

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072418\
 Data File : BF107628.D
 Acq On : 24 Jul 2018 19:25
 Operator : JU/SJ
 Sample : J4098-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-01

Quant Time: Jul 25 01:03:47 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

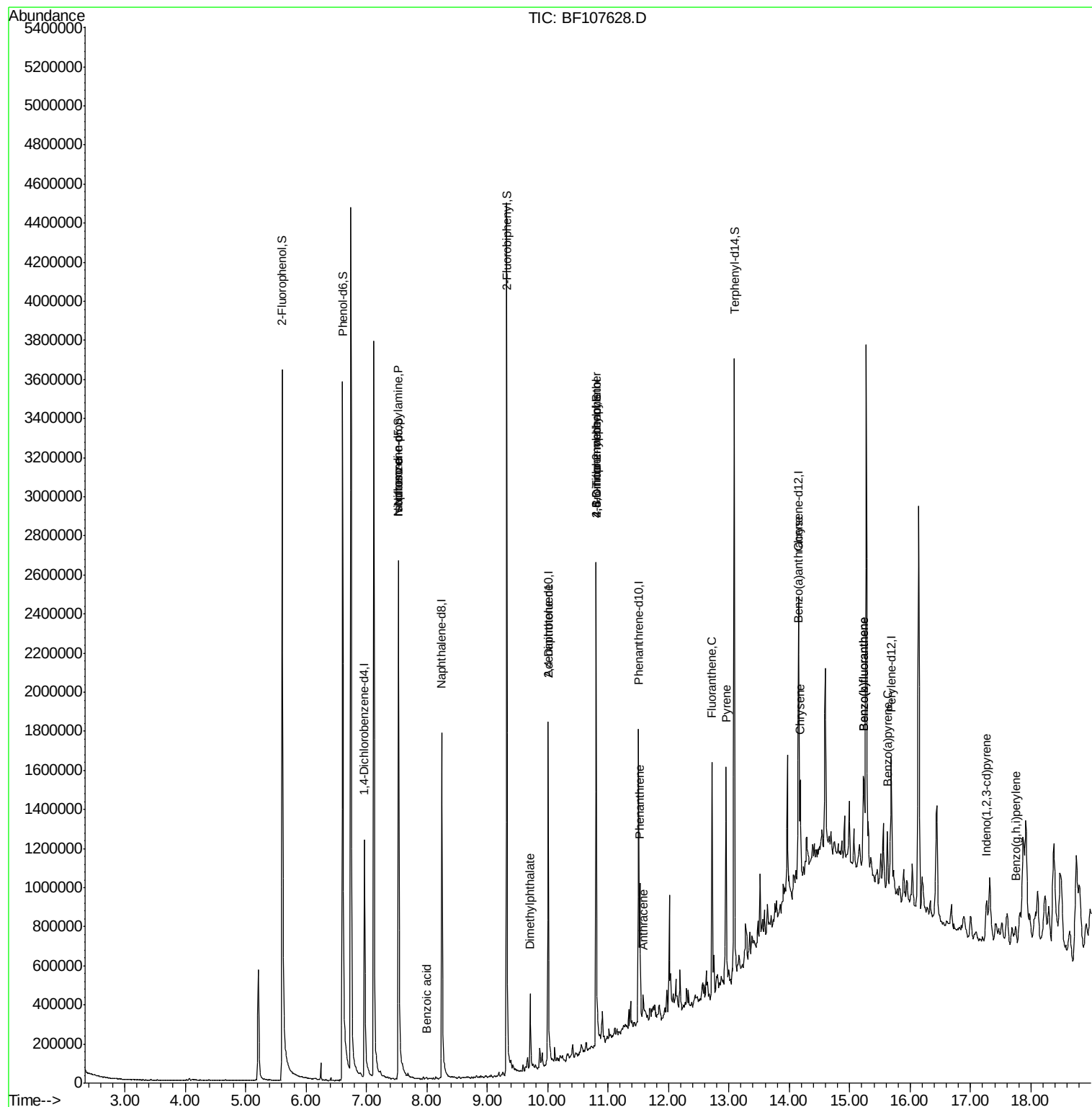
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	258801	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	971221	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	372631	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	646962	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	497166	20.00	ng	-0.01
86) Perylene-d12	15.69	264	388542	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	1445570	89.81	ng	0.00
7) Phenol-d6	6.61	99	1759904	91.06	ng	0.00
23) Nitrobenzene-d5	7.53	82	1078460	74.94	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	375790	88.68	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	1585550	69.17	ng	-0.01
78) Terphenyl-d14	13.09	244	1235985	63.65	ng	-0.01
Target Compounds						
9) Benzaldehyde	6.61	77	4000	Below Cal		Qvalue
19) n-Nitroso-di-n-propylamine	7.53	70	138482	11.091 ng	#	9
25) Isophorone	7.53	82	1074276	34.961 ng	#	81
32) Benzoic acid	8.01	122	113	7.910 ng	#	64
49) Dimethylphthalate	9.71	163	146721	5.224 ng	#	33
56) 2,4-Dinitrotoluene	10.01	165	47475	7.054 ng	#	98
64) 4,6-Dinitro-2-methylphenol	10.80	198	917	8.921 ng	#	24
66) 4-Bromophenyl-phenylether	10.80	248	21956	2.883 ng	#	1
70) Phenanthrene	11.52	178	248775	7.891 ng		98
71) Anthracene	11.58	178	78641	2.477 ng		97
73) Di-n-butylphthalate	12.05	149	5617	Below Cal	#	73
74) Fluoranthene	12.72	202	570502	16.864 ng		97
77) Pyrene	12.95	202	504877	14.846 ng		97
80) Benzo(a)anthracene	14.14	228	239250	8.212 ng		96
81) 3,3'-Dichlorobenzidine	14.11	252	193	Below Cal	#	22
82) Chrysene	14.18	228	244262	8.728 ng		97
85) Indeno(1,2,3-cd)pyrene	17.27	276	93034	3.922 ng	#	90
87) Benzo(b)fluoranthene	15.23	252	325802	15.321 ng	#	87
88) Benzo(k)fluoranthene	15.23	252	325802	15.639 ng	#	89
89) Benzo(a)pyrene	15.62	252	164453	8.455 ng	#	92
91) Benzo(g,h,i)perylene	17.75	276	90741	5.471 ng		94

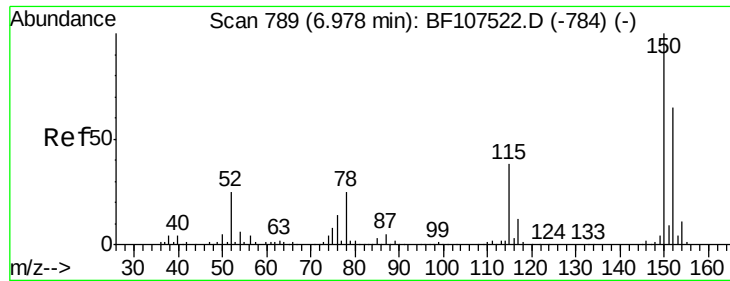
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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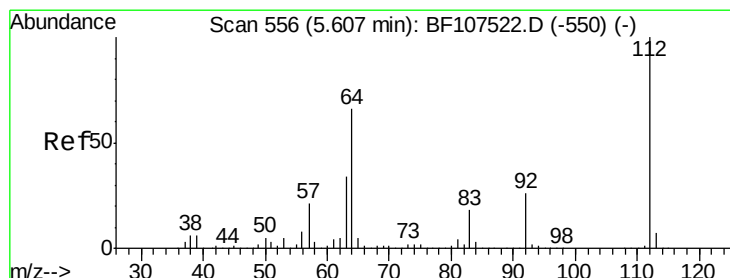
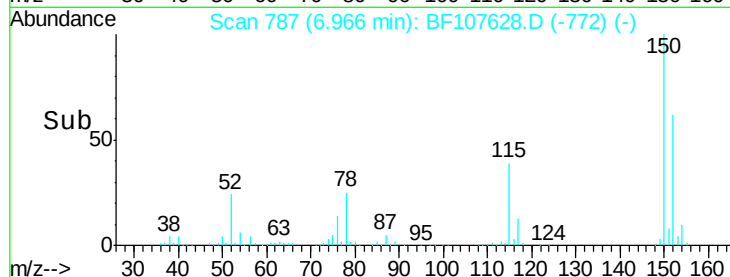
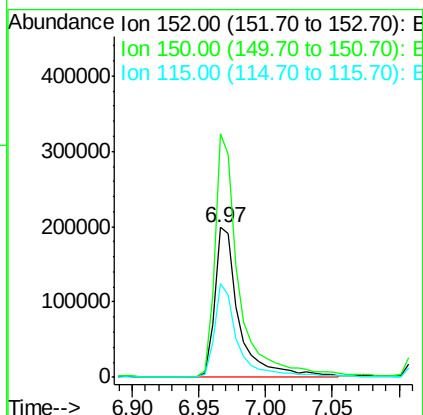
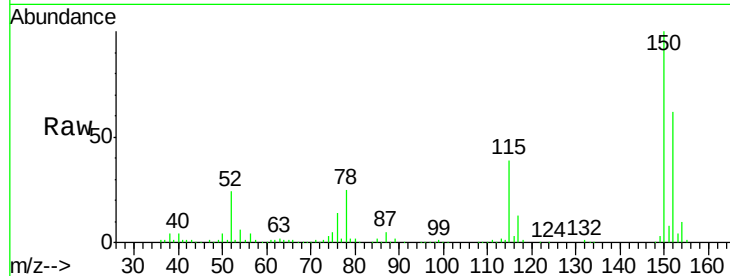


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-01

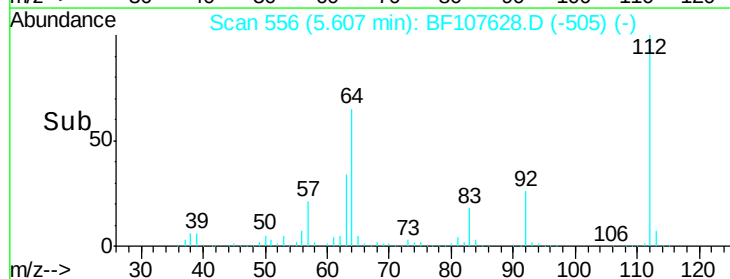
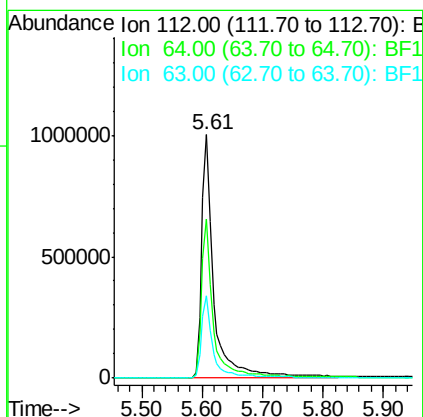
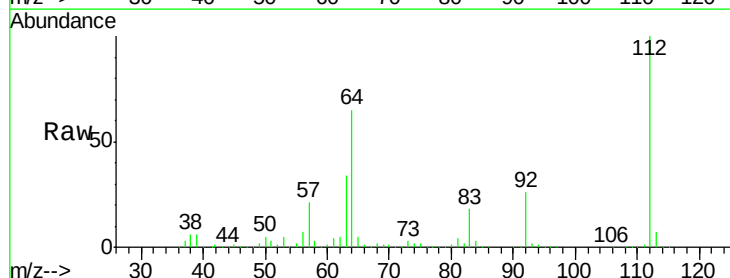
Tgt Ion:152 Resp: 258801
Ion Ratio Lower Upper
152 100
150 162.2 124.6 186.8
115 62.7 50.1 75.1

