

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\
 Data File : BF118913.D
 Acq On : 12 Feb 2020 13:42
 Operator : CG/JU
 Sample : L1491-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 00:00:35 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	204320	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	716227	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	335867	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	521174	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	556929	20.00	ng	-0.01
87) Perylene-d12	15.43	264	657653	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	940337	87.12	ng	0.00
7) Phenol-d6	6.45	99	1136735	84.84	ng	0.00
23) Nitrobenzene-d5	7.36	82	708422	58.96	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	304741	75.83	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	1223011	65.10	ng	-0.02
79) Terphenyl-d14	12.92	244	1368055	50.46	ng	-0.01

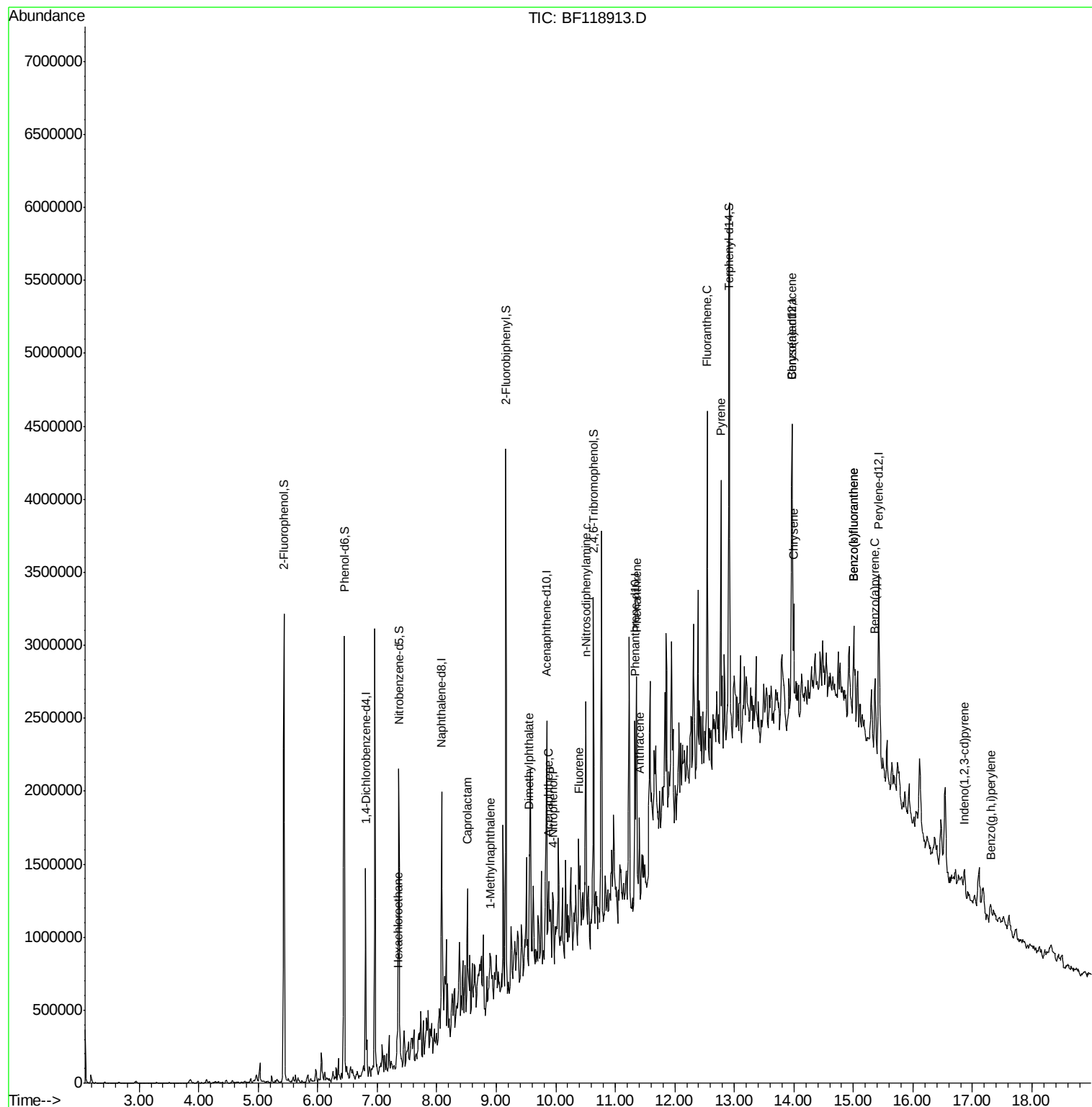
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.34	77	1351	Below Cal		# 1
18) Hexachloroethane	7.34	117	12227	2.387	ng	# 1
35) Caprolactam	8.52	113	25264	7.489	ng	# 34
38) 1-Methylnaphthalene	8.90	142	62810	2.939	ng	# 97
50) Dimethylphthalate	9.56	163	61782	2.702	ng	# 81
52) Acenaphthene	9.87	154	92330	5.024	ng	# 97
56) 4-Nitrophenol	9.95	139	10863	2.586	ng	# 25
58) Fluorene	10.39	166	108793	5.445	ng	# 92
66) n-Nitrosodiphenylamine	10.50	169	73978	4.900	ng	# 60
71) Phenanthrene	11.36	178	616896	24.058	ng	# 98
72) Anthracene	11.40	178	239199	9.377	ng	# 97
75) Fluoranthene	12.55	202	941262	33.620	ng	# 99
78) Pvrene	12.77	202	850274	22.255	ng	# 98
81) Benzo(a)anthracene	13.96	228	365767	11.037	ng	# 94
83) Chrysene	14.00	228	339551	10.208	ng	# 94
86) Indeno(1,2,3-cd)pyrene	16.86	276	113032	3.382	ng	# 97
88) Benzo(b)fluoranthene	15.00	252	448997	11.003	ng	# 90
89) Benzo(k)fluoranthene	15.00	252	448997	12.635	ng	# 89
90) Benzo(a)pvrene	15.36	252	244871	7.011	ng	# 90
92) Benzo(a,h,i)perylene	17.30	276	98034	3.288	ng	# 85

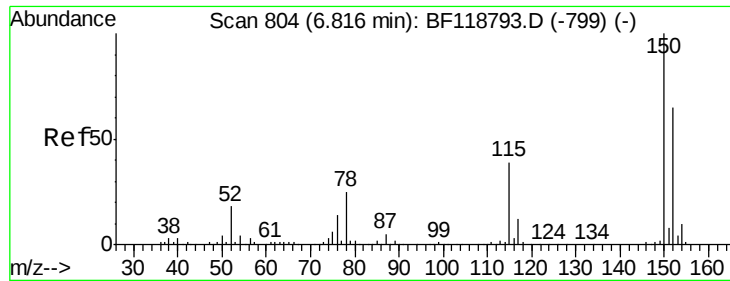
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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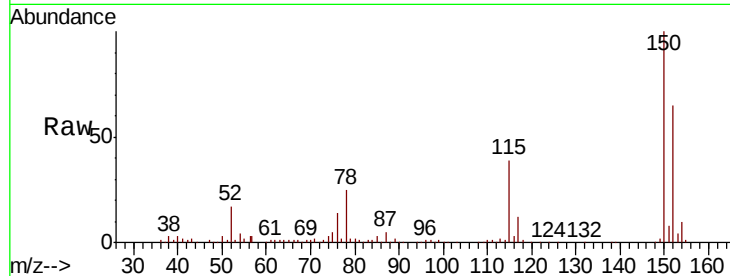


#1

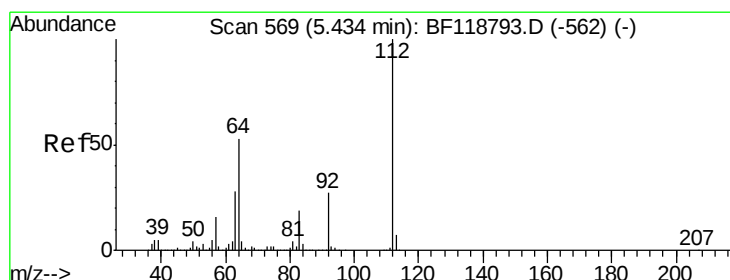
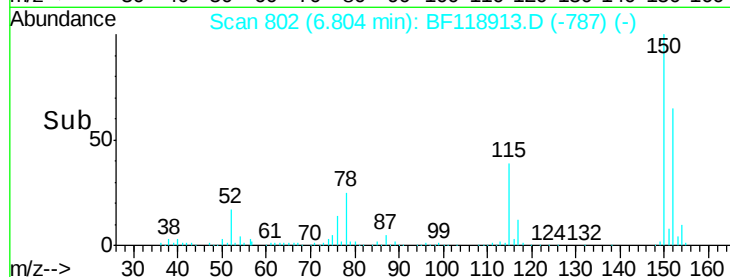
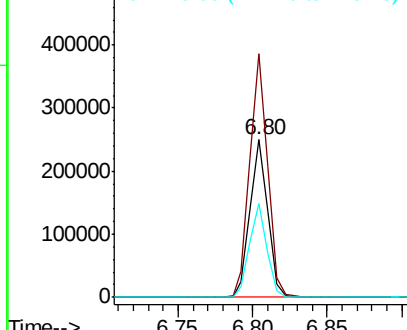
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 204320
Ion Ratio Lower Upper
152 100
150 154.4 123.6 185.4
115 59.5 48.2 72.2



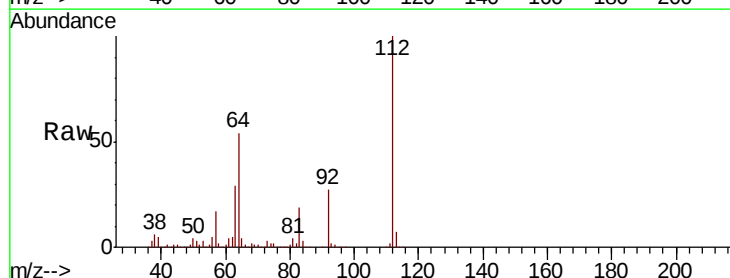
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



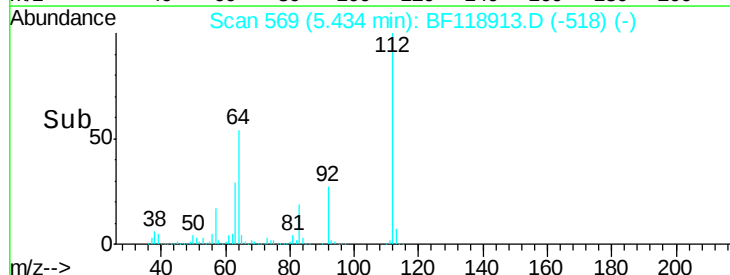
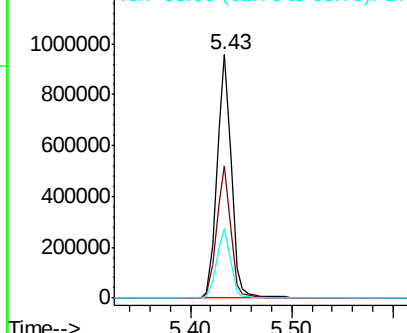
#5

