

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042315\
 Data File : BF078762.D
 Acq On : 23 Apr 2015 22:11
 Operator : TP/IZ
 Sample : G1989-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL1

Quant Time: Apr 24 01:07:26 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 24 00:49:54 2015
 Response via : Initial Calibration

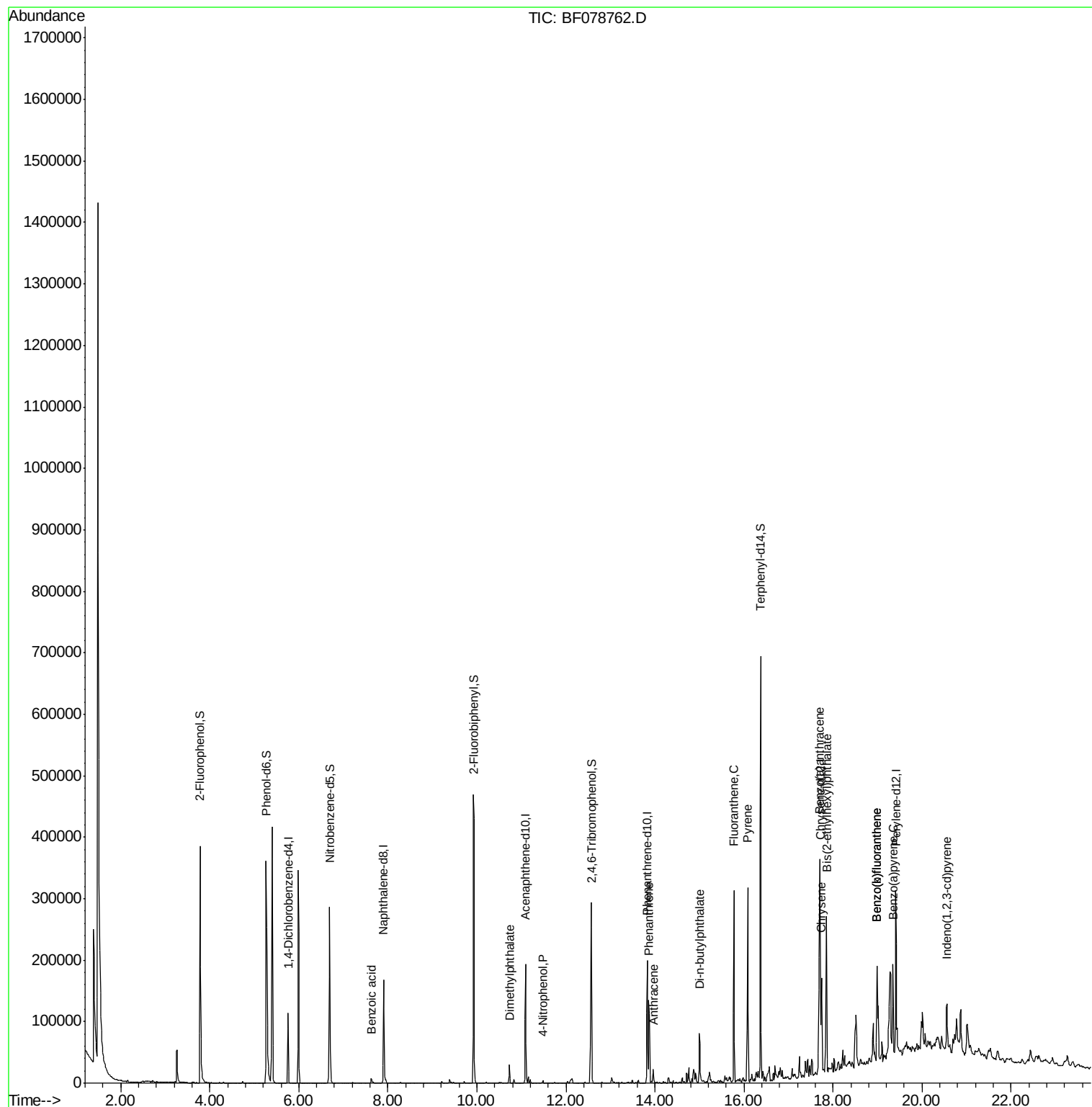
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.76	152	28079	20.00	ng	0.01
21) Naphthalene-d8	7.91	136	115993	20.00	ng	0.00
38) Acenaphthene-d10	11.10	164	58038	20.00	ng	0.00
63) Phenanthrene-d10	13.83	188	113618	20.00	ng	0.00
75) Chrysene-d12	17.71	240	124456	20.00	ng	0.00
86) Perylene-d12	19.41	264	128799	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	3.78	112	159303	93.54	ng	0.01
7) Phenol-d6	5.27	99	209979	98.38	ng	0.01
23) Nitrobenzene-d5	6.70	82	128540	67.17	ng	0.00
41) 2,4,6-Tribromophenol	12.57	330	54288	112.78	ng	0.00
44) 2-Fluorobiphenyl	9.93	172	253223	62.37	ng	0.00
78) Terphenyl-d14	16.38	244	282330	51.26	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	7.62	122	3661	9.65	ng	84
49) Dimethylphthalate	10.73	163	18714	4.29	ng	# 99
55) 4-Nitrophenol	11.48	139	994	4.04	ng	# 18
70) Phenanthrene	13.86	178	81093	12.34	ng	99
71) Anthracene	13.97	178	17320	2.67	ng	99
73) Di-n-butylphthalate	14.99	149	37321	5.43	ng	99
74) Fluoranthene	15.77	202	152398	21.99	ng	93
77) Pyrene	16.08	202	142956	18.30	ng	96
80) Benzo(a)anthracene	17.70	228	78098	10.55	ng	99
82) Chrysene	17.74	228	62996	9.05	ng	98
83) Bis(2-ethylhexyl)phthalate	17.85	149	110735	23.71	ng	99
85) Indeno(1,2,3-cd)pyrene	20.56	276	48186	6.10	ng	94
87) Benzo(b)fluoranthene	18.98	252	101339	12.73	ng	# 94
88) Benzo(k)fluoranthene	18.98	252	128551	18.17	ng	98
89) Benzo(a)pyrene	19.35	252	67727	9.75	ng	# 95

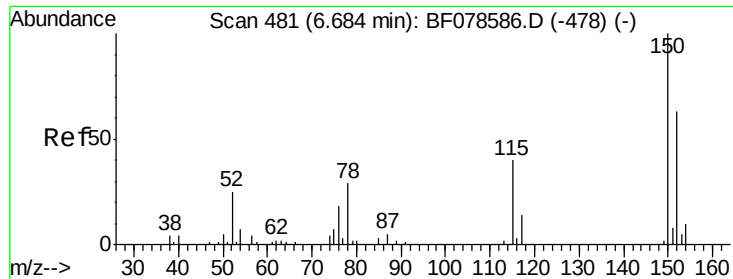
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.76 min Scan# 400

Delta R.T. 0.01 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

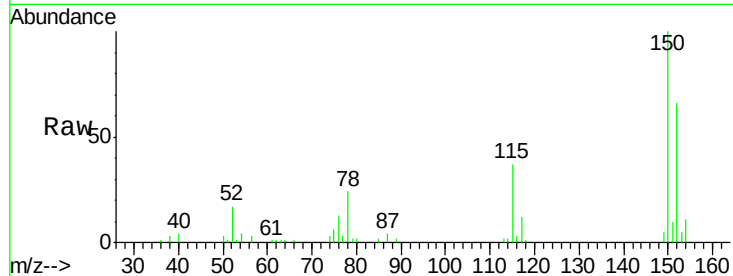
Tgt Ion:152 Resp: 28079

Ion Ratio Lower Upper

152 100

150 151.5 125.9 188.9

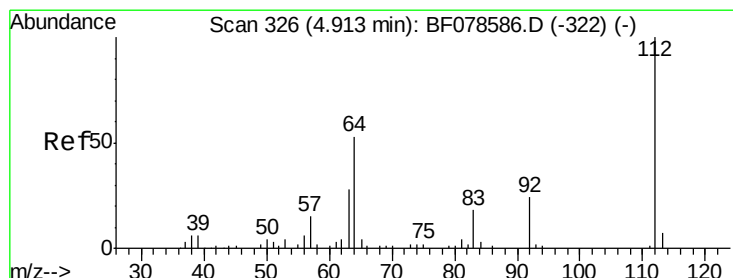
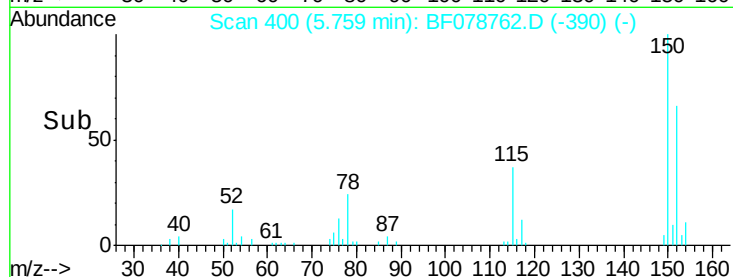
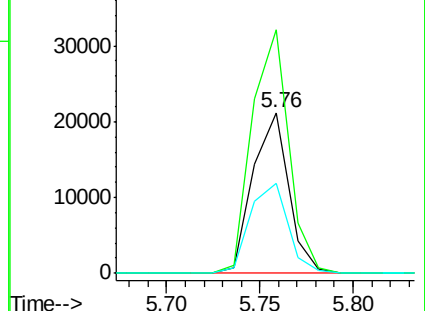
115 55.7 52.7 79.1