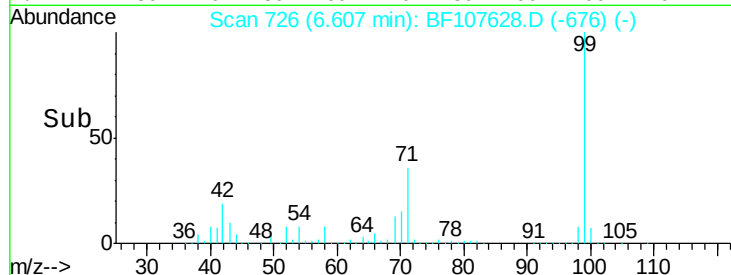
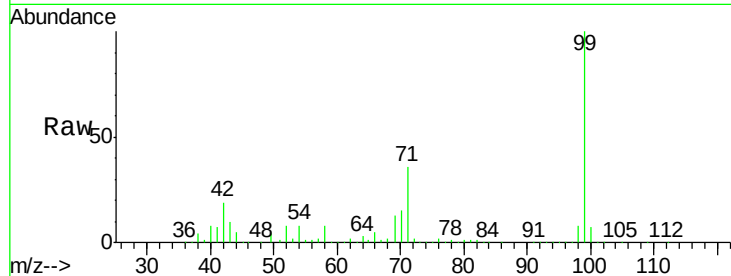
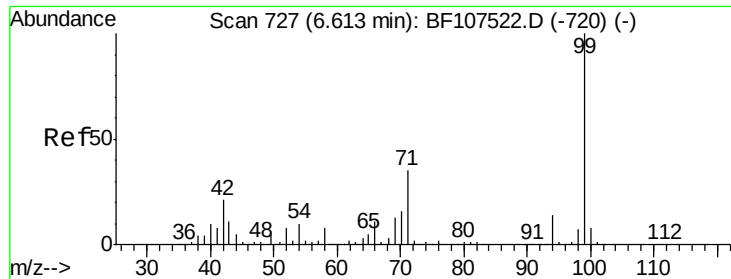


#5

2-Fluorophenol
Concen: 89.806 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Tgt Ion:112 Resp: 1445570
Ion Ratio Lower Upper
112 100
64 65.3 47.9 71.9
63 33.8 23.7 35.5





#7

Phenol-d6

Concen: 91.056 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

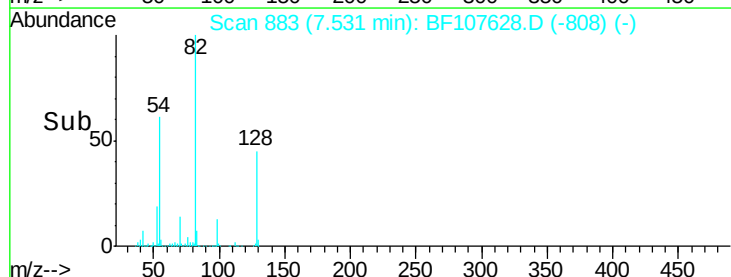
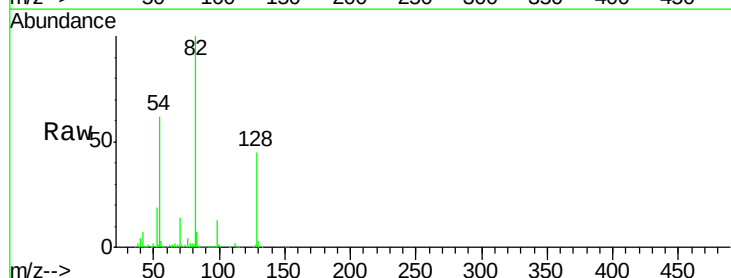
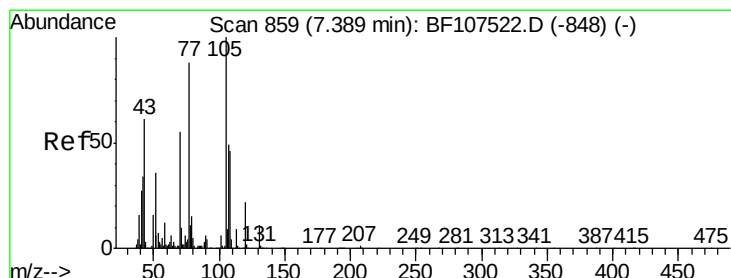
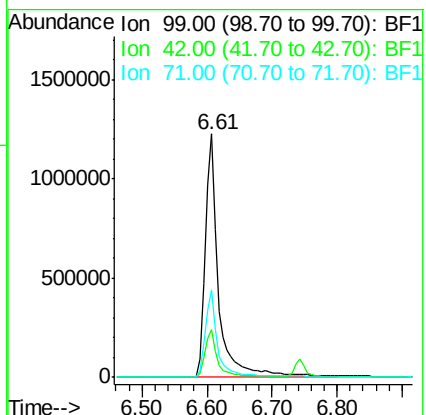
Tgt Ion: 99 Resp: 1759904

Ion Ratio Lower Upper

99 100

42 19.4 14.5 21.7

71 35.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 11.091 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Tgt Ion: 70 Resp: 138482

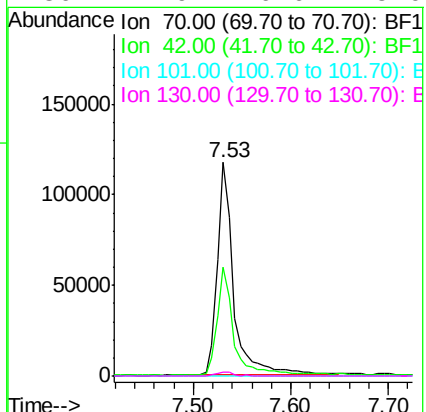
Ion Ratio Lower Upper

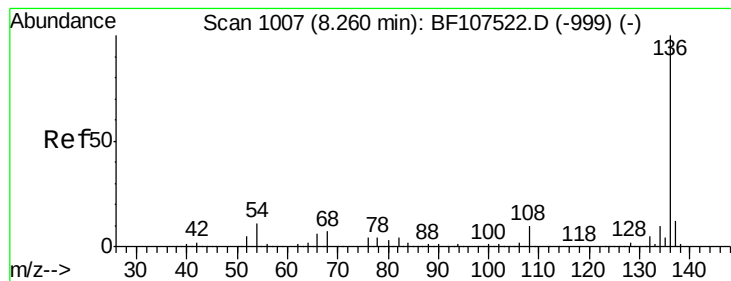
70 100

42 51.1 47.5 71.3

101 0.0 7.4 11.2#

130 1.9 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

Tgt Ion:136 Resp: 971221

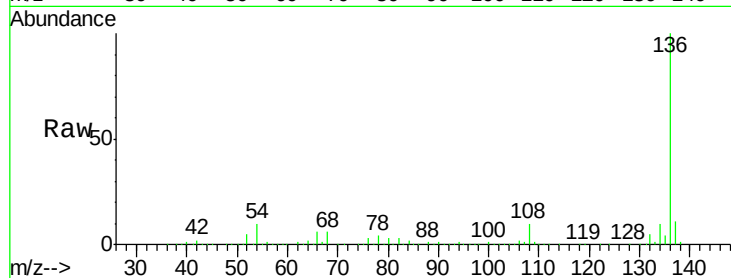
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 10.3 6.6 9.8#

68 5.9 5.0 7.4

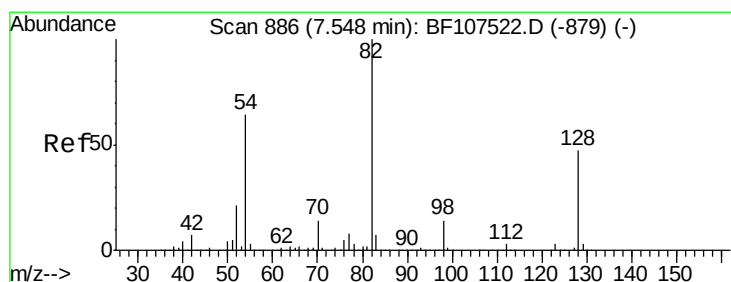
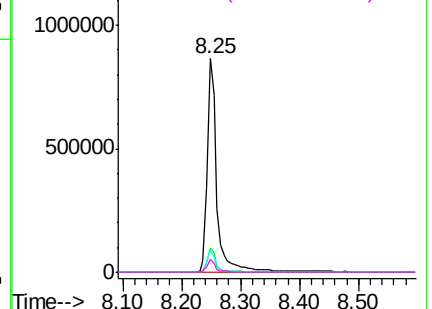
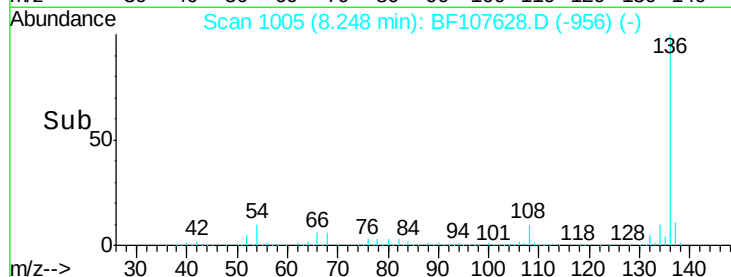


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 74.939 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

