

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111616\
 Data File : BF091189.D
 Acq On : 16 Nov 2016 15:48
 Operator : UM/SJ
 Sample : H5671-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RER-TOPSOIL

Quant Time: Nov 16 23:51:21 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 08 12:59:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	215439	20.00	ng	-0.05
21) Naphthalene-d8	7.90	136	903767	20.00	ng	-0.05
38) Acenaphthene-d10	9.66	164	440845	20.00	ng	-0.03
63) Phenanthrene-d10	11.14	188	669596	20.00	ng	-0.03
75) Chrysene-d12	13.78	240	421142	20.00	ng	-0.03
86) Perylene-d12	15.15	264	373911	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	1385180	106.19	ng	-0.03
7) Phenol-d6	6.28	99	1766424	99.77	ng	-0.03
23) Nitrobenzene-d5	7.20	82	1293485	78.07	ng	-0.05
41) 2,4,6-Tribromophenol	10.45	330	426884	107.11	ng	-0.03
44) 2-Fluorobiphenyl	8.99	172	1707488	66.68	ng	-0.05
78) Terphenyl-d14	12.73	244	1328484	78.72	ng	-0.03

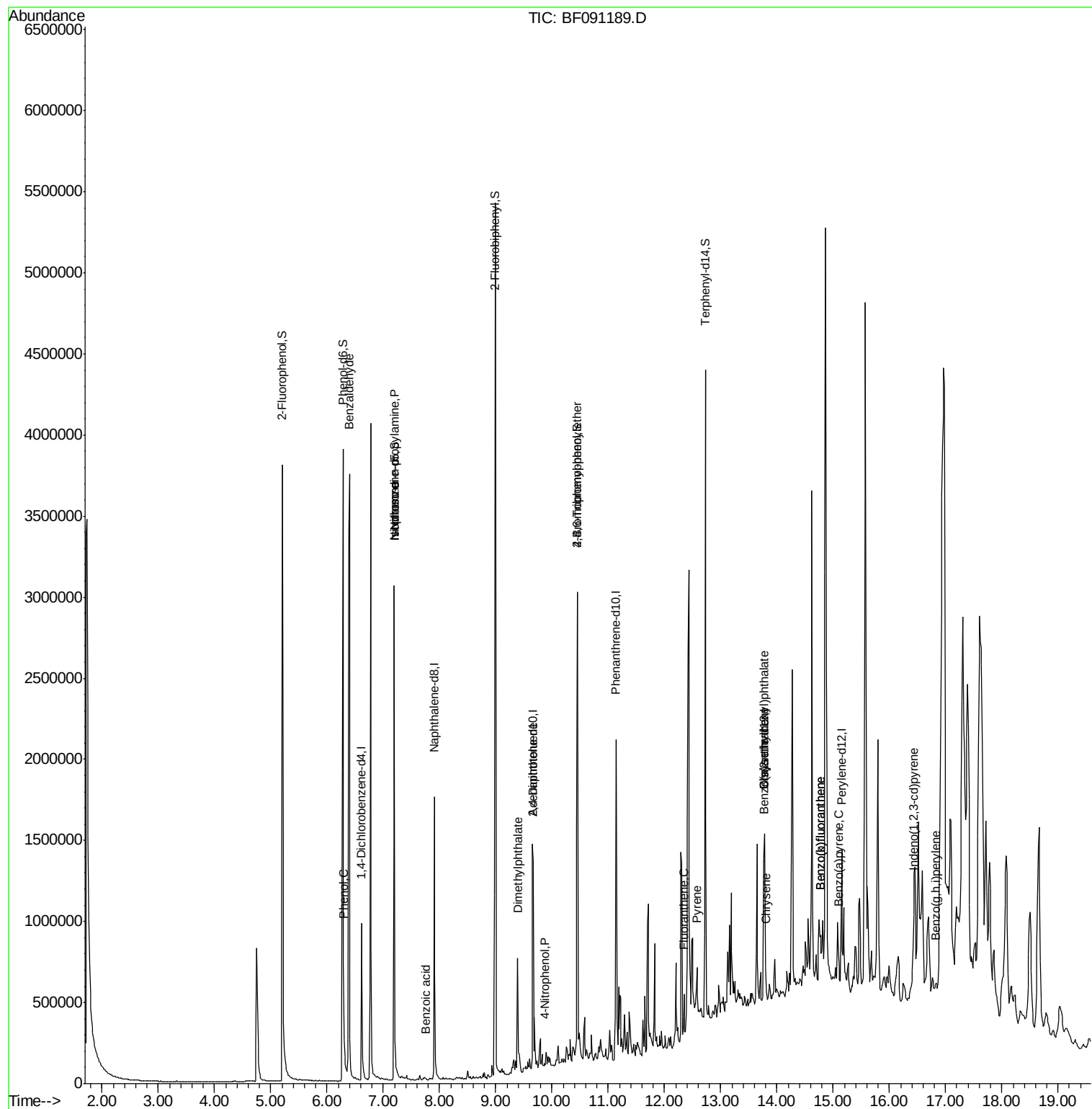
Target Compounds						Qvalue
9) Benzaldehyde	6.40	77	35605	3.62	ng	93
10) Phenol	6.29	94	99488	5.08	ng	# 59
19) n-Nitroso-di-n-propylamine	7.20	70	178232	14.53	ng	# 76
25) Isophorone	7.20	82	1272477	39.86	ng	# 67
32) Benzoic acid	7.76	122	4656	5.49	ng	# 72
49) Dimethylphthalate	9.39	163	269562	9.33	ng	99
55) 4-Nitrophenol	9.87	139	6520	6.97	ng	# 54
56) 2,4-Dinitrotoluene	9.66	165	58790	7.46	ng	# 26
66) 4-Bromophenyl-phenylether	10.45	248	29854	4.29	ng	# 1
74) Fluoranthene	12.35	202	126173	3.42	ng	93
77) Pyrene	12.58	202	107131	3.88	ng	98
80) Benzo(a)anthracene	13.77	228	53698	2.25	ng	98
82) Chrysene	13.80	228	68649	2.91	ng	98
83) Bis(2-ethylhexyl)phthalate	13.78	149	46166	2.59	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.43	276	48699	2.49	ng	95
87) Benzo(b)fluoranthene	14.77	252	143305	5.65	ng	# 87
88) Benzo(k)fluoranthene	14.77	252	143305	6.44	ng	# 90
89) Benzo(a)pyrene	15.09	252	56933	2.58	ng	# 77
91) Benzo(g,h,i)perylene	16.82	276	42590	2.47	ng	# 88

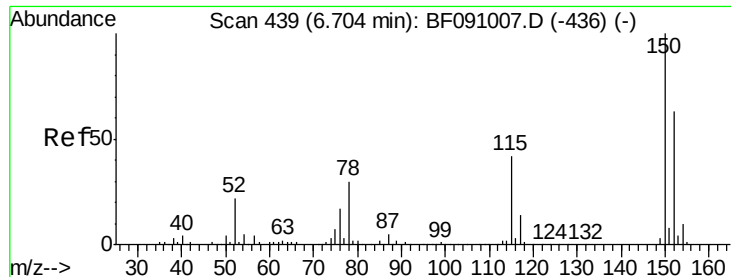
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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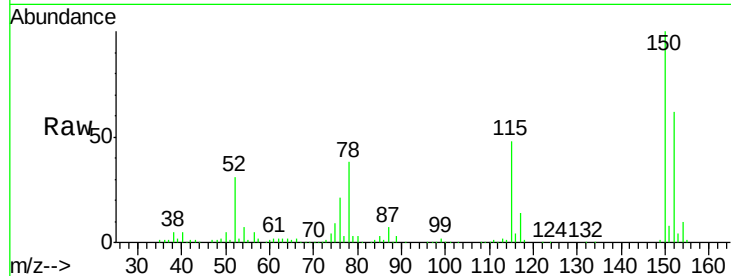


#1

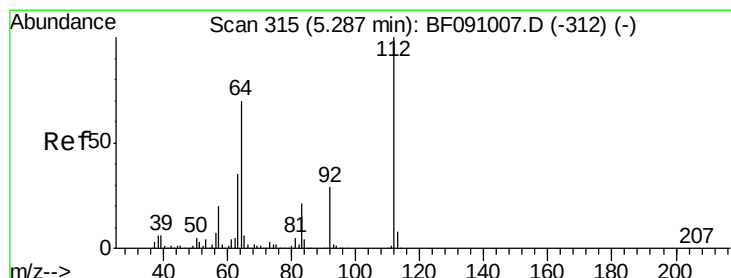
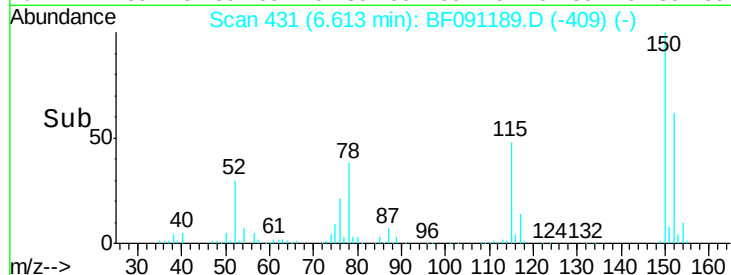
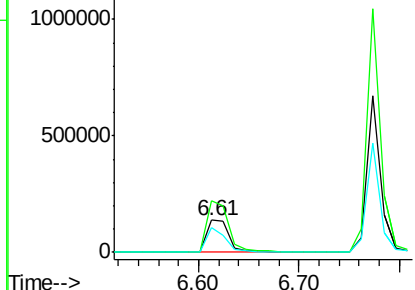
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.61 min Scan# 431
Delta R.T. -0.05 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Instrument :
BNA_F
ClientSampleId :
RER-TOPSOIL

Tgt Ion:152 Resp: 215439
Ion Ratio Lower Upper
152 100
150 161.7 126.8 190.2
115 77.5 53.3 79.9



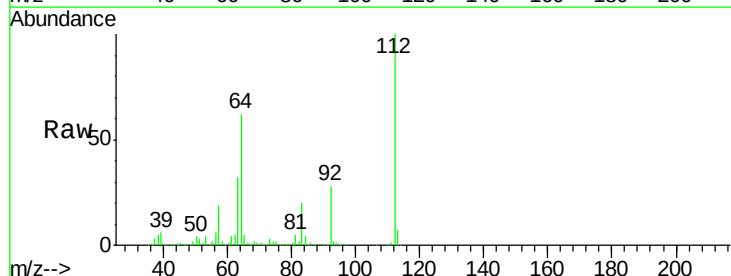
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



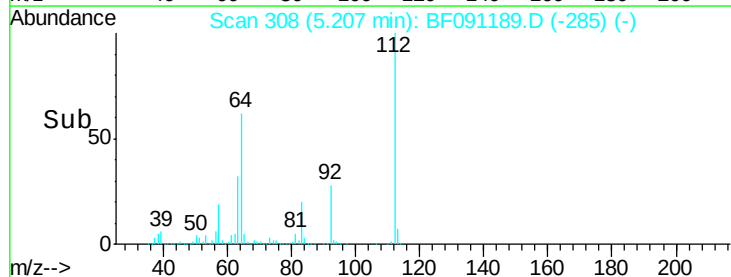
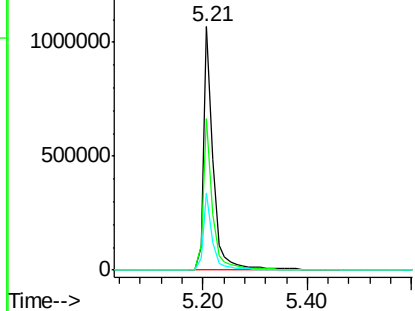
#5