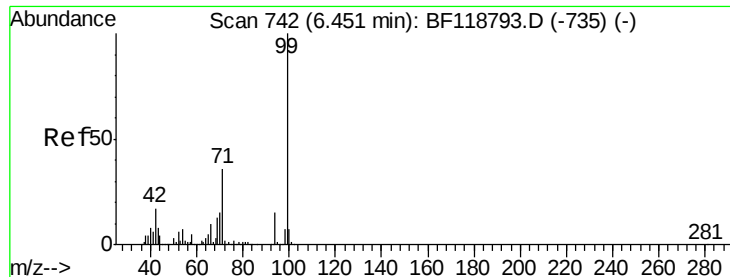
2-Fluorophenol
Concen: 87.118 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.00 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Tgt Ion:112 Resp: 940337
Ion Ratio Lower Upper
112 100
64 54.4 42.6 63.8
63 28.6 22.2 33.4



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: 84.837 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampled :

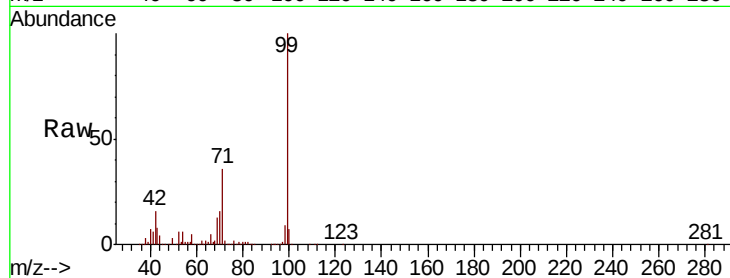
Tot Ion: 99 Resp: 1136735

Ion Ratio Lower Upper

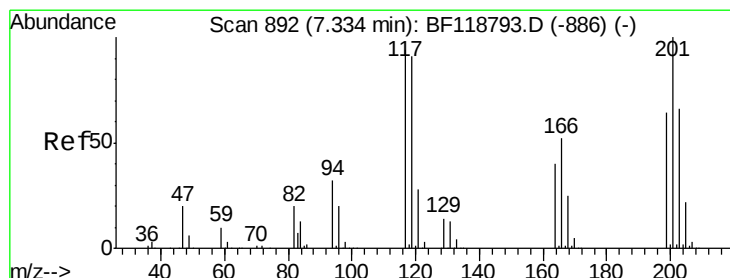
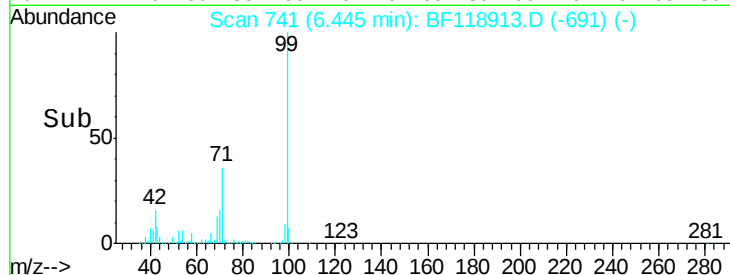
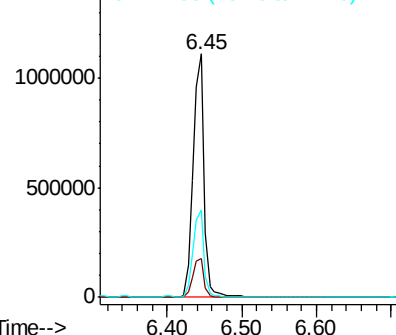
99 100

42 16.0 13.4 20.0

71 36.1 29.0 43.6



Abundance Ion 99.00 (98.70 to 99.70): BF1
1500000
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#18

Hexachloroethane

Concen: 2.387 ng

RT: 7.34 min Scan# 893

Delta R.T. 0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

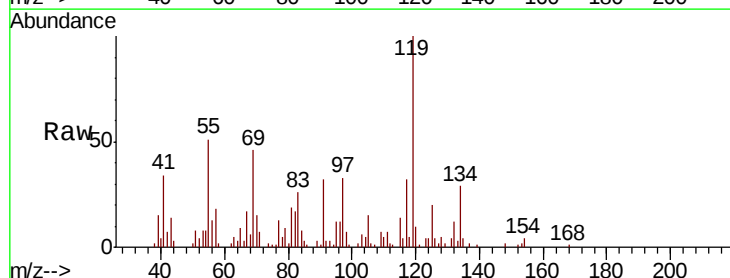
Tgt Ion: 117 Resp: 12227

Ion Ratio Lower Upper

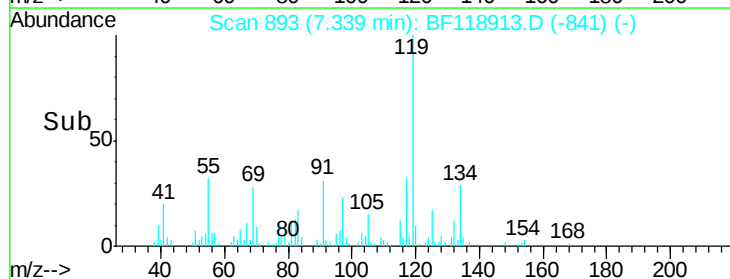
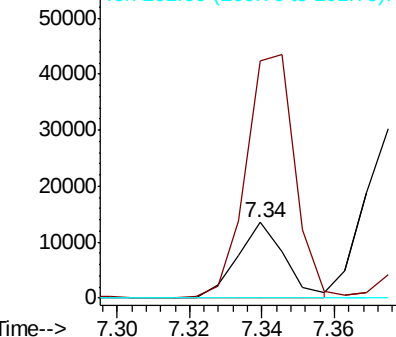
117 100

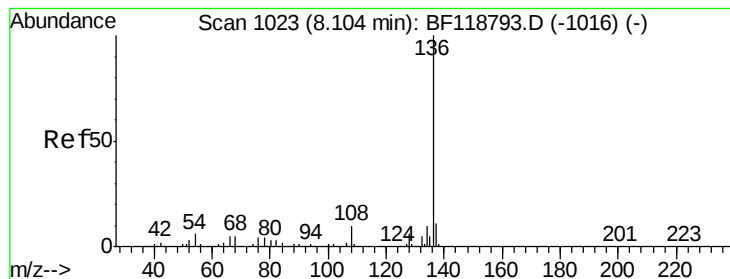
119 314.5 77.4 116.0#

201 0.0 85.1 127.7#



Abundance Ion 117.00 (116.70 to 117.70): E
60000
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 716227

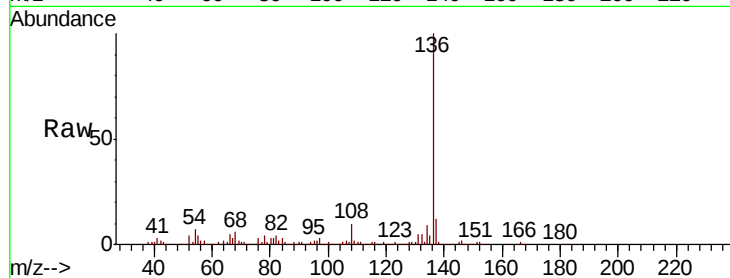
Ion Ratio Lower Upper

136 100

137 11.5 8.7 13.1

54 6.5 5.0 7.6

68 5.9 4.2 6.4

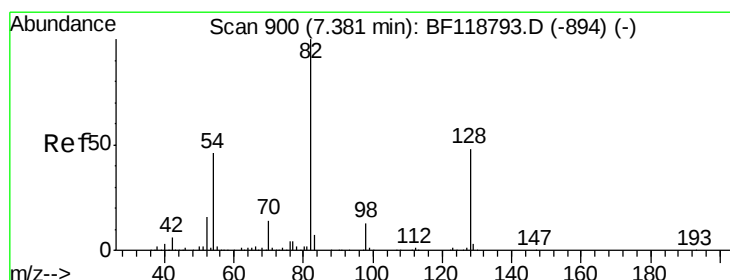
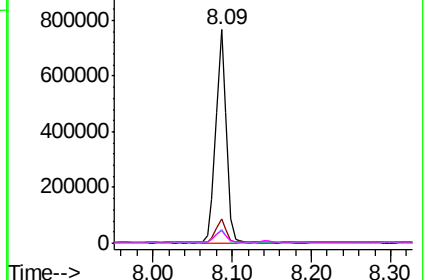
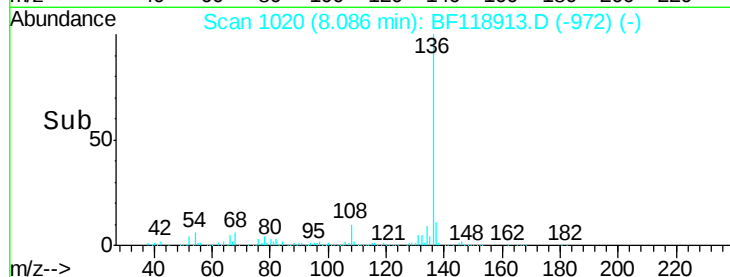


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.955 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

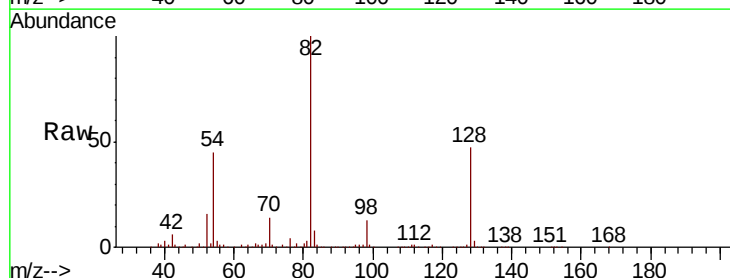
Tgt Ion: 82 Resp: 708422

Ion Ratio Lower Upper

82 100

128 47.5 38.5 57.7

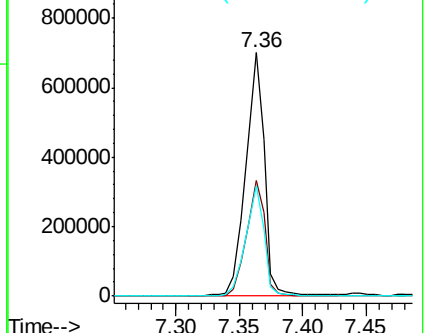
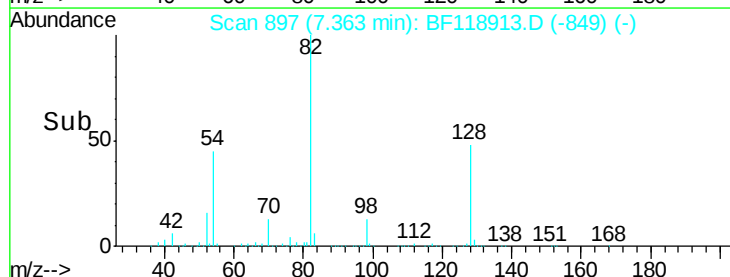
54 45.5 36.7 55.1

