

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111918\
 Data File : BF110860.D
 Acq On : 19 Nov 2018 18:26
 Operator : JU/SJ
 Sample : J5981-06 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01

Quant Time: Nov 20 00:35:51 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	59126	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	246849	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	108523	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	169529	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	146444	20.00	ng	-0.01
87) Perylene-d12	15.66	264	102689	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	78952	21.69	ng	0.00
7) Phenol-d6	6.57	99	107215	23.03	ng	0.00
23) Nitrobenzene-d5	7.51	82	67214	15.68	ng	0.00
42) 2,4,6-Tribromophenol	10.78	330	18950	17.33	ng	0.00
45) 2-Fluorobiphenyl	9.30	172	125072	16.46	ng	0.00
79) Terphenyl-d14	13.06	244	97160	12.43	ng	-0.01

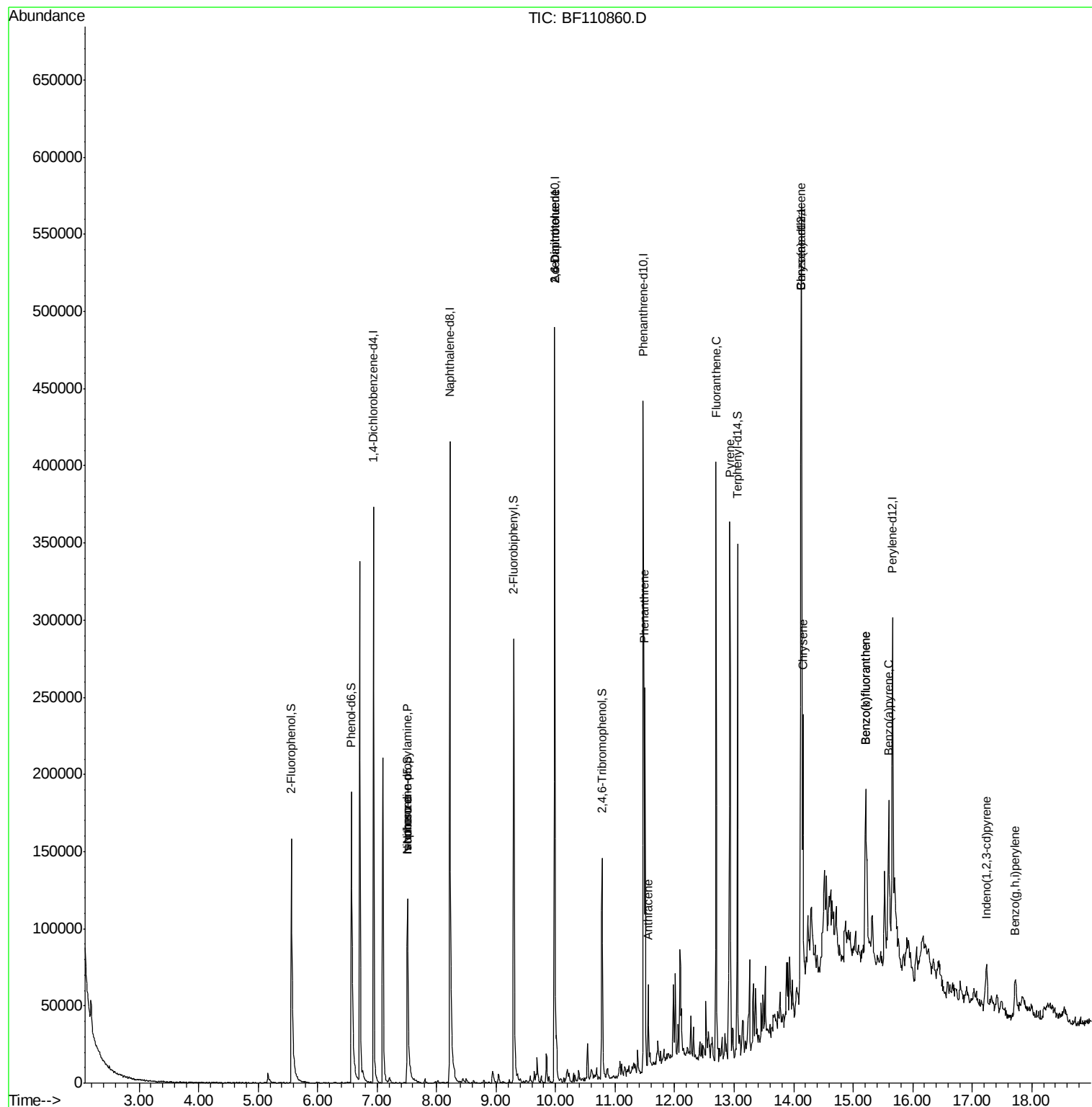
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.71	77	2051	Below Cal		# 64
19) n-Nitroso-di-n-propylamine	7.51	70	8273	2.784	ng	# 85
25) Isophorone	7.51	82	67214	9.567	ng	# 67
51) 2,6-Dinitrotoluene	9.98	165	13663	7.670	ng	# 21
57) 2,4-Dinitrotoluene	9.98	165	13663	5.899	ng	# 17
71) Phenanthrene	11.50	178	102493	11.285	ng	98
72) Anthracene	11.56	178	28602	3.122	ng	98
75) Fluoranthene	12.70	202	148078	16.262	ng	99
78) Pyrene	12.93	202	136560	12.111	ng	97
81) Benzo(a)anthracene	14.12	228	69579	7.949	ng	100
83) Chrysene	14.16	228	65208	7.820	ng	98
86) Indeno(1,2,3-cd)pyrene	17.24	276	22222	3.714	ng	95
88) Benzo(b)fluoranthene	15.20	252	81045	13.193	ng	# 96
89) Benzo(k)fluoranthene	15.20	252	81437	13.416	ng	# 95
90) Benzo(a)pyrene	15.60	252	43071	7.717	ng	96
92) Benzo(g,h,i)perylene	17.72	276	20341	4.340	ng	95

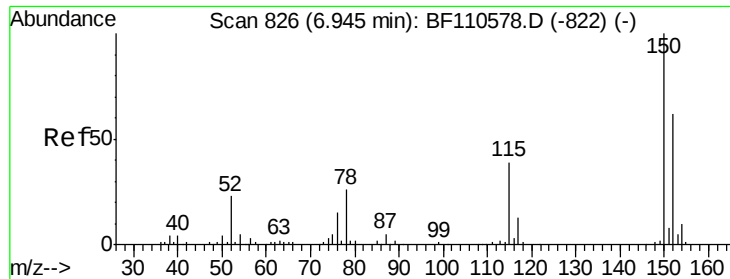
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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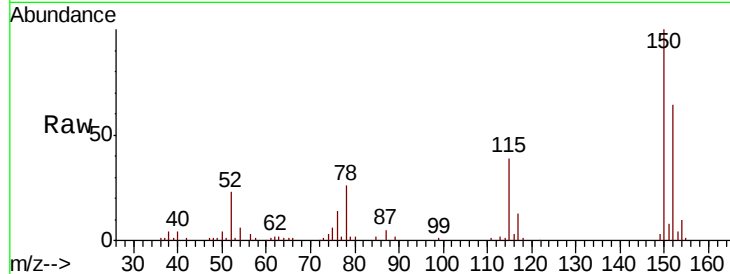


#1

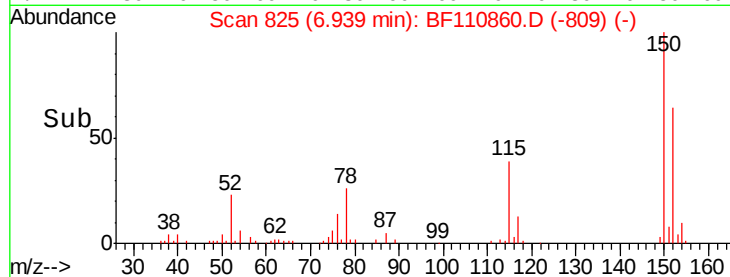
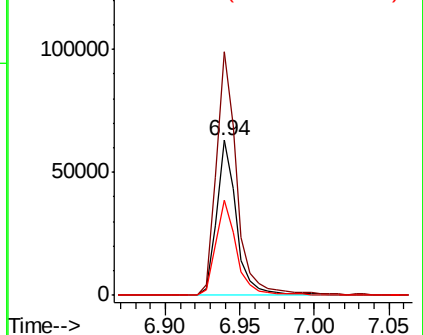
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

Instrument :
BNA_F
ClientSampled :
DUP-01

Tgt Ion:152 Resp: 59126
Ion Ratio Lower Upper
152 100
150 157.1 122.7 184.1
115 61.1 49.1 73.7



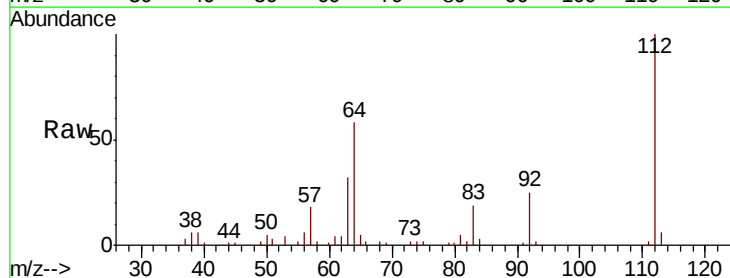
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



