

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121122.D
 Acq On : 30 Jul 2020 1:34
 Operator : JU/CG
 Sample : L3436-05 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 5

Quant Time: Jul 30 03:11:05 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	185640	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	655354	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	311422	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	552417	20.00	ng	0.01
76) Chrysene-d12	13.97	240	458397	20.00	ng	0.01
86) Perylene-d12	15.43	264	359498	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	163250	14.42	ng	0.00
7) Phenol-d6	6.45	99	192657	13.17	ng	0.00
23) Nitrobenzene-d5	7.36	82	99097	8.75	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	41122	12.06	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	220733	10.58	ng	0.00
79) Terphenyl-d14	12.92	244	217372	10.31	ng	0.00

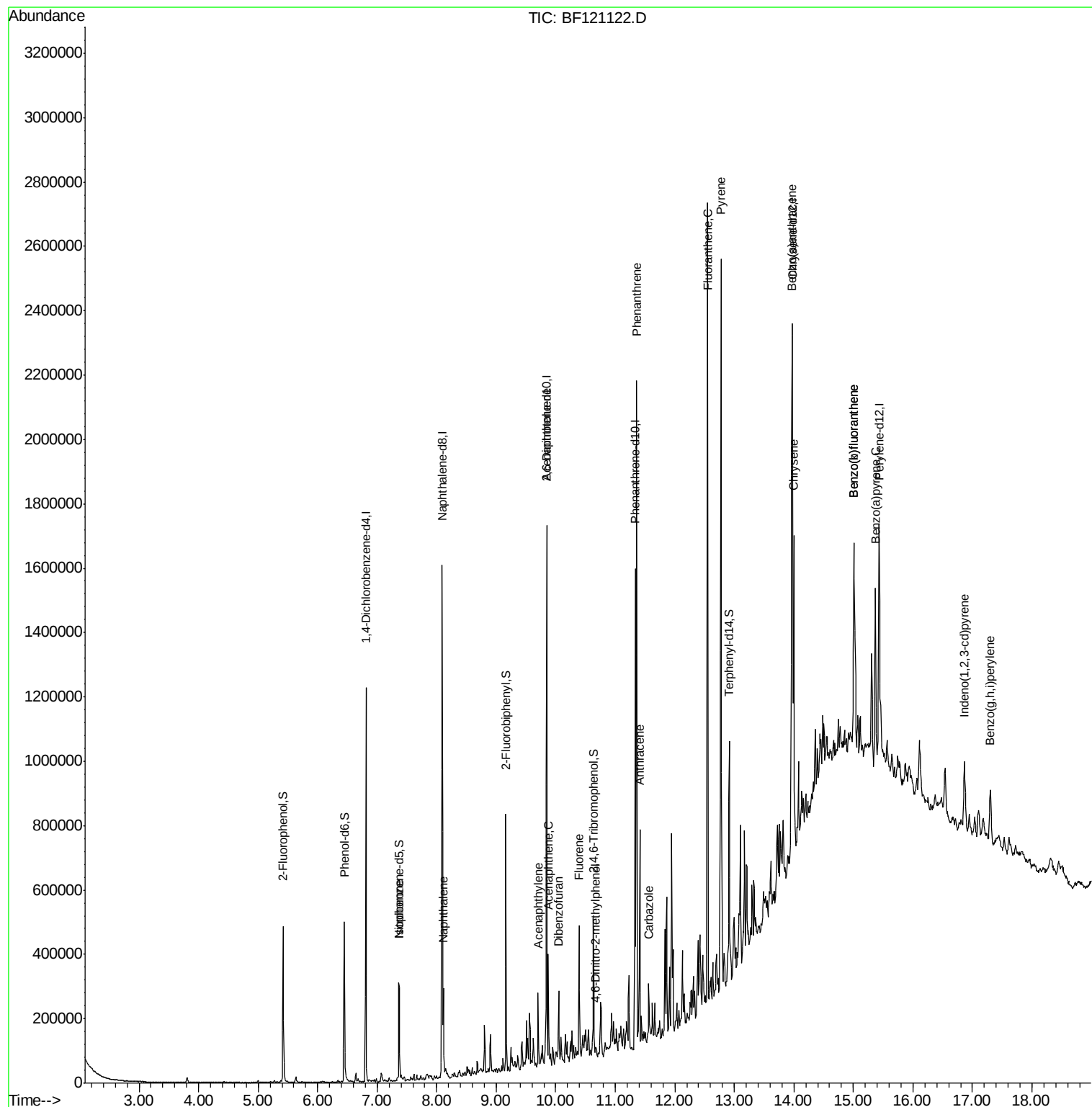
Target Compounds				Qvalue		
9) Benzaldehyde	6.36	77	598	Below Cal	#	1
25) Isophorone	7.36	82	95510	4.225 ng	#	63
31) Naphthalene	8.11	128	106982	3.182 ng		99
49) Acenaphthylene	9.70	152	76107	2.529 ng		98
51) 2,6-Dinitrotoluene	9.85	165	43871	9.089 ng	#	27
52) Acenaphthene	9.87	154	71580	3.742 ng		98
55) Dibenzofuran	10.05	168	67409	2.437 ng		96
58) Fluorene	10.39	166	104881	5.084 ng		99
65) 4,6-Dinitro-2-methylphenol	10.66	198	568	4.006 ng	#	1
71) Phenanthrene	11.36	178	706817	24.878 ng		99
72) Anthracene	11.41	178	270022	9.465 ng		99
73) Carbazole	11.56	167	60658	2.142 ng		99
75) Fluoranthene	12.55	202	1043857	33.147 ng		99
78) Pyrene	12.78	202	1020991	31.503 ng		99
81) Benzo(a)anthracene	13.96	228	460542	16.591 ng		97
83) Chrysene	14.00	228	405568	13.903 ng		97
87) Indeno(1,2,3-cd)pyrene	16.87	276	146188	5.847 ng		97
88) Benzo(b)fluoranthene	15.01	252	505061	23.242 ng	#	95
89) Benzo(k)fluoranthene	15.01	252	505061	25.485 ng	#	95
90) Benzo(a)pyrene	15.37	252	271393	13.689 ng		98
92) Benzo(a,h,i)perylene	17.30	276	140355	6.970 ng		96

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

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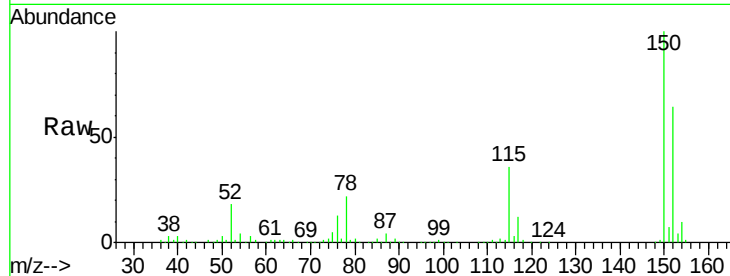


#1

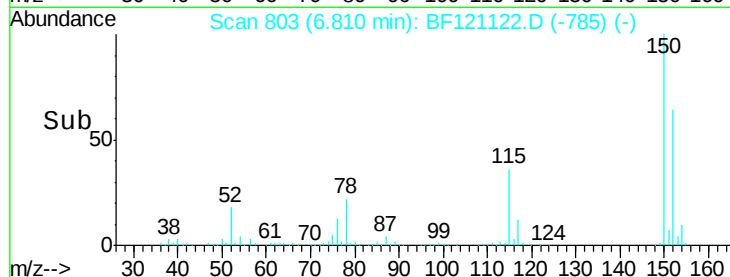
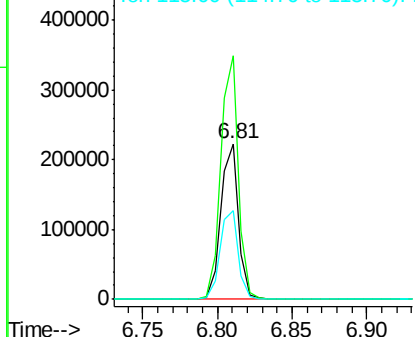
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Instrument :
BNA_F
ClientSampleId :
5

Tot Ion:152 Resp: 185640
Ion Ratio Lower Upper
152 100
150 156.5 125.6 188.4
115 56.8 46.2 69.2



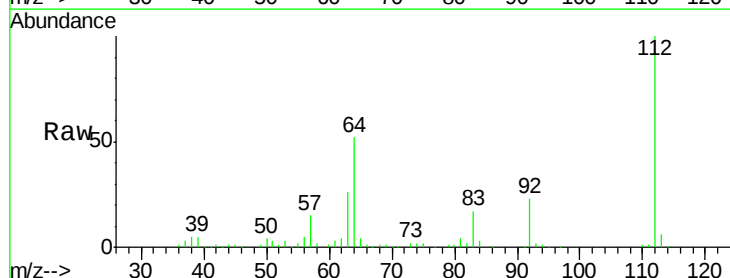
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



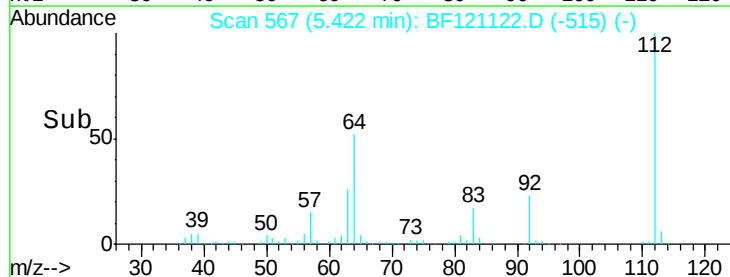
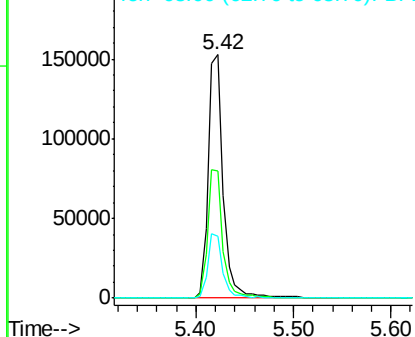
#5

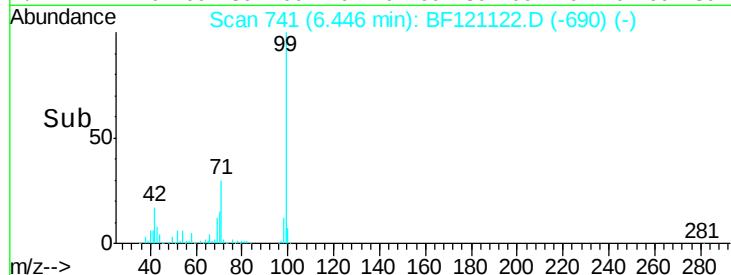
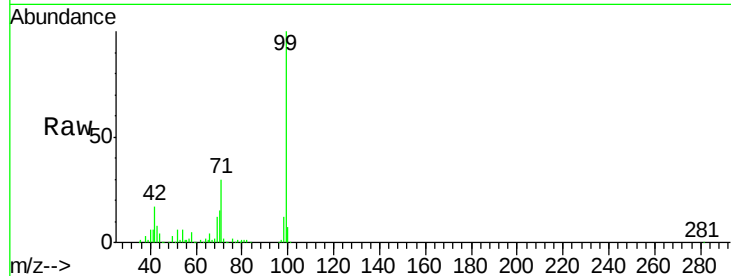
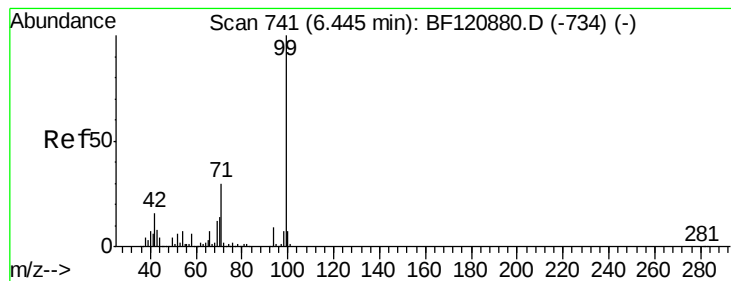
2-Fluorophenol
Concen: 14.416 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Tgt Ion:112 Resp: 163250
Ion Ratio Lower Upper
112 100
64 52.5 43.9 65.9
63 25.6 22.7 34.1



