

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100620\
 Data File : BF121860.D
 Acq On : 6 Oct 2020 19:03
 Operator : JU/CG
 Sample : L4228-02 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PY-BIN-4

Quant Time: Oct 07 00:26:08 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	121005	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	443073	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	192592	20.00	ng	-0.01
64) Phenanthrene-d10	11.28	188	296699	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	284395	20.00	ng	-0.01
86) Perylene-d12	15.36	264	244251	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	126957	15.59	ng	0.00
7) Phenol-d6	6.40	99	168505	15.77	ng	-0.01
23) Nitrobenzene-d5	7.32	82	107511	13.03	ng	-0.02
42) 2,4,6-Tribromophenol	10.59	330	27651	11.55	ng	-0.02
45) 2-Fluorobiphenyl	9.12	172	193020	15.18	ng	-0.01
79) Terphenyl-d14	12.86	244	144501	10.29	ng	-0.02

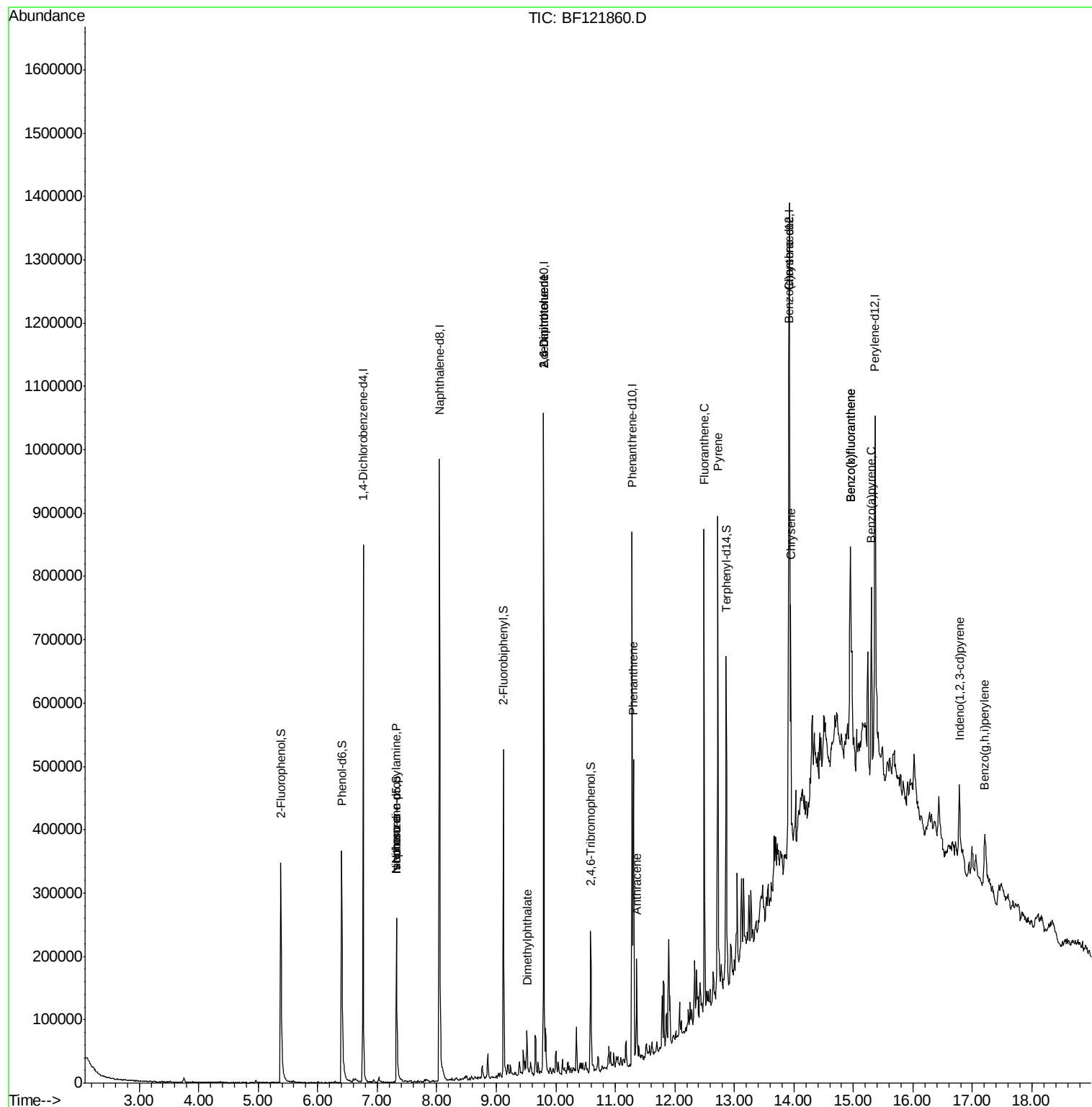
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.32	70	13767	2.236	ng	# 79
25) Isophorone	7.32	82	107511	6.472	ng	# 67
50) Dimethylphthalate	9.52	163	28343	2.030	ng	99
51) 2,6-Dinitrotoluene	9.80	165	25189	8.473	ng	# 21
57) 2,4-Dinitrotoluene	9.80	165	25189	6.735	ng	# 21
71) Phenanthrene	11.30	178	169219	10.468	ng	98
72) Anthracene	11.36	178	64116	3.843	ng	97
75) Fluoranthene	12.49	202	295066	17.099	ng	99
78) Pyrene	12.72	202	306924	14.771	ng	100
81) Benzo(a)anthracene	13.91	228	160324	8.911	ng	99
83) Chrysene	13.94	228	145341	7.977	ng	98
87) Indeno(1,2,3-cd)pyrene	16.78	276	65880	4.142	ng	97
88) Benzo(b)fluoranthene	14.95	252	223369	13.680	ng	# 95
89) Benzo(k)fluoranthene	14.95	252	223369	14.938	ng	# 94
90) Benzo(a)pyrene	15.30	252	128105	9.230	ng	# 94
92) Benzo(g,h,i)perylene	17.21	276	69104	5.309	ng	99

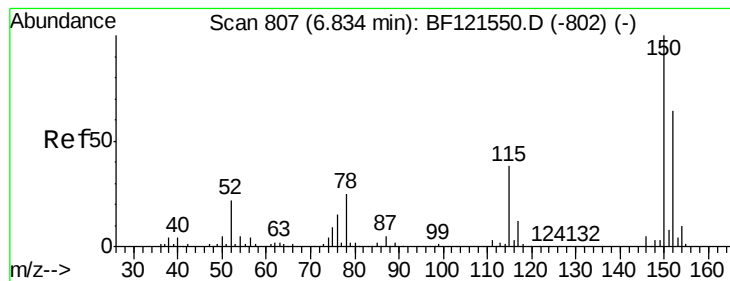
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

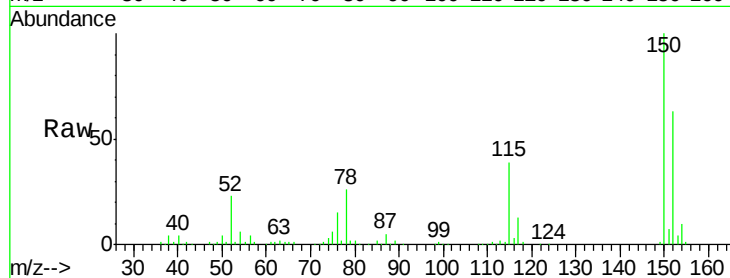
Tot Ion:152 Resp: 121005

Ion Ratio Lower Upper

152 100

150 159.1 125.3 187.9

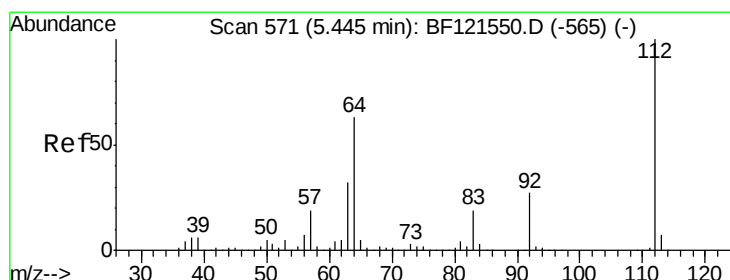
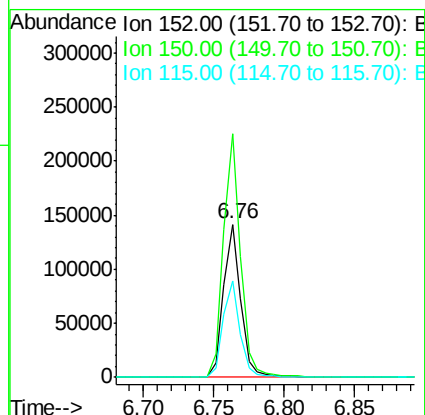
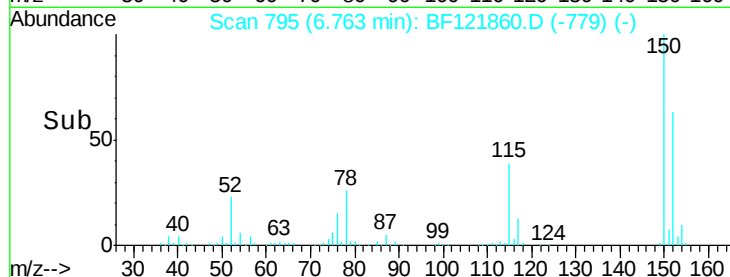
115 62.8 51.9 77.9



