

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081517\
 Data File : BF097699.D
 Acq On : 15 Aug 2017 19:03
 Operator : SJ/JU
 Sample : I4754-01MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

Quant Time: Aug 16 03:53:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	132774	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	531790	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	243841	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	470128	20.00	ng	0.00
75) Chrysene-d12	13.94	240	283606	20.00	ng	0.00
86) Perylene-d12	15.36	264	266098	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	844206	96.71	ng	0.00
7) Phenol-d6	6.42	99	1160448	97.84	ng	0.00
23) Nitrobenzene-d5	7.35	82	698649	71.37	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	217599	102.85	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	949402	57.20	ng	0.00
78) Terphenyl-d14	12.89	244	792129	58.24	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.51	88	117548	24.15	ng	91
3) Pyridine	3.23	79	332703	24.72	ng	88
4) n-Nitrosodimethylamine	3.17	42	149984	28.96	ng	84
6) Aniline	6.45	93	426630	25.61	ng	97
8) 2-Chlorophenol	6.57	128	286514	31.12	ng	98
9) Benzaldehyde	6.33	77	137771	18.34	ng	85
10) Phenol	6.43	94	465305	33.55	ng	92
11) bis(2-Chloroethyl)ether	6.52	93	313033	29.90	ng	97
12) 1,3-Dichlorobenzene	6.72	146	278141	28.09	ng	# 91
13) 1,4-Dichlorobenzene	6.80	146	282980	28.10	ng	# 95
14) 1,2-Dichlorobenzene	6.96	146	271961	29.29	ng	99
15) Benzyl Alcohol	6.92	79	302211	34.03	ng	94
16) 2,2'-oxybis(1-Chloropropan	7.06	45	430890	30.59	ng	92
17) 2-Methylphenol	7.03	107	263015	32.42	ng	96
18) Hexachloroethane	7.30	117	114738	29.06	ng	# 79
19) n-Nitroso-di-n-propylamine	7.20	70	242447	29.86	ng	91
20) 3+4-Methylphenols	7.19	107	325281	32.83	ng	# 88
22) Acetophenone	7.19	105	427947	30.46	ng	# 90
24) Nitrobenzene	7.36	77	366312	33.61	ng	91
25) Isophorone	7.60	82	663812	32.61	ng	96
26) 2-Nitrophenol	7.68	139	135816	35.88	ng	# 73
27) 2,4-Dimethylphenol	7.72	122	265867	31.32	ng	93
28) bis(2-Chloroethoxy)methane	7.82	93	408129	30.50	ng	99
29) 2,4-Dichlorophenol	7.92	162	224867	31.91	ng	94
30) 1,2,4-Trichlorobenzene	8.01	180	223527	28.61	ng	97
31) Naphthalene	8.09	128	816248	29.57	ng	99
32) Benzoic acid	7.82	122	147022	27.00	ng	88
33) 4-Chloroaniline	8.13	127	302014	25.94	ng	98
34) Hexachlorobutadiene	8.21	225	128665	28.21	ng	98
35) Caprolactam	8.53	113	30627	12.78	ng	93
36) 4-Chloro-3-methylphenol	8.62	107	283982	31.37	ng	# 79
37) 2-Methylnaphthalene	8.78	142	531116	31.38	ng	98
39) 1,2,4,5-Tetrachlorobenzene	8.95	216	212875	28.45	ng	# 97
40) Hexachlorocyclopentadiene	8.93	237	228898	63.67	ng	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.06	196	155463	30.94	nq	97
43) 2,4,5-Trichlorophenol	9.09	196	165529	33.21	nq	96
45) 1,1'-Biphenyl	9.25	154	635600	28.58	nq	96
46) 2-Chloronaphthalene	9.27	162	466070	28.37	nq	# 92
47) 2-Nitroaniline	9.36	65	181837	33.01	nq	97
48) Acenaphthylene	9.68	152	776910	30.11	nq	100
49) Dimethylphthalate	9.55	163	673284	37.77	nq	99
50) 2,6-Dinitrotoluene	9.60	165	118951	33.43	nq	# 50
51) Acenaphthene	9.86	154	512098	31.47	nq	100
52) 3-Nitroaniline	9.77	138	125549	27.35	nq	# 79
53) 2,4-Dinitrophenol	9.87	184	90862	57.02	nq	# 78
54) Dibenzofuran	10.03	168	695789	31.91	nq	100
55) 4-Nitrophenol	9.93	139	218401	59.64	nq	# 35
56) 2,4-Dinitrotoluene	10.00	165	159318	35.68	nq	# 49
57) Fluorene	10.37	166	504510	29.92	nq	97
58) 2,3,4,6-Tetrachlorophenol	10.14	232	138338	35.85	nq	94
59) Diethylphthalate	10.25	149	596148	31.98	nq	100
60) 4-Chlorophenyl-phenylether	10.36	204	235671	30.09	nq	89
61) 4-Nitroaniline	10.39	138	133108	30.51	nq	# 72
62) Azobenzene	10.52	77	722422	32.63	nq	92
64) 4,6-Dinitro-2-methylphenol	10.41	198	64904	32.54	nq	88
65) n-Nitrosodiphenylamine	10.48	169	475725	29.72	nq	99
66) 4-Bromophenyl-phenylether	10.85	248	145667	29.84	nq	98
67) Hexachlorobenzene	10.92	284	140781	28.29	nq	# 92
68) Atrazine	11.01	200	142376	33.53	nq	97
69) Pentachlorophenol	11.10	266	176239	60.74	nq	98
70) Phenanthrene	11.33	178	752356	30.03	nq	100
71) Anthracene	11.38	178	767613	30.21	nq	99
72) Carbazole	11.53	167	709103	29.40	nq	99
73) Di-n-butylphthalate	11.87	149	915618	32.96	nq	99
74) Fluoranthene	12.51	202	745028	28.49	nq	98
77) Pyrene	12.74	202	744216	32.08	nq	99
79) Butylbenzylphthalate	13.37	149	335486	37.72	nq	# 68
80) Benzo(a)anthracene	13.93	228	508372	29.91	nq	100
81) 3,3'-Dichlorobenzidine	13.89	252	158551	27.64	nq	# 96
82) Chrysene	13.96	228	494751	29.26	nq	100
83) Bis(2-ethylhexyl)phthalate	13.93	149	406943	41.29	nq	# 99
84) Di-n-octyl phthalate	14.54	149	677848	39.53	nq	100
85) Indeno(1,2,3-cd)pyrene	16.76	276	521070	41.89	nq	95
87) Benzo(b)fluoranthene	14.96	252	468042	27.90	nq	98
88) Benzo(k)fluoranthene	14.98	252	436504	27.70	nq	# 94
89) Benzo(a)pyrene	15.30	252	445042	29.97	nq	99
90) Dibenzo(a,h)anthracene	16.79	278	427432	35.36	nq	99
91) Benzo(g,h,i)perylene	17.19	276	445662	35.33	nq	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

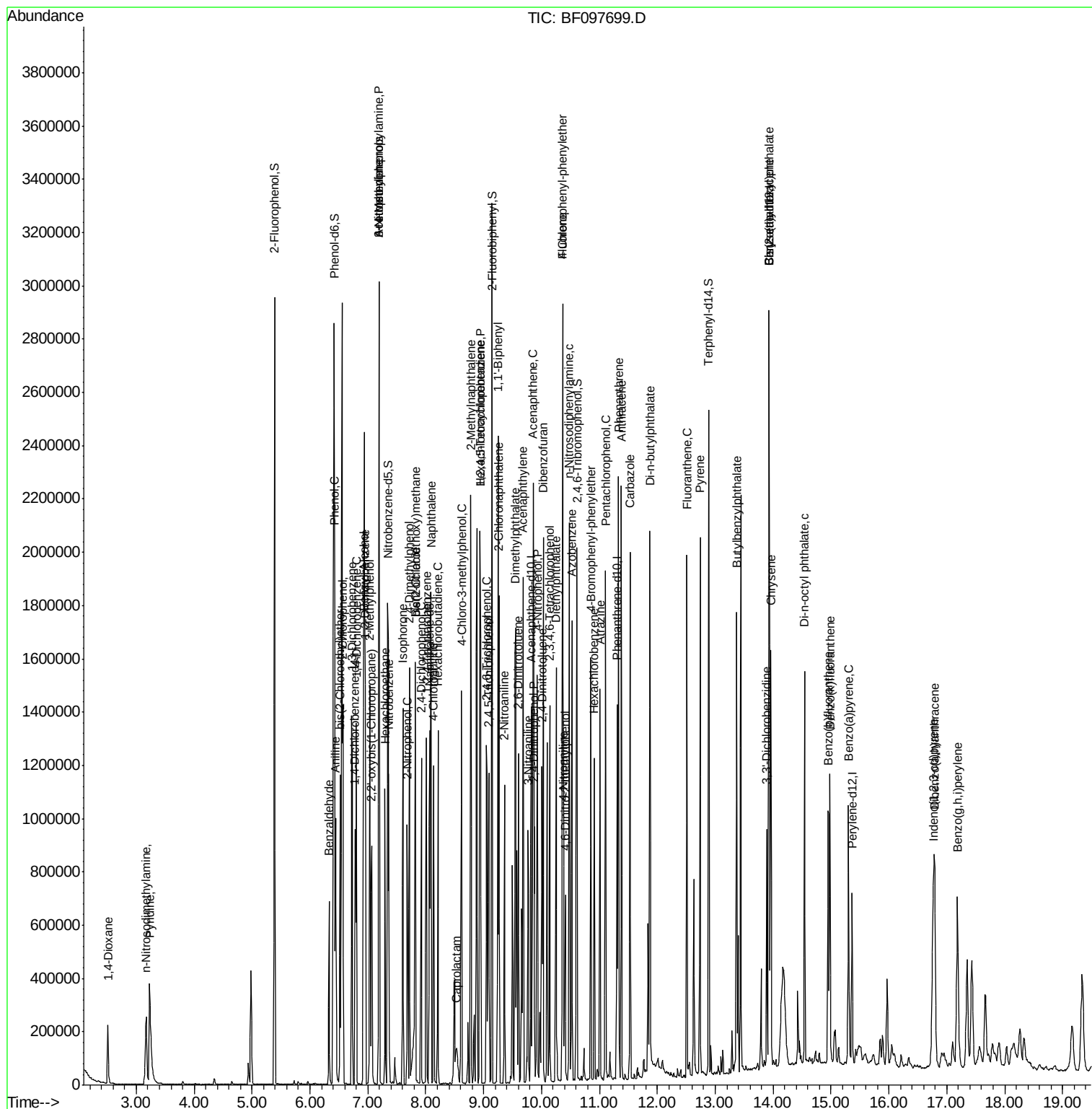
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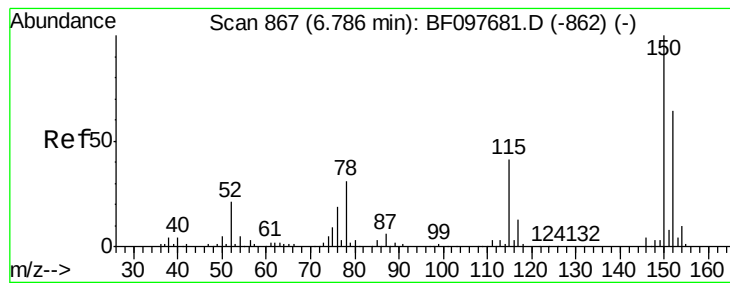
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

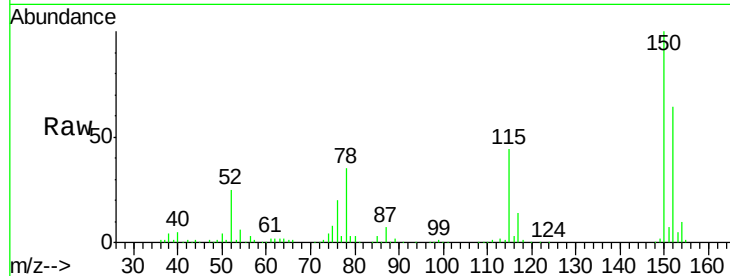
Tot Ion:152 Resp: 132774

Ion Ratio Lower Upper

152 100

150 156.4 126.2 189.2

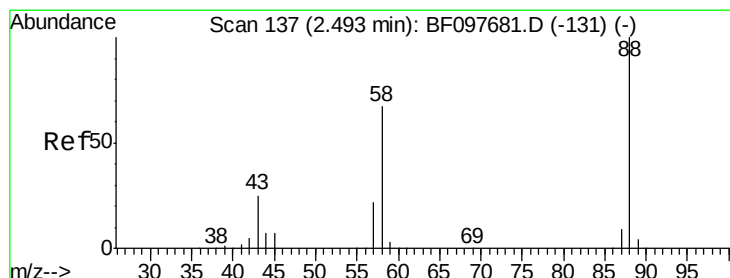
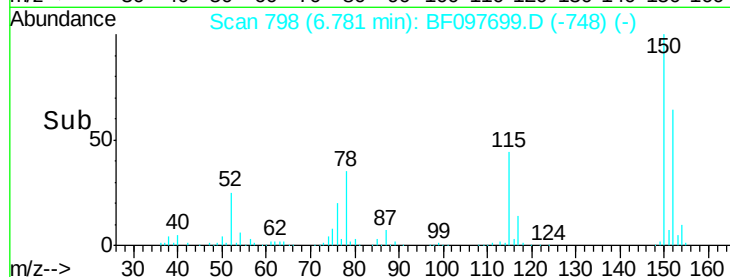
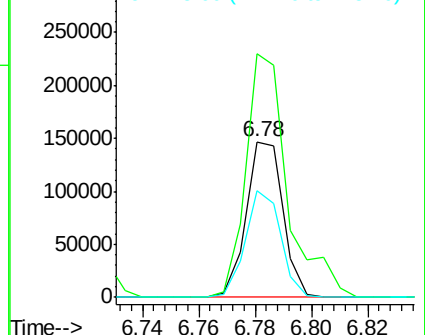
115 68.8 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 24.15 ng

RT: 2.51 min Scan# 72

Delta R.T. 0.02 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

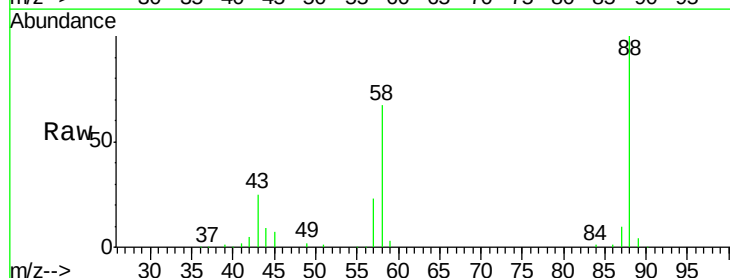
Tgt Ion: 88 Resp: 117548

Ion Ratio Lower Upper

88 100

58 67.9 61.4 92.0

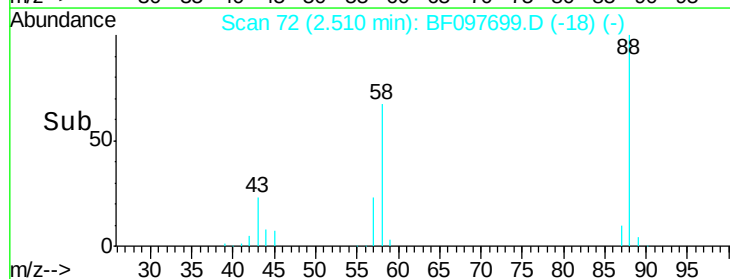
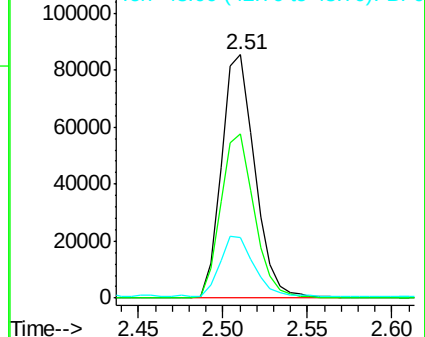
43 25.7 23.4 35.0

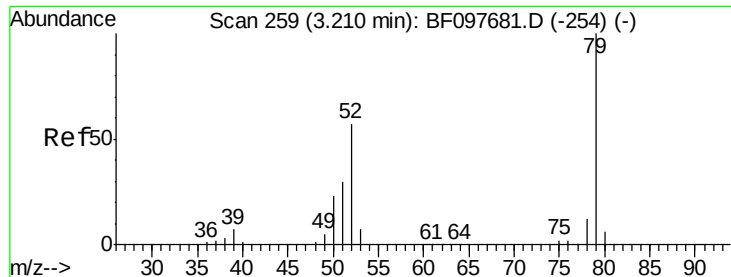


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pvrindine

Concen: 24.72 ng

RT: 3.23 min Scan# 194

Delta R.T. 0.02 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

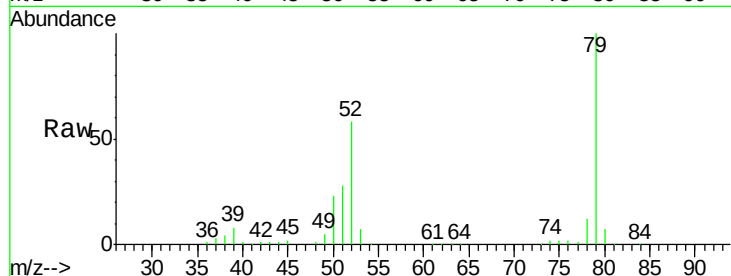
Tot Ion: 79 Resp: 332703

Ion Ratio Lower Upper

79 100

52 57.7 54.8 82.2

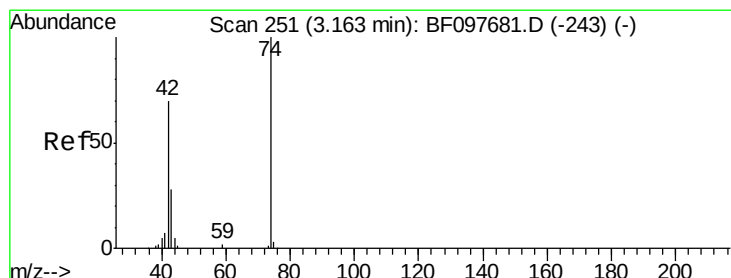
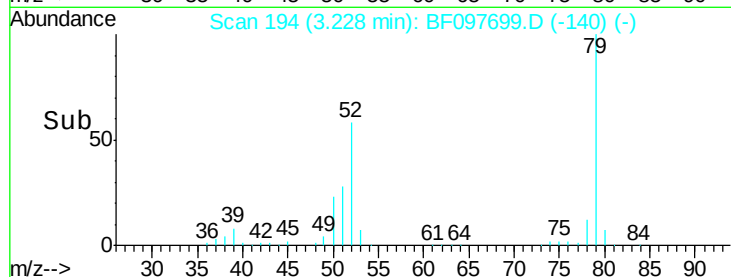
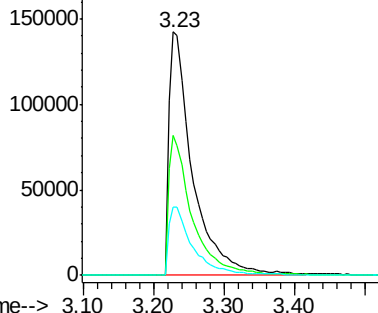
51 28.2 27.0 40.4



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 28.96 ng

RT: 3.17 min Scan# 184

Delta R.T. 0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

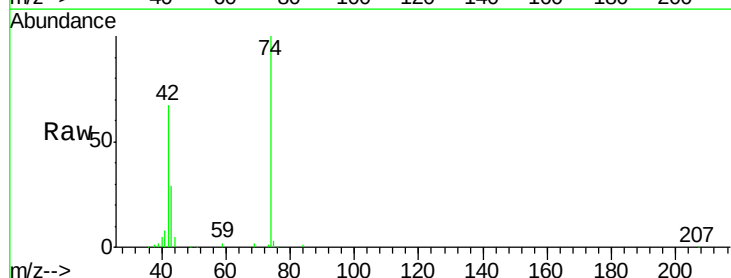
Tgt Ion: 42 Resp: 149984

Ion Ratio Lower Upper

42 100

74 150.0 103.9 155.9

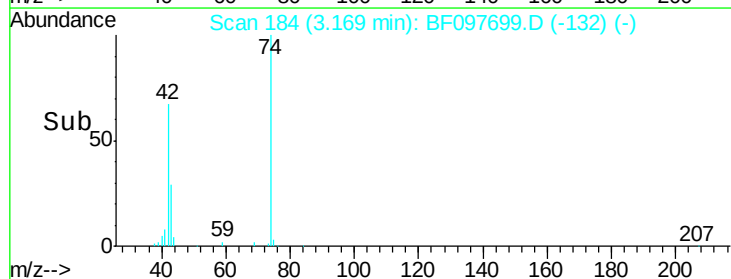
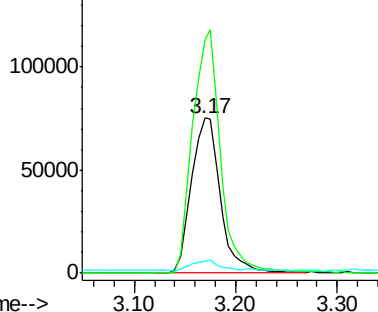
44 7.9 5.7 8.5

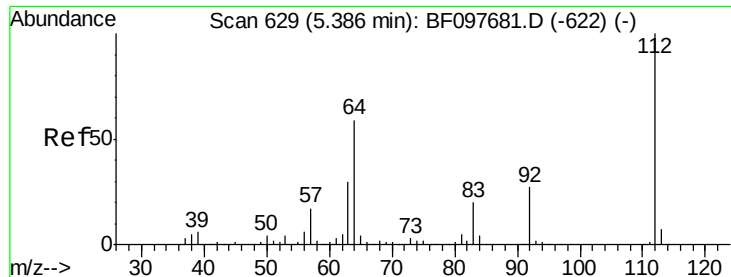


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 96.71 ng

RT: 5.39 min Scan# 562

Delta R.T. 0.01 min

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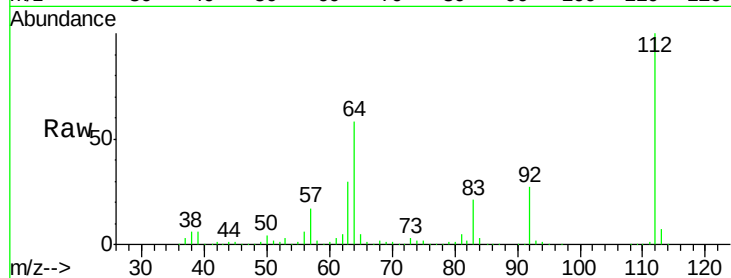
Tot Ion: 112 Resp: 844206

Ion Ratio Lower Upper

112 100

64 58.1 46.0 69.0

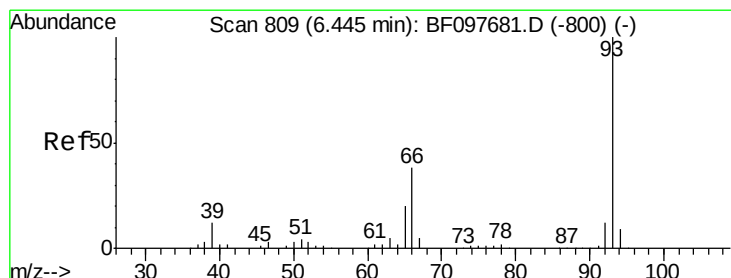
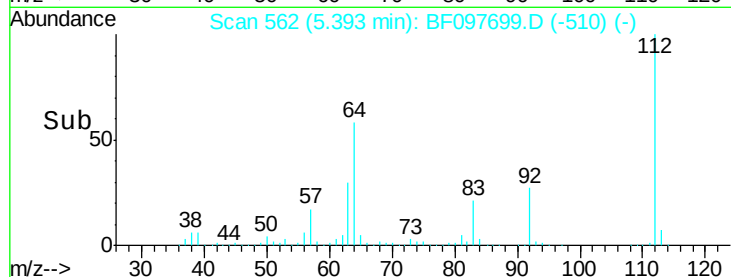
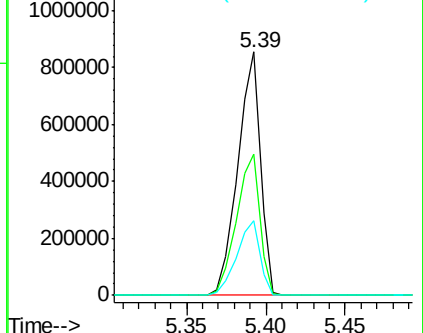
63 30.4 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 25.61 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

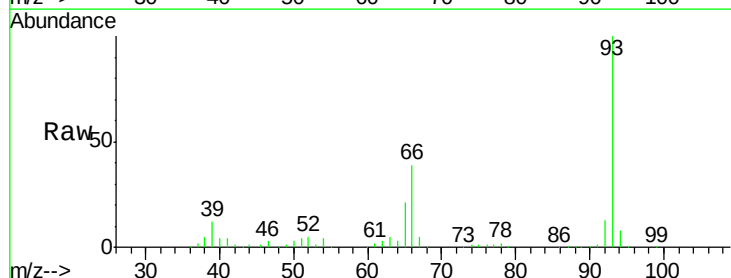
Tgt Ion: 93 Resp: 426630

Ion Ratio Lower Upper

93 100

66 38.9 32.9 49.3

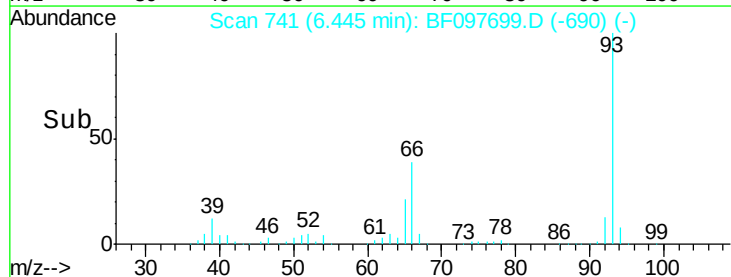
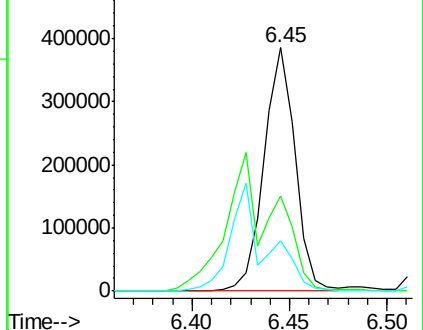
65 20.9 16.0 24.0

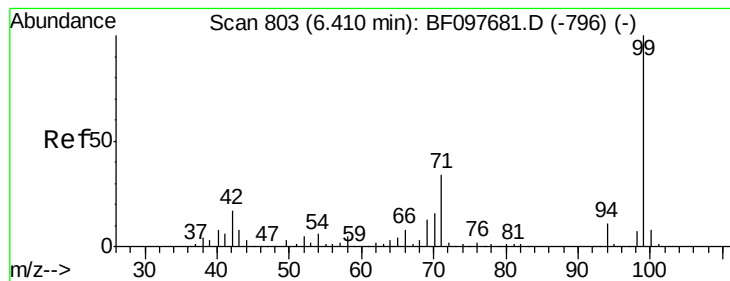


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 97.84 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.01 min

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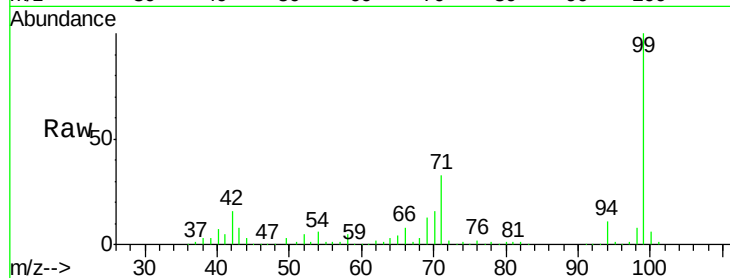
Tot Ion: 99 Resp: 1160448

Ion Ratio Lower Upper

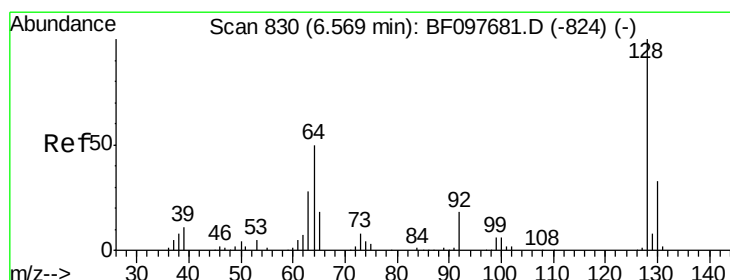
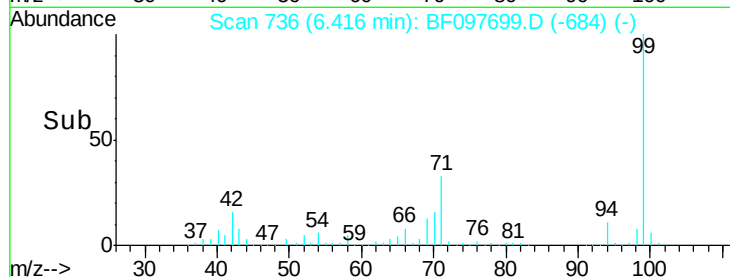
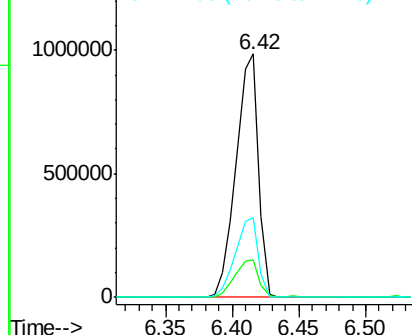
99 100

42 15.6 13.5 20.3

71 32.6 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 31.12 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

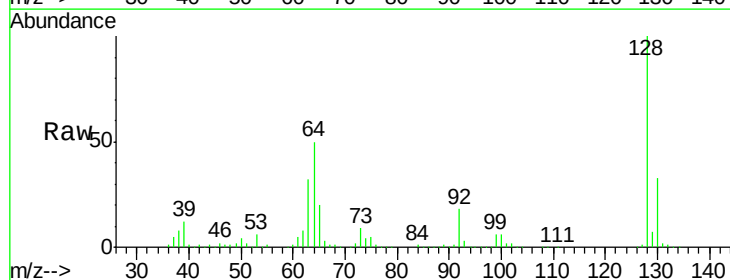
Tgt Ion:128 Resp: 286514

Ion Ratio Lower Upper

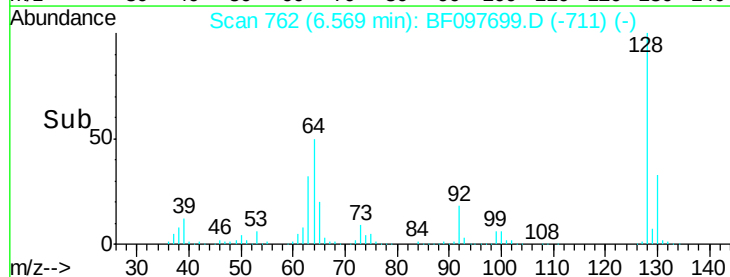
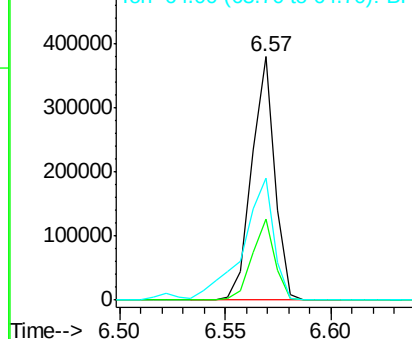
128 100

