

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113015\
 Data File : BF083371.D
 Acq On : 1 Dec 2015 9:50
 Operator : UM/IZ
 Sample : G4221-15
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

Quant Time: Dec 01 14:18:01 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	146050	20.00	ng	0.01
21) Naphthalene-d8	7.85	136	565208	20.00	ng	0.01
38) Acenaphthene-d10	9.58	164	295979	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	565134	20.00	ng	0.00
75) Chrysene-d12	14.76	240	459212	20.00	ng	0.00
86) Perylene-d12	16.82	264	340692	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	1367577	140.51	ng	0.01
7) Phenol-d6	6.22	99	1809637	135.84	ng	0.00
23) Nitrobenzene-d5	7.13	82	1180662	91.83	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	401025	134.97	ng	-0.01
44) 2-Fluorobiphenyl	8.92	172	1839897	88.59	ng	0.00
78) Terphenyl-d14	13.22	244	1922199	99.83	ng	0.00

Target Compounds						Qvalue
8) 2-Chlorophenol	6.34	128	553460	51.55	ng	97
10) Phenol	6.24	94	1068557	66.66	ng	97
12) 1,3-Dichlorobenzene	6.49	146	1575397	132.01	ng	96
13) 1,4-Dichlorobenzene	6.57	146	687917	55.77	ng	99
17) 2-Methylphenol	6.84	107	108556	12.13	ng	# 87
18) Hexachloroethane	7.06	117	448515	104.69	ng	98
24) Nitrobenzene	7.15	77	1889432	137.61	ng	93
25) Isophorone	7.39	82	3843458	154.32	ng	98
29) 2,4-Dichlorophenol	7.72	162	689107	76.26	ng	86
30) 1,2,4-Trichlorobenzene	7.79	180	1162086	118.15	ng	98
31) Naphthalene	7.87	128	3970308	129.46	ng	97
34) Hexachlorobutadiene	7.98	225	776438	139.03	ng	100
36) 4-Chloro-3-methylphenol	8.42	107	1309846	129.23	ng	88
37) 2-Methylnaphthalene	8.56	142	1925452	93.95	ng	97
42) 2,4,6-Trichlorophenol	8.84	196	482340	73.29	ng	98
43) 2,4,5-Trichlorophenol	8.88	196	633173	92.86	ng	# 90
48) Acenaphthylene	9.45	152	2569132	81.43	ng	98
49) Dimethylphthalate	9.34	163	3777407	157.04	ng	# 98
51) Acenaphthene	9.62	154	1011863	54.53	ng	98
54) Dibenzofuran	9.80	168	3778467	138.95	ng	96
55) 4-Nitrophenol	9.76	139	473206	125.65	ng	# 84
57) Fluorene	10.14	166	2750131	128.07	ng	100
59) Diethylphthalate	10.04	149	3087513	134.67	ng	95
66) 4-Bromophenyl-phenylether	10.64	248	529561	85.66	ng	92
70) Phenanthrene	11.16	178	2605649	77.91	ng	96
72) Carbazole	11.41	167	713810	23.60	ng	98
73) Di-n-butylphthalate	11.86	149	1608687	44.87	ng	100
74) Fluoranthene	12.67	202	2726912	78.66	ng	98
80) Benzo(a)anthracene	14.75	228	2558151	90.93	ng	99
82) Chrysene	14.81	228	2263763	83.28	ng	100
83) Bis(2-ethylhexyl)phthalate	14.88	149	2009245	110.10	ng	100
84) Di-n-octyl phthalate	15.85	149	2726877	100.34	ng	99
87) Benzo(b)fluoranthene	16.32	252	1863349	85.24	ng	97
90) Dibenzo(a,h)anthracene	18.24	278	2119542	129.55	ng	98

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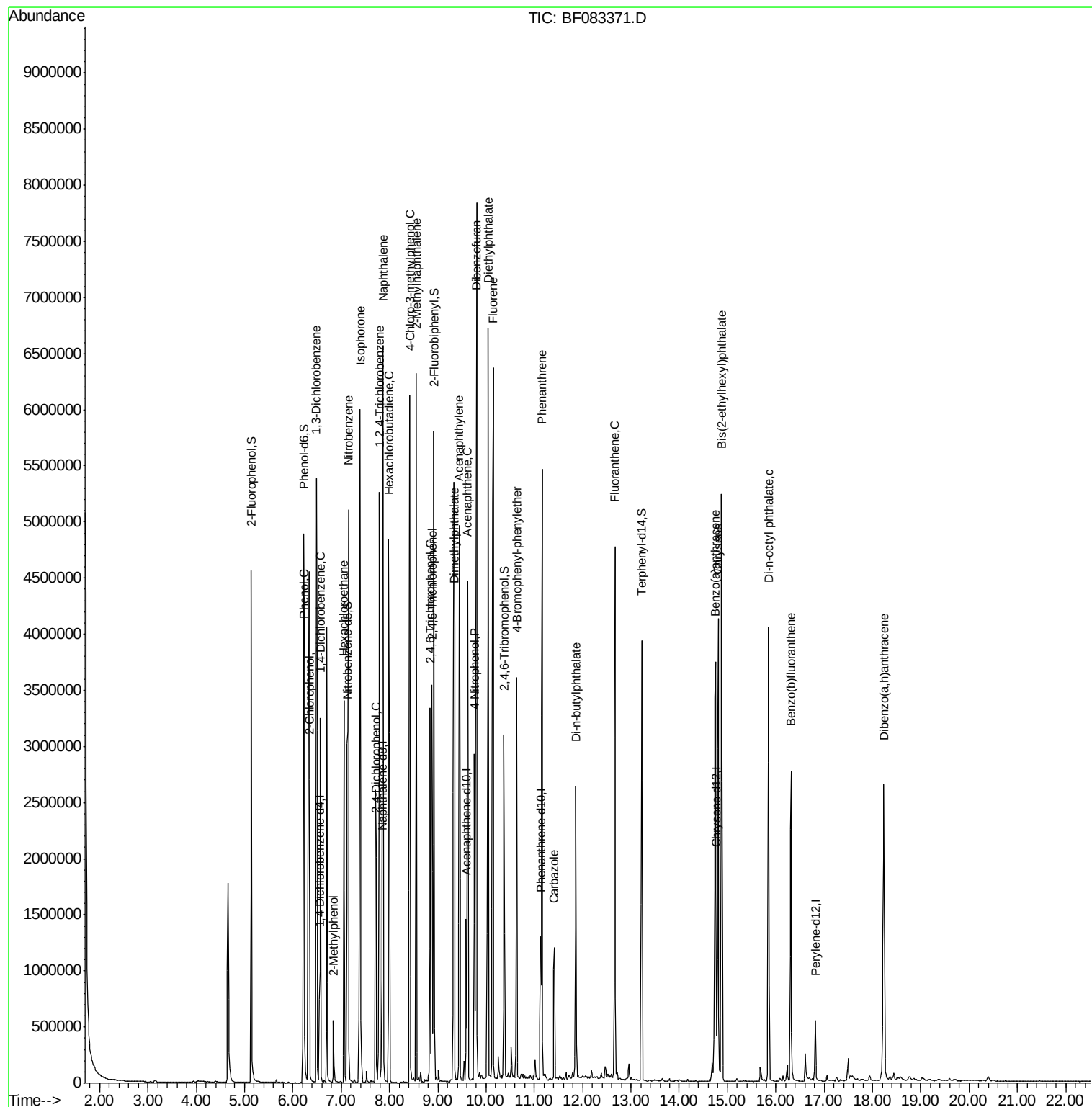
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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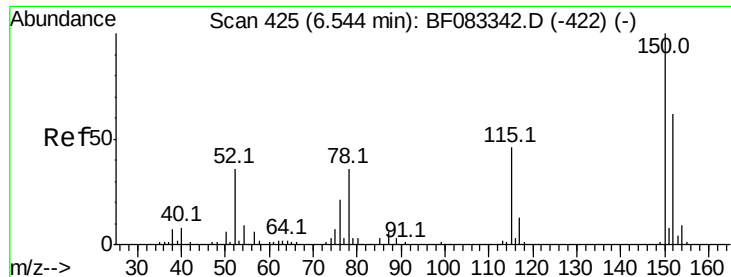
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 01 01:17:16 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 426

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampled :

PT-BNA-SOIL

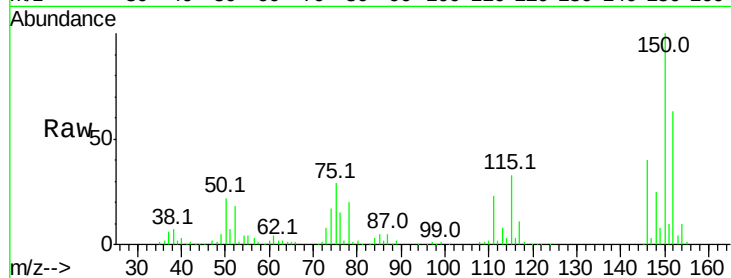
Tot Ion:152 Resp: 146050

Ion Ratio Lower Upper

152 100

150 159.9 129.8 194.8

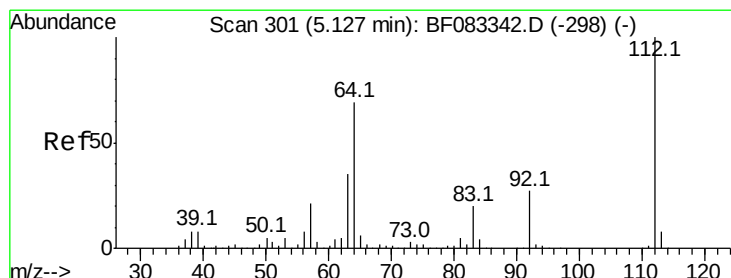
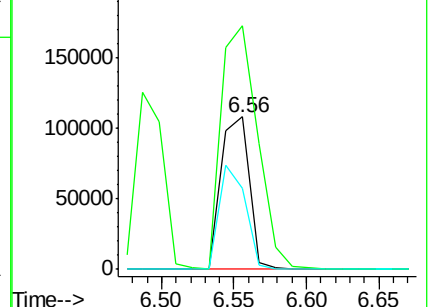
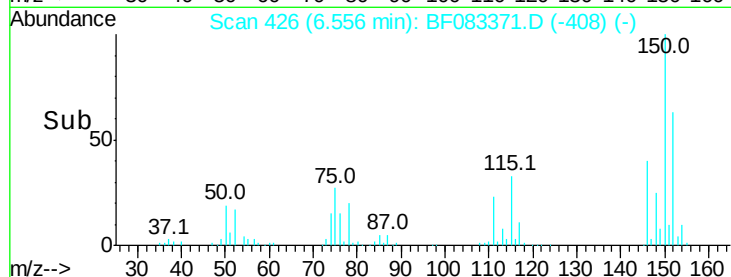
115 53.5 59.2 88.8#



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



#5

2-Fluorophenol

Concen: 140.51 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

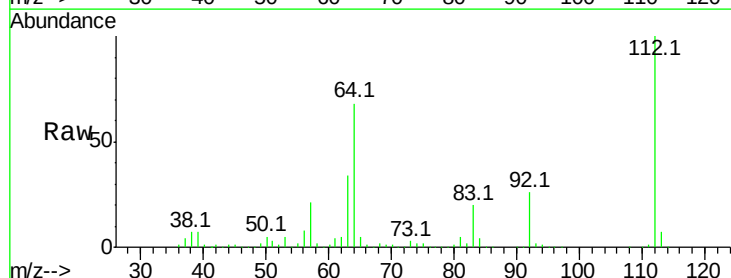
Tgt Ion:112 Resp: 1367577

Ion Ratio Lower Upper

112 100

64 67.8 55.6 83.4

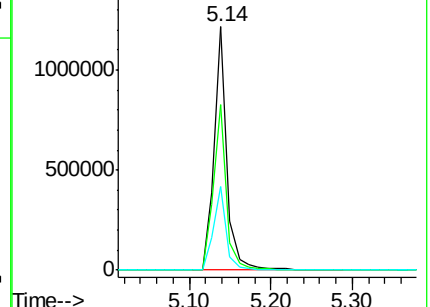
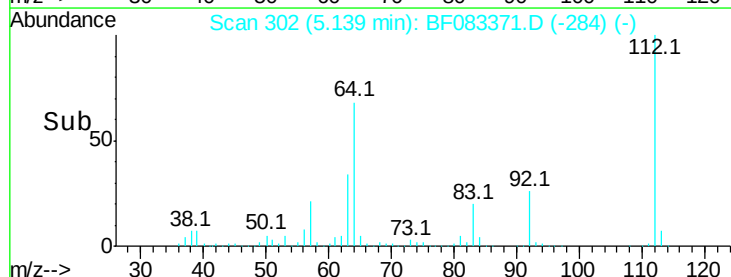
63 34.2 28.2 42.2

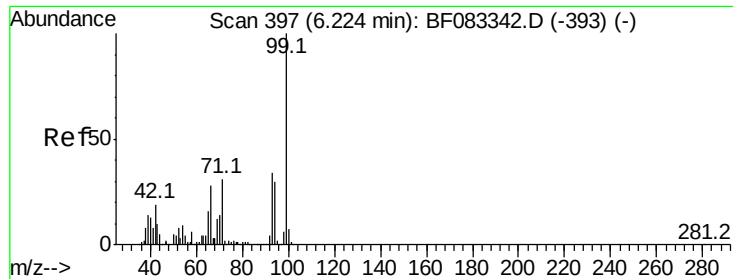


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 135.84 ng

RT: 6.22 min Scan# 397

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

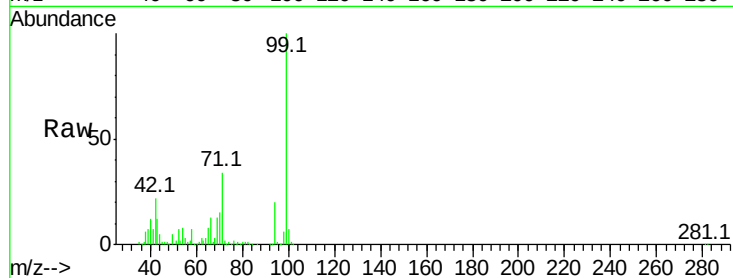
Tot Ion: 99 Resp: 1809637

Ion Ratio Lower Upper

99 100

42 22.0 14.9 22.3

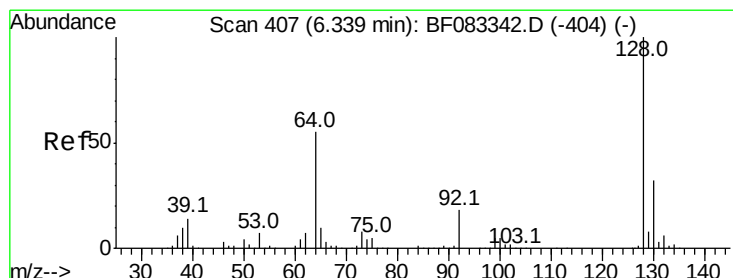
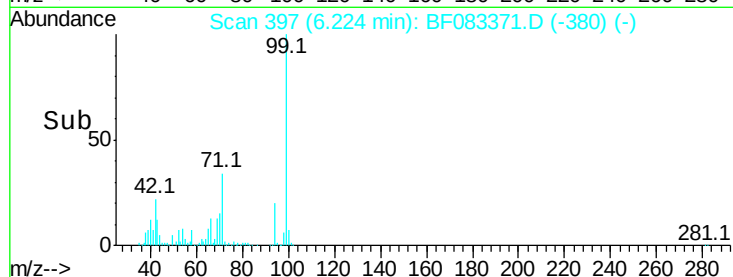
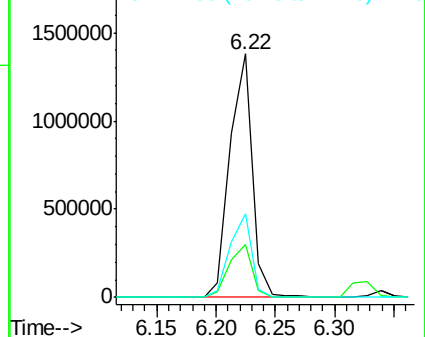
71 34.2 24.7 37.1



