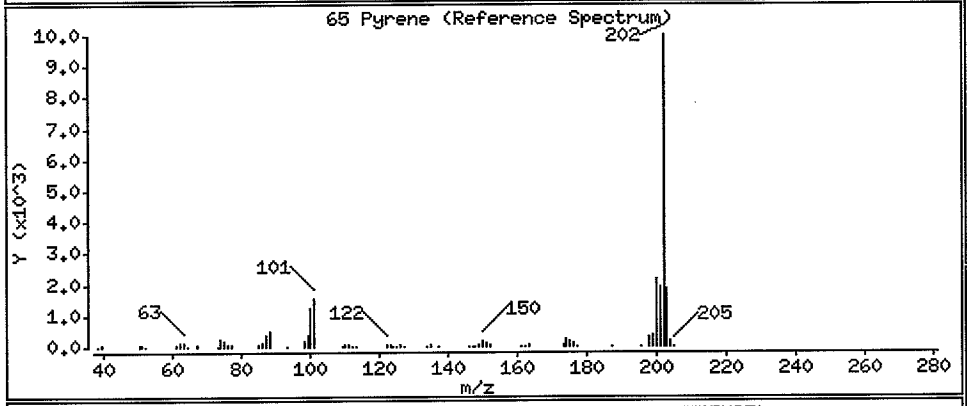
Concentration: 60.42 ug/Kg

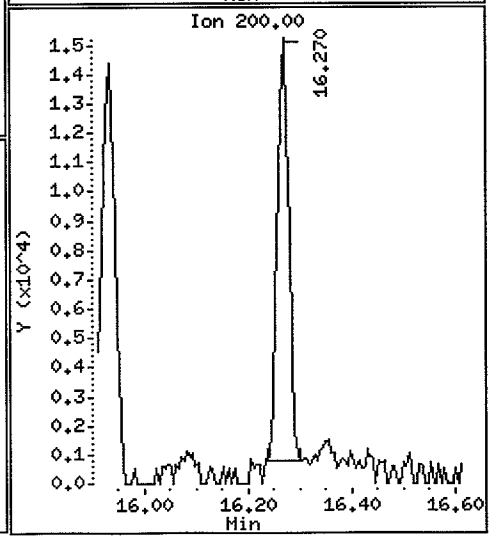


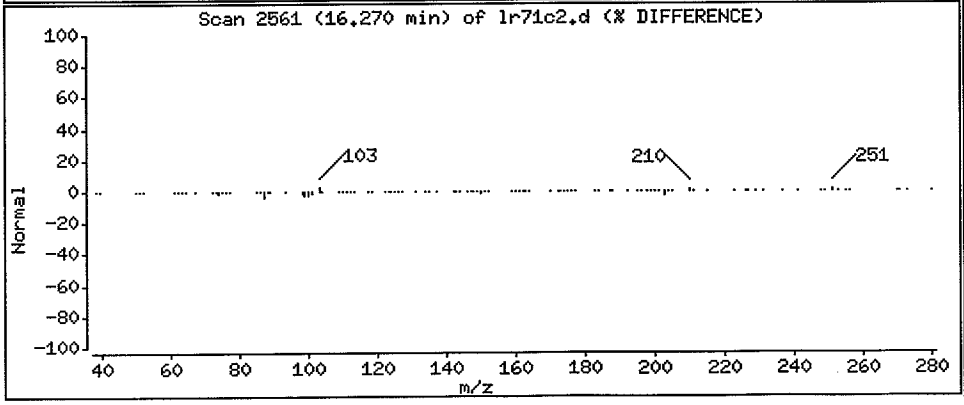












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

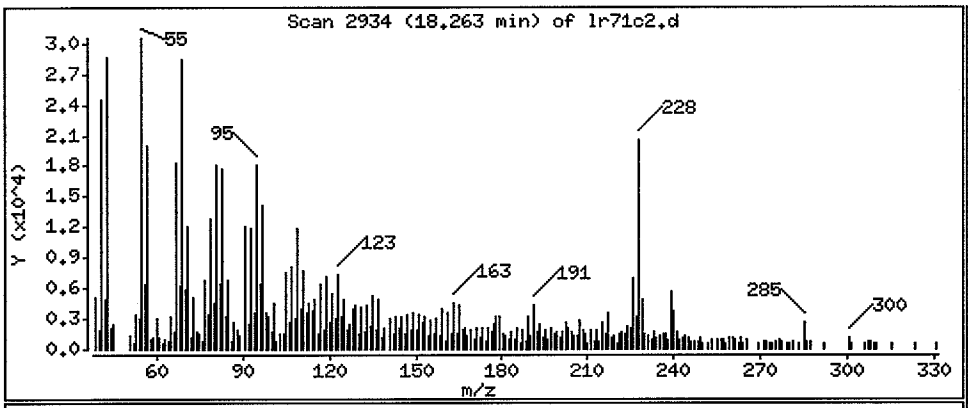
