

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100620\
 Data File : BF121845.D
 Acq On : 6 Oct 2020 11:17
 Operator : JU/CG
 Sample : L4247-10DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-20(12-14)DL

Quant Time: Oct 06 11:52:00 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

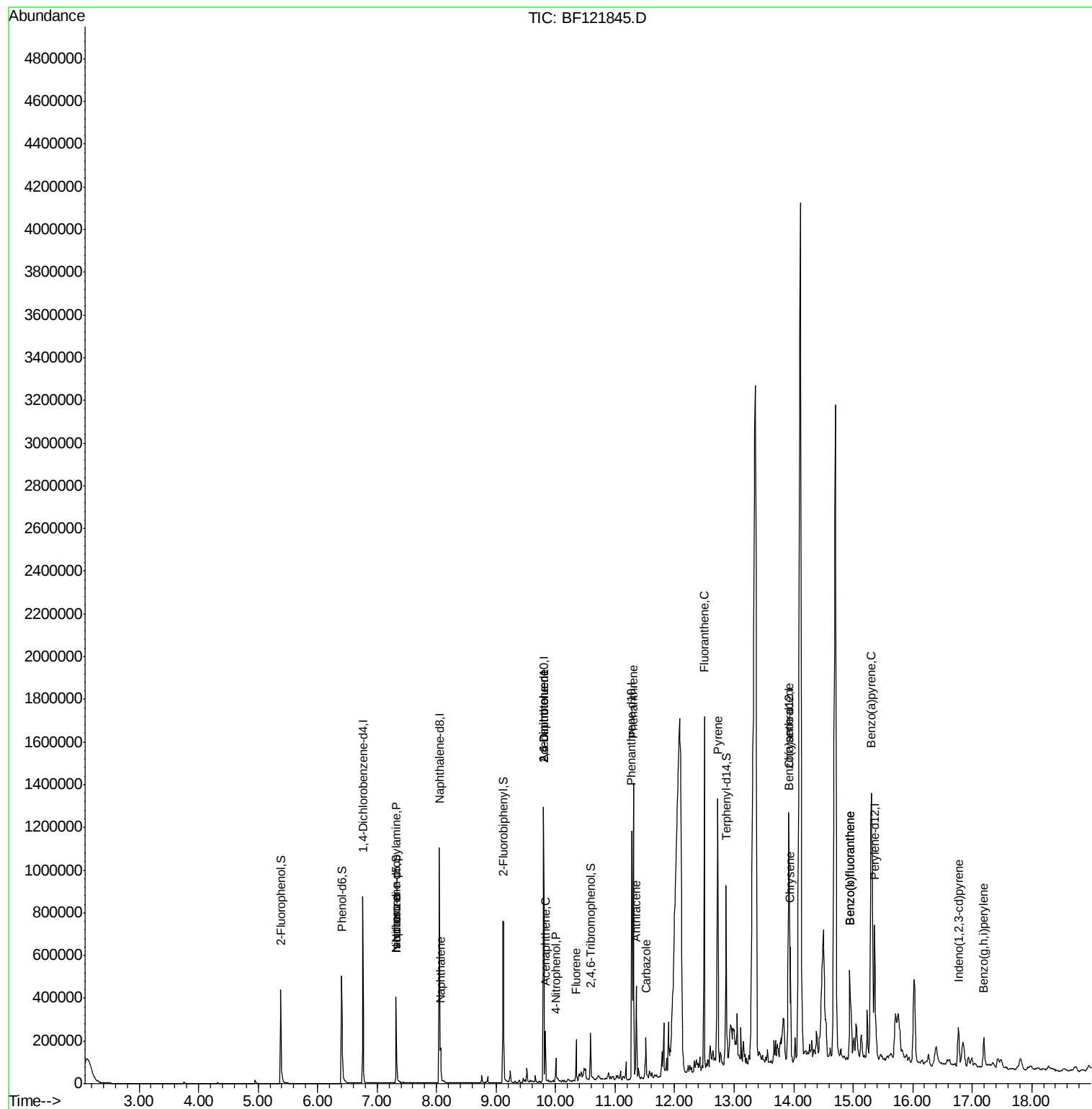
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	122445	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	480966	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	246487	20.00	ng	-0.01
64) Phenanthrene-d10	11.28	188	443284	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	271407	20.00	ng	-0.01
86) Perylene-d12	15.36	264	251289	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	139761	16.96	ng	0.00
7) Phenol-d6	6.40	99	203113	18.79	ng	-0.01
23) Nitrobenzene-d5	7.32	82	135767	15.16	ng	-0.02
42) 2,4,6-Tribromophenol	10.59	330	22540	7.36	ng	-0.02
45) 2-Fluorobiphenyl	9.12	172	265038	16.29	ng	-0.01
79) Terphenyl-d14	12.86	244	231056	17.25	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.32	70	17346	2.784	ng	# 83
25) Isophorone	7.32	82	135765	7.529	ng	# 67
31) Naphthalene	8.07	128	66312	2.612	ng	# 99
51) 2,6-Dinitrotoluene	9.80	165	32356	8.504	ng	# 21
52) Acenaphthene	9.83	154	46797	3.101	ng	# 99
56) 4-Nitrophenol	10.00	139	13987	3.979	ng	# 13
57) 2,4-Dinitrotoluene	9.80	165	32356	6.760	ng	# 20
58) Fluorene	10.35	166	50652	3.117	ng	# 96
71) Phenanthrene	11.31	178	522319	21.626	ng	# 99
72) Anthracene	11.36	178	151828	6.092	ng	# 98
73) Carbazole	11.52	167	68069	3.026	ng	# 98
75) Fluoranthene	12.50	202	625624	24.266	ng	# 98
78) Pvrene	12.73	202	497404	25.084	ng	# 99
81) Benzo(a)anthracene	13.91	228	231178	13.464	ng	# 99
83) Chrysene	13.94	228	187924	10.808	ng	# 96
87) Indeno(1,2,3-cd)pyrene	16.77	276	112142	6.853	ng	# 97
88) Benzo(b)fluoranthene	14.94	252	291828	17.372	ng	# 98
89) Benzo(k)fluoranthene	14.94	252	291828	18.970	ng	# 98
90) Benzo(a)pvrene	15.30	252	153479	10.748	ng	# 93
92) Benzo(a,h,i)perylene	17.20	276	110410	8.245	ng	# 98

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

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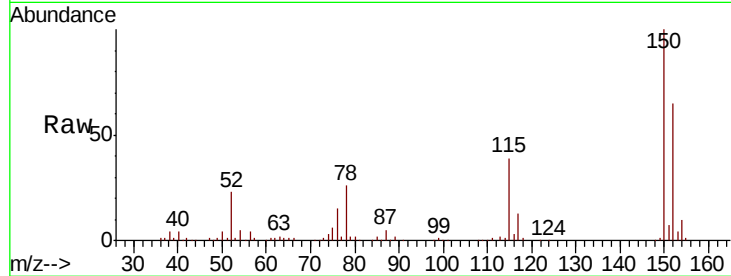


#1

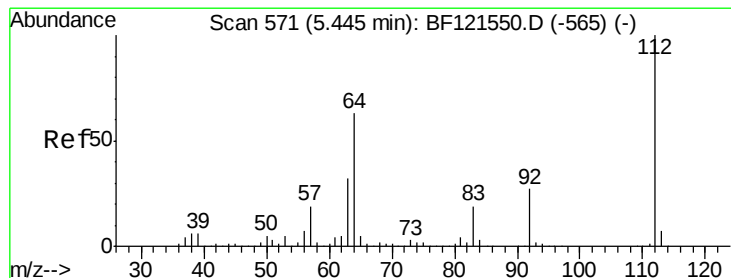
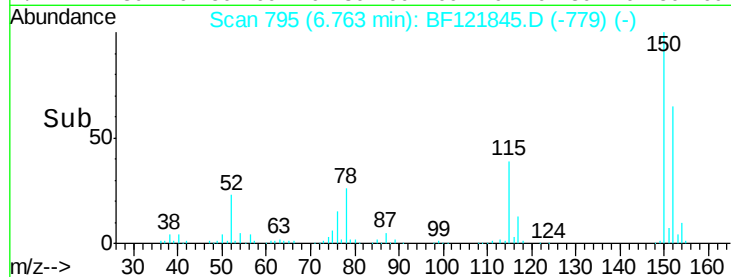
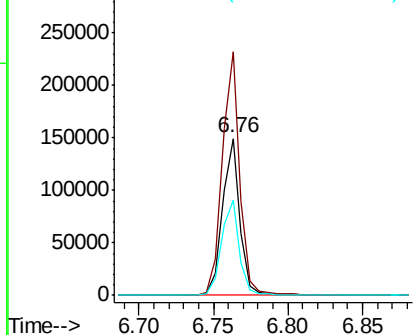
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.76 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

Tot Ion:152 Resp: 122445
Ion Ratio Lower Upper
152 100
150 155.0 125.3 187.9
115 60.4 51.9 77.9



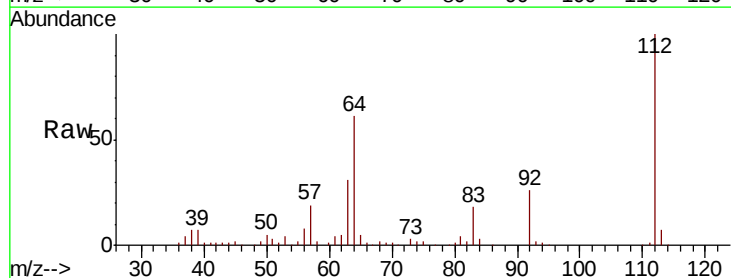
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



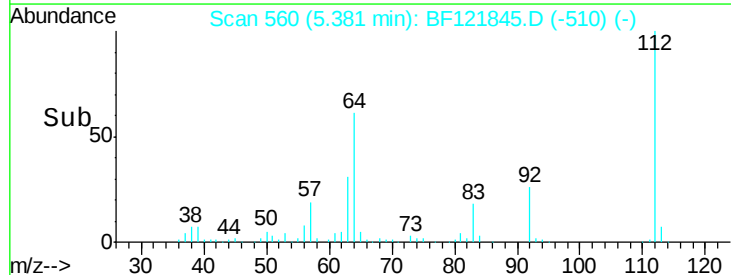
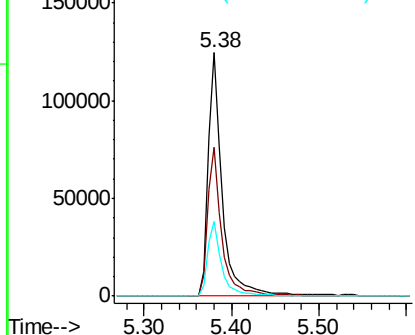
#5

2-Fluorophenol
Concen: 16.963 ng
RT: 5.38 min Scan# 560
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion:112 Resp: 139761
Ion Ratio Lower Upper
112 100
64 61.1 50.4 75.6
63 30.8 25.8 38.6



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: 18.790 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