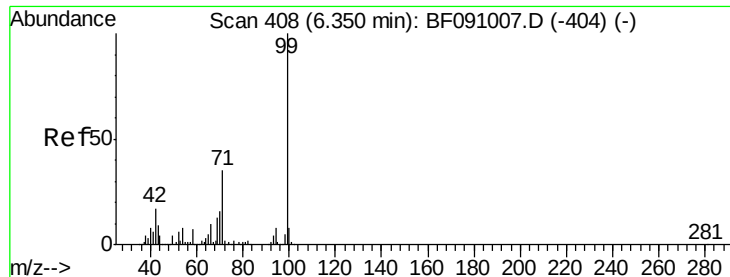
2-Fluorophenol
Concen: 106.19 ng
RT: 5.21 min Scan# 308
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion:112 Resp: 1385180
Ion Ratio Lower Upper
112 100
64 62.4 55.8 83.6
63 32.0 28.0 42.0



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





#7

Phenol-d6

Concen: 99.77 ng

RT: 6.28 min Scan# 402

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

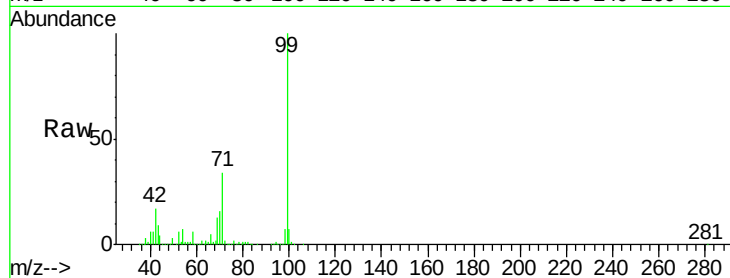
Tgt Ion: 99 Resp: 1766424

Ion Ratio Lower Upper

99 100

42 16.6 13.9 20.9

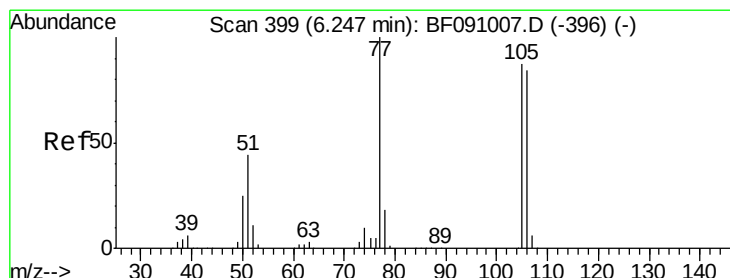
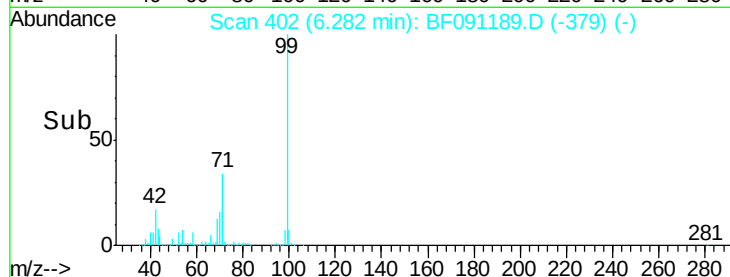
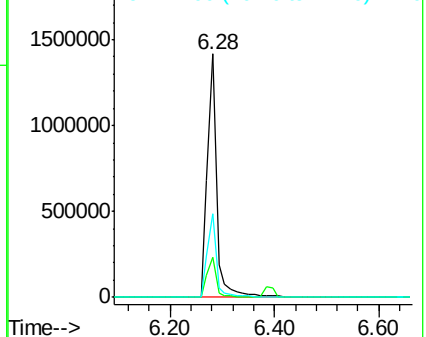
71 34.1 27.8 41.8



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



#9

Benzaldehyde

Concen: 3.62 ng

RT: 6.40 min Scan# 412

Delta R.T. 0.19 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

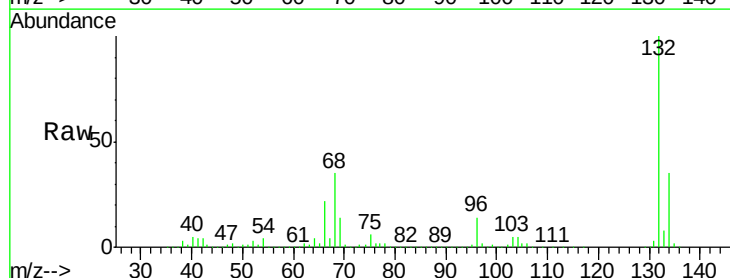
Tgt Ion: 77 Resp: 35605

Ion Ratio Lower Upper

77 100

105 84.9 66.8 106.8

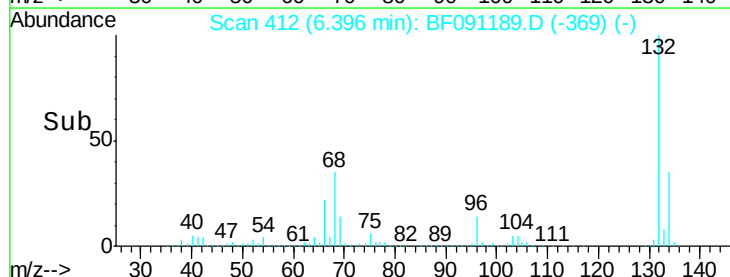
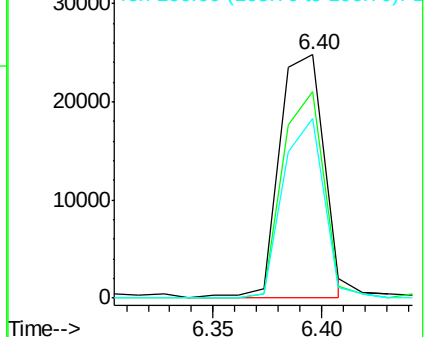
106 73.8 64.0 104.0

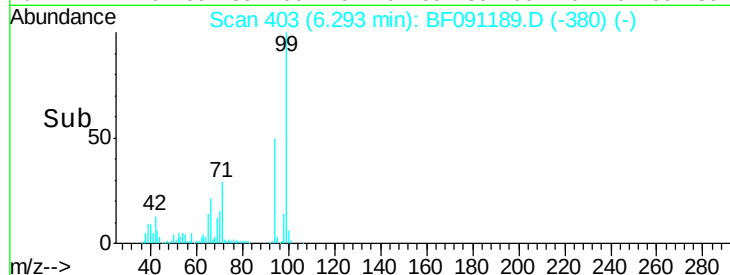
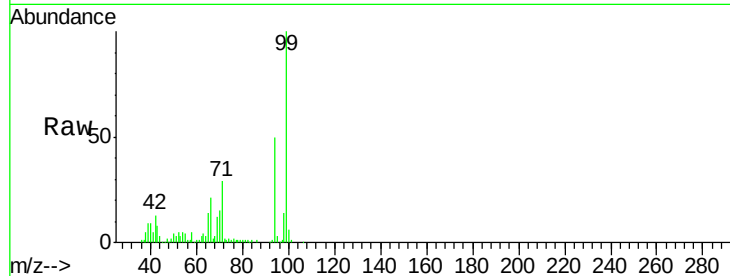
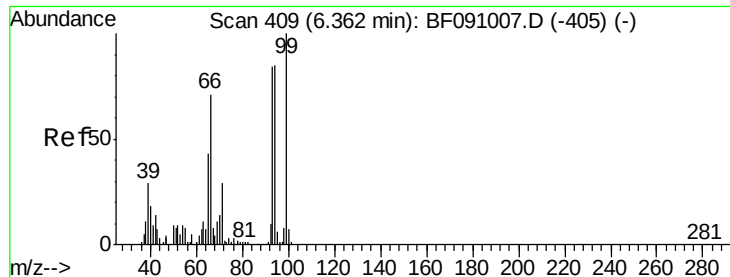


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 5.08 ng

RT: 6.29 min Scan# 403

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

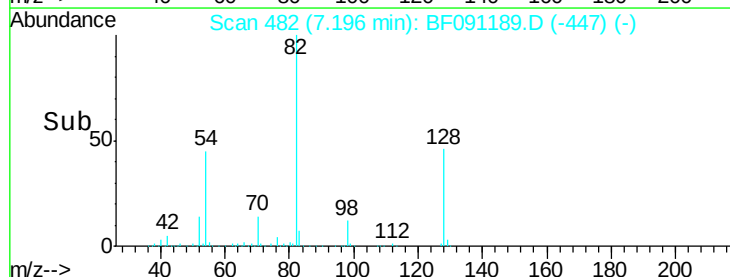
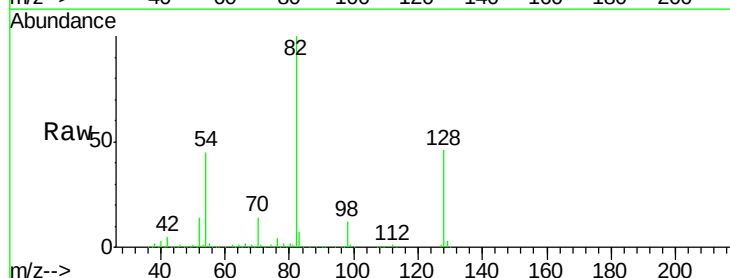
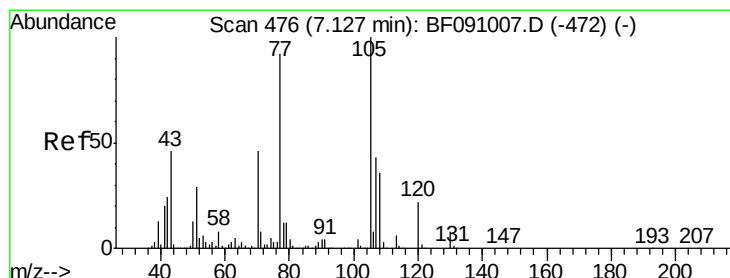
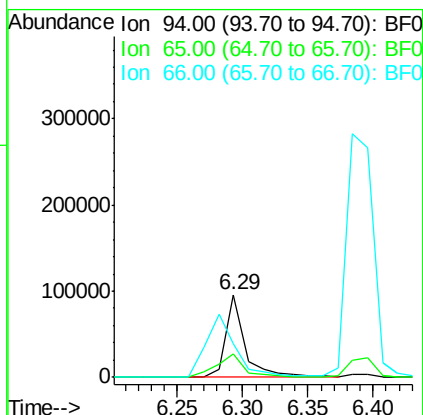
Tgt Ion: 94 Resp: 99488

Ion Ratio Lower Upper

94 100

65 28.0 30.4 70.4#

66 41.1 62.9 102.9#



#19

n-Nitroso-di-n-propylamine

Concen: 14.53 ng

RT: 7.20 min Scan# 482

Delta R.T. 0.10 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Tgt Ion: 70 Resp: 178232