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: 13.171 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

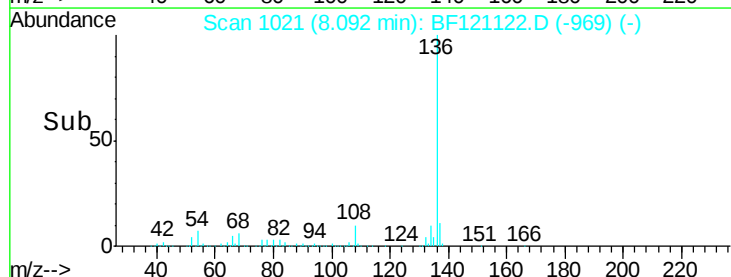
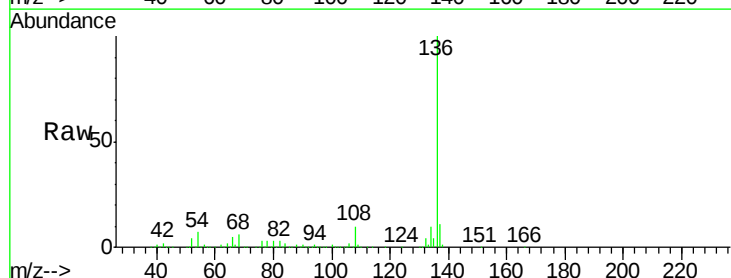
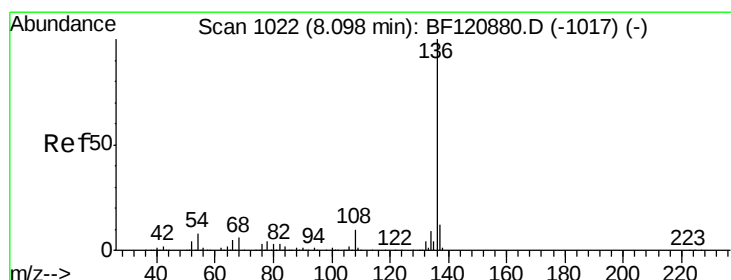
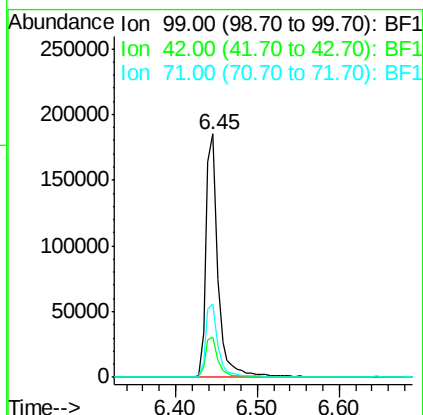
Tot Ion: 99 Resp: 192657

Ion Ratio Lower Upper

99 100

42 16.5 13.5 20.3

71 30.2 25.0 37.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Tgt Ion: 136 Resp: 655354

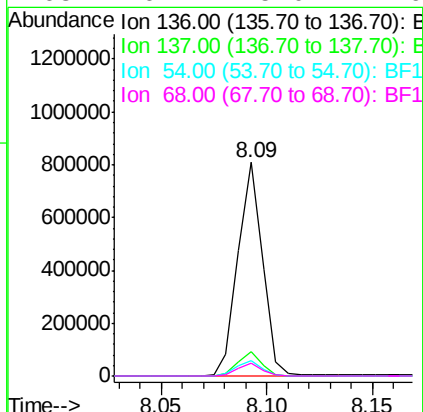
Ion Ratio Lower Upper

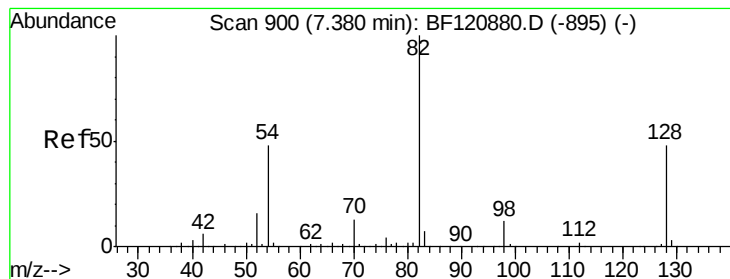
136 100

137 11.3 9.0 13.4

54 7.3 6.1 9.1

68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 8.750 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

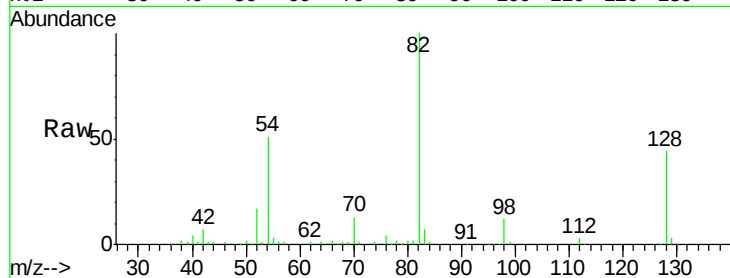
Tot Ion: 82 Resp: 99097

Ion Ratio Lower Upper

82 100

128 43.7 39.2 58.8

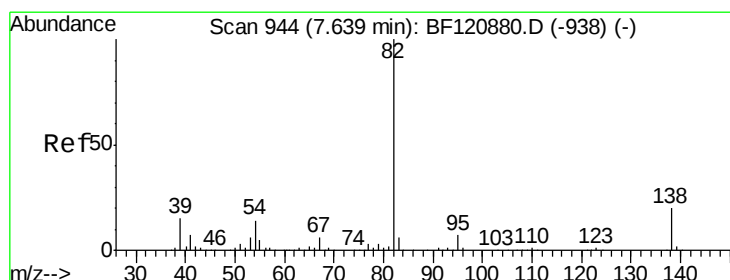
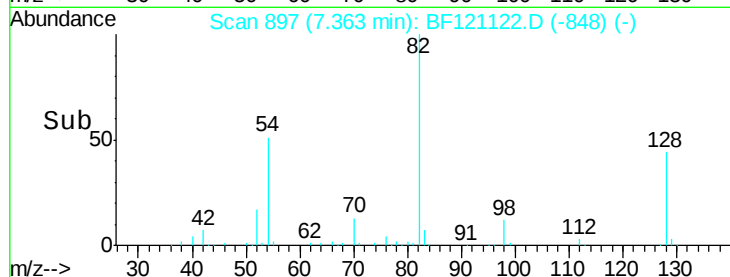
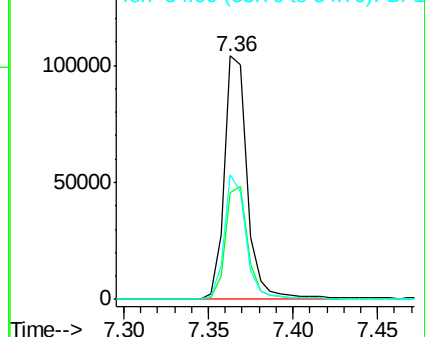
54 51.0 37.8 56.8



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 4.225 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.27 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

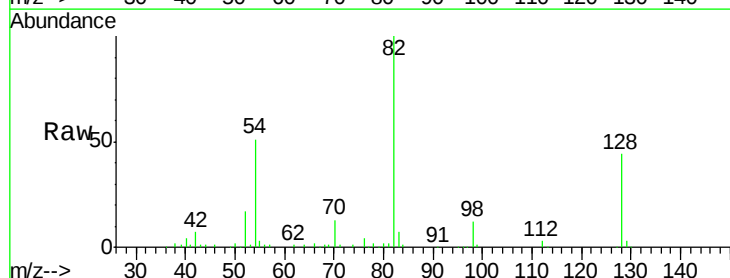
Tgt Ion: 82 Resp: 95510

Ion Ratio Lower Upper

82 100

95 0.4 5.5 8.3#

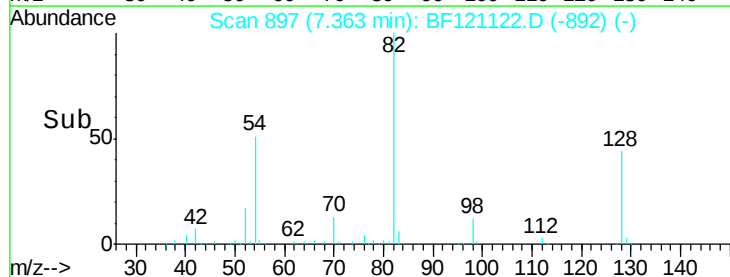
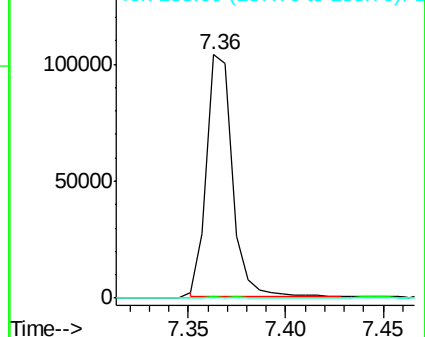
138 0.0 16.2 24.2#