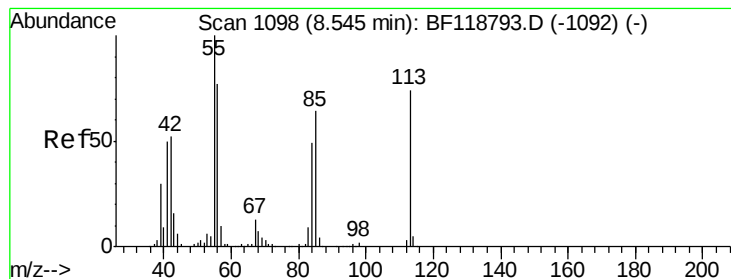


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#35

Caprolactam

Concen: 7.489 ng

RT: 8.52 min Scan# 1093

Delta R.T. -0.03 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

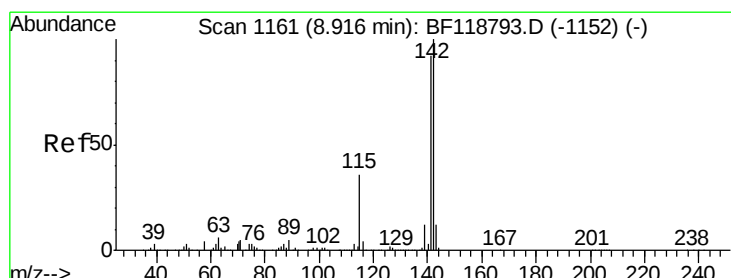
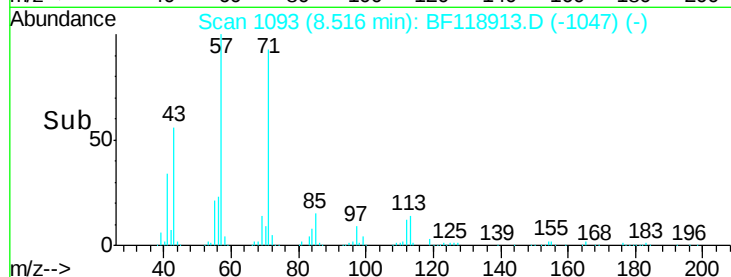
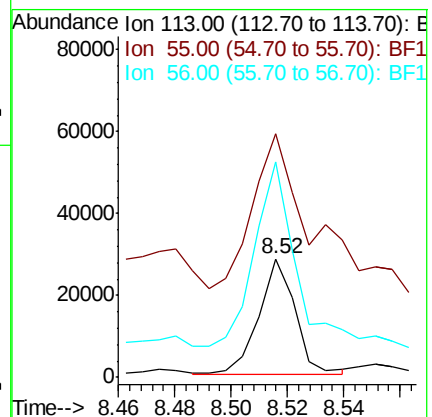
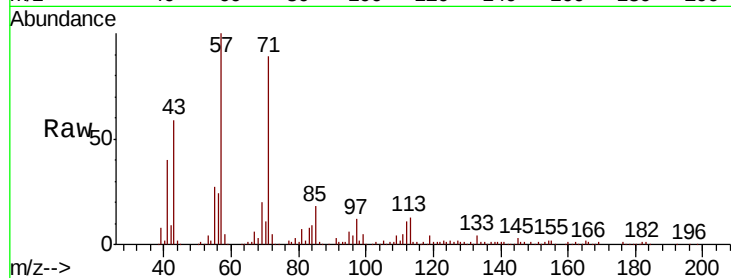
Tot Ion:113 Resp: 25264

Ion Ratio Lower Upper

113 100

55 205.6 115.5 155.5#

56 181.5 83.7 123.7#



#38

1-Methylnaphthalene

Concen: 2.939 ng

RT: 8.90 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

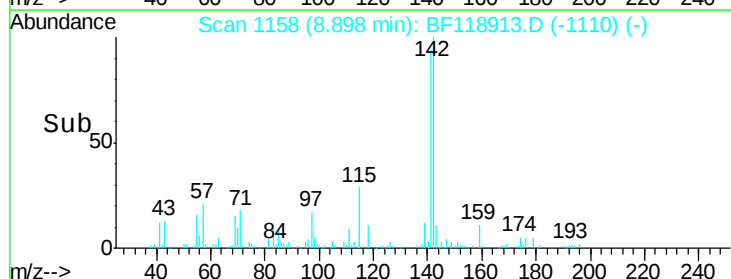
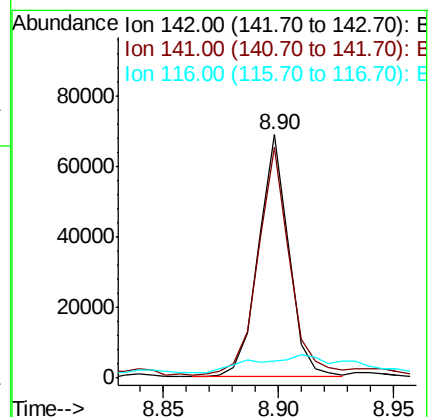
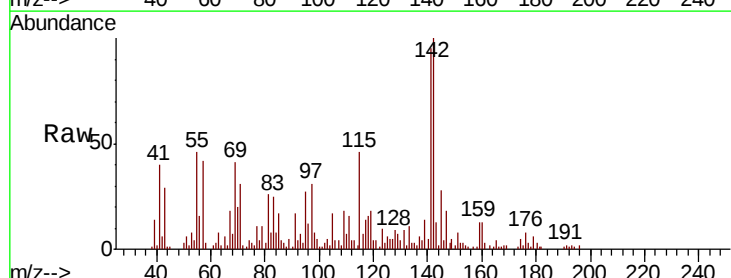
Tgt Ion:142 Resp: 62810

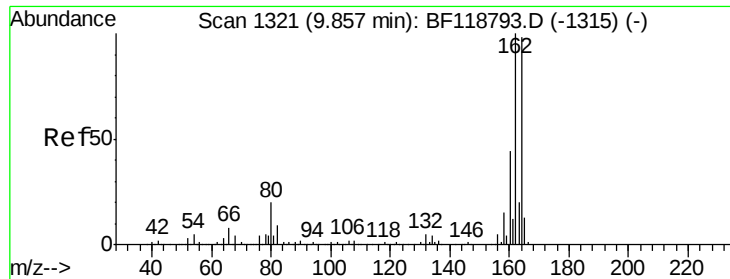
Ion Ratio Lower Upper

142 100

141 95.0 73.8 110.6

116 7.2 3.0 4.4#

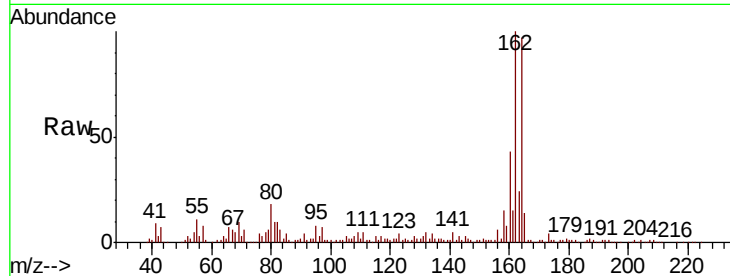




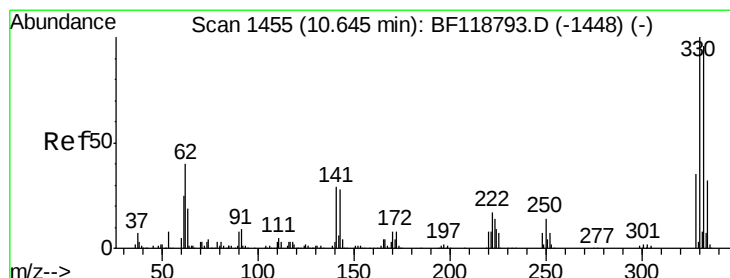
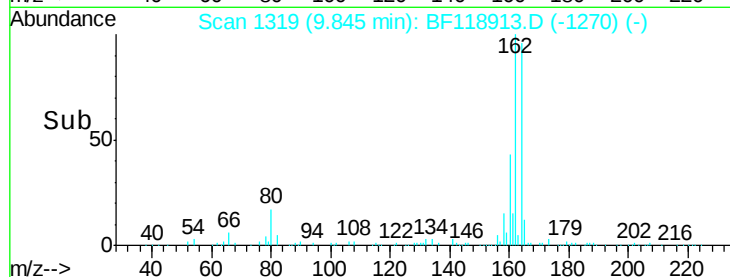
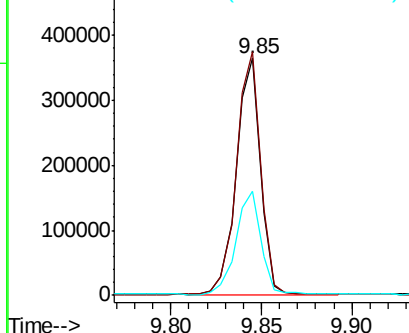
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.9	81.4	122.2
160	44.2	35.6	53.4

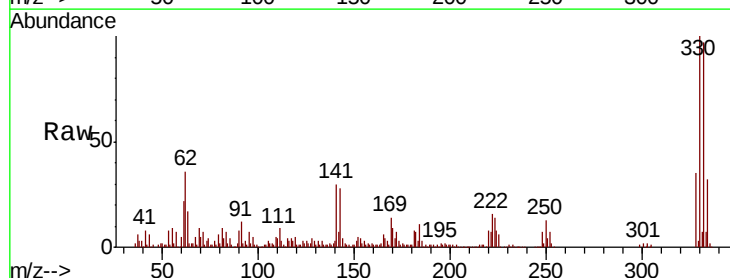


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

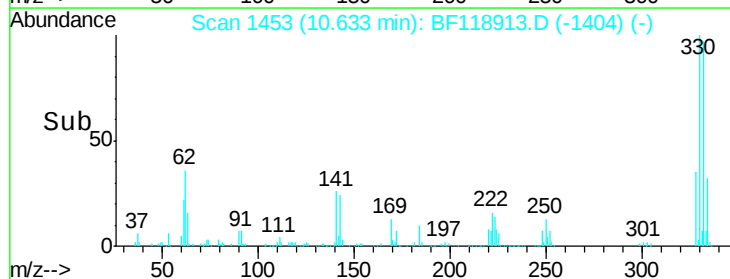
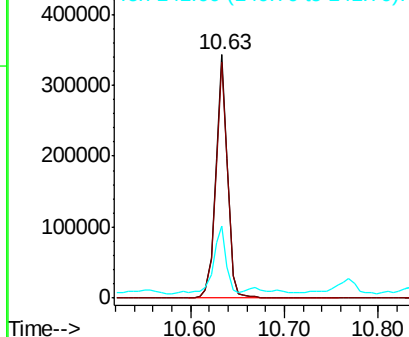


