

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102618\
 Data File : BF110223.D
 Acq On : 26 Oct 2018 21:25
 Operator : JU/SJ
 Sample : J5204-13 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 26 23:42:03 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 23 15:06:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	108995	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	420347	20.00	ng	-0.02
39) Acenaphthene-d10	10.01	164	156412	20.00	ng	-0.02
64) Phenanthrene-d10	11.50	188	254194	20.00	ng	-0.01
76) Chrysene-d12	14.15	240	188470	20.00	ng	-0.01
87) Perylene-d12	15.68	264	127919	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.58	112	104529	15.62	ng	-0.02
7) Phenol-d6	6.58	99	143374	16.75	ng	-0.02
23) Nitrobenzene-d5	7.53	82	73267	10.34	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	20180	13.02	ng	-0.01
45) 2-Fluorobiphenyl	9.32	172	153927	15.45	ng	-0.02
79) Terphenyl-d14	13.09	244	124810	13.77	ng	-0.02

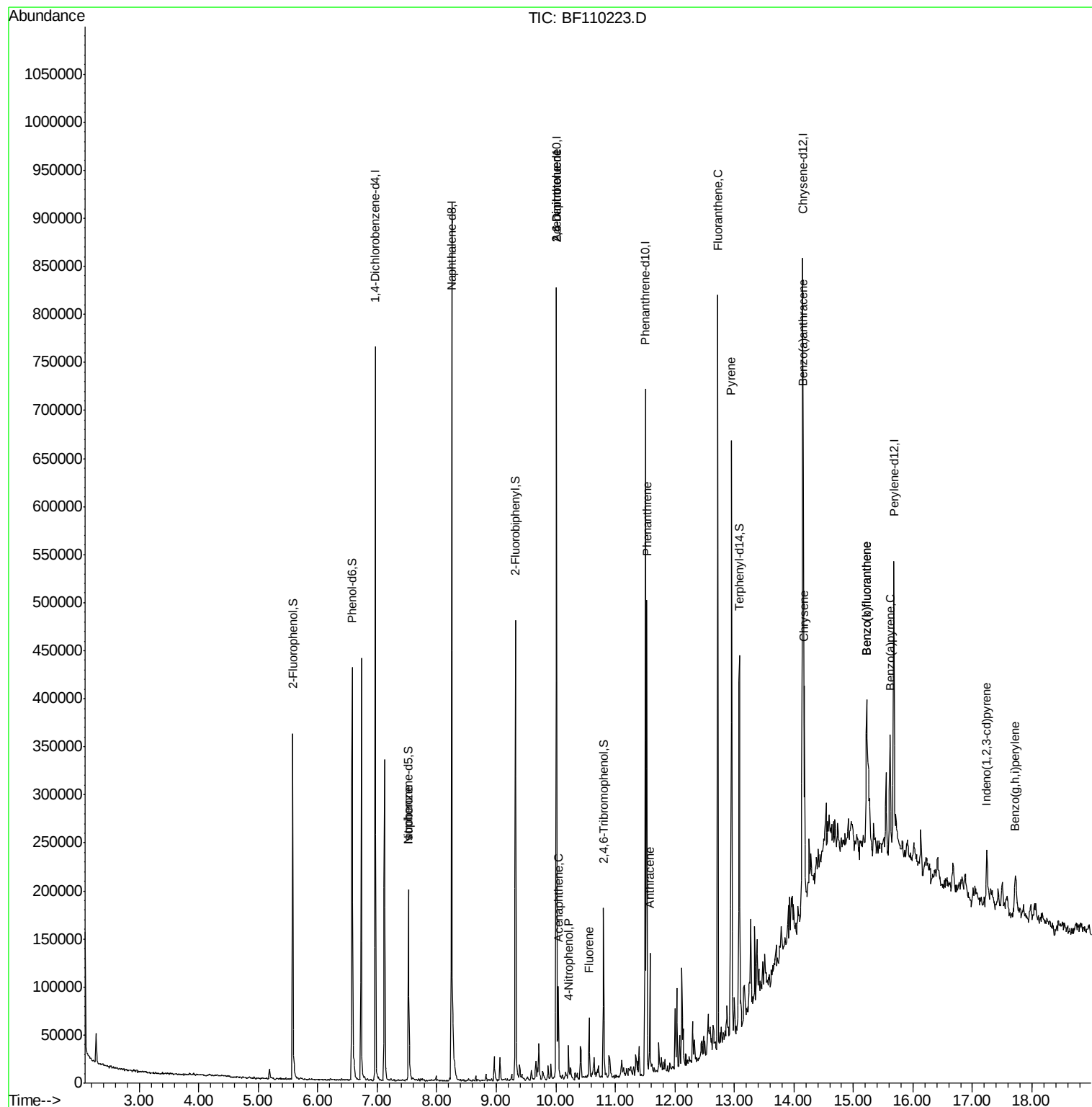
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.58	77	134	Below Cal		# 1
25) Isophorone	7.53	82	73266	6.065	ng	# 67
51) 2,6-Dinitrotoluene	10.01	165	20327	8.173	ng	# 24
52) Acenaphthene	10.05	154	21466	2.165	ng	95
56) 4-Nitrophenol	10.22	139	5691	2.600	ng	# 6
57) 2,4-Dinitrotoluene	10.01	165	20327	6.435	ng	# 20
58) Fluorene	10.56	166	21042	2.037	ng	93
71) Phenanthrene	11.53	178	172897	12.999	ng	99
72) Anthracene	11.58	178	54596	4.095	ng	98
75) Fluoranthene	12.72	202	276673	20.496	ng	99
78) Pyrene	12.95	202	243597	18.029	ng	98
81) Benzo(a)anthracene	14.14	228	102714	9.190	ng	99
83) Chrysene	14.17	228	87280	8.222	ng	96
86) Indeno(1,2,3-cd)pyrene	17.24	276	32560	3.697	ng	98
88) Benzo(b)fluoranthene	15.22	252	108640	14.707	ng	# 91
89) Benzo(k)fluoranthene	15.22	252	108640	14.960	ng	# 90
90) Benzo(a)pyrene	15.62	252	55955	8.232	ng	# 94
92) Benzo(g,h,i)perylene	17.73	276	34280	5.931	ng	97

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

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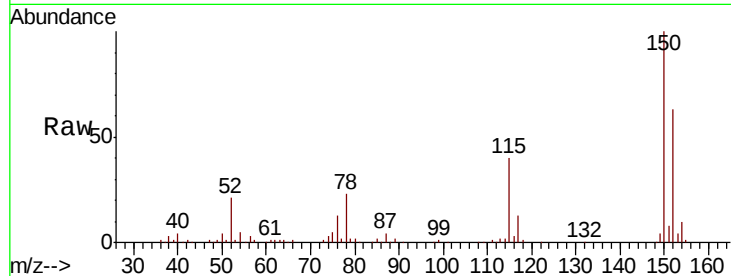


#1

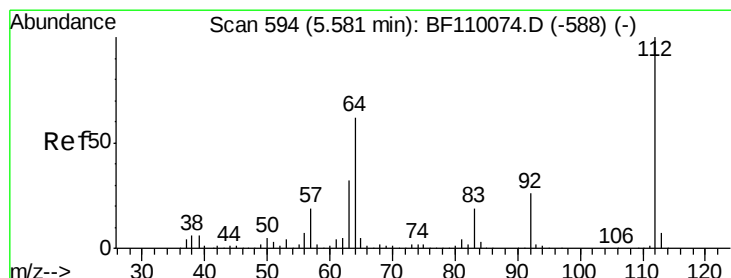
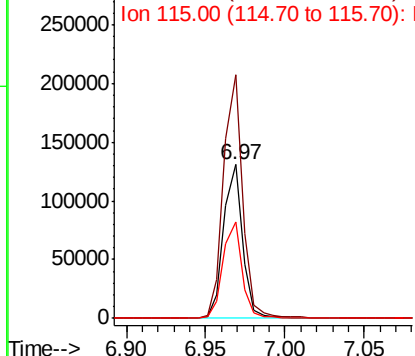
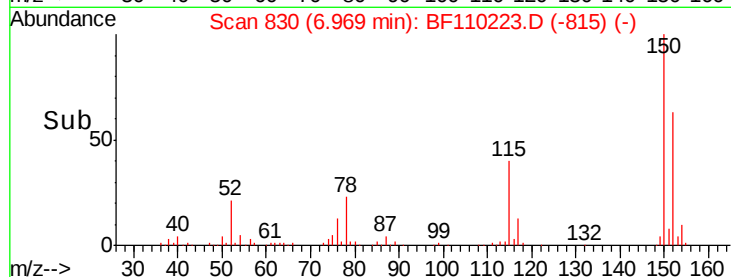
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. -0.01 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 108995
Ion Ratio Lower Upper
152 100
150 158.4 122.7 184.1
115 62.8 49.1 73.7



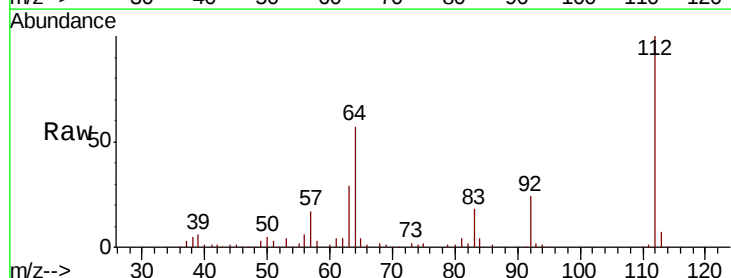
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



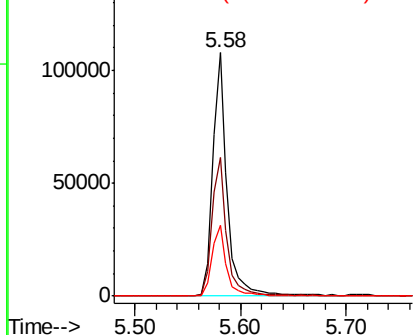
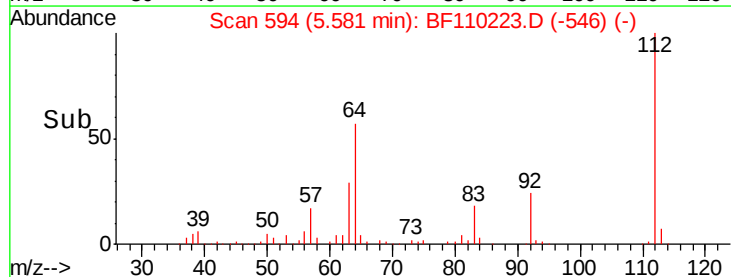
#5