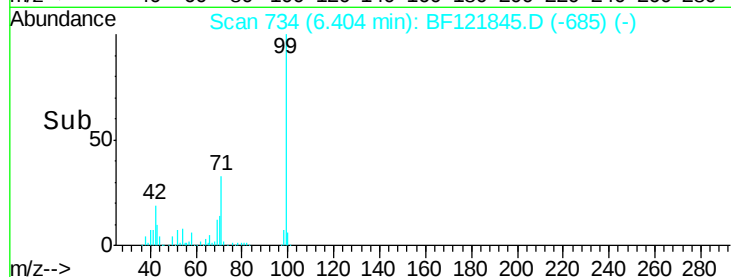
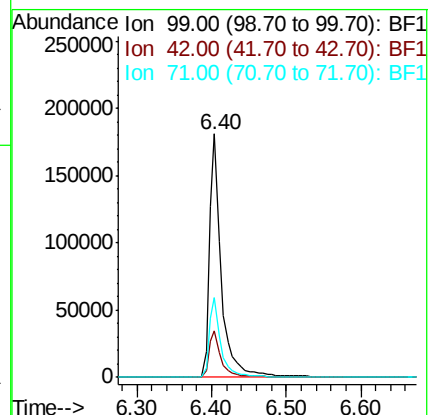
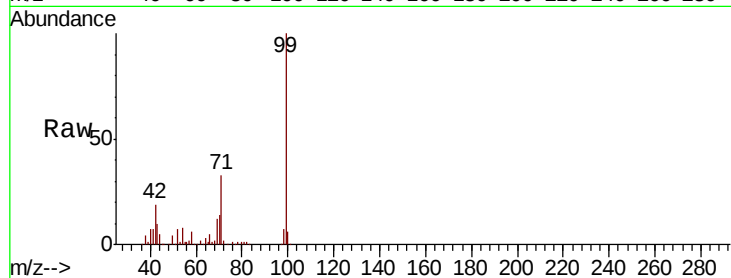
Tot Ion: 99 Resp: 203113

Ion Ratio Lower Upper

99 100

42 19.1 15.9 23.9

71 32.7 27.1 40.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.784 ng

RT: 7.32 min Scan# 890

Delta R.T. 0.13 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Tgt Ion: 70 Resp: 17346

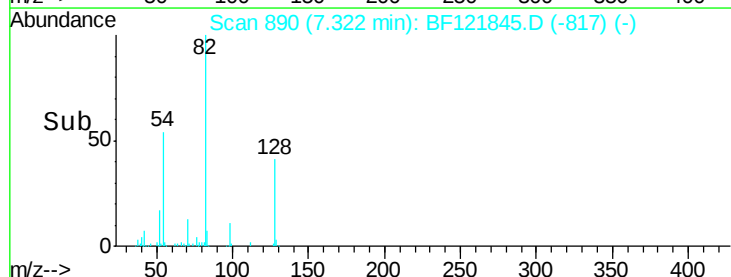
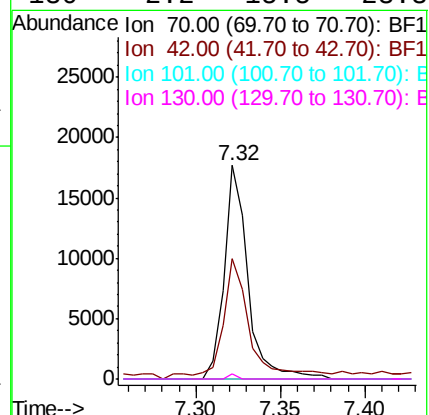
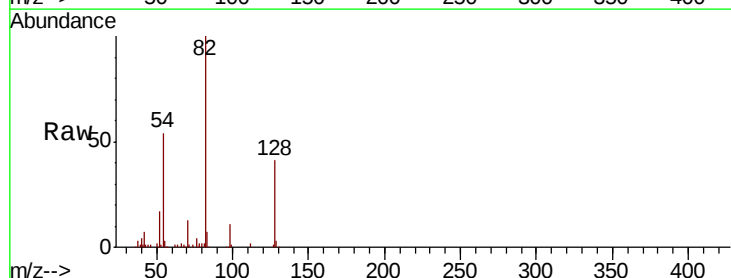
Ion Ratio Lower Upper

70 100

42 56.1 50.2 75.4

101 0.0 7.5 11.3#

130 2.2 15.5 23.3#

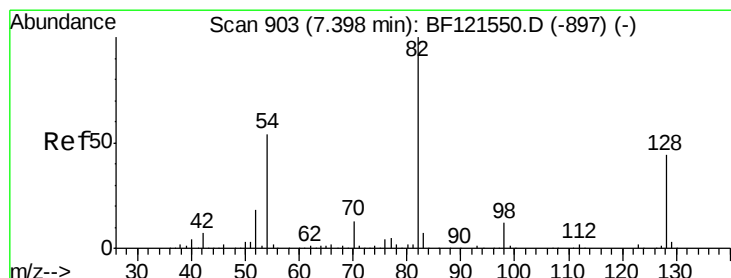
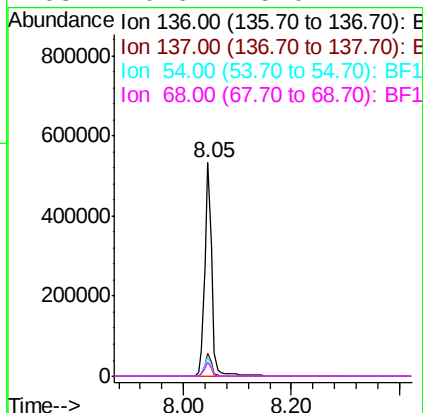
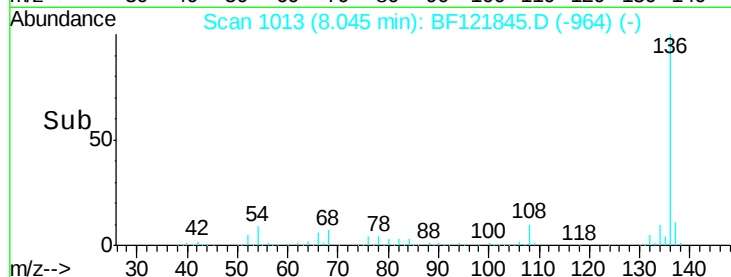
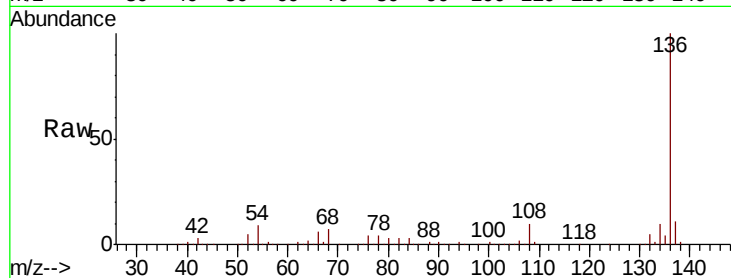




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.05 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

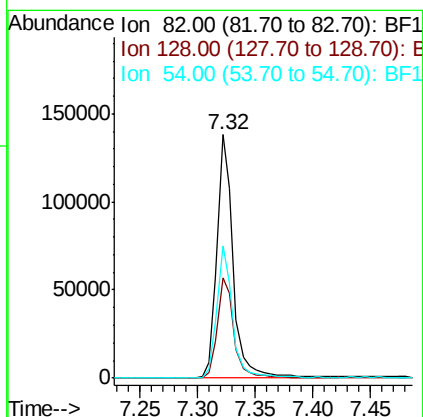
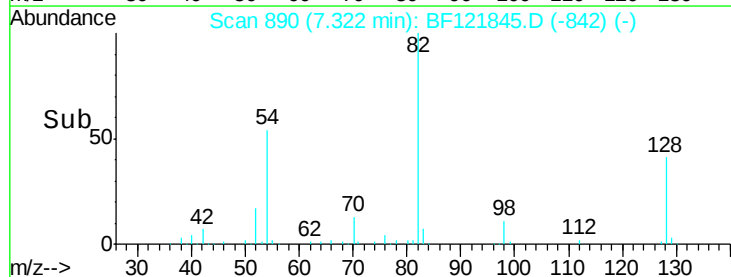
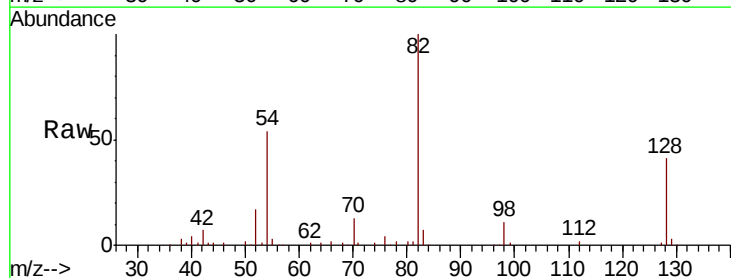
Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

Tot Ion:136	Resp:	480966
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.6 13.0
54	9.3	7.1 10.7
68	6.6	5.0 7.4



#23
Nitrobenzene-d5
Concen: 15.156 ng
RT: 7.32 min Scan# 890
Delta R.T. -0.02 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion: 82	Resp:	135767
Ion Ratio	Lower	Upper
82	100	
128	41.0	35.0 52.4
54	54.3	43.9 65.9





#25

Isophorone

Concen: 7.529 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.28 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

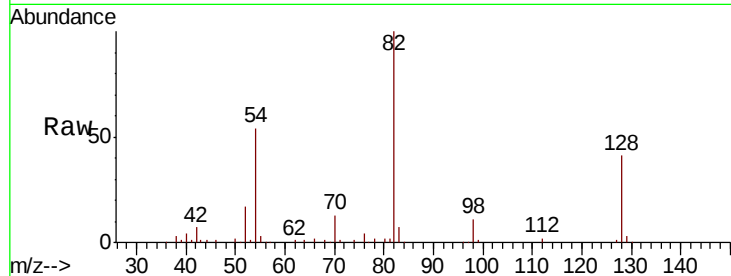
Tot Ion: 82 Resp: 135765

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

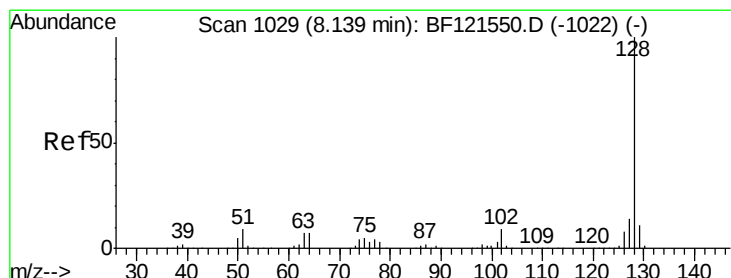
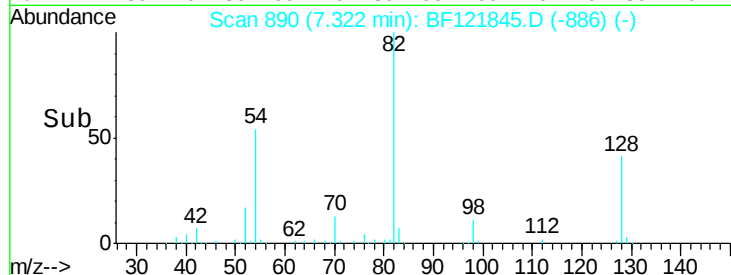
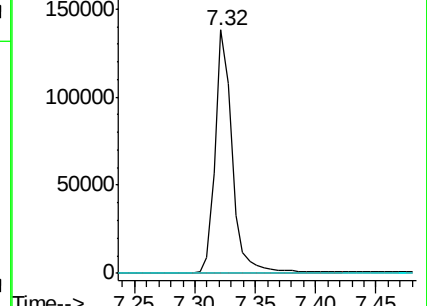
138 0.0 13.4 20.0#