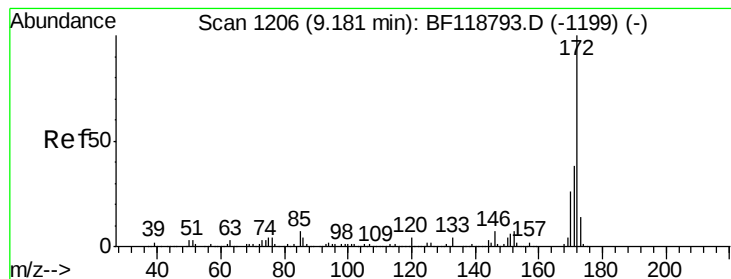
#42
2,4,6-Tribromophenol
Concen: 75.830 ng
RT: 10.63 min Scan# 1453
Delta R.T. -0.01 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.3	115.9
141	29.9	22.4	33.6



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: 65.096 ng

RT: 9.16 min Scan# 1203

Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

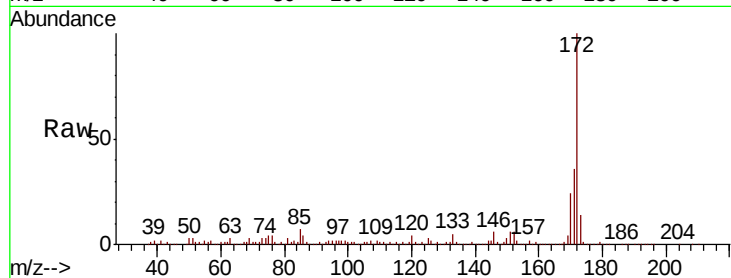
Instrument :

BNA_F

ClientSampleId :

Tot Ion:172 Resp: 1223011

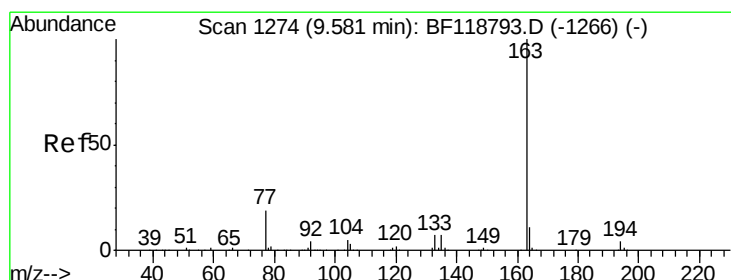
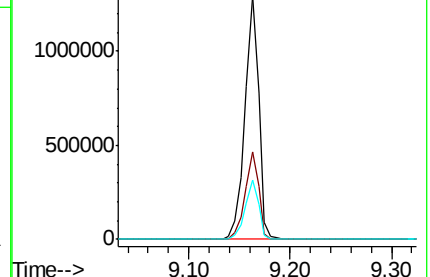
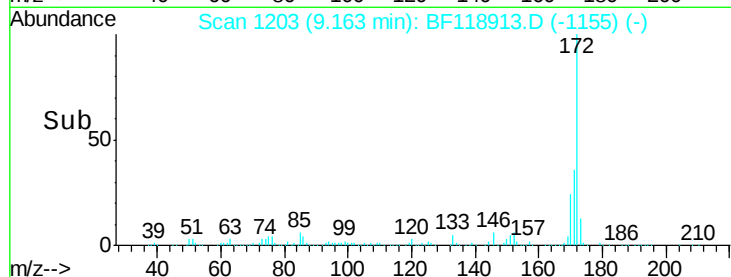
Ion	Ratio	Lower	Upper
172	100		
171	36.0	30.8	46.2
170	24.2	20.5	30.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50

Dimethylphthalate

Concen: 2.702 ng

RT: 9.56 min Scan# 1270

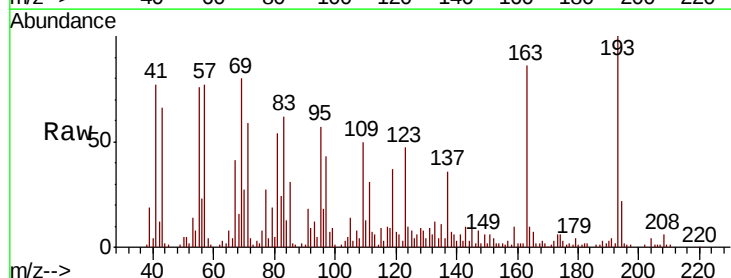
Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Tgt Ion:163 Resp: 61782

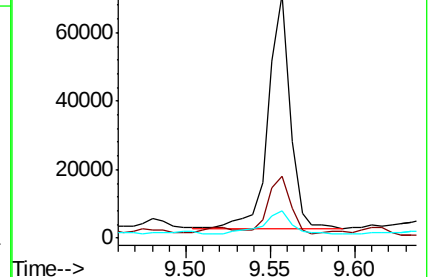
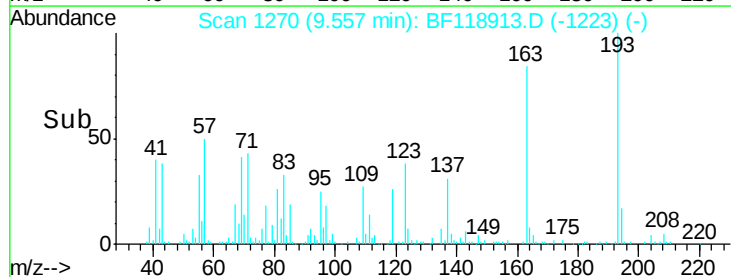
Ion	Ratio	Lower	Upper
163	100		
194	25.3	3.6	5.4#
164	11.1	8.7	13.1

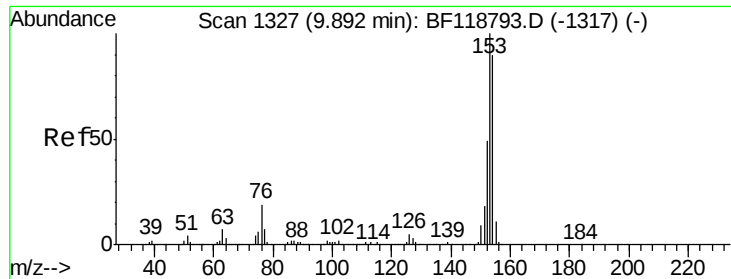


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 5.024 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

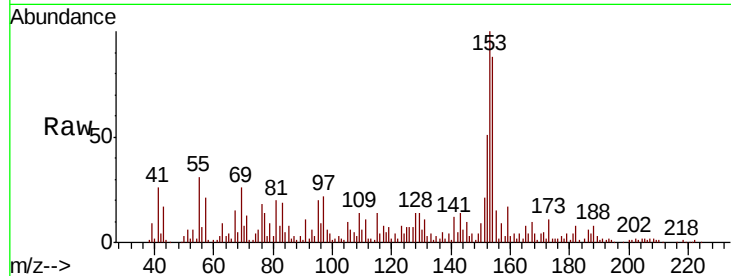
Tot Ion:154 Resp: 92330

Ion Ratio Lower Upper

154 100

153 114.1 89.4 134.0

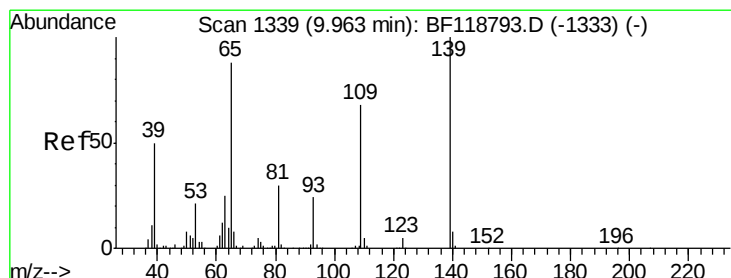
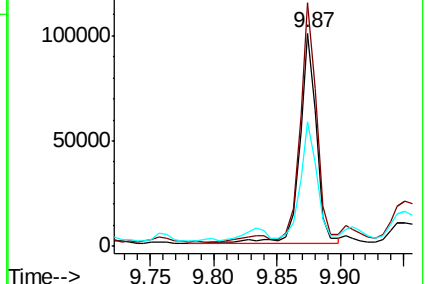
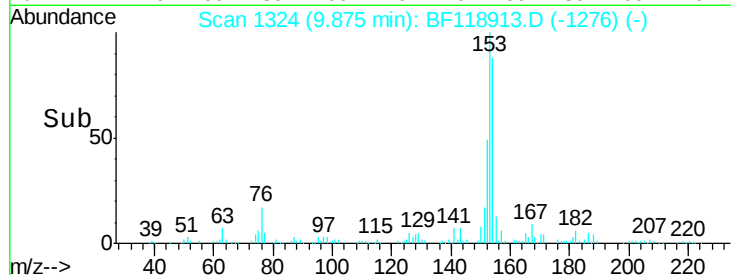
152 58.3 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

4-Nitrophenol

Concen: 2.586 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

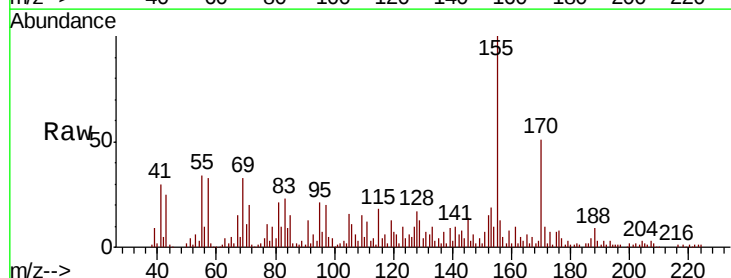
Tgt Ion:139 Resp: 10863

Ion Ratio Lower Upper

139 100

109 176.2 48.0 88.0#

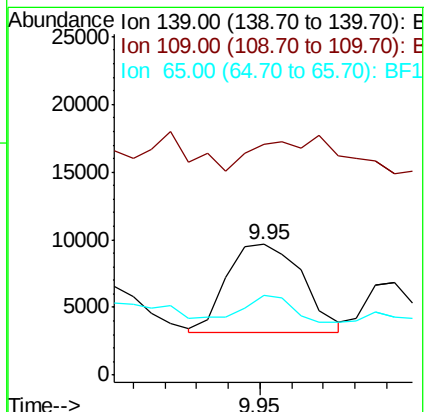
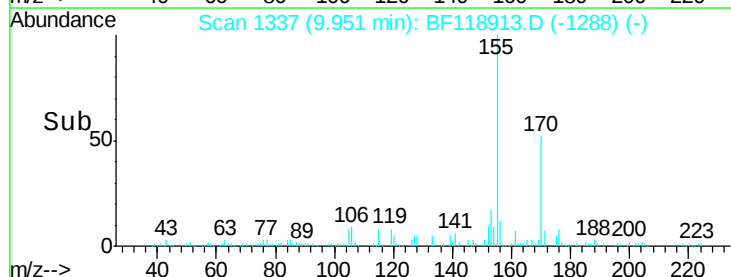
65 60.6 68.3 108.3#

