

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF040620\
 Data File : BF119822.D
 Acq On : 7 Apr 2020 15:15
 Operator : MA/SJ
 Sample : L2129-36DL 20X
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Quant Time: Apr 07 15:47:39 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 06 11:15:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	149764	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	571108	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	215316	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	400940	20.00	ng	0.00
76) Chrysene-d12	13.97	240	286724	20.00	ng	0.01
87) Perylene-d12	15.42	264	179674	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	73592	7.82	ng	0.00
7) Phenol-d6	6.41	99	111936	9.31	ng	0.00
23) Nitrobenzene-d5	7.35	82	63199	6.01	ng	0.00
42) 2,4,6-Tribromophenol	10.62	330	19205	8.65	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	96212	6.62	ng	0.00
79) Terphenyl-d14	12.91	244	100110	6.84	ng	0.00

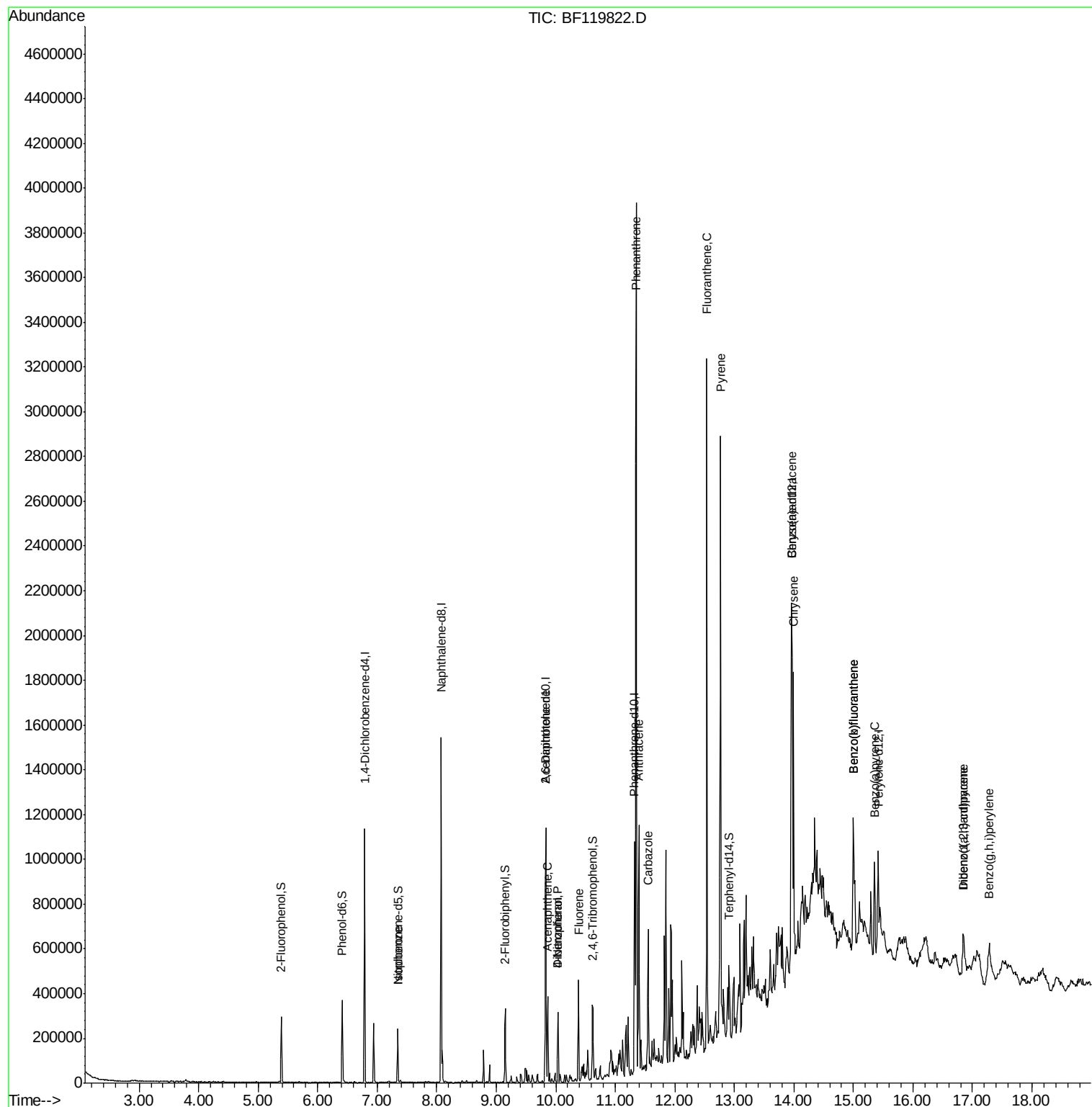
Target Compounds				Qvalue		
25) Isophorone	7.35	82	63198	2.965	ng	# 65
51) 2,6-Dinitrotoluene	9.83	165	28780	8.779	ng	# 27
52) Acenaphthene	9.86	154	74484	5.539	ng	99
55) Dibenzofuran	10.04	168	110533	5.733	ng	95
56) 4-Nitrophenol	10.03	139	39998	12.251	ng	# 6
58) Fluorene	10.38	166	107367	7.530	ng	100
71) Phenanthrene	11.35	178	1388513	66.788	ng	99
72) Anthracene	11.40	178	391110	18.510	ng	97
73) Carbazole	11.55	167	208814	9.984	ng	99
75) Fluoranthene	12.54	202	1263352	56.150	ng	98
78) Pyrene	12.77	202	1103190	46.882	ng	98
81) Benzo(a)anthracene	13.96	228	562794	30.184	ng	99
83) Chrysene	13.99	228	482742	25.087	ng	96
86) Indeno(1,2,3-cd)pyrene	16.84	276	99661	5.499	ng	# 94
88) Benzo(b)fluoranthene	15.00	252	447318	37.270	ng	95
89) Benzo(k)fluoranthene	15.00	252	447318	39.140	ng	96
90) Benzo(a)pyrene	15.36	252	224480	20.580	ng	99
91) Dibenzo(a,h)anthracene	16.86	278	31672	3.320	ng	# 78
92) Benzo(a,h,i)perylene	17.28	276	88192	9.202	ng	95

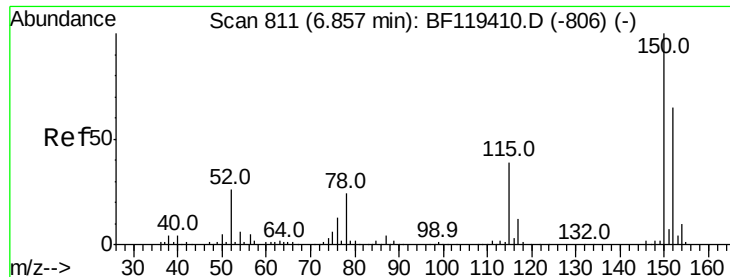
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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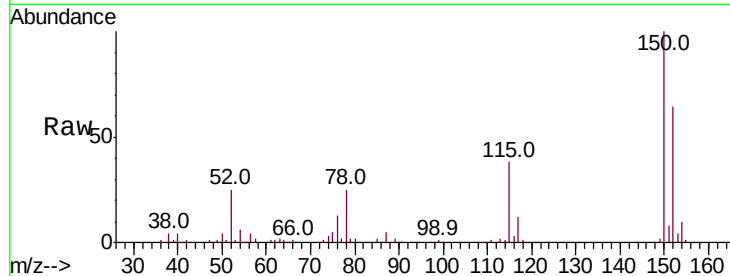


#1

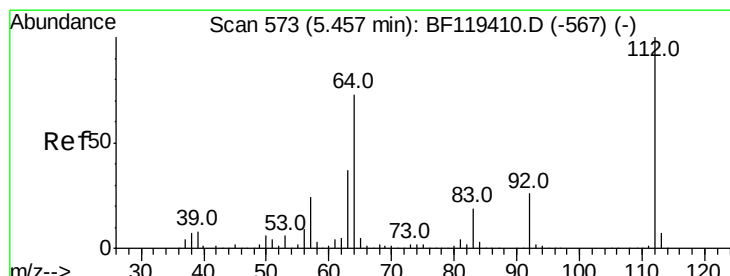
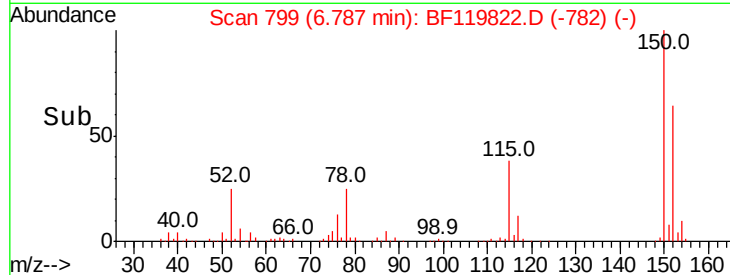
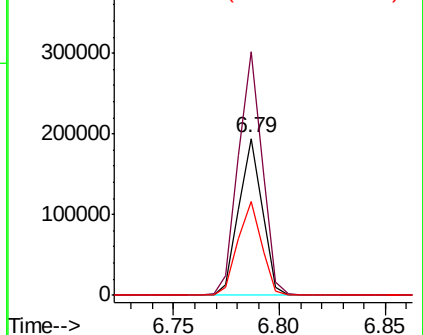
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. 0.00 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Instrument :
BNA_F
ClientSampleId :
TP-6DL

Tot Ion:152 Resp: 149764
Ion Ratio Lower Upper
152 100
150 155.3 124.5 186.7
115 59.6 49.6 74.4



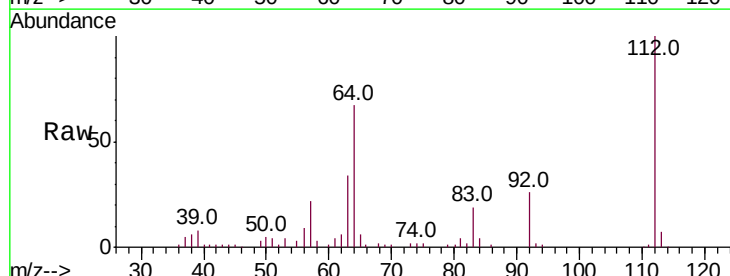
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



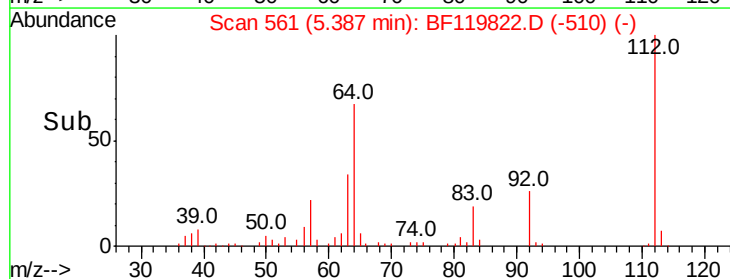
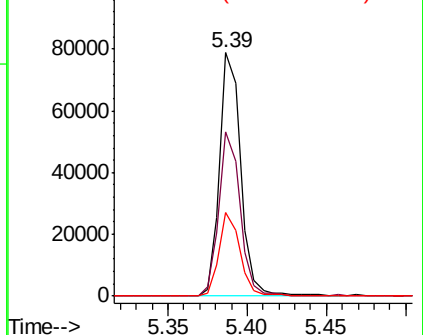
#5

