

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021120\
 Data File : BF118906.D
 Acq On : 12 Feb 2020 1:49
 Operator : CG/JU
 Sample : L1468-01DL 50X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP1-2.5DL

Quant Time: Feb 12 06:54:07 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	201664	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	794800	20.00	ng	-0.02
39) Acenaphthene-d10	9.85	164	454891	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	1000319	20.00	ng	-0.01
76) Chrysene-d12	13.97	240	622161	20.00	ng	-0.01
87) Perylene-d12	15.42	264	602520	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	13628	1.28	ng	0.00
7) Phenol-d6	6.45	99	14289	1.08	ng	0.00
23) Nitrobenzene-d5	7.36	82	8927	0.67	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	5908	1.09	ng	-0.01
45) 2-Fluorobiphenyl	9.16	172	26951	1.06	ng	-0.02
79) Terphenyl-d14	12.91	244	41585	1.37	ng	-0.02

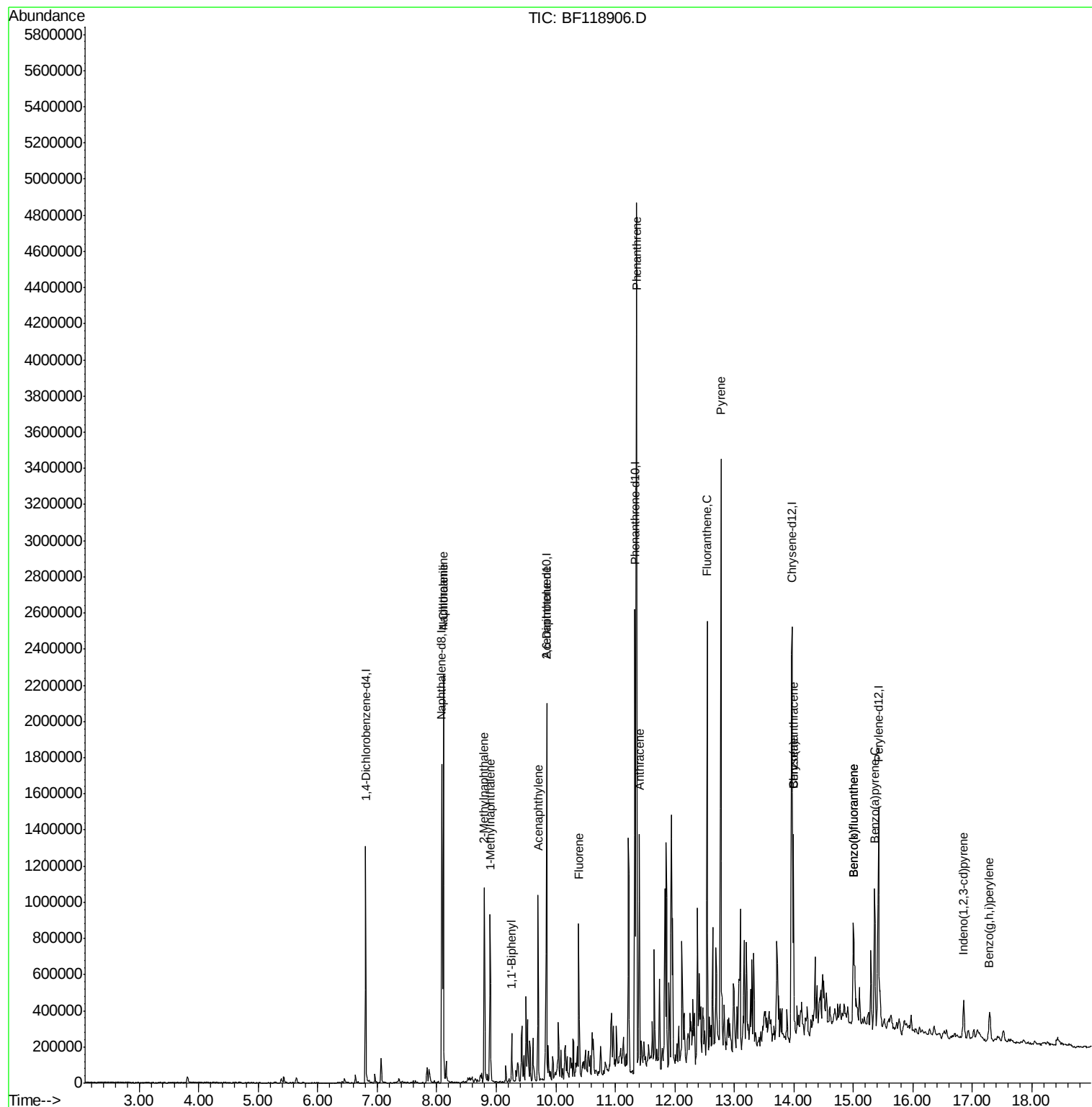
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.33	77	133	Below Cal		# 1
31) Naphthalene	8.11	128	916908	25.224	ng	98
33) 4-Chloroaniline	8.11	127	120104	7.385	ng	# 34
37) 2-Methylnaphthalene	8.80	142	302969	12.017	ng	99
38) 1-Methylnaphthalene	8.90	142	229879	9.693	ng	99
46) 1,1'-Biphenyl	9.26	154	79768	2.535	ng	97
49) Acenaphthylene	9.70	152	407499	10.789	ng	98
51) 2,6-Dinitrotoluene	9.85	165	68720	9.696	ng	# 31
58) Fluorene	10.39	166	254469	9.404	ng	99
71) Phenanthrene	11.36	178	1785918	36.286	ng	99
72) Anthracene	11.40	178	485748	9.921	ng	96
75) Fluoranthene	12.54	202	993458	18.488	ng	98
78) Pvrene	12.77	202	1421063	33.294	ng	98
81) Benzo(a)anthracene	13.99	228	424573	11.468	ng	95
83) Chrysene	13.99	228	424573	11.426	ng	97
86) Indeno(1,2,3-cd)pyrene	16.85	276	131485	3.522	ng	97
88) Benzo(b)fluoranthene	15.00	252	473239	12.658	ng	99
89) Benzo(k)fluoranthene	15.00	252	473239	14.536	ng	99
90) Benzo(a)pvrene	15.36	252	374345	11.700	ng	98
92) Benzo(a,h,i)perylene	17.29	276	136132	4.983	ng	95

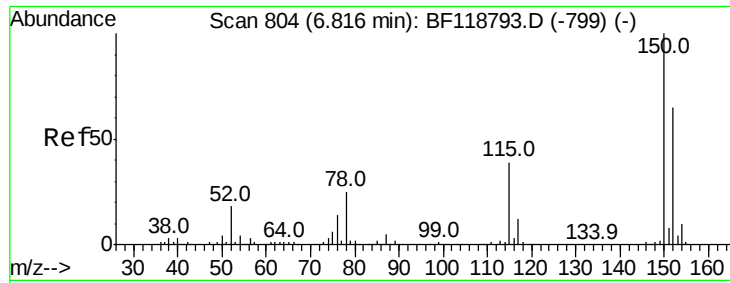
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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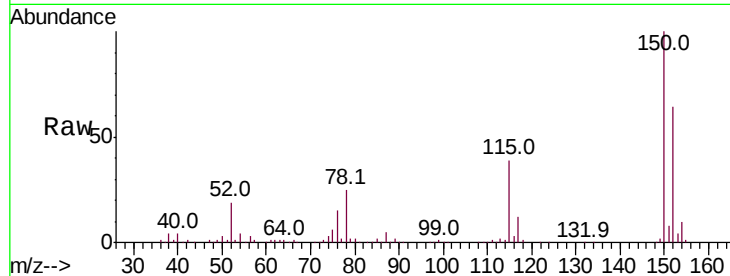


#1

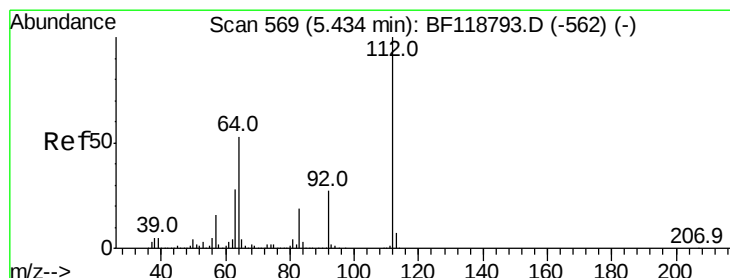
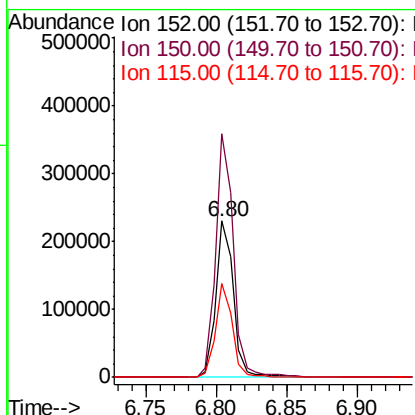
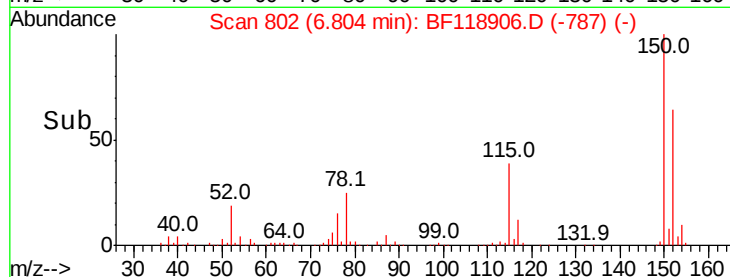
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 802
 Delta R.T. -0.01 min
 Lab File: BF118906.D
 Acq: 12 Feb 2020 1:49

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP1-2.5DL

Tot Ion:152 Resp: 201664
 Ion Ratio Lower Upper
 152 100
 150 155.9 123.6 185.4
 115 60.4 48.2 72.2



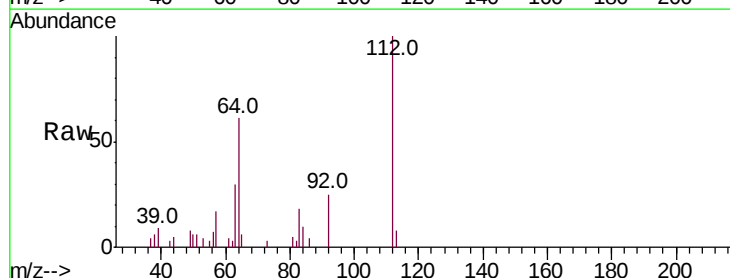
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



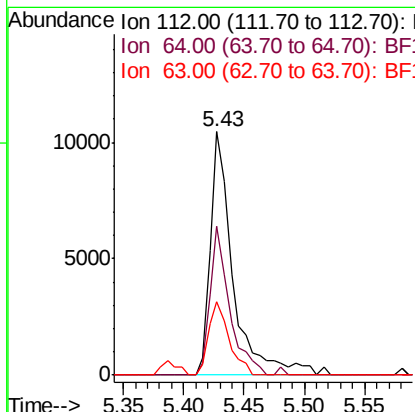
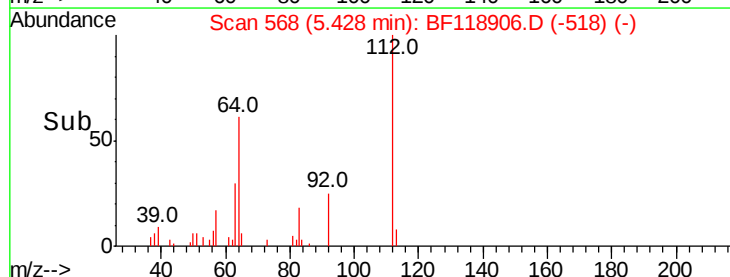
#5