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: 2.612 ng

RT: 8.07 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

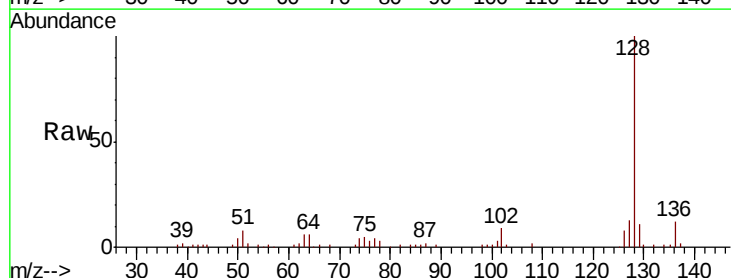
Tgt Ion: 128 Resp: 66312

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

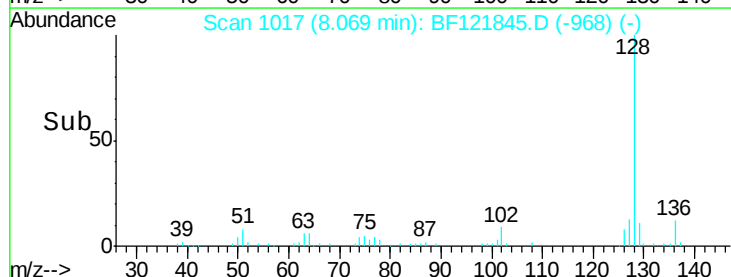
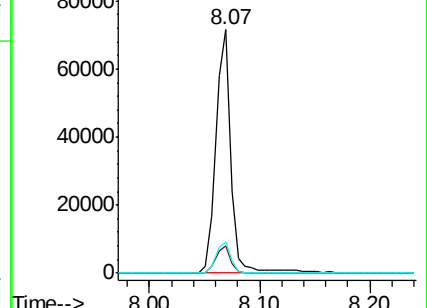
127 12.9 10.8 16.2

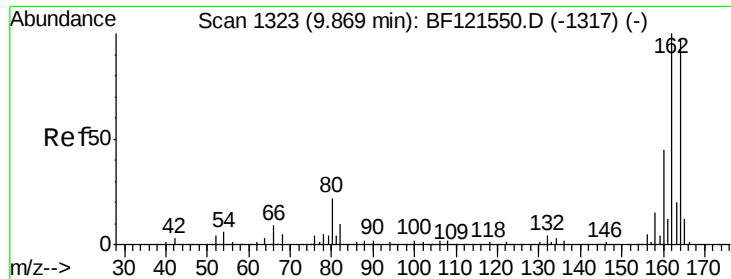


Abundance Ion 128.00 (127.70 to 128.70): E

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: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

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ClientSampleId :

B-20(12-14)DL

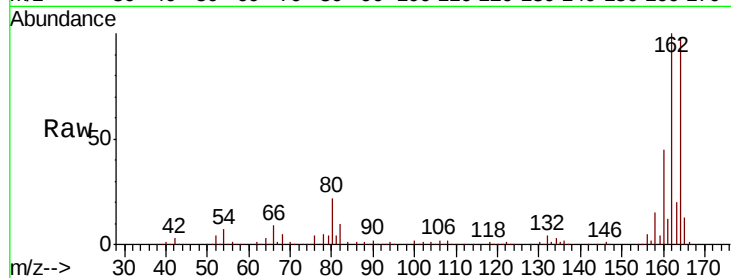
Tot Ion:164 Resp: 246487

Ion Ratio Lower Upper

164 100

162 102.6 83.2 124.8

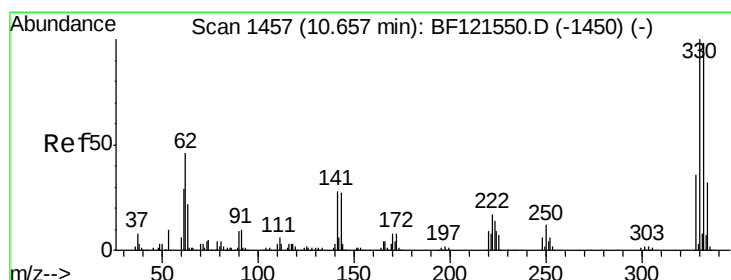
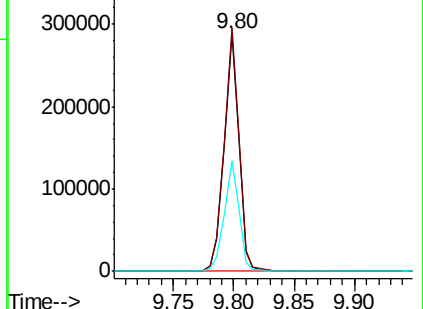
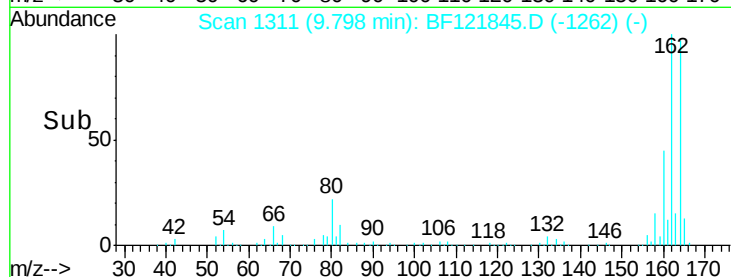
160 46.3 37.5 56.3



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: 7.358 ng

RT: 10.59 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

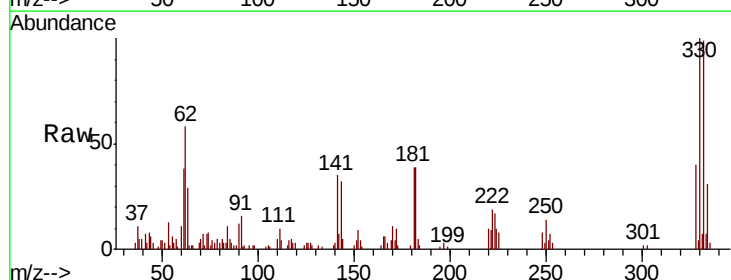
Tgt Ion:330 Resp: 22540

Ion Ratio Lower Upper

330 100

332 95.1 77.3 115.9

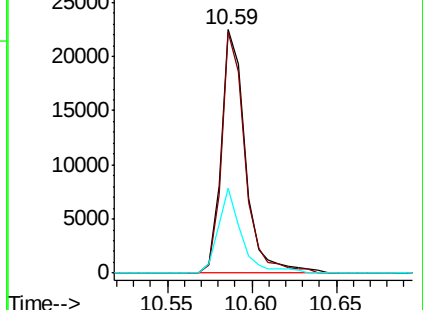
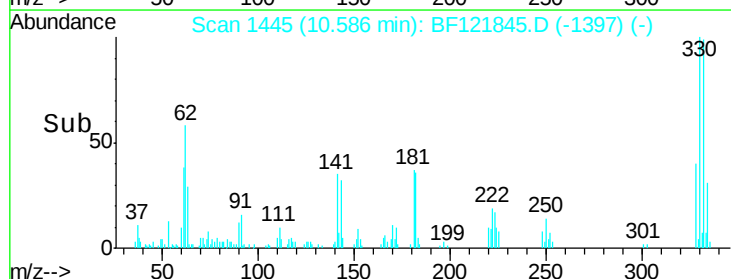
141 33.4 22.3 33.5

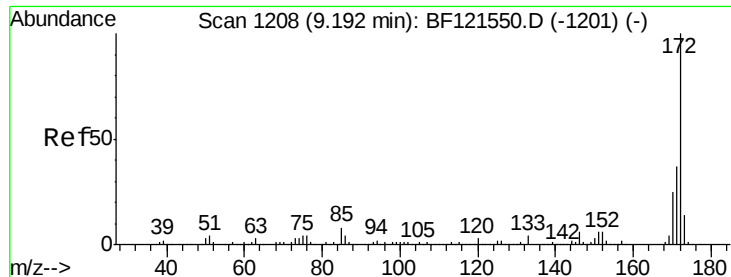


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

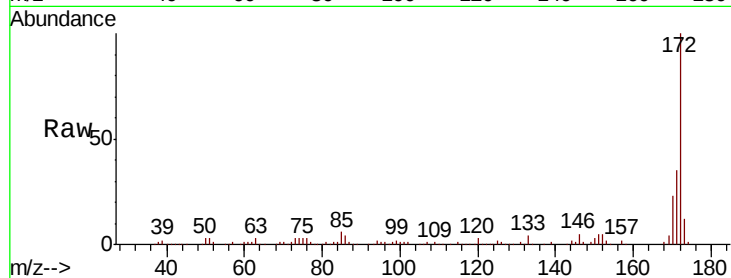




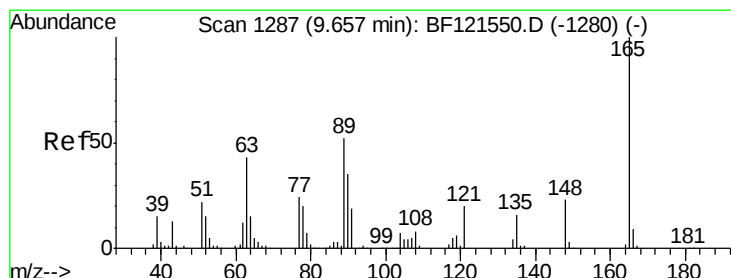
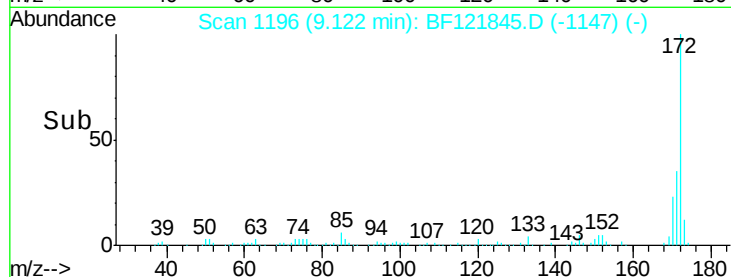
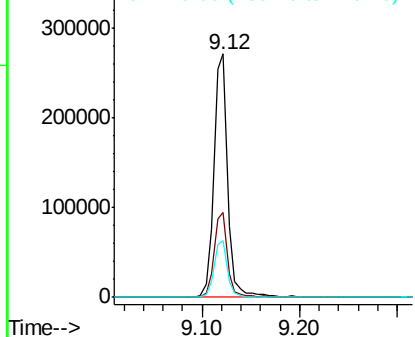
#45
 2-Fluorobiphenyl
 Concen: 16.285 ng
 RT: 9.12 min Scan# 1196
 Delta R.T. -0.01 min
 Lab File: BF121845.D
 Acq: 6 Oct 2020 11:17