Operator: VTS

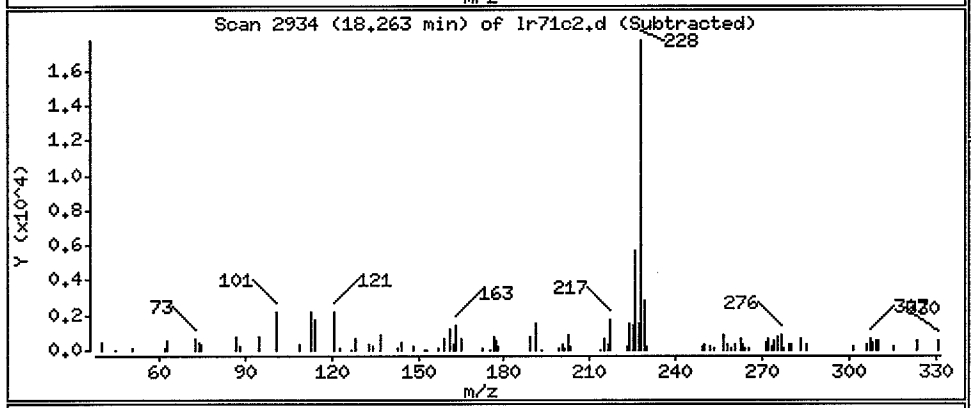
Column phase: ZB-5

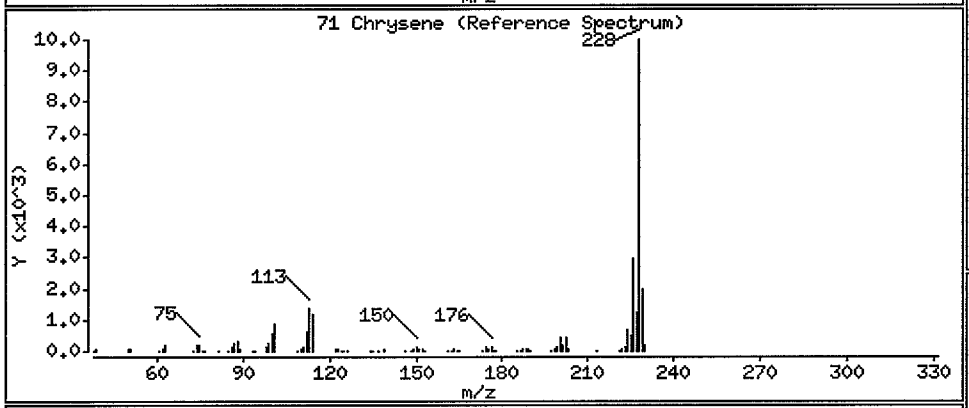
Column diameter: 0.32

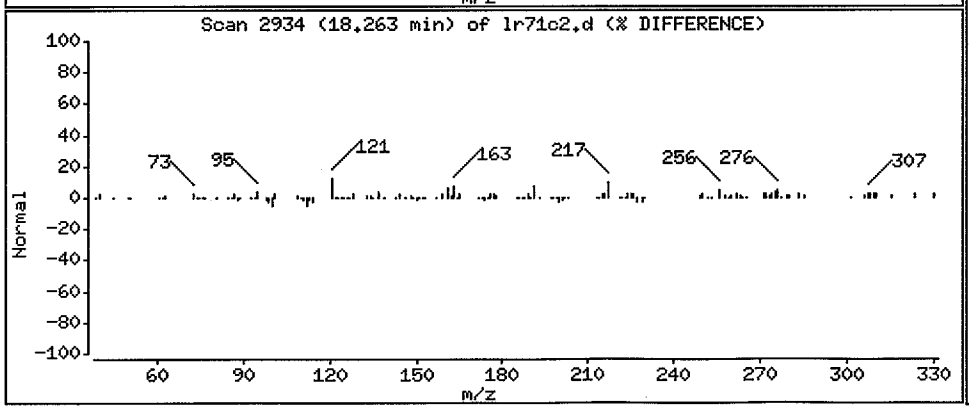
71 Chrysene

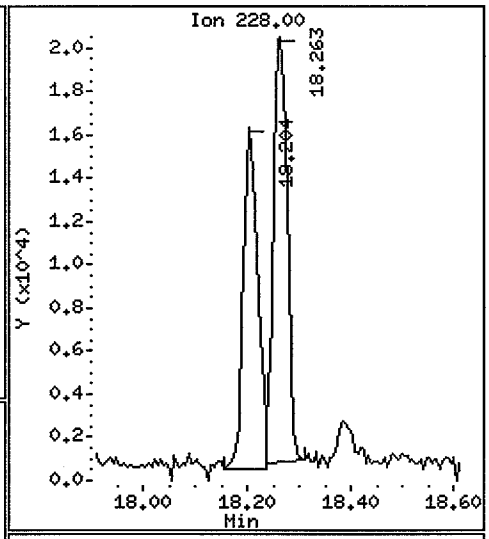
Concentration: 22.32 ug/Kg