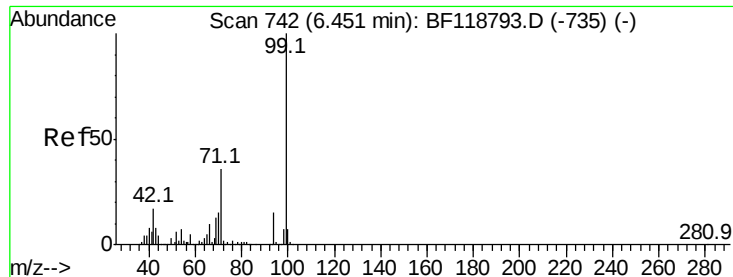
2-Fluorophenol
 Concen: 1.279 ng
 RT: 5.43 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: BF118906.D
 Acq: 12 Feb 2020 1:49

Tgt Ion:112 Resp: 13628
 Ion Ratio Lower Upper
 112 100
 64 61.3 42.6 63.8
 63 30.3 22.2 33.4



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





#7

Phenol-d6

Concen: 1.080 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

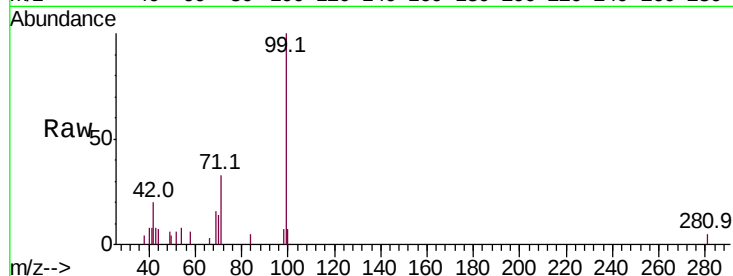
Tot Ion: 99 Resp: 14289

Ion Ratio Lower Upper

99 100

42 19.7 13.4 20.0

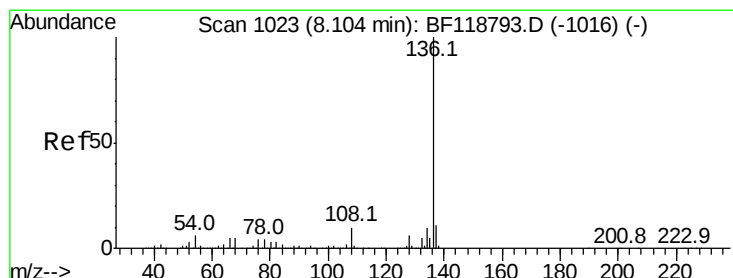
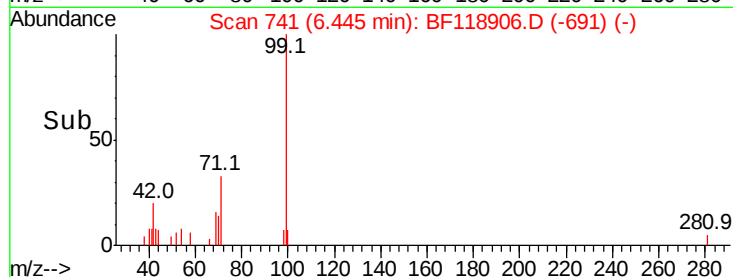
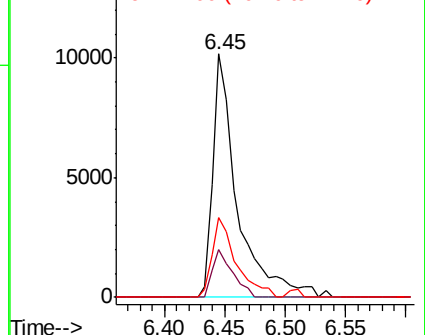
71 32.7 29.0 43.6



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: 8.09 min Scan# 1020

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Tgt Ion: 136 Resp: 794800

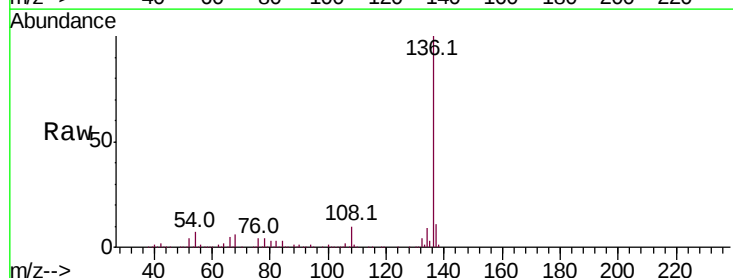
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 7.0 5.0 7.6

68 5.7 4.2 6.4

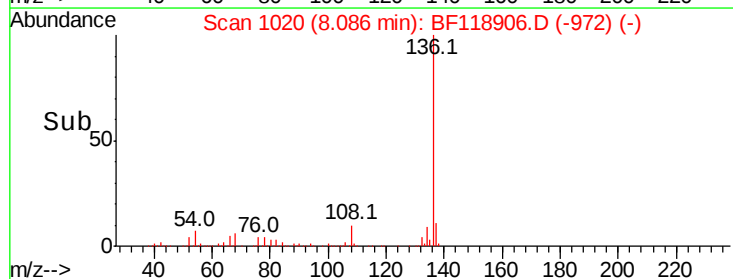
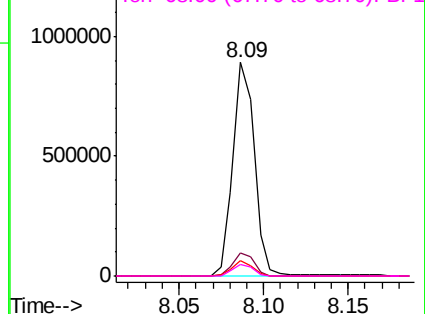


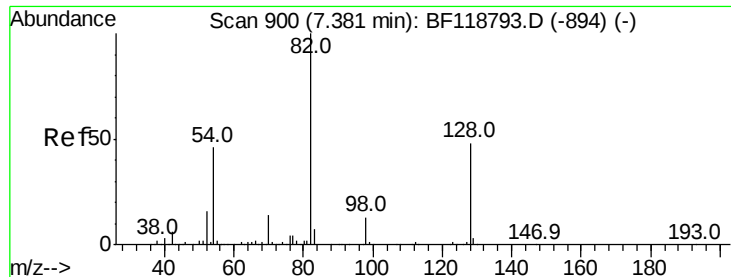
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

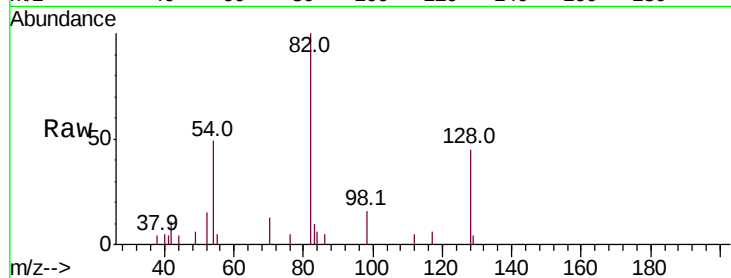




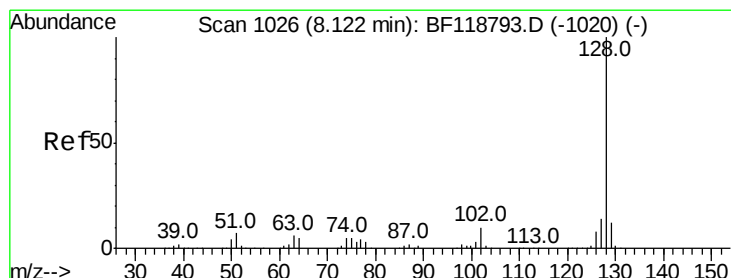
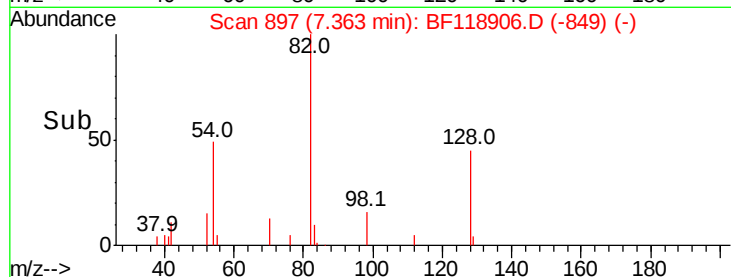
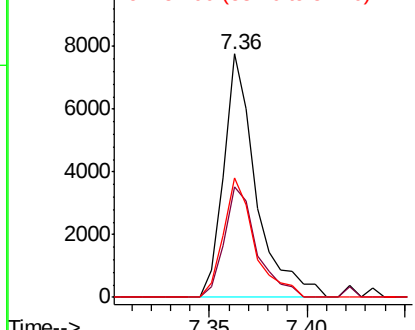
#23
Nitrobenzene-d5
Concen: 0.669 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5DL

Tot Ion	82	Resp	8927
Ion Ratio	Lower	Upper	
82	100		
128	45.5	38.5	57.7
54	48.8	36.7	55.1

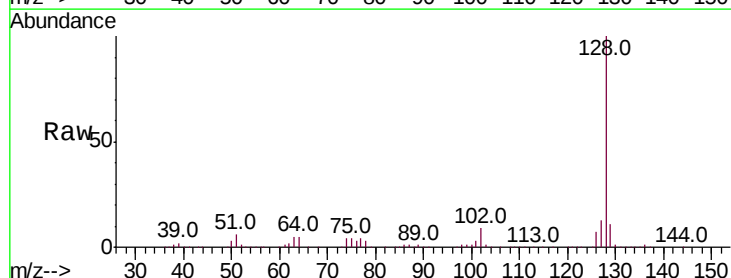


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

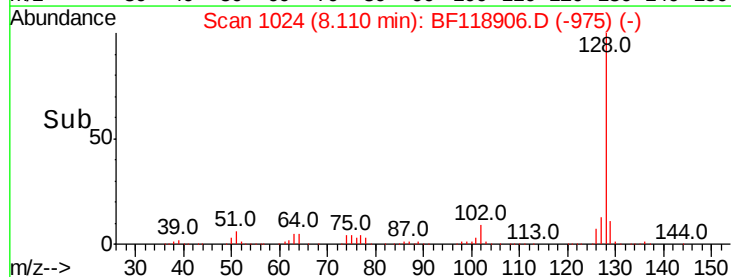
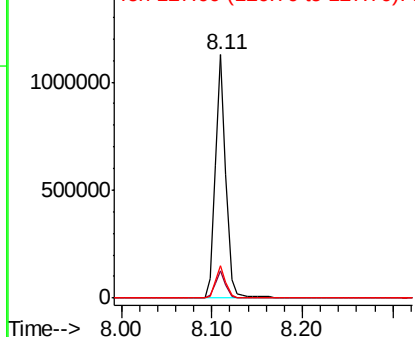