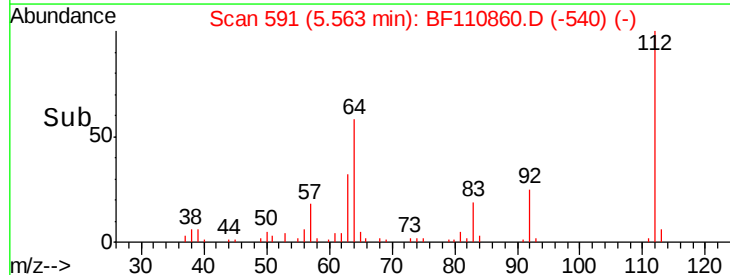
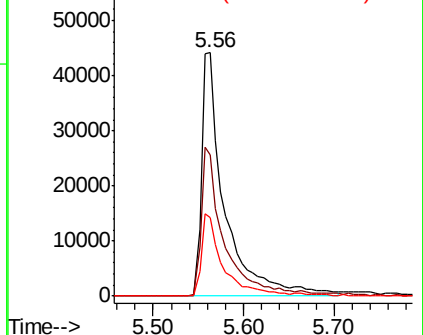
#5

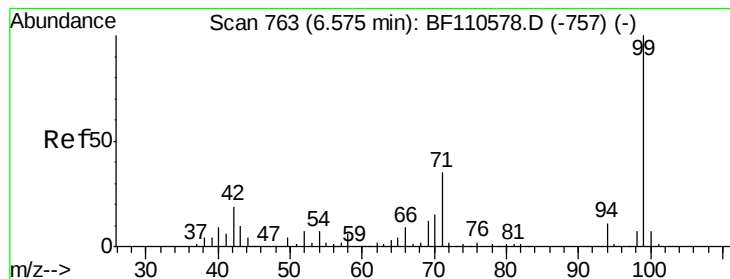
2-Fluorophenol
Concen: 21.690 ng
RT: 5.56 min Scan# 591
Delta R.T. -0.00 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

Tgt Ion:112 Resp: 78952
Ion Ratio Lower Upper
112 100
64 58.0 44.1 66.1
63 32.2 23.7 35.5



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: 23.033 ng

RT: 6.57 min Scan# 762

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

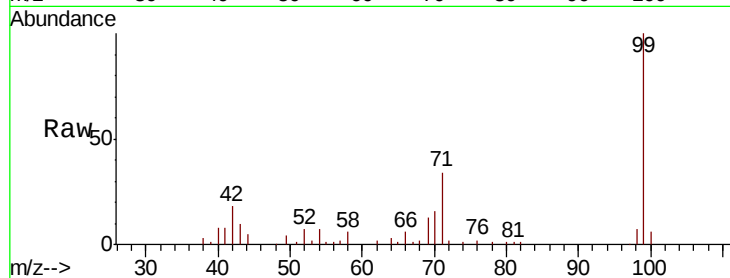
Tgt Ion: 99 Resp: 107215

Ion Ratio Lower Upper

99 100

42 17.9 15.8 23.6

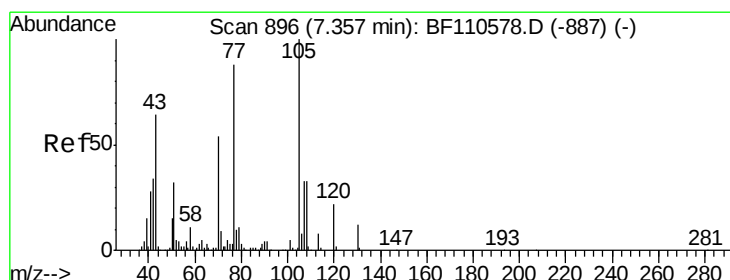
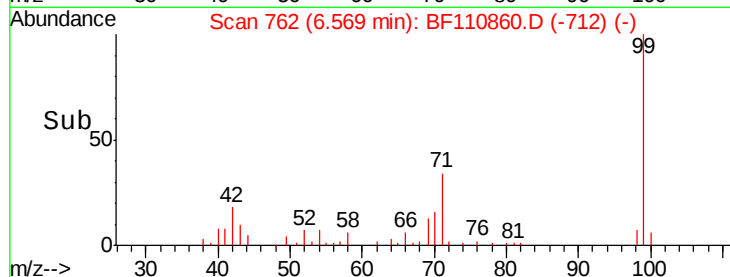
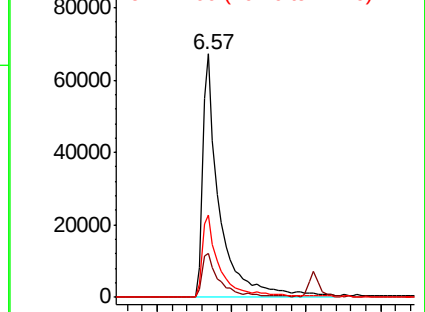
71 33.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.784 ng

RT: 7.51 min Scan# 922

Delta R.T. 0.15 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Tgt Ion: 70 Resp: 8273

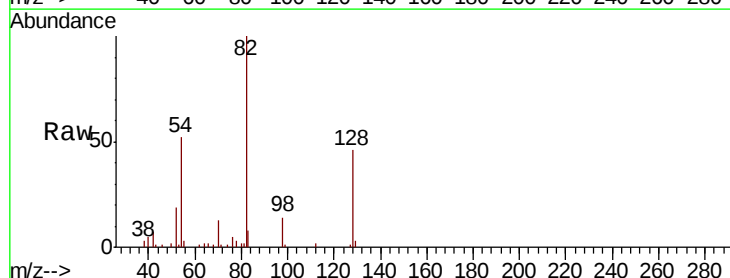
Ion Ratio Lower Upper

70 100

42 56.9 47.4 71.2

101 0.0 7.3 10.9#

130 0.0 16.2 24.2#

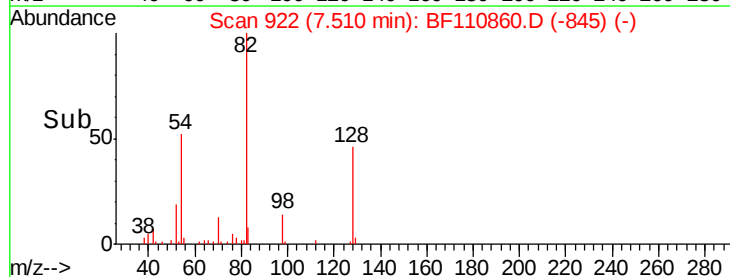
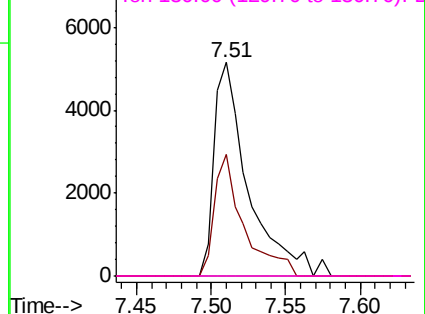


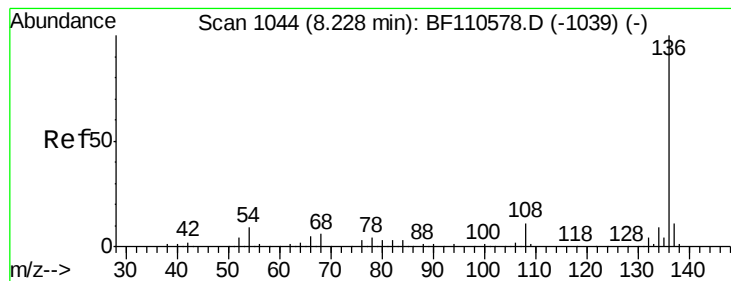
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

Tgt Ion: 136 Resp: 246849

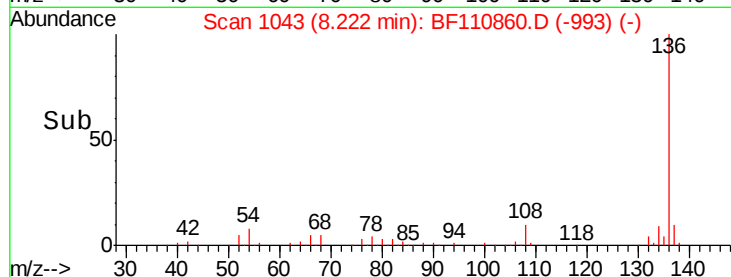
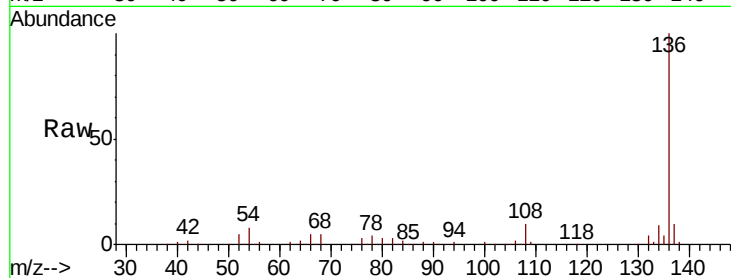
Ion Ratio Lower Upper

136 100

137 10.1 8.8 13.2

54 8.1 5.4 8.2

68 5.0 4.2 6.2

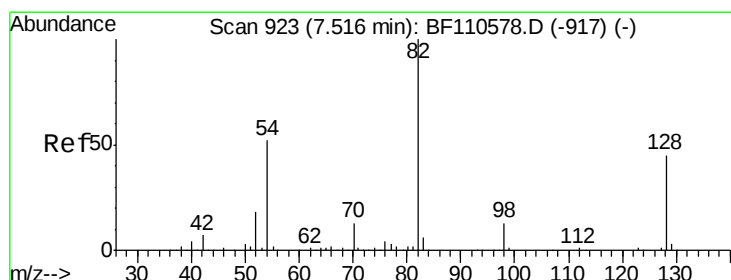
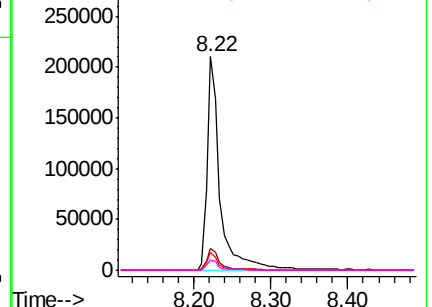