2-Fluorophenol
Concen: 15.617 ng
RT: 5.58 min Scan# 594
Delta R.T. -0.02 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion:112 Resp: 104529
Ion Ratio Lower Upper
112 100
64 57.2 44.1 66.1
63 29.0 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: 16.747 ng

RT: 6.58 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Instrument :

BNA_F

ClientSampleId :

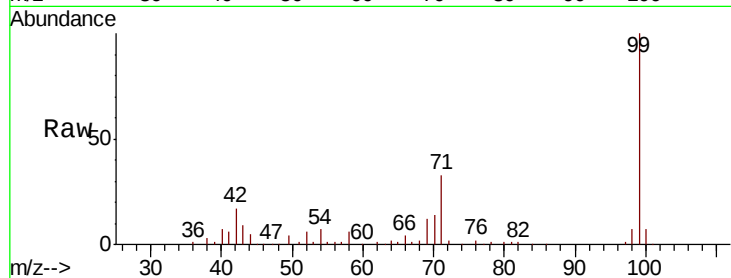
Tot Ion: 99 Resp: 143374

Ion Ratio Lower Upper

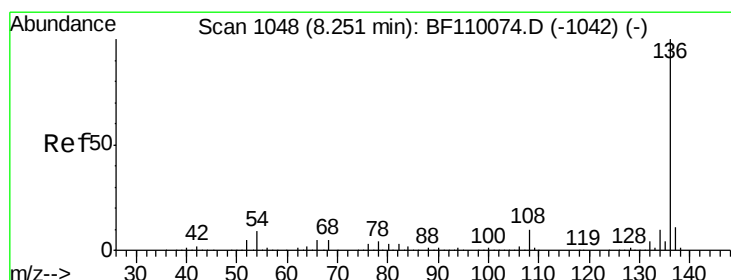
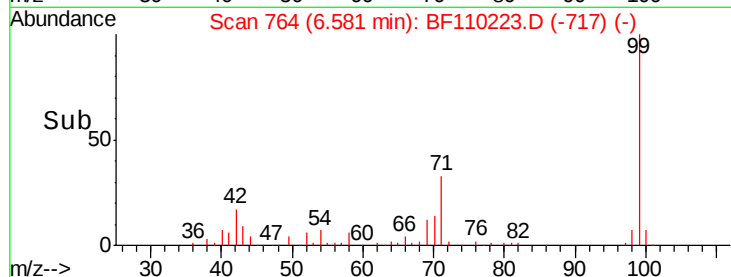
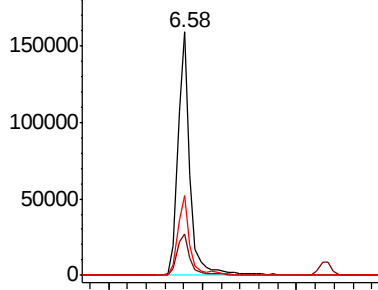
99 100

42 17.3 15.8 23.6

71 32.8 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1048

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Tgt Ion: 136 Resp: 420347

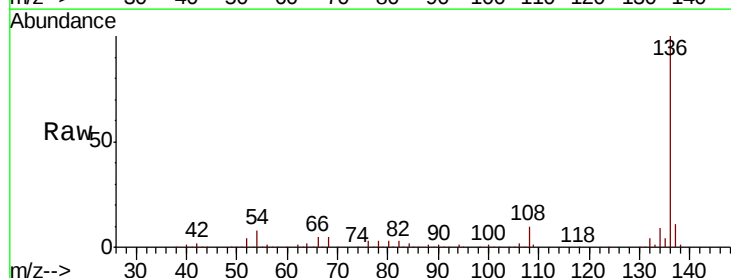
Ion Ratio Lower Upper

136 100

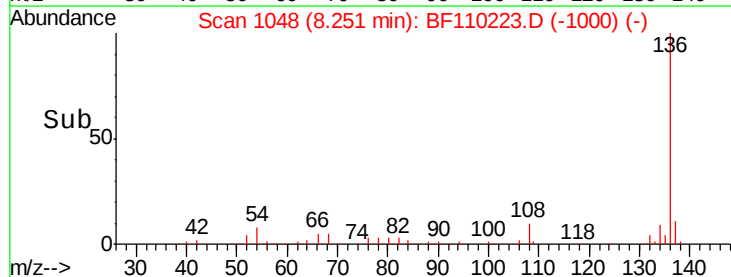
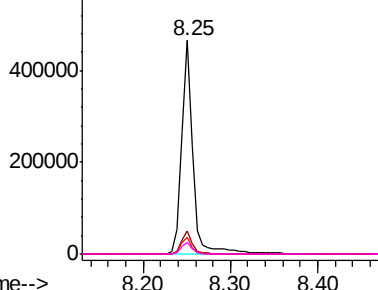
137 10.9 8.8 13.2

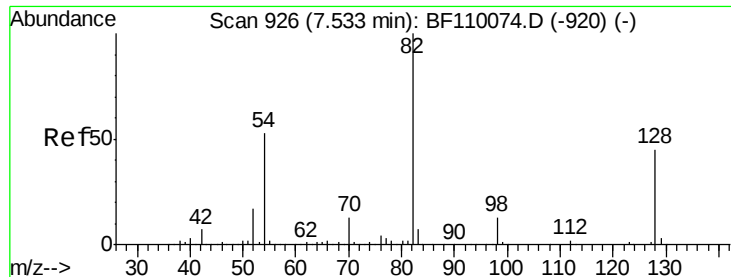
54 7.9 5.4 8.2

68 5.3 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

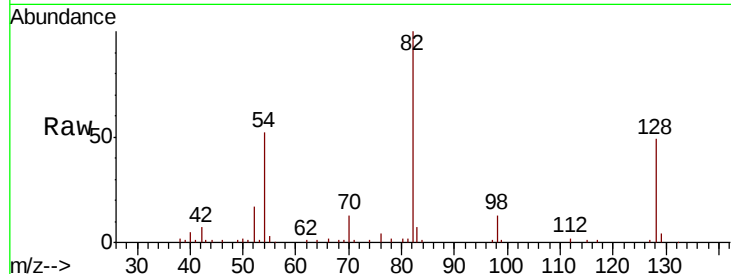




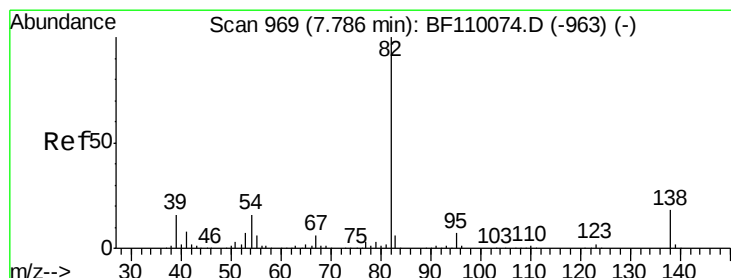
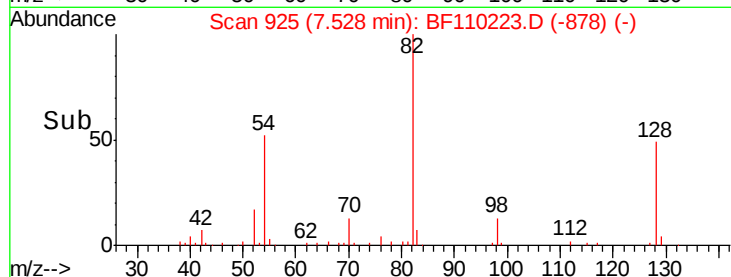
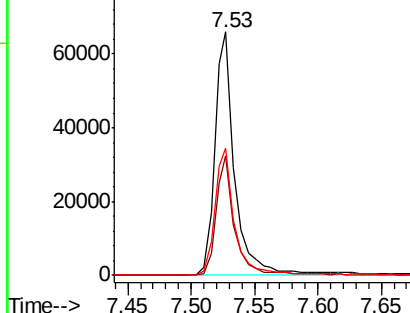
#23
Nitrobenzene-d5
Concen: 10.338 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.02 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampled :

Tot Ion	82	Resp	73267
Ion Ratio	100	Lower	Upper
128	49.0	34.2	51.2
54	52.0	38.6	58.0

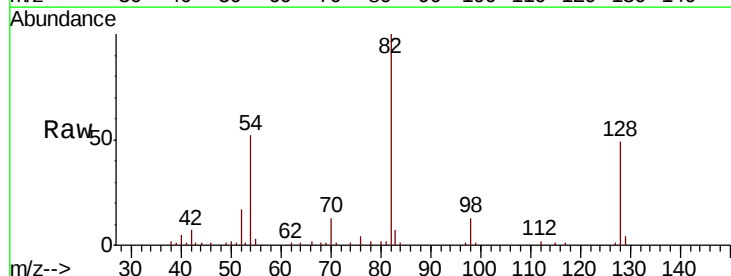


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

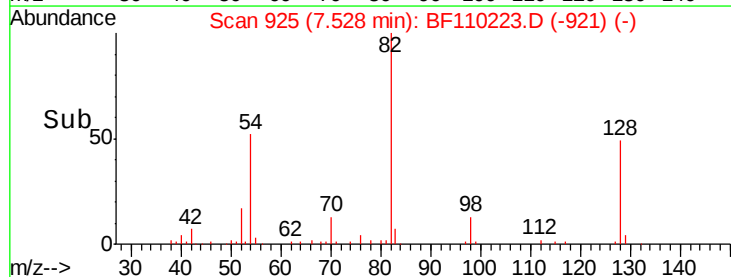
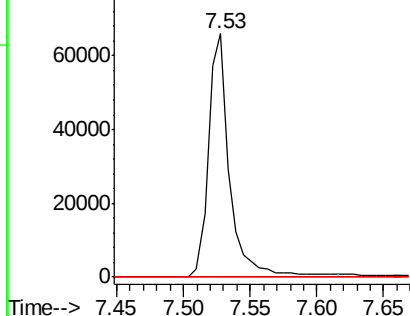