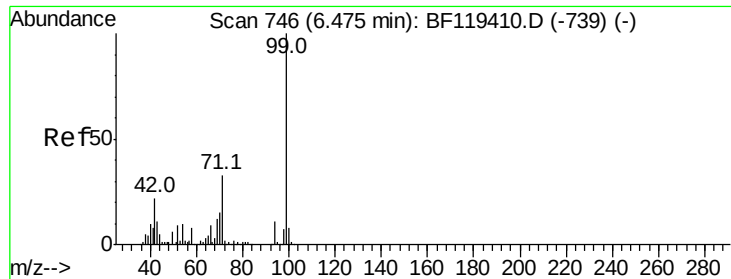
2-Fluorophenol
Concen: 7.822 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.00 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Tgt Ion:112 Resp: 73592
Ion Ratio Lower Upper
112 100
64 67.4 56.7 85.1
63 34.2 29.5 44.3



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: 9.314 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

BNA_F

ClientSampleId :

TP-6DL

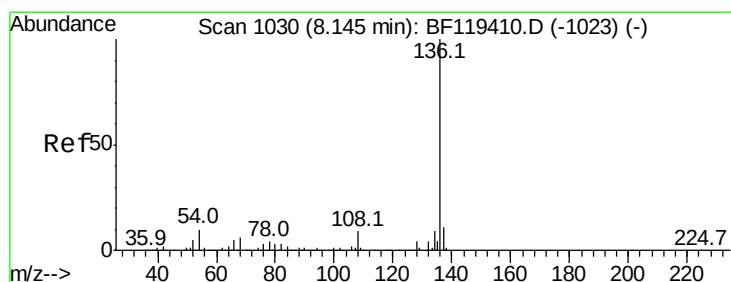
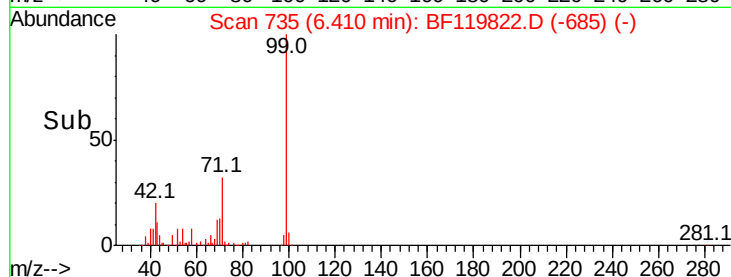
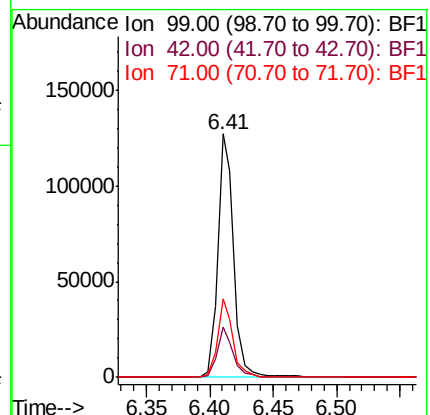
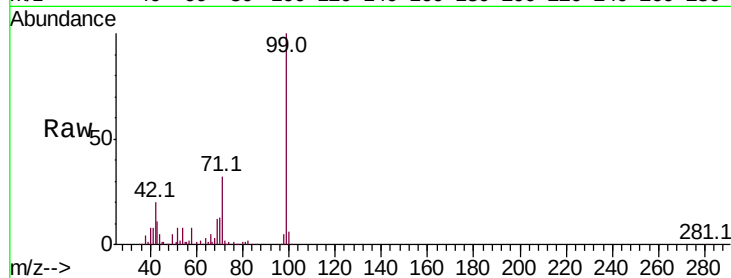
Tot Ion: 99 Resp: 111936

Ion Ratio Lower Upper

99 100

42 20.5 16.6 24.8

71 32.4 26.4 39.6



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Tgt Ion: 136 Resp: 571108

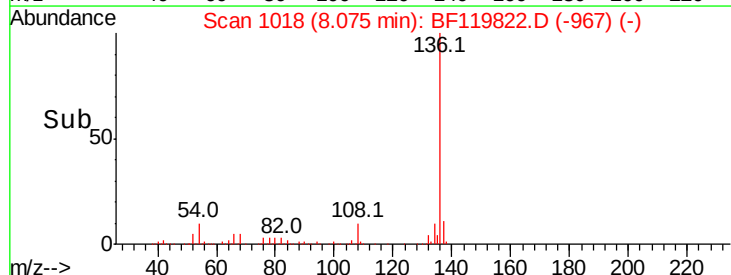
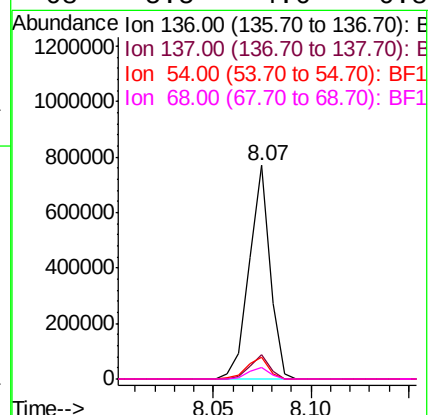
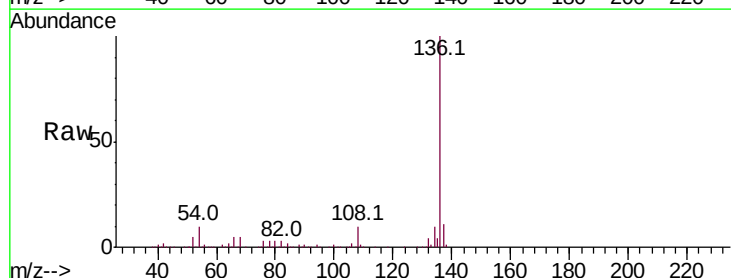
Ion Ratio Lower Upper

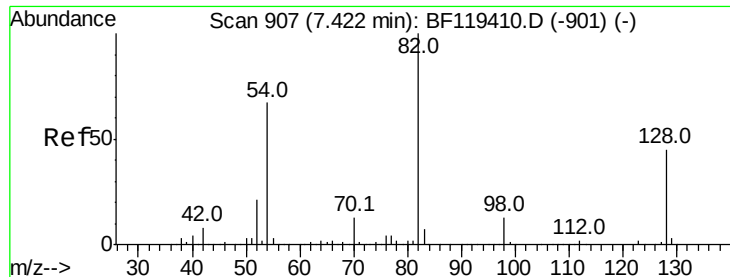
136 100

137 11.4 8.7 13.1

54 10.0 9.1 13.7

68 5.5 4.6 6.8

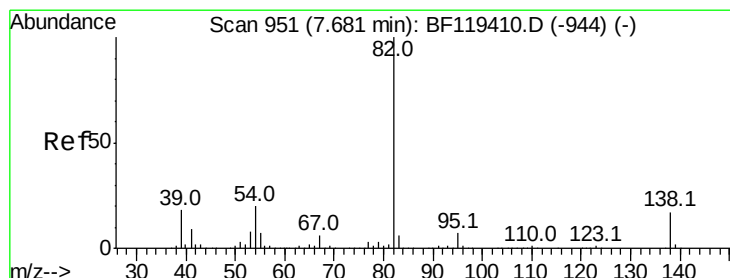
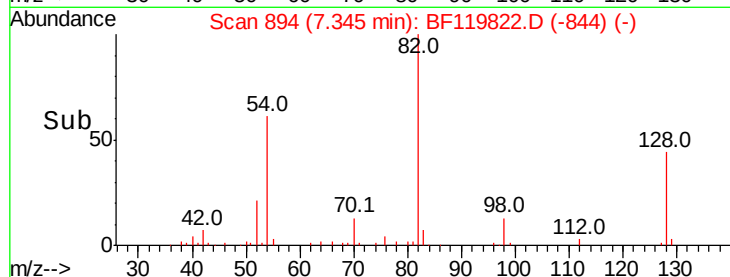
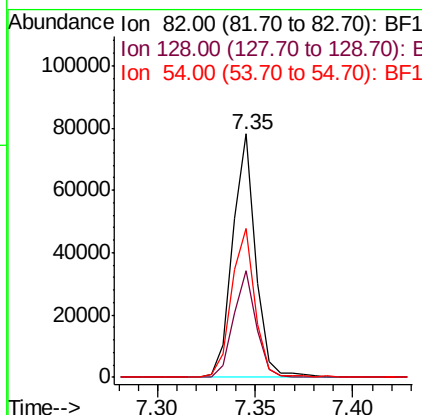
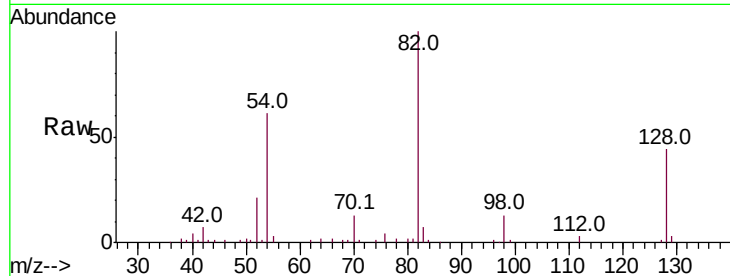




#23
 Nitrobenzene-d5
 Concen: 6.014 ng
 RT: 7.35 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

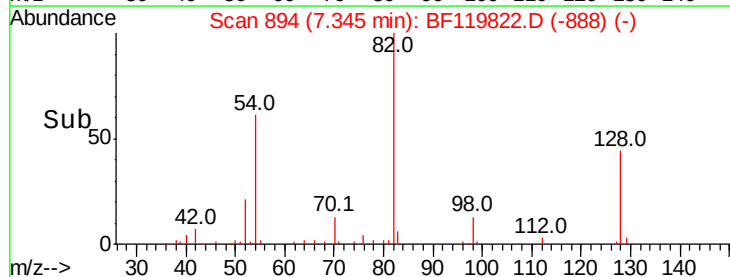
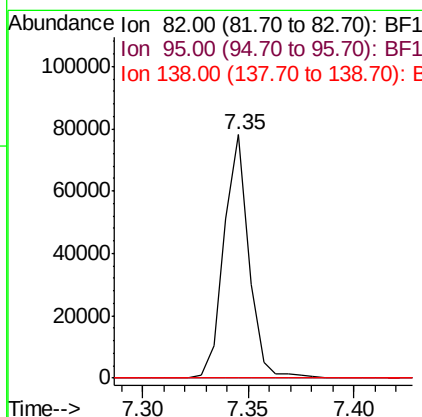
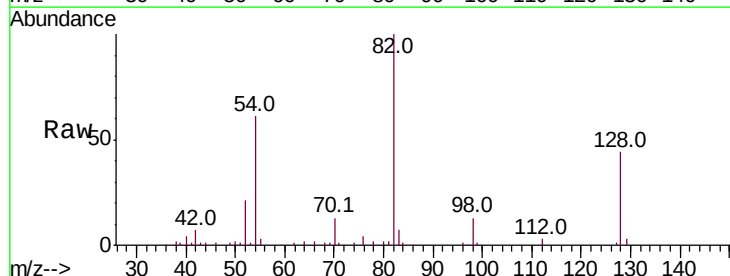
Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