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.1	43.7
170	23.1	19.8	29.6

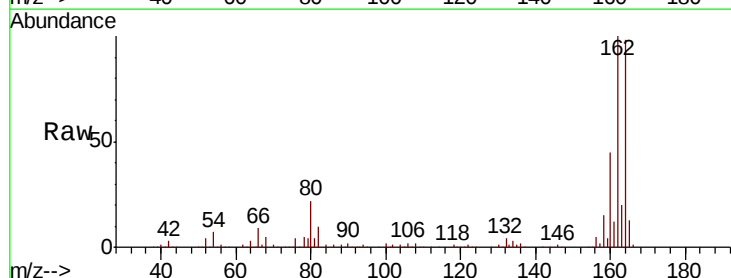


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

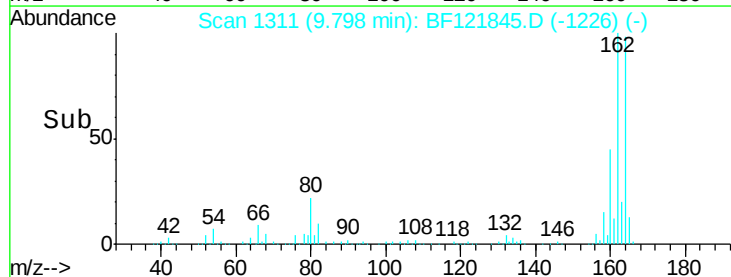
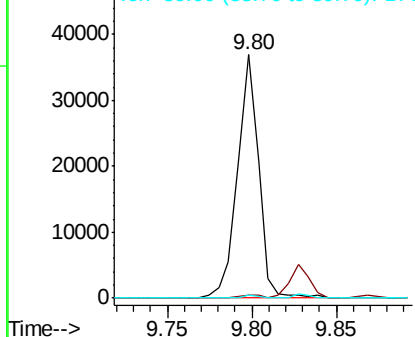


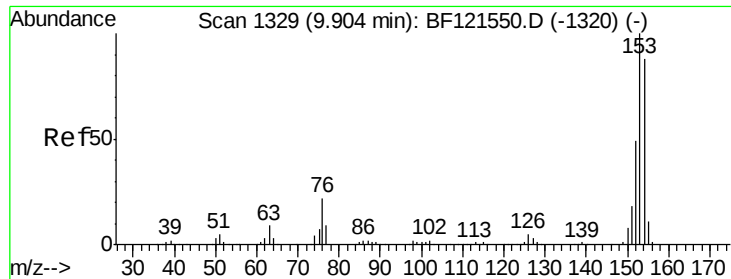
#51
 2,6-Dinitrotoluene
 Concen: 8.504 ng
 RT: 9.80 min Scan# 1311
 Delta R.T. 0.20 min
 Lab File: BF121845.D
 Acq: 6 Oct 2020 11:17

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	51.8	77.6#
89	1.4	49.0	73.6#



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: 3.101 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

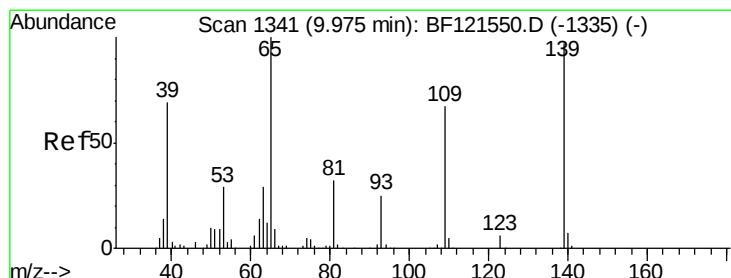
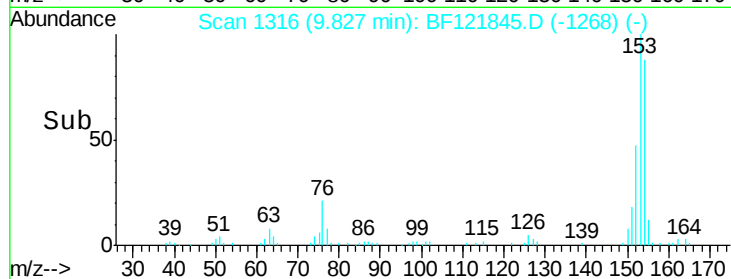
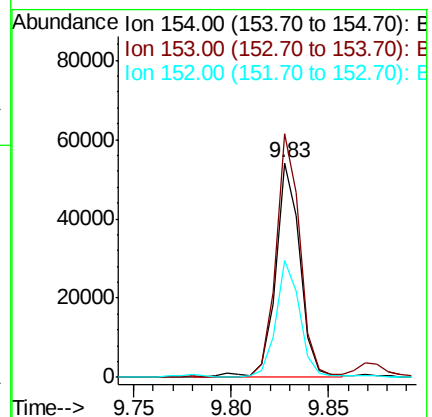
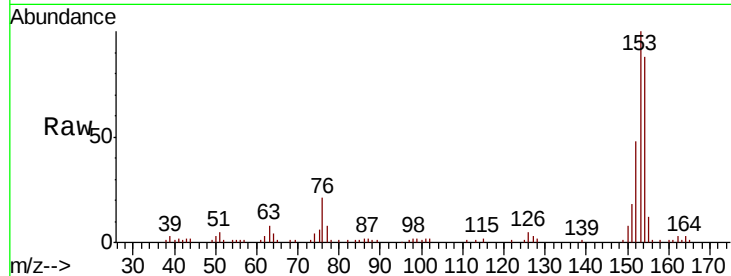
Tot Ion:154 Resp: 46797

Ion Ratio Lower Upper

154 100

153 113.4 89.8 134.8

152 54.2 43.2 64.8



#56

4-Nitrophenol

Concen: 3.979 ng

RT: 10.00 min Scan# 1346

Delta R.T. 0.06 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

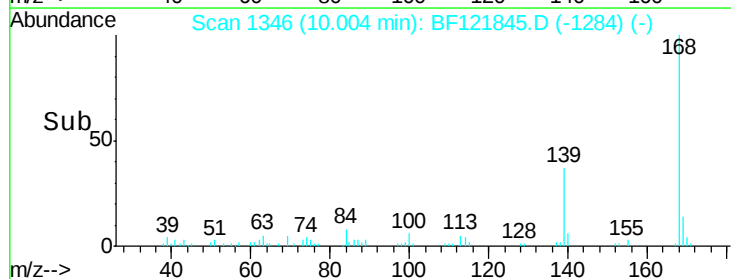
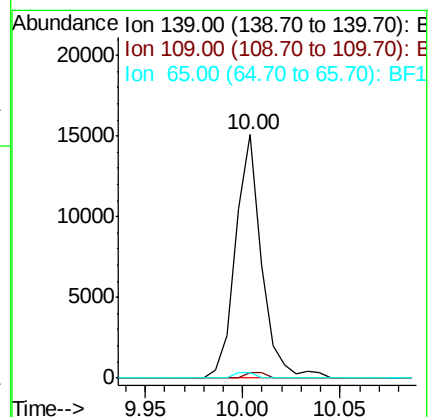
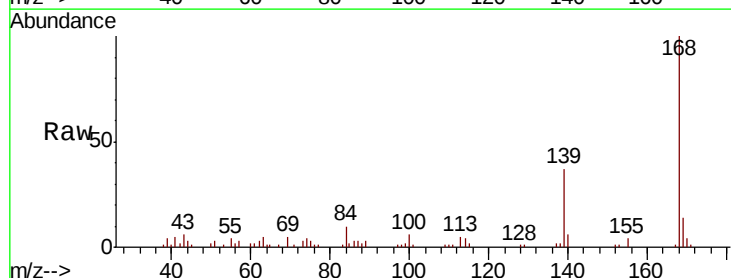
Tgt Ion:139 Resp: 13987

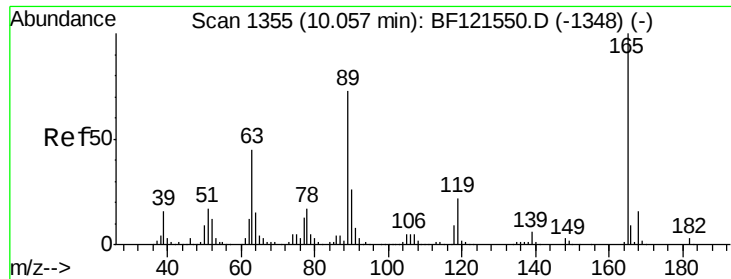
Ion Ratio Lower Upper

139 100

109 2.2 45.4 85.4#

65 2.1 68.4 108.4#

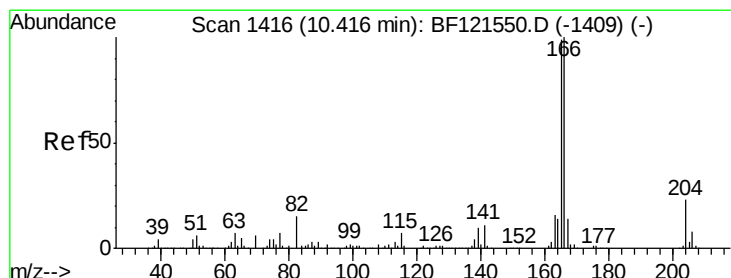
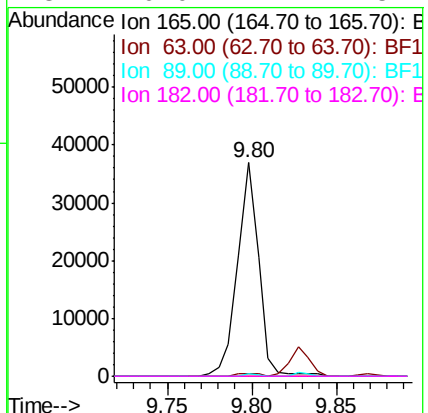
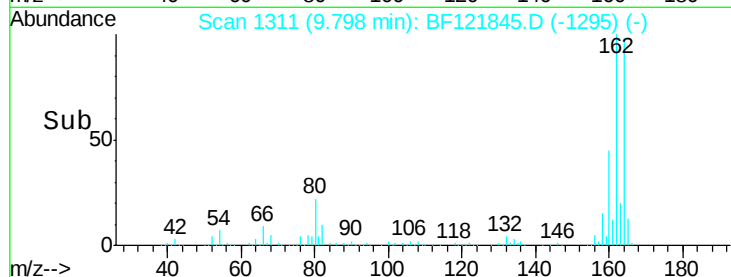
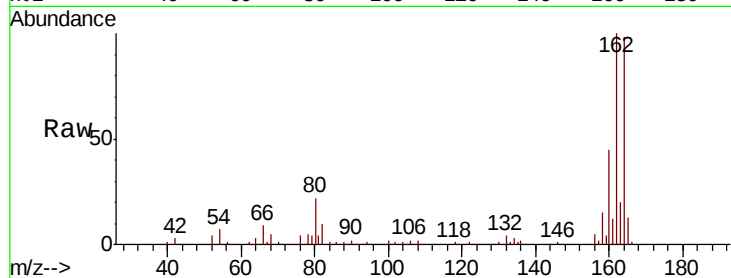