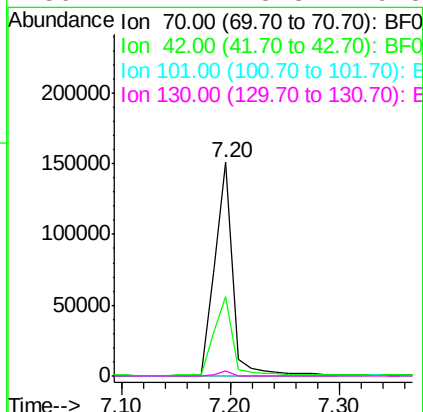
Ion Ratio Lower Upper

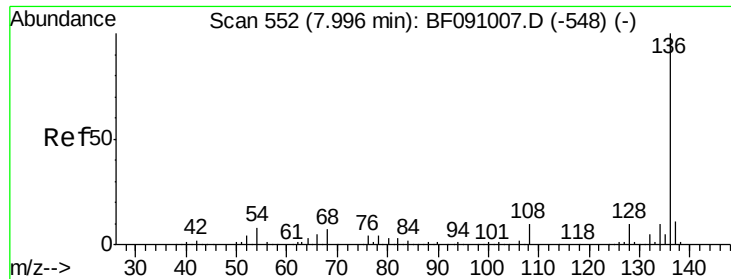
70 100

42 37.4 41.7 62.5#

101 0.0 6.7 10.1#

130 2.2 13.8 20.8#

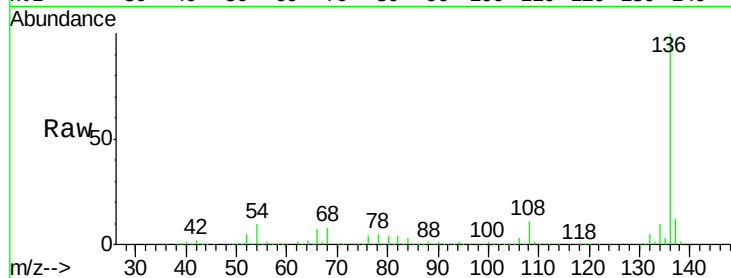




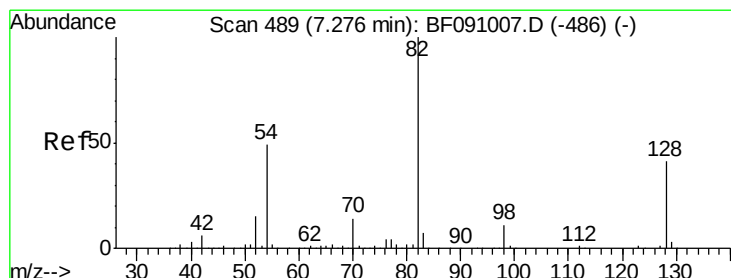
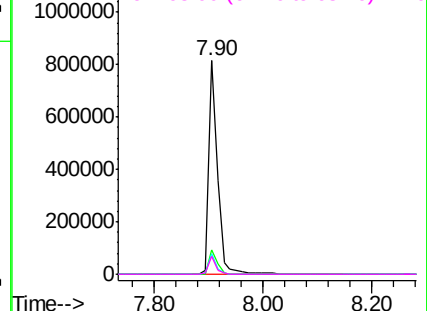
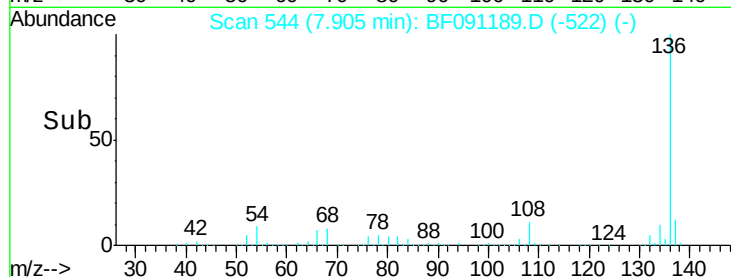
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.90 min Scan# 544
Delta R.T. -0.05 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Instrument :
BNA_F
ClientSampleId :
RER-TOPSOIL

Tgt Ion:	136	Resp:	903767
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	9.6	6.2	9.2#
68	8.3	5.5	8.3#

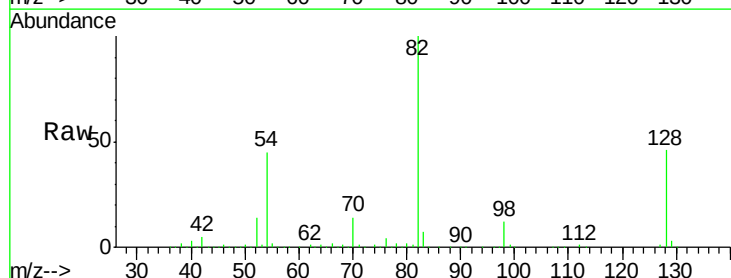


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

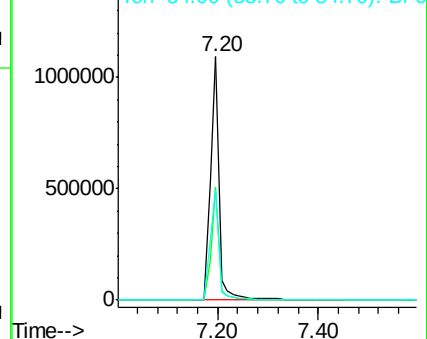
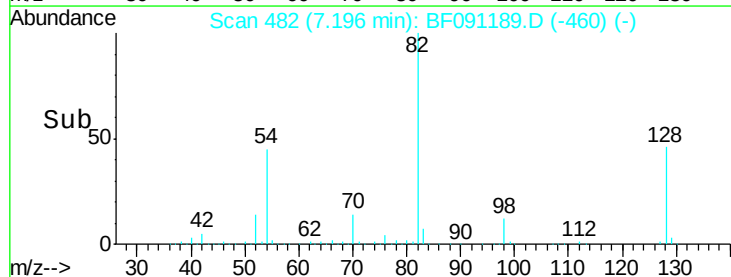


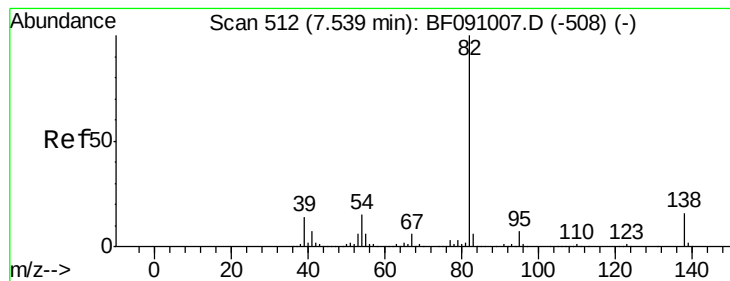
#23
Nitrobenzene-d5
Concen: 78.07 ng
RT: 7.20 min Scan# 482
Delta R.T. -0.05 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion:	82	Resp:	1293485
Ion	Ratio	Lower	Upper
82	100		
128	46.4	32.4	48.6
54	45.3	39.2	58.8



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





#25

Isophorone

Concen: 39.86 ng

RT: 7.20 min Scan# 482

Delta R.T. -0.30 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

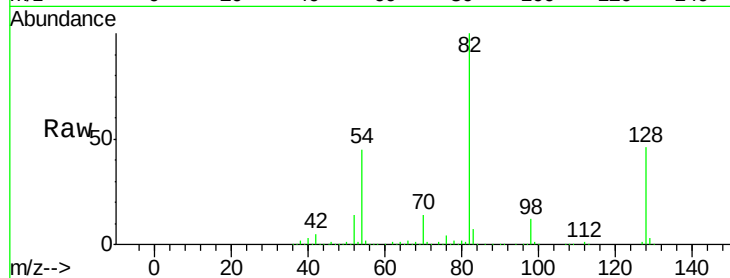
Tgt Ion: 82 Resp: 1272477

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

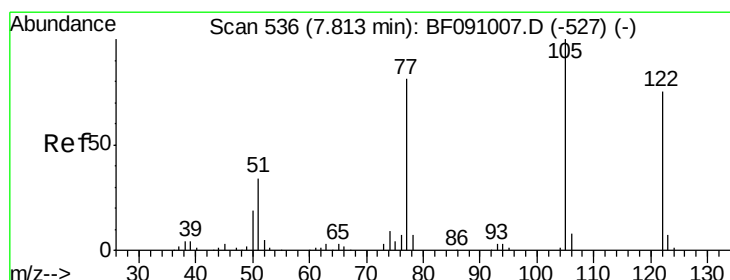
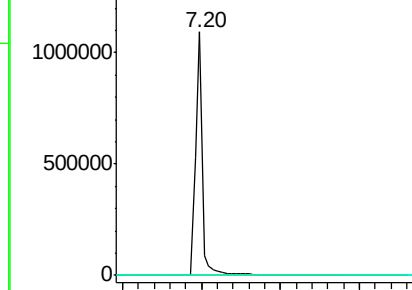
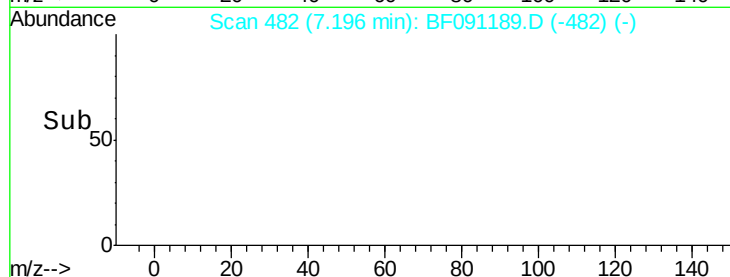
138 0.0 13.0 19.4#



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



#32

Benzoic acid

Concen: 5.49 ng

RT: 7.76 min Scan# 531

Delta R.T. -0.02 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

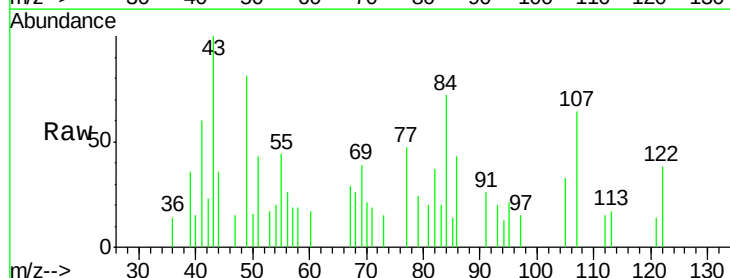
Tgt Ion: 122 Resp: 4656

Ion Ratio Lower Upper

122 100

105 87.6 105.9 145.9#

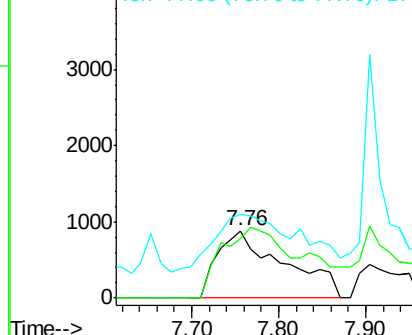
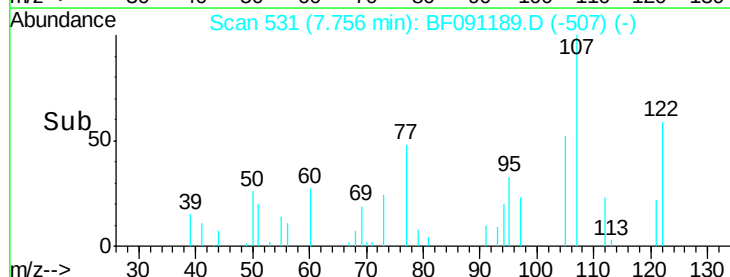
77 124.7 84.0 124.0#