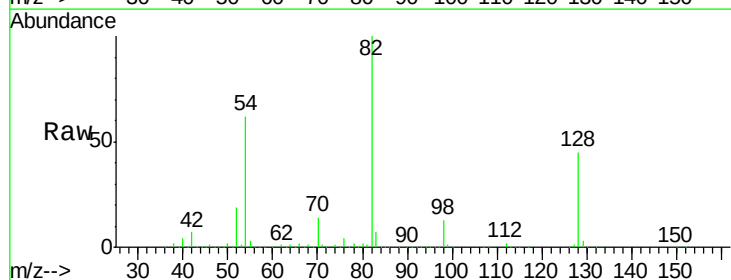
Tgt Ion: 82 Resp: 1078460

Ion Ratio Lower Upper

82 100

128 45.0 36.1 54.1

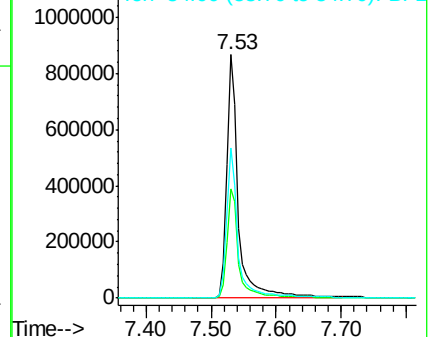
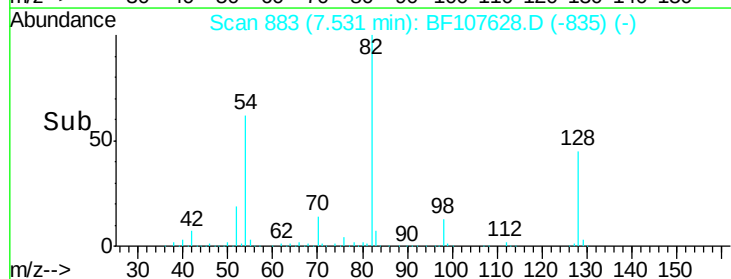
54 61.6 41.4 62.2

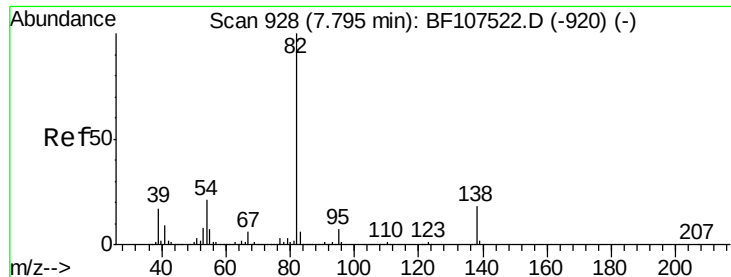


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.961 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

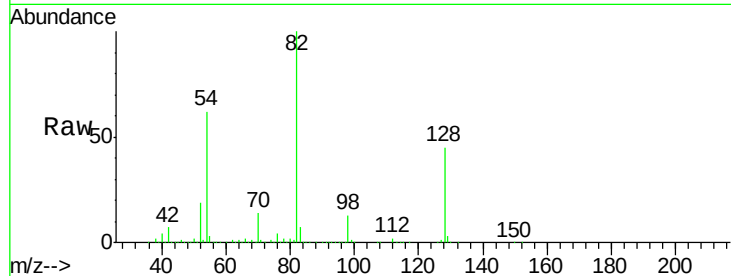
Tgt Ion: 82 Resp: 1074276

Ion Ratio Lower Upper

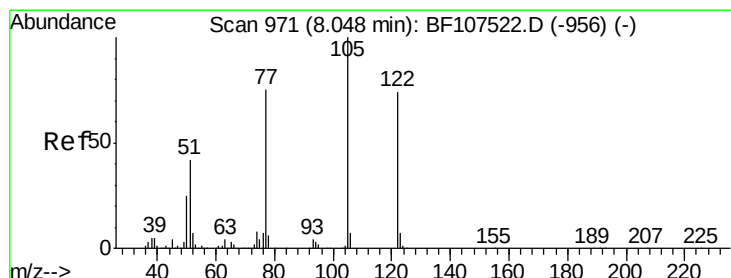
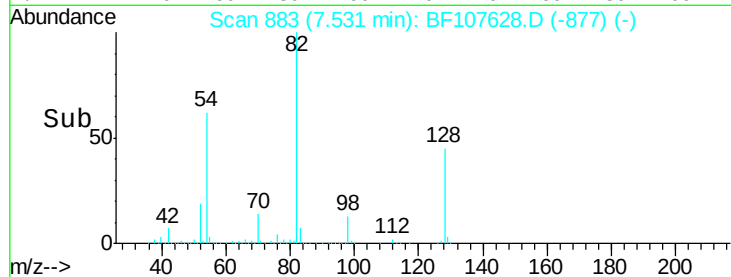
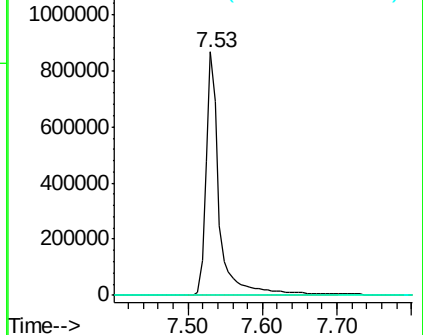
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#32

Benzoic acid

Concen: 7.910 ng

RT: 8.01 min Scan# 964

Delta R.T. -0.04 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

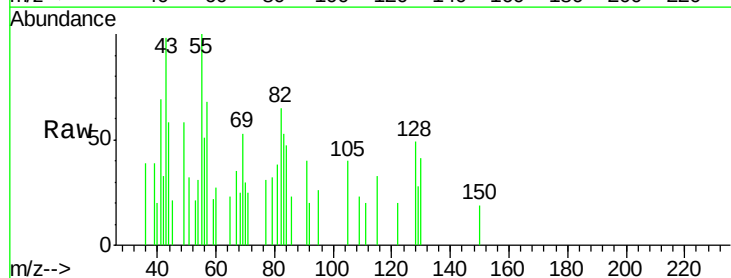
Tgt Ion: 122 Resp: 113

Ion Ratio Lower Upper

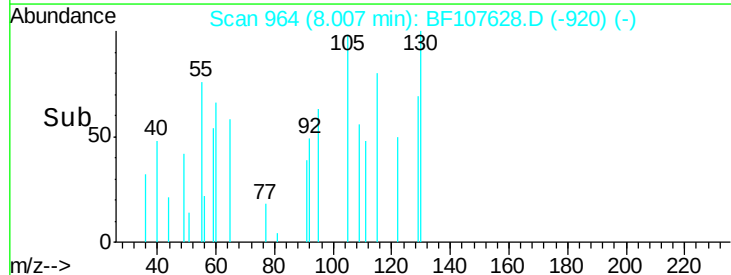
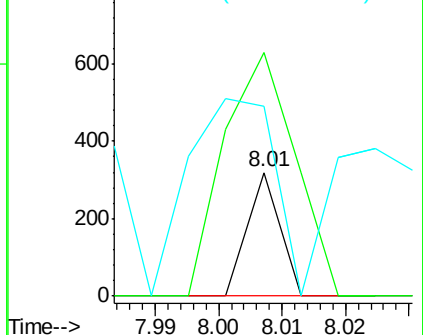
122 100

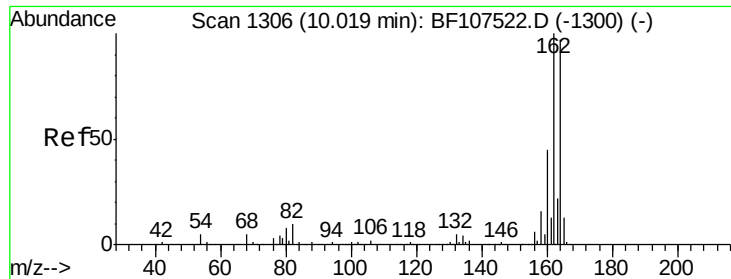
105 197.2 101.1 141.1#

77 153.6 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 77.00 (76.70 to 77.70): BF1

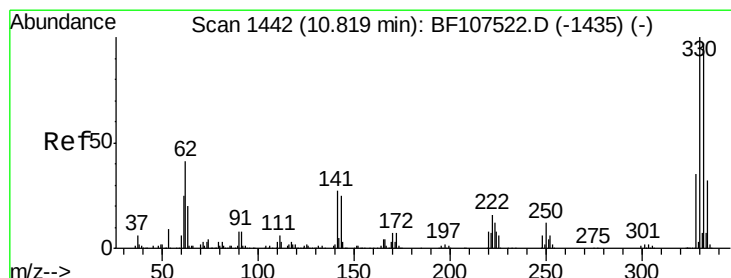
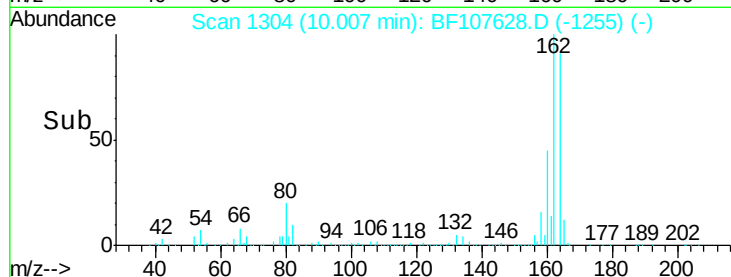
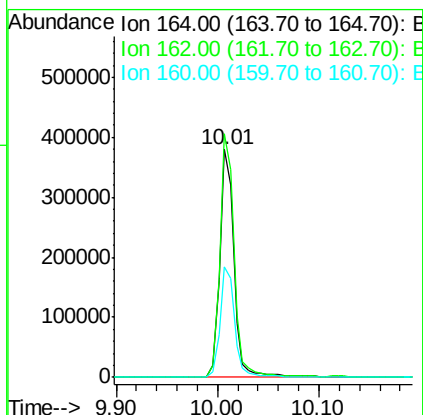
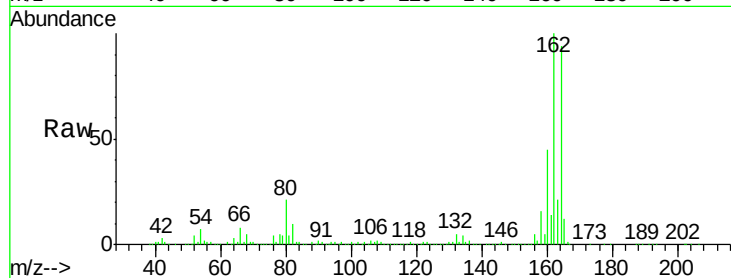




