

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\
 Data File : BF121120.D
 Acq On : 30 Jul 2020 00:34
 Operator : JU/CG
 Sample : L3436-02 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 2

Quant Time: Jul 30 03:10:23 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	6.80	152	147432	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	527455	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	248943	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	414818	20.00	ng	0.01
76) Chrysene-d12	13.97	240	355494	20.00	ng	0.01
86) Perylene-d12	15.43	264	280627	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	199380	22.17	ng	0.00
7) Phenol-d6	6.44	99	234306	20.17	ng	0.00
23) Nitrobenzene-d5	7.36	82	126440	13.87	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	50467	18.52	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	277491	16.64	ng	0.00
79) Terphenyl-d14	12.92	244	243496	14.89	ng	0.00

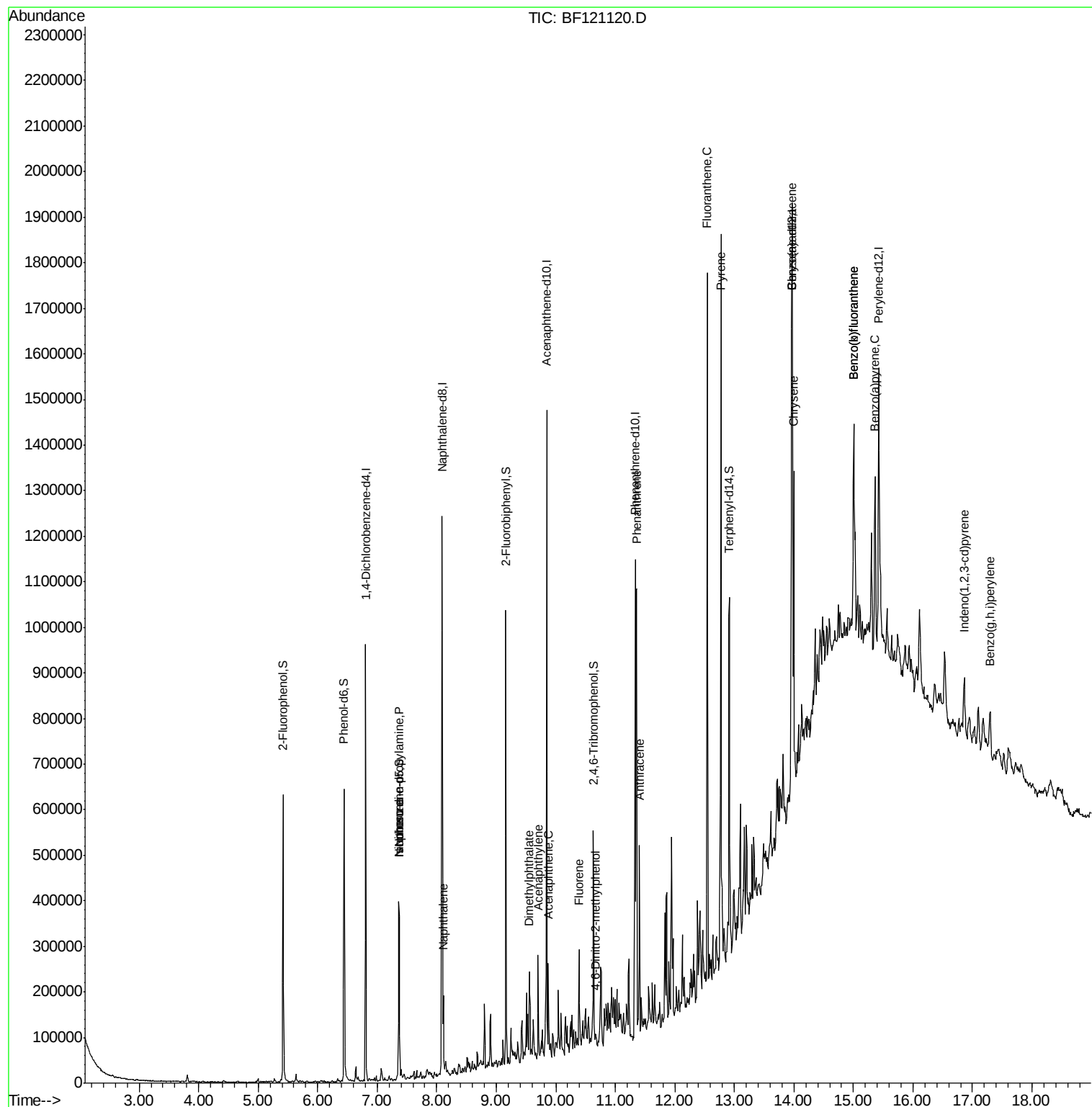
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.36	77	416	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.36	70	18629	2.820	ng	# 79
25) Isophorone	7.36	82	121176	6.661	ng	# 62
31) Naphthalene	8.11	128	61240	2.263	ng	100
49) Acenaphthylene	9.70	152	69884	2.906	ng	99
50) Dimethylphthalate	9.56	163	47638	2.652	ng	# 98
52) Acenaphthene	9.87	154	39012	2.551	ng	98
58) Fluorene	10.39	166	56731	3.440	ng	98
65) 4,6-Dinitro-2-methylphenol	10.66	198	490	4.030	ng	# 1
71) Phenanthrene	11.36	178	381828	17.897	ng	98
72) Anthracene	11.40	178	143770	6.711	ng	98
75) Fluoranthene	12.55	202	595831	25.197	ng	98
78) Pylene	12.77	202	641226	25.513	ng	98
81) Benzo(a)anthracene	13.96	228	282532	13.125	ng	94
83) Chrysene	14.00	228	279254	12.344	ng	96
87) Indeno(1,2,3-cd)pyrene	16.86	276	89207	4.571	ng	98
88) Benzo(b)fluoranthene	15.00	252	335867	19.800	ng	# 93
89) Benzo(k)fluoranthene	15.00	252	335867	21.711	ng	# 94
90) Benzo(a)pyrene	15.36	252	182043	11.763	ng	# 93
92) Benzo(a,h,i)perylene	17.29	276	88527	5.632	ng	93

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

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Instrument :
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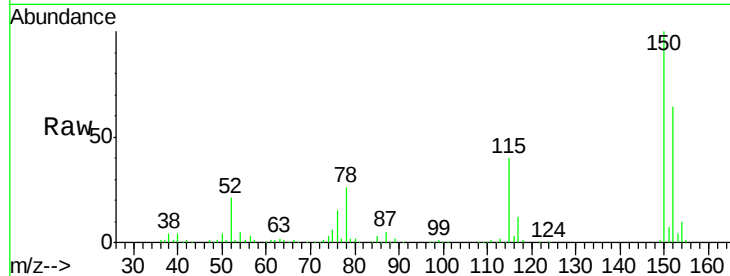


#1

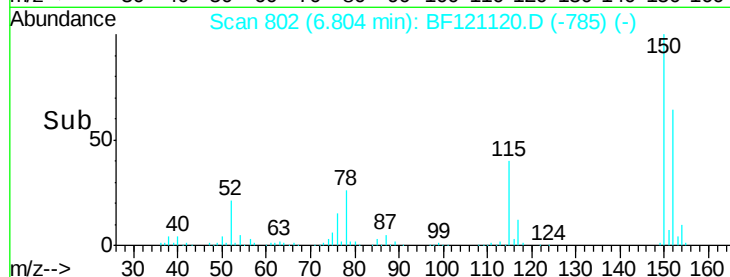
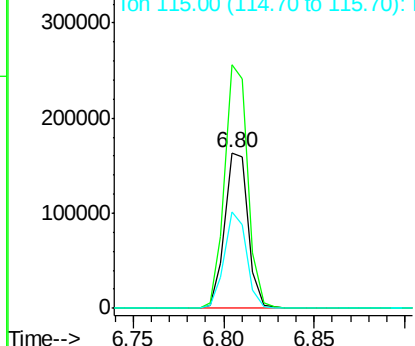
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion:152 Resp: 147432
Ion Ratio Lower Upper
152 100
150 156.3 125.6 188.4
115 62.0 46.2 69.2



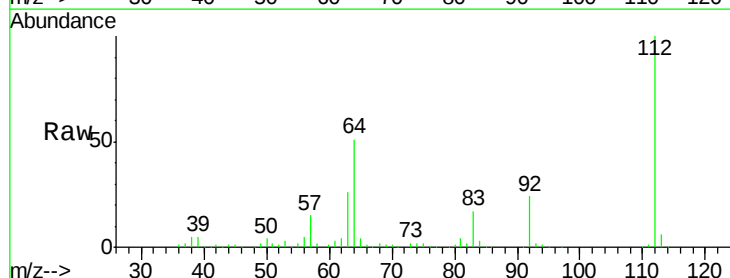
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



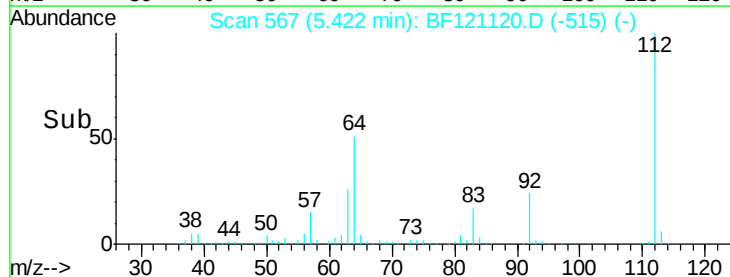
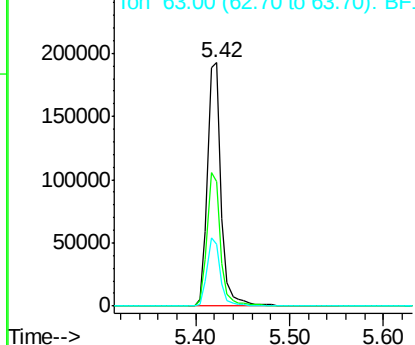
#5