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: 15.592 ng

RT: 5.38 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

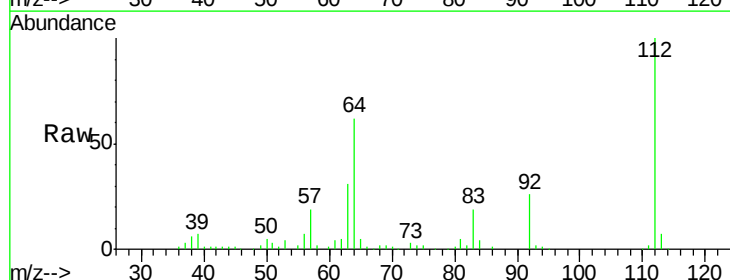
Tgt Ion:112 Resp: 126957

Ion Ratio Lower Upper

112 100

64 62.3 50.4 75.6

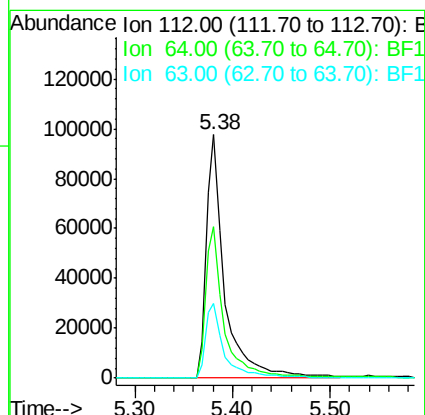
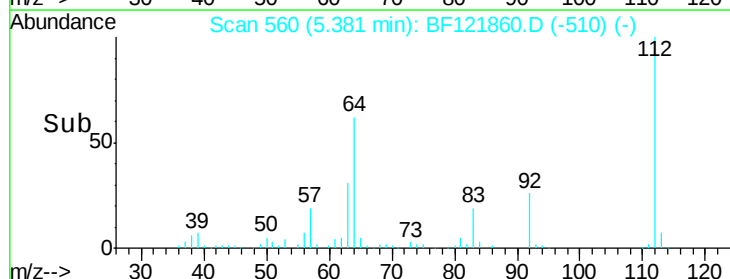
63 30.7 25.8 38.6

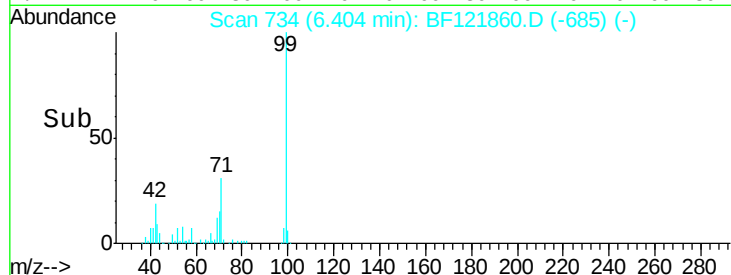
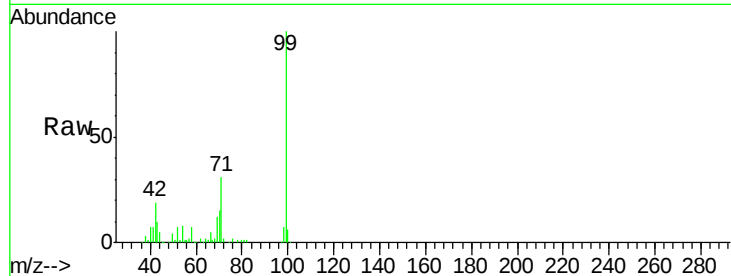


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 15.774 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

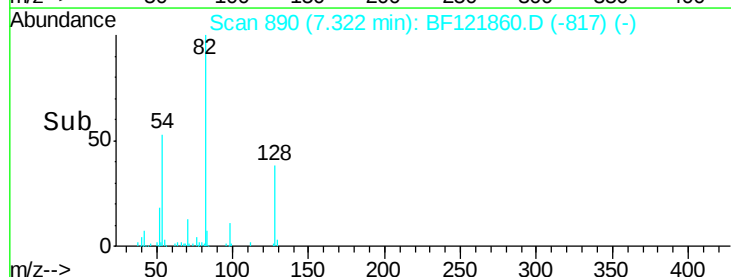
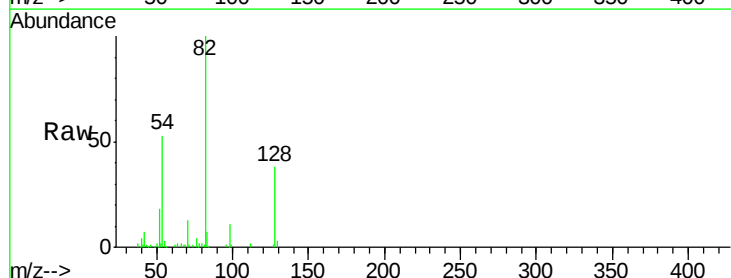
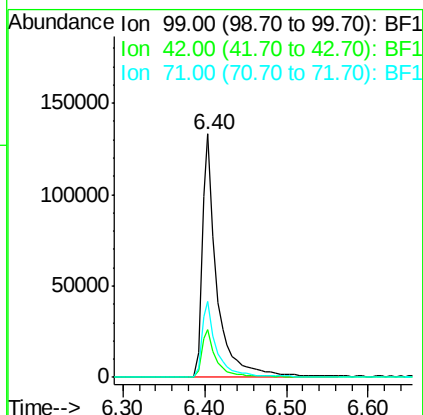
Tot Ion: 99 Resp: 168505

Ion Ratio Lower Upper

99 100

42 19.4 15.9 23.9

71 31.0 27.1 40.7



#19

n-Nitroso-di-n-propylamine

Concen: 2.236 ng

RT: 7.32 min Scan# 890

Delta R.T. 0.13 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Tgt Ion: 70 Resp: 13767

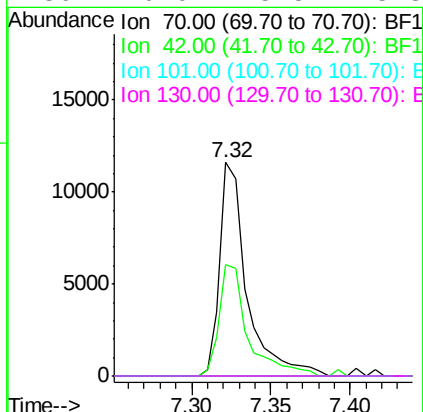
Ion Ratio Lower Upper

70 100

42 52.4 50.2 75.4

101 0.0 7.5 11.3#

130 0.0 15.5 23.3#

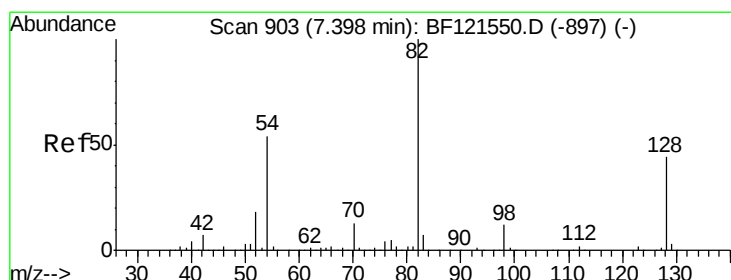
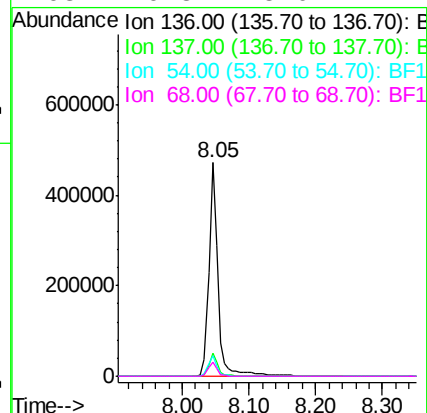
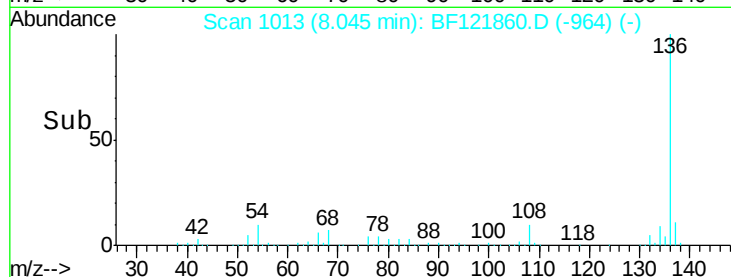
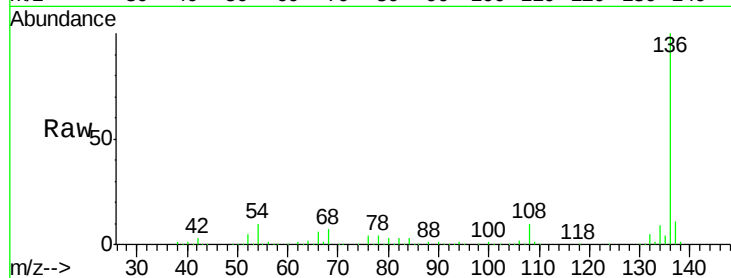




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.05 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

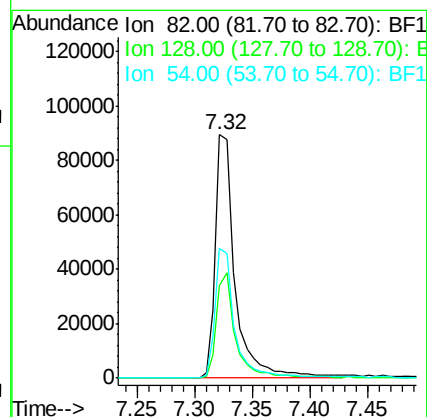
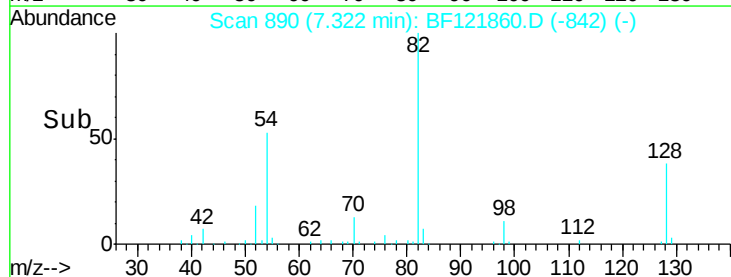
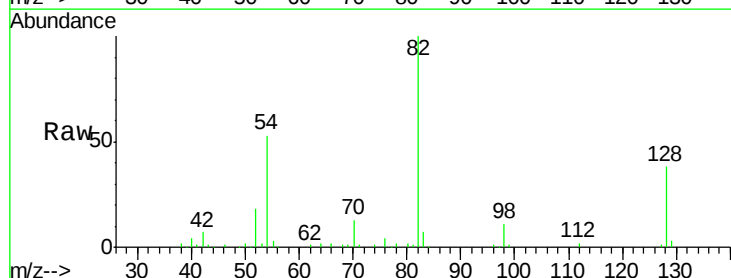
Instrument :
BNA_F
ClientSampleId :
PY-BIN-4