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

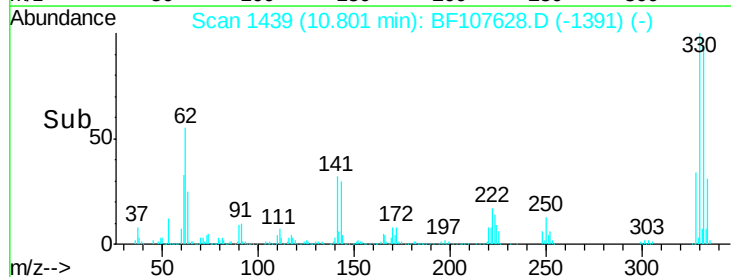
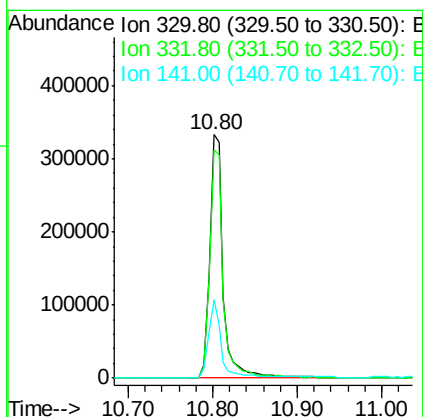
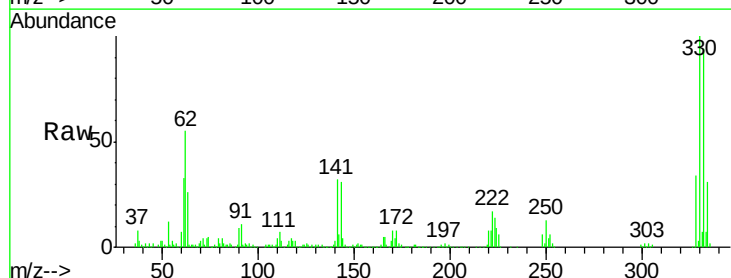
Instrument :
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GL-TOPSOIL-01

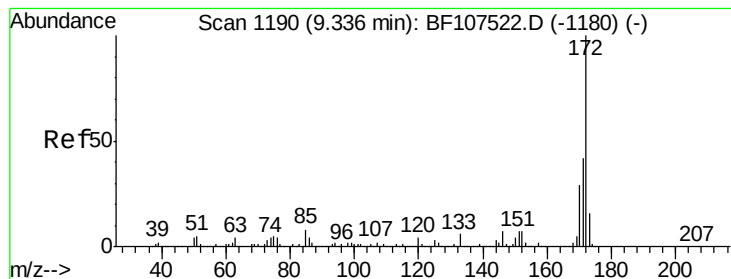
Tgt Ion:164 Resp: 372631
Ion Ratio Lower Upper
164 100
162 107.0 86.1 129.1
160 48.5 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 88.684 ng
RT: 10.80 min Scan# 1439
Delta R.T. -0.02 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Tgt Ion:330 Resp: 375790
Ion Ratio Lower Upper
330 100
332 94.3 77.0 115.6
141 29.0 29.9 44.9#





#44

2-Fluorobiphenyl

Concen: 69.166 ng

RT: 9.32 min Scan# 1188

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

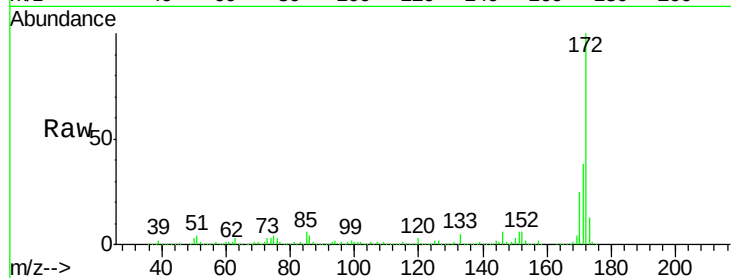
Tgt Ion:172 Resp: 1585550

Ion Ratio Lower Upper

172 100

171 38.3 29.7 44.5

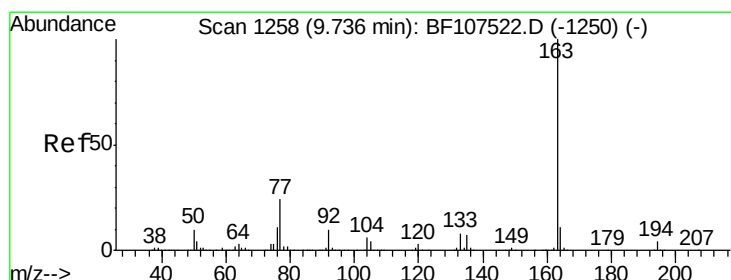
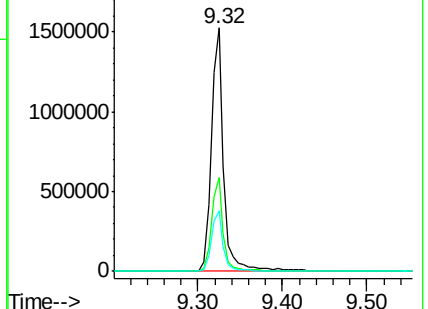
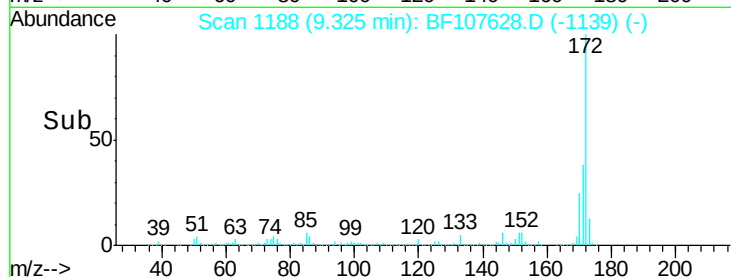
170 25.1 19.6 29.4



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: 5.224 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

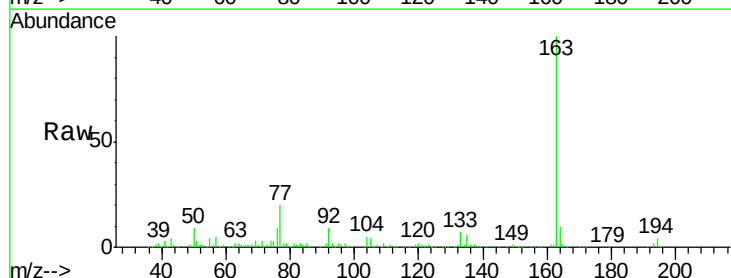
Tgt Ion:163 Resp: 146721

Ion Ratio Lower Upper

163 100

194 4.1 2.7 4.1#

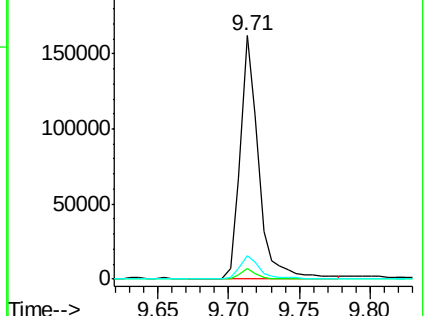
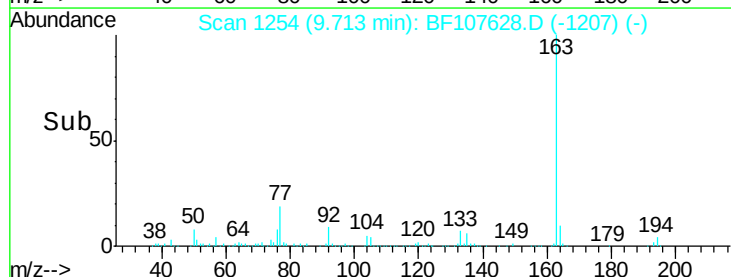
164 9.7 8.2 12.2

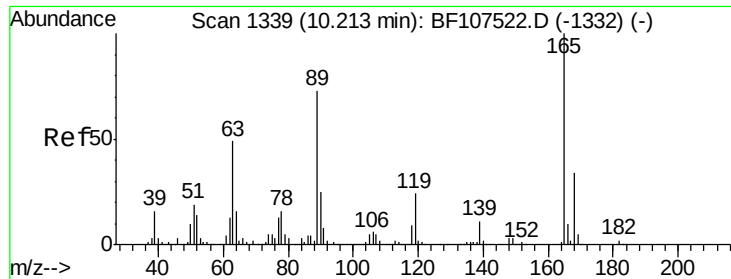


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

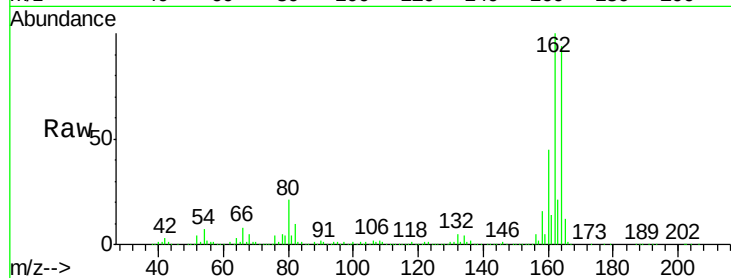




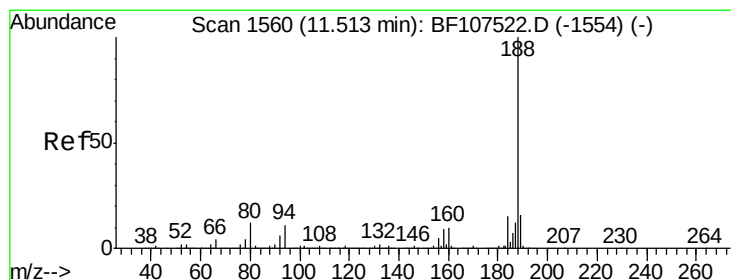
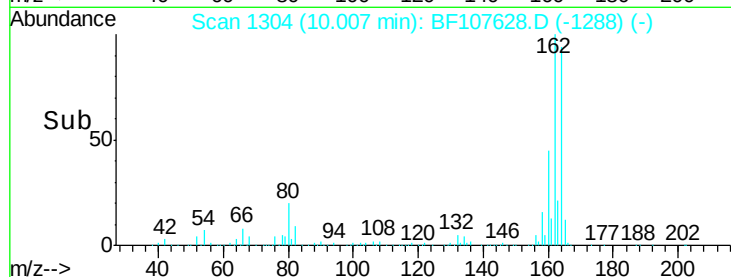
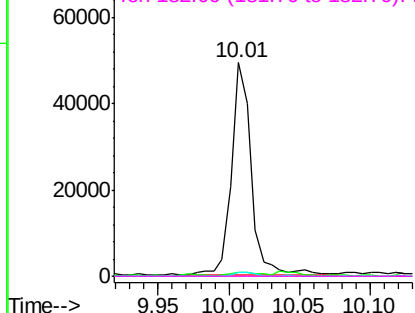
#56
2,4-Dinitrotoluene
Concen: 7.054 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.21 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-01

Tgt Ion:165 Resp: 47475
Ion Ratio Lower Upper
165 100
63 1.7 36.4 54.6#
89 1.8 57.8 86.6#
182 0.0 1.6 2.4#

