

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
 Data File : BF114820.D
 Acq On : 5 Jun 2019 14:51
 Operator : HP/JU
 Sample : K3173-03 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 06 04:58:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 04 16:57:15 2019
 Response via : Initial Calibration

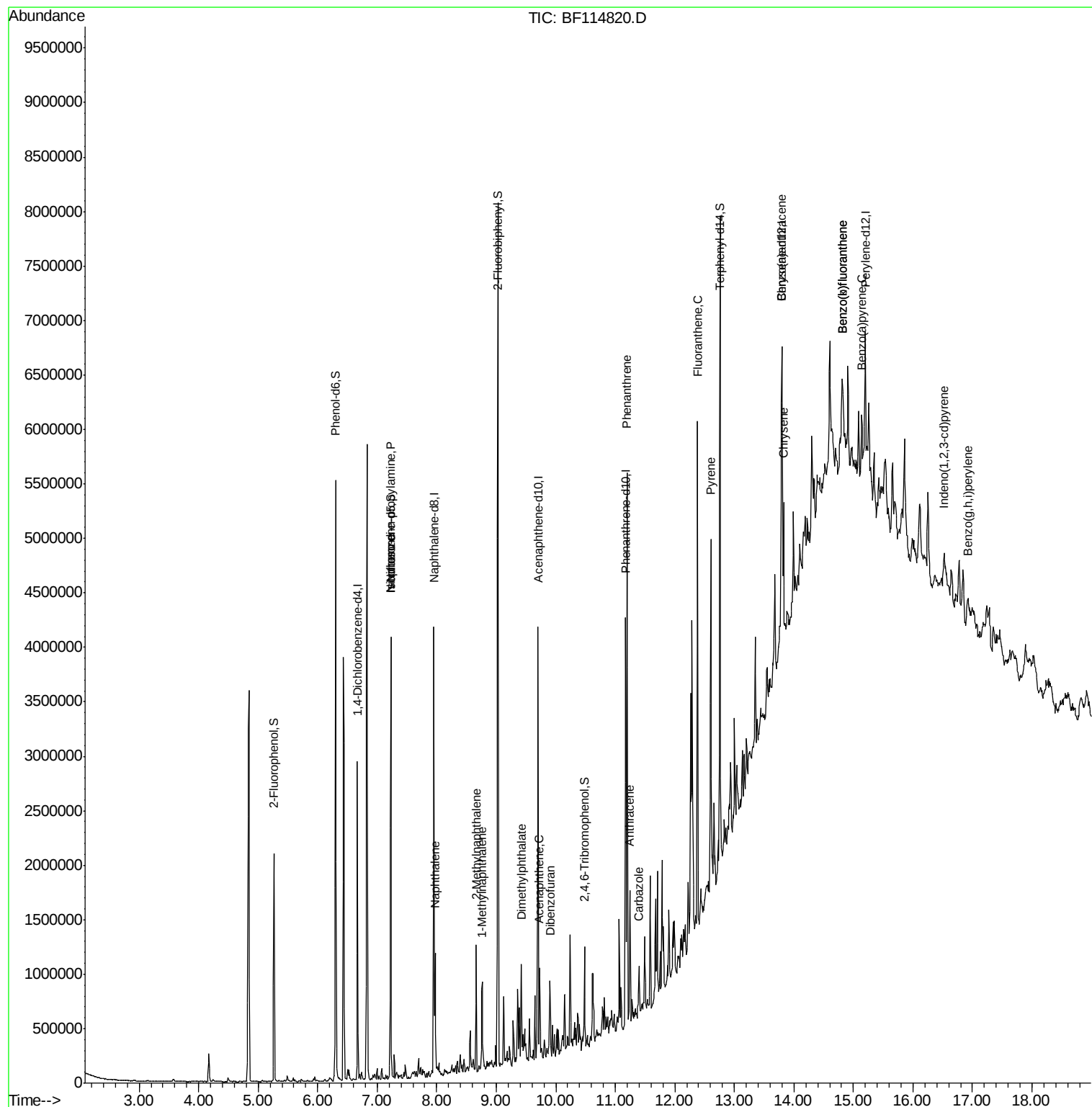
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	428012	20.00	ng	0.00
21) Naphthalene-d8	7.95	136	1589188	20.00	ng	0.00
39) Acenaphthene-d10	9.70	164	738359	20.00	ng	0.00
64) Phenanthrene-d10	11.17	188	1336936	20.00	ng	0.00
76) Chrysene-d12	13.80	240	725321	20.00	ng	0.00
87) Perylene-d12	15.20	264	602791	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	639695	26.12	ng	0.00
7) Phenol-d6	6.30	99	1818310	61.01	ng	0.00
23) Nitrobenzene-d5	7.23	82	1185960	45.94	ng	0.00
42) 2,4,6-Tribromophenol	10.48	330	84894	10.67	ng	0.00
45) 2-Fluorobiphenyl	9.03	172	2270352	57.60	ng	0.00
79) Terphenyl-d14	12.76	244	2144901	57.51	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.23	70	159117	8.065	ng	# 79
25) Isophorone	7.23	82	1170074	22.926	ng	# 61
31) Naphthalene	7.97	128	449624	6.284	ng	94
37) 2-Methylnaphthalene	8.66	142	259597	5.231	ng	98
38) 1-Methylnaphthalene	8.76	142	207640	4.412	ng	99
50) Dimethylphthalate	9.42	163	344949	6.397	ng	98
52) Acenaphthene	9.73	154	169973	3.848	ng	98
55) Dibenzofuran	9.90	168	178267	2.902	ng	# 92
58) Fluorene	10.25	166	284552	Below Cal		99
71) Phenanthrene	11.20	178	1796209	28.143	ng	98
72) Anthracene	11.24	178	433977	6.461	ng	95
73) Carbazole	11.40	167	192876	3.350	ng	95
75) Fluoranthene	12.38	202	1652042	24.869	ng	98
78) Pyrene	12.61	202	1511343	24.019	ng	96
81) Benzo(a)anthracene	13.79	228	516707	9.245	ng	97
83) Chrysene	13.83	228	552385	10.159	ng	96
86) Indeno(1,2,3-cd)pyrene	16.52	276	177314	2.858	ng	95
88) Benzo(b)fluoranthene	14.81	252	589655	15.366	ng	# 79
89) Benzo(k)fluoranthene	14.81	252	589655	18.094	ng	# 80
90) Benzo(a)pyrene	15.14	252	308865	9.299	ng	# 81
92) Benzo(g,h,i)perylene	16.92	276	169367	5.354	ng	# 84

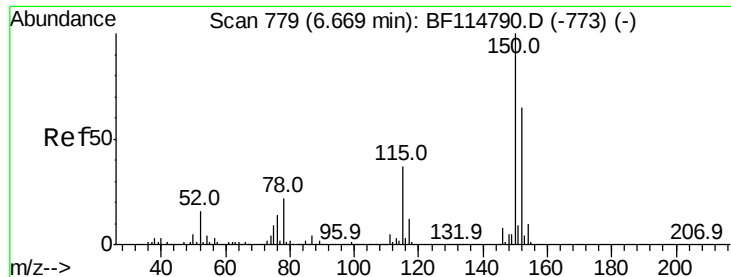
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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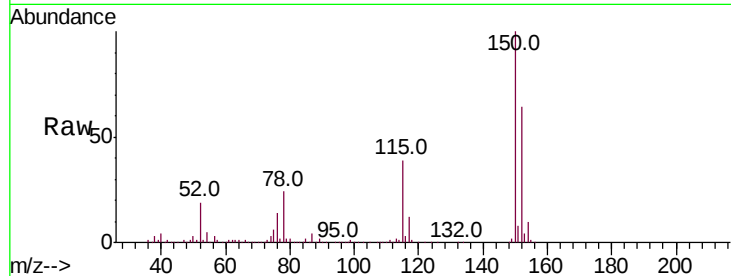


#1

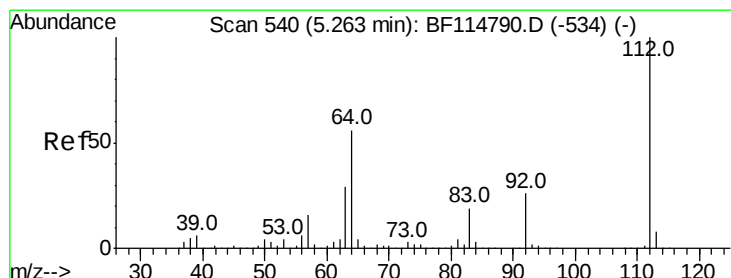
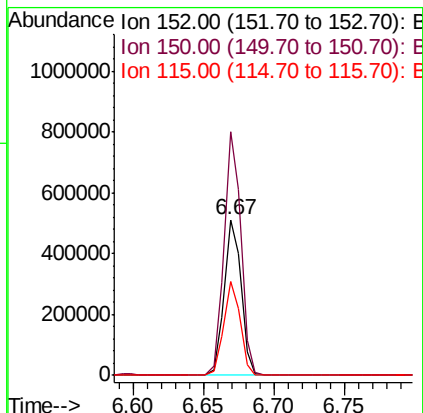
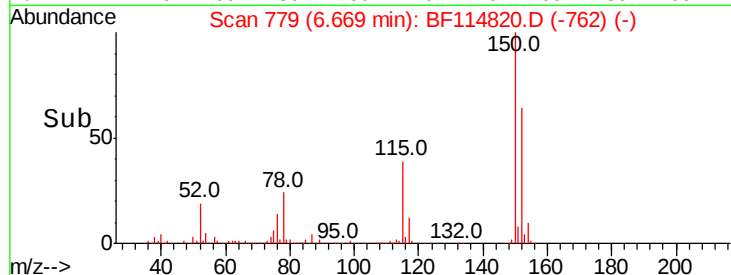
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 779
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 428012
Ion Ratio Lower Upper
152 100
150 156.3 124.0 186.0
115 60.6 46.3 69.5



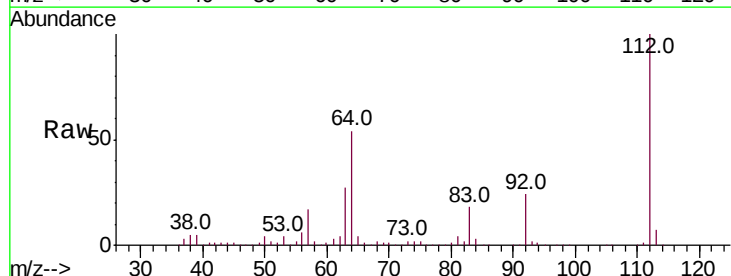
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



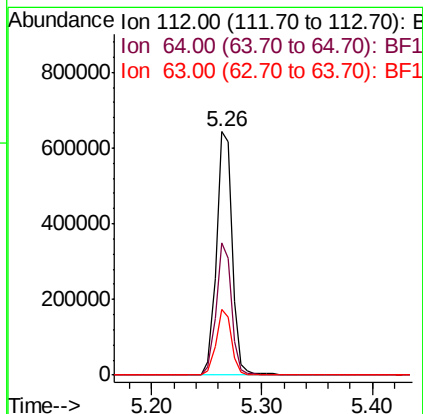
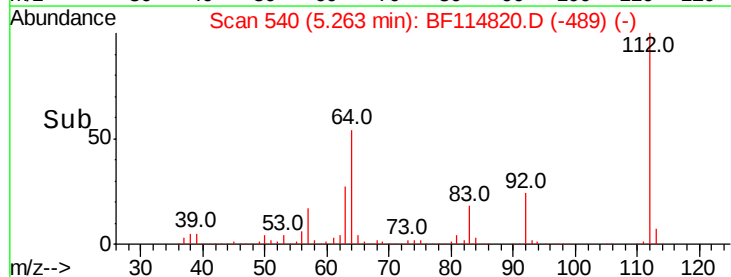
#5

