

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012720\
 Data File : BF118719.D
 Acq On : 27 Jan 2020 14:36
 Operator : CG/JU
 Sample : L1238-01DL 250X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 27 15:30:29 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 27 14:24:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	327572	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	1236191	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	662426	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	1192968	20.00	ng	0.00
76) Chrysene-d12	14.02	240	802618	20.00	ng	0.00
87) Perylene-d12	15.47	264	698790	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	9499	0.54	ng	-0.01
7) Phenol-d6	6.47	99	12183	0.53	ng	-0.02
23) Nitrobenzene-d5	7.41	82	7314	0.33	ng	-0.01
42) 2,4,6-Tribromophenol	10.68	330	3241	0.42	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	15891	0.39	ng	-0.01
79) Terphenyl-d14	12.96	244	20076	0.55	ng	0.00

Target Compounds

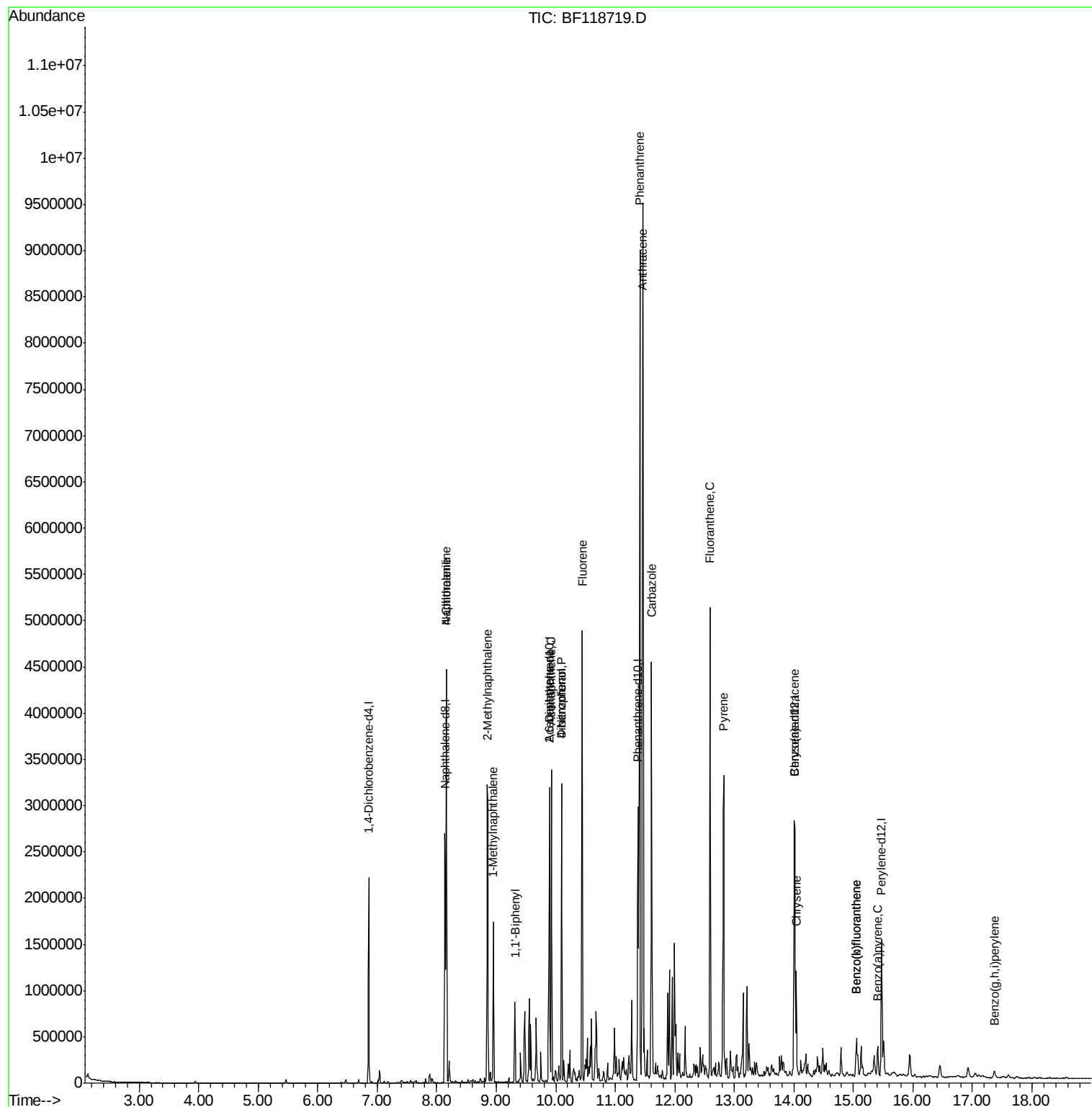
						Qvalue
31) Naphthalene	8.16	128	1934513	34.642	ng	100
33) 4-Chloroaniline	8.16	127	264309	10.240	ng	# 33
37) 2-Methylnaphthalene	8.85	142	921155	23.369	ng	99
38) 1-Methylnaphthalene	8.95	142	426192	11.381	ng	98
46) 1,1'-Biphenyl	9.32	154	274338	6.009	ng	98
51) 2,6-Dinitrotoluene	9.89	165	108883	11.267	ng	# 29
52) Acenaphthene	9.93	154	645806	17.841	ng	99
55) Dibenzofuran	10.10	168	1152864	22.982	ng	97
56) 4-Nitrophenol	10.10	139	419935	50.409	ng	# 12
58) Fluorene	10.45	166	1383526	35.131	ng	100
71) Phenanthrene	11.41	178	3669405	63.756	ng	97
72) Anthracene	11.47	178	4679154	82.164	ng	96
73) Carbazole	11.61	167	1775089	33.982	ng	100
75) Fluoranthene	12.59	202	1975544	32.545	ng	100
78) Pyrene	12.82	202	1428409	26.214	ng	98
81) Benzo(a)anthracene	14.00	228	481739	9.978	ng	99
83) Chrysene	14.04	228	401362	8.674	ng	96
88) Benzo(b)fluoranthene	15.05	252	340229	7.746	ng	98
89) Benzo(k)fluoranthene	15.05	252	340229	8.361	ng	99
90) Benzo(a)pyrene	15.41	252	157945	4.168	ng	99
92) Benzo(g,h,i)perylene	17.37	276	65355	2.008	ng	97

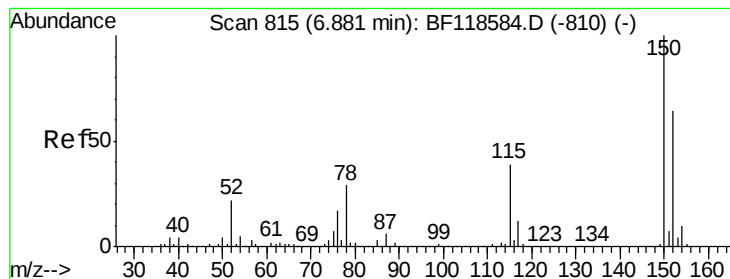
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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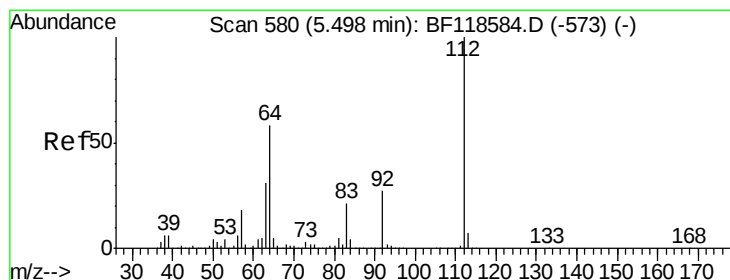
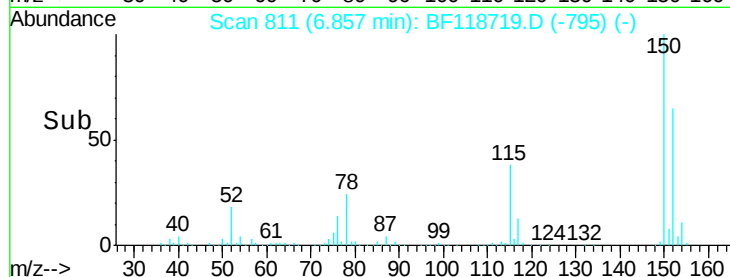
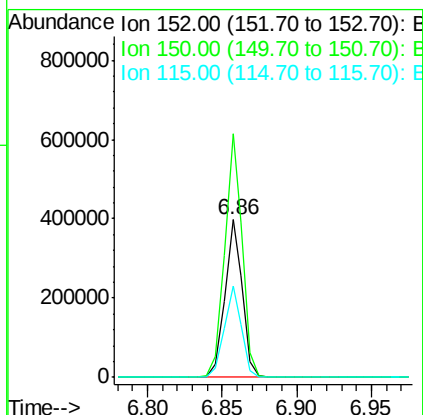
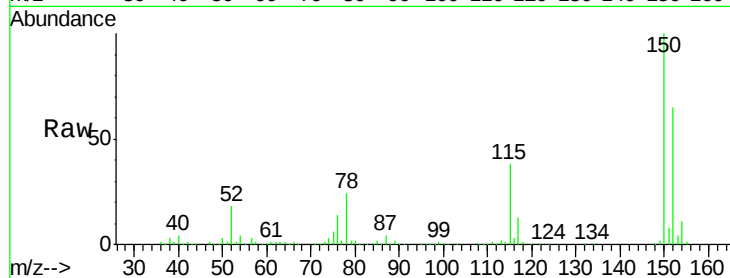




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

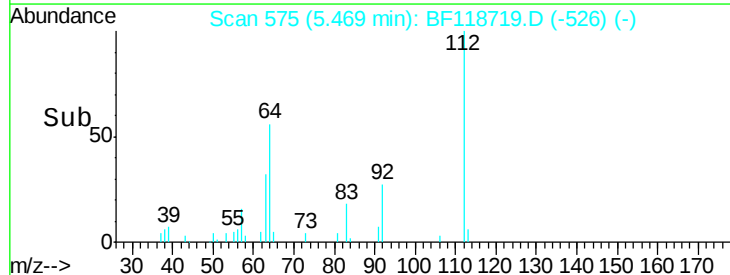
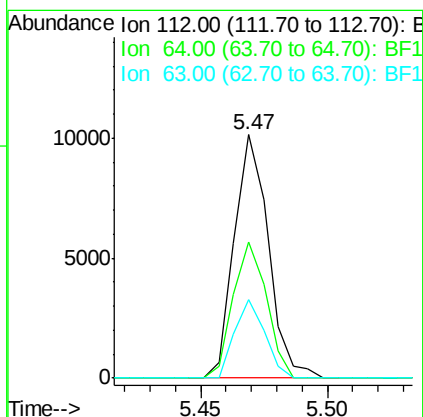
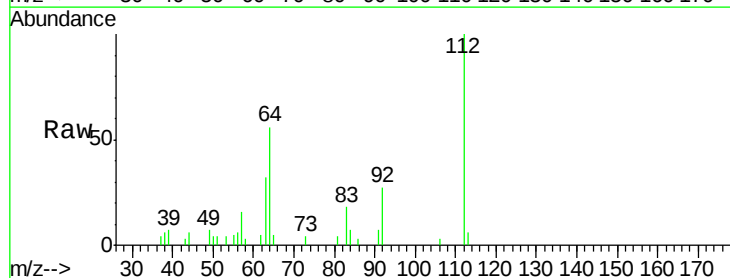
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 327572
 Ion Ratio Lower Upper
 152 100
 150 154.6 123.7 185.5
 115 58.1 45.1 67.7



#5
 2-Fluorophenol
 Concen: 0.539 ng
 RT: 5.47 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion:112 Resp: 9499
 Ion Ratio Lower Upper
 112 100
 64 55.7 42.4 63.6
 63 32.4 21.7 32.5