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.681 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

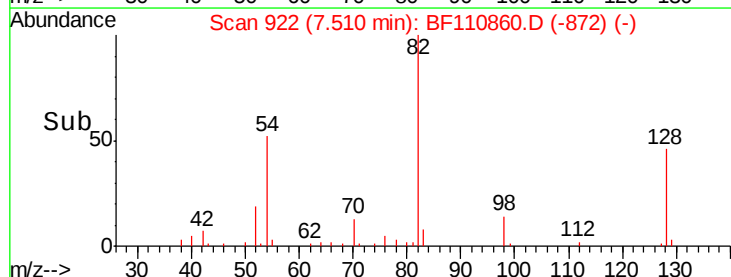
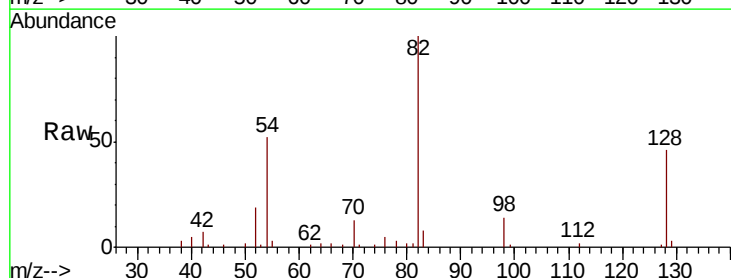
Tgt Ion: 82 Resp: 67214

Ion Ratio Lower Upper

82 100

128 46.3 34.2 51.2

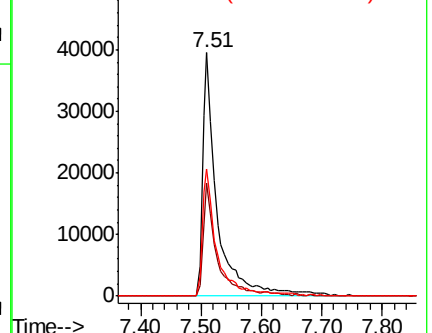
54 52.4 38.6 58.0

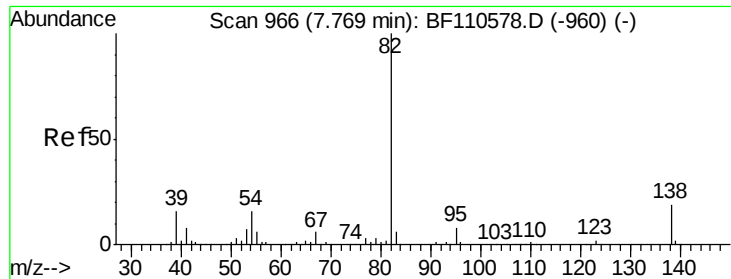


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 9.567 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.26 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

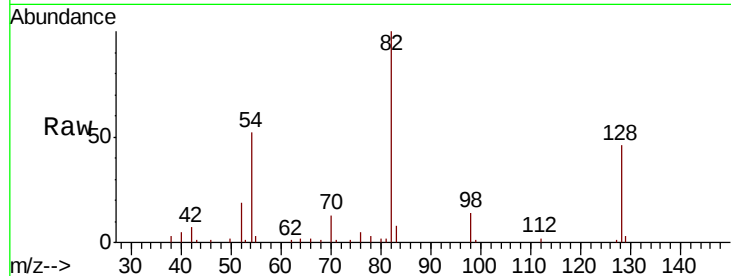
Tgt Ion: 82 Resp: 67214

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

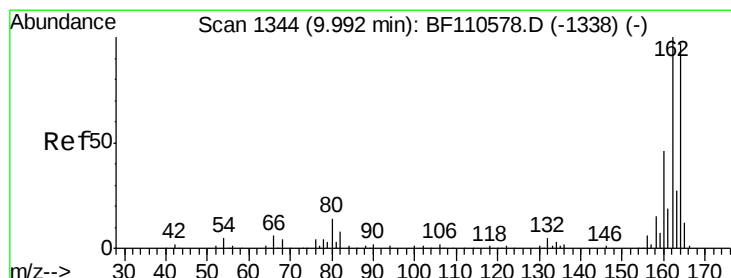
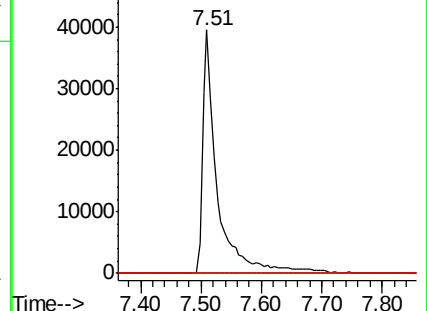
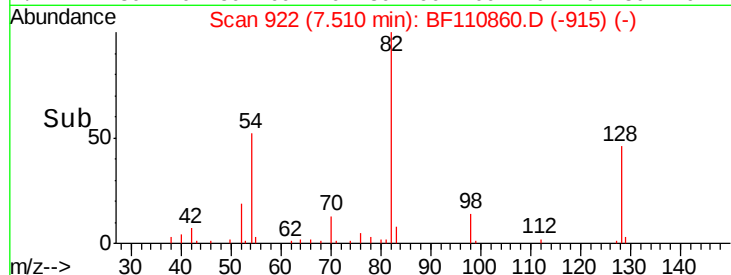
138 0.0 13.2 19.8#



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: 9.98 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

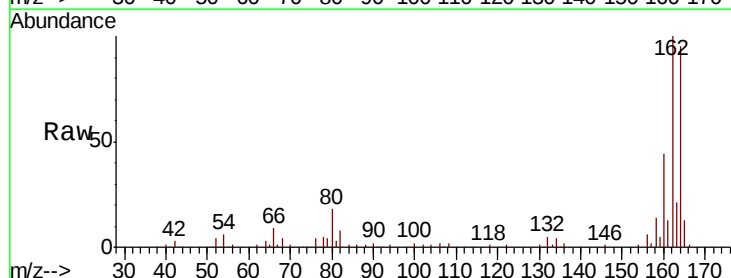
Tgt Ion: 164 Resp: 108523

Ion Ratio Lower Upper

164 100

162 105.7 83.0 124.6

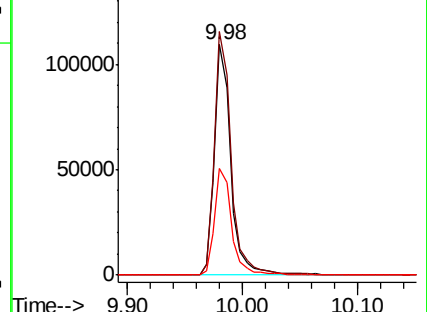
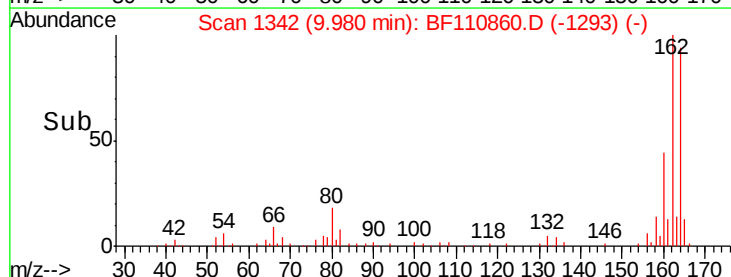
160 46.4 37.0 55.6

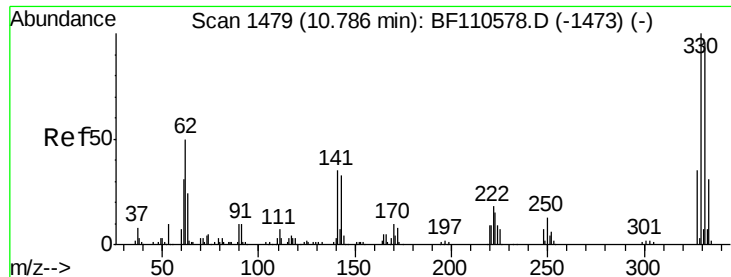


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 17.330 ng

RT: 10.78 min Scan# 1478

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

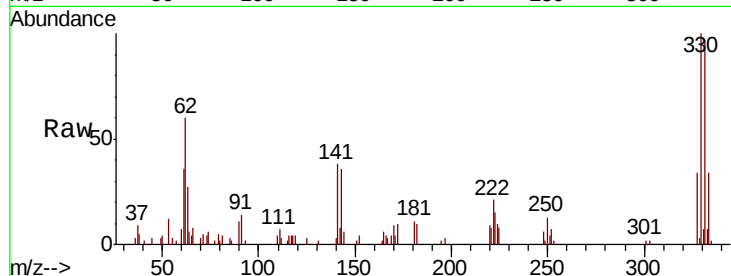
Tgt Ion:330 Resp: 18950

Ion Ratio Lower Upper

330 100

332 97.9 77.1 115.7

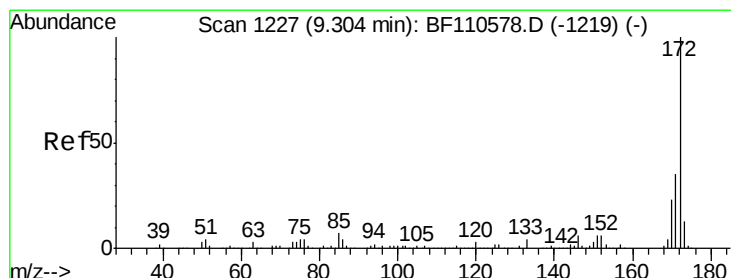
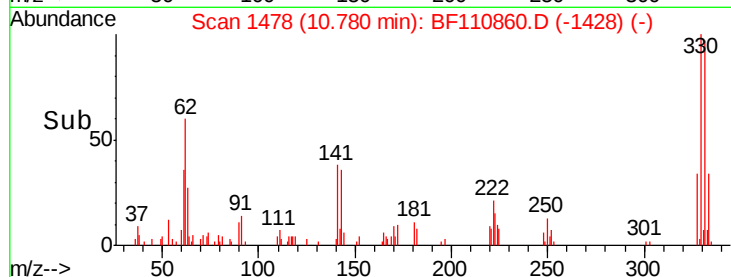
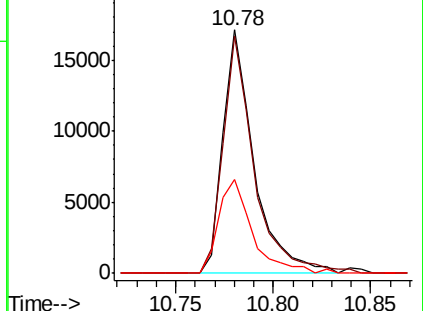
141 41.8 27.0 40.4#



