

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041919\
 Data File : BF113856.D
 Acq On : 19 Apr 2019 14:12
 Operator : JU/SJ
 Sample : K2413-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-CR

Quant Time: Apr 19 23:22:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 13:55:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	184440	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	607759	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	261145	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	484476	20.00	ng	0.00
76) Chrysene-d12	14.05	240	535114	20.00	ng	0.00
87) Perylene-d12	15.53	264	510589	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	992561	89.48	ng	0.01
7) Phenol-d6	6.52	99	1217030	87.98	ng	0.00
23) Nitrobenzene-d5	7.45	82	717170	71.86	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	281288	97.49	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1211121	70.73	ng	0.00
79) Terphenyl-d14	13.00	244	1422994	55.76	ng	0.00

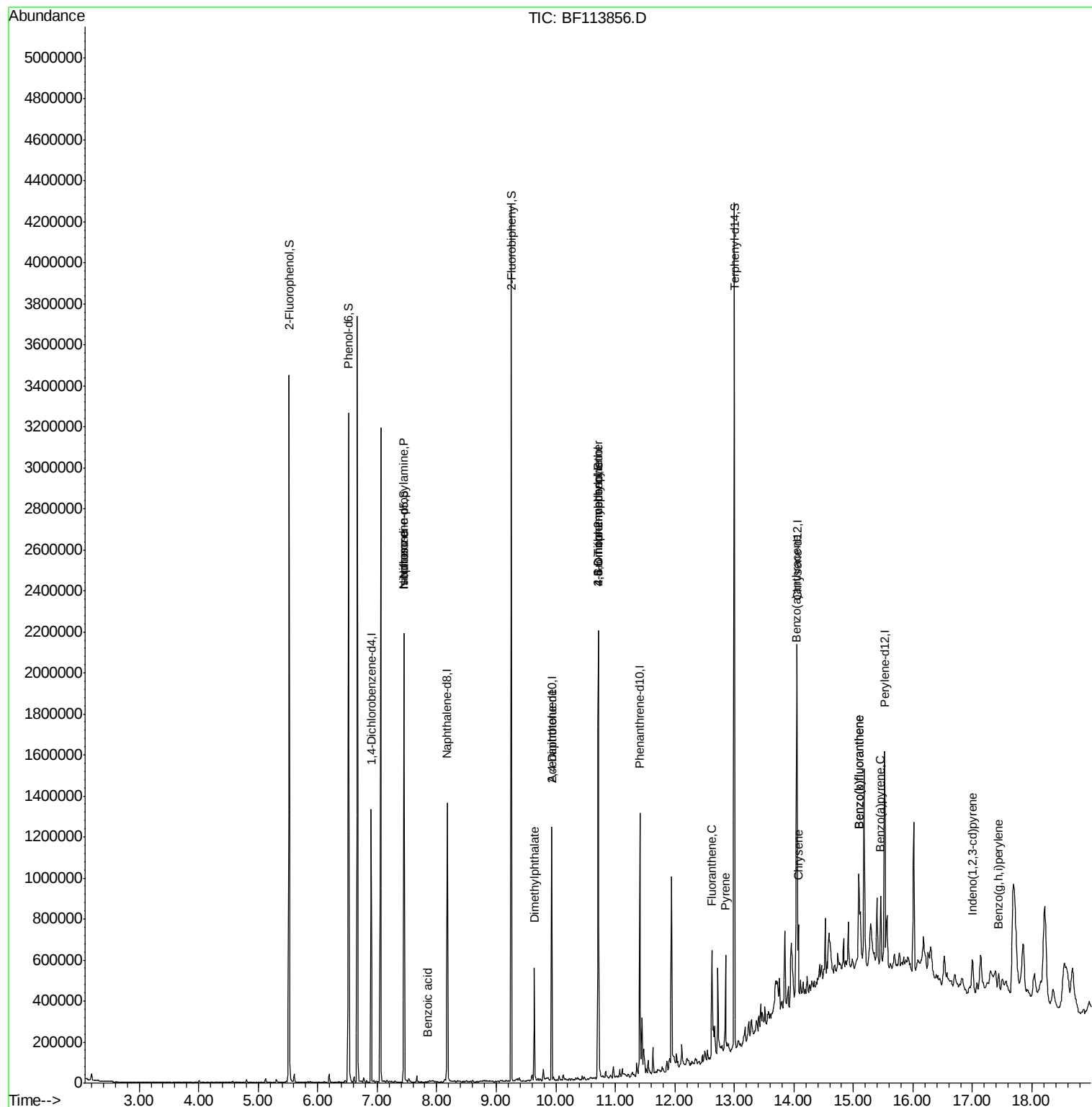
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.45	77	1748	Below Cal		85
19) n-Nitroso-di-n-propylamine	7.45	70	95938	10.390	ng	# 79
25) Isophorone	7.45	82	717154	34.706	ng	# 65
32) Benzoic acid	7.85	122	648	6.027	ng	# 78
50) Dimethylphthalate	9.64	163	189129	10.349	ng	99
57) 2,4-Dinitrotoluene	9.93	165	33913	6.777	ng	# 29
65) 4,6-Dinitro-2-methylphenol	10.72	198	412	7.103	ng	# 1
67) 4-Bromophenyl-phenylether	10.72	248	17416	3.061	ng	# 1
75) Fluoranthene	12.62	202	175132	6.697	ng	97
78) Pyrene	12.85	202	180784	4.794	ng	98
81) Benzo(a)anthracene	14.04	228	139993	4.475	ng	94
83) Chrysene	14.07	228	154609	4.980	ng	96
86) Indeno(1,2,3-cd)pyrene	17.00	276	99447	3.924	ng	95
88) Benzo(b)fluoranthene	15.09	252	343723	10.799	ng	# 94
89) Benzo(k)fluoranthene	15.09	252	343723	11.856	ng	# 95
90) Benzo(a)pyrene	15.46	252	159971	5.684	ng	94
92) Benzo(g,h,i)perylene	17.44	276	90372	3.550	ng	98

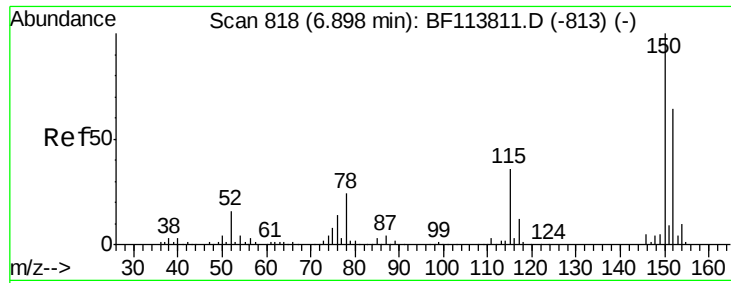
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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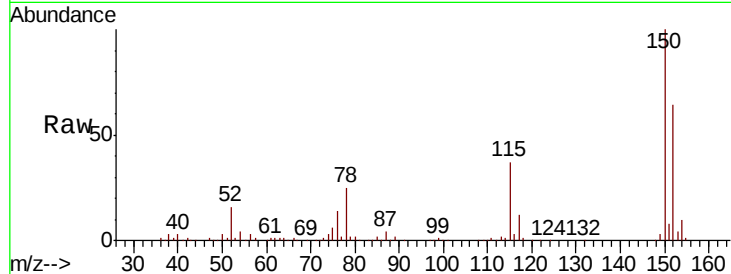


#1

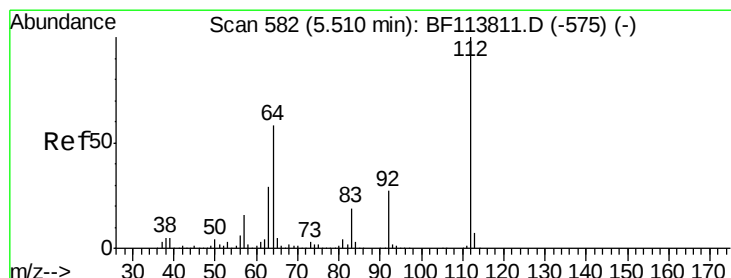
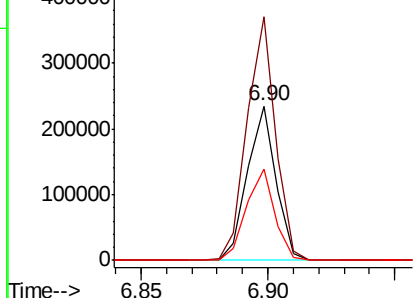
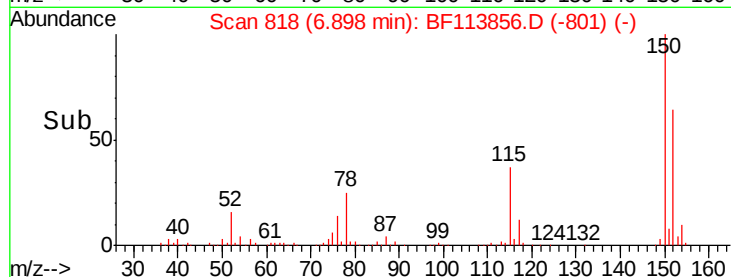
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF113856.D
Acq: 19 Apr 2019 14:12

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-CR

Tgt Ion:152 Resp: 184440
Ion Ratio Lower Upper
152 100
150 157.4 125.9 188.9
115 58.8 45.9 68.9



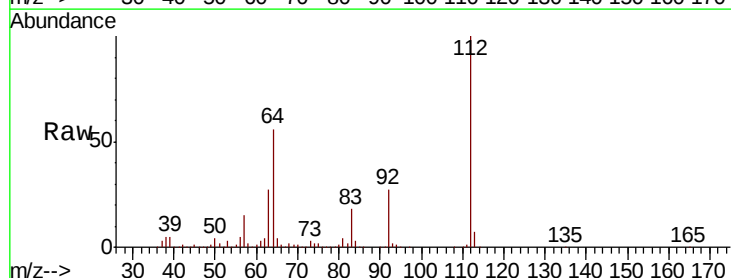
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