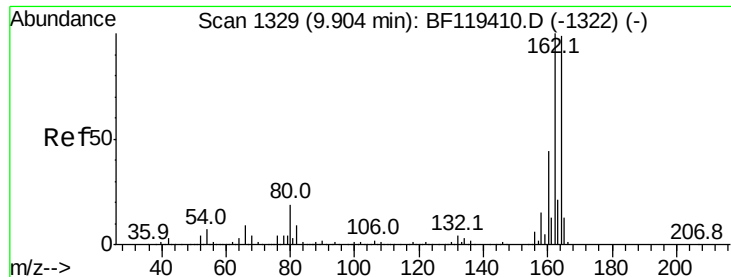
Tot Ion:	82	Resp:	63199
Ion	Ratio	Lower	Upper
82	100		
128	44.0	36.3	54.5
54	61.4	50.6	75.8



#25
 Isophorone
 Concen: 2.965 ng
 RT: 7.35 min Scan# 894
 Delta R.T. -0.26 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Tgt Ion:	82	Resp:	63198
Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.6#
138	0.0	14.6	21.8#

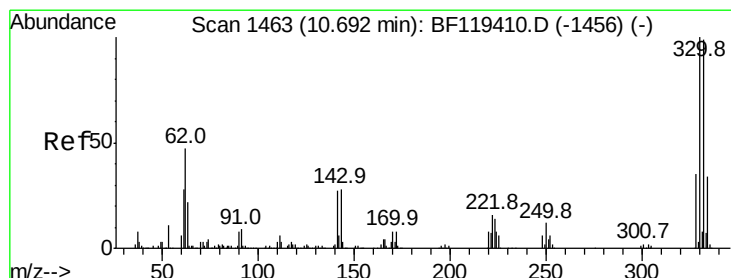
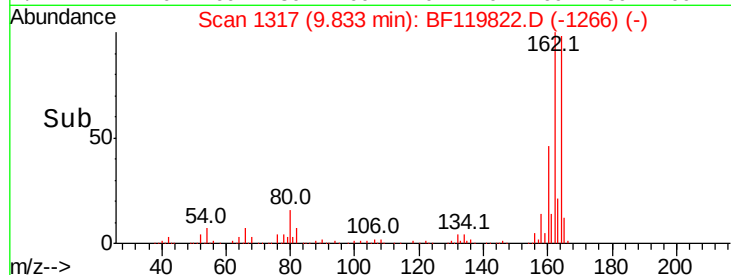
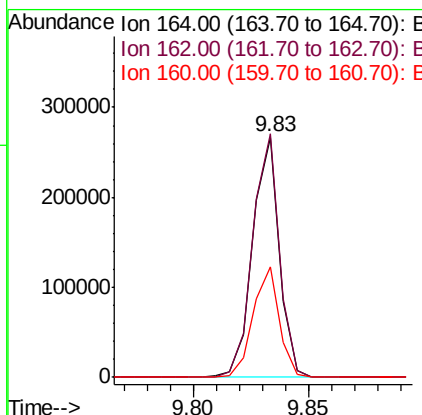
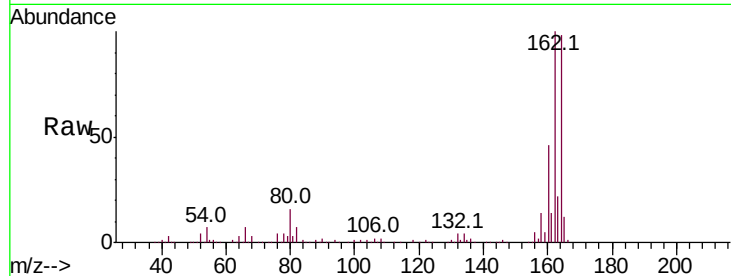




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

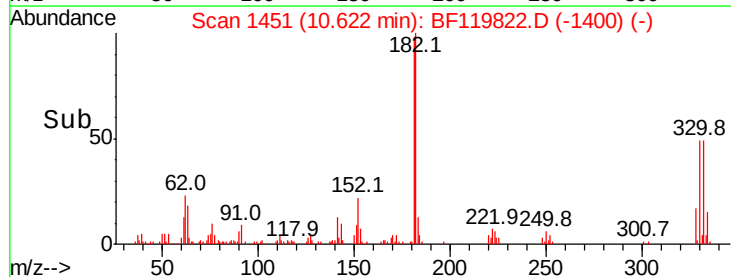
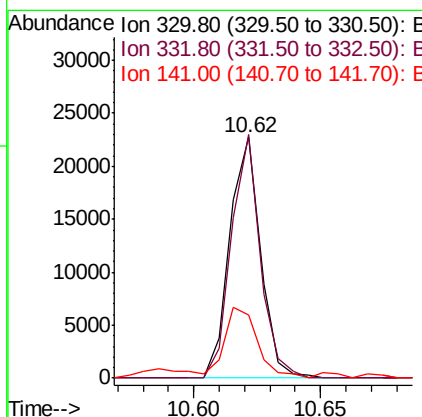
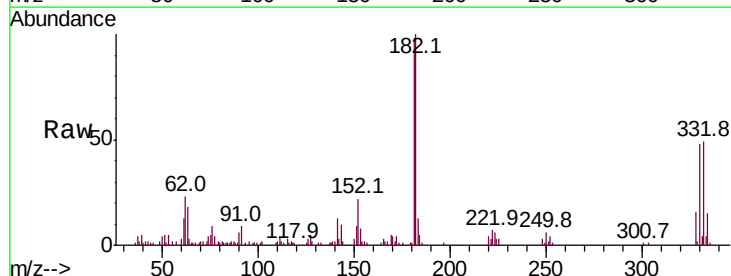
Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

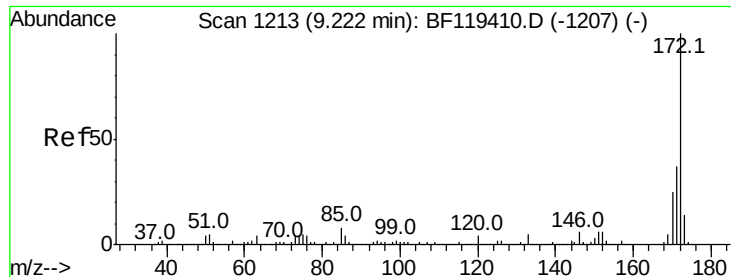
Tot Ion:164 Resp: 215316
 Ion Ratio Lower Upper
 164 100
 162 101.5 80.6 121.0
 160 46.2 35.7 53.5



#42
 2,4,6-Tribromophenol
 Concen: 8.646 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. 0.00 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Tgt Ion:330 Resp: 19205
 Ion Ratio Lower Upper
 330 100
 332 94.3 75.7 113.5
 141 31.5 25.4 38.0

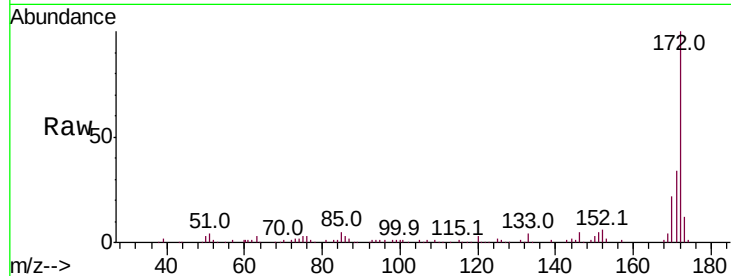




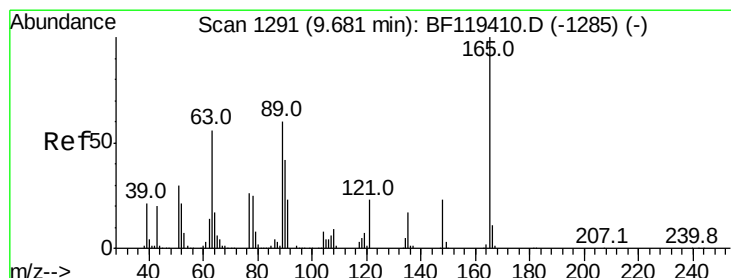
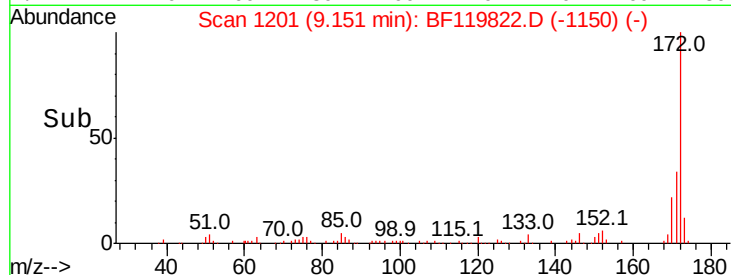
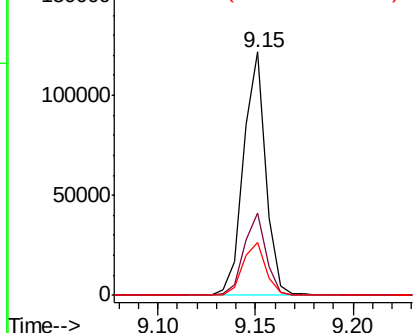
#45
 2-Fluorobiphenyl
 Concen: 6.620 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Tot Ion:172 Resp: 96212
 Ion Ratio Lower Upper
 172 100
 171 33.6 29.6 44.4
 170 21.6 20.2 30.2

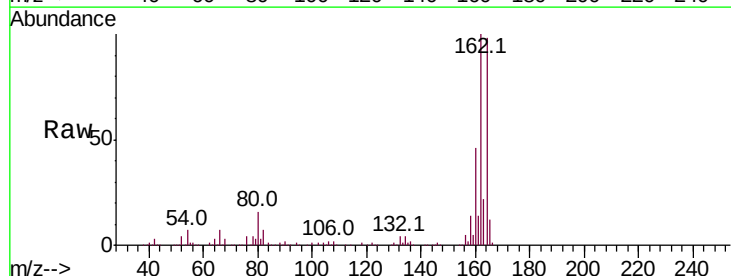


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

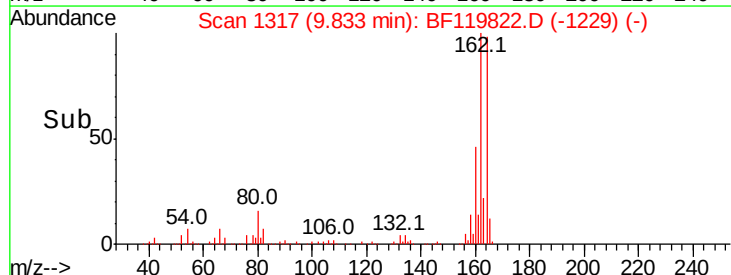
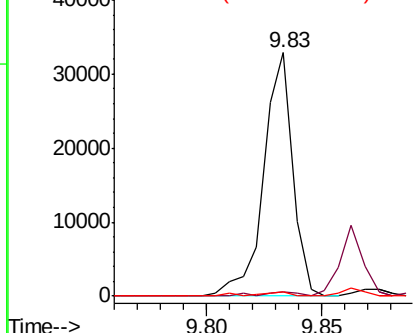