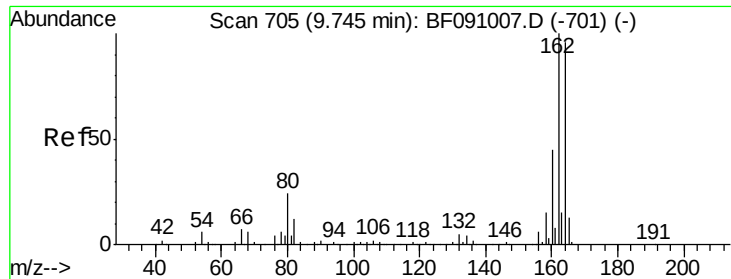


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

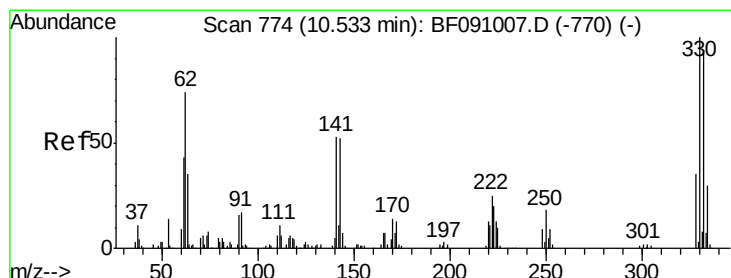
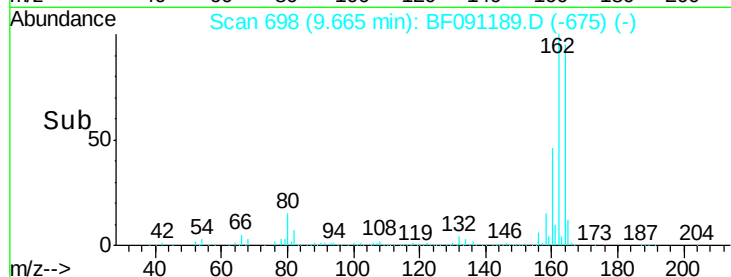
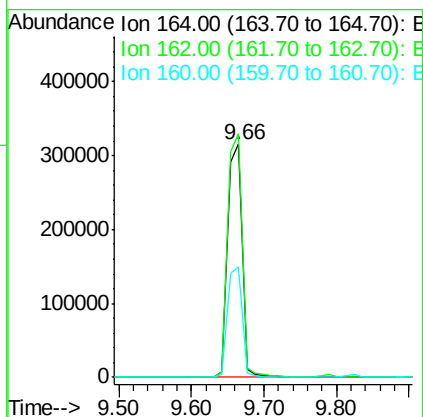
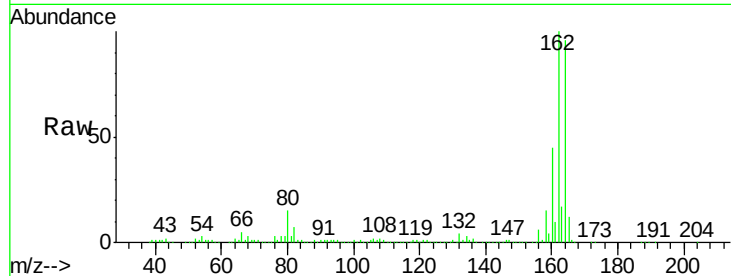




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.66 min Scan# 698
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

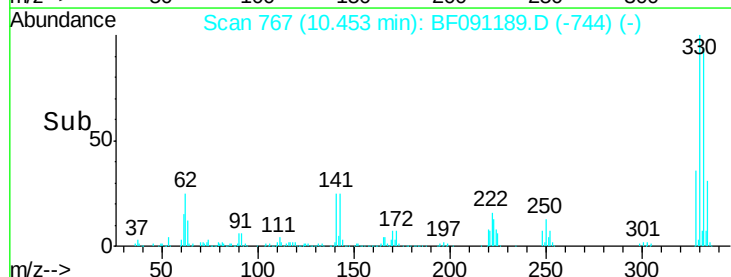
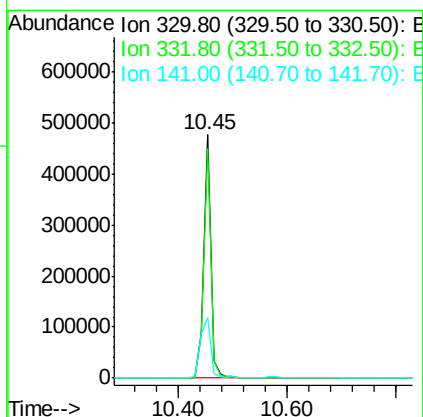
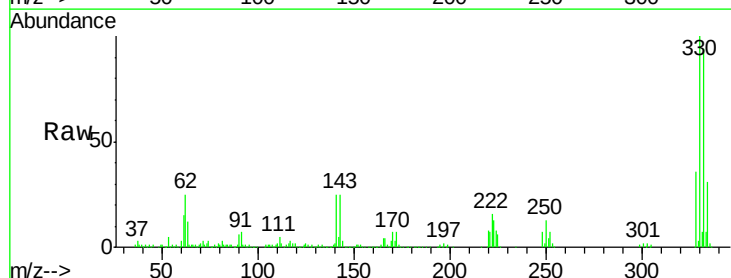
Instrument :
BNA_F
ClientSampleId :
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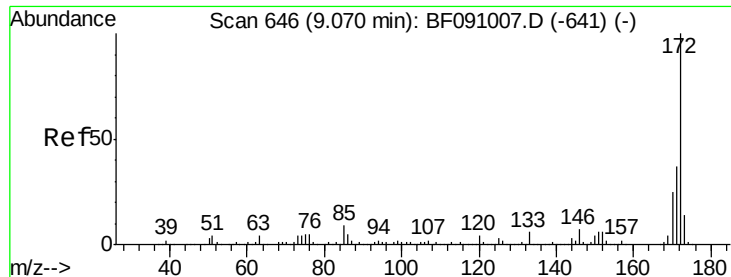
Tgt Ion:164 Resp: 440845
Ion Ratio Lower Upper
164 100
162 104.4 83.6 125.4
160 47.5 37.9 56.9



#41
2,4,6-Tribromophenol
Concen: 107.11 ng
RT: 10.45 min Scan# 767
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion:330 Resp: 426884
Ion Ratio Lower Upper
330 100
332 94.6 75.9 113.9
141 35.6 36.1 54.1#

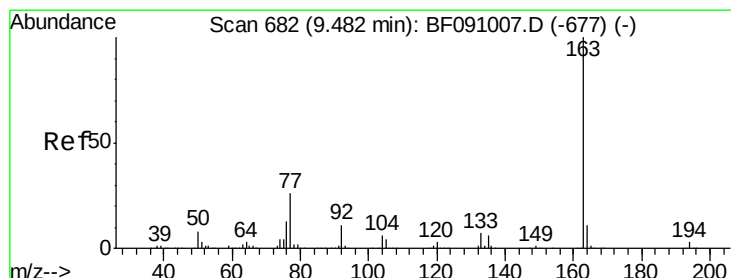
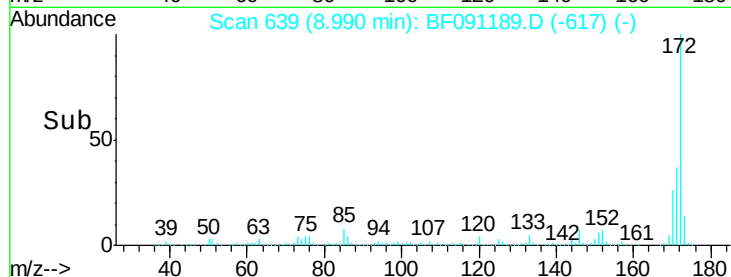
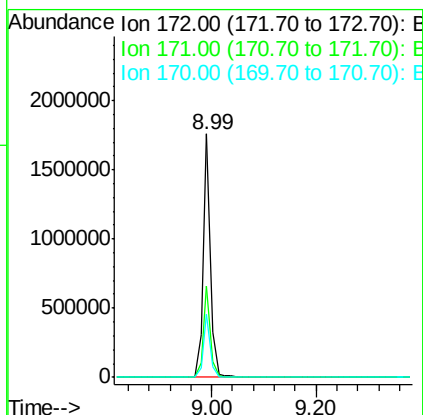
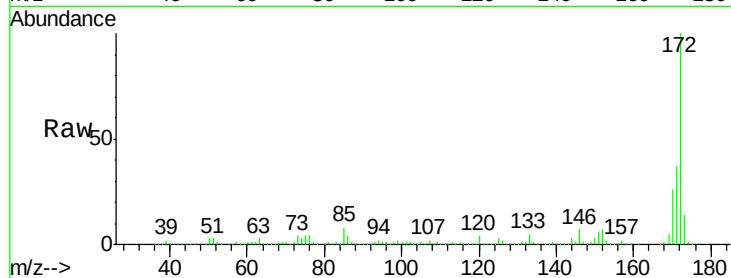




#44
 2-Fluorobiphenyl
 Concen: 66.68 ng
 RT: 8.99 min Scan# 639
 Delta R.T. -0.05 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

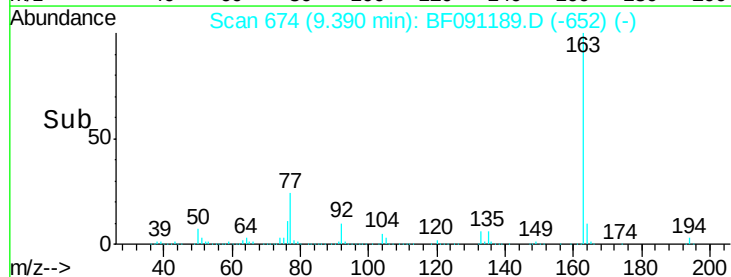
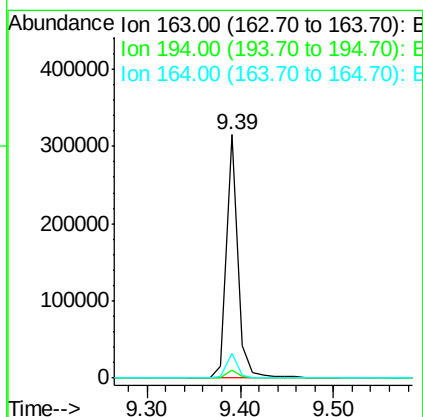
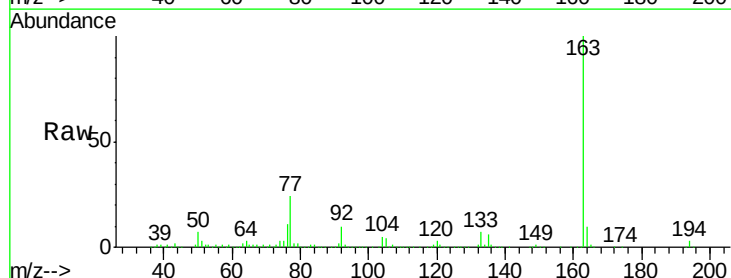
Instrument :
 BNA_F
 ClientSampleId :
 RER-TOPSOIL

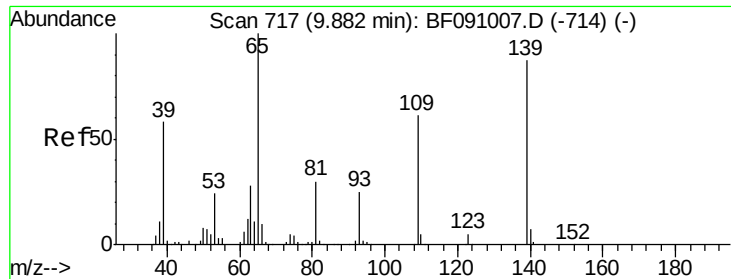
Tgt Ion:172 Resp: 1707488
 Ion Ratio Lower Upper
 172 100
 171 37.5 29.8 44.6
 170 25.7 20.3 30.5



#49
 Dimethylphthalate
 Concen: 9.33 ng
 RT: 9.39 min Scan# 674
 Delta R.T. -0.05 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

Tgt Ion:163 Resp: 269562
 Ion Ratio Lower Upper
 163 100
 194 3.1 2.6 4.0
 164 10.3 8.7 13.1