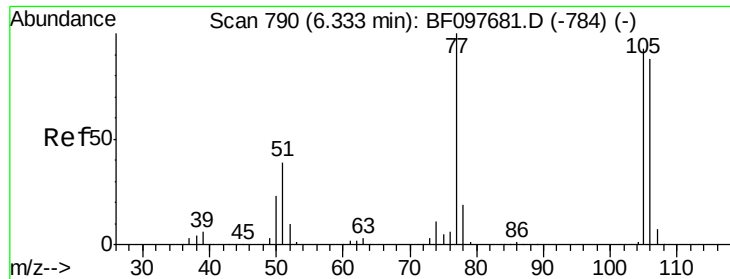
130 33.4 12.9 52.9

64 50.4 28.4 68.4



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 18.34 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

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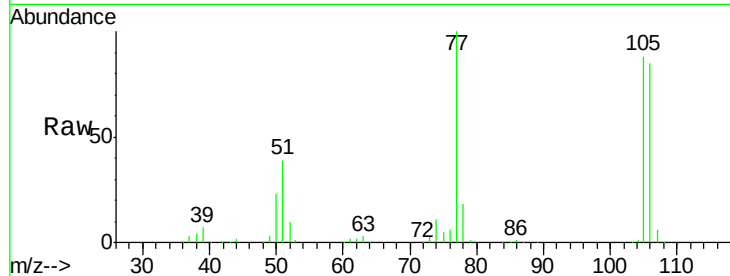
Tot Ion: 77 Resp: 137771

Ion Ratio Lower Upper

77 100

105 88.4 83.8 123.8

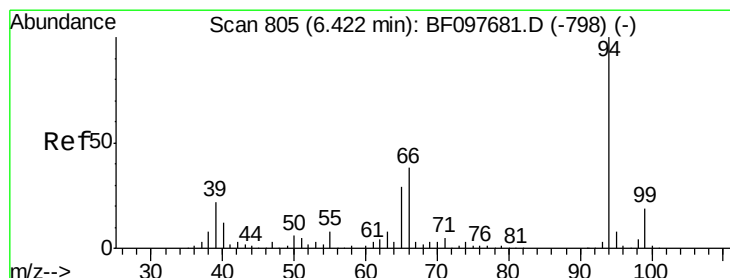
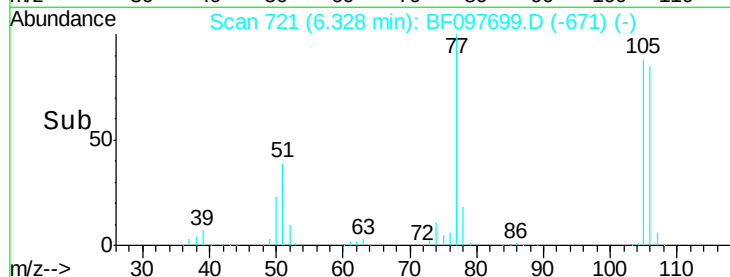
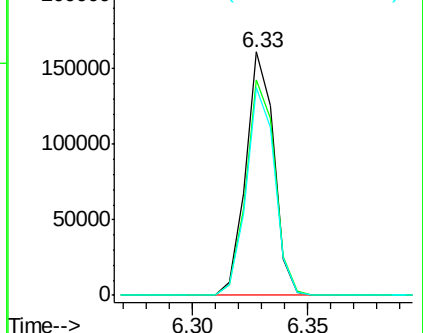
106 85.2 79.1 119.1



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 33.55 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

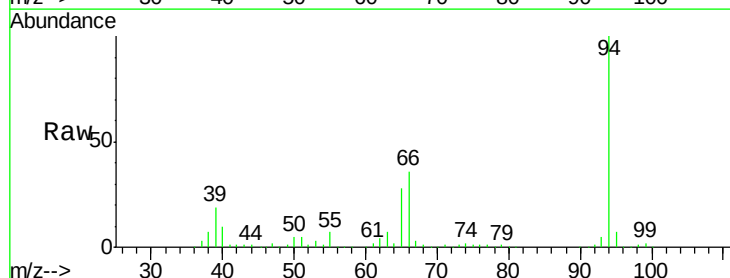
Tgt Ion: 94 Resp: 465305

Ion Ratio Lower Upper

94 100

65 27.8 9.9 49.9

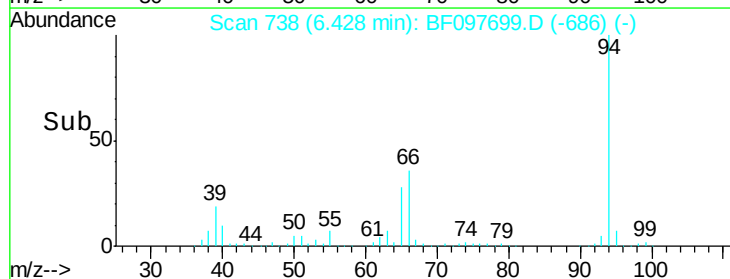
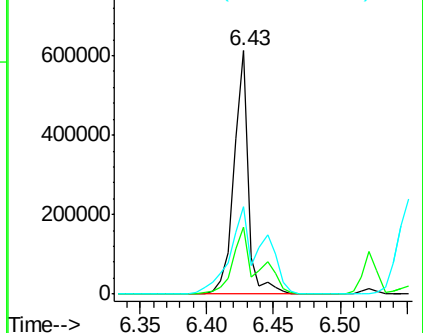
66 36.0 23.1 63.1

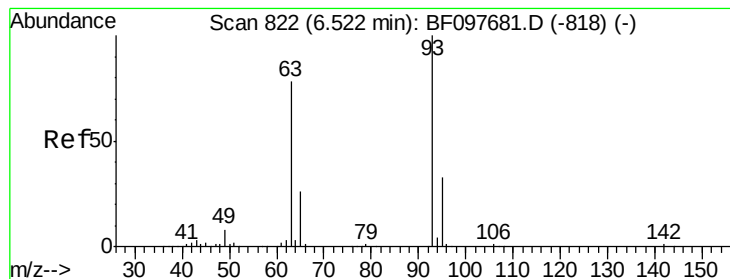


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 29.90 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

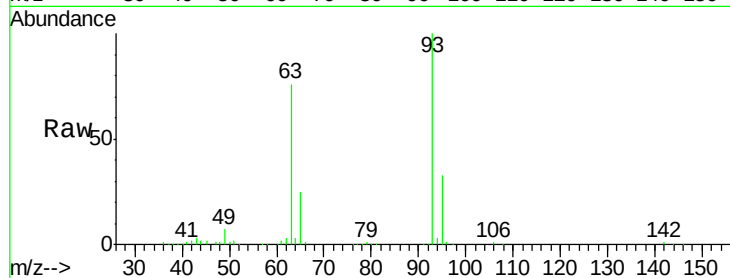
Tot Ion: 93 Resp: 313033

Ion Ratio Lower Upper

93 100

63 76.1 59.2 99.2

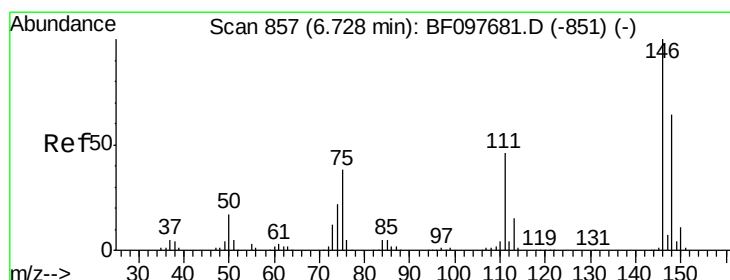
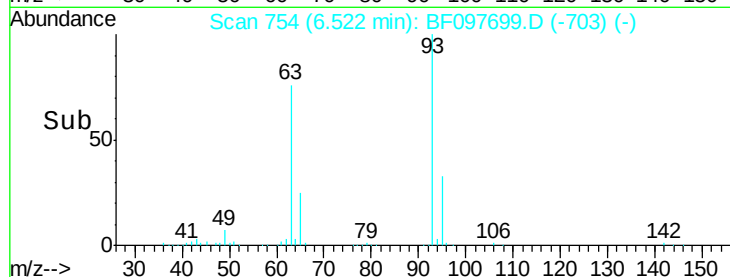
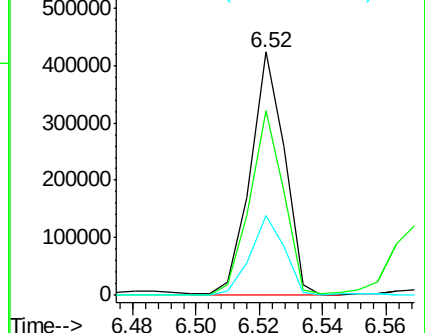
95 32.7 12.8 52.8



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#12

1,3-Dichlorobenzene

Concen: 28.09 ng

RT: 6.72 min Scan# 788

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

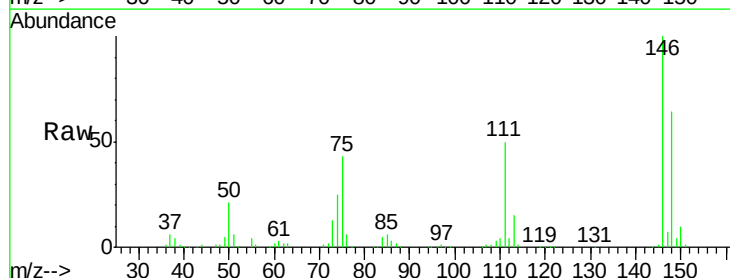
Tgt Ion: 146 Resp: 278141

Ion Ratio Lower Upper

146 100

148 63.6 51.8 77.6

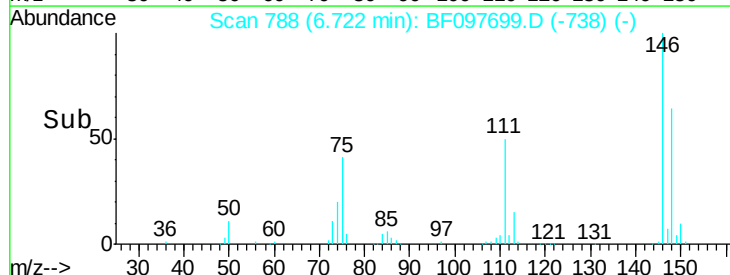
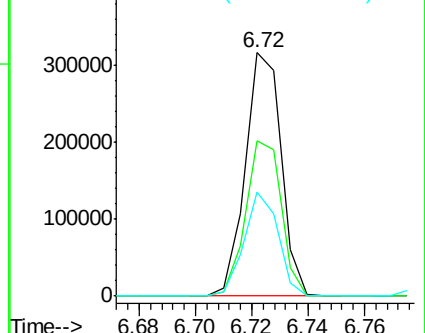
75 42.8 23.1 34.7#

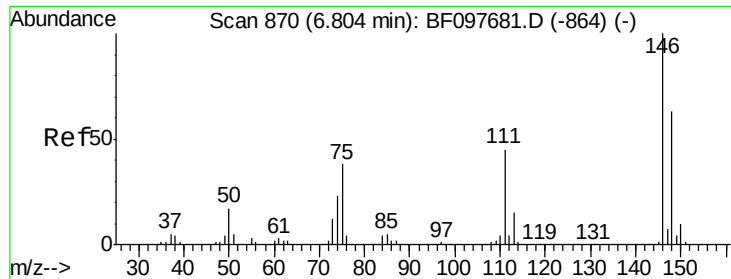


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0

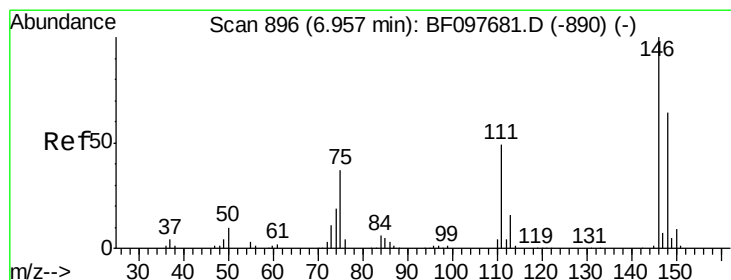
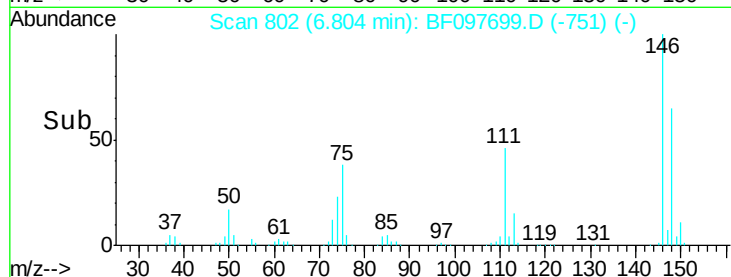
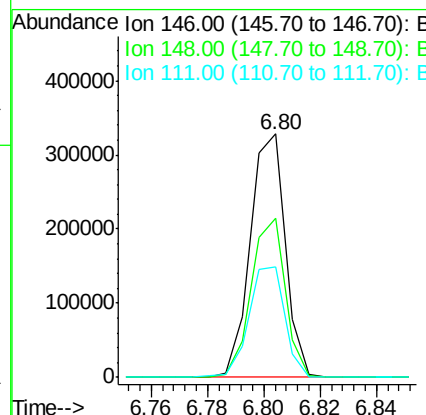
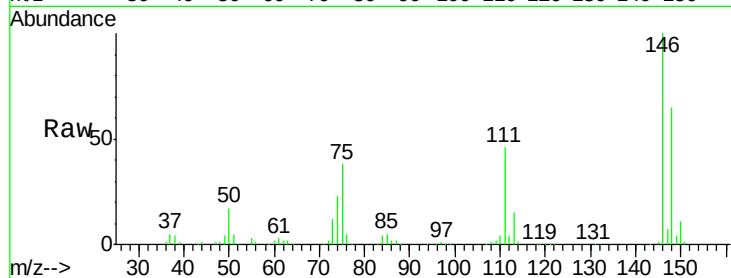




#13
 1,4-Dichlorobenzene
 Concen: 28.10 ng
 RT: 6.80 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

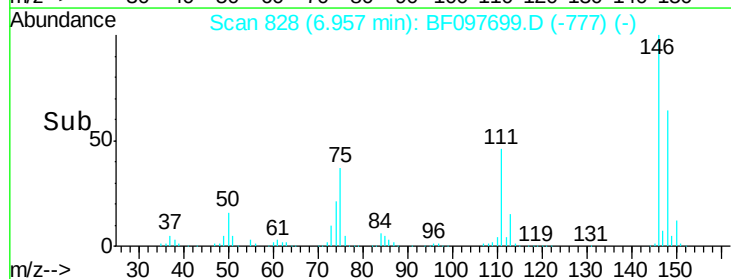
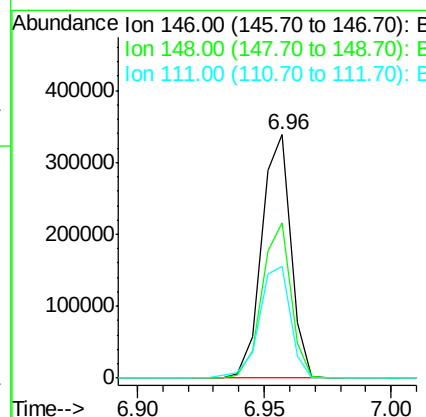
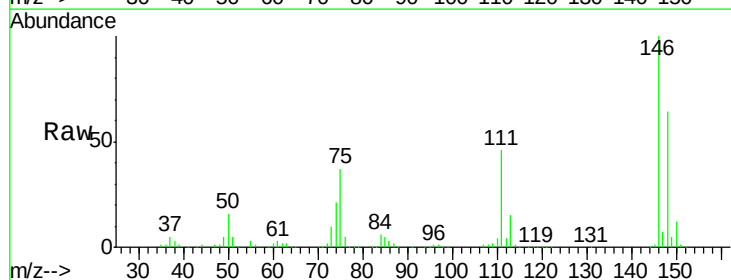
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

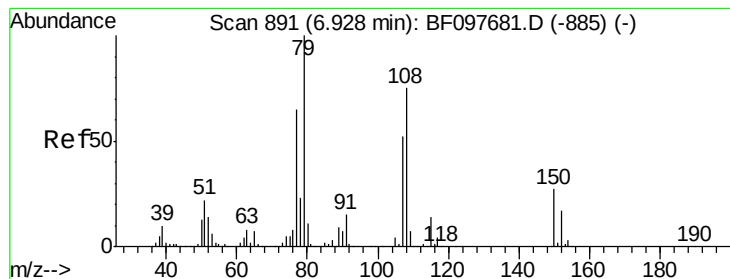
Tot Ion:146 Resp: 282980
 Ion Ratio Lower Upper
 146 100
 148 65.4 52.2 78.2
 111 45.6 30.3 45.5#



#14
 1,2-Dichlorobenzene
 Concen: 29.29 ng
 RT: 6.96 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:146 Resp: 271961
 Ion Ratio Lower Upper
 146 100
 148 63.6 50.4 75.6
 111 46.1 38.2 57.4





#15

Benzyl Alcohol

Concen: 34.03 ng

RT: 6.92 min Scan# 822

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

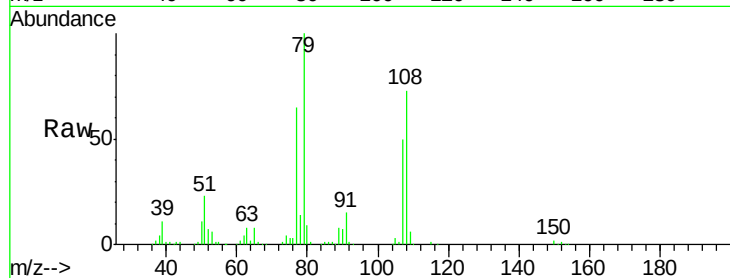
Tot Ion: 79 Resp: 302211

Ion Ratio Lower Upper

79 100

108 72.9 63.4 95.0

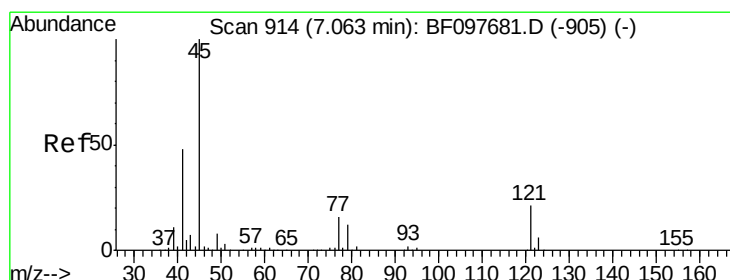
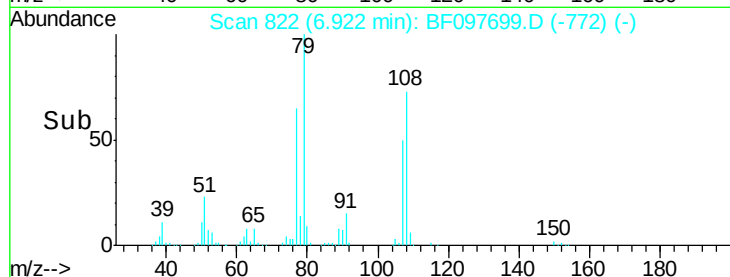
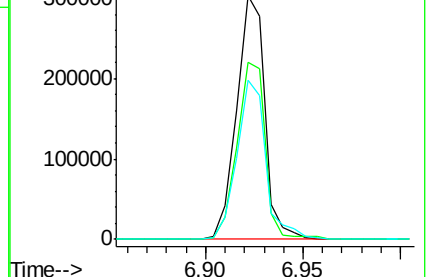
77 65.1 49.2 73.8



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-chloropropane)

Concen: 30.59 ng

RT: 7.06 min Scan# 846

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

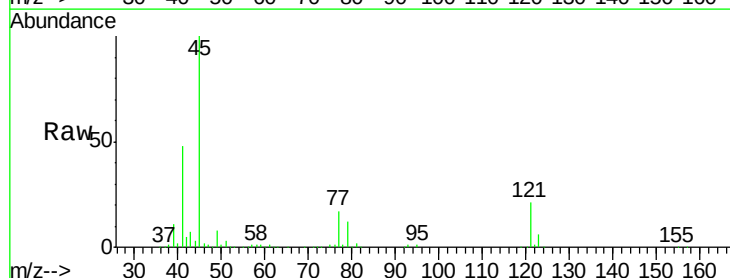
Tgt Ion: 45 Resp: 430890

Ion Ratio Lower Upper

45 100

77 16.8 0.0 33.2

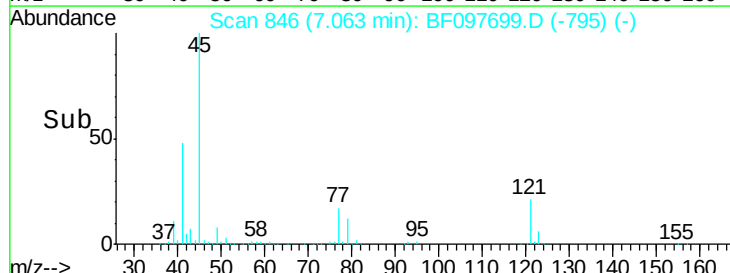
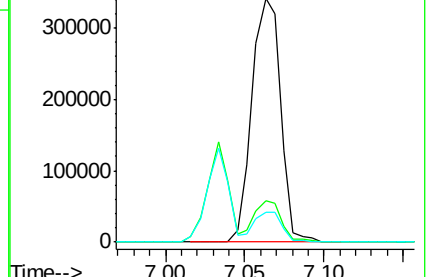
79 12.3 0.0 30.0

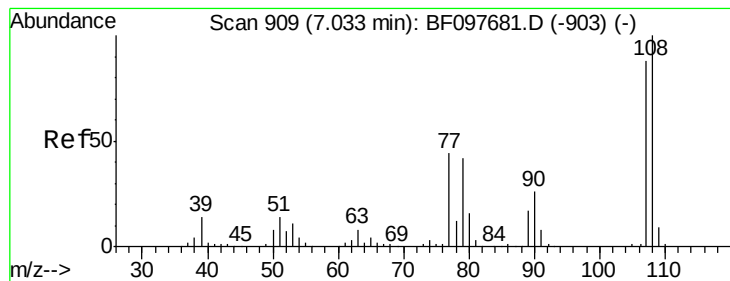


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

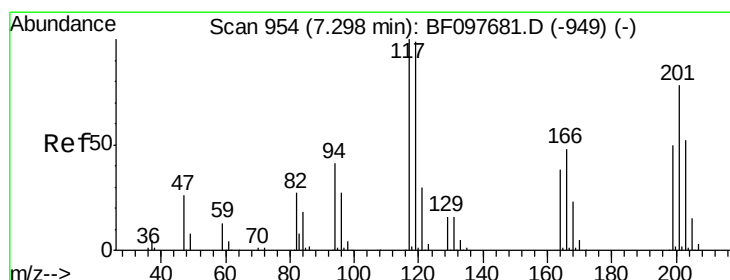
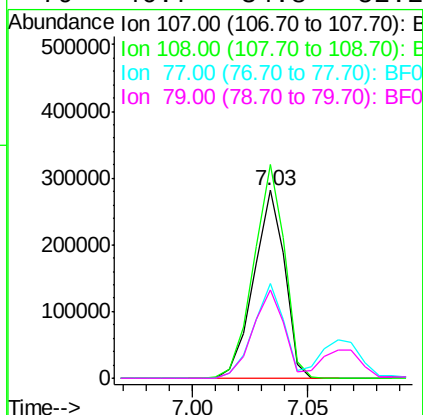
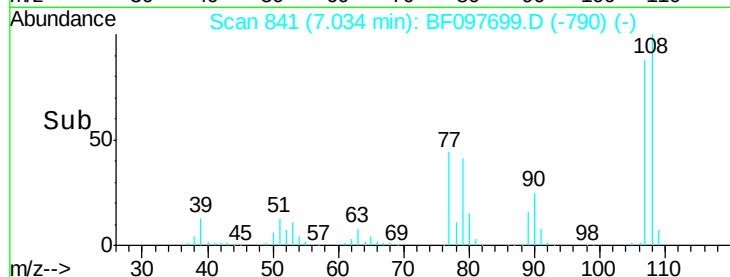
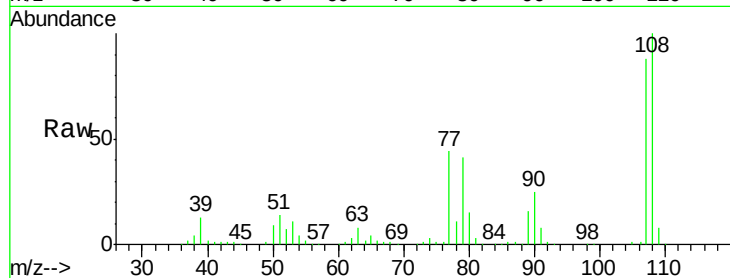




#17
2-Methylphenol
Concen: 32.42 ng
RT: 7.03 min Scan# 841
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

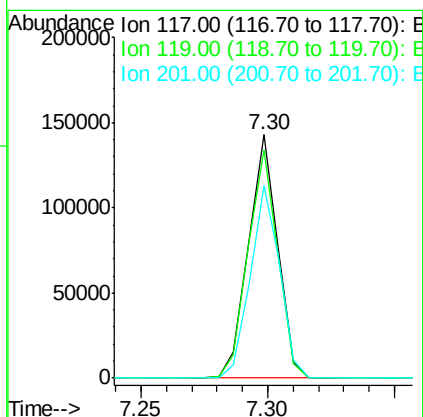
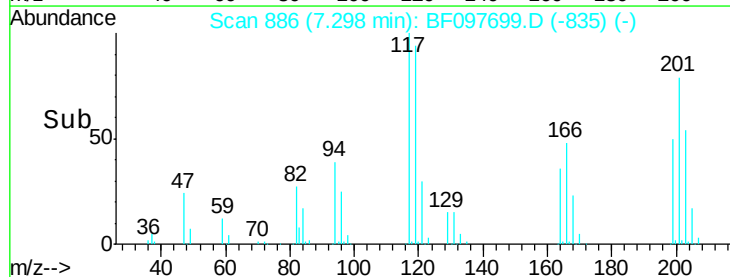
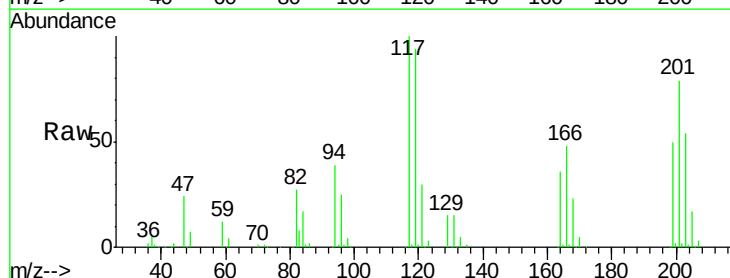
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

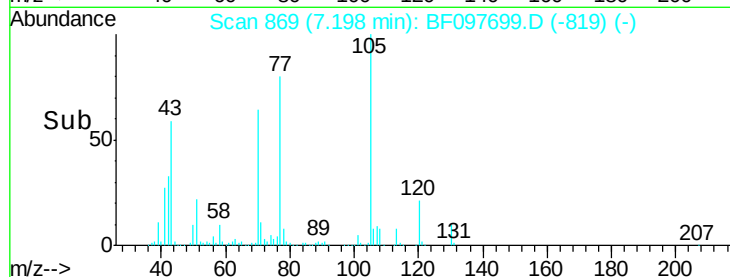
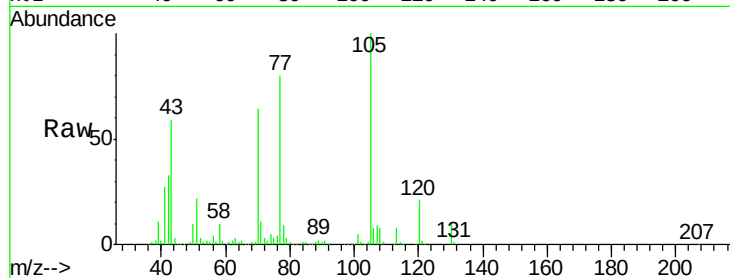
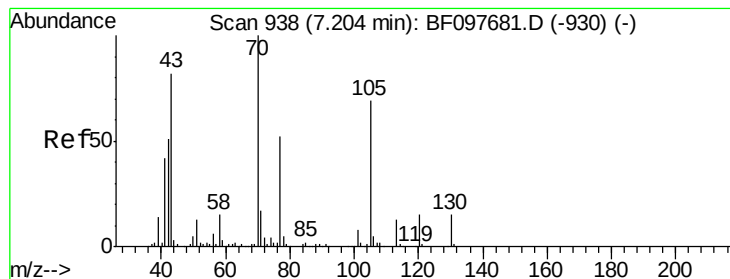
Tot Ion:	107	Resp:	263015
Ion	Ratio	Lower	Upper
107	100		
108	113.7	93.4	140.0
77	50.2	35.8	53.6
79	46.7	34.8	52.2



#18
Hexachloroethane
Concen: 29.06 ng
RT: 7.30 min Scan# 886
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:	117	Resp:	114738
Ion	Ratio	Lower	Upper
117	100		
119	94.0	77.4	116.0
201	78.8	94.6	141.8#





#19

n-Nitroso-di-n-propylamine

Concen: 29.86 ng

RT: 7.20 min Scan# 869

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

Tot Ion: 70 Resp: 242447

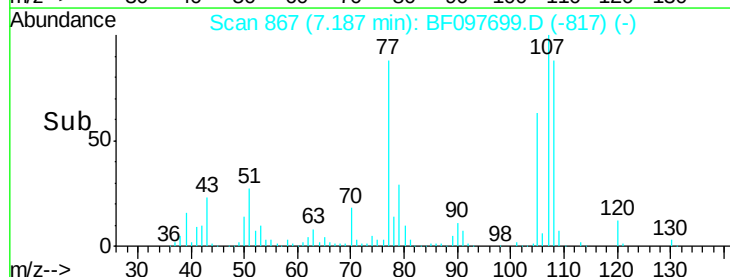
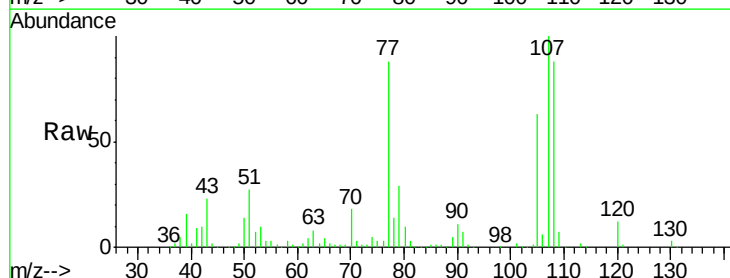
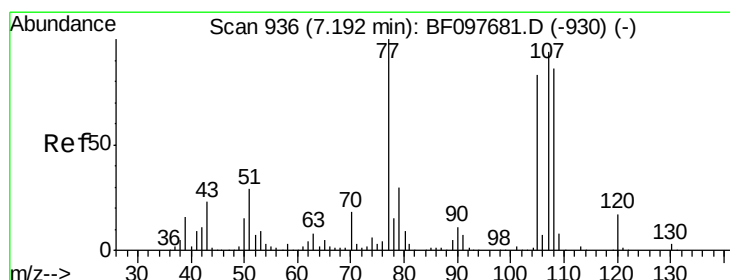
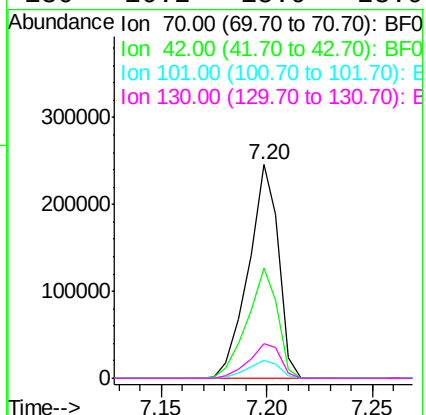
Ion Ratio Lower Upper