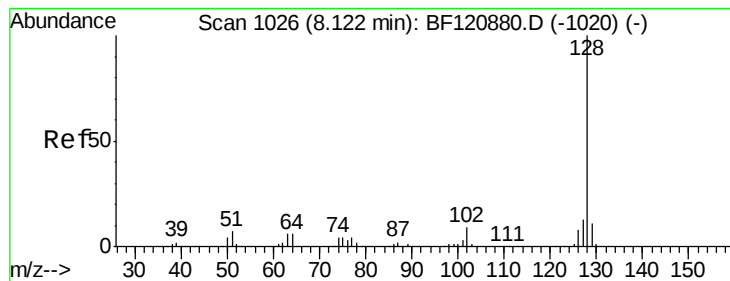


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 3.182 ng

RT: 8.11 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

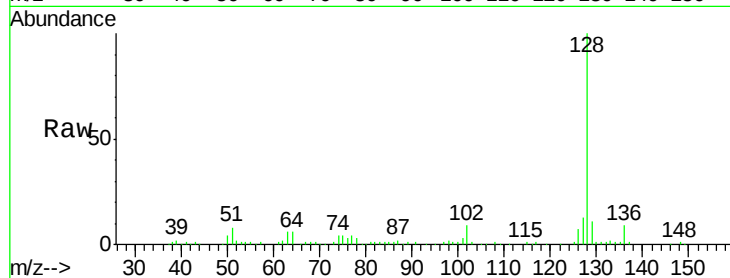
Tot Ion:128 Resp: 106982

Ion Ratio Lower Upper

128 100

129 11.2 9.3 13.9

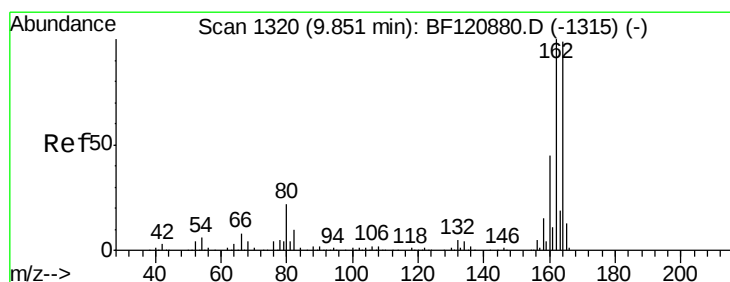
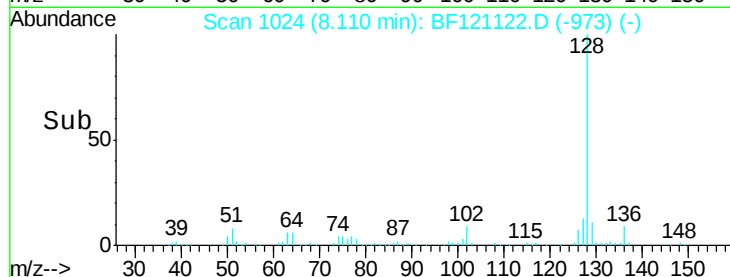
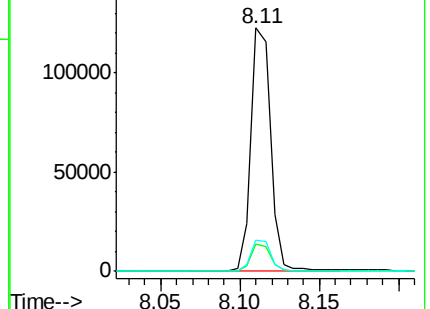
127 13.0 10.8 16.2



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

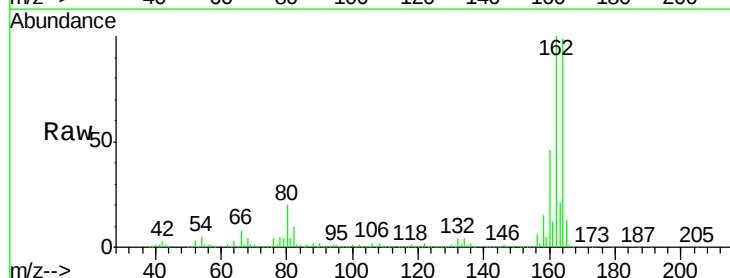
Tgt Ion:164 Resp: 311422

Ion Ratio Lower Upper

164 100

162 101.5 82.2 123.2

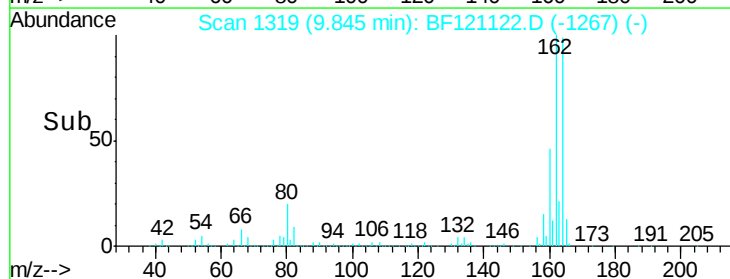
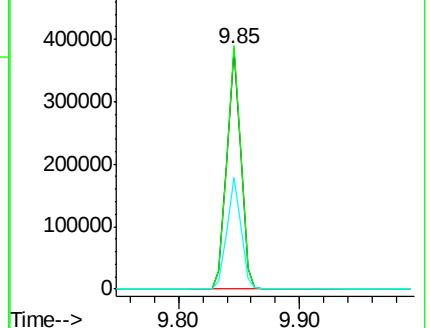
160 46.8 37.2 55.8

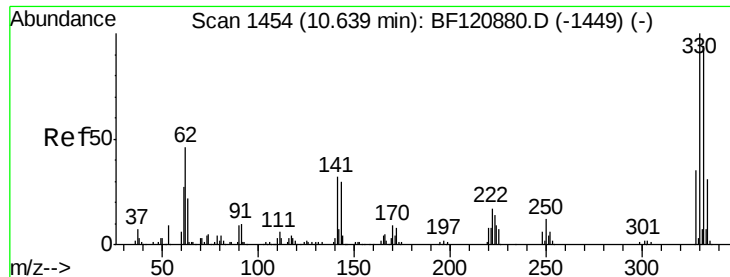


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 12.063 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

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ClientSampleId :

5

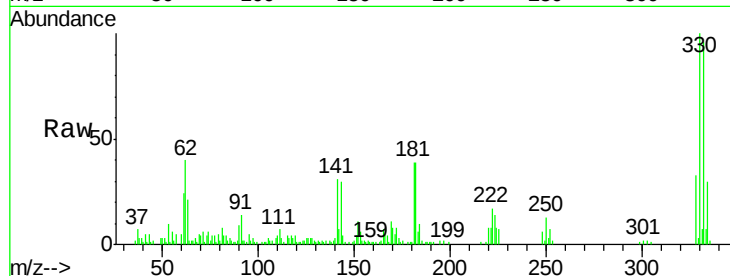
Tot Ion:330 Resp: 41122

Ion Ratio Lower Upper

330 100

332 95.5 76.1 114.1

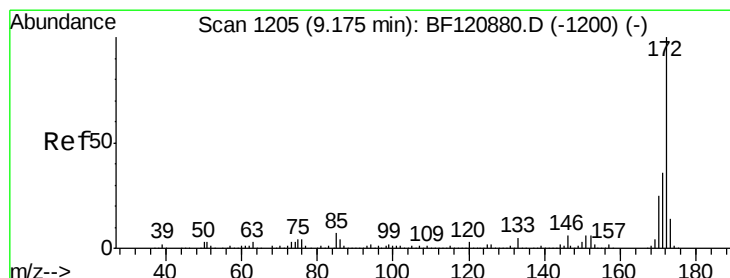
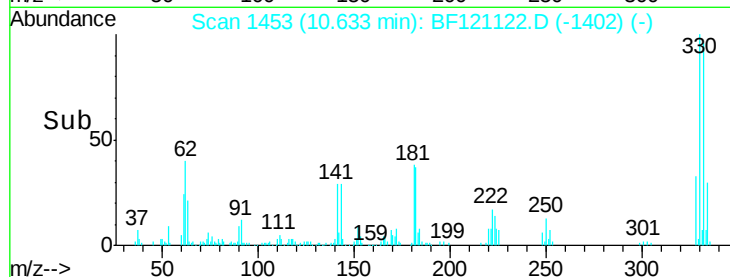
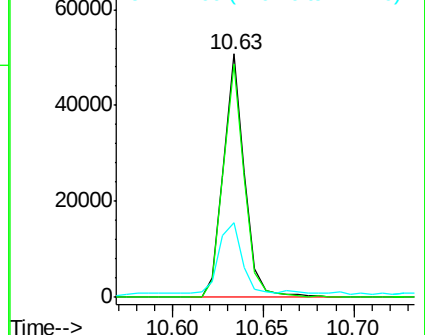
141 35.9 24.1 36.1



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: 10.583 ng

RT: 9.16 min Scan# 1203

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

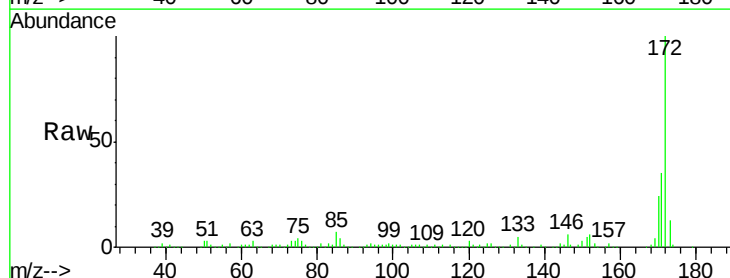
Tgt Ion:172 Resp: 220733

Ion Ratio Lower Upper

172 100

171 35.1 29.0 43.4

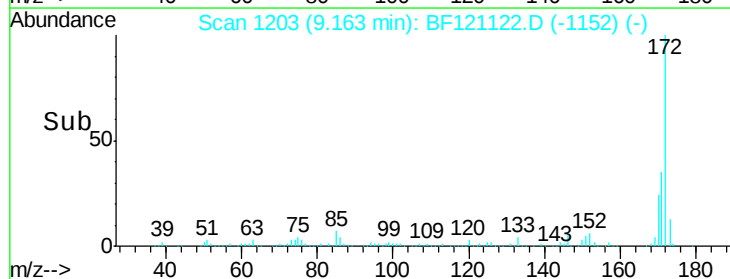
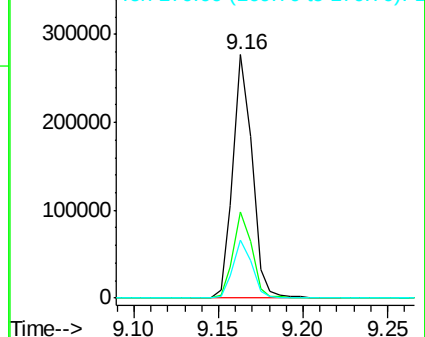
170 23.9 19.6 29.4

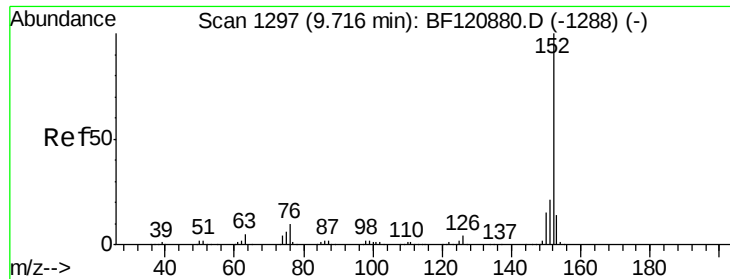


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.529 ng

RT: 9.70 min Scan# 1295

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

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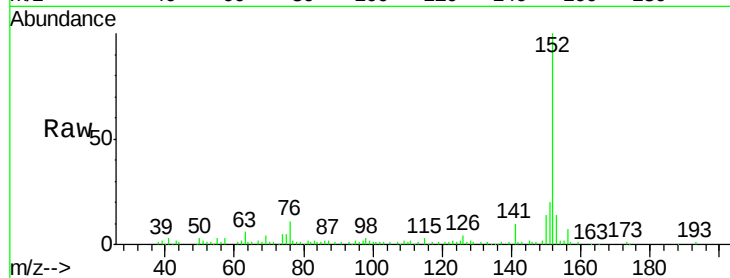
Tot Ion:152 Resp: 76107