#7

Phenol-d6

Concen: 0.531 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampleId :

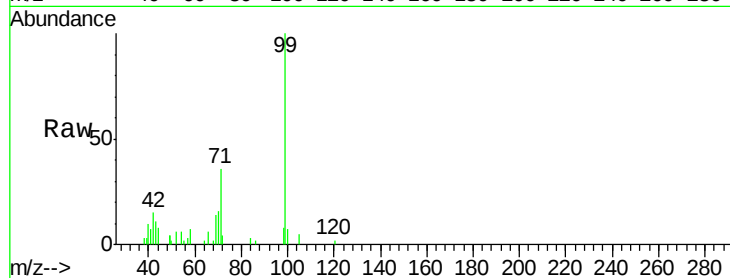
Tot Ion: 99 Resp: 12183

Ion Ratio Lower Upper

99 100

42 15.4 13.1 19.7

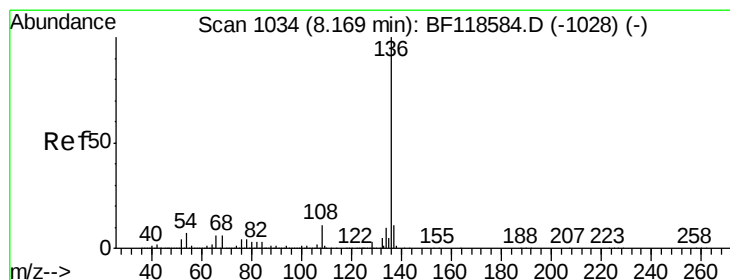
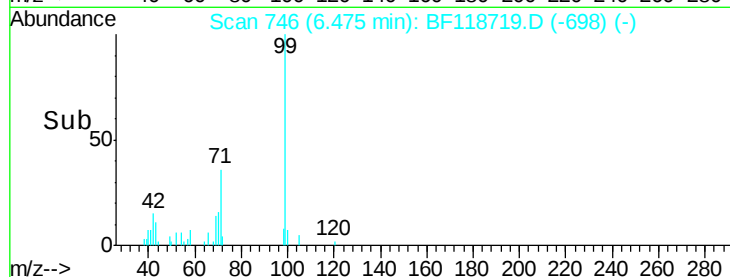
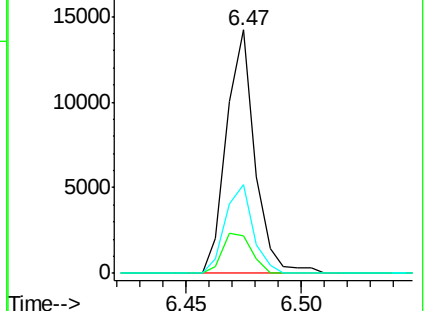
71 36.5 28.4 42.6



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Tgt Ion: 136 Resp: 1236191

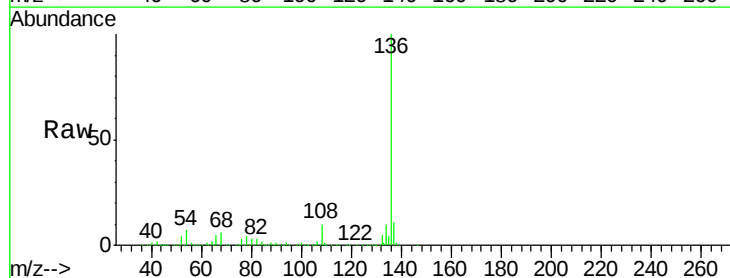
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 6.8 5.1 7.7

68 5.9 4.3 6.5

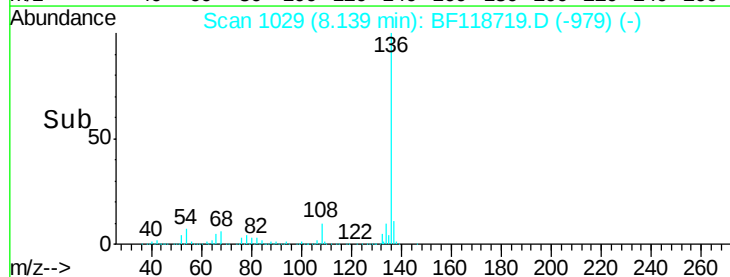
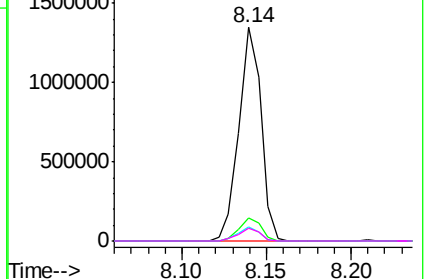


Abundance Ion 136.00 (135.70 to 136.70): E

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

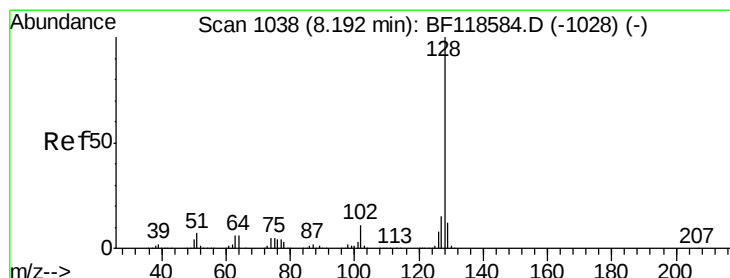
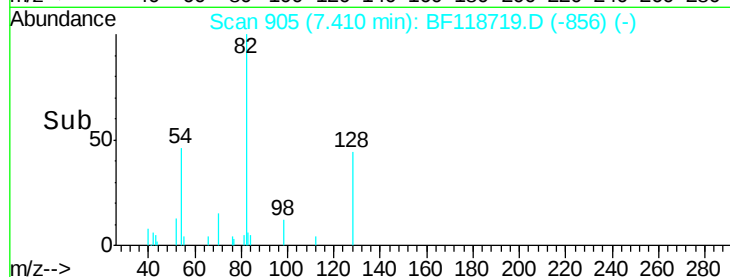
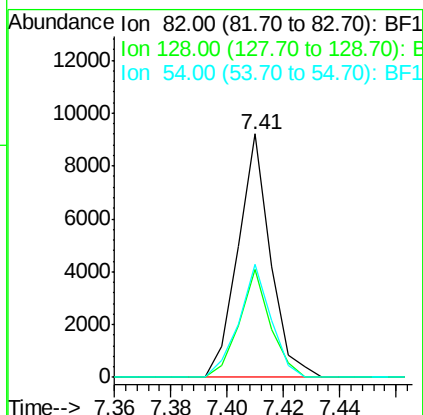
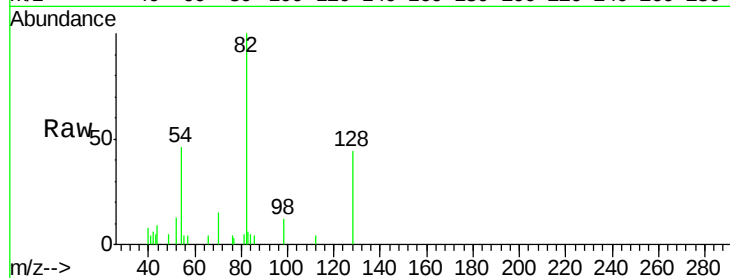




#23
 Nitrobenzene-d5
 Concen: 0.331 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

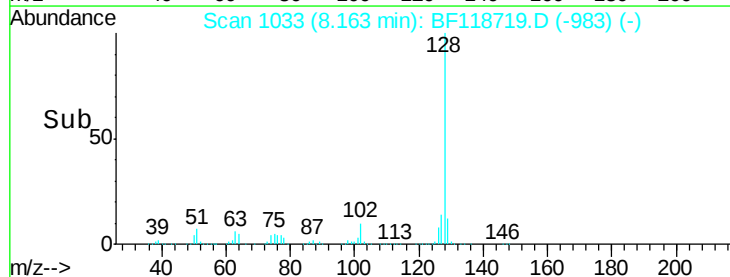
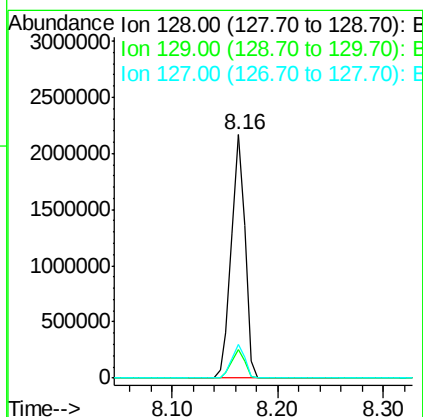
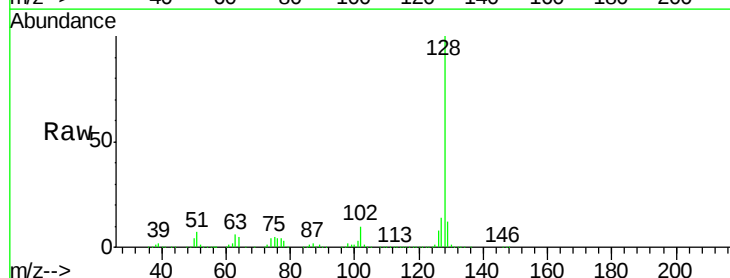
Instrument :
 BNA_F
 ClientSampleId :

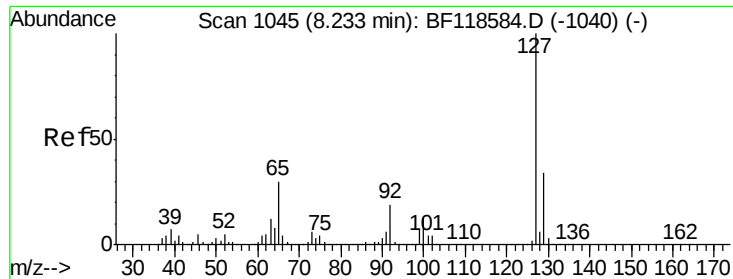
Tot Ion	82	Resp	7314
Ion Ratio	Lower	Upper	
82	100		
128	44.4	38.2	57.2
54	46.5	36.1	54.1



#31
 Naphthalene
 Concen: 34.642 ng
 RT: 8.16 min Scan# 1033
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion	128	Resp	1934513
Ion Ratio	Lower	Upper	
128	100		
129	12.0	9.4	14.0
127	14.1	11.3	16.9

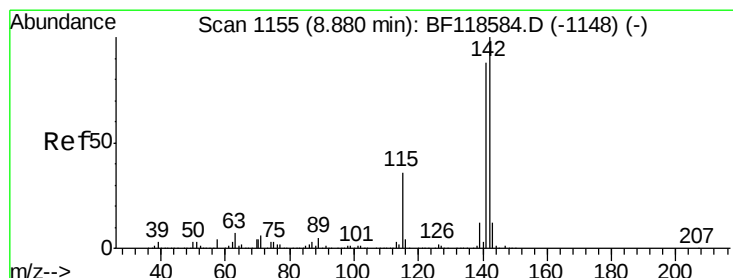
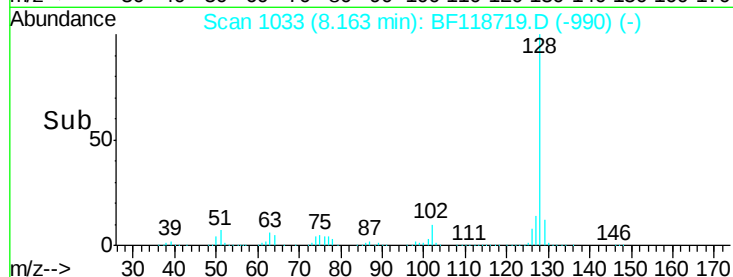
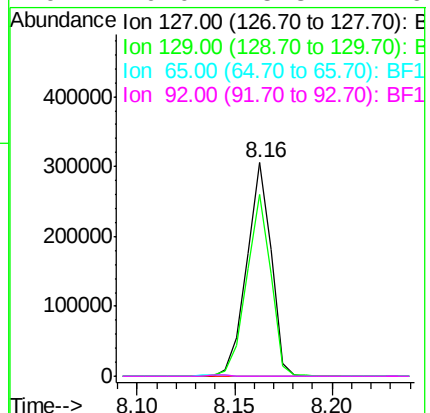
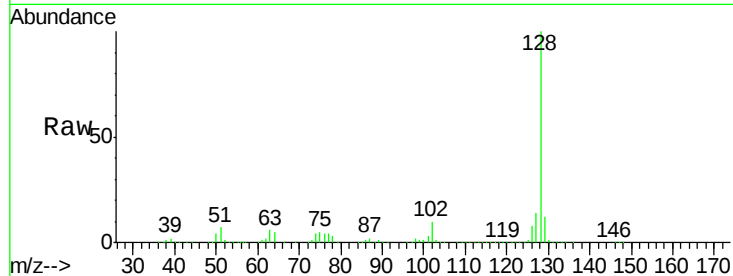