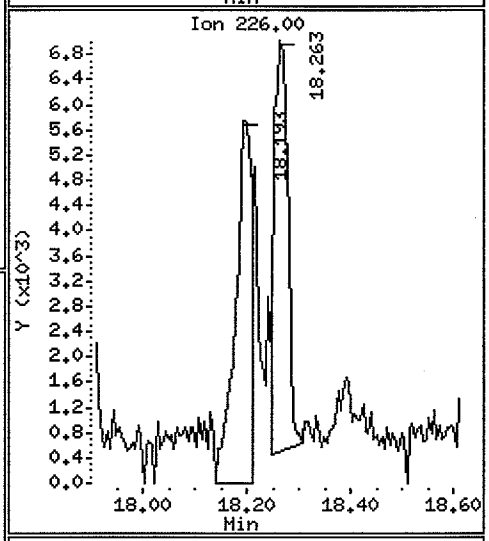


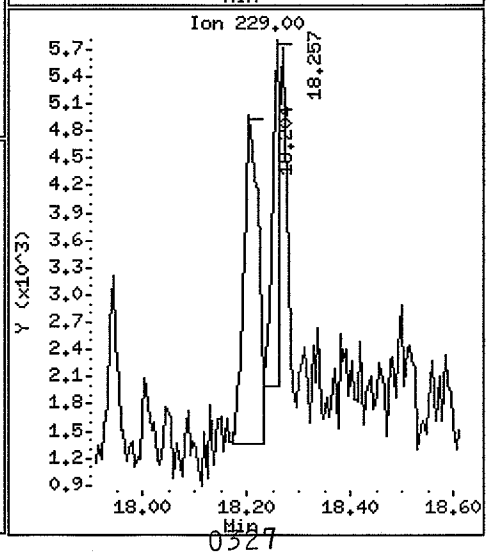












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

Operator: VTS

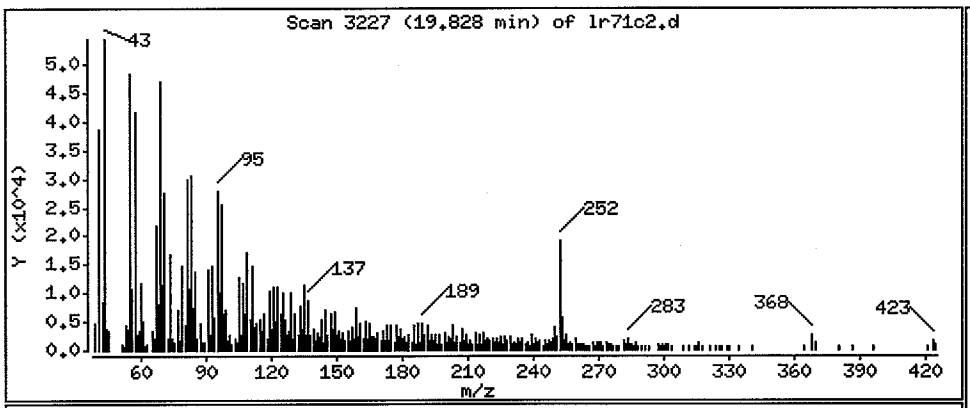
Column phase: ZB-5

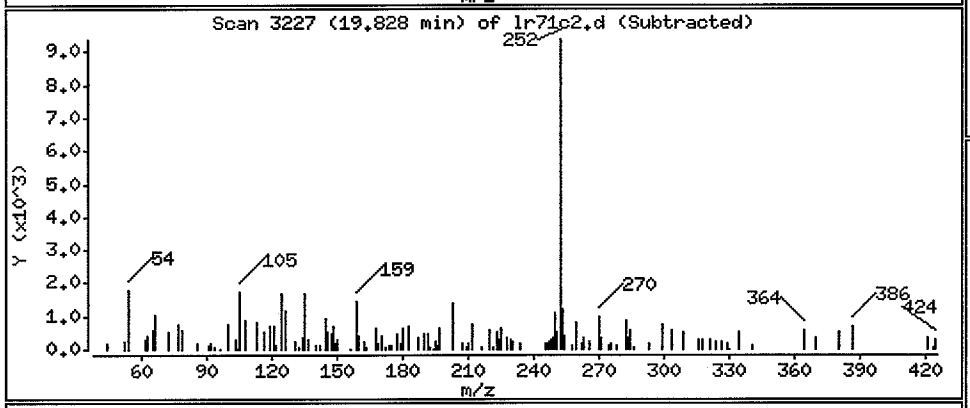