Ion Ratio Lower Upper

152 100

151 19.9 16.6 25.0

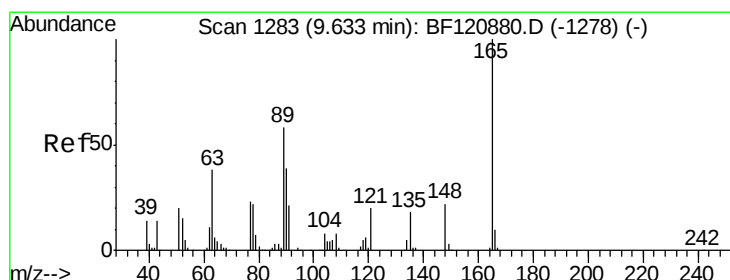
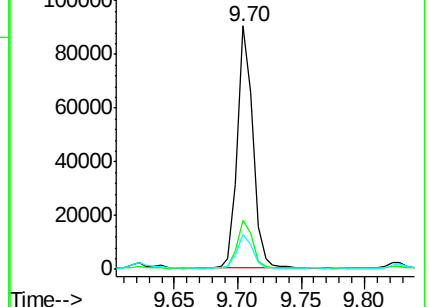
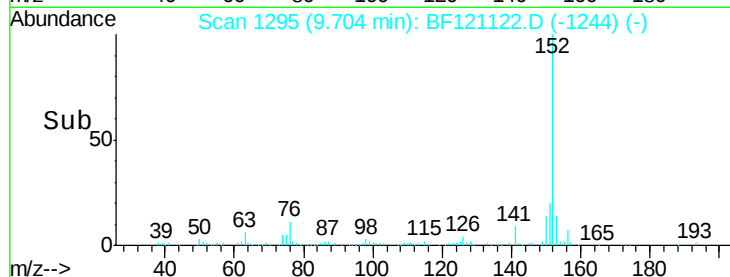
153 14.4 11.0 16.4



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: 9.089 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.22 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

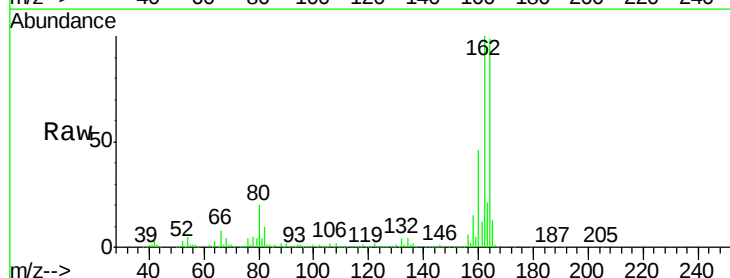
Tgt Ion:165 Resp: 43871

Ion Ratio Lower Upper

165 100

63 1.3 41.1 61.7#

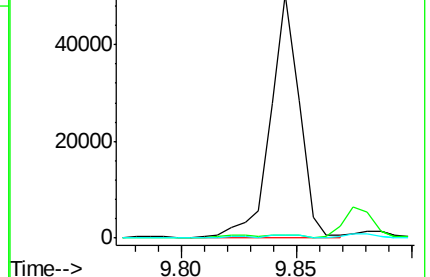
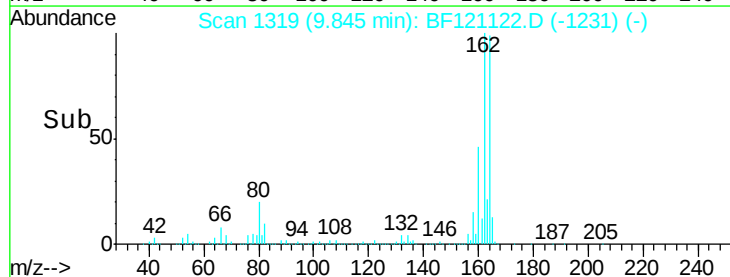
89 1.2 43.5 65.3#

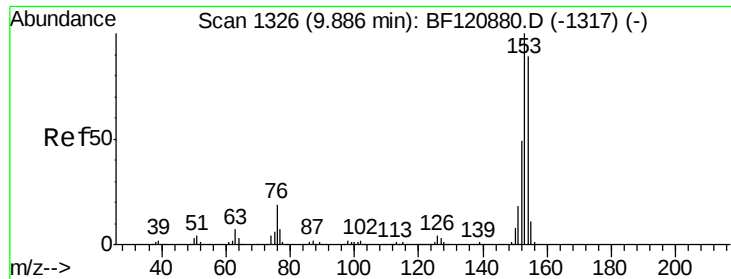


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 3.742 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

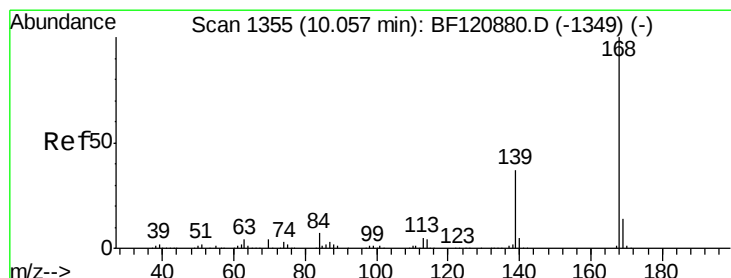
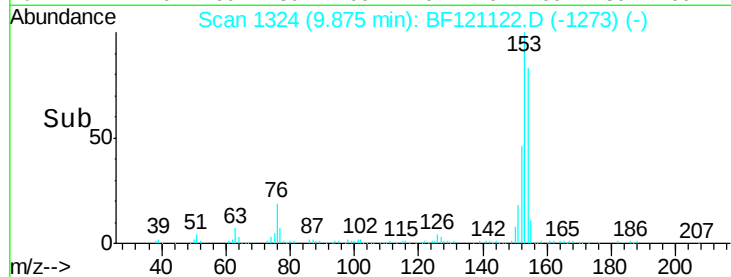
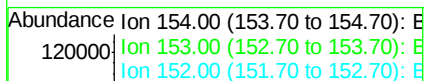
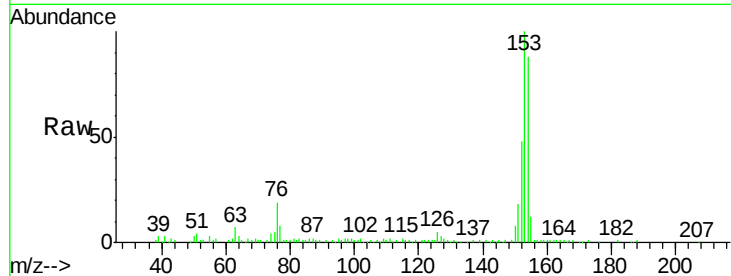
Tot Ion:154 Resp: 71580

Ion Ratio Lower Upper

154 100

153 114.3 89.6 134.4

152 54.4 43.8 65.6



#55

Dibenzofuran

Concen: 2.437 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

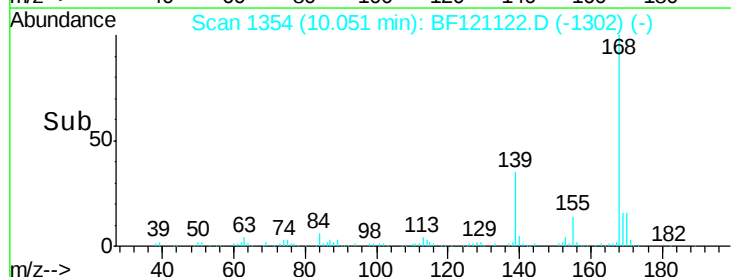
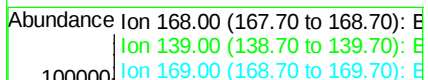
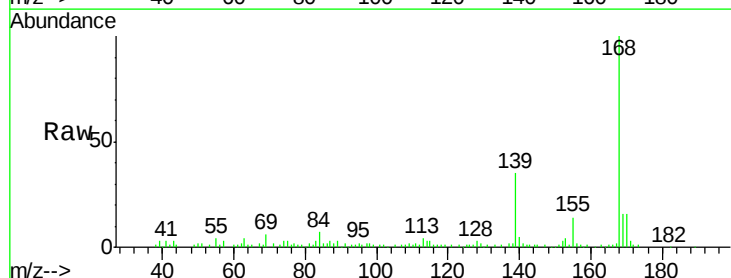
Tgt Ion:168 Resp: 67409

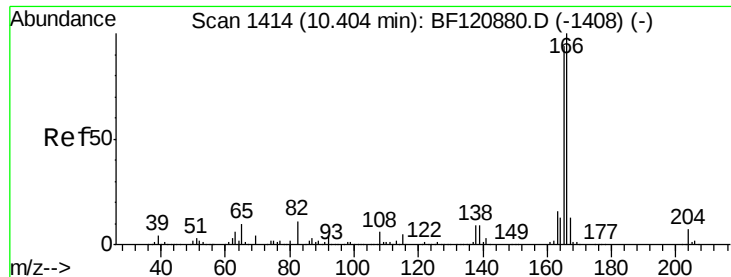
Ion Ratio Lower Upper

168 100

139 34.8 30.1 45.1

169 15.7 11.3 16.9





#58

Fluorene

Concen: 5.084 ng

RT: 10.39 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

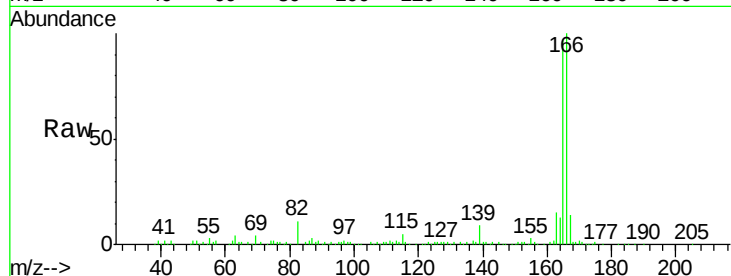
Tot Ion:166 Resp: 104881

Ion Ratio Lower Upper

166 100

165 96.8 76.4 114.6

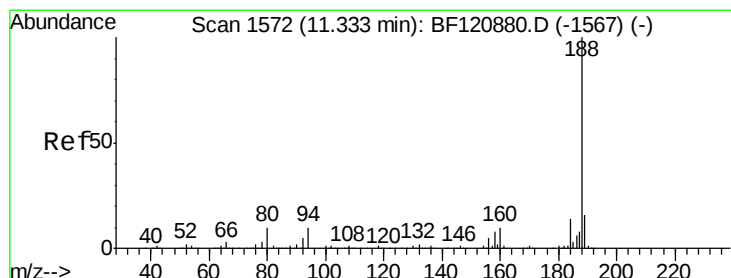
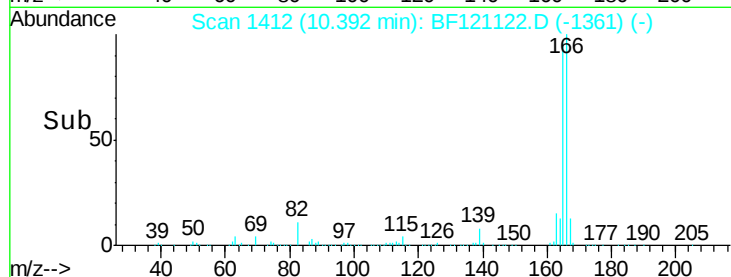
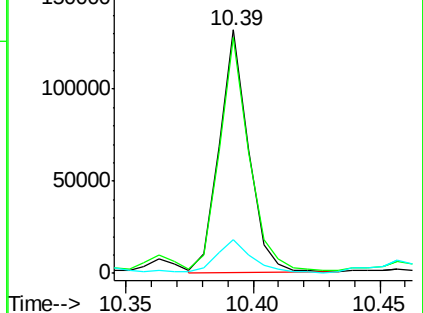
167 14.0 10.7 16.1