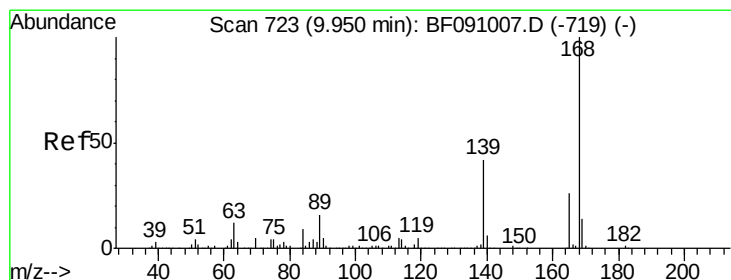
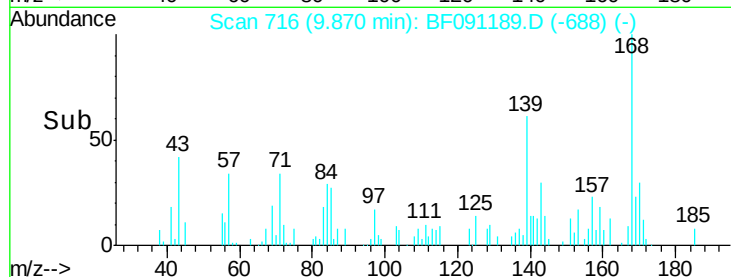
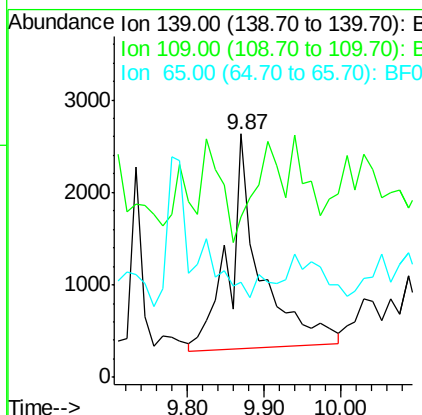
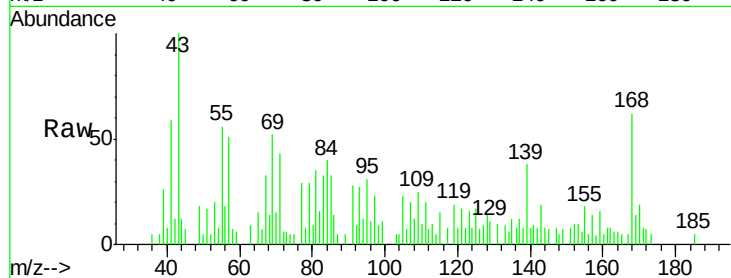




#55
4-Nitrophenol
Concen: 6.97 ng
RT: 9.87 min Scan# 716
Delta R.T. 0.02 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

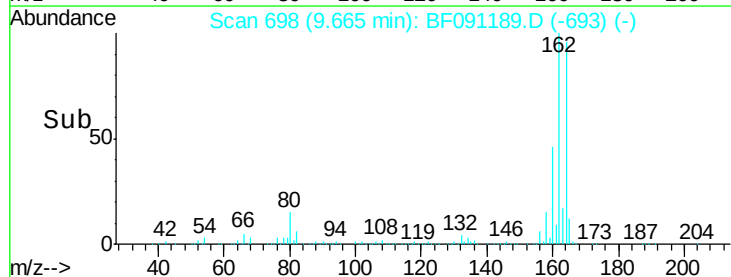
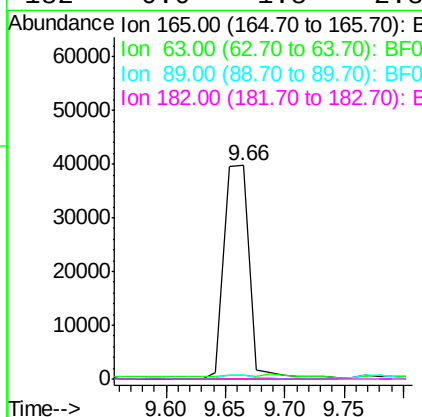
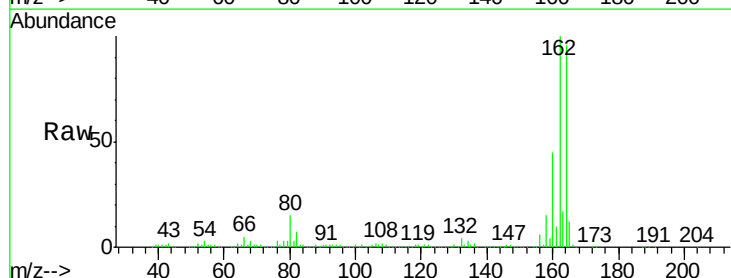
Instrument :
BNA_F
ClientSampleId :
RER-TOPSOIL

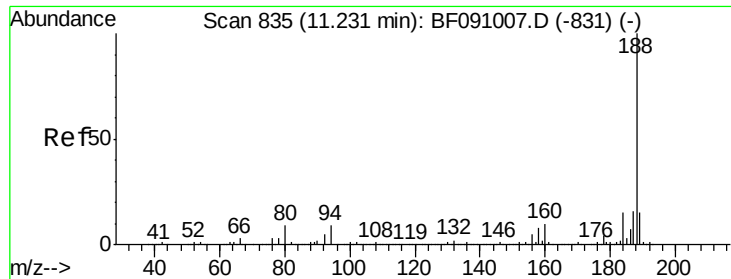
Tgt Ion:139 Resp: 6520
Ion Ratio Lower Upper
139 100
109 66.0 50.5 90.5
65 39.3 97.1 137.1#



#56
2,4-Dinitrotoluene
Concen: 7.46 ng
RT: 9.66 min Scan# 698
Delta R.T. -0.24 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion:165 Resp: 58790
Ion Ratio Lower Upper
165 100
63 1.5 38.7 58.1#
89 1.5 50.6 76.0#
182 0.0 1.8 2.8#

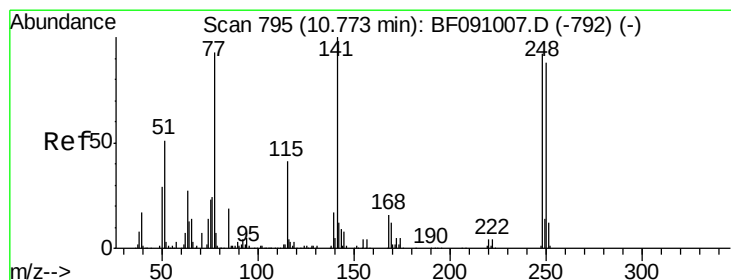
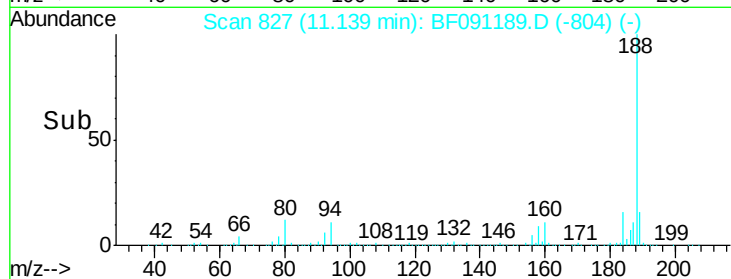
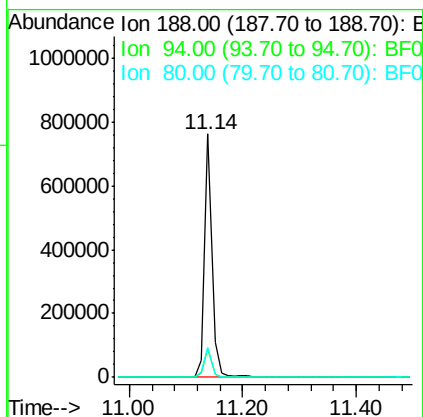
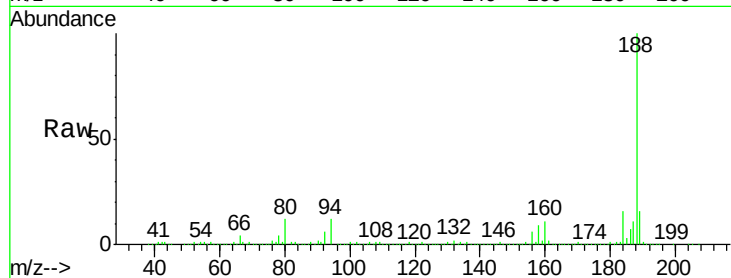




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.14 min Scan# 827
 Delta R.T. -0.03 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

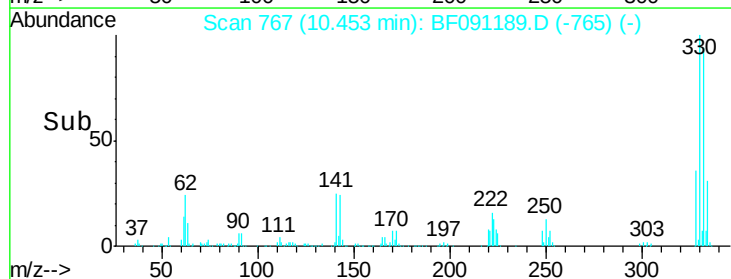
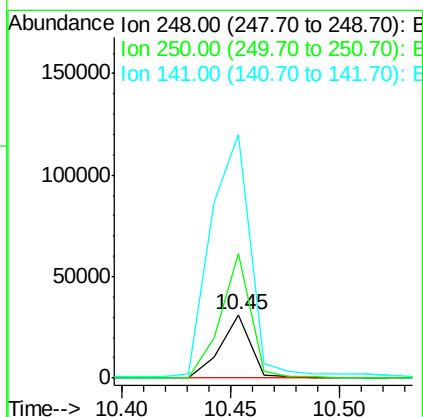
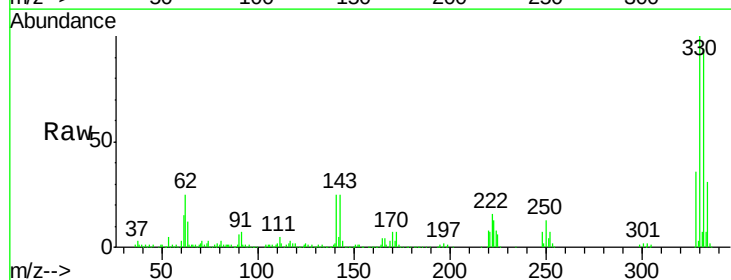
Instrument :
 BNA_F
 ClientSampleId :
 RER-TOPSOIL

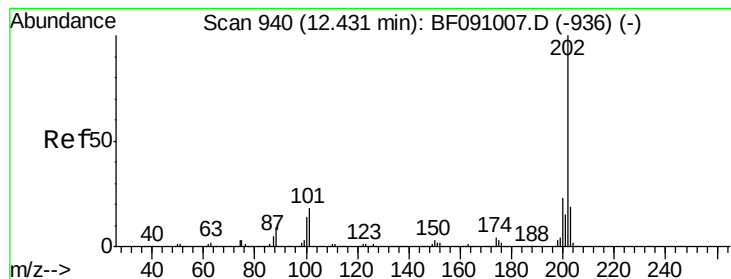
Tgt Ion:188 Resp: 669596
 Ion Ratio Lower Upper
 188 100
 94 11.6 7.0 10.4#
 80 12.3 7.5 11.3#



#66
 4-Bromophenyl-phenylether
 Concen: 4.29 ng
 RT: 10.45 min Scan# 767
 Delta R.T. -0.27 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

Tgt Ion:248 Resp: 29854
 Ion Ratio Lower Upper
 248 100
 250 194.9 76.3 114.5#
 141 381.9 86.8 130.2#