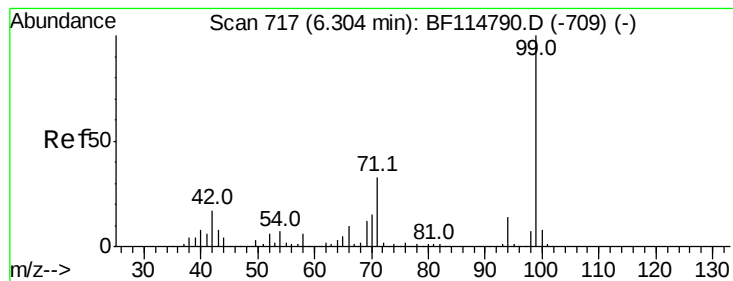
2-Fluorophenol
Concen: 26.115 ng
RT: 5.26 min Scan# 540
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion:112 Resp: 639695
Ion Ratio Lower Upper
112 100
64 54.4 44.6 66.8
63 27.2 23.0 34.4



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: 61.006 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.00 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampled :

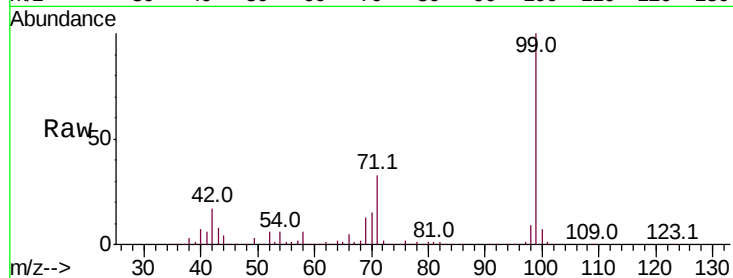
Tot Ion: 99 Resp: 1818310

Ion Ratio Lower Upper

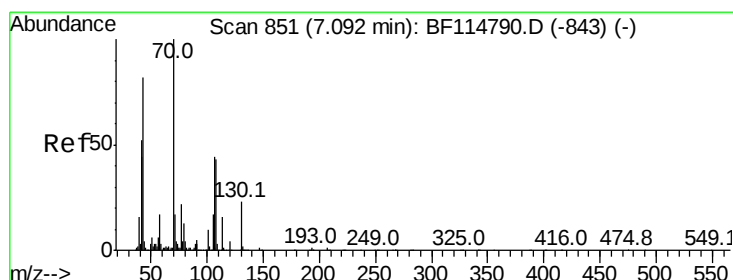
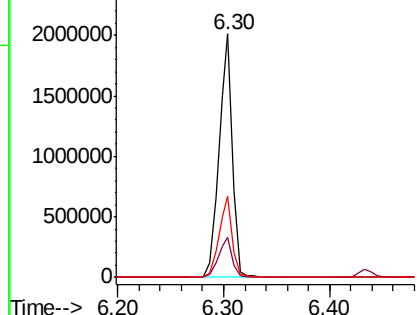
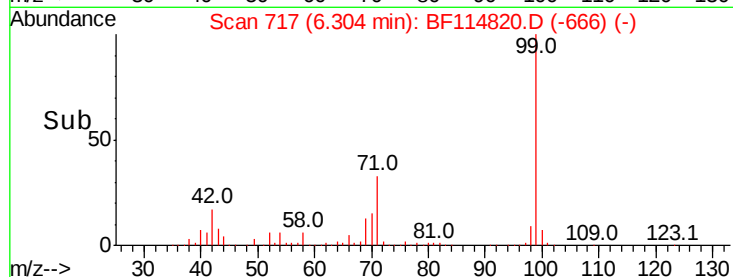
99 100

42 16.7 13.3 19.9

71 33.1 26.3 39.5



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: 8.065 ng

RT: 7.23 min Scan# 874

Delta R.T. 0.14 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Tgt Ion: 70 Resp: 159117

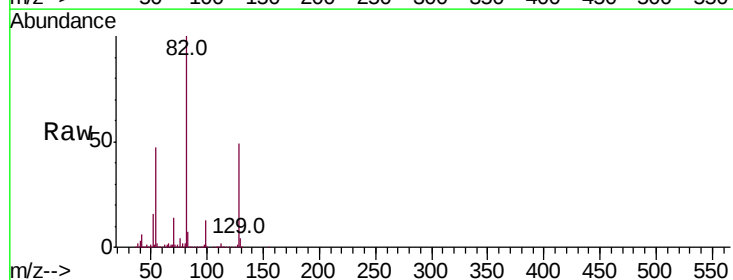
Ion Ratio Lower Upper

70 100

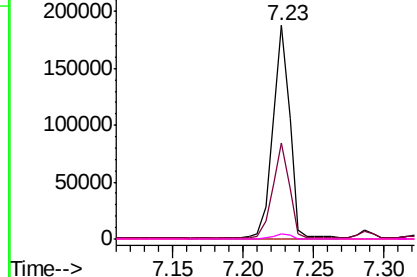
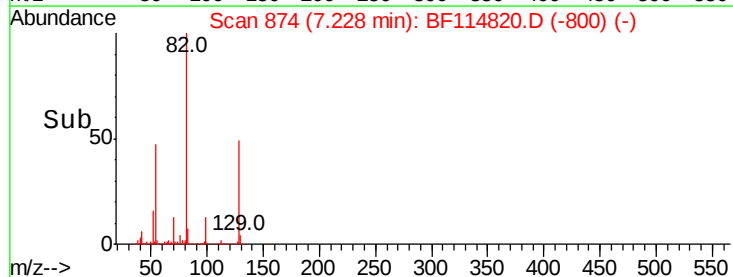
42 44.7 41.8 62.8

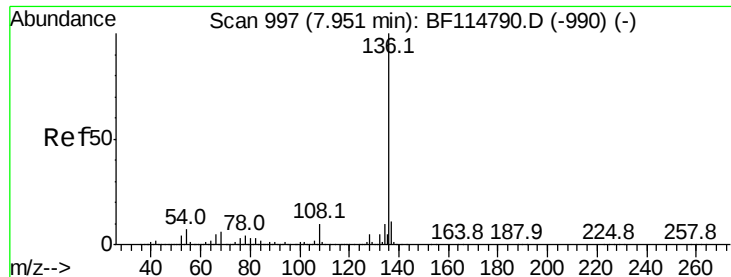
101 0.0 8.2 12.4#

130 2.4 18.5 27.7#



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



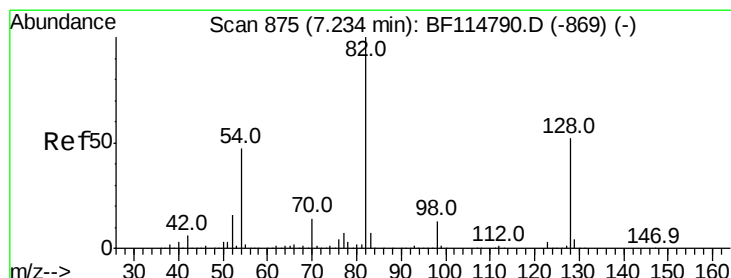
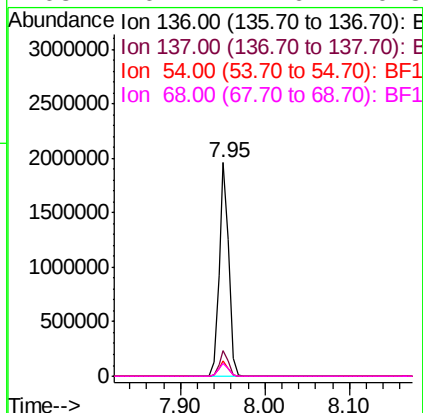
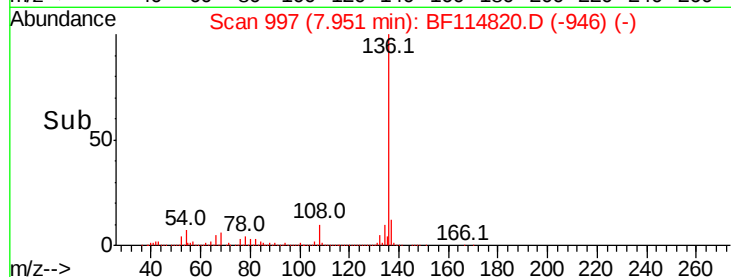
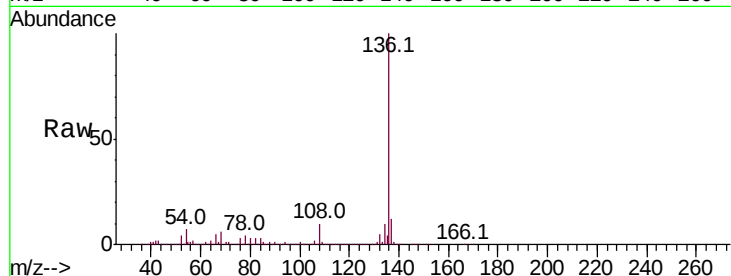


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.95 min Scan# 997
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136 Resp: 1589188

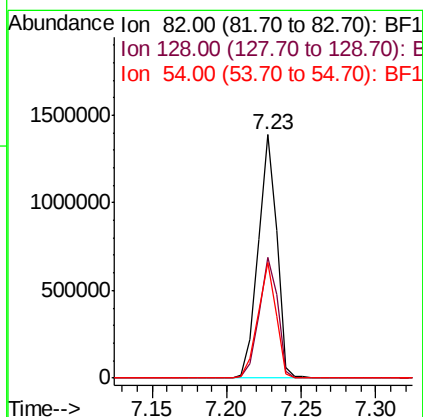
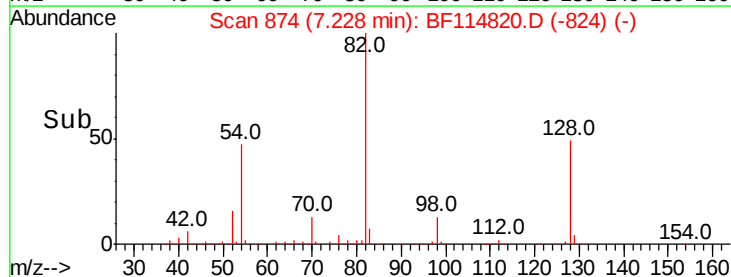
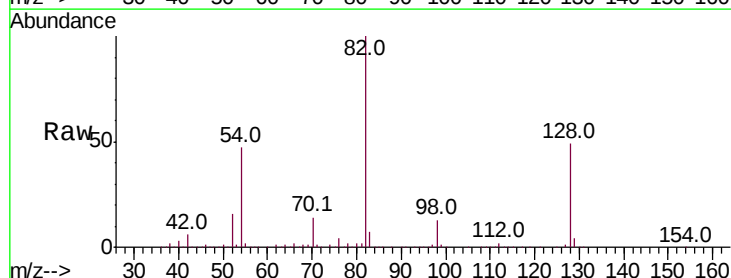
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.1	13.7
54	7.2	5.4	8.0
68	6.2	4.6	6.8

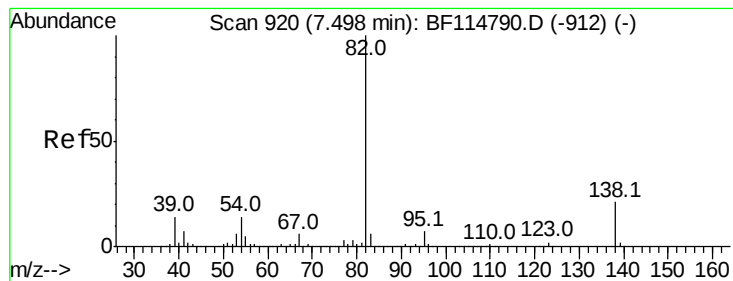


#23
Nitrobenzene-d5
Concen: 45.939 ng
RT: 7.23 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion: 82 Resp: 1185960