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# 1572

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

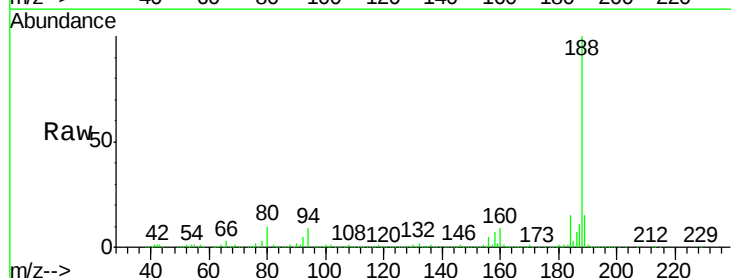
Tgt Ion:188 Resp: 552417

Ion Ratio Lower Upper

188 100

94 8.9 8.0 12.0

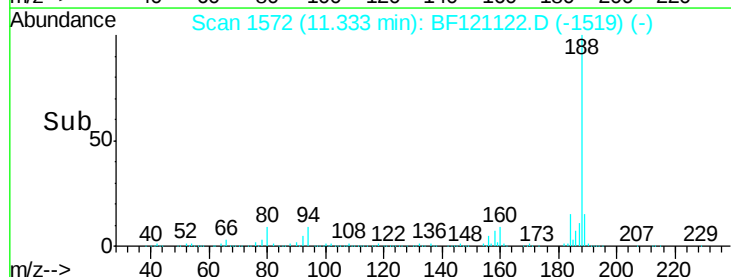
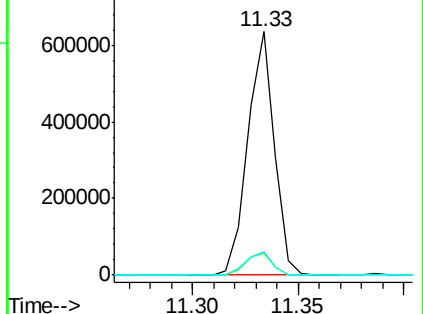
80 9.6 8.3 12.5

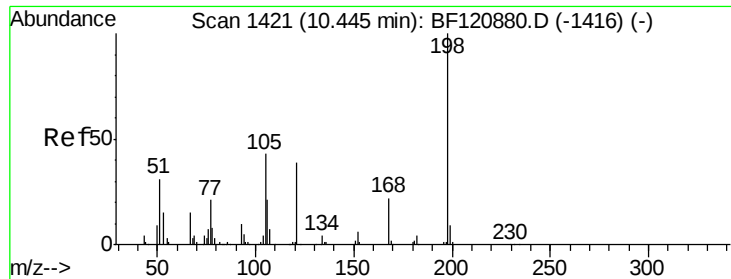


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 4.006 ng

RT: 10.66 min Scan# 1457

Delta R.T. 0.22 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampled :

5

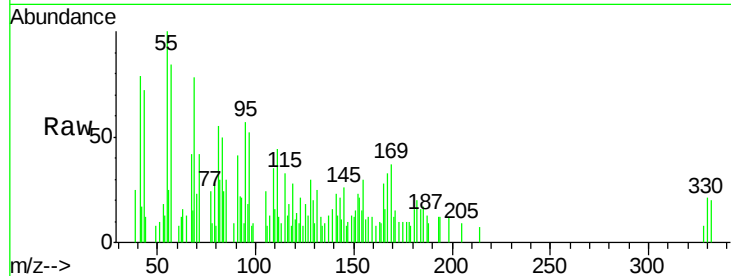
Tot Ion:198 Resp: 568

Ion Ratio Lower Upper

198 100

51 81.1 23.4 63.4#

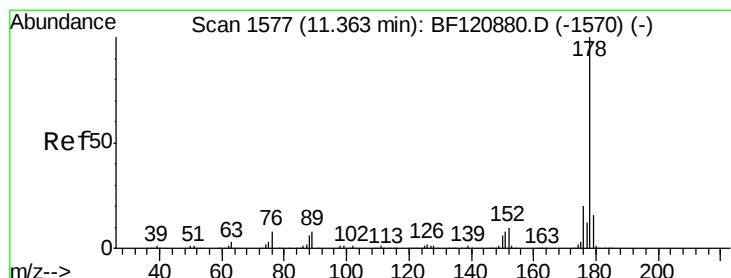
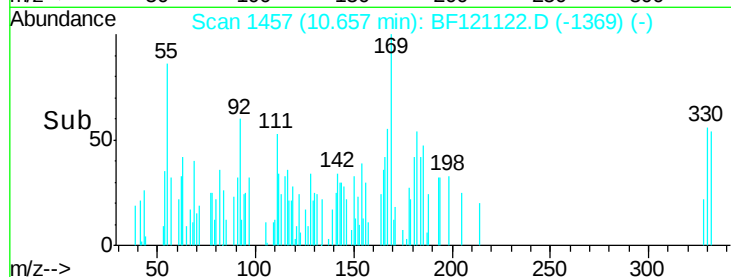
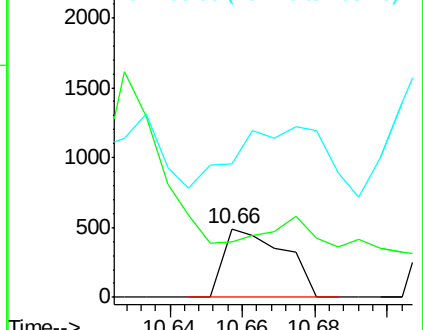
105 194.5 23.7 63.7#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#71

Phenanthrene

Concen: 24.878 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

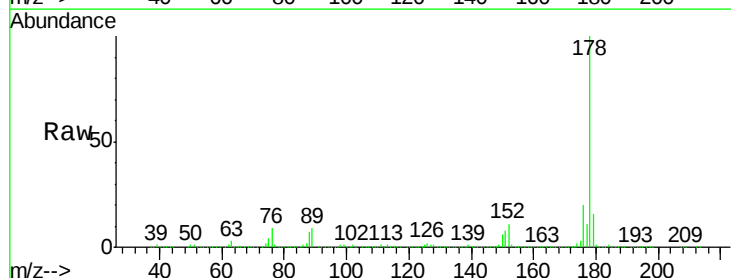
Tgt Ion:178 Resp: 706817

Ion Ratio Lower Upper

178 100

176 19.8 16.2 24.2

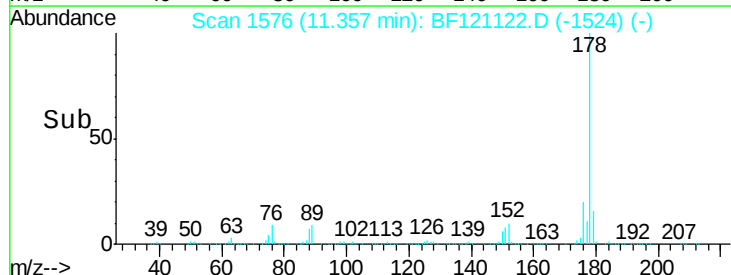
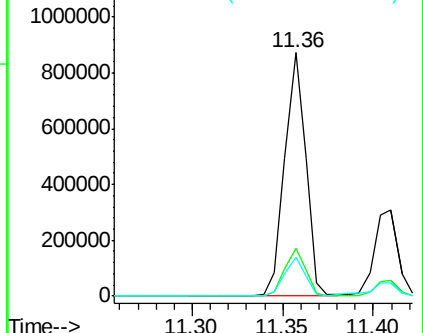
179 15.8 12.6 19.0

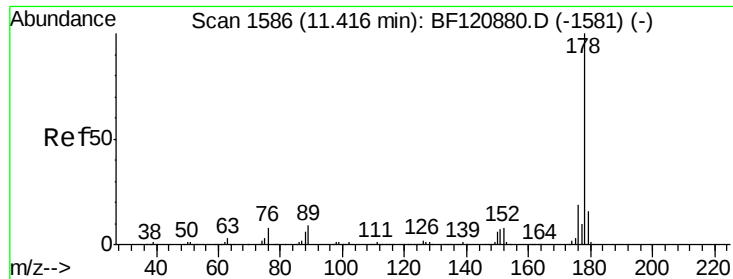


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

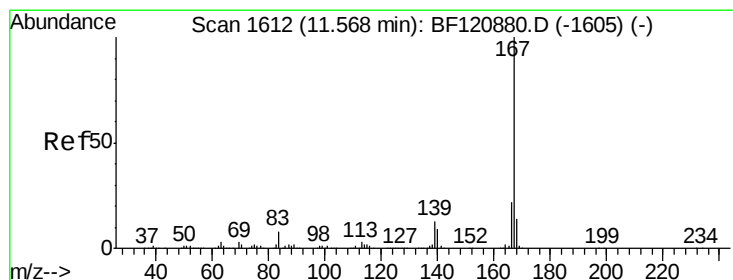
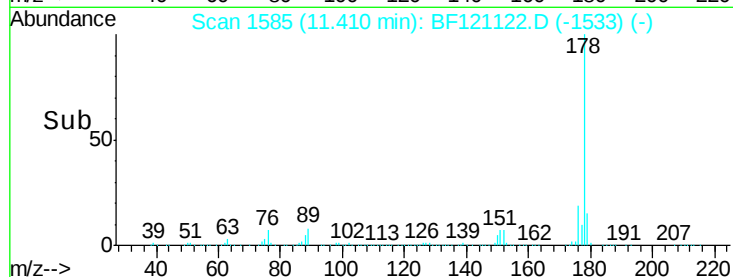
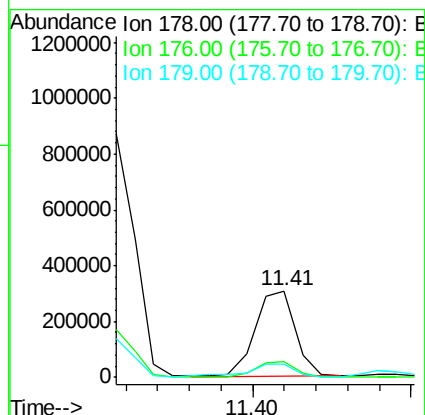
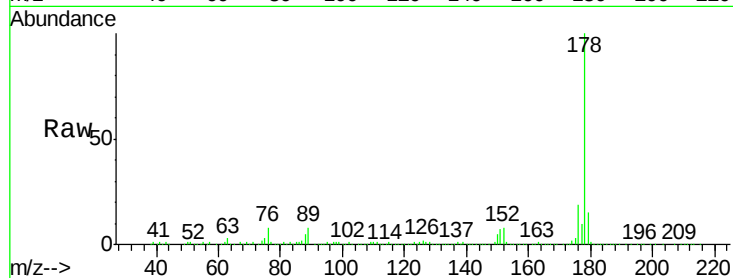




#72
 Anthracene
 Concen: 9.465 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: BF121122.D
 Acq: 30 Jul 2020 1:34