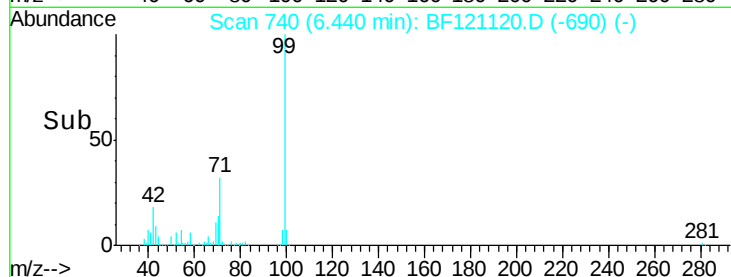
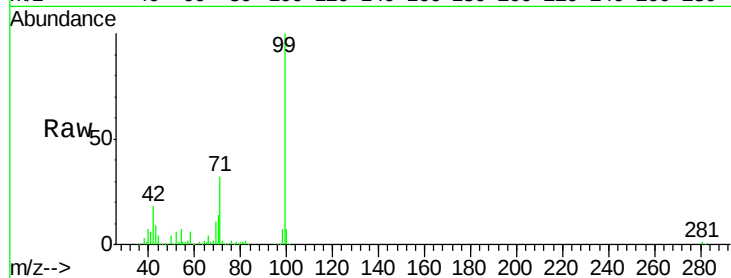
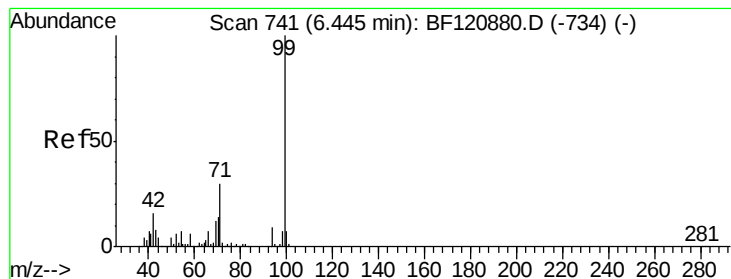
2-Fluorophenol
Concen: 22.170 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion:112 Resp: 199380
Ion Ratio Lower Upper
112 100
64 51.1 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: 20.169 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

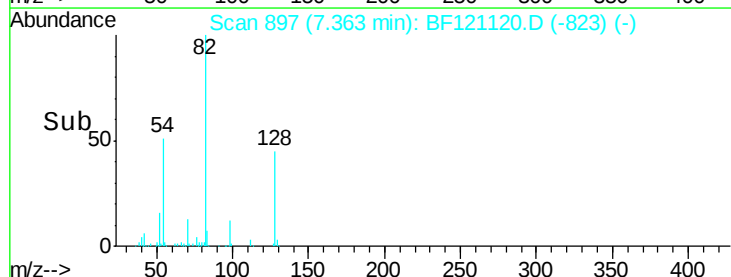
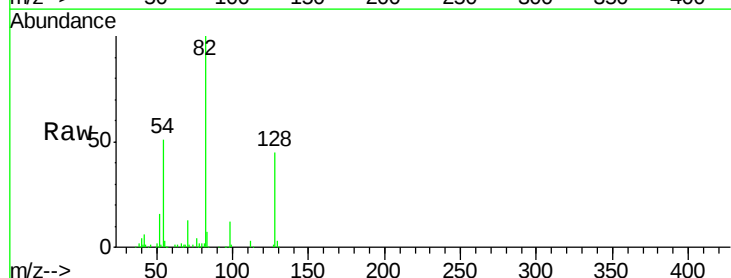
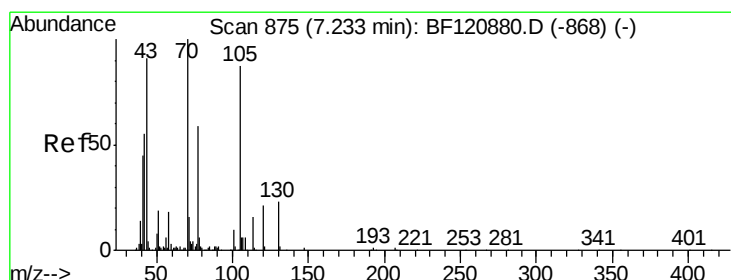
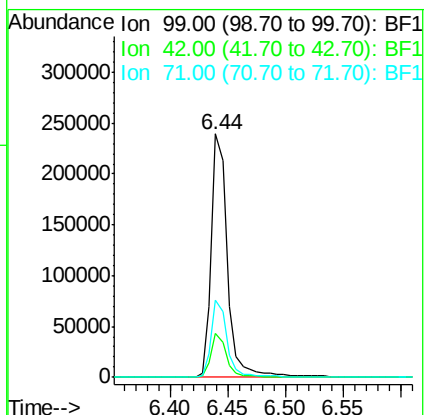
Tot Ion: 99 Resp: 234306

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

71 31.6 25.0 37.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.820 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.14 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Tgt Ion: 70 Resp: 18629

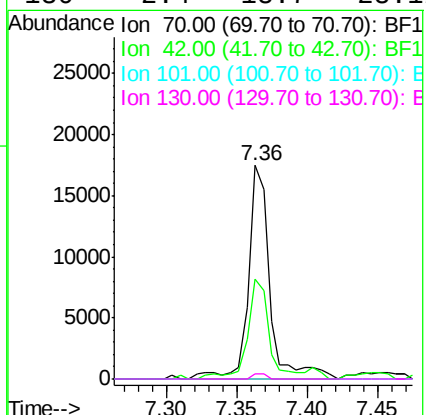
Ion Ratio Lower Upper

70 100

42 46.7 43.3 64.9

101 0.0 8.4 12.6#

130 2.4 18.7 28.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.01 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

Tot Ion:136 Resp: 527455

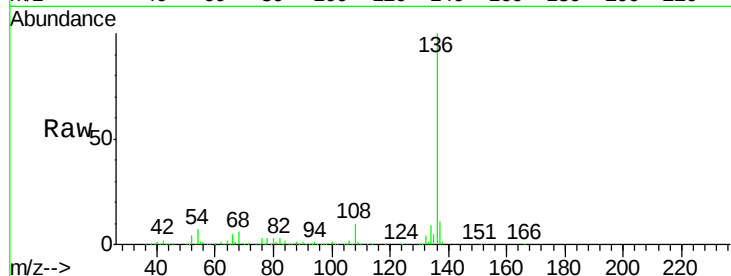
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 6.9 6.1 9.1

68 5.6 5.0 7.6

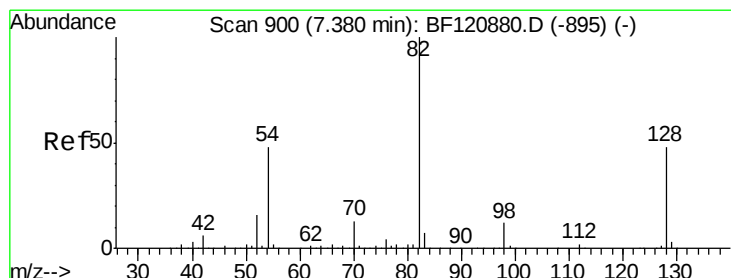
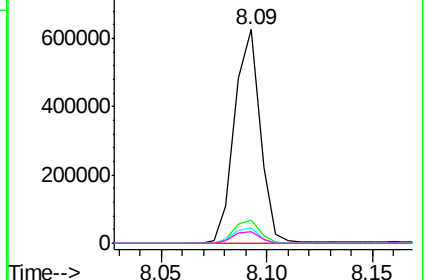
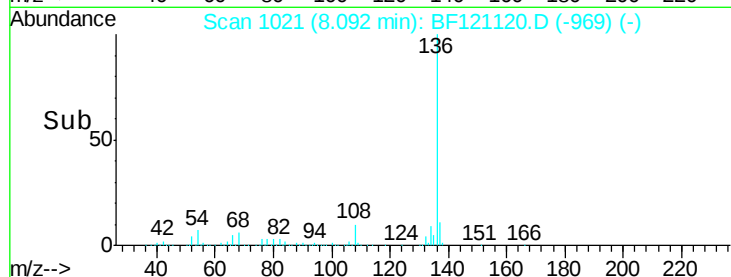


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.871 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

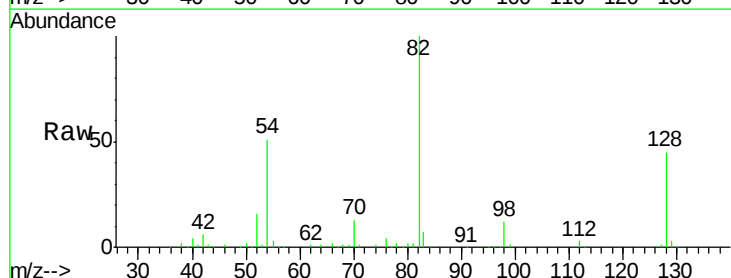
Tgt Ion: 82 Resp: 126440

Ion Ratio Lower Upper

82 100

128 44.5 39.2 58.8

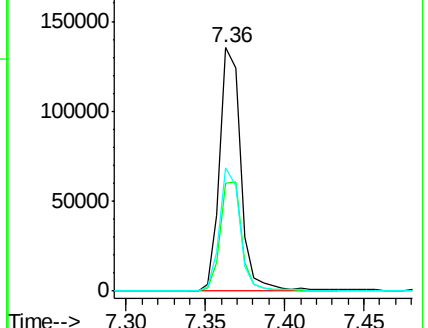
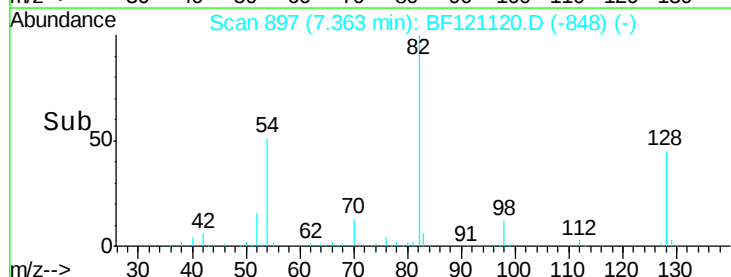
54 50.5 37.8 56.8

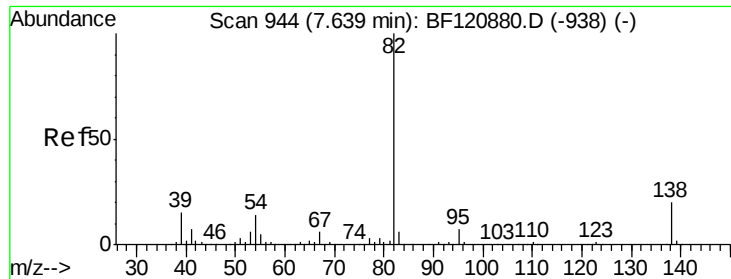


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.661 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.27 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