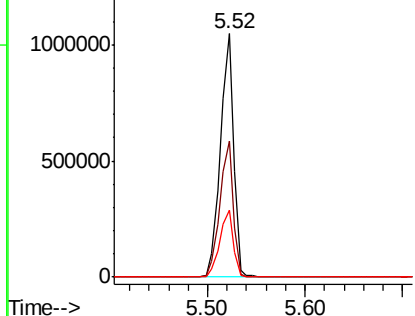
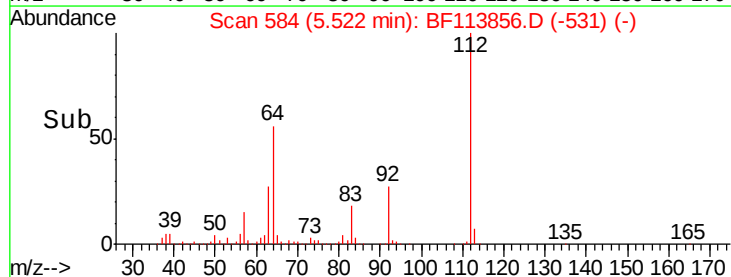
#5

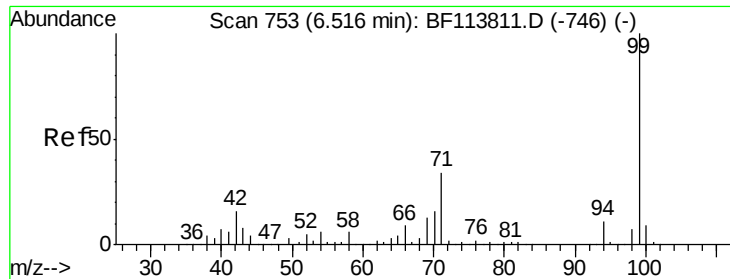
2-Fluorophenol
Concen: 89.482 ng
RT: 5.52 min Scan# 584
Delta R.T. 0.01 min
Lab File: BF113856.D
Acq: 19 Apr 2019 14:12

Tgt Ion:112 Resp: 992561
Ion Ratio Lower Upper
112 100
64 56.2 46.6 69.8
63 27.4 23.1 34.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 87.981 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.01 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-CR

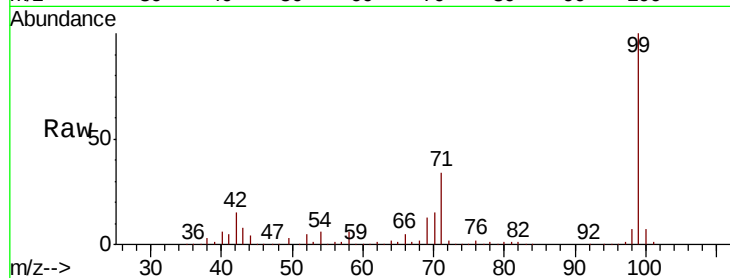
Tgt Ion: 99 Resp: 1217030

Ion Ratio Lower Upper

99 100

42 15.4 12.5 18.7

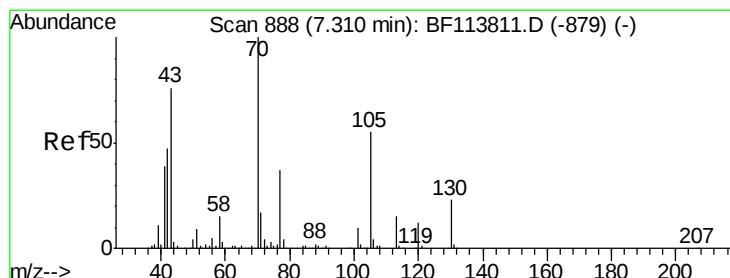
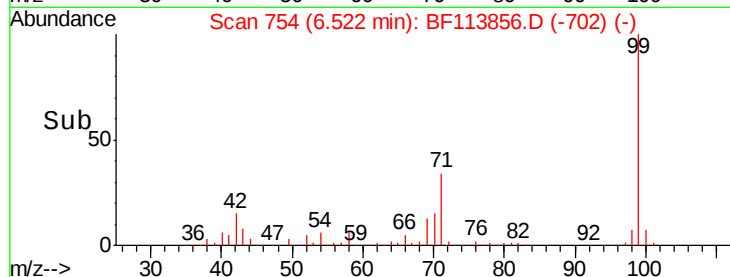
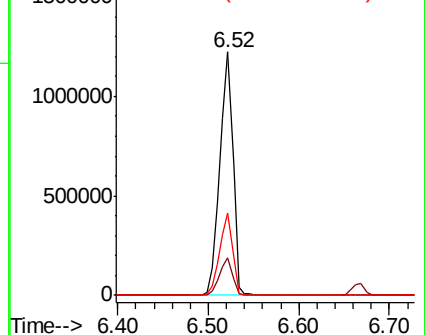
71 34.0 26.9 40.3



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.390 ng

RT: 7.45 min Scan# 912

Delta R.T. 0.14 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Tgt Ion: 70 Resp: 95938

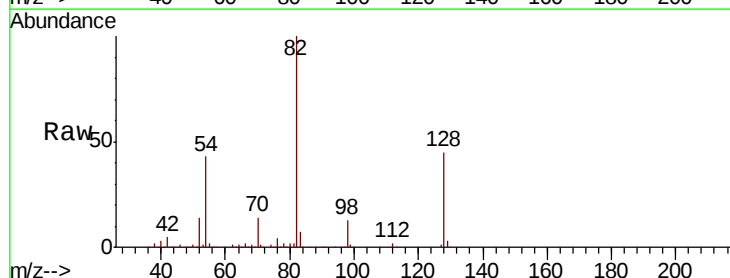
Ion Ratio Lower Upper

70 100

42 40.1 37.3 55.9

101 0.0 7.8 11.8#

130 2.1 18.2 27.2#

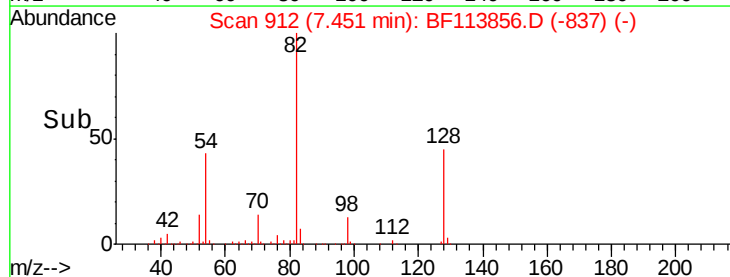
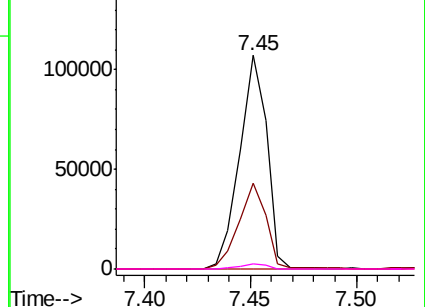


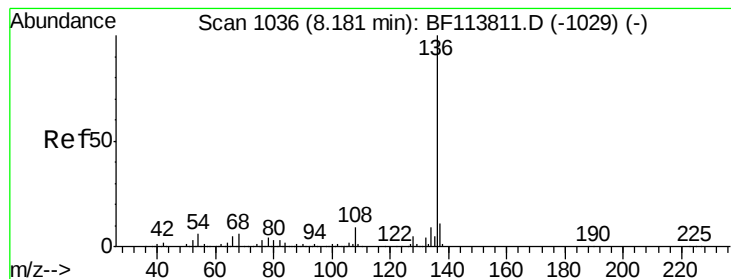
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Instrument :

BNA_F

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NCC-TOPSOIL-CR

Tgt Ion: 136 Resp: 607759

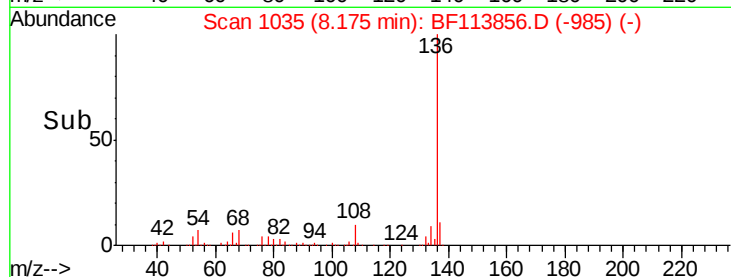
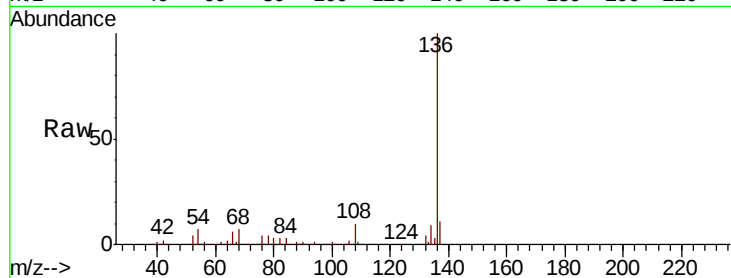
Ion Ratio Lower Upper

136 100

137 11.4 8.6 12.8

54 7.0 5.0 7.6

68 6.9 4.9 7.3

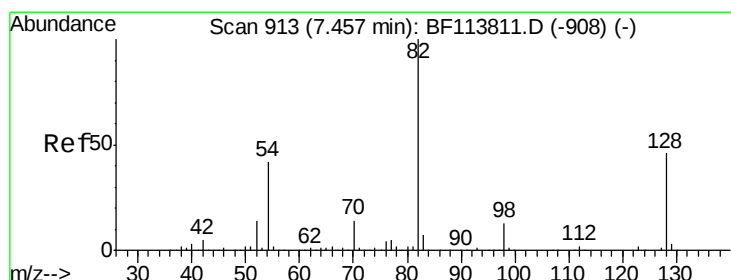
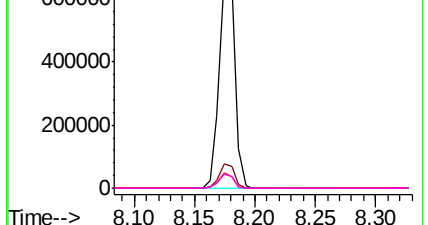


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 71.859 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