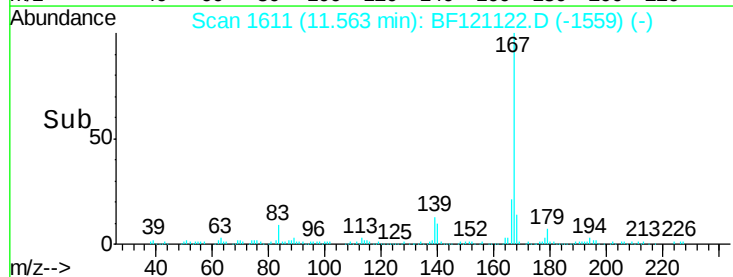
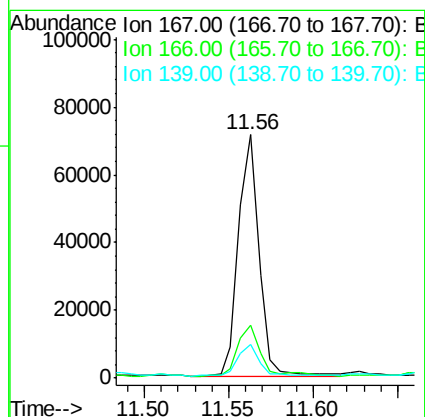
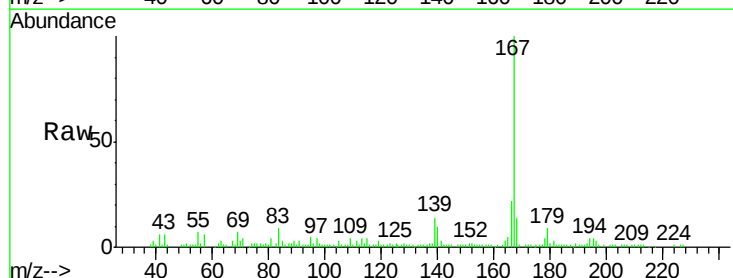
Instrument :
 BNA_F
 ClientSampleId :
 5

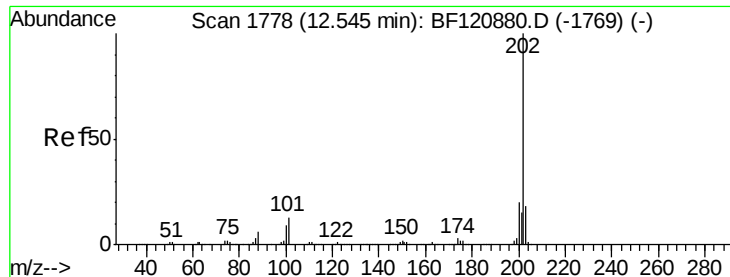
Tot Ion:178 Resp: 270022
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.8
 179 15.5 12.6 19.0



#73
 Carbazole
 Concen: 2.142 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. 0.01 min
 Lab File: BF121122.D
 Acq: 30 Jul 2020 1:34

Tgt Ion:167 Resp: 60658
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.5 26.3
 139 14.1 10.5 15.7





#75

Fluoranthene

Concen: 33.147 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

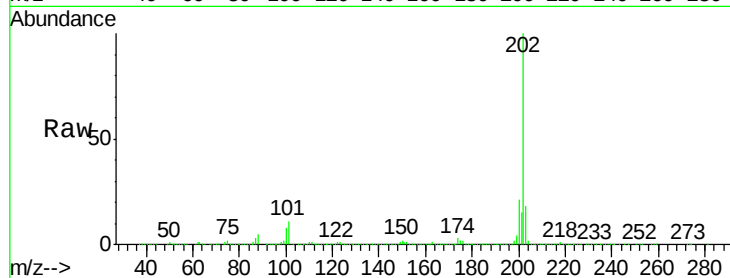
BNA_F

ClientSampleId :

5

Tot Ion:202 Resp: 1043857

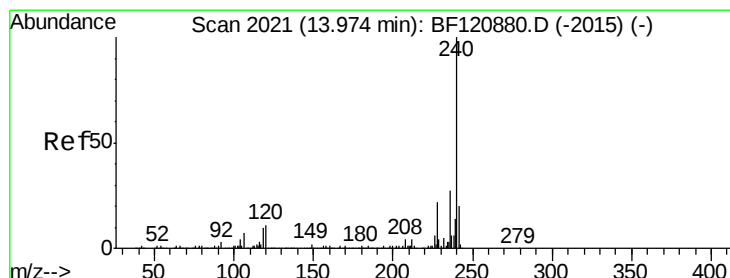
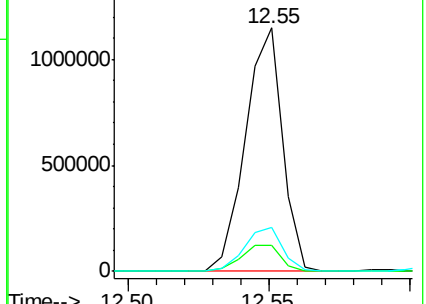
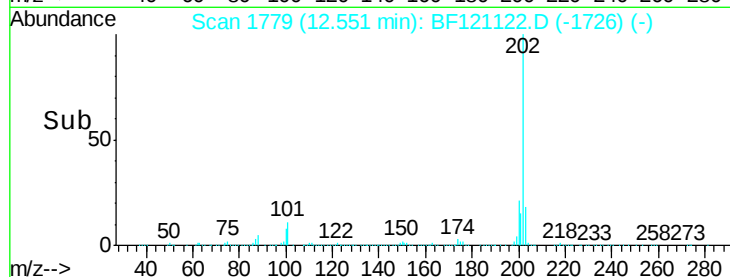
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	30.5
203	18.1	0.0	37.7



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# 2021

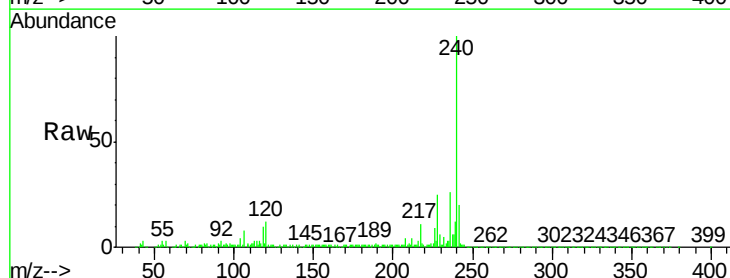
Delta R.T. 0.01 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Tgt Ion:240 Resp: 458397

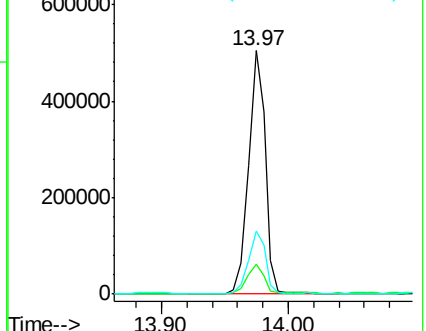
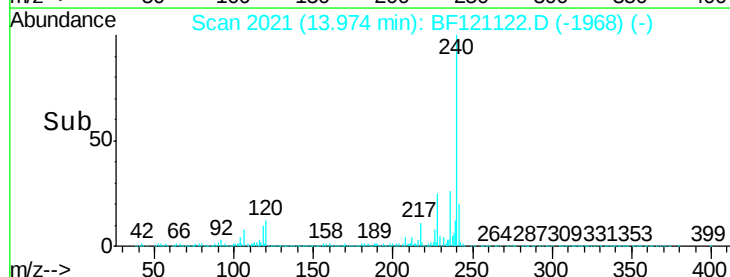
Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.3	13.9
236	26.0	21.1	31.7

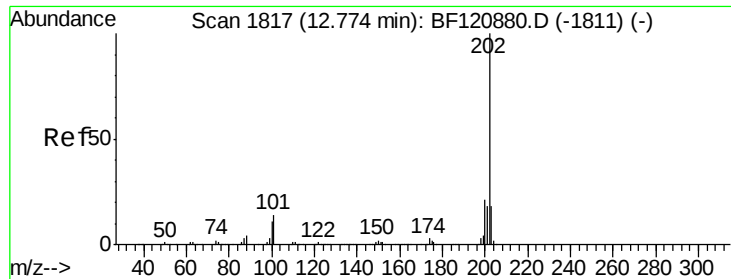


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

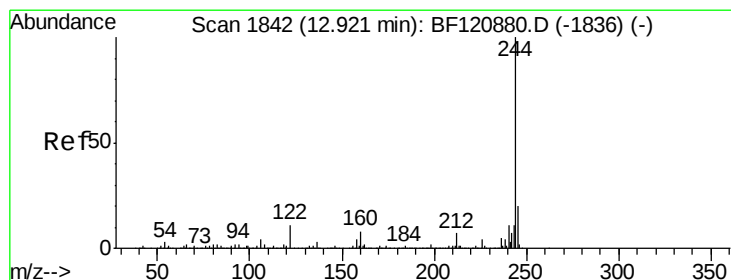
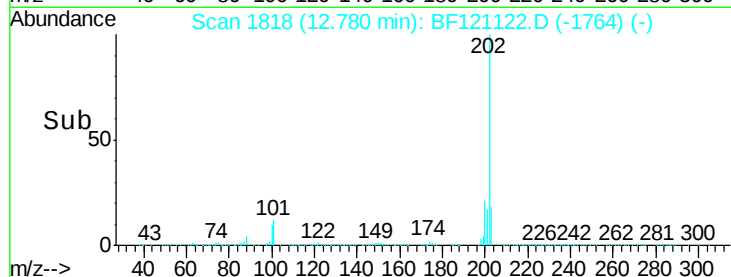
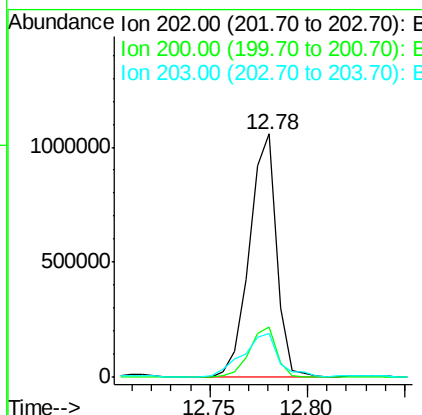
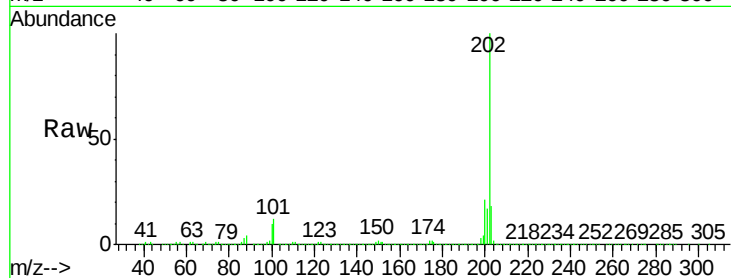




#78
Pvrene
Concen: 31.503 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.02 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