#33
 4-Chloroaniline
 Concen: 10.240 ng
 RT: 8.16 min Scan# 1033
 Delta R.T. -0.05 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

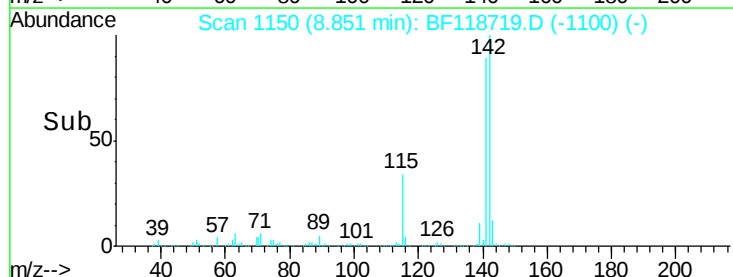
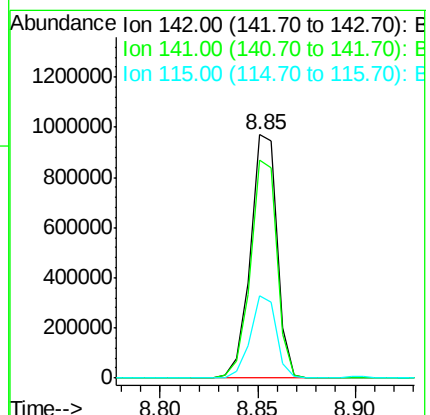
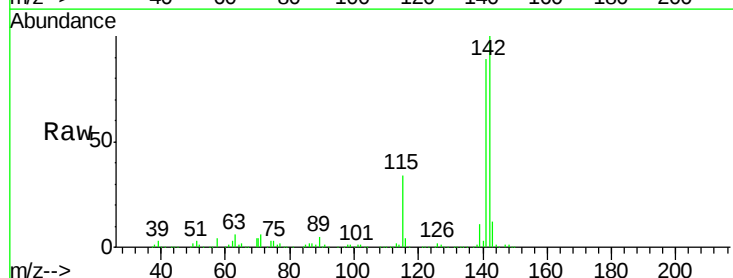
Instrument :
 BNA_F
 ClientSampleId :

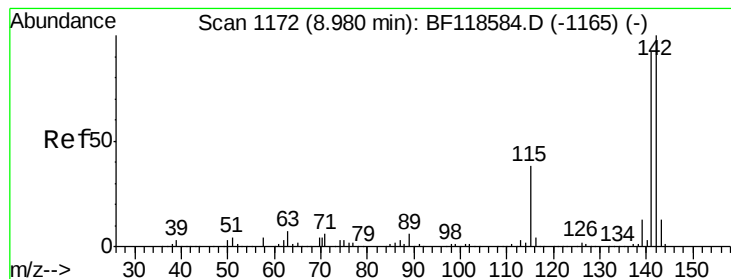
Tot Ion:	127	Resp:	264309
Ion	Ratio	Lower	Upper
127	100		
129	85.0	26.4	39.6#
65	0.0	22.6	33.8#
92	0.0	15.3	22.9#



#37
 2-Methylnaphthalene
 Concen: 23.369 ng
 RT: 8.85 min Scan# 1150
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion:	142	Resp:	921155
Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.4	107.0
115	33.7	27.5	41.3





#38

1-Methylnaphthalene

Concen: 11.381 ng

RT: 8.95 min Scan# 1167

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampleId :

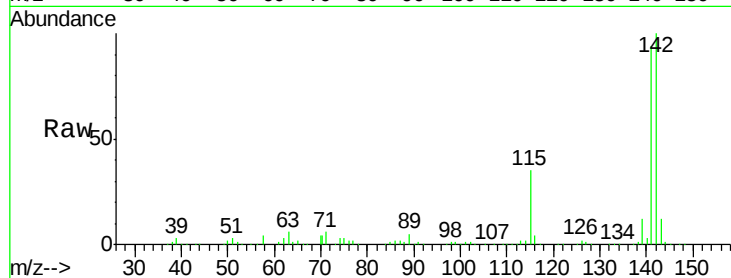
Tot Ion:142 Resp: 426192

Ion Ratio Lower Upper

142 100

141 94.2 73.5 110.3

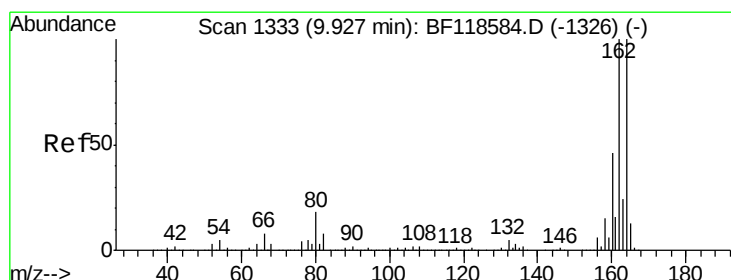
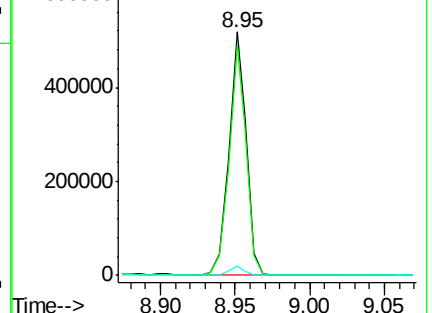
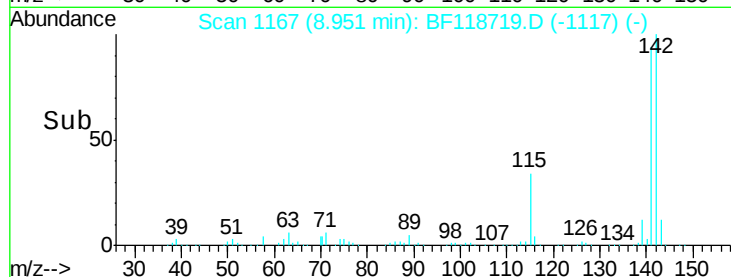
116 3.7 3.0 4.6



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: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

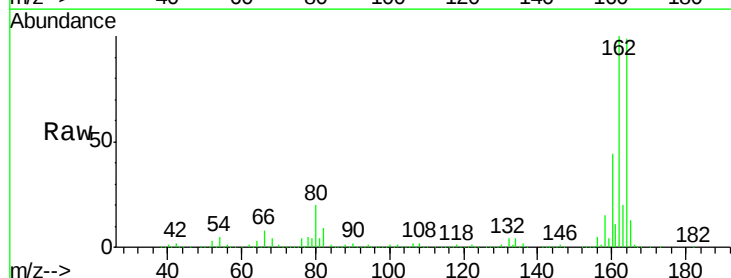
Tgt Ion:164 Resp: 662426

Ion Ratio Lower Upper

164 100

162 101.0 80.8 121.2

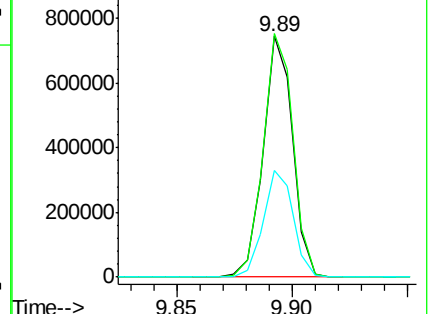
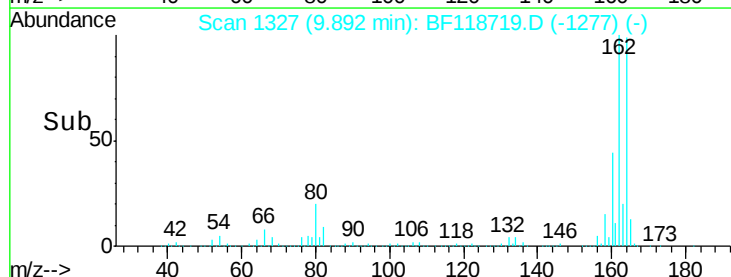
160 44.2 35.4 53.0

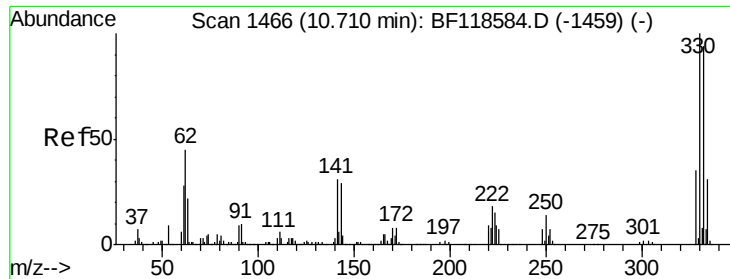


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

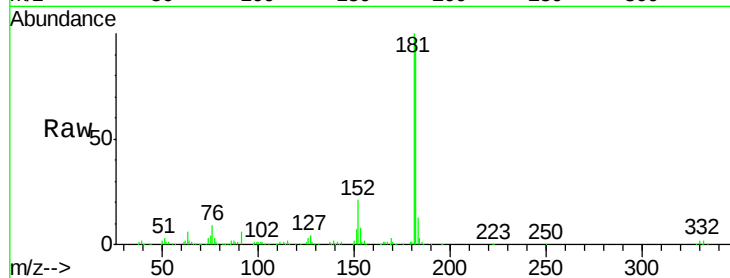




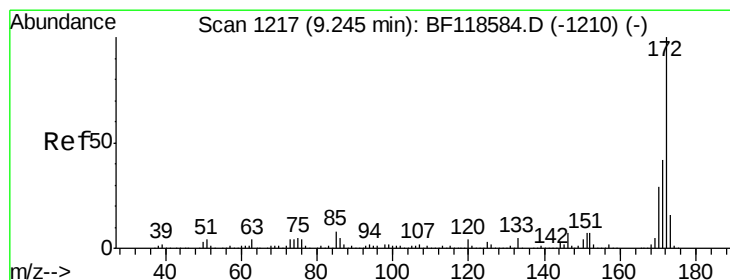
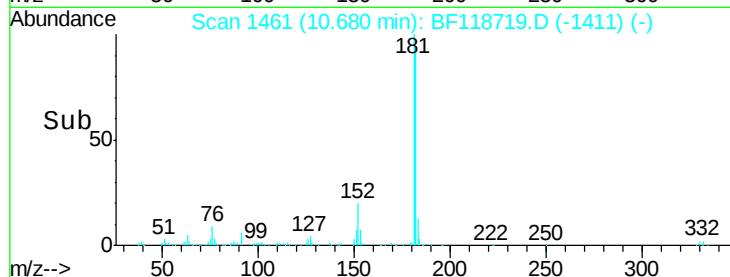
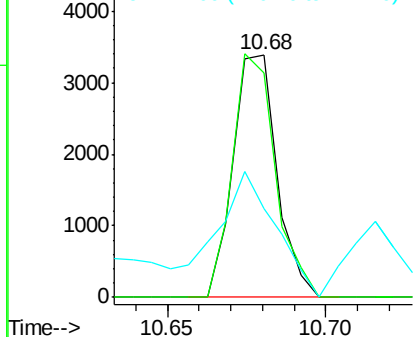
#42
 2,4,6-Tribromophenol
 Concen: 0.423 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 3241
 Ion Ratio Lower Upper
 330 100
 332 98.0 77.6 116.4
 141 71.2 22.2 33.2#