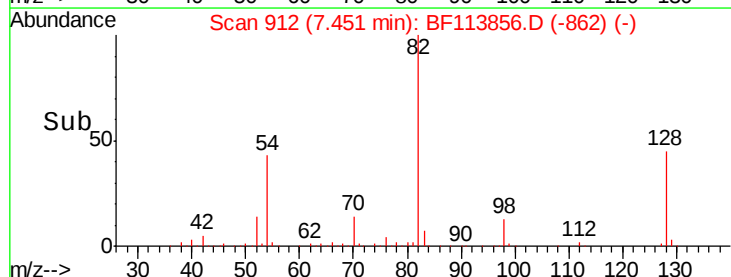
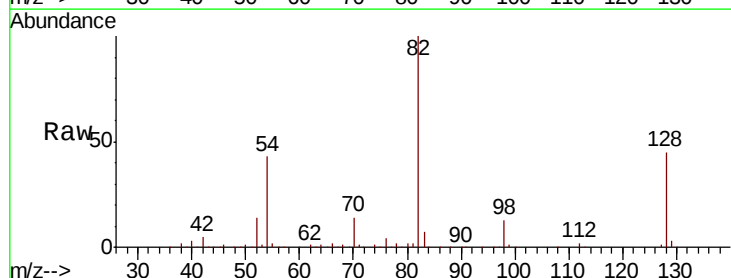
Tgt Ion: 82 Resp: 717170

Ion Ratio Lower Upper

82 100

128 45.3 36.8 55.2

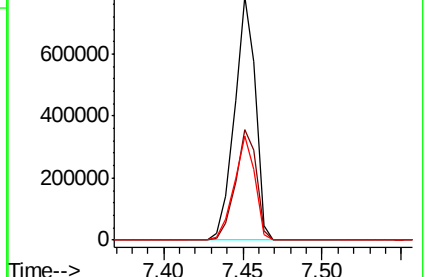
54 42.8 33.8 50.6

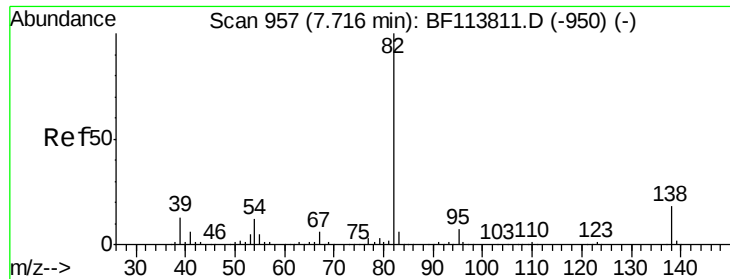


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.706 ng

RT: 7.45 min Scan# 912

Delta R.T. -0.26 min

Lab File: BF113856.D

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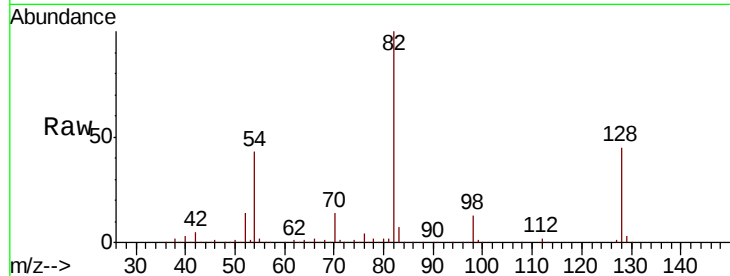
Tgt Ion: 82 Resp: 717154

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

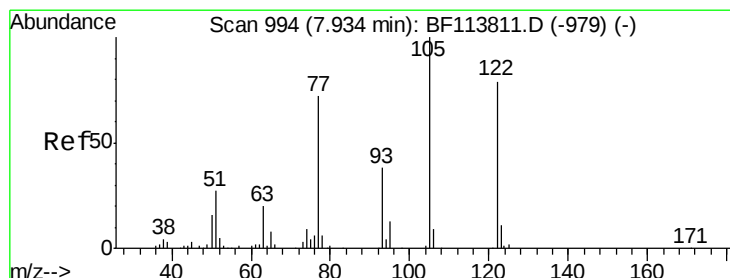
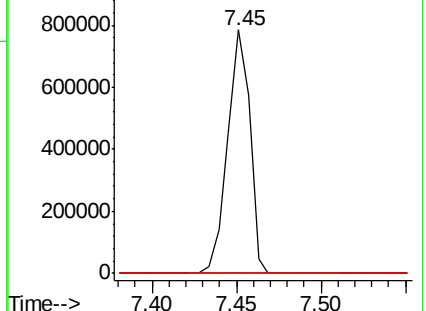
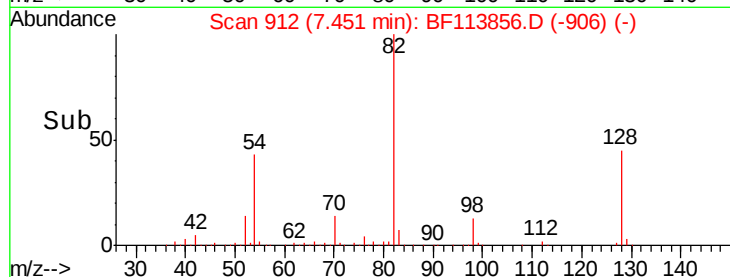
138 0.0 14.6 22.0#



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: 6.027 ng

RT: 7.85 min Scan# 980

Delta R.T. -0.08 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

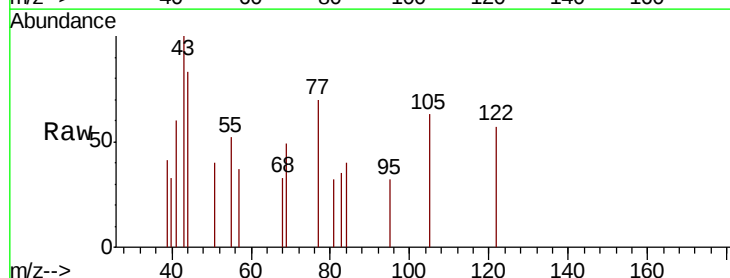
Tgt Ion: 122 Resp: 648

Ion Ratio Lower Upper

122 100

105 110.5 104.3 144.3

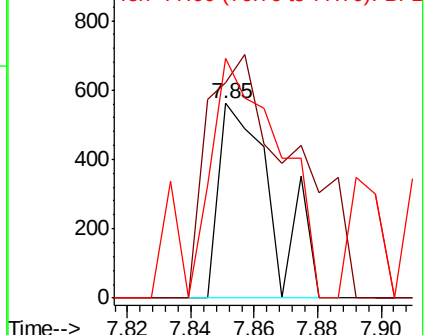
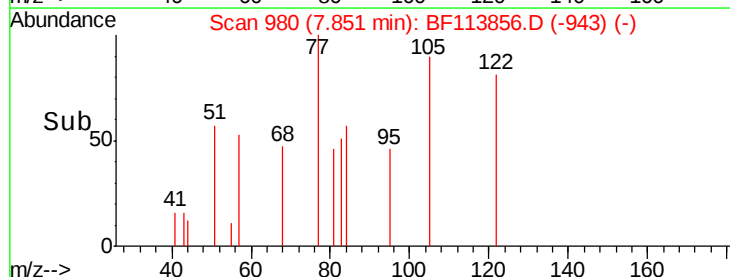
77 123.2 70.4 110.4#

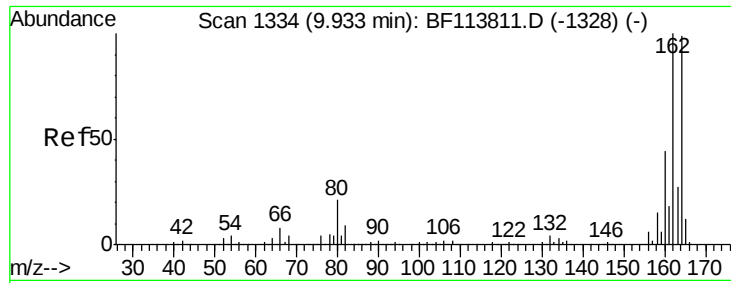


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

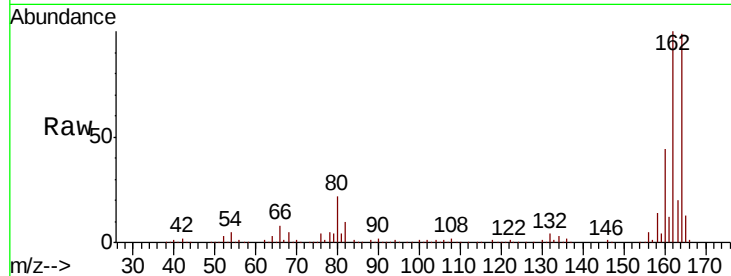




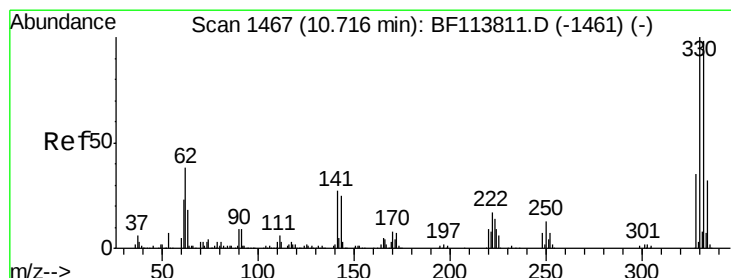
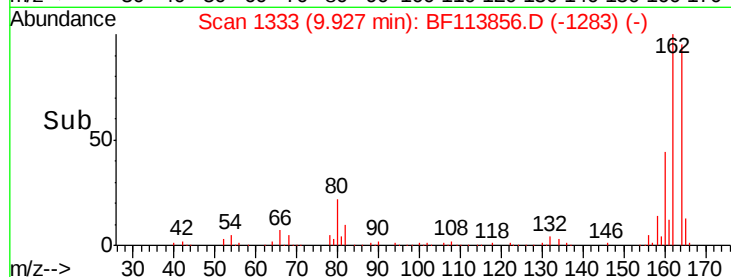
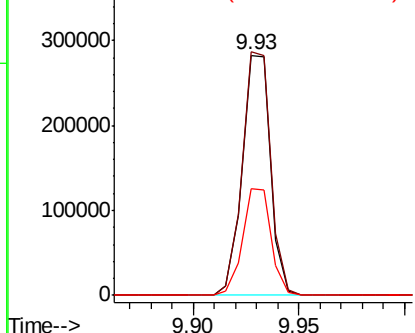
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Instrument :
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 NCC-TOPSOIL-CR