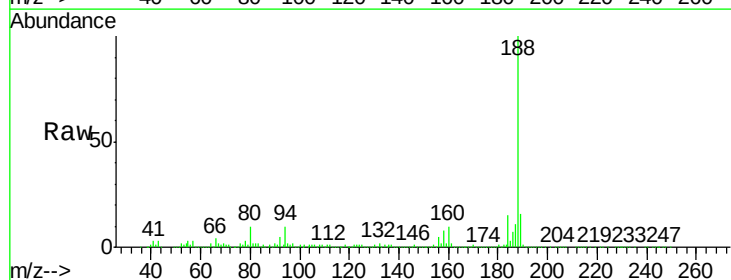


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

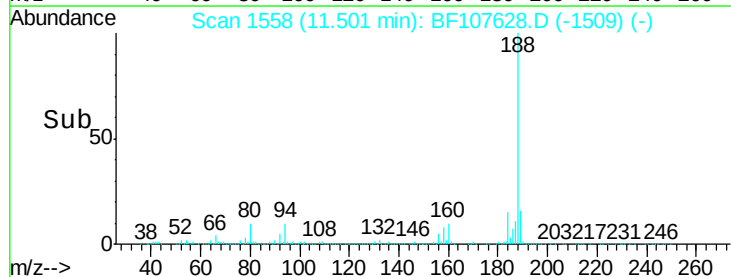
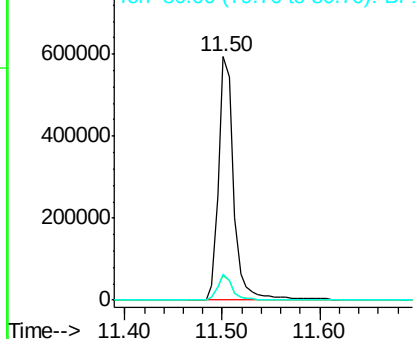


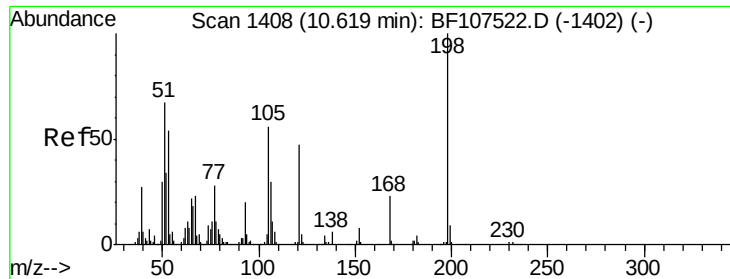
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Tgt Ion:188 Resp: 646962
Ion Ratio Lower Upper
188 100
94 9.9 8.5 12.7
80 10.5 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

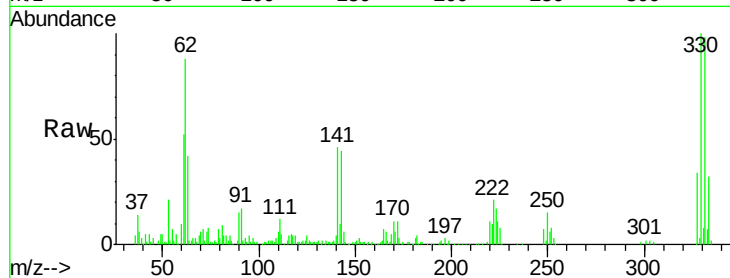




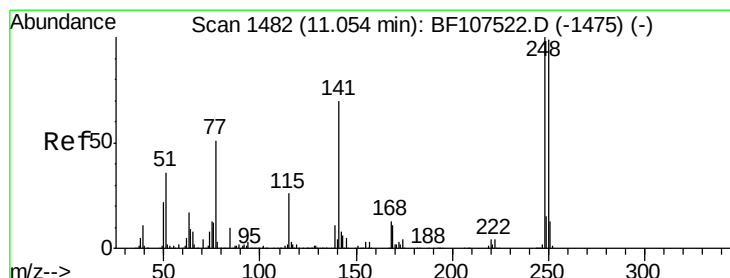
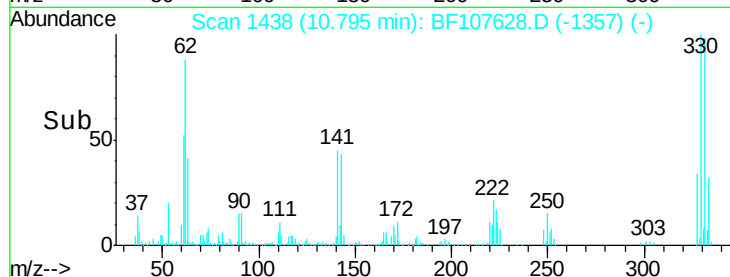
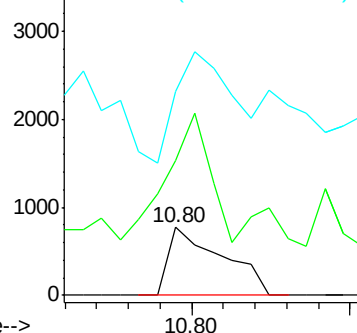
#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.921 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. 0.18 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-01

Tgt Ion:198 Resp: 917
 Ion Ratio Lower Upper
 198 100
 51 199.9 37.7 77.7#
 105 302.0 36.3 76.3#

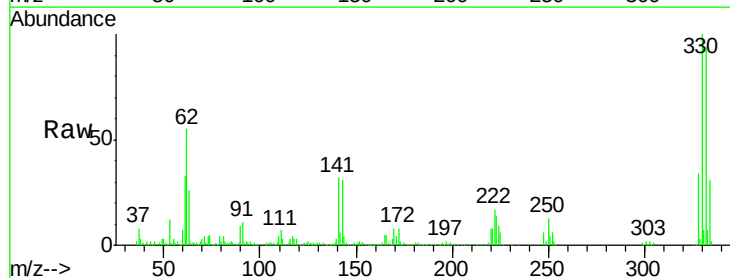


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

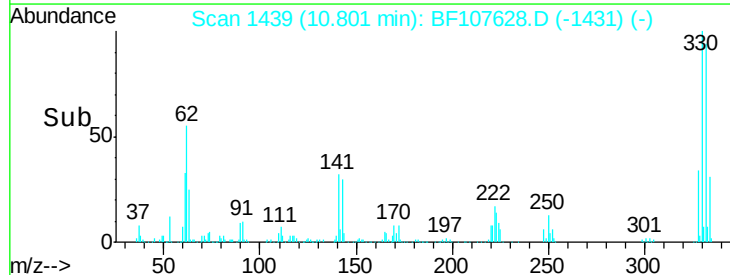
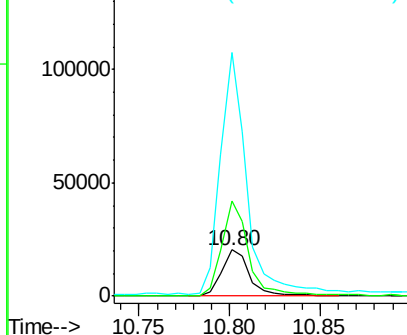


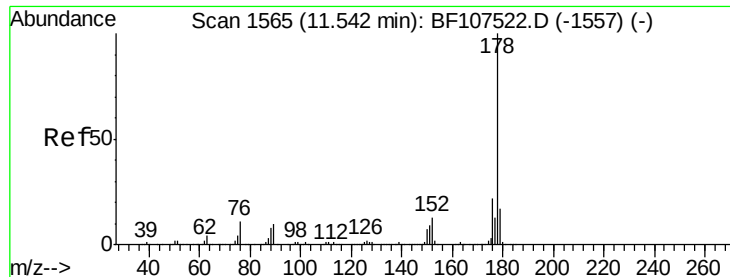
#66
 4-Bromophenyl-phenylether
 Concen: 2.883 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.25 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

Tgt Ion:248 Resp: 21956
 Ion Ratio Lower Upper
 248 100
 250 208.1 76.9 115.3#
 141 529.6 74.4 111.6#



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: 7.891 ng

RT: 11.52 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

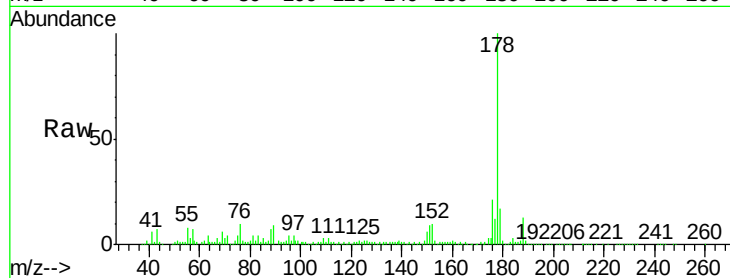
Tgt Ion:178 Resp: 248775

Ion Ratio Lower Upper

178 100

176 20.5 15.8 23.8

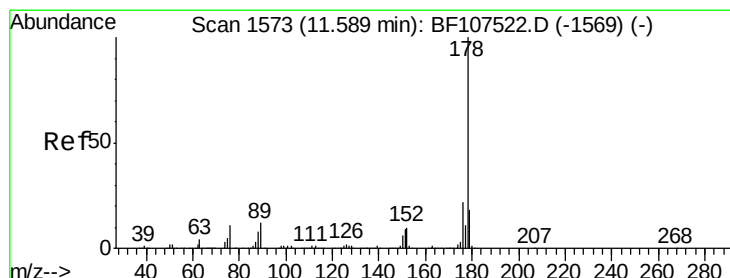
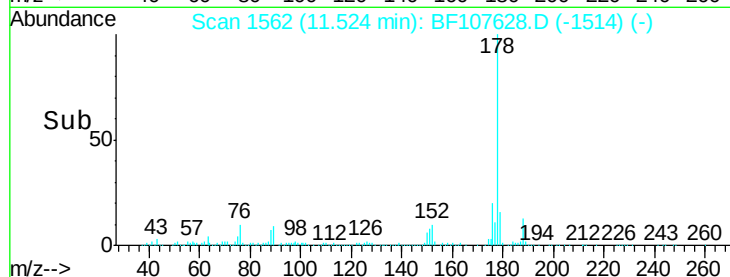
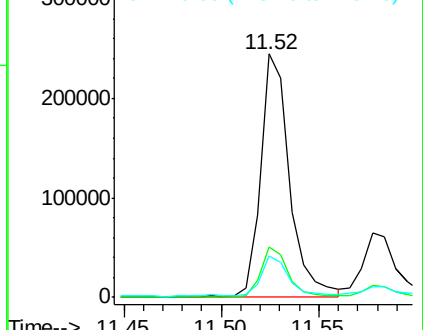
179 16.9 13.0 19.6