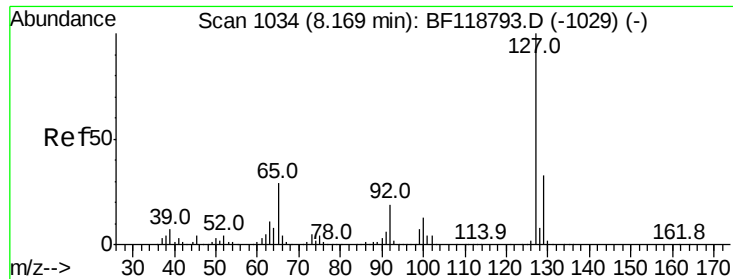
#31
Naphthalene
Concen: 25.224 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion	128	Resp	916908
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.4	14.2
127	13.3	11.3	16.9



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

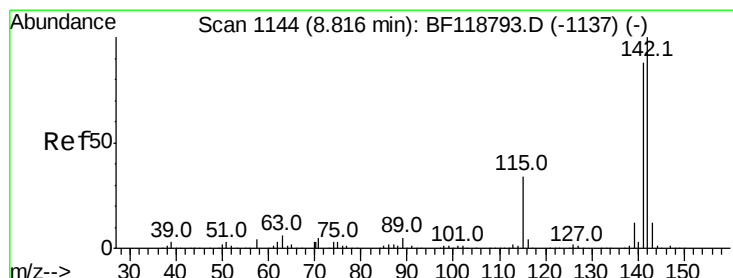
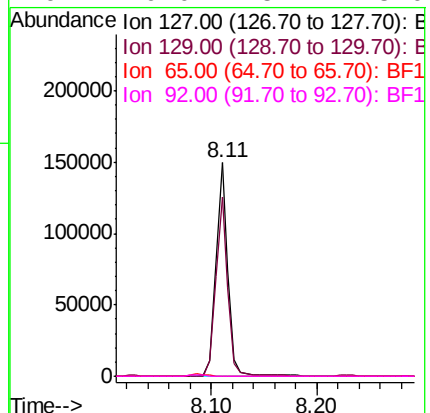
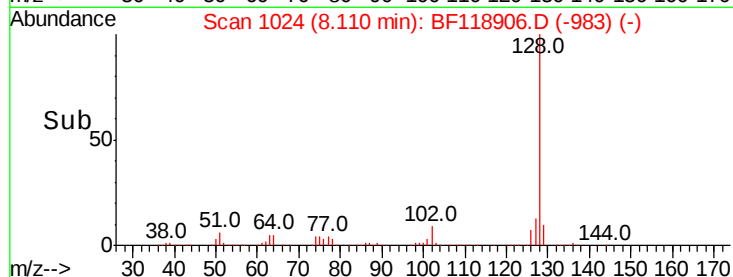
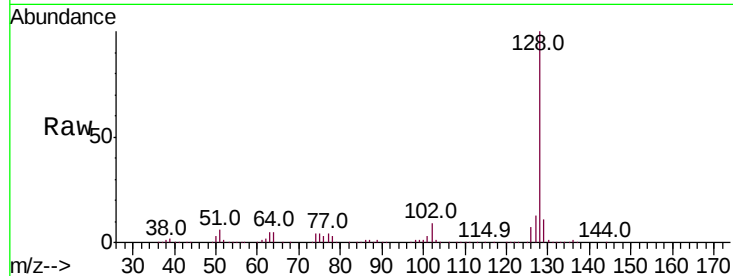




#33
4-Chloroaniline
Concen: 7.385 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.06 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

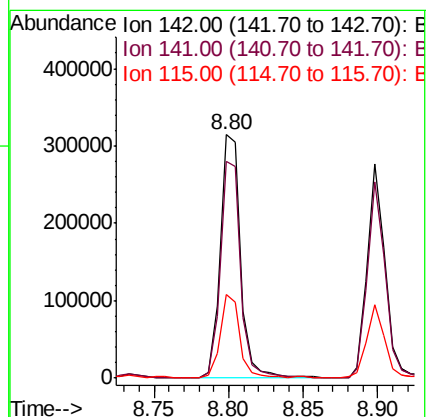
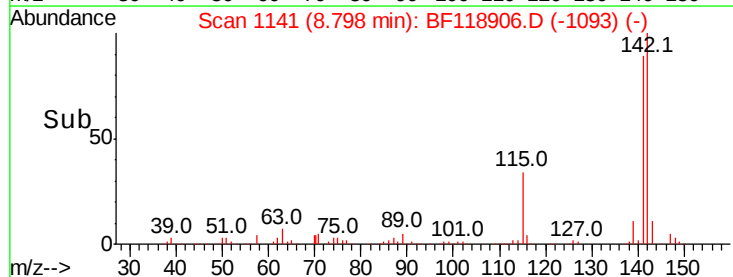
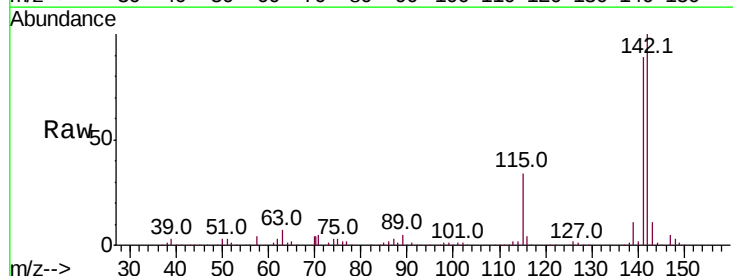
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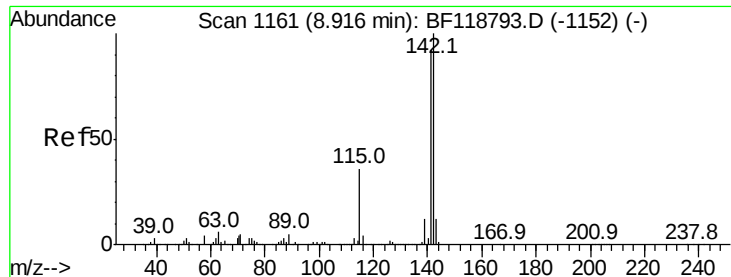
Tot Ion:127 Resp: 120104
Ion Ratio Lower Upper
127 100
129 84.1 26.7 40.1#
65 0.0 22.9 34.3#
92 0.0 15.4 23.0#



#37
2-Methylnaphthalene
Concen: 12.017 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.02 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion:142 Resp: 302969
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 34.1 27.3 40.9

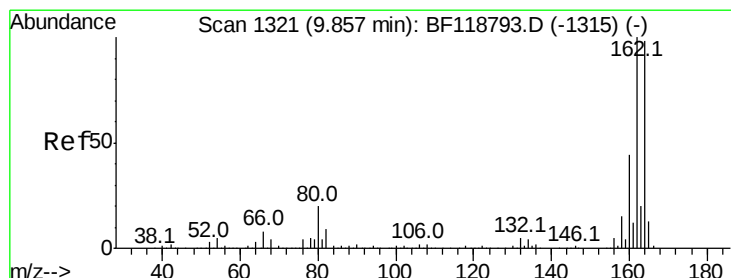
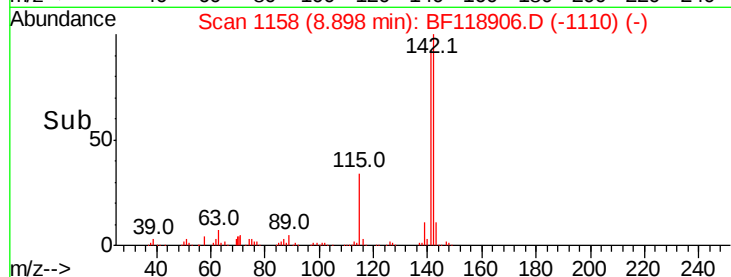
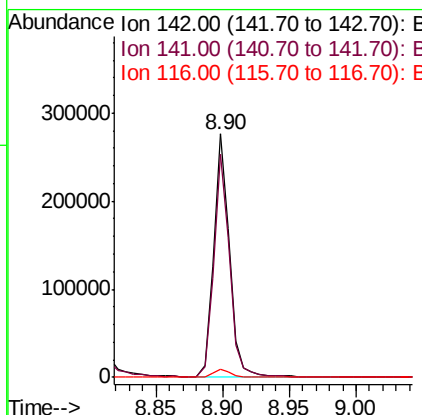
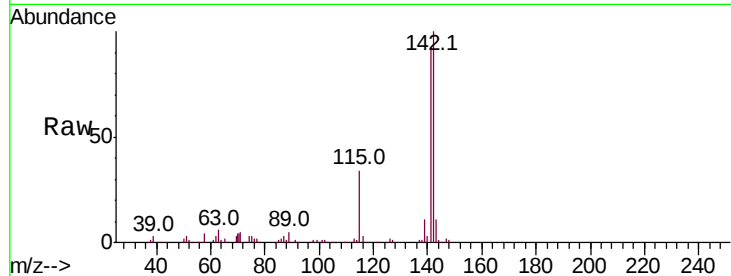




#38
1-Methylnaphthalene
Concen: 9.693 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

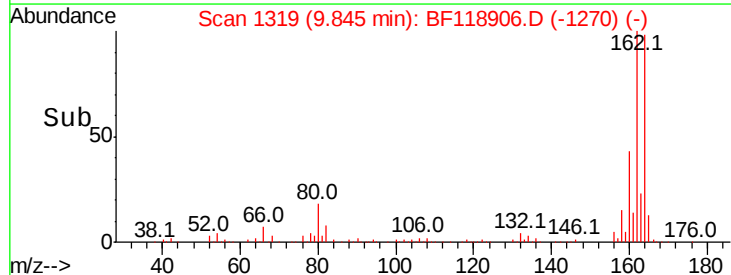
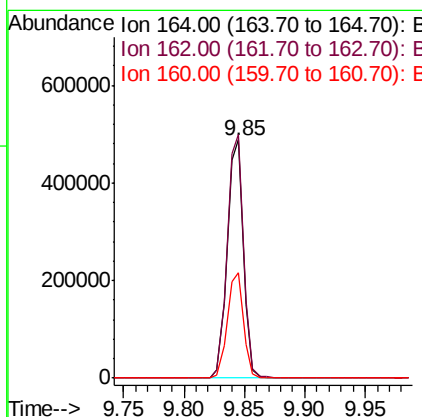
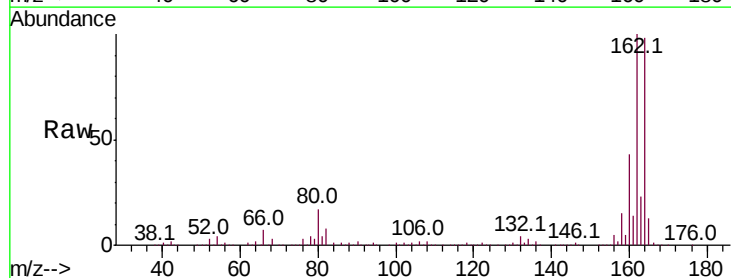
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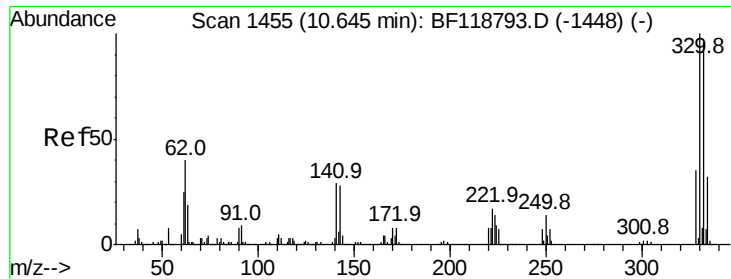
Tot Ion:142 Resp: 229879
Ion Ratio Lower Upper
142 100
141 91.7 73.8 110.6
116 3.4 3.0 4.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion:164 Resp: 454891
Ion Ratio Lower Upper
164 100
162 102.3 81.4 122.2
160 44.2 35.6 53.4