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: 93.54 ng

RT: 3.78 min Scan# 227

Delta R.T. 0.01 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

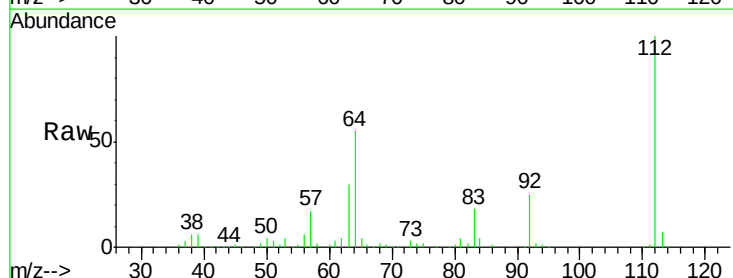
Tgt Ion:112 Resp: 159303

Ion Ratio Lower Upper

112 100

64 54.8 39.9 59.9

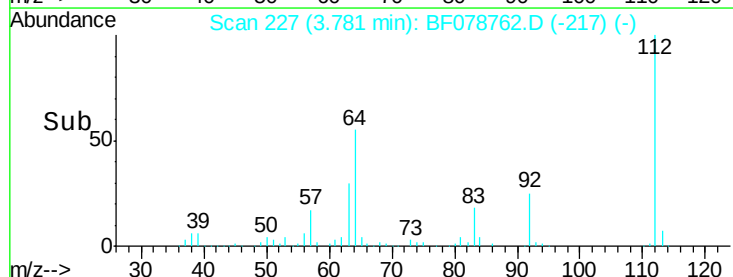
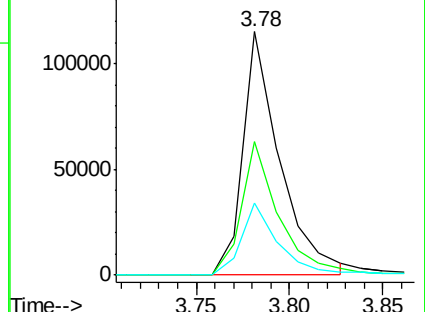
63 29.6 20.2 30.4

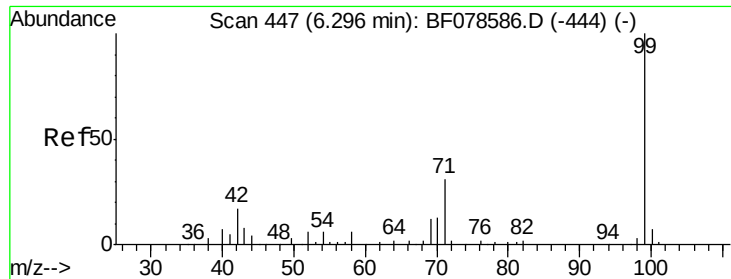


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.38 ng

RT: 5.27 min Scan# 357

Delta R.T. 0.01 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

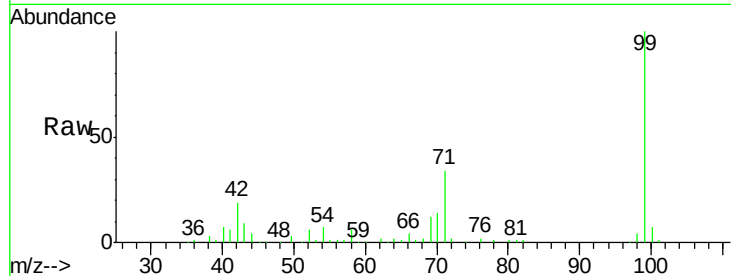
Tgt Ion: 99 Resp: 209979

Ion Ratio Lower Upper

99 100

42 18.7 14.8 22.2

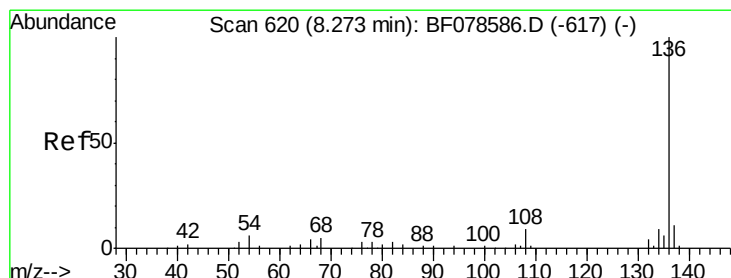
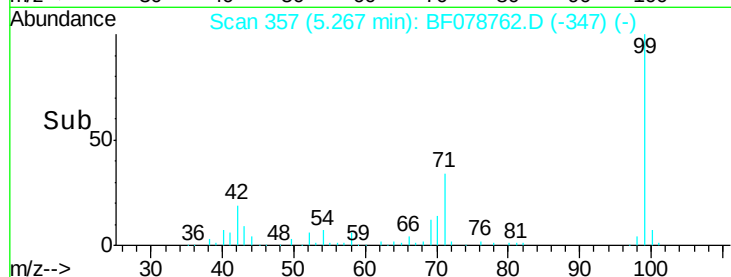
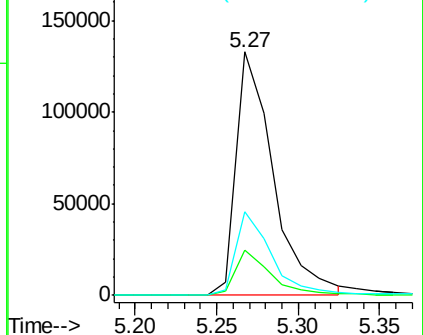
71 34.2 26.6 39.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 588

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Tgt Ion: 136 Resp: 115993

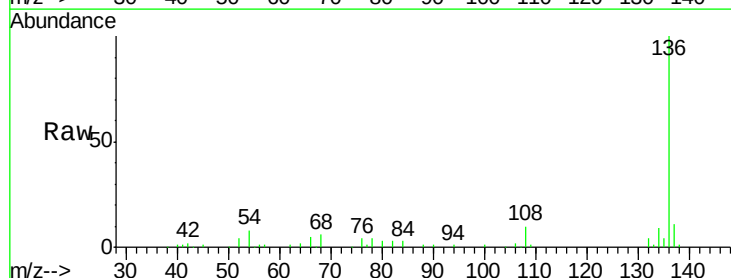
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 8.1 7.0 10.6

68 5.9 5.4 8.2

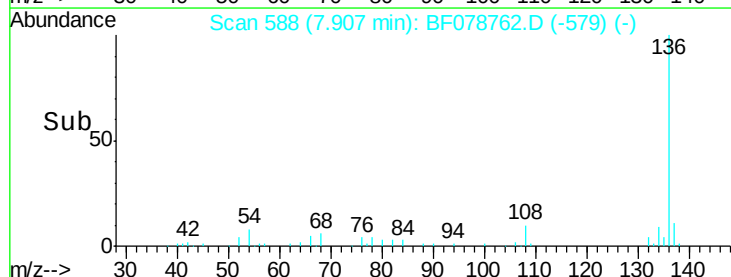
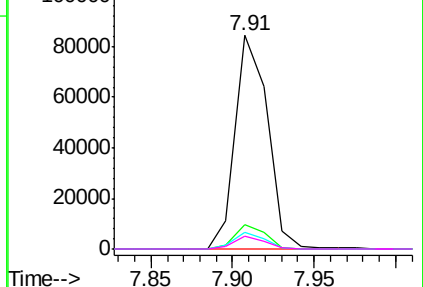


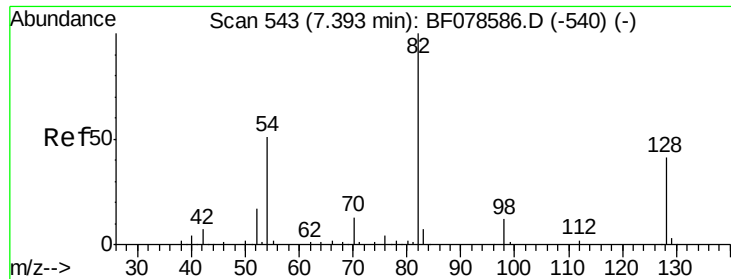
Abundance Ion 136.00 (135.70 to 136.70): E

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

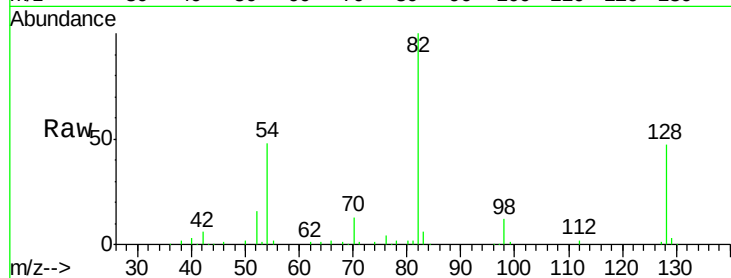




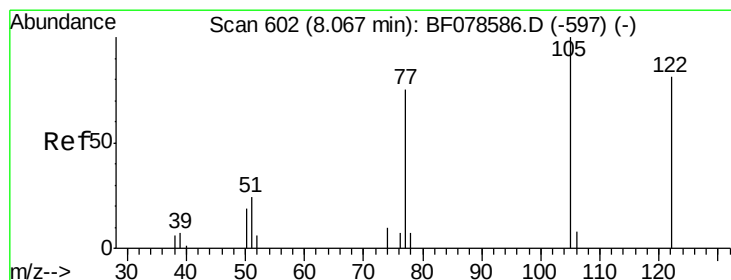
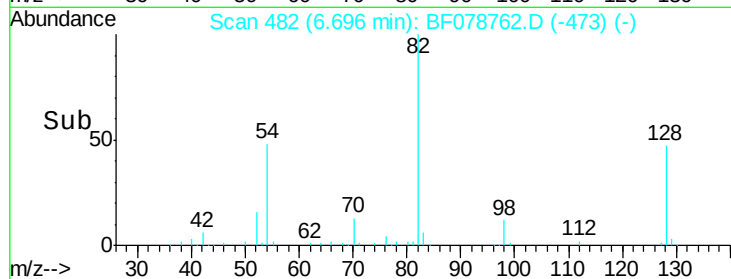
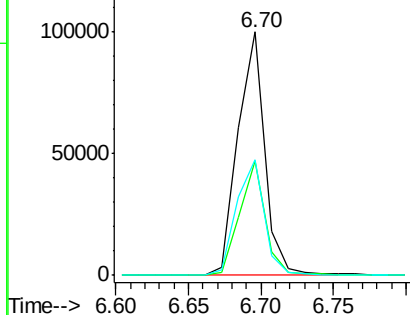
#23
 Nitrobenzene-d5
 Concen: 67.17 ng
 RT: 6.70 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