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: 16.460 ng

RT: 9.30 min Scan# 1226

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

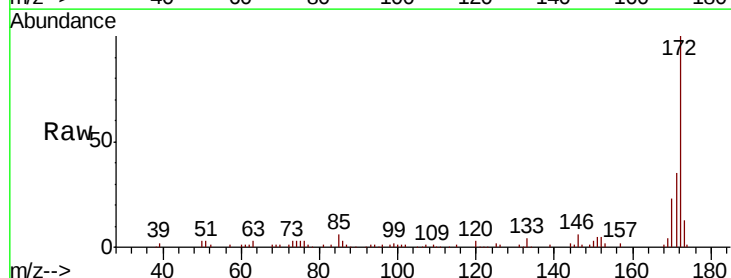
Tgt Ion:172 Resp: 125072

Ion Ratio Lower Upper

172 100

171 35.0 28.6 43.0

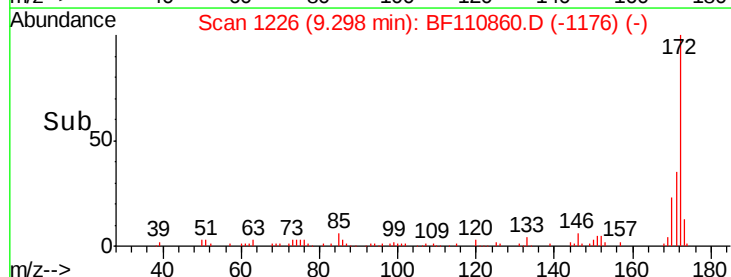
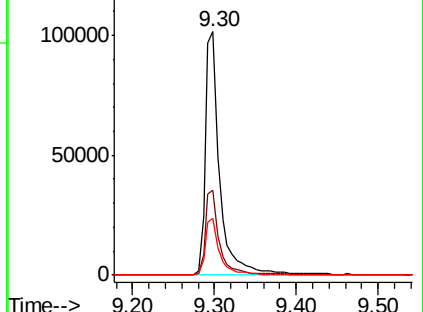
170 23.3 19.7 29.5

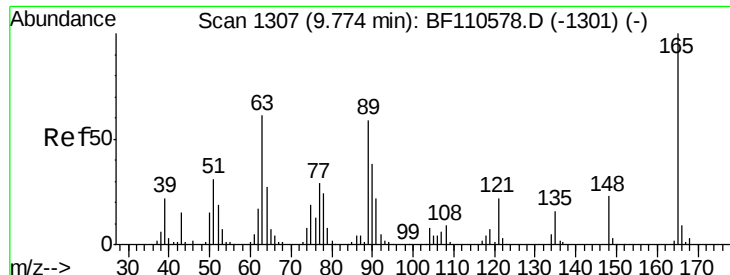


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

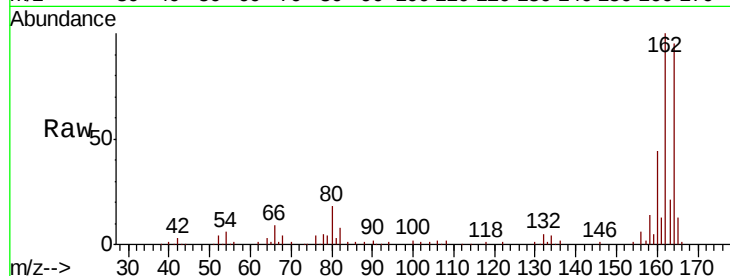




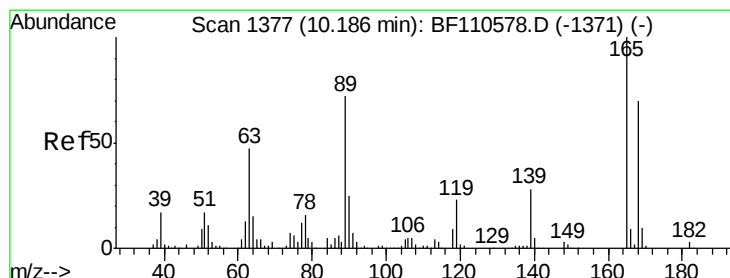
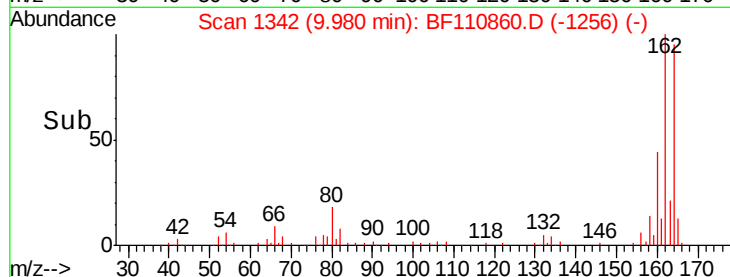
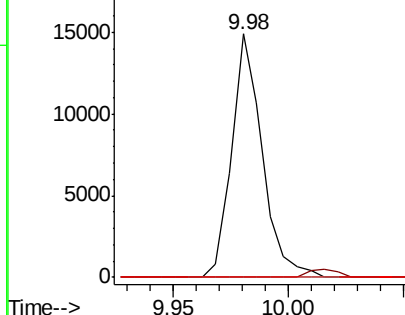
#51
 2,6-Dinitrotoluene
 Concen: 7.670 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. 0.21 min
 Lab File: BF110860.D
 Acq: 19 Nov 2018 18:26

Instrument :
 BNA_F
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 DUP-01

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	48.9	73.3#
89	0.0	46.6	69.8#



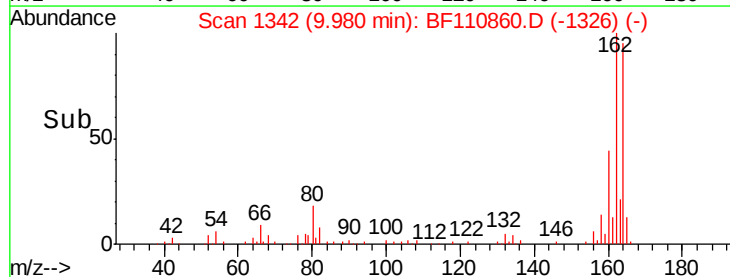
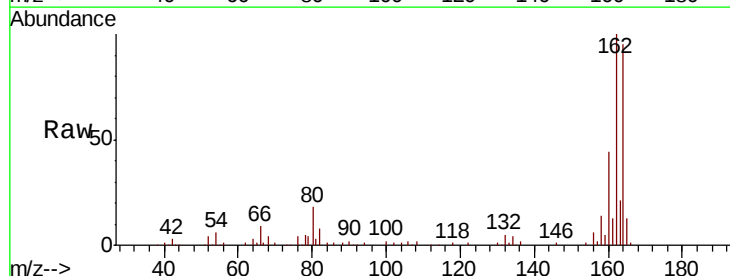
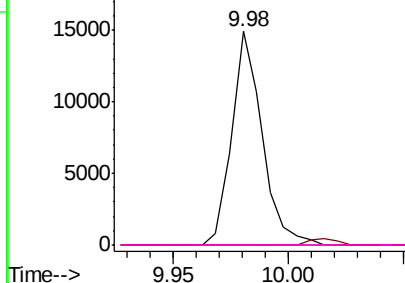
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

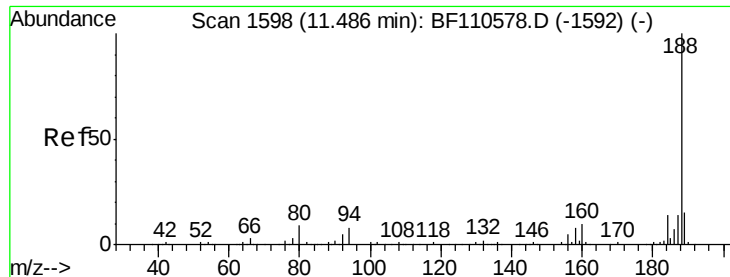


#57
 2,4-Dinitrotoluene
 Concen: 5.899 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. -0.21 min
 Lab File: BF110860.D
 Acq: 19 Nov 2018 18:26

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.8	67.2#
89	0.0	62.2	93.4#
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