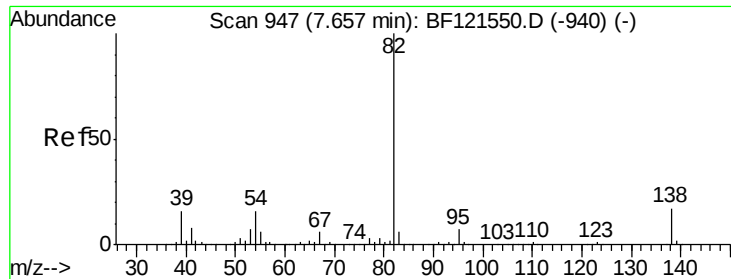
Tot Ion:136 Resp: 443073
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 9.7 7.1 10.7
68 6.8 5.0 7.4



#23
Nitrobenzene-d5
Concen: 13.028 ng
RT: 7.32 min Scan# 890
Delta R.T. -0.02 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

Tgt Ion: 82 Resp: 107511
Ion Ratio Lower Upper
82 100
128 38.0 35.0 52.4
54 53.4 43.9 65.9





#25

Isophorone

Concen: 6.472 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.28 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

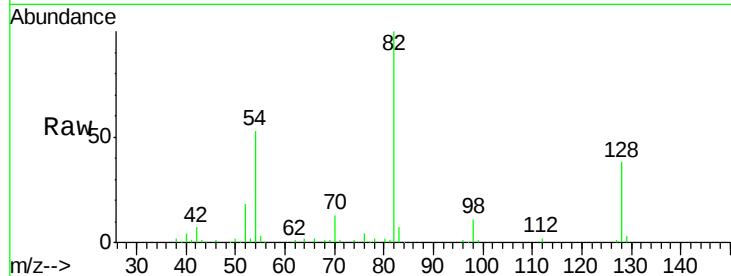
Tot Ion: 82 Resp: 107511

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

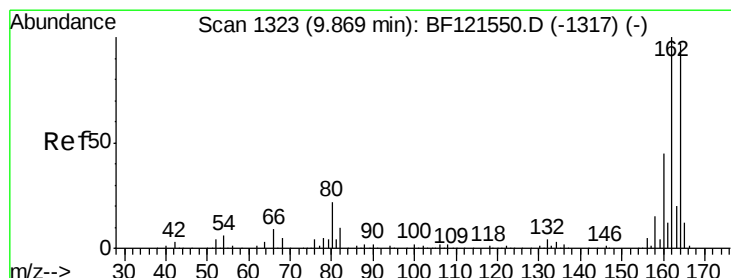
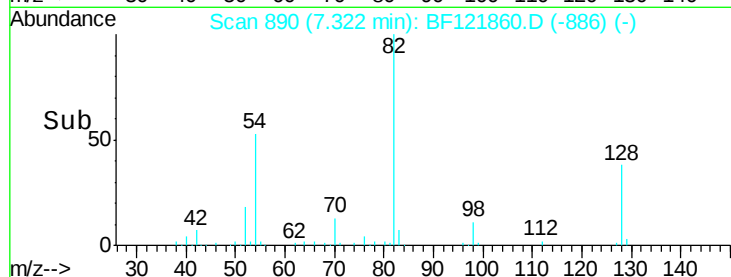
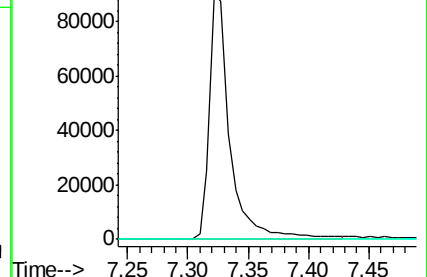
138 0.0 13.4 20.0#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.80 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

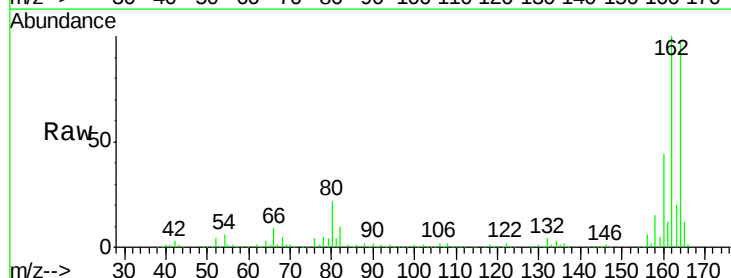
Tgt Ion: 164 Resp: 192592

Ion Ratio Lower Upper

164 100

162 103.2 83.2 124.8

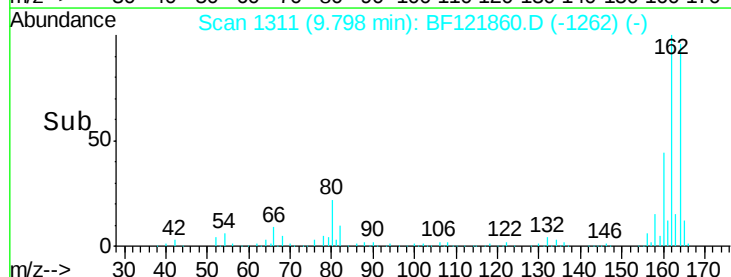
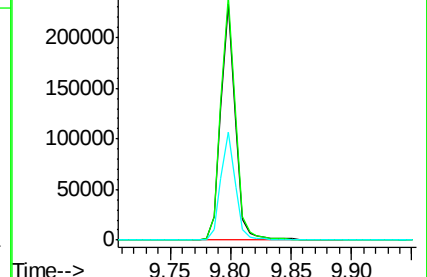
160 45.6 37.5 56.3



Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 11.552 ng

RT: 10.59 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

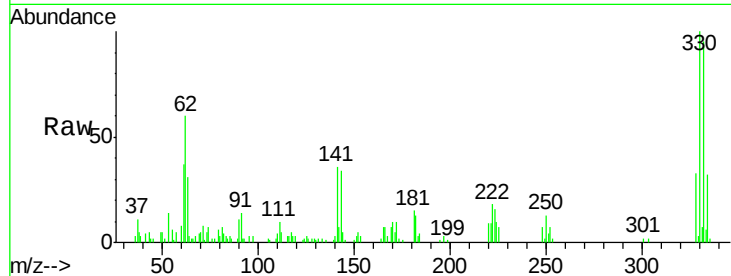
Tot Ion:330 Resp: 27651

Ion Ratio Lower Upper

330 100

332 95.1 77.3 115.9

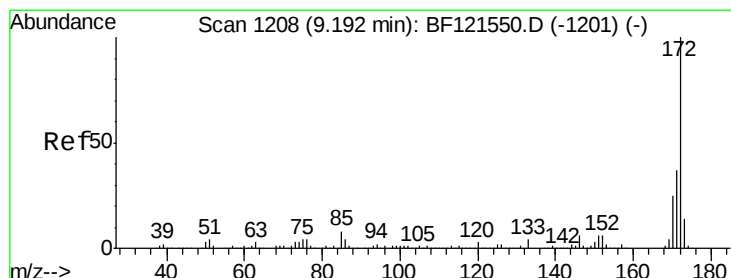
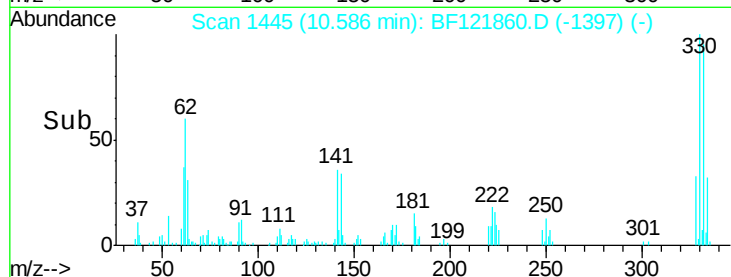
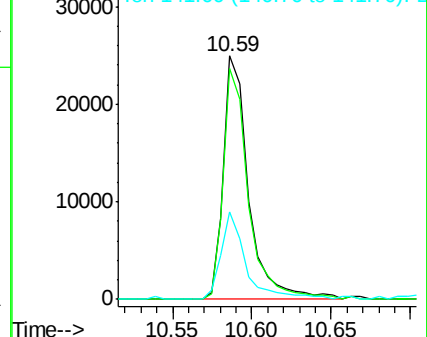
141 35.6 22.3 33.5#