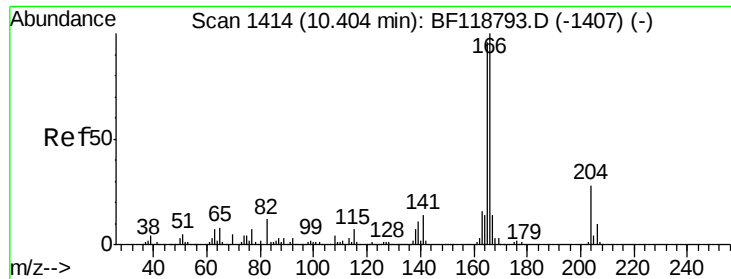


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

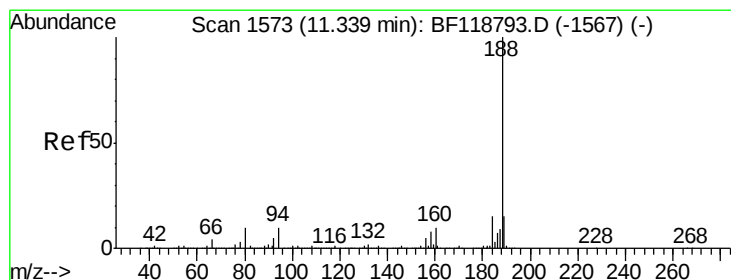
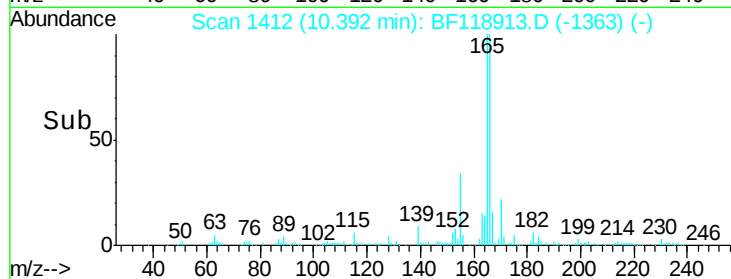
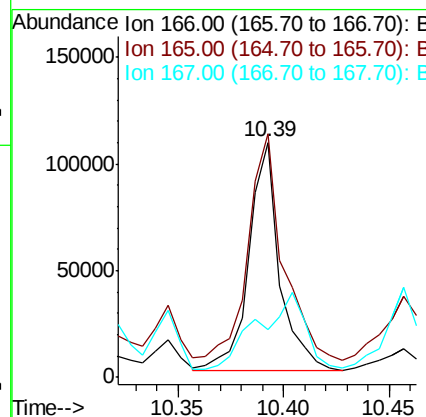
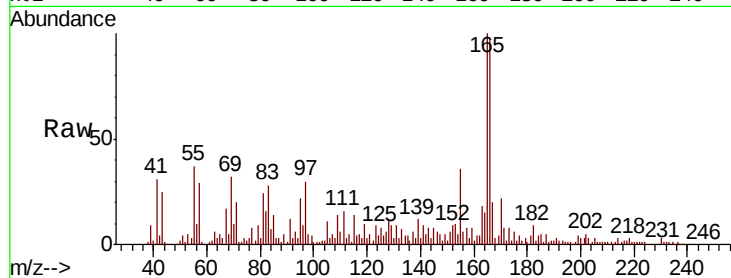




#58
 Fluorene
 Concen: 5.445 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

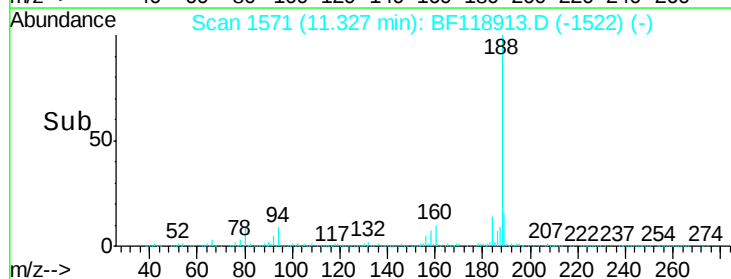
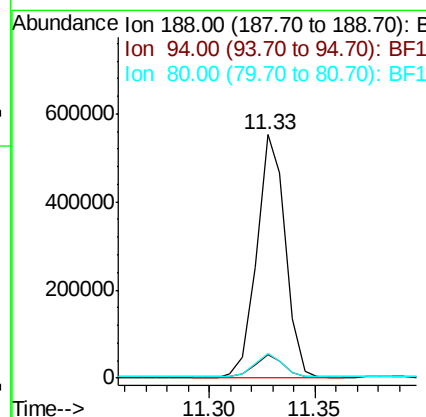
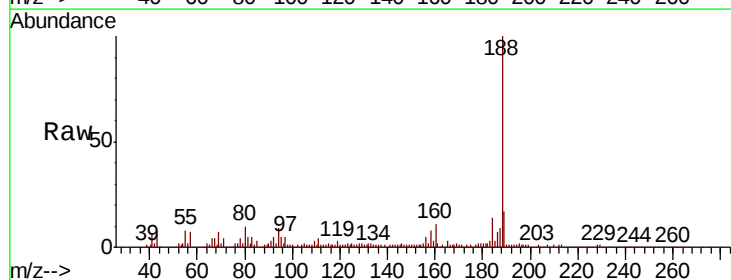
Instrument :
 BNA_F
 ClientSampleId :

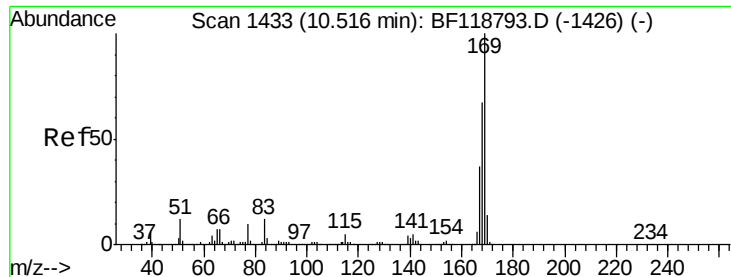
Tot Ion	Ratio	Lower	Upper
166	100		
165	103.5	77.0	115.6
167	20.4	11.1	16.7#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.9	11.9
80	10.1	8.4	12.6

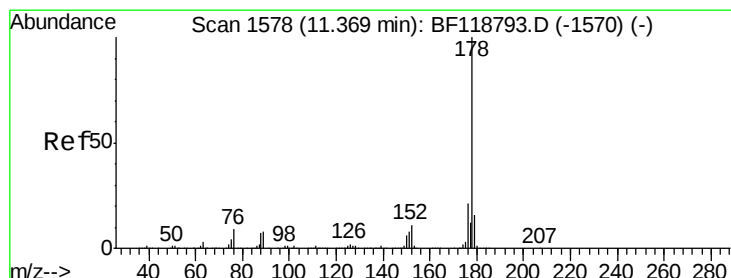
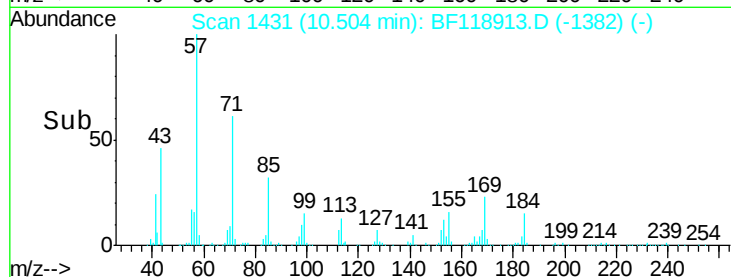
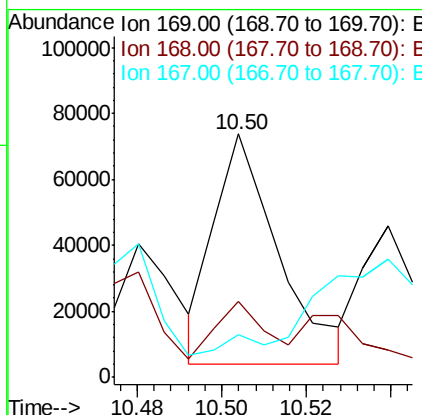
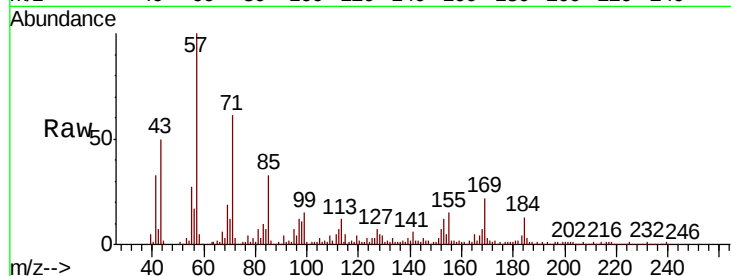




#66
 n-Nitrosodiphenylamine
 Concen: 4.900 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

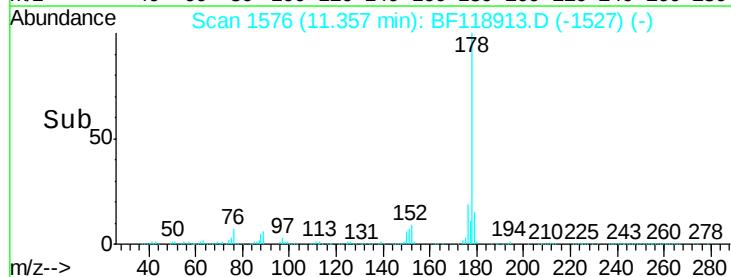
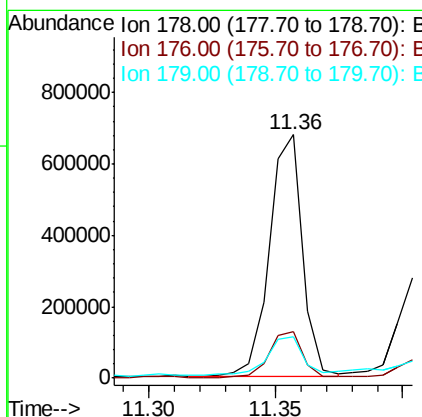
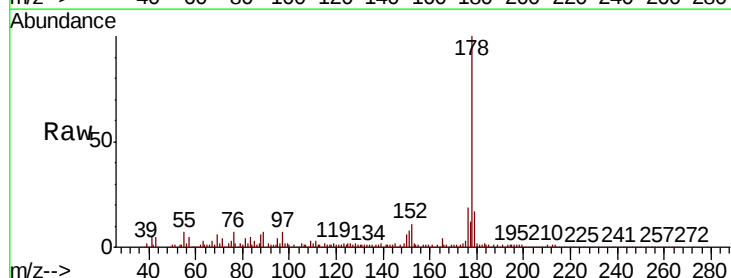
Instrument :
 BNA_F
 ClientSampled :

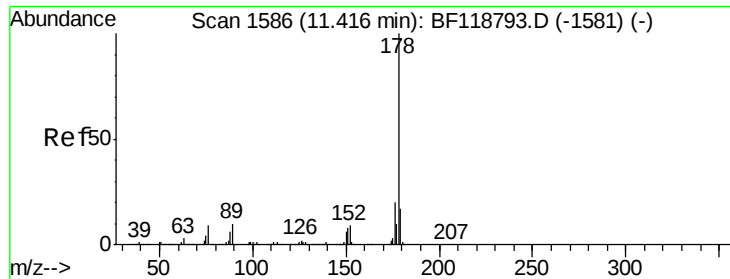
Tot Ion:169 Resp: 73978
 Ion Ratio Lower Upper
 169 100
 168 31.2 53.5 80.3#
 167 17.3 29.3 43.9#