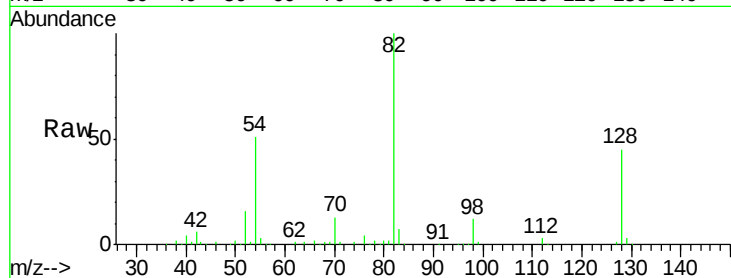
Tot Ion: 82 Resp: 121176

Ion Ratio Lower Upper

82 100

95 0.3 5.5 8.3#

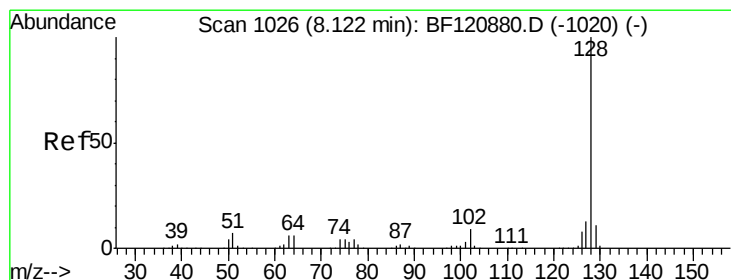
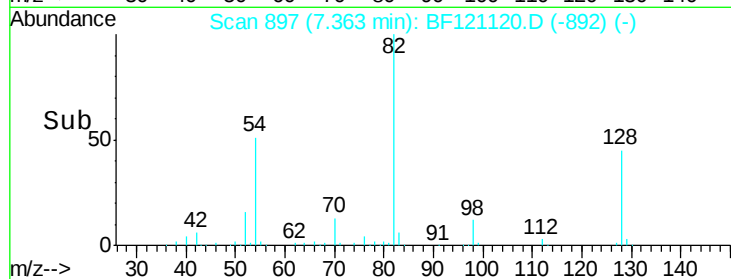
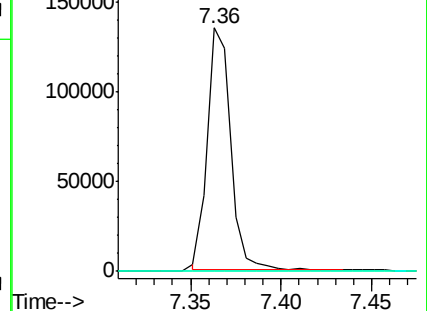
138 0.0 16.2 24.2#



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: 2.263 ng

RT: 8.11 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

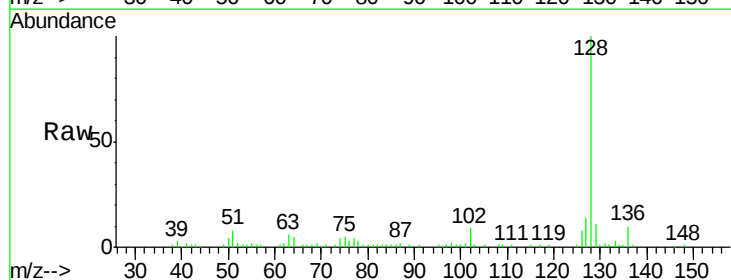
Tgt Ion: 128 Resp: 61240

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

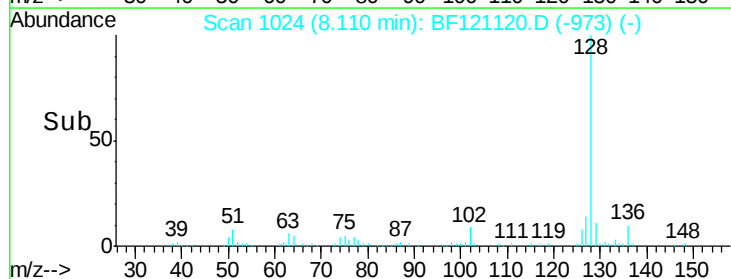
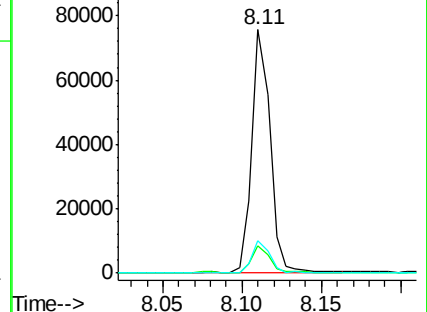
127 13.5 10.8 16.2

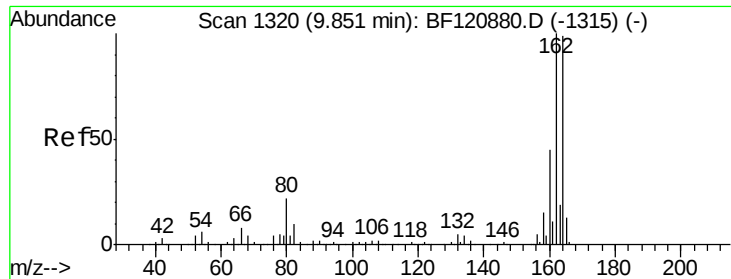


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

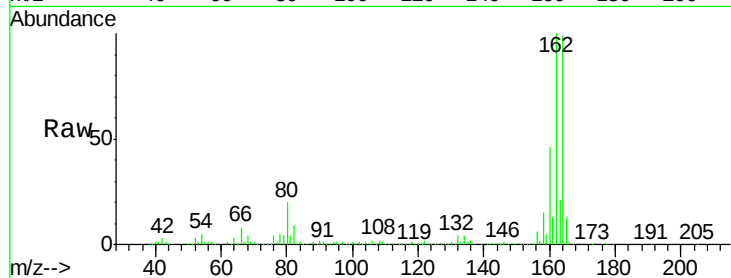




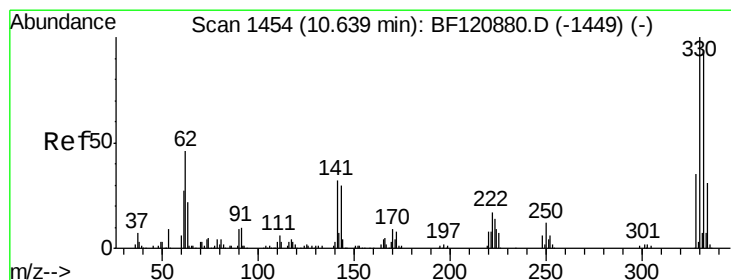
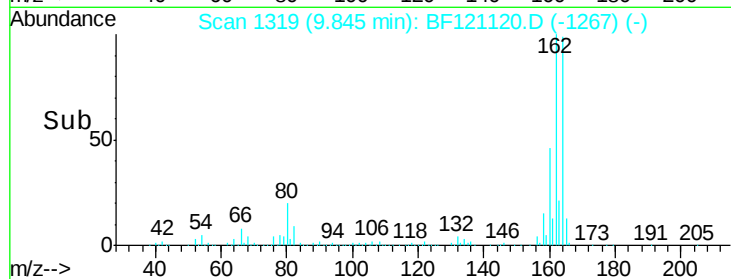
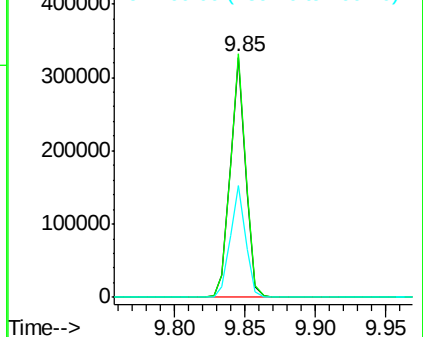
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.2	123.2
160	46.3	37.2	55.8

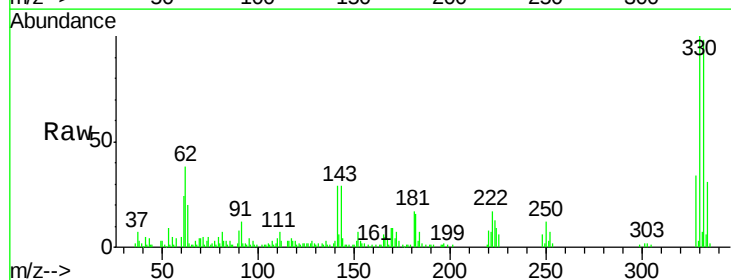


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

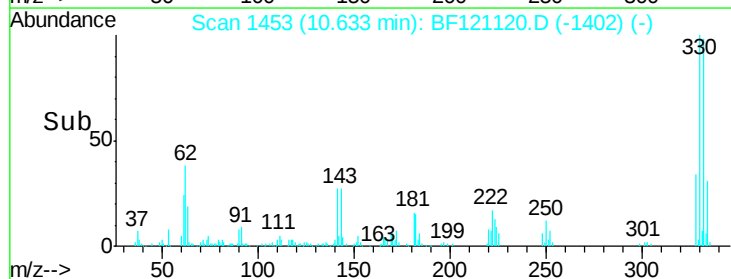
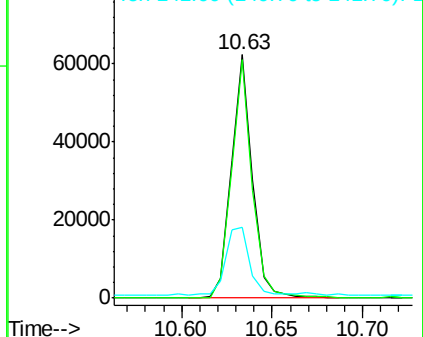


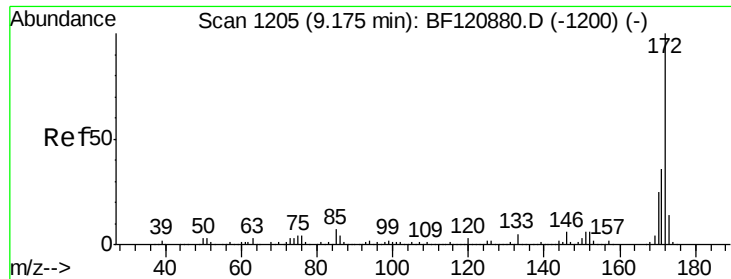
#42
2,4,6-Tribromophenol
Concen: 18.520 ng
RT: 10.63 min Scan# 1453
Delta R.T. 0.00 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.1	114.1
141	32.7	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