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



#71

Anthracene

Concen: 2.477 ng

RT: 11.58 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

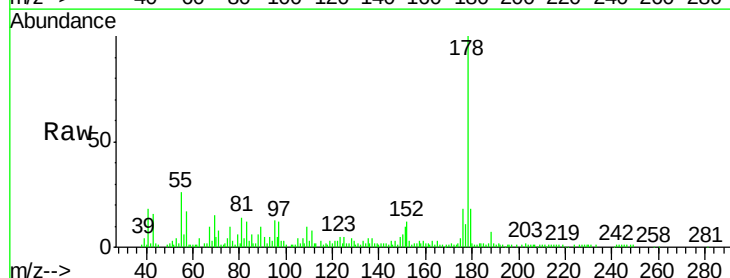
Tgt Ion:178 Resp: 78641

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

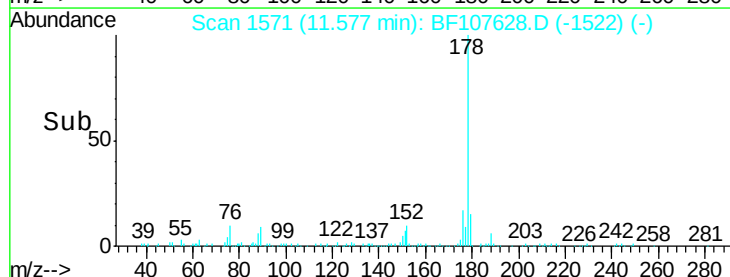
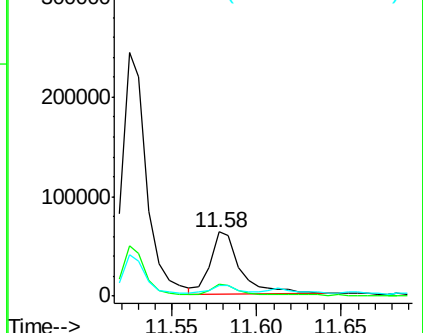
179 17.7 12.6 19.0

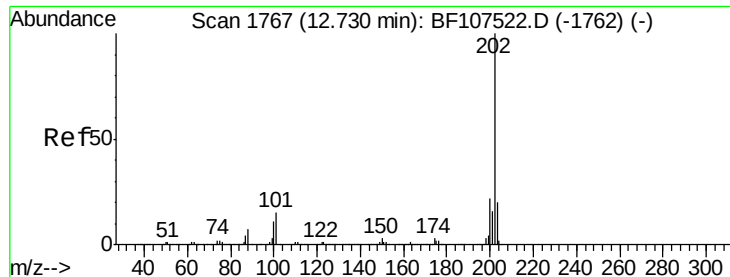


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 16.864 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

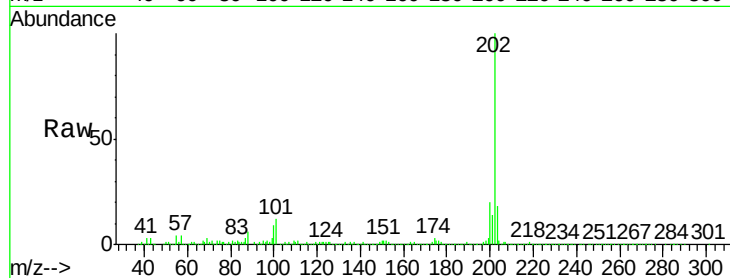
Tgt Ion:202 Resp: 570502

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.1

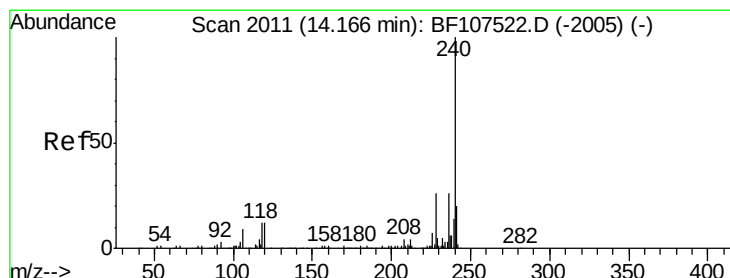
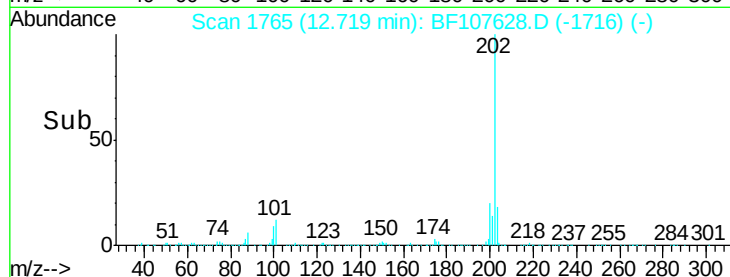
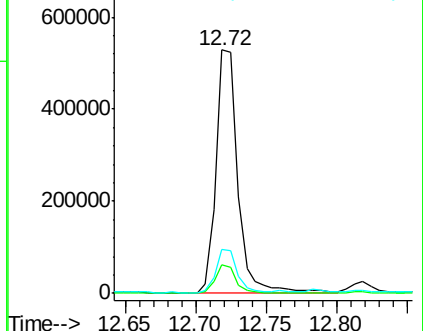
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

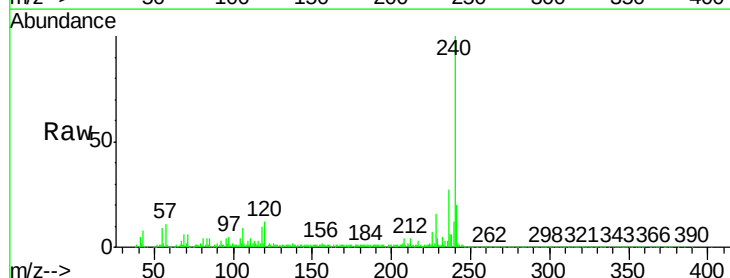
Tgt Ion:240 Resp: 497166

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

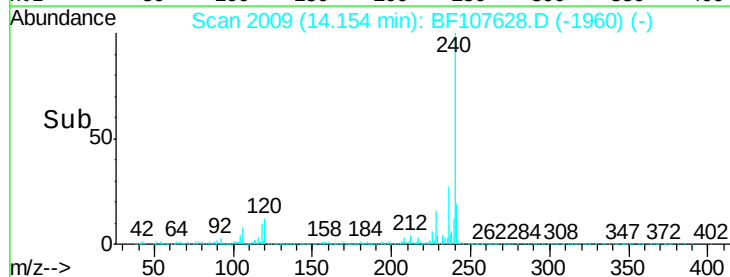
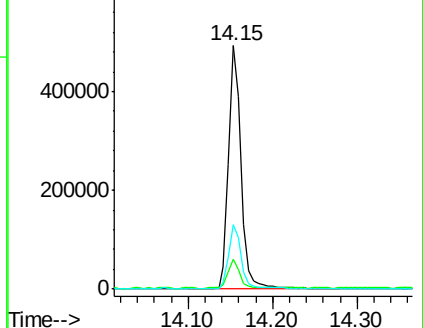
236 26.7 20.7 31.1

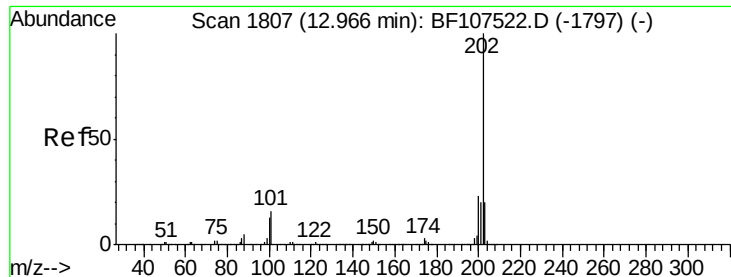


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

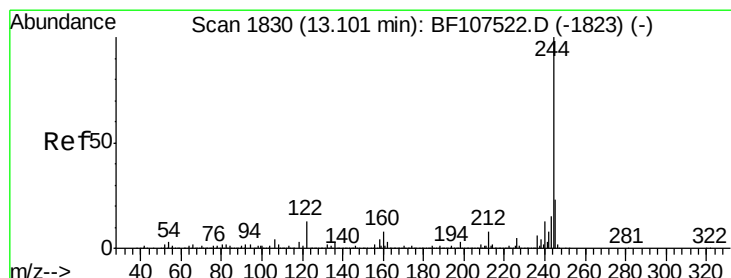
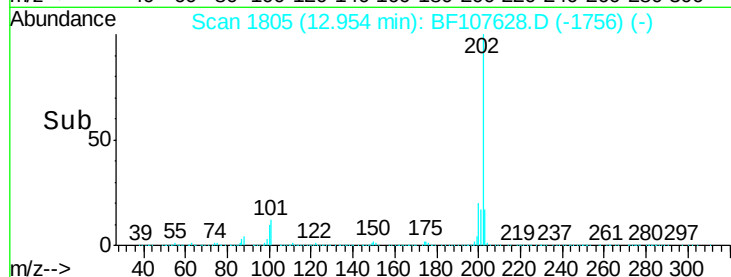
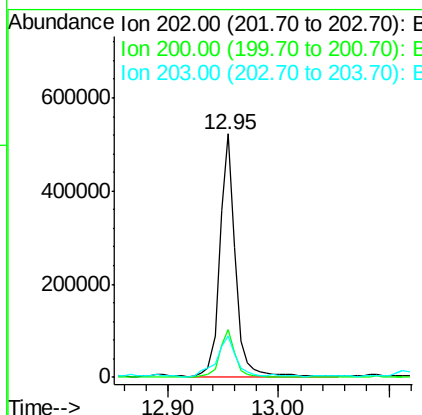
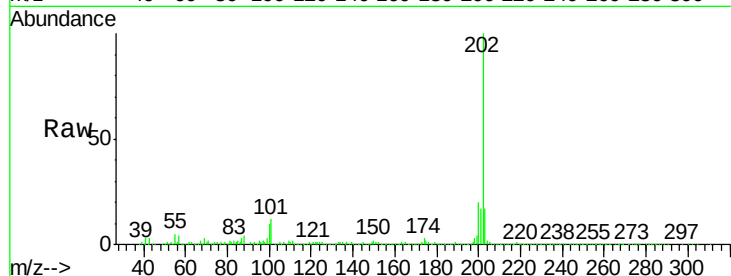




#77
 Pyrene
 Concen: 14.846 ng
 RT: 12.95 min Scan# 1805
 Delta R.T. -0.01 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