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: 15.179 ng

RT: 9.12 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

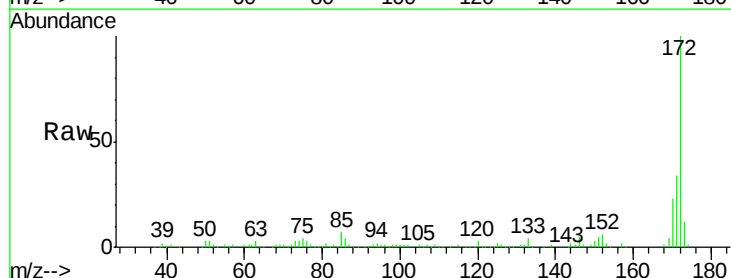
Tgt Ion:172 Resp: 193020

Ion Ratio Lower Upper

172 100

171 34.3 29.1 43.7

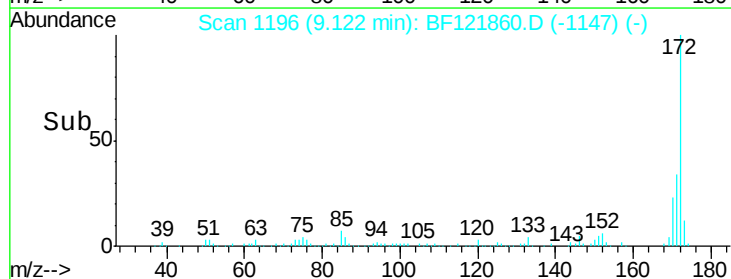
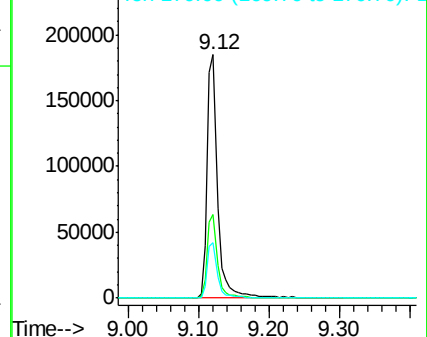
170 22.6 19.8 29.6

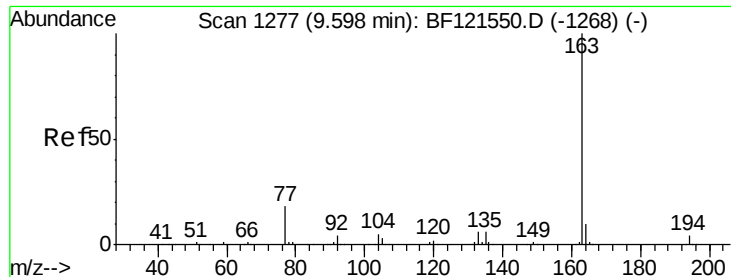


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.030 ng

RT: 9.52 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

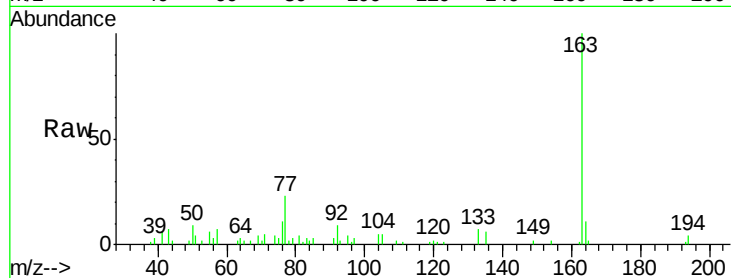
Tot Ion:163 Resp: 28343

Ion Ratio Lower Upper

163 100

194 4.2 3.3 4.9

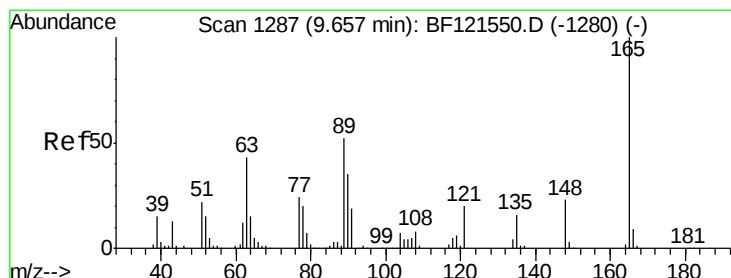
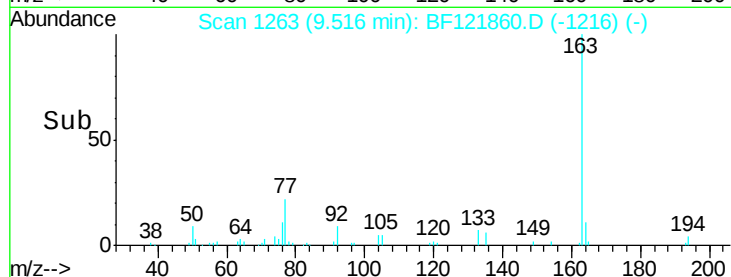
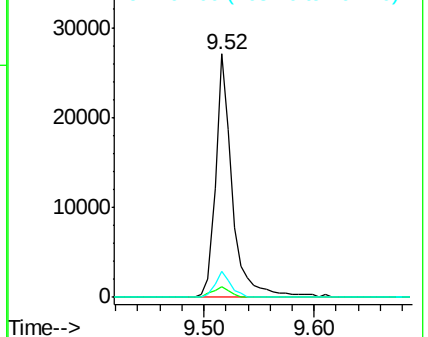
164 10.9 8.2 12.4



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



#51

2,6-Dinitrotoluene

Concen: 8.473 ng

RT: 9.80 min Scan# 1311

Delta R.T. 0.20 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

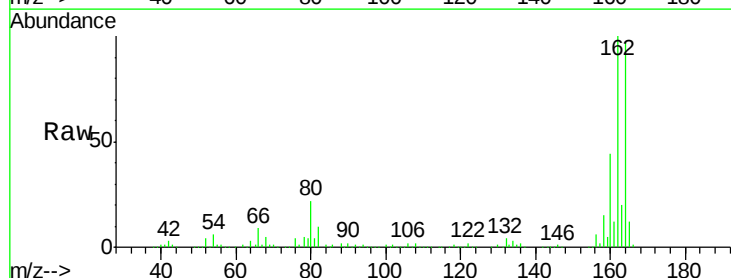
Tgt Ion:165 Resp: 25189

Ion Ratio Lower Upper

165 100

63 1.9 51.8 77.6#

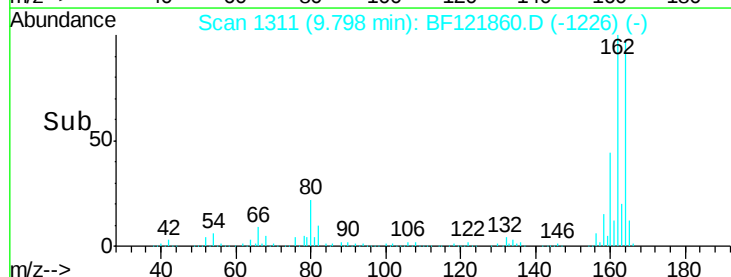
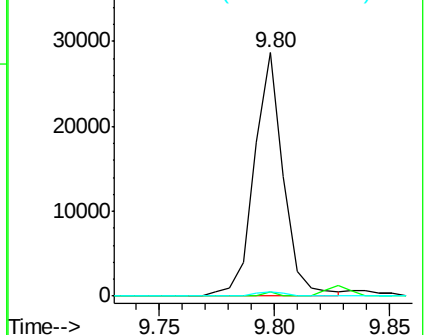
89 1.5 49.0 73.6#



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

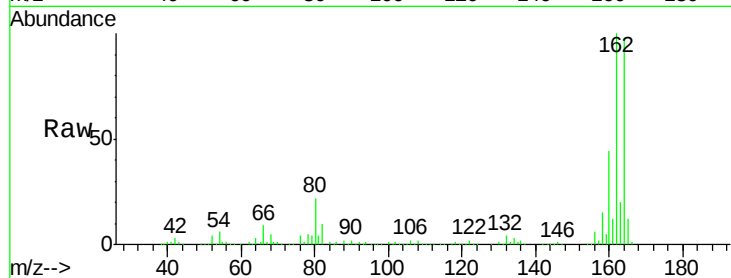




#57
 2,4-Dinitrotoluene
 Concen: 6.735 ng
 RT: 9.80 min Scan# 1311
 Delta R.T. -0.21 min
 Lab File: BF121860.D
 Acq: 6 Oct 2020 19:03

Instrument :
 BNA_F
 ClientSampleId :
 PY-BIN-4

Tot Ion:165	Resp:	25189
Ion Ratio	Lower	Upper
165	100	
63	1.9	41.3 61.9#
89	1.5	61.8 92.8#
182	0.0	2.1 3.1#

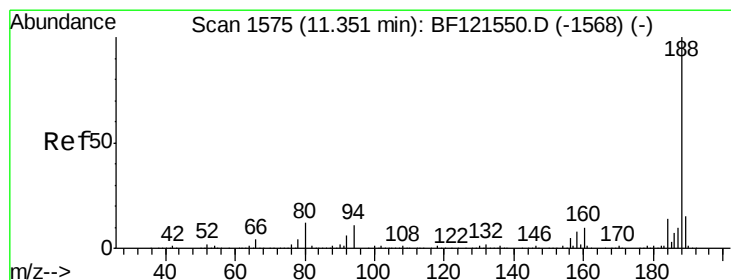
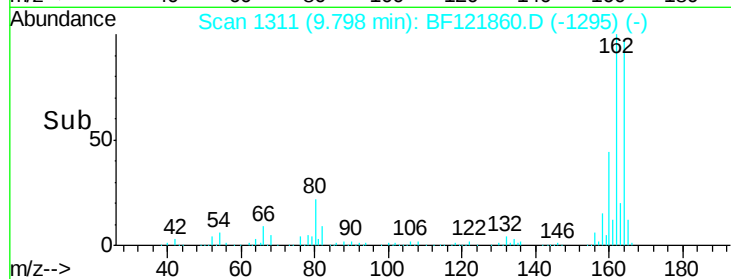
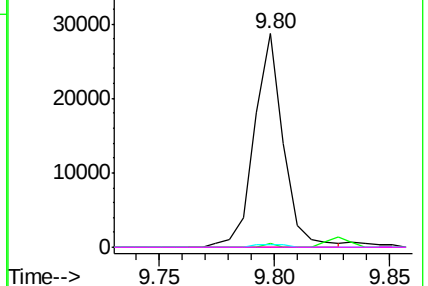