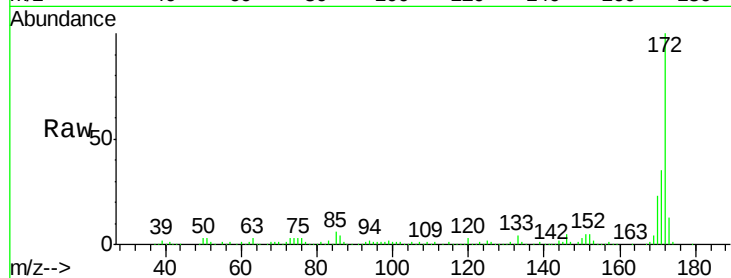




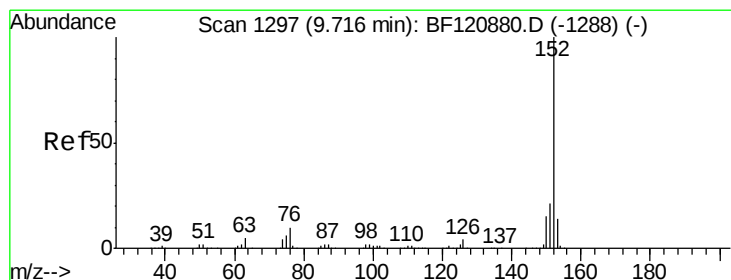
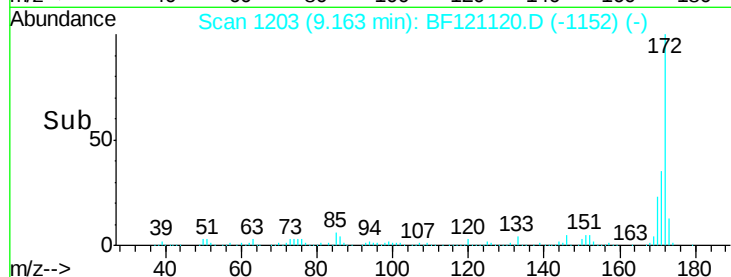
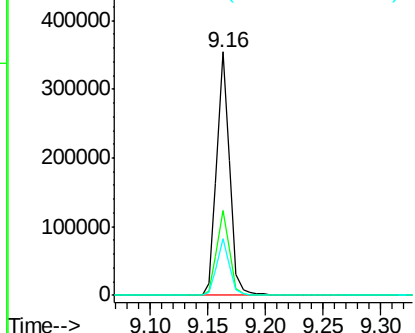
#45
2-Fluorobiphenyl
Concen: 16.643 ng
RT: 9.16 min Scan# 1203
Delta R.T. 0.00 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion:172 Resp: 277491
Ion Ratio Lower Upper
172 100
171 34.8 29.0 43.4
170 23.1 19.6 29.4

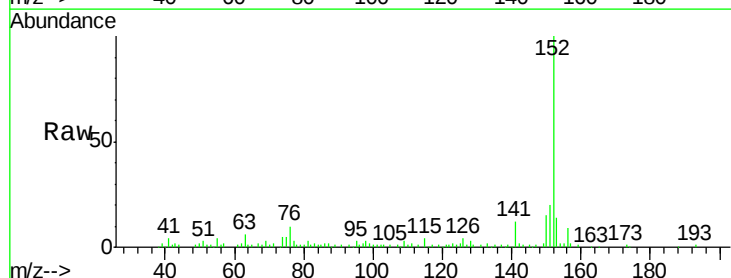


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

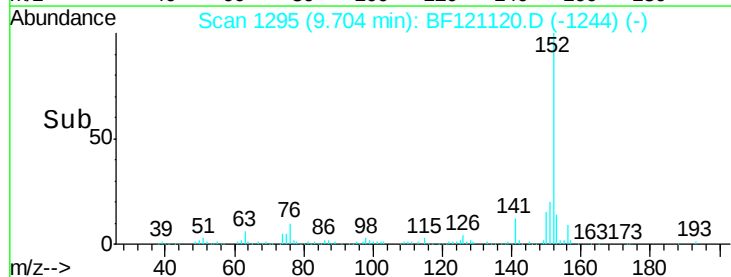
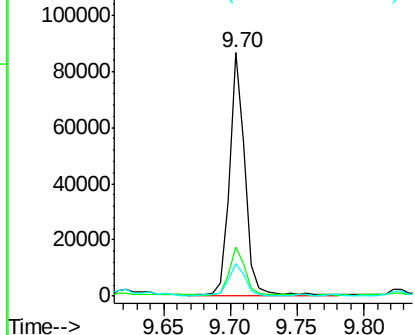


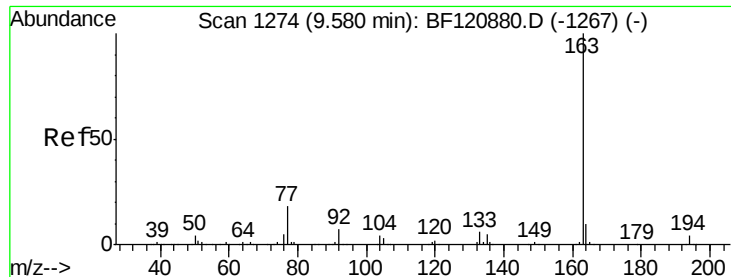
#49
Acenaphthylene
Concen: 2.906 ng
RT: 9.70 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion:152 Resp: 69884
Ion Ratio Lower Upper
152 100
151 20.1 16.6 25.0
153 13.6 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

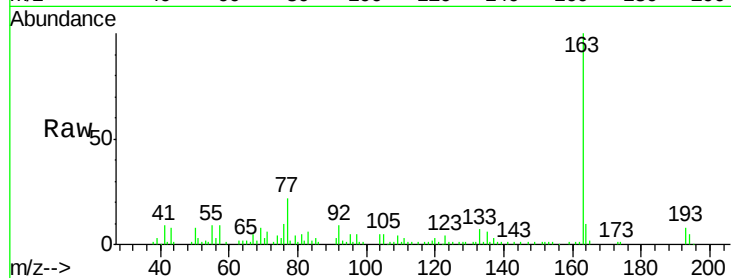




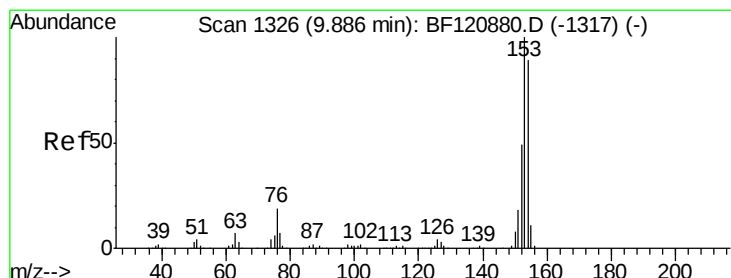
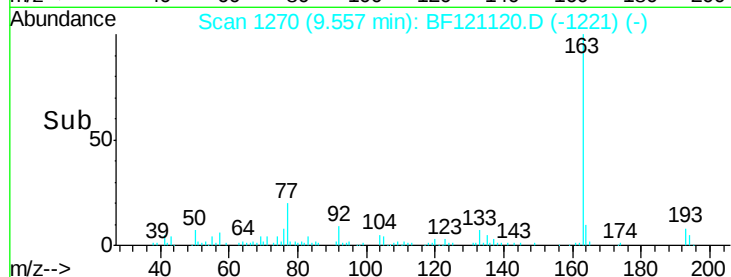
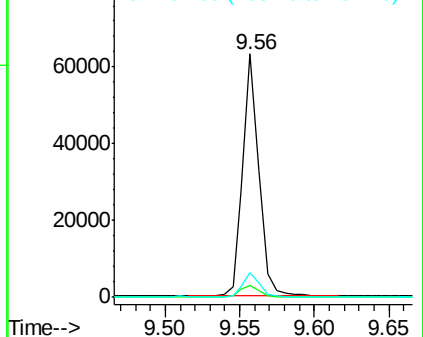
#50
Dimethylphthalate
Concen: 2.652 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion:163 Resp: 47638
Ion Ratio Lower Upper
163 100
194 5.1 3.0 4.4#
164 10.1 8.4 12.6

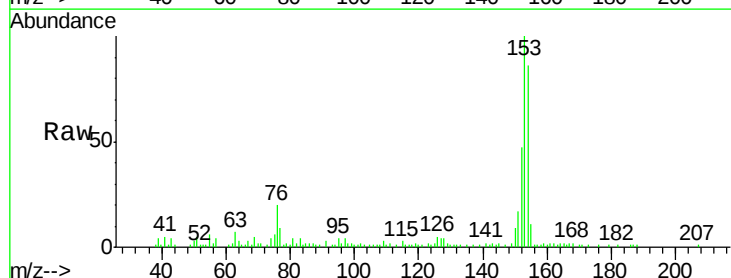


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

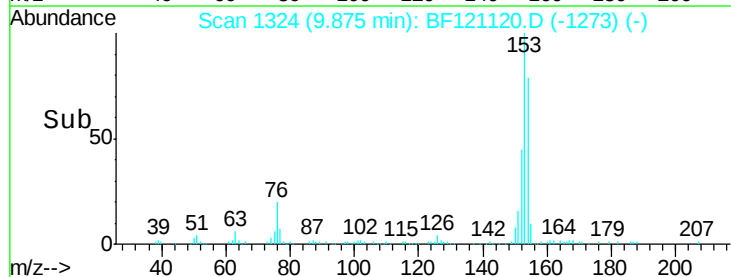
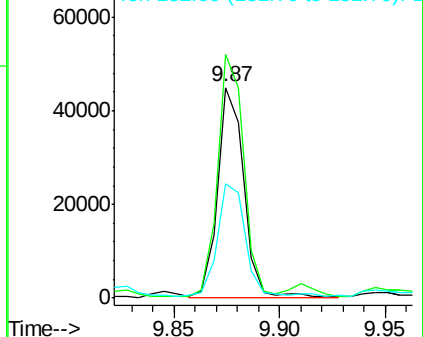


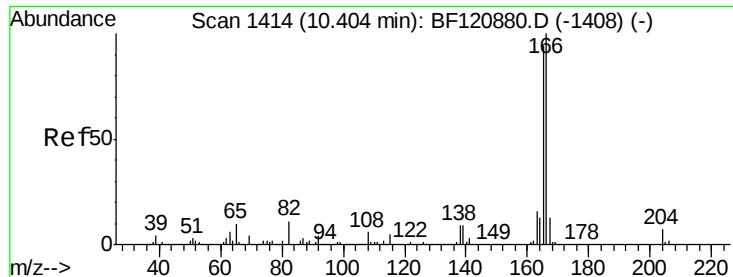
#52
Acenaphthene
Concen: 2.551 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.00 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion:154 Resp: 39012
Ion Ratio Lower Upper
154 100
153 115.6 89.6 134.4
152 54.6 43.8 65.6