#25
Isophorone
Concen: 6.065 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.28 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion	82	Resp	73266
Ion Ratio	100	Lower	Upper
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: 10.01 min Scan# 1347

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Instrument :

BNA_F

ClientSampled :

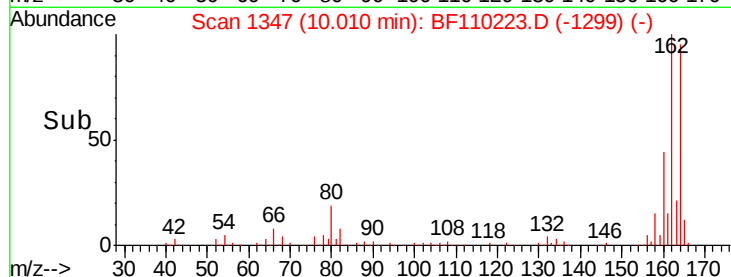
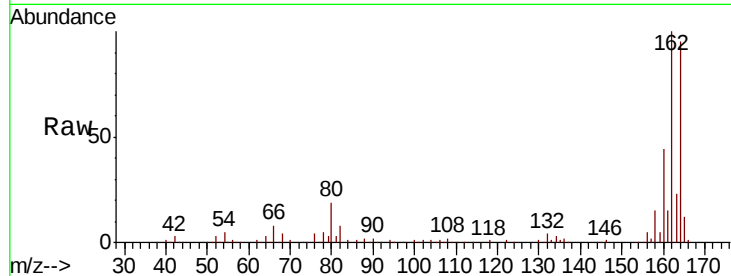
Tot Ion:164 Resp: 156412

Ion Ratio Lower Upper

164 100

162 105.1 83.0 124.6

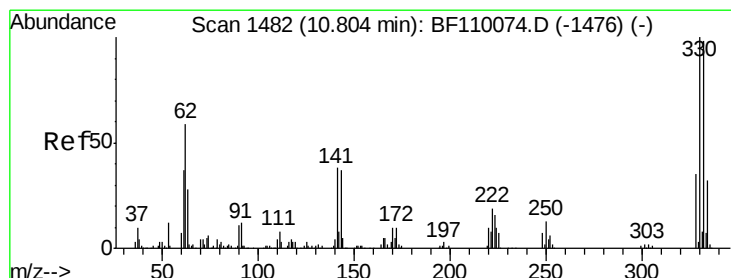
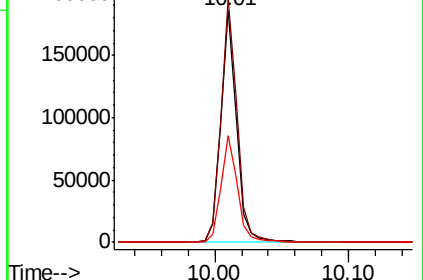
160 45.9 37.0 55.6



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: 13.025 ng

RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

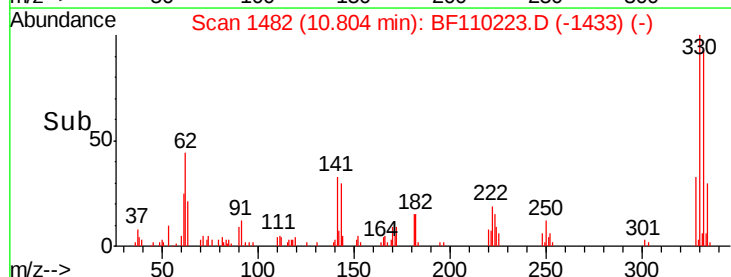
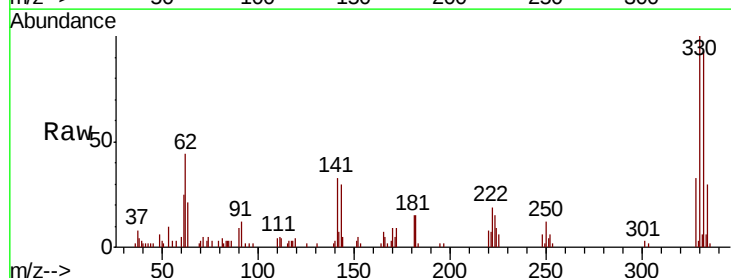
Tgt Ion:330 Resp: 20180

Ion Ratio Lower Upper

330 100

332 94.6 77.1 115.7

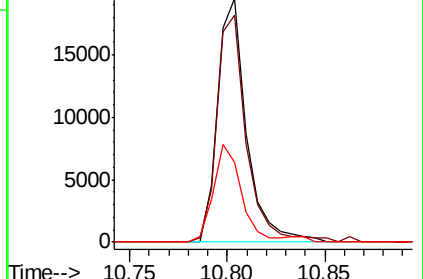
141 40.3 27.0 40.4

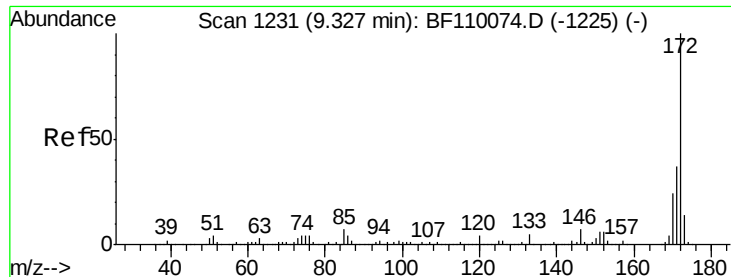


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

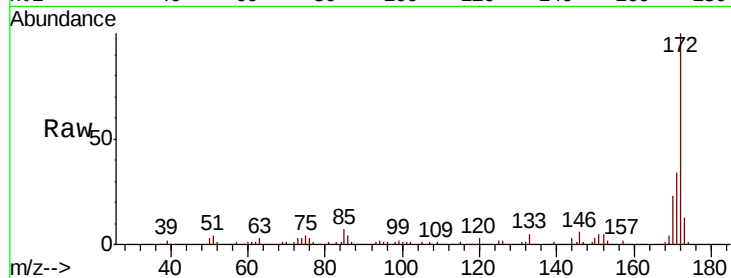




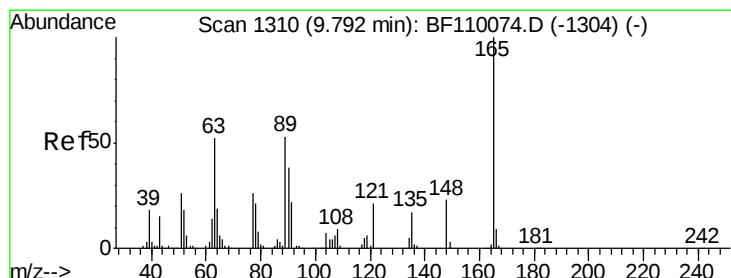
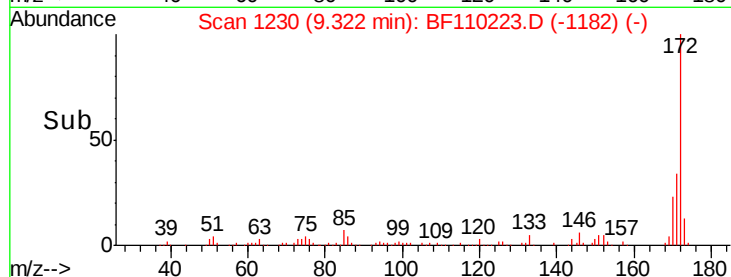
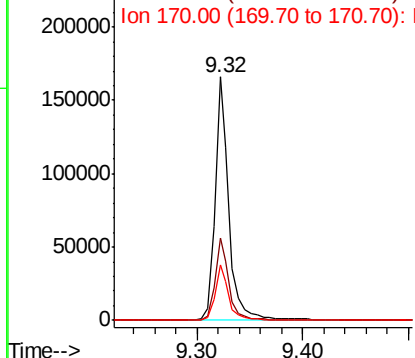
#45
2-Fluorobiphenyl
Concen: 15.453 ng
RT: 9.32 min Scan# 1230
Delta R.T. -0.02 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.8	28.6	43.0
170	22.6	19.7	29.5

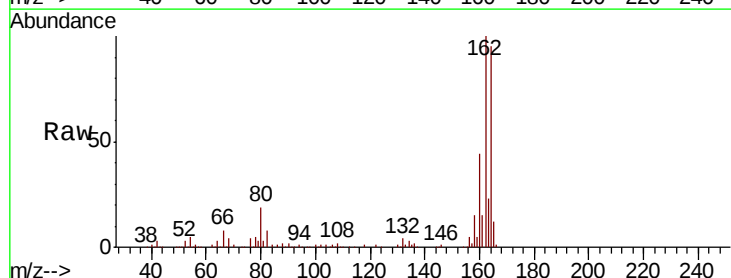


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

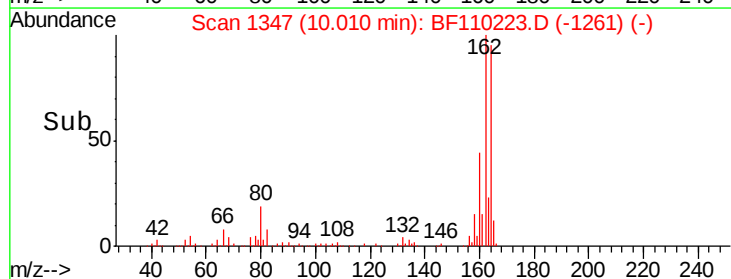
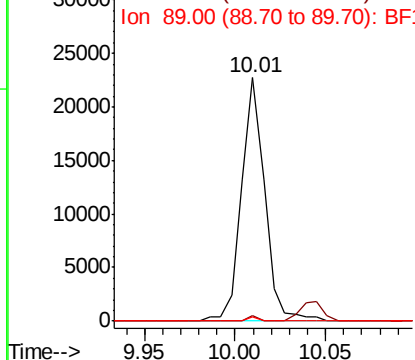