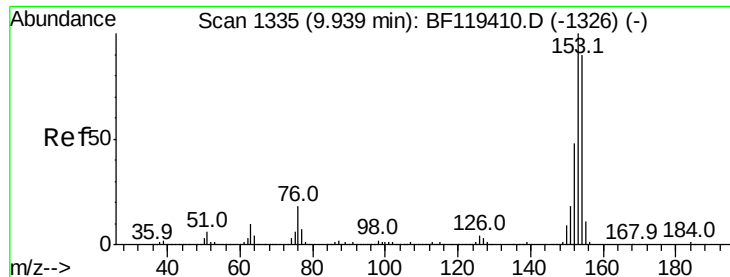
#51
 2,6-Dinitrotoluene
 Concen: 8.779 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.22 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Tgt Ion:165 Resp: 28780
 Ion Ratio Lower Upper
 165 100
 63 1.8 45.0 67.4#
 89 1.5 41.5 62.3#



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





#52

Acenaphthene

Concen: 5.539 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.00 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

BNA_F

ClientSampleId :

TP-6DL

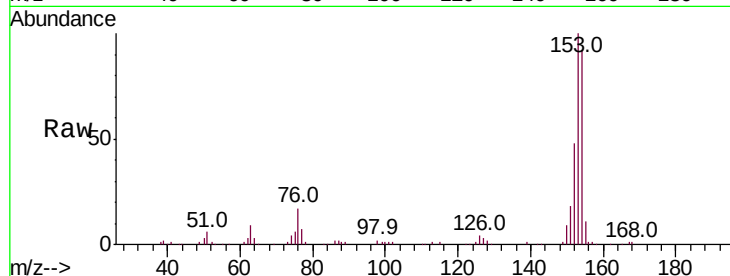
Tot Ion:154 Resp: 74484

Ion Ratio Lower Upper

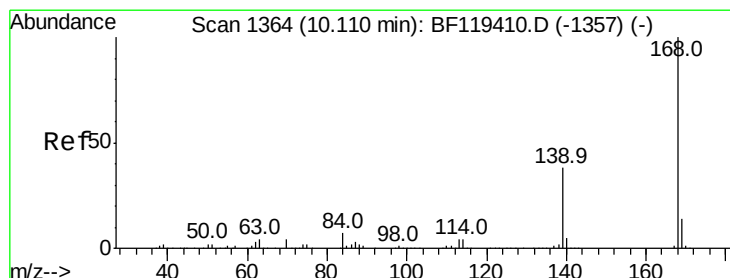
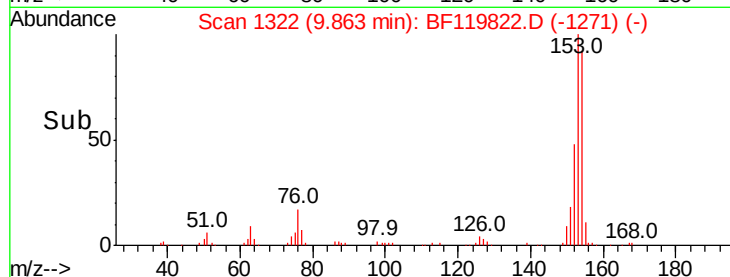
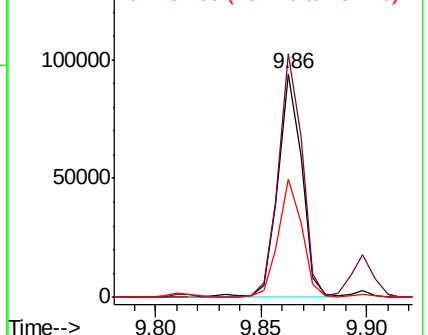
154 100

153 108.9 88.1 132.1

152 52.6 43.0 64.4



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



#55

Dibenzofuran

Concen: 5.733 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.00 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

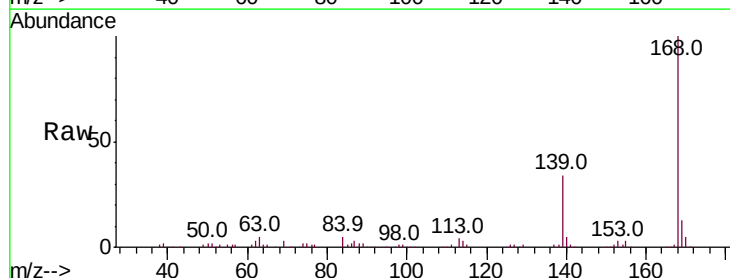
Tgt Ion:168 Resp: 110533

Ion Ratio Lower Upper

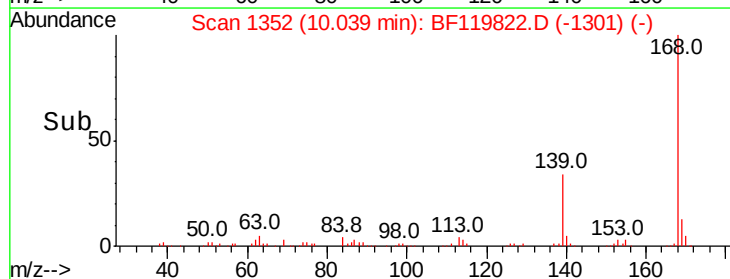
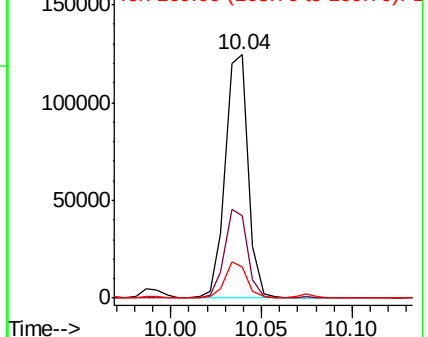
168 100

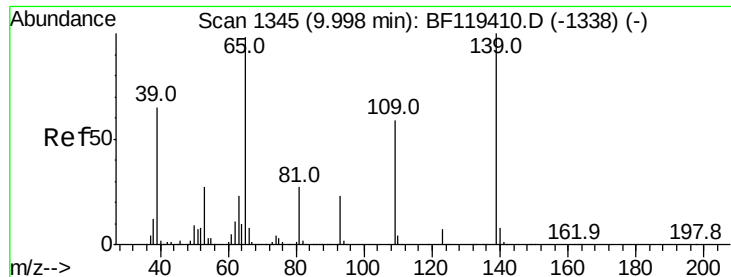
139 33.7 30.1 45.1

169 13.0 11.0 16.6



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: 12.251 ng

RT: 10.03 min Scan# 1351

Delta R.T. 0.09 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

BNA_F

ClientSampleId :

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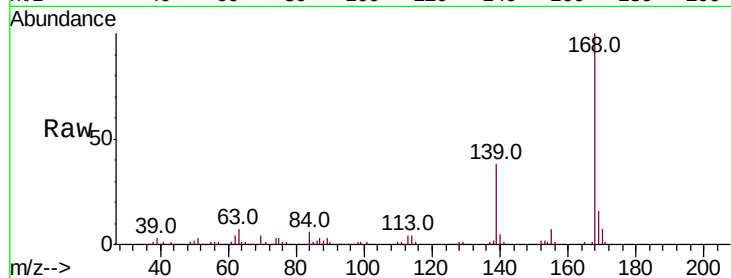
Tot Ion:139 Resp: 39998

Ion Ratio Lower Upper

139 100

109 1.0 43.3 83.3#

65 2.0 91.0 131.0#

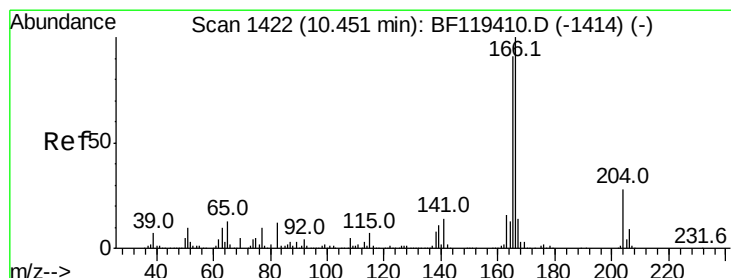
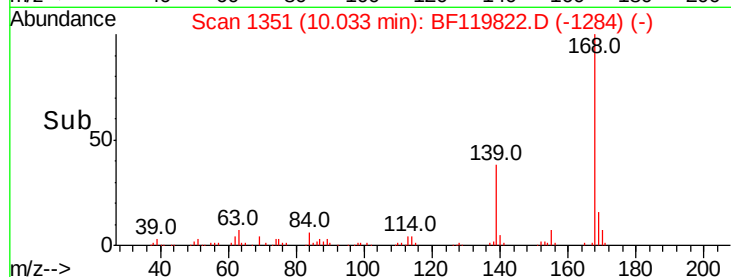
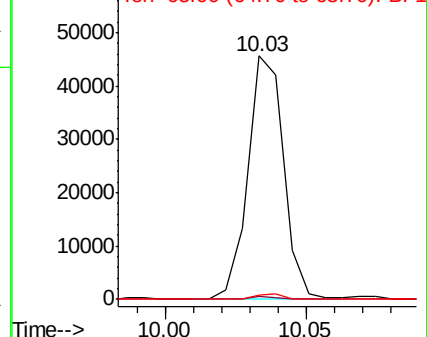


Abundance

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: 7.530 ng

RT: 10.38 min Scan# 1410

Delta R.T. 0.00 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

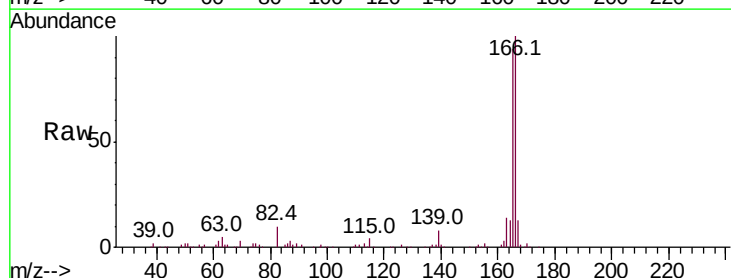
Tgt Ion:166 Resp: 107367

Ion Ratio Lower Upper

166 100

165 94.4 75.4 113.2

167 13.3 11.2 16.8

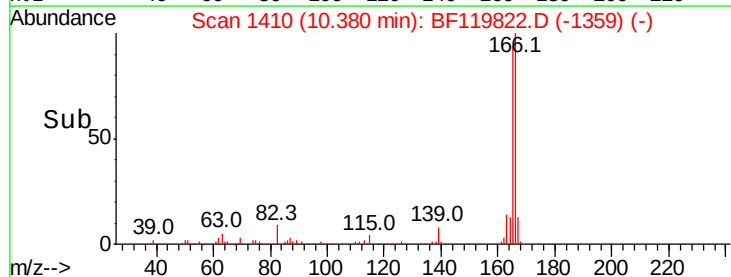
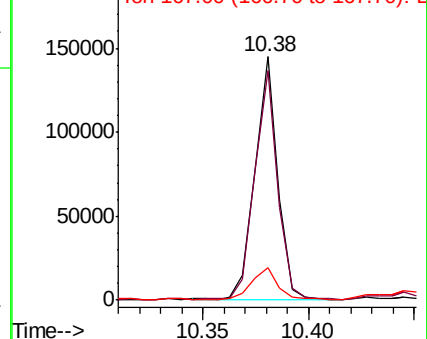