Instrument :
 BNA_F
 ClientSampleId :
 SOIL1

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.1	31.8	47.8
54	47.6	41.5	62.3

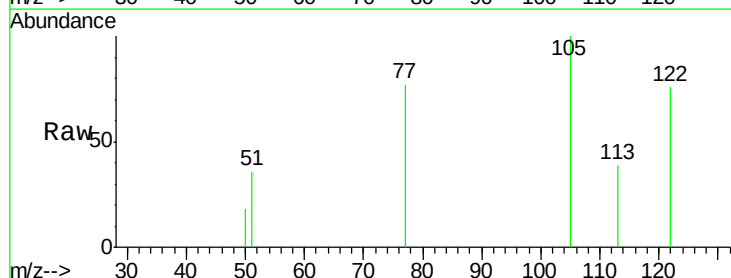


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

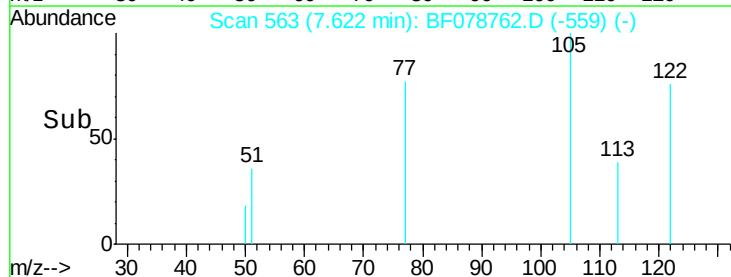
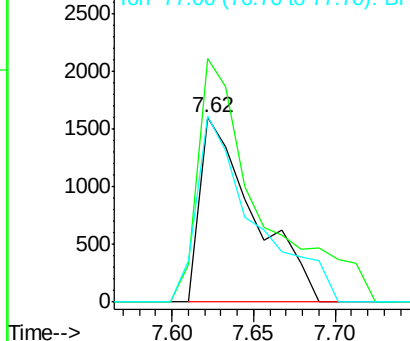


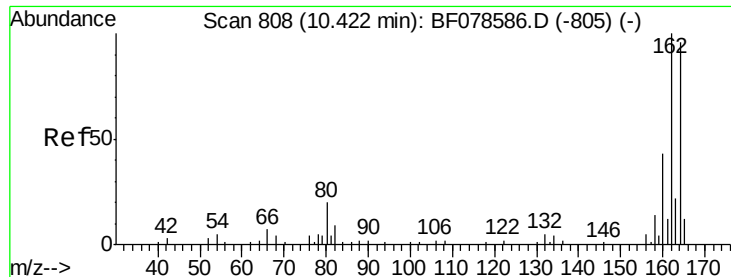
#32
 Benzoic acid
 Concen: 9.65 ng
 RT: 7.62 min Scan# 563
 Delta R.T. -0.06 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

Tgt Ion	Ratio	Lower	Upper
122	100		
105	132.1	96.1	136.1
77	101.3	64.1	104.1



Abundance Ion 122.00 (121.70 to 122.70): B
 Ion 105.00 (104.70 to 105.70): B
 Ion 77.00 (76.70 to 77.70): BF0

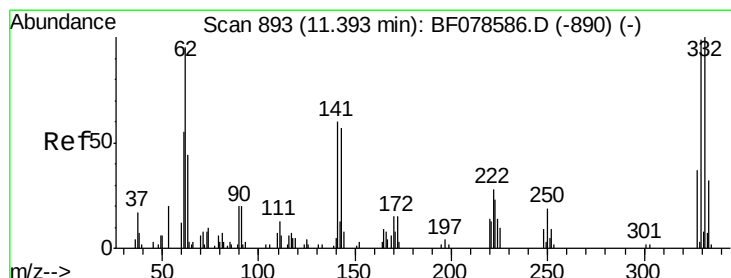
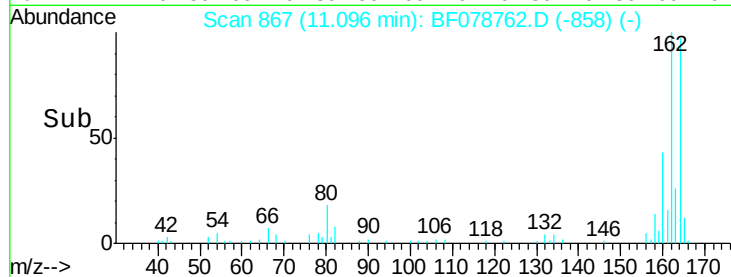
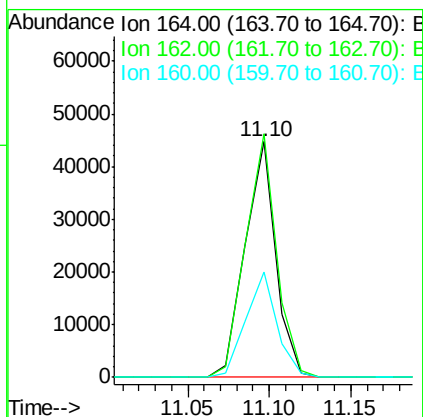
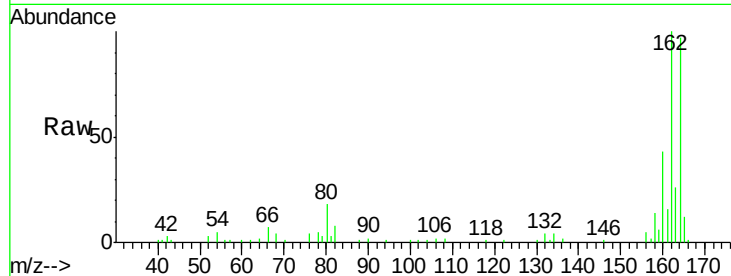




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 867
 Delta R.T. -0.00 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

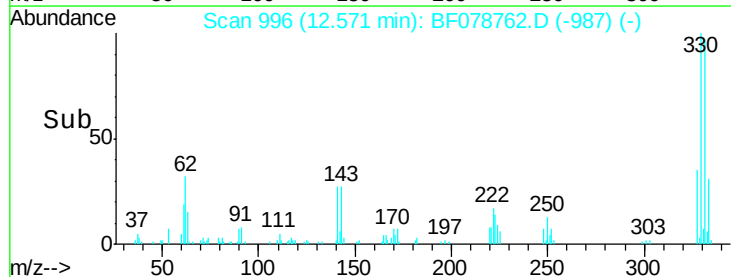
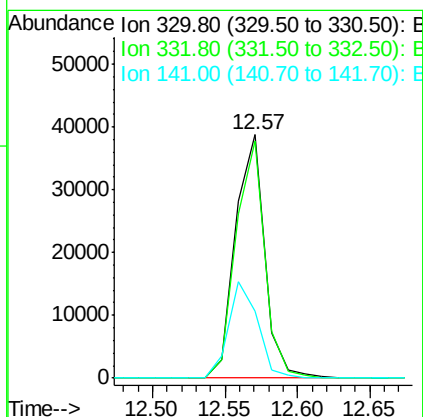
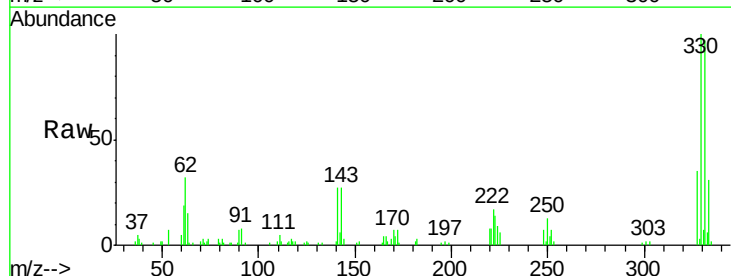
Instrument :
 BNA_F
 ClientSampleId :
 SOIL1

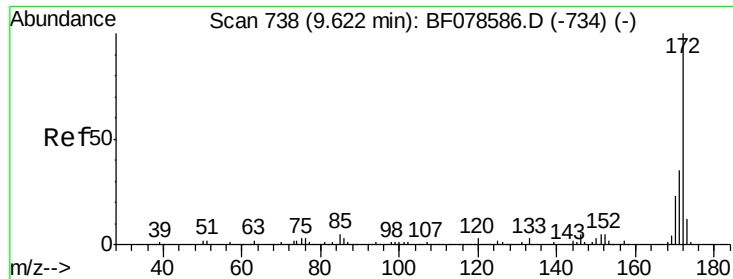
Tgt Ion:164 Resp: 58038
 Ion Ratio Lower Upper
 164 100
 162 103.4 82.2 123.2
 160 44.9 34.7 52.1



#41
 2,4,6-Tribromophenol
 Concen: 112.78 ng
 RT: 12.57 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

Tgt Ion:330 Resp: 54288
 Ion Ratio Lower Upper
 330 100
 332 95.6 78.6 117.8
 141 39.3 31.2 46.8