Ion	Ratio	Lower	Upper
82	100		
128	49.4	41.8	62.6
54	47.3	37.9	56.9





#25

Isophorone

Concen: 22.926 ng

RT: 7.23 min Scan# 874

Delta R.T. -0.27 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

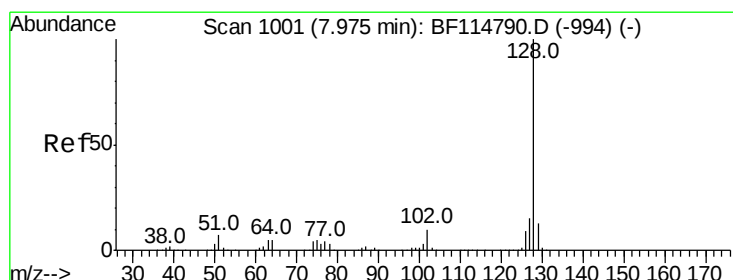
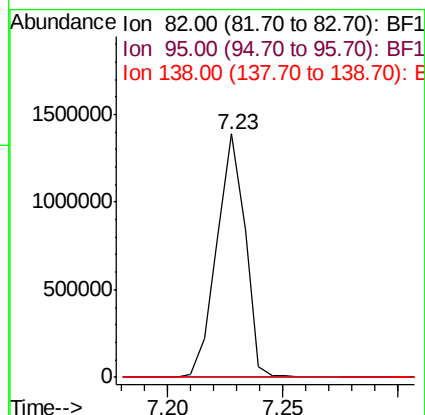
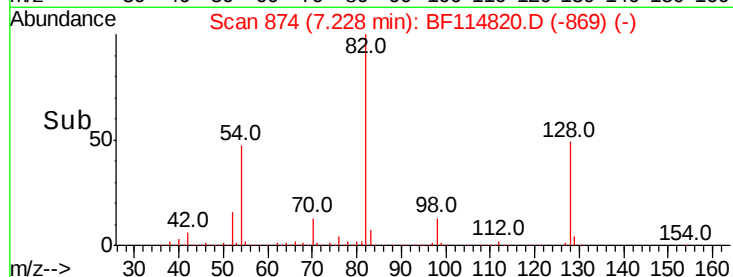
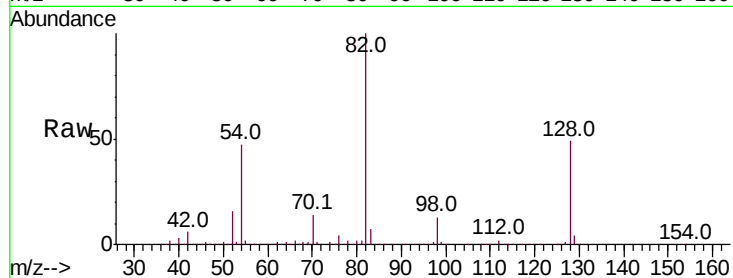
Tot Ion: 82 Resp: 1170074

Ion Ratio Lower Upper

82 100

95 0.1 5.8 8.8#

138 0.0 16.9 25.3#



#31

Naphthalene

Concen: 6.284 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

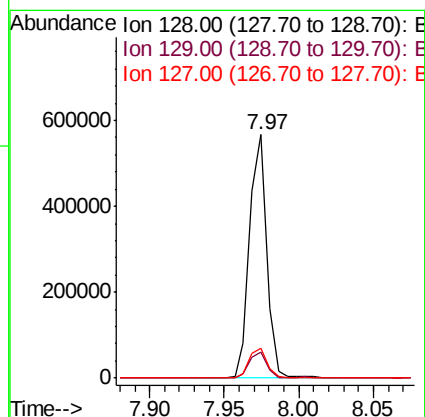
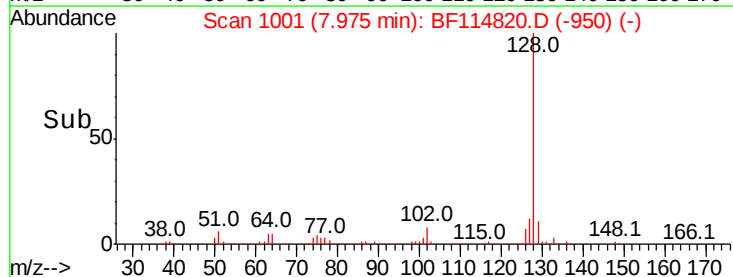
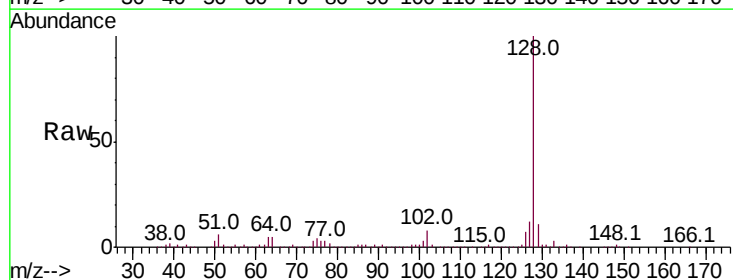
Tgt Ion: 128 Resp: 449624

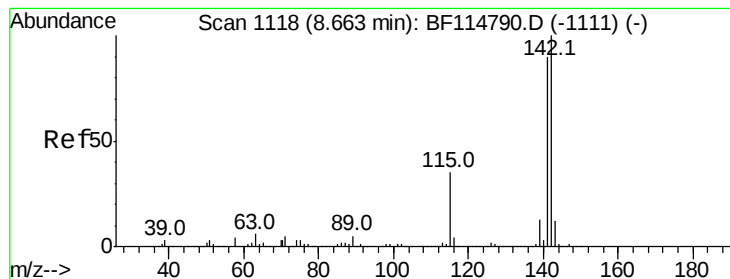
Ion Ratio Lower Upper

128 100

129 10.9 10.0 15.0

127 12.3 12.2 18.2





#37

2-Methylnaphthalene

Concen: 5.231 ng

RT: 8.66 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

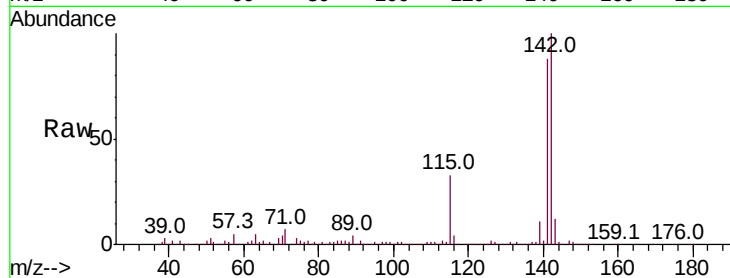
Tot Ion:142 Resp: 259597

Ion Ratio Lower Upper

142 100

141 88.3 71.6 107.4

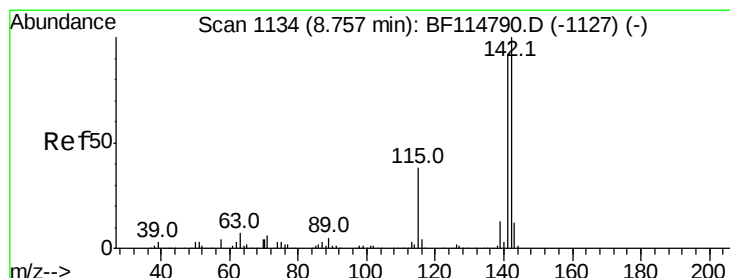
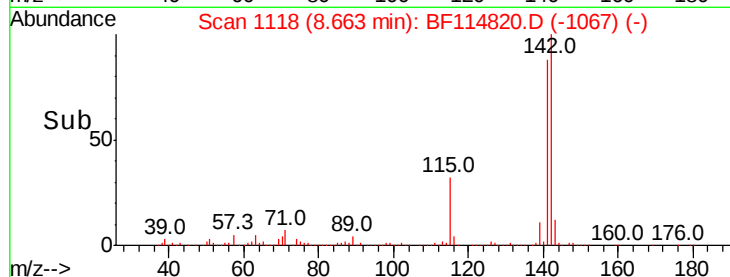
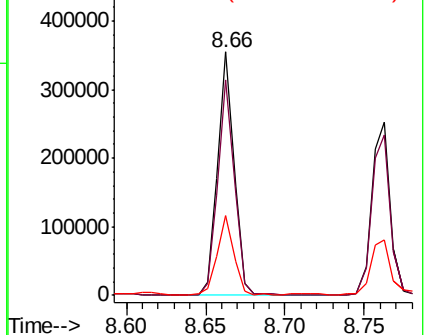
115 32.7 28.2 42.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 4.412 ng

RT: 8.76 min Scan# 1135

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

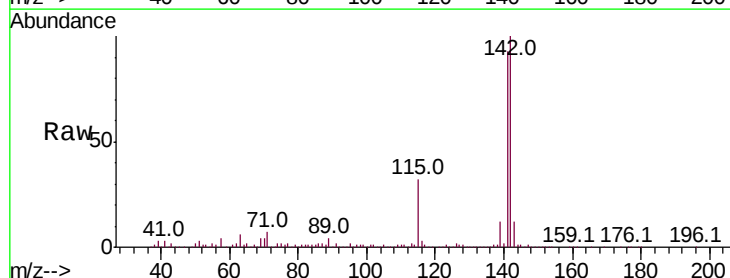
Tgt Ion:142 Resp: 207640

Ion Ratio Lower Upper

142 100

141 93.0 73.8 110.6

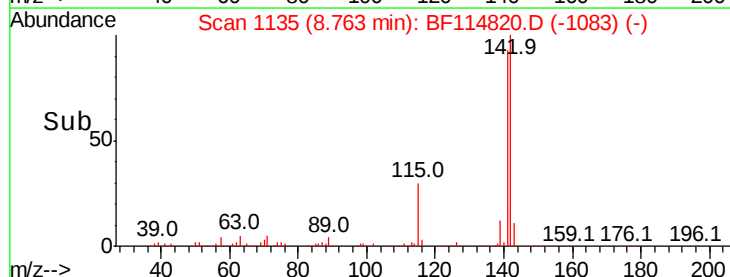
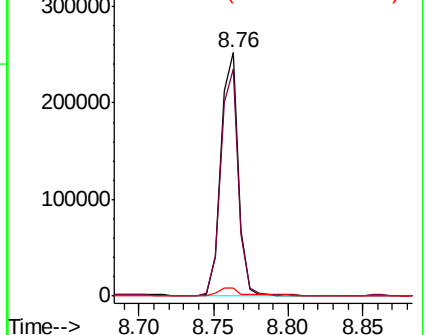
116 3.5 3.3 4.9

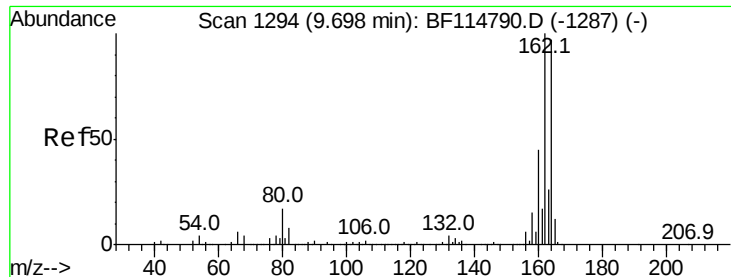


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

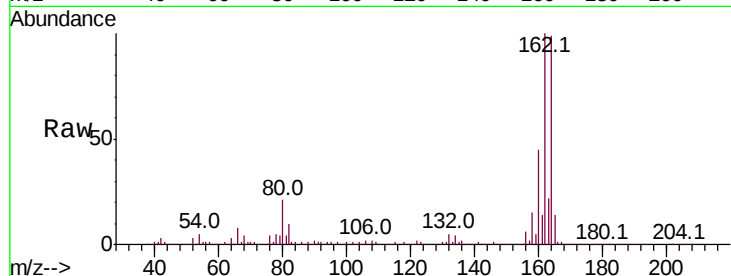




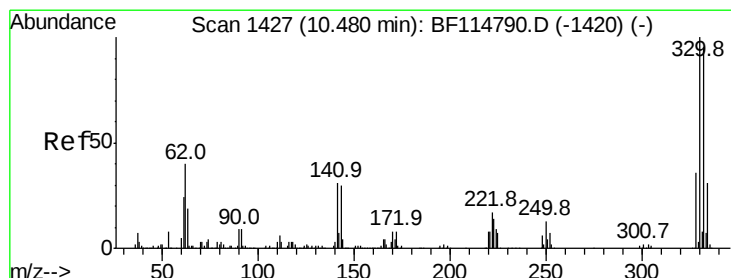
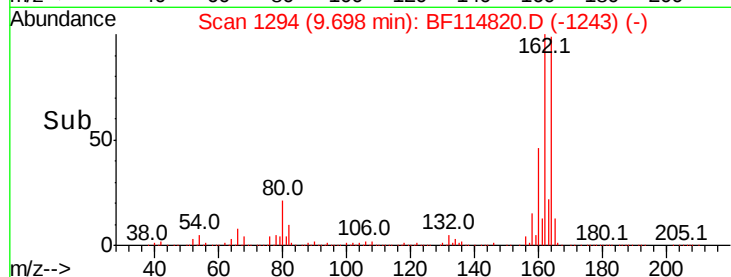
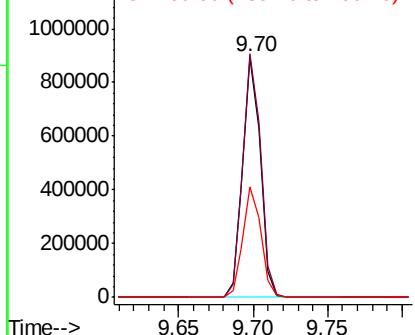
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.70 min Scan# 1294
 Delta R.T. -0.00 min
 Lab File: BF114820.D
 Acq: 5 Jun 2019 14:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.3	123.5
160	46.0	36.7	55.1