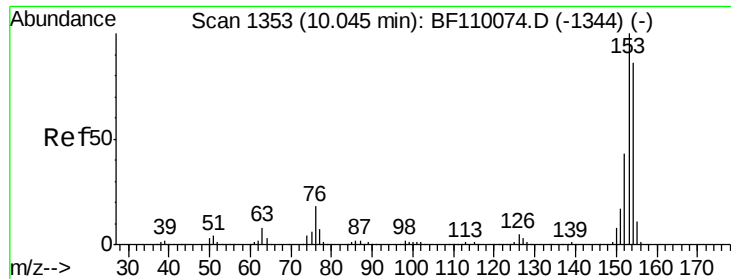
#51
2,6-Dinitrotoluene
Concen: 8.173 ng
RT: 10.01 min Scan# 1347
Delta R.T. 0.21 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.3	48.9	73.3#
89	1.7	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





#52

Acenaphthene

Concen: 2.165 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Instrument :

BNA_F

ClientSampleId :

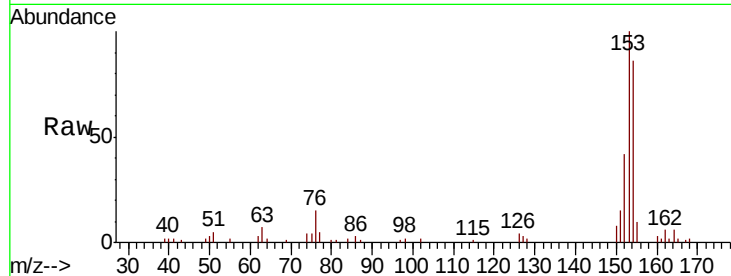
Tot Ion:154 Resp: 21466

Ion Ratio Lower Upper

154 100

153 116.9 90.1 135.1

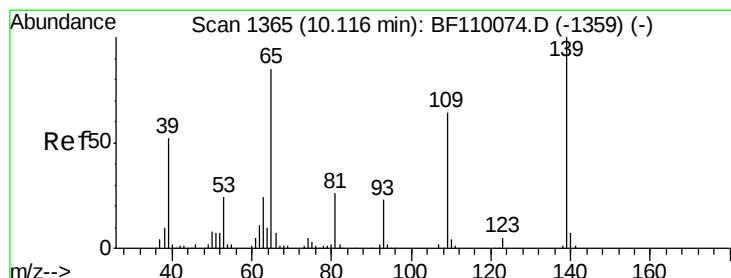
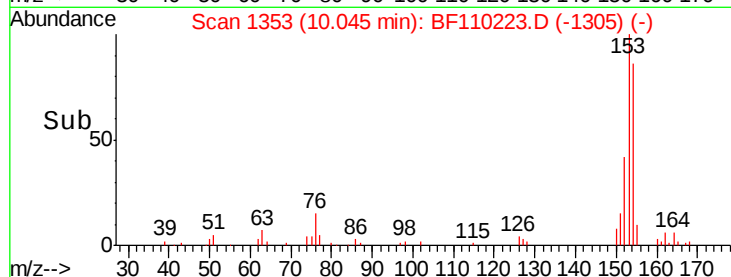
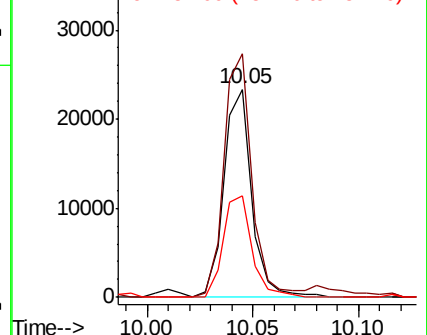
152 48.8 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

4-Nitrophenol

Concen: 2.600 ng

RT: 10.22 min Scan# 1382

Delta R.T. 0.09 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

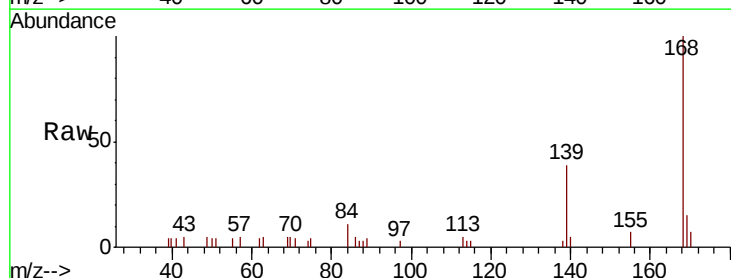
Tgt Ion:139 Resp: 5691

Ion Ratio Lower Upper

139 100

109 0.0 55.8 95.8#

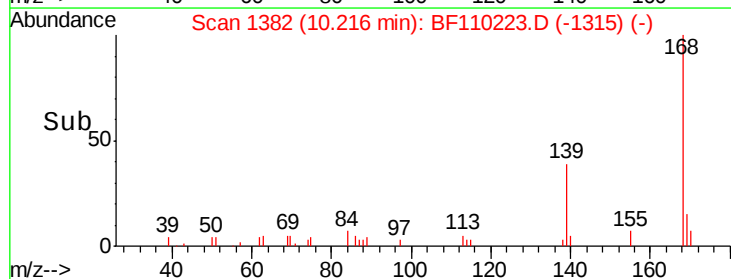
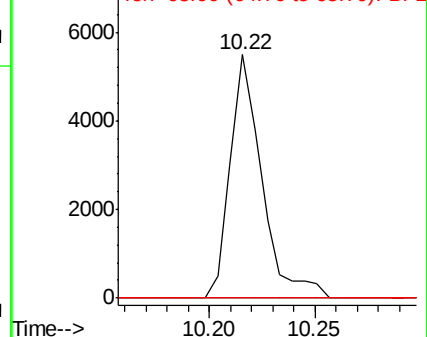
65 0.0 77.9 117.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

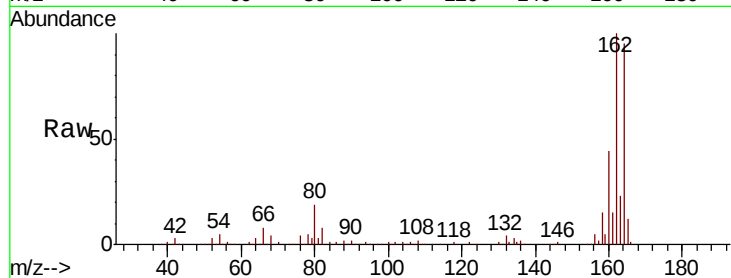




#57
2,4-Dinitrotoluene
Concen: 6.435 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.20 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	2.3	44.8	67.2#
89	1.7	62.2	93.4#
182	0.0	2.1	3.1#



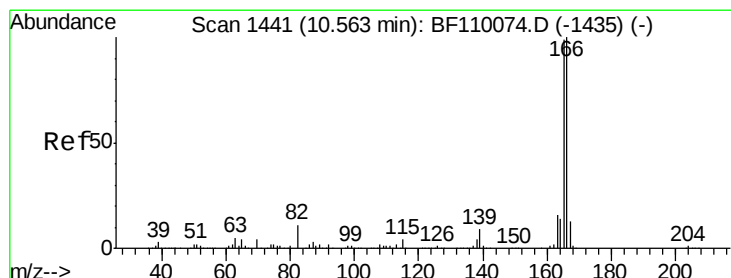
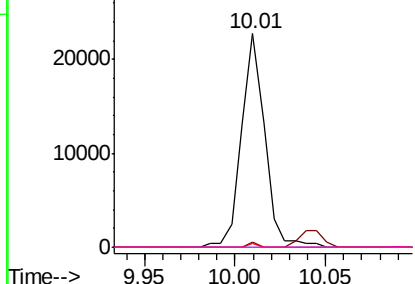
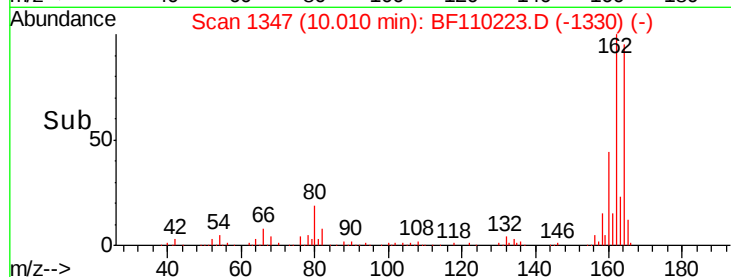
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

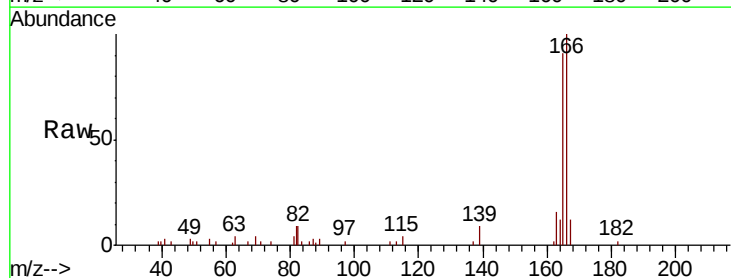
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#58
Fluorene
Concen: 2.037 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.8	78.6	117.8
167	12.4	10.8	16.2

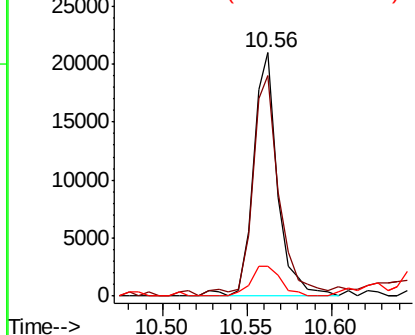
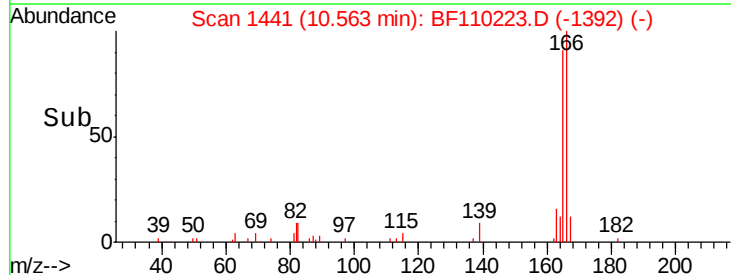