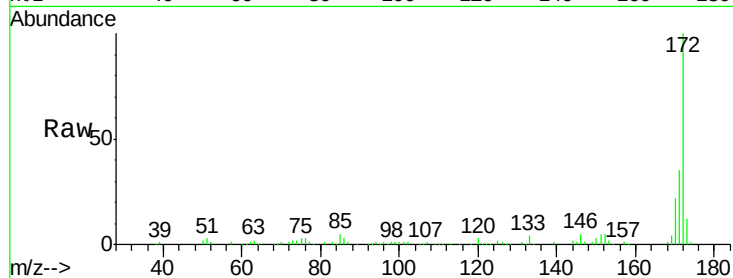




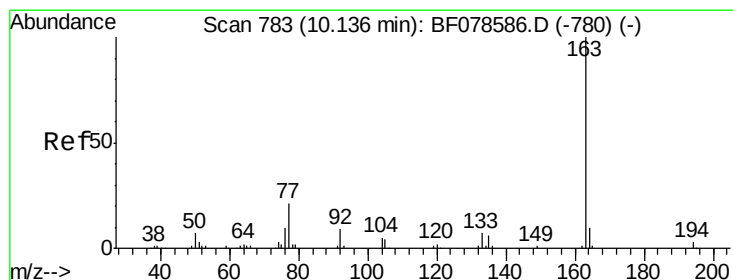
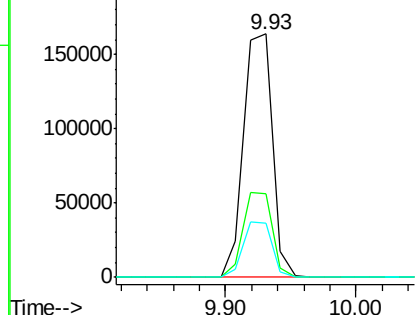
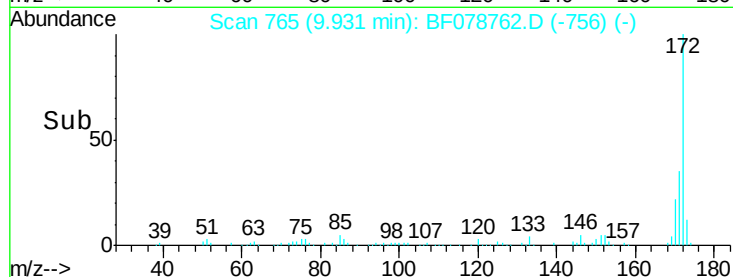
#44
2-Fluorobiphenyl
Concen: 62.37 ng
RT: 9.93 min Scan# 765
Delta R.T. -0.00 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

Instrument :
BNA_F
ClientSampleId :
SOIL1

Tgt Ion:172 Resp: 253223
Ion Ratio Lower Upper
172 100
171 34.6 28.6 42.8
170 22.5 18.5 27.7

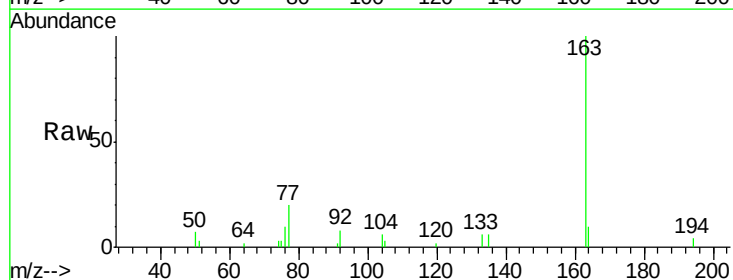


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

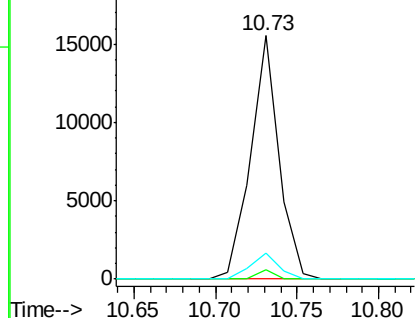
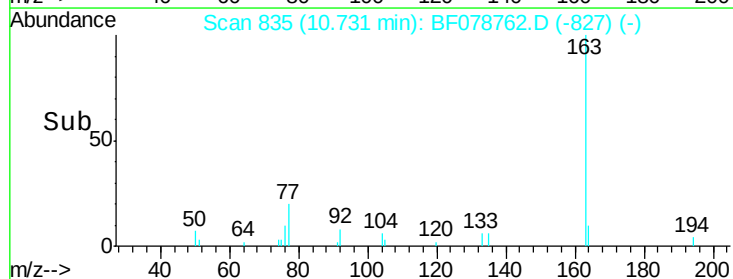


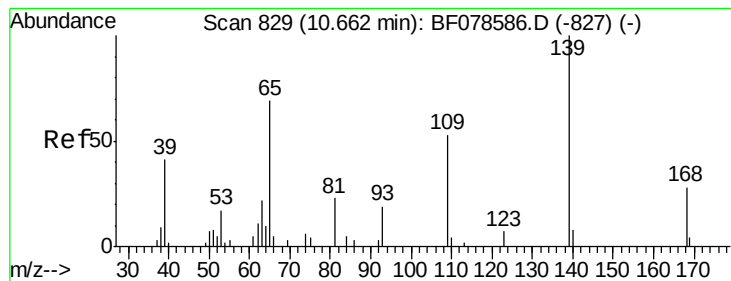
#49
Dimethylphthalate
Concen: 4.29 ng
RT: 10.73 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

Tgt Ion:163 Resp: 18714
Ion Ratio Lower Upper
163 100
194 3.9 2.3 3.5#
164 10.5 8.6 13.0



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





#55

4-Nitrophenol

Concen: 4.04 ng

RT: 11.48 min Scan# 901

Delta R.T. -0.06 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

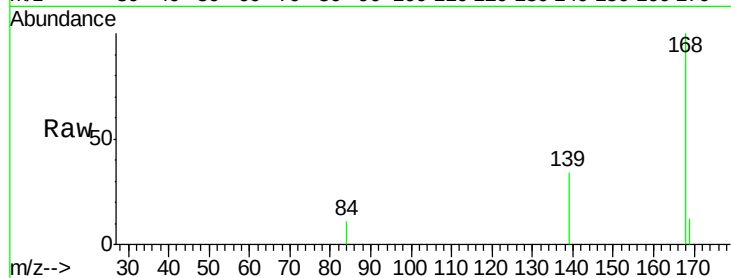
Tgt Ion:139 Resp: 994

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

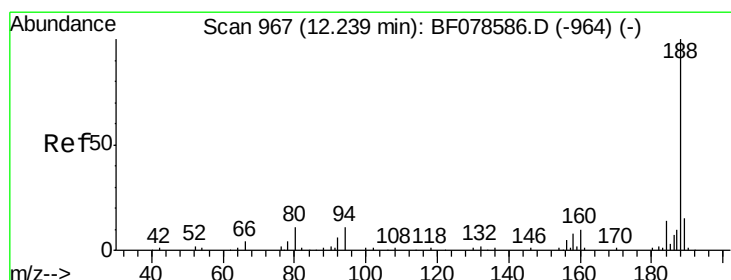
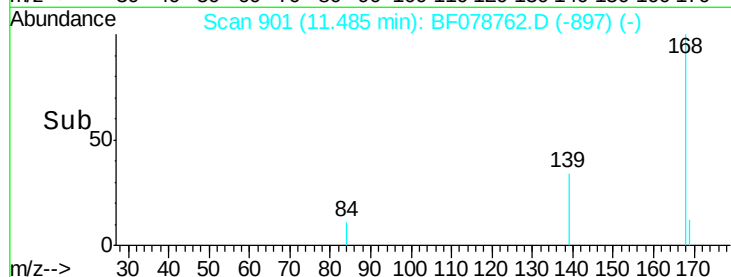
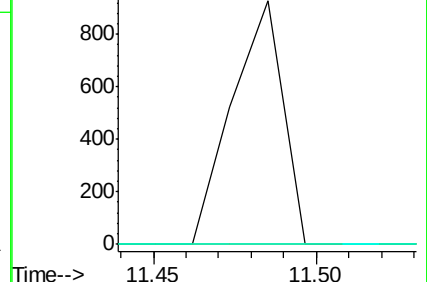
65 0.0 49.9 89.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 13.83 min Scan# 1106

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

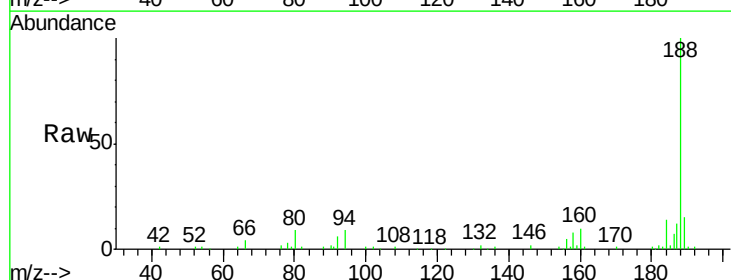
Tgt Ion:188 Resp: 113618

Ion Ratio Lower Upper

188 100

94 9.1 9.0 13.4

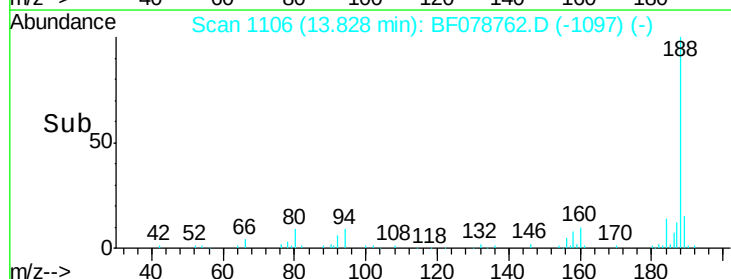
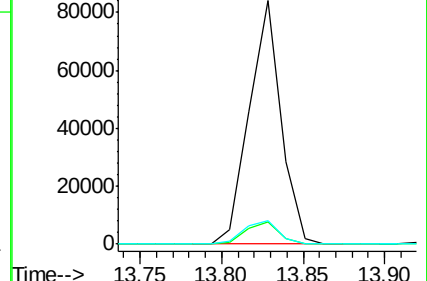
80 9.4 9.5 14.3#