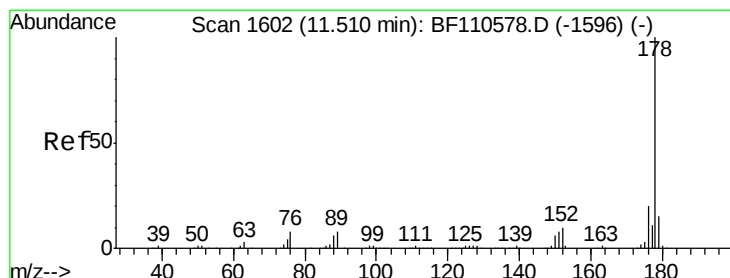
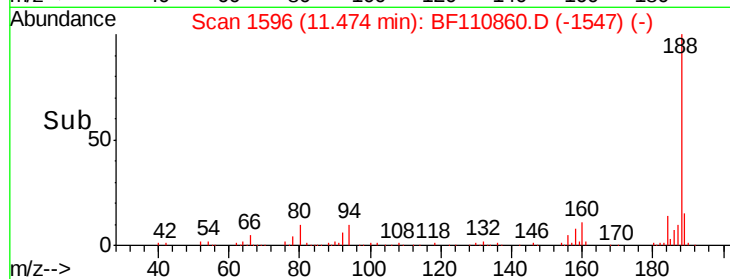
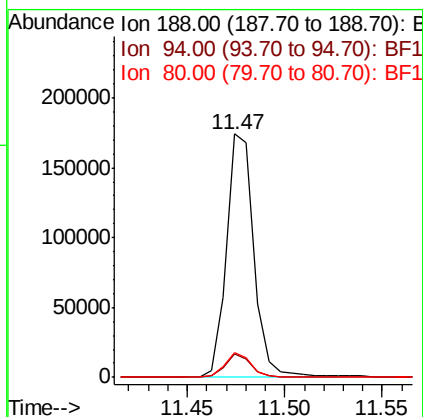
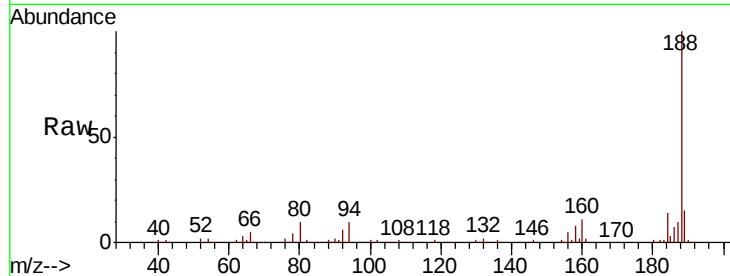




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.01 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

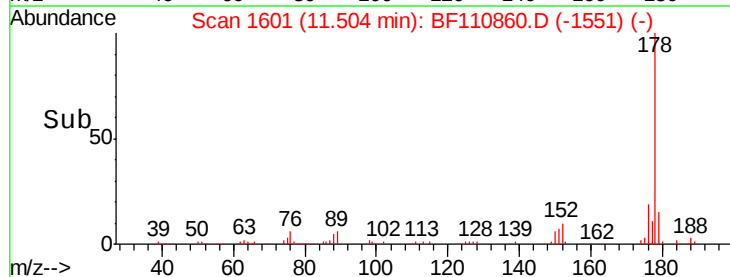
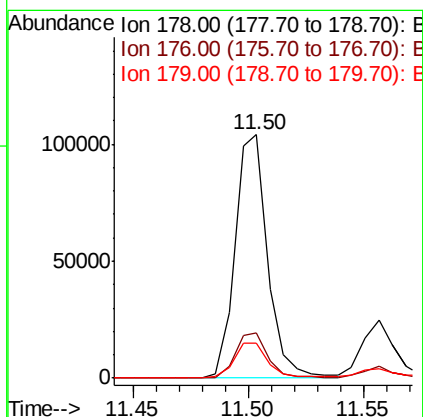
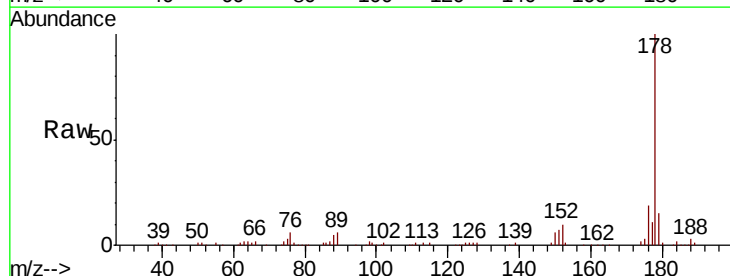
Instrument :
BNA_F
ClientSampleId :
DUP-01

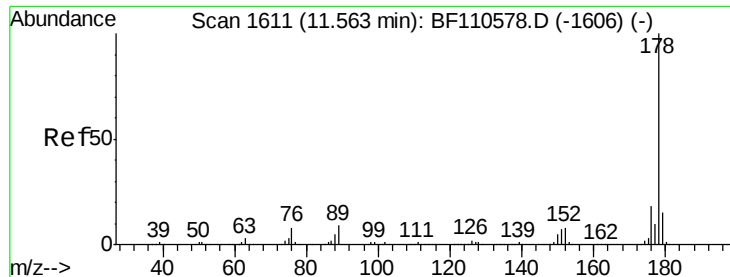
Tgt Ion:188 Resp: 169529
Ion Ratio Lower Upper
188 100
94 9.6 7.2 10.8
80 10.0 7.9 11.9



#71
Phenanthrene
Concen: 11.285 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

Tgt Ion:178 Resp: 102493
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 14.6 12.5 18.7





#72

Anthracene

Concen: 3.122 ng

RT: 11.56 min Scan# 1610

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampled :

DUP-01

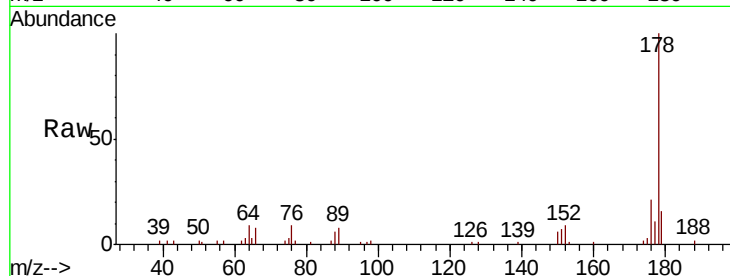
Tgt Ion:178 Resp: 28602

Ion Ratio Lower Upper

178 100

176 20.6 15.4 23.2

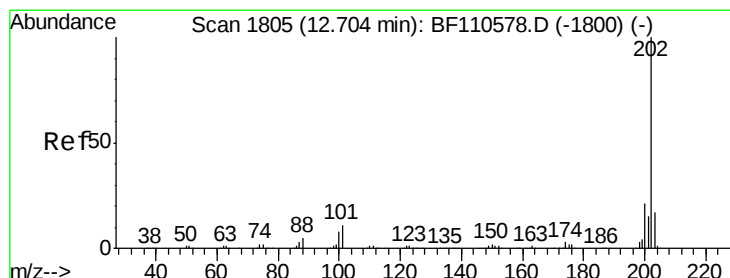
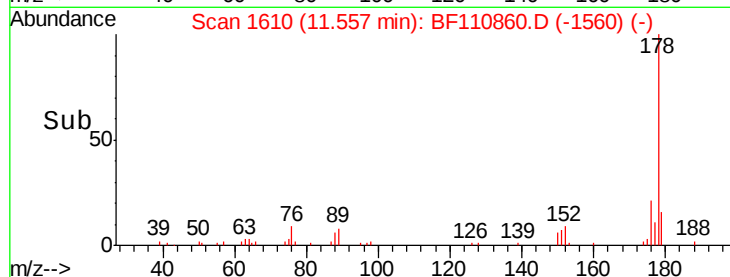
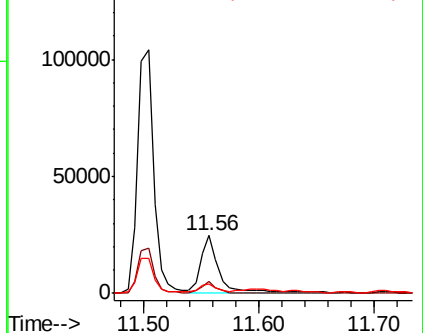
179 16.1 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 16.262 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

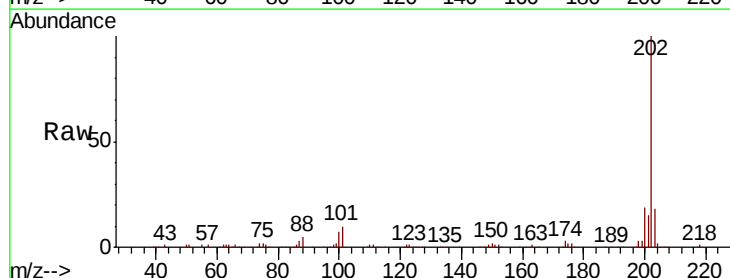
Tgt Ion:202 Resp: 148078

Ion Ratio Lower Upper

202 100

101 10.3 0.0 31.4

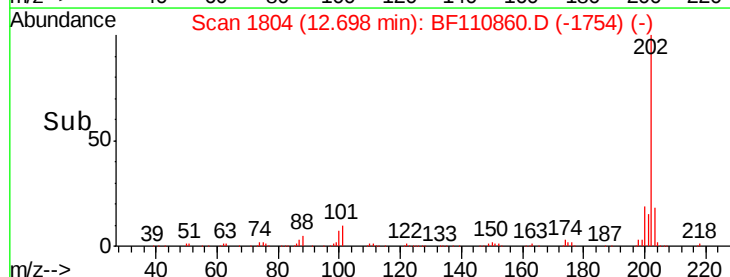
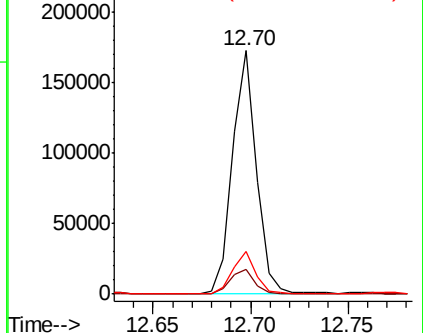
203 17.6 0.0 37.7