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

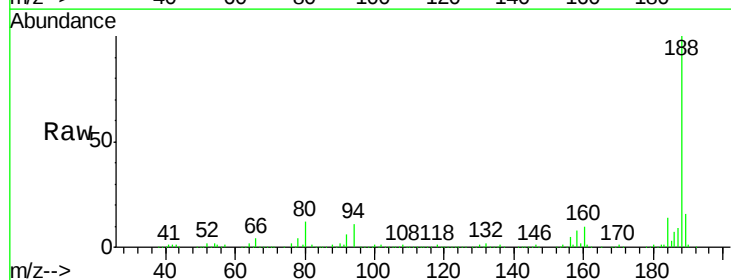
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.28 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: BF121860.D
 Acq: 6 Oct 2020 19:03

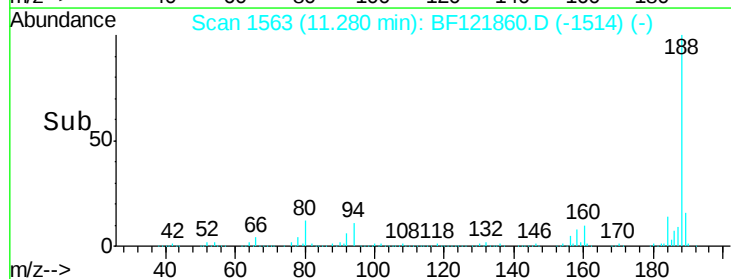
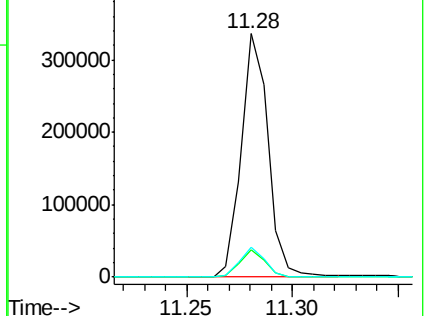
Tgt Ion:188	Resp:	296699
Ion Ratio	Lower	Upper
188	100	
94	11.2	8.3 12.5
80	12.2	9.1 13.7

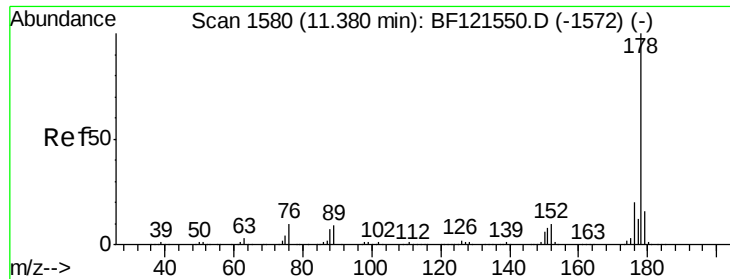


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

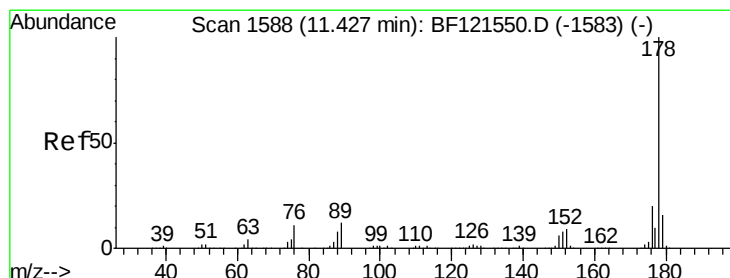
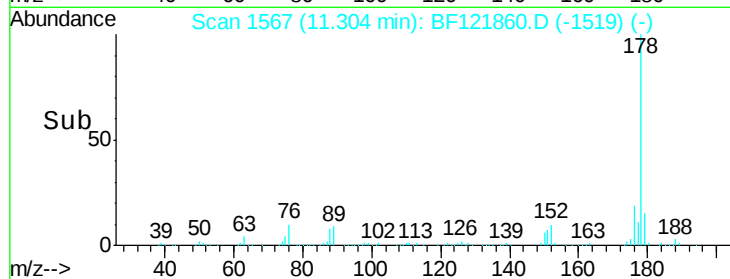
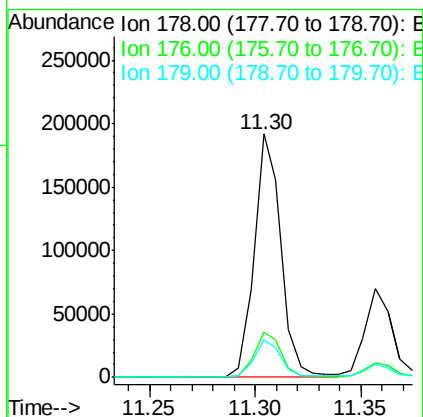
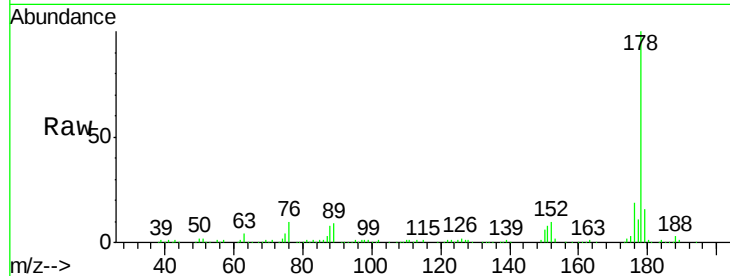




#71
Phenanthrene
Concen: 10.468 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.02 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

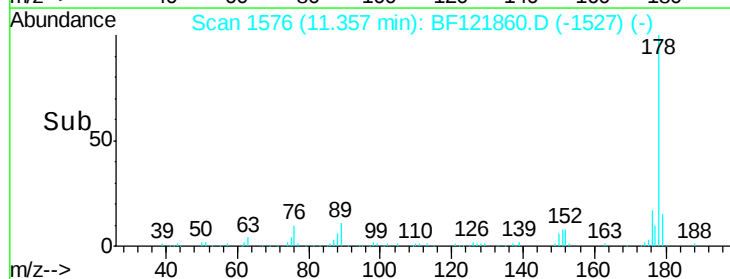
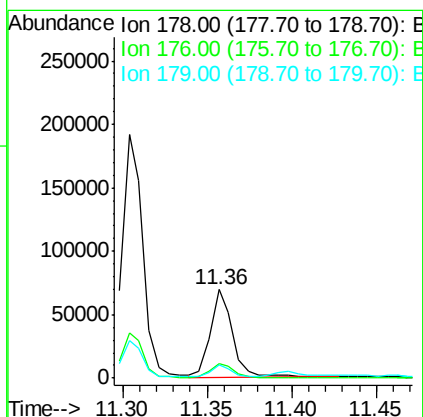
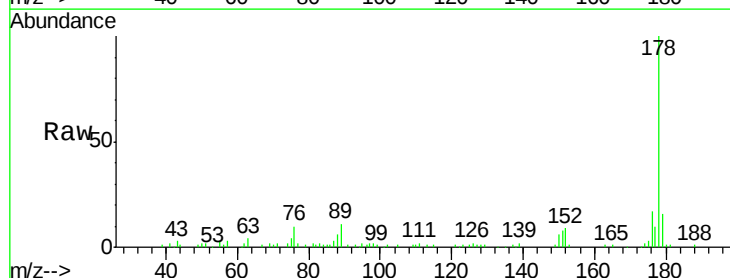
Instrument :
BNA_F
ClientSampleId :
PY-BIN-4

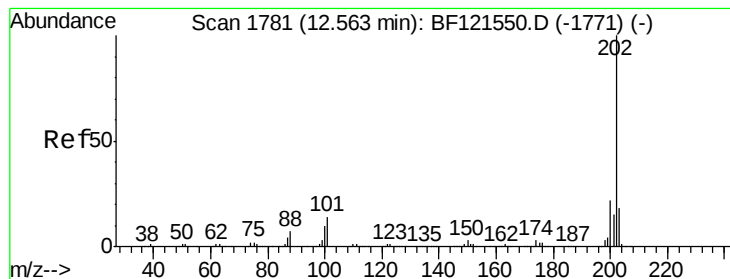
Tot Ion:178 Resp: 169219
Ion Ratio Lower Upper
178 100
176 18.5 15.9 23.9
179 15.6 12.2 18.4



#72
Anthracene
Concen: 3.843 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

Tgt Ion:178 Resp: 64116
Ion Ratio Lower Upper
178 100
176 17.2 15.7 23.5
179 15.5 12.7 19.1





#75

Fluoranthene

Concen: 17.099 ng

RT: 12.49 min Scan# 1769

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

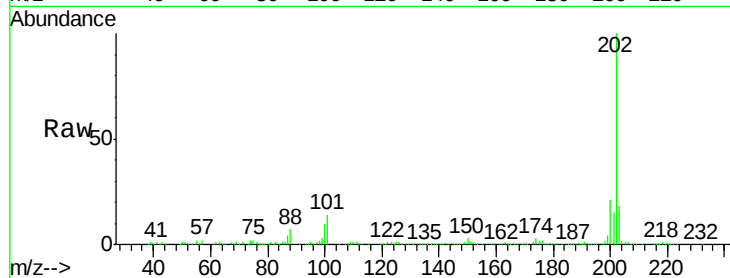
Tot Ion:202 Resp: 295066

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.4

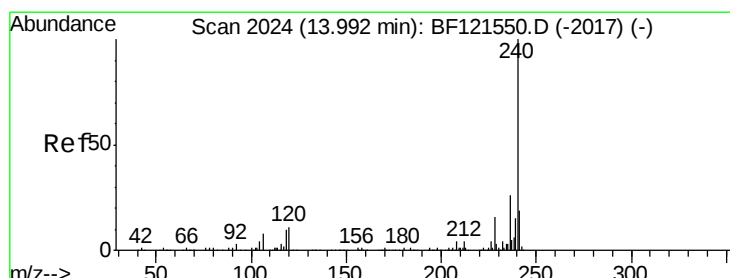
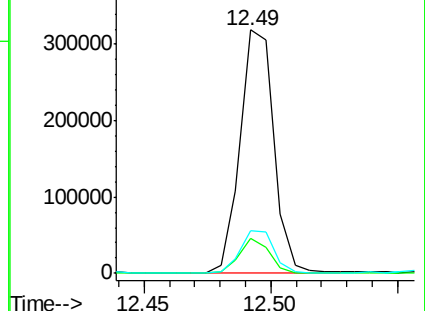
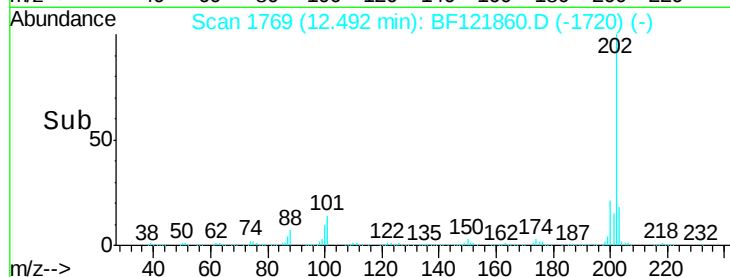
203 17.8 0.0 37.9