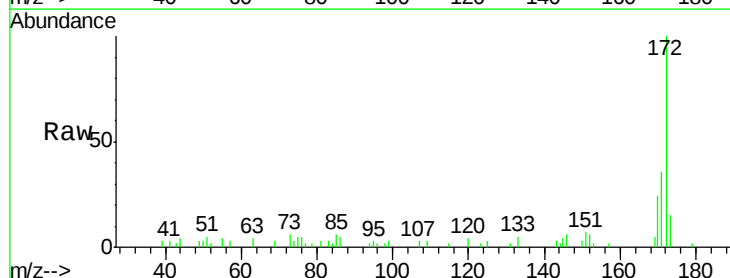


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

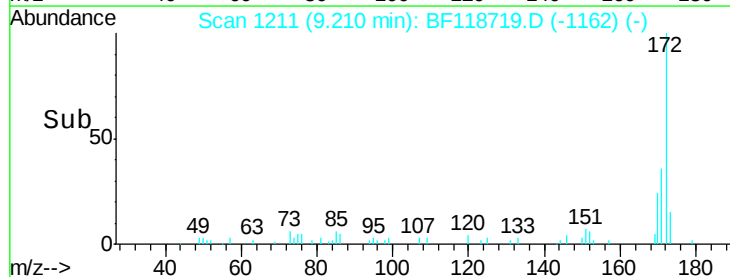
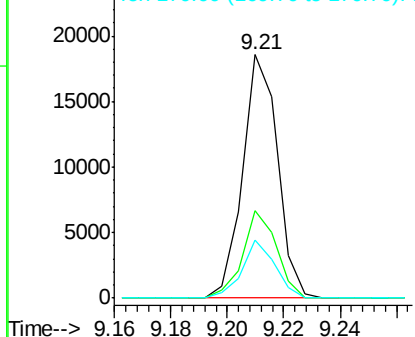


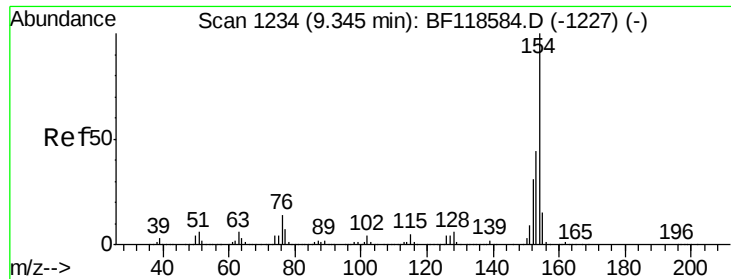
#45
 2-Fluorobiphenyl
 Concen: 0.394 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion:172 Resp: 15891
 Ion Ratio Lower Upper
 172 100
 171 35.8 31.0 46.4
 170 23.6 20.7 31.1



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

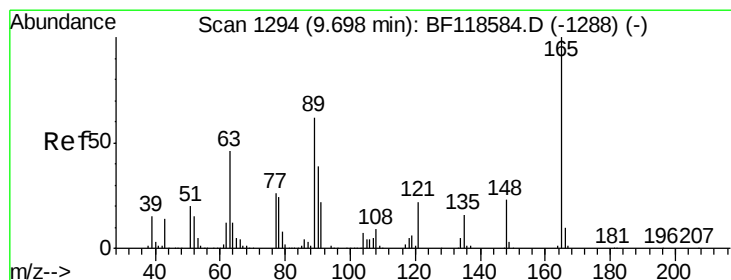
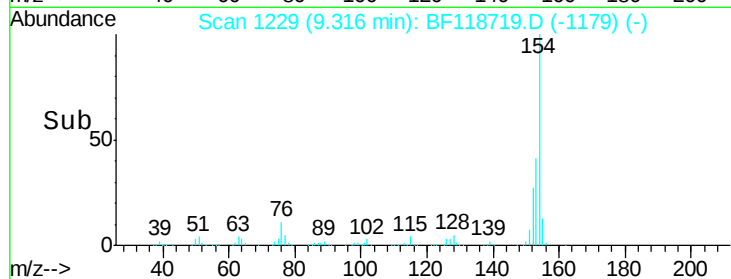
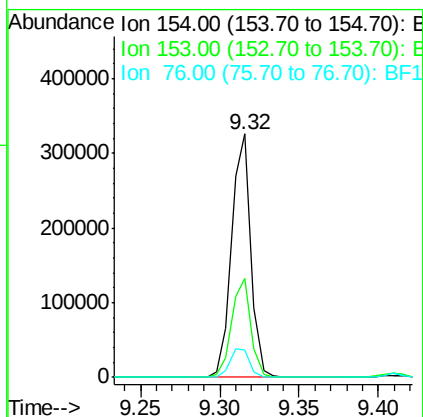
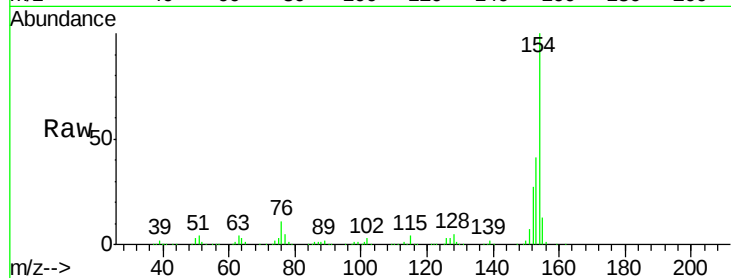




#46
 1,1'-Biphenyl
 Concen: 6.009 ng
 RT: 9.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

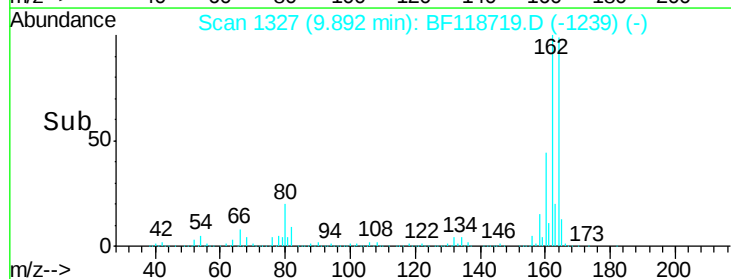
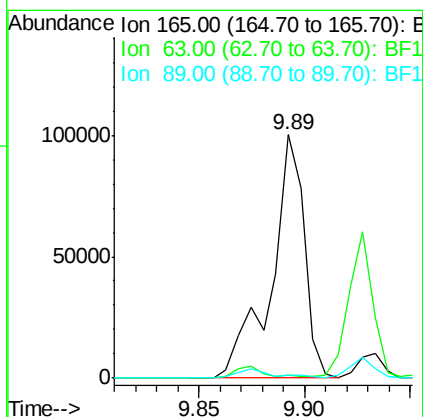
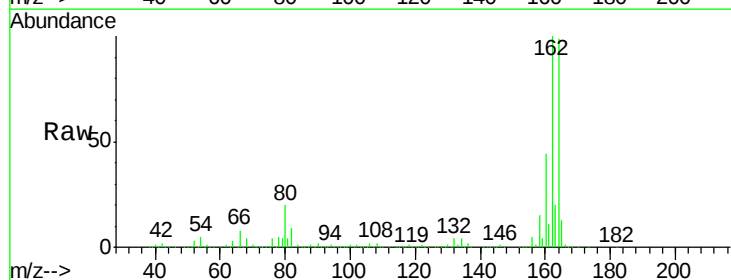
Instrument :
 BNA_F
 ClientSampleId :

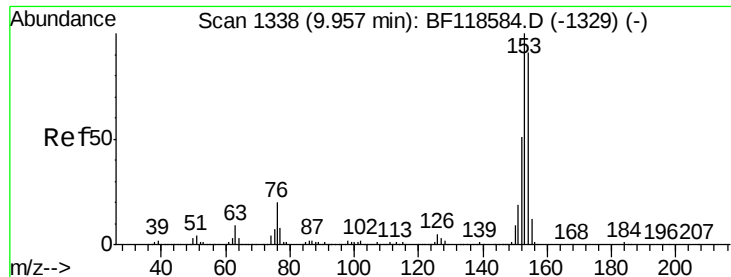
Tot Ion	Ratio	Lower	Upper
154	100		
153	40.7	22.3	62.3
76	11.4	0.0	32.0



#51
 2,6-Dinitrotoluene
 Concen: 11.267 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.22 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	39.8	59.6#
89	1.1	41.4	62.2#





#52

Acenaphthene

Concen: 17.841 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampleId :

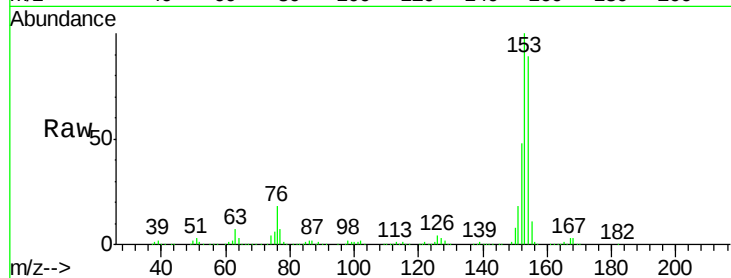
Tot Ion:154 Resp: 645806

Ion Ratio Lower Upper

154 100

153 112.5 89.1 133.7

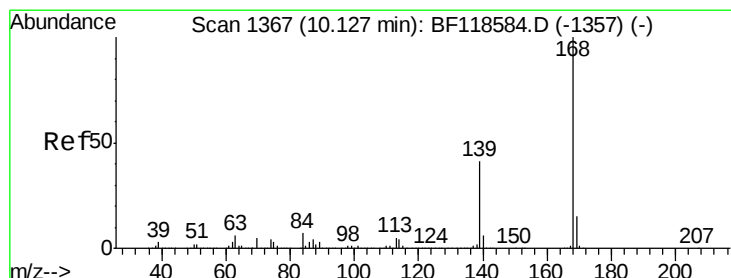
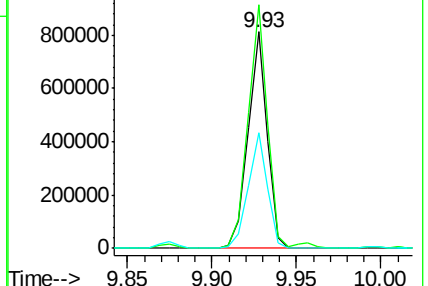
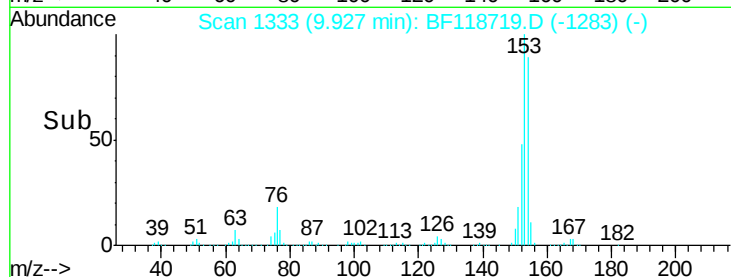
152 53.6 43.0 64.6