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: 51.55 ng

RT: 6.34 min Scan# 407

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

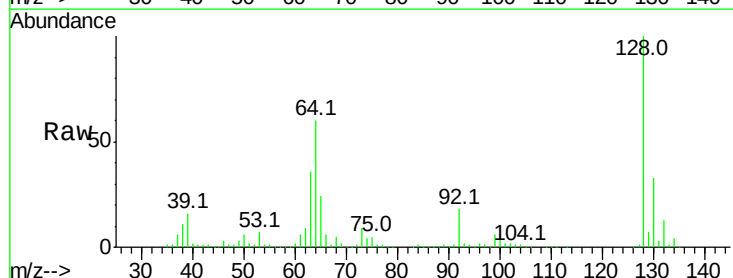
Tgt Ion:128 Resp: 553460

Ion Ratio Lower Upper

128 100

130 32.6 12.3 52.3

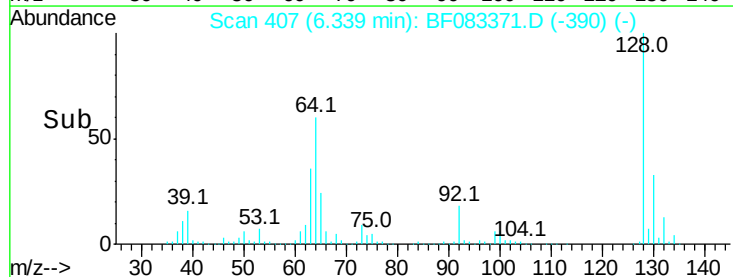
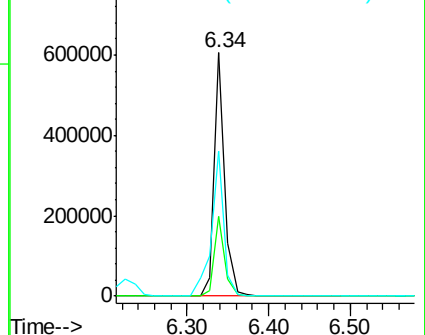
64 59.7 36.4 76.4

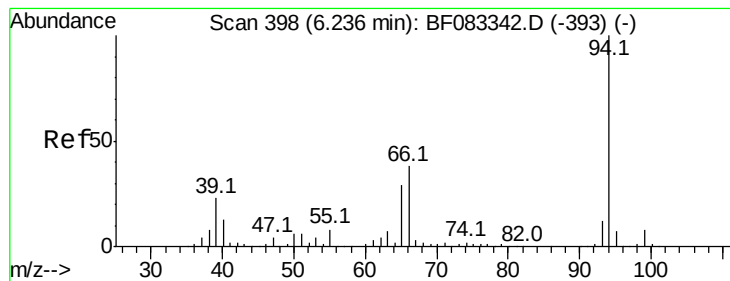


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#10

Phenol

Concen: 66.66 ng

RT: 6.24 min Scan# 398

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

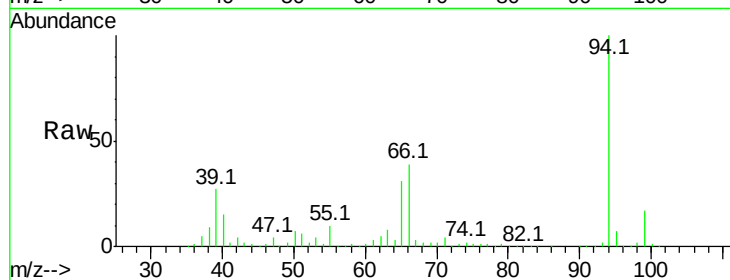
BNA_F

ClientSampleId :

PT-BNA-SOIL

Tot Ion: 94 Resp: 1068557

Ion	Ratio	Lower	Upper
94	100		
65	31.2	9.5	49.5
66	39.2	17.9	57.9

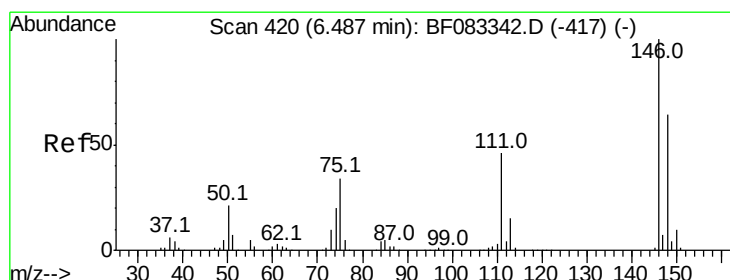
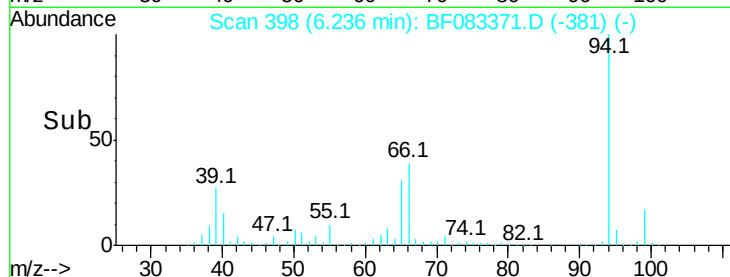
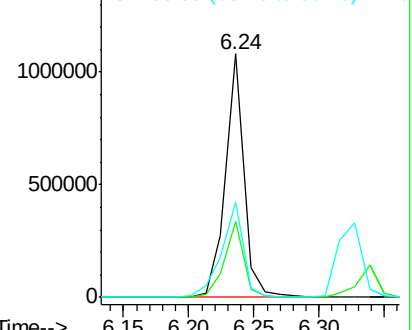


Abundance

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



#12

1,3-Dichlorobenzene

Concen: 132.01 ng

RT: 6.49 min Scan# 420

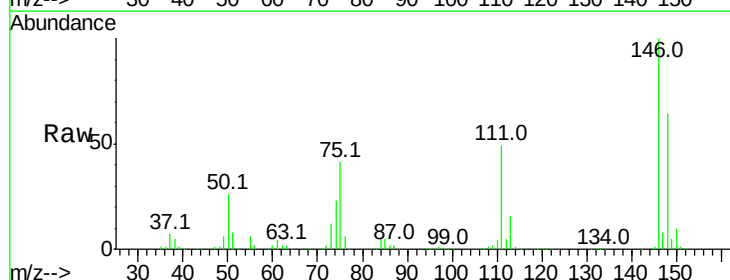
Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Tgt Ion: 146 Resp: 1575397

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.1	76.7
75	40.5	27.5	41.3

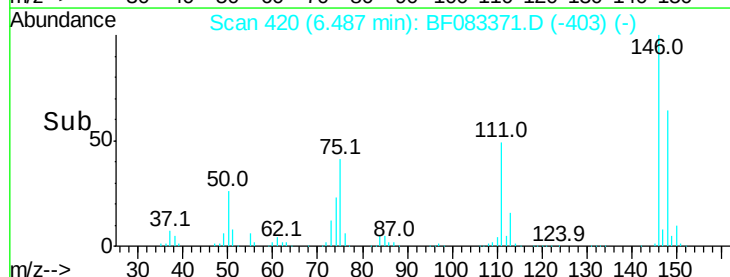
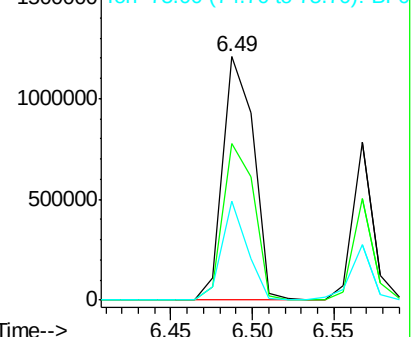


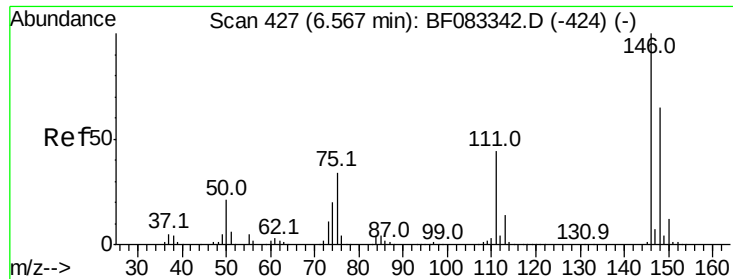
Abundance

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

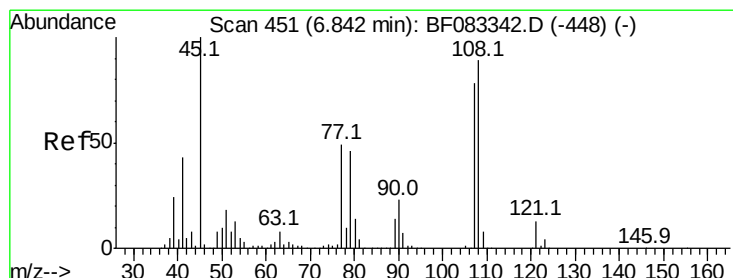
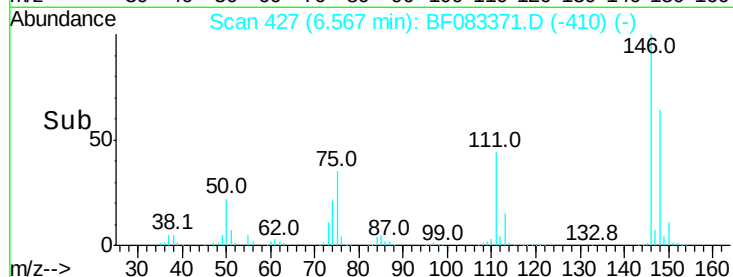
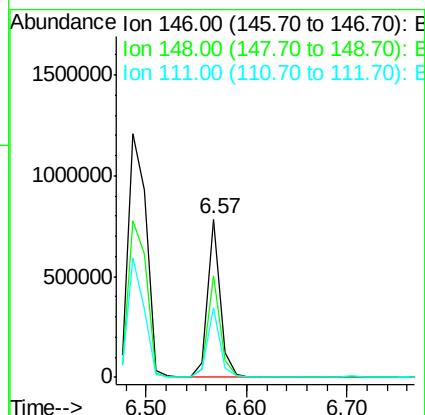
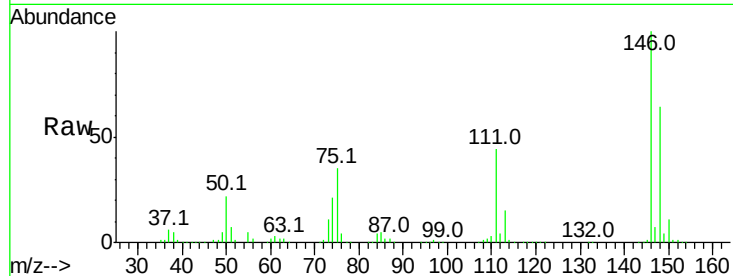




#13
 1,4-Dichlorobenzene
 Concen: 55.77 ng
 RT: 6.57 min Scan# 427
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

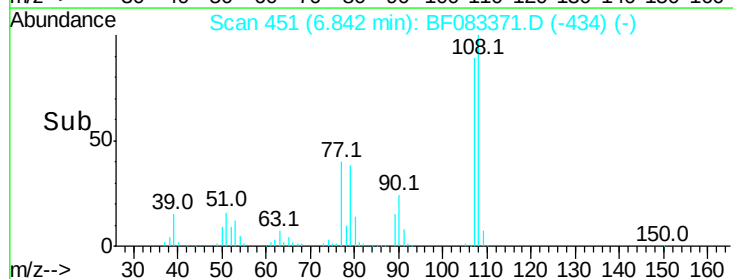
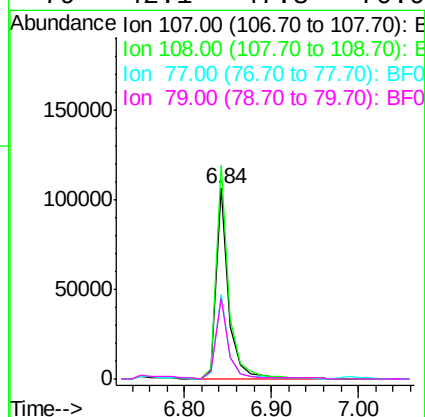
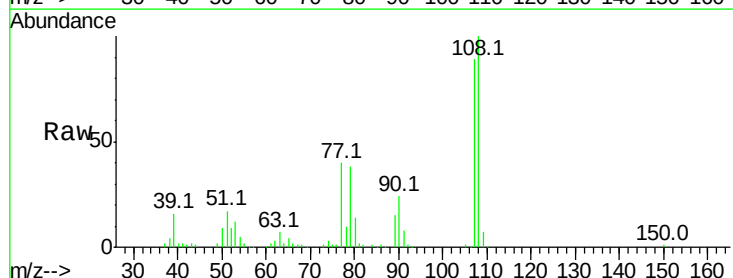
Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

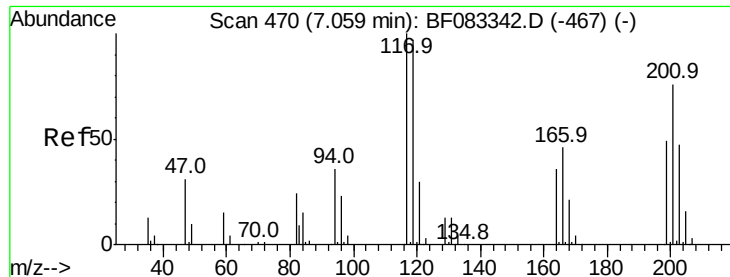
Tot Ion:146 Resp: 687917
 Ion Ratio Lower Upper
 146 100
 148 64.4 52.1 78.1
 111 44.2 35.4 53.0



#17
 2-Methylphenol
 Concen: 12.13 ng
 RT: 6.84 min Scan# 451
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:107 Resp: 108556
 Ion Ratio Lower Upper
 107 100
 108 112.1 91.6 137.4
 77 44.7 49.9 74.9#
 79 42.1 47.3 70.9#





#18

Hexachloroethane

Concen: 104.69 ng

RT: 7.06 min Scan# 470

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

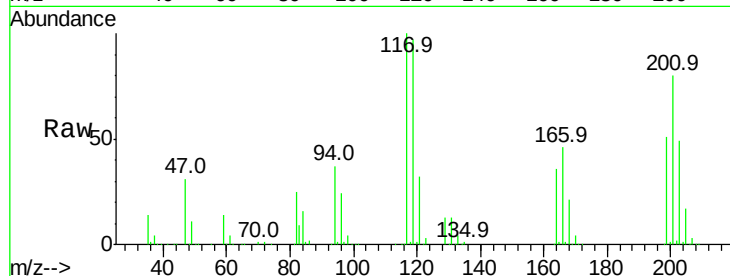
Tot Ion:117 Resp: 448515

Ion Ratio Lower Upper

117 100

119 96.8 77.3 115.9

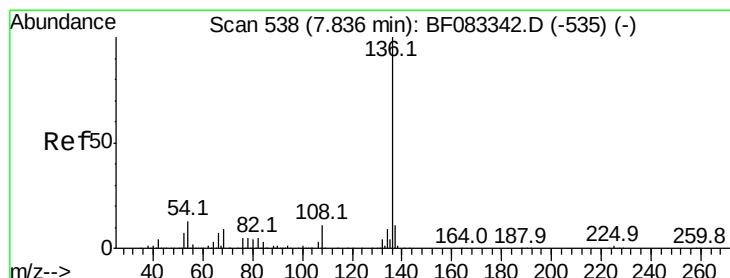
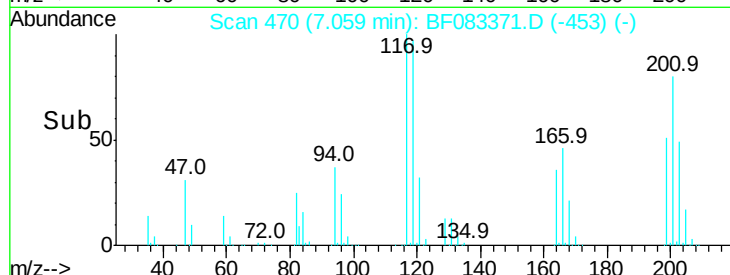
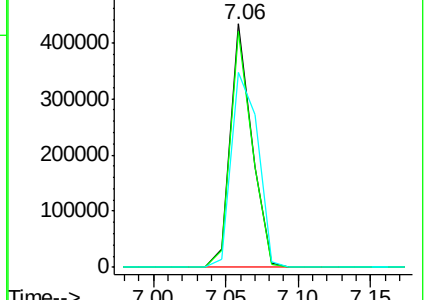
201 79.9 60.6 90.8