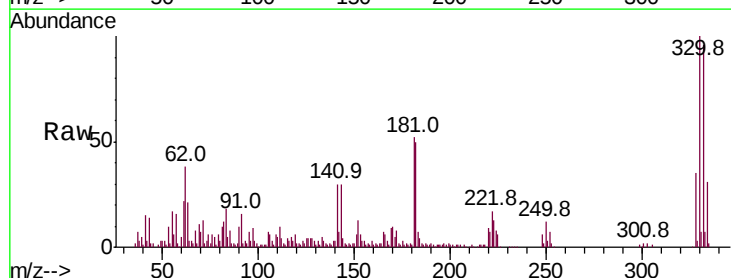


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

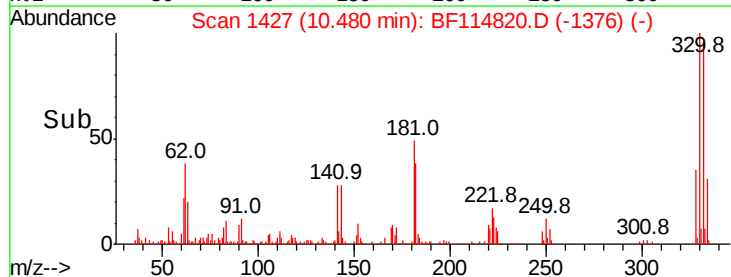
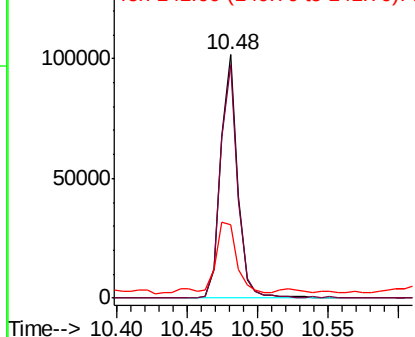


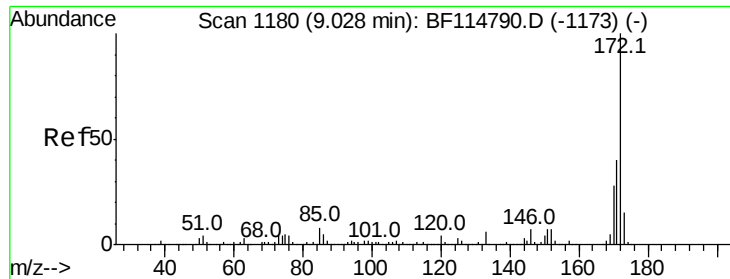
#42
 2,4,6-Tribromophenol
 Concen: 10.669 ng
 RT: 10.48 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: BF114820.D
 Acq: 5 Jun 2019 14:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.3	115.9
141	37.4	26.2	39.4



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

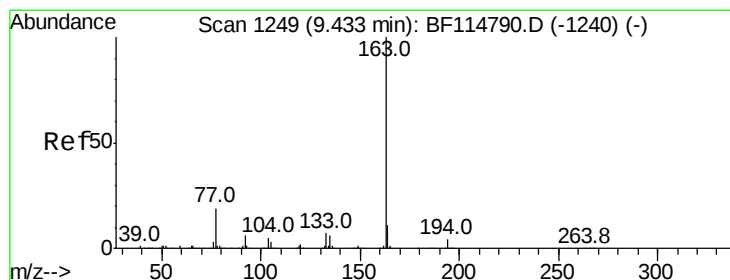
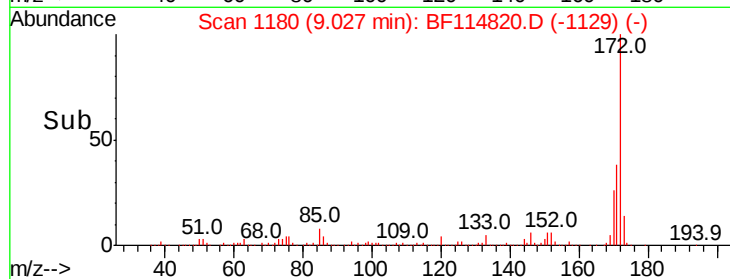
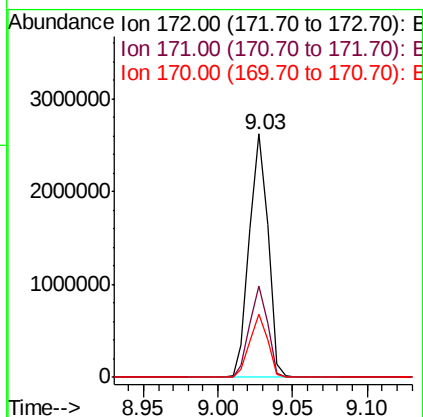
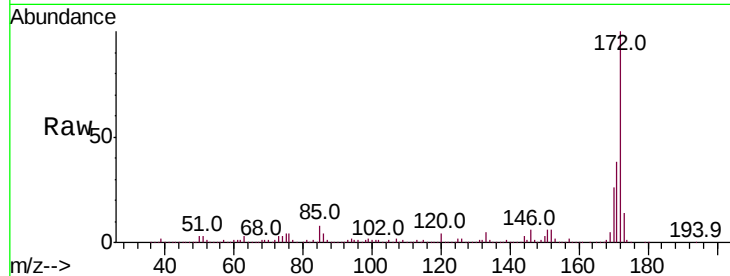




#45
2-Fluorobiphenyl
Concen: 57.601 ng
RT: 9.03 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

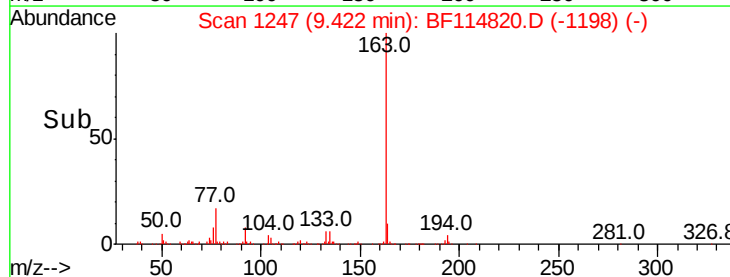
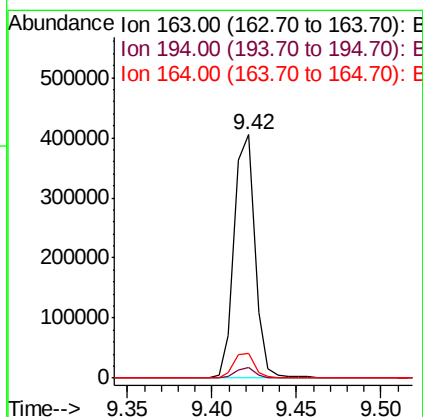
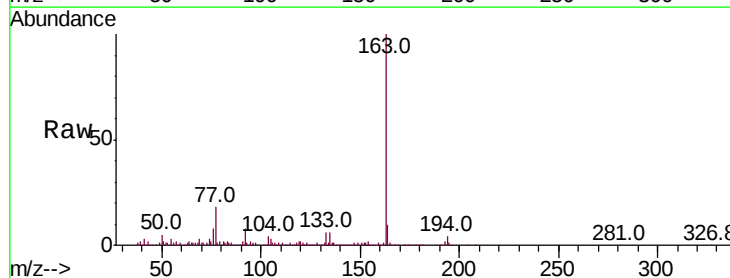
Instrument :
BNA_F
ClientSampleId :

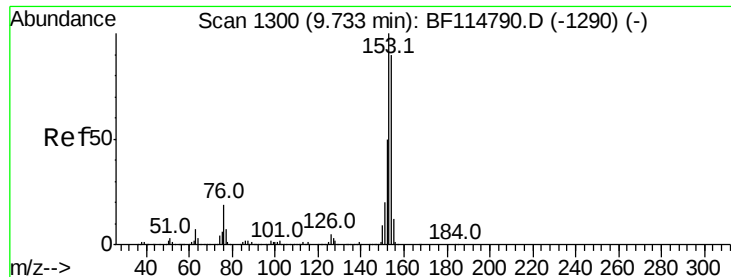
Tot Ion:172 Resp: 2270352
Ion Ratio Lower Upper
172 100
171 37.8 32.3 48.5
170 25.8 22.4 33.6



#50
Dimethylphthalate
Concen: 6.397 ng
RT: 9.42 min Scan# 1247
Delta R.T. -0.01 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion:163 Resp: 344949
Ion Ratio Lower Upper
163 100
194 4.4 3.4 5.2
164 10.0 8.6 13.0





#52

Acenaphthene

Concen: 3.848 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampled :

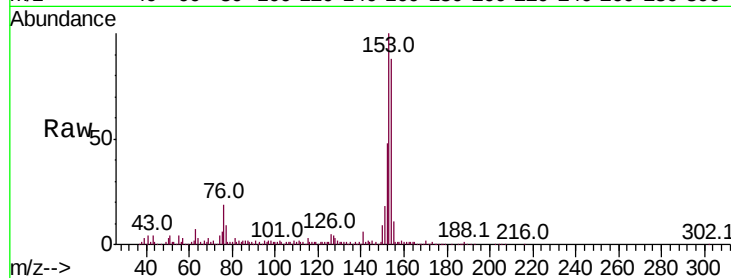
Tot Ion:154 Resp: 169973

Ion Ratio Lower Upper

154 100

153 113.9 88.5 132.7

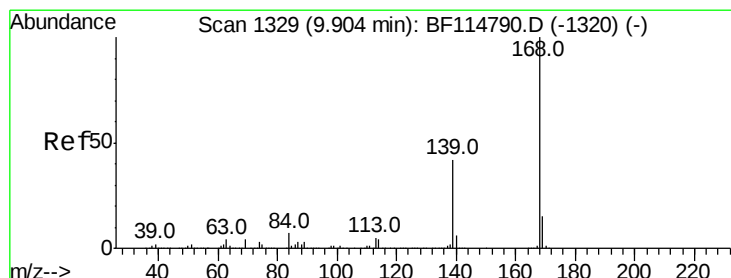
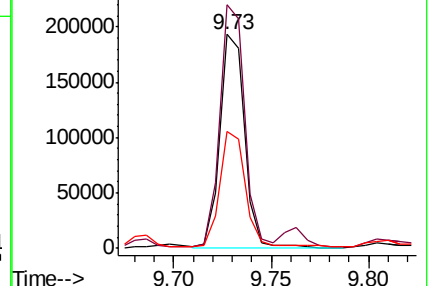
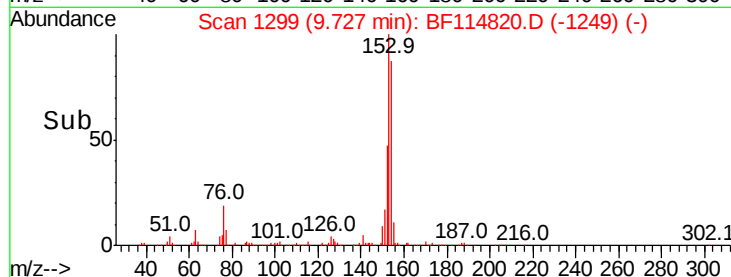
152 54.5 44.1 66.1