Column diameter: 0.32

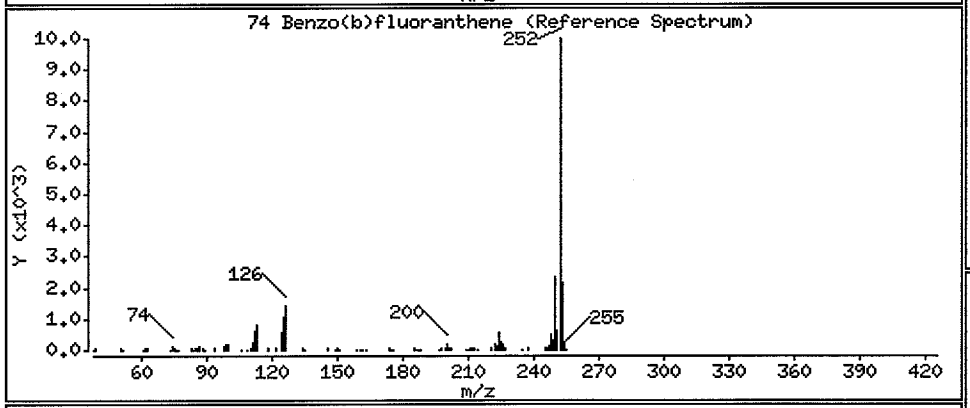
11/2/07

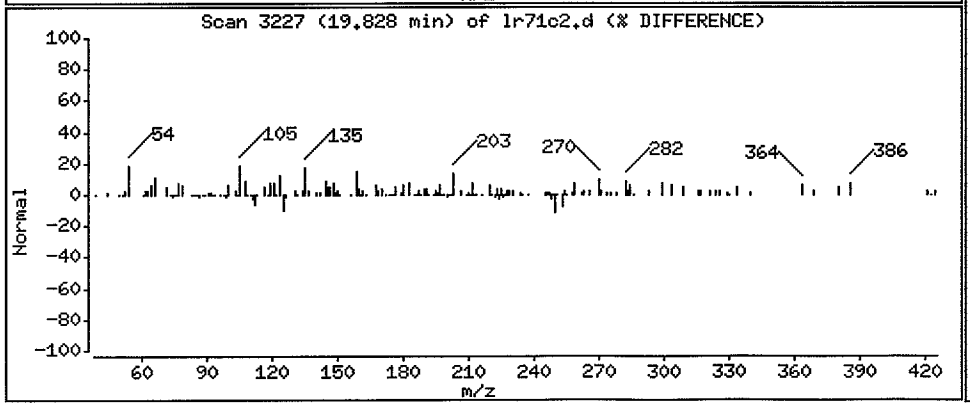
74 Benzo(b)fluoranthene

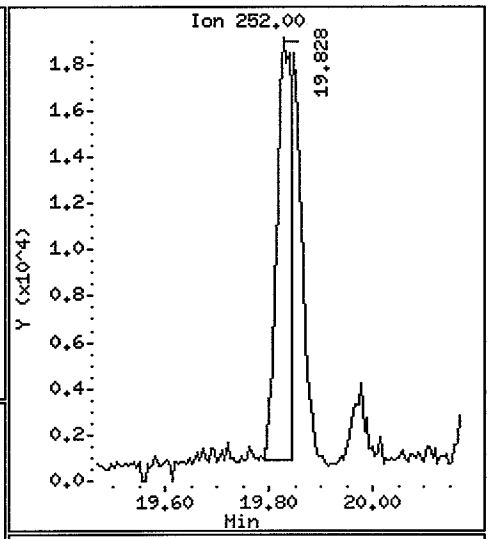
Concentration: 21.84 ug/Kg

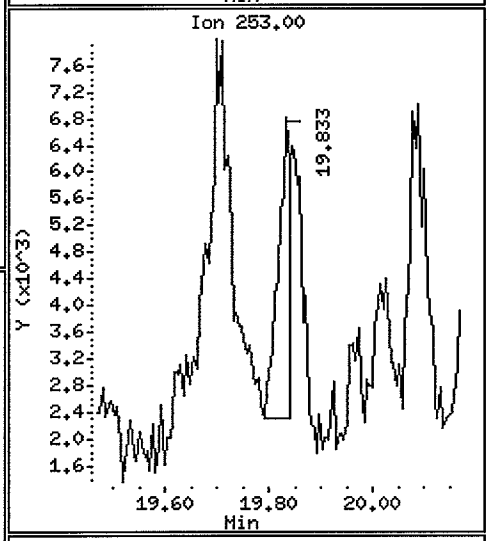