#71
 Phenanthrene
 Concen: 24.058 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

Tgt Ion:178 Resp: 616896
 Ion Ratio Lower Upper
 178 100
 176 19.2 16.6 24.8
 179 16.7 13.2 19.8

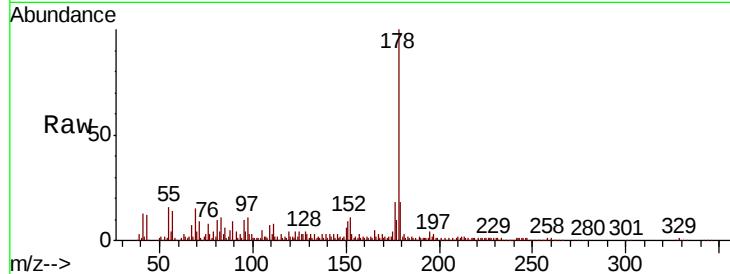




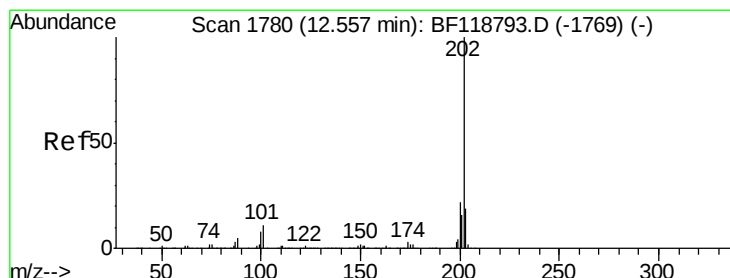
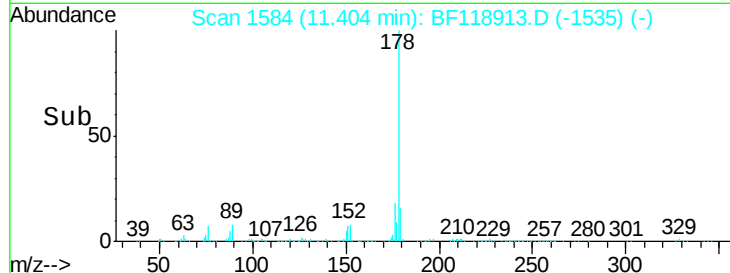
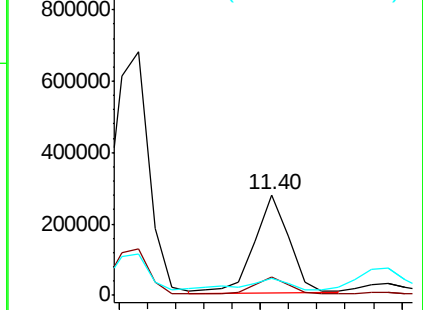
#72
 Anthracene
 Concen: 9.377 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	16.2	24.2
179	17.6	13.4	20.2

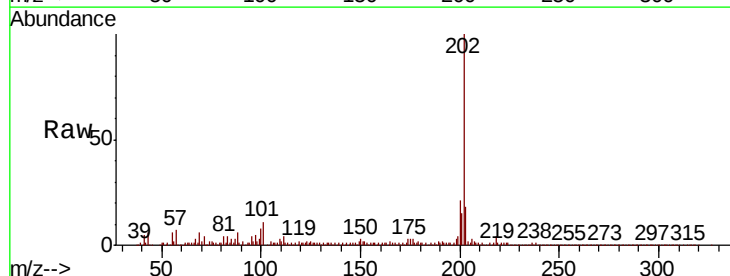


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

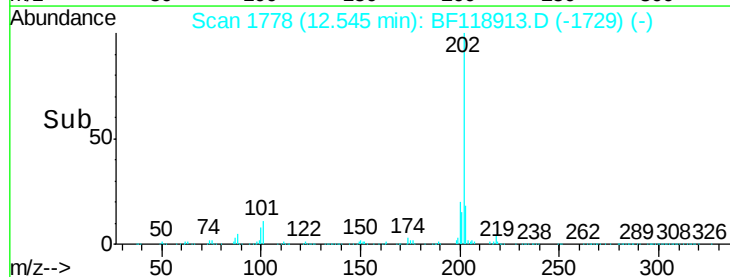
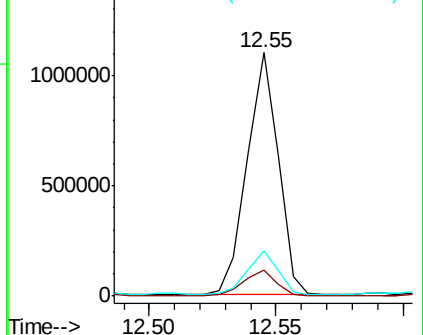


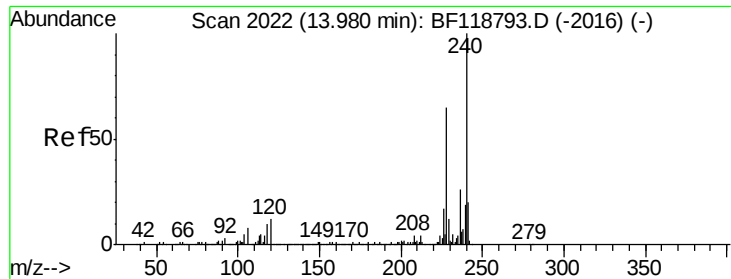
#75
 Fluoranthene
 Concen: 33.620 ng
 RT: 12.55 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.0
203	18.3	0.0	38.7



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

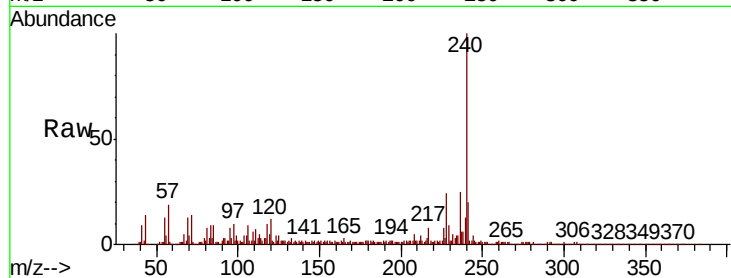
Tot Ion:240 Resp: 556929

Ion Ratio Lower Upper

240 100

120 12.2 9.4 14.0

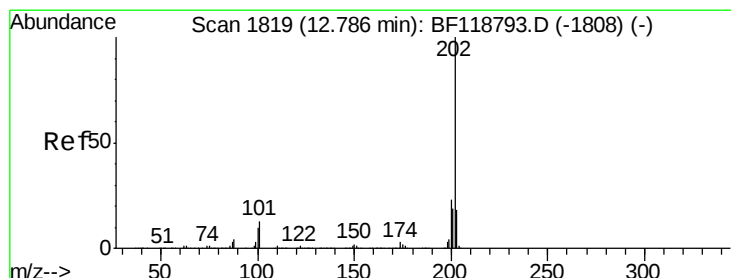
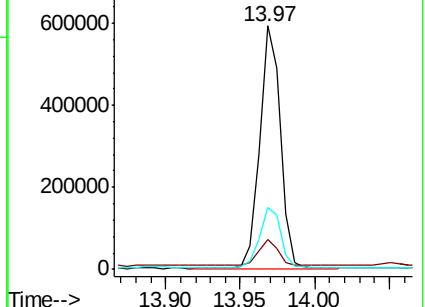
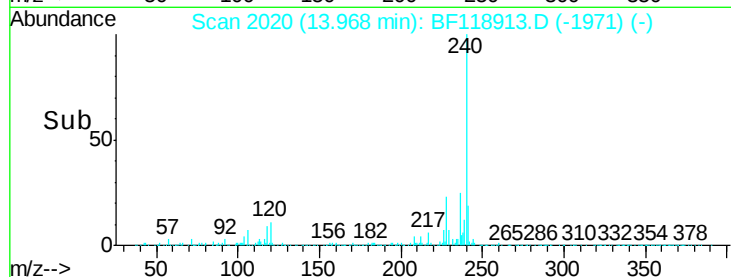
236 25.2 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 22.255 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

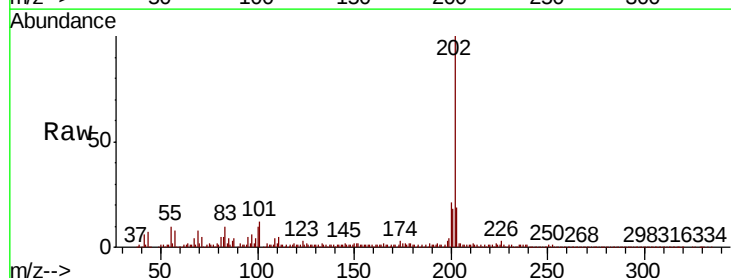
Tgt Ion:202 Resp: 850274

Ion Ratio Lower Upper

202 100

200 21.2 18.2 27.2

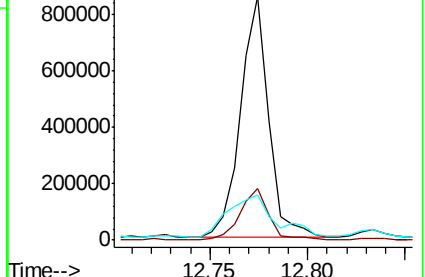
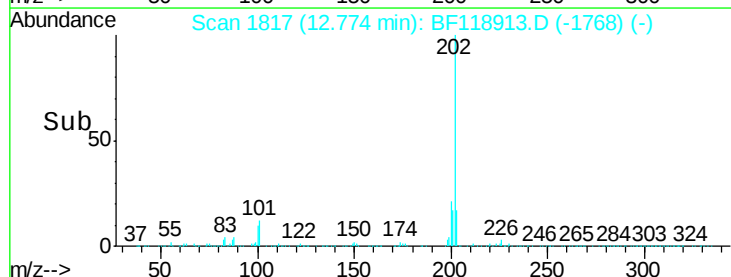
203 18.7 14.8 22.2

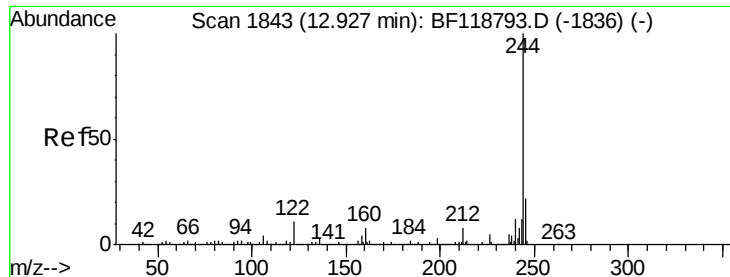


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 50.456 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