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



#55

Dibenzofuran

Concen: 2.902 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.00 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

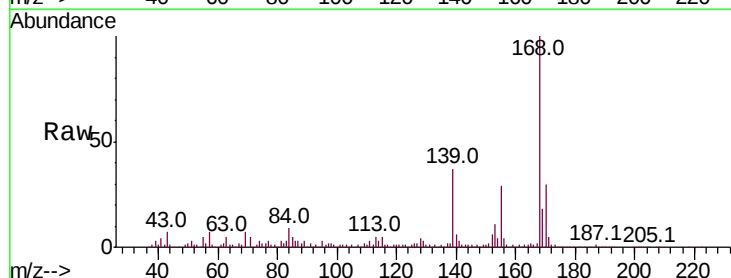
Tgt Ion:168 Resp: 178267

Ion Ratio Lower Upper

168 100

139 37.0 33.8 50.6

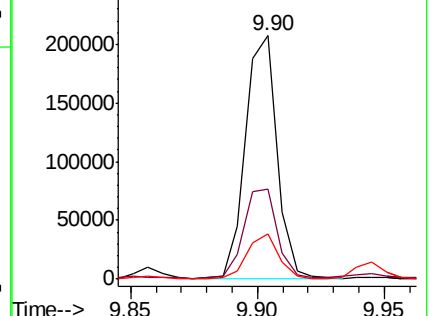
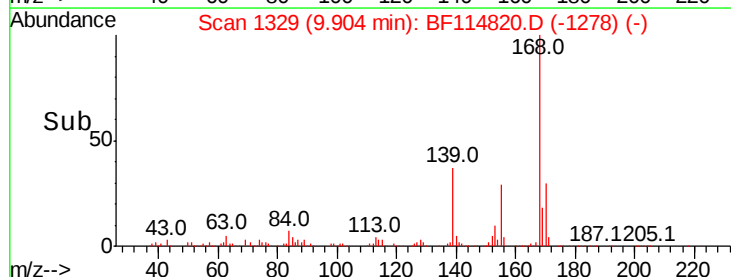
169 18.4 11.9 17.9#

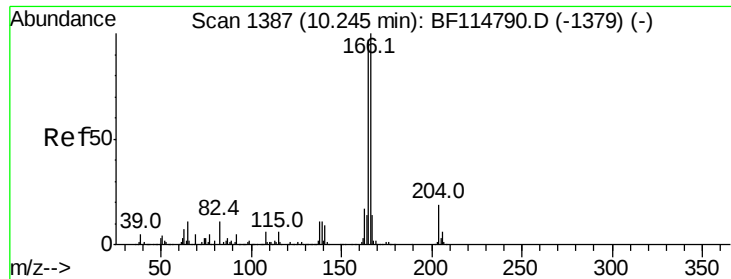


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: Below Cal

RT: 10.25 min Scan# 1387

Delta R.T. 0.00 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

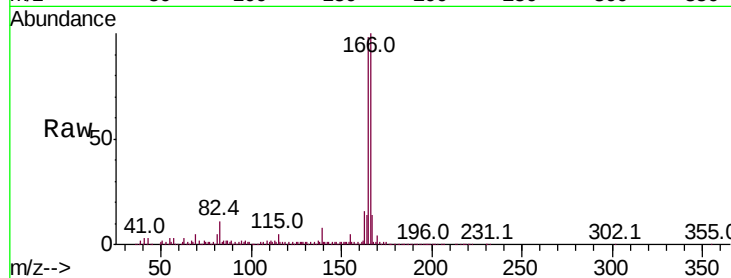
Tot Ion:166 Resp: 284552

Ion Ratio Lower Upper

166 100

165 98.3 77.9 116.9

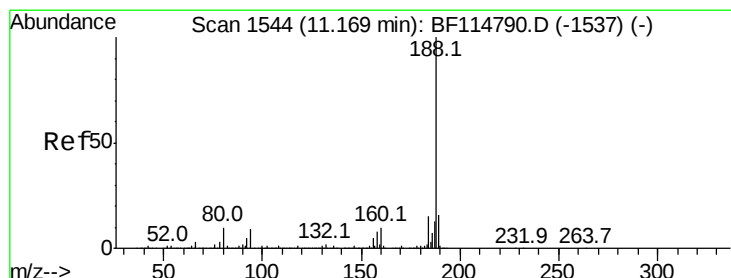
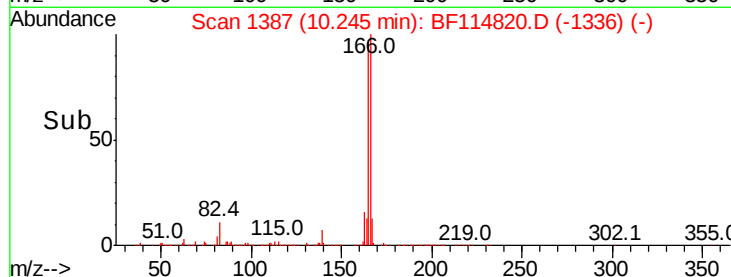
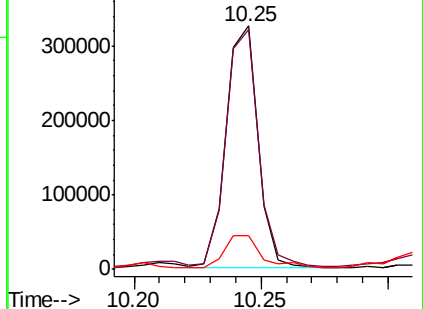
167 13.8 11.3 16.9



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.17 min Scan# 1545

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

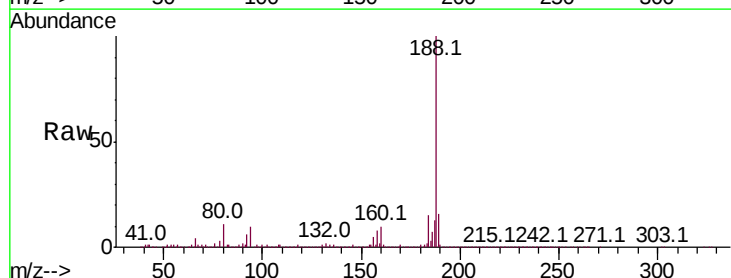
Tgt Ion:188 Resp: 1336936

Ion Ratio Lower Upper

188 100

94 9.9 7.6 11.4

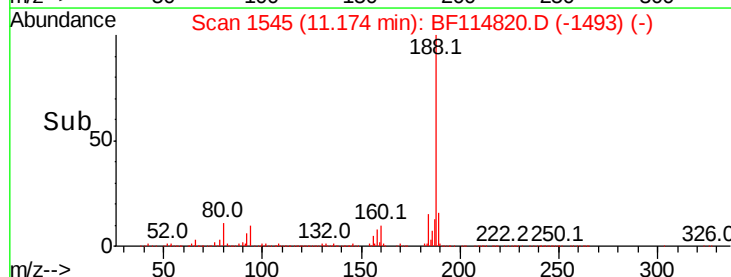
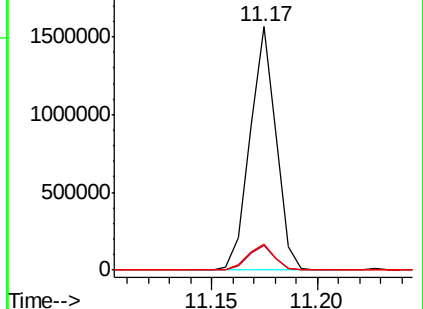
80 10.6 8.3 12.5

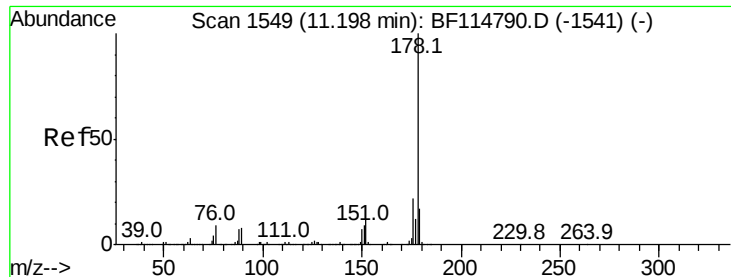


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

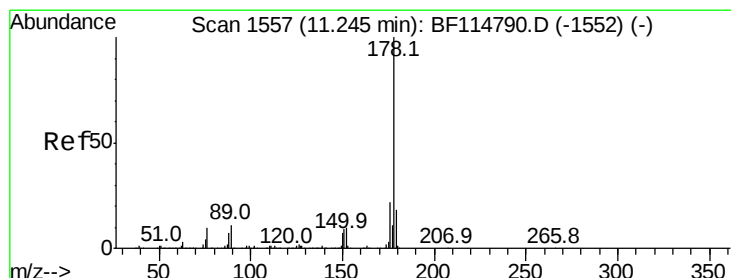
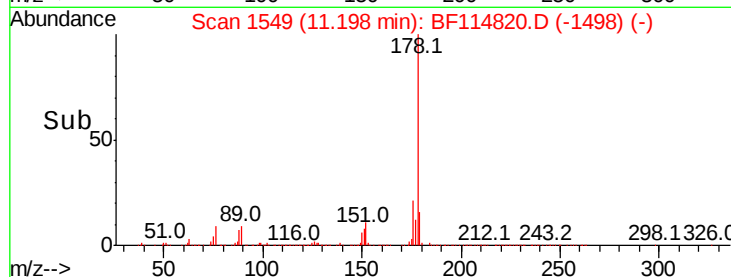
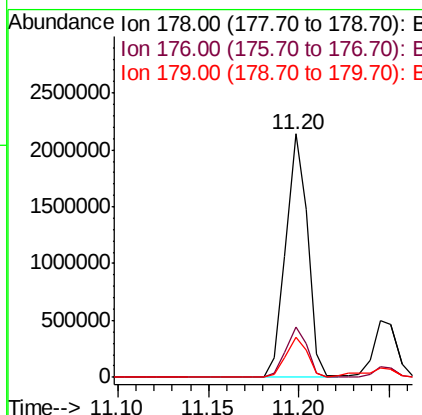
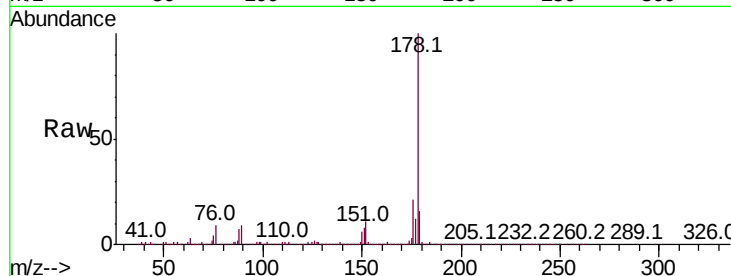




#71
Phenanthrene
Concen: 28.143 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