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.1	121.7
160	44.5	35.8	53.6

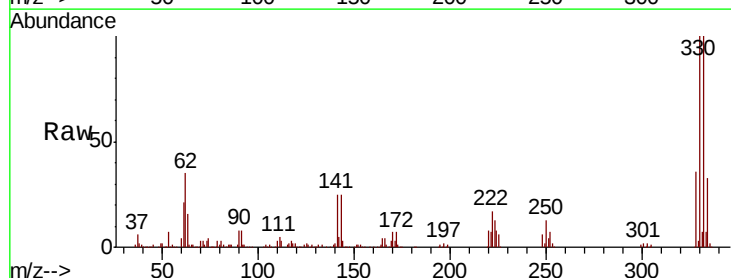


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

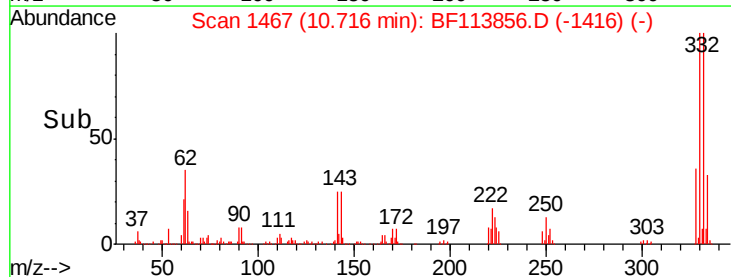
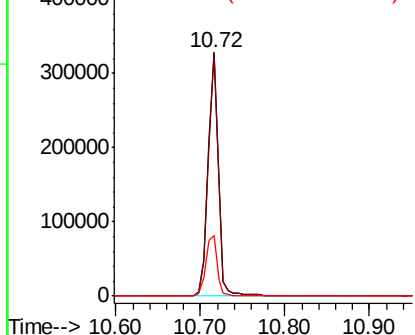


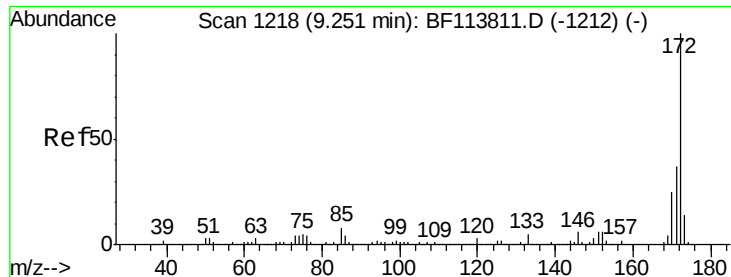
#42
 2,4,6-Tribromophenol
 Concen: 97.494 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.00 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.5	116.3
141	27.3	22.2	33.2



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

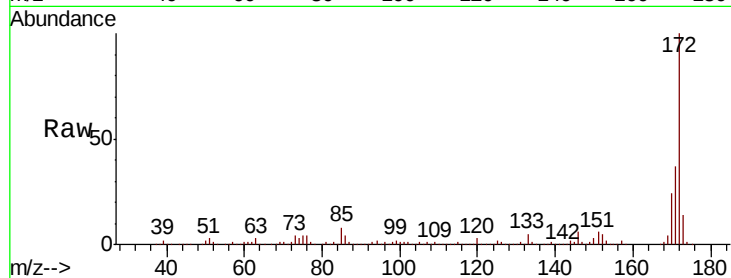




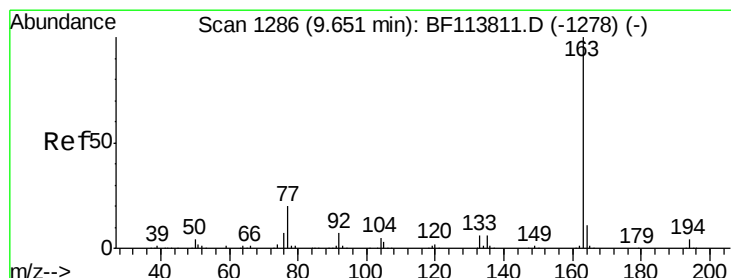
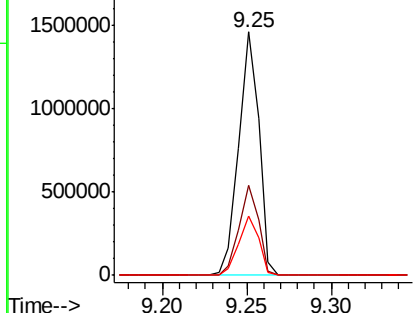
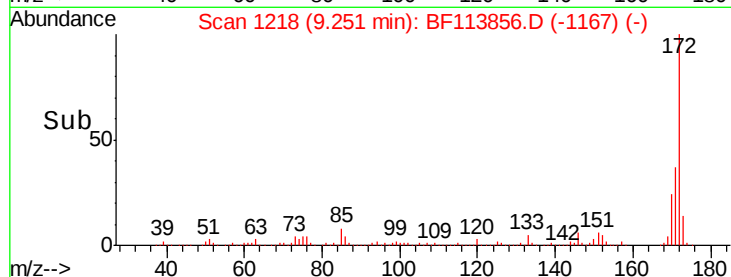
#45
 2-Fluorobiphenyl
 Concen: 70.727 ng
 RT: 9.25 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Instrument :
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 NCC-TOPSOIL-CR

Tgt Ion:172 Resp: 1211121
 Ion Ratio Lower Upper
 172 100
 171 36.9 29.4 44.0
 170 24.3 19.9 29.9

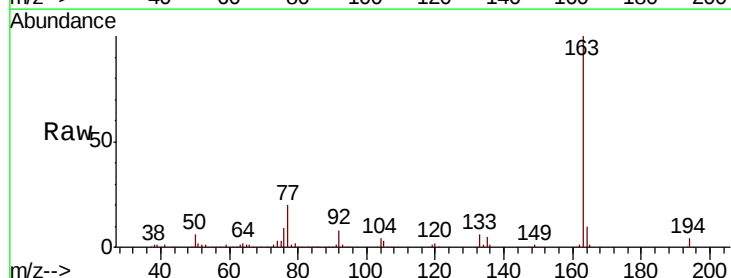


Abundance Ion 172.00 (171.70 to 172.70): E
 2000000 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

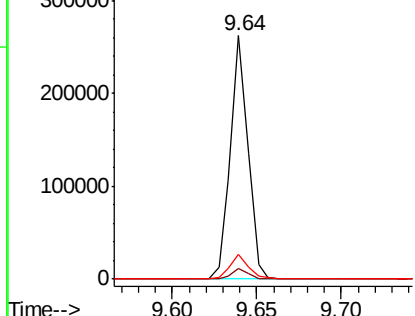
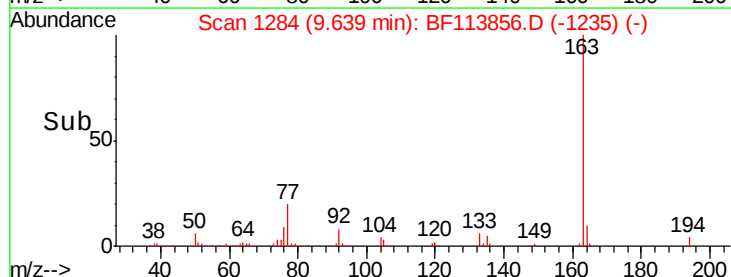


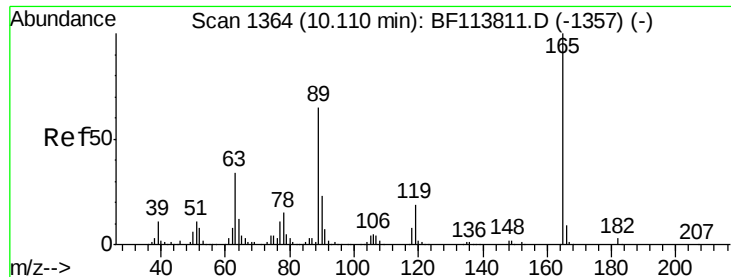
#50
 Dimethylphthalate
 Concen: 10.349 ng
 RT: 9.64 min Scan# 1284
 Delta R.T. -0.01 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion:163 Resp: 189129
 Ion Ratio Lower Upper
 163 100
 194 4.1 3.4 5.2
 164 10.2 8.5 12.7



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

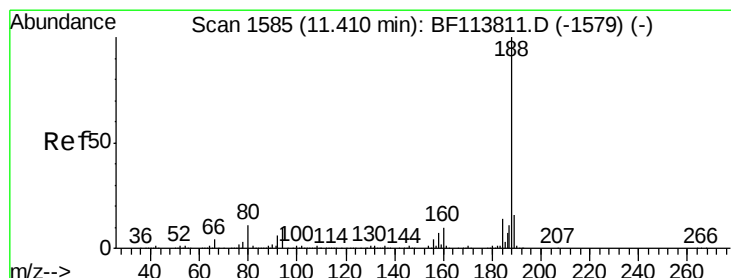
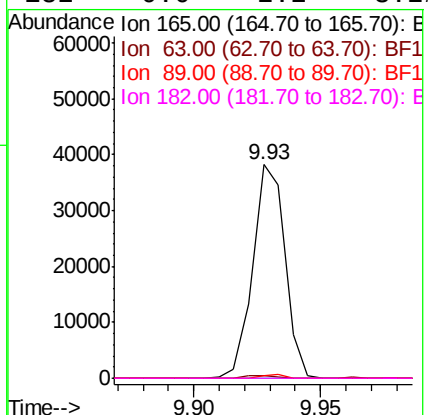
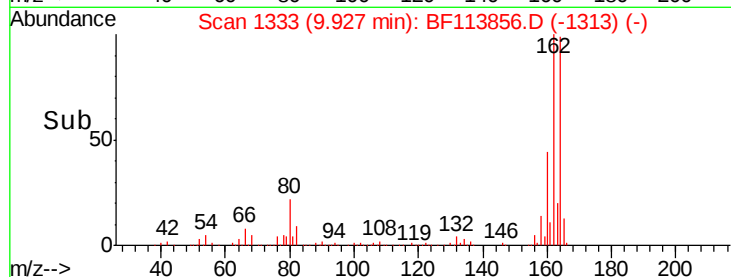
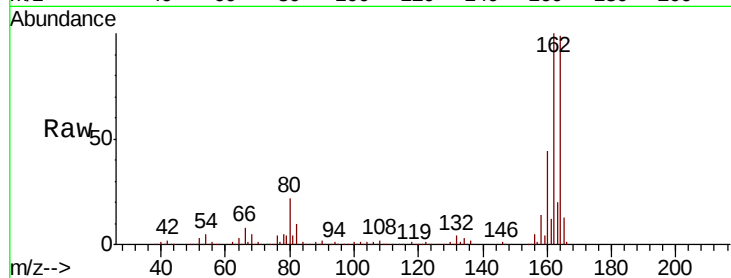