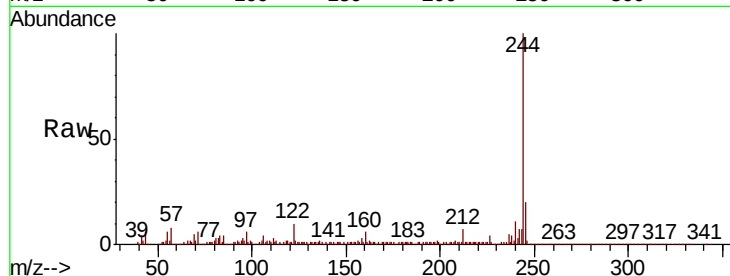
Tot Ion:244 Resp: 1368055

Ion Ratio Lower Upper

244 100

212 6.9 6.5 9.7

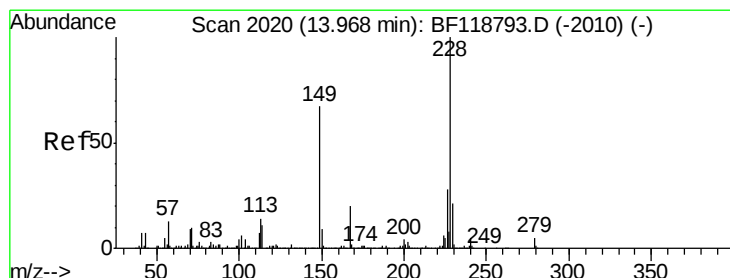
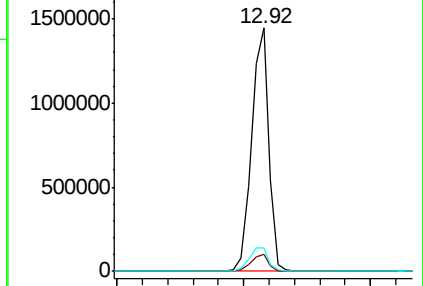
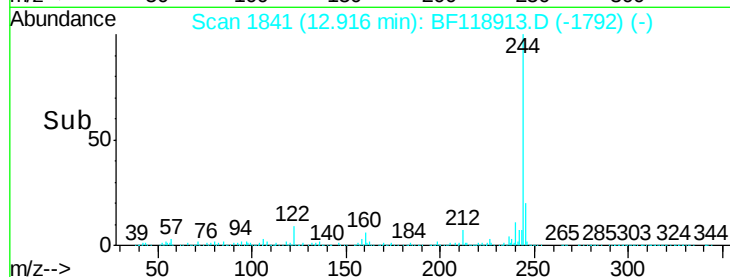
122 9.5 8.9 13.3



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



#81

Benzo(a)anthracene

Concen: 11.037 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

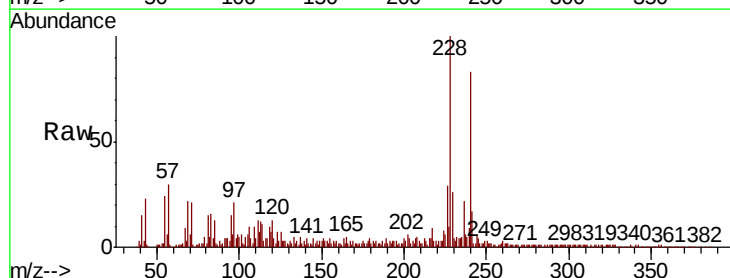
Tgt Ion:228 Resp: 365767

Ion Ratio Lower Upper

228 100

226 29.1 22.7 34.1

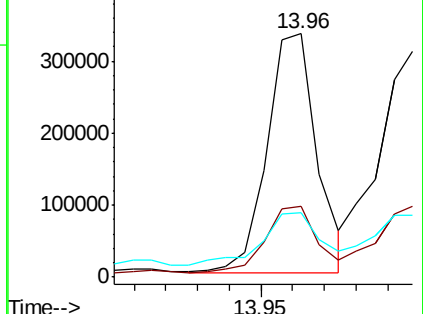
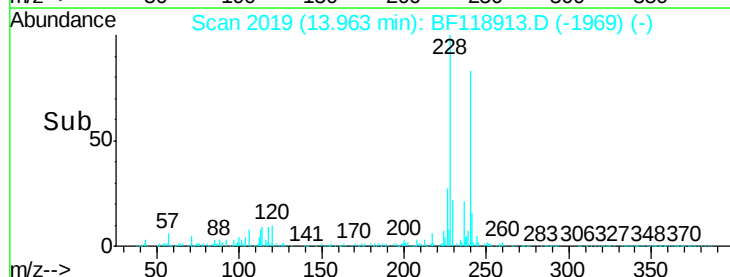
229 26.4 16.6 25.0#

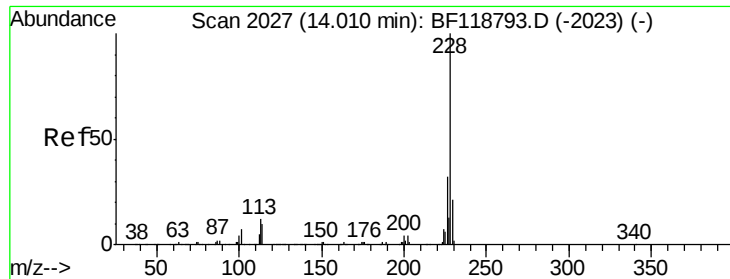


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 10.208 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

Instrument :

BNA_F

ClientSampleId :

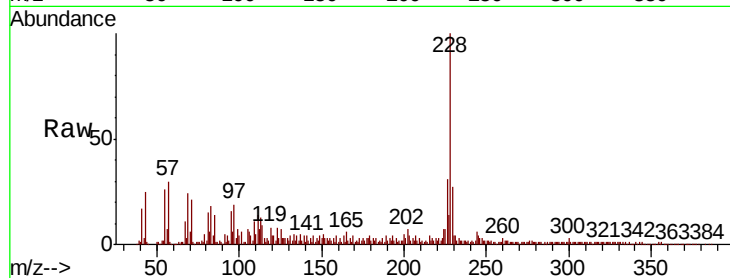
Tot Ion:228 Resp: 339551

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.0

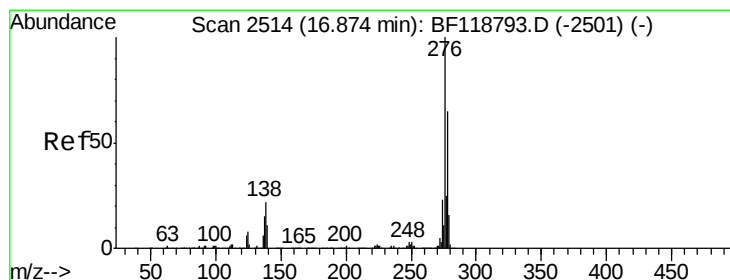
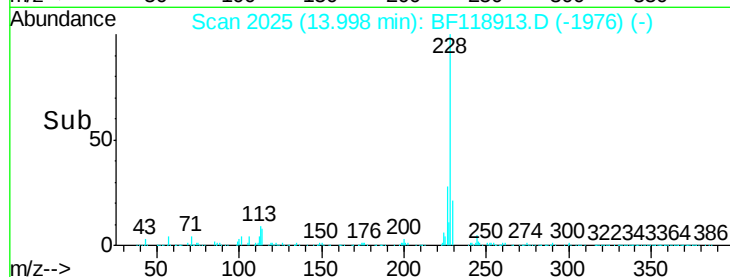
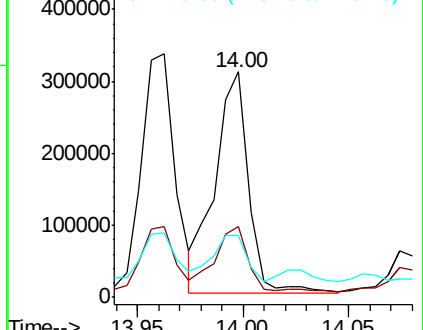
229 27.3 16.9 25.3#



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.382 ng

RT: 16.86 min Scan# 2512

Delta R.T. -0.01 min

Lab File: BF118913.D

Acq: 12 Feb 2020 13:42

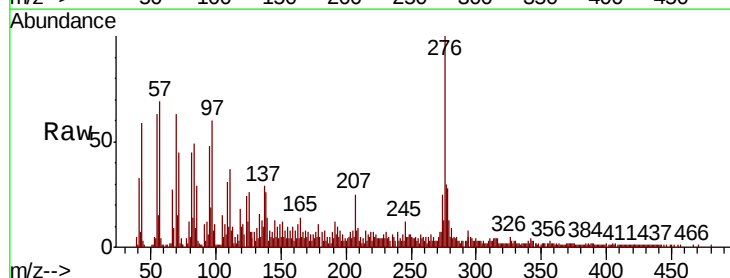
Tgt Ion:276 Resp: 113032

Ion Ratio Lower Upper

276 100

138 20.7 18.3 27.5

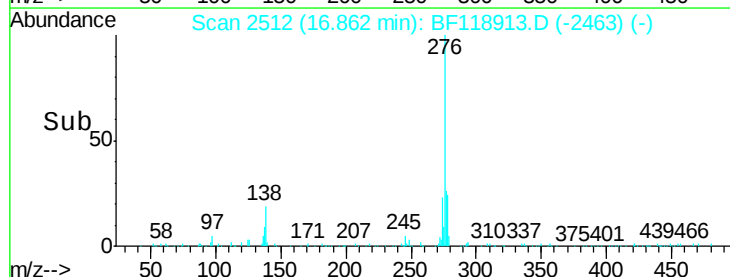
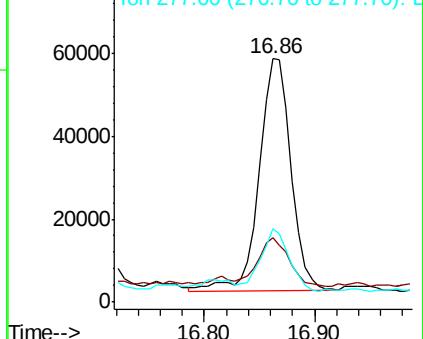
277 24.4 20.2 30.4