#57
2,4-Dinitrotoluene
Concen: 6.760 ng
RT: 9.80 min Scan# 1311
Delta R.T. -0.21 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

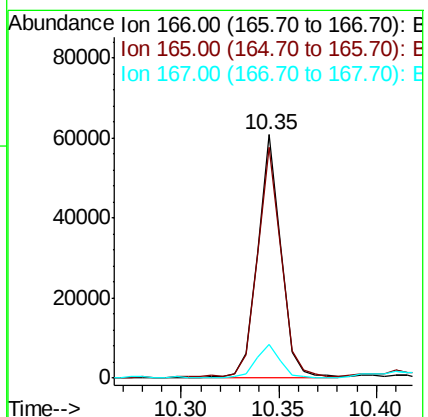
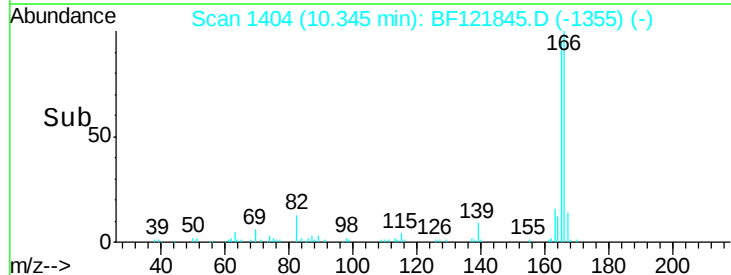
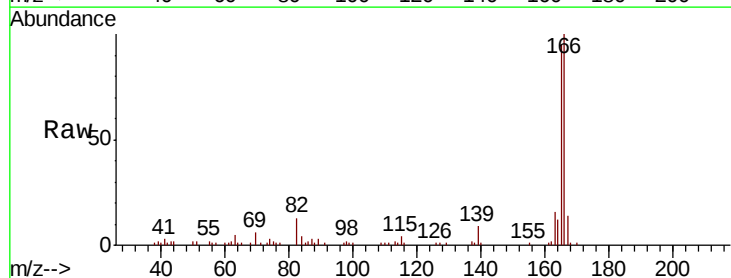
Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

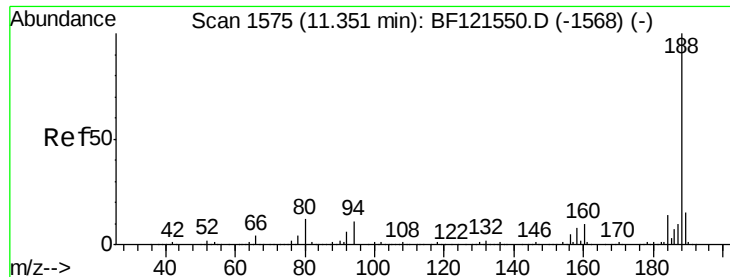
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	41.3	61.9#
89	1.4	61.8	92.8#
182	0.0	2.1	3.1#



#58
Fluorene
Concen: 3.117 ng
RT: 10.35 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.8	79.1	118.7
167	13.6	11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

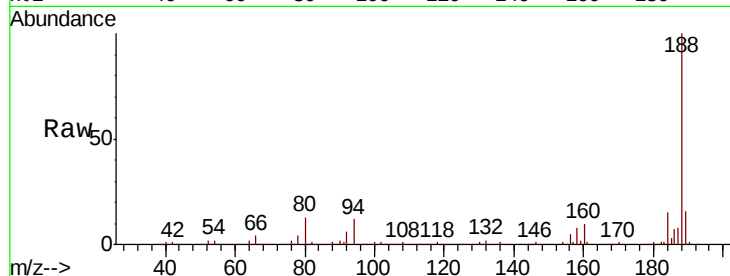
Tot Ion:188 Resp: 443284

Ion Ratio Lower Upper

188 100

94 11.5 8.3 12.5

80 12.8 9.1 13.7

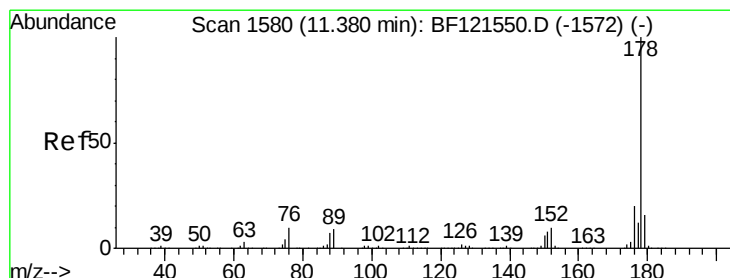
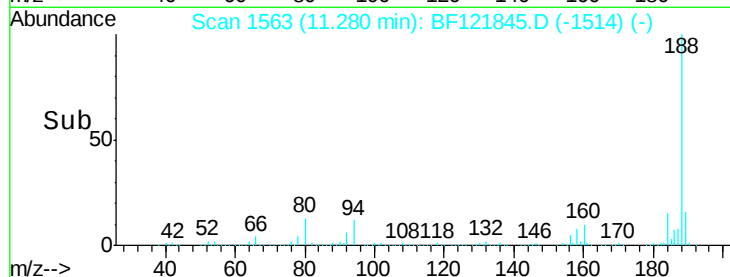


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->



#71

Phenanthrene

Concen: 21.626 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

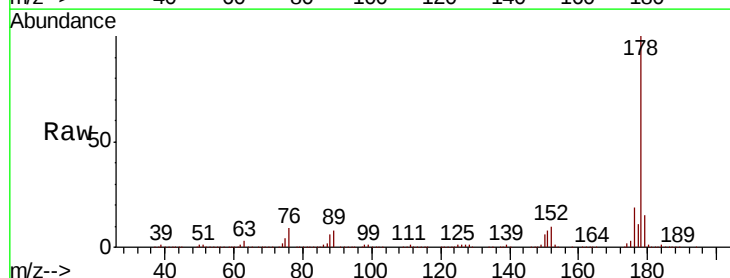
Tgt Ion:178 Resp: 522319

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

179 15.2 12.2 18.4

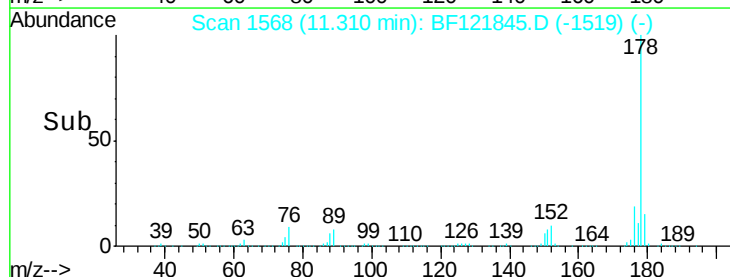


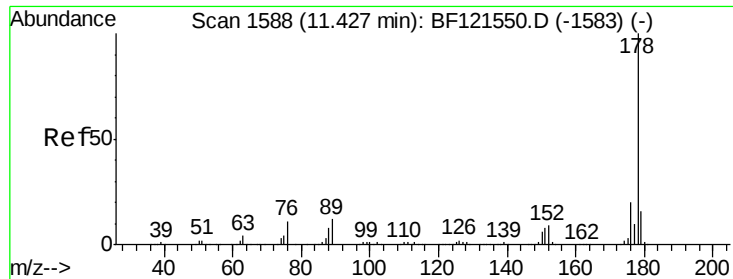
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->





#72

Anthracene

Concen: 6.092 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

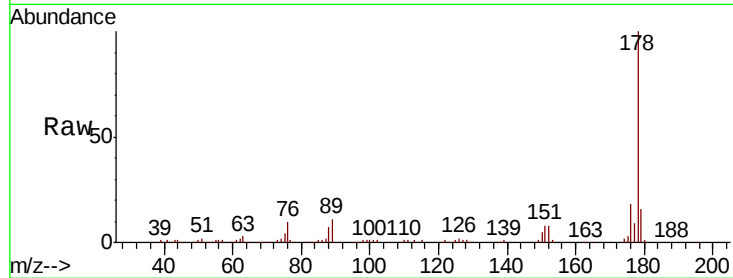
Tot Ion:178 Resp: 151828

Ion Ratio Lower Upper

178 100

176 18.2 15.7 23.5

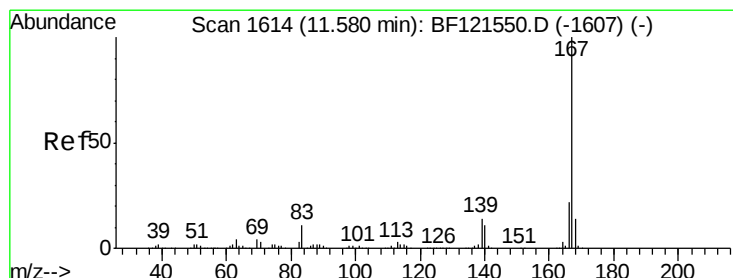
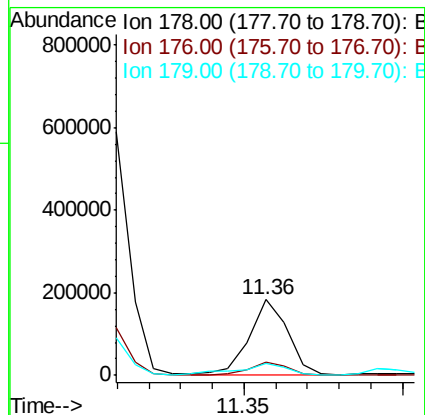
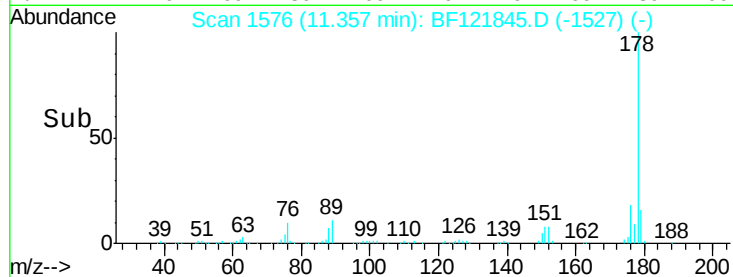
179 15.5 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.026 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