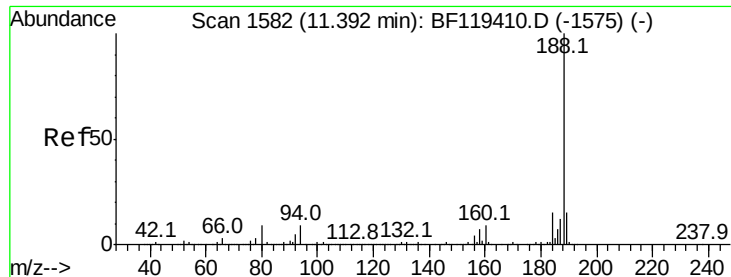
Abundance

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

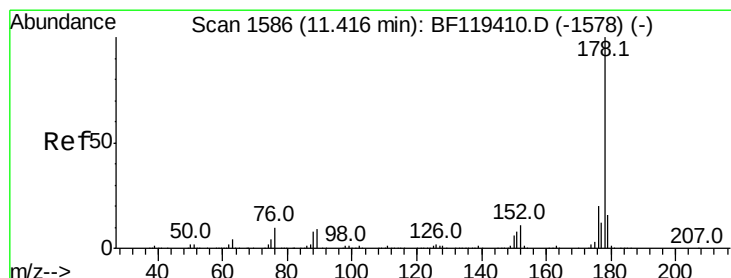
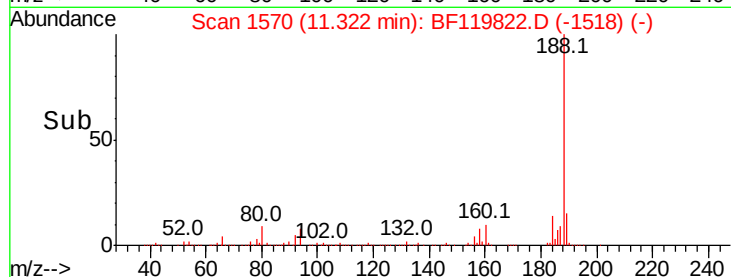
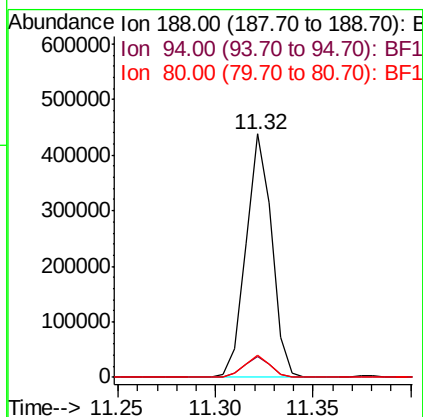
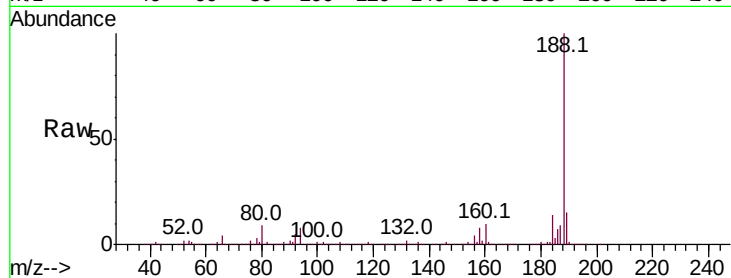




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

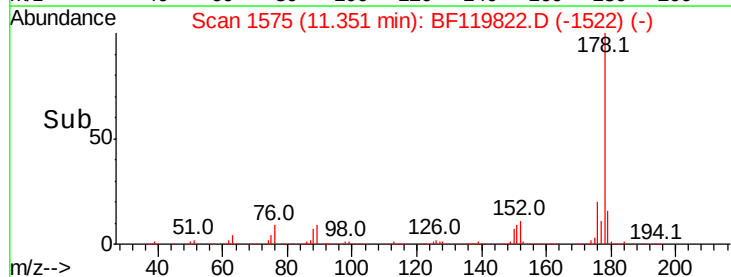
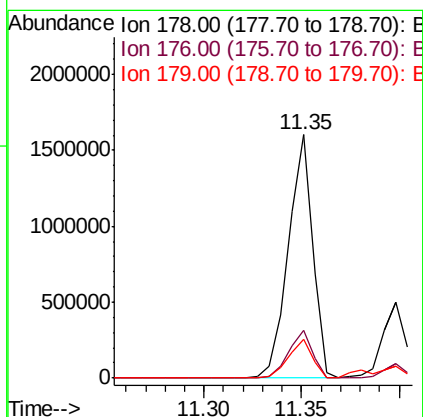
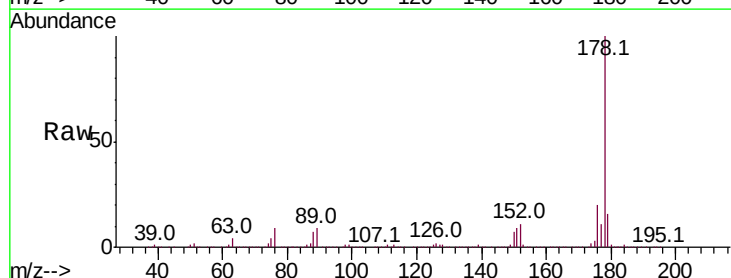
Instrument :
 BNA_F
 ClientSampleID :
 TP-6DL

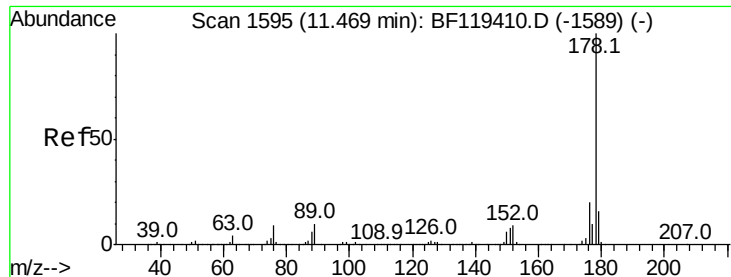
Tot Ion:188 Resp: 400940
 Ion Ratio Lower Upper
 188 100
 94 8.4 7.5 11.3
 80 9.1 9.0 13.4



#71
 Phenanthrene
 Concen: 66.788 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Tgt Ion:178 Resp: 1388513
 Ion Ratio Lower Upper
 178 100
 176 19.8 16.2 24.4
 179 15.8 13.2 19.8





#72

Anthracene

Concen: 18.510 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

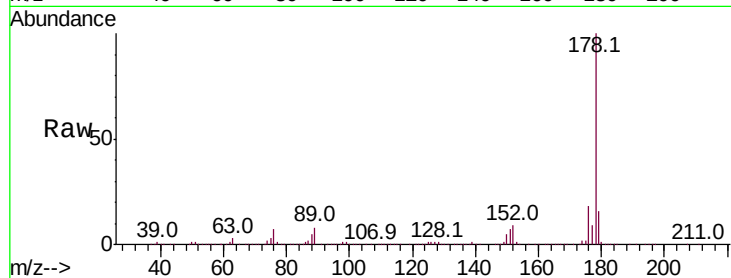
BNA_F

ClientSampleId :

TP-6DL

Tot Ion:178 Resp: 391110

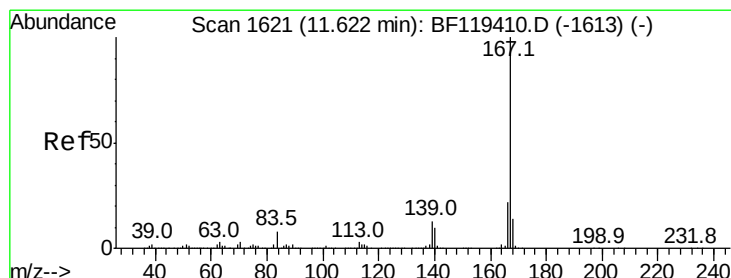
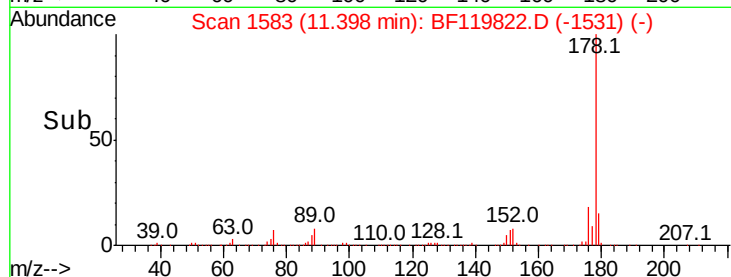
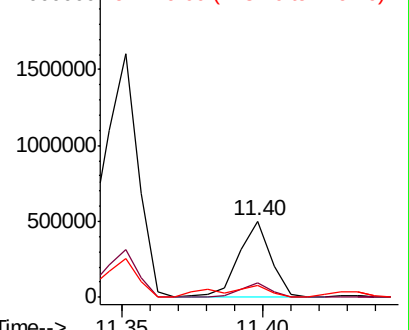
Ion	Ratio	Lower	Upper
178	100		
176	18.3	16.1	24.1
179	15.5	13.0	19.4



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



#73

Carbazole

Concen: 9.984 ng

RT: 11.55 min Scan# 1609

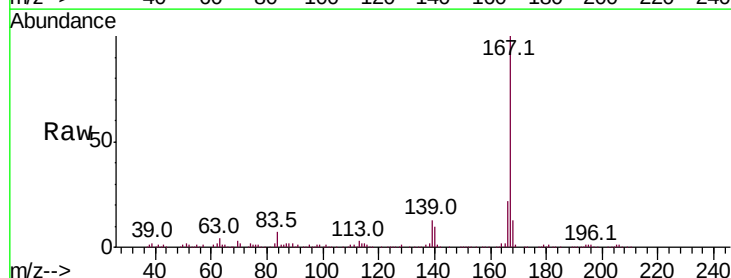
Delta R.T. 0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Tgt Ion:167 Resp: 208814

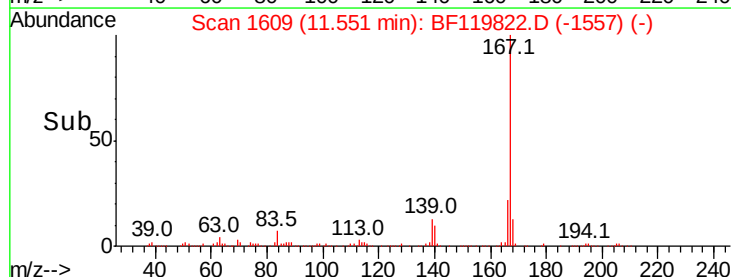
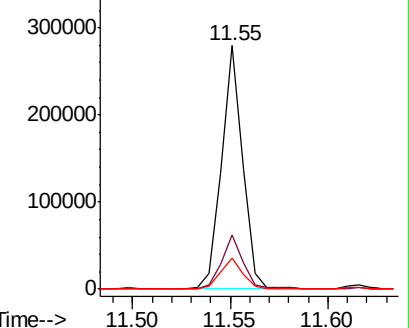
Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.2	27.4
139	12.9	10.7	16.1

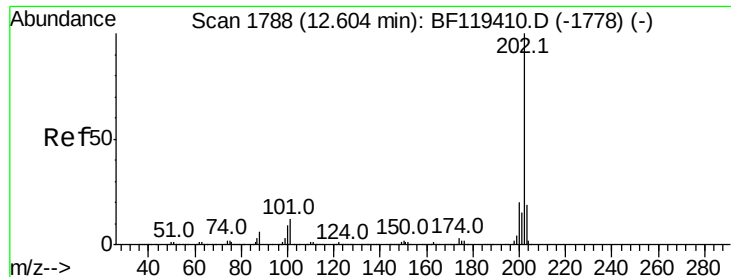


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 56.150 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

BNA_F

ClientSampleId :