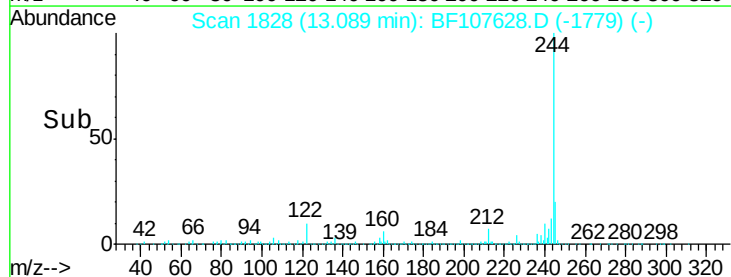
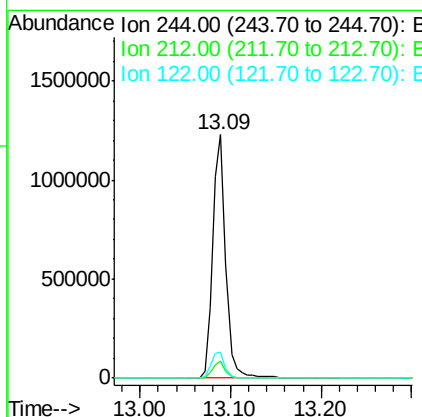
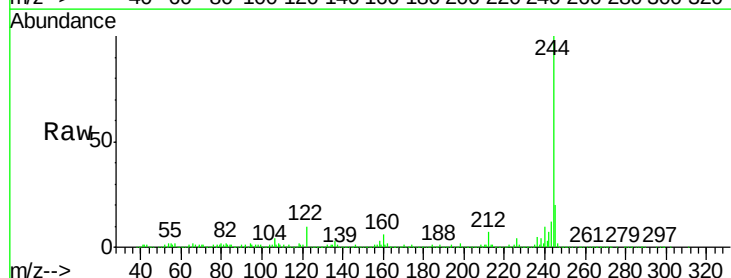
Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-01

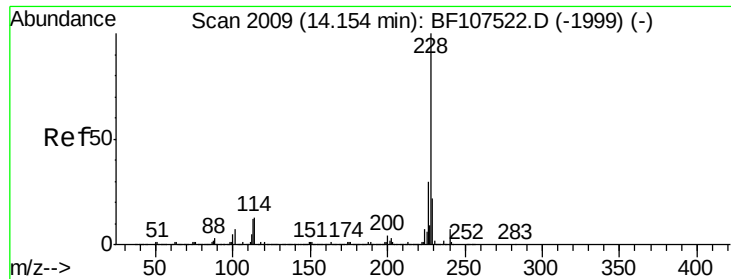
Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.8	17.4	26.2
203	17.2	14.3	21.5



#78
 Terphenyl-d14
 Concen: 63.645 ng
 RT: 13.09 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	10.5	11.0	16.4

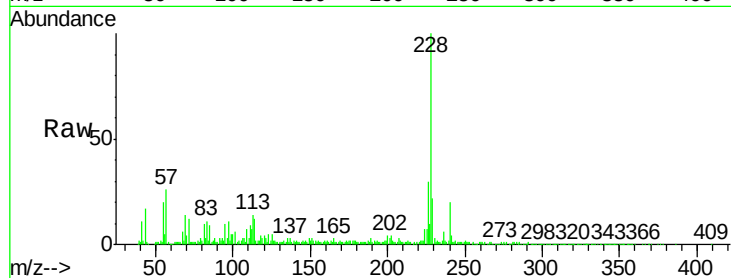




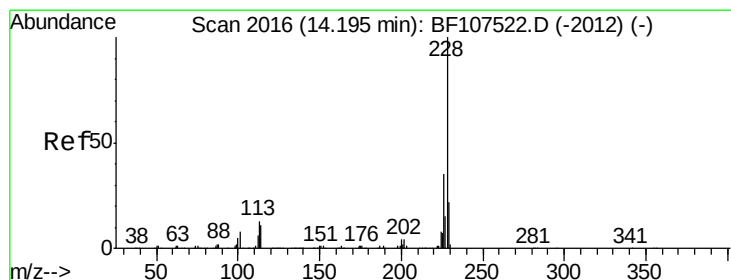
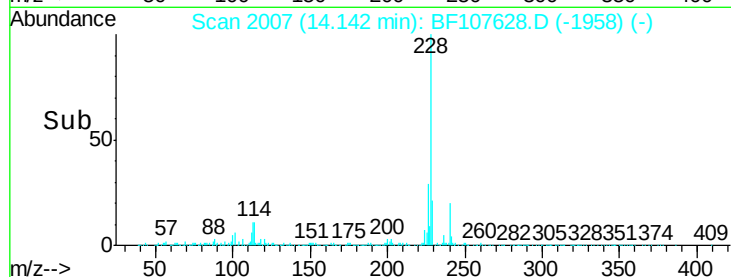
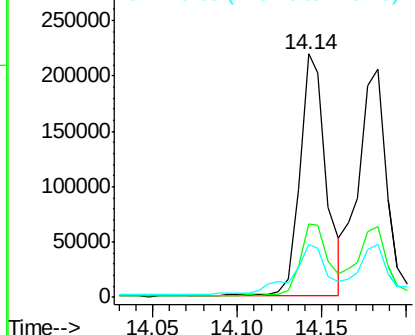
#80
Benzo(a)anthracene
Concen: 8.212 ng
RT: 14.14 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-01

Tgt Ion: 228 Resp: 239250
Ion Ratio Lower Upper
228 100
226 30.1 22.6 33.8
229 21.9 15.8 23.6

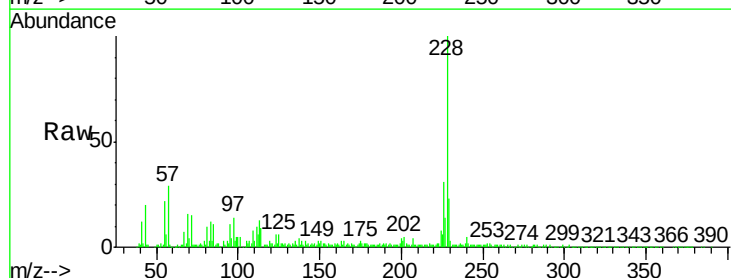


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

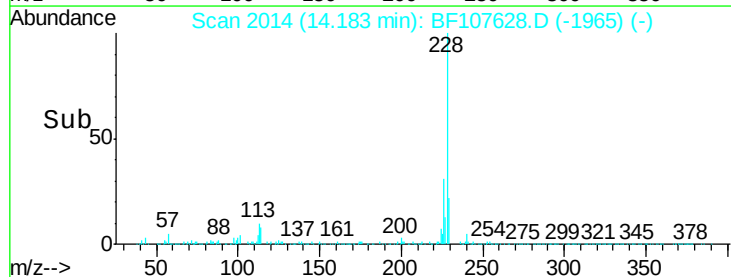
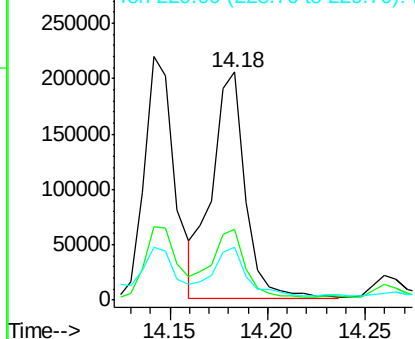


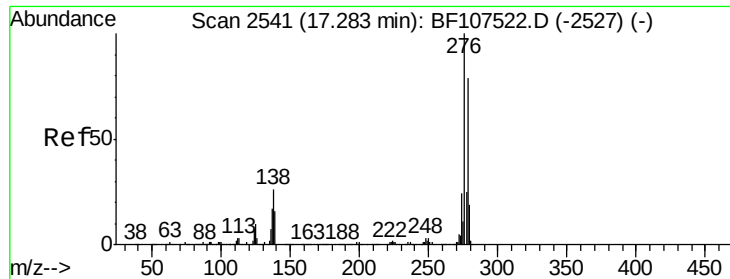
#82
Chrysene
Concen: 8.728 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Tgt Ion: 228 Resp: 244262
Ion Ratio Lower Upper
228 100
226 31.1 25.0 37.6
229 23.0 16.2 24.4



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

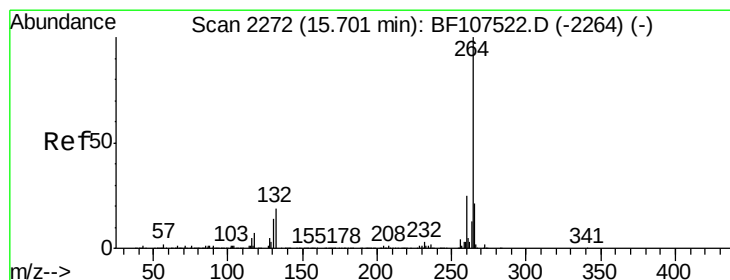
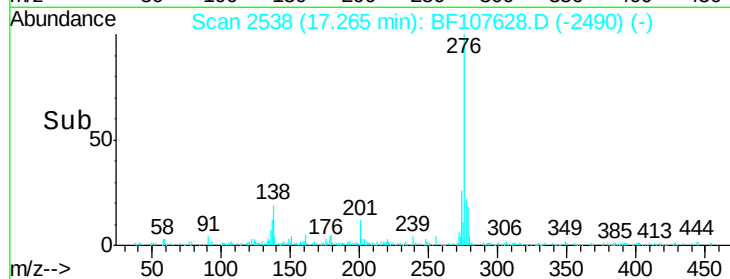
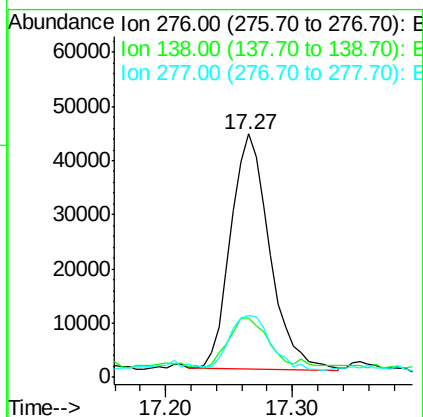
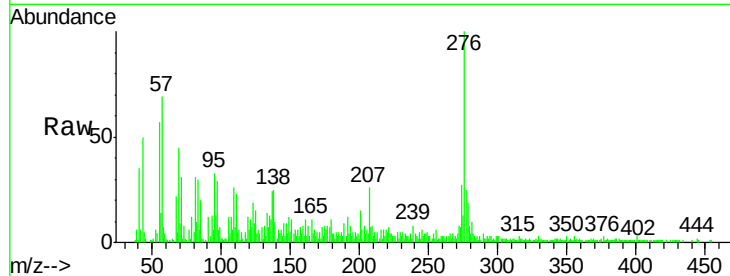




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.922 ng
 RT: 17.27 min Scan# 2538
 Delta R.T. -0.02 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