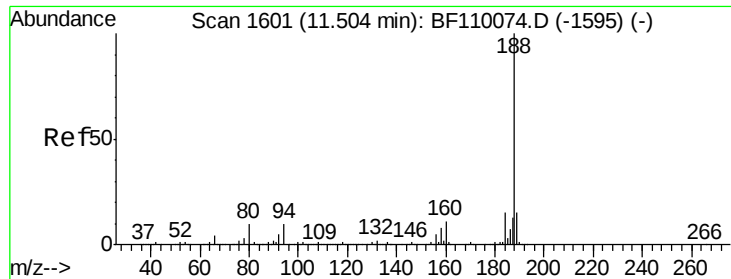
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

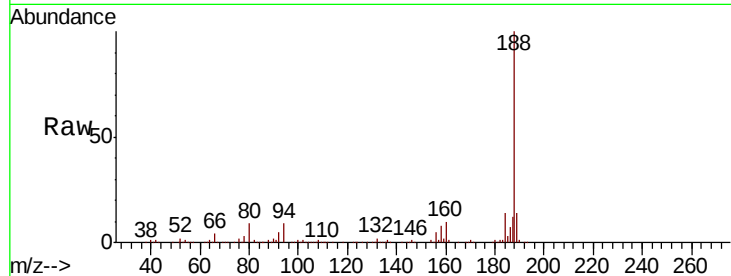




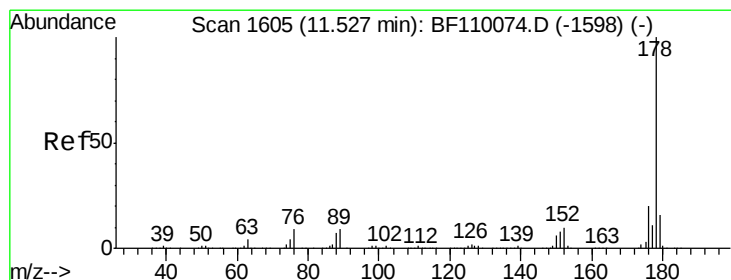
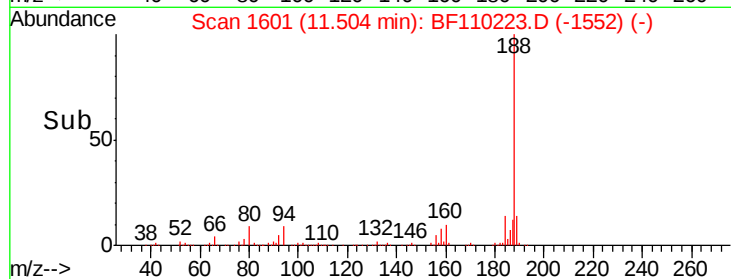
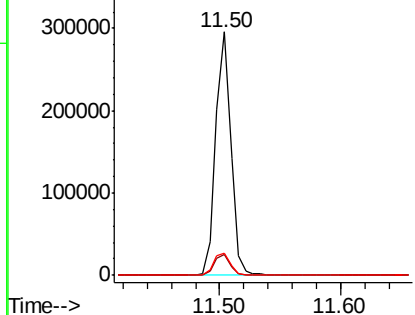
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 254194
Ion Ratio Lower Upper
188 100
94 8.7 7.2 10.8
80 9.0 7.9 11.9

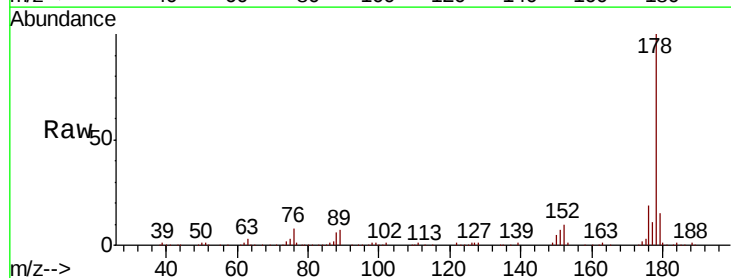


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

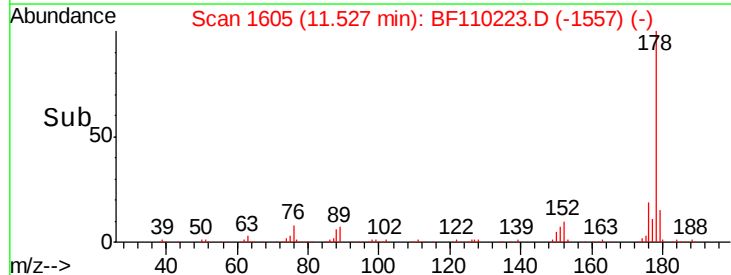
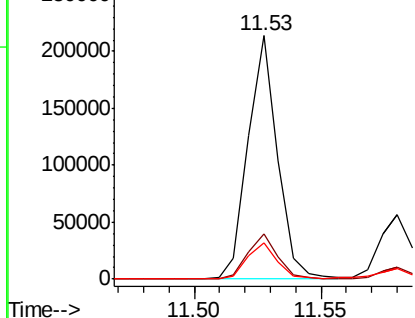


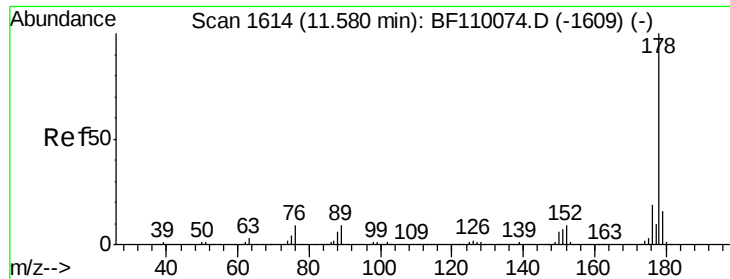
#71
Phenanthrene
Concen: 12.999 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.02 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion:178 Resp: 172897
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 15.0 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 4.095 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

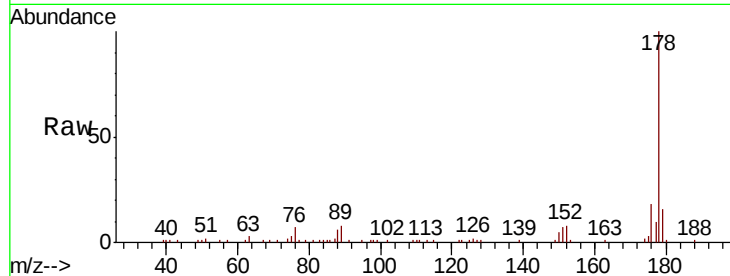
Instrument :

BNA_F

ClientSampled :

Tot Ion:178 Resp: 54596

Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.2
179	15.8	12.6	18.8

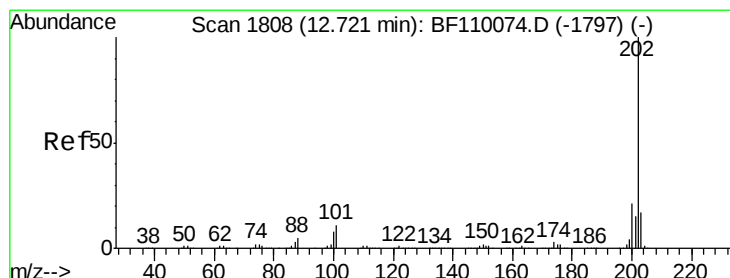
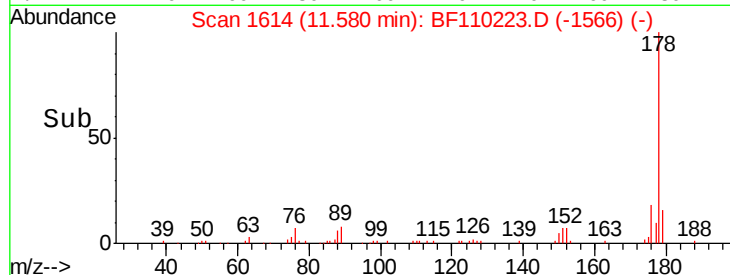
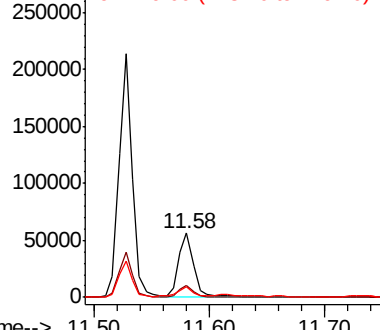


Abundance

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: 20.496 ng

RT: 12.72 min Scan# 1808

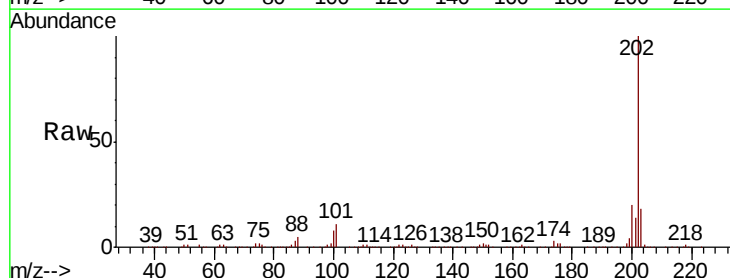
Delta R.T. -0.01 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Tgt Ion:202 Resp: 276673