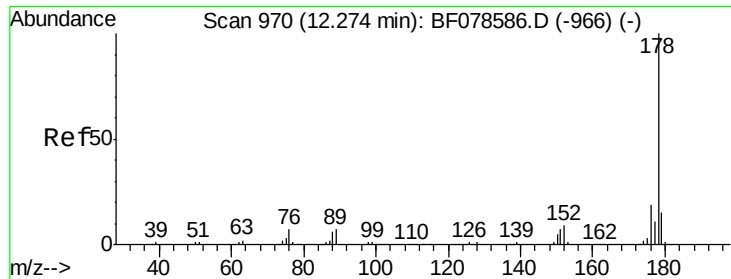


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

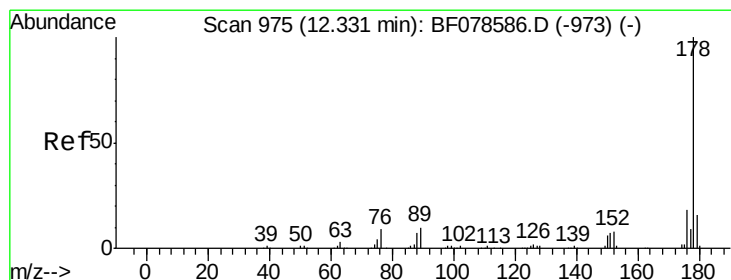
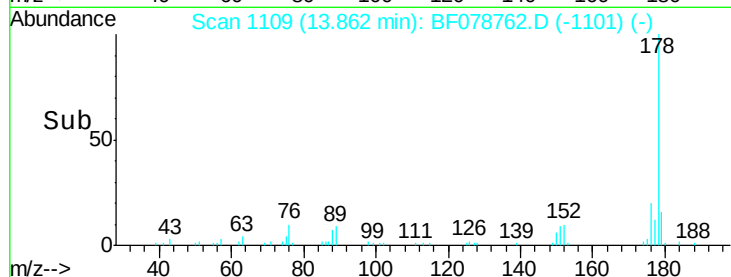
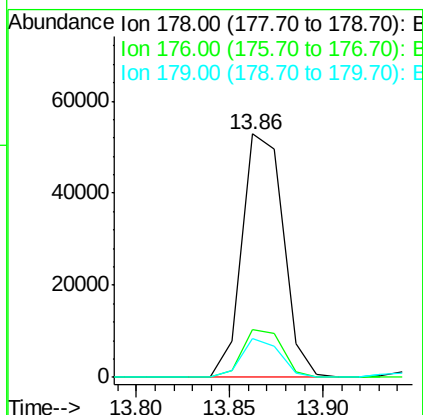
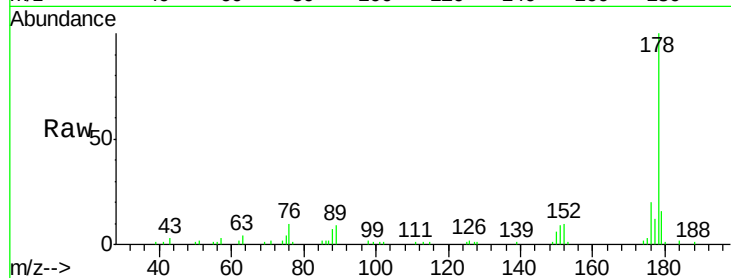




#70
 Phenanthrene
 Concen: 12.34 ng
 RT: 13.86 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

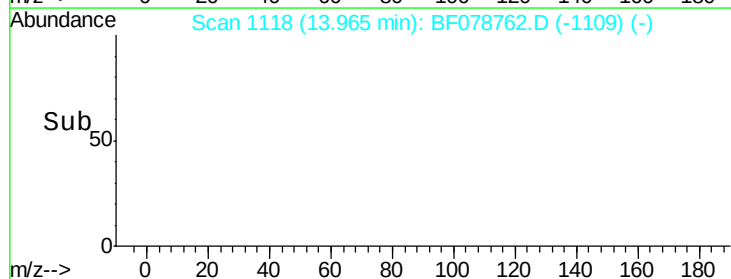
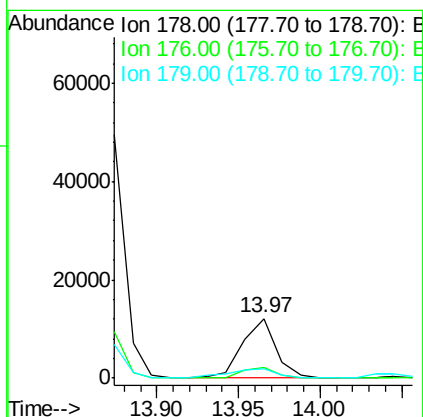
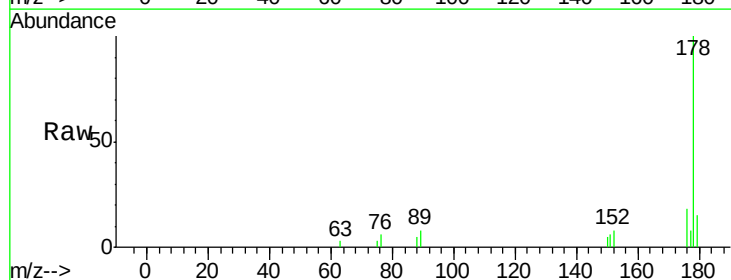
Instrument :
 BNA_F
 ClientSampleId :
 SOIL1

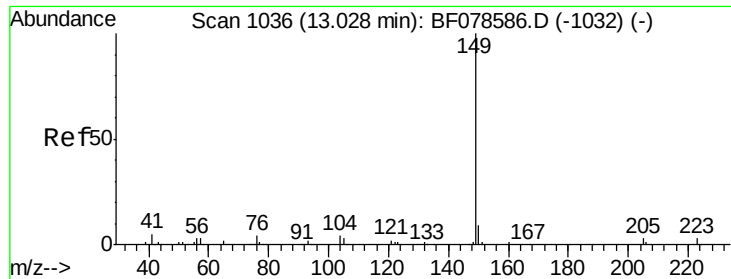
Tgt Ion:178 Resp: 81093
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.4 23.0
 179 15.7 12.2 18.2



#71
 Anthracene
 Concen: 2.67 ng
 RT: 13.97 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

Tgt Ion:178 Resp: 17320
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.8 22.2
 179 14.6 12.4 18.6

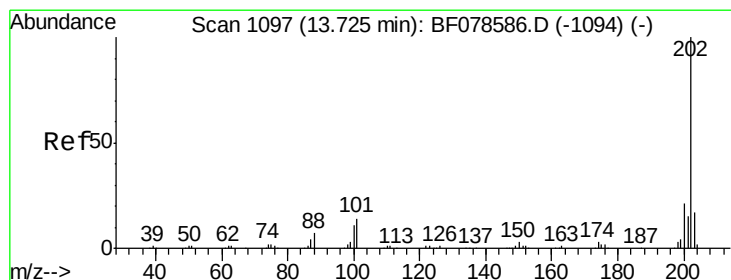
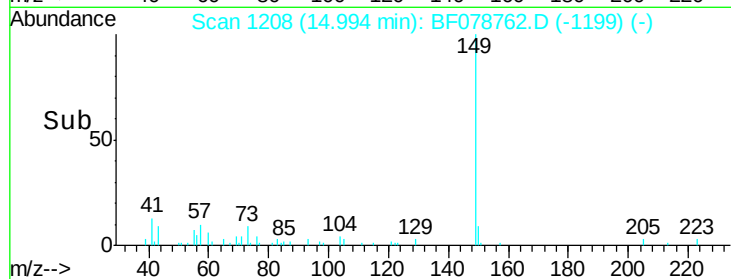
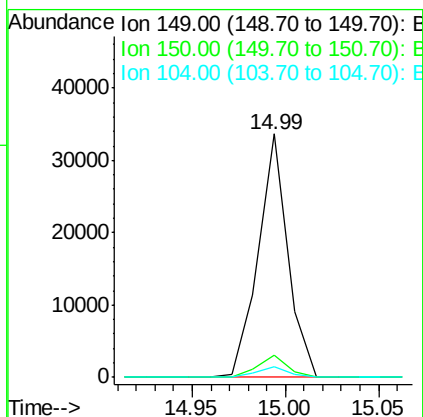
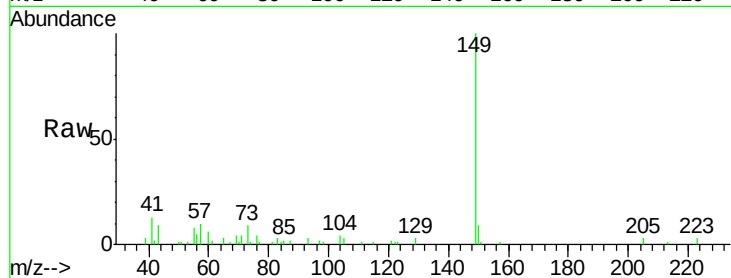




#73
Di-n-butylphthalate
Concen: 5.43 ng
RT: 14.99 min Scan# 1208
Delta R.T. -0.00 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

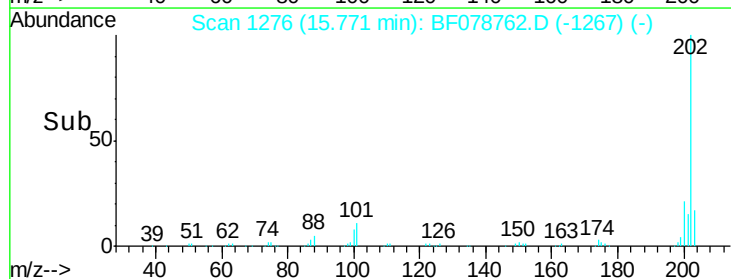
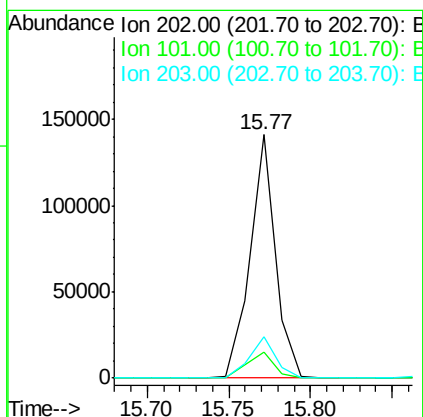
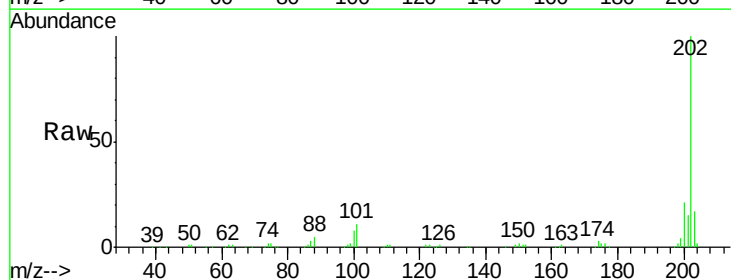
Instrument :
BNA_F
ClientSampleId :
SOIL1