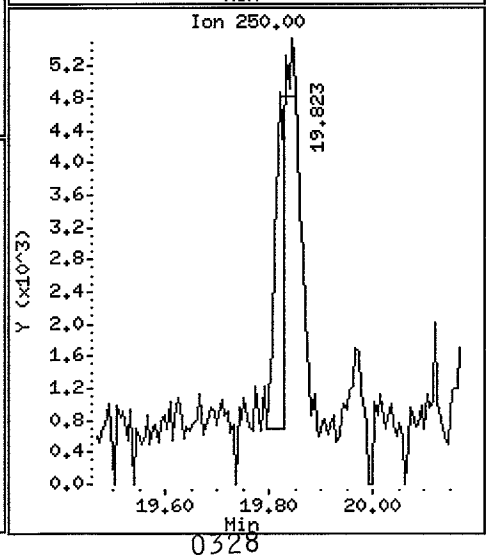












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

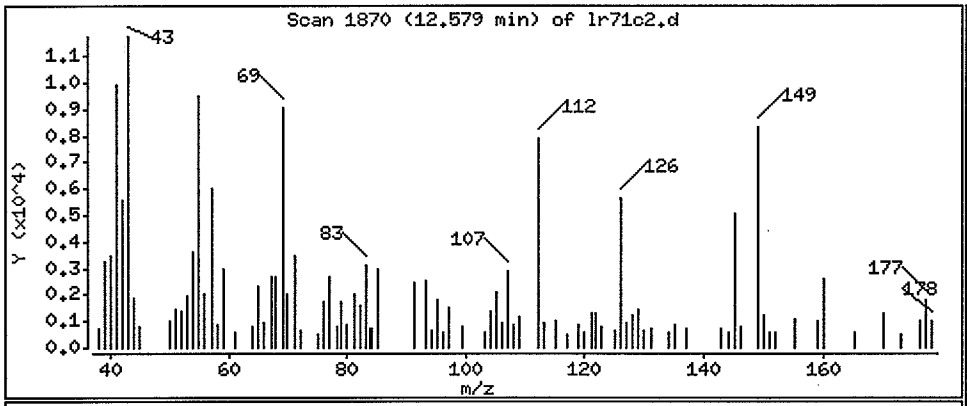
Operator: VTS

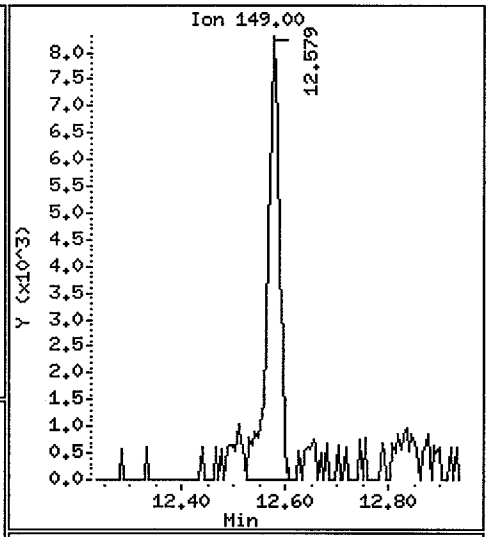
Column phase: ZB-5

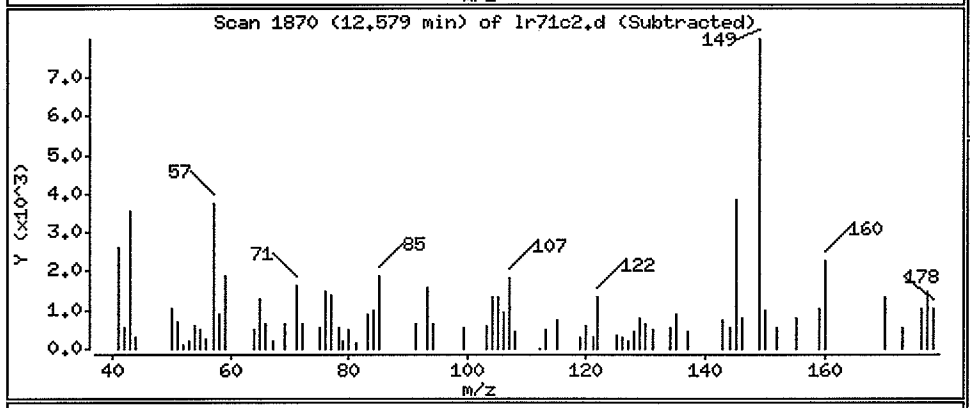