70 100

42 51.7 47.2 70.8

101 8.5 7.2 10.8

130 16.2 15.9 23.9



#20

3+4-Methylphenols

Concen: 32.83 ng

RT: 7.19 min Scan# 867

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Tgt Ion: 107 Resp: 325281

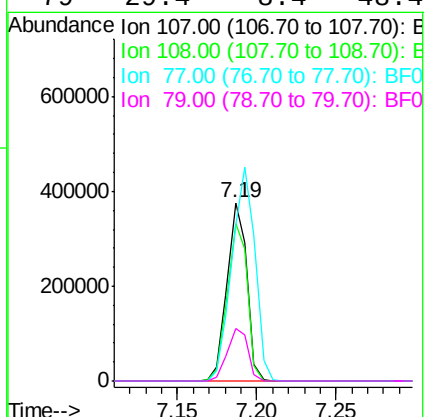
Ion Ratio Lower Upper

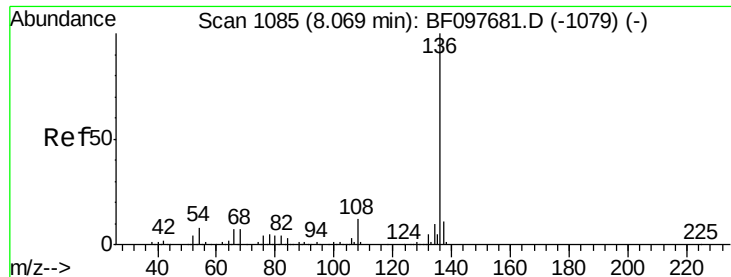
107 100

108 88.0 71.0 111.0

77 87.7 90.5 130.5#

79 29.4 8.4 48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

Tot Ion:136 Resp: 531790

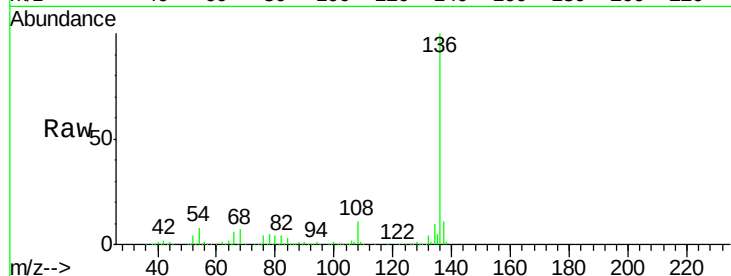
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.8 4.9 7.3#

68 7.0 4.1 6.1#

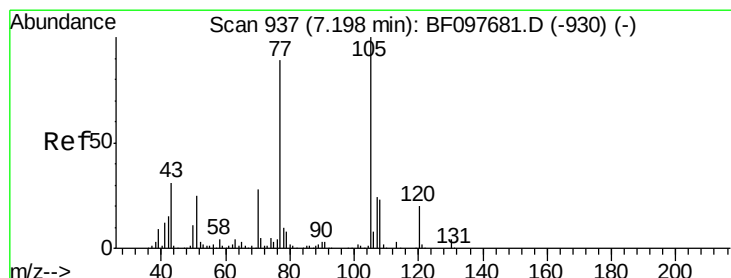
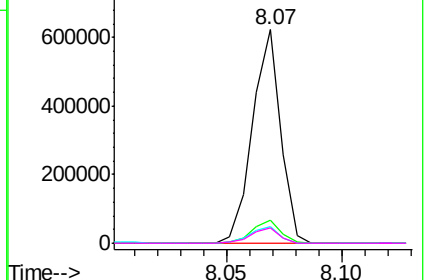
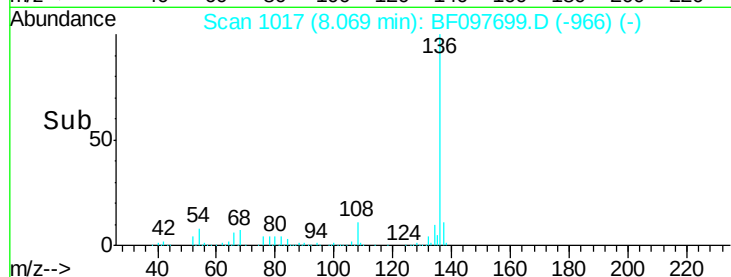


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 30.46 ng

RT: 7.19 min Scan# 868

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Tgt Ion:105 Resp: 427947

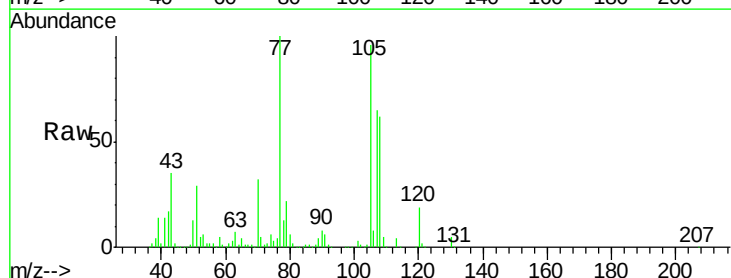
Ion Ratio Lower Upper

105 100

71 5.4 2.8 4.2#

51 29.6 30.7 46.1#

120 20.2 17.4 26.0

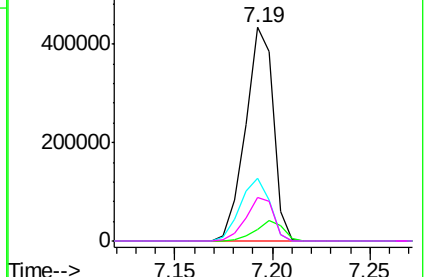
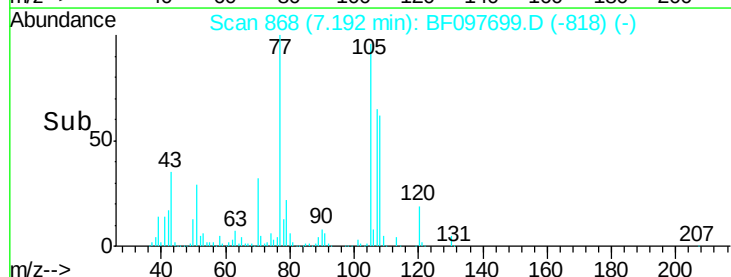


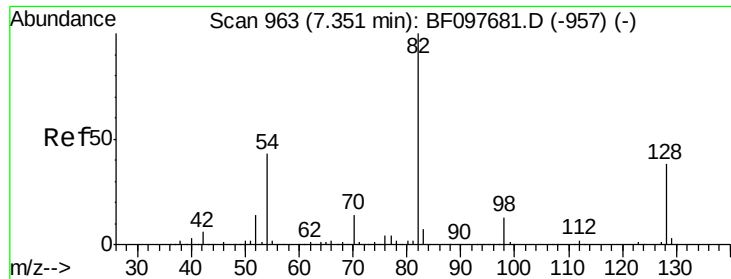
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

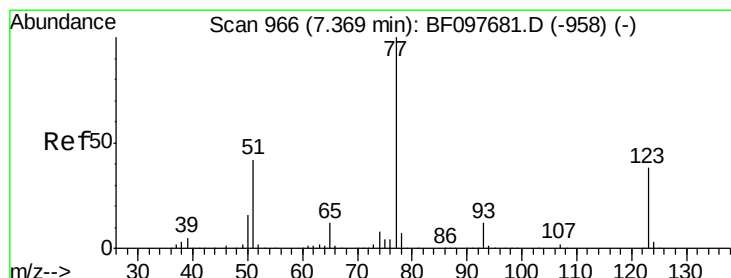
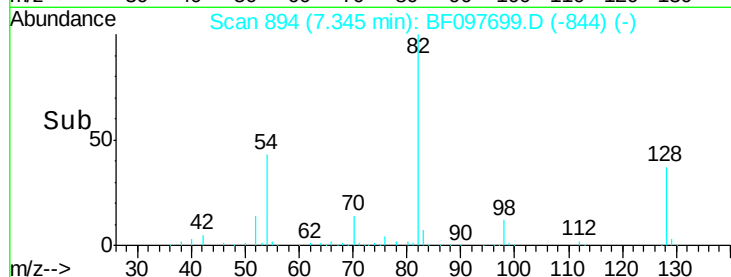
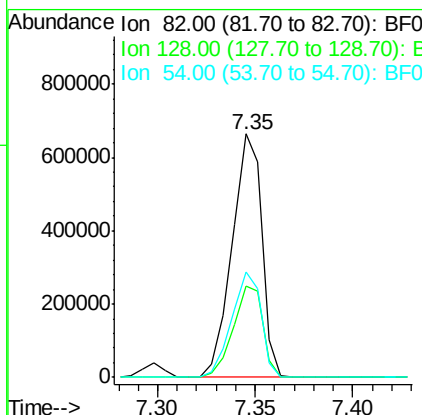
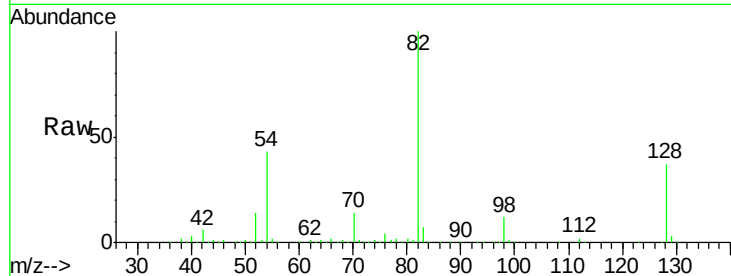




#23
 Nitrobenzene-d5
 Concen: 71.37 ng
 RT: 7.35 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

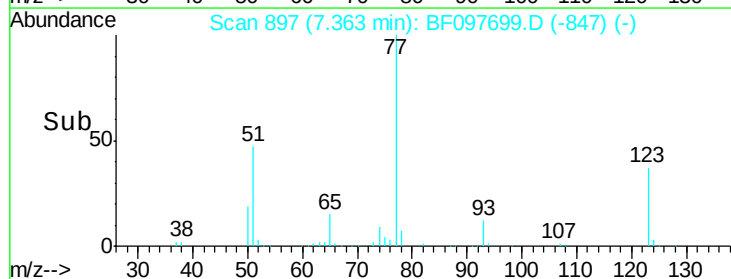
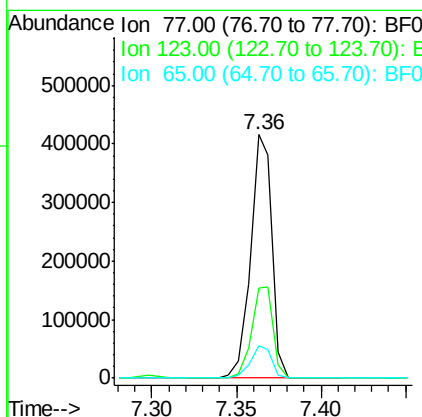
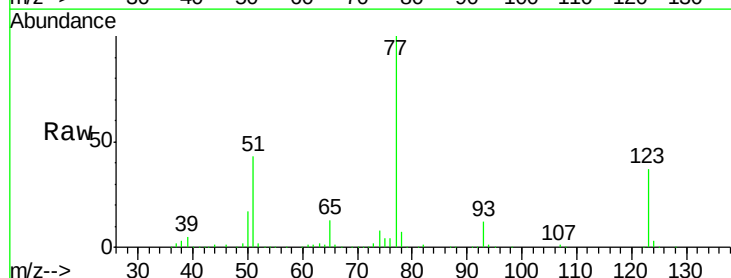
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

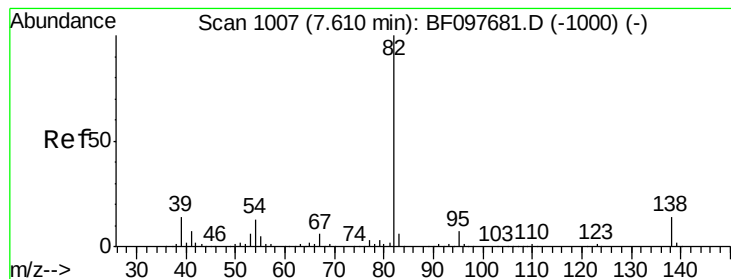
Tot Ion	82	Resp	698649
Ion Ratio	100	Lower	Upper
128	37.3	34.0	51.0
54	43.5	42.2	63.2



#24
 Nitrobenzene
 Concen: 33.61 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion	77	Resp	366312
Ion Ratio	100	Lower	Upper
123	37.2	35.8	53.8
65	13.1	10.6	15.8





#25

Isophorone

Concen: 32.61 ng

RT: 7.60 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

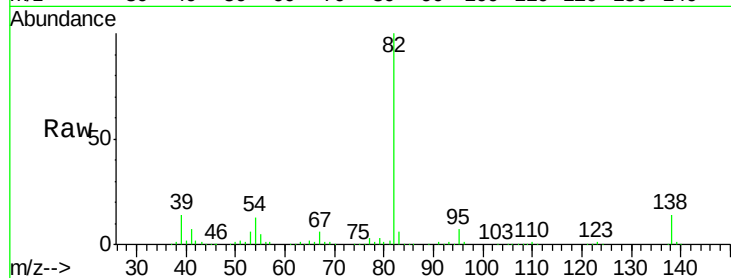
Tot Ion: 82 Resp: 663812

Ion Ratio Lower Upper

82 100

95 6.6 5.3 7.9

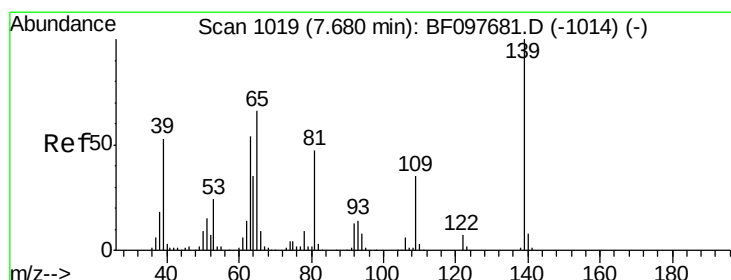
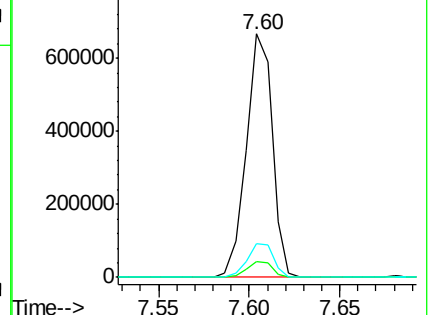
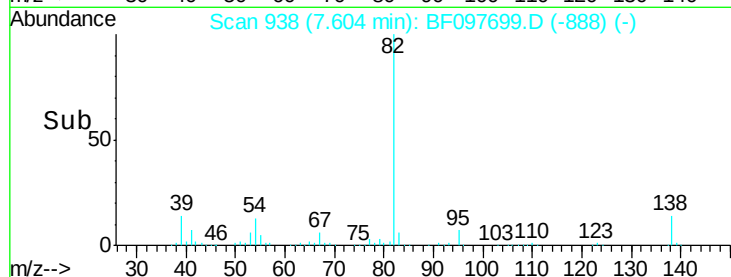
138 13.8 13.1 19.7



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 35.88 ng

RT: 7.68 min Scan# 951

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

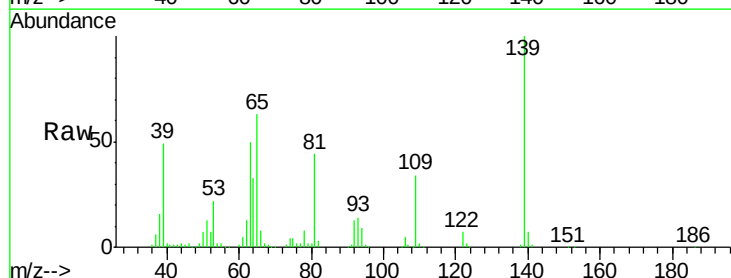
Tgt Ion: 139 Resp: 135816

Ion Ratio Lower Upper

139 100

109 34.2 21.0 31.6#

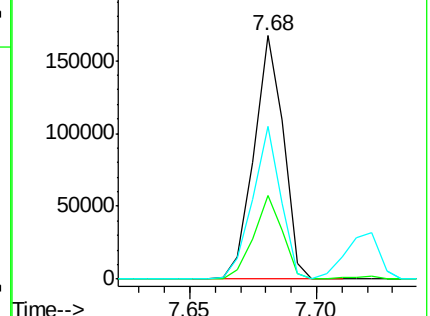
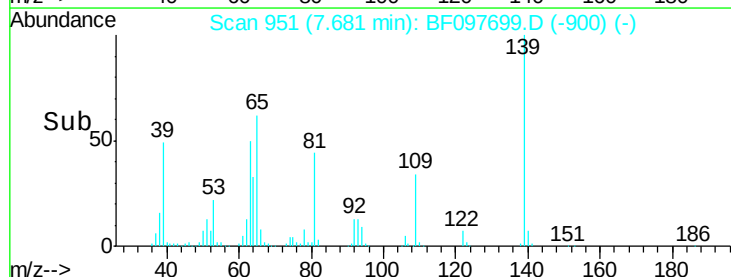
65 62.6 33.0 49.6#

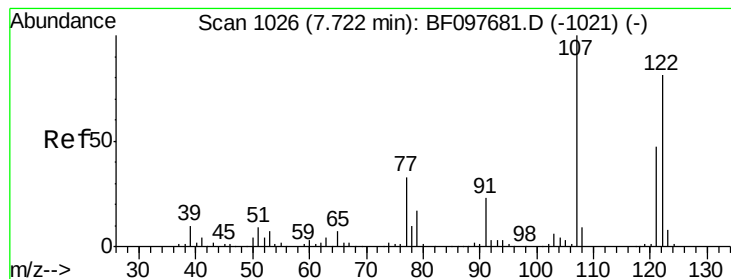


Abundance Ion 139.00 (138.70 to 139.70): BF0

Ion 109.00 (108.70 to 109.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

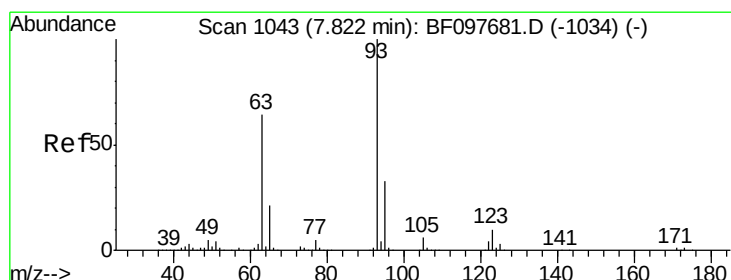
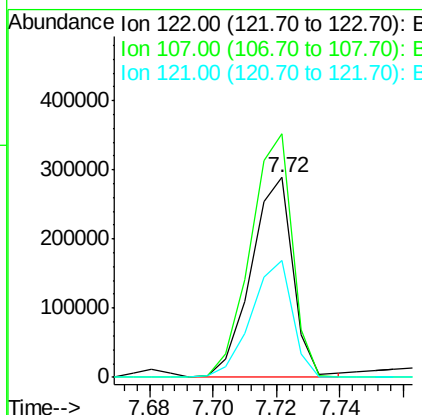
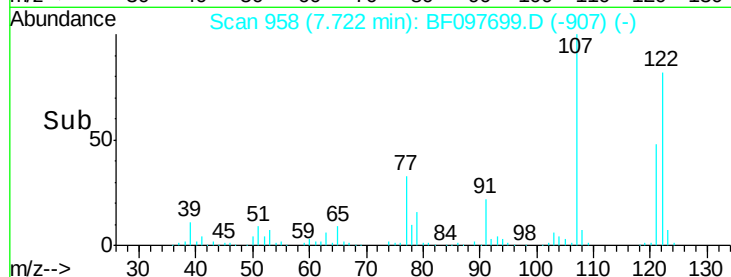
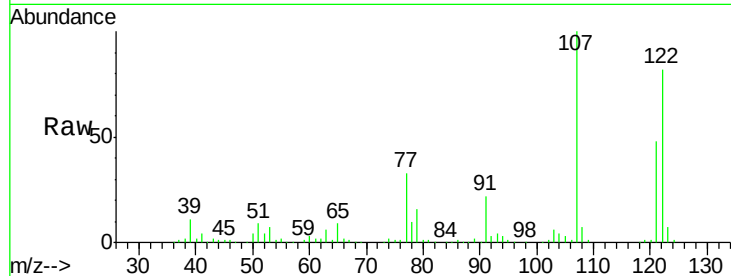




#27
 2,4-Dimethylphenol
 Concen: 31.32 ng
 RT: 7.72 min Scan# 958
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

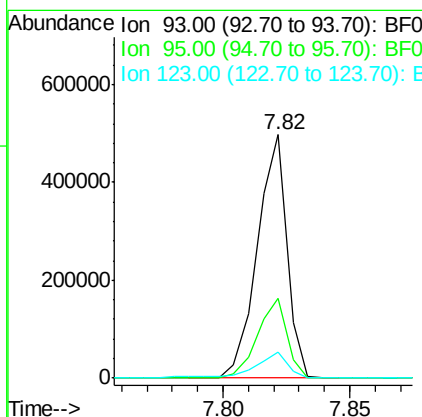
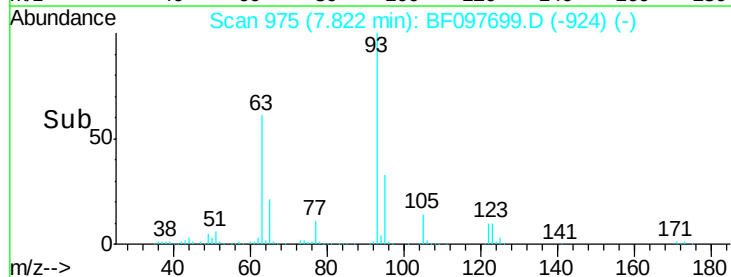
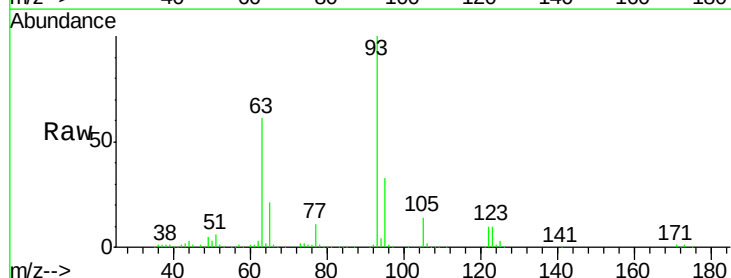
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

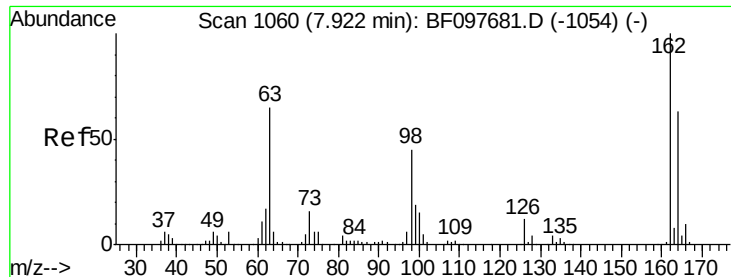
Tot Ion:	122	Resp:	265867
Ion	Ratio	Lower	Upper
122	100		
107	121.7	89.2	133.8
121	58.2	45.2	67.8



#28
 bis(2-Chloroethoxy)methane
 Concen: 30.50 ng
 RT: 7.82 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:	93	Resp:	408129
Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.5	39.7
123	10.5	9.0	13.4

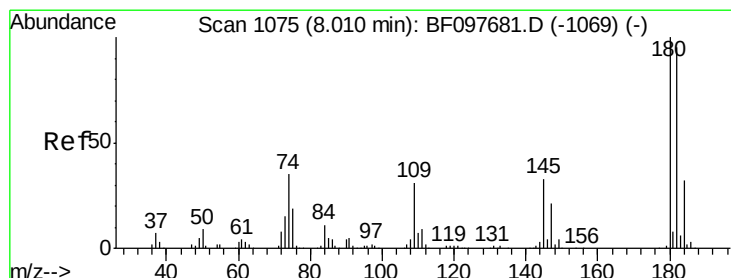
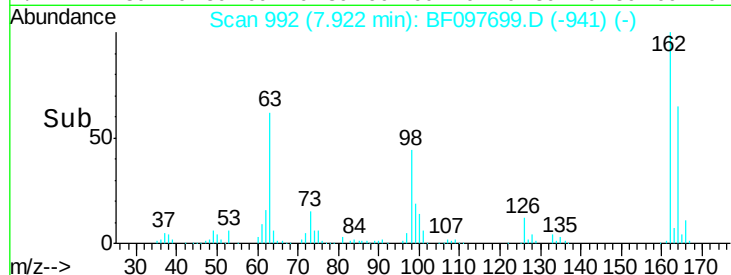
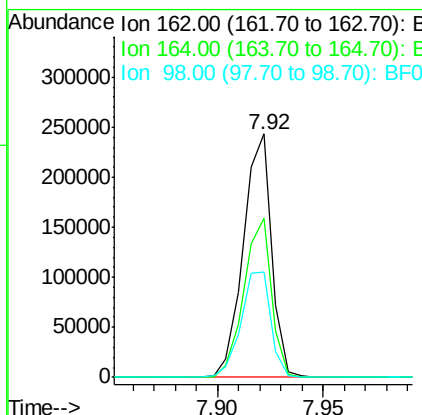
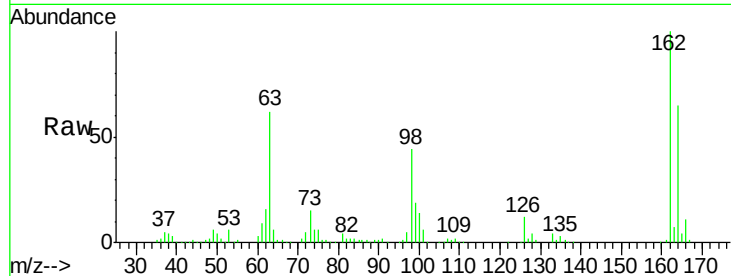




#29
 2,4-Dichlorophenol
 Concen: 31.91 ng
 RT: 7.92 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

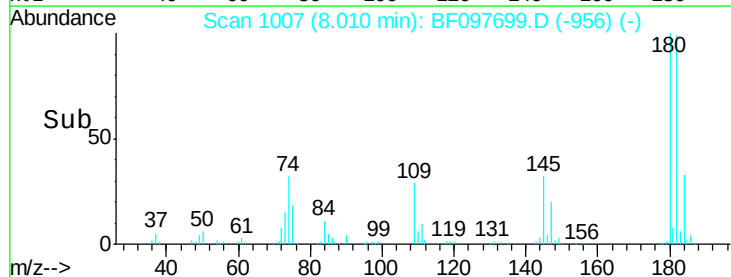
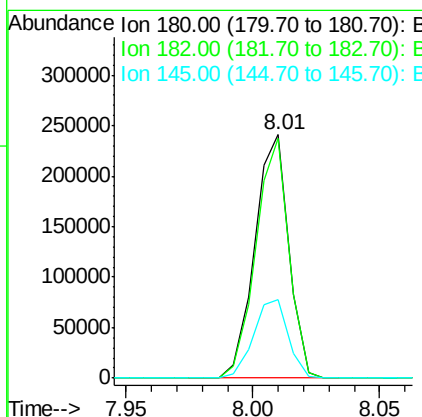
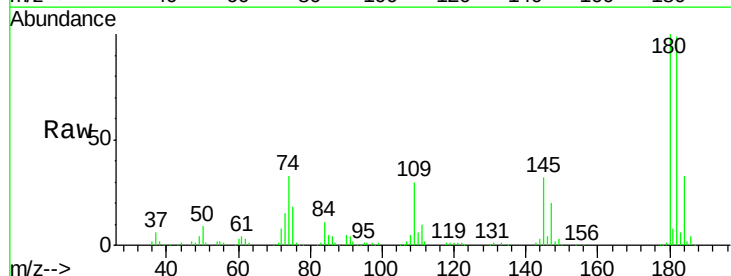
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

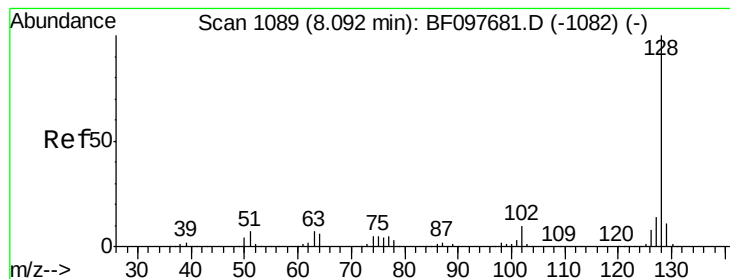
Tot Ion:162 Resp: 224867
 Ion Ratio Lower Upper
 162 100
 164 65.4 44.6 84.6
 98 43.5 14.8 54.8



#30
 1,2,4-Trichlorobenzene
 Concen: 28.61 ng
 RT: 8.01 min Scan# 1007
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:180 Resp: 223527
 Ion Ratio Lower Upper
 180 100
 182 98.5 75.8 113.6
 145 32.4 25.3 37.9





#31

Naphthalene

Concen: 29.57 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

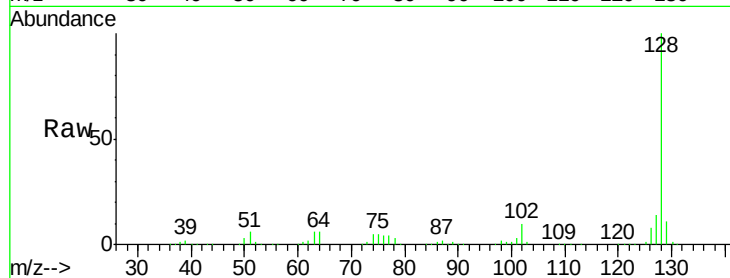
Tot Ion:128 Resp: 816248

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.6

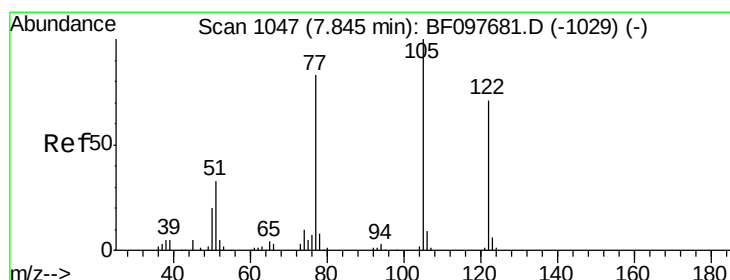
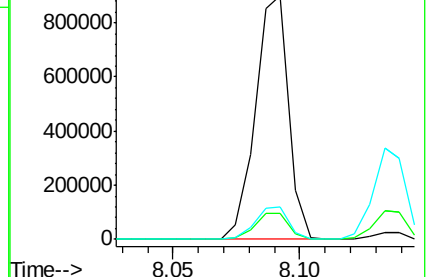
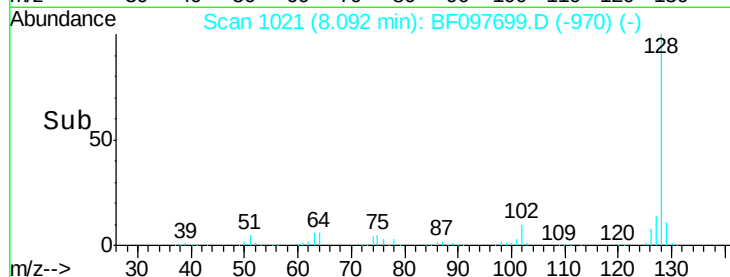
127 13.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 27.00 ng