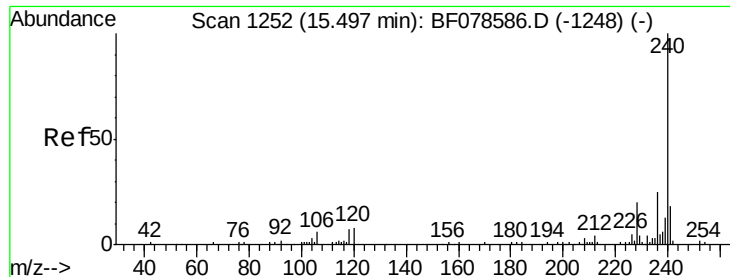
Tgt Ion:149 Resp: 37321
Ion Ratio Lower Upper
149 100
150 9.1 7.1 10.7
104 4.2 3.8 5.6



#74
Fluoranthene
Concen: 21.99 ng
RT: 15.77 min Scan# 1276
Delta R.T. -0.00 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

Tgt Ion:202 Resp: 152398
Ion Ratio Lower Upper
202 100
101 10.7 0.0 35.2
203 17.2 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.71 min Scan# 1446

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

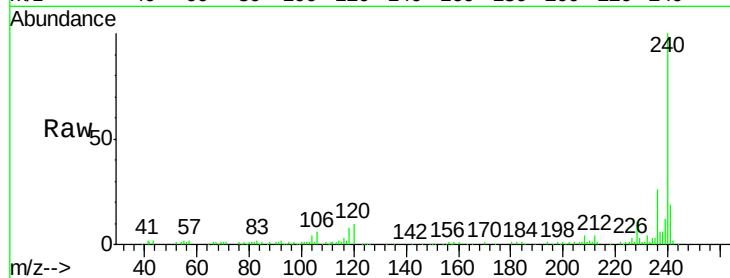
Tgt Ion:240 Resp: 124456

Ion Ratio Lower Upper

240 100

120 10.0 7.1 10.7

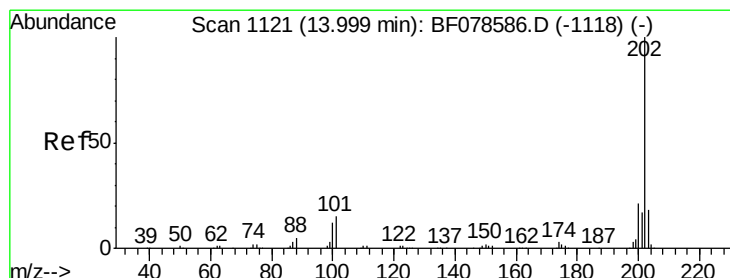
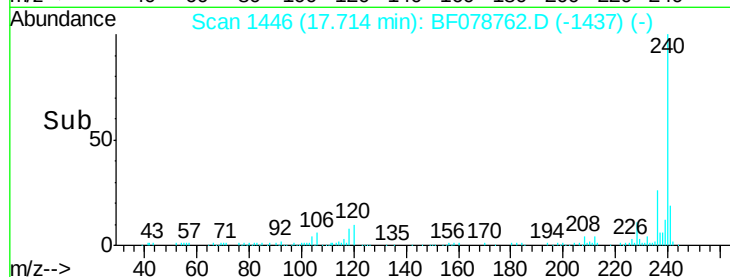
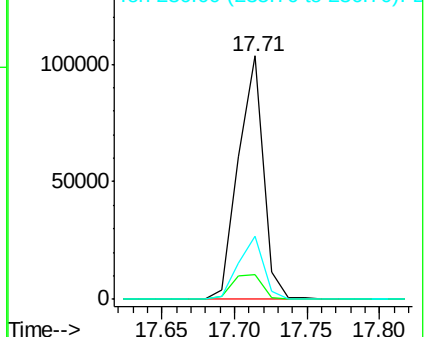
236 26.2 21.4 32.2



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: 18.30 ng

RT: 16.08 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

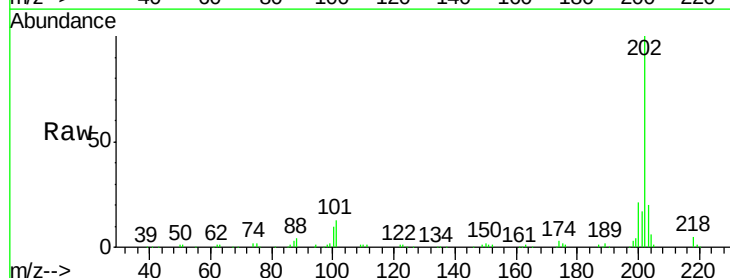
Tgt Ion:202 Resp: 142956

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

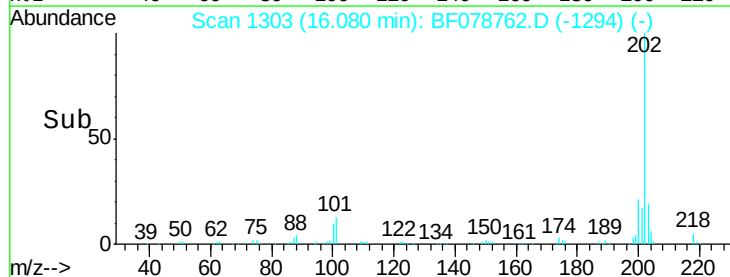
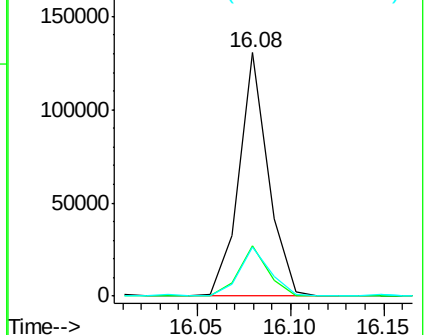
203 20.2 13.8 20.6

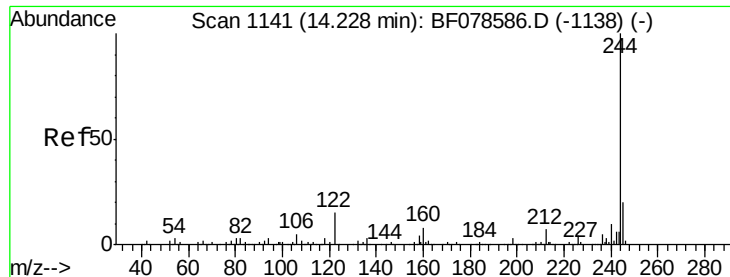


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 51.26 ng

RT: 16.38 min Scan# 1329

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

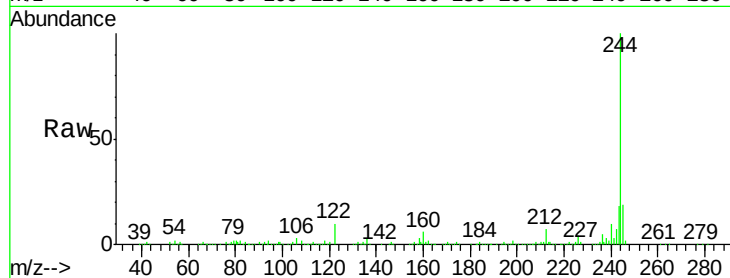
Tgt Ion:244 Resp: 282330

Ion Ratio Lower Upper

244 100

212 6.5 5.0 7.4

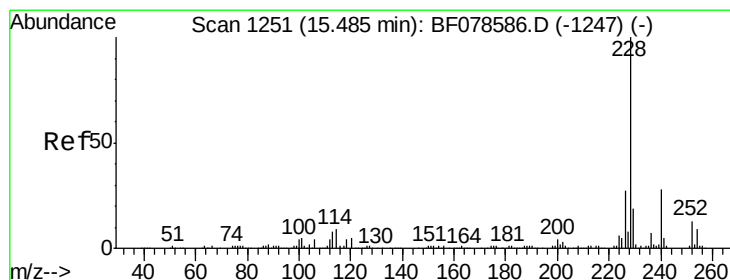
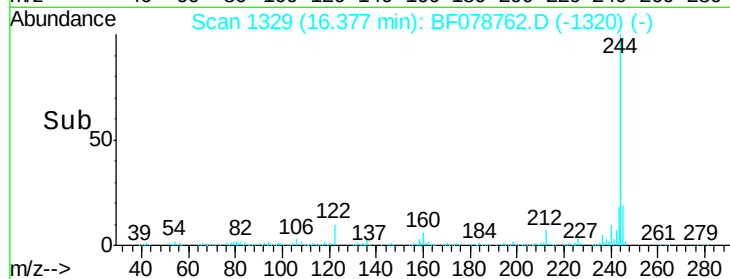
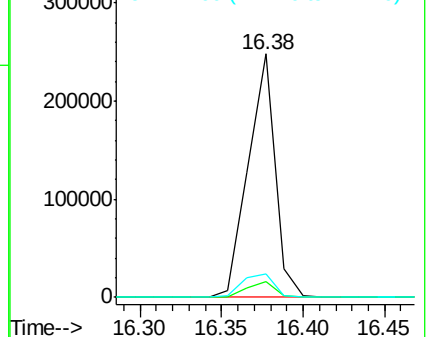
122 9.7 7.1 10.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 10.55 ng