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.4
203	17.8	0.0	37.7

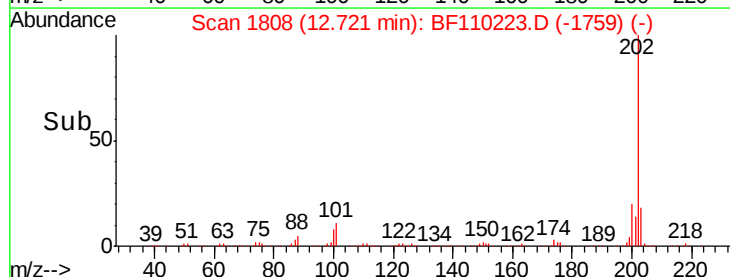
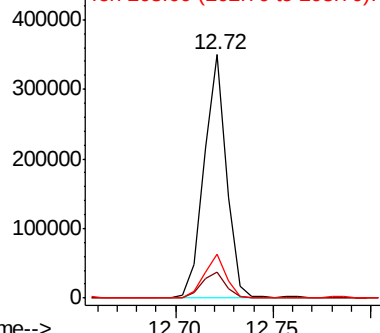


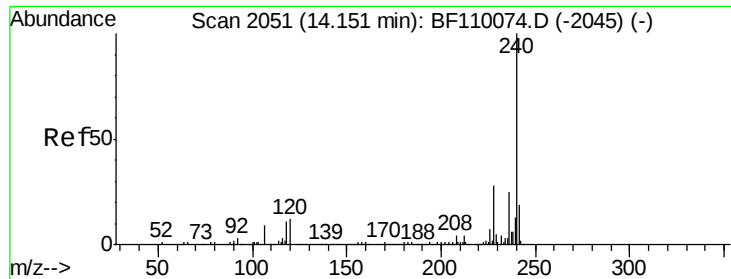
Abundance

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

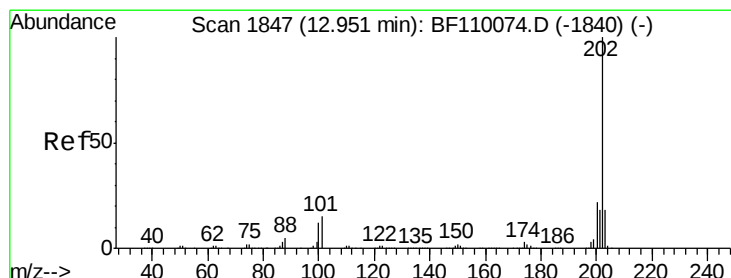
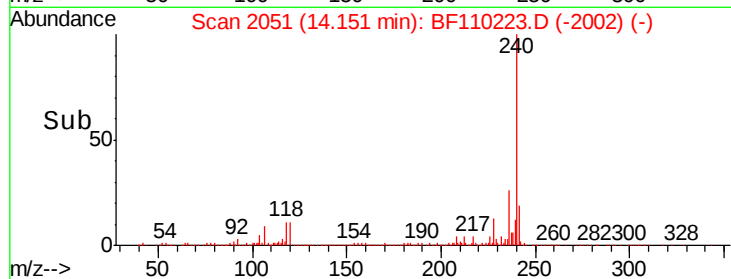
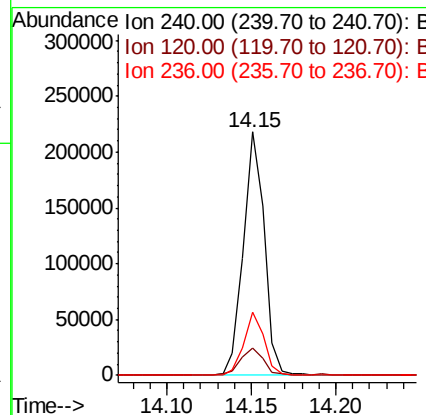
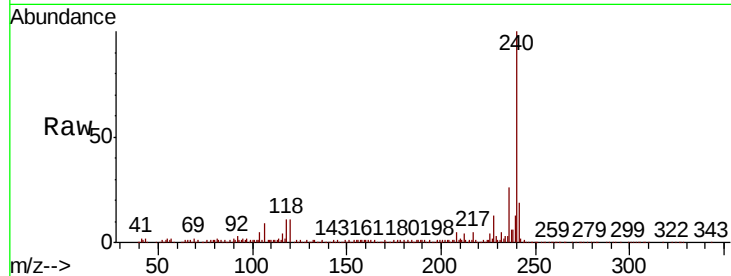




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.15 min Scan# 2051
Delta R.T. -0.01 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

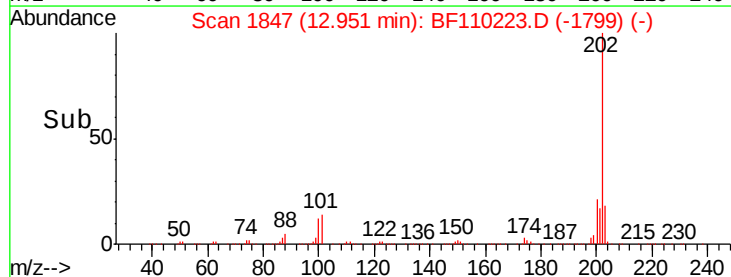
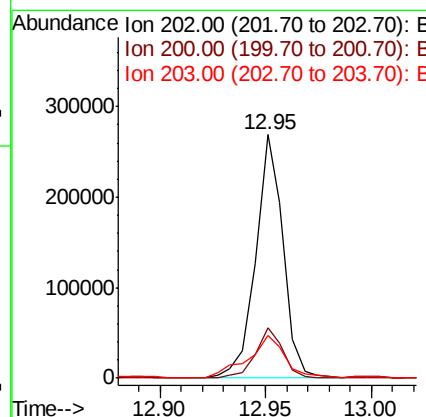
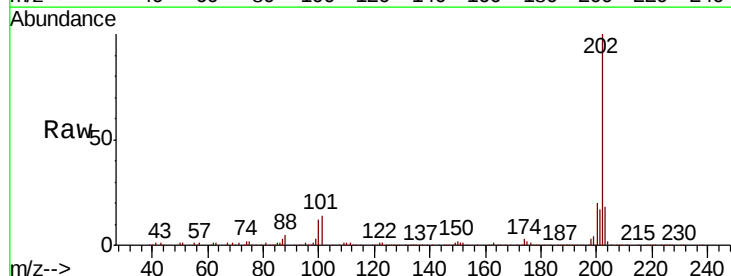
Instrument :
BNA_F
ClientSampleId :

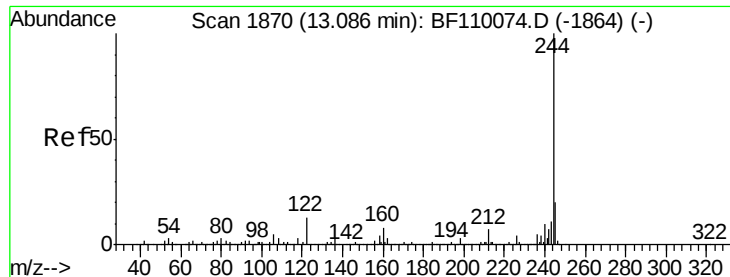
Tot Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.3	12.5
236	25.8	21.2	31.8



#78
Pyrene
Concen: 18.029 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.02 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.8	26.6
203	17.6	14.2	21.4

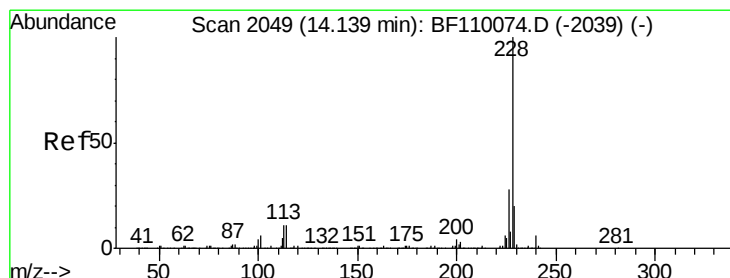
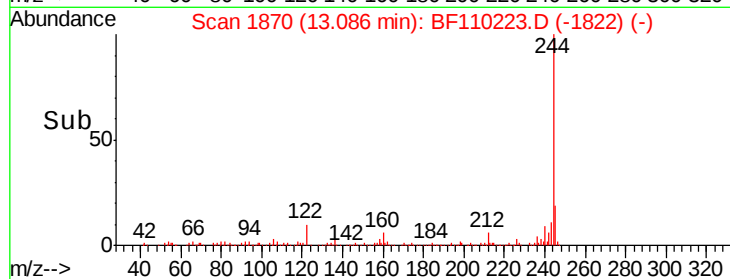
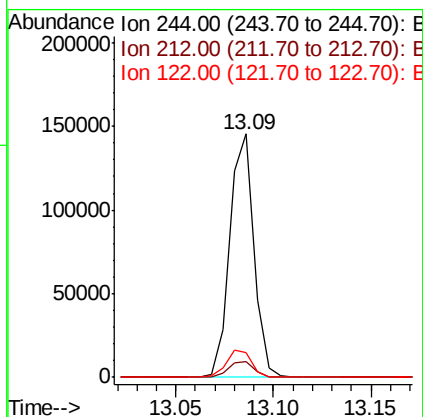
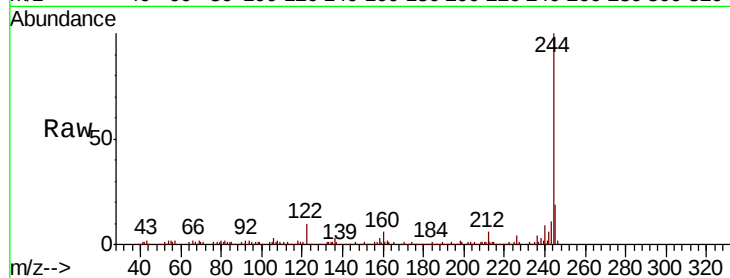




#79
 Terphenyl-d14
 Concen: 13.772 ng
 RT: 13.09 min Scan# 1870
 Delta R.T. -0.02 min
 Lab File: BF110223.D
 Acq: 26 Oct 2018 21:25