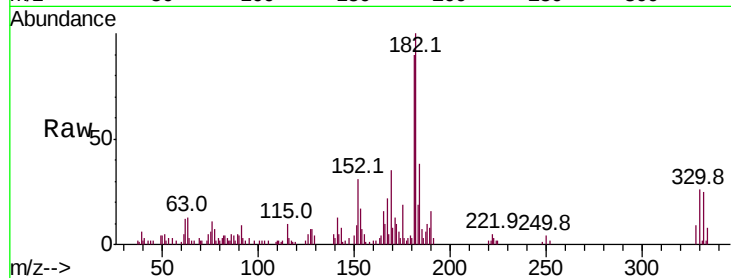




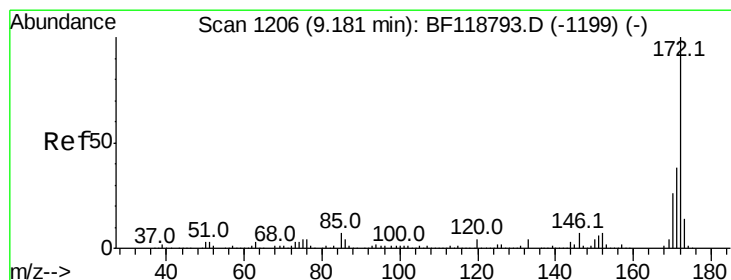
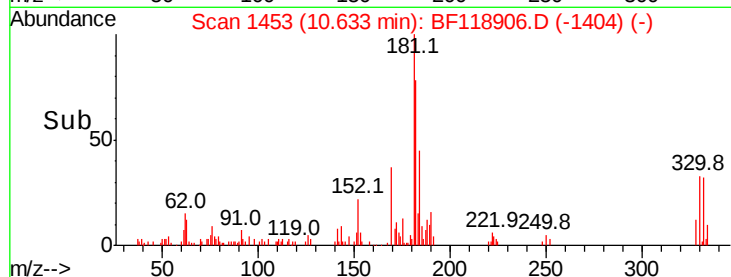
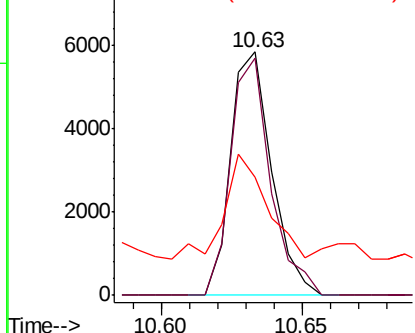
#42
 2,4,6-Tribromophenol
 Concen: 1.085 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF118906.D
 Acq: 12 Feb 2020 1:49

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.0	77.3	115.9
141	44.2	22.4	33.6

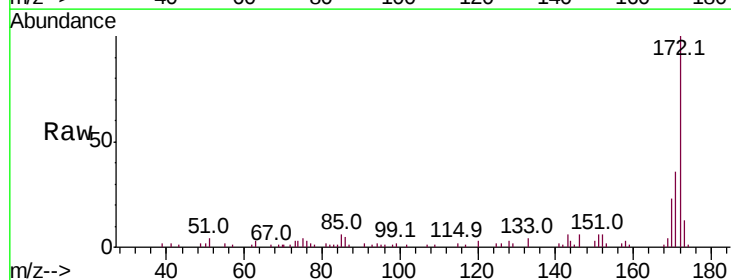


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

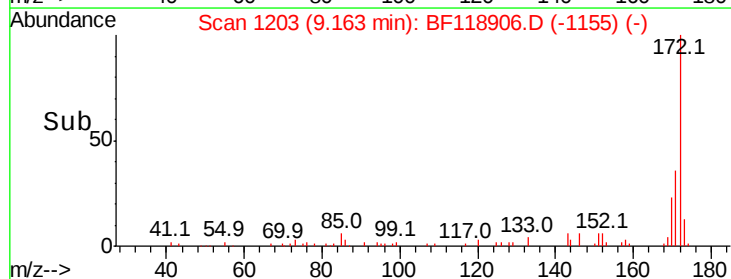
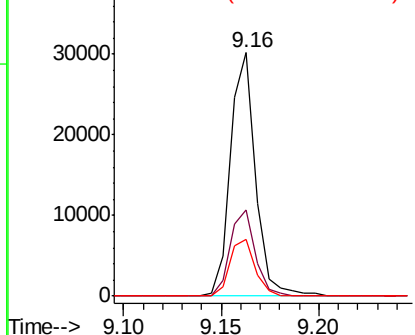


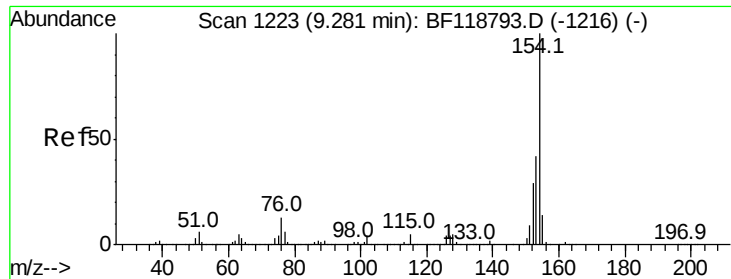
#45
 2-Fluorobiphenyl
 Concen: 1.059 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.02 min
 Lab File: BF118906.D
 Acq: 12 Feb 2020 1:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	30.8	46.2
170	23.3	20.5	30.7



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





#46

1,1'-Biphenyl

Concen: 2.535 ng

RT: 9.26 min Scan# 1220

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

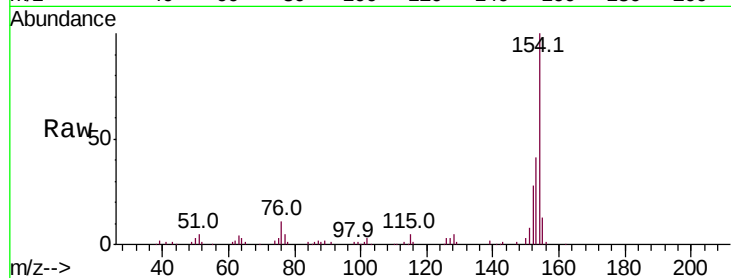
Tot Ion:154 Resp: 79768

Ion Ratio Lower Upper

154 100

153 40.9 22.4 62.4

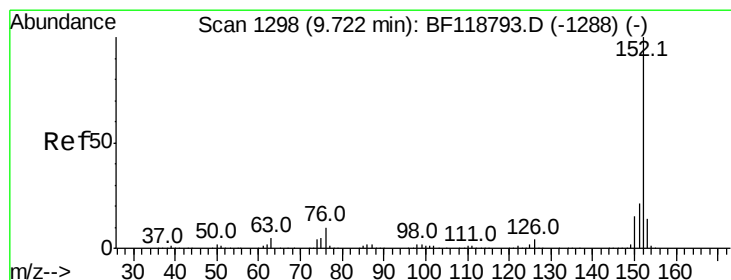
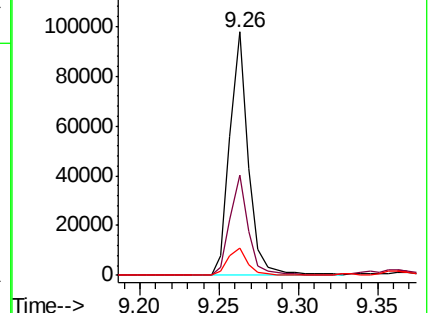
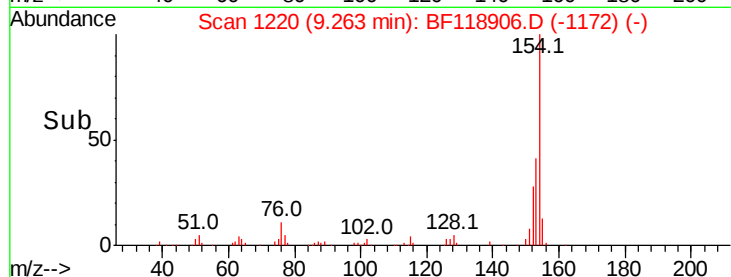
76 11.4 0.0 32.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#49

Acenaphthylene

Concen: 10.789 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

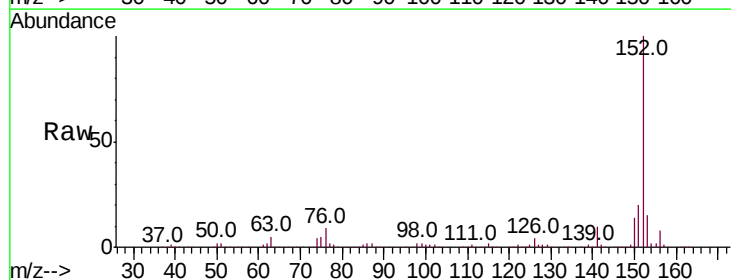
Tgt Ion:152 Resp: 407499

Ion Ratio Lower Upper

152 100

151 20.2 17.1 25.7

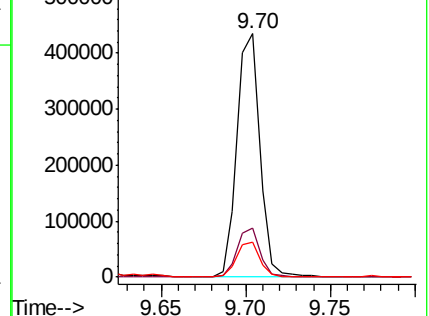
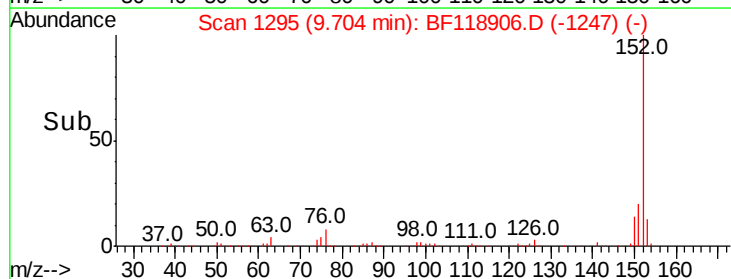
153 14.6 11.0 16.4