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#58

Fluorene

Concen: 3.440 ng

RT: 10.39 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

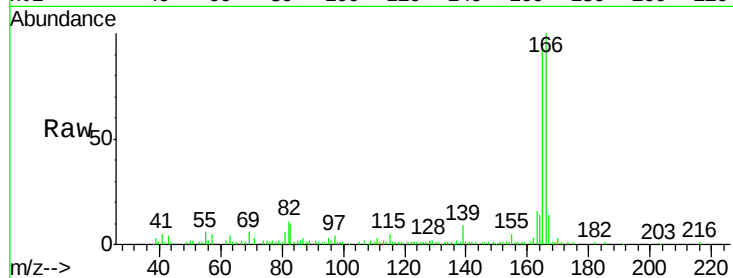
Tot Ion:166 Resp: 56731

Ion Ratio Lower Upper

166 100

165 93.2 76.4 114.6

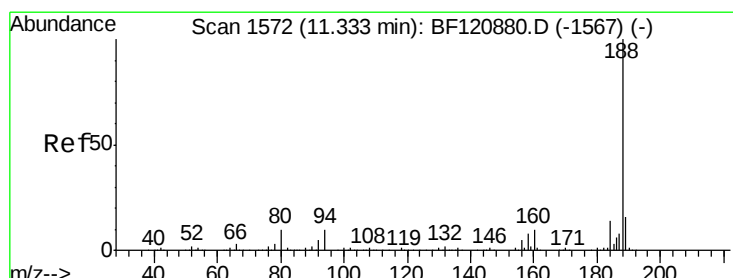
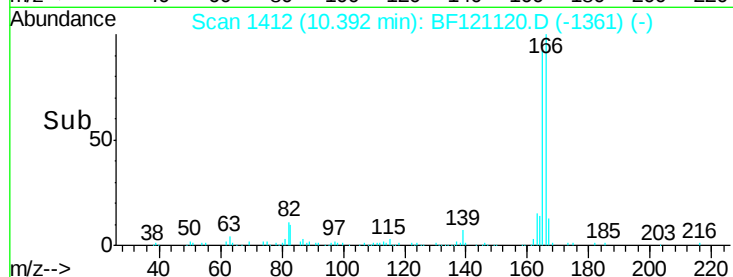
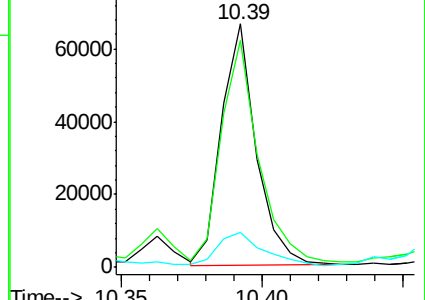
167 14.3 10.7 16.1



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: BF121120.D

Acq: 30 Jul 2020 00:34

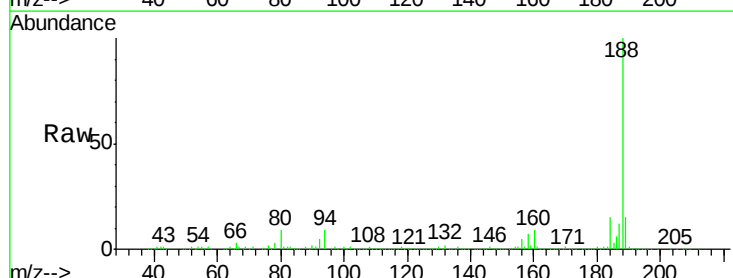
Tgt Ion:188 Resp: 414818

Ion Ratio Lower Upper

188 100

94 8.6 8.0 12.0

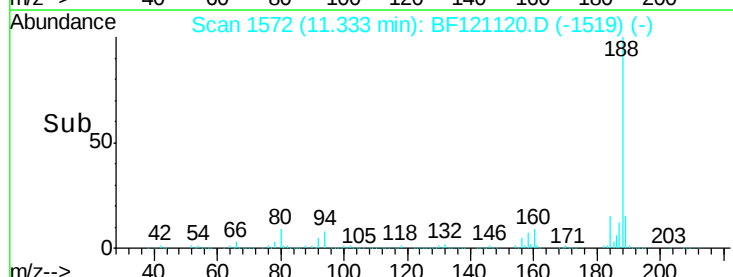
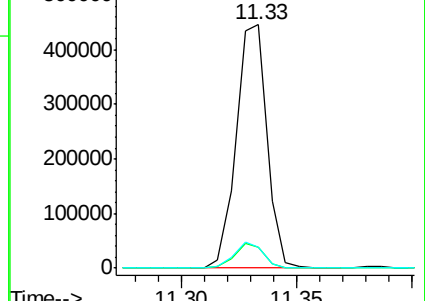
80 8.8 8.3 12.5

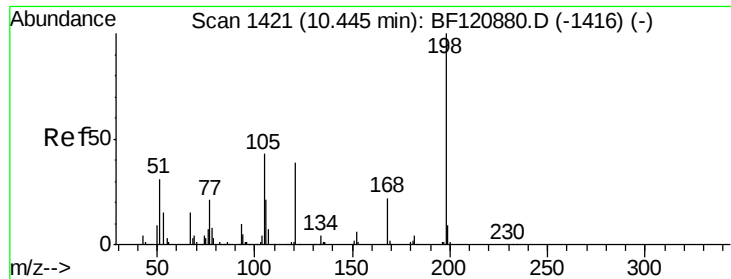


Abundance Ion 188.00 (187.70 to 188.70): E

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: 4.030 ng

RT: 10.66 min Scan# 1457

Delta R.T. 0.22 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

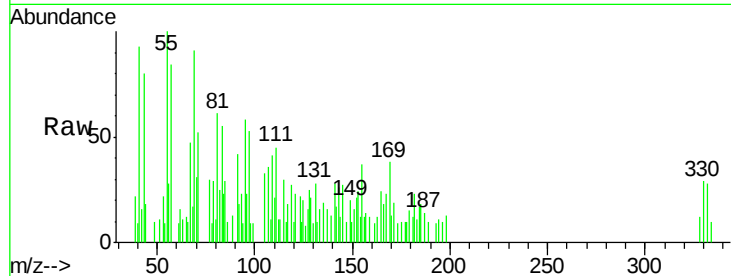
Tot Ion:198 Resp: 490

Ion Ratio Lower Upper

198 100

51 82.7 23.4 63.4#

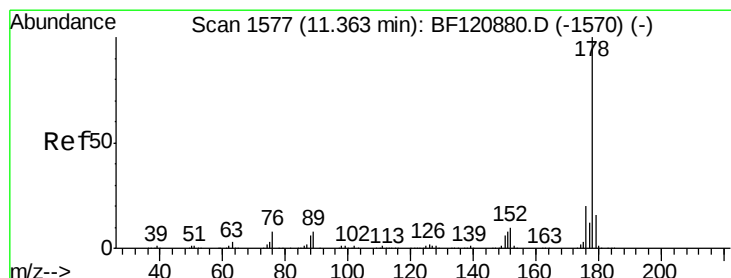
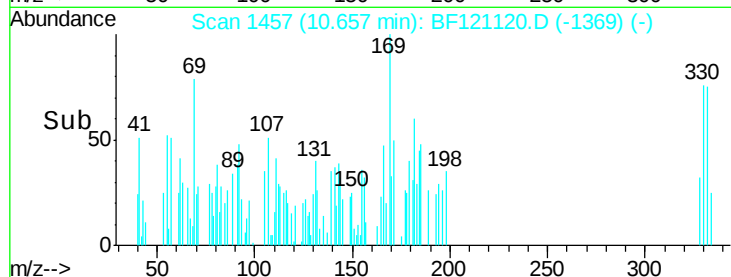
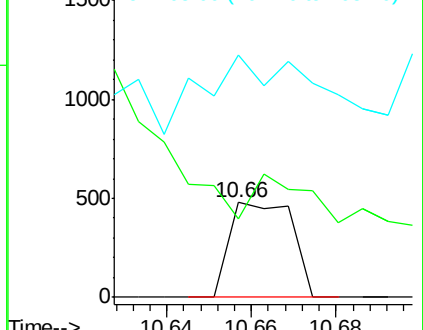
105 255.3 23.7 63.7#



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: 17.897 ng

RT: 11.36 min Scan# 1576

Delta R.T. 0.01 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

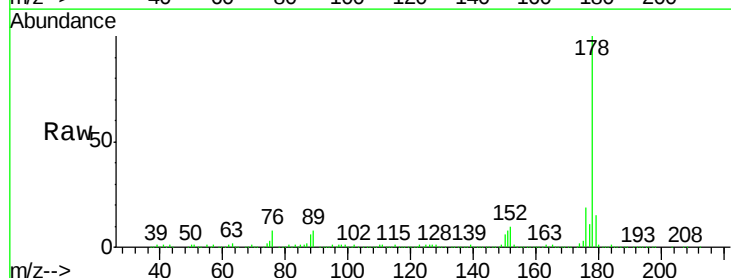
Tgt Ion:178 Resp: 381828

Ion Ratio Lower Upper

178 100

176 19.5 16.2 24.2

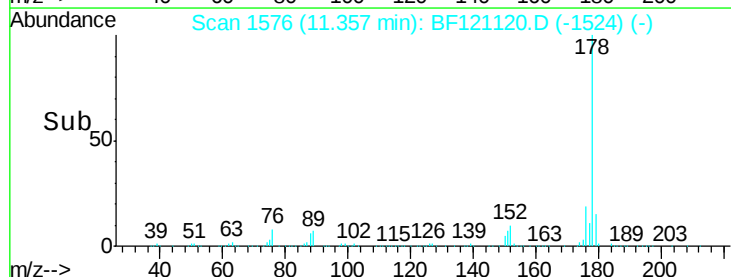
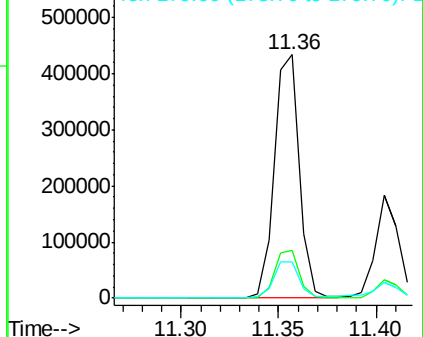
179 15.1 12.6 19.0

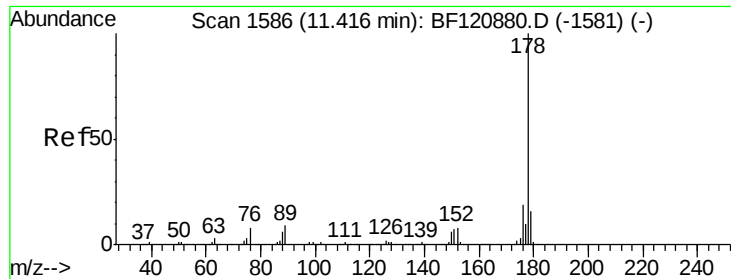


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.711 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

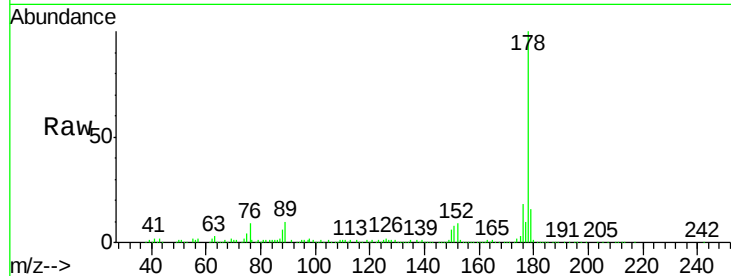
Tot Ion:178 Resp: 143770

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

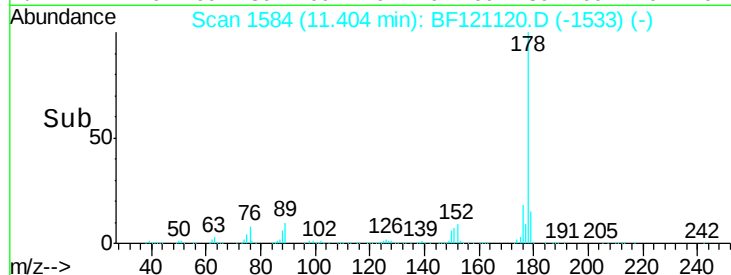
179 15.7 12.6 19.0



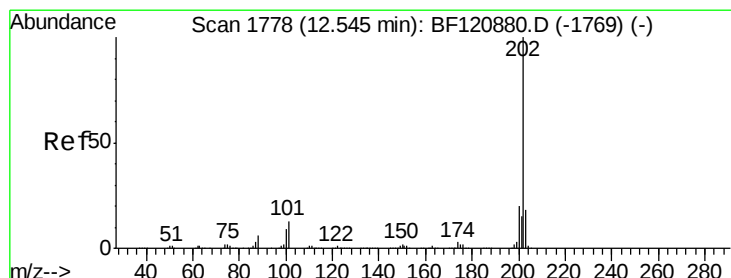
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 25.197 ng