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: 22.982 ng

RT: 10.10 min Scan# 1362

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

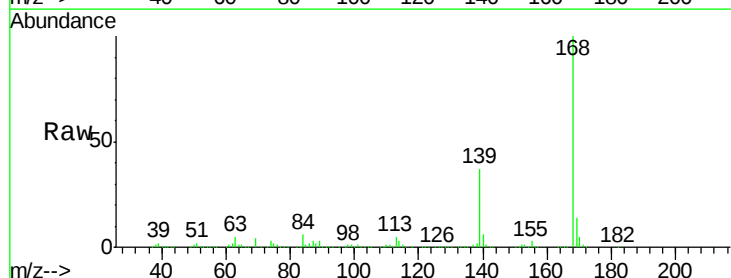
Tgt Ion:168 Resp: 1152864

Ion Ratio Lower Upper

168 100

139 37.4 31.6 47.4

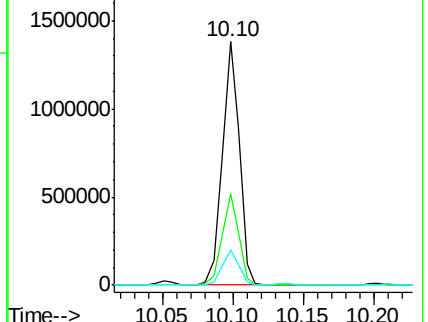
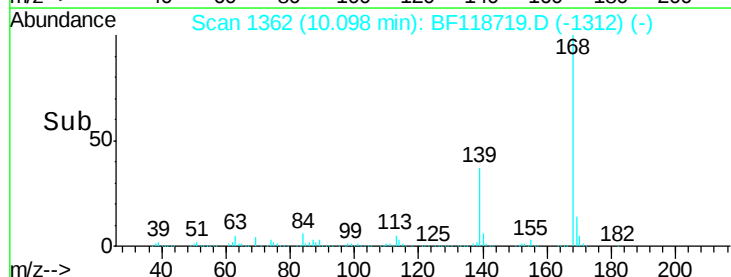
169 14.3 11.4 17.0

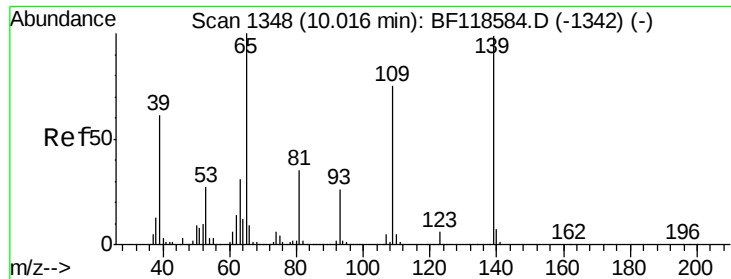


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

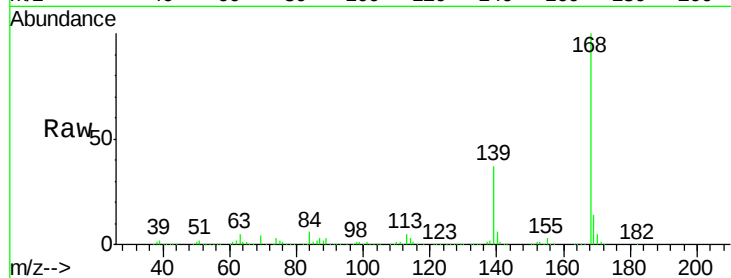




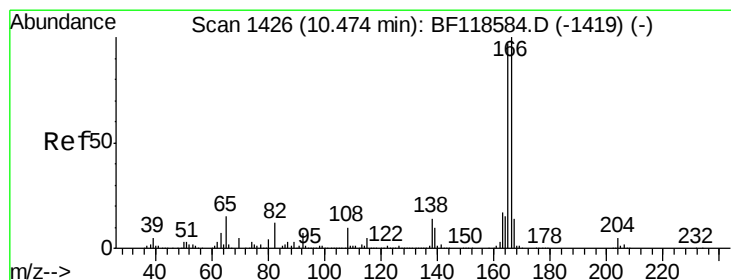
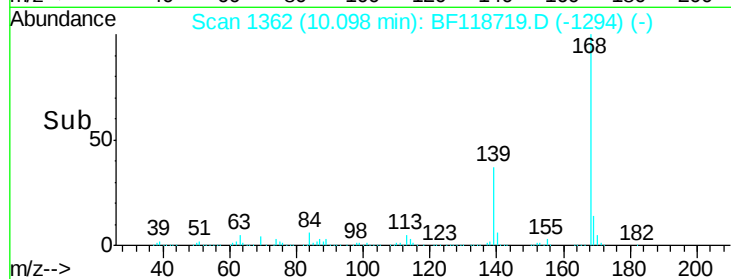
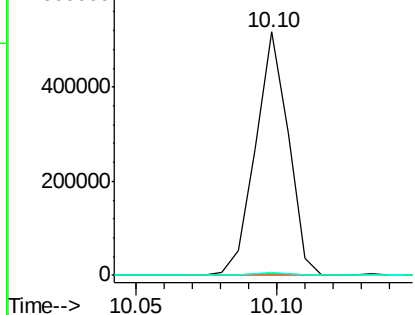
#56
4-Nitrophenol
Concen: 50.409 ng
RT: 10.10 min Scan# 1362
Delta R.T. 0.10 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 419935
Ion Ratio Lower Upper
139 100
109 0.8 47.0 87.0#
65 1.4 65.7 105.7#

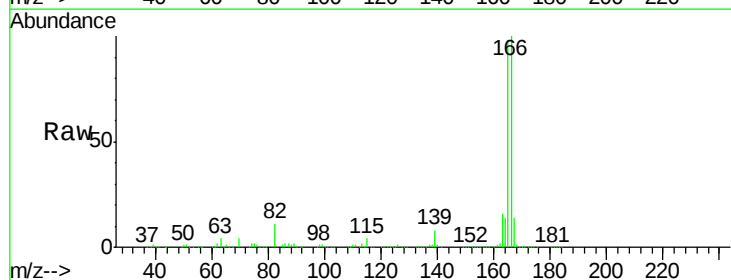


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

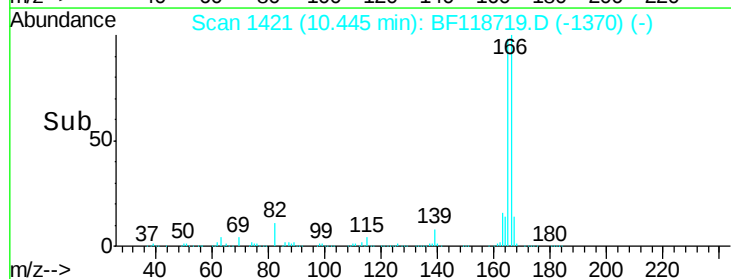
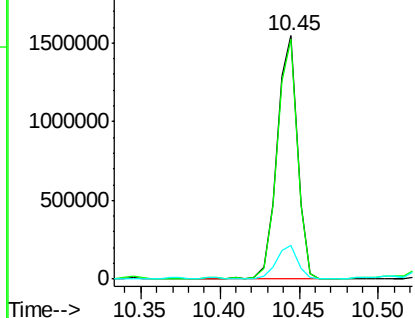


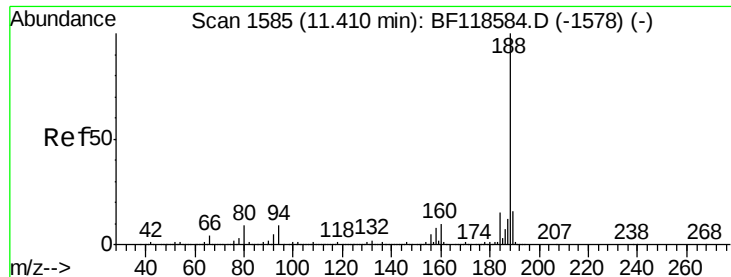
#58
Fluorene
Concen: 35.131 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Tgt Ion:166 Resp: 1383526
Ion Ratio Lower Upper
166 100
165 98.3 78.6 118.0
167 13.7 11.4 17.2



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: 11.38 min Scan# 1580

Delta R.T. -0.00 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampleId :

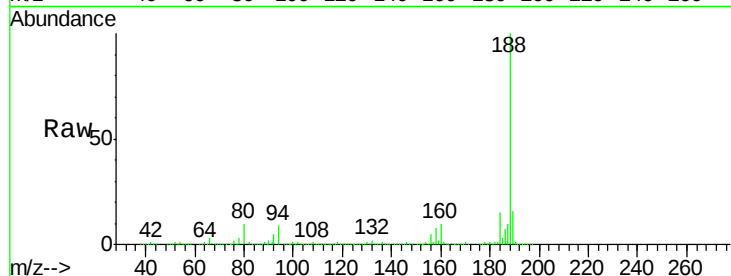
Tot Ion:188 Resp: 1192968

Ion Ratio Lower Upper

188 100

94 9.4 7.4 11.2

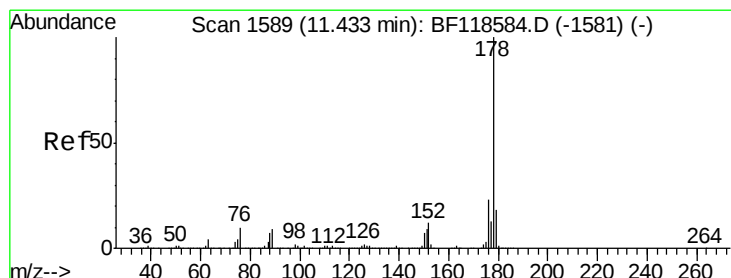
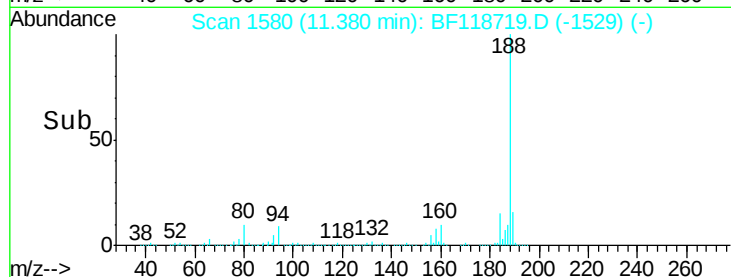
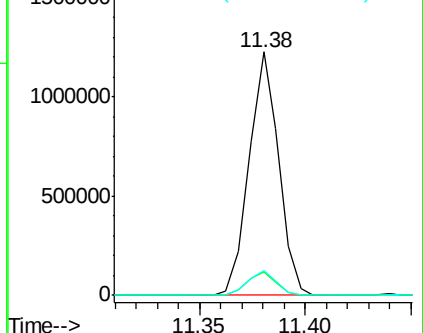
80 10.1 7.8 11.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 63.756 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

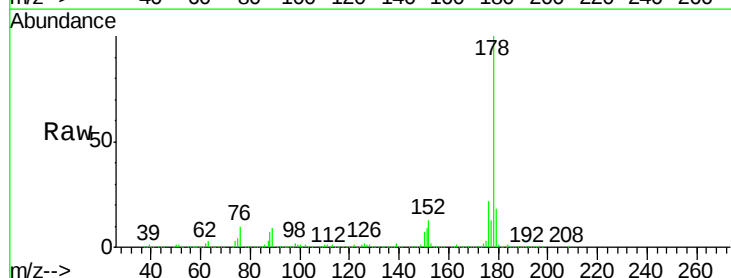
Tgt Ion:178 Resp: 3669405

Ion Ratio Lower Upper

178 100

176 22.1 16.5 24.7

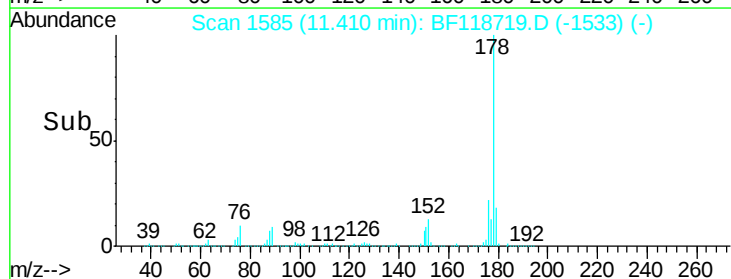
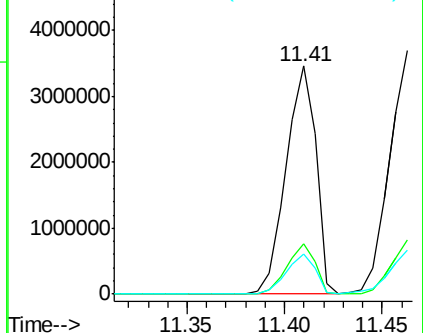
179 17.7 13.3 19.9