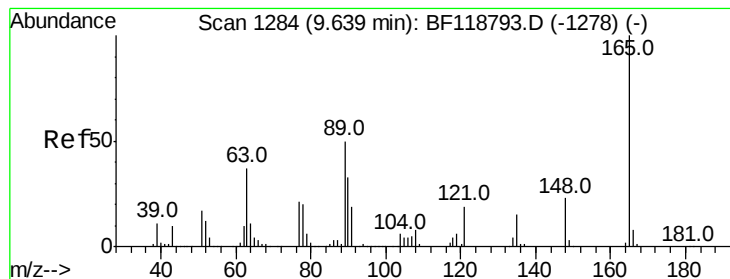


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

2,6-Dinitrotoluene

Concen: 9.696 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.21 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

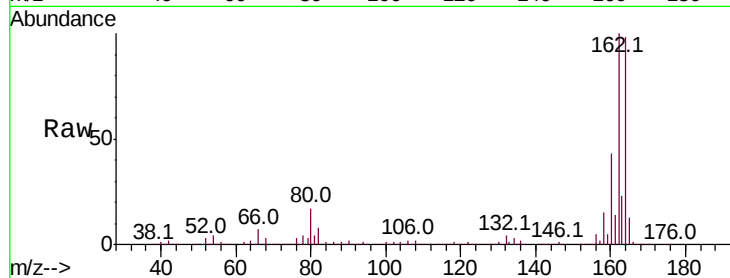
Tot Ion:165 Resp: 68720

Ion Ratio Lower Upper

165 100

63 1.2 37.4 56.0#

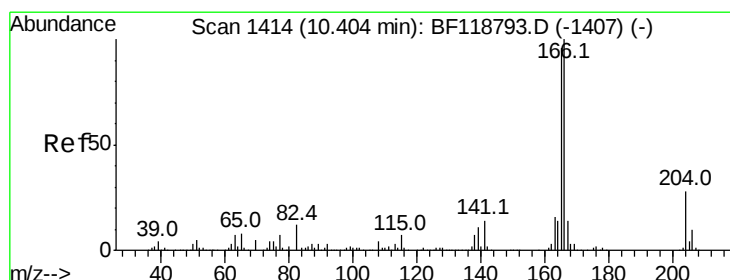
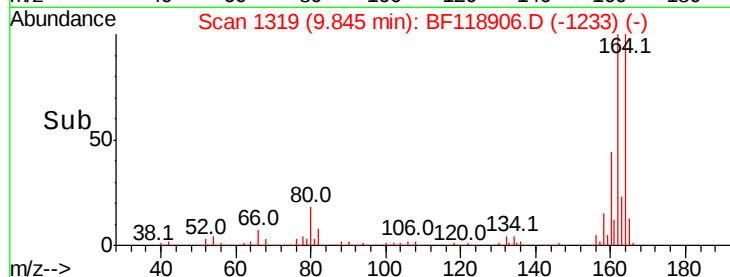
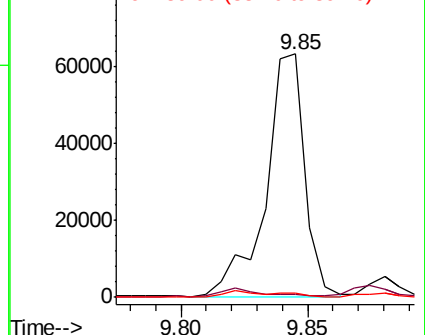
89 1.5 39.7 59.5#



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



#58

Fluorene

Concen: 9.404 ng

RT: 10.39 min Scan# 1411

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

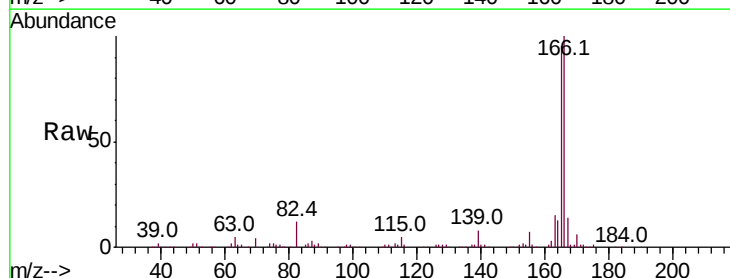
Tgt Ion:166 Resp: 254469

Ion Ratio Lower Upper

166 100

165 95.4 77.0 115.6

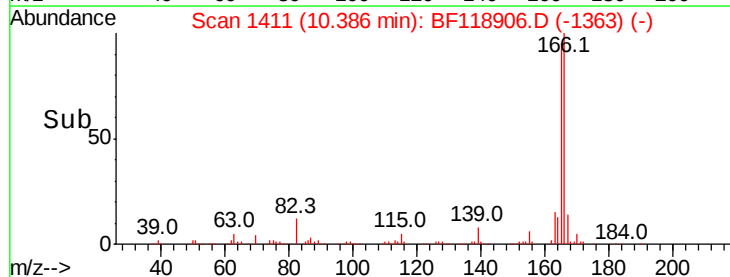
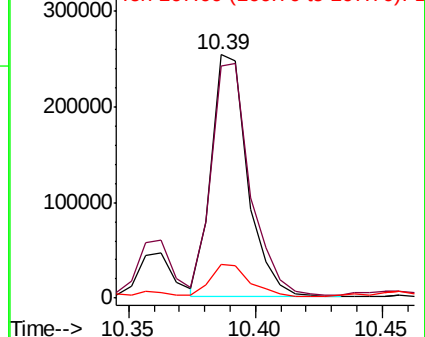
167 13.9 11.1 16.7

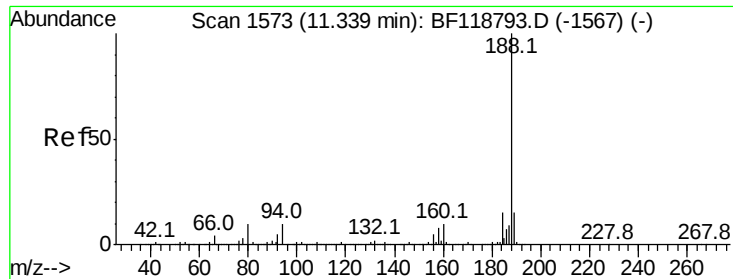


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

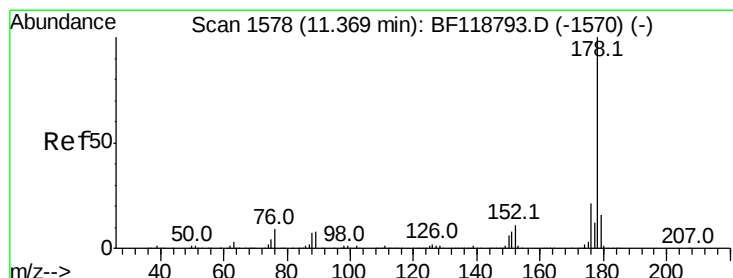
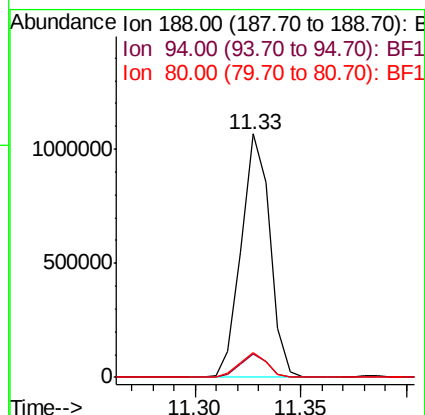
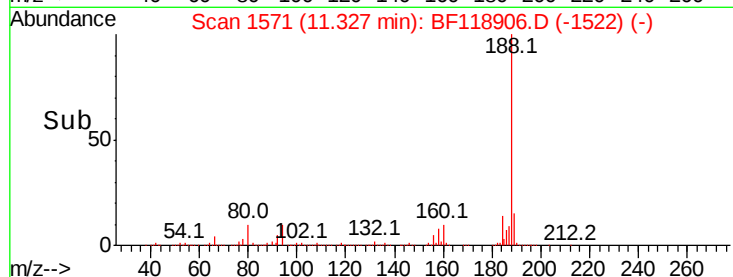
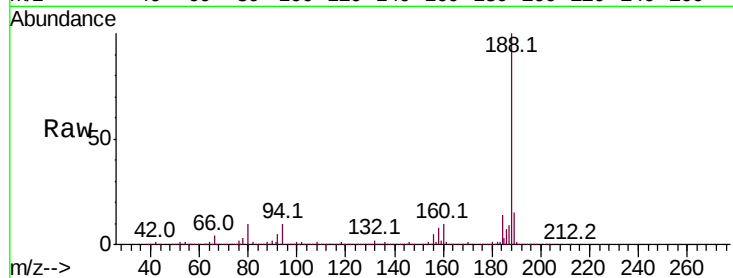




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

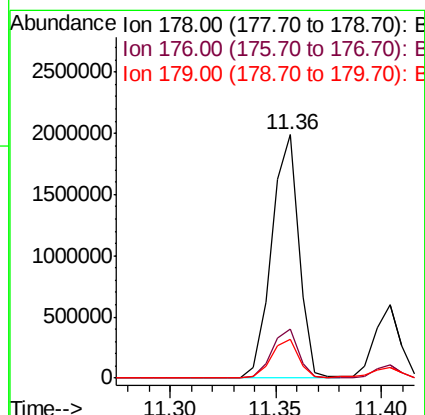
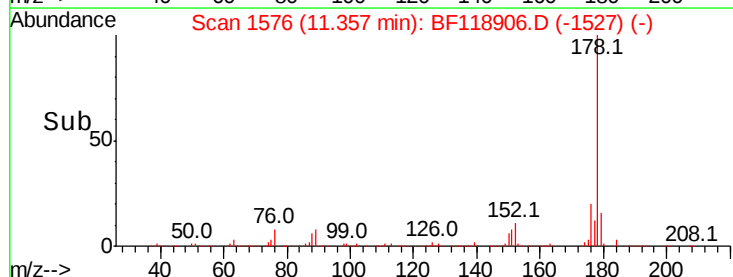
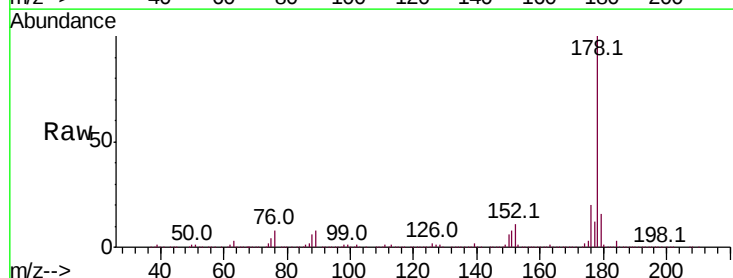
Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5DL

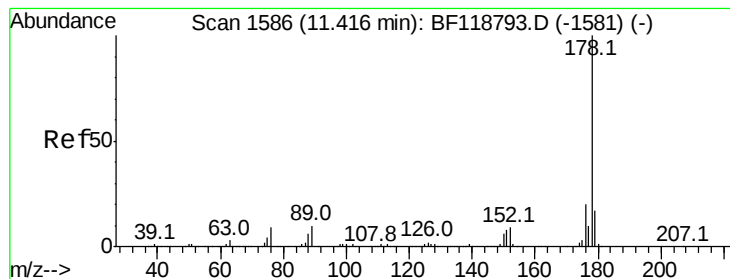
Tot Ion:188 Resp: 1000319
Ion Ratio Lower Upper
188 100
94 9.6 7.9 11.9
80 10.4 8.4 12.6