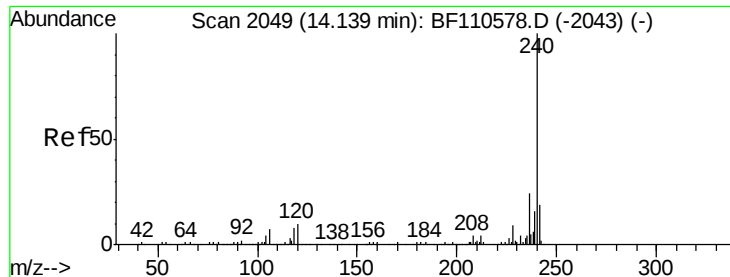


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.13 min Scan# 2047

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

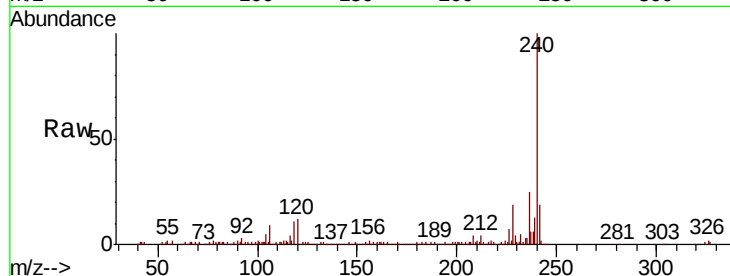
Tgt Ion:240 Resp: 146444

Ion Ratio Lower Upper

240 100

120 12.4 8.3 12.5

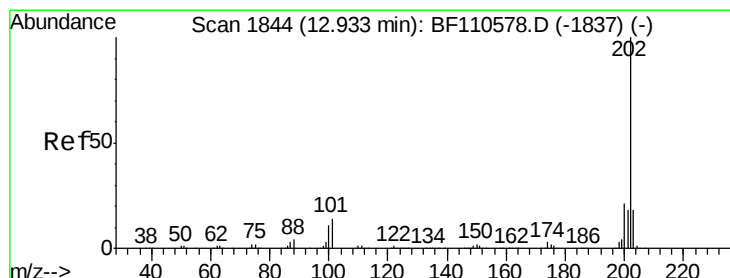
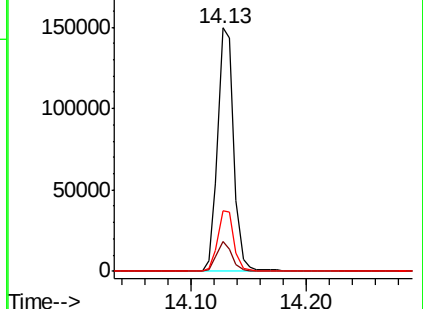
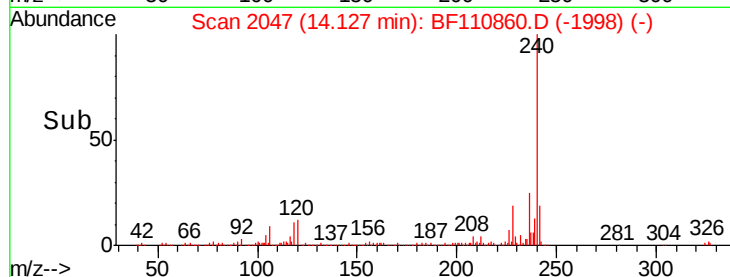
236 25.0 21.2 31.8



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: 12.111 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

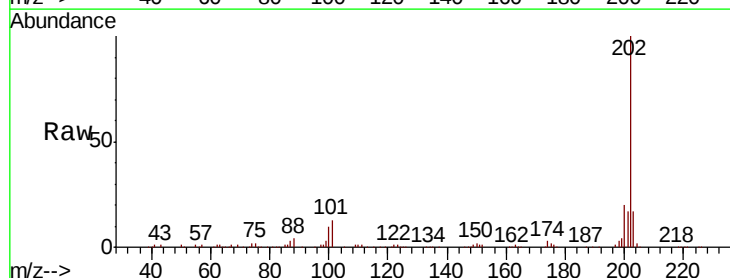
Tgt Ion:202 Resp: 136560

Ion Ratio Lower Upper

202 100

200 20.4 17.8 26.6

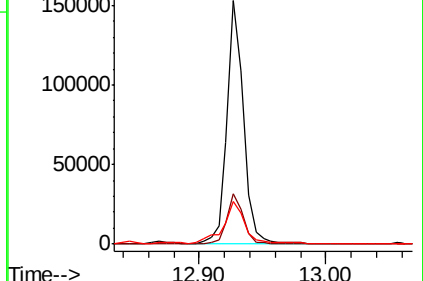
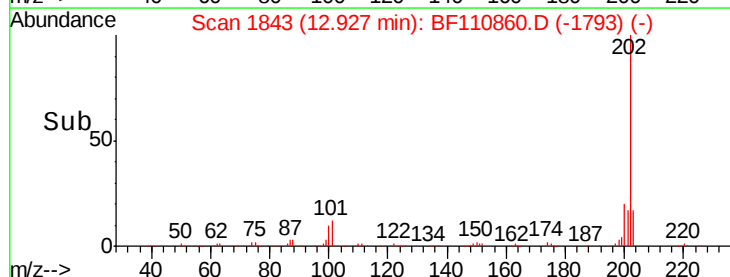
203 17.3 14.2 21.4

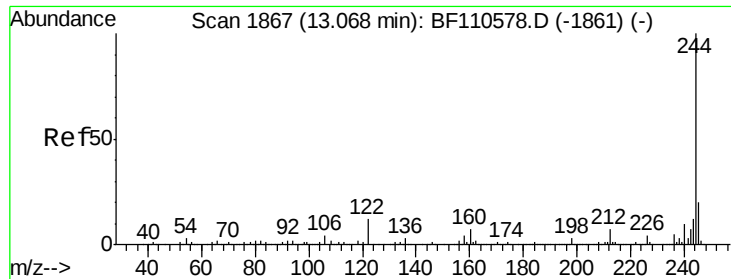


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 12.425 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

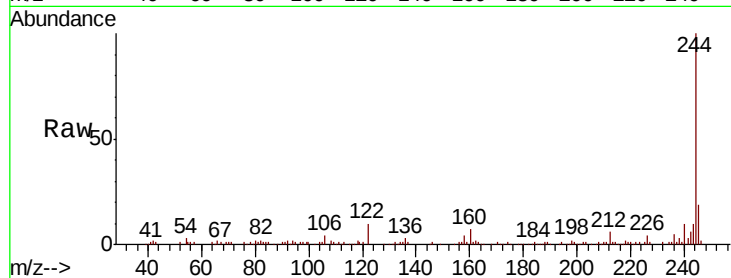
Tgt Ion:244 Resp: 97160

Ion Ratio Lower Upper

244 100

212 6.1 5.8 8.8

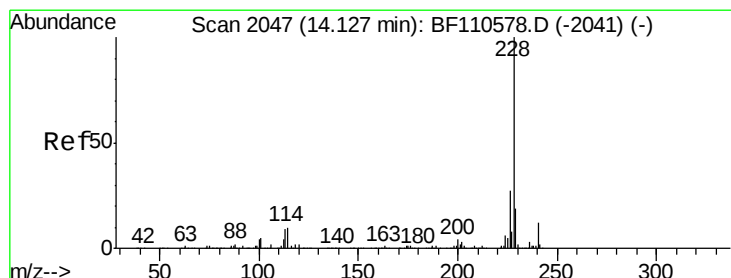
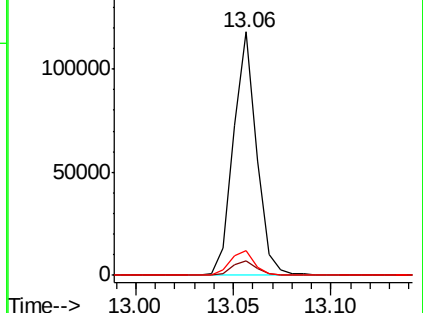
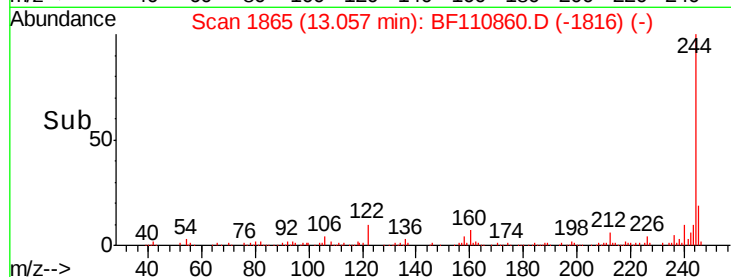
122 10.4 8.7 13.1