RT: 12.55 min Scan# 1778

Delta R.T. 0.01 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

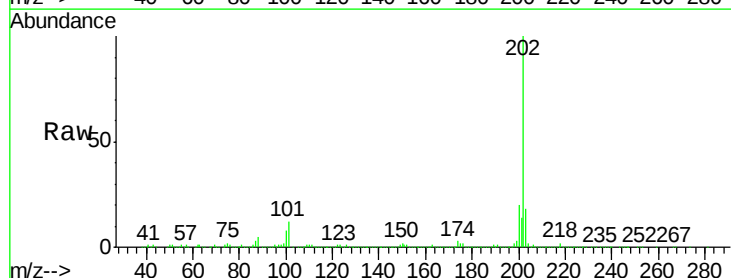
Tgt Ion:202 Resp: 595831

Ion Ratio Lower Upper

202 100

101 11.7 0.0 30.5

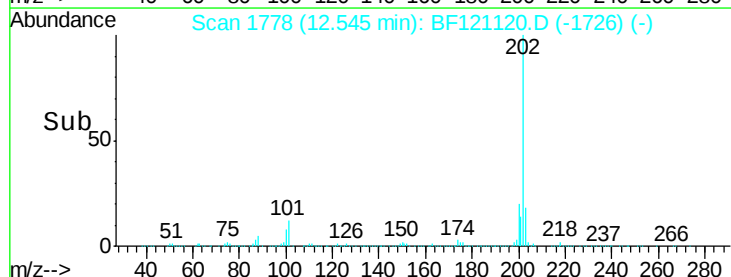
203 18.2 0.0 37.7



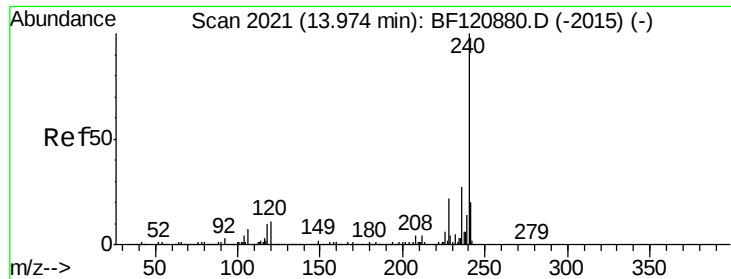
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



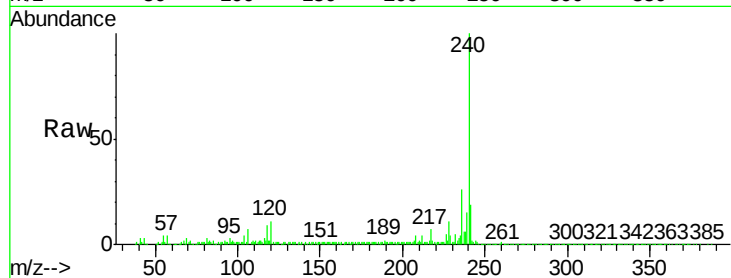
Time-->



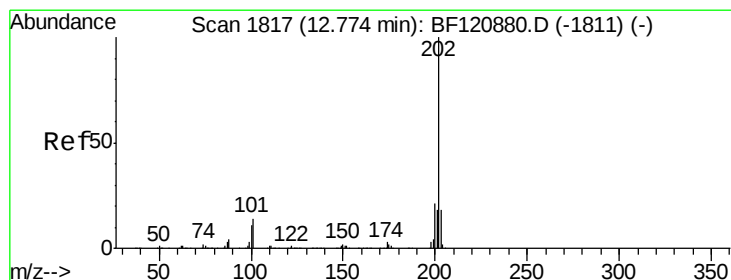
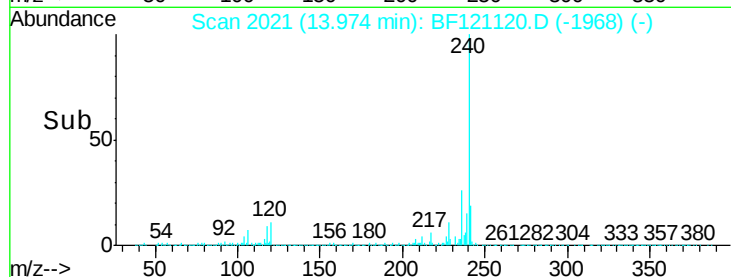
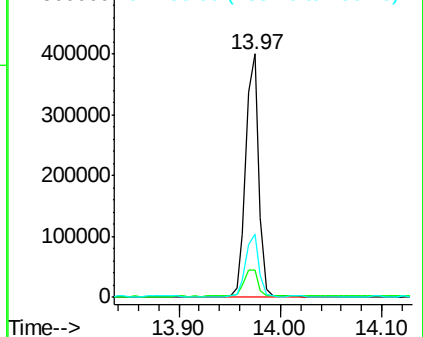
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.97 min Scan# 2021
Delta R.T. 0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion:240 Resp: 355494
Ion Ratio Lower Upper
240 100
120 11.0 9.3 13.9
236 26.0 21.1 31.7

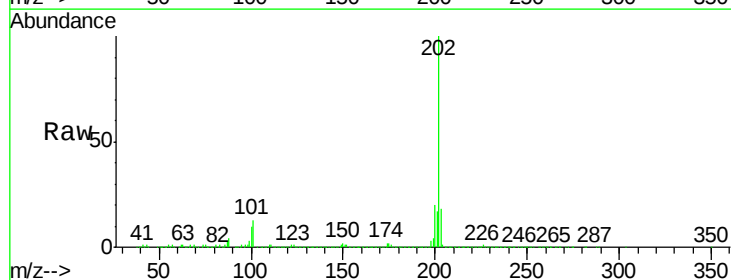


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

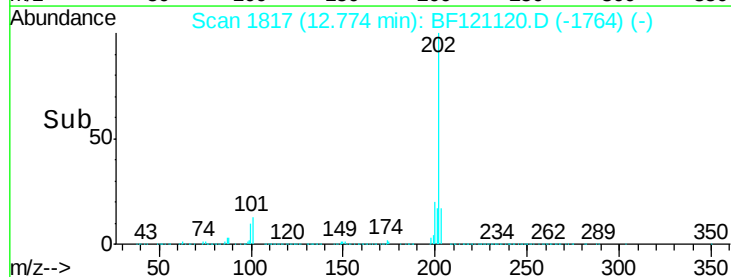
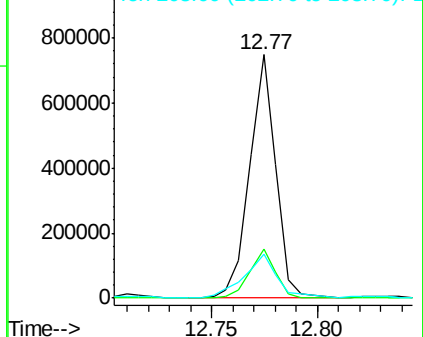


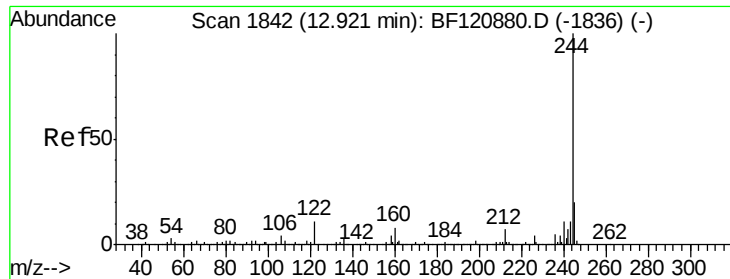
#78
Pyrene
Concen: 25.513 ng
RT: 12.77 min Scan# 1817
Delta R.T. 0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion:202 Resp: 641226
Ion Ratio Lower Upper
202 100
200 20.1 17.0 25.6
203 17.9 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

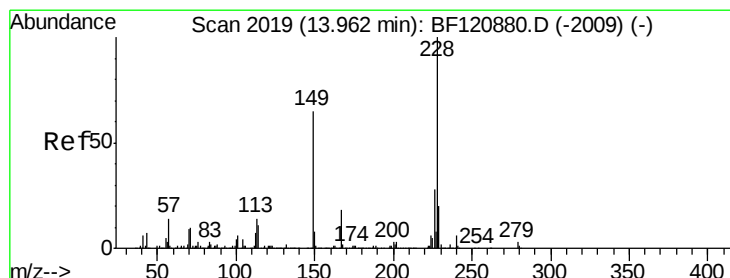
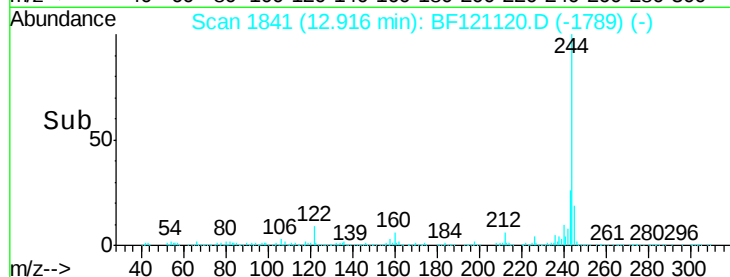
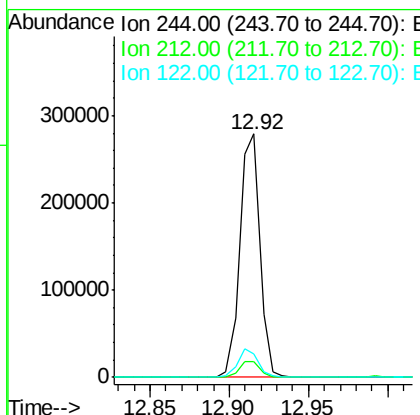
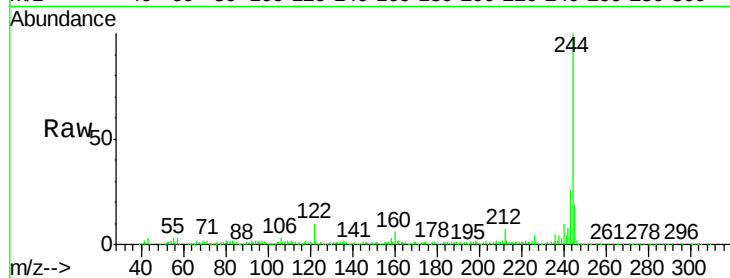