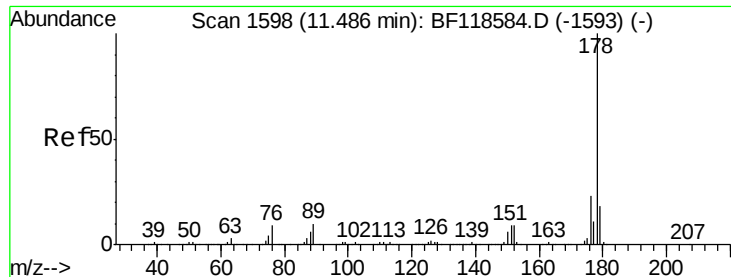


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

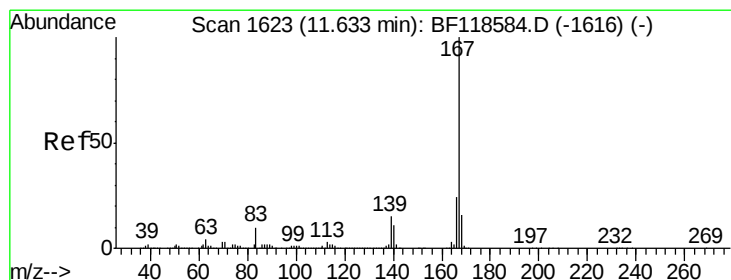
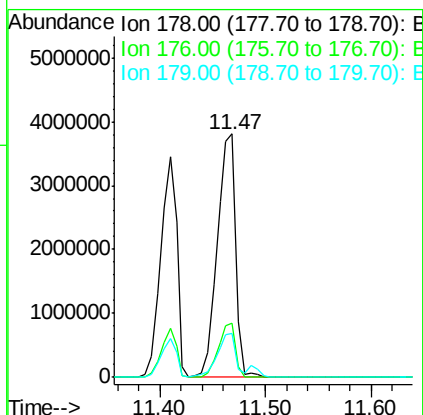
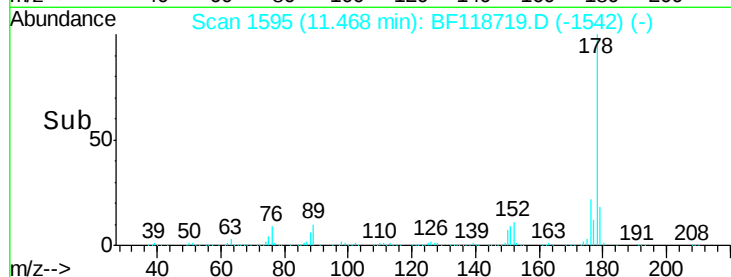
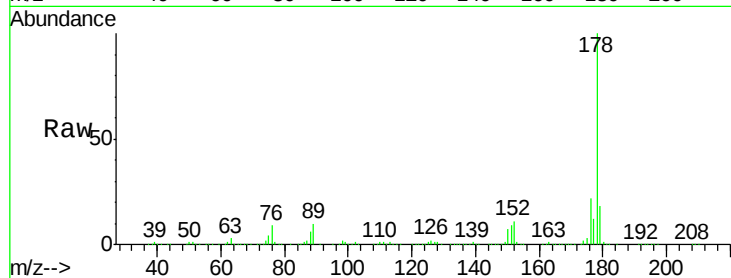




#72
 Anthracene
 Concen: 82.164 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. 0.01 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

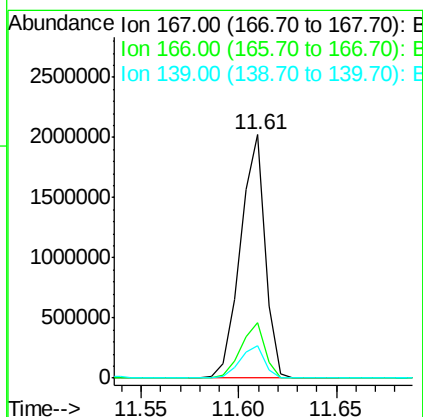
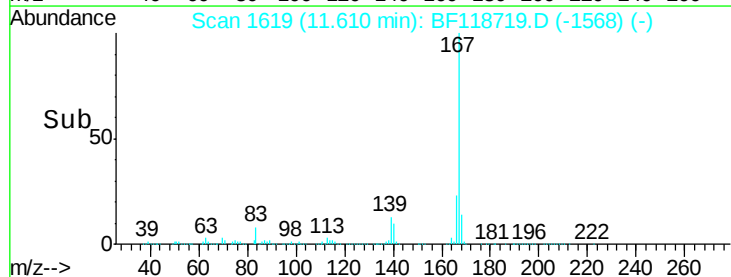
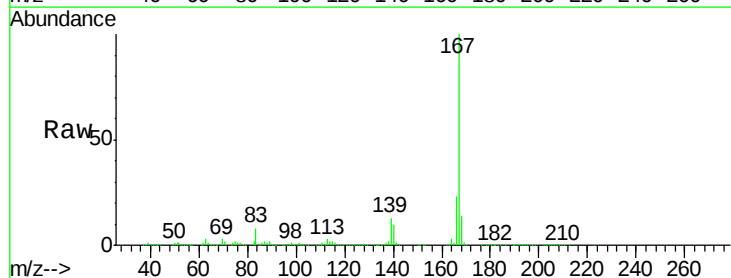
Instrument :
 BNA_F
 ClientSampleId :

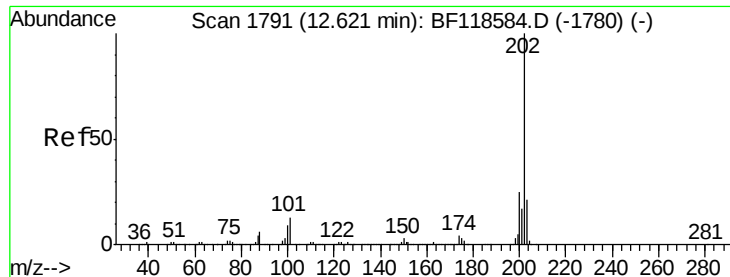
Tot Ion:178 Resp: 4679154
 Ion Ratio Lower Upper
 178 100
 176 22.1 15.8 23.8
 179 18.1 13.3 19.9



#73
 Carbazole
 Concen: 33.982 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Tgt Ion:167 Resp: 1775089
 Ion Ratio Lower Upper
 167 100
 166 22.8 18.3 27.5
 139 13.4 11.0 16.4





#75

Fluoranthene

Concen: 32.545 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.00 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampled :

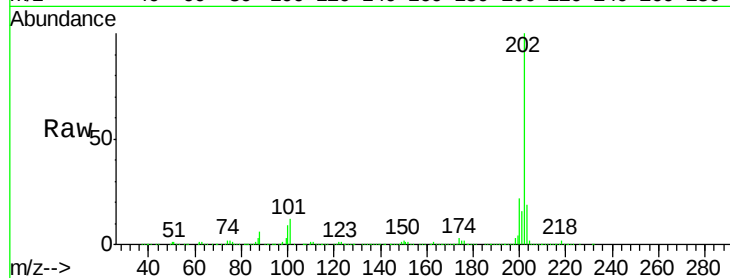
Tot Ion:202 Resp: 1975544

Ion Ratio Lower Upper

202 100

101 11.9 0.0 32.1

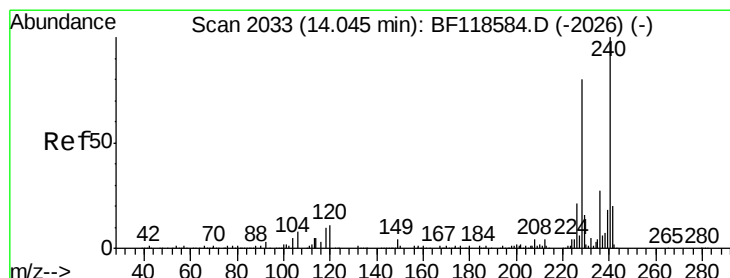
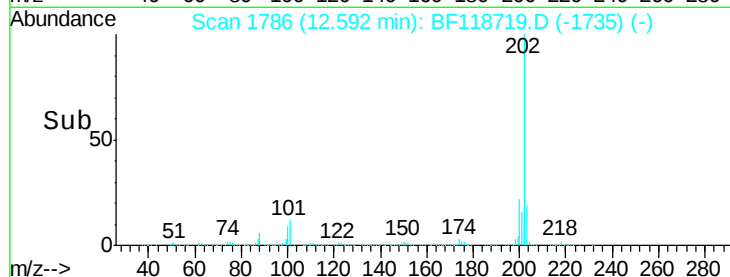
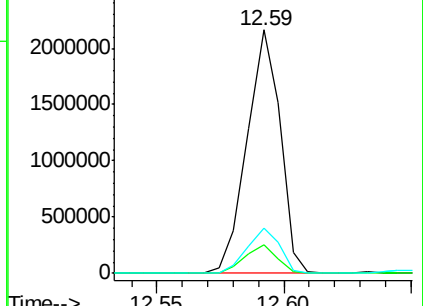
203 18.8 0.0 38.9



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: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

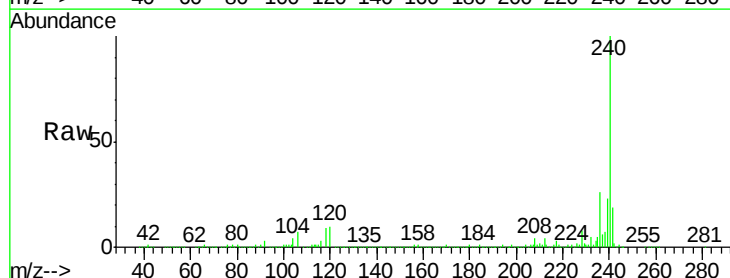
Tgt Ion:240 Resp: 802618

Ion Ratio Lower Upper

240 100

120 9.6 7.6 11.4

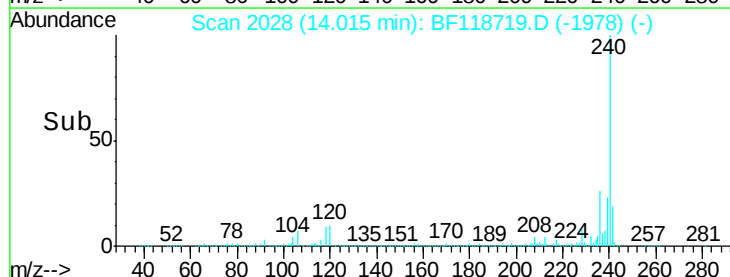
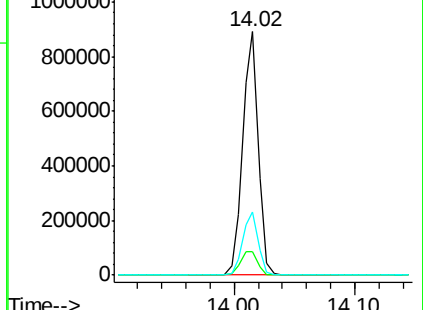
236 25.7 21.0 31.4