Column diameter: 0.32

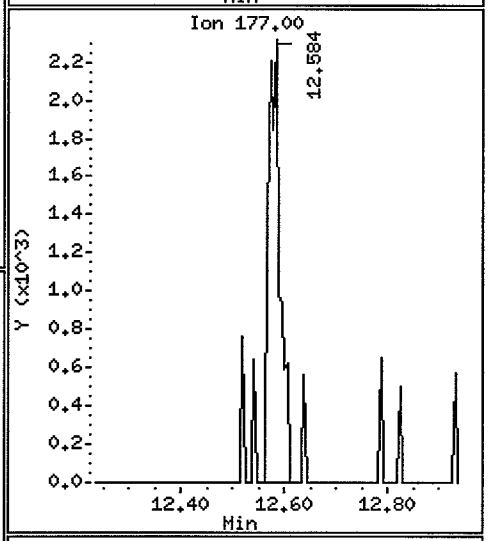
50 Diethylphthalate

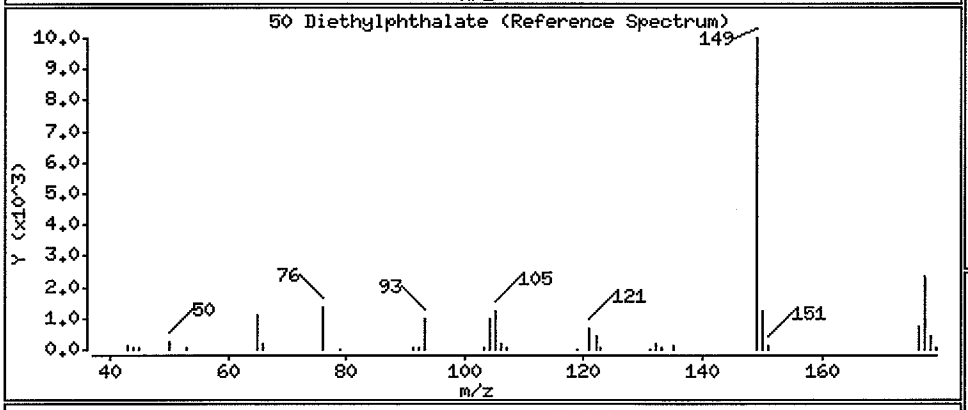
Concentration: 12.02 ug/Kg

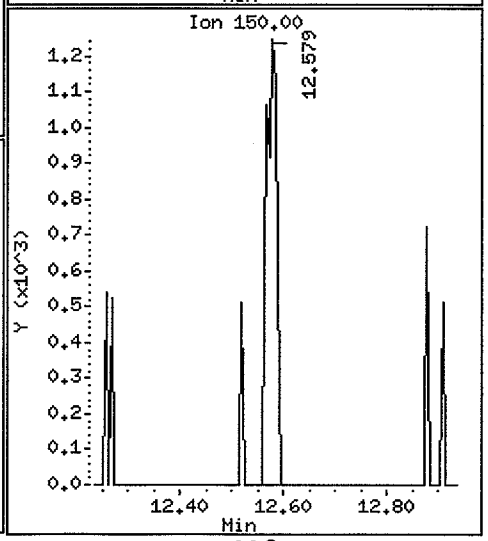


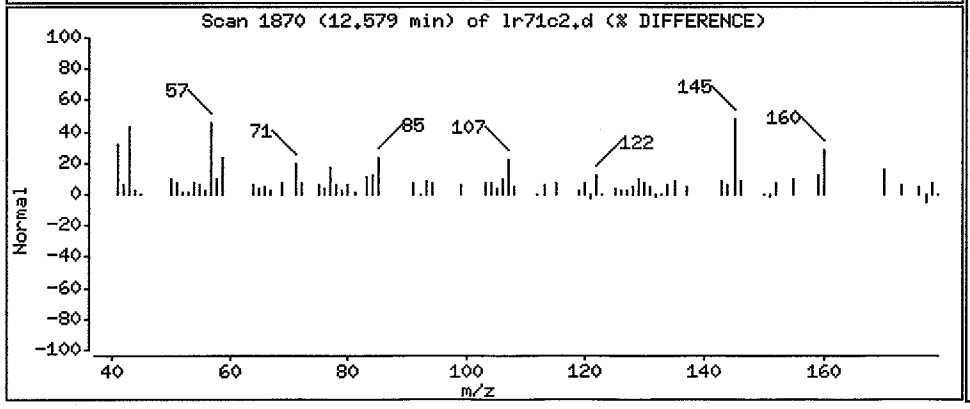












Data File: /chem3/nt4.i/20071101.b/lr71c2.d

Date : 01-NOV-2007 17:42

Client ID:

Instrument: nt4.i

Sample Info: LR71CRE

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5

Column diameter: 0.32

68 Benzo(a)anthracene

Concentration: 18.45 ug/Kg