#57
 2,4-Dinitrotoluene
 Concen: 6.777 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.18 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

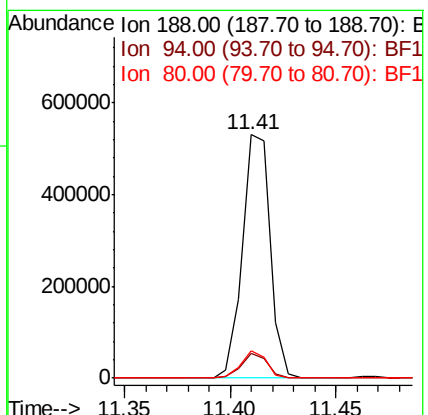
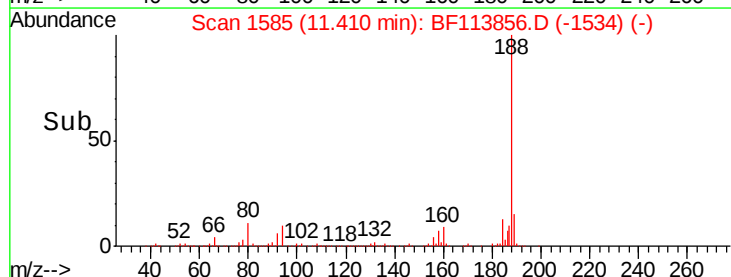
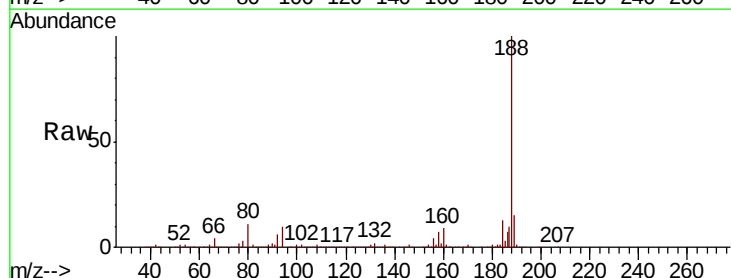
Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-CR

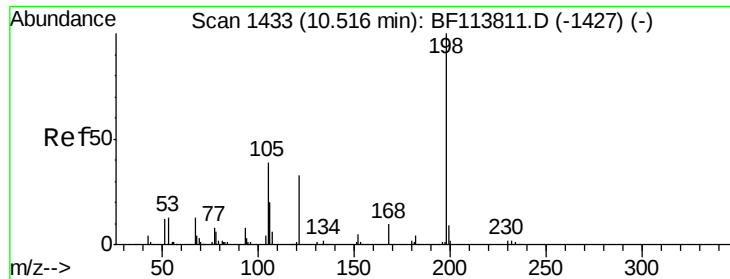
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	27.4	41.0#
89	1.0	51.8	77.6#
182	0.0	2.2	3.2#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.4
80	11.3	9.0	13.6

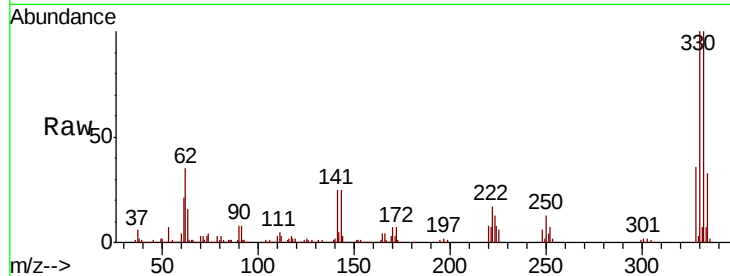




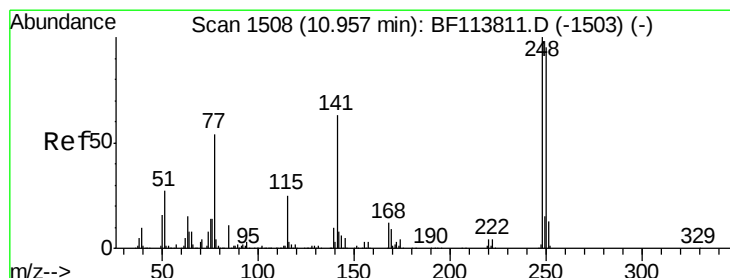
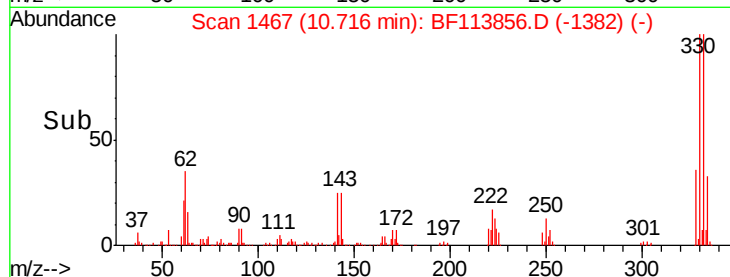
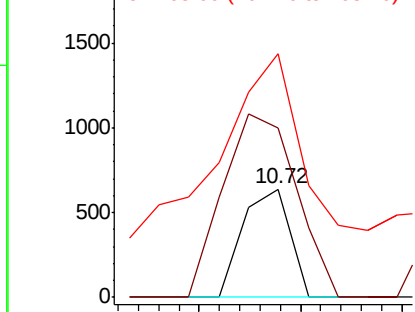
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.103 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. 0.20 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-CR

Tgt Ion:198 Resp: 412
 Ion Ratio Lower Upper
 198 100
 51 156.3 11.1 51.1#
 105 224.9 20.7 60.7#

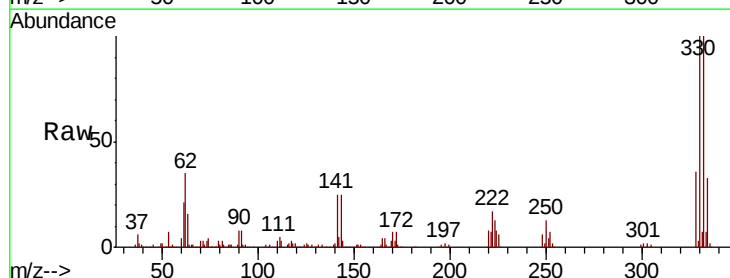


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

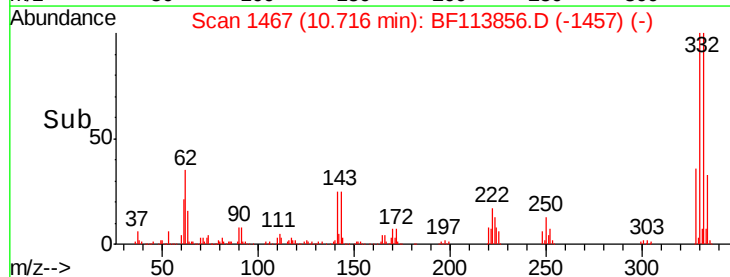
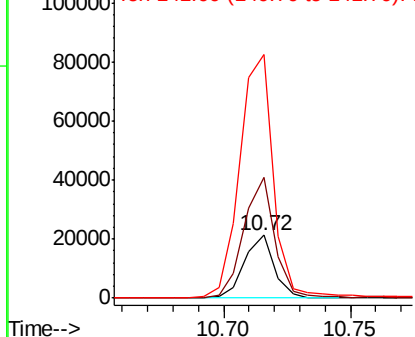


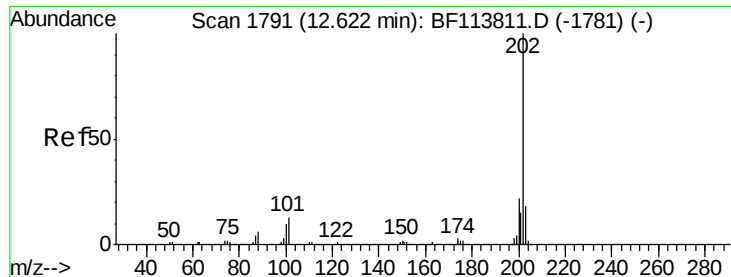
#67
 4-Bromophenyl-phenylether
 Concen: 3.061 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.24 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion:248 Resp: 17416
 Ion Ratio Lower Upper
 248 100
 250 194.2 75.8 113.6#
 141 389.5 50.2 75.4#