RT: 7.82 min Scan# 975

Delta R.T. -0.02 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

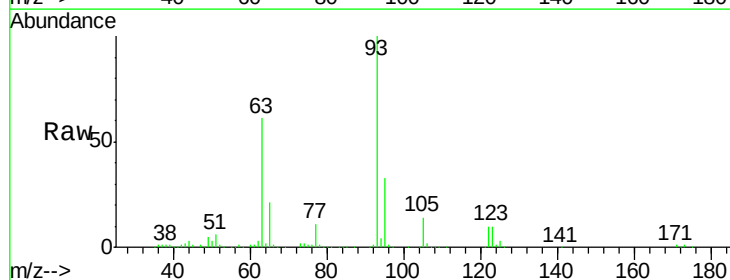
Tgt Ion:122 Resp: 147022

Ion Ratio Lower Upper

122 100

105 134.9 103.3 143.3

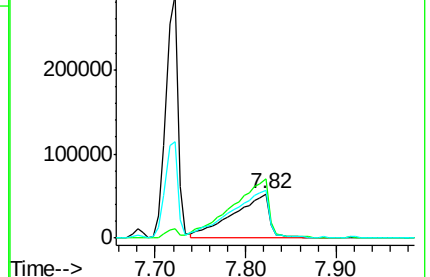
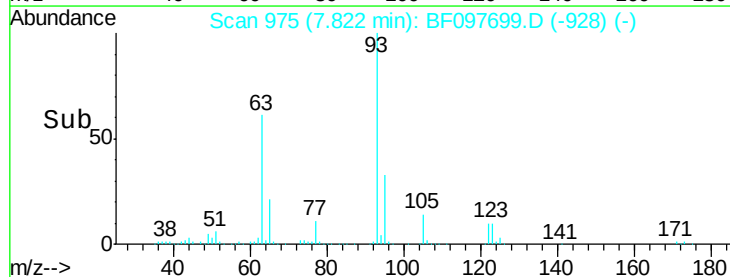
77 108.4 73.7 113.7

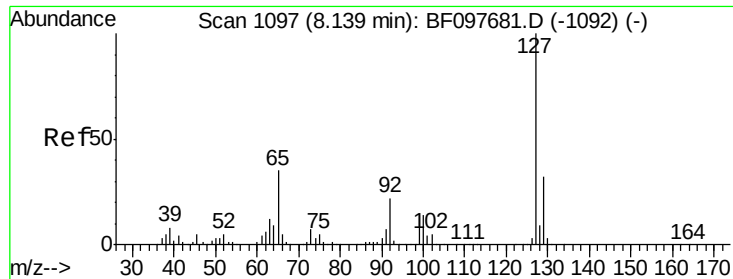


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

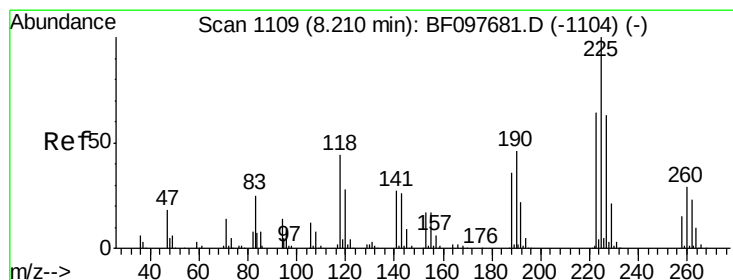
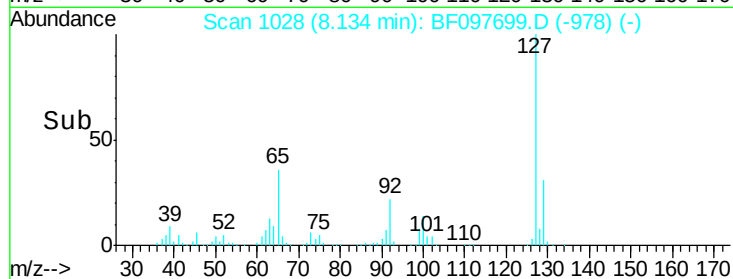
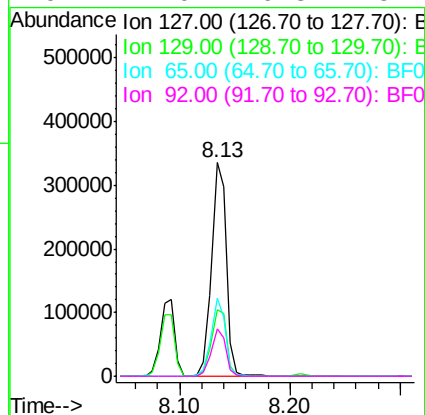
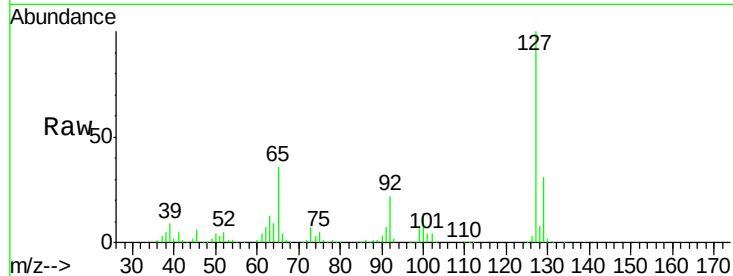




#33
4-Chloroaniline
Concen: 25.94 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

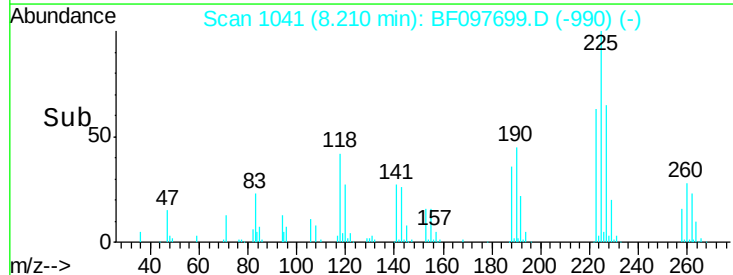
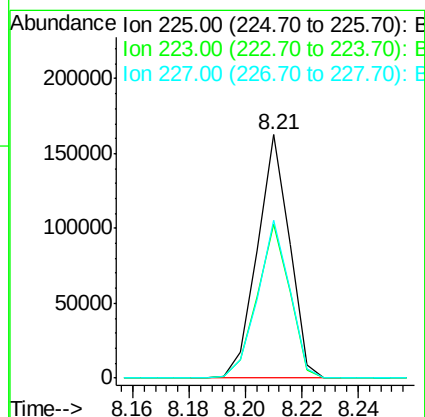
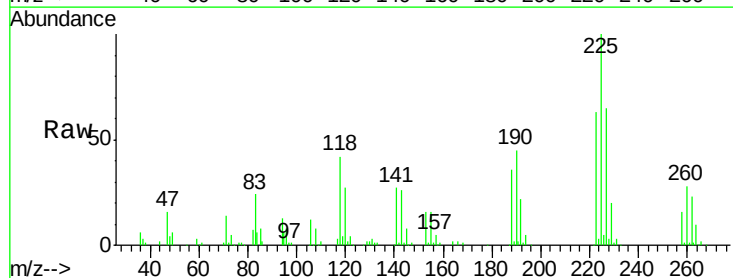
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

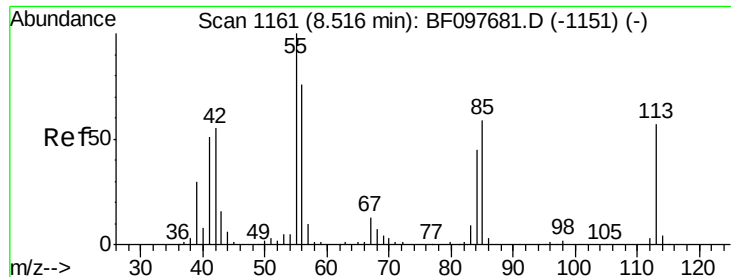
Tot Ion:	127	Resp:	302014
Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.2	39.2
65	36.3	27.8	41.8
92	22.0	16.8	25.2



#34
Hexachlorobutadiene
Concen: 28.21 ng
RT: 8.21 min Scan# 1041
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:	225	Resp:	128665
Ion	Ratio	Lower	Upper
225	100		
223	63.4	48.8	73.2
227	64.6	51.1	76.7

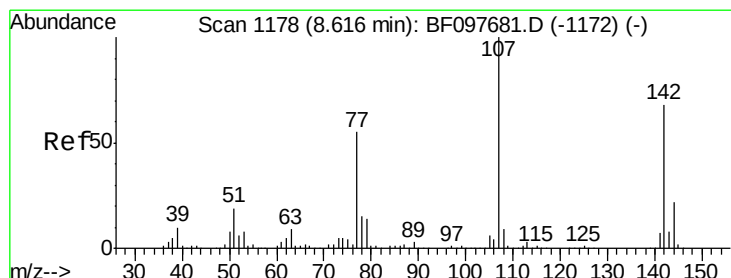
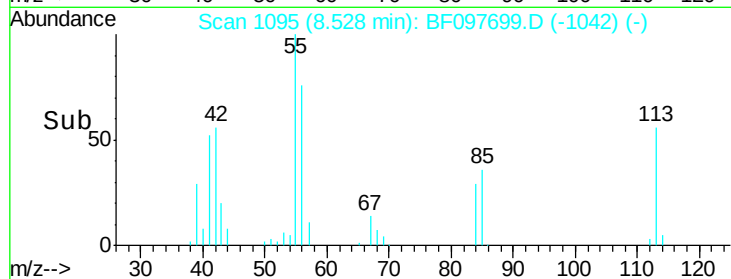
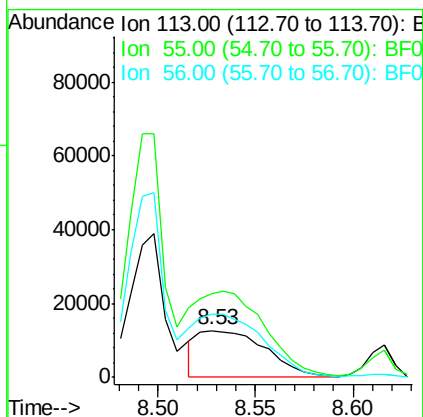
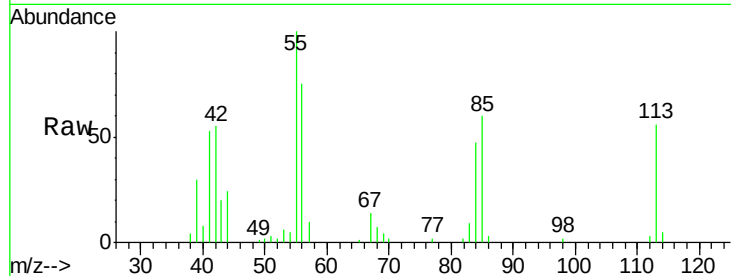




#35
 Caprolactam
 Concen: 12.78 ng
 RT: 8.53 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

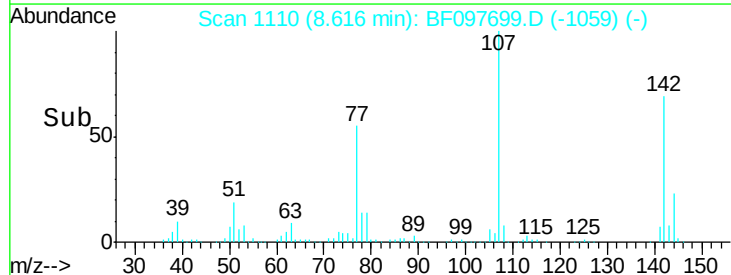
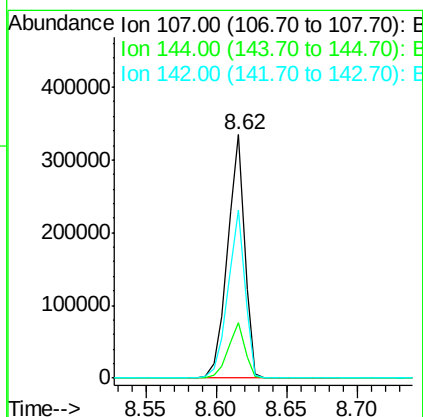
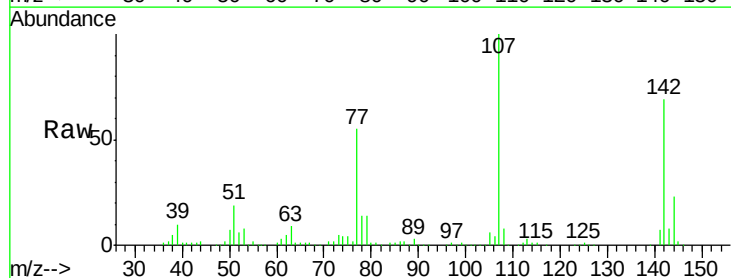
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

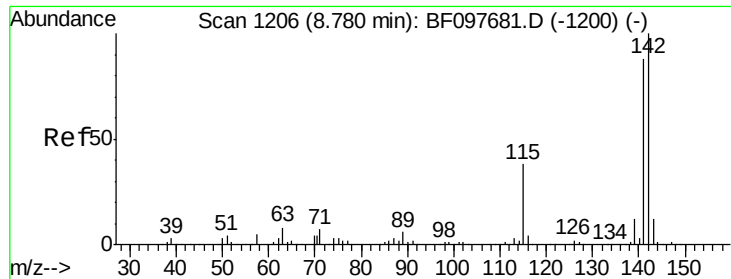
Tot Ion:113 Resp: 30627
 Ion Ratio Lower Upper
 113 100
 55 180.2 150.2 190.2
 56 134.5 107.8 147.8



#36
 4-Chloro-3-methylphenol
 Concen: 31.37 ng
 RT: 8.62 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:107 Resp: 283982
 Ion Ratio Lower Upper
 107 100
 144 23.0 24.2 36.4#
 142 68.9 73.4 110.0#

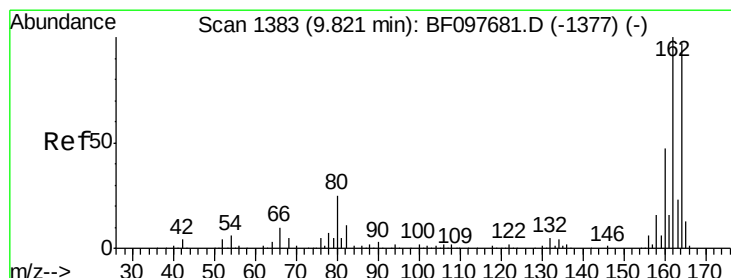
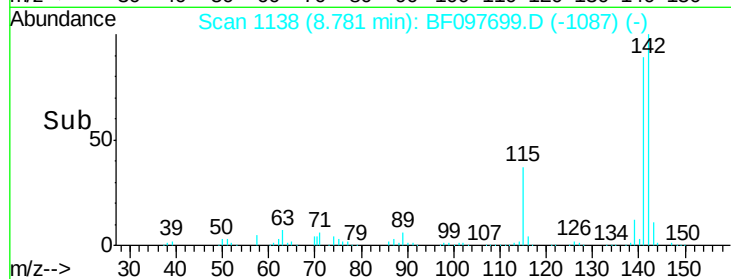
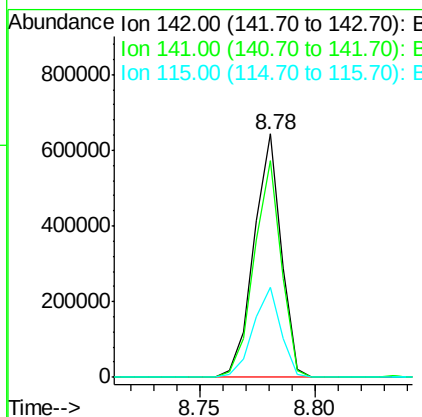
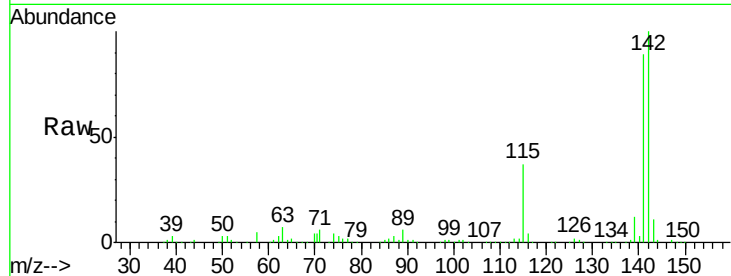




#37
2-Methylnaphthalene
Concen: 31.38 ng
RT: 8.78 min Scan# 1138
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

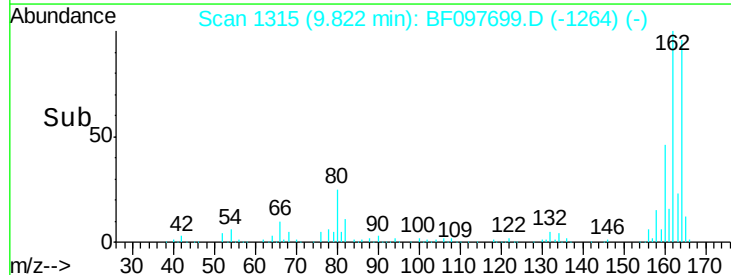
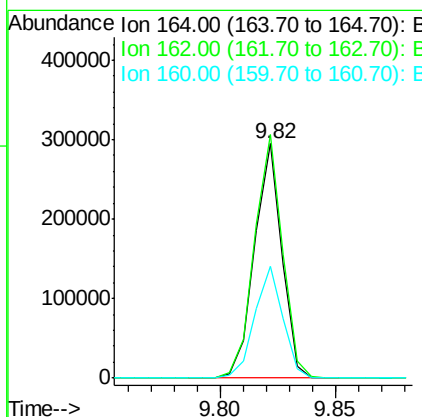
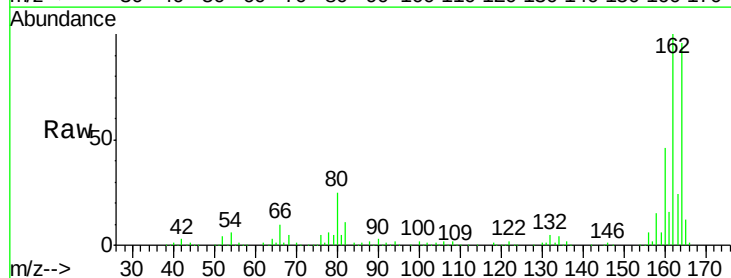
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

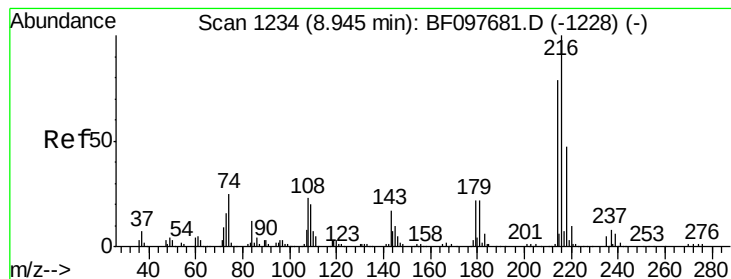
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.3	106.9
115	37.1	27.1	40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.82 min Scan# 1315
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.6	123.8
160	47.6	36.2	54.2





#39

1,2,4,5-Tetrachlorobenzene

Concen: 28.45 ng

RT: 8.95 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

Tot Ion:216 Resp: 212875

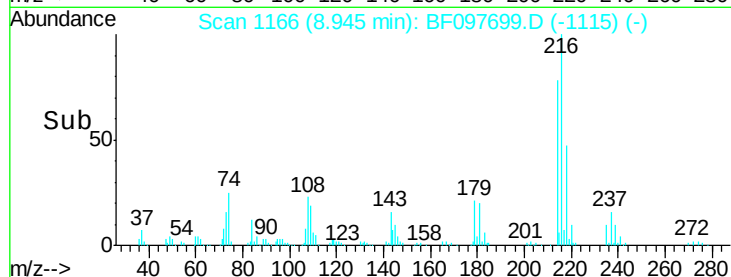
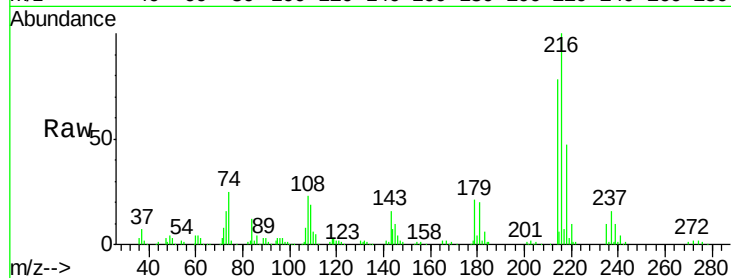
Ion Ratio Lower Upper

216 100

214 79.2 63.4 95.2

179 21.5 17.9 26.9

108 26.9 16.5 24.7#

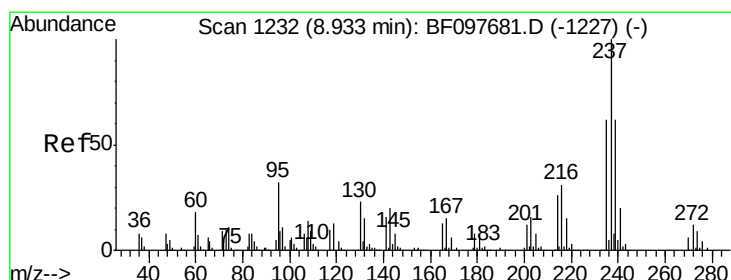
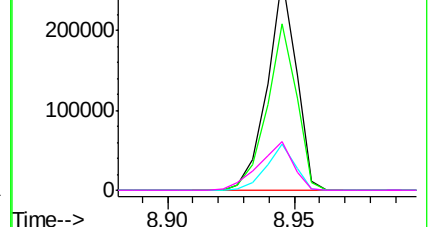


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 63.67 ng

RT: 8.93 min Scan# 1164

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

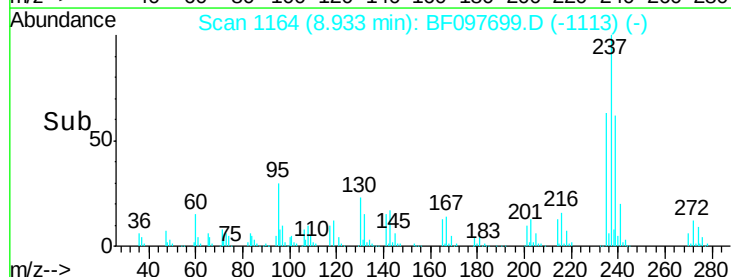
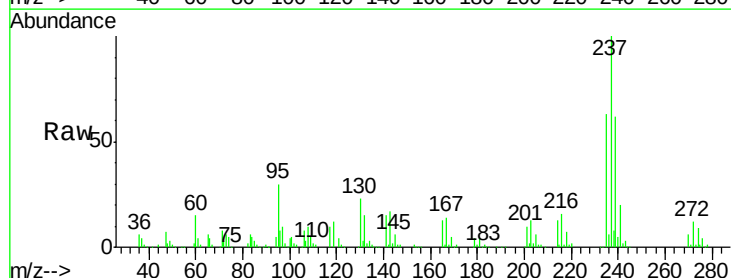
Tgt Ion:237 Resp: 228898

Ion Ratio Lower Upper

237 100

235 63.0 42.6 82.6

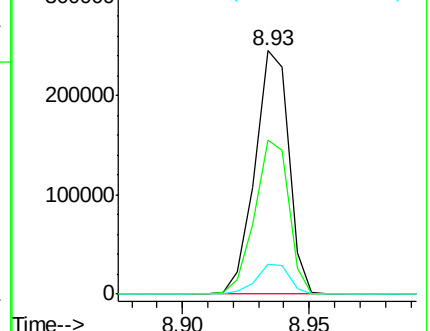
272 12.1 0.0 31.9

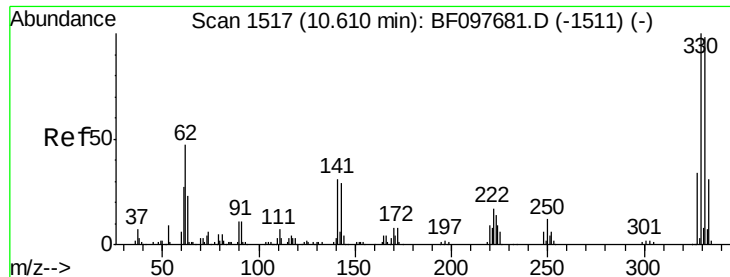


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





#41

2,4,6-Tribromophenol

Concen: 102.85 ng

RT: 10.61 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

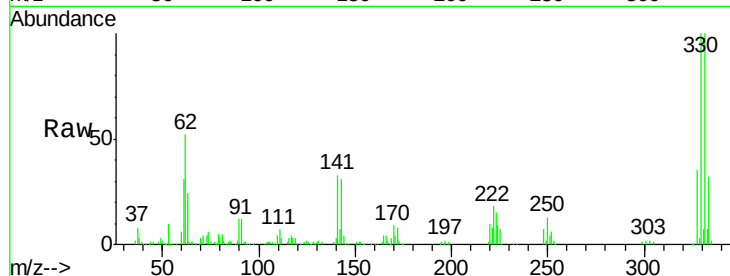
Tot Ion:330 Resp: 217599

Ion Ratio Lower Upper

330 100

332 98.1 76.6 115.0

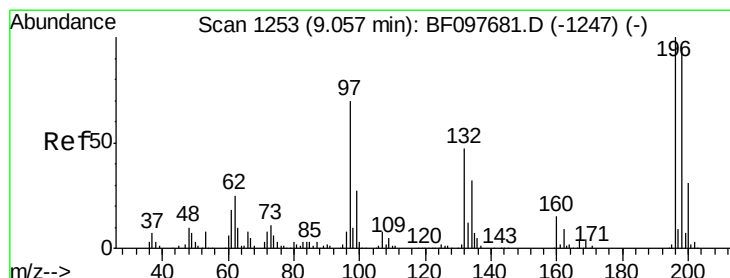
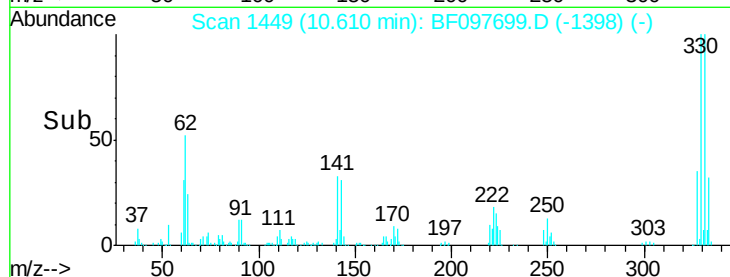
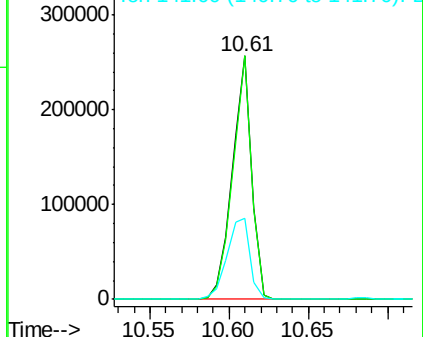
141 39.1 31.4 47.2



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#42

2,4,6-Trichlorophenol

Concen: 30.94 ng

RT: 9.06 min Scan# 1185

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

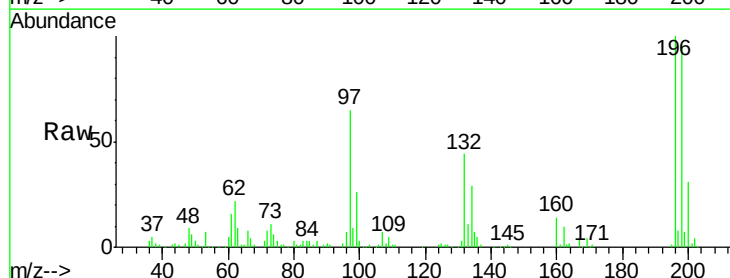
Tgt Ion:196 Resp: 155463

Ion Ratio Lower Upper

196 100

198 96.2 74.2 111.4

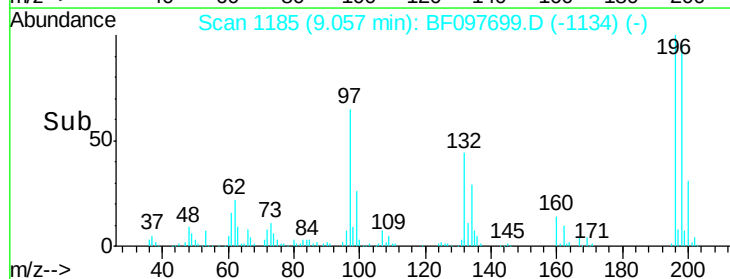
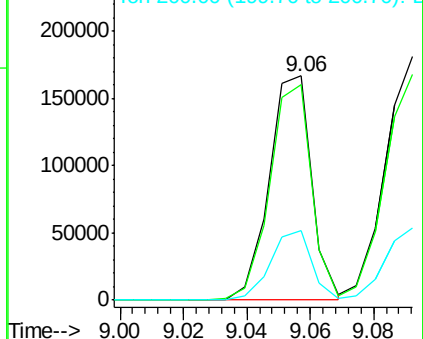
200 31.0 24.0 36.0

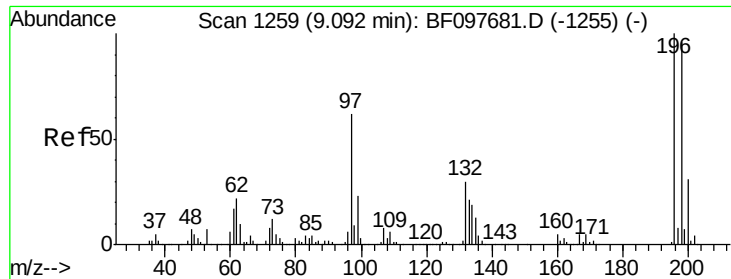


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

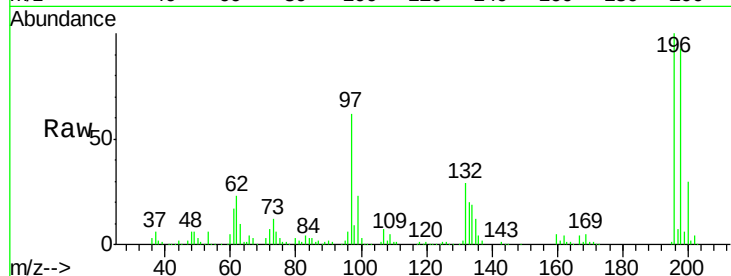




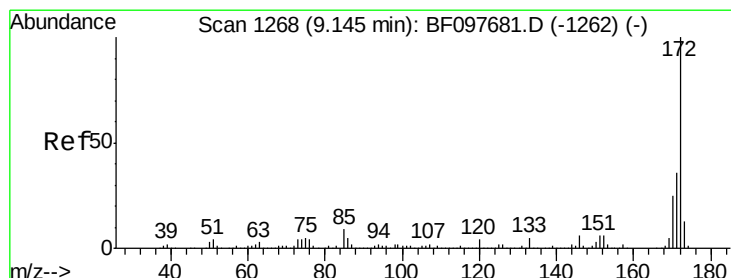
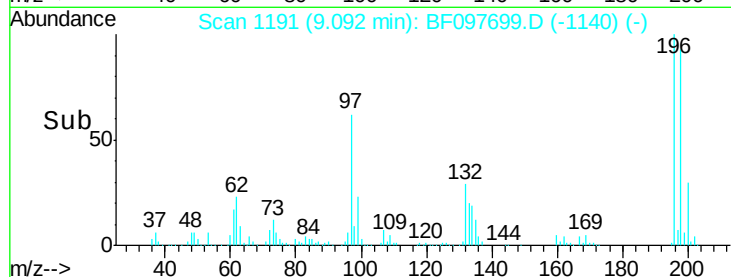
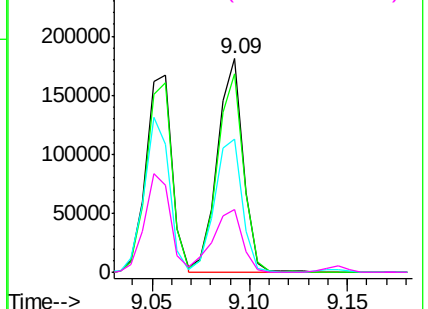
#43
 2,4,5-Trichlorophenol
 Concen: 33.21 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