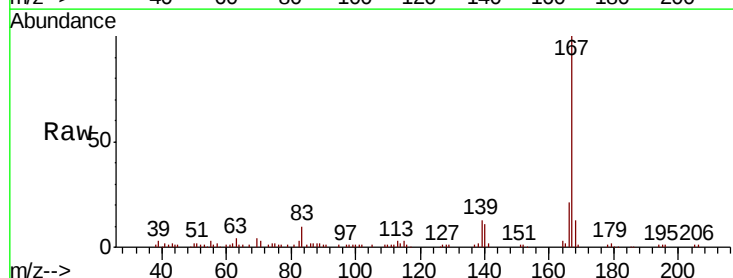
Tgt Ion:167 Resp: 68069

Ion Ratio Lower Upper

167 100

166 21.0 17.8 26.6

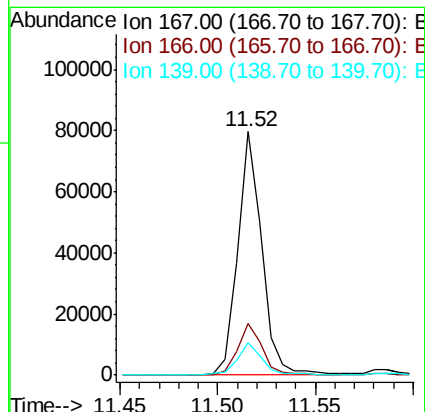
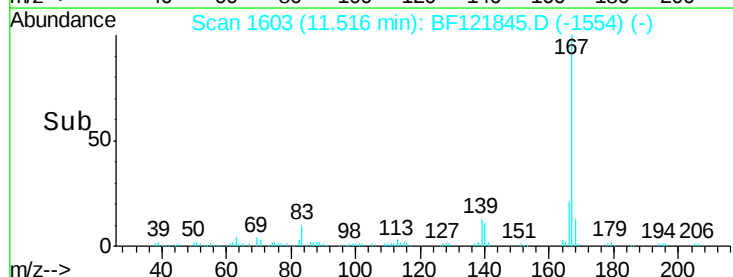
139 13.3 10.8 16.2

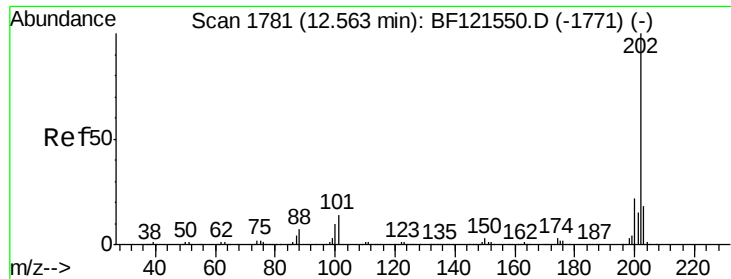


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 24.266 ng

RT: 12.50 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

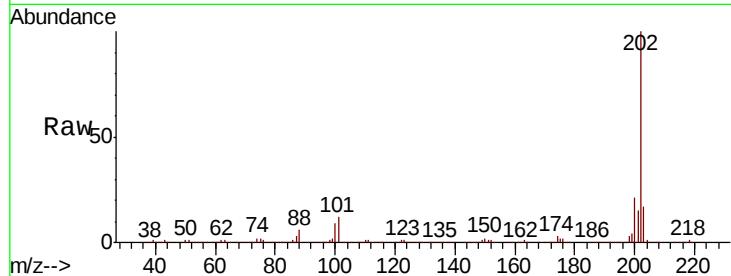
Tot Ion:202 Resp: 625624

Ion Ratio Lower Upper

202 100

101 12.3 0.0 33.4

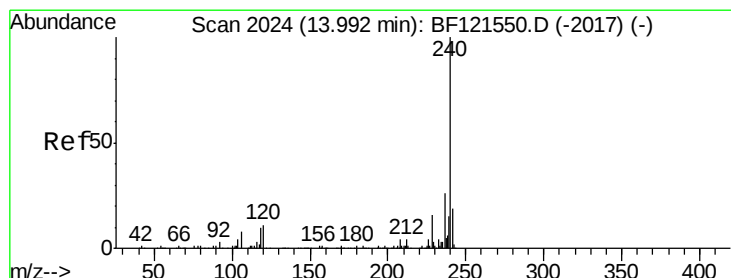
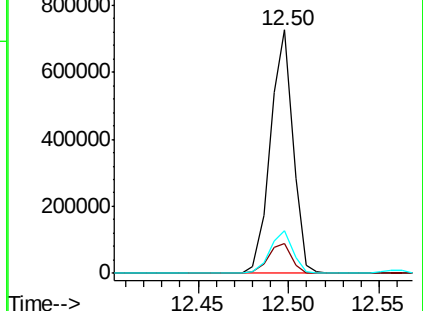
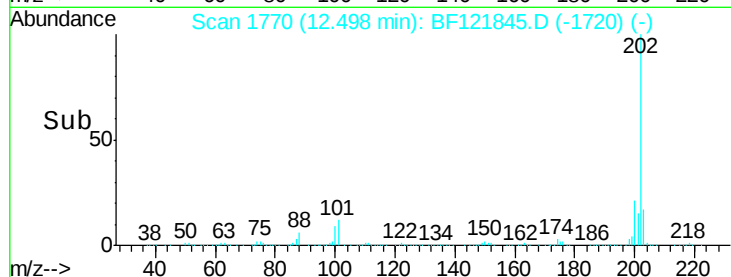
203 17.5 0.0 37.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

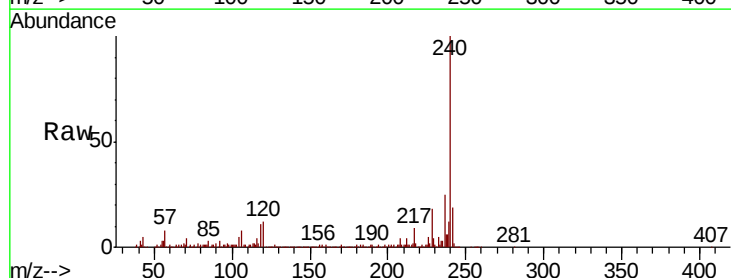
Tgt Ion:240 Resp: 271407

Ion Ratio Lower Upper

240 100

120 12.3 9.2 13.8

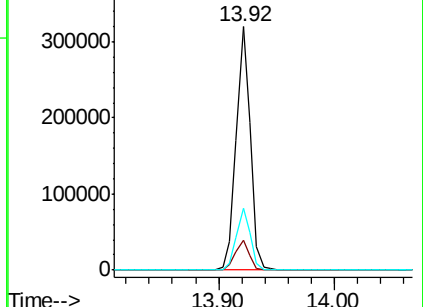
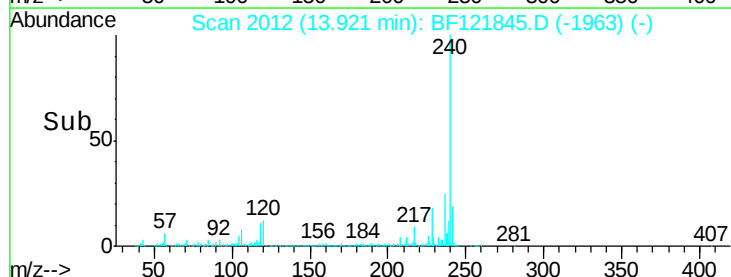
236 25.4 20.9 31.3

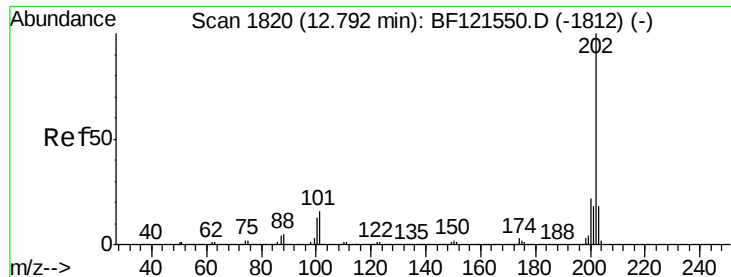


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 25.084 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

Instrument :

BNA_F

ClientSampleId :

B-20(12-14)DL

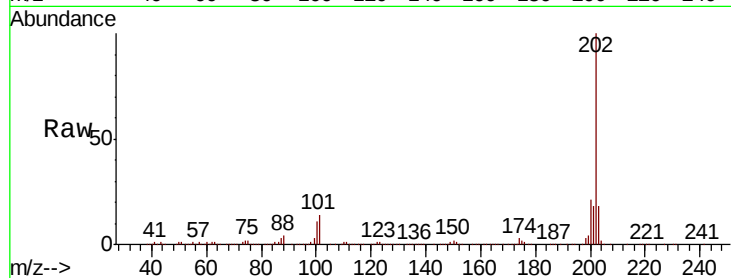
Tot Ion:202 Resp: 497404

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

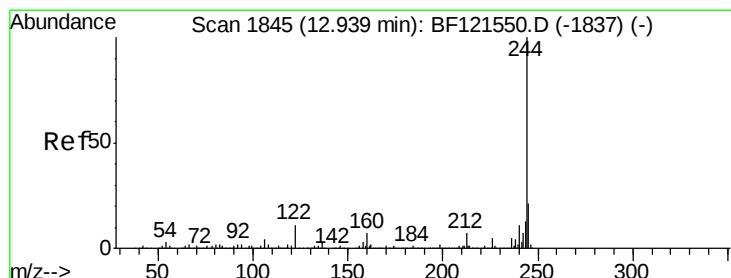
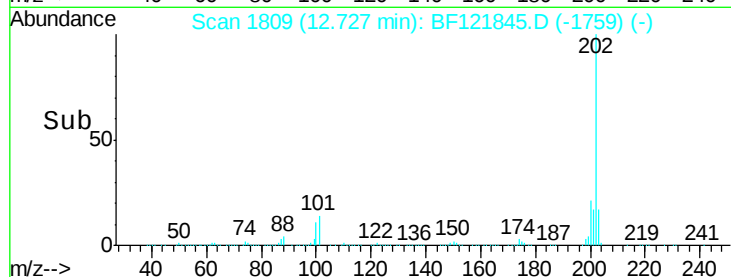
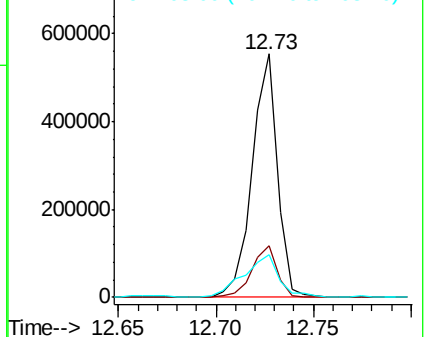
203 17.7 14.6 21.8



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: 17.247 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF121845.D