TP-6DL

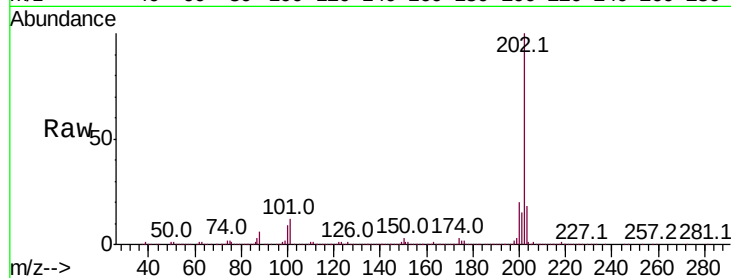
Tot Ion:202 Resp: 1263352

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.2

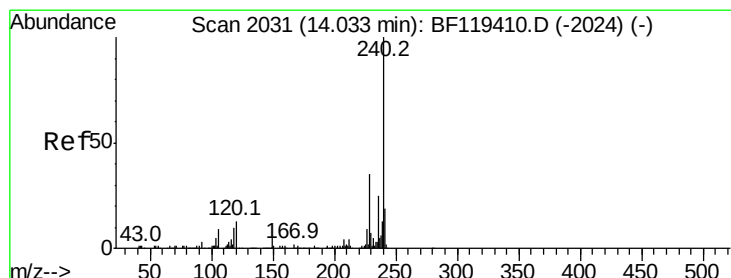
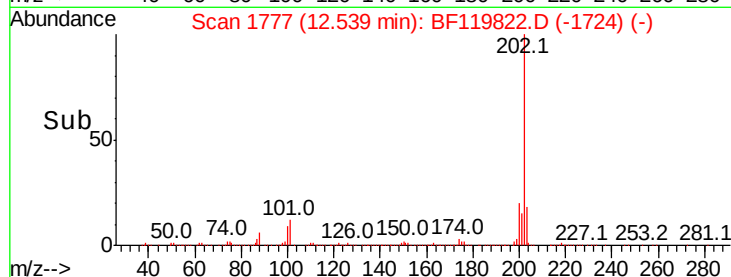
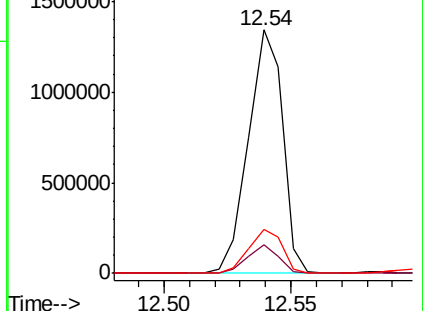
203 17.9 0.0 38.8



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: BF119822.D

Acq: 7 Apr 2020 15:15

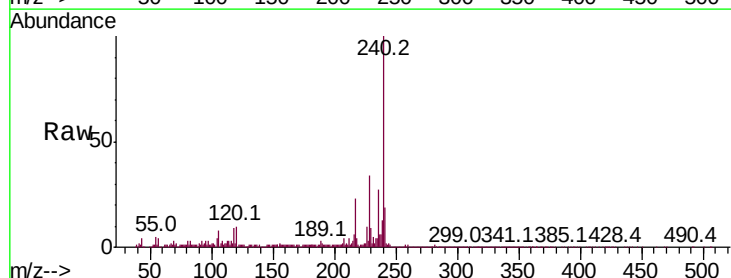
Tgt Ion:240 Resp: 286724

Ion Ratio Lower Upper

240 100

120 10.4 10.6 15.8#

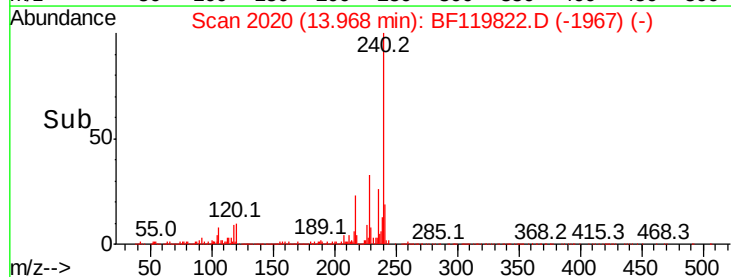
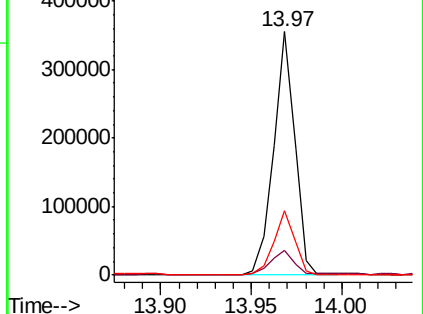
236 26.5 20.2 30.2

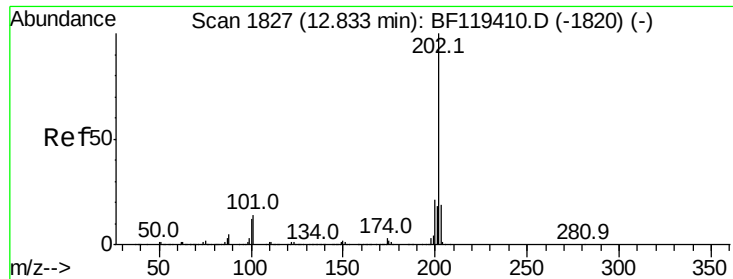


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

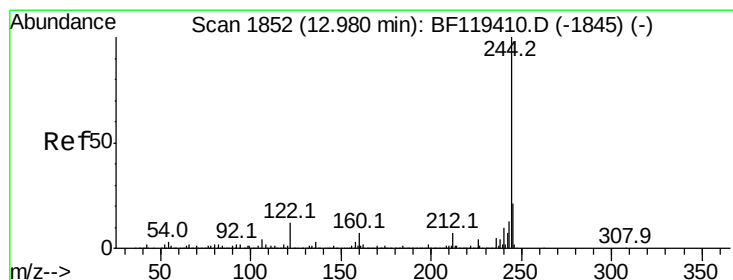
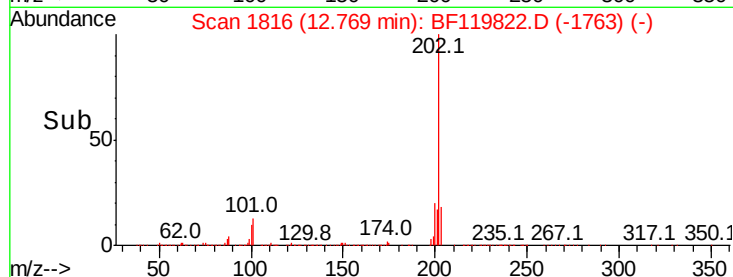
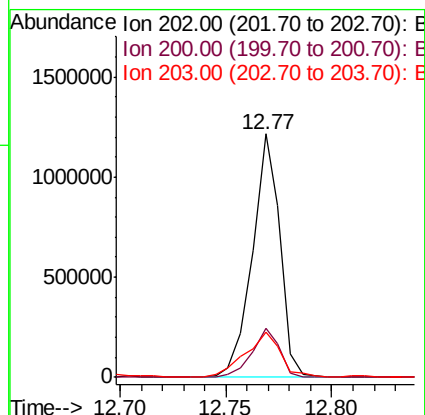
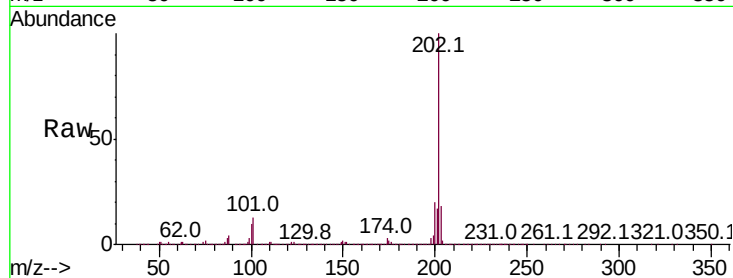




#78
Pvrene
Concen: 46.882 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

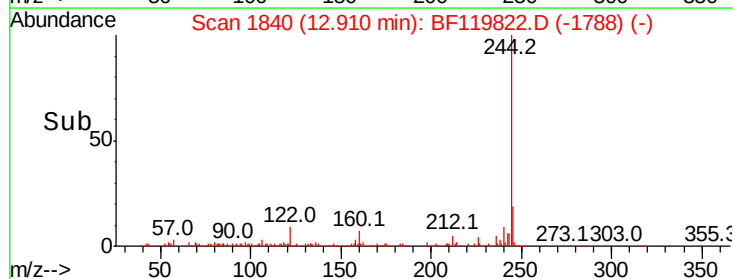
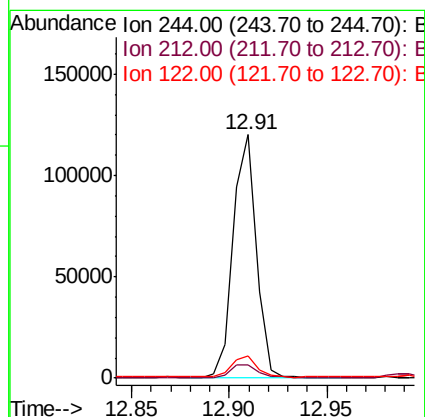
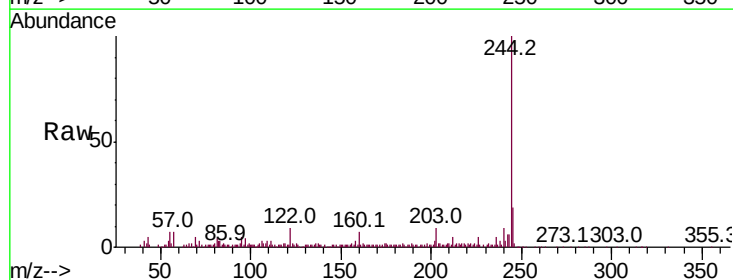
Instrument :
BNA_F
ClientSampleId :
TP-6DL

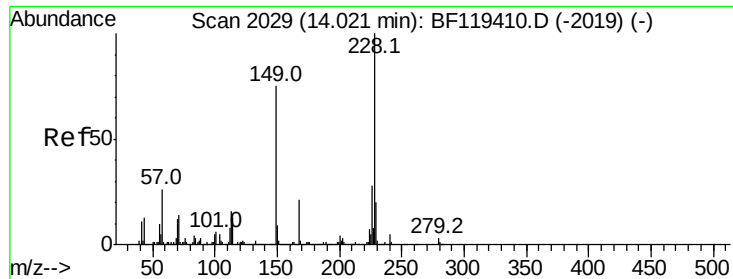
Tot Ion:202 Resp: 1103190
Ion Ratio Lower Upper
202 100
200 20.1 16.8 25.2
203 18.4 15.1 22.7



#79
Terphenyl-d14
Concen: 6.841 ng
RT: 12.91 min Scan# 1840
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Tgt Ion:244 Resp: 100110
Ion Ratio Lower Upper
244 100
212 5.4 5.8 8.8#
122 9.0 10.3 15.5#