#74

Fluoranthene

Concen: 3.42 ng

RT: 12.35 min Scan# 933

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

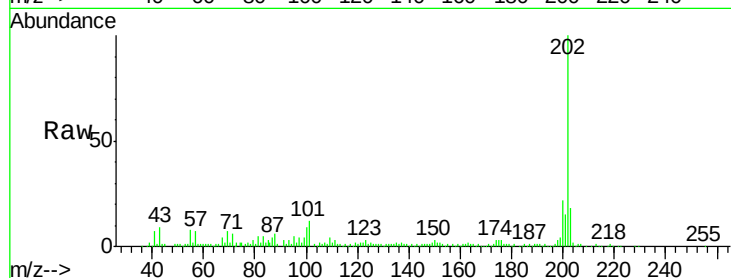
Tgt Ion:202 Resp: 126173

Ion Ratio Lower Upper

202 100

101 12.0 0.0 37.6

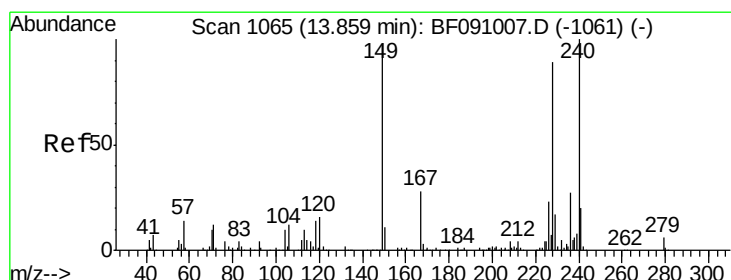
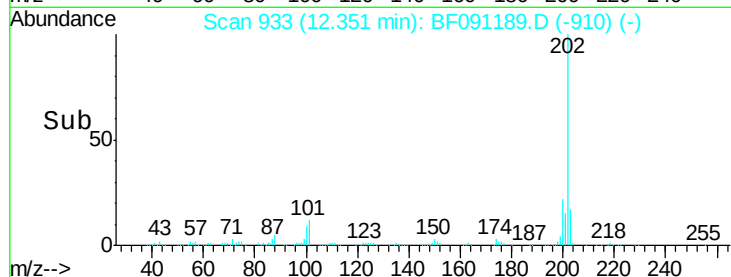
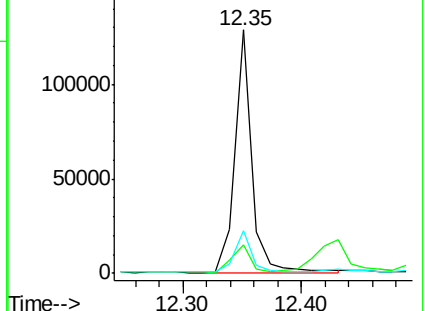
203 17.7 0.0 38.6



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: 13.78 min Scan# 1058

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

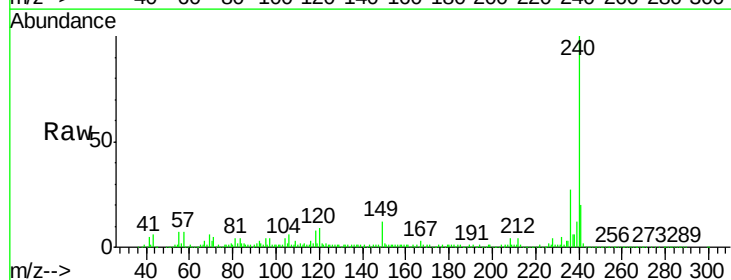
Tgt Ion:240 Resp: 421142

Ion Ratio Lower Upper

240 100

120 9.2 12.9 19.3#

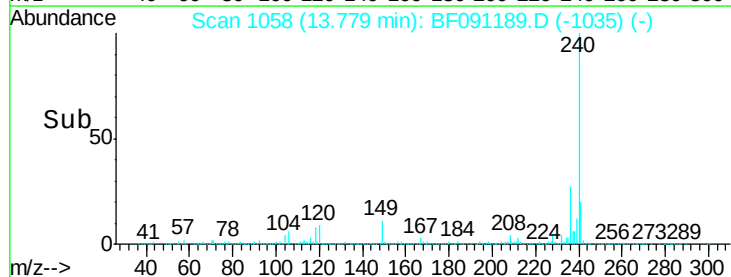
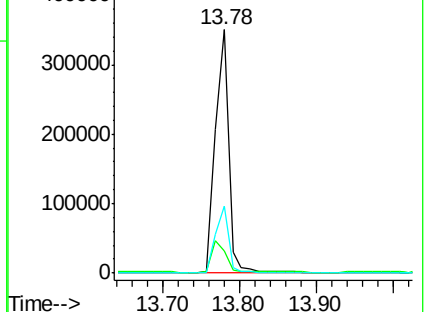
236 27.3 21.9 32.9

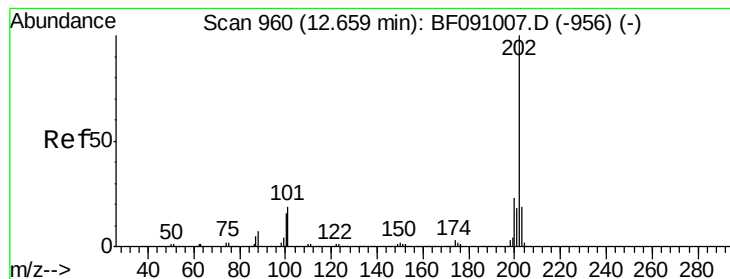


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 3.88 ng

RT: 12.58 min Scan# 953

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

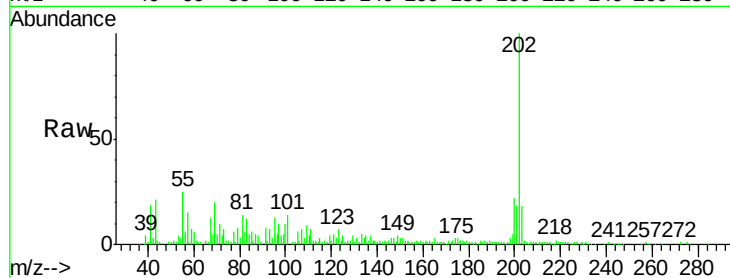
Tgt Ion:202 Resp: 107131

Ion Ratio Lower Upper

202 100

200 22.3 18.4 27.6

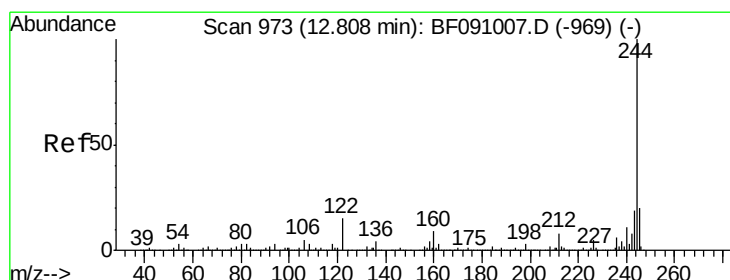
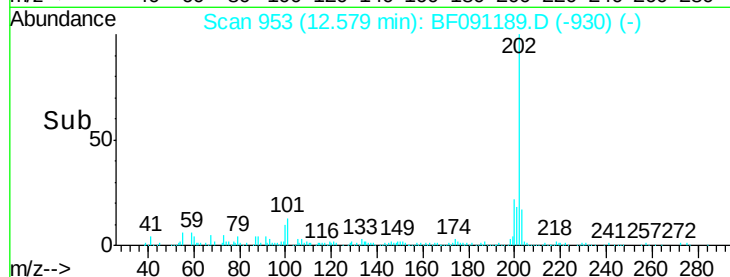
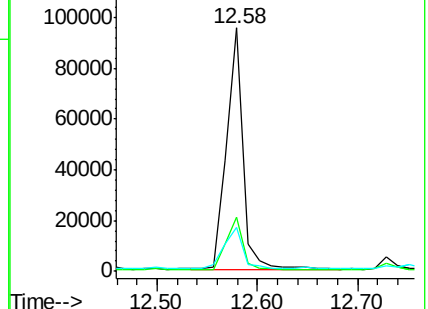
203 18.0 15.0 22.6



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: 78.72 ng

RT: 12.73 min Scan# 966

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

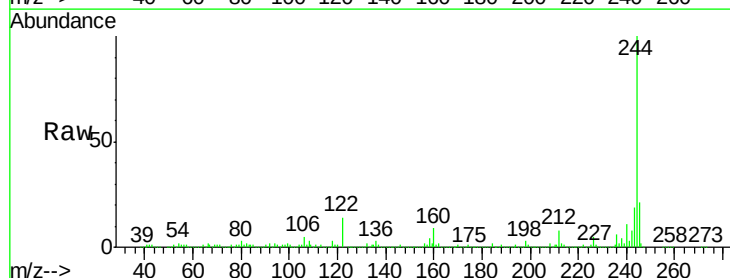
Tgt Ion:244 Resp: 1328484

Ion Ratio Lower Upper

244 100

212 7.8 6.4 9.6

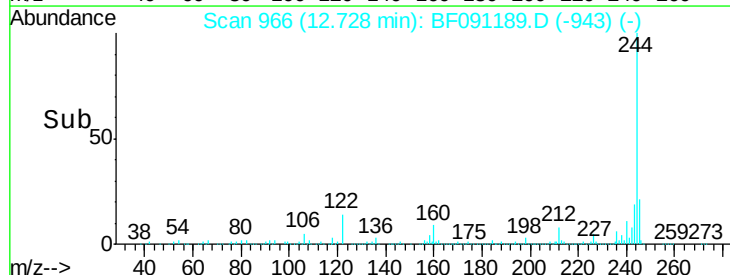
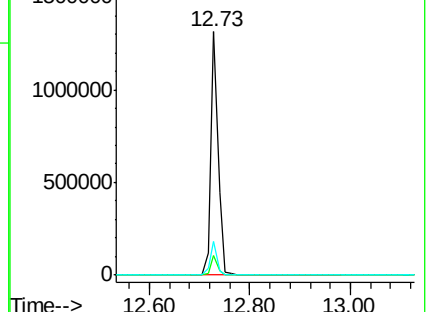
122 14.0 12.3 18.5