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.85 min Scan# 539

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Tgt Ion:136 Resp: 565208

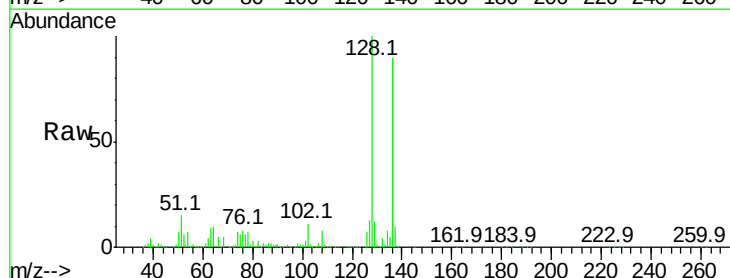
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.5 10.1 15.1#

68 5.8 7.1 10.7#

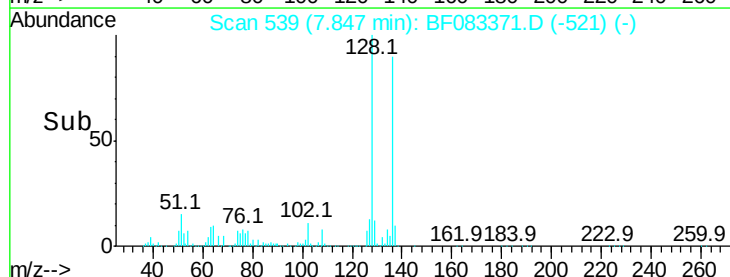
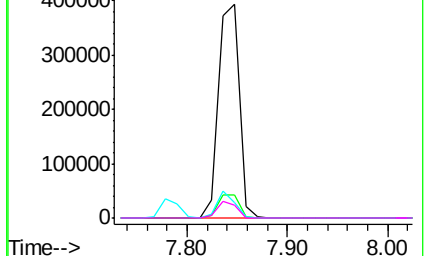


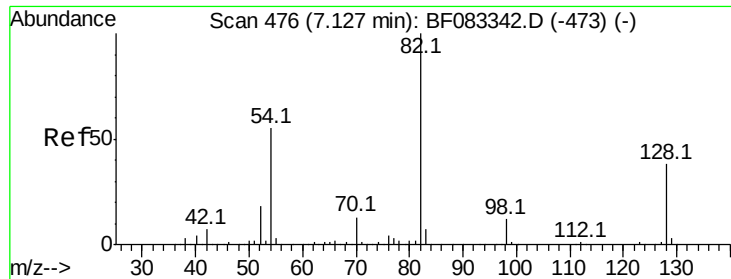
Abundance Ion 136.00 (135.70 to 136.70): E

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

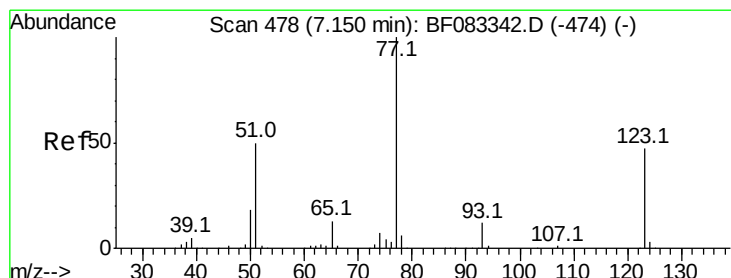
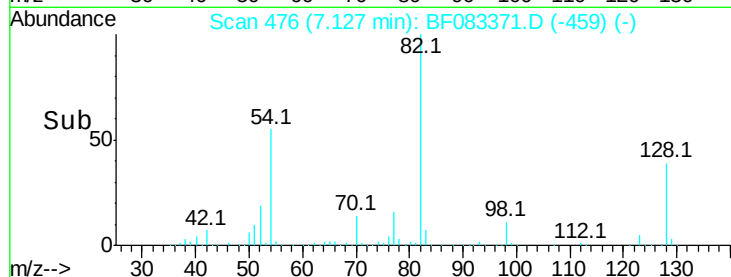
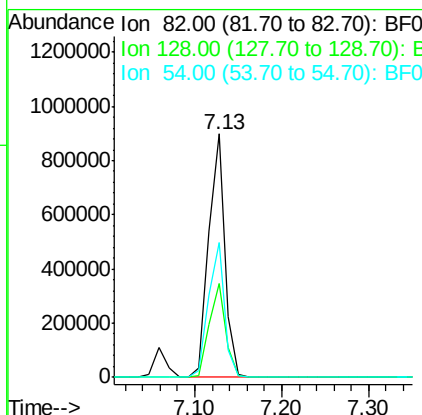
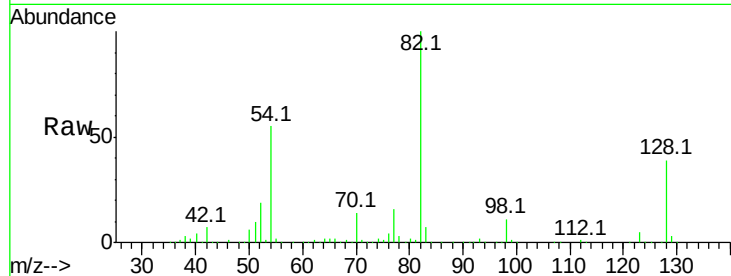




#23
 Nitrobenzene-d5
 Concen: 91.83 ng
 RT: 7.13 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

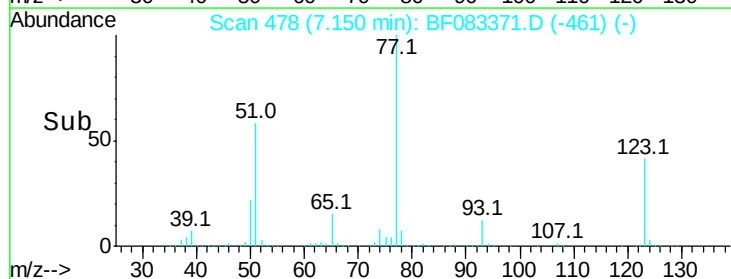
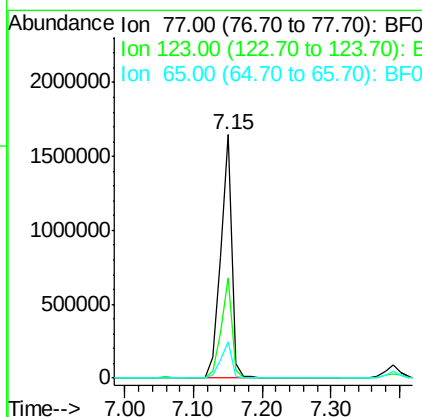
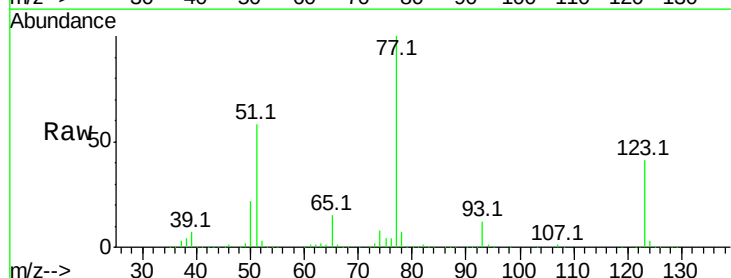
Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

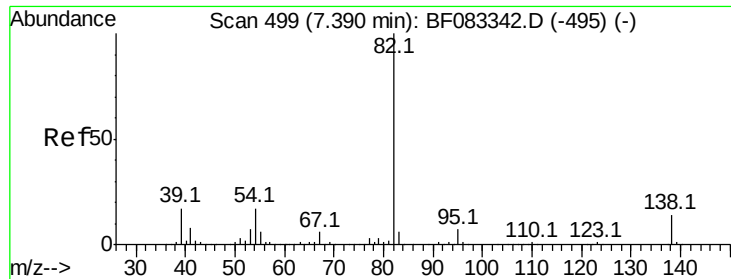
Tot Ion: 82 Resp: 1180662
 Ion Ratio Lower Upper
 82 100
 128 38.5 30.6 46.0
 54 55.3 43.8 65.6



#24
 Nitrobenzene
 Concen: 137.61 ng
 RT: 7.15 min Scan# 478
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion: 77 Resp: 1889432
 Ion Ratio Lower Upper
 77 100
 123 41.4 37.4 56.0
 65 15.1 10.6 15.8





#25

Isophorone

Concen: 154.32 ng

RT: 7.39 min Scan# 499

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

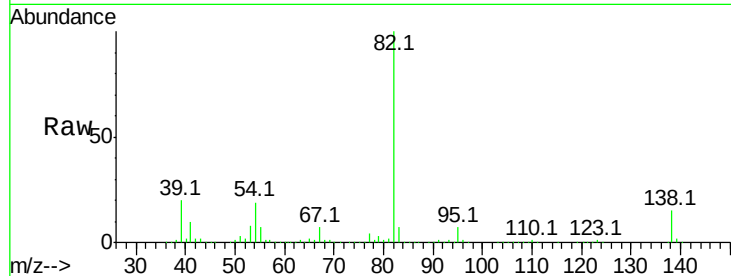
Tot Ion: 82 Resp: 3843458

Ion Ratio Lower Upper

82 100

95 7.2 5.3 7.9

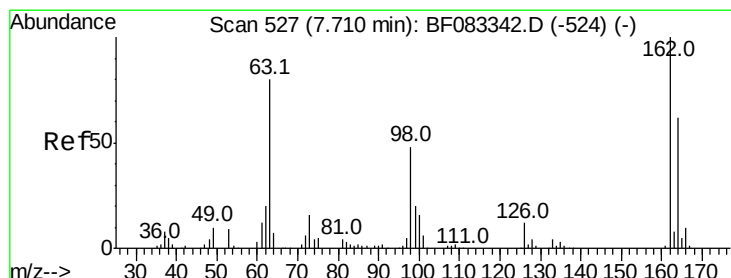
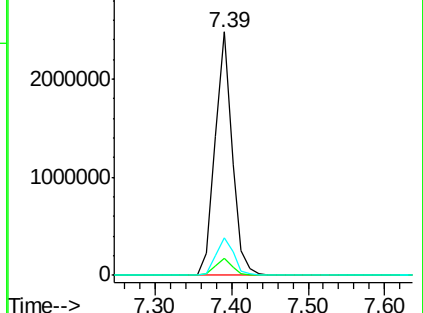
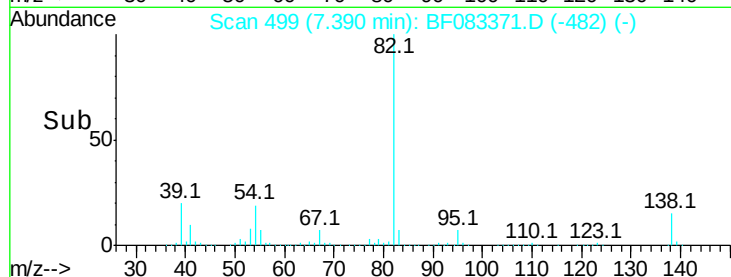
138 15.4 11.6 17.4



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



#29

2,4-Dichlorophenol

Concen: 76.26 ng

RT: 7.72 min Scan# 528

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

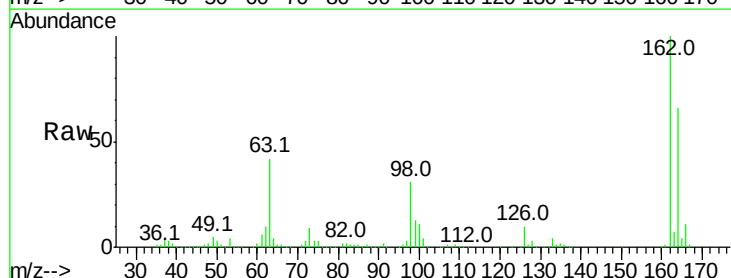
Tgt Ion:162 Resp: 689107

Ion Ratio Lower Upper

162 100

164 66.1 41.9 81.9

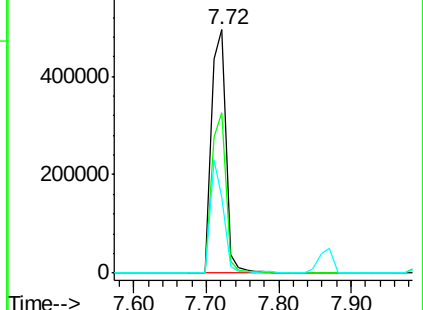
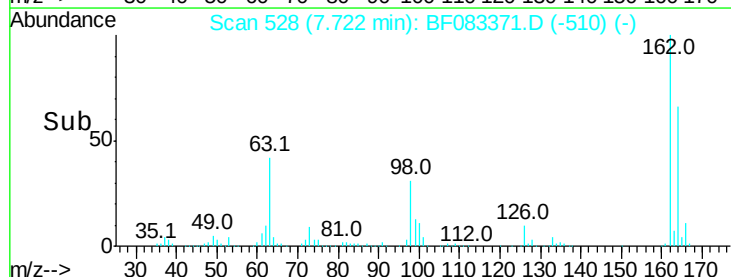
98 31.1 28.1 68.1

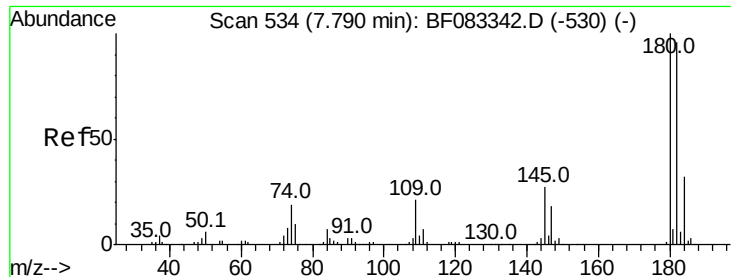


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF0

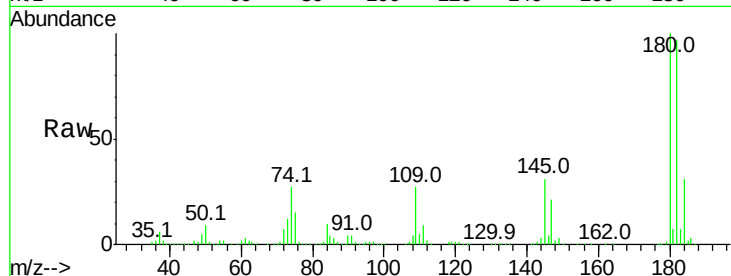




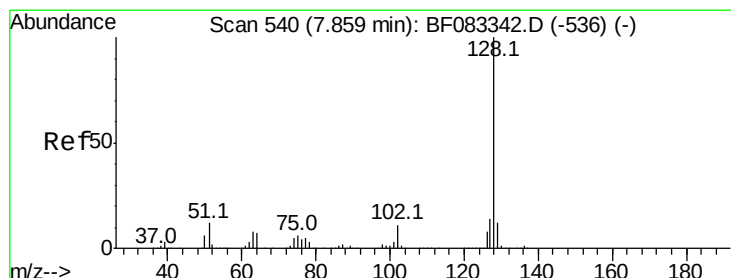
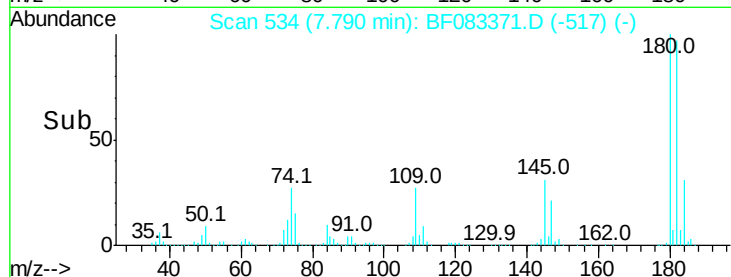
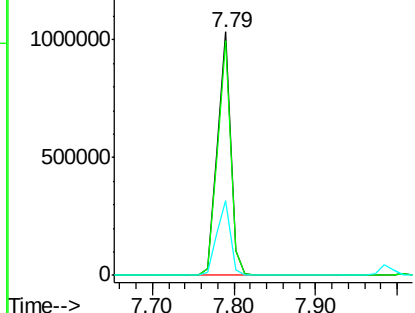
#30
 1,2,4-Trichlorobenzene
 Concen: 118.15 ng
 RT: 7.79 min Scan# 534
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

Tot Ion:180 Resp: 1162086
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.2 115.8
 145 30.9 21.4 32.2