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: BF121860.D

Acq: 6 Oct 2020 19:03

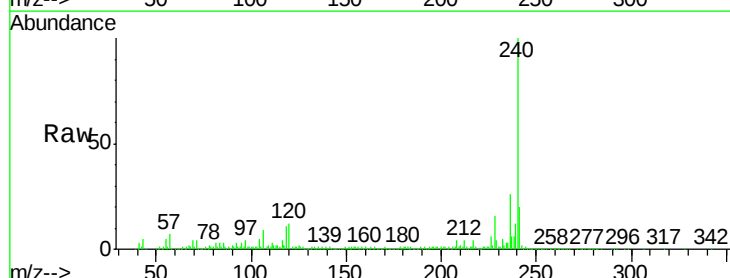
Tgt Ion:240 Resp: 284395

Ion Ratio Lower Upper

240 100

120 12.1 9.2 13.8

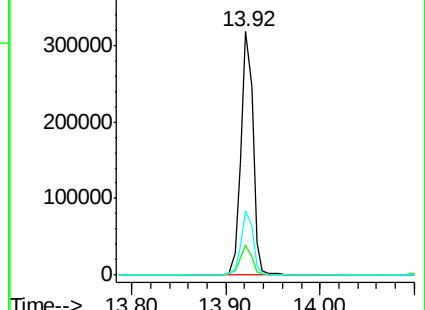
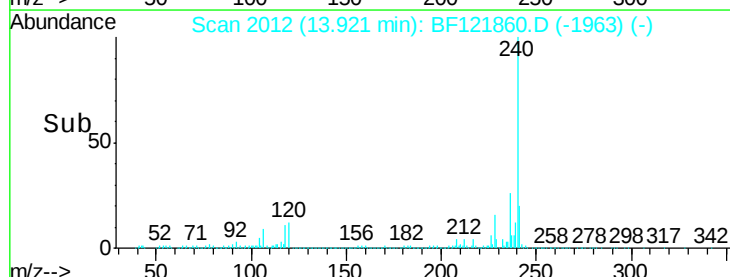
236 26.2 20.9 31.3

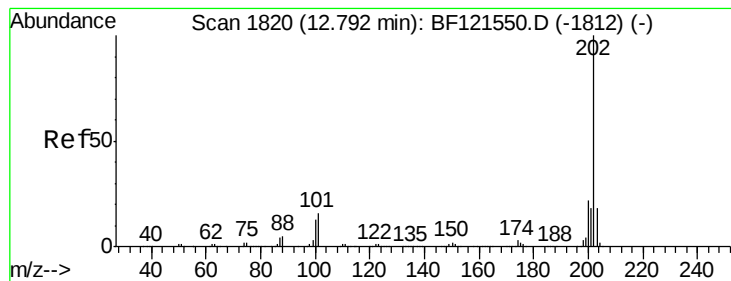


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 14.771 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampleId :

PY-BIN-4

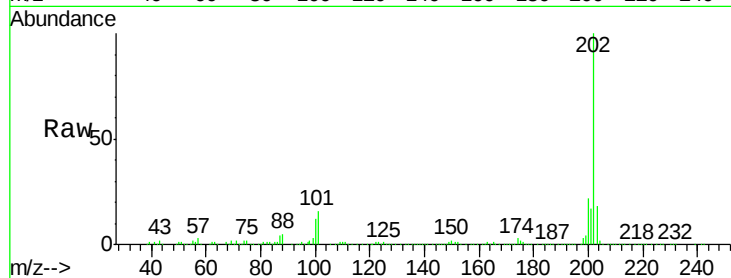
Tot Ion:202 Resp: 306924

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

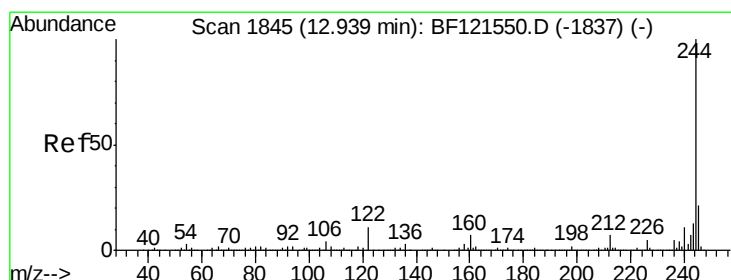
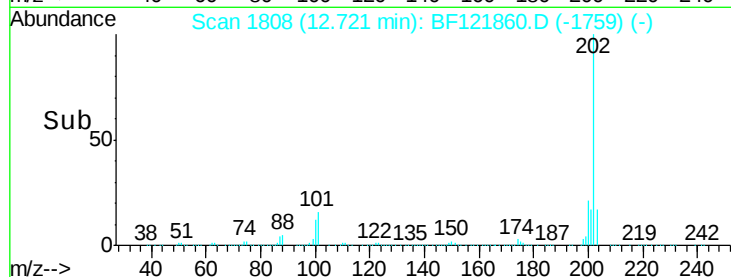
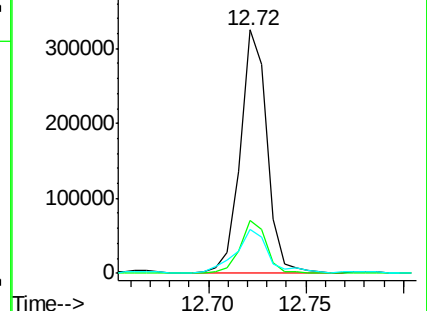
203 18.1 14.6 21.8



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: 10.294 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

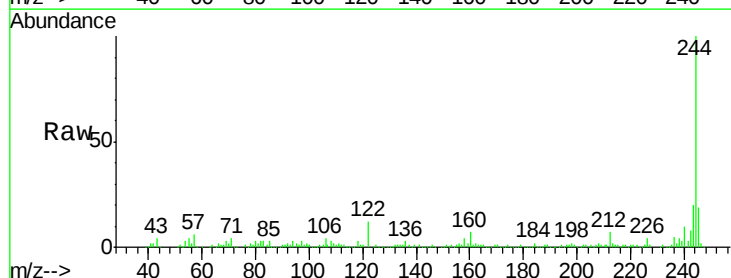
Tgt Ion:244 Resp: 144501

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

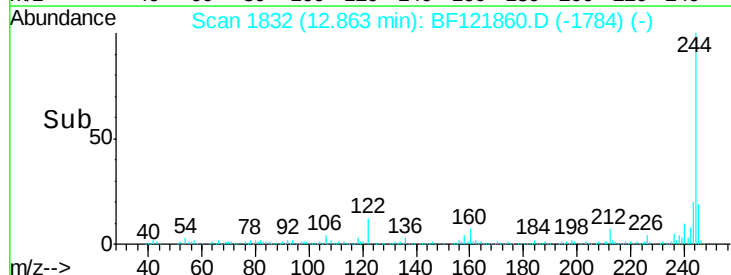
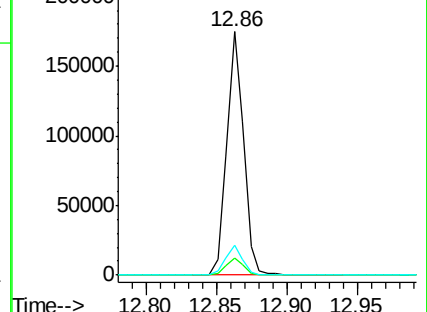
122 12.3 8.1 12.1#

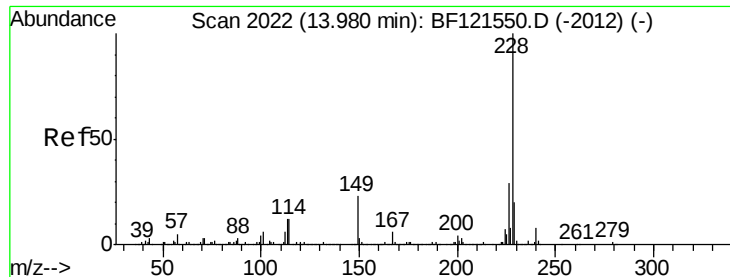


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 8.911 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

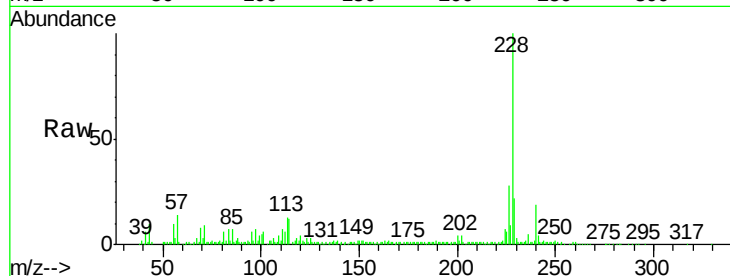
BNA_F

ClientSampleId :