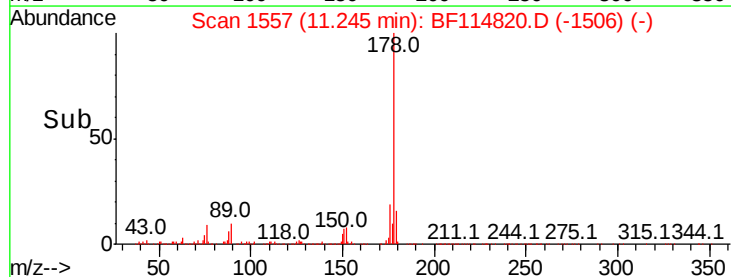
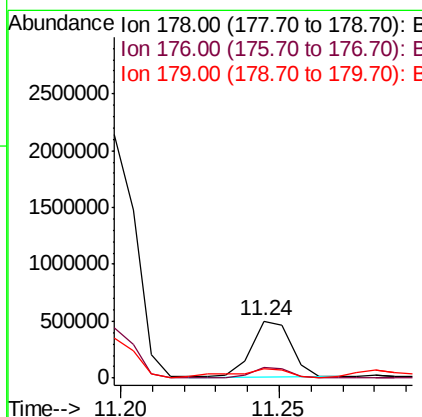
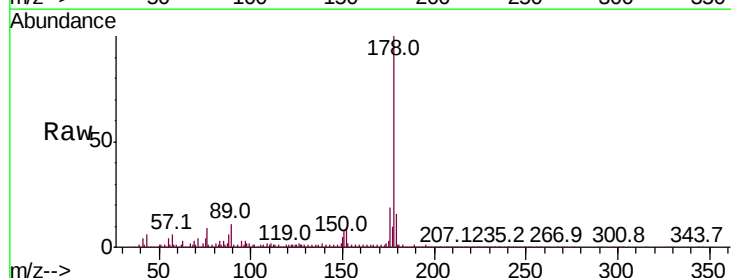
Instrument :
BNA_F
ClientSampled :

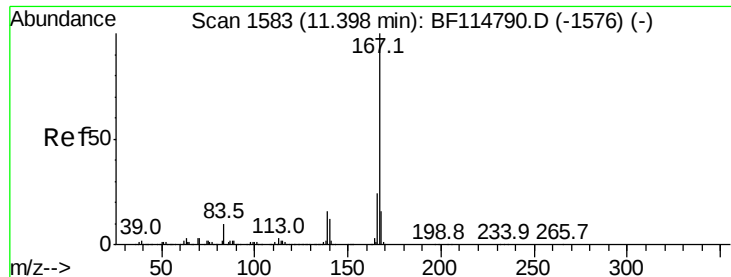
Tot Ion:178 Resp: 1796209
Ion Ratio Lower Upper
178 100
176 20.7 17.7 26.5
179 16.3 13.7 20.5



#72
Anthracene
Concen: 6.461 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.00 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion:178 Resp: 433977
Ion Ratio Lower Upper
178 100
176 18.8 17.4 26.0
179 16.4 14.2 21.4

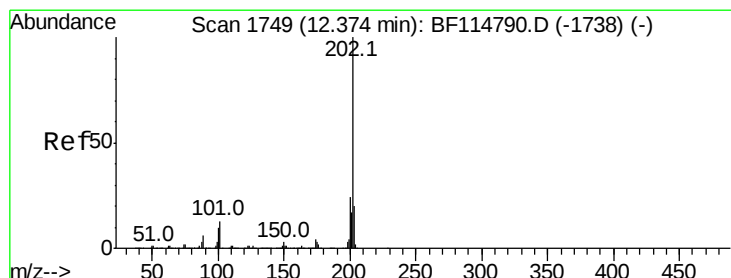
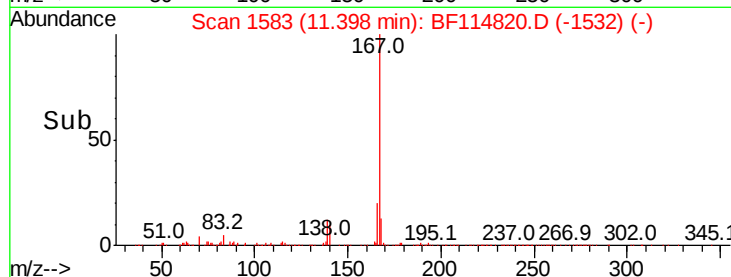
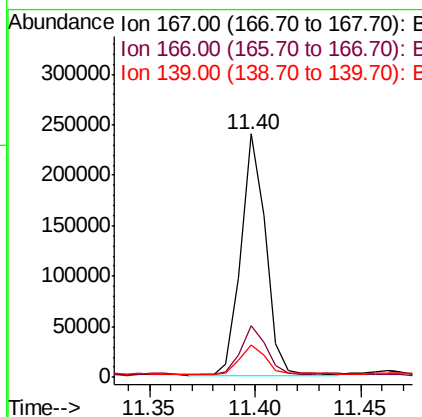
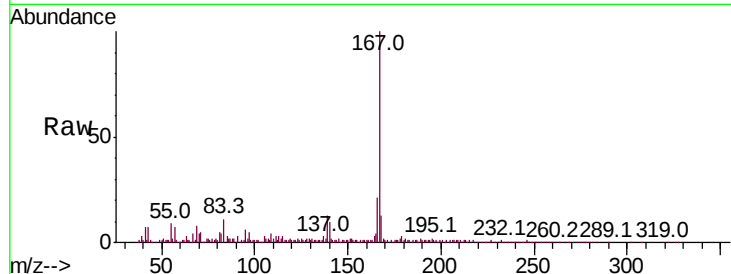




#73
 Carbazole
 Concen: 3.350 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF114820.D
 Acq: 5 Jun 2019 14:51

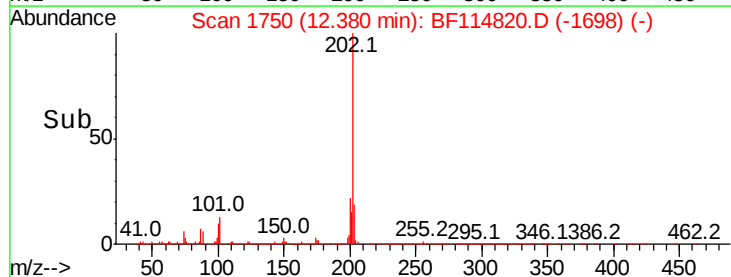
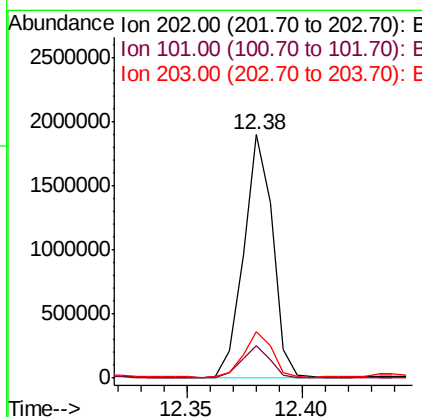
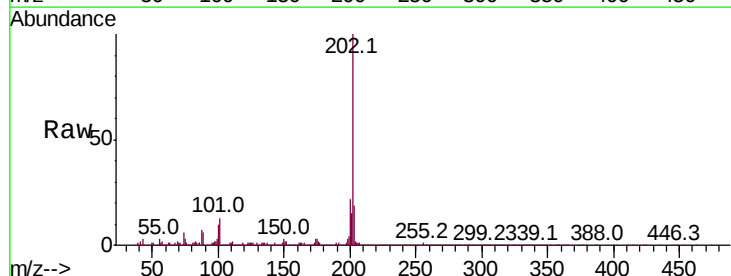
Instrument :
 BNA_F
 ClientSampleId :

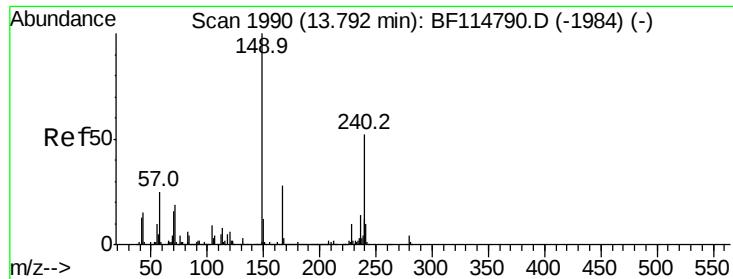
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.3	19.1	28.7
139	13.3	12.4	18.6



#75
 Fluoranthene
 Concen: 24.869 ng
 RT: 12.38 min Scan# 1750
 Delta R.T. 0.01 min
 Lab File: BF114820.D
 Acq: 5 Jun 2019 14:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	32.8
203	18.9	0.2	40.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1991

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

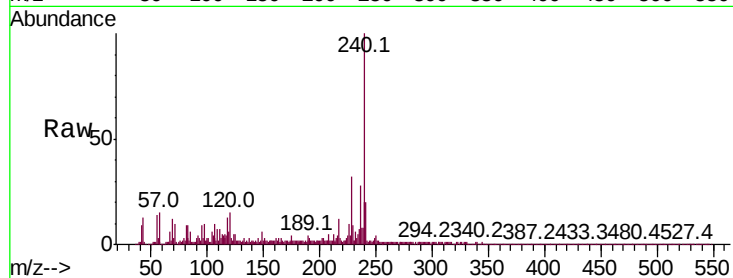
Tot Ion:240 Resp: 725321

Ion Ratio Lower Upper

240 100

120 14.8 9.0 13.4#

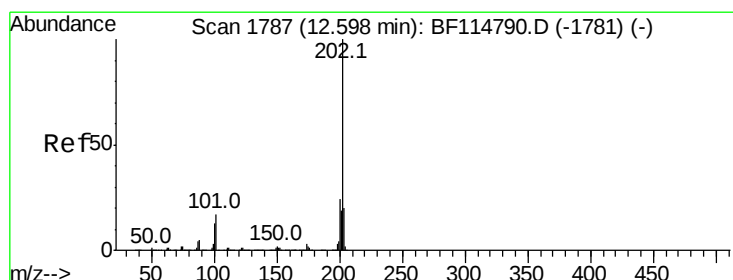
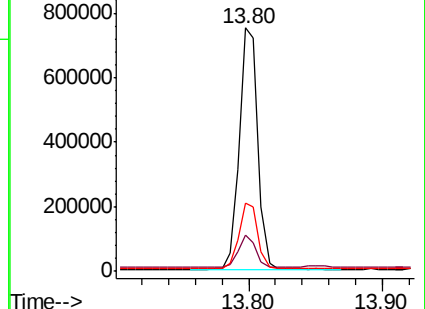
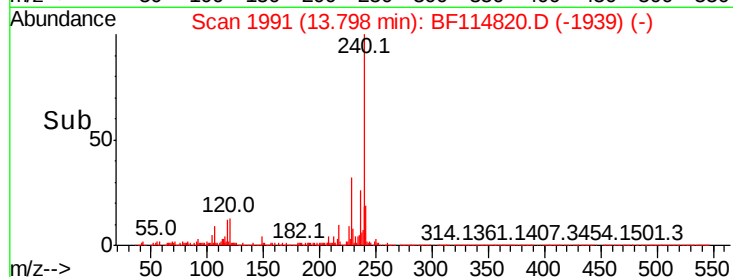
236 27.9 21.4 32.0



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: 24.019 ng

RT: 12.61 min Scan# 1789

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

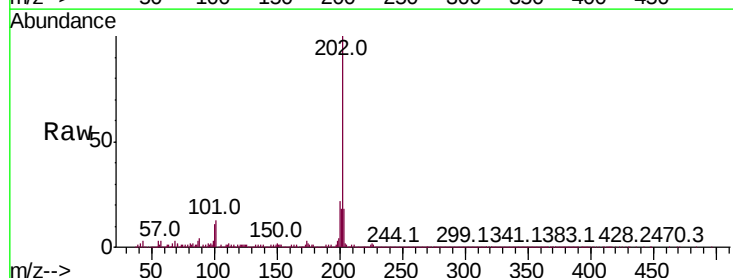
Tgt Ion:202 Resp: 1511343

Ion Ratio Lower Upper

202 100

200 22.0 19.2 28.8

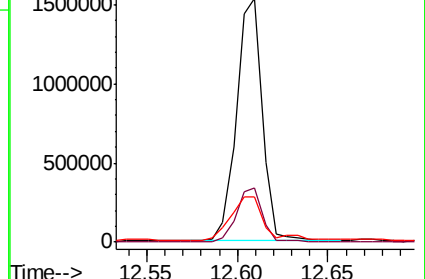
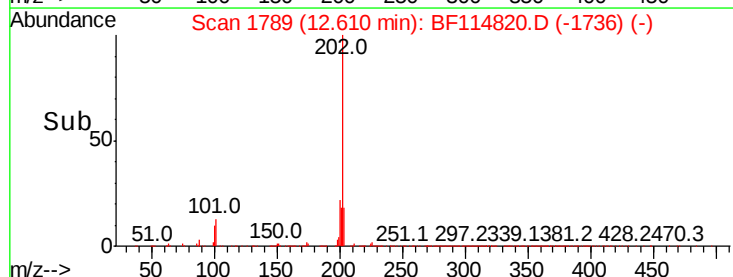
203 18.4 15.9 23.9