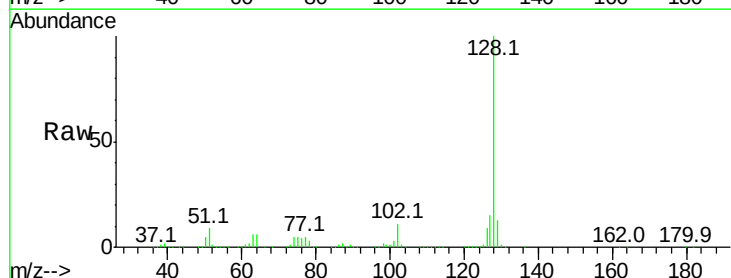


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

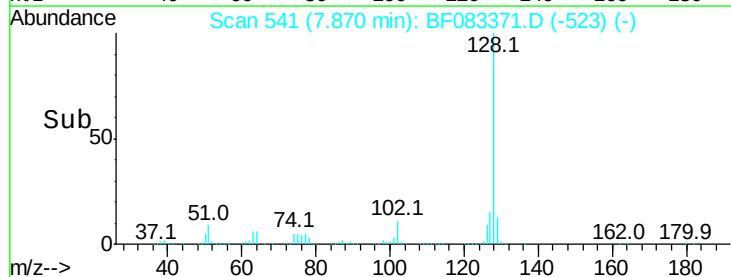
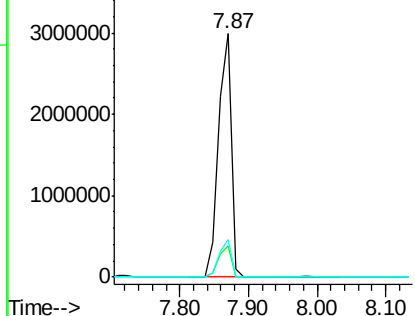


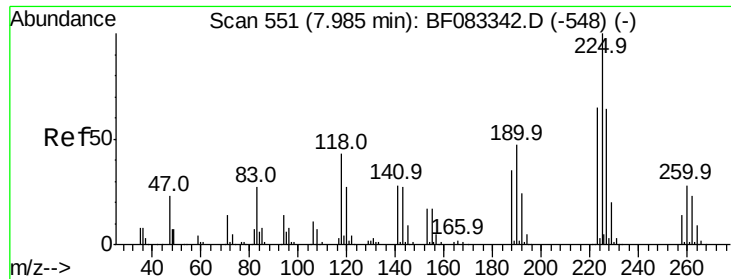
#31
 Naphthalene
 Concen: 129.46 ng
 RT: 7.87 min Scan# 541
 Delta R.T. 0.01 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:128 Resp: 3970308
 Ion Ratio Lower Upper
 128 100
 129 13.0 9.7 14.5
 127 15.3 11.0 16.4



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

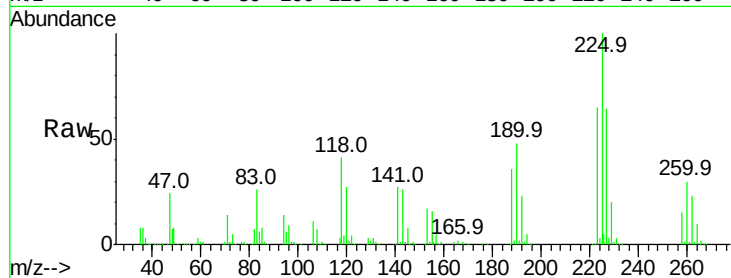




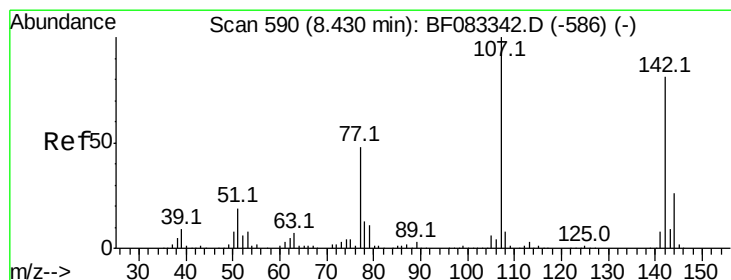
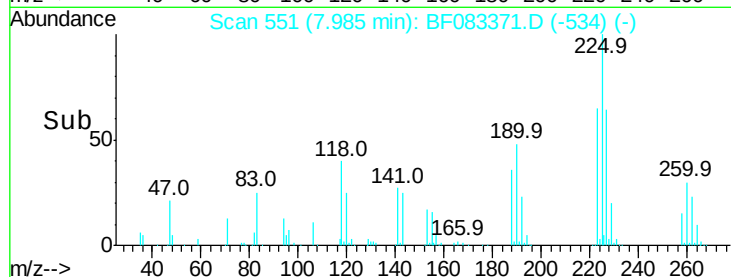
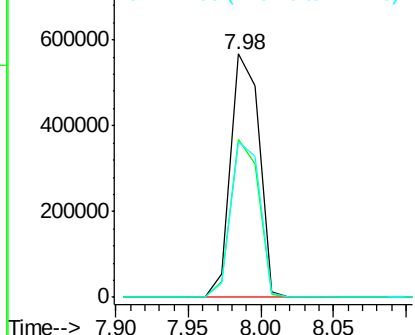
#34
Hexachlorobutadiene
Concen: 139.03 ng
RT: 7.98 min Scan# 551
Delta R.T. 0.00 min
Lab File: BF083371.D
Acq: 1 Dec 2015 9:50

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tot Ion:225 Resp: 776438
Ion Ratio Lower Upper
225 100
223 64.8 52.0 78.0
227 63.9 51.1 76.7

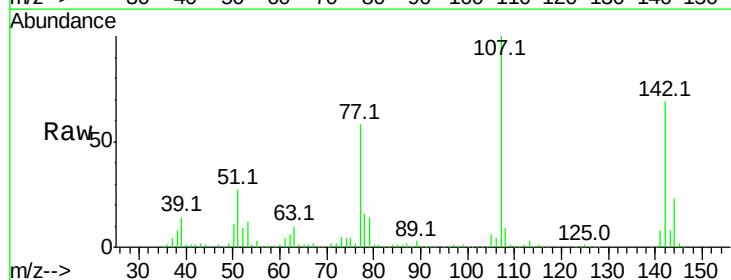


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

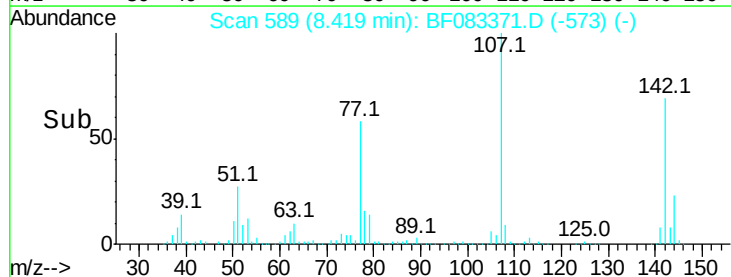
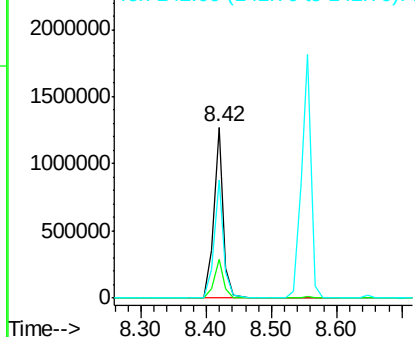


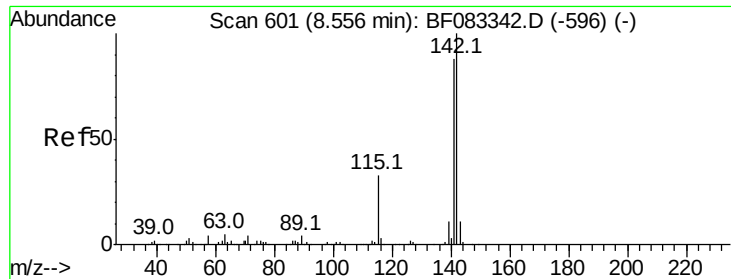
#36
4-Chloro-3-methylphenol
Concen: 129.23 ng
RT: 8.42 min Scan# 589
Delta R.T. -0.01 min
Lab File: BF083371.D
Acq: 1 Dec 2015 9:50

Tgt Ion:107 Resp: 1309846
Ion Ratio Lower Upper
107 100
144 22.7 21.1 31.7
142 69.3 65.1 97.7



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 144.00 (143.70 to 144.70): E
Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 93.95 ng

RT: 8.56 min Scan# 601

Delta R.T. 0.00 min

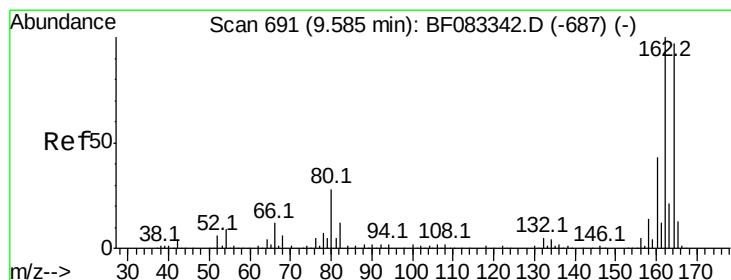
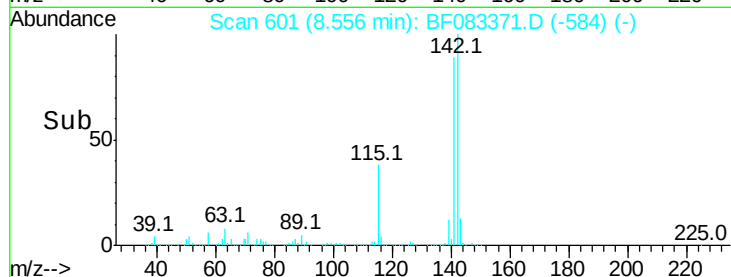
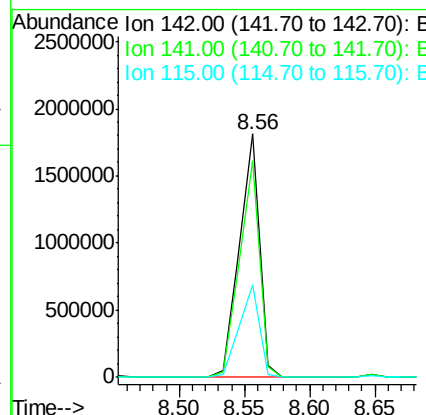
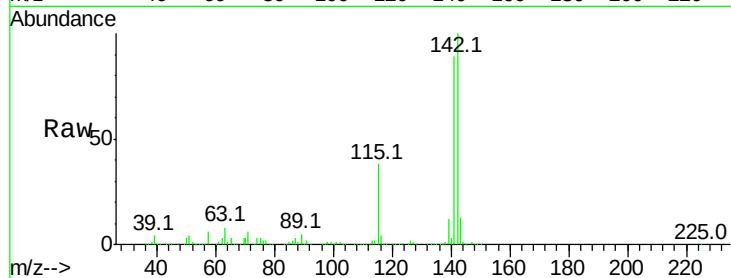
Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

Tot Ion:142 Resp: 1925452

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.6	105.8
115	37.9	26.2	39.2



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.58 min Scan# 691

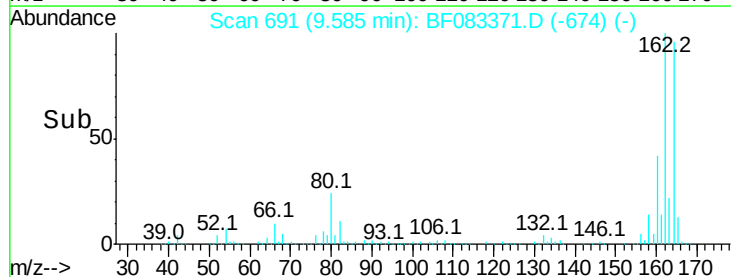
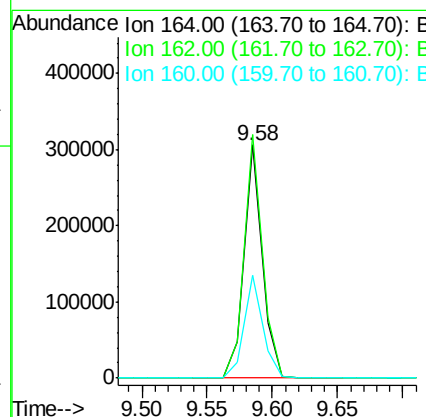
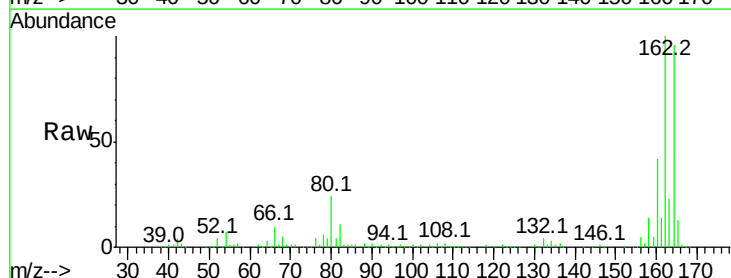
Delta R.T. 0.00 min

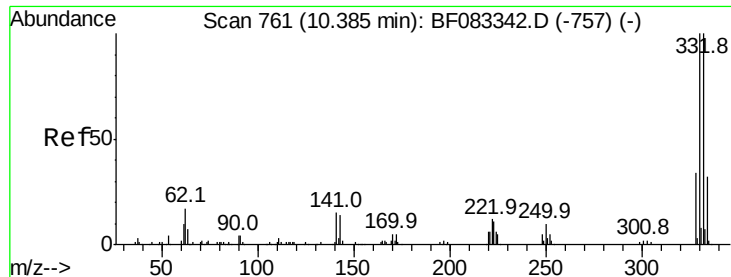
Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Tgt Ion:164 Resp: 295979

Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.6	123.8
160	43.8	35.3	52.9

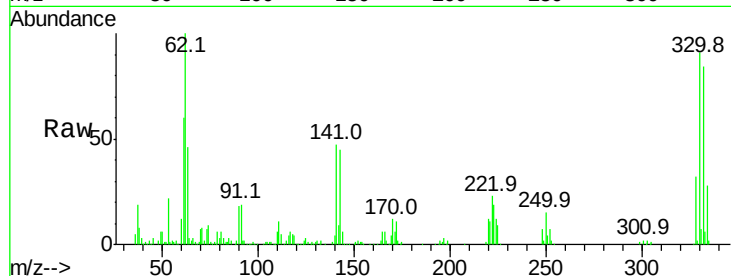




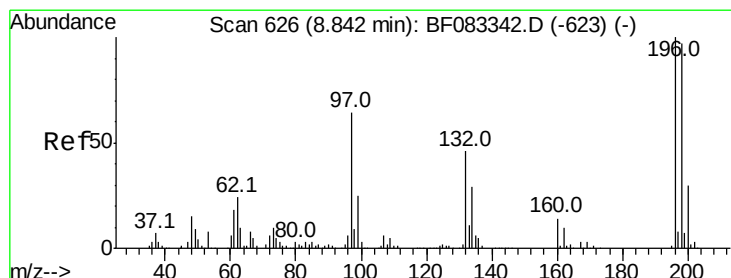
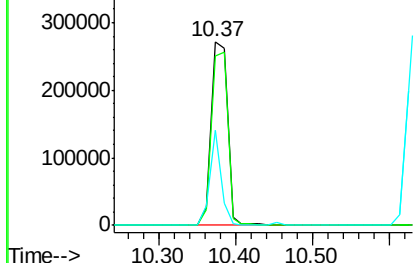
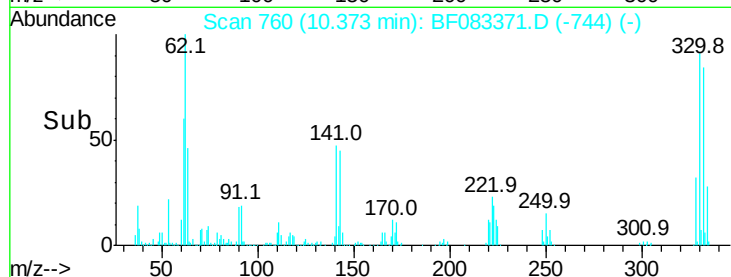
#41
 2,4,6-Tribromophenol
 Concen: 134.97 ng
 RT: 10.37 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.3	77.8	116.6
141	35.6	29.4	44.0