#79
 Terphenyl-d14
 Concen: 14.889 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. 0.01 min
 Lab File: BF121120.D
 Acq: 30 Jul 2020 00:34

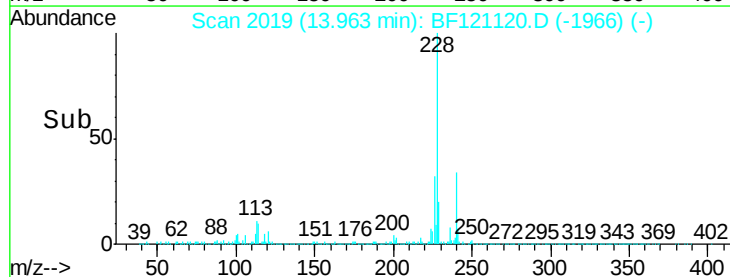
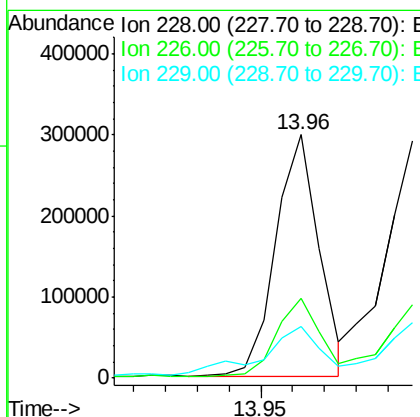
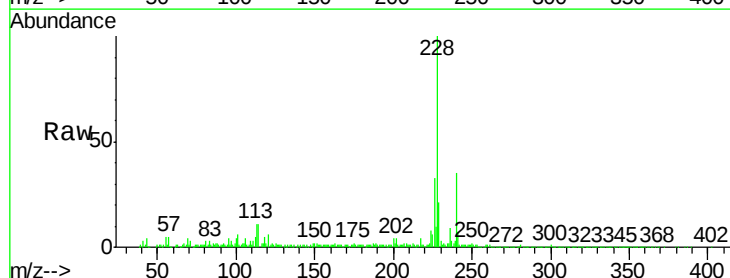
Instrument :
 BNA_F
 ClientSampleId :
 2

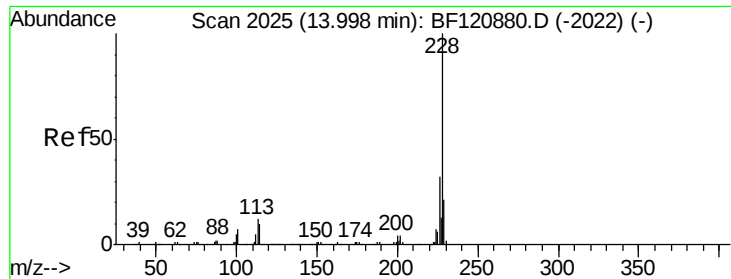
Tot Ion:244 Resp: 243496
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.7 8.5
 122 9.7 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 13.125 ng
 RT: 13.96 min Scan# 2019
 Delta R.T. 0.01 min
 Lab File: BF121120.D
 Acq: 30 Jul 2020 00:34

Tgt Ion:228 Resp: 282532
 Ion Ratio Lower Upper
 228 100
 226 32.5 22.6 34.0
 229 21.2 16.1 24.1

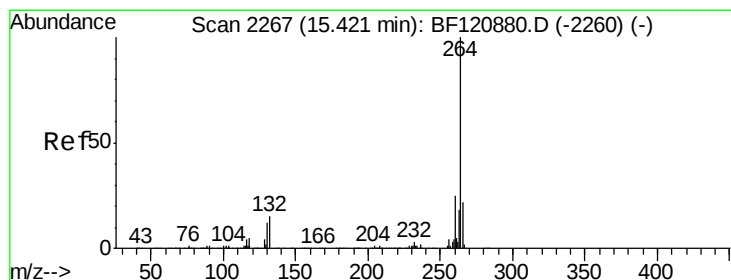
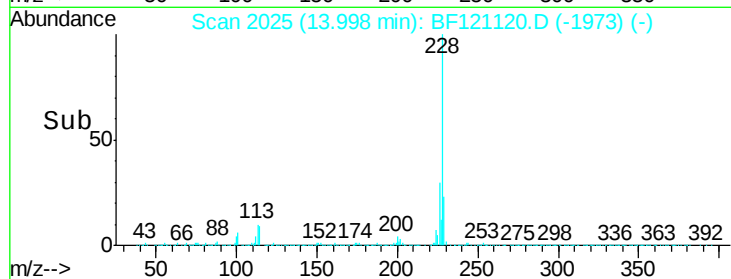
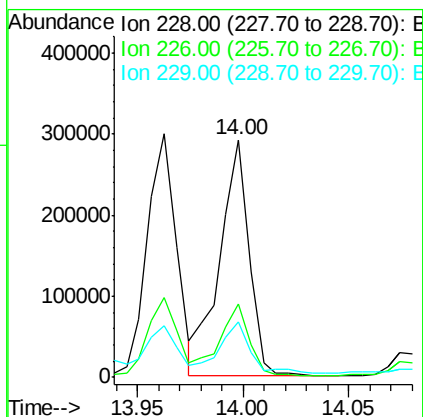
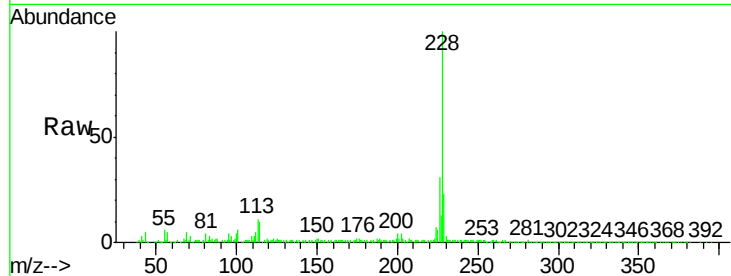




#83
Chrysene
Concen: 12.344 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.01 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

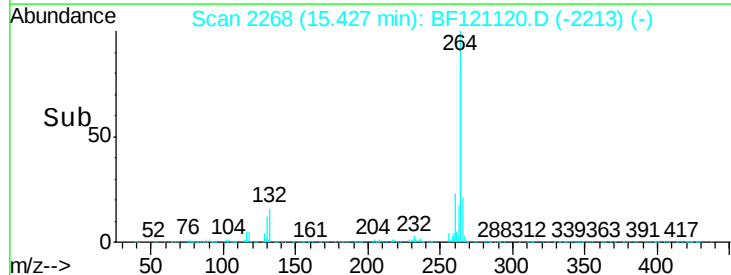
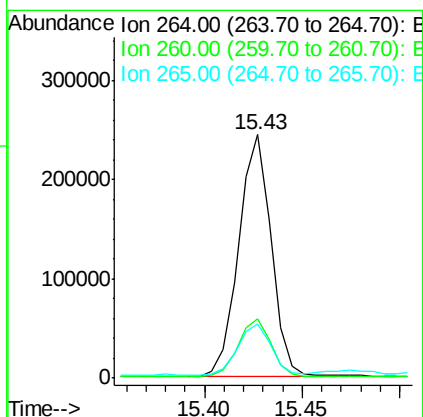
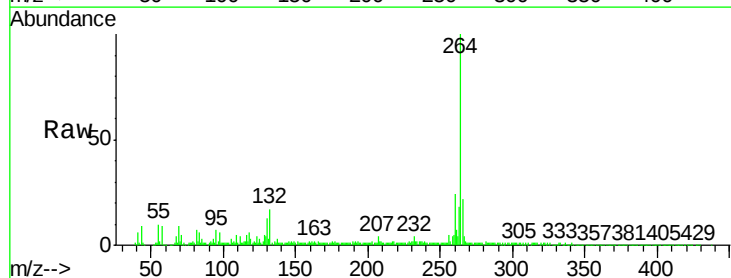
Instrument :
BNA_F
ClientSampleId :
2

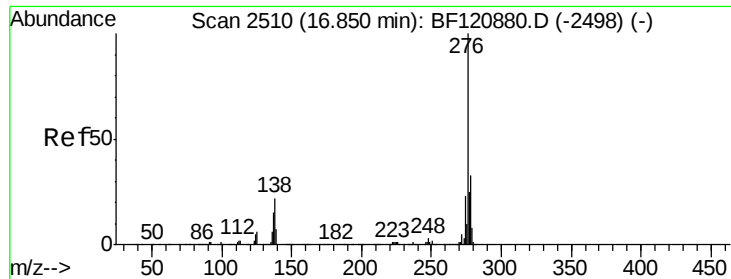
Tot Ion:228	Resp:	279254
Ion	Ratio	Lower Upper
228	100	
226	30.8	25.4 38.0
229	23.4	16.2 24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.02 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion:264	Resp:	280627
Ion	Ratio	Lower Upper
264	100	
260	24.1	19.9 29.9
265	22.2	17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.571 ng

RT: 16.86 min Scan# 2512

Delta R.T. 0.03 min

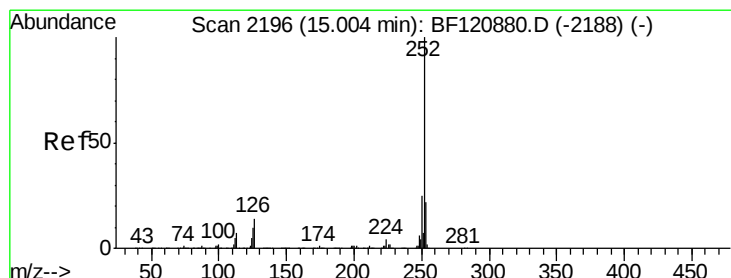
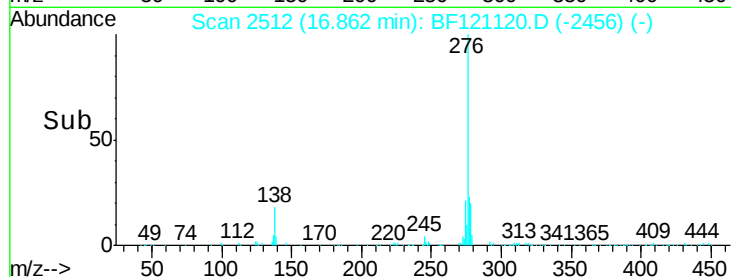
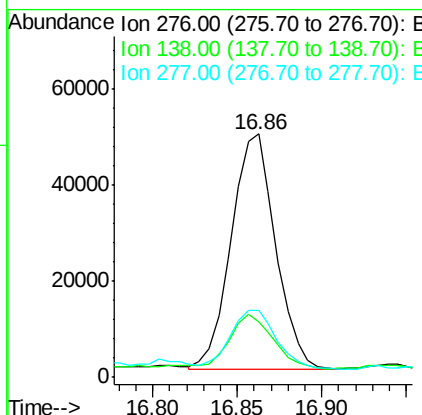
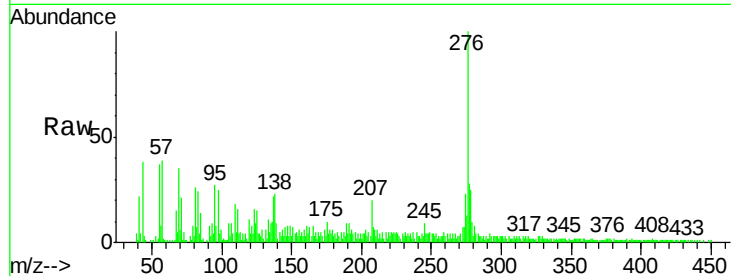
Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :
BNA_F
ClientSampleId :
2