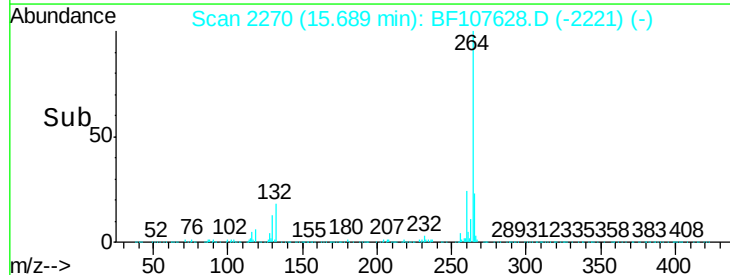
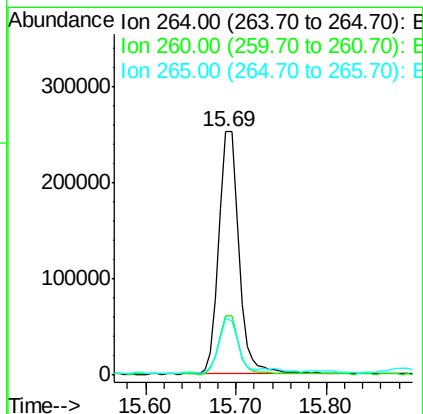
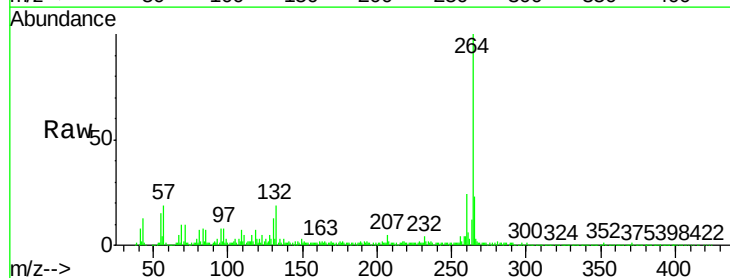
Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-01

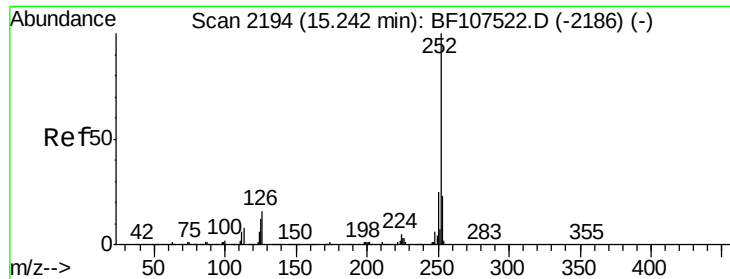
Tgt Ion:276 Resp: 93034
 Ion Ratio Lower Upper
 276 100
 138 21.7 25.0 37.6#
 277 25.2 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BF107628.D
 Acq: 24 Jul 2018 19:25

Tgt Ion:264 Resp: 388542
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.2 28.8
 265 23.2 17.5 26.3

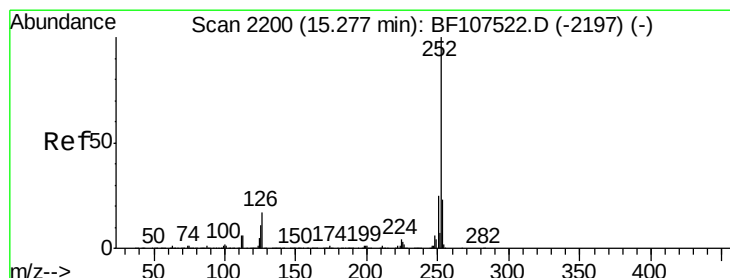
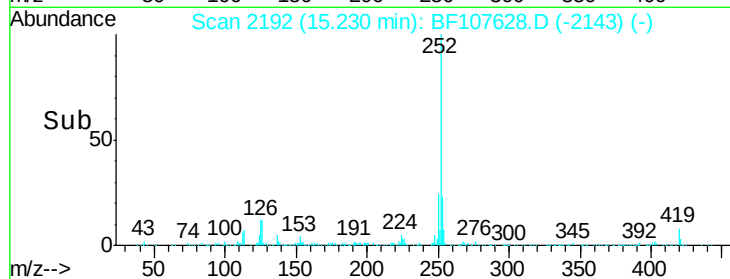
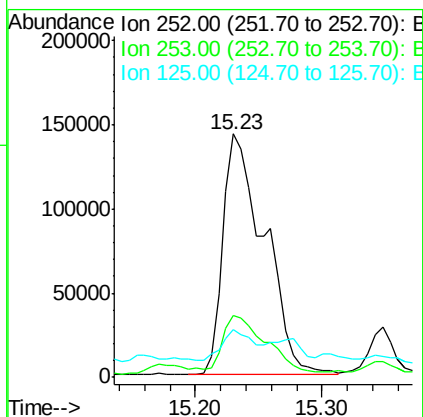
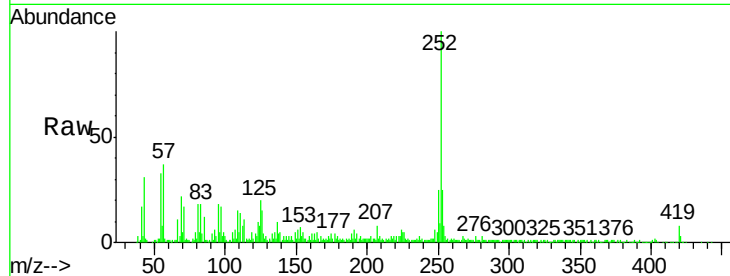




#87
Benzo(b)fluoranthene
Concen: 15.321 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

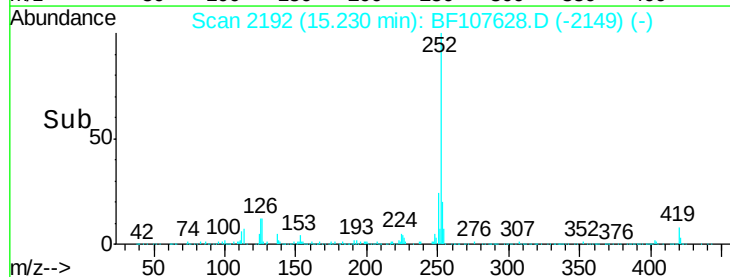
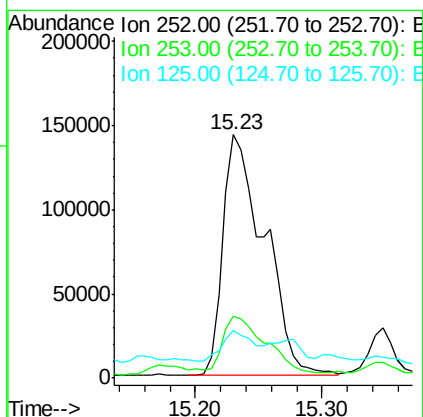
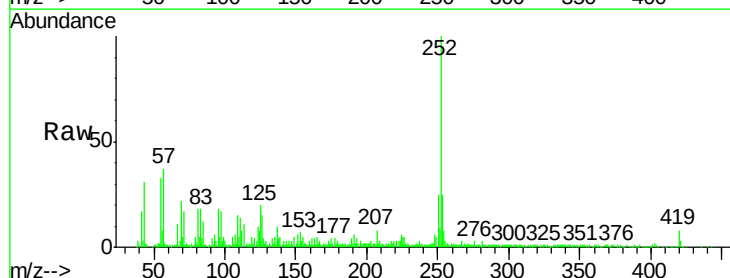
Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-01

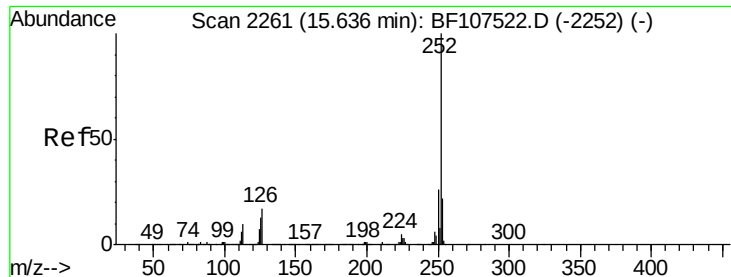
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.0	25.6
125	19.8	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 15.639 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.05 min
Lab File: BF107628.D
Acq: 24 Jul 2018 19:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	19.8	10.2	15.2





#89

Benzo(a)pyrene

Concen: 8.455 ng

RT: 15.62 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

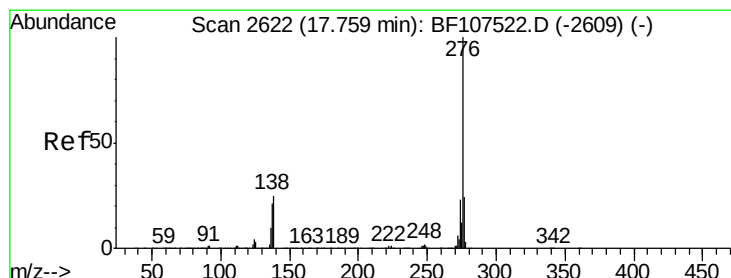
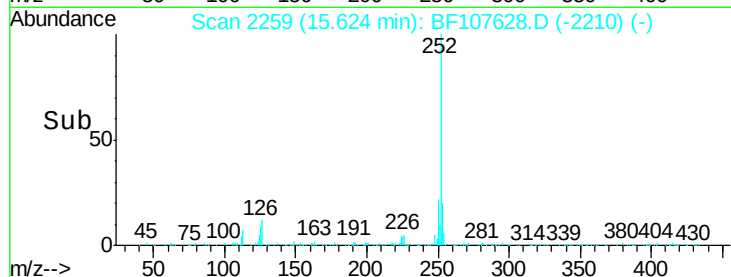
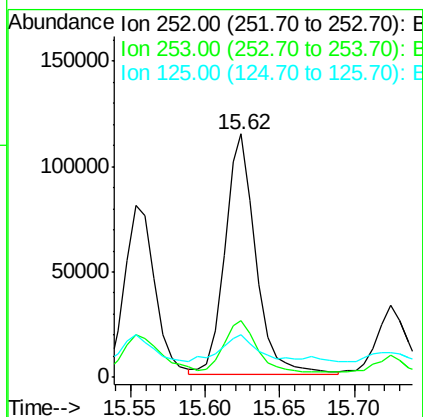
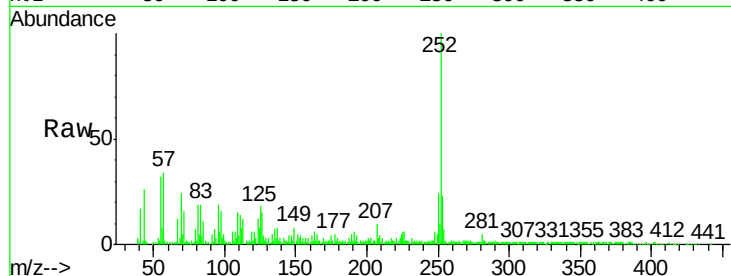
Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-01

Tgt Ion:	252	Resp:	164453
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.1	25.7
125	17.7	9.8	14.6#



#91

Benzo(g,h,i)perylene

Concen: 5.471 ng

RT: 17.75 min Scan# 2620

Delta R.T. -0.01 min

Lab File: BF107628.D

Acq: 24 Jul 2018 19:25

Tgt Ion:	276	Resp:	90741
Ion Ratio	Lower	Upper	
276	100		
277	24.1	17.9	26.9
138	23.3	21.8	32.8