#71
Phenanthrene
Concen: 36.286 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion:178 Resp: 1785918
Ion Ratio Lower Upper
178 100
176 20.2 16.6 24.8
179 16.2 13.2 19.8





#72

Anthracene

Concen: 9.921 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

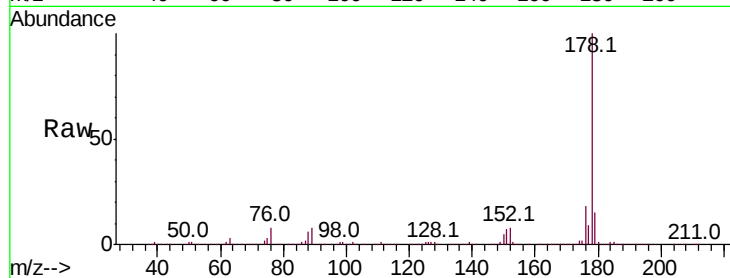
Tot Ion:178 Resp: 485748

Ion Ratio Lower Upper

178 100

176 18.1 16.2 24.2

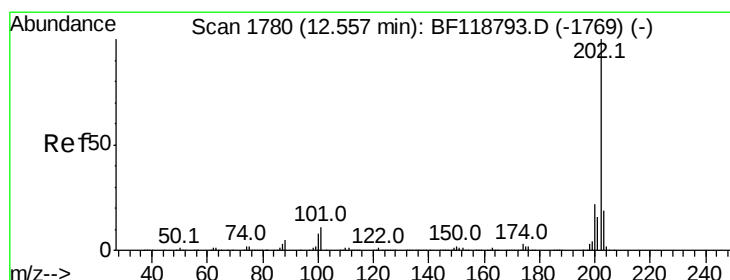
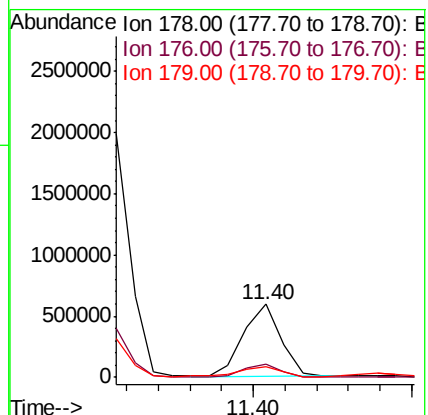
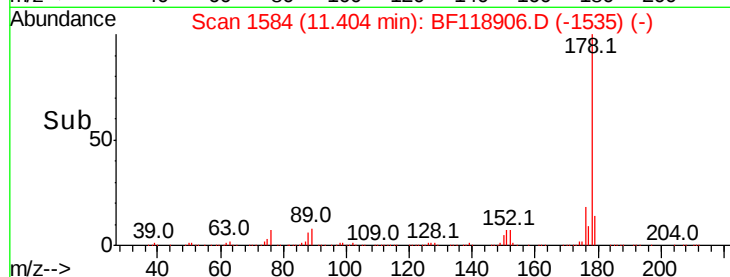
179 15.1 13.4 20.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 18.488 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

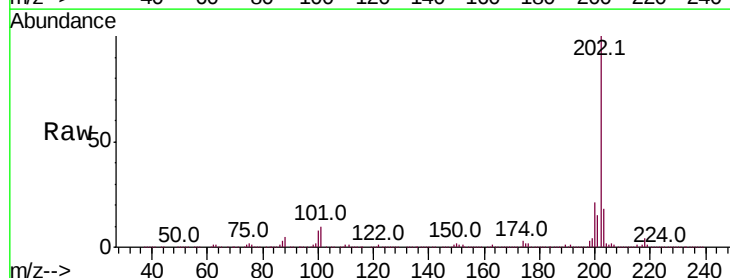
Tgt Ion:202 Resp: 993458

Ion Ratio Lower Upper

202 100

101 10.3 0.0 31.0

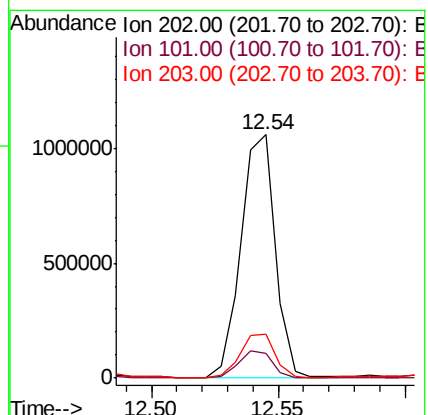
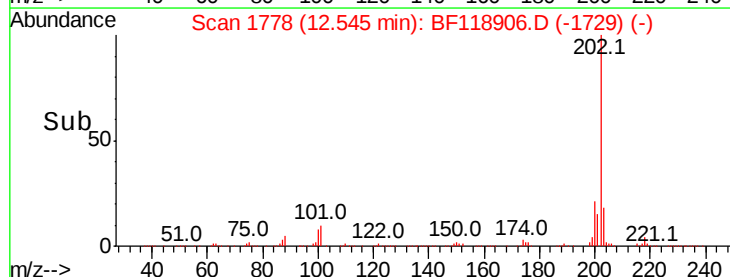
203 18.0 0.0 38.7

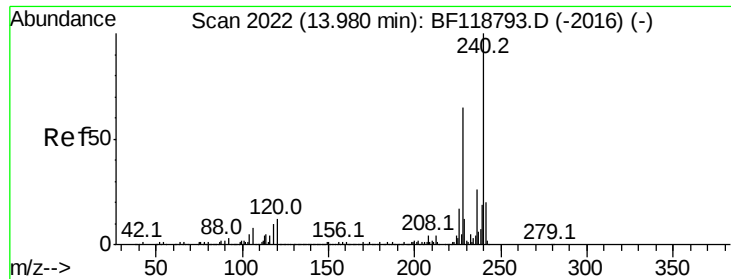


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

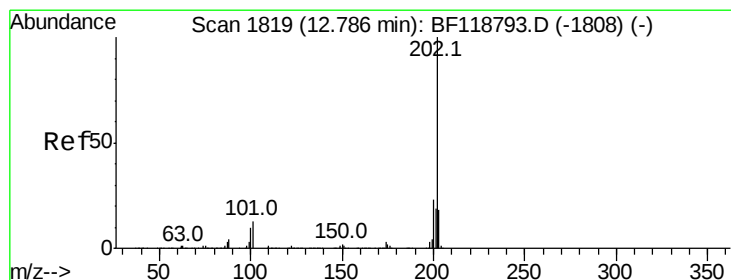
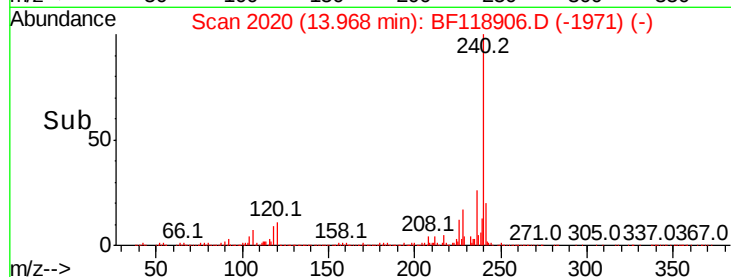
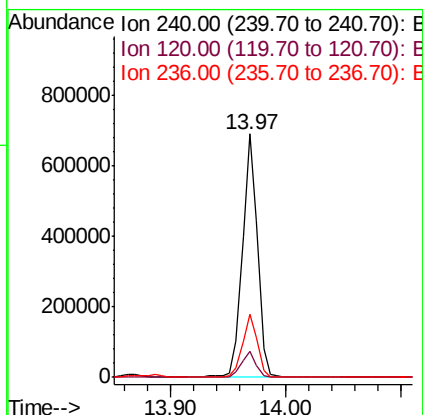
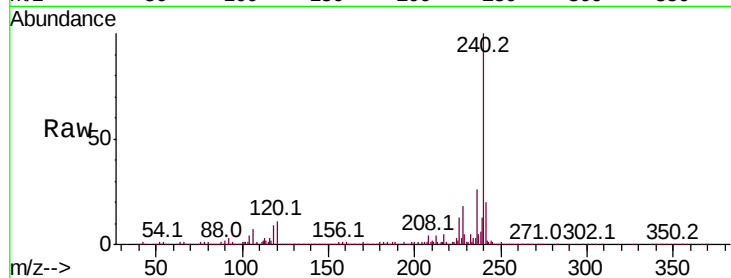




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

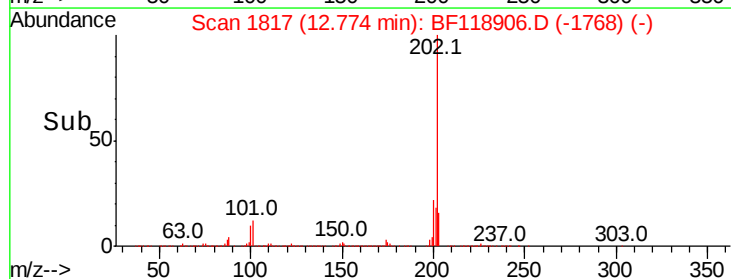
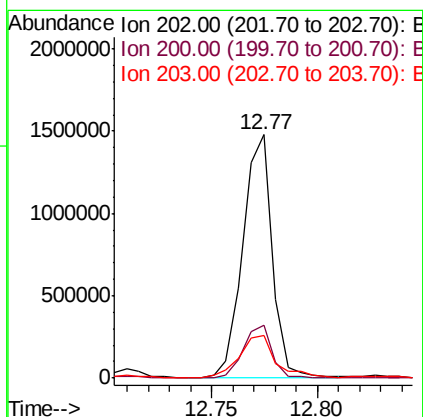
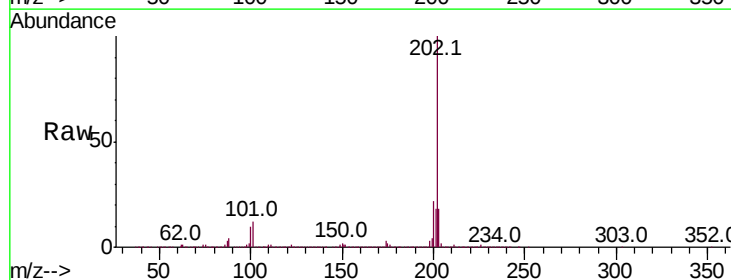
Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5DL

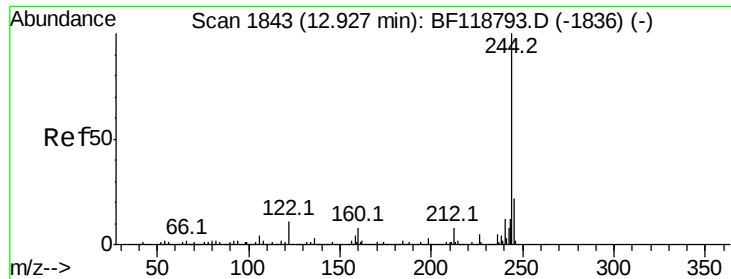
Tot Ion:240 Resp: 622161
Ion Ratio Lower Upper
240 100
120 10.6 9.4 14.0
236 26.2 21.0 31.6