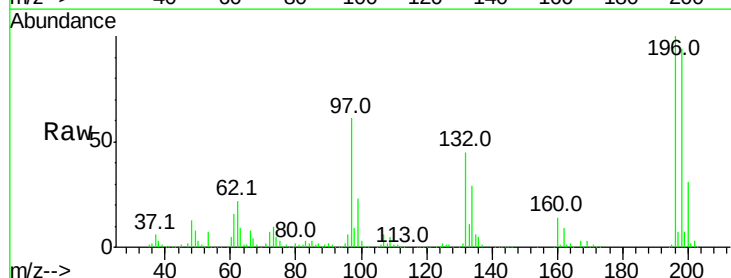


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

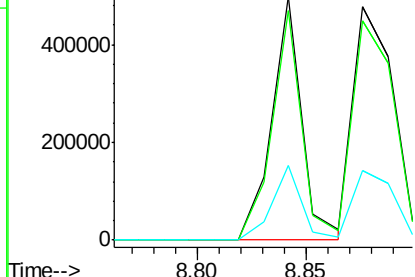
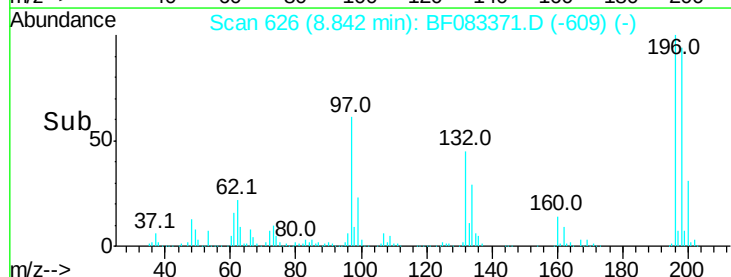


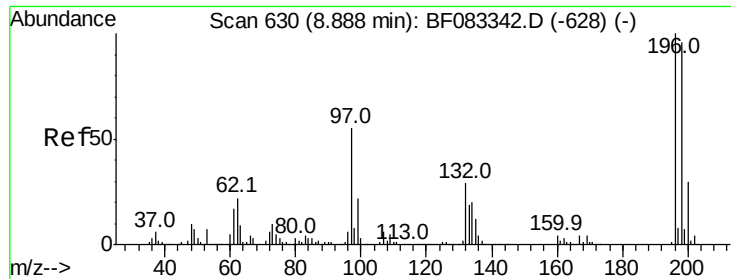
#42
 2,4,6-Trichlorophenol
 Concen: 73.29 ng
 RT: 8.84 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion	Ratio	Lower	Upper
196	100		
198	94.1	77.2	115.8
200	30.6	24.2	36.4



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

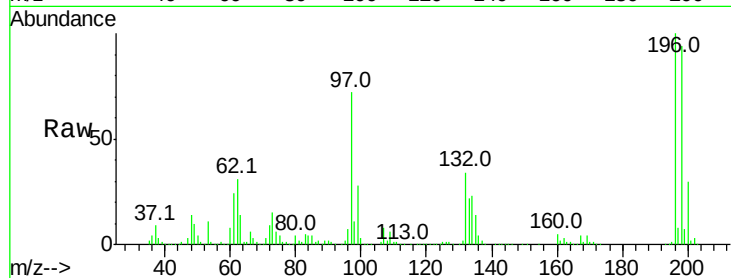




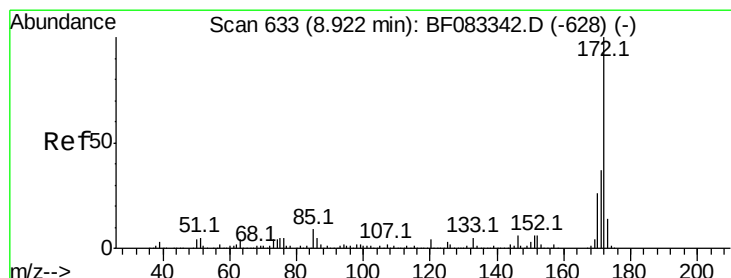
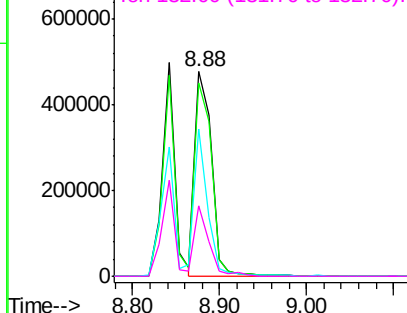
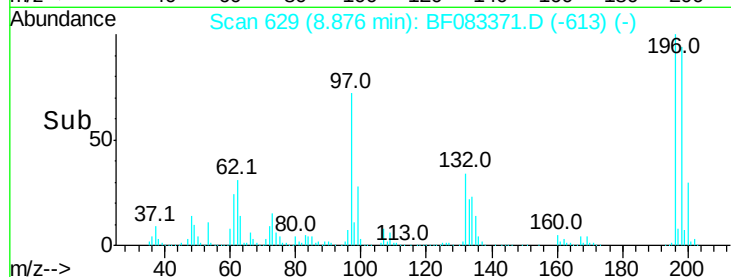
#43
 2,4,5-Trichlorophenol
 Concen: 92.86 ng
 RT: 8.88 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

Tot Ion:196 Resp: 633173
 Ion Ratio Lower Upper
 196 100
 198 94.3 77.2 115.8
 97 72.2 44.4 66.6#
 132 34.3 23.2 34.8

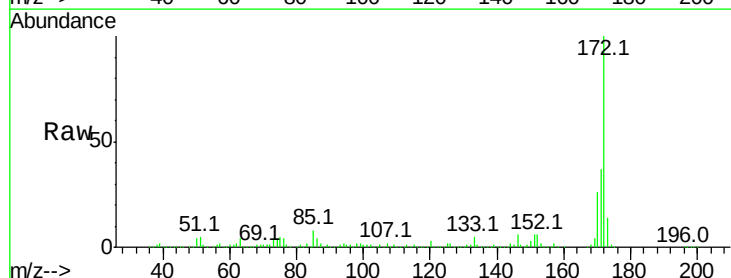


Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 97.00 (96.70 to 97.70): BF0
 Ion 132.00 (131.70 to 132.70): E

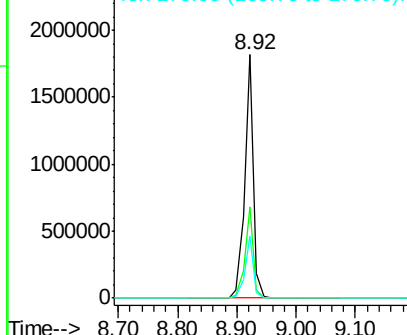
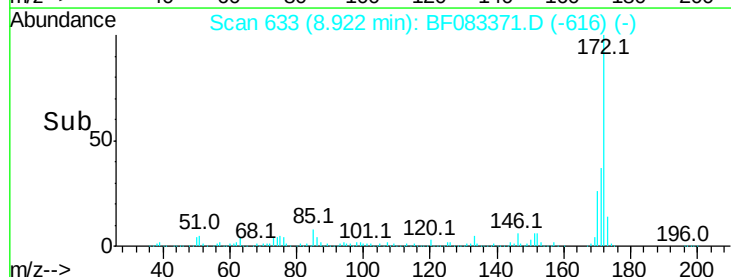


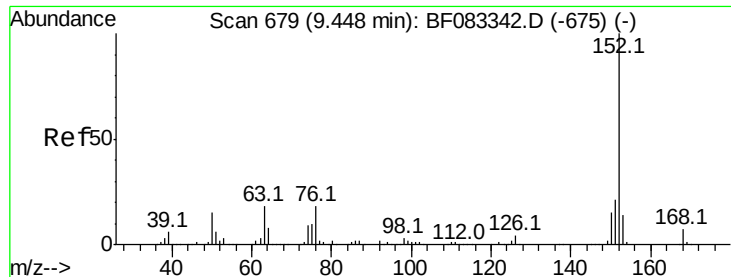
#44
 2-Fluorobiphenyl
 Concen: 88.59 ng
 RT: 8.92 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:172 Resp: 1839897
 Ion Ratio Lower Upper
 172 100
 171 37.4 29.4 44.0
 170 25.5 20.4 30.6



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





#48

Acenaphthylene

Concen: 81.43 ng

RT: 9.45 min Scan# 679

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

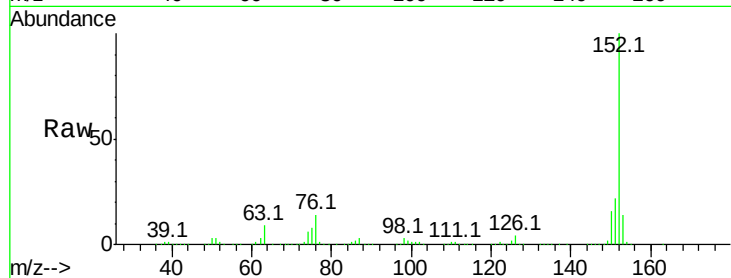
BNA_F

ClientSampleId :

PT-BNA-SOIL

Tot Ion:152 Resp: 2569132

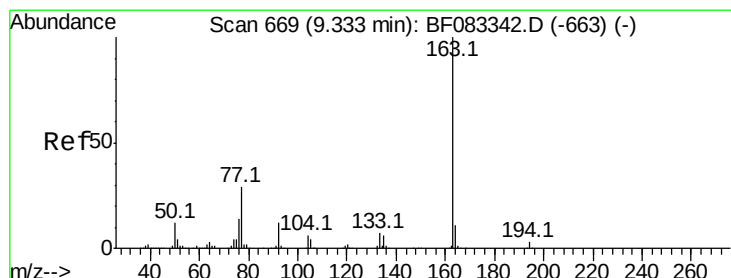
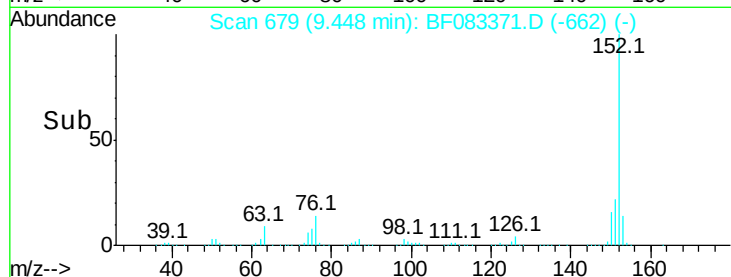
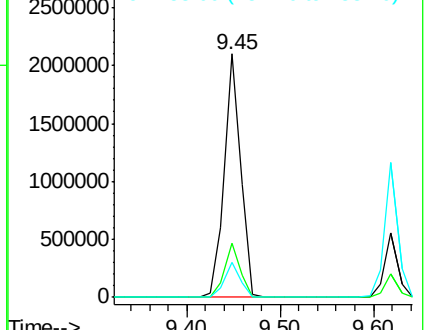
Ion	Ratio	Lower	Upper
152	100		
151	22.1	16.7	25.1
153	14.5	11.2	16.8



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: 157.04 ng

RT: 9.34 min Scan# 670

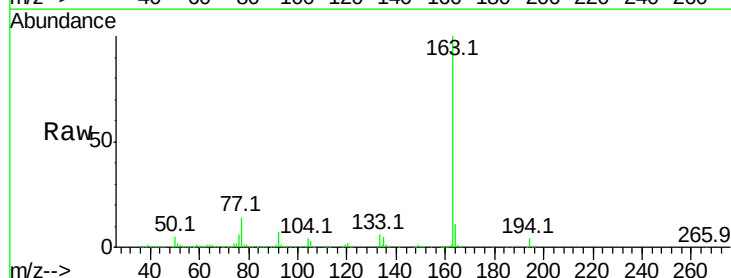
Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Tgt Ion:163 Resp: 3777407

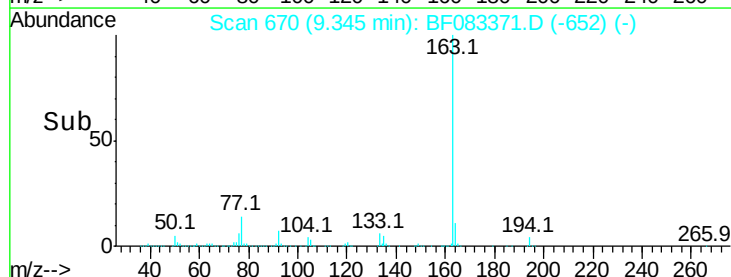
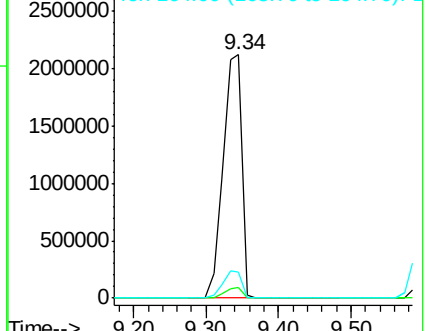
Ion	Ratio	Lower	Upper
163	100		
194	4.3	2.7	4.1#
164	10.6	8.8	13.2

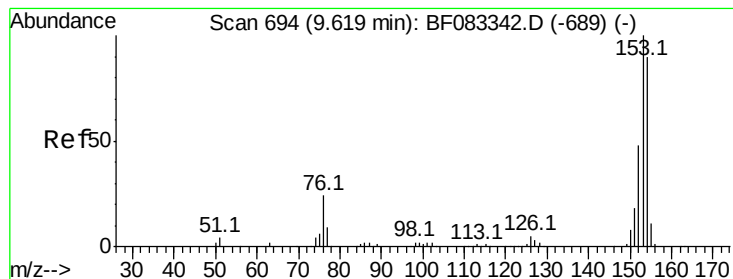


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 54.53 ng

RT: 9.62 min Scan# 694

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

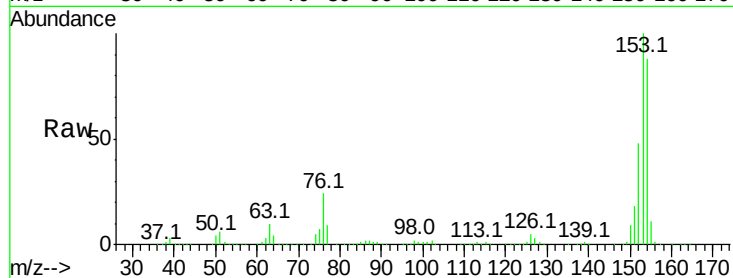
Tot Ion:154 Resp: 1011863

Ion Ratio Lower Upper

154 100

153 114.2 89.3 133.9

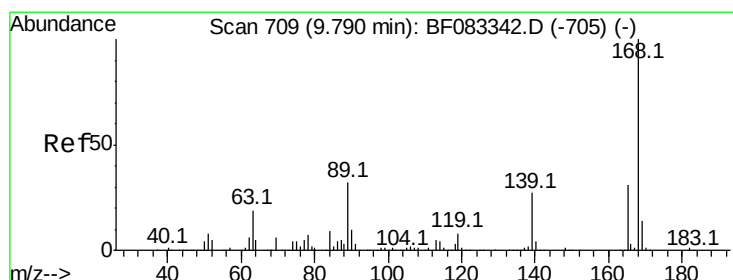
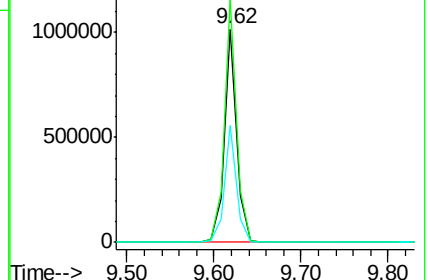
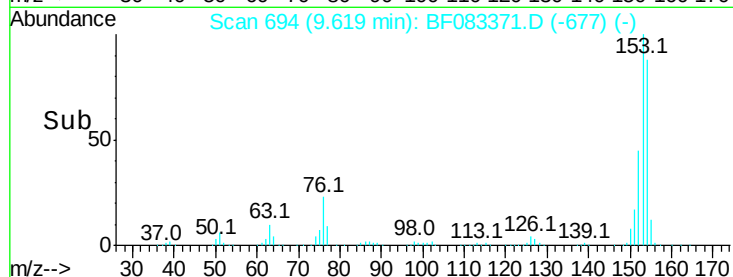
152 54.7 42.5 63.7