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





#75

Fluoranthene

Concen: 6.697 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-CR

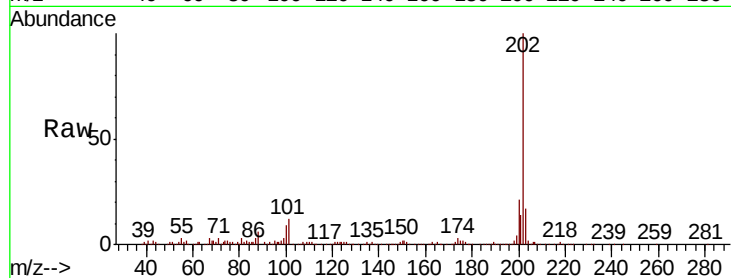
Tgt Ion:202 Resp: 175132

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.9

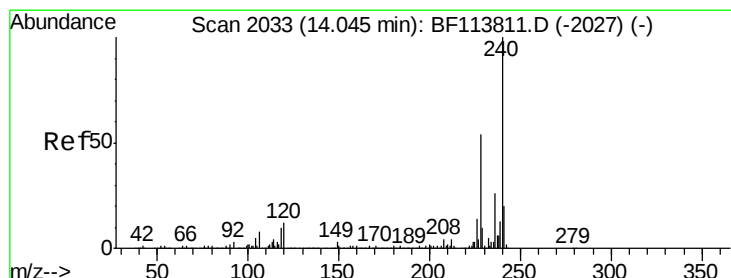
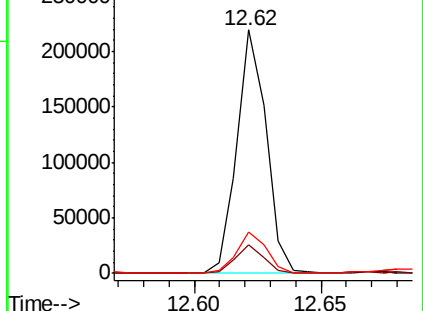
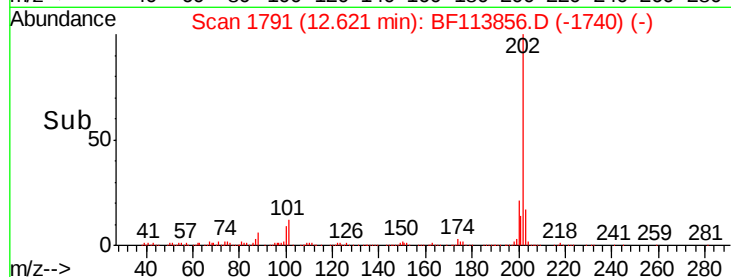
203 17.2 0.0 38.2



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.01 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

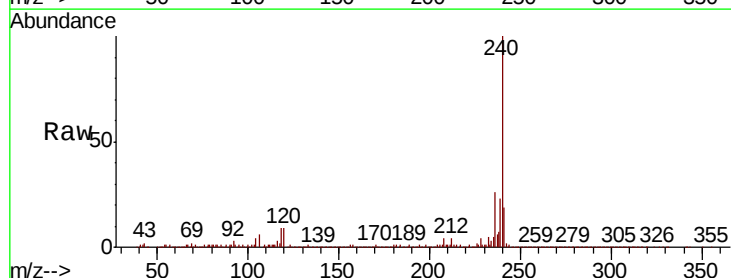
Tgt Ion:240 Resp: 535114

Ion Ratio Lower Upper

240 100

120 9.5 9.3 13.9

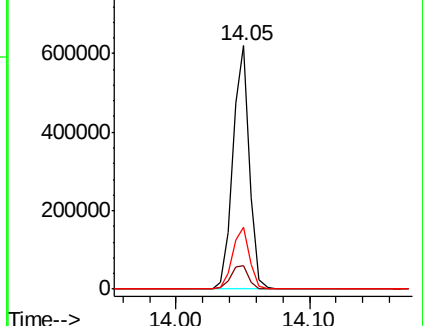
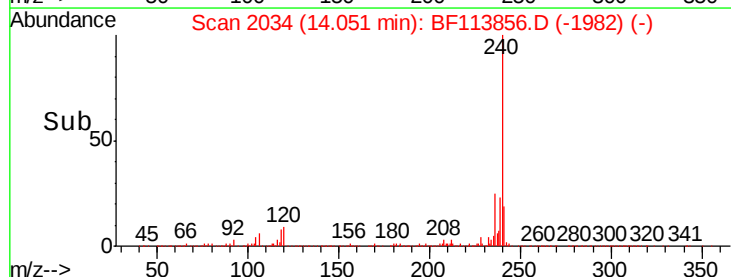
236 25.6 21.2 31.8

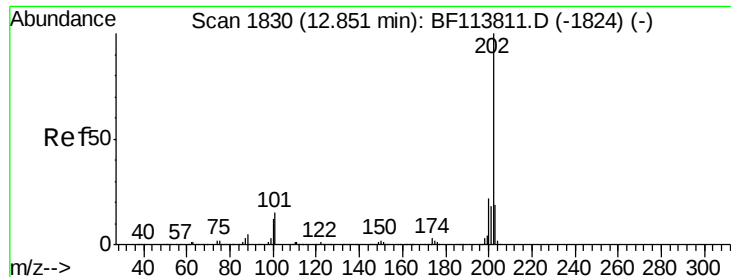


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

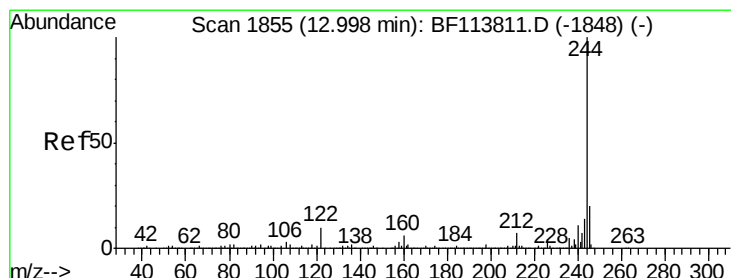
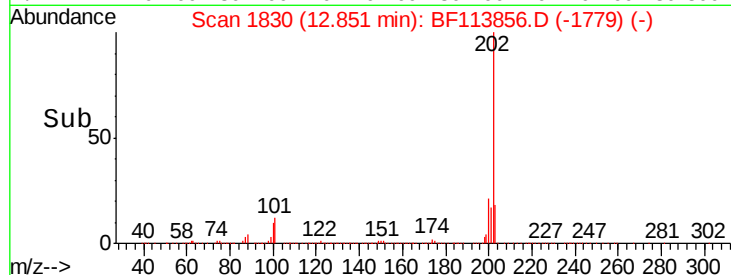
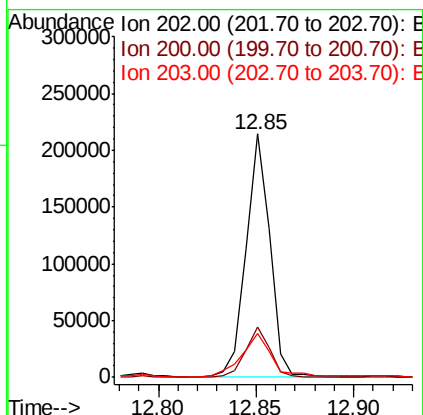
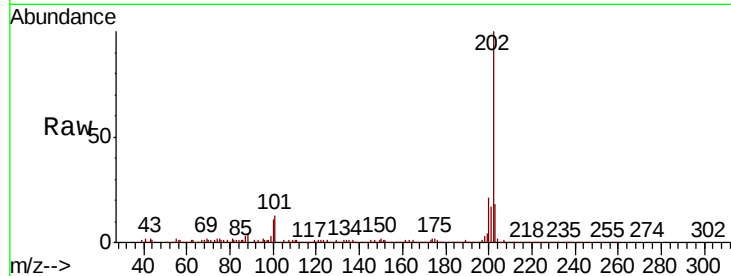




#78
 Pyrene
 Concen: 4.794 ng
 RT: 12.85 min Scan# 1830
 Delta R.T. -0.00 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

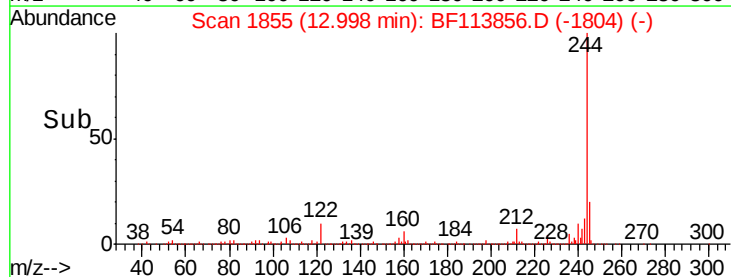
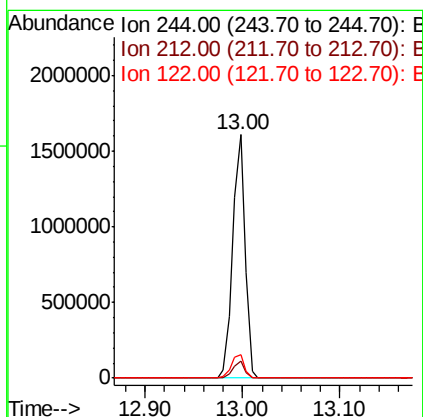
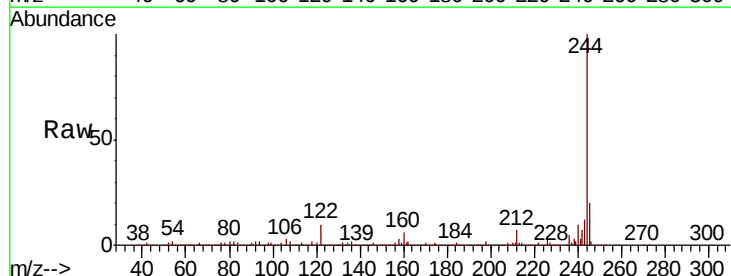
Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-CR

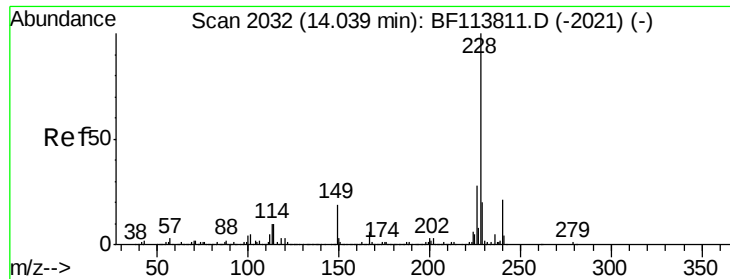
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.7	26.5
203	18.2	15.0	22.6



#79
 Terphenyl-d14
 Concen: 55.763 ng
 RT: 13.00 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	9.7	7.6	11.4