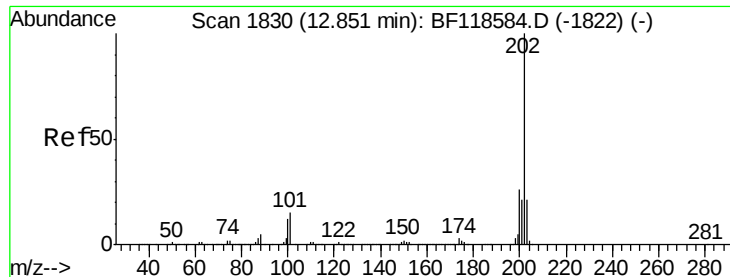


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 26.214 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.00 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

Instrument :

BNA_F

ClientSampleId :

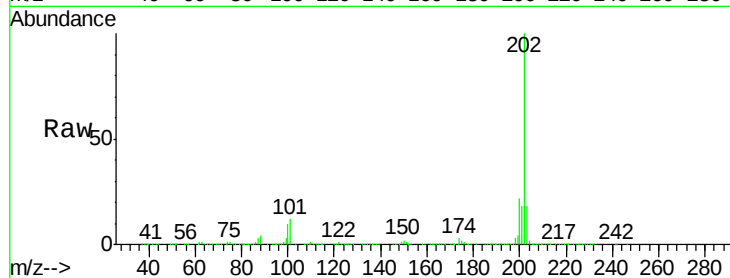
Tot Ion:202 Resp: 1428409

Ion Ratio Lower Upper

202 100

200 21.6 18.1 27.1

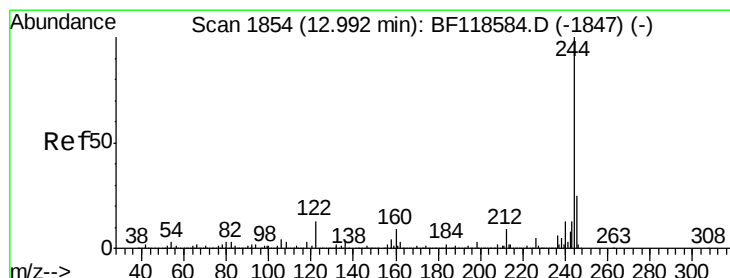
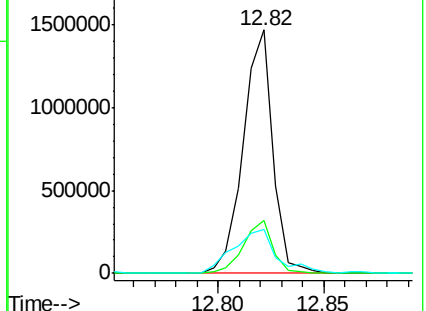
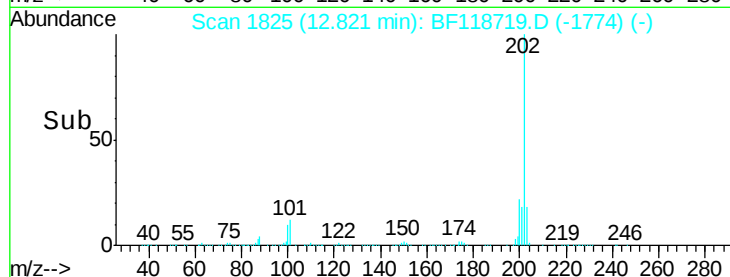
203 18.2 15.2 22.8



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: 0.546 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF118719.D

Acq: 27 Jan 2020 14:36

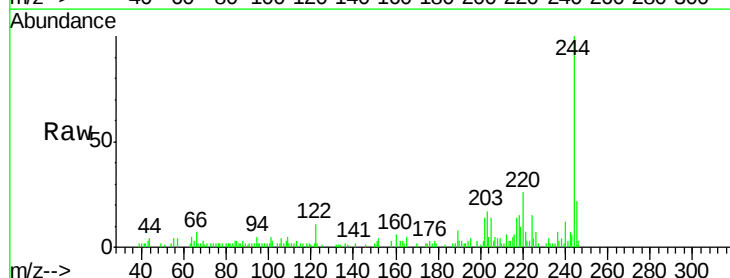
Tgt Ion:244 Resp: 20076

Ion Ratio Lower Upper

244 100

212 5.5 6.3 9.5#

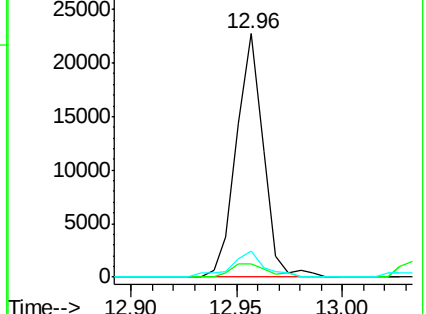
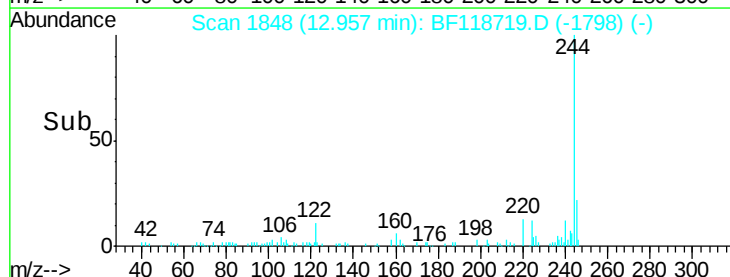
122 10.8 9.2 13.8

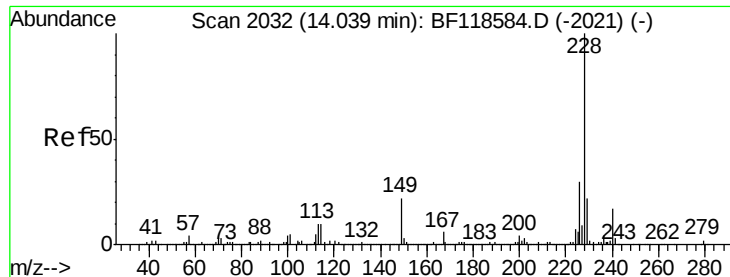


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

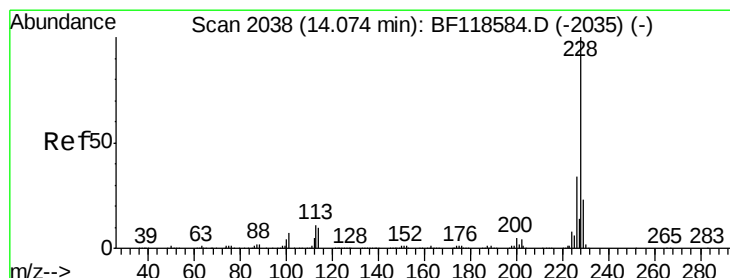
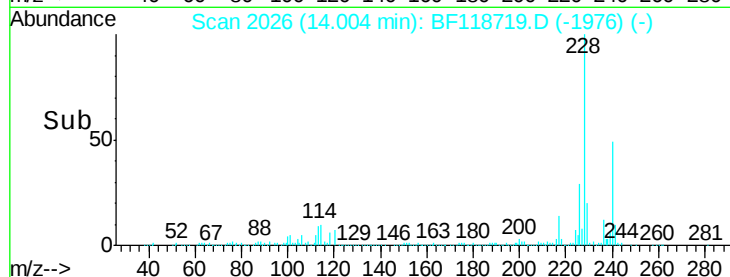
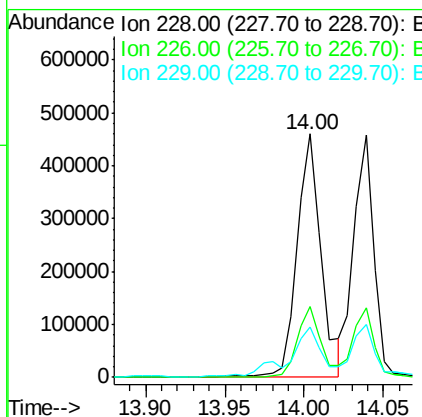
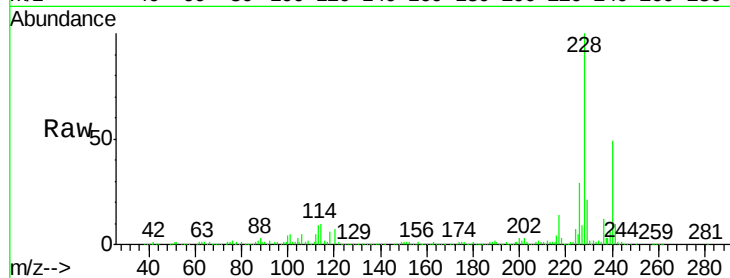




#81
Benzo(a)anthracene
Concen: 9.978 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

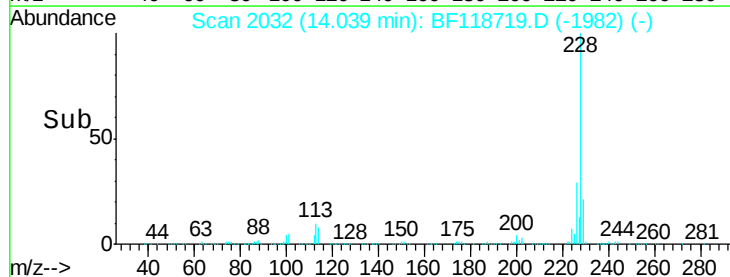
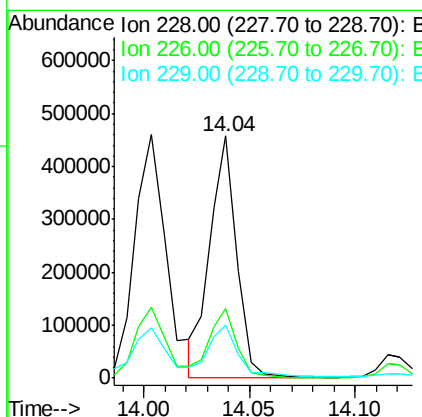
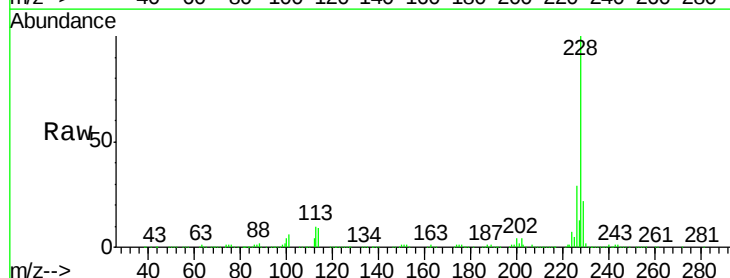
Instrument :
BNA_F
ClientSampleId :

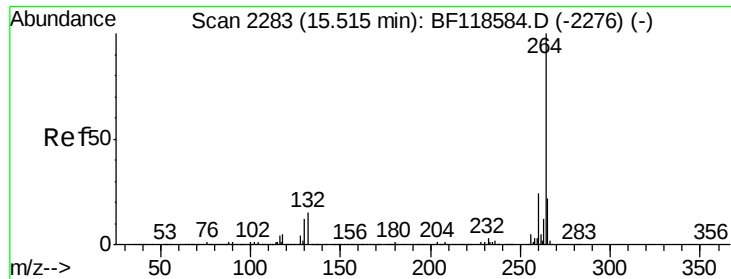
Tot Ion:228 Resp: 481739
Ion Ratio Lower Upper
228 100
226 28.8 22.6 34.0
229 20.6 16.6 25.0



#83
Chrysene
Concen: 8.674 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Tgt Ion:228 Resp: 401362
Ion Ratio Lower Upper
228 100
226 29.0 25.6 38.4
229 21.9 17.1 25.7