Tot Ion:196 Resp: 165529
 Ion Ratio Lower Upper
 196 100
 198 92.9 75.7 113.5
 97 62.5 47.7 71.5
 132 29.2 28.0 42.0

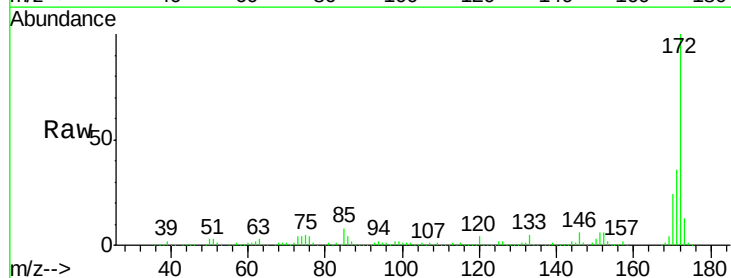


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

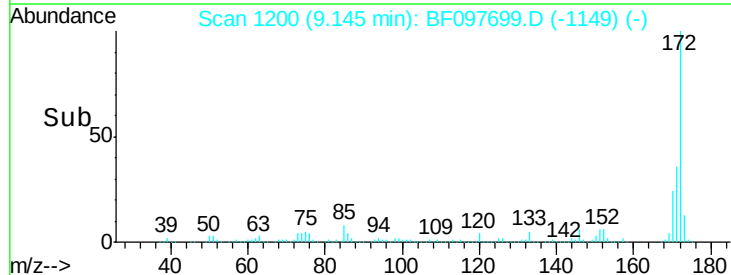
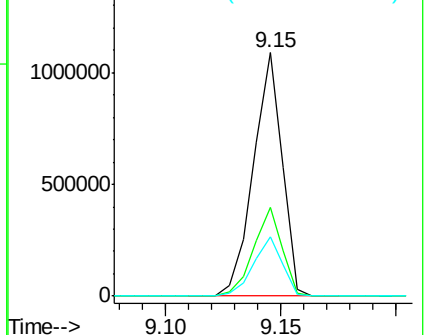


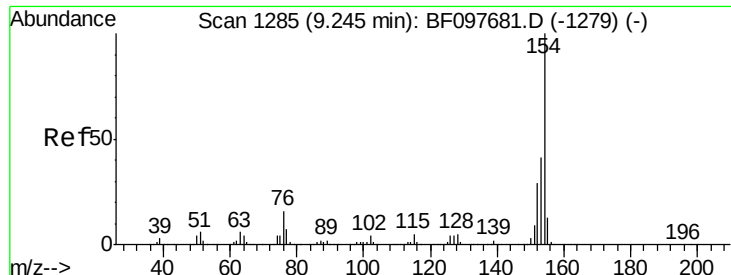
#44
 2-Fluorobiphenyl
 Concen: 57.20 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:172 Resp: 949402
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.6 44.4
 170 24.5 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 28.58 ng

RT: 9.25 min Scan# 1217

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

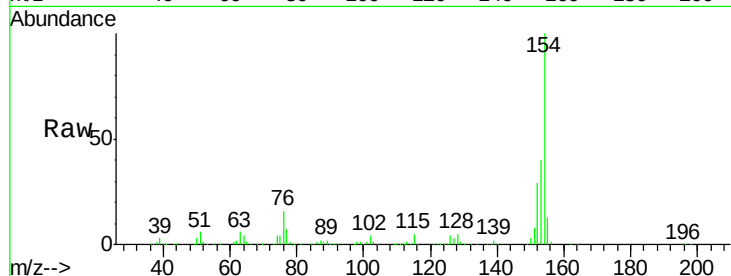
Tot Ion:154 Resp: 635600

Ion Ratio Lower Upper

154 100

153 40.5 21.2 61.2

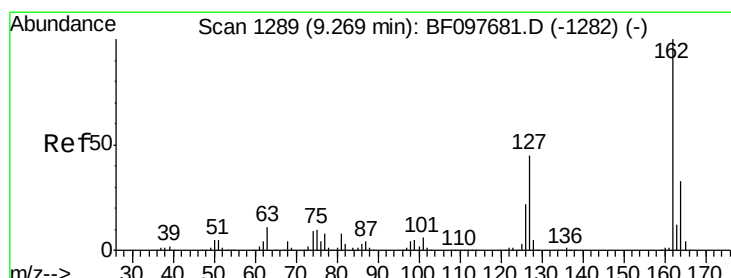
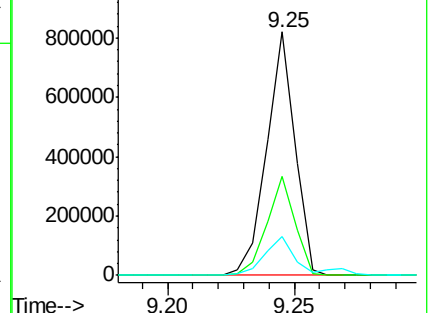
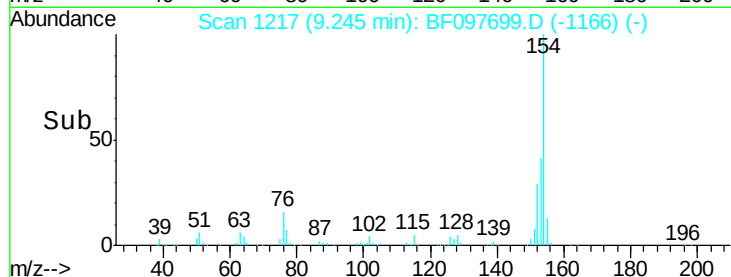
76 15.8 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 28.37 ng

RT: 9.27 min Scan# 1221

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

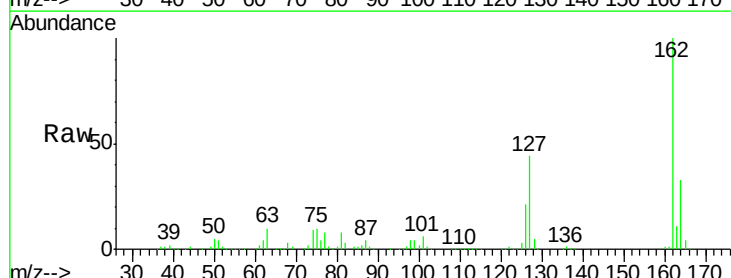
Tgt Ion:162 Resp: 466070

Ion Ratio Lower Upper

162 100

127 43.8 28.3 42.5#

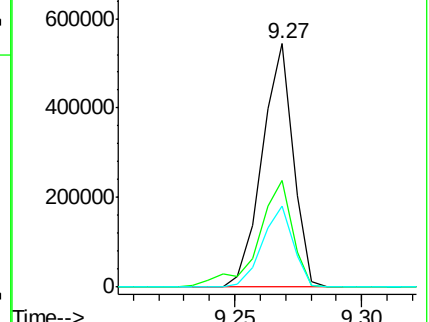
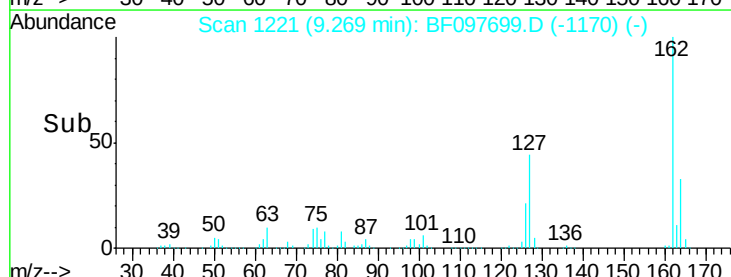
164 33.2 27.0 40.4

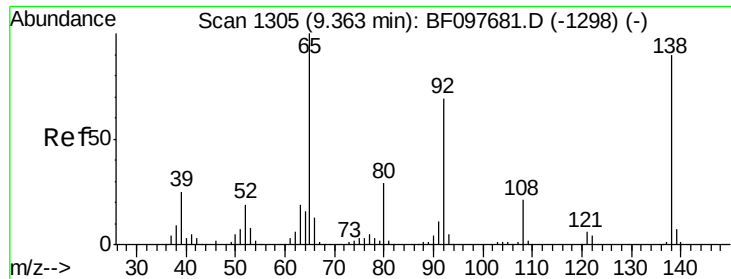


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 33.01 ng

RT: 9.36 min Scan# 1237

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

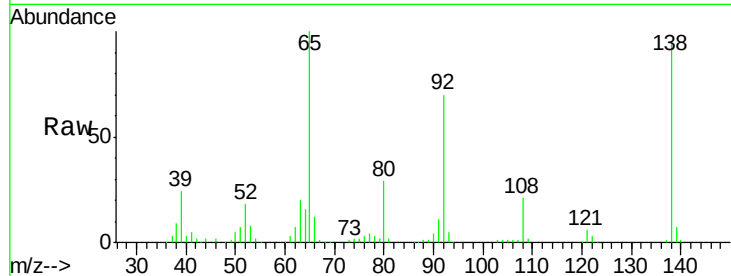
Tot Ion: 65 Resp: 181837

Ion Ratio Lower Upper

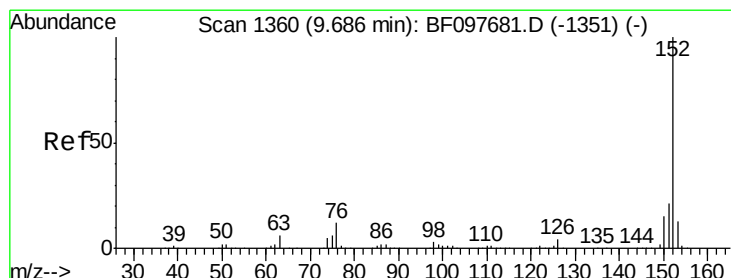
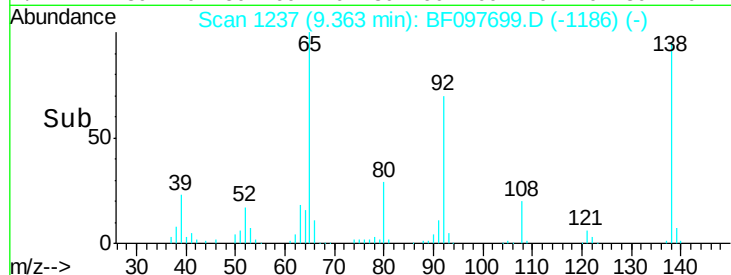
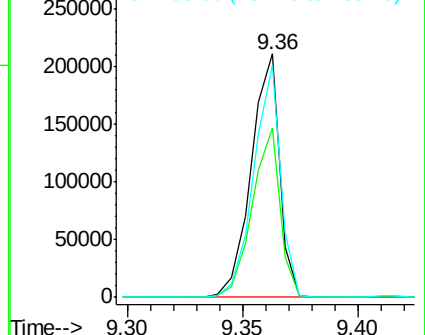
65 100

92 69.6 53.9 80.9

138 95.2 78.8 118.2



Abundance Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0
Ion 138.00 (137.70 to 138.70): E



#48

Acenaphthylene

Concen: 30.11 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

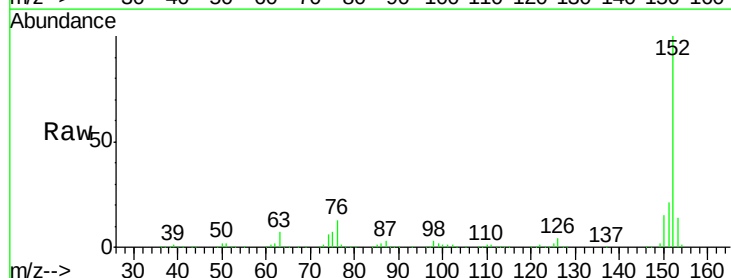
Tgt Ion: 152 Resp: 776910

Ion Ratio Lower Upper

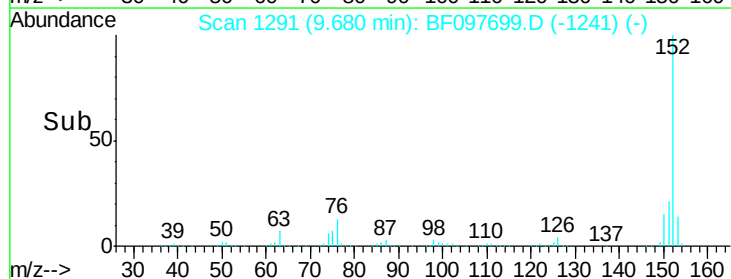
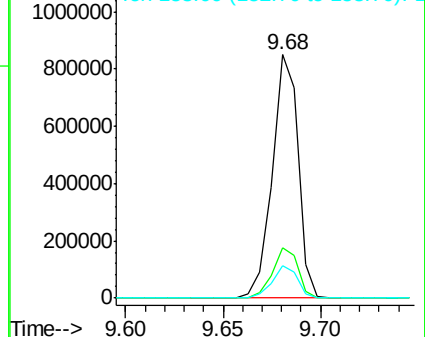
152 100

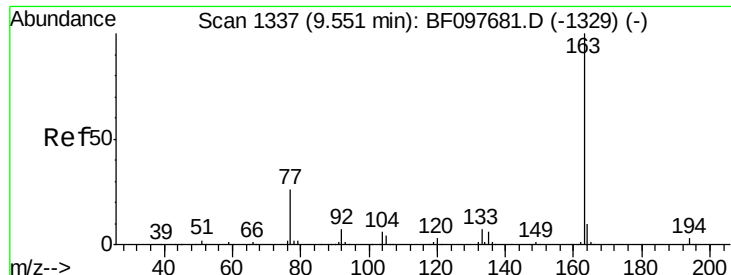
151 20.8 16.8 25.2

153 13.5 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

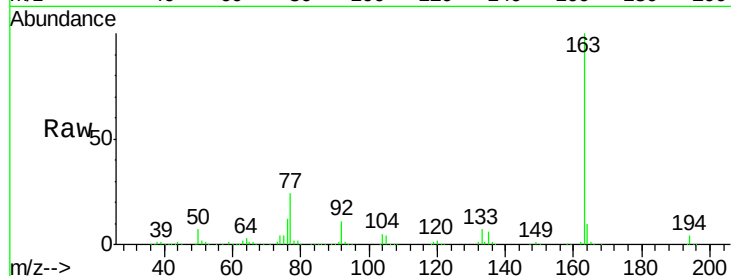




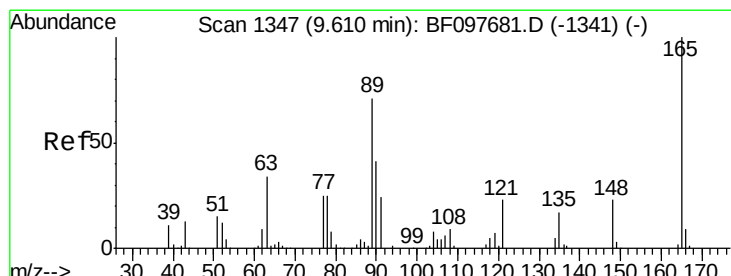
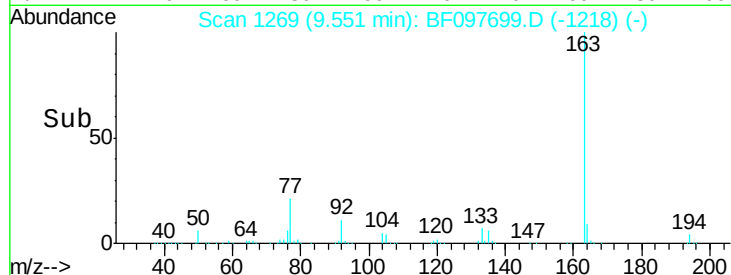
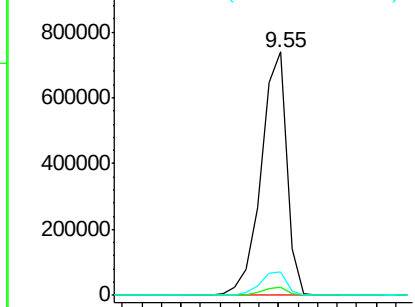
#49
Dimethylphthalate
Concen: 37.77 ng
RT: 9.55 min Scan# 1269
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

Tot Ion:163 Resp: 673284
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 9.9 8.4 12.6

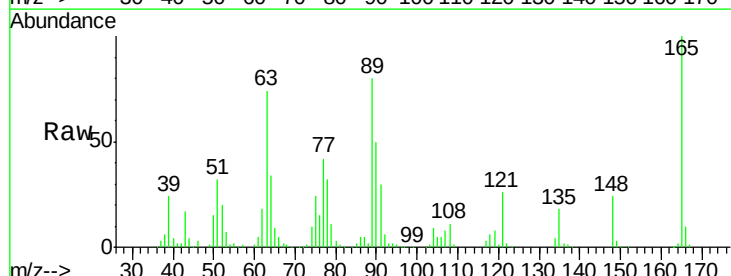


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

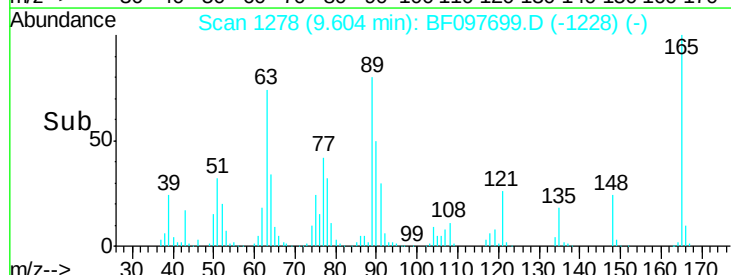
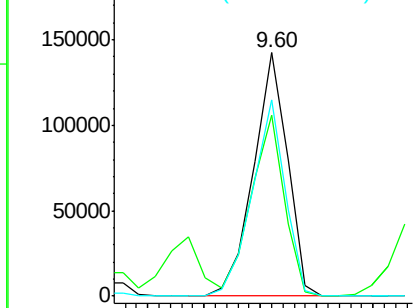


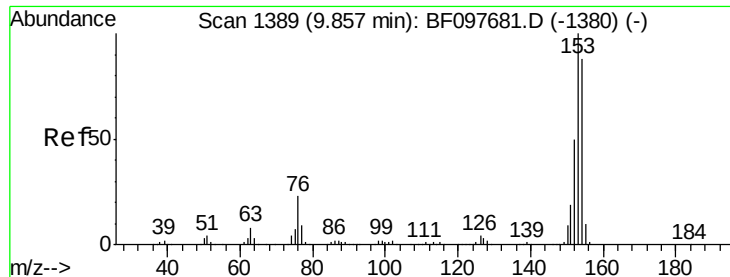
#50
2,6-Dinitrotoluene
Concen: 33.43 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:165 Resp: 118951
Ion Ratio Lower Upper
165 100
63 74.2 34.3 51.5#
89 80.4 37.1 55.7#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 31.47 ng

RT: 9.86 min Scan# 1321

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

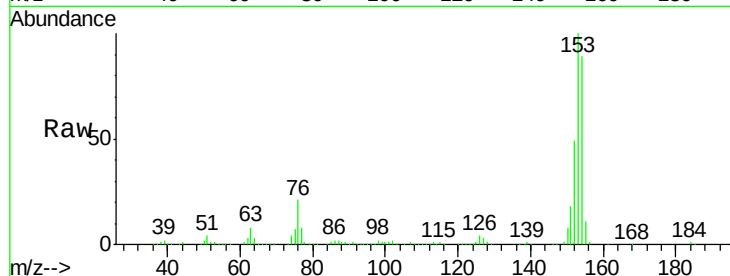
Tot Ion:154 Resp: 512098

Ion Ratio Lower Upper

154 100

153 112.9 90.5 135.7

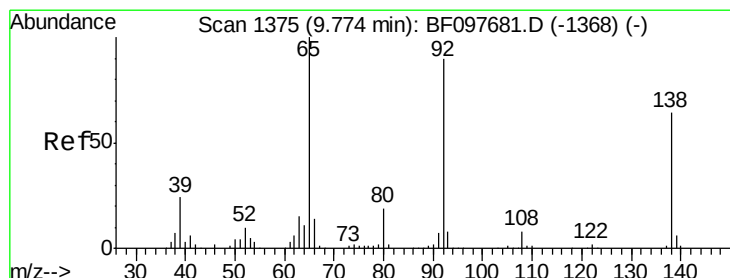
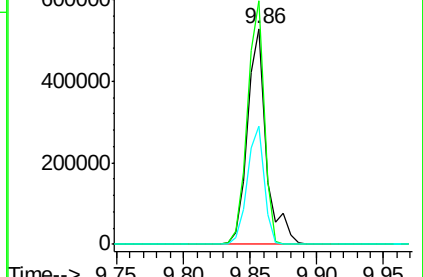
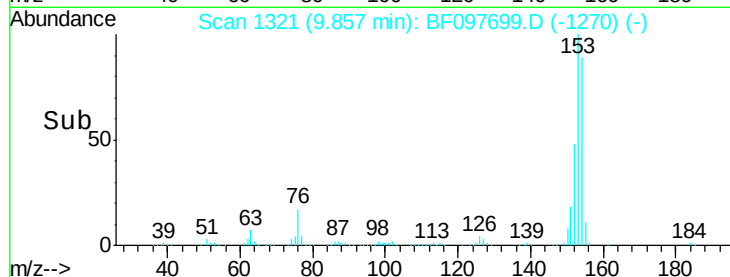
152 54.8 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 27.35 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

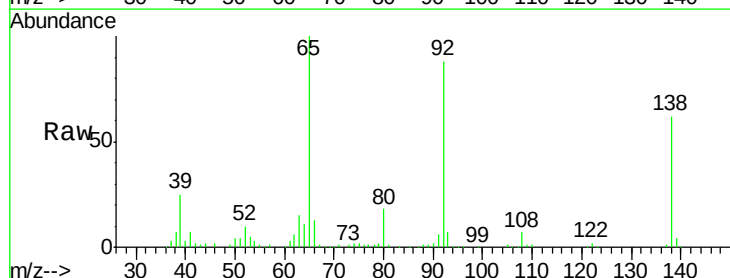
Tgt Ion:138 Resp: 125549

Ion Ratio Lower Upper

138 100

108 11.7 9.1 13.7

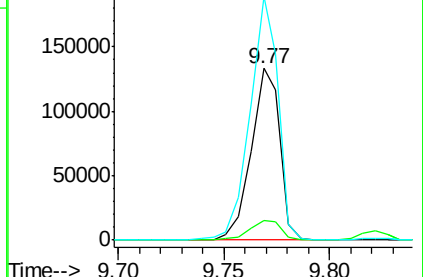
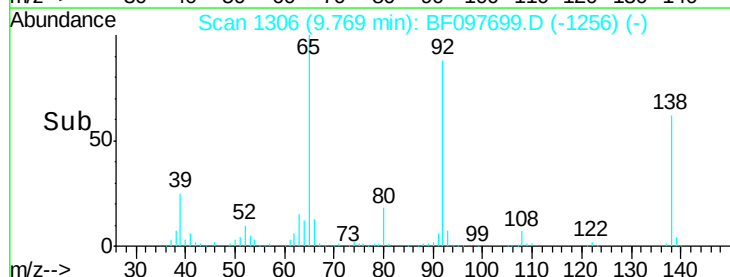
92 141.8 93.8 140.6#

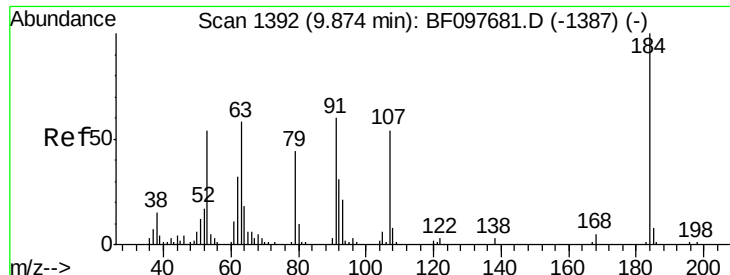


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

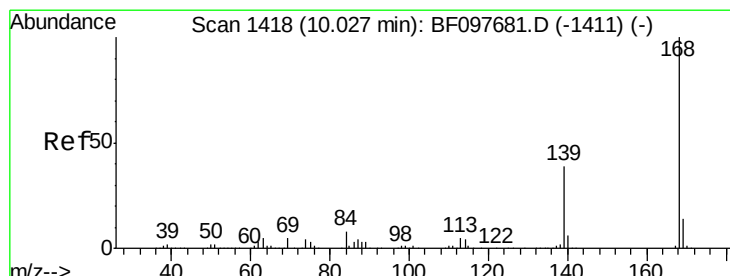
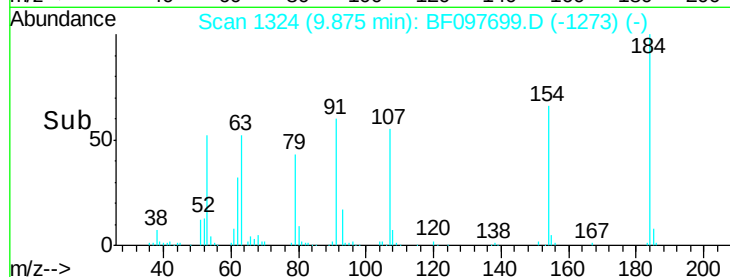
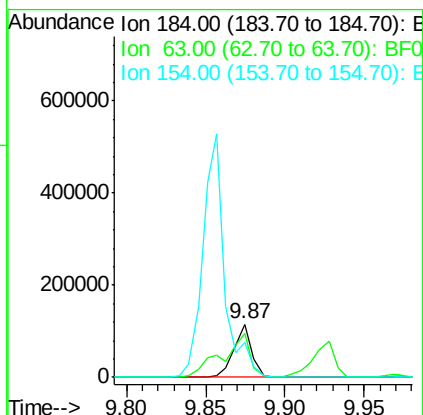
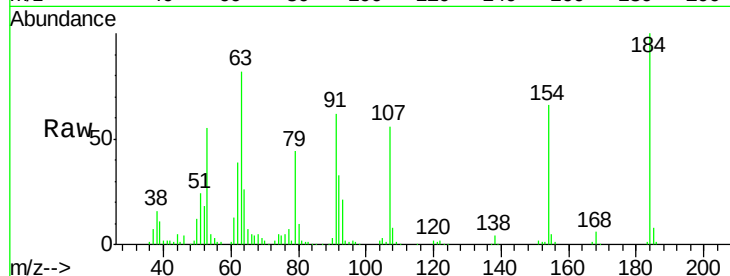




#53
2,4-Dinitrophenol
Concen: 57.02 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

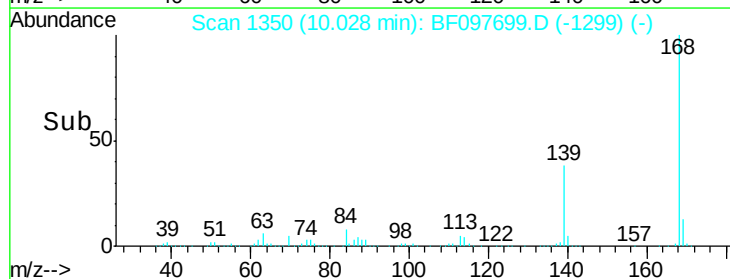
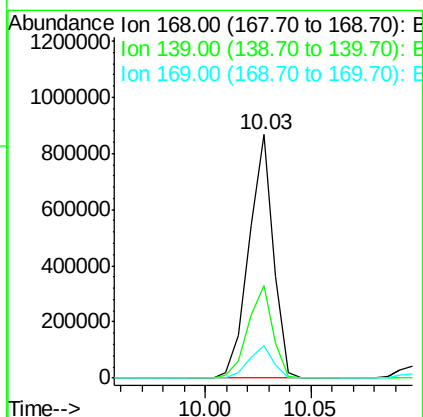
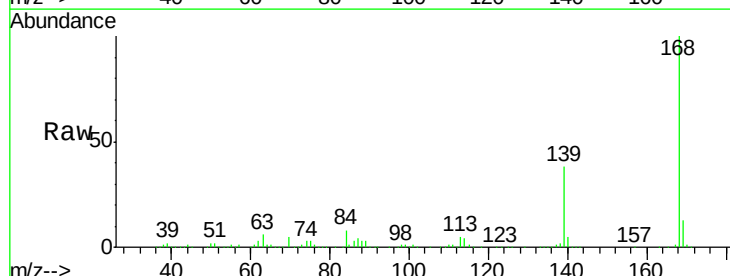
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

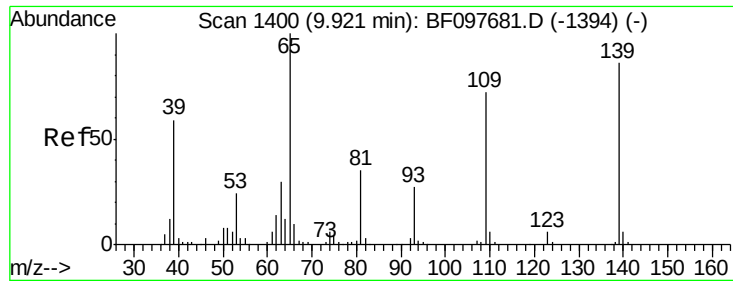
Tot Ion:184 Resp: 90862
Ion Ratio Lower Upper
184 100
63 82.4 62.7 94.1
154 66.3 81.1 121.7#



#54
Dibenzofuran
Concen: 31.91 ng
RT: 10.03 min Scan# 1350
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:168 Resp: 695789
Ion Ratio Lower Upper
168 100
139 38.1 30.6 45.8
169 13.4 10.8 16.2