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: 7.949 ng

RT: 14.12 min Scan# 2046

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

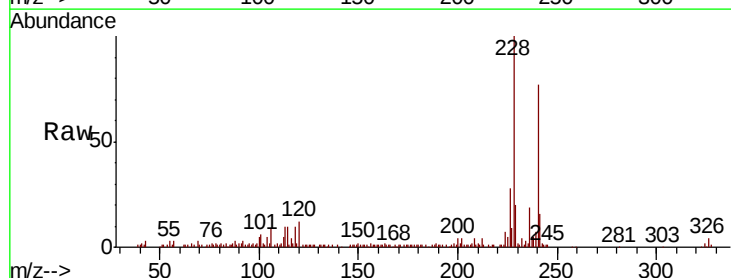
Tgt Ion:228 Resp: 69579

Ion Ratio Lower Upper

228 100

226 27.5 22.1 33.1

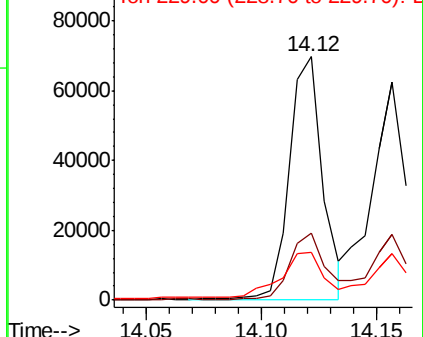
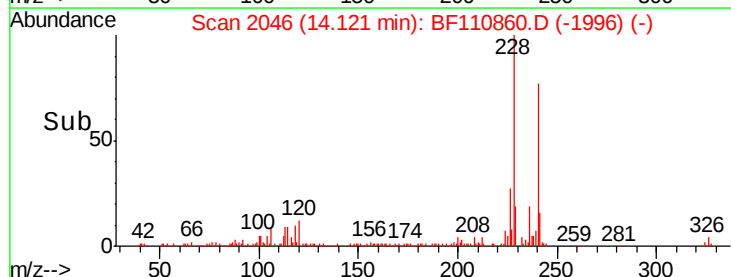
229 19.8 15.6 23.4

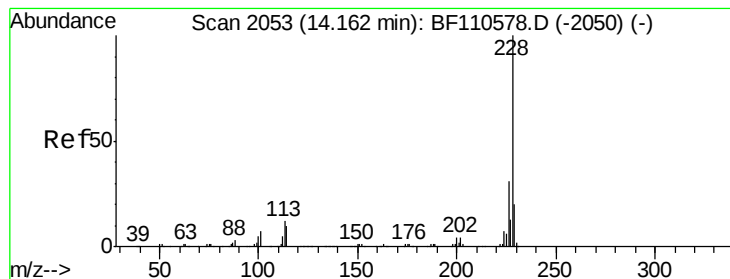


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 7.820 ng

RT: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

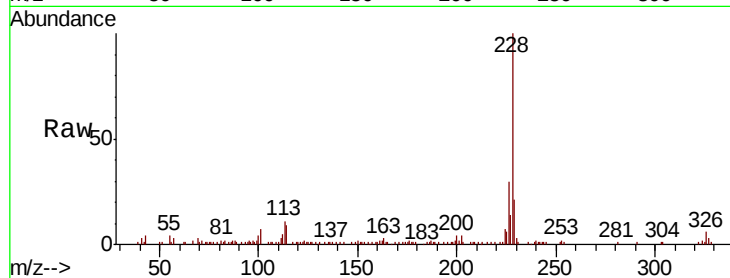
Tgt Ion:228 Resp: 65208

Ion Ratio Lower Upper

228 100

226 30.0 24.7 37.1

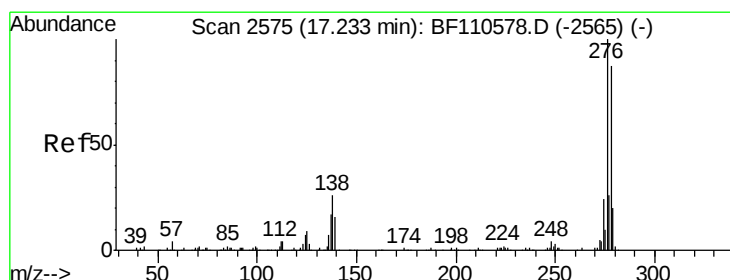
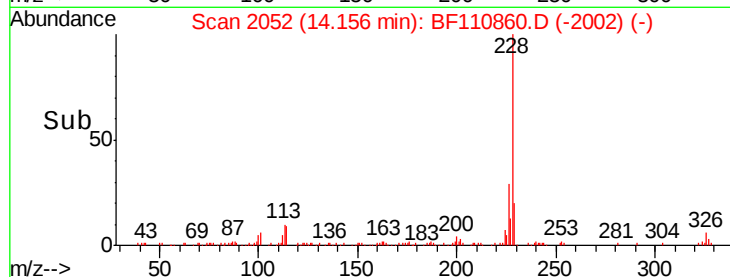
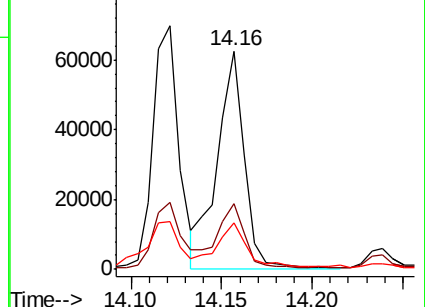
229 21.3 15.9 23.9



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

Indeno(1,2,3-cd)pyrene

Concen: 3.714 ng

RT: 17.24 min Scan# 2577

Delta R.T. 0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

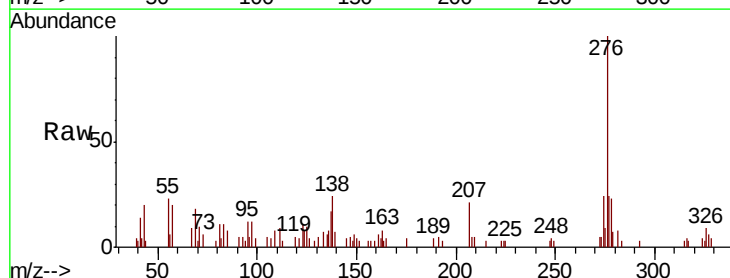
Tgt Ion:276 Resp: 22222

Ion Ratio Lower Upper

276 100

138 25.4 18.5 27.7

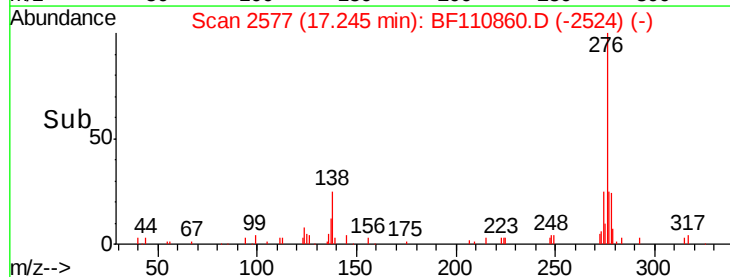
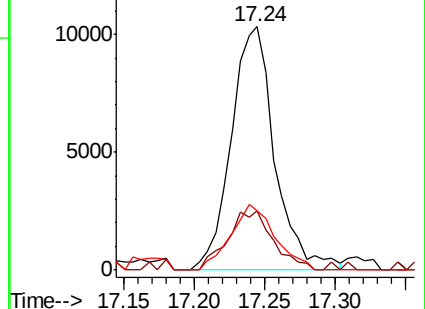
277 27.3 20.0 30.0

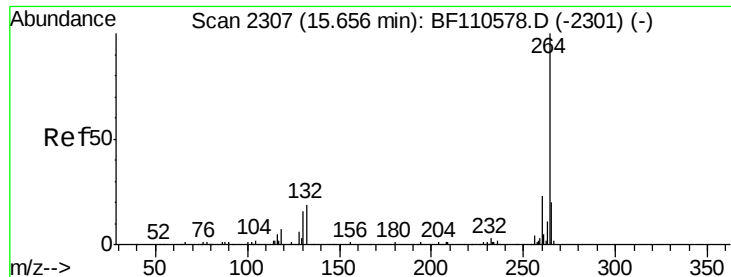


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2308

Delta R.T. 0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

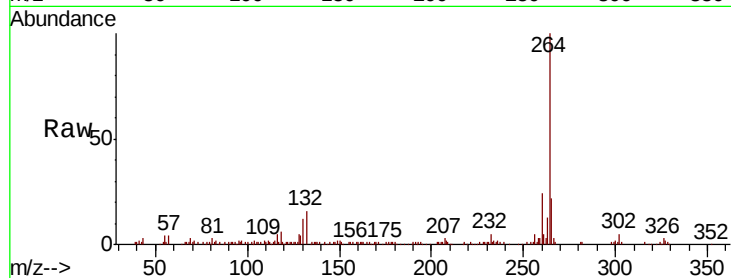
Tgt Ion:264 Resp: 102689

Ion Ratio Lower Upper

264 100

260 24.2 18.7 28.1

265 21.6 16.7 25.1

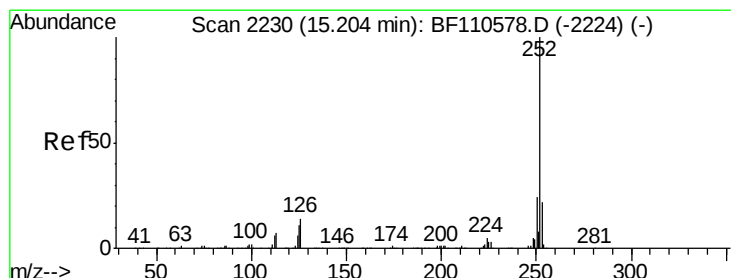
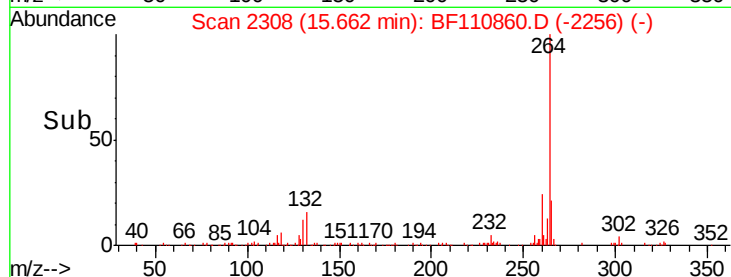
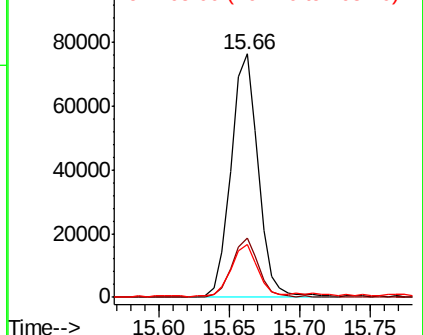