#78
Pyrene
Concen: 33.294 ng
RT: 12.77 min Scan# 1817
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion:202 Resp: 1421063
Ion Ratio Lower Upper
202 100
200 21.8 18.2 27.2
203 17.5 14.8 22.2





#79

Terphenyl-d14

Concen: 1.373 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

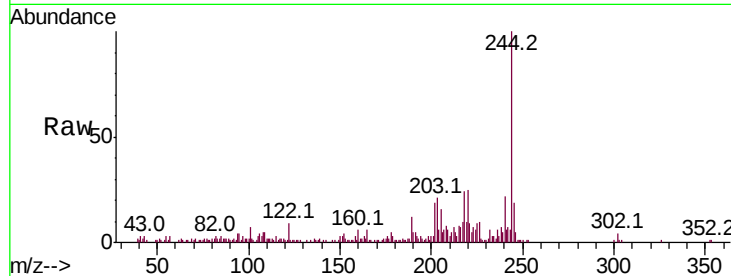
Tot Ion:244 Resp: 41585

Ion Ratio Lower Upper

244 100

212 7.2 6.5 9.7

122 8.6 8.9 13.3#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

60000

50000

40000

30000

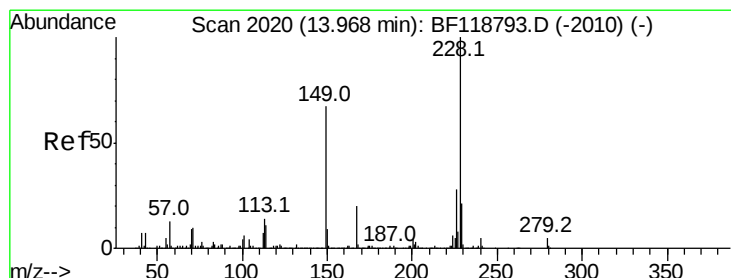
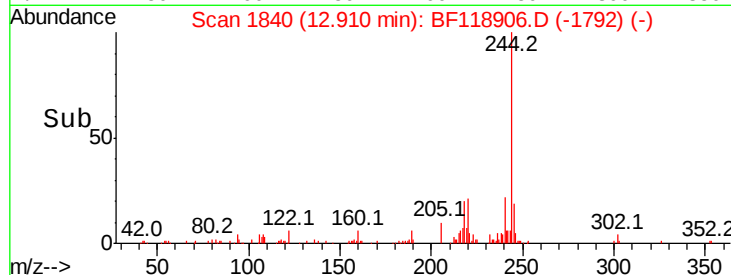
20000

10000

0

12.91

Time--> 12.85 12.90 12.95



#81

Benzo(a)anthracene

Concen: 11.468 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

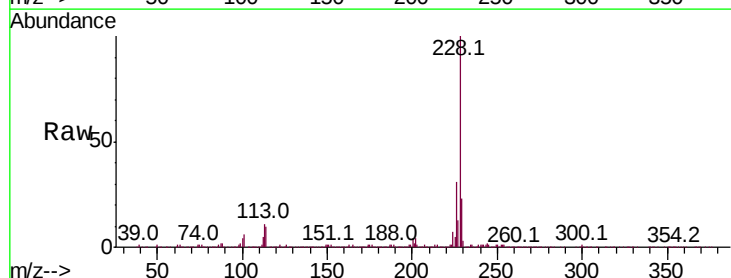
Tgt Ion:228 Resp: 424573

Ion Ratio Lower Upper

228 100

226 30.6 22.7 34.1

229 23.1 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

600000

500000

400000

300000

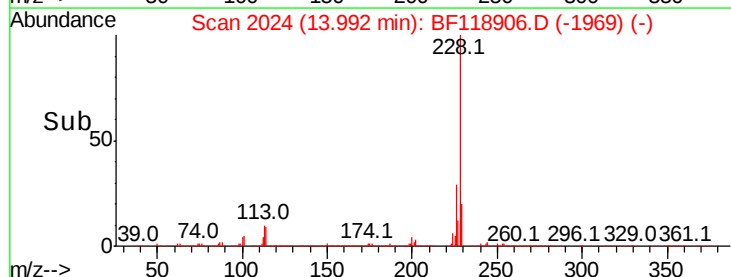
200000

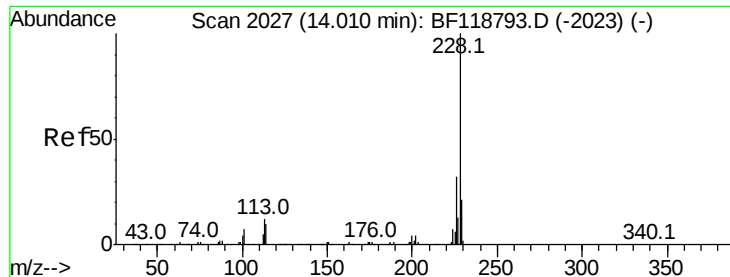
100000

0

13.99

Time--> 13.95 14.00 14.05





#83

Chrysene

Concen: 11.426 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

Instrument :

BNA_F

ClientSampleId :

TP11-EP1-2.5DL

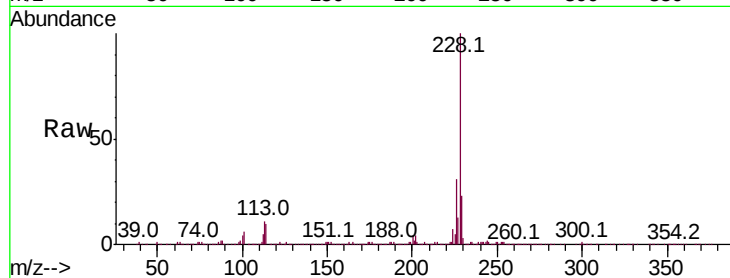
Tot Ion:228 Resp: 424573

Ion Ratio Lower Upper

228 100

226 30.6 25.4 38.0

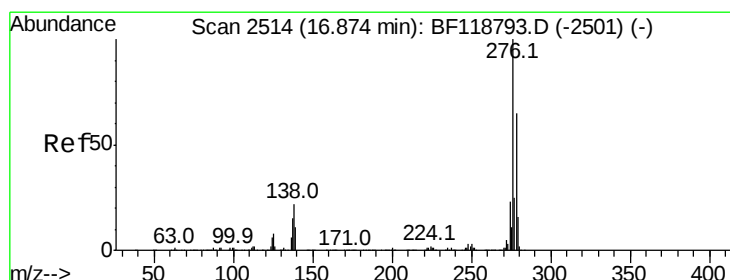
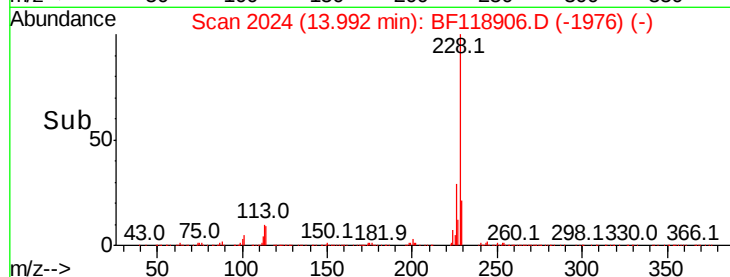
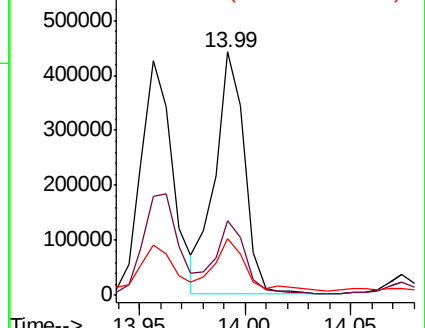
229 23.1 16.9 25.3



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.522 ng

RT: 16.85 min Scan# 2510

Delta R.T. -0.02 min

Lab File: BF118906.D

Acq: 12 Feb 2020 1:49

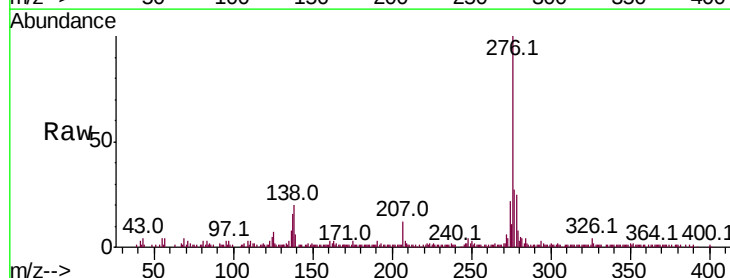
Tgt Ion:276 Resp: 131485

Ion Ratio Lower Upper

276 100

138 20.0 18.3 27.5

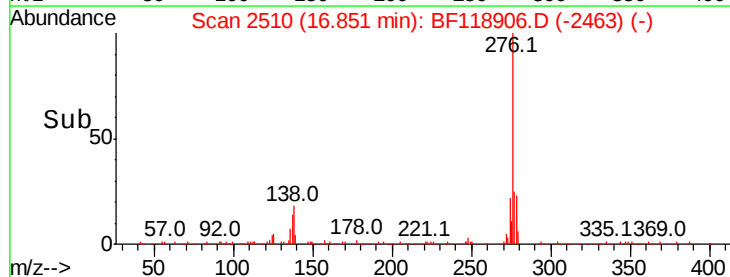
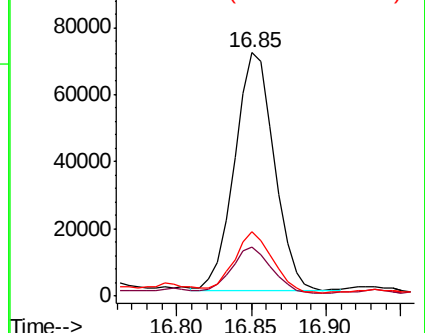
277 24.7 20.2 30.4