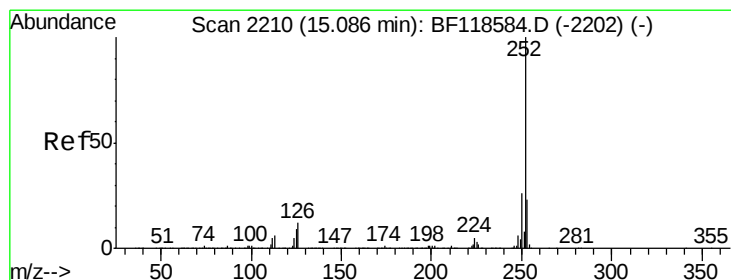
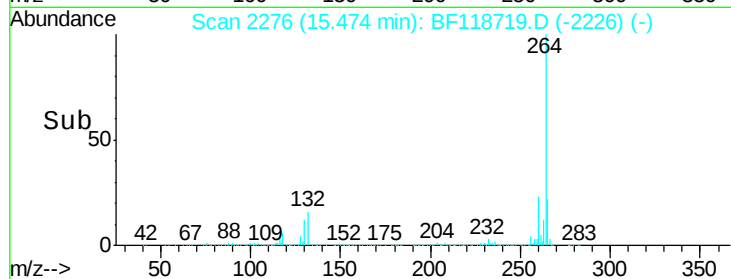
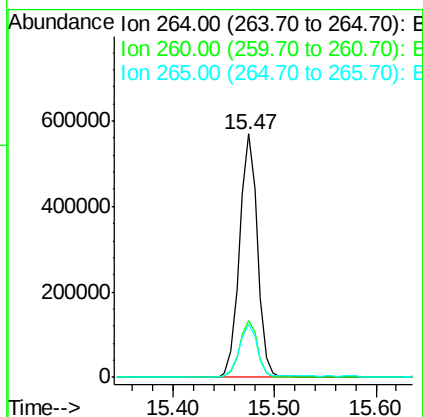
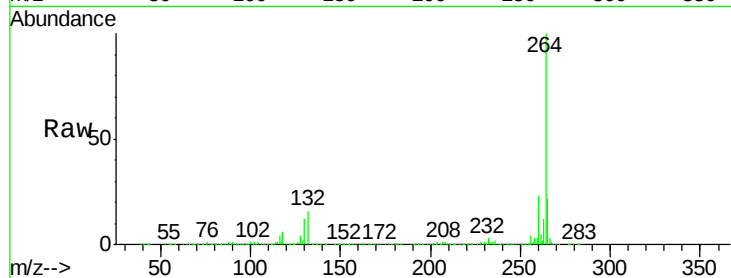


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. -0.01 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 698790

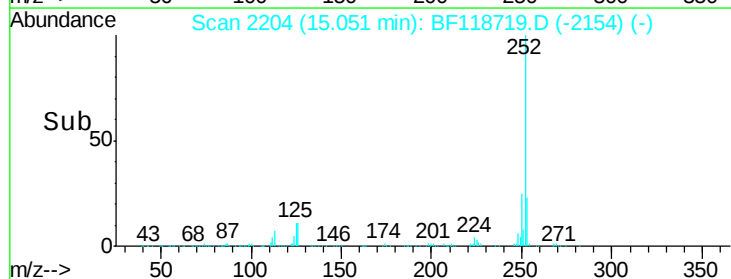
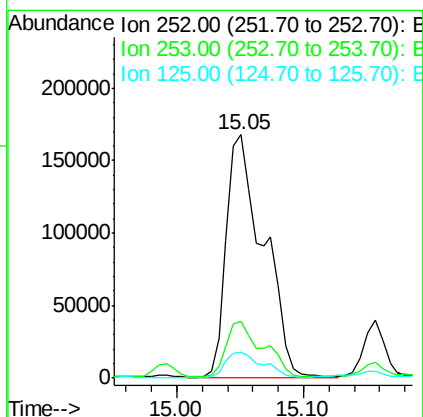
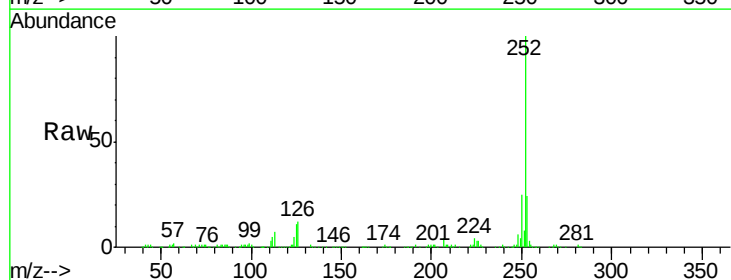
Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	22.0	17.0	25.6

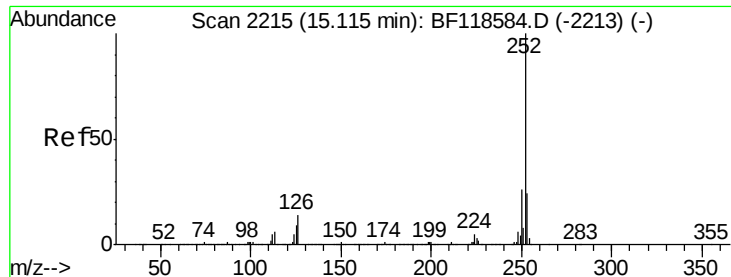


#88
Benzo(b)fluoranthene
Concen: 7.746 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.01 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Tgt Ion:252 Resp: 340229

Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.4
125	10.9	7.7	11.5

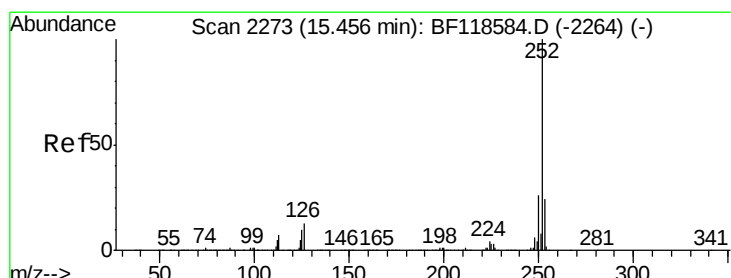
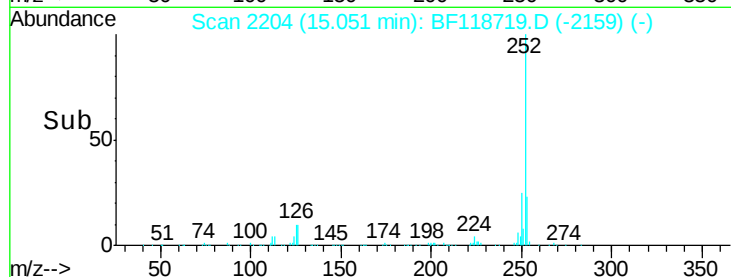
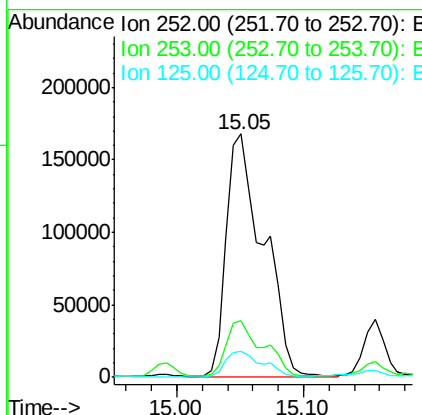
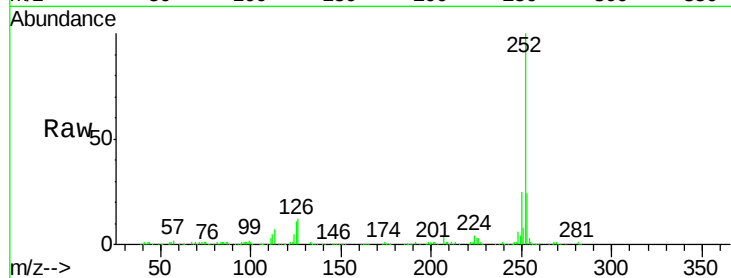




#89
Benzo(k)fluoranthene
Concen: 8.361 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.04 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

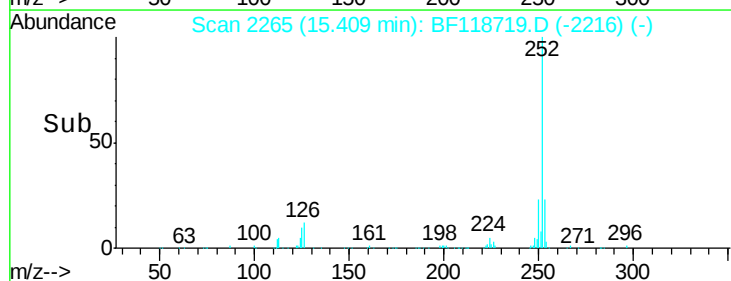
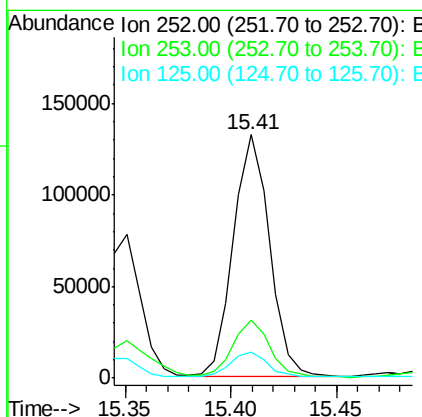
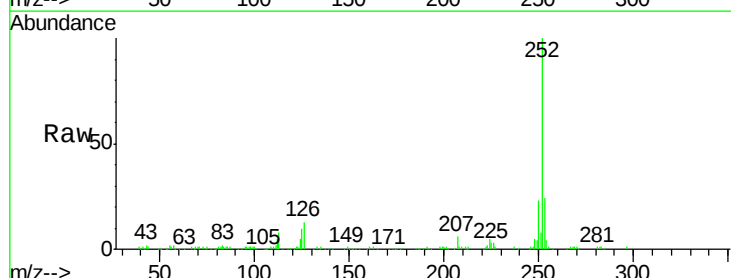
Instrument :
BNA_F
ClientSampleId :

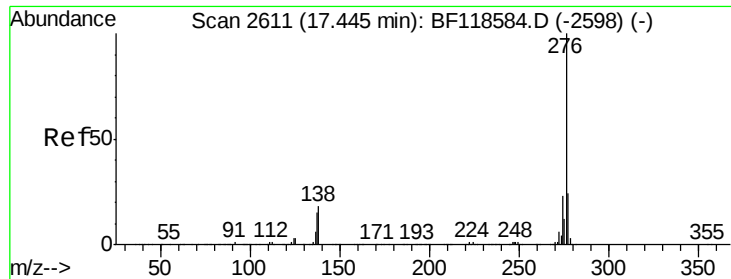
Tot Ion:252 Resp: 340229
Ion Ratio Lower Upper
252 100
253 23.6 18.4 27.6
125 10.9 8.1 12.1



#90
Benzo(a)pyrene
Concen: 4.168 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF118719.D
Acq: 27 Jan 2020 14:36

Tgt Ion:252 Resp: 157945
Ion Ratio Lower Upper
252 100
253 23.6 18.2 27.4
125 10.5 8.3 12.5

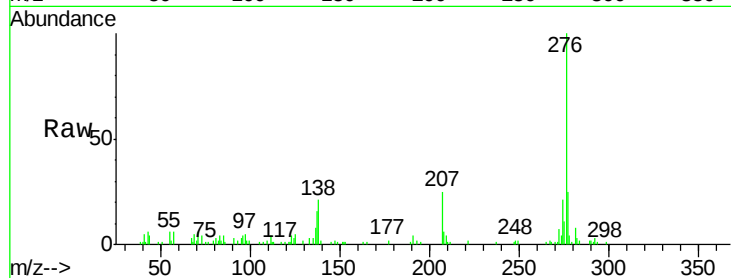




#92
 Benzo(a,h,i)perylene
 Concen: 2.008 ng
 RT: 17.37 min Scan# 2598
 Delta R.T. -0.02 min
 Lab File: BF118719.D
 Acq: 27 Jan 2020 14:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.0	28.6
138	20.6	15.4	23.2



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