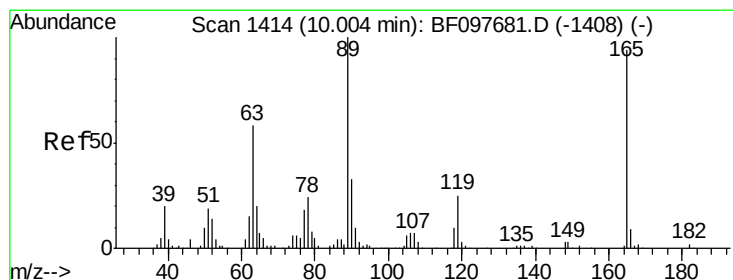
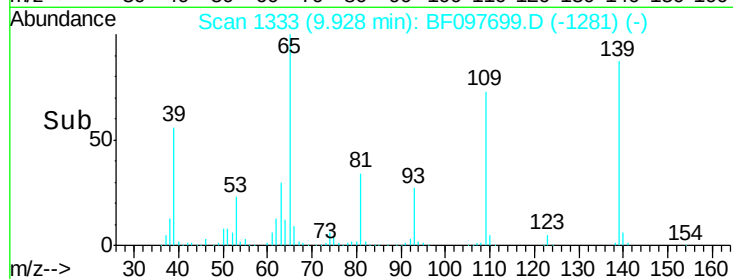
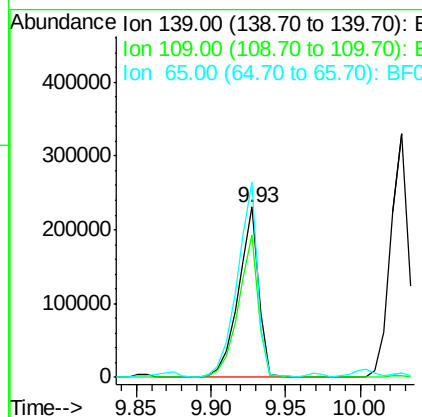
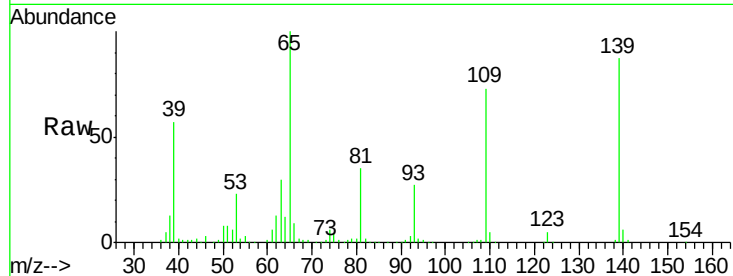




#55
4-Nitrophenol
Concen: 59.64 ng
RT: 9.93 min Scan# 1333
Delta R.T. 0.01 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

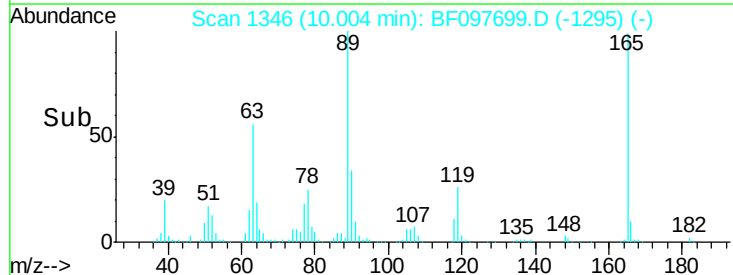
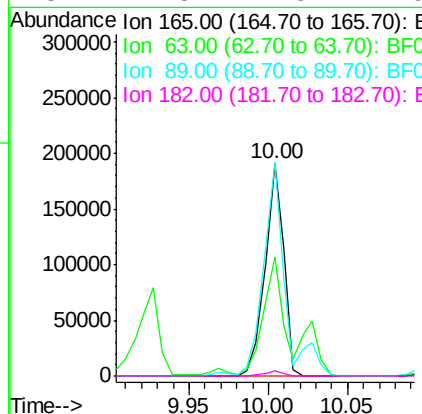
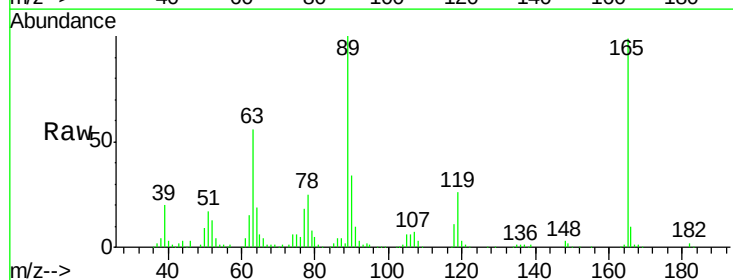
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

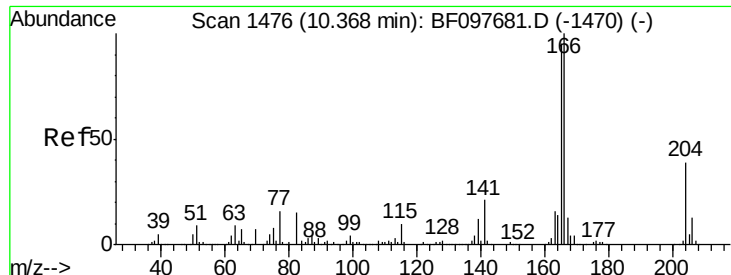
Tot Ion:139 Resp: 218401
Ion Ratio Lower Upper
139 100
109 83.8 34.1 74.1#
65 114.8 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 35.68 ng
RT: 10.00 min Scan# 1346
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:165 Resp: 159318
Ion Ratio Lower Upper
165 100
63 56.1 25.4 38.0#
89 100.5 46.4 69.6#
182 2.3 1.8 2.6

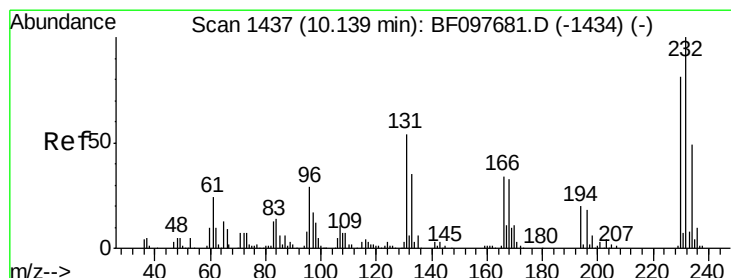
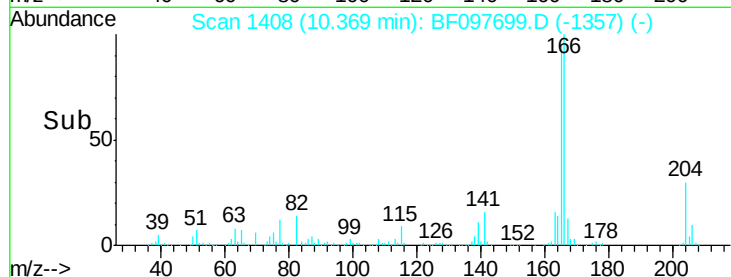
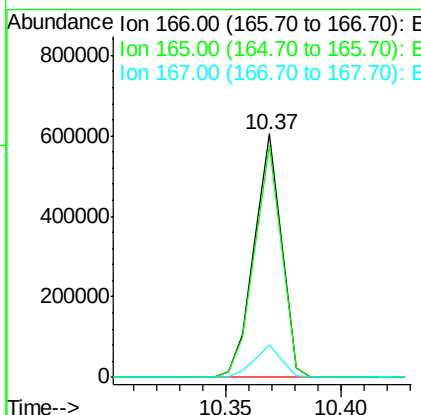
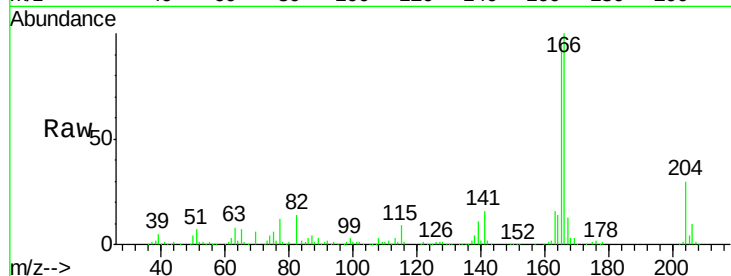




#57
Fluorene
 Concen: 29.92 ng
 RT: 10.37 min Scan# 1408
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

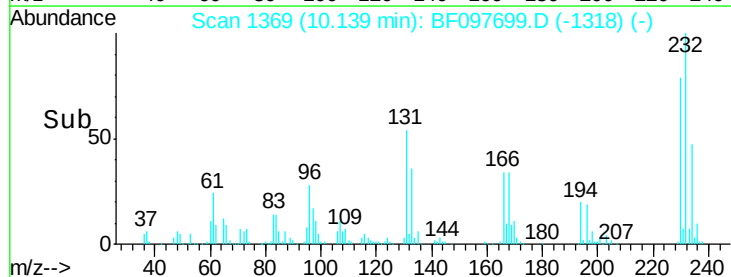
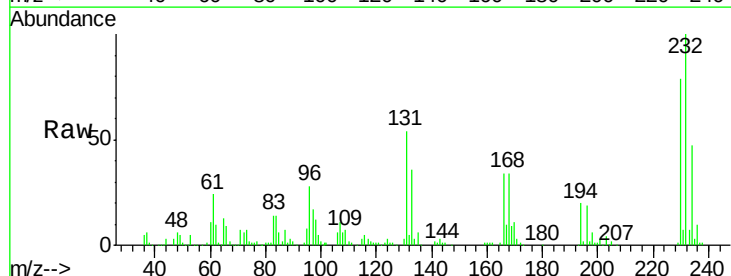
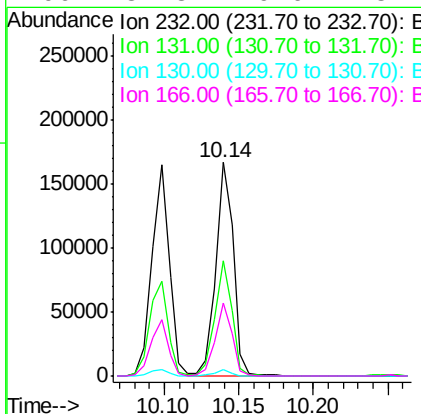
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

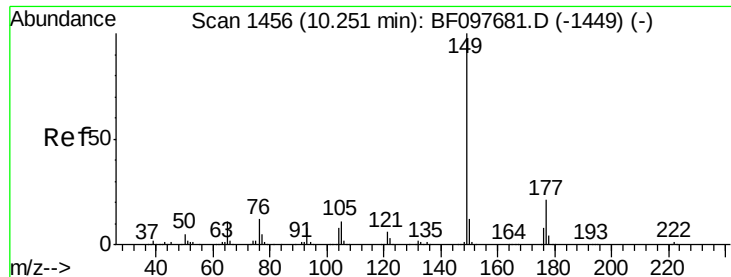
Tot Ion:166 Resp: 504510
 Ion Ratio Lower Upper
 166 100
 165 95.4 78.8 118.2
 167 13.3 10.6 16.0



#58
2,3,4,6-Tetrachlorophenol
 Concen: 35.85 ng
 RT: 10.14 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:232 Resp: 138338
 Ion Ratio Lower Upper
 232 100
 131 52.1 44.8 67.2
 130 2.8 2.3 3.5
 166 32.3 29.0 43.4

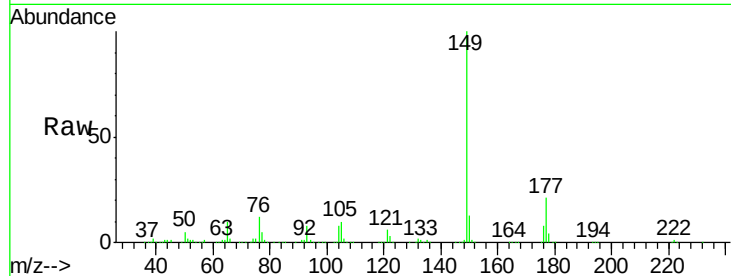




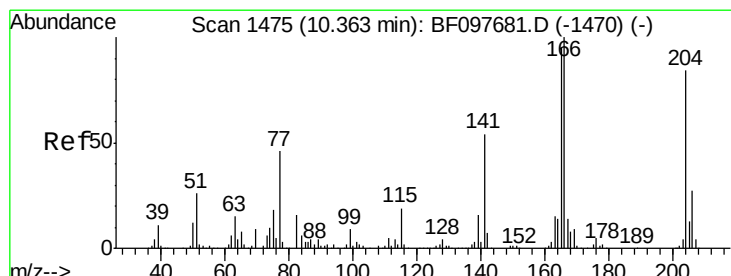
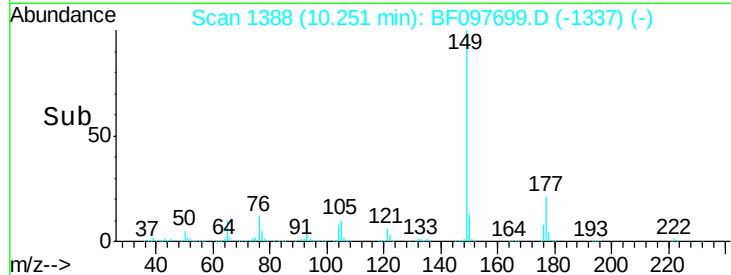
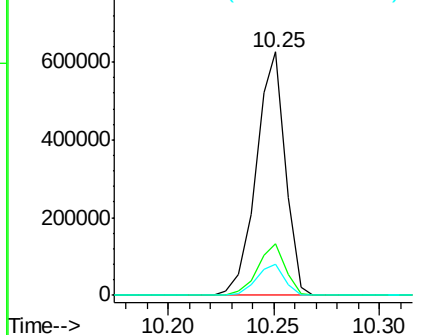
#59
Diethylphthalate
Concen: 31.98 ng
RT: 10.25 min Scan# 1388
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

Tot Ion:149 Resp: 596148
Ion Ratio Lower Upper
149 100
177 21.1 16.7 25.1
150 12.5 10.2 15.2

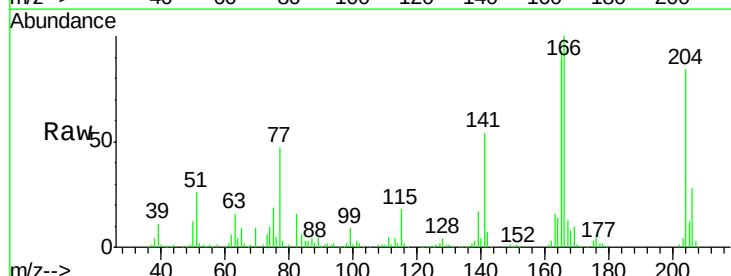


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

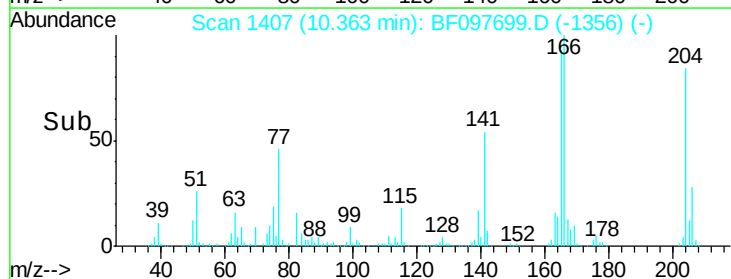
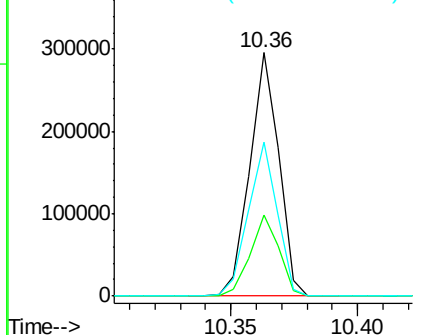


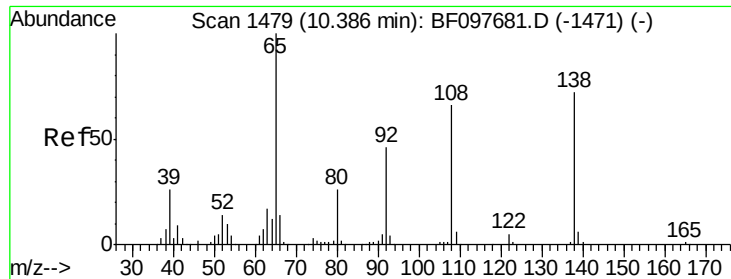
#60
4-Chlorophenyl-phenylether
Concen: 30.09 ng
RT: 10.36 min Scan# 1407
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:204 Resp: 235671
Ion Ratio Lower Upper
204 100
206 33.3 26.2 39.2
141 63.5 60.8 91.2



Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 30.51 ng

RT: 10.39 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

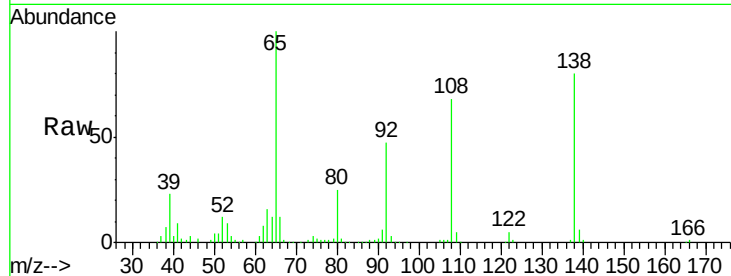
Tot Ion:138 Resp: 133108

Ion Ratio Lower Upper

138 100

92 57.9 21.8 61.8

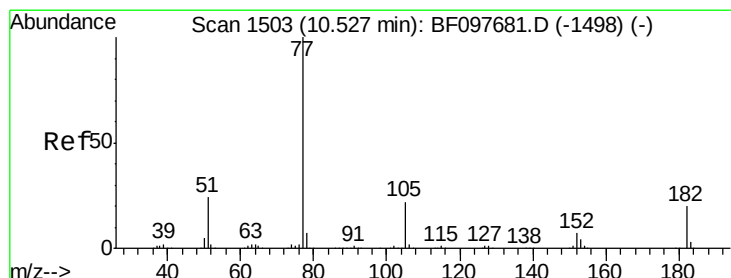
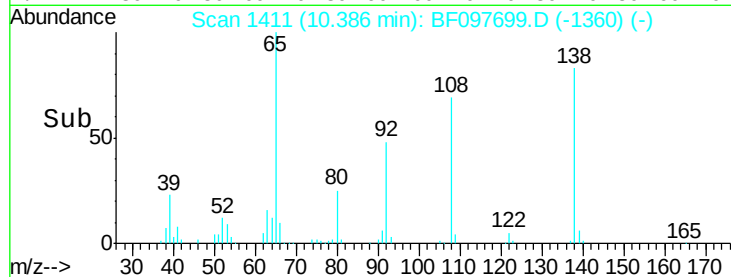
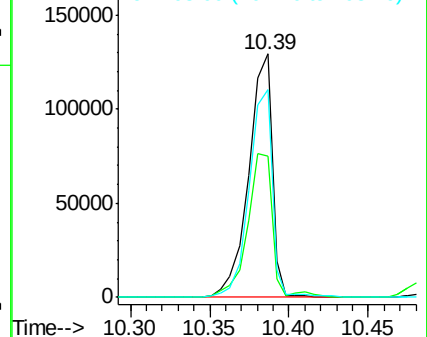
108 85.2 42.3 82.3#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 32.63 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Tgt Ion: 77 Resp: 722422

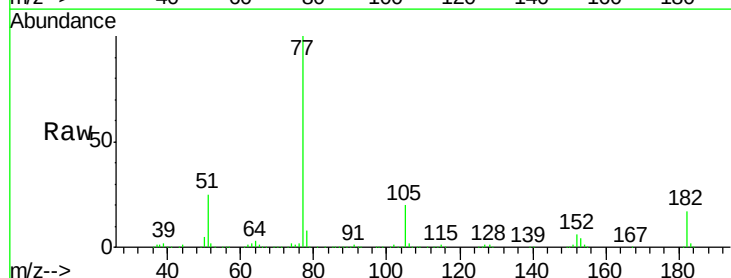
Ion Ratio Lower Upper

77 100

182 16.6 0.1 40.1

105 20.4 3.6 43.6

51 24.7 9.4 49.4

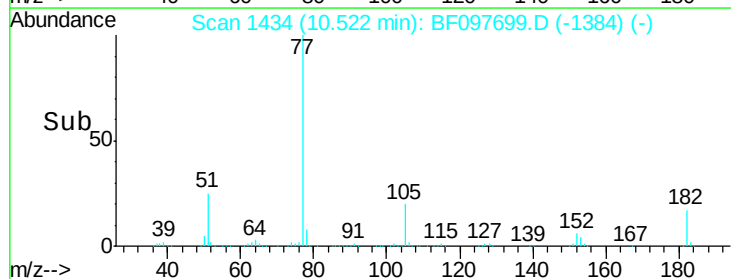
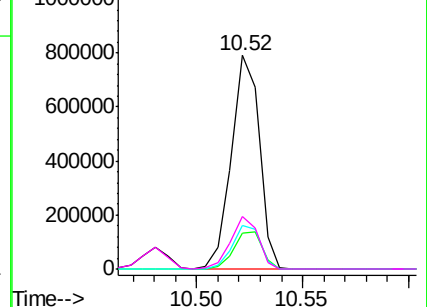


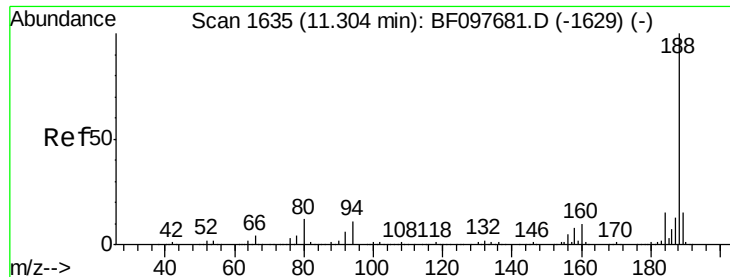
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

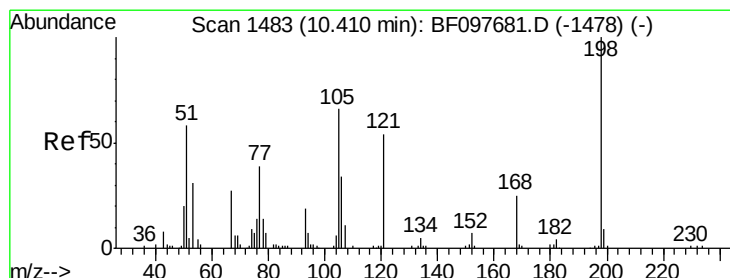
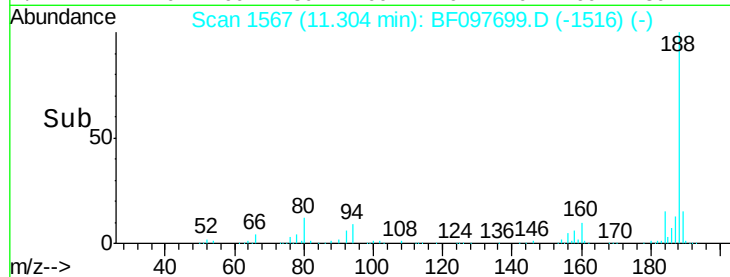
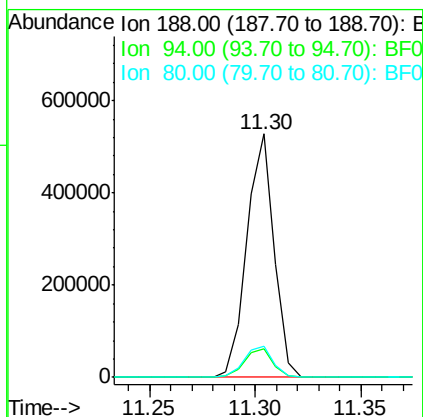
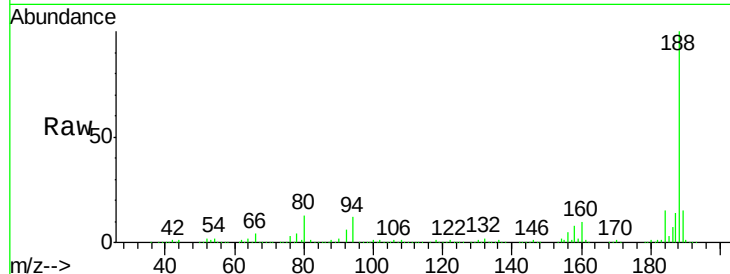




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 1567
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

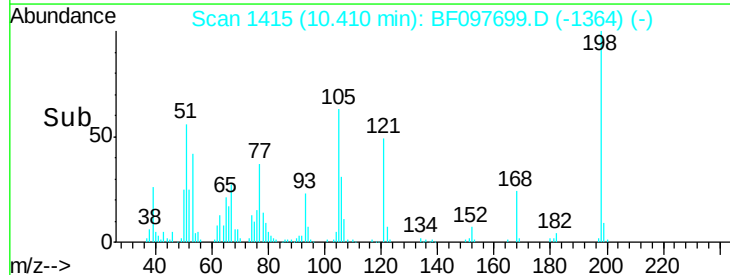
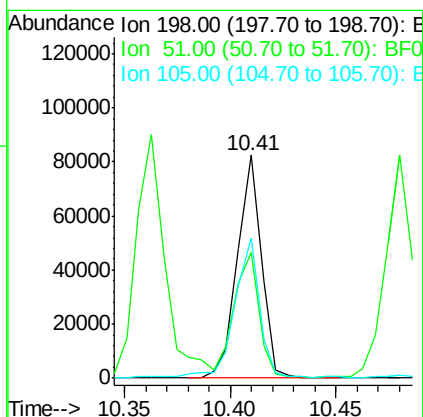
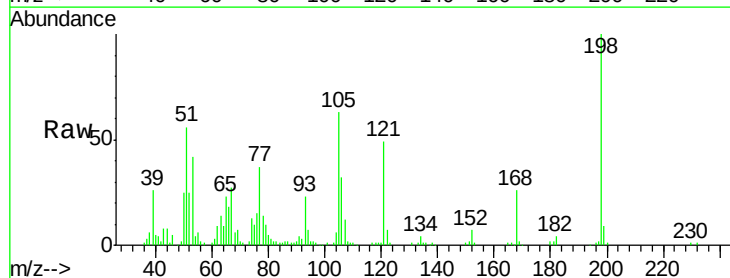
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

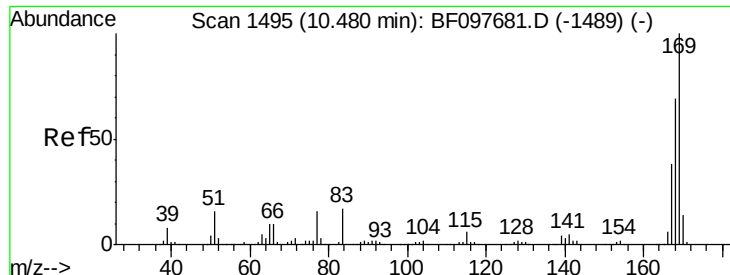
Tot Ion:188 Resp: 470128
Ion Ratio Lower Upper
188 100
94 11.6 9.4 14.2
80 12.5 10.2 15.2



#64
4,6-Dinitro-2-methylphenol
Concen: 32.54 ng
RT: 10.41 min Scan# 1415
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:198 Resp: 64904
Ion Ratio Lower Upper
198 100
51 56.3 53.2 93.2
105 62.7 45.8 85.8

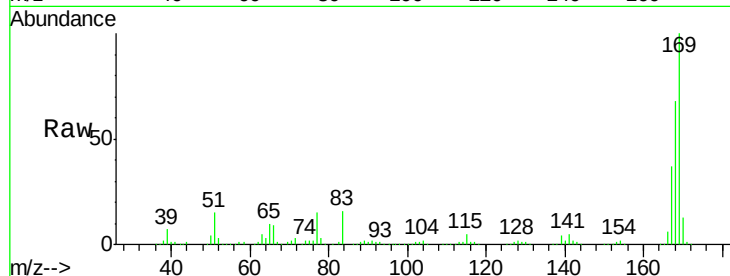




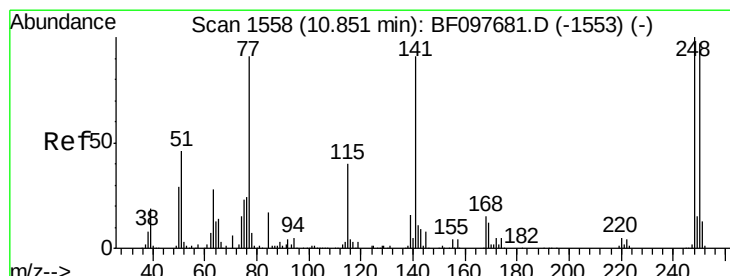
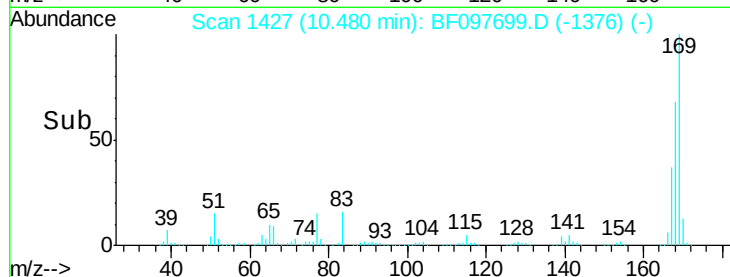
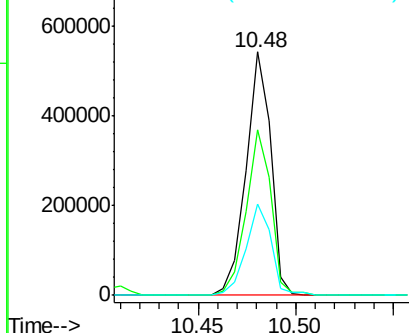
#65
n-Nitrosodiphenylamine
Concen: 29.72 ng
RT: 10.48 min Scan# 1427
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

Tot Ion:169 Resp: 475725
Ion Ratio Lower Upper
169 100
168 67.8 53.2 79.8
167 37.3 29.5 44.3

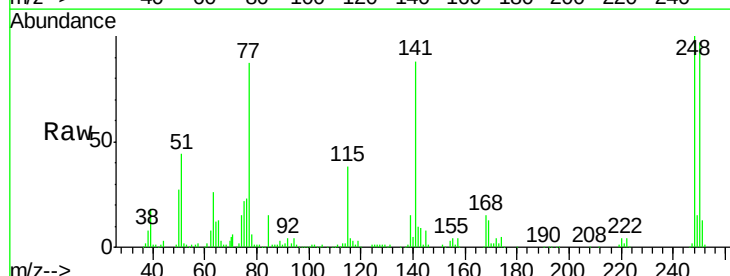


Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E

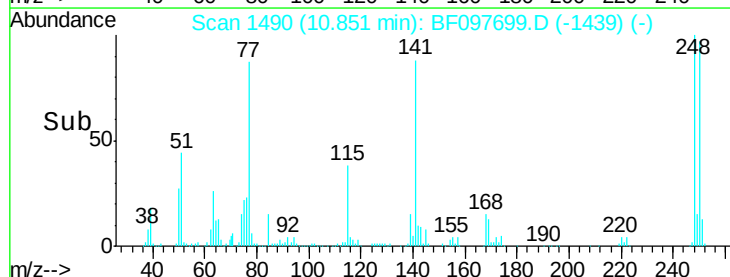
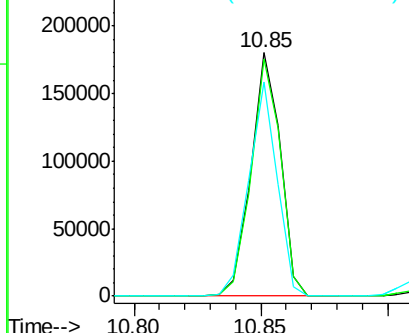