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



#54

Dibenzofuran

Concen: 138.95 ng

RT: 9.80 min Scan# 710

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

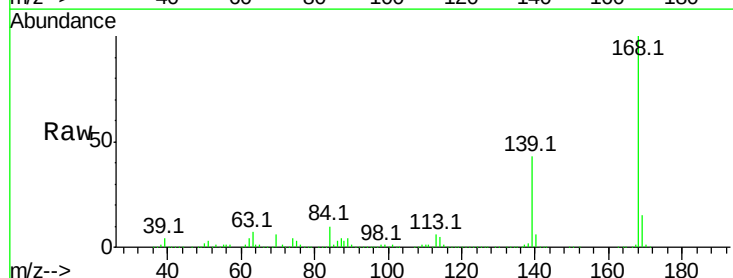
Tgt Ion:168 Resp: 3778467

Ion Ratio Lower Upper

168 100

139 43.1 32.7 49.1

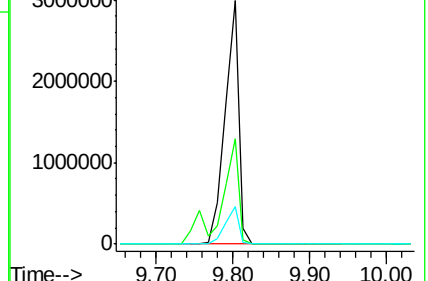
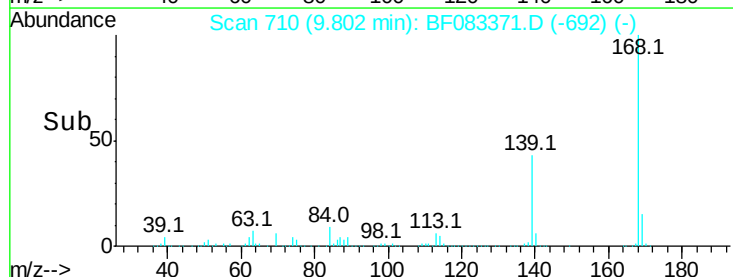
169 15.5 11.1 16.7

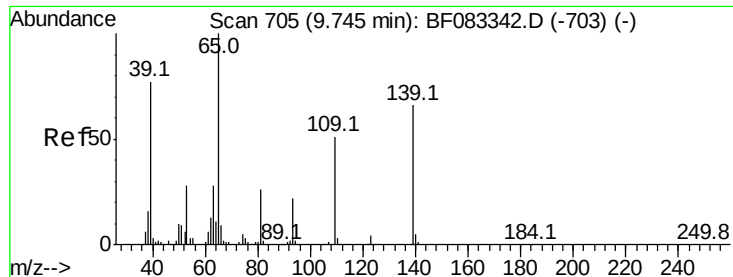


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 125.65 ng

RT: 9.76 min Scan# 706

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

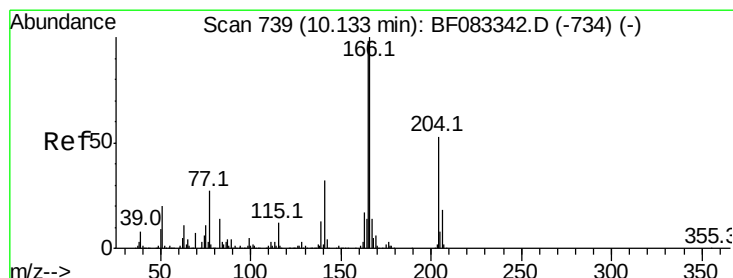
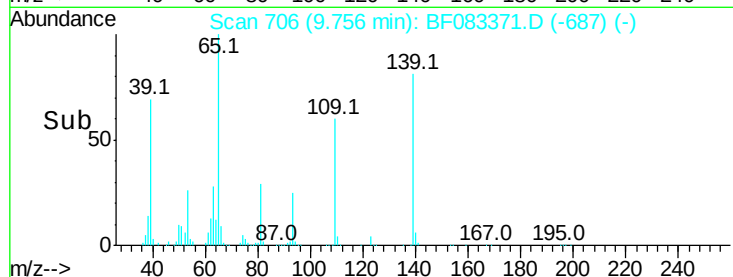
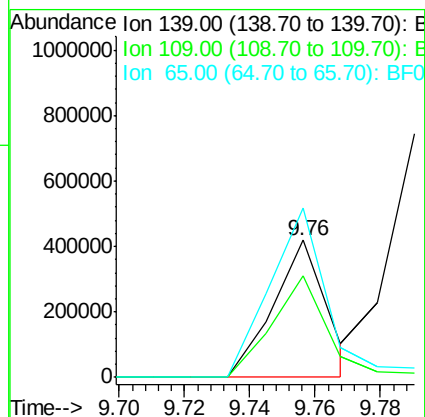
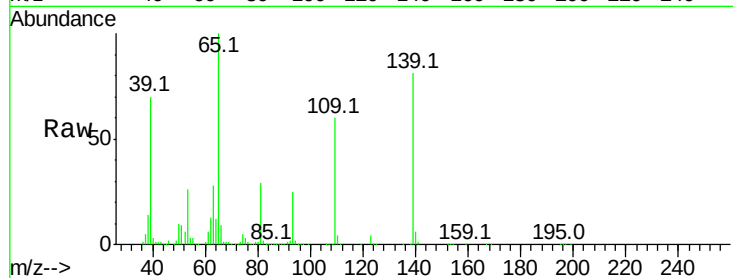
Tot Ion:139 Resp: 473206

Ion Ratio Lower Upper

139 100

109 74.2 57.4 97.4

65 123.3 131.6 171.6#



#57

Fluorene

Concen: 128.07 ng

RT: 10.14 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

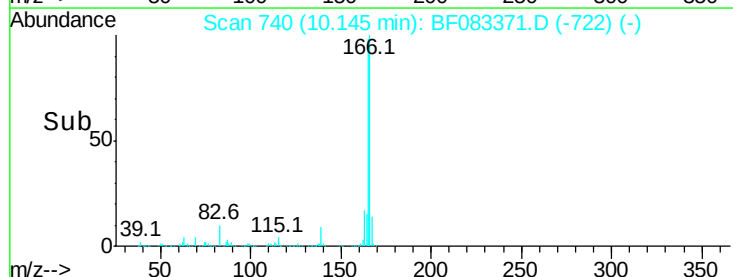
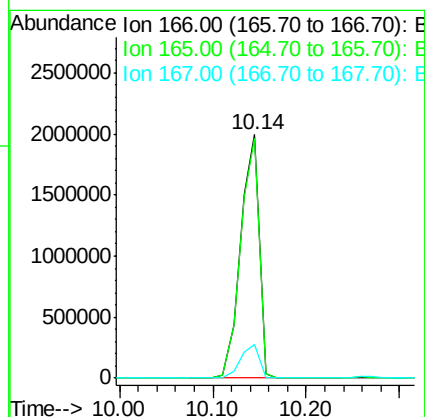
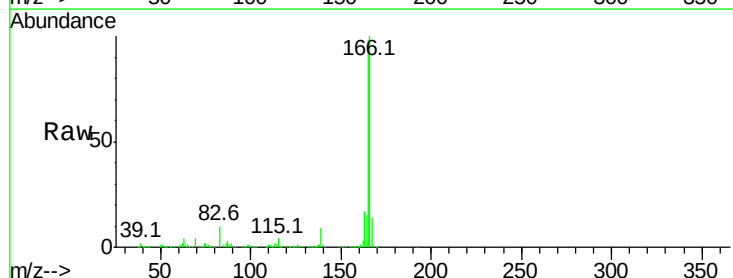
Tgt Ion:166 Resp: 2750131

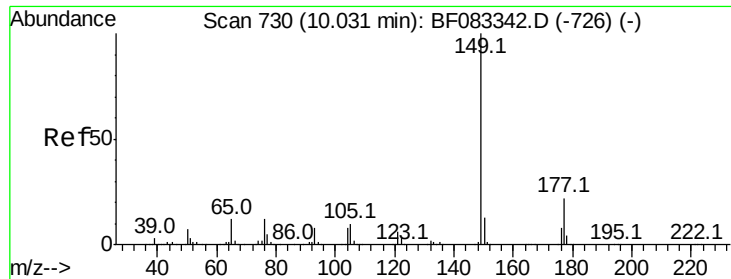
Ion Ratio Lower Upper

166 100

165 98.3 78.3 117.5

167 14.0 11.1 16.7

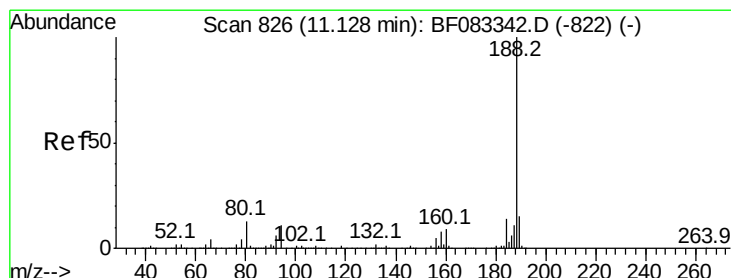
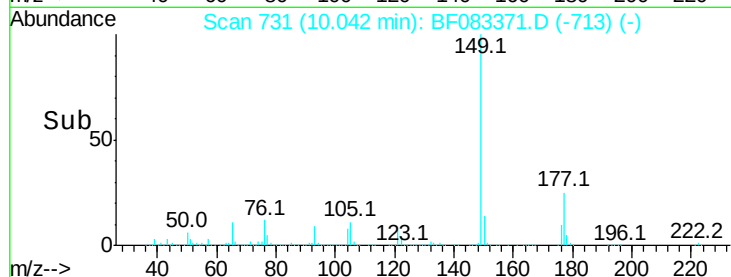
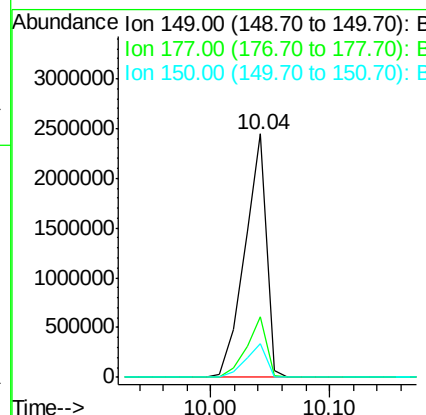
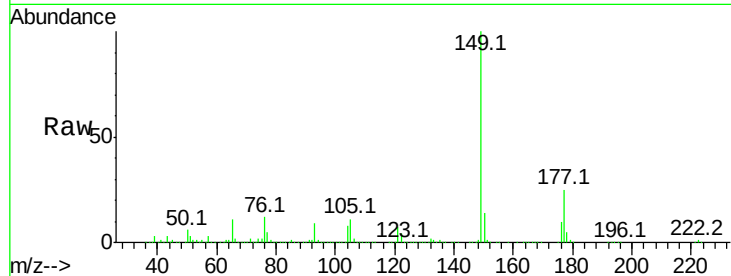




#59
Diethylphthalate
Concen: 134.67 ng
RT: 10.04 min Scan# 731
Delta R.T. 0.01 min
Lab File: BF083371.D
Acq: 1 Dec 2015 9:50

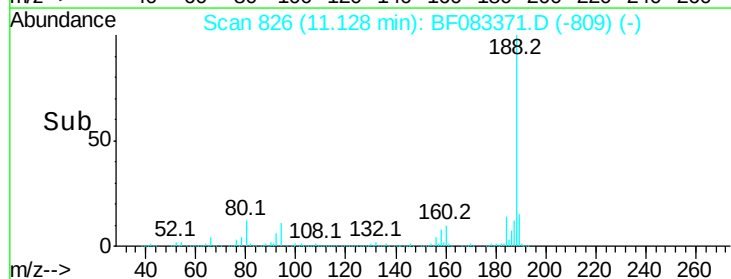
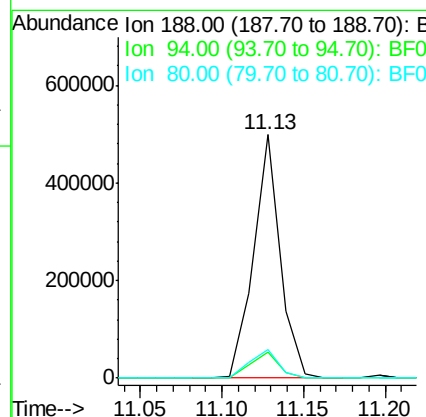
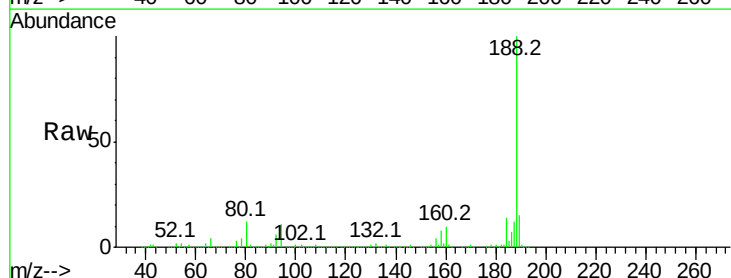
Instrument :
BNA_F
ClientSampleId :
PT-BNA-SOIL

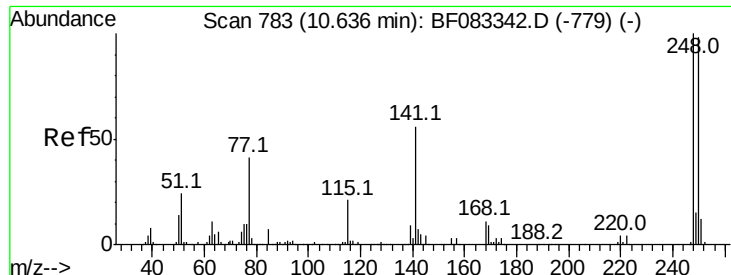
Tot Ion:149 Resp: 3087513
Ion Ratio Lower Upper
149 100
177 24.8 17.4 26.2
150 13.9 10.4 15.6



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 826
Delta R.T. 0.00 min
Lab File: BF083371.D
Acq: 1 Dec 2015 9:50

Tgt Ion:188 Resp: 565134
Ion Ratio Lower Upper
188 100
94 10.7 8.7 13.1
80 11.9 10.3 15.5

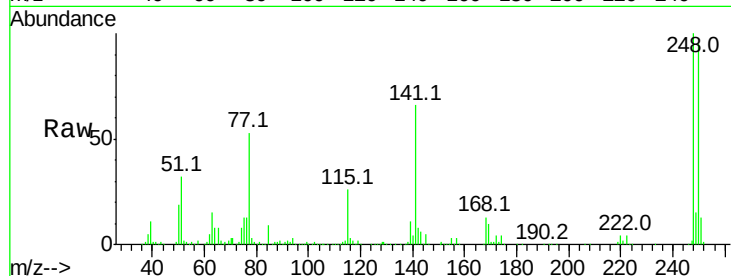




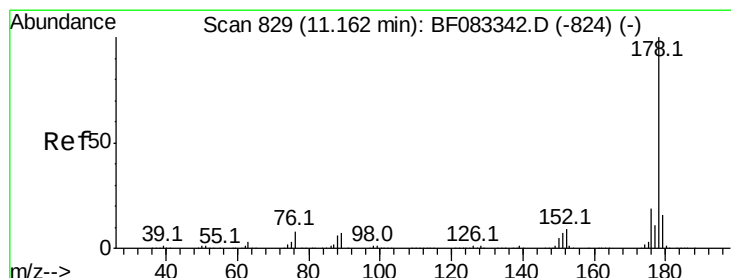
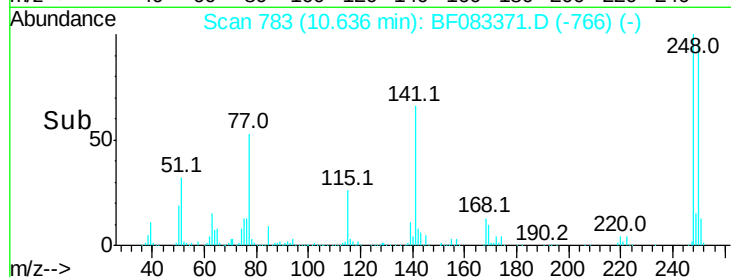
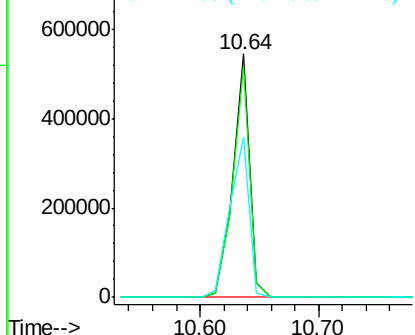
#66
 4-Bromophenyl-phenylether
 Concen: 85.66 ng
 RT: 10.64 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

Tot Ion:248 Resp: 529561
 Ion Ratio Lower Upper
 248 100
 250 94.8 78.6 118.0
 141 66.1 44.4 66.6