Acq: 6 Oct 2020 11:17

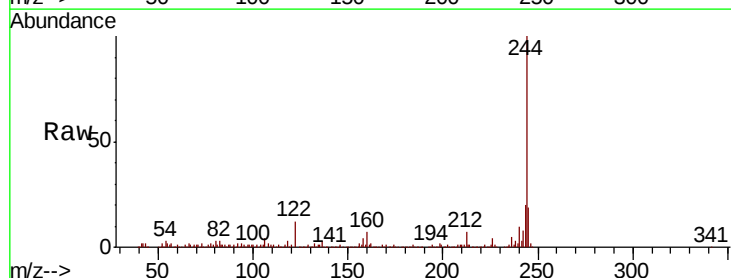
Tgt Ion:244 Resp: 231056

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

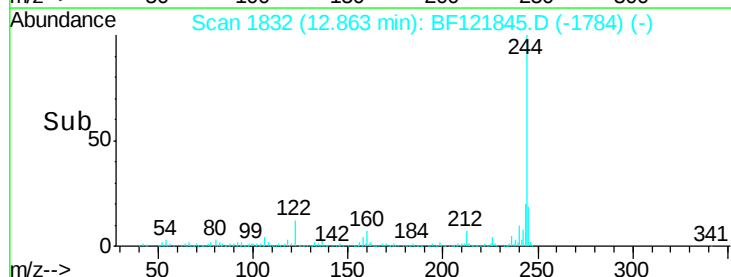
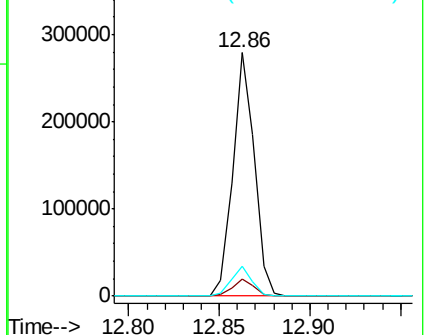
122 12.1 8.1 12.1#

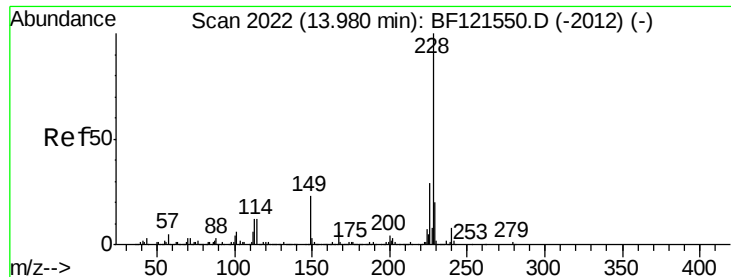


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

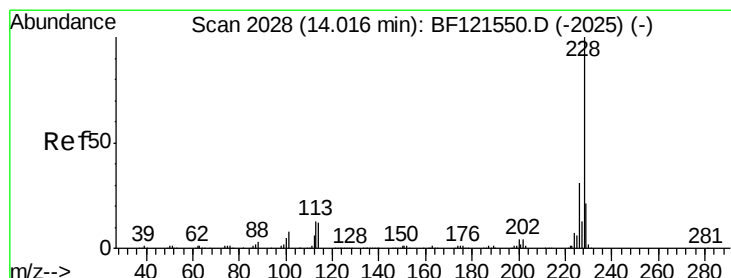
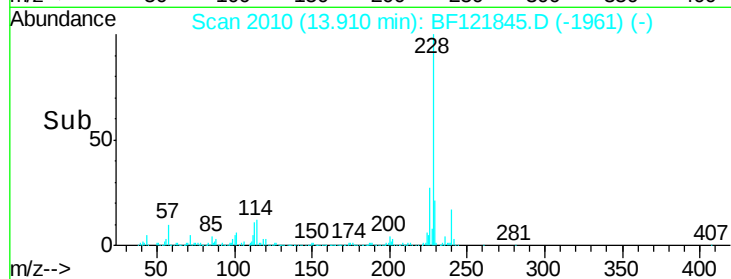
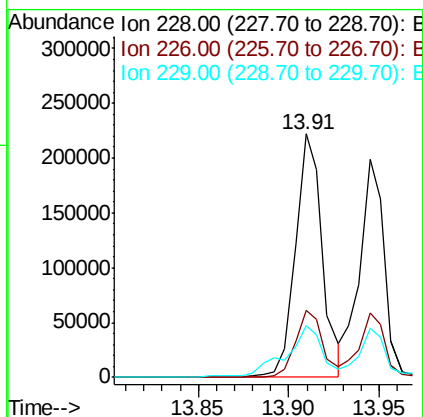
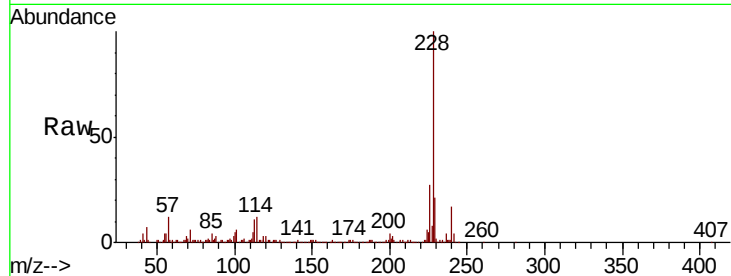




#81
Benzo(a)anthracene
Concen: 13.464 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

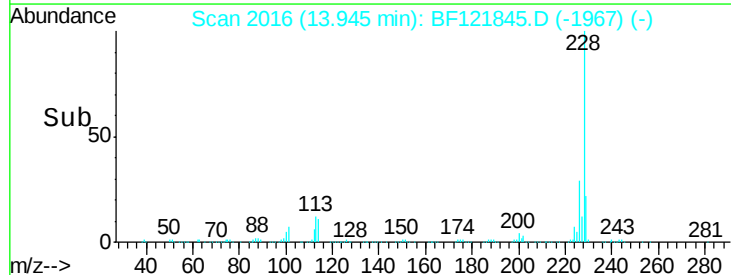
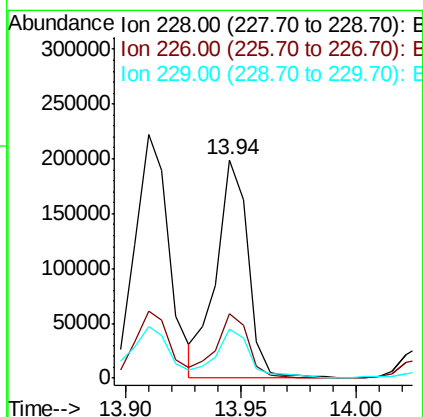
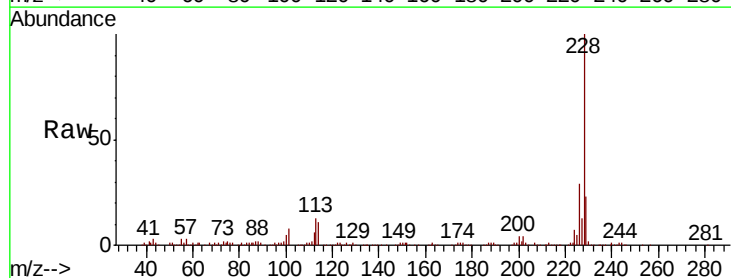
Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

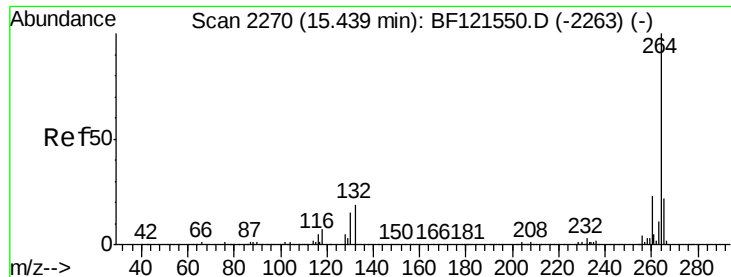
Tot Ion:228 Resp: 231178
Ion Ratio Lower Upper
228 100
226 27.3 22.3 33.5
229 21.0 16.2 24.4



#83
Chrysene
Concen: 10.808 ng
RT: 13.94 min Scan# 2016
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion:228 Resp: 187924
Ion Ratio Lower Upper
228 100
226 29.4 24.6 37.0
229 22.5 15.9 23.9

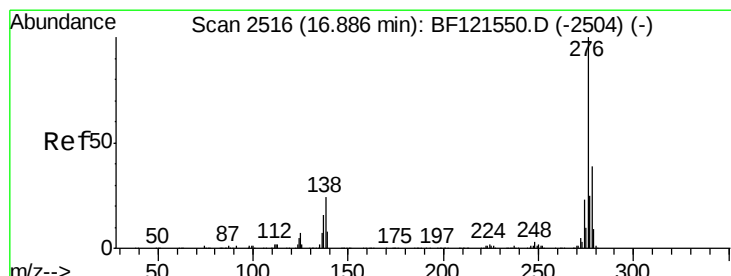
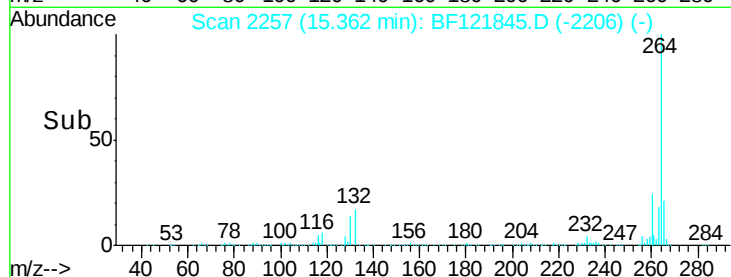
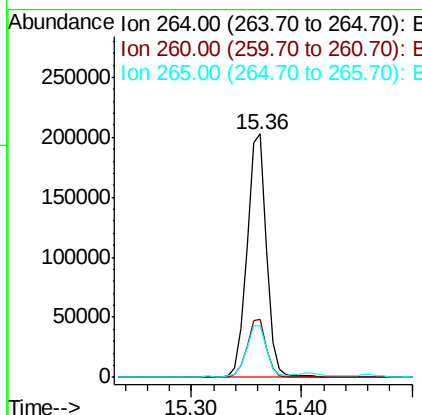
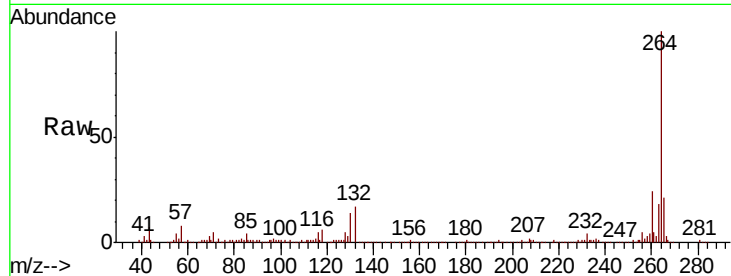




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.00 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