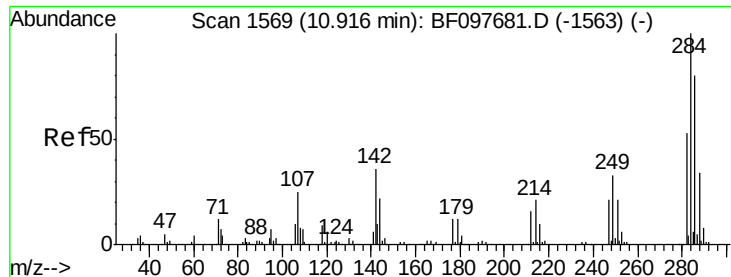
#66
4-Bromophenyl-phenylether
Concen: 29.84 ng
RT: 10.85 min Scan# 1490
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:248 Resp: 145667
Ion Ratio Lower Upper
248 100
250 97.5 76.8 115.2
141 87.8 68.6 103.0



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 28.29 ng

RT: 10.92 min Scan# 1501

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

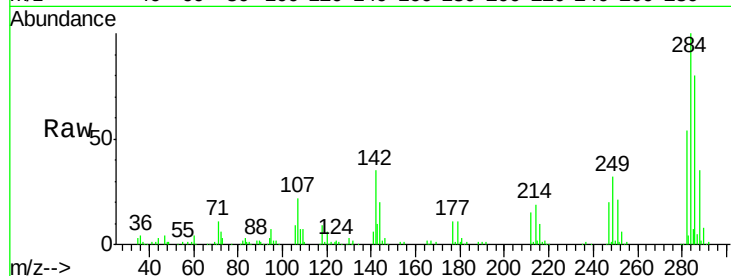
Tot Ion:284 Resp: 140781

Ion Ratio Lower Upper

284 100

142 34.7 22.8 34.2#

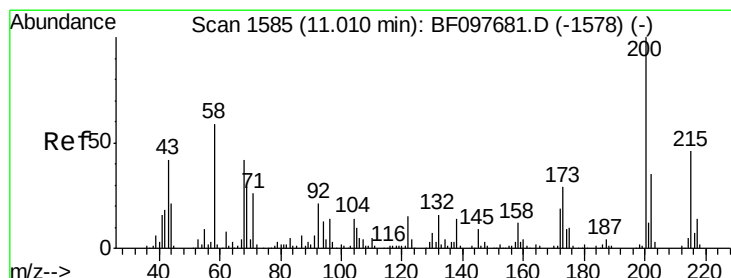
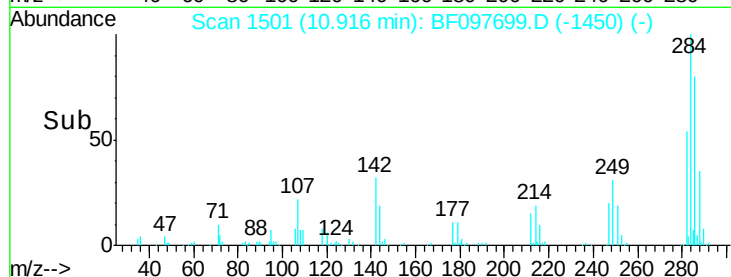
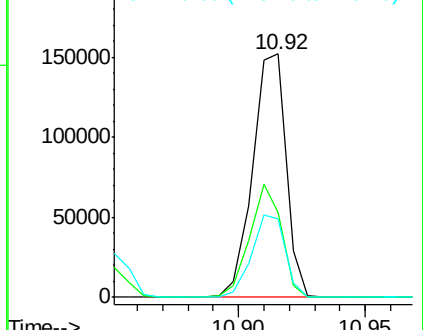
249 32.5 24.0 36.0



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 33.53 ng

RT: 11.01 min Scan# 1517

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

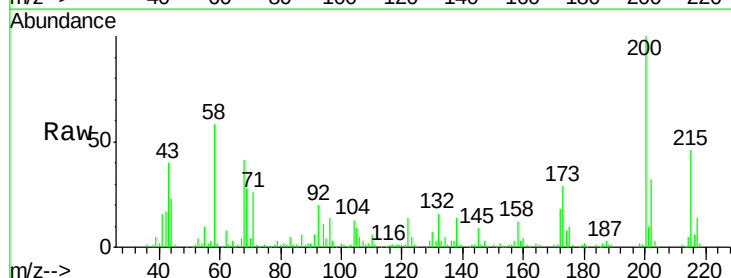
Tgt Ion:200 Resp: 142376

Ion Ratio Lower Upper

200 100

173 28.7 6.3 46.3

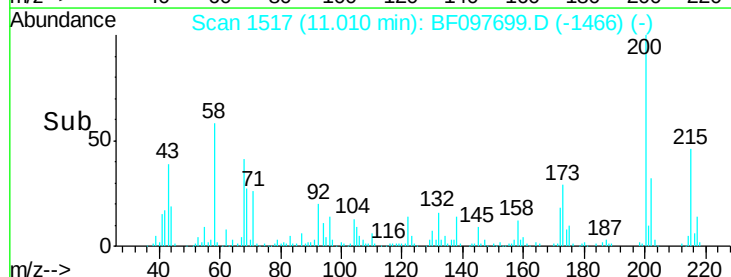
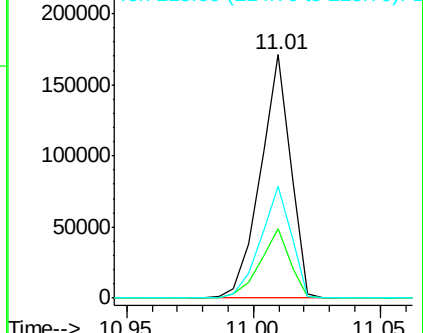
215 45.9 27.2 67.2

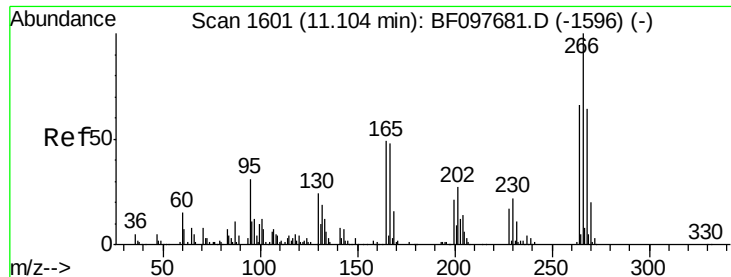


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

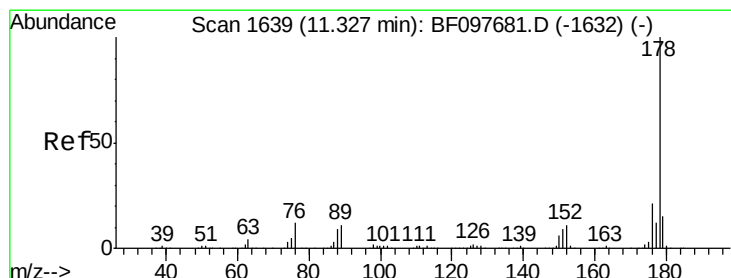
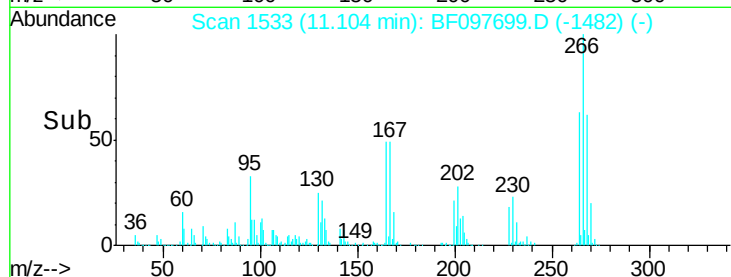
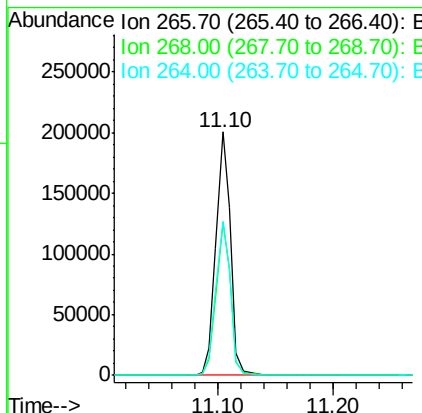
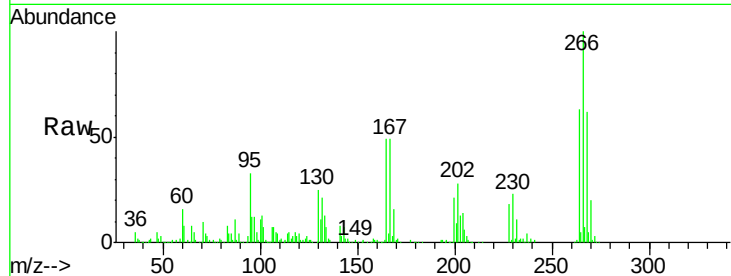




#69
 Pentachlorophenol
 Concen: 60.74 ng
 RT: 11.10 min Scan# 1533
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

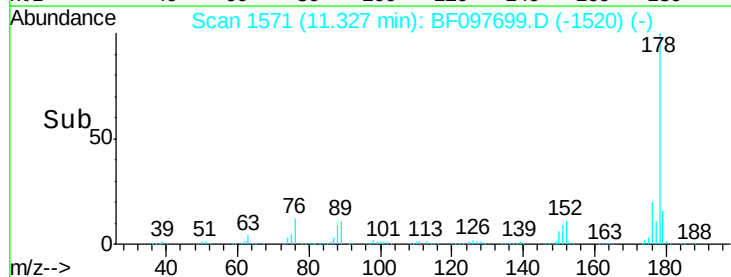
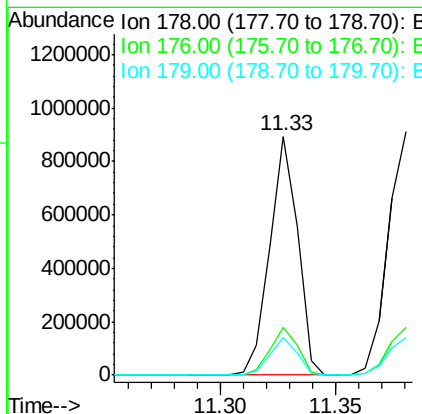
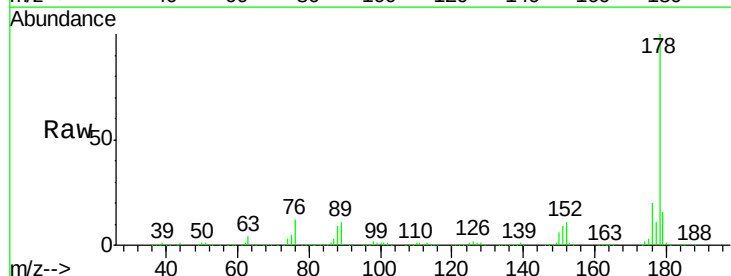
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

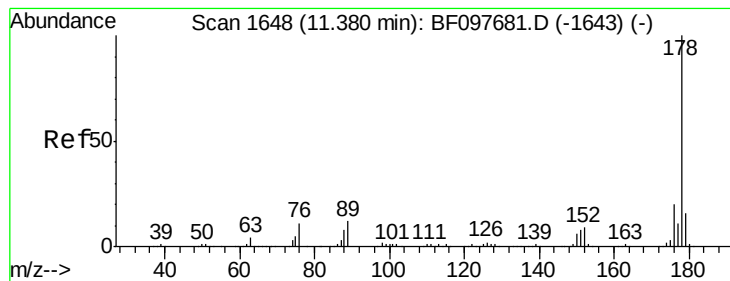
Tot Ion:266 Resp: 176239
 Ion Ratio Lower Upper
 266 100
 268 62.5 51.1 76.7
 264 63.3 51.7 77.5



#70
 Phenanthrene
 Concen: 30.03 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:178 Resp: 752356
 Ion Ratio Lower Upper
 178 100
 176 20.3 16.2 24.4
 179 15.8 12.6 19.0





#71

Anthracene

Concen: 30.21 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

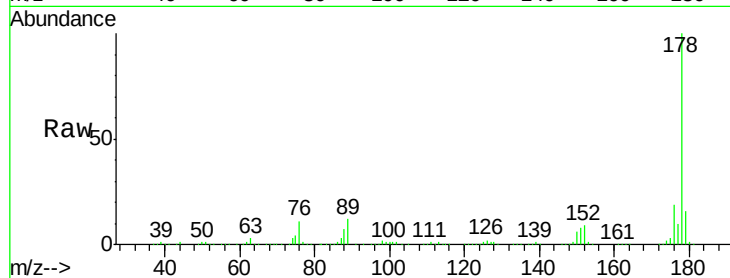
Tot Ion:178 Resp: 767613

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

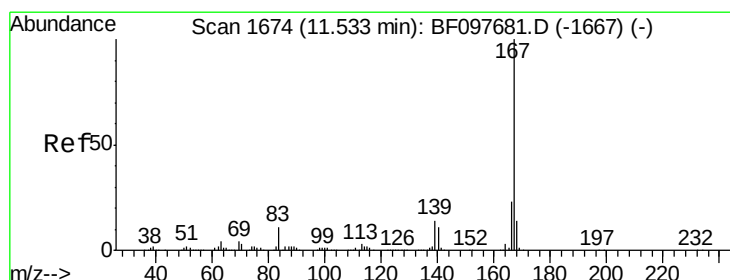
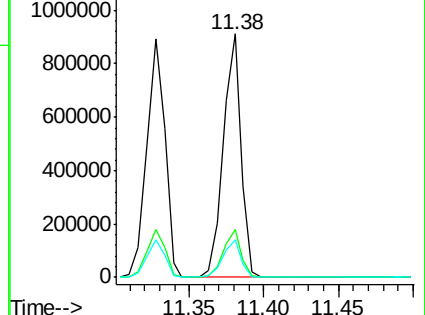
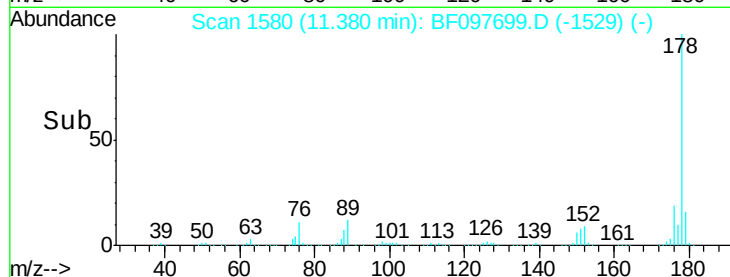
179 15.5 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 29.40 ng

RT: 11.53 min Scan# 1606

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

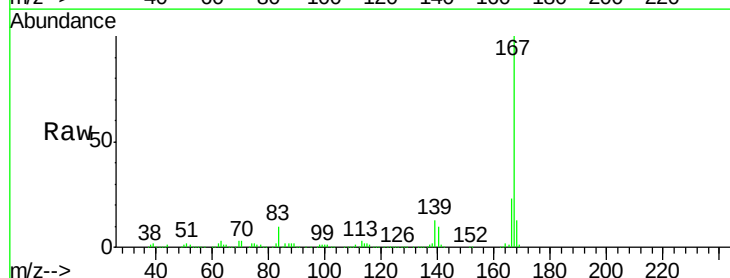
Tgt Ion:167 Resp: 709103

Ion Ratio Lower Upper

167 100

166 22.6 18.1 27.1

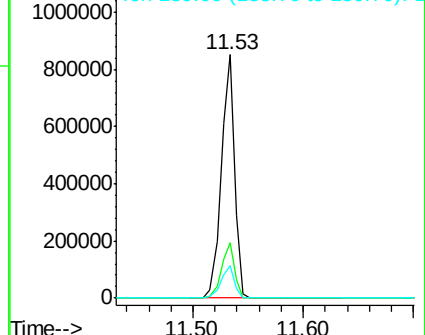
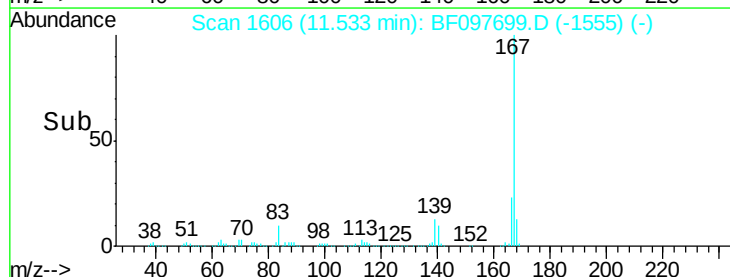
139 13.2 11.7 17.5

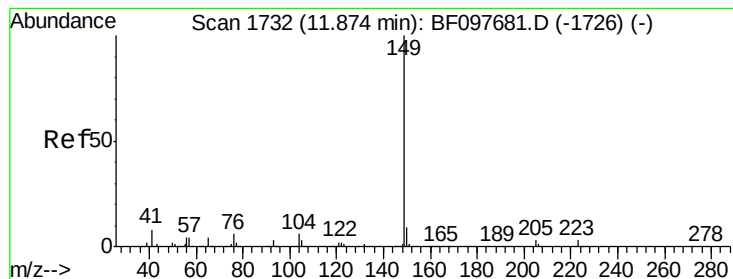


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 32.96 ng

RT: 11.87 min Scan# 1664

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

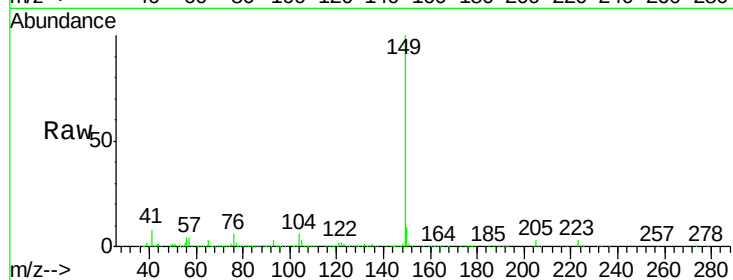
Tot Ion:149 Resp: 915618

Ion Ratio Lower Upper

149 100

150 9.4 7.7 11.5

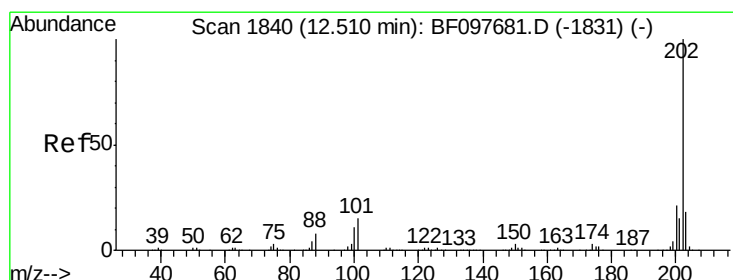
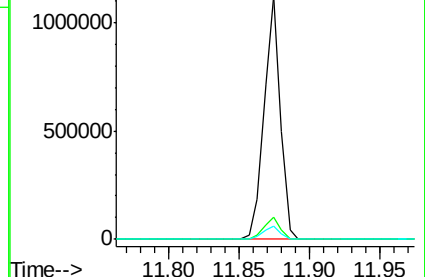
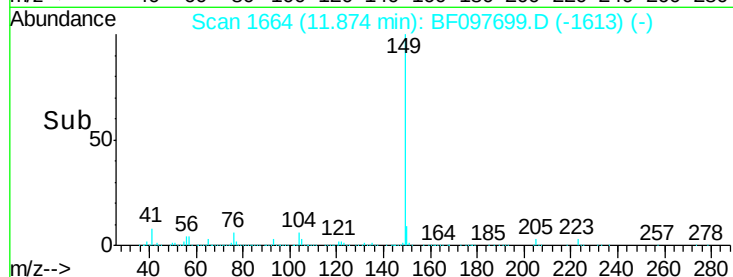
104 5.6 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 28.49 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

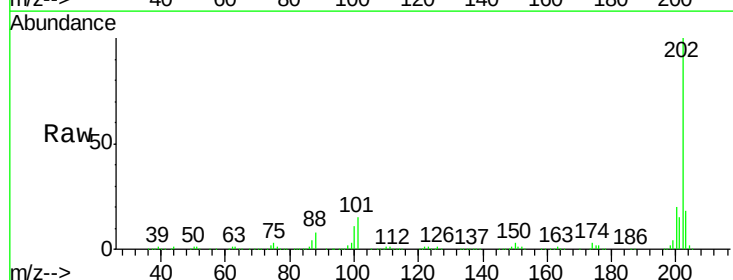
Tgt Ion:202 Resp: 745028

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.2

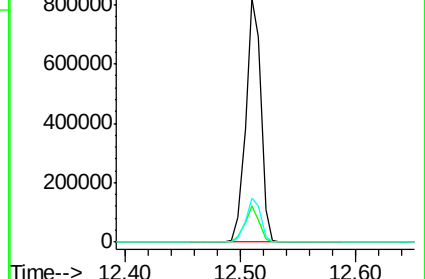
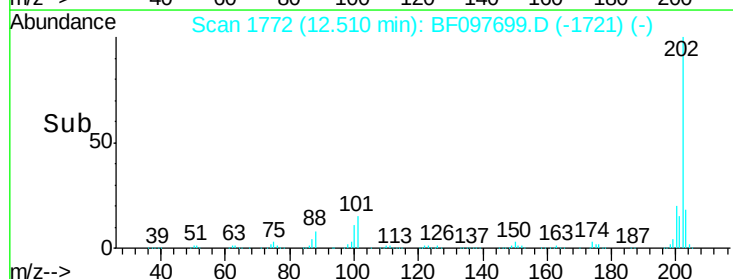
203 17.9 0.0 38.1

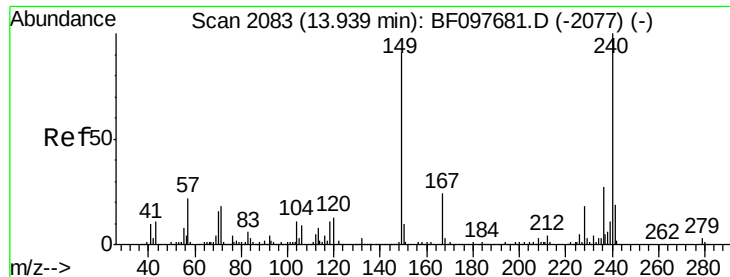


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

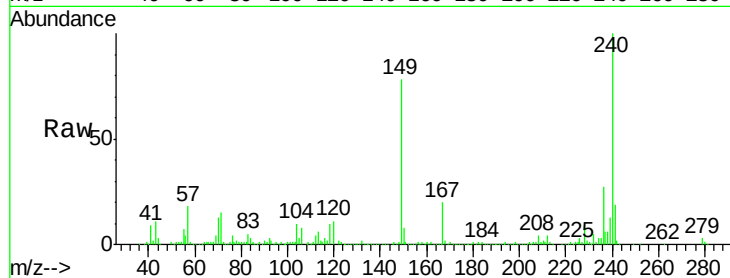
Tot Ion:240 Resp: 283606

Ion Ratio Lower Upper

240 100

120 11.3 5.8 8.8#

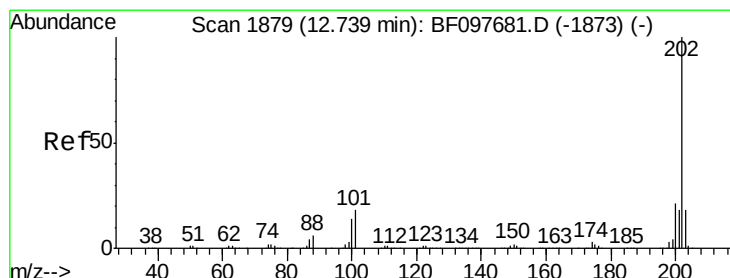
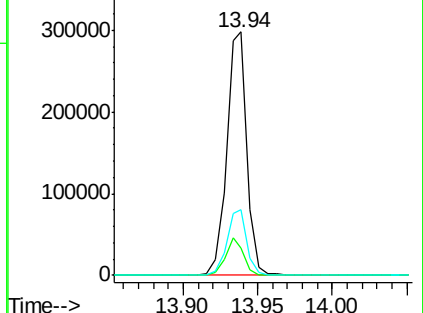
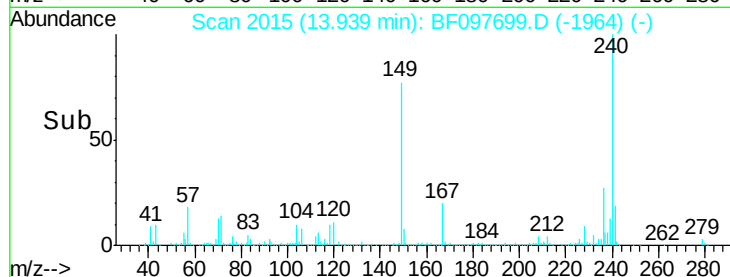
236 27.2 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 32.08 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

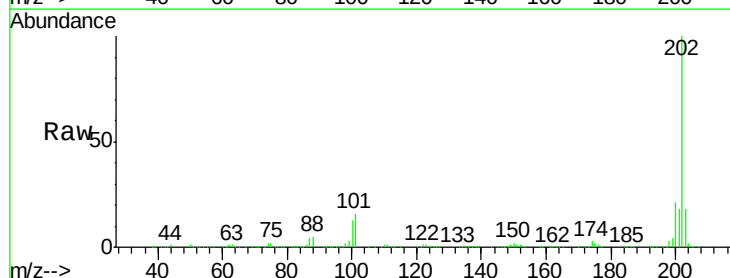
Tgt Ion:202 Resp: 744216

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

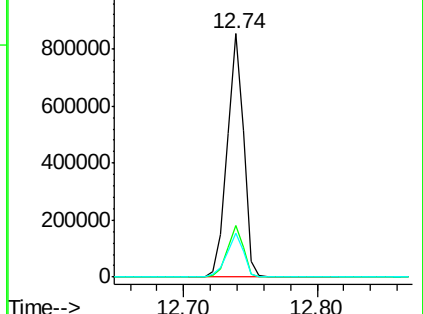
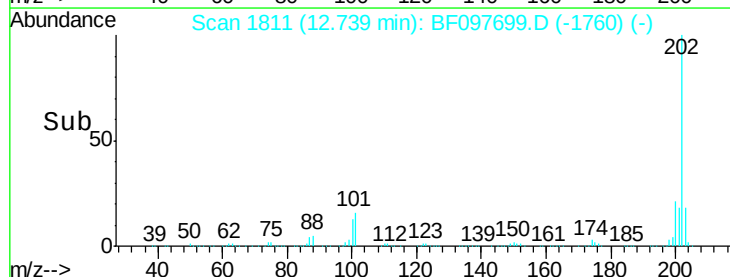
203 18.0 14.4 21.6

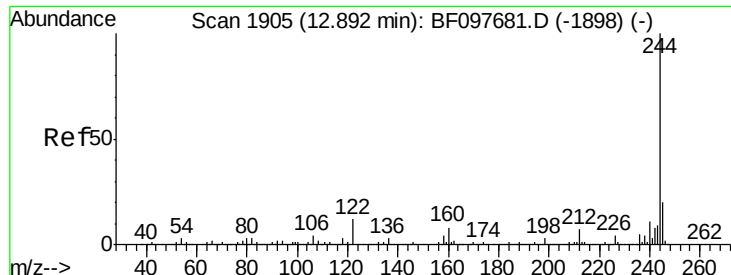


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

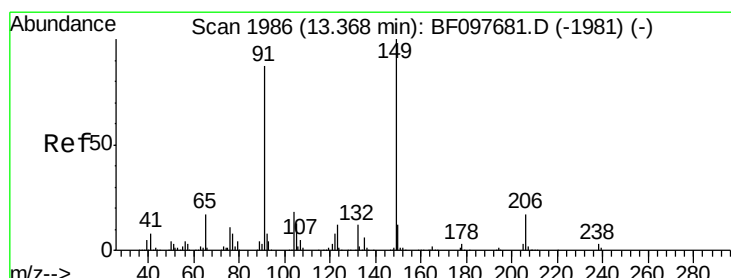
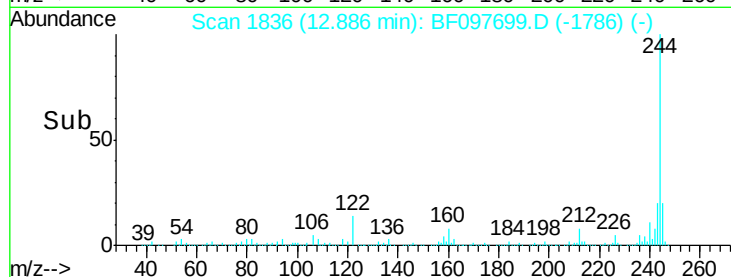
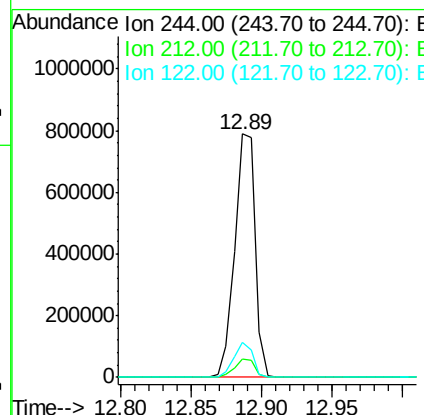
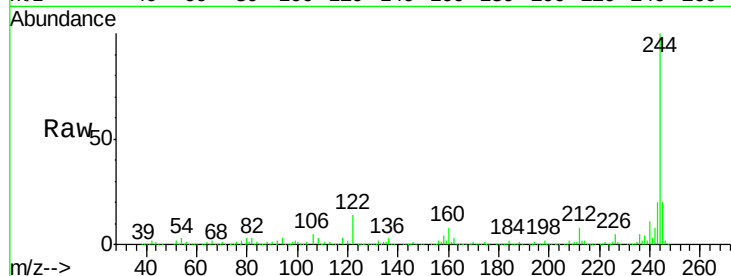




#78
 Terphenyl-d14
 Concen: 58.24 ng
 RT: 12.89 min Scan# 1836
 Delta R.T. -0.01 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

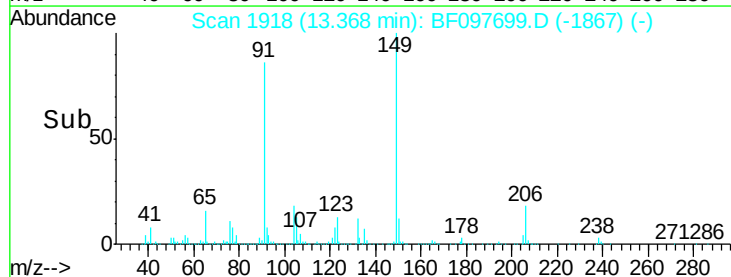
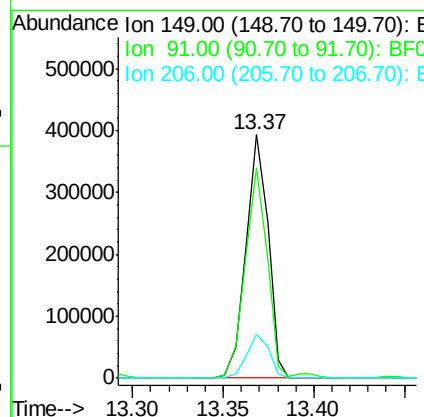
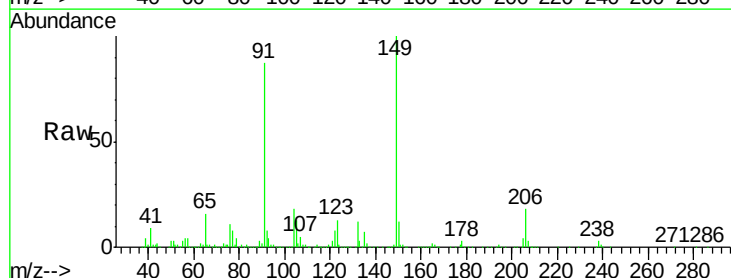
Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