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 13.193 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.00 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

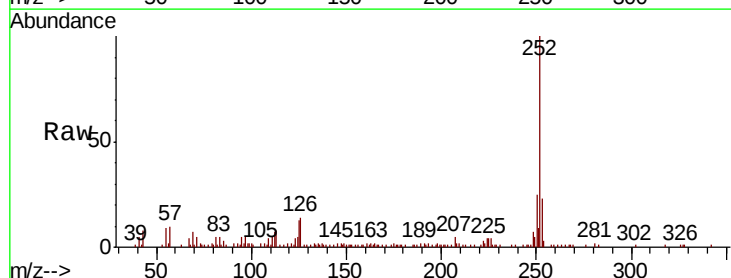
Tgt Ion:252 Resp: 81045

Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

125 13.2 8.2 12.4#

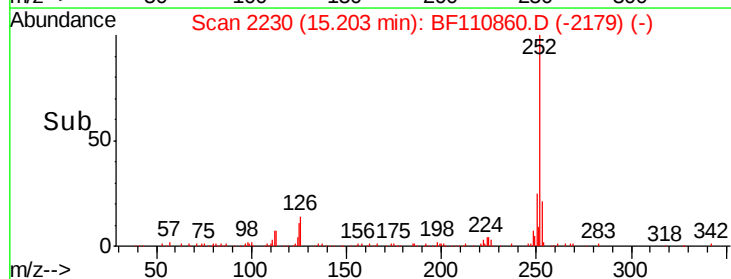
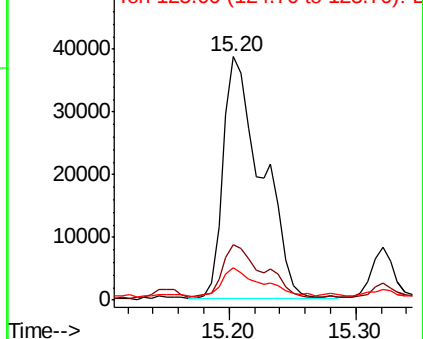


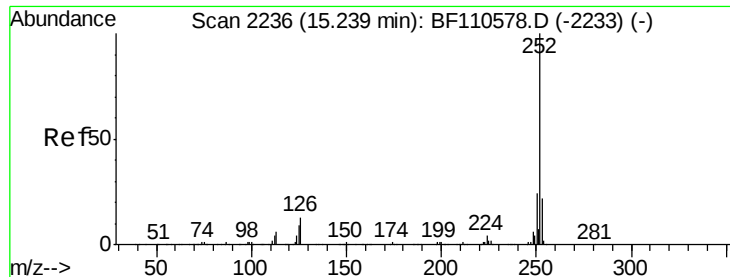
Abundance

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

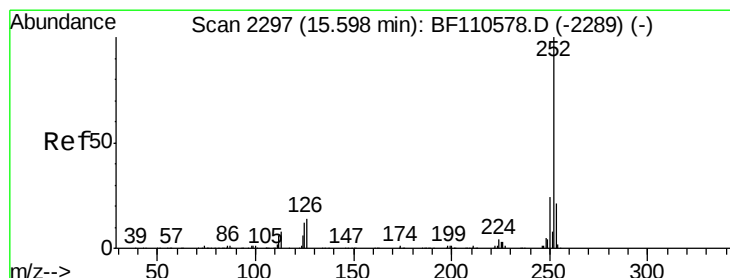
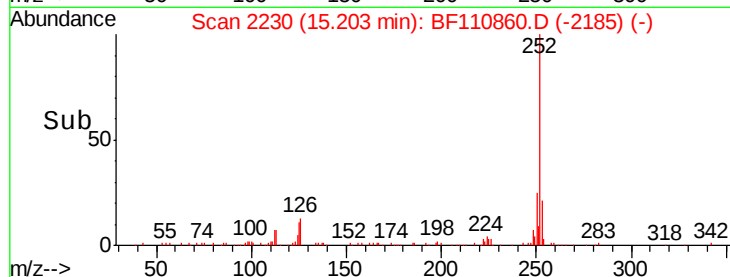
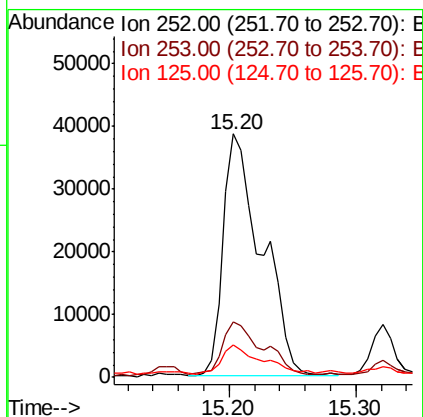
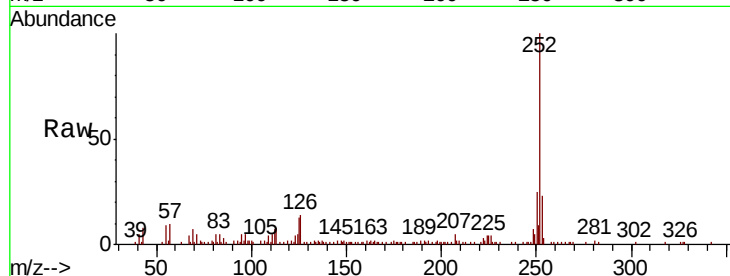




#89
Benzo(k)fluoranthene
Concen: 13.416 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.04 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

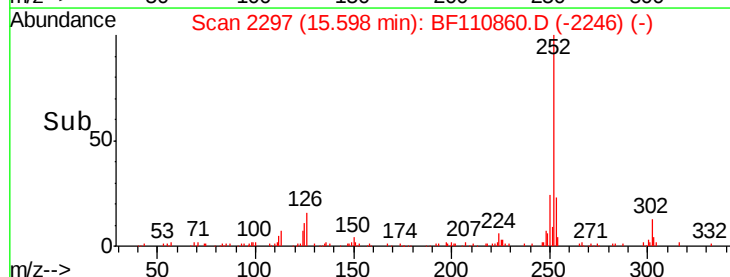
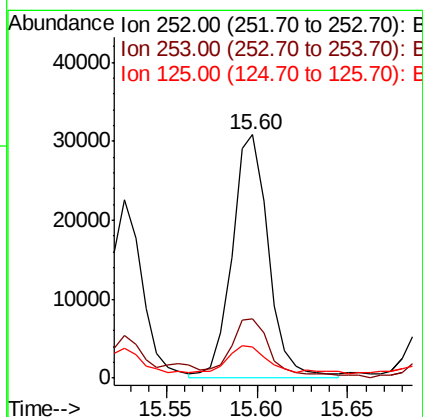
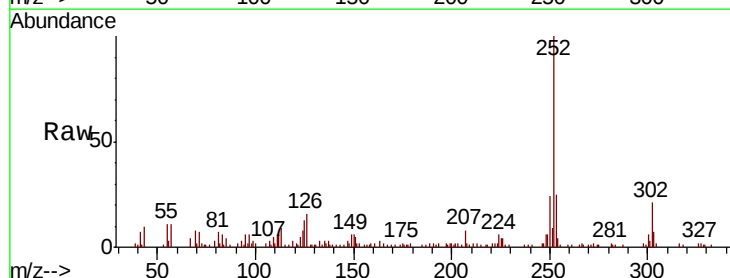
Instrument :
BNA_F
ClientSampled :
DUP-01

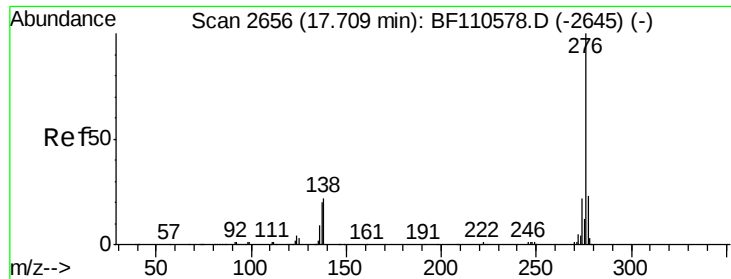
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.2	25.8
125	13.2	7.4	11.0



#90
Benzo(a)pyrene
Concen: 7.717 ng
RT: 15.60 min Scan# 2297
Delta R.T. -0.00 min
Lab File: BF110860.D
Acq: 19 Nov 2018 18:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.4
125	12.7	9.0	13.6





#92

Benzo(g,h,i)perylene

Concen: 4.340 ng

RT: 17.72 min Scan# 2658

Delta R.T. 0.01 min

Lab File: BF110860.D

Acq: 19 Nov 2018 18:26

Instrument :

BNA_F

ClientSampleId :

DUP-01

Tgt Ion: 276 Resp: 20341

Ion Ratio Lower Upper

276 100

277 27.8 18.8 28.2

138 19.7 16.0 24.0