PY-BIN-4

Tot Ion:228 Resp: 160324

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.3	33.5
229	21.6	16.2	24.4

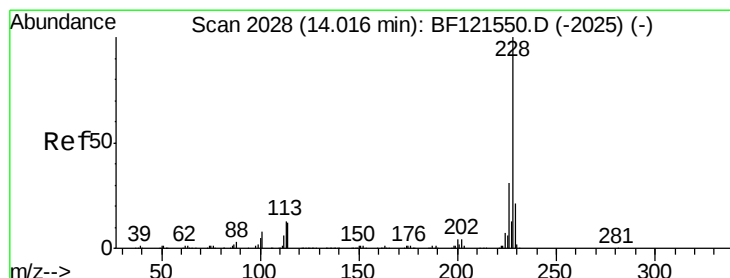
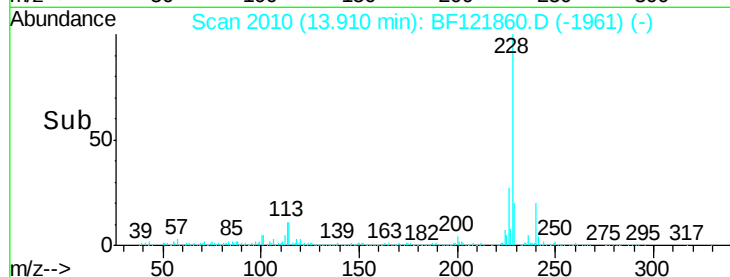
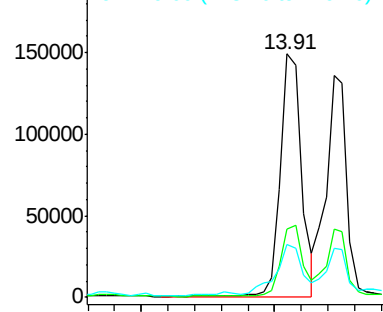


Abundance

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



#83

Chrysene

Concen: 7.977 ng

RT: 13.94 min Scan# 2016

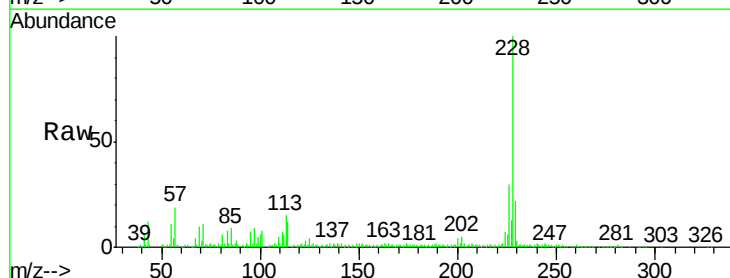
Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Tgt Ion:228 Resp: 145341

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	22.2	15.9	23.9

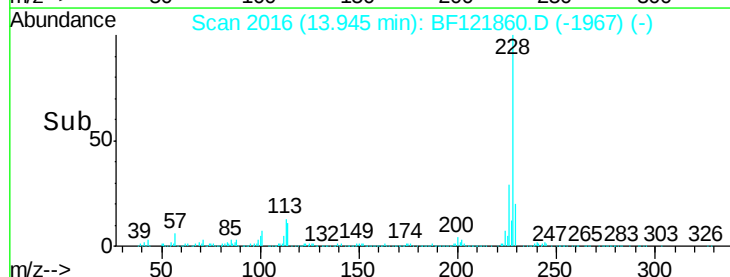
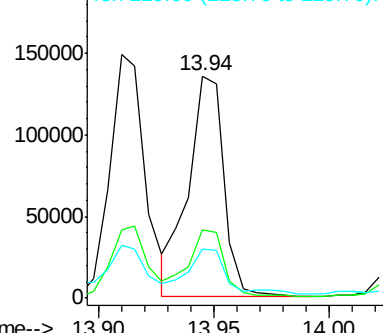


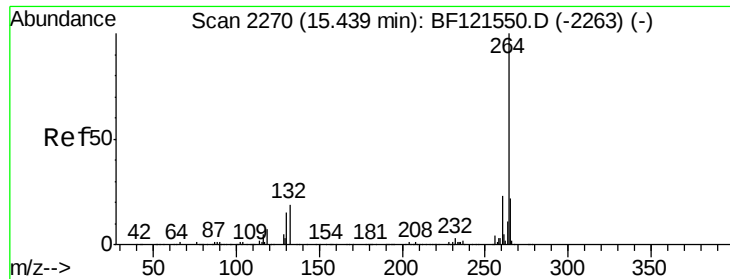
Abundance

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

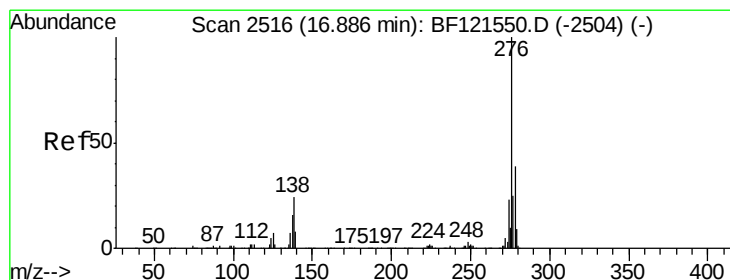
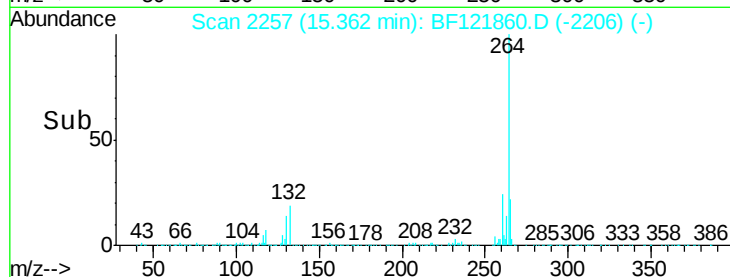
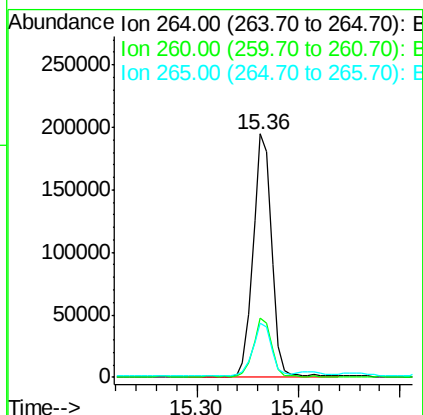
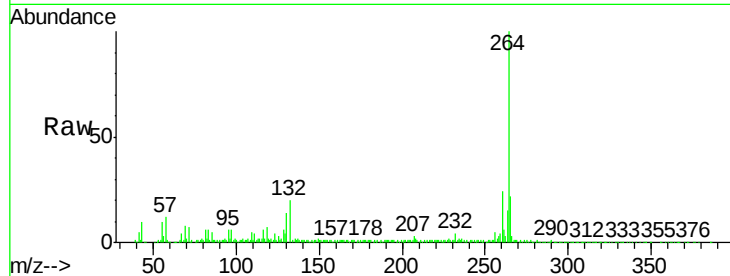




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

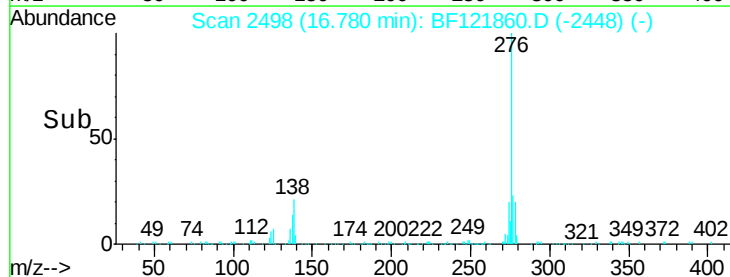
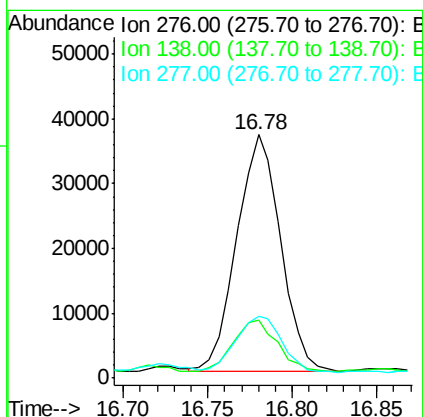
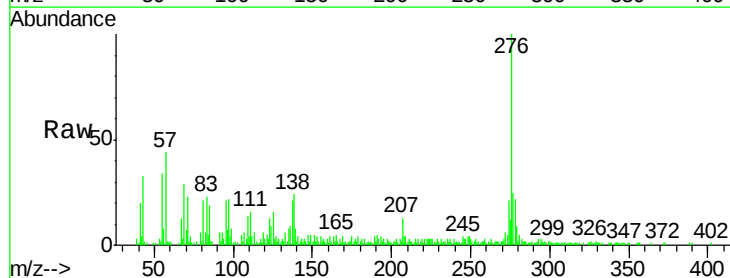
Instrument :
BNA_F
ClientSampleId :
PY-BIN-4

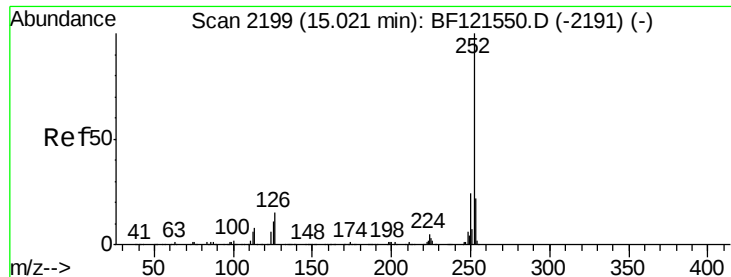
Tot Ion:264 Resp: 244251
Ion Ratio Lower Upper
264 100
260 24.2 18.7 28.1
265 22.4 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.142 ng
RT: 16.78 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