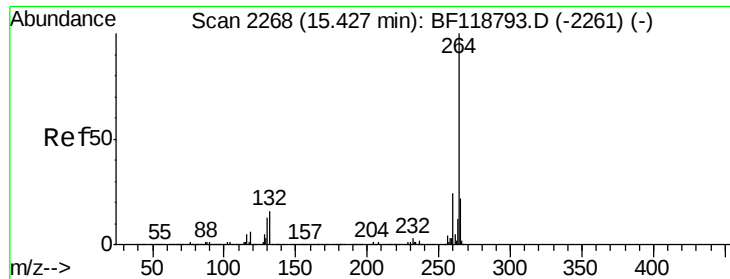


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

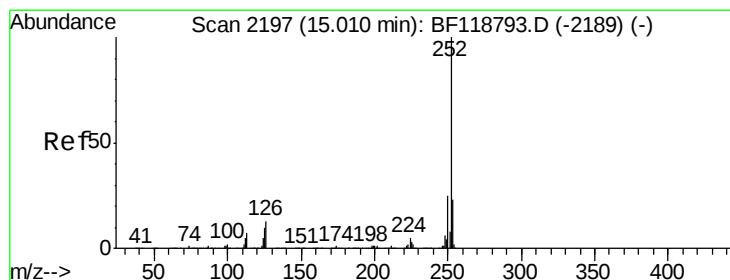
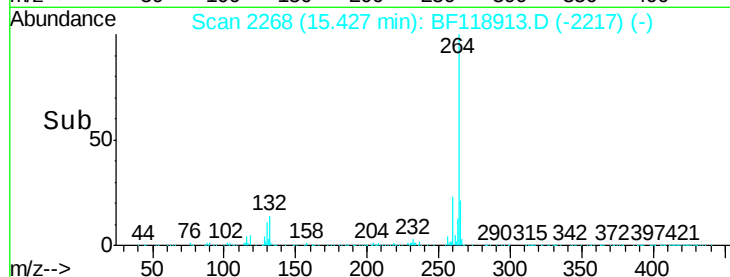
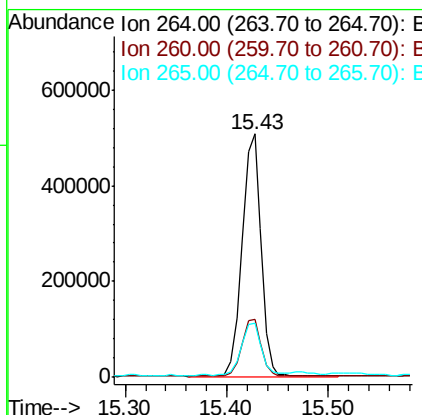
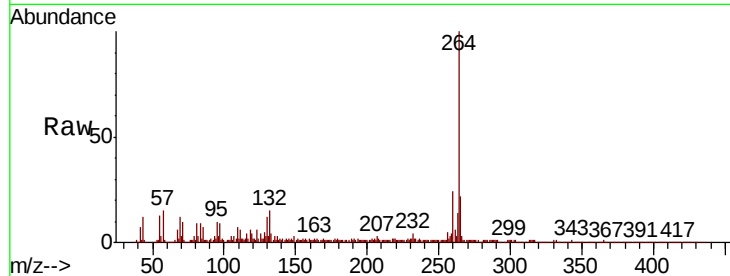




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.00 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

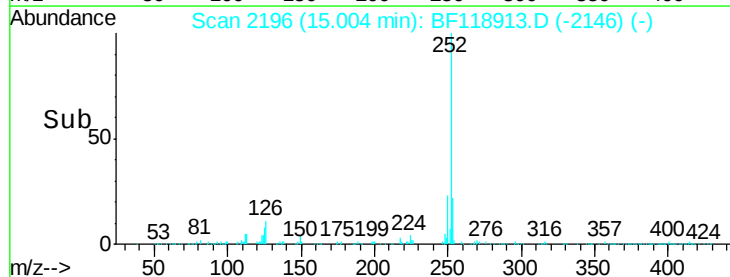
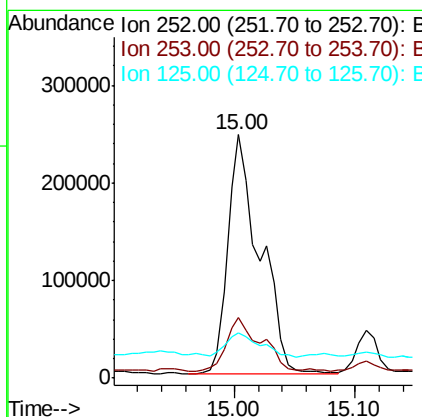
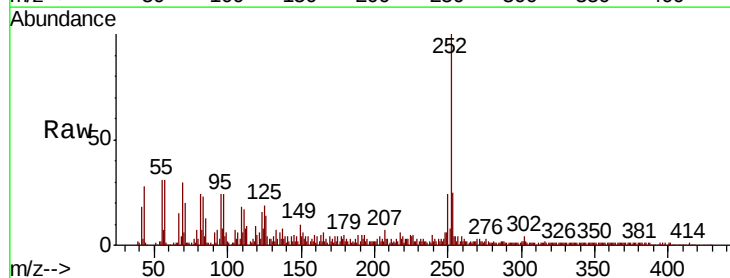
Instrument :
BNA_F
ClientSampleId :

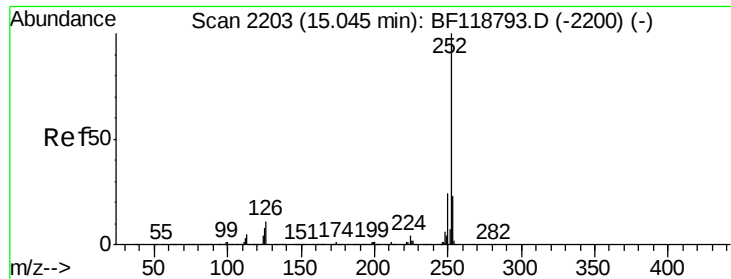
Tot Ion:264 Resp: 657653
Ion Ratio Lower Upper
264 100
260 24.0 19.1 28.7
265 22.3 17.2 25.8



#88
Benzo(b)fluoranthene
Concen: 11.003 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Tgt Ion:252 Resp: 448997
Ion Ratio Lower Upper
252 100
253 24.7 18.4 27.6
125 18.8 8.1 12.1#

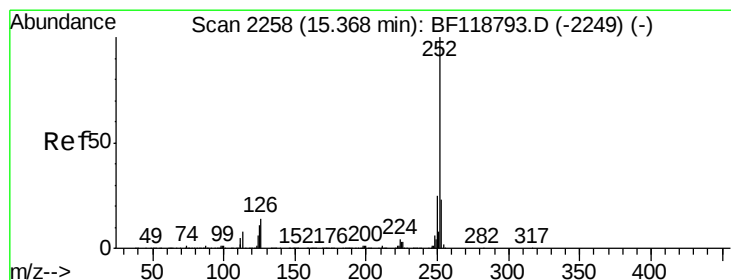
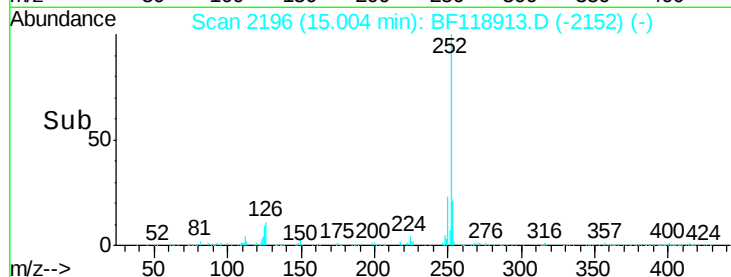
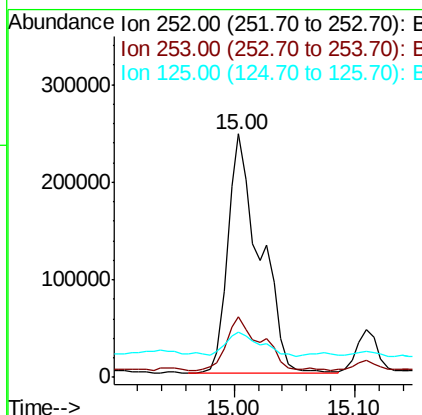
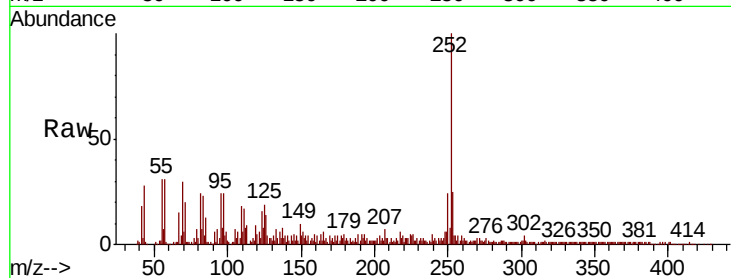




#89
Benzo(k)fluoranthene
Concen: 12.635 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.04 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

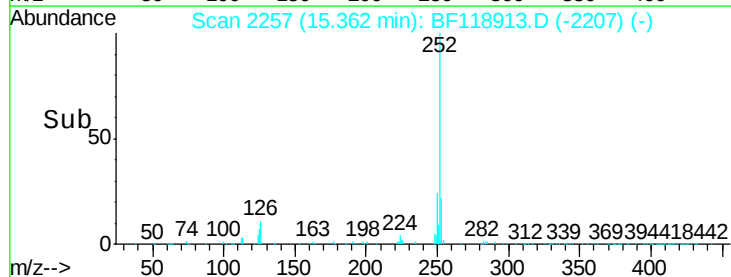
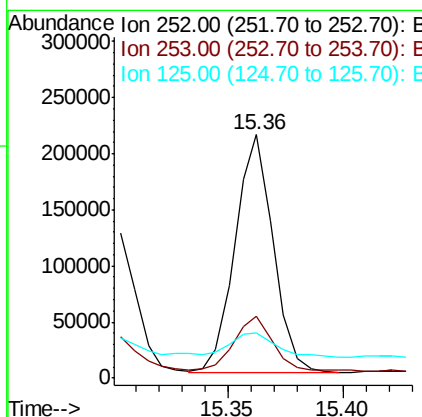
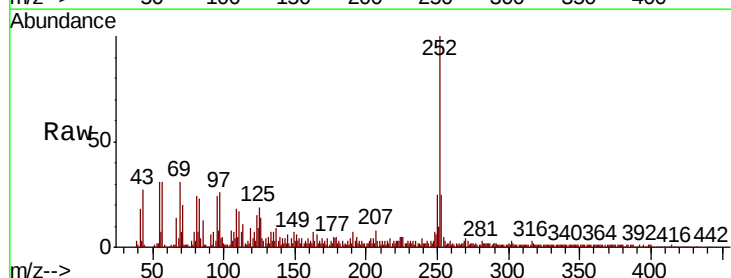
Instrument :
BNA_F
ClientSampleId :

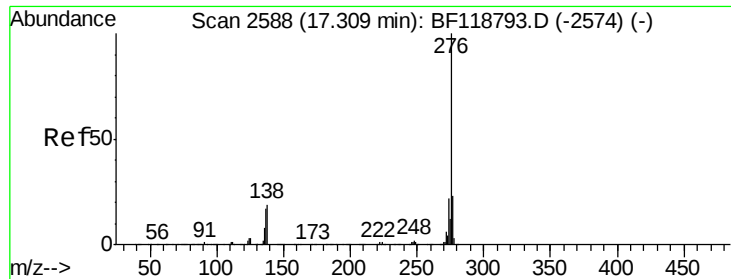
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.2	27.4
125	18.8	7.0	10.6



#90
Benzo(a)pyrene
Concen: 7.011 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF118913.D
Acq: 12 Feb 2020 13:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.1	27.1
125	18.5	8.7	13.1





#92
 Benzo(a,h,i)perylene
 Concen: 3.288 ng
 RT: 17.30 min Scan# 2586
 Delta R.T. -0.01 min
 Lab File: BF118913.D
 Acq: 12 Feb 2020 13:42

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 98034
 Ion Ratio Lower Upper
 276 100
 277 29.2 18.7 28.1#
 138 27.8 15.4 23.2#