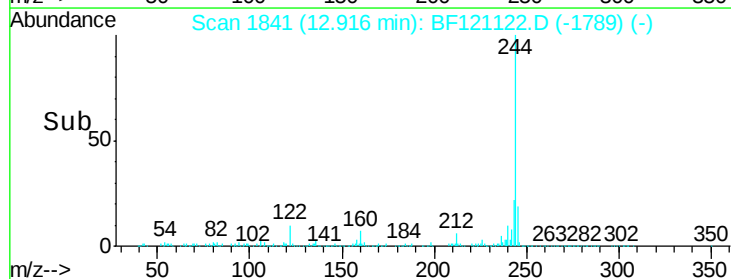
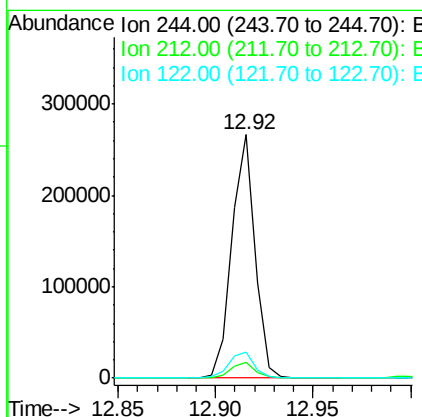
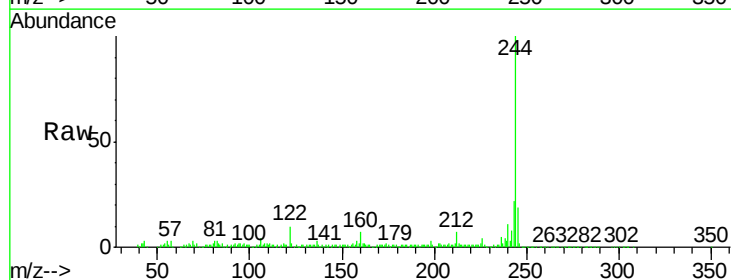
Instrument :
BNA_F
ClientSampled :
5

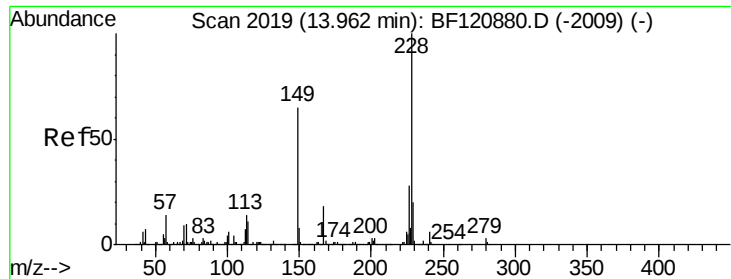
Tot Ion:202 Resp: 1020991
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 17.9 14.6 21.8



#79
Terphenyl-d14
Concen: 10.308 ng
RT: 12.92 min Scan# 1841
Delta R.T. 0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Tgt Ion:244 Resp: 217372
Ion Ratio Lower Upper
244 100
212 6.5 5.7 8.5
122 10.4 8.3 12.5

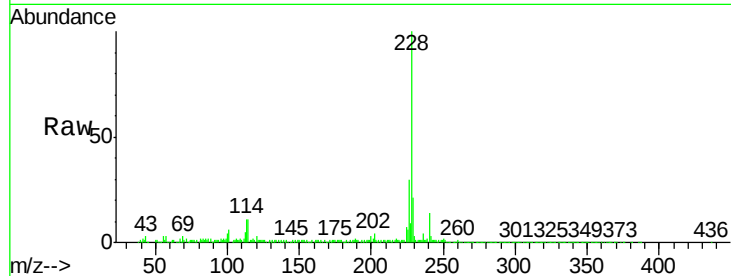




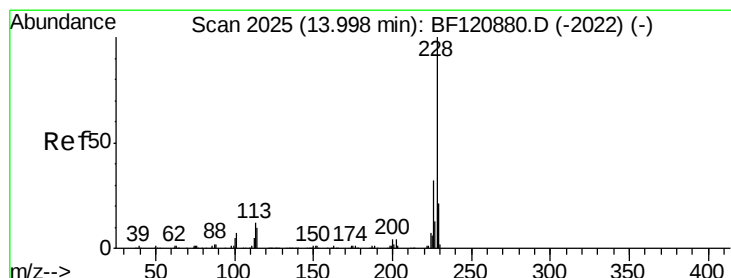
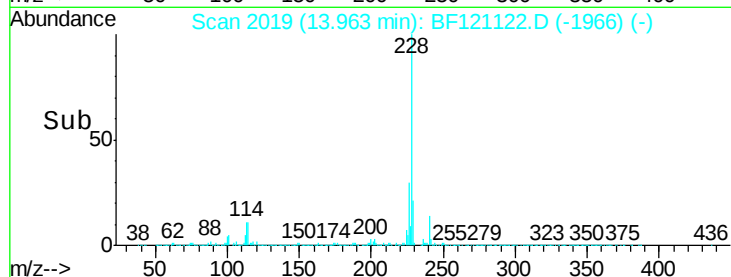
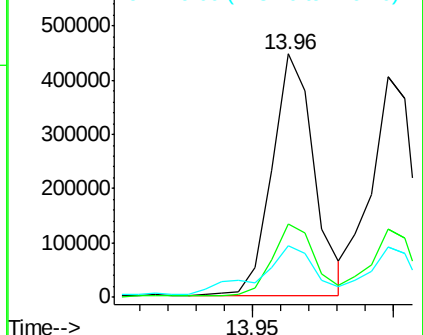
#81
Benzo(a)anthracene
Concen: 16.591 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Instrument :
BNA_F
ClientSampleId :
5

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	34.0
229	21.4	16.1	24.1

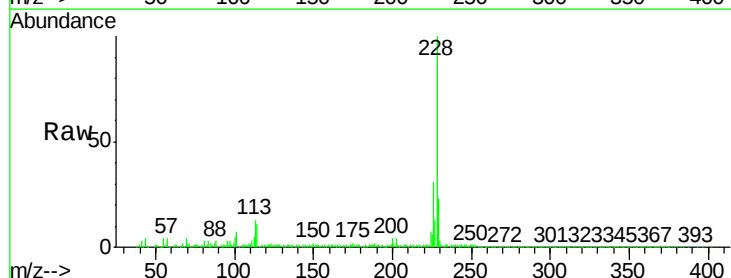


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

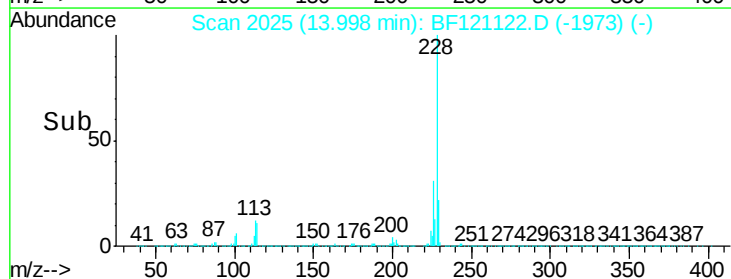
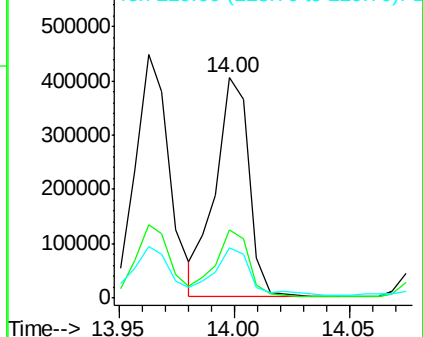


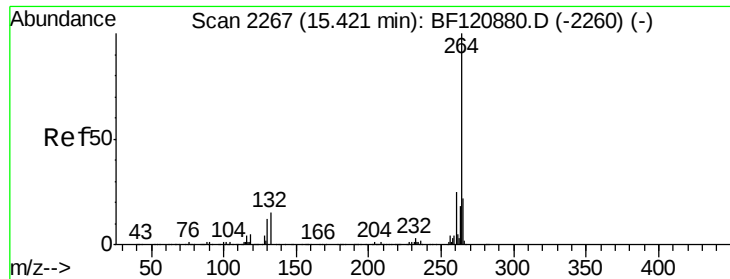
#83
Chrysene
Concen: 13.903 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.4	38.0
229	23.0	16.2	24.4



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



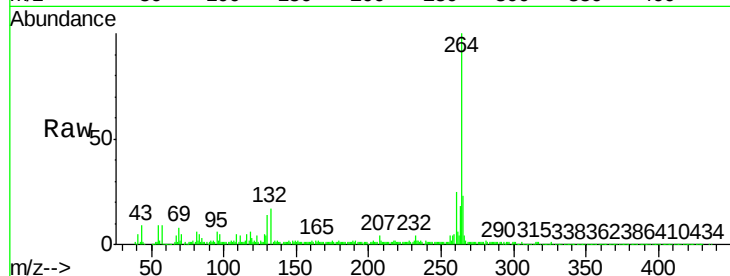


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.03 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

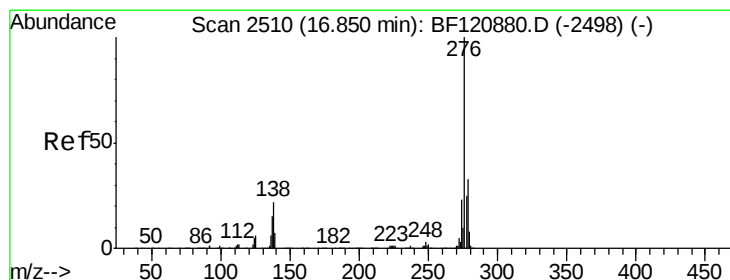
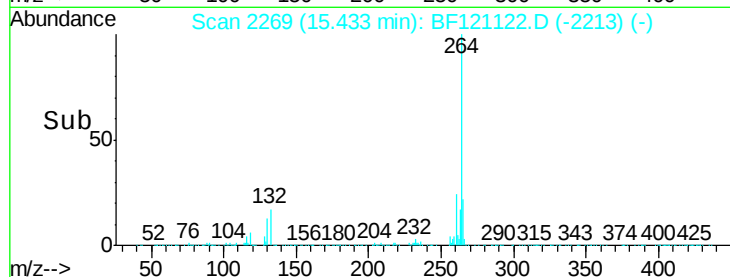
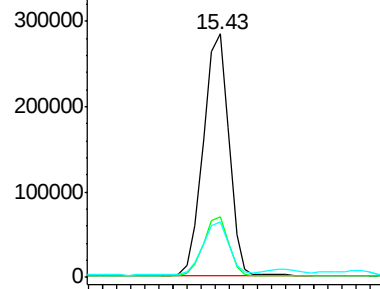
Instrument :
BNA_F
ClientSampleId :
5

Tot Ion:264 Resp: 359498

Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.9	29.9
265	22.9	17.8	26.8



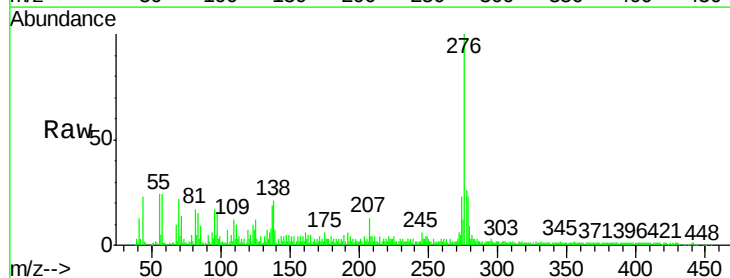
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