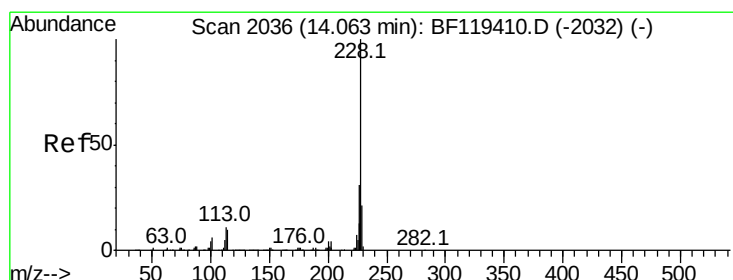
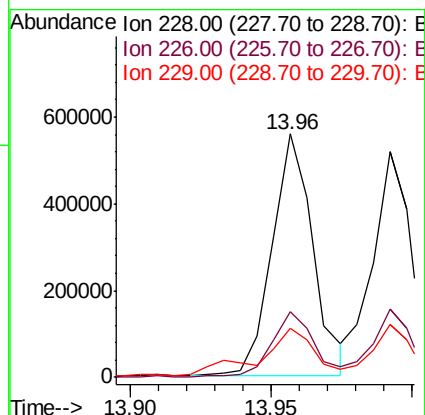
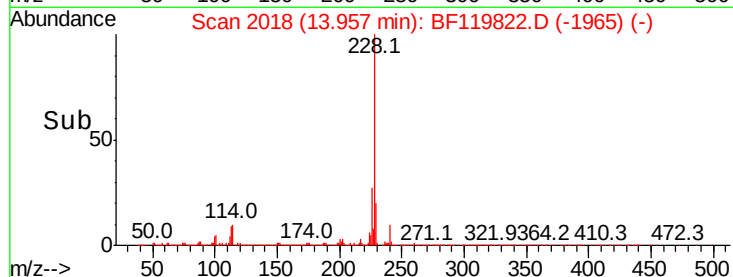
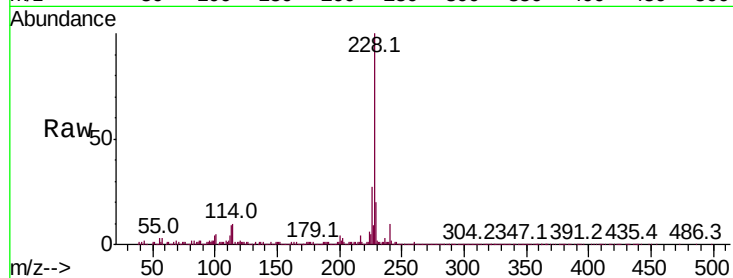




#81
Benzo(a)anthracene
Concen: 30.184 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

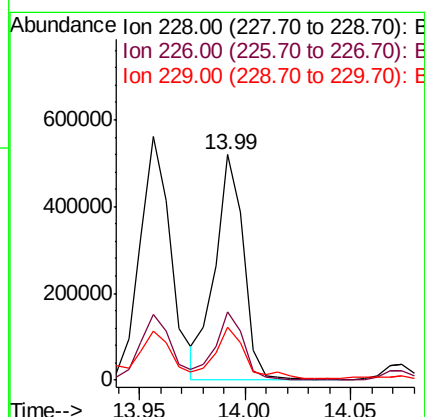
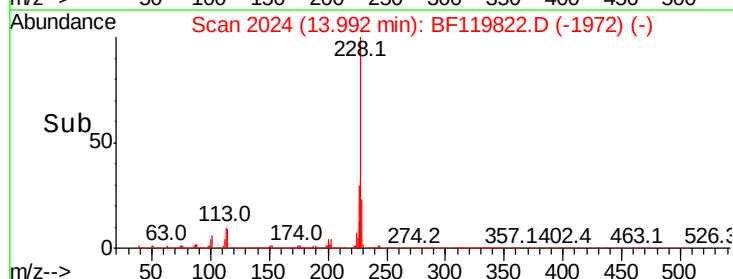
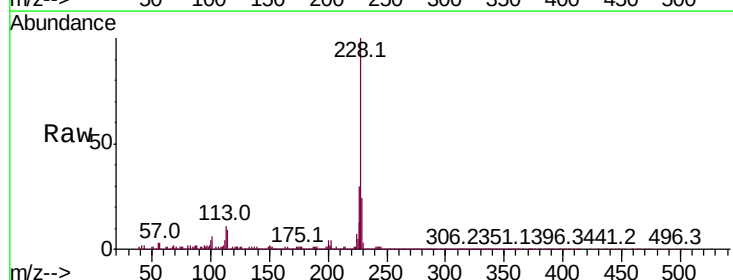
Instrument :
BNA_F
ClientSampleId :
TP-6DL

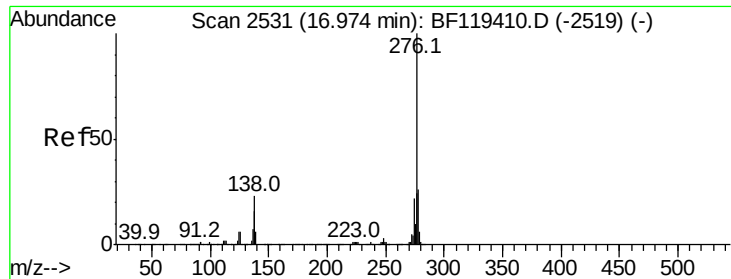
Tot Ion:228 Resp: 562794
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.8
229 20.0 16.2 24.4



#83
Chrysene
Concen: 25.087 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Tgt Ion:228 Resp: 482742
Ion Ratio Lower Upper
228 100
226 30.1 25.4 38.0
229 23.6 16.6 24.8

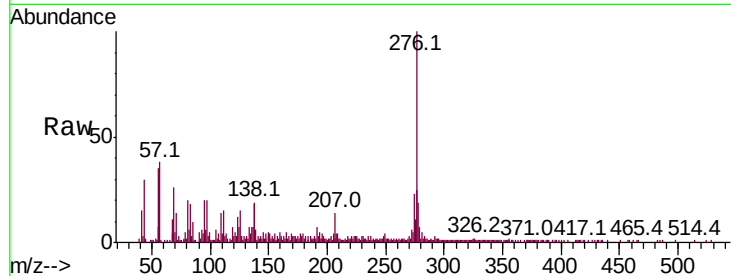




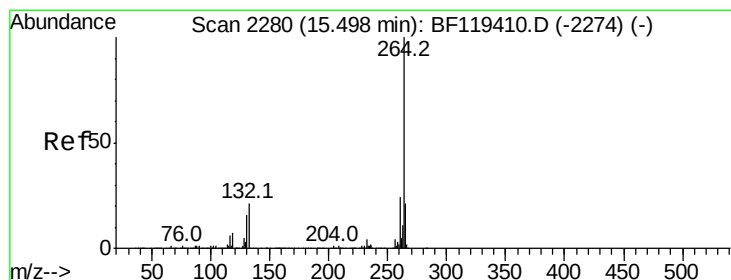
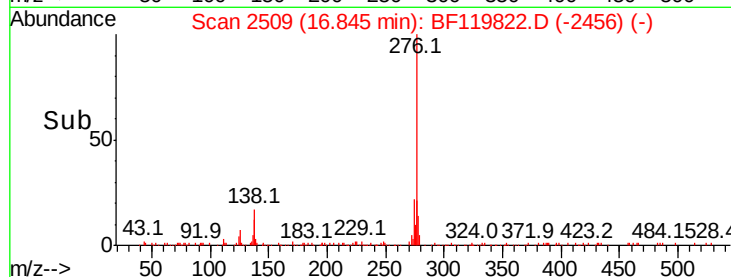
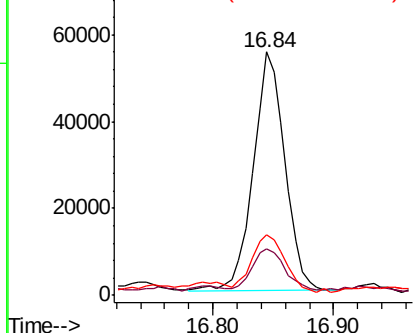
#86
Indeno(1,2,3-cd)pyrene
Concen: 5.499 ng
RT: 16.84 min Scan# 2509
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Instrument :
BNA_F
ClientSampleId :
TP-6DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.6	19.6	29.4
277	25.0	20.0	30.0

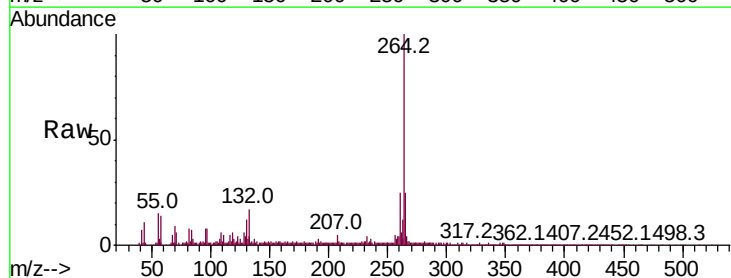


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

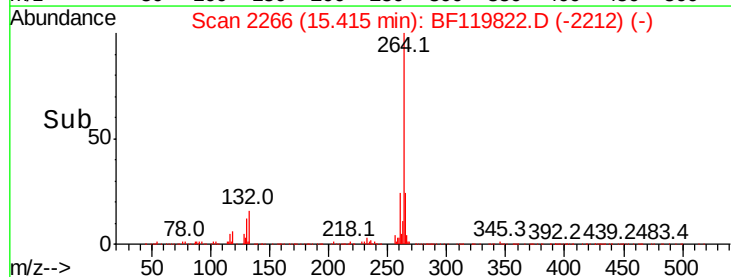
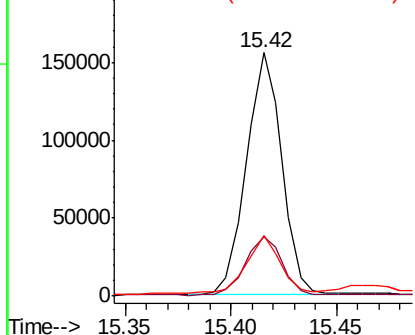


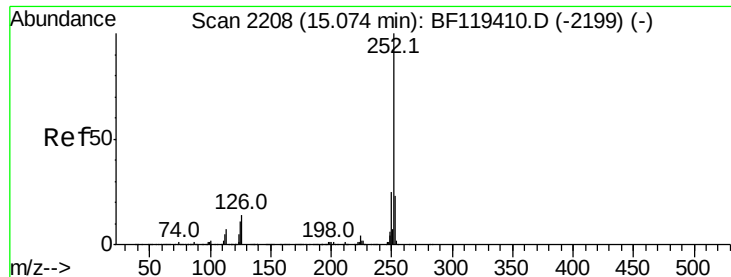
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.02 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.7	28.1
265	25.1	17.7	26.5