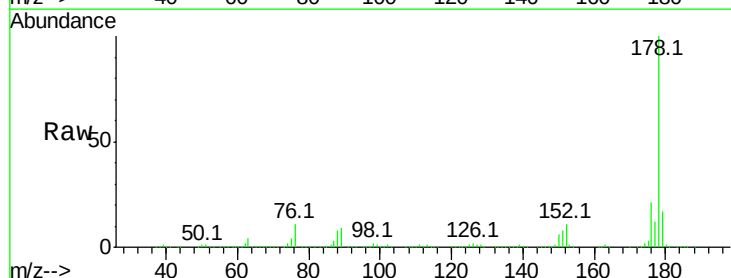


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

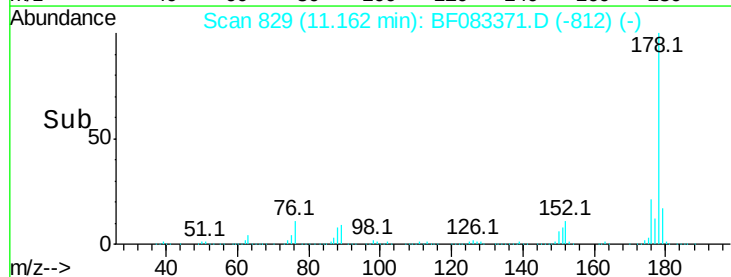
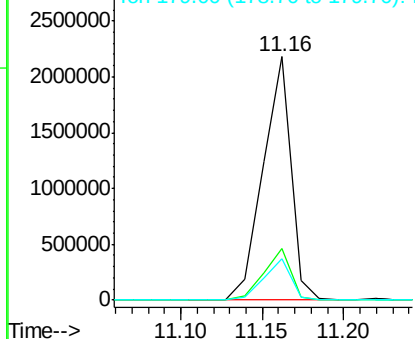


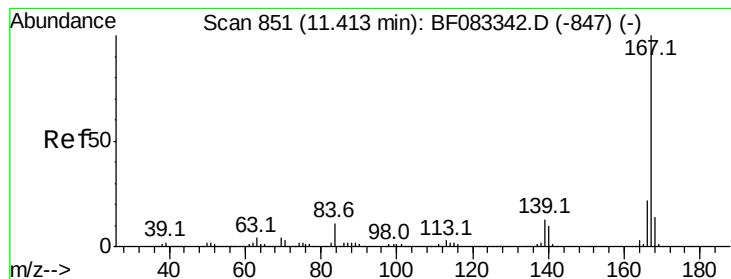
#70
 Phenanthrene
 Concen: 77.91 ng
 RT: 11.16 min Scan# 829
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:178 Resp: 2605649
 Ion Ratio Lower Upper
 178 100
 176 21.4 15.3 22.9
 179 16.8 12.4 18.6



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: 23.60 ng

RT: 11.41 min Scan# 851

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

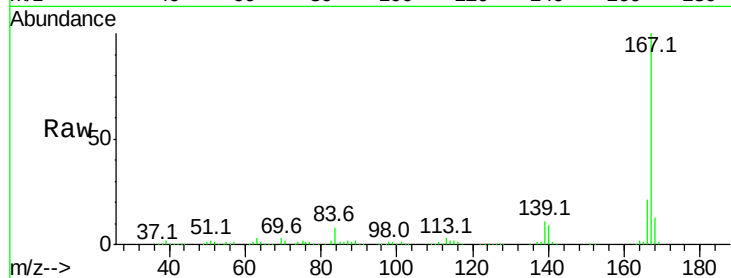
Tot Ion:167 Resp: 713810

Ion Ratio Lower Upper

167 100

166 21.1 17.4 26.0

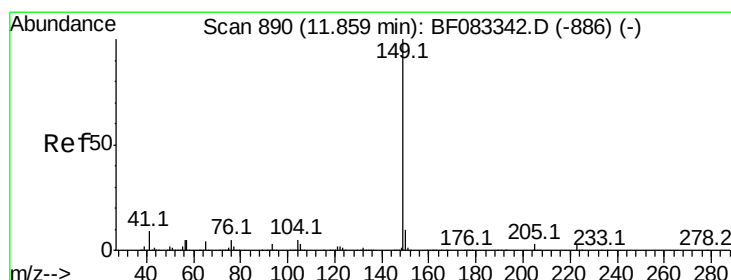
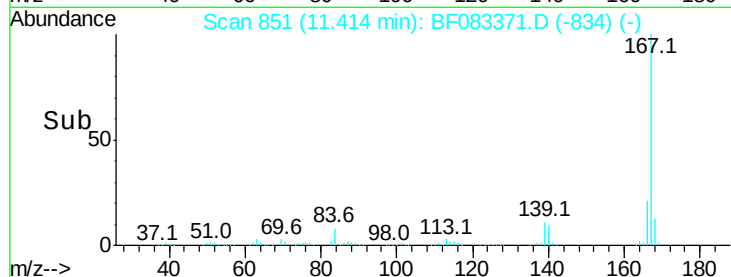
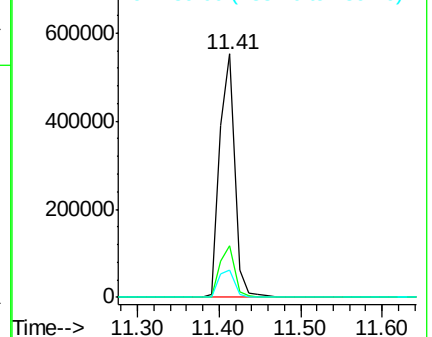
139 11.4 10.5 15.7



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: 44.87 ng

RT: 11.86 min Scan# 890

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

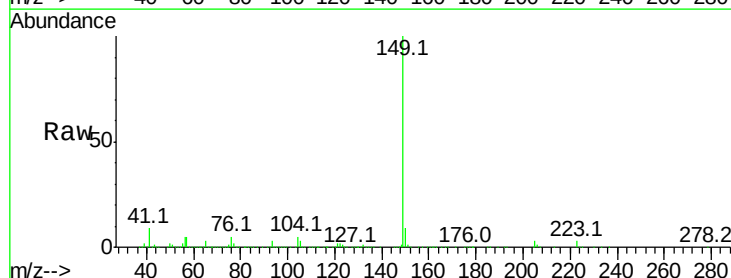
Tgt Ion:149 Resp: 1608687

Ion Ratio Lower Upper

149 100

150 9.4 7.7 11.5

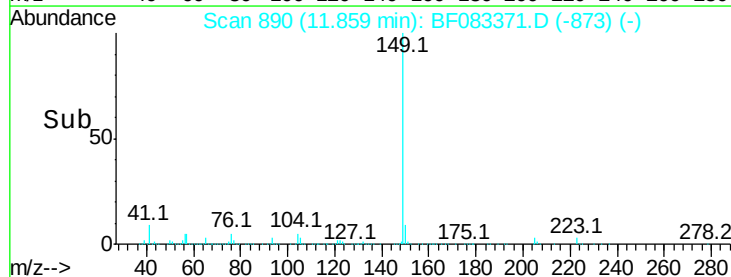
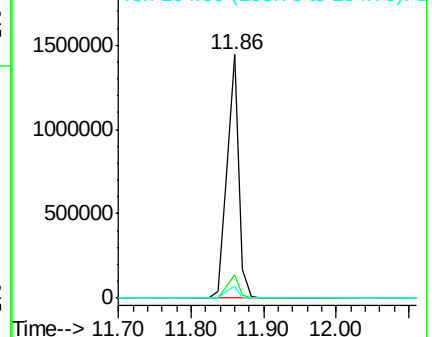
104 4.9 4.0 6.0

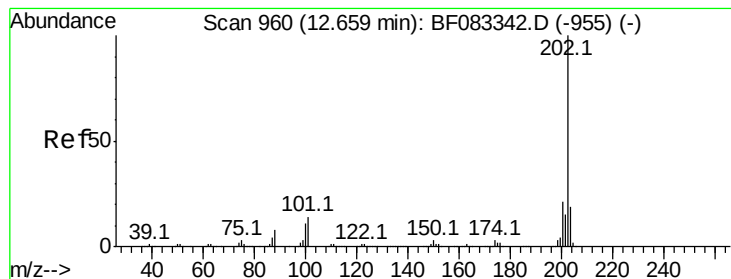


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 78.66 ng

RT: 12.67 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

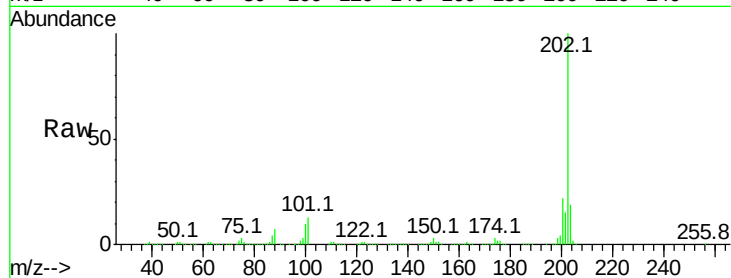
Tot Ion:202 Resp: 2726912

Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.5

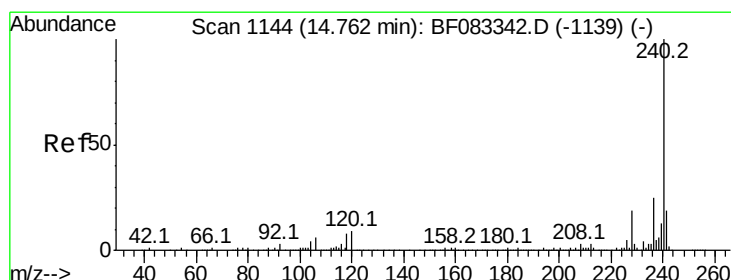
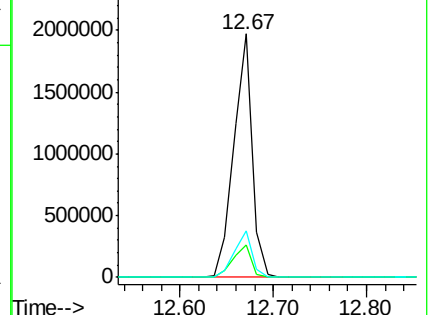
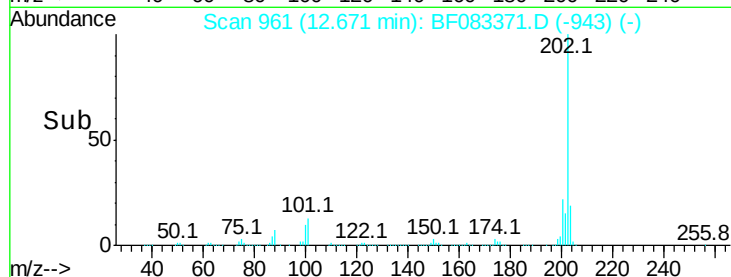
203 19.2 0.0 38.7



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: 14.76 min Scan# 1144

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

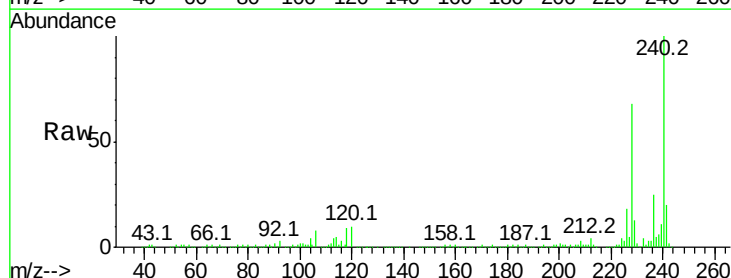
Tgt Ion:240 Resp: 459212

Ion Ratio Lower Upper

240 100

120 10.3 6.9 10.3

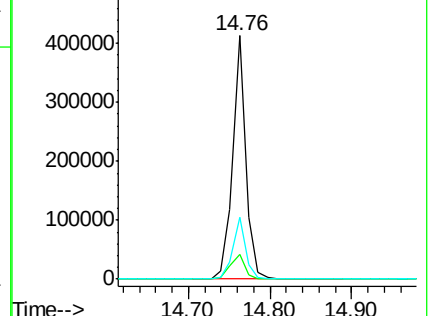
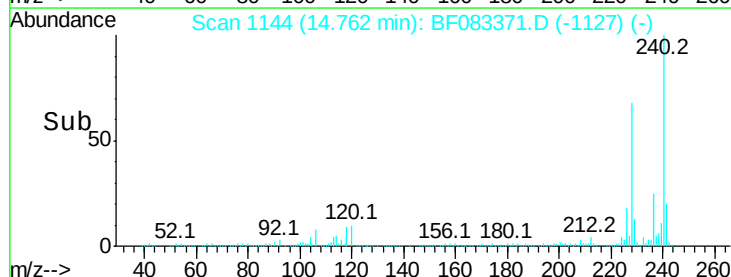
236 25.4 19.8 29.6

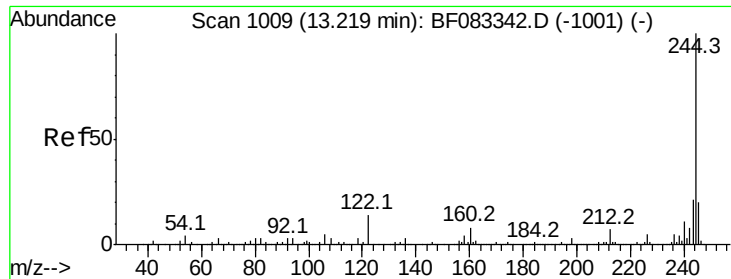


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

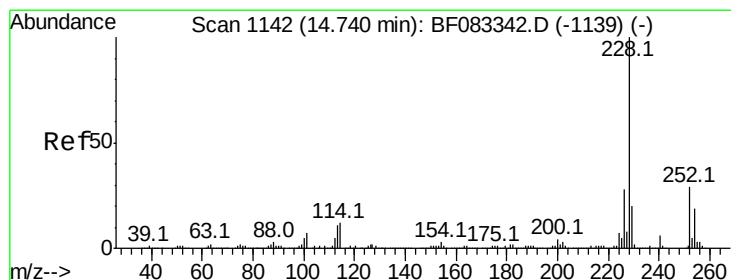
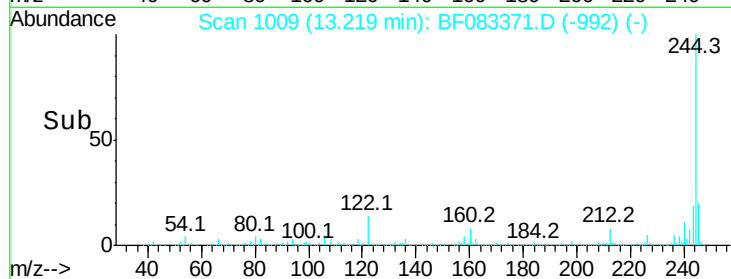
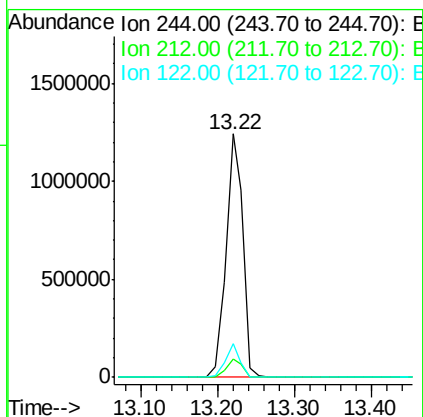
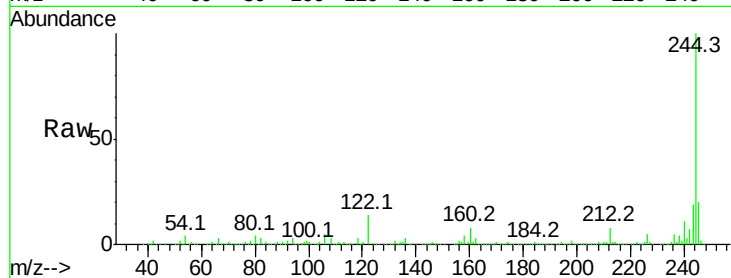




#78
 Terphenyl-d14
 Concen: 99.83 ng
 RT: 13.22 min Scan# 1009
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