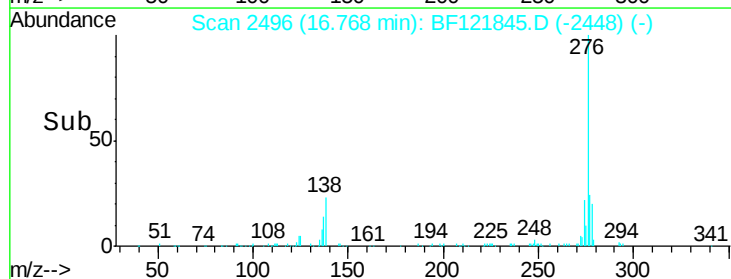
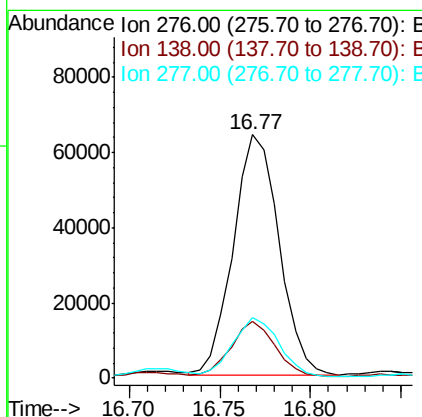
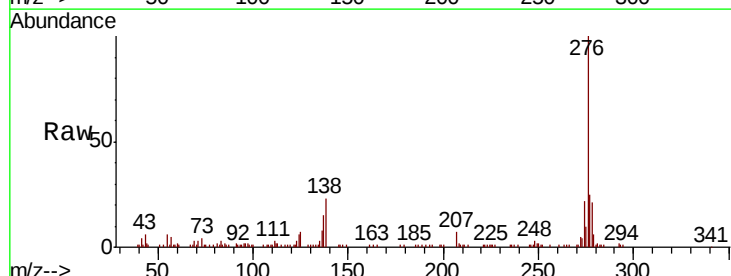
Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

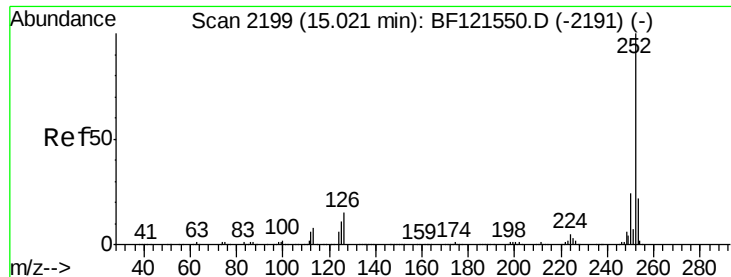
Tot Ion:264 Resp: 251289
Ion Ratio Lower Upper
264 100
260 23.6 18.7 28.1
265 21.1 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.853 ng
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion:276 Resp: 112142
Ion Ratio Lower Upper
276 100
138 23.2 19.9 29.9
277 24.6 20.4 30.6

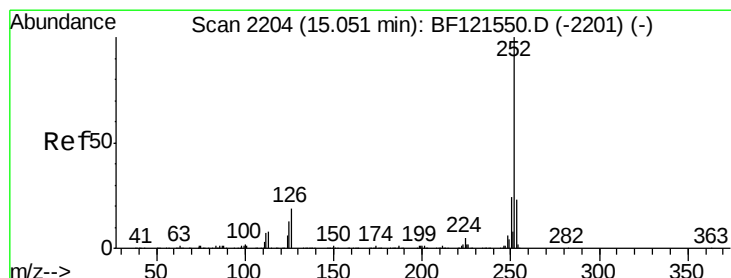
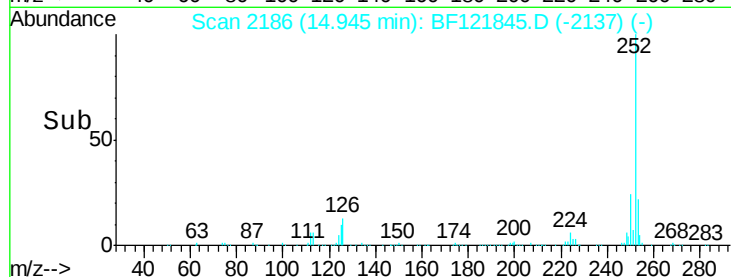
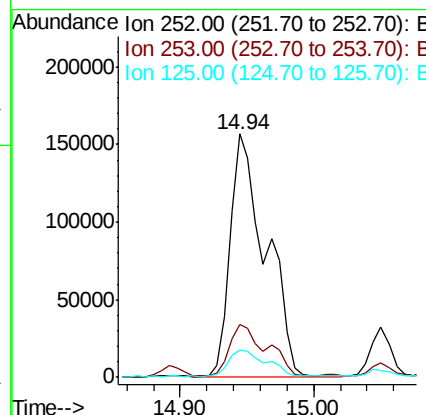
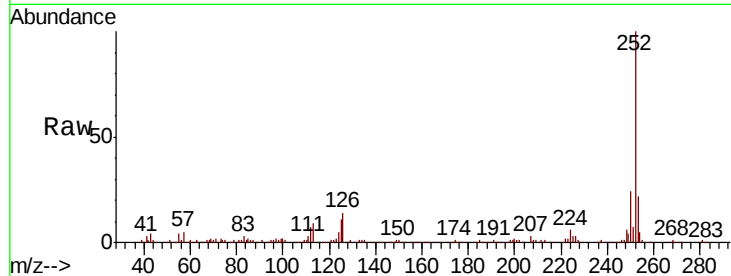




#88
Benzo(b)fluoranthene
Concen: 17.372 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

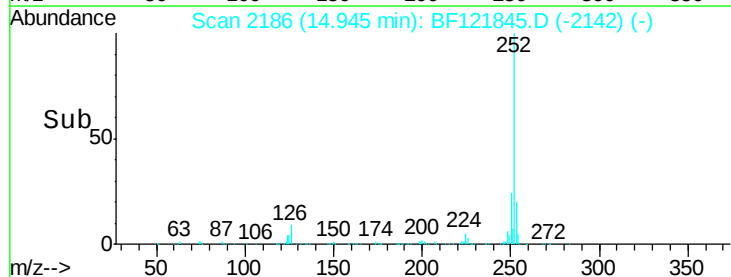
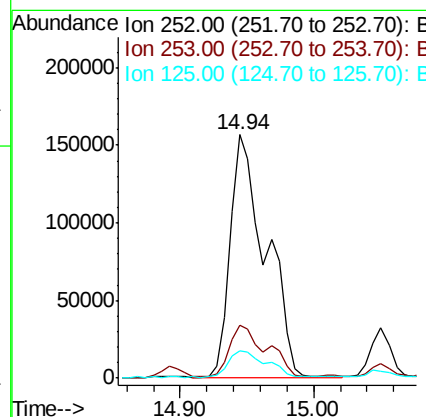
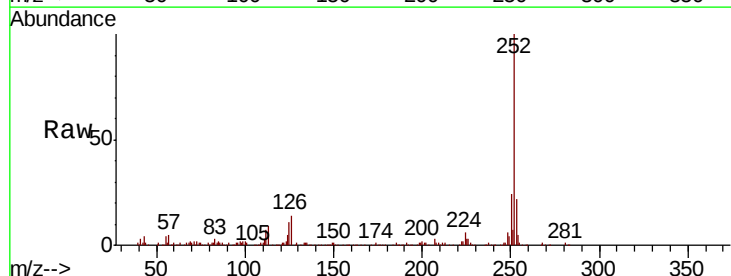
Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

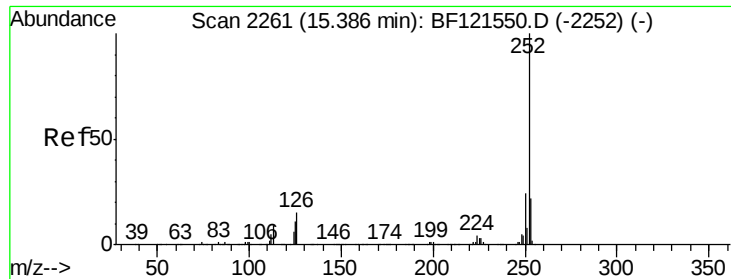
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.2
125	11.4	8.0	12.0



#89
Benzo(k)fluoranthene
Concen: 18.970 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.04 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	11.4	7.7	11.5

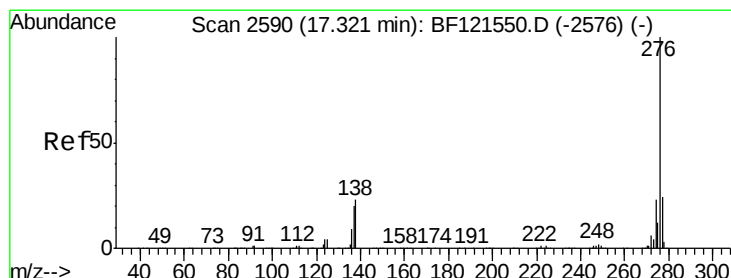
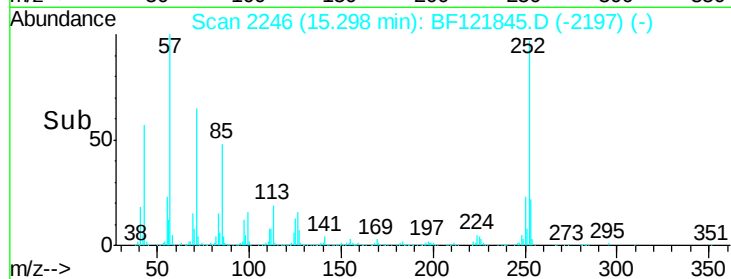
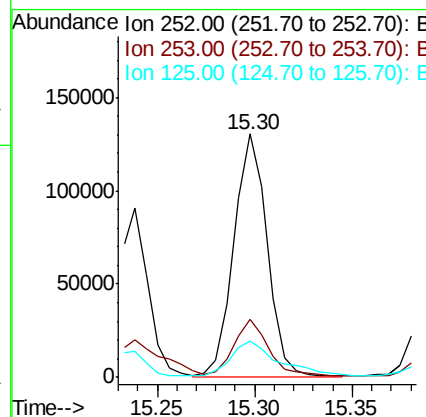
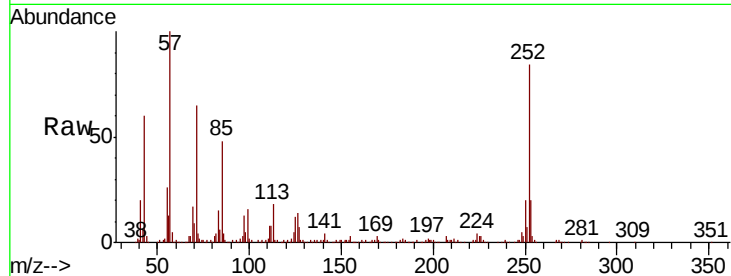




#90
Benzo(a)pyrene
Concen: 10.748 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Instrument :
BNA_F
ClientSampleId :
B-20(12-14)DL

Tot Ion:252 Resp: 153479
Ion Ratio Lower Upper
252 100
253 23.8 17.3 25.9
125 14.8 8.6 13.0#



#92
Benzo(g,h,i)perylene
Concen: 8.245 ng
RT: 17.20 min Scan# 2569
Delta R.T. -0.01 min
Lab File: BF121845.D
Acq: 6 Oct 2020 11:17

Tgt Ion:276 Resp: 110410
Ion Ratio Lower Upper
276 100
277 23.6 19.4 29.2
138 21.0 17.8 26.6