RT: 17.70 min Scan# 1445

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

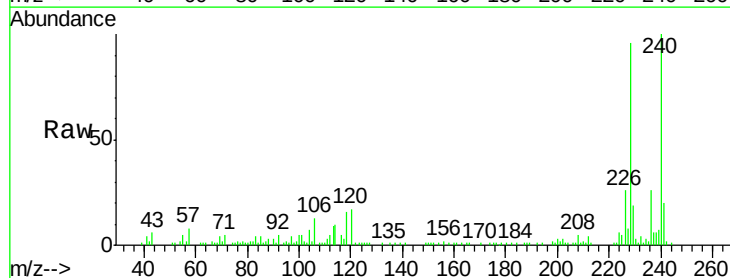
Tgt Ion:228 Resp: 78098

Ion Ratio Lower Upper

228 100

226 26.9 21.3 31.9

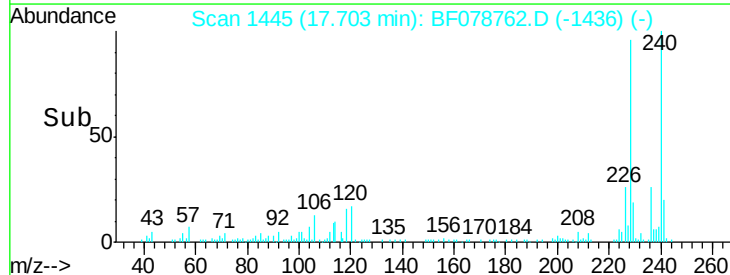
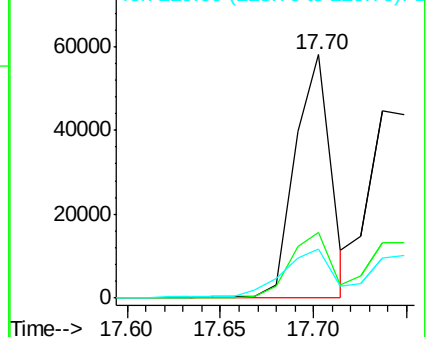
229 20.3 15.4 23.2

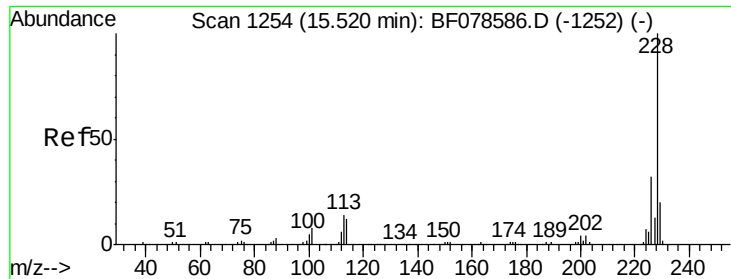


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.05 ng

RT: 17.74 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1

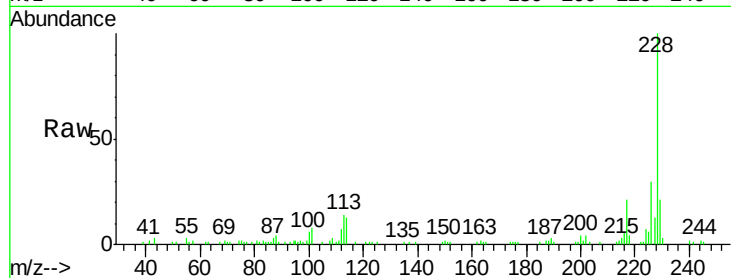
Tgt Ion:228 Resp: 62996

Ion Ratio Lower Upper

228 100

226 29.9 24.2 36.4

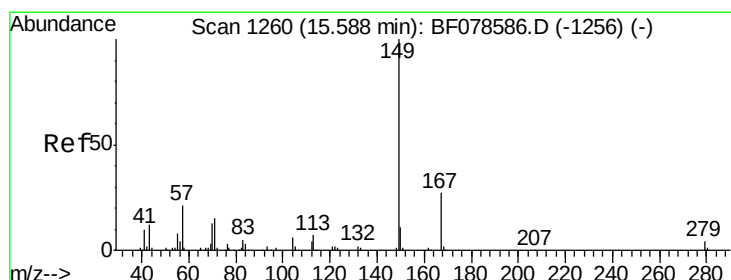
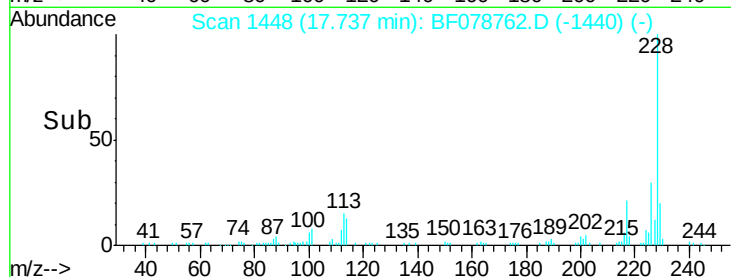
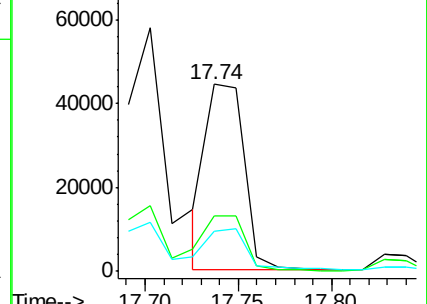
229 21.3 15.8 23.8



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: 23.71 ng

RT: 17.85 min Scan# 1458

Delta R.T. -0.00 min

Lab File: BF078762.D

Acq: 23 Apr 2015 22:11

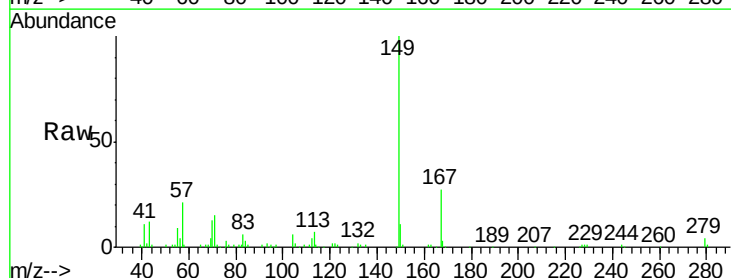
Tgt Ion:149 Resp: 110735

Ion Ratio Lower Upper

149 100

167 27.1 22.2 33.2

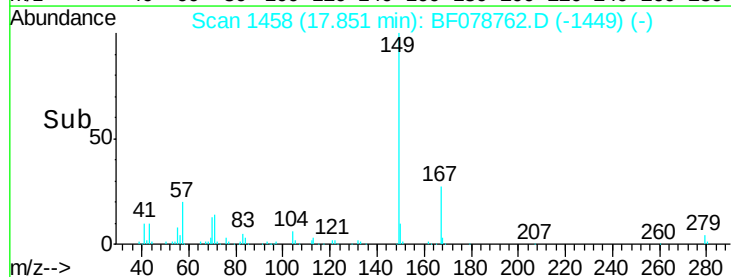
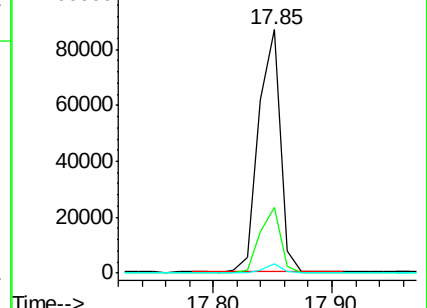
279 3.8 3.2 4.8

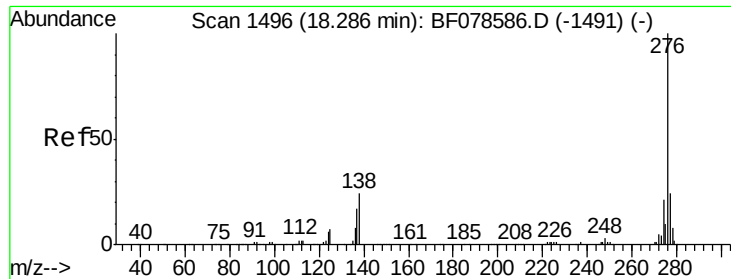


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

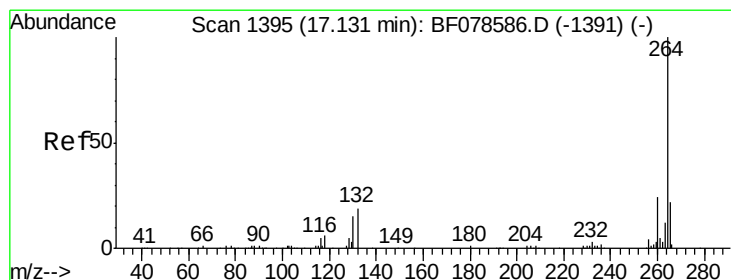
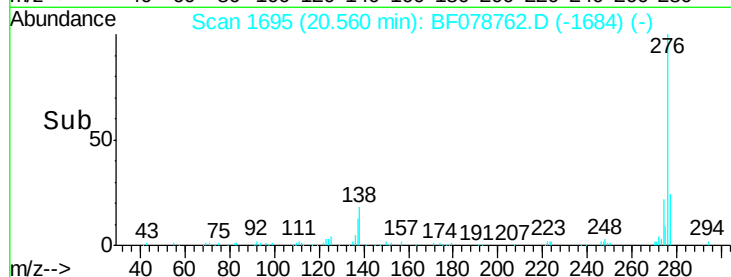
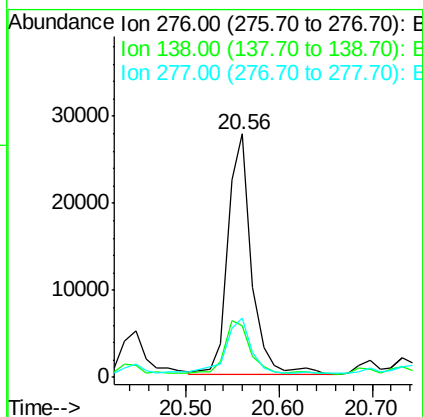
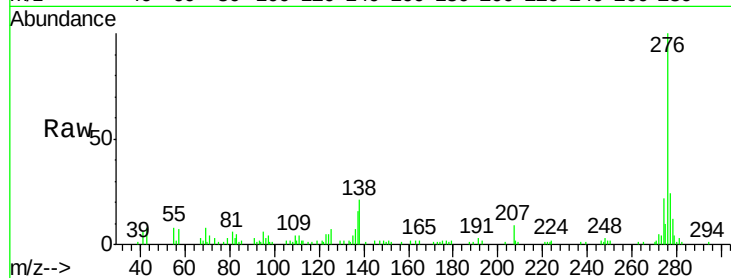