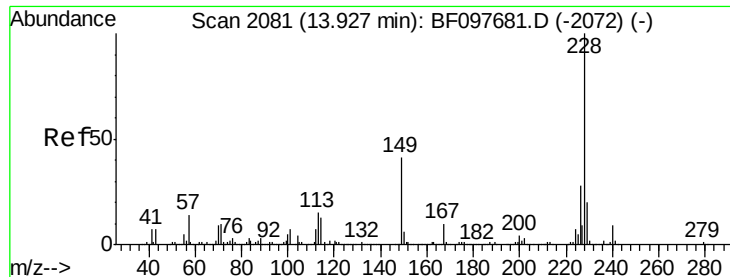
Tot Ion:244 Resp: 792129
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.0 9.0
 122 14.4 10.3 15.5



#79
 Butylbenzylphthalate
 Concen: 37.72 ng
 RT: 13.37 min Scan# 1918
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:149 Resp: 335486
 Ion Ratio Lower Upper
 149 100
 91 86.6 45.0 67.4#
 206 18.2 17.0 25.6





#80

Benzo(a)anthracene

Concen: 29.91 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

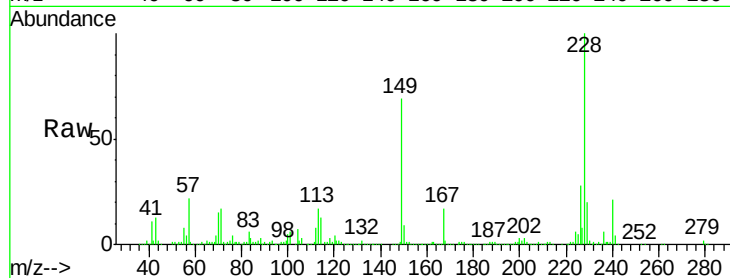
Tot Ion:228 Resp: 508372

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

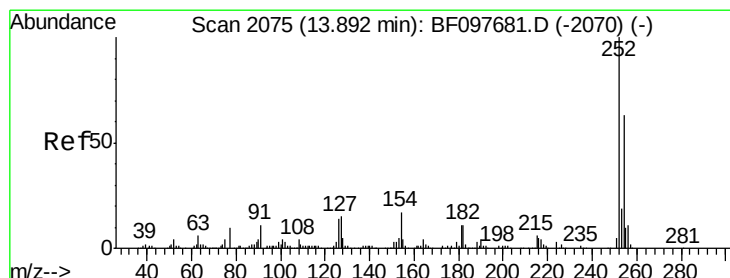
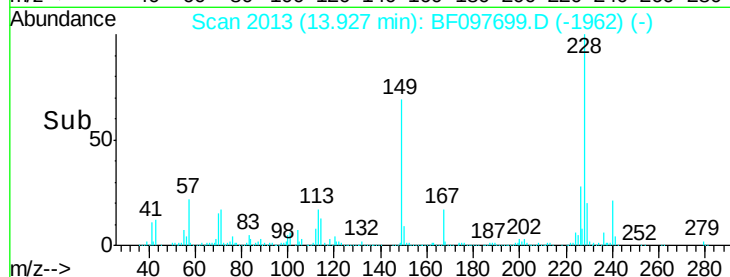
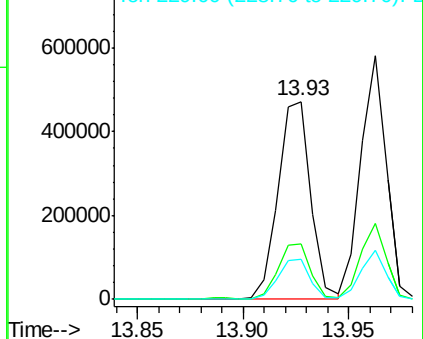
229 20.1 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#81

3,3'-Dichlorobenzidine

Concen: 27.64 ng

RT: 13.89 min Scan# 2007

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

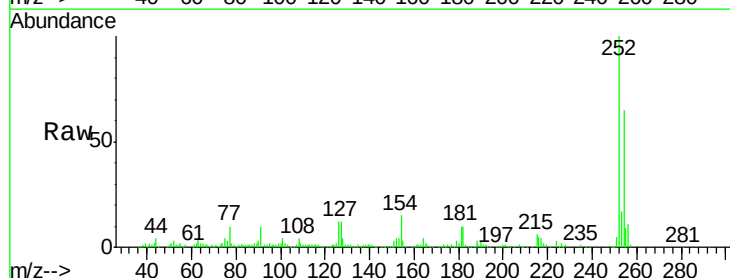
Tgt Ion:252 Resp: 158551

Ion Ratio Lower Upper

252 100

254 64.6 51.5 77.3

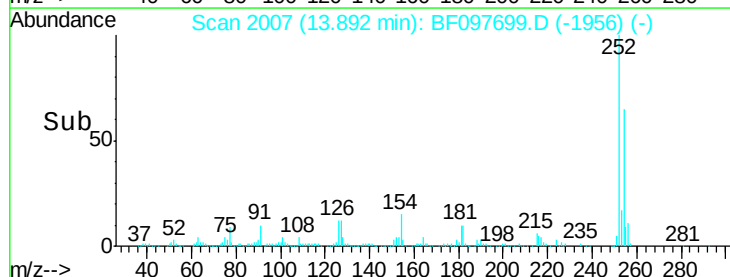
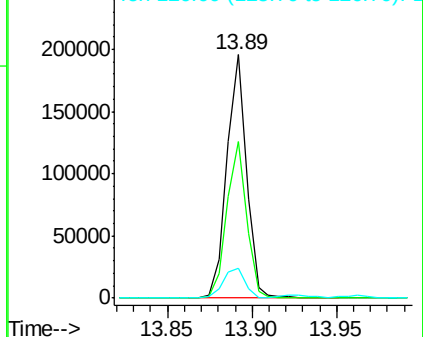
126 12.5 15.8 23.8#

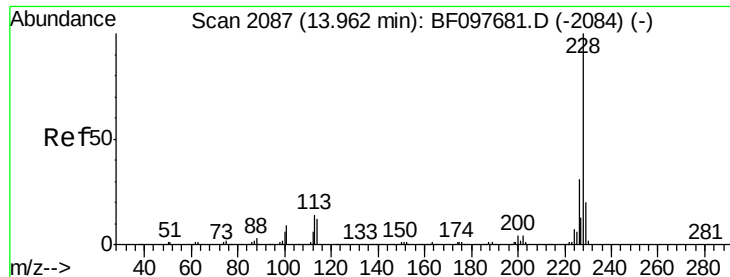


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 29.26 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-MATERIAL-COMPMSD

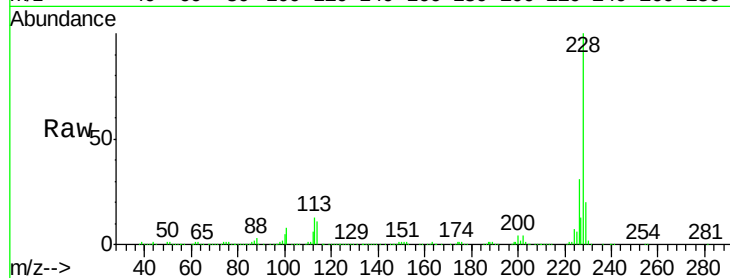
Tot Ion:228 Resp: 494751

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

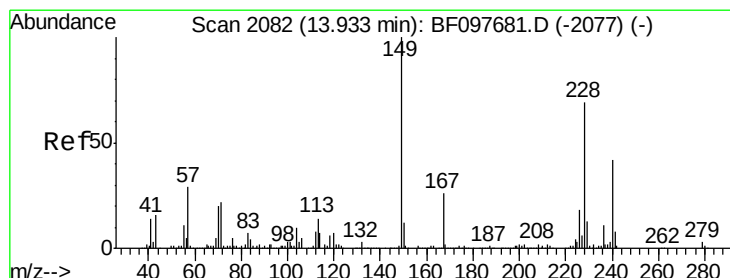
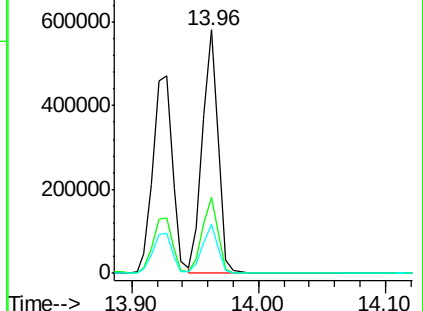
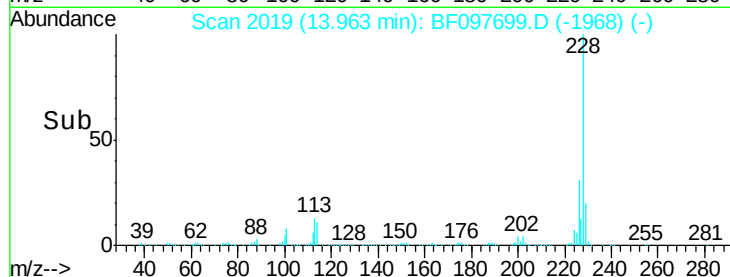
229 20.1 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 41.29 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BF097699.D

Acq: 15 Aug 2017 19:03

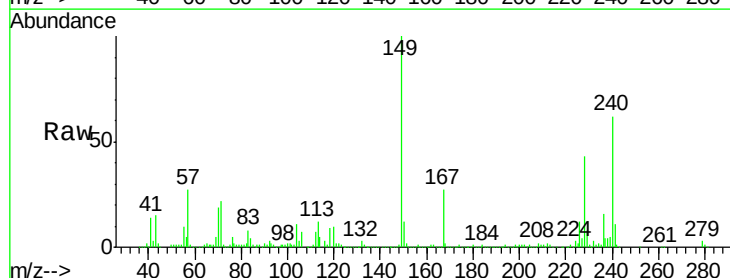
Tgt Ion:149 Resp: 406943

Ion Ratio Lower Upper

149 100

167 26.6 21.0 31.4

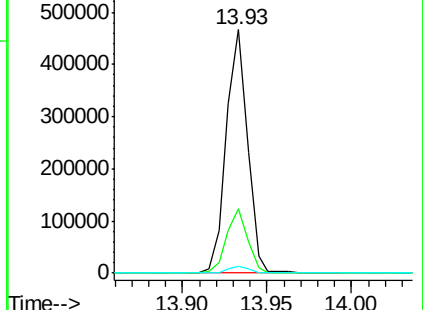
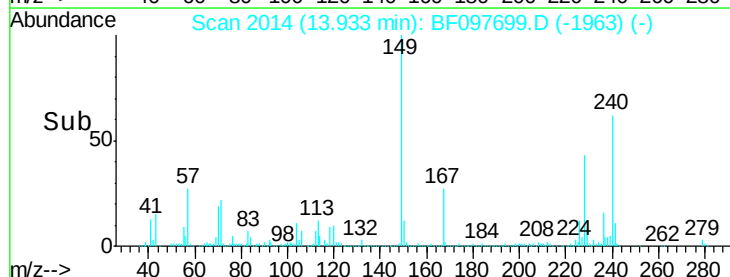
279 2.9 1.9 2.9#

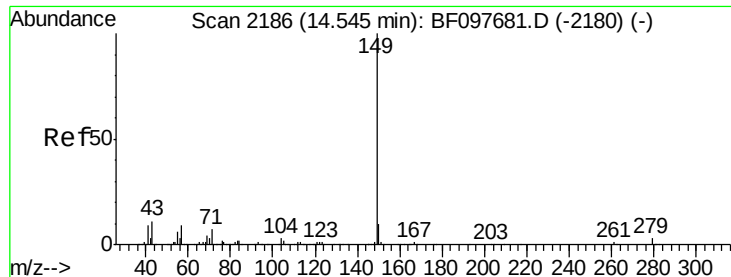


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

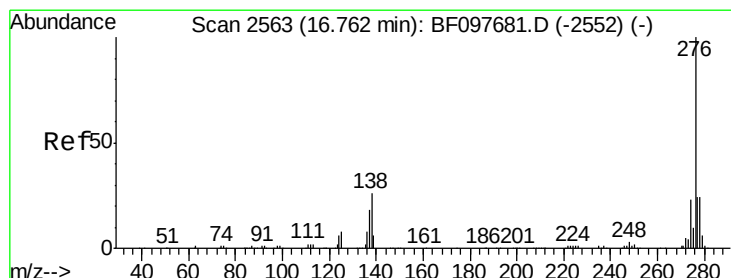
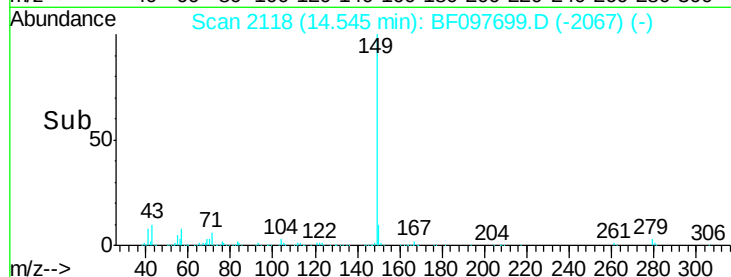
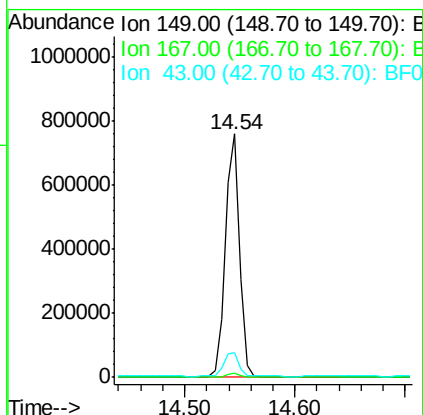
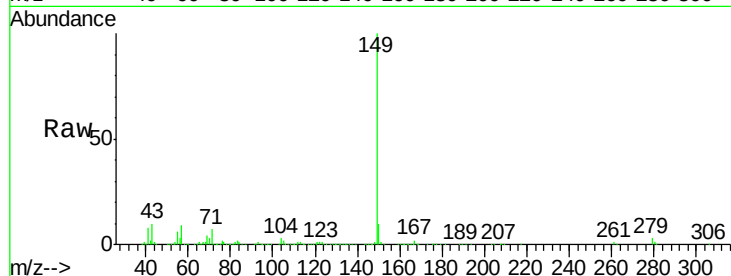




#84
Di-n-octyl phthalate
Concen: 39.53 ng
RT: 14.54 min Scan# 2118
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

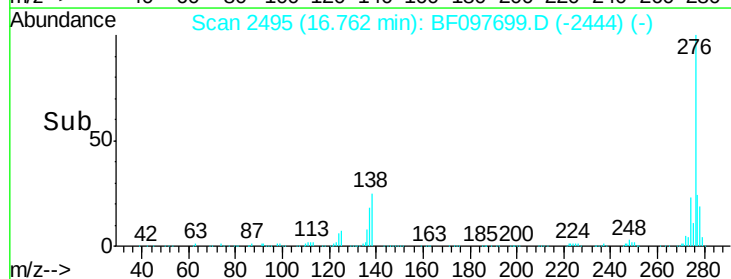
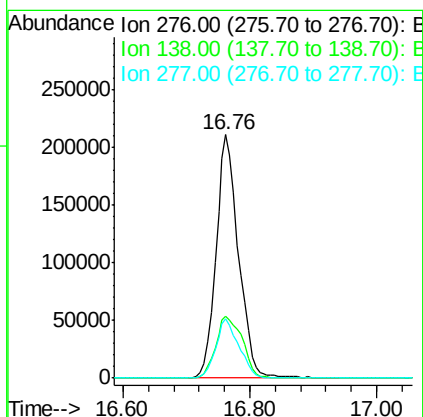
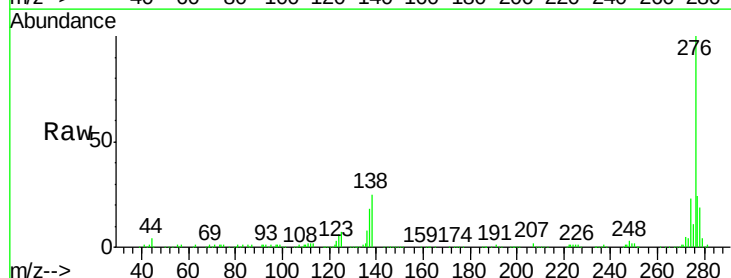
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

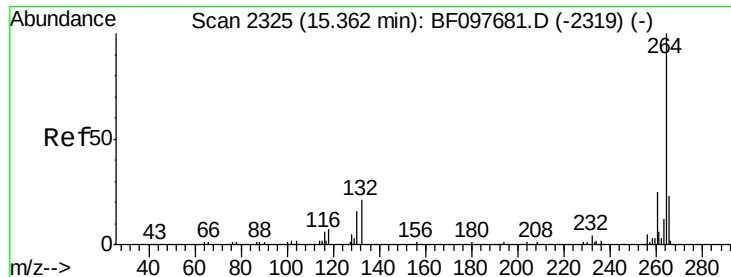
Tot Ion:149 Resp: 677848
Ion Ratio Lower Upper
149 100
167 1.6 1.2 1.8
43 10.6 8.5 12.7



#85
Indeno(1,2,3-cd)pyrene
Concen: 41.89 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:276 Resp: 521070
Ion Ratio Lower Upper
276 100
138 30.1 27.8 41.6
277 25.1 20.2 30.4



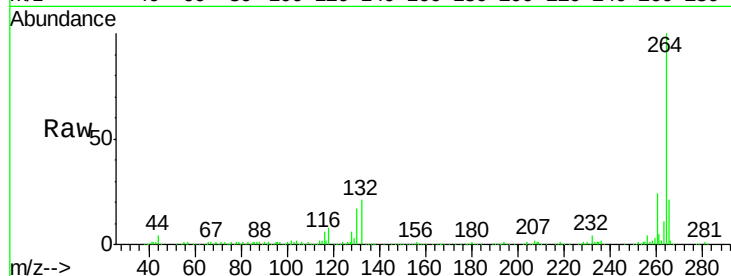


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

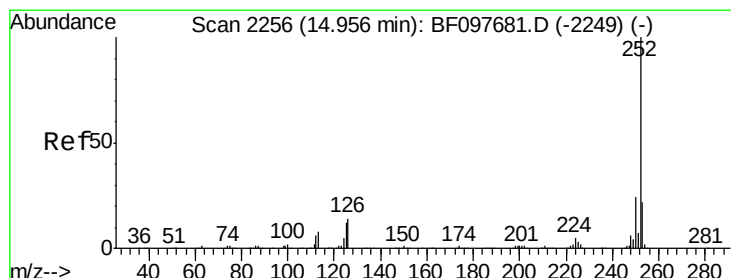
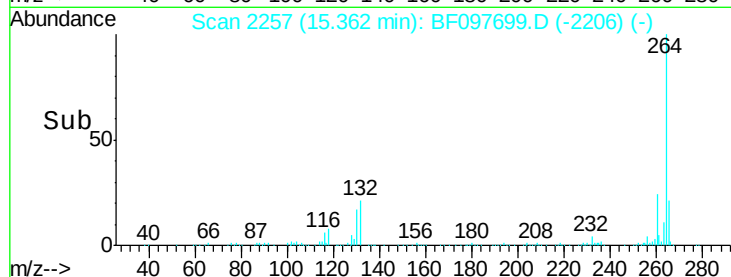
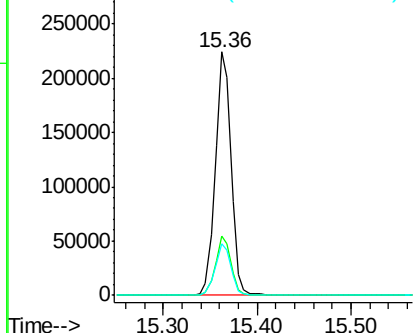
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

Tot Ion:264 Resp: 266098

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	21.3	17.2	25.8



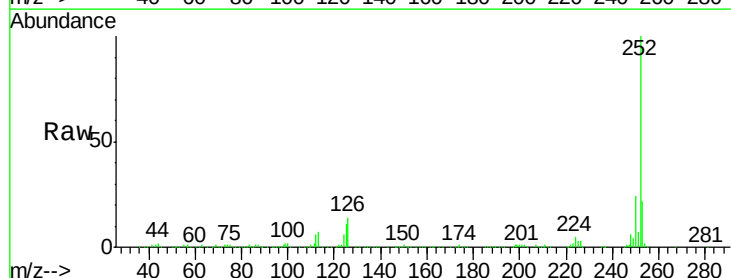
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



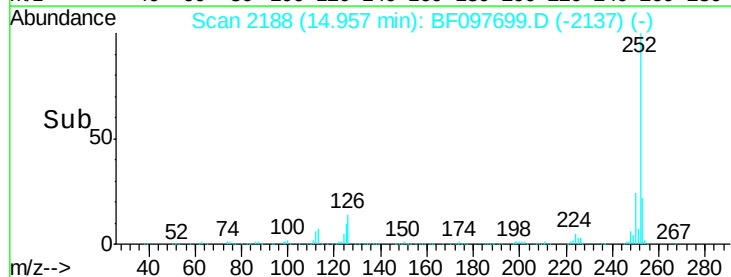
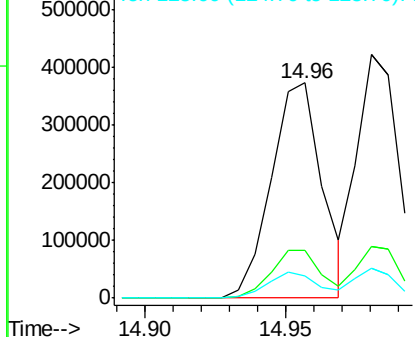
#87
Benzo(b)fluoranthene
Concen: 27.90 ng
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

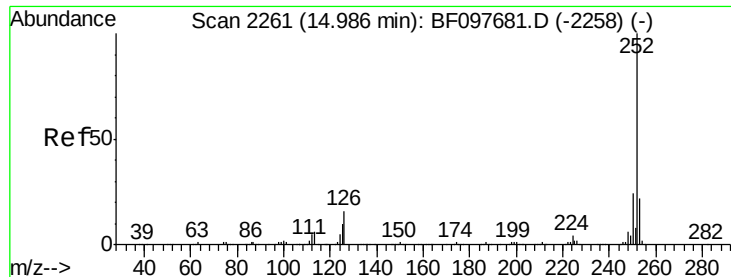
Tgt Ion:252 Resp: 468042

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.1	27.1
125	10.5	9.8	14.8



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

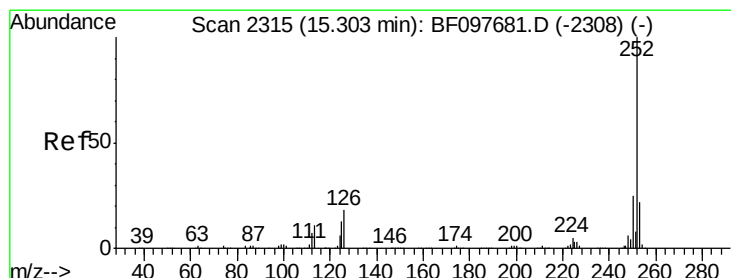
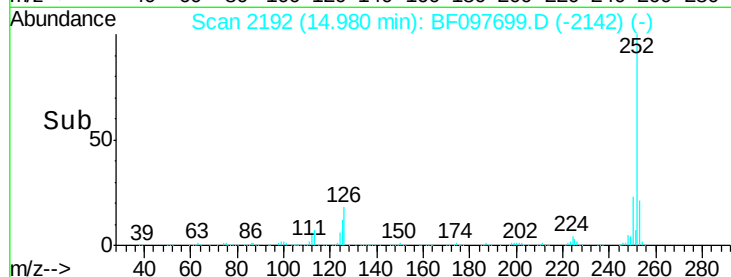
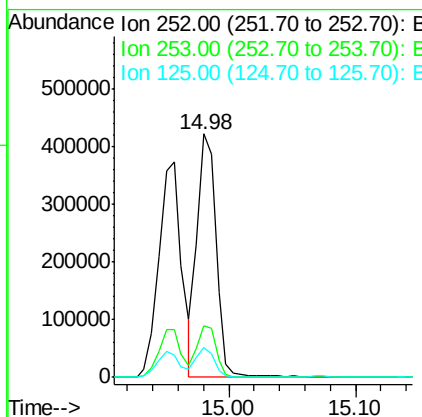
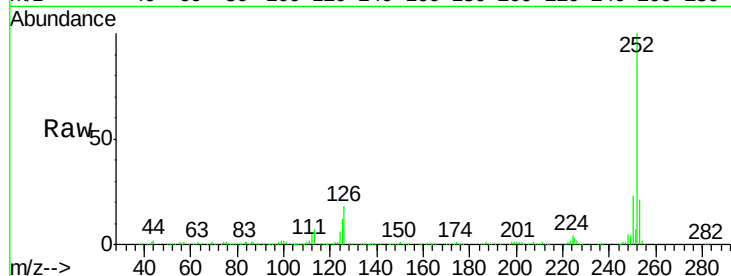




#88
Benzo(k)fluoranthene
Concen: 27.70 ng
RT: 14.98 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

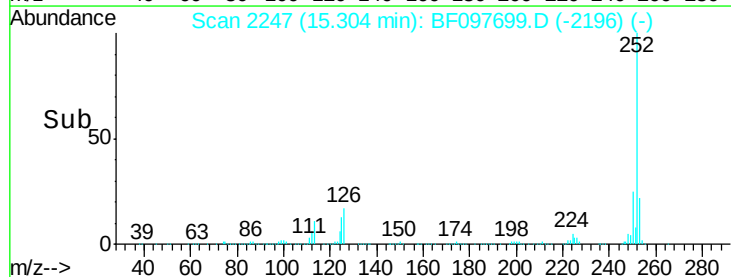
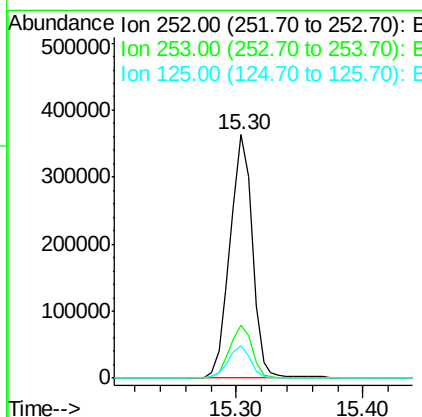
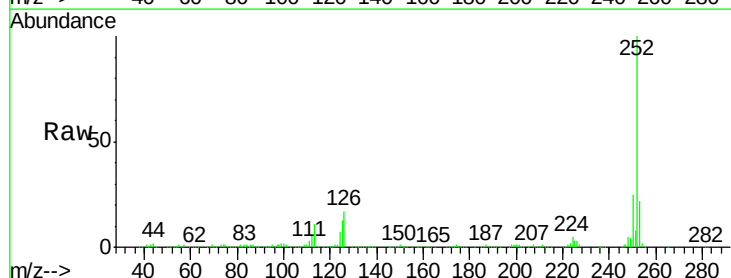
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-MATERIAL-COMPMSD

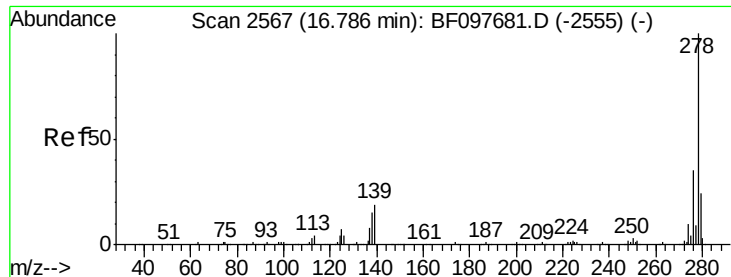
Tot Ion:252 Resp: 436504
Ion Ratio Lower Upper
252 100
253 21.3 18.4 27.6
125 12.2 13.1 19.7#



#89
Benzo(a)pyrene
Concen: 29.97 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097699.D
Acq: 15 Aug 2017 19:03

Tgt Ion:252 Resp: 445042
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 13.2 11.0 16.4

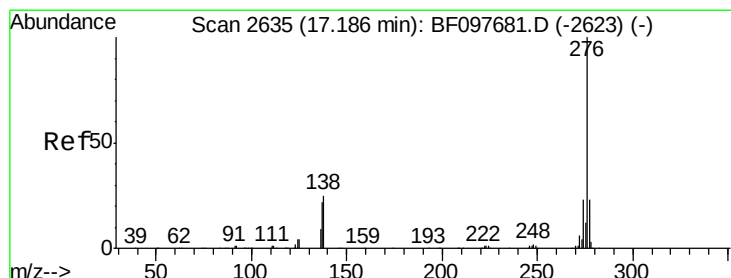
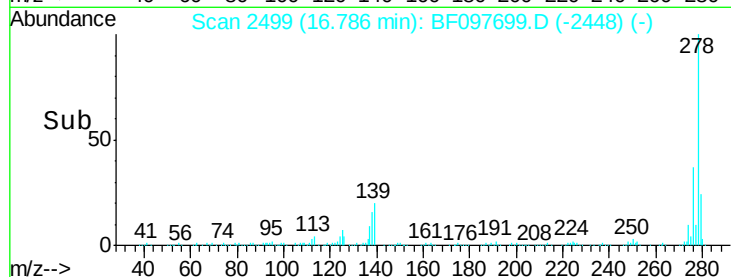
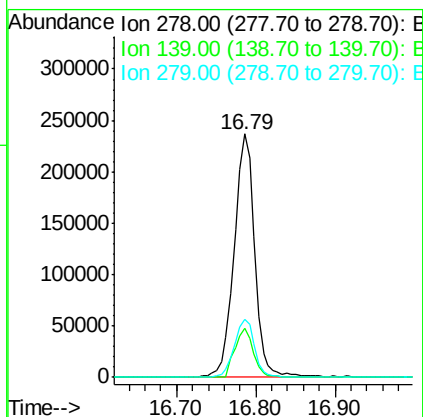
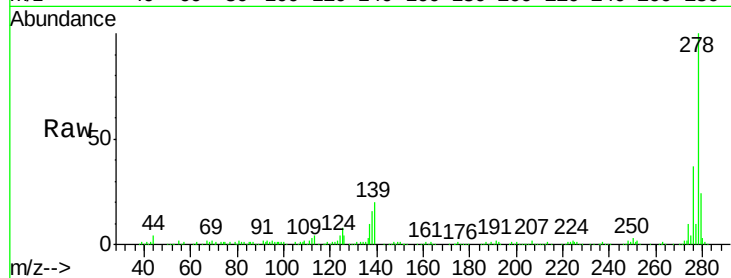




#90
 Dibenzo(a,h)anthracene
 Concen: 35.36 ng
 RT: 16.79 min Scan# 2499
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-MATERIAL-COMPMSD

Tot Ion:278 Resp: 427432
 Ion Ratio Lower Upper
 278 100
 139 19.9 16.6 24.8
 279 23.6 19.3 28.9



#91
 Benzo(g,h,i)perylene
 Concen: 35.33 ng
 RT: 17.19 min Scan# 2567
 Delta R.T. 0.00 min
 Lab File: BF097699.D
 Acq: 15 Aug 2017 19:03

Tgt Ion:276 Resp: 445662
 Ion Ratio Lower Upper
 276 100
 277 24.5 18.6 28.0
 138 26.2 25.4 38.0