Tgt Ion:276 Resp: 65880
Ion Ratio Lower Upper
276 100
138 22.3 19.9 29.9
277 24.9 20.4 30.6

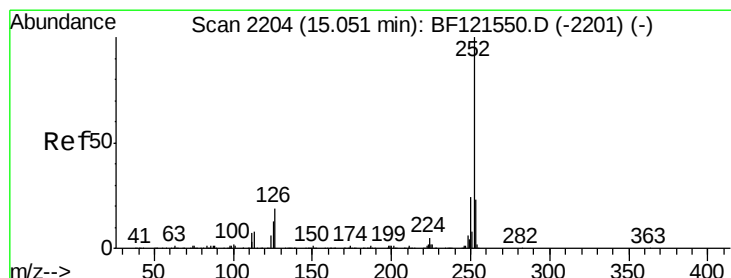
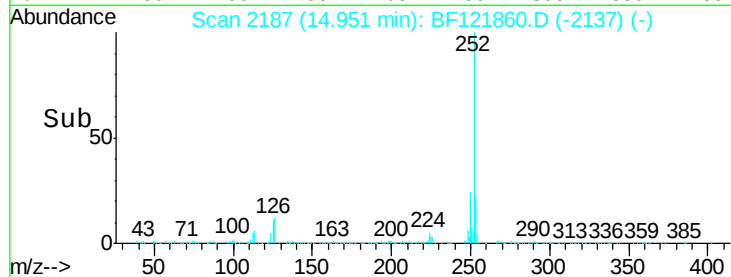
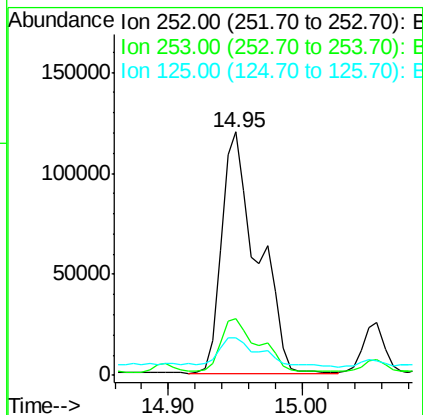
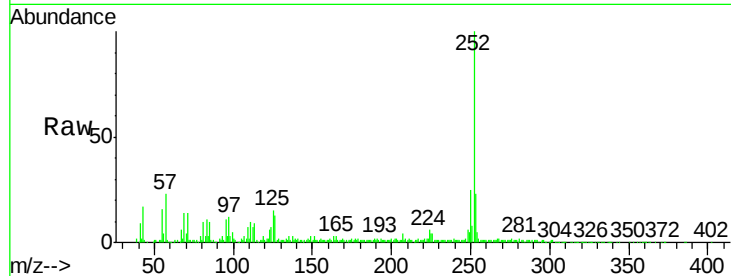




#88
Benzo(b)fluoranthene
Concen: 13.680 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

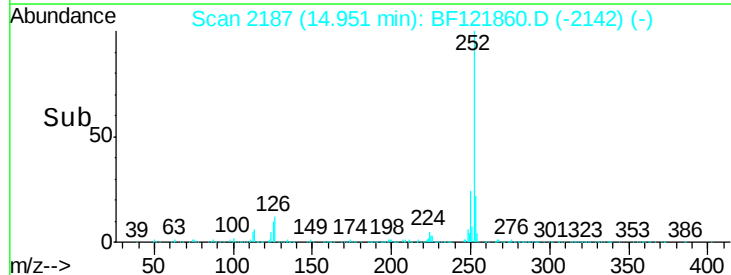
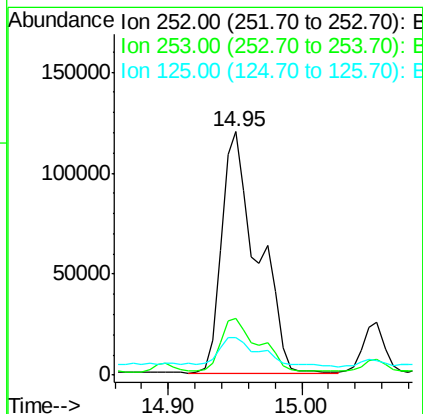
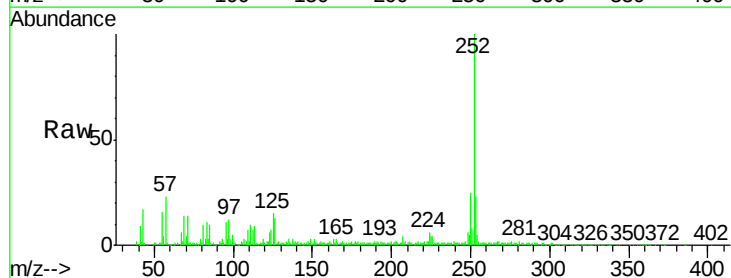
Instrument :
BNA_F
ClientSampleId :
PY-BIN-4

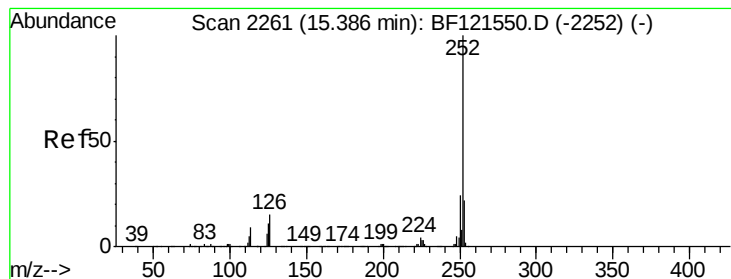
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	15.3	8.0	12.0



#89
Benzo(k)fluoranthene
Concen: 14.938 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.04 min
Lab File: BF121860.D
Acq: 6 Oct 2020 19:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	15.3	7.7	11.5





#90

Benzo(a)pyrene

Concen: 9.230 ng

RT: 15.30 min Scan# 2247

Delta R.T. -0.01 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

Instrument :

BNA_F

ClientSampled :

PY-BIN-4

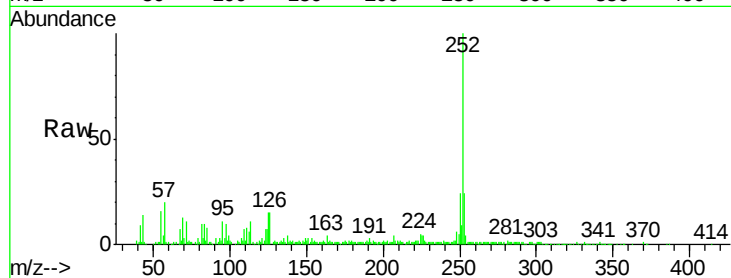
Tot Ion:252 Resp: 128105

Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

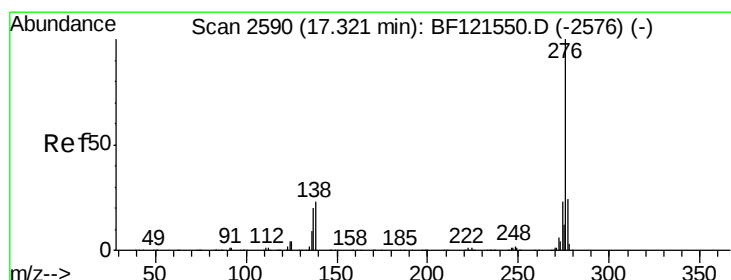
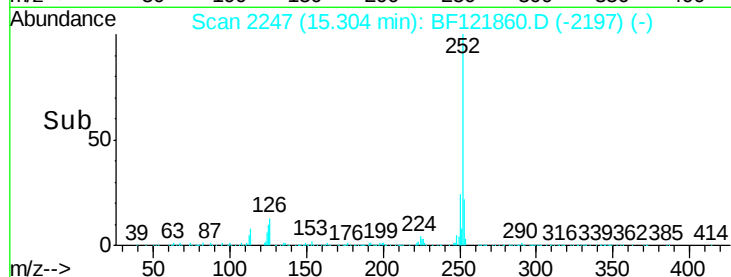
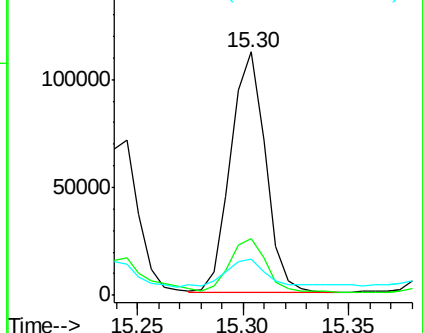
125 14.7 8.6 13.0#



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: 5.309 ng

RT: 17.21 min Scan# 2571

Delta R.T. 0.00 min

Lab File: BF121860.D

Acq: 6 Oct 2020 19:03

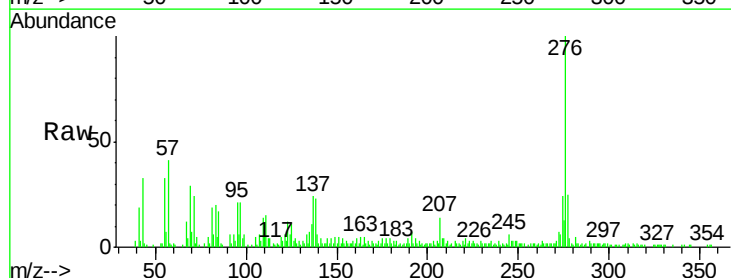
Tgt Ion:276 Resp: 69104

Ion Ratio Lower Upper

276 100

277 24.5 19.4 29.2

138 22.5 17.8 26.6



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