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.10 ng
 RT: 20.56 min Scan# 1695
 Delta R.T. -0.17 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

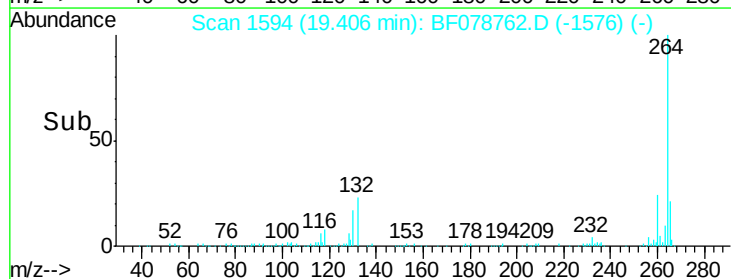
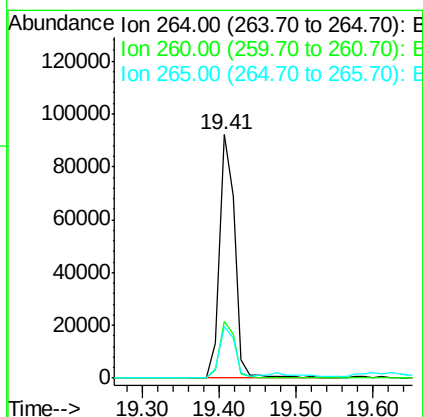
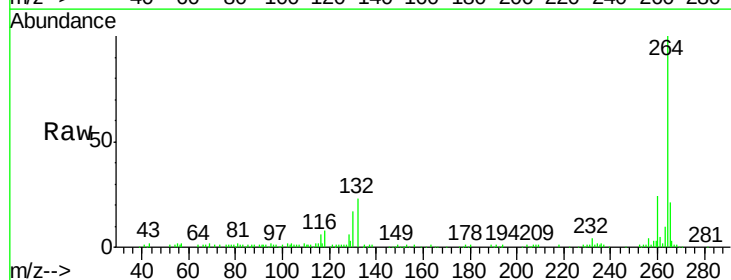
Instrument :
 BNA_F
 ClientSampleId :
 SOIL1

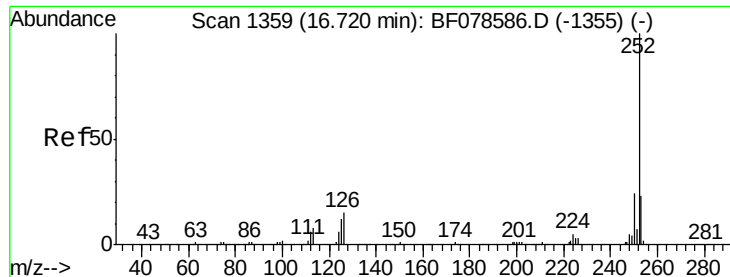
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	16.9	25.3
277	23.5	15.8	23.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 19.41 min Scan# 1594
 Delta R.T. -0.09 min
 Lab File: BF078762.D
 Acq: 23 Apr 2015 22:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	27.8
265	21.0	17.0	25.6

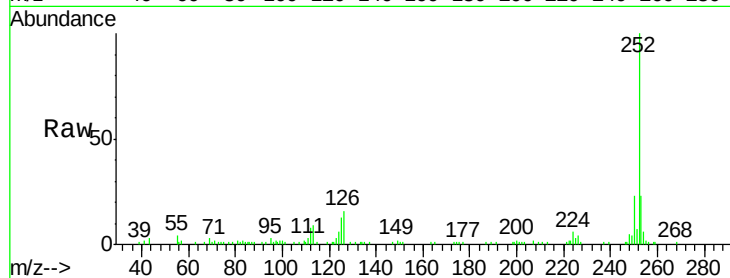




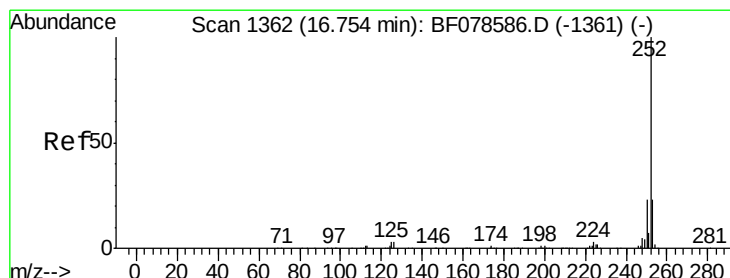
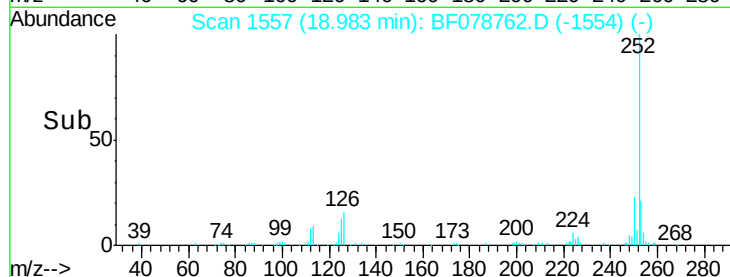
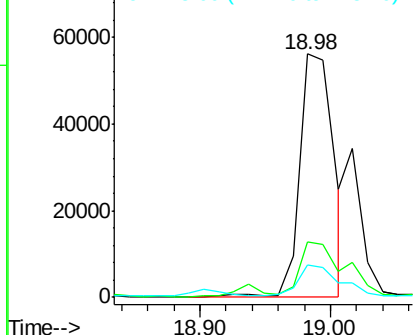
#87
Benzo(b)fluoranthene
Concen: 12.73 ng
RT: 18.98 min Scan# 1557
Delta R.T. -0.07 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

Instrument :
BNA_F
ClientSampleId :
SOIL1

Tgt Ion:252 Resp: 101339
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 13.2 7.0 10.4#

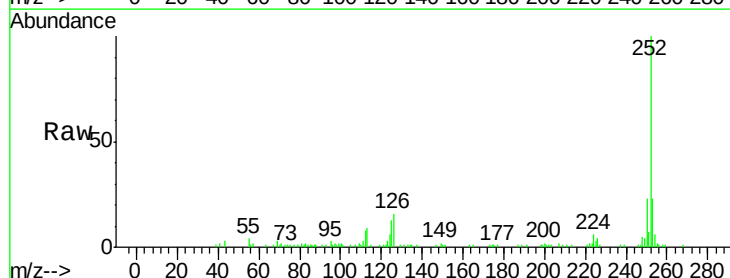


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

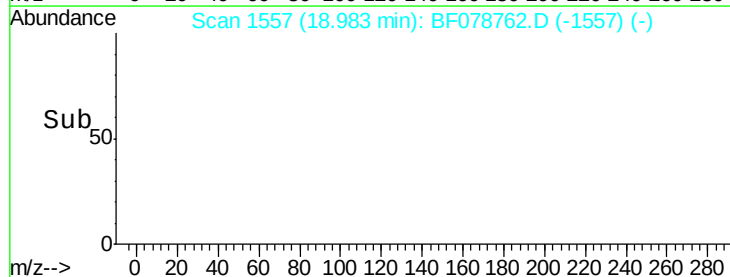
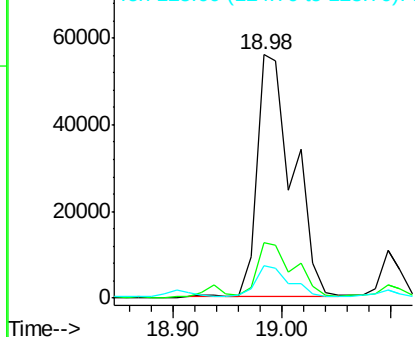


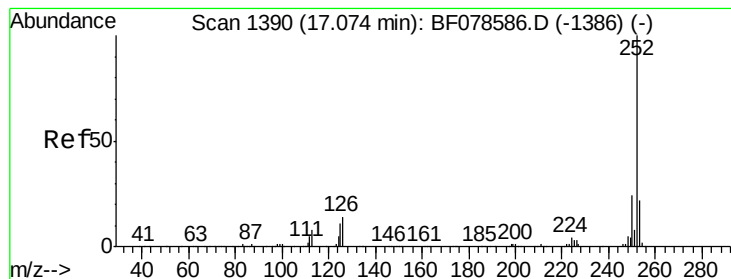
#88
Benzo(k)fluoranthene
Concen: 18.17 ng
RT: 18.98 min Scan# 1557
Delta R.T. -0.10 min
Lab File: BF078762.D
Acq: 23 Apr 2015 22:11

Tgt Ion:252 Resp: 128551
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 13.2 11.6 17.4



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





#89

Benzo(a)pyrene

Concen: 9.75 ng

RT: 19.35 min Scan# 1589

Delta R.T. -0.08 min

Lab File: BF078762.D

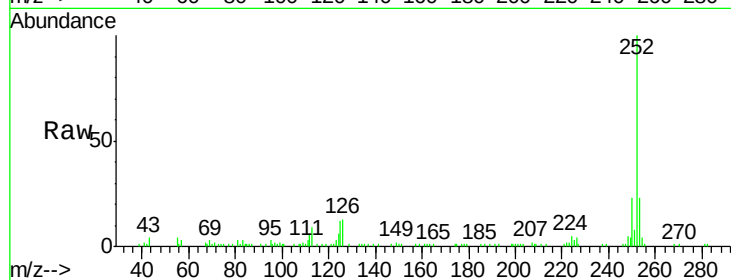
Acq: 23 Apr 2015 22:11

Instrument :

BNA_F

ClientSampleId :

SOIL1



Tgt Ion:	252	Resp:	67727
Ion	Ratio	Lower	Upper
252	100		
253	23.1	16.8	25.2
125	11.8	7.4	11.0