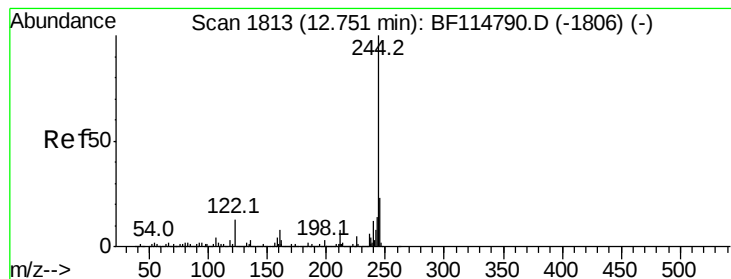


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 57.510 ng

RT: 12.76 min Scan# 1814

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

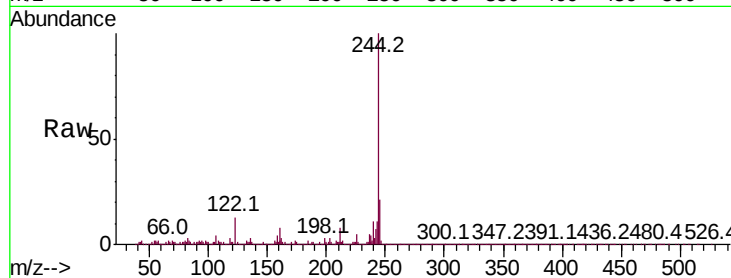
Tot Ion:244 Resp: 2144901

Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

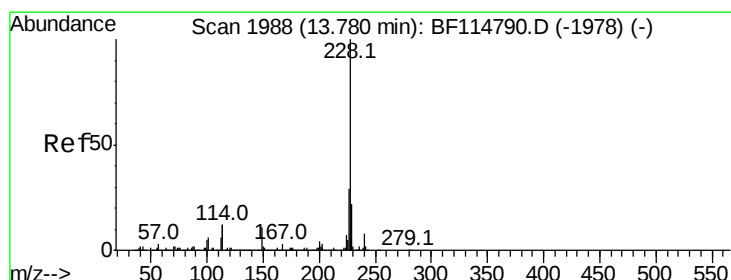
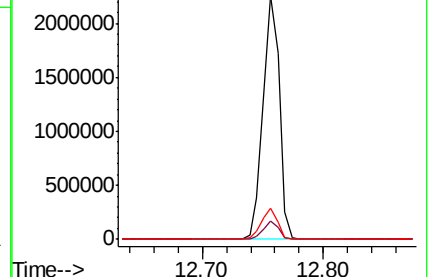
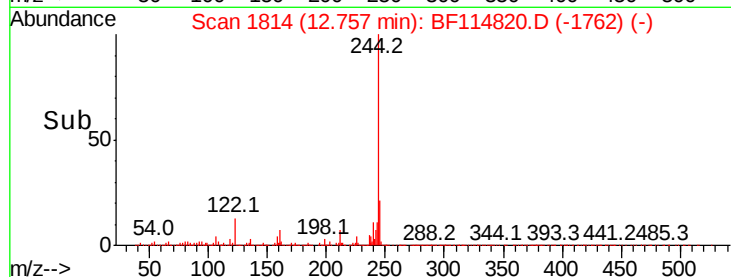
122 12.9 10.5 15.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 9.245 ng

RT: 13.79 min Scan# 1990

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

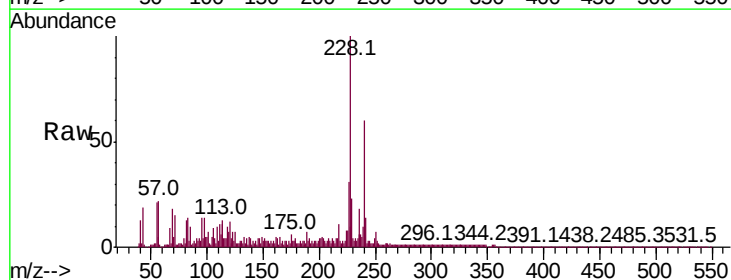
Tgt Ion:228 Resp: 516707

Ion Ratio Lower Upper

228 100

226 30.7 23.4 35.2

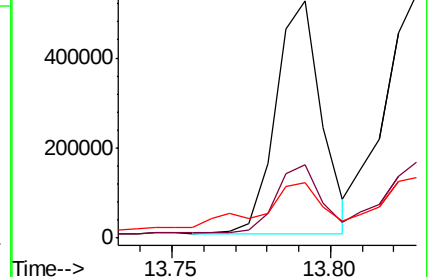
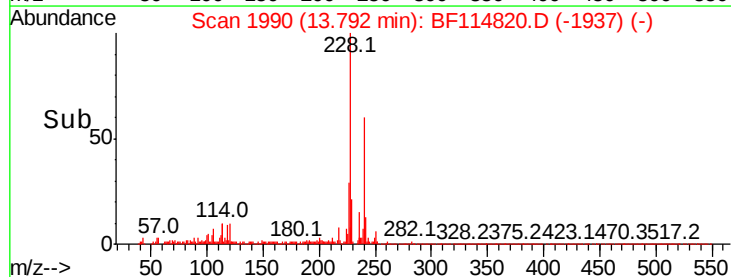
229 23.4 17.4 26.0

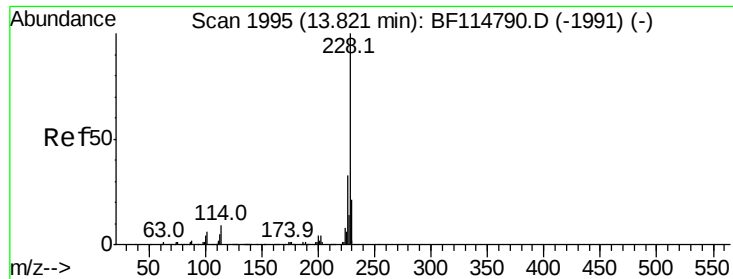


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 10.159 ng

RT: 13.83 min Scan# 1996

Delta R.T. 0.01 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

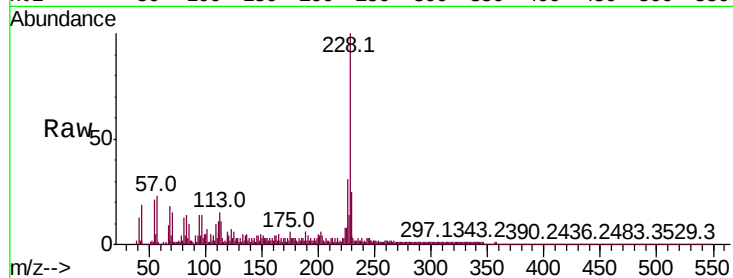
Tot Ion:228 Resp: 552385

Ion Ratio Lower Upper

228 100

226 31.3 26.0 39.0

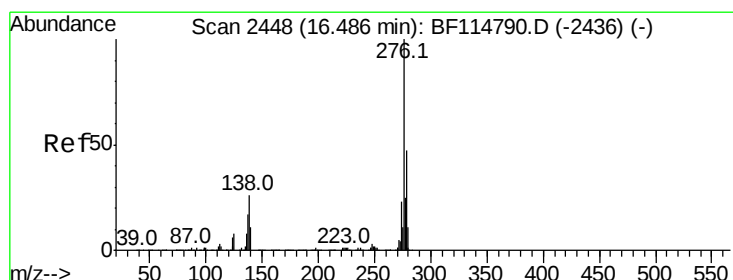
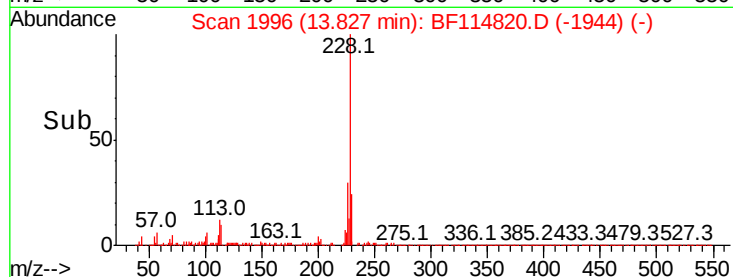
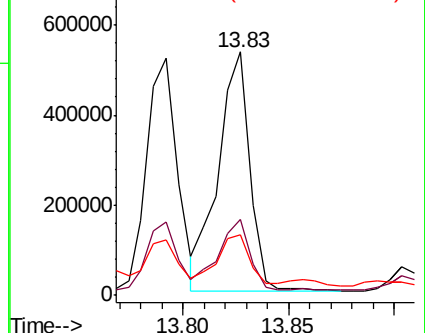
229 25.1 17.1 25.7



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: 2.858 ng

RT: 16.52 min Scan# 2454

Delta R.T. 0.04 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

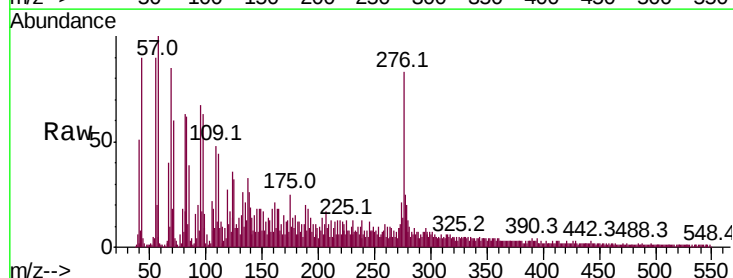
Tgt Ion:276 Resp: 177314

Ion Ratio Lower Upper

276 100

138 26.1 22.2 33.4

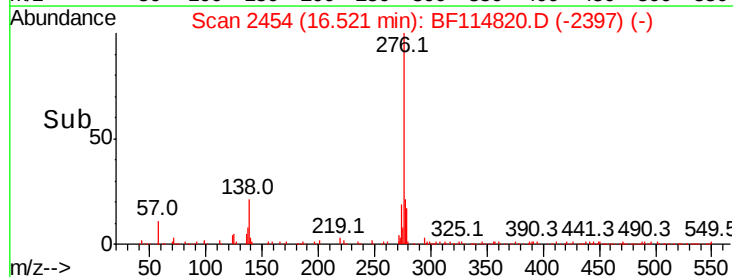
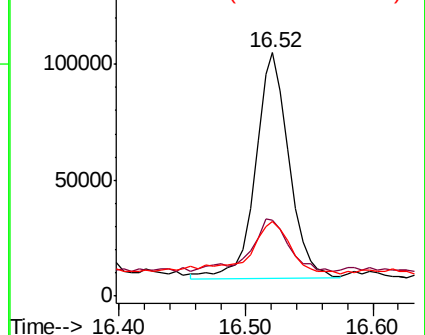
277 28.9 20.6 30.8