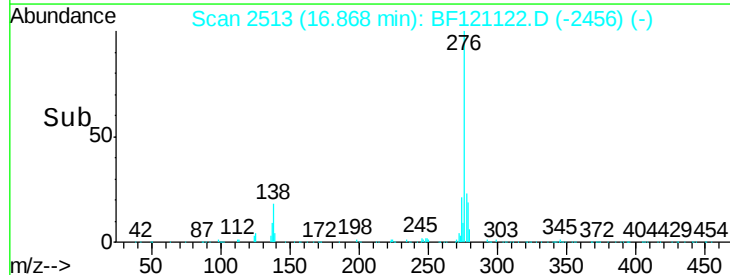
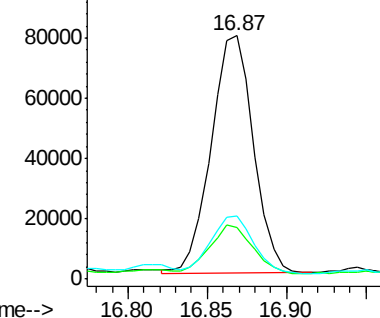
#87
Indeno(1,2,3-cd)pyrene
Concen: 5.847 ng
RT: 16.87 min Scan# 2513
Delta R.T. 0.04 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

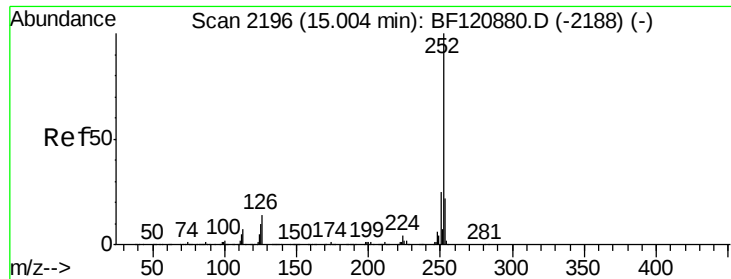
Tgt Ion:276 Resp: 146188

Ion	Ratio	Lower	Upper
276	100		
138	21.5	19.3	28.9
277	24.8	20.1	30.1



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

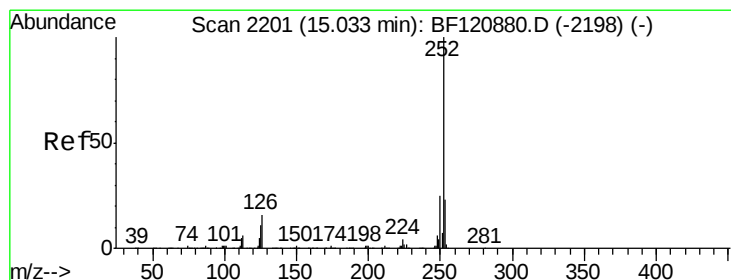
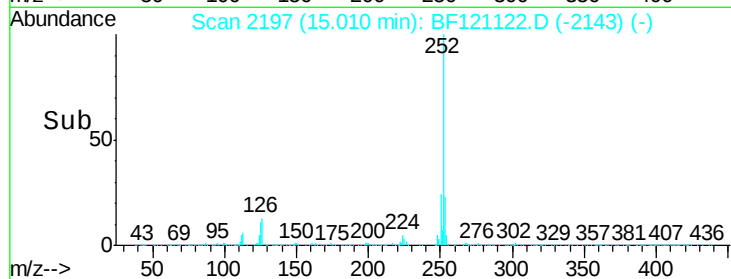
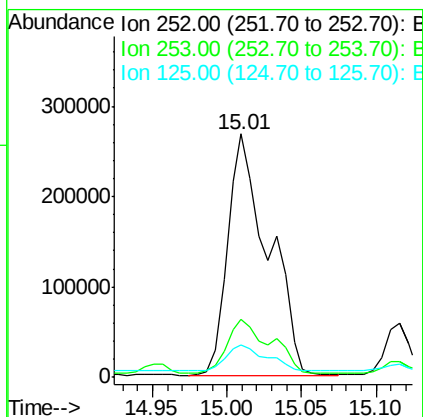
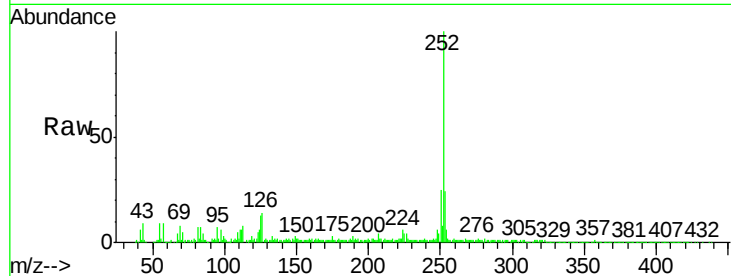




#88
Benzo(b)fluoranthene
Concen: 23.242 ng
RT: 15.01 min Scan# 2197
Delta R.T. 0.02 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

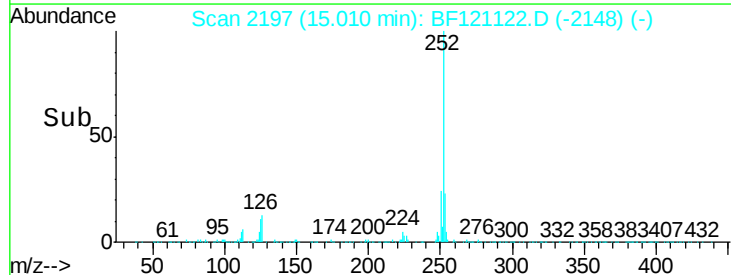
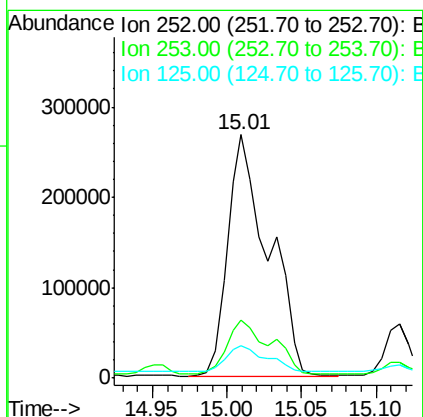
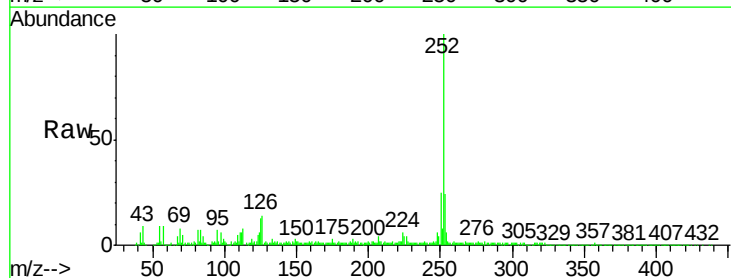
Instrument :
BNA_F
ClientSampleId :
5

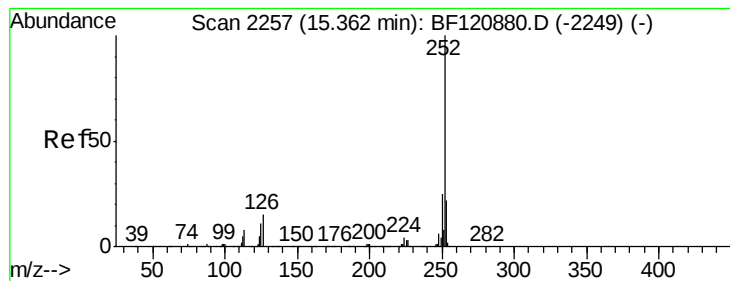
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	13.3	8.1	12.1



#89
Benzo(k)fluoranthene
Concen: 25.485 ng
RT: 15.01 min Scan# 2197
Delta R.T. -0.01 min
Lab File: BF121122.D
Acq: 30 Jul 2020 1:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	13.3	8.0	12.0





#90

Benzo(a)pyrene

Concen: 13.689 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.02 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

Instrument :

BNA_F

ClientSampleId :

5

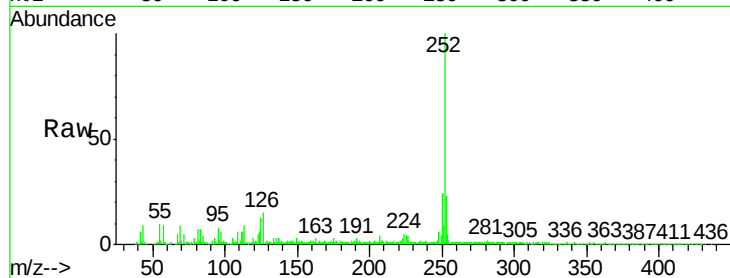
Tot Ion:252 Resp: 271393

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

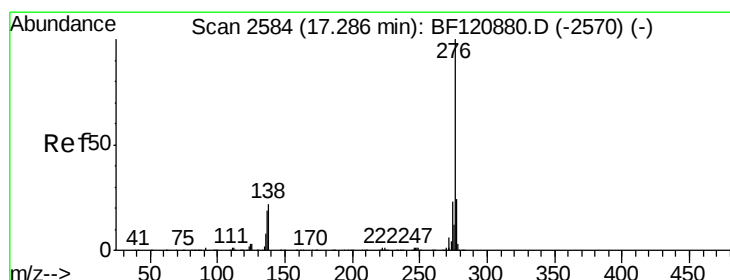
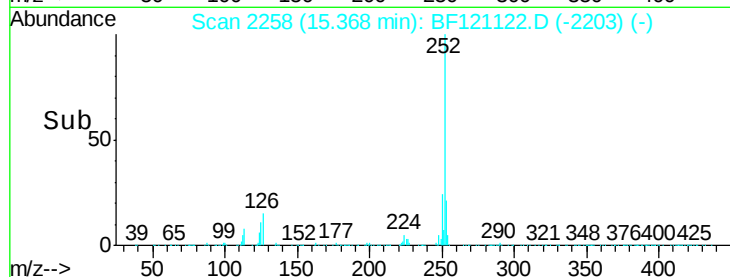
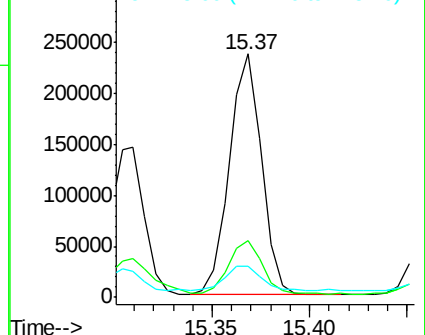
125 12.9 9.5 14.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 6.970 ng

RT: 17.30 min Scan# 2587

Delta R.T. 0.04 min

Lab File: BF121122.D

Acq: 30 Jul 2020 1:34

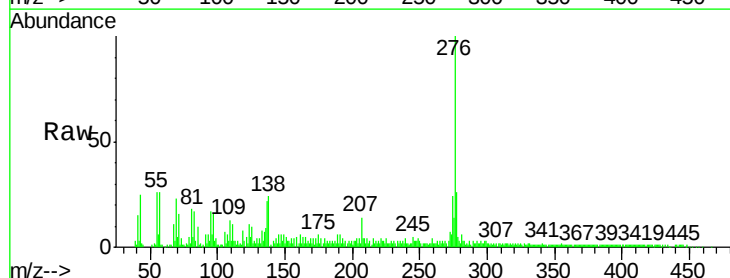
Tgt Ion:276 Resp: 140355

Ion Ratio Lower Upper

276 100

277 26.2 19.4 29.0

138 23.8 17.2 25.8



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