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

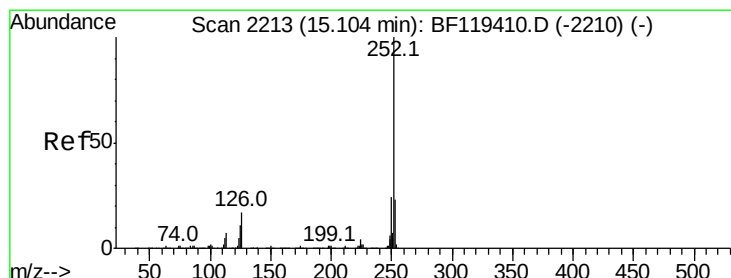
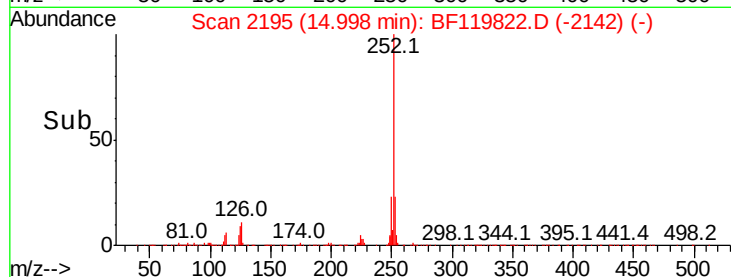
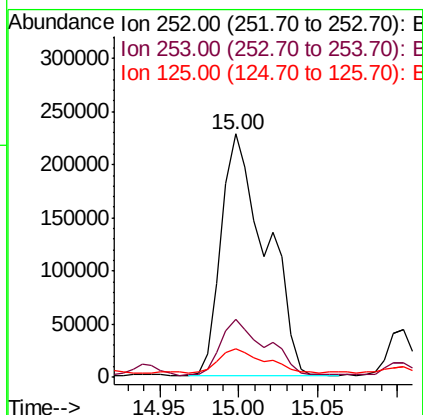
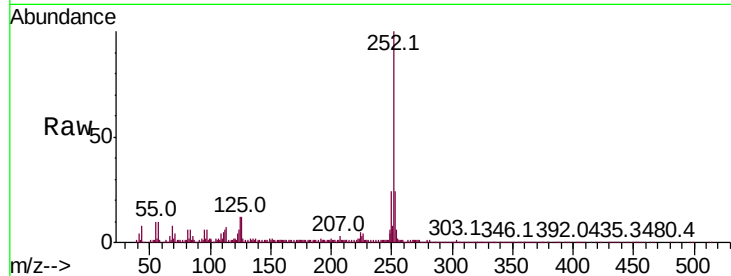




#88
Benzo(b)fluoranthene
Concen: 37.270 ng
RT: 15.00 min Scan# 2195
Delta R.T. 0.01 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

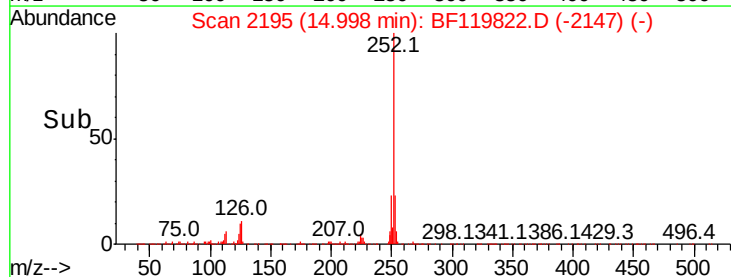
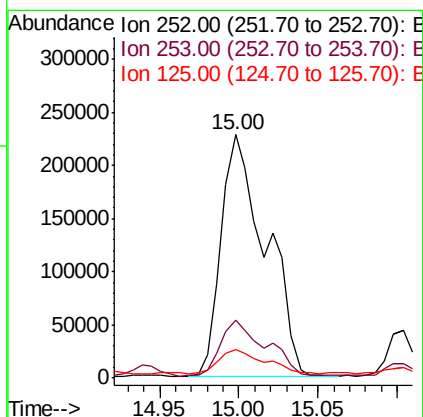
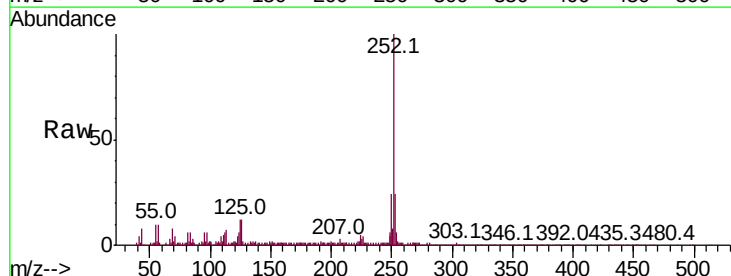
Instrument :
BNA_F
ClientSampleId :
TP-6DL

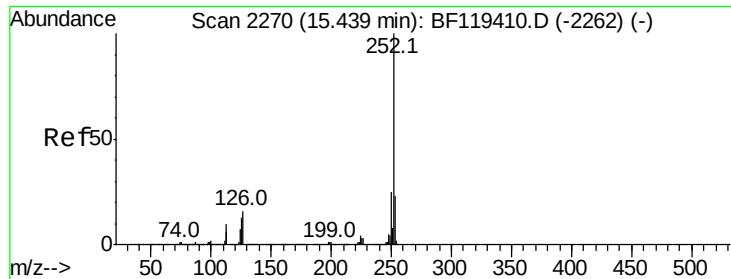
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.4	26.0
125	11.8	7.9	11.9



#89
Benzo(k)fluoranthene
Concen: 39.140 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BF119822.D
Acq: 7 Apr 2020 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.8	26.6
125	11.8	8.4	12.6





#90

Benzo(a)pyrene

Concen: 20.580 ng

RT: 15.36 min Scan# 2256

Delta R.T. 0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

Instrument :

BNA_F

ClientSampleId :

TP-6DL

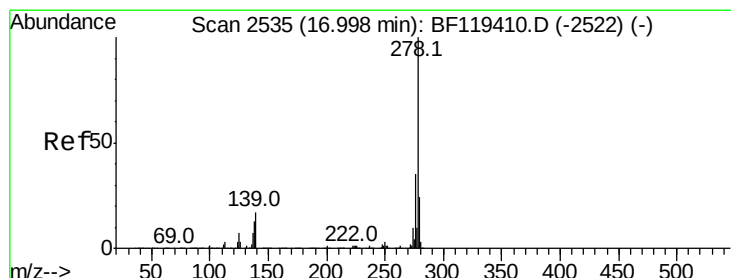
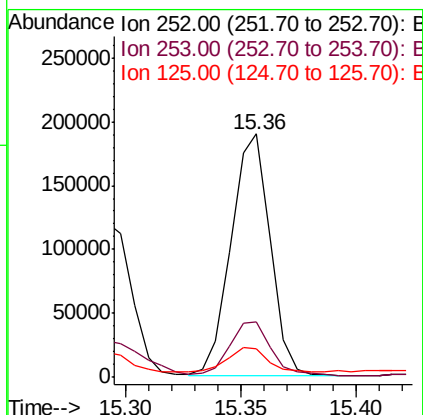
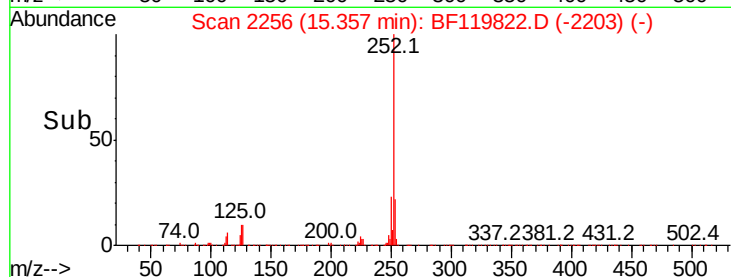
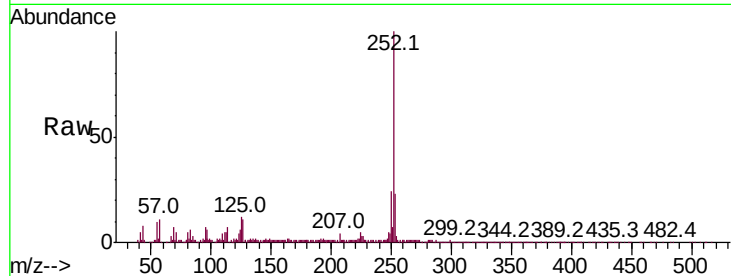
Tot Ion:252 Resp: 224480

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

125 11.9 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 3.320 ng

RT: 16.86 min Scan# 2511

Delta R.T. 0.01 min

Lab File: BF119822.D

Acq: 7 Apr 2020 15:15

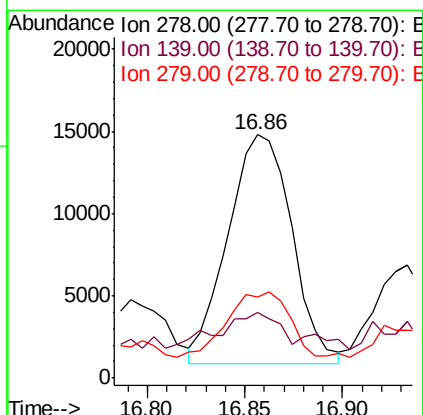
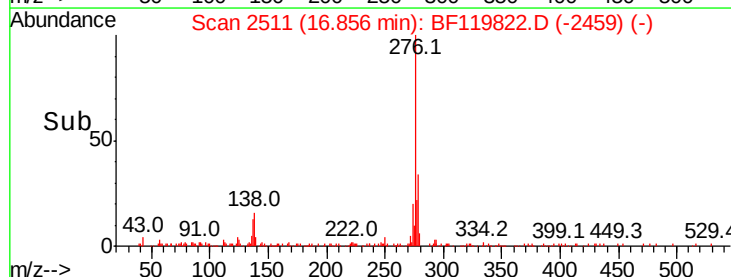
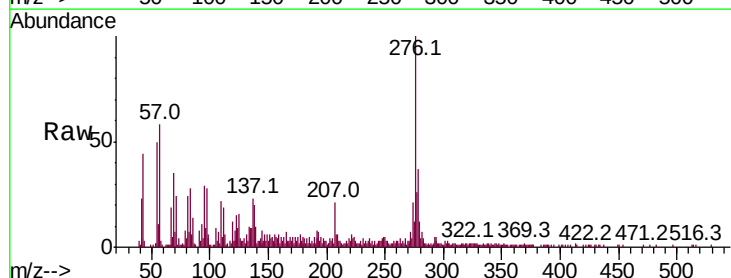
Tgt Ion:278 Resp: 31672

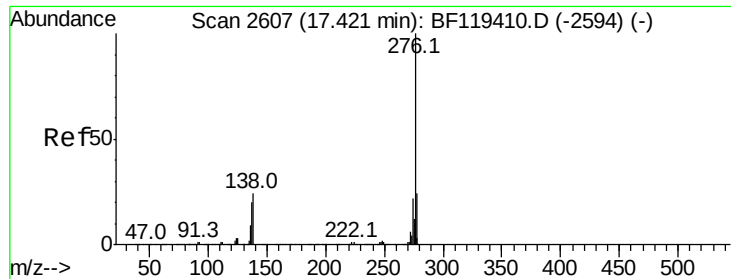
Ion Ratio Lower Upper

278 100

139 26.9 12.6 19.0#

279 33.3 19.0 28.6#

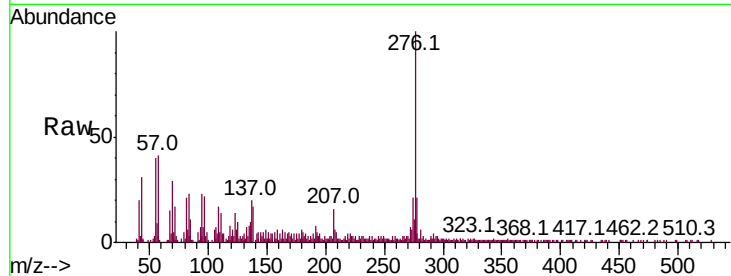




#92
 Benzo(a,h,i)perylene
 Concen: 9.202 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. 0.01 min
 Lab File: BF119822.D
 Acq: 7 Apr 2020 15:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-6DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	20.5	18.4	27.6
138	16.8	15.4	23.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