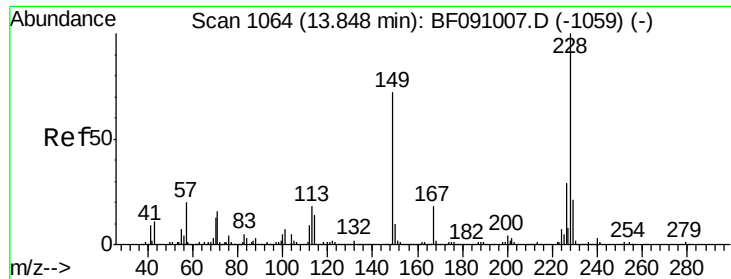


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.25 ng

RT: 13.77 min Scan# 1057

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL

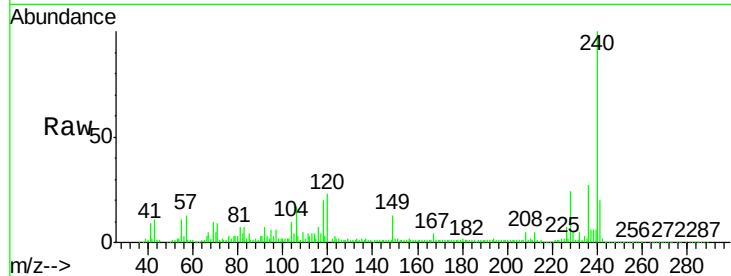
Tgt Ion:228 Resp: 53698

Ion Ratio Lower Upper

228 100

226 29.4 23.0 34.6

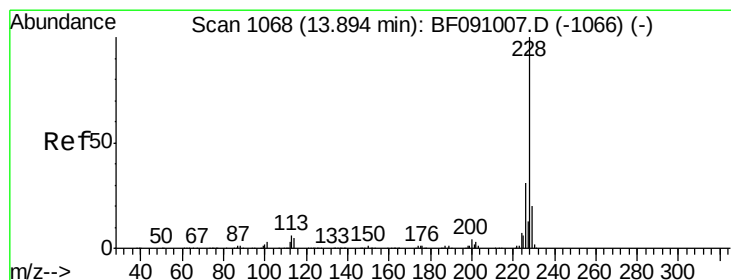
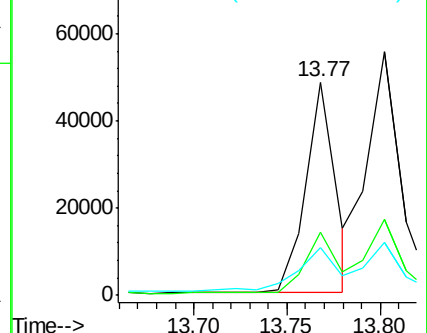
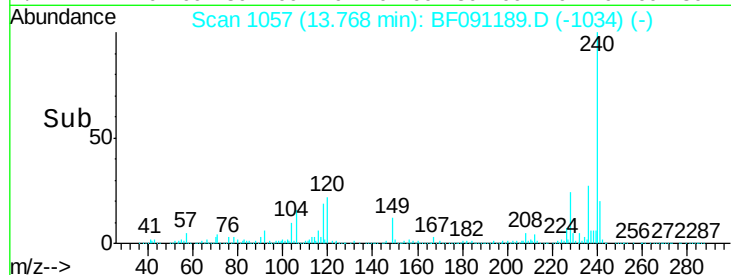
229 22.3 16.6 24.8



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



#82

Chrysene

Concen: 2.91 ng

RT: 13.80 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BF091189.D

Acq: 16 Nov 2016 15:48

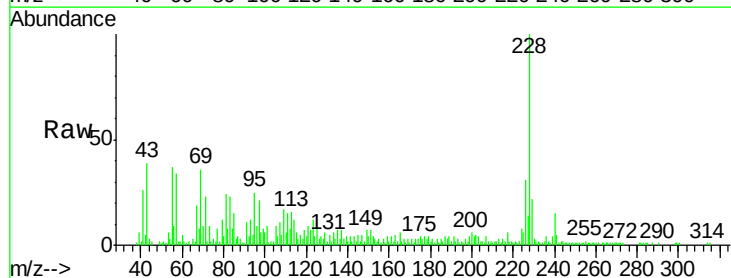
Tgt Ion:228 Resp: 68649

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

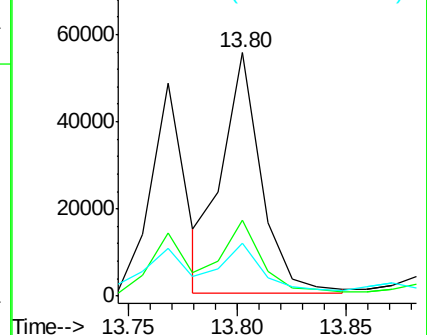
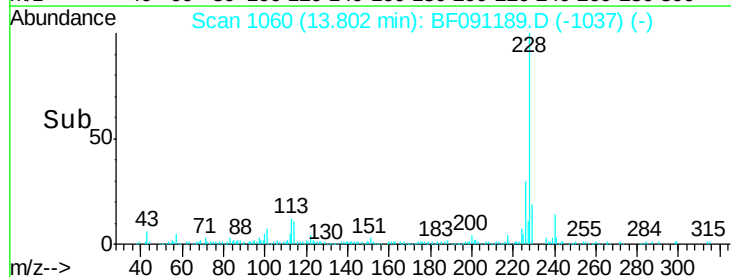
229 21.6 15.9 23.9

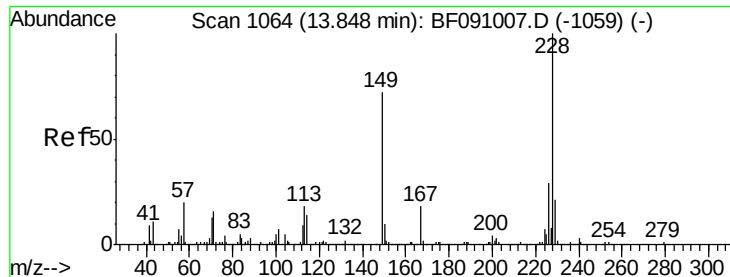


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

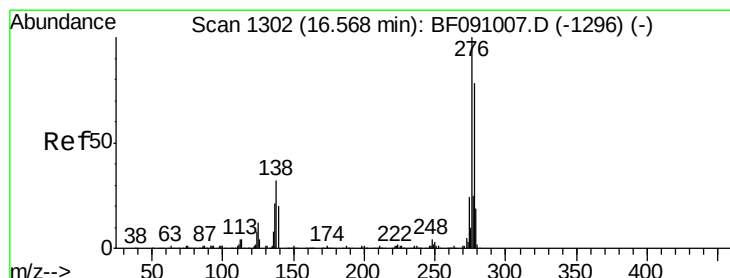
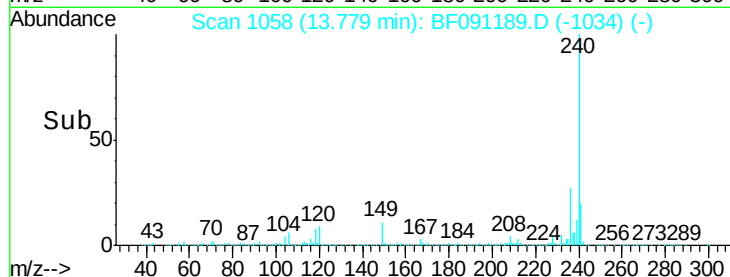
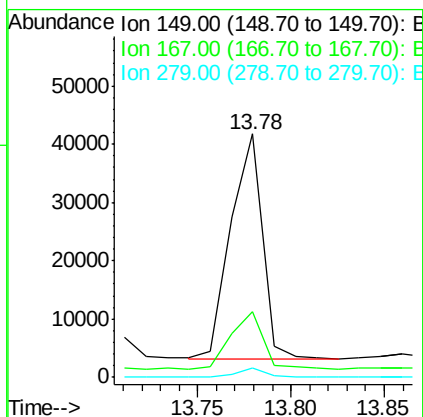
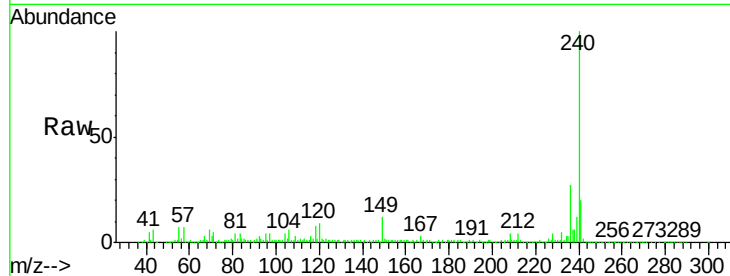




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.59 ng
 RT: 13.78 min Scan# 1058
 Delta R.T. -0.02 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

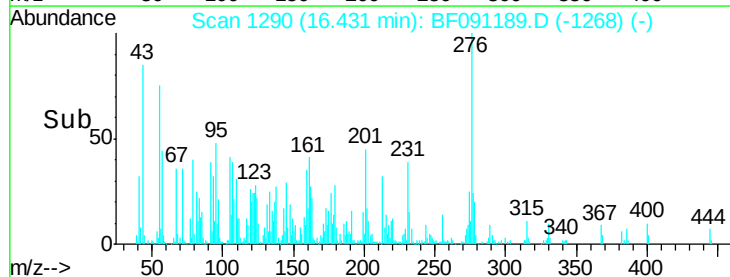
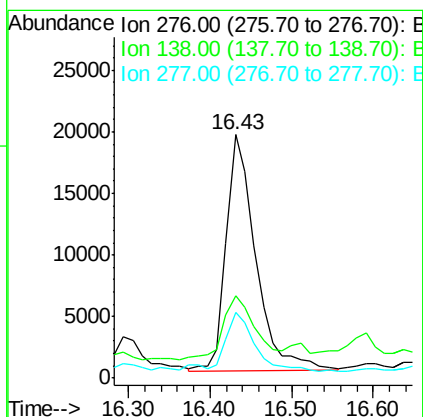
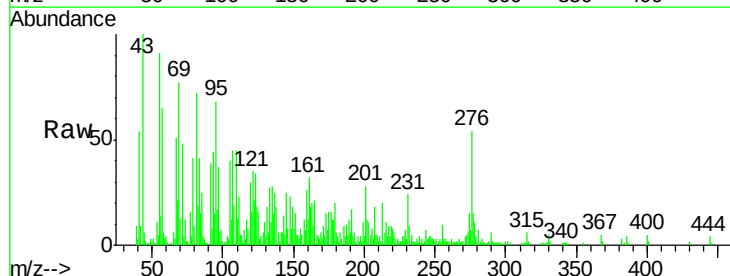
Instrument :
 BNA_F
 ClientSampleId :
 RER-TOPSOIL

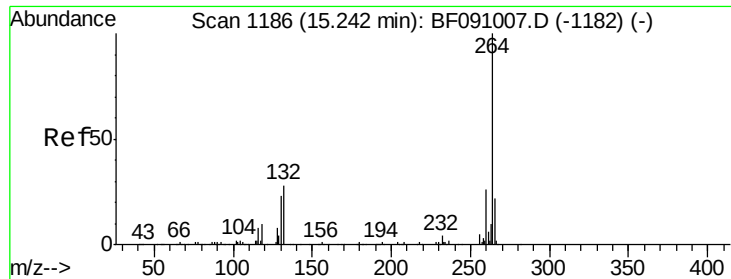
Tgt Ion:149 Resp: 46166
 Ion Ratio Lower Upper
 149 100
 167 27.1 20.4 30.6
 279 4.0 1.6 2.4#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.49 ng
 RT: 16.43 min Scan# 1290
 Delta R.T. -0.05 min
 Lab File: BF091189.D
 Acq: 16 Nov 2016 15:48

Tgt Ion:276 Resp: 48699
 Ion Ratio Lower Upper
 276 100
 138 28.2 26.0 39.0
 277 25.3 20.1 30.1