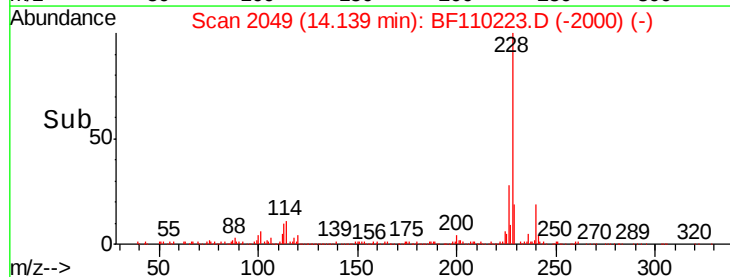
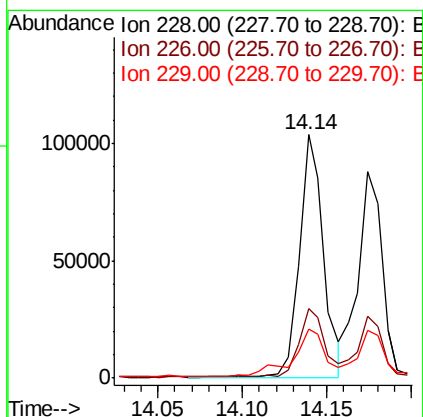
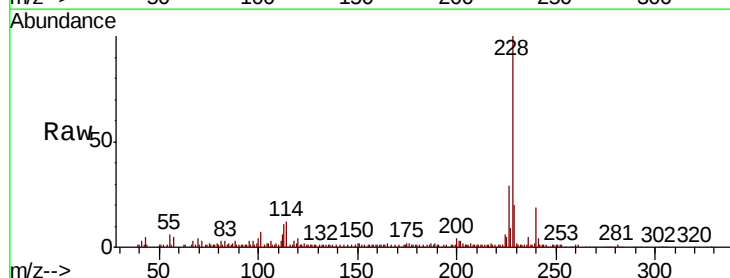
Instrument :
 BNA_F
 ClientSampleId :

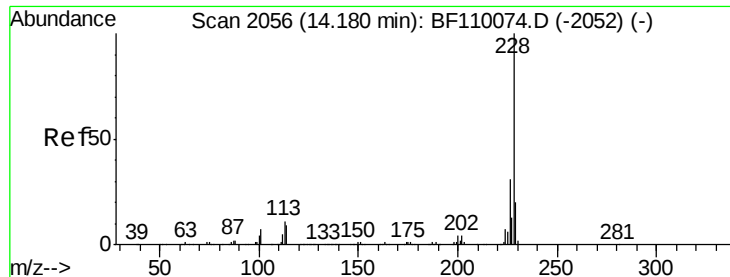
Tot Ion:244 Resp: 124810
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.8 8.8
 122 10.2 8.7 13.1



#81
 Benzo(a)anthracene
 Concen: 9.190 ng
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.01 min
 Lab File: BF110223.D
 Acq: 26 Oct 2018 21:25

Tgt Ion:228 Resp: 102714
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.1 33.1
 229 20.0 15.6 23.4





#83

Chrysene

Concen: 8.222 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Instrument :

BNA_F

ClientSampled :

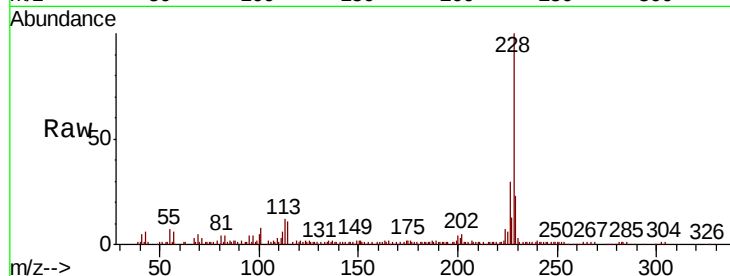
Tot Ion:228 Resp: 87280

Ion Ratio Lower Upper

228 100

226 30.0 24.7 37.1

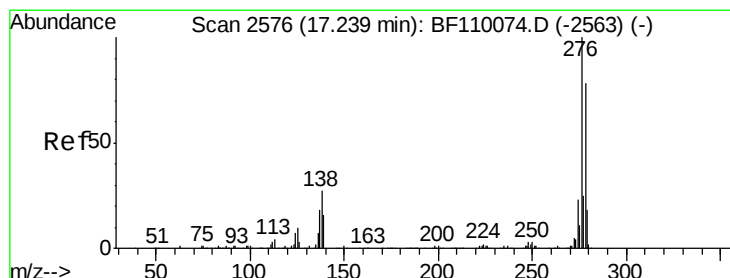
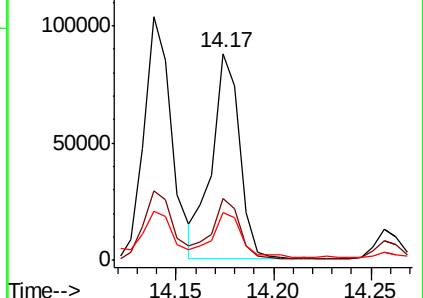
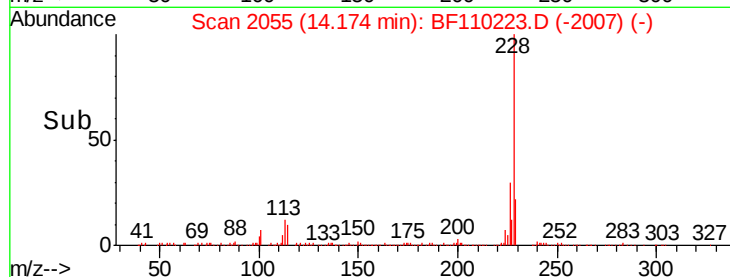
229 23.1 15.9 23.9



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: 3.697 ng

RT: 17.24 min Scan# 2577

Delta R.T. -0.02 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

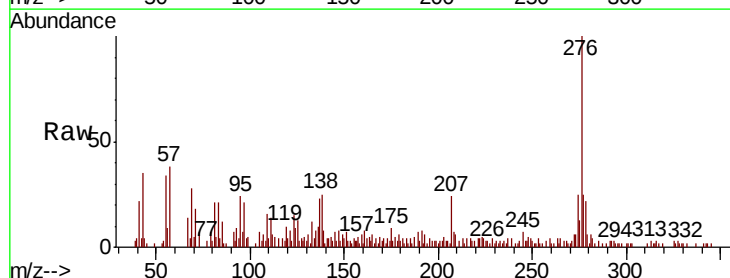
Tgt Ion:276 Resp: 32560

Ion Ratio Lower Upper

276 100

138 24.5 18.5 27.7

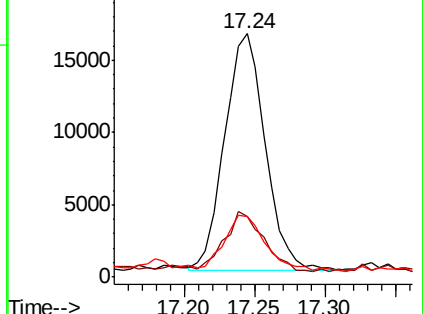
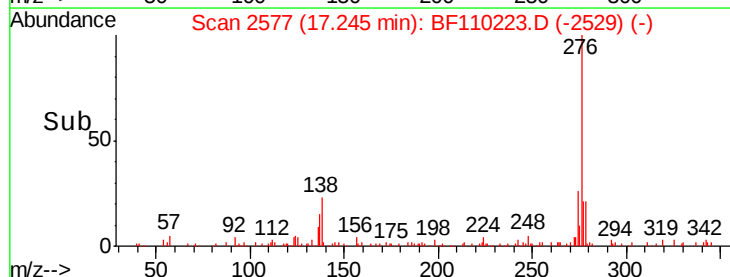
277 24.7 20.0 30.0

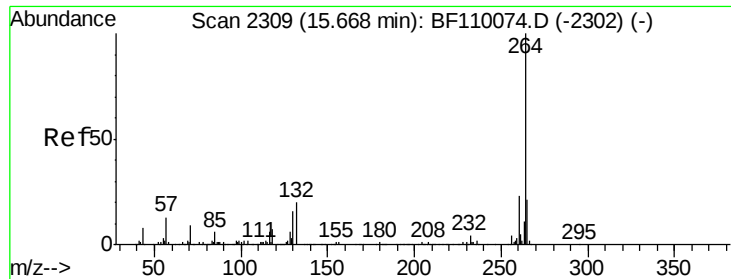


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

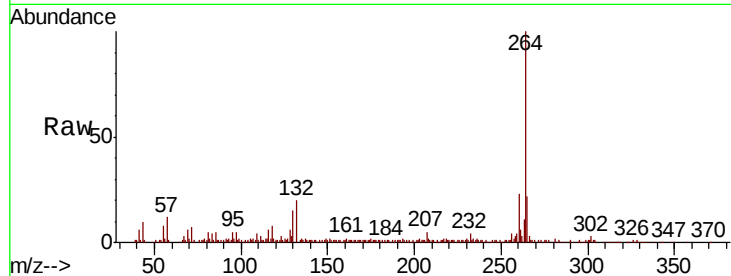




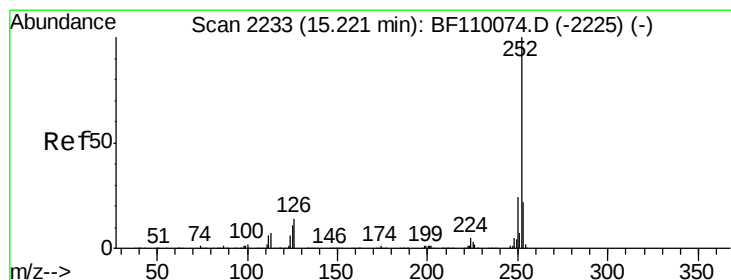
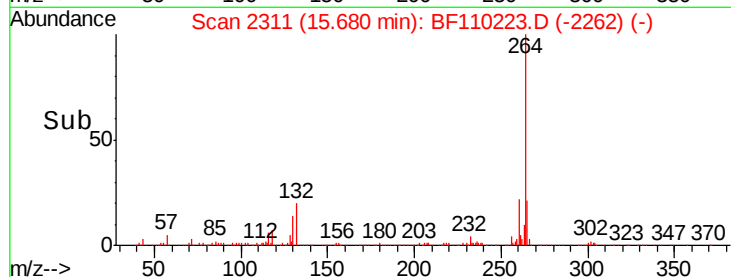
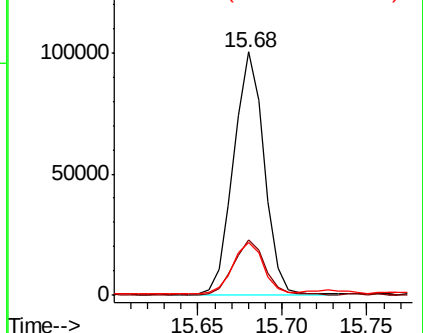
#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2311
 Delta R.T. -0.01 min
 Lab File: BF110223.D
 Acq: 26 Oct 2018 21:25