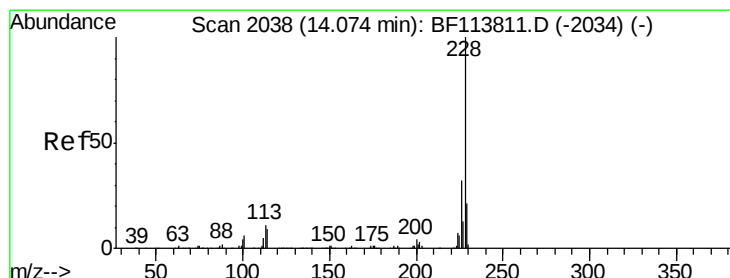
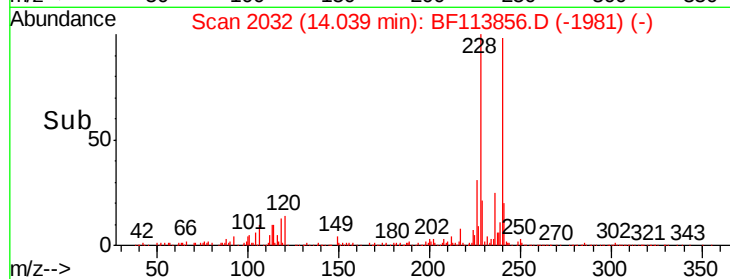
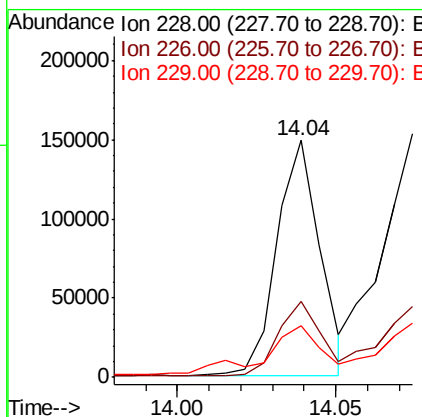
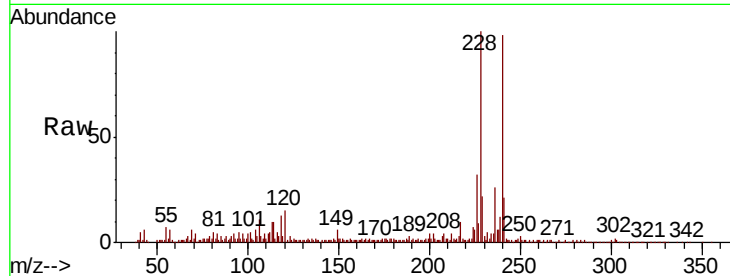




#81
Benzo(a)anthracene
Concen: 4.475 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF113856.D
Acq: 19 Apr 2019 14:12

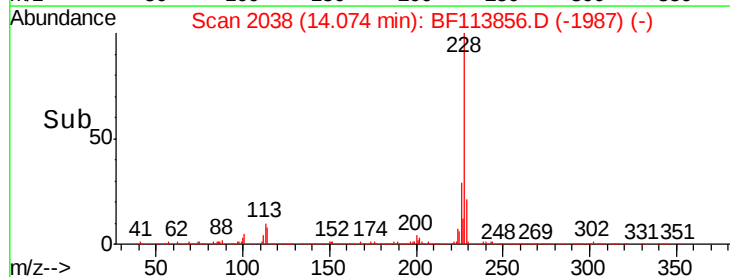
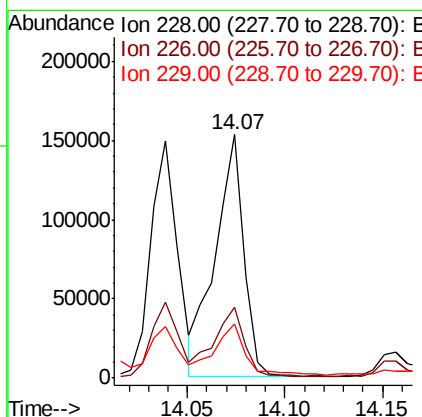
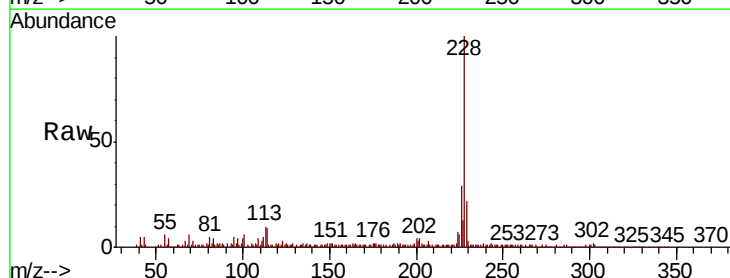
Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-CR

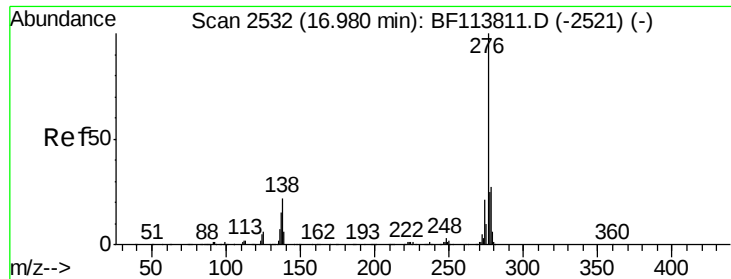
Tgt Ion:228 Resp: 139993
Ion Ratio Lower Upper
228 100
226 31.8 22.2 33.2
229 21.9 16.0 24.0



#83
Chrysene
Concen: 4.980 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF113856.D
Acq: 19 Apr 2019 14:12

Tgt Ion:228 Resp: 154609
Ion Ratio Lower Upper
228 100
226 29.1 25.2 37.8
229 22.2 16.7 25.1

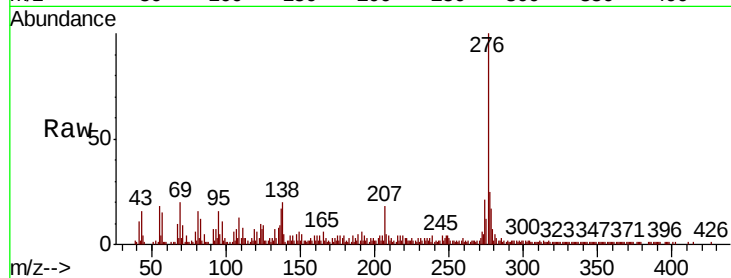




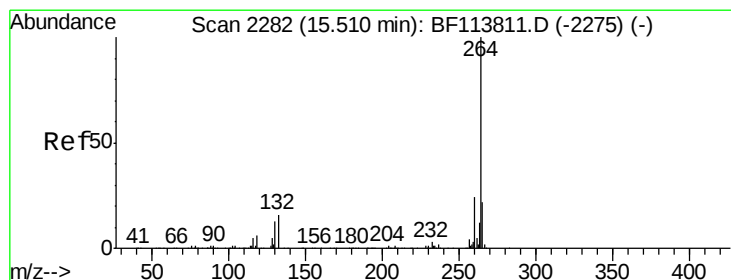
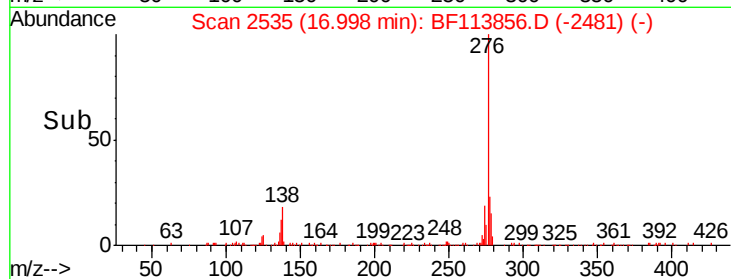
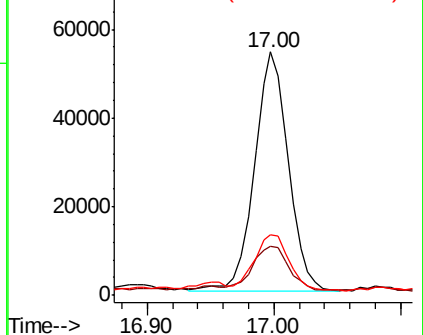
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.924 ng
 RT: 17.00 min Scan# 2535
 Delta R.T. 0.02 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-CR

Tgt Ion: 276 Resp: 99447
 Ion Ratio Lower Upper
 276 100
 138 19.7 19.6 29.4
 277 24.6 20.2 30.4

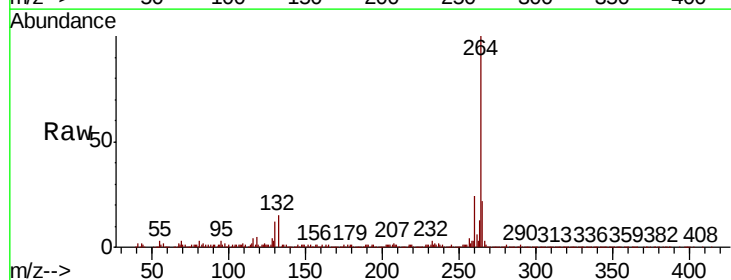


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

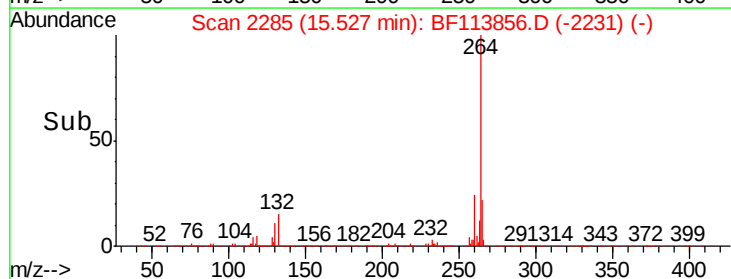
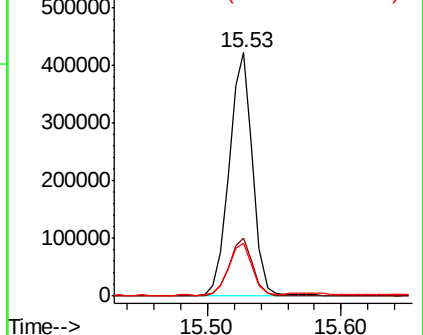