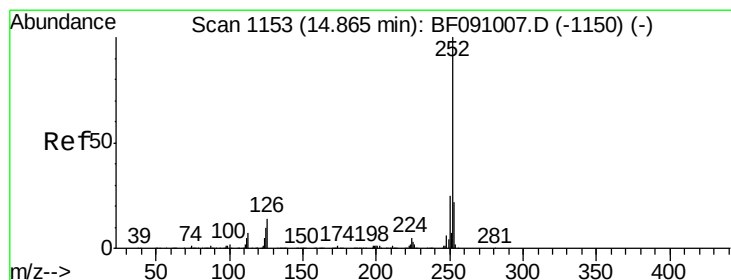
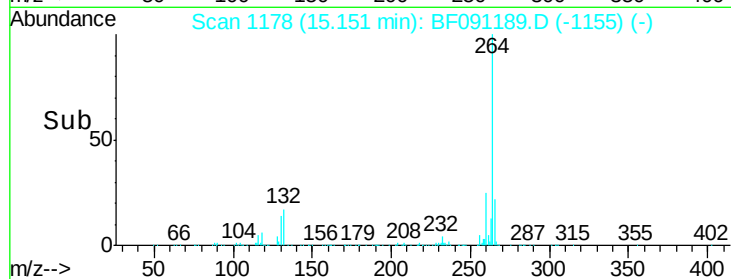
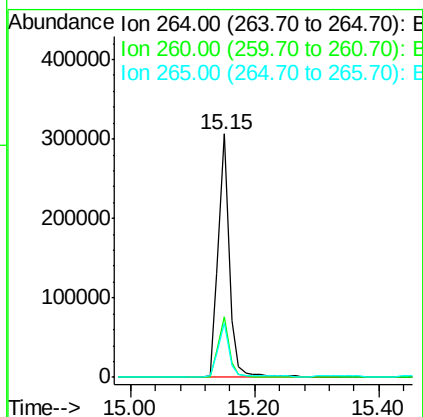
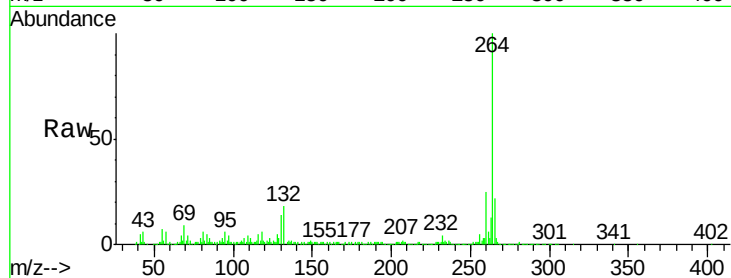




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.15 min Scan# 1178
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

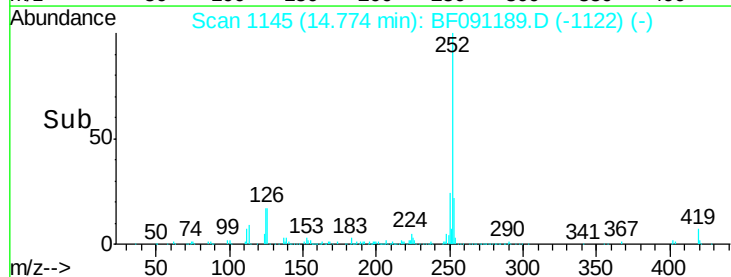
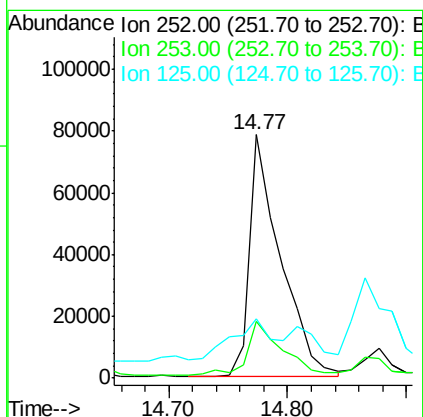
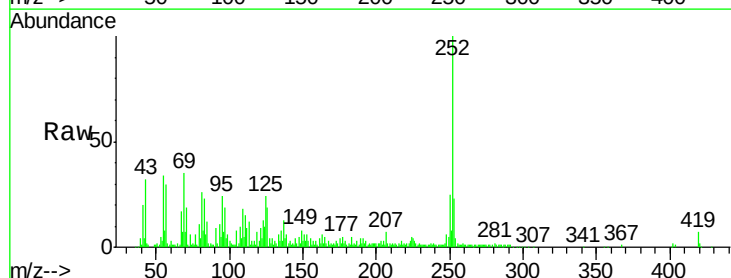
Instrument :
BNA_F
ClientSampleId :
RER-TOPSOIL

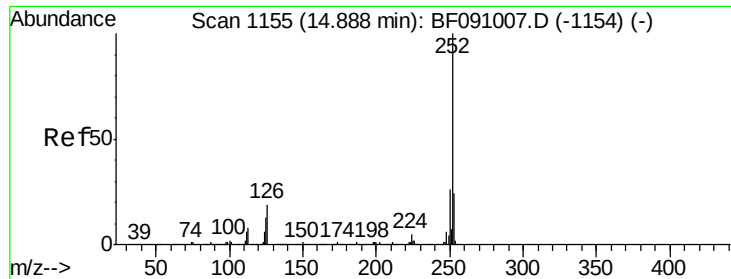
Tgt Ion: 264 Resp: 373911
Ion Ratio Lower Upper
264 100
260 25.1 20.6 30.8
265 22.2 17.8 26.8



#87
Benzo(b)fluoranthene
Concen: 5.65 ng
RT: 14.77 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion: 252 Resp: 143305
Ion Ratio Lower Upper
252 100
253 23.2 18.0 27.0
125 24.3 8.3 12.5#

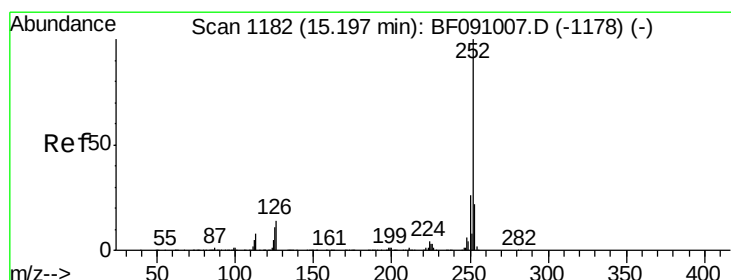
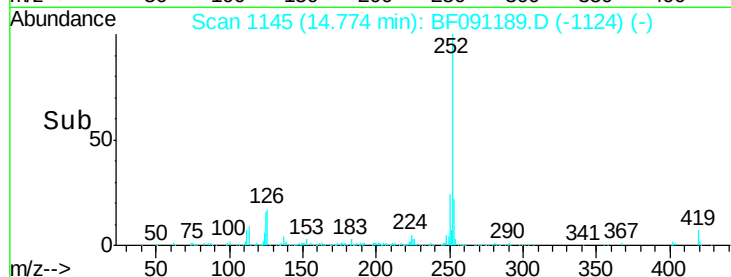
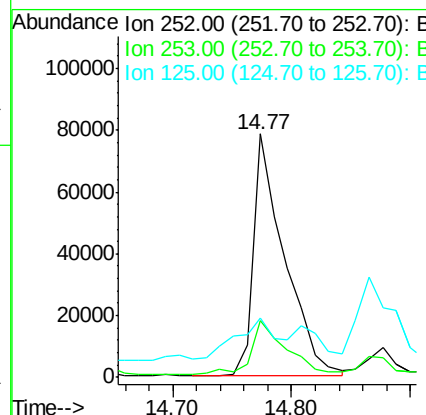
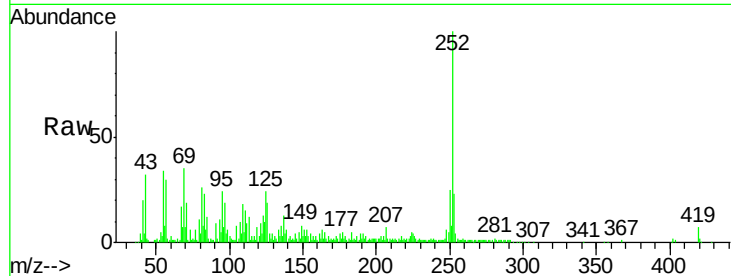




#88
Benzo(k)fluoranthene
Concen: 6.44 ng
RT: 14.77 min Scan# 1145
Delta R.T. -0.06 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

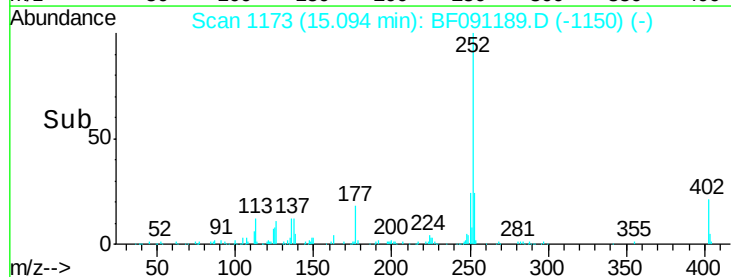
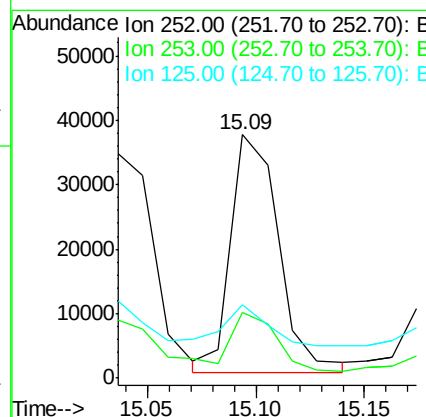
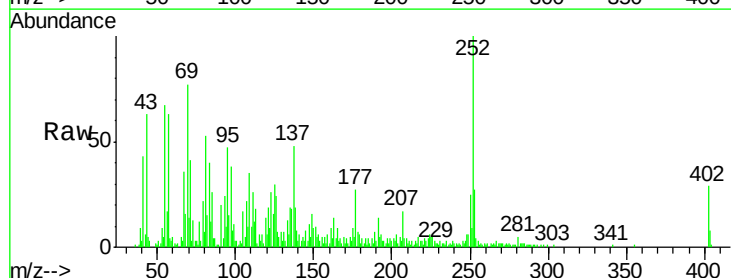
Instrument :
BNA_F
ClientSampleId :
RER-TOPSOIL

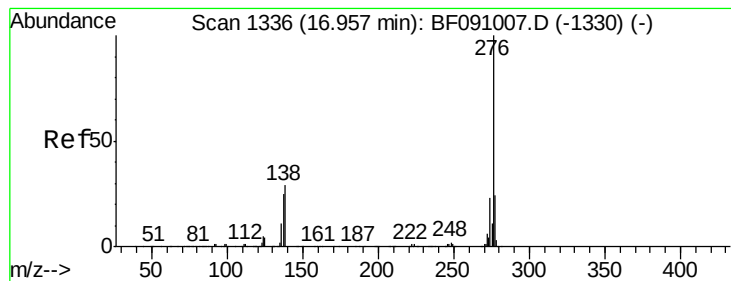
Tgt Ion: 252 Resp: 143305
Ion Ratio Lower Upper
252 100
253 23.2 18.6 28.0
125 24.3 11.2 16.8#



#89
Benzo(a)pyrene
Concen: 2.58 ng
RT: 15.09 min Scan# 1173
Delta R.T. -0.03 min
Lab File: BF091189.D
Acq: 16 Nov 2016 15:48

Tgt Ion: 252 Resp: 56933
Ion Ratio Lower Upper
252 100
253 26.8 17.8 26.8#
125 30.0 8.6 13.0#





#91

Benzo(g,h,i)perylene

Concen: 2.47 ng

RT: 16.82 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BF091189.D

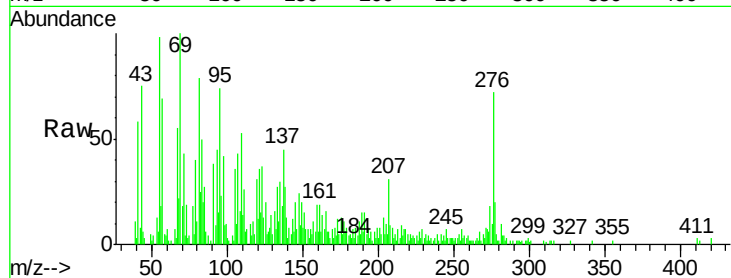
Acq: 16 Nov 2016 15:48

Instrument :

BNA_F

ClientSampleId :

RER-TOPSOIL



Tgt Ion: 276 Resp: 42590

Ion Ratio Lower Upper

276 100

277 28.0 19.2 28.8

138 36.8 23.3 34.9