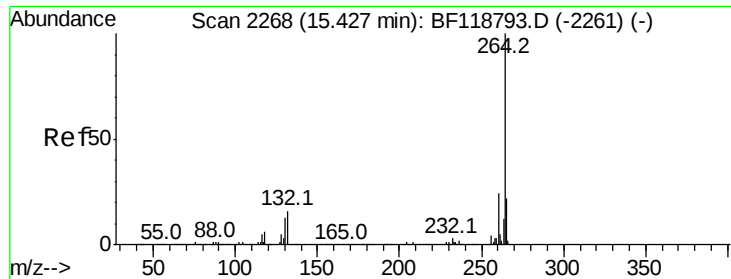


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



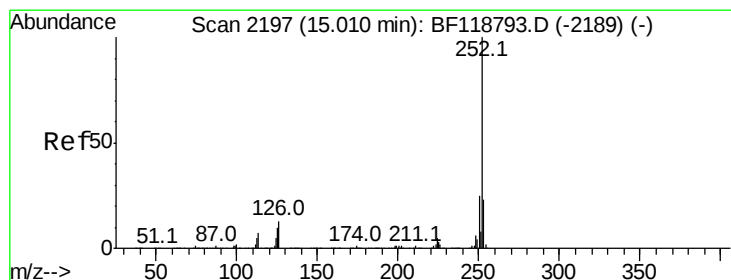
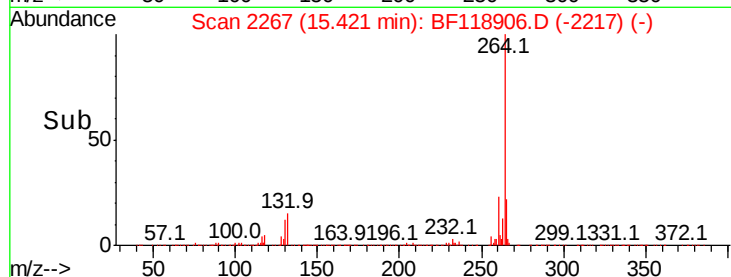
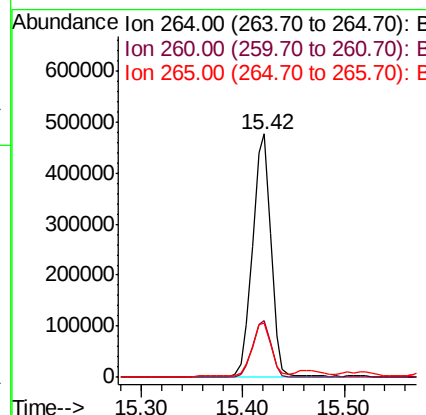
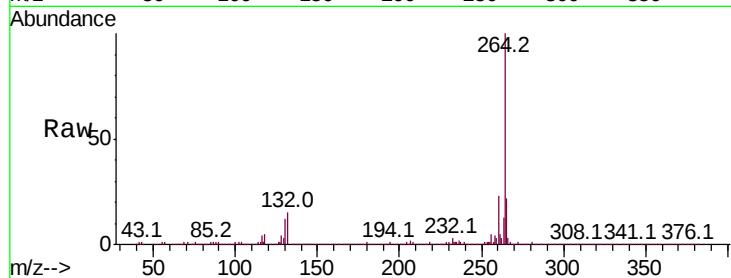


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5DL

Tot Ion:264 Resp: 602520

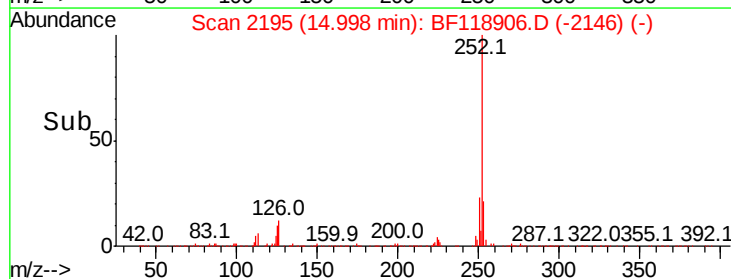
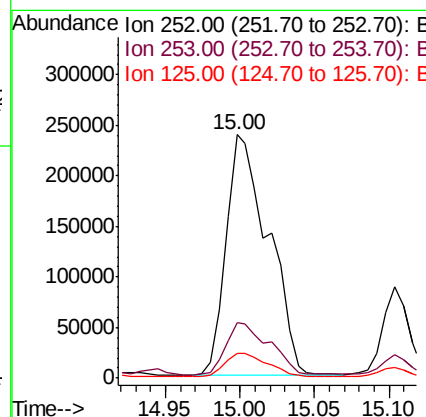
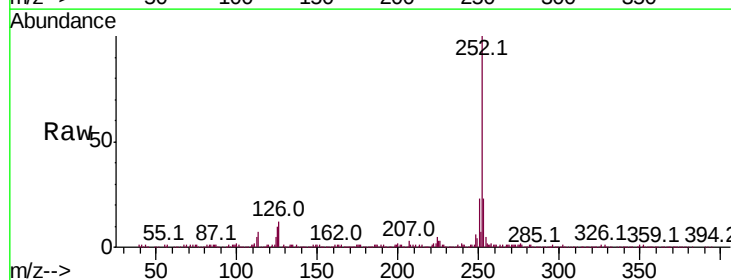
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.1	28.7
265	22.4	17.2	25.8

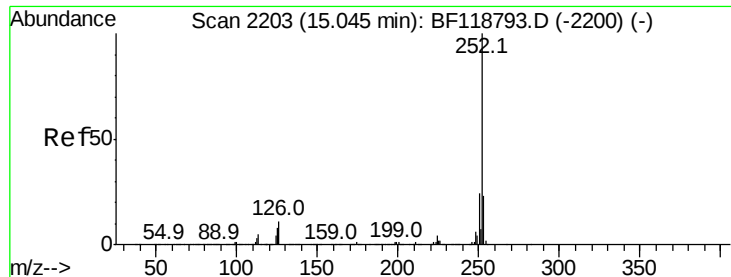


#88
Benzo(b)fluoranthene
Concen: 12.658 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion:252 Resp: 473239

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.4	27.6
125	10.0	8.1	12.1

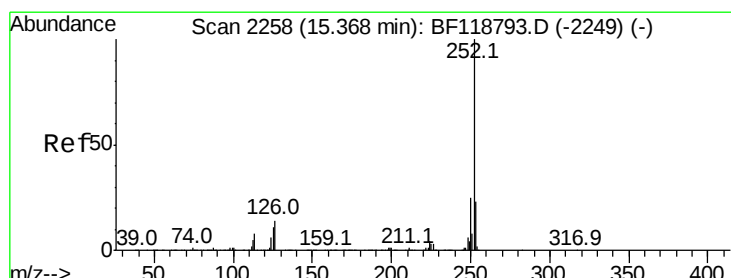
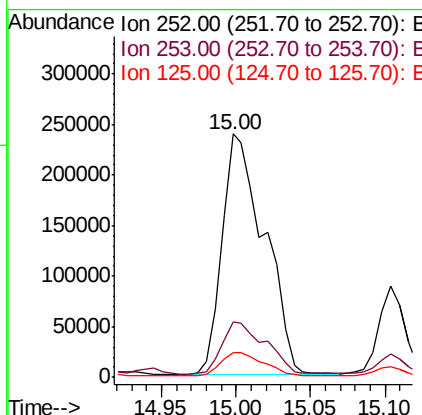
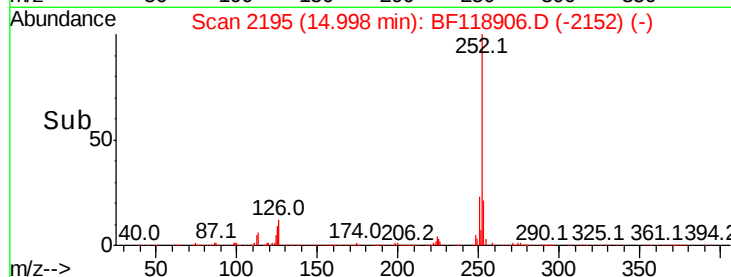
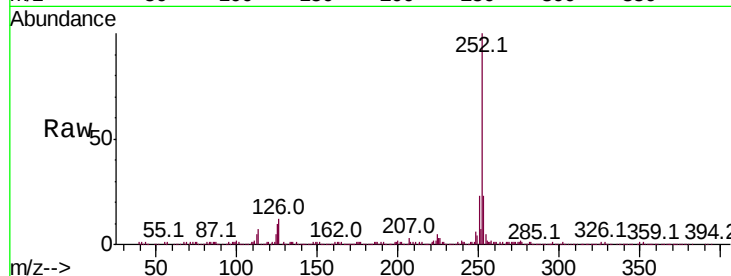




#89
Benzo(k)fluoranthene
Concen: 14.536 ng
RT: 15.00 min Scan# 2195
Delta R.T. -0.05 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

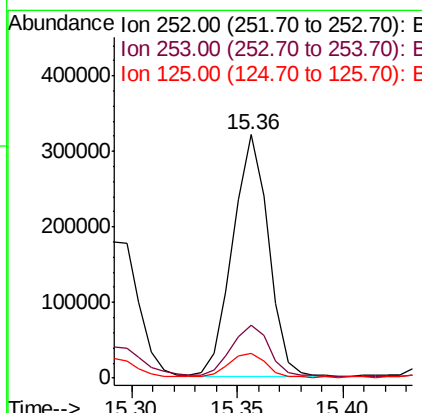
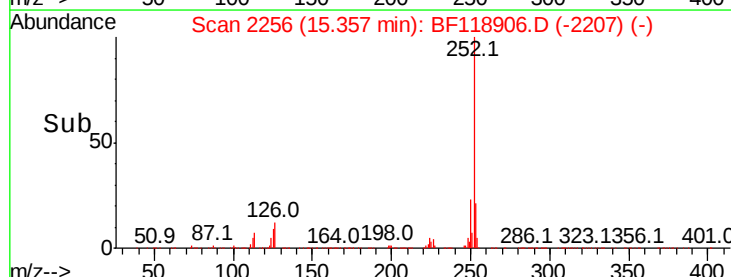
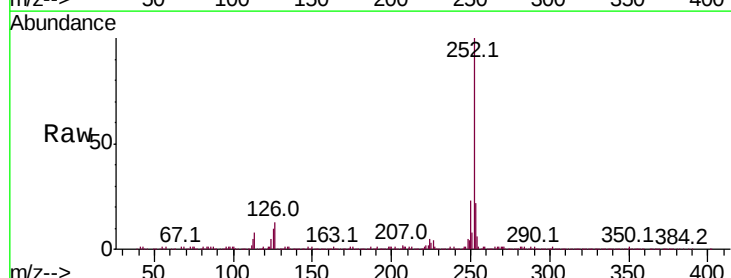
Instrument :
BNA_F
ClientSampleId :
TP11-EP1-2.5DL

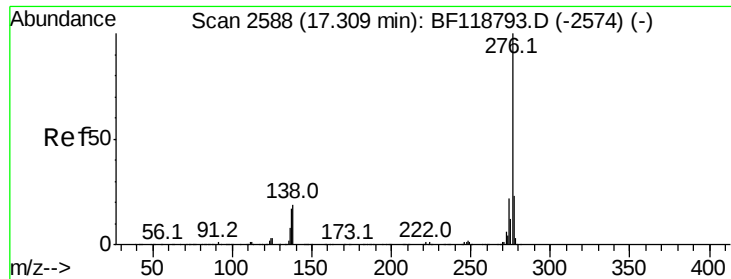
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.4
125	10.0	7.0	10.6



#90
Benzo(a)pyrene
Concen: 11.700 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF118906.D
Acq: 12 Feb 2020 1:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	10.0	8.7	13.1





#92
 Benzo(a,h,i)perylene
 Concen: 4.983 ng
 RT: 17.29 min Scan# 2585
 Delta R.T. -0.02 min
 Lab File: BF118906.D
 Acq: 12 Feb 2020 1:49

Instrument :
 BNA_F
 ClientSampleId :
 TP11-EP1-2.5DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.7	28.1
138	21.8	15.4	23.2