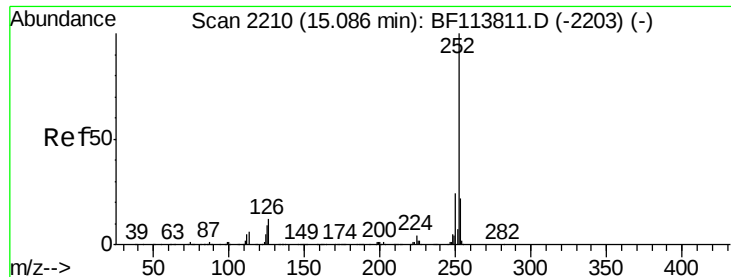
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.53 min Scan# 2285
 Delta R.T. 0.02 min
 Lab File: BF113856.D
 Acq: 19 Apr 2019 14:12

Tgt Ion: 264 Resp: 510589
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.9 28.3
 265 22.0 17.3 25.9



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





#88

Benzo(b)fluoranthene

Concen: 10.799 ng

RT: 15.09 min Scan# 2211

Delta R.T. 0.01 min

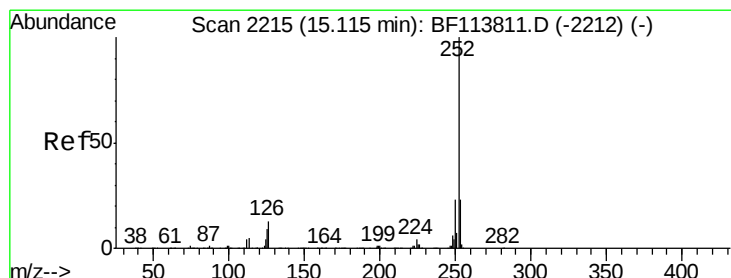
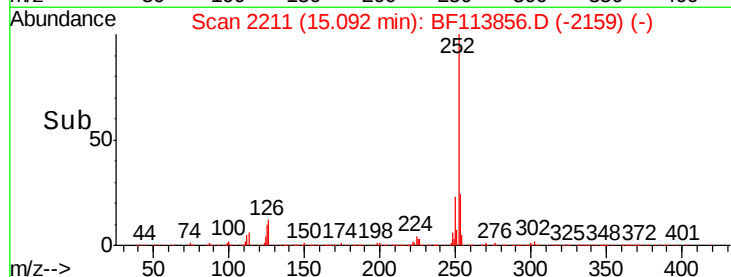
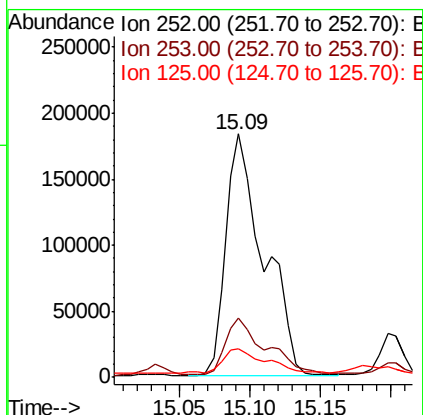
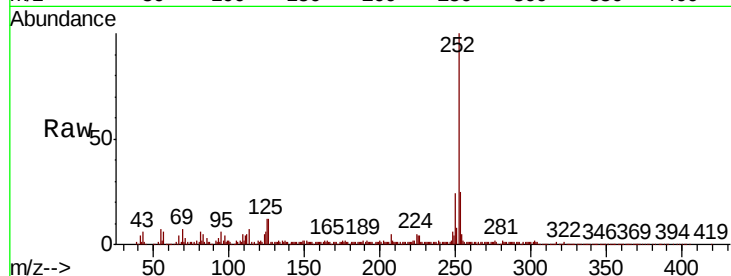
Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-CR

Tgt Ion: 252 Resp: 343723

Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.8	26.6
125	11.6	7.0	10.6



#89

Benzo(k)fluoranthene

Concen: 11.856 ng

RT: 15.09 min Scan# 2211

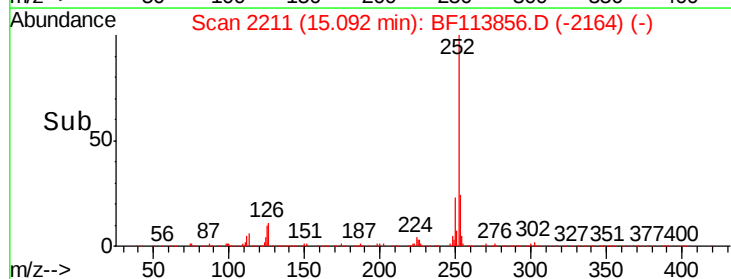
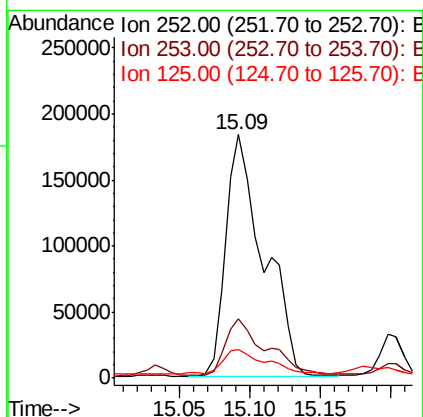
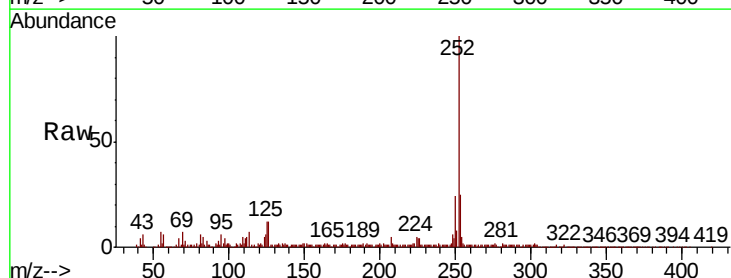
Delta R.T. -0.02 min

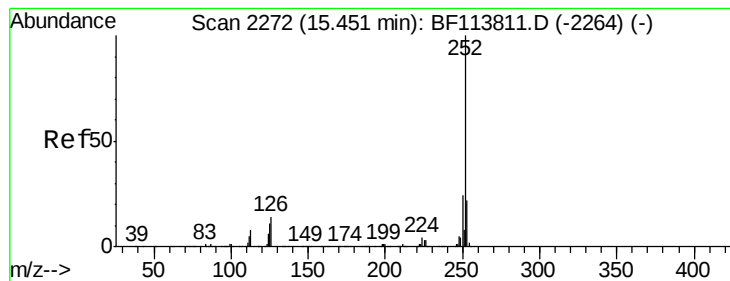
Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Tgt Ion: 252 Resp: 343723

Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.2
125	11.6	7.4	11.2





#90

Benzo(a)pyrene

Concen: 5.684 ng

RT: 15.46 min Scan# 2273

Delta R.T. 0.01 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-CR

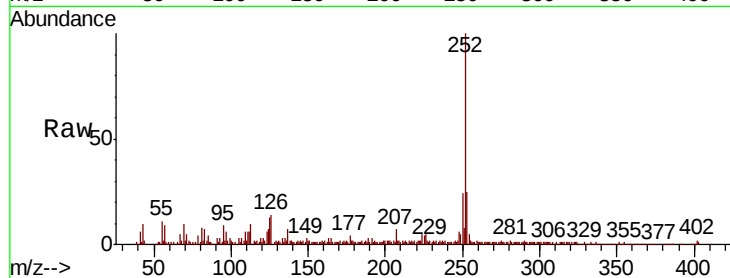
Tgt Ion:252 Resp: 159971

Ion Ratio Lower Upper

252 100

253 24.7 17.5 26.3

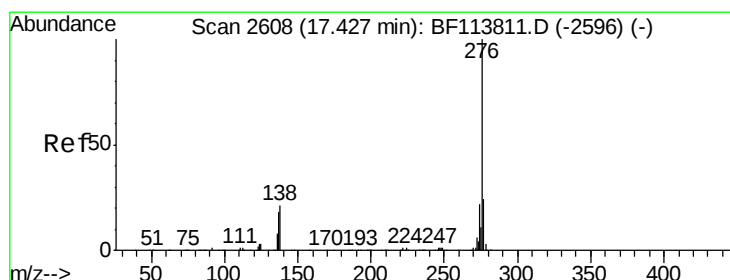
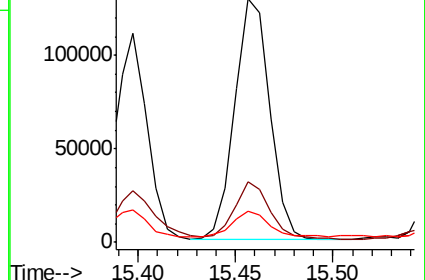
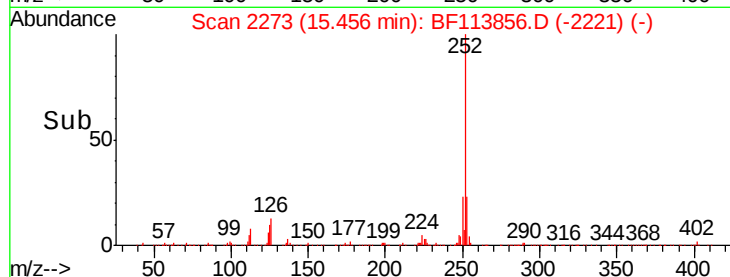
125 12.7 8.5 12.7



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



#92

Benzo(g,h,i)perylene

Concen: 3.550 ng

RT: 17.44 min Scan# 2611

Delta R.T. 0.02 min

Lab File: BF113856.D

Acq: 19 Apr 2019 14:12

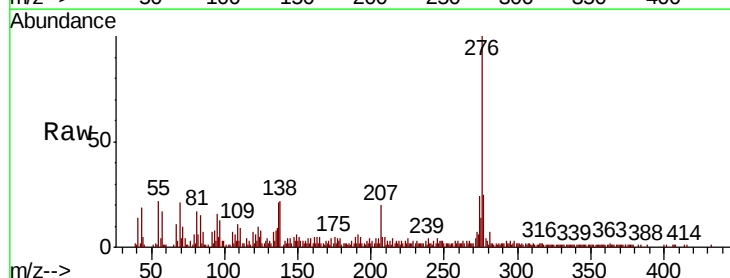
Tgt Ion:276 Resp: 90372

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.4

138 22.2 16.6 25.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