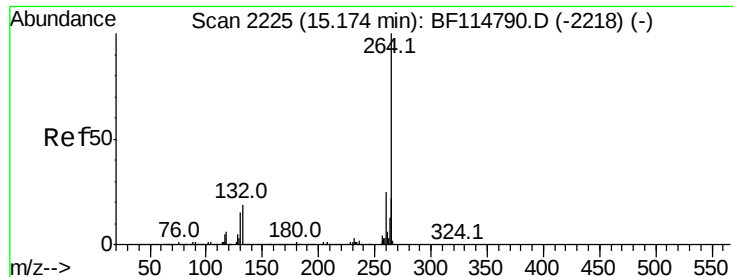


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



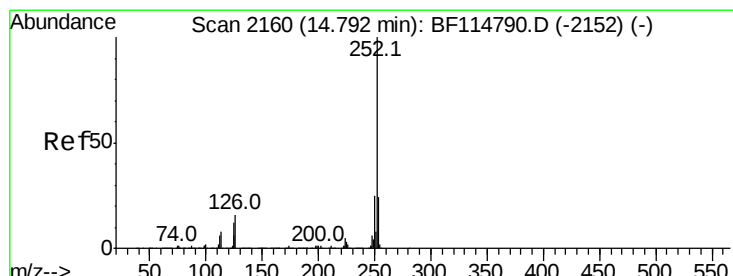
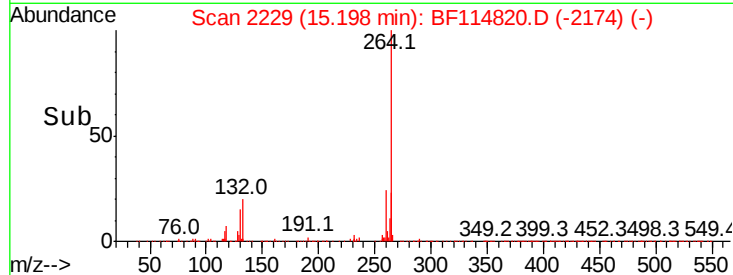
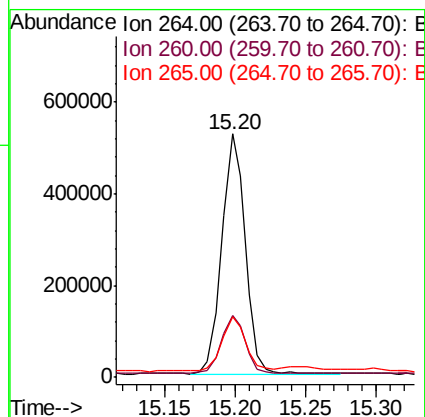
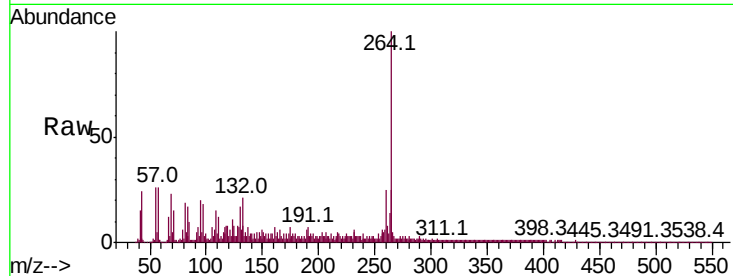


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.02 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 602791

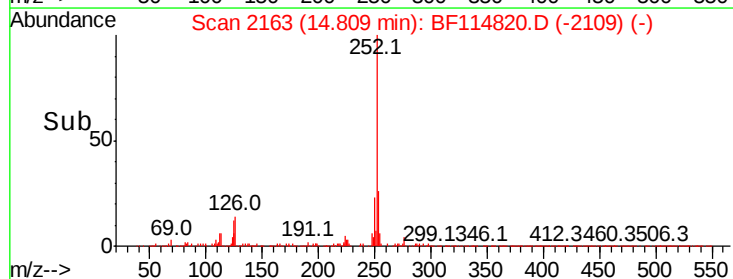
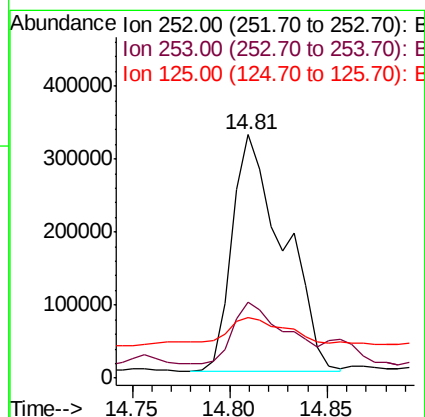
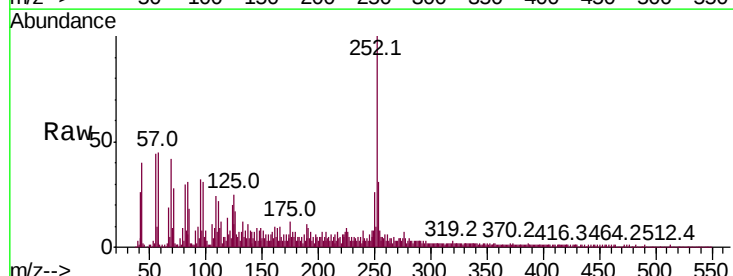
Ion	Ratio	Lower	Upper
264	100		
260	25.4	20.1	30.1
265	24.6	17.7	26.5

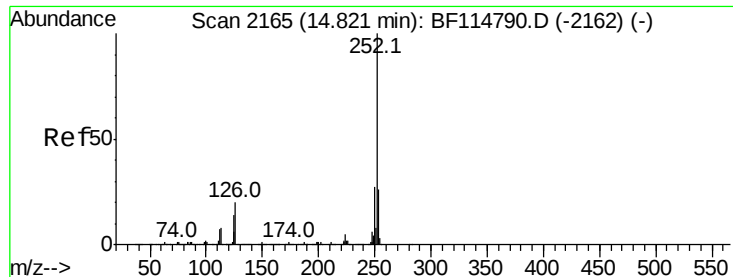


#88
Benzo(b)fluoranthene
Concen: 15.366 ng
RT: 14.81 min Scan# 2163
Delta R.T. 0.02 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion:252 Resp: 589655

Ion	Ratio	Lower	Upper
252	100		
253	31.1	19.0	28.6#
125	24.9	9.4	14.0#

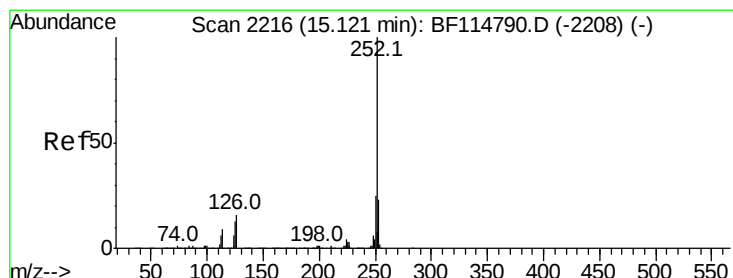
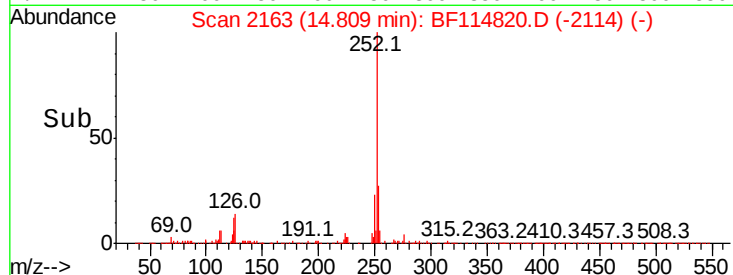
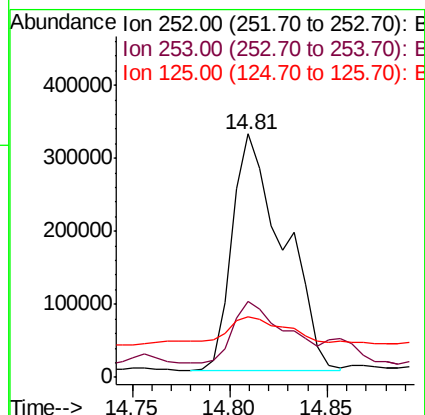
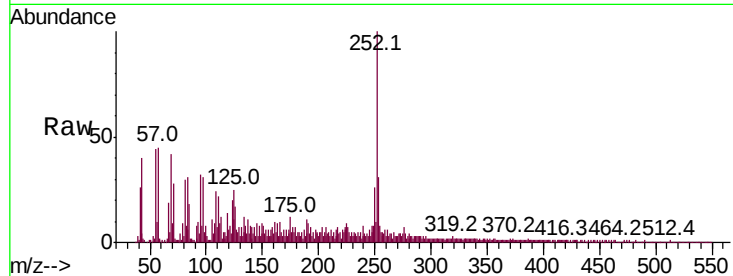




#89
Benzo(k)fluoranthene
Concen: 18.094 ng
RT: 14.81 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

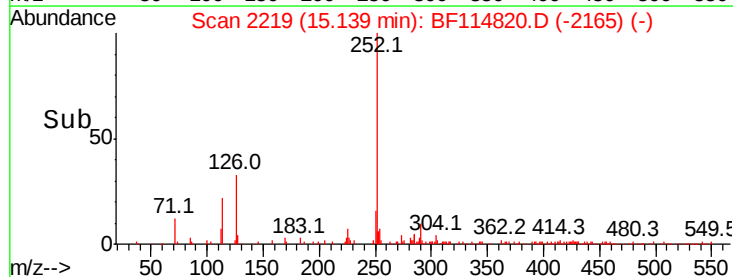
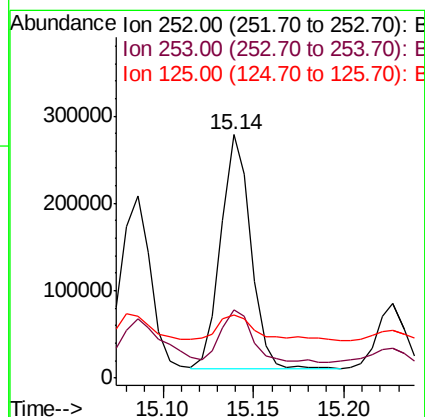
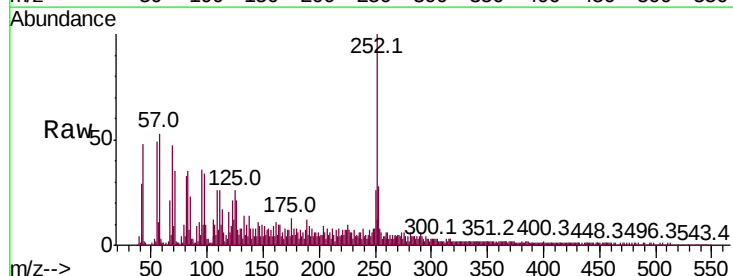
Instrument :
BNA_F
ClientSampleId :

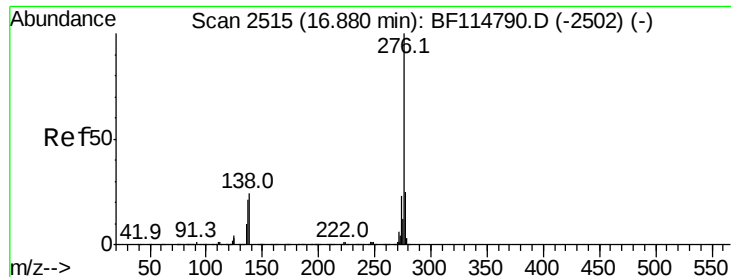
Tot Ion	Ratio	Lower	Upper
252	100		
253	31.1	19.3	28.9#
125	24.9	10.1	15.1#



#90
Benzo(a)pyrene
Concen: 9.299 ng
RT: 15.14 min Scan# 2219
Delta R.T. 0.02 min
Lab File: BF114820.D
Acq: 5 Jun 2019 14:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.0	18.5	27.7#
125	26.1	10.1	15.1#





#92

Benzo(a,h,i)perylene

Concen: 5.354 ng

RT: 16.92 min Scan# 2521

Delta R.T. 0.04 min

Lab File: BF114820.D

Acq: 5 Jun 2019 14:51

Instrument :

BNA_F

ClientSampleId :

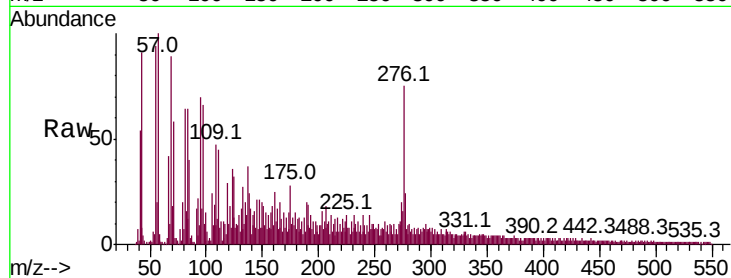
Tot Ion:276 Resp: 169367

Ion Ratio Lower Upper

276 100

277 32.5 19.8 29.6#

138 32.7 19.4 29.2#



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