Tot Ion:276 Resp: 89207

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.3	28.9
277	26.5	20.1	30.1



#88

Benzo(b)fluoranthene

Concen: 19.800 ng

RT: 15.00 min Scan# 2196

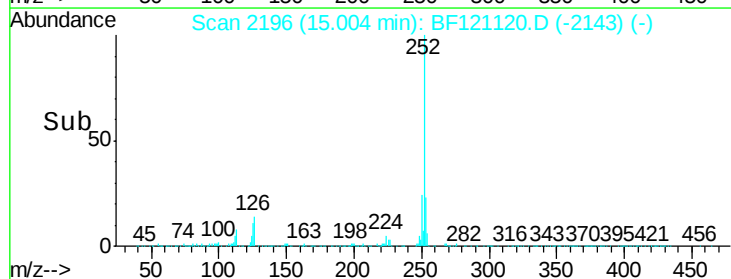
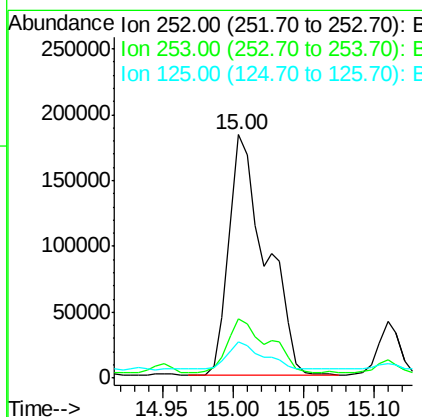
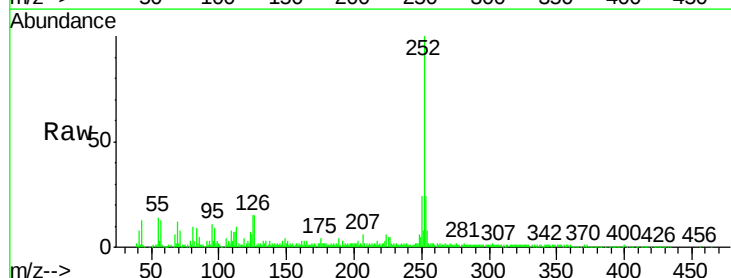
Delta R.T. 0.01 min

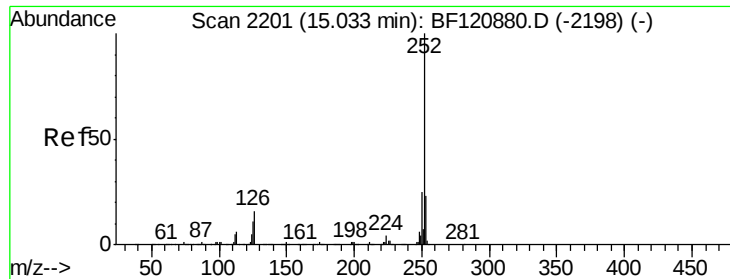
Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Tgt Ion:252 Resp: 335867

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	14.9	8.1	12.1

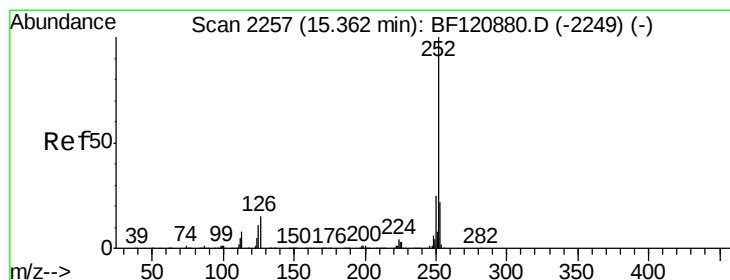
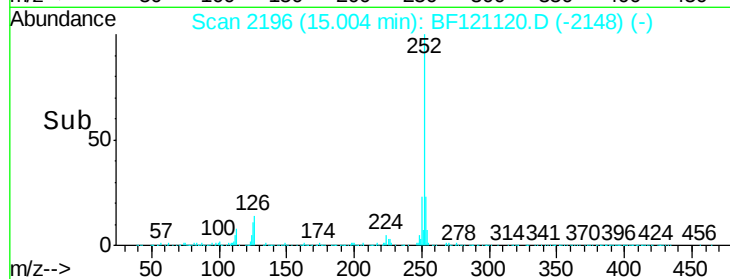
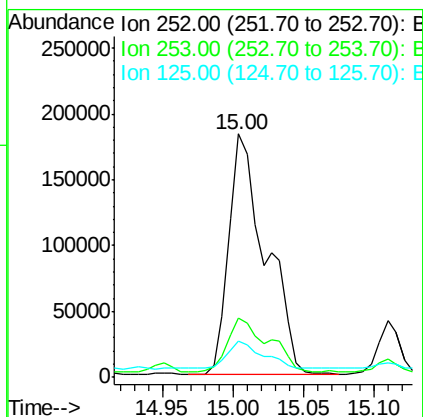
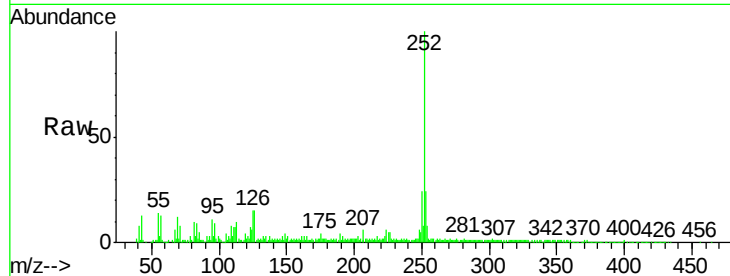




#89
Benzo(k)fluoranthene
Concen: 21.711 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.02 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

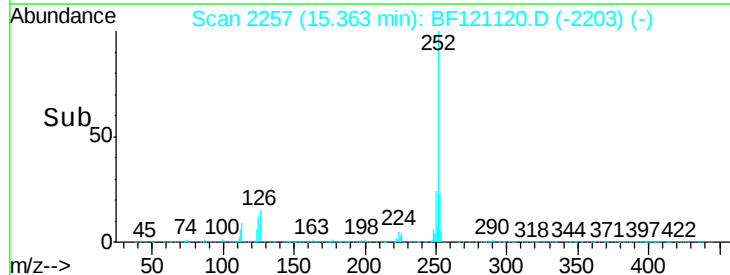
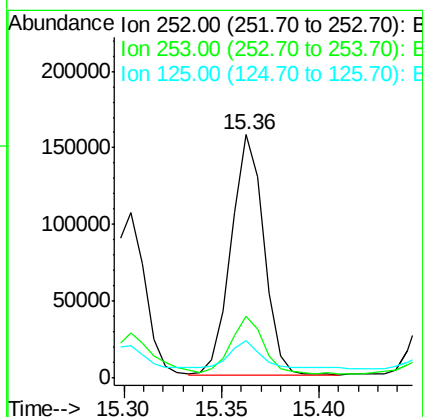
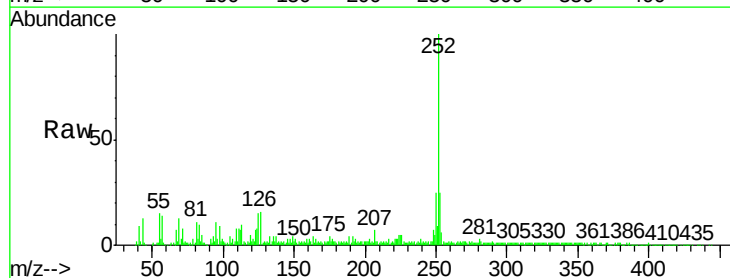
Instrument :
BNA_F
ClientSampleId :
2

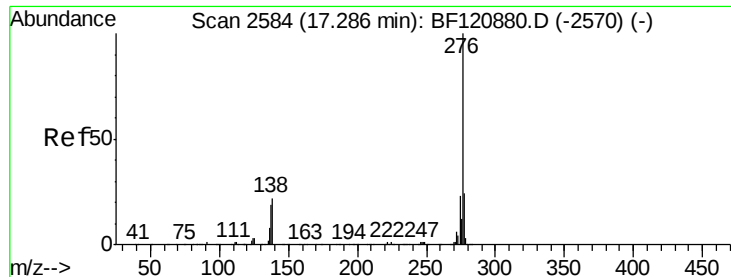
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.1	27.1
125	14.9	8.0	12.0



#90
Benzo(a)pyrene
Concen: 11.763 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.02 min
Lab File: BF121120.D
Acq: 30 Jul 2020 00:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.0	27.0
125	15.5	9.5	14.3





#92

Benzo(a,h,i)perylene

Concen: 5.632 ng

RT: 17.29 min Scan# 2585

Delta R.T. 0.03 min

Lab File: BF121120.D

Acq: 30 Jul 2020 00:34

Instrument :

BNA_F

ClientSampleId :

2

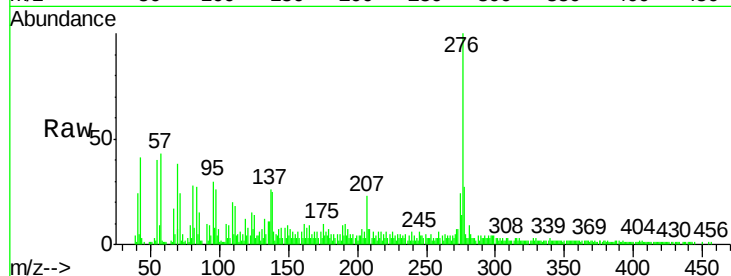
Tot Ion:276 Resp: 88527

Ion Ratio Lower Upper

276 100

277 26.8 19.4 29.0

138 25.3 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