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:264 Resp: 127919
 Ion Ratio Lower Upper
 264 100
 260 22.8 18.7 28.1
 265 21.7 16.7 25.1

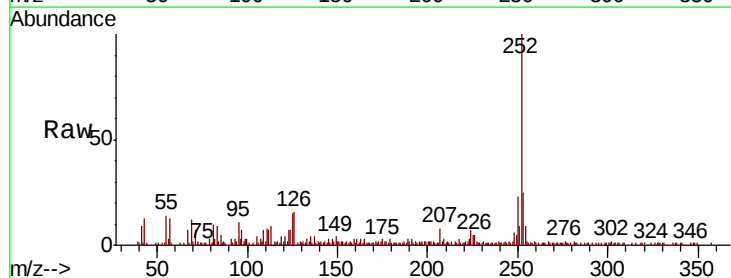


Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

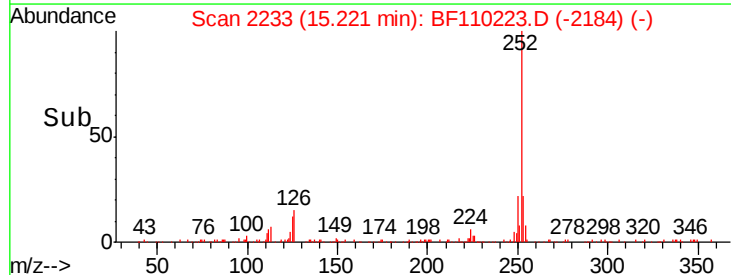
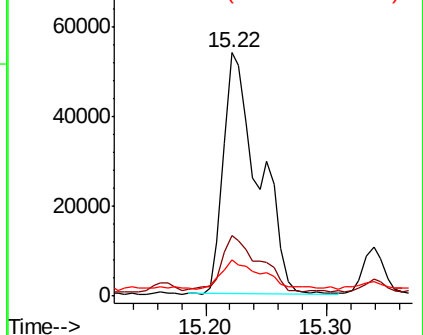


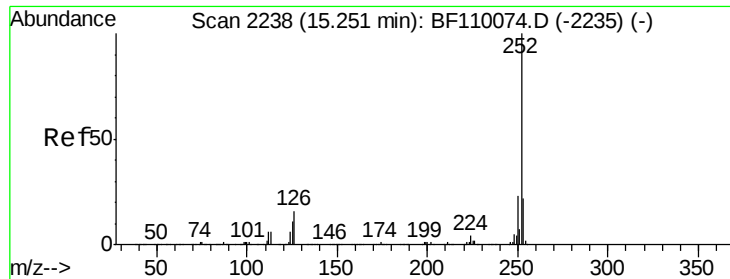
#88
 Benzo(b)fluoranthene
 Concen: 14.707 ng
 RT: 15.22 min Scan# 2233
 Delta R.T. -0.01 min
 Lab File: BF110223.D
 Acq: 26 Oct 2018 21:25

Tgt Ion:252 Resp: 108640
 Ion Ratio Lower Upper
 252 100
 253 24.8 17.2 25.8
 125 14.9 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

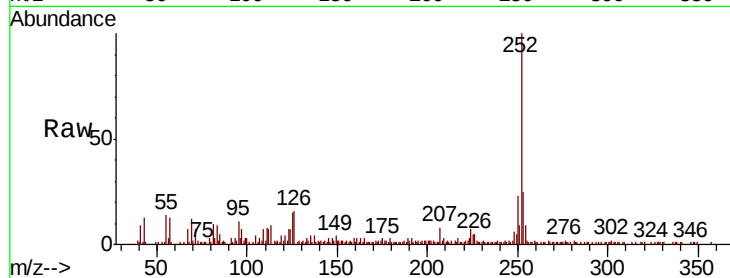




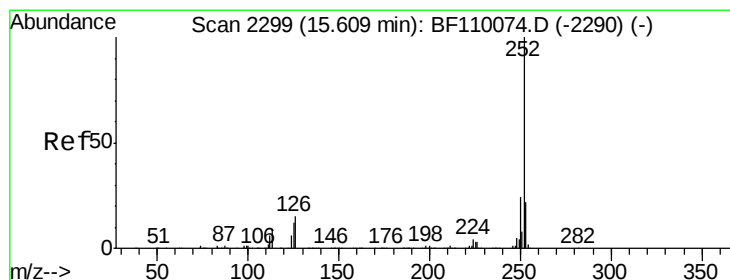
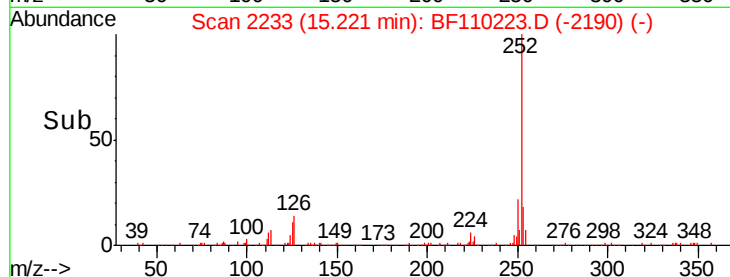
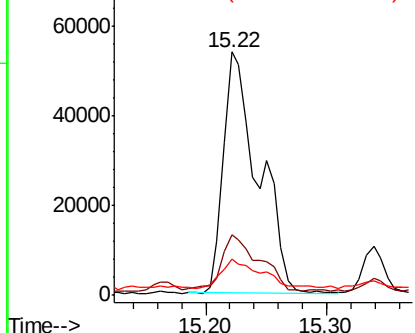
#89
Benzo(k)fluoranthene
Concen: 14.960 ng
RT: 15.22 min Scan# 2233
Delta R.T. -0.05 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.2	25.8
125	14.9	7.4	11.0

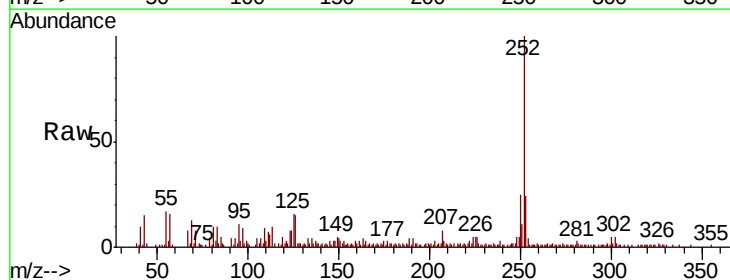


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

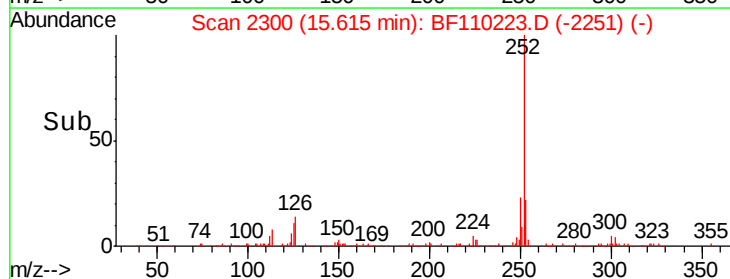
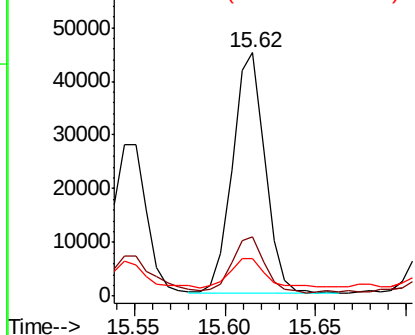


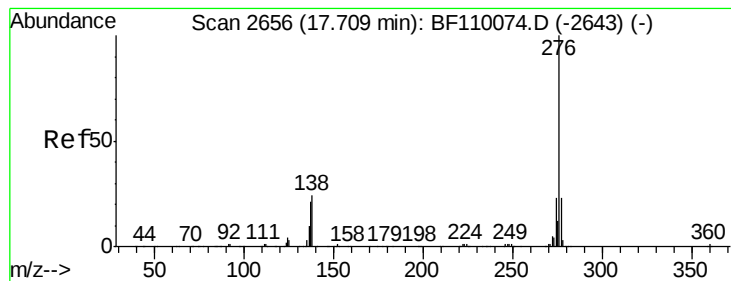
#90
Benzo(a)pyrene
Concen: 8.232 ng
RT: 15.62 min Scan# 2300
Delta R.T. -0.01 min
Lab File: BF110223.D
Acq: 26 Oct 2018 21:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.2	27.4
125	15.6	9.0	13.6



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(a,h,i)perylene

Concen: 5.931 ng

RT: 17.73 min Scan# 2659

Delta R.T. -0.01 min

Lab File: BF110223.D

Acq: 26 Oct 2018 21:25

Instrument :

BNA_F

ClientSampleId :

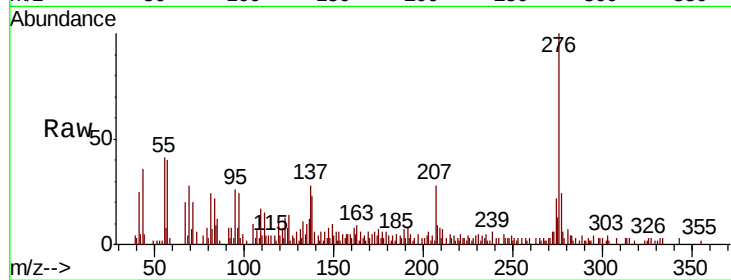
Tot Ion: 276 Resp: 34280

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 22.7 16.0 24.0



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