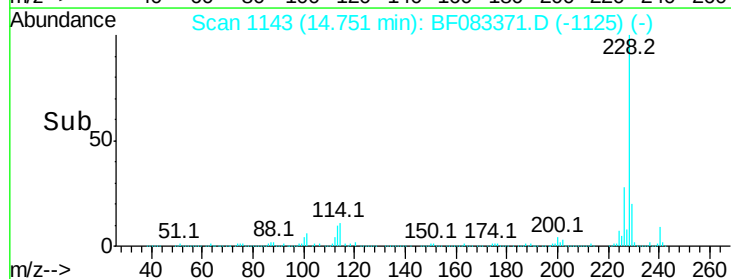
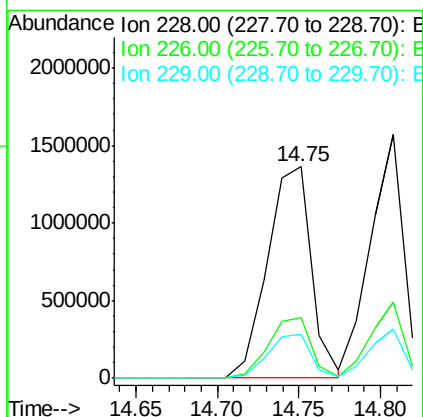
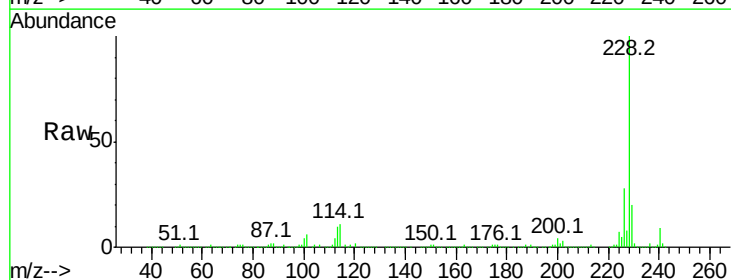
Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

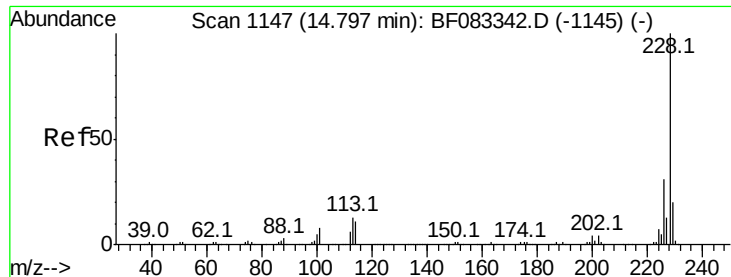
Tot Ion:244 Resp: 1922199
 Ion Ratio Lower Upper
 244 100
 212 7.8 5.8 8.8
 122 13.9 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 90.93 ng
 RT: 14.75 min Scan# 1143
 Delta R.T. 0.01 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:228 Resp: 2558151
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.2 33.4
 229 20.5 16.1 24.1

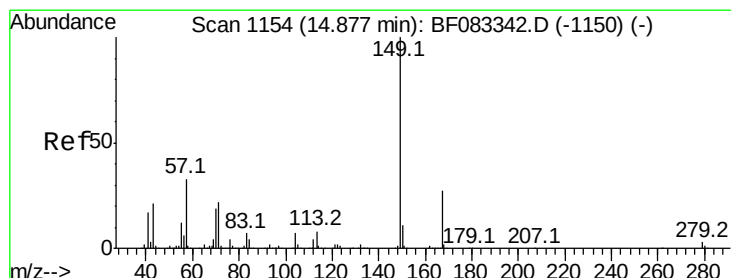
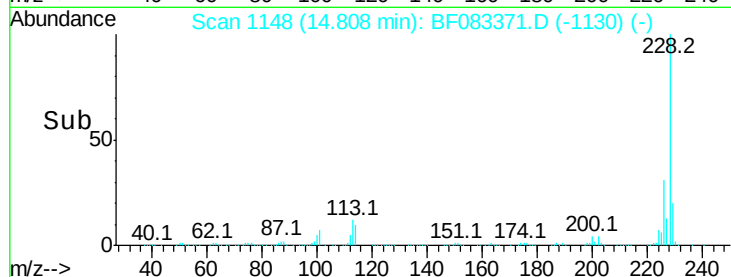
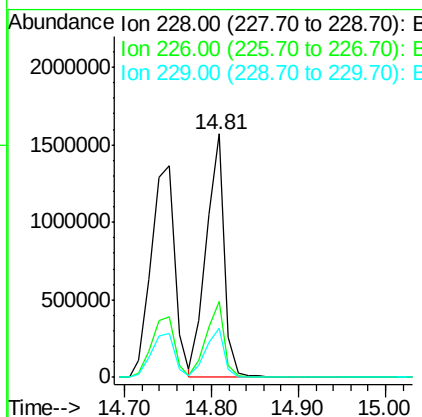
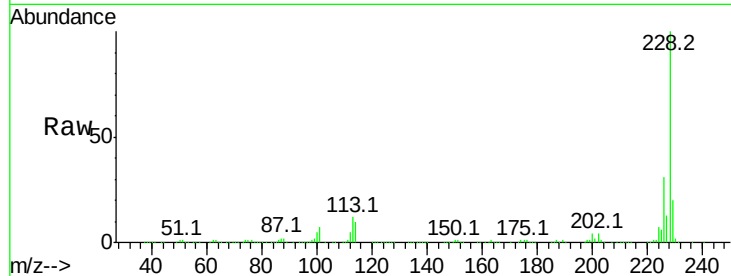




#82
 Chrysene
 Concen: 83.28 ng
 RT: 14.81 min Scan# 1148
 Delta R.T. 0.01 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

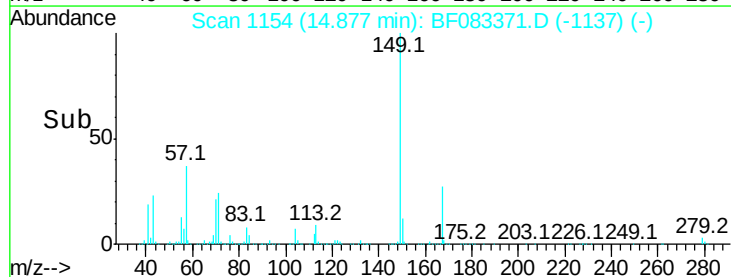
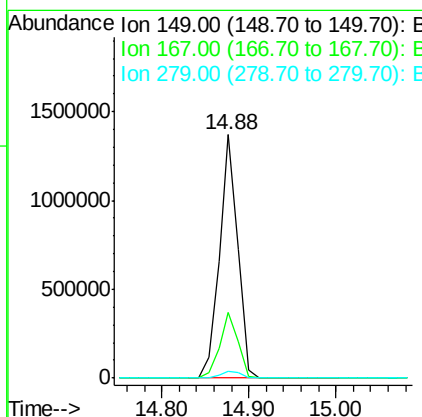
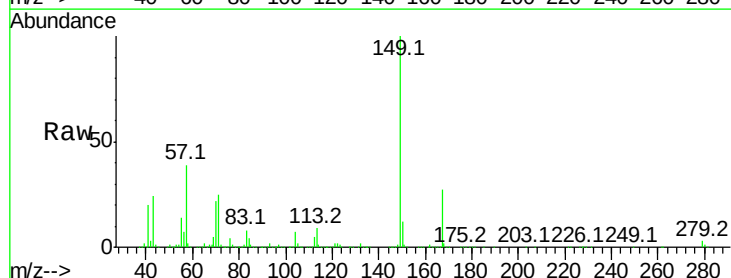
Instrument :
 BNA_F
 ClientSampleId :
 PT-BNA-SOIL

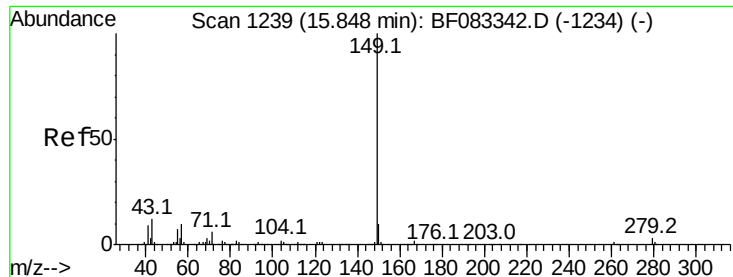
Tot Ion:228 Resp: 2263763
 Ion Ratio Lower Upper
 228 100
 226 31.1 24.6 37.0
 229 20.3 16.2 24.2



#83
 Bis(2-ethylhexyl)phthalate
 Concen: 110.10 ng
 RT: 14.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: BF083371.D
 Acq: 1 Dec 2015 9:50

Tgt Ion:149 Resp: 2009245
 Ion Ratio Lower Upper
 149 100
 167 26.8 21.5 32.3
 279 2.7 2.6 3.8





#84

Di-n-octyl phthalate

Concen: 100.34 ng

RT: 15.85 min Scan# 1239

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

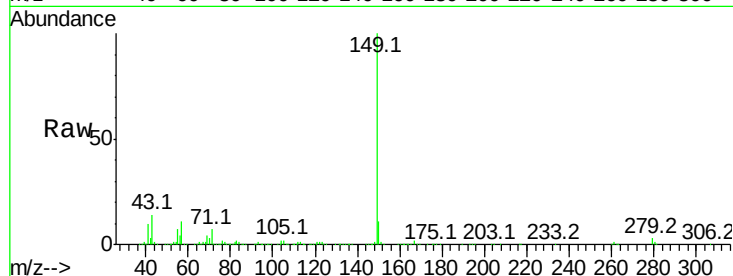
Tot Ion:149 Resp: 2726877

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

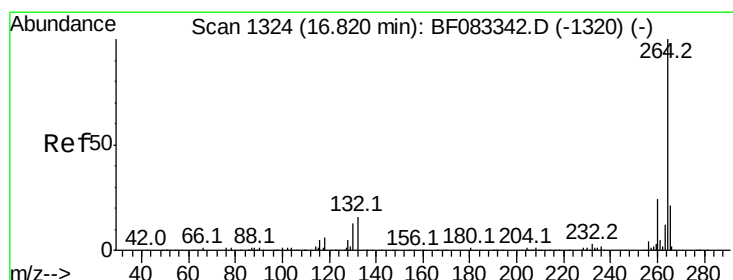
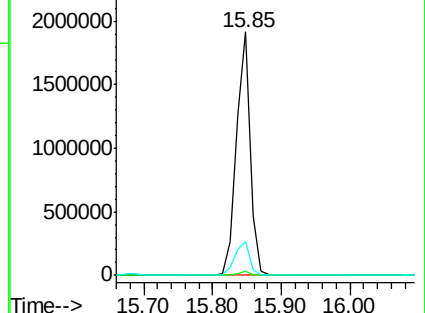
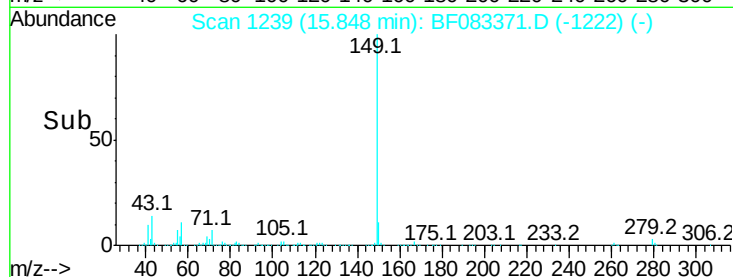
43 14.5 11.0 16.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.82 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

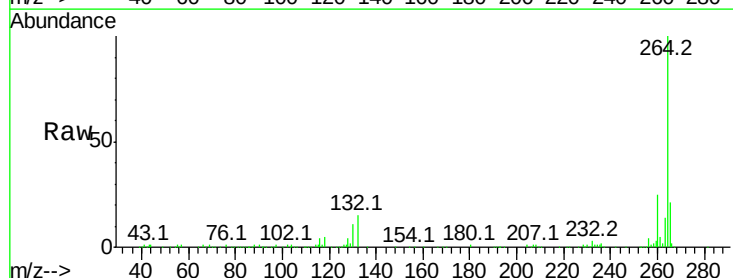
Tgt Ion:264 Resp: 340692

Ion Ratio Lower Upper

264 100

260 25.0 19.0 28.4

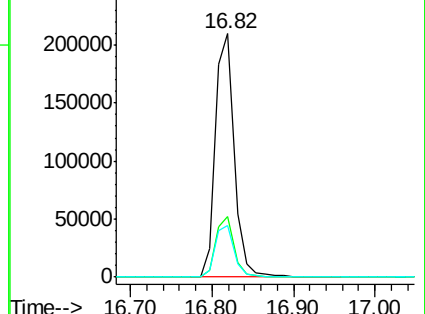
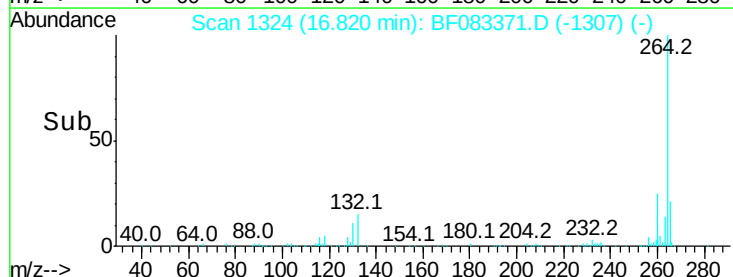
265 21.1 16.8 25.2

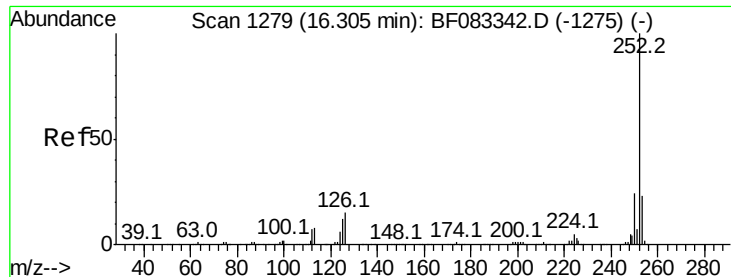


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 85.24 ng

RT: 16.32 min Scan# 1280

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Instrument :

BNA_F

ClientSampleId :

PT-BNA-SOIL

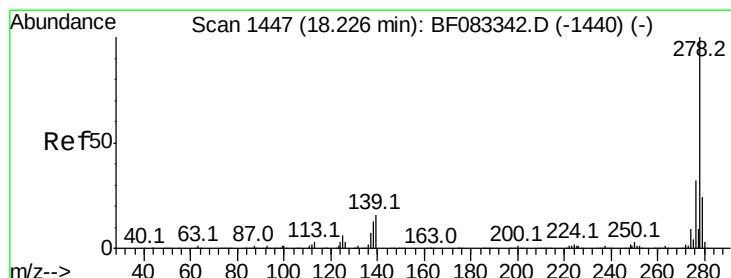
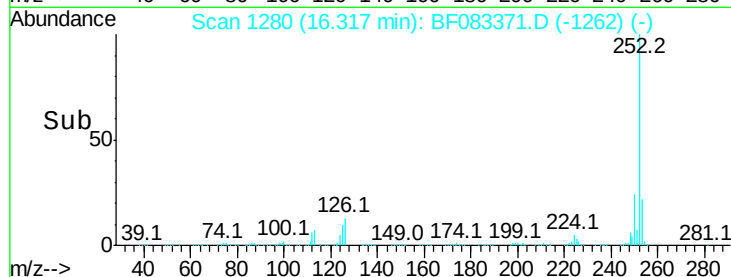
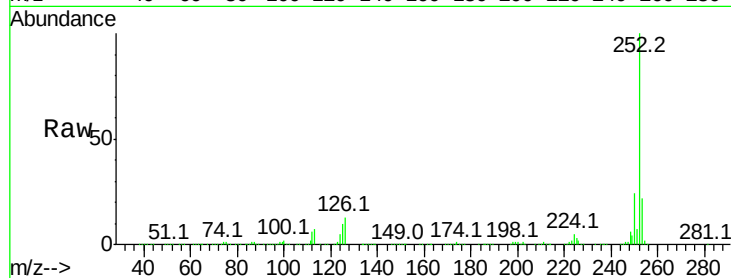
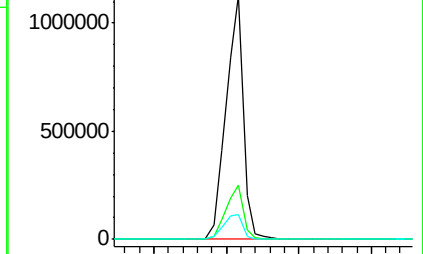
Tot Ion:252 Resp: 1863349

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.4	27.6
125	10.0	9.6	14.4

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



#90

Dibenzo(a,h)anthracene

Concen: 129.55 ng

RT: 18.24 min Scan# 1448

Delta R.T. 0.01 min

Lab File: BF083371.D

Acq: 1 Dec 2015 9:50

Tgt Ion:278 Resp: 2119542

Ion	Ratio	Lower	Upper
278	100		
139	18.1	13.1	19.7
279	24.6	19.2	28.8

Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

