

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
 Data File : BF110812.D
 Acq On : 16 Nov 2018 12:45
 Operator : JU/SJ
 Sample : J5767-09DL 4X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 16 13:56:31 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	70940	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	300414	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	145173	20.00	ng	-0.01
64) Phenanthrene-d10	11.48	188	252657	20.00	ng	0.00
76) Chrysene-d12	14.13	240	163844	20.00	ng	0.00
87) Perylene-d12	15.66	264	170681	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.55	112	105048	24.05	ng	-0.01
7) Phenol-d6	6.56	99	134369	24.06	ng	-0.01
23) Nitrobenzene-d5	7.50	82	83887	16.08	ng	-0.01
42) 2,4,6-Tribromophenol	10.77	330	26314	17.99	ng	-0.01
45) 2-Fluorobiphenyl	9.29	172	166291	16.36	ng	-0.01
79) Terphenyl-d14	13.06	244	127509	14.57	ng	-0.01

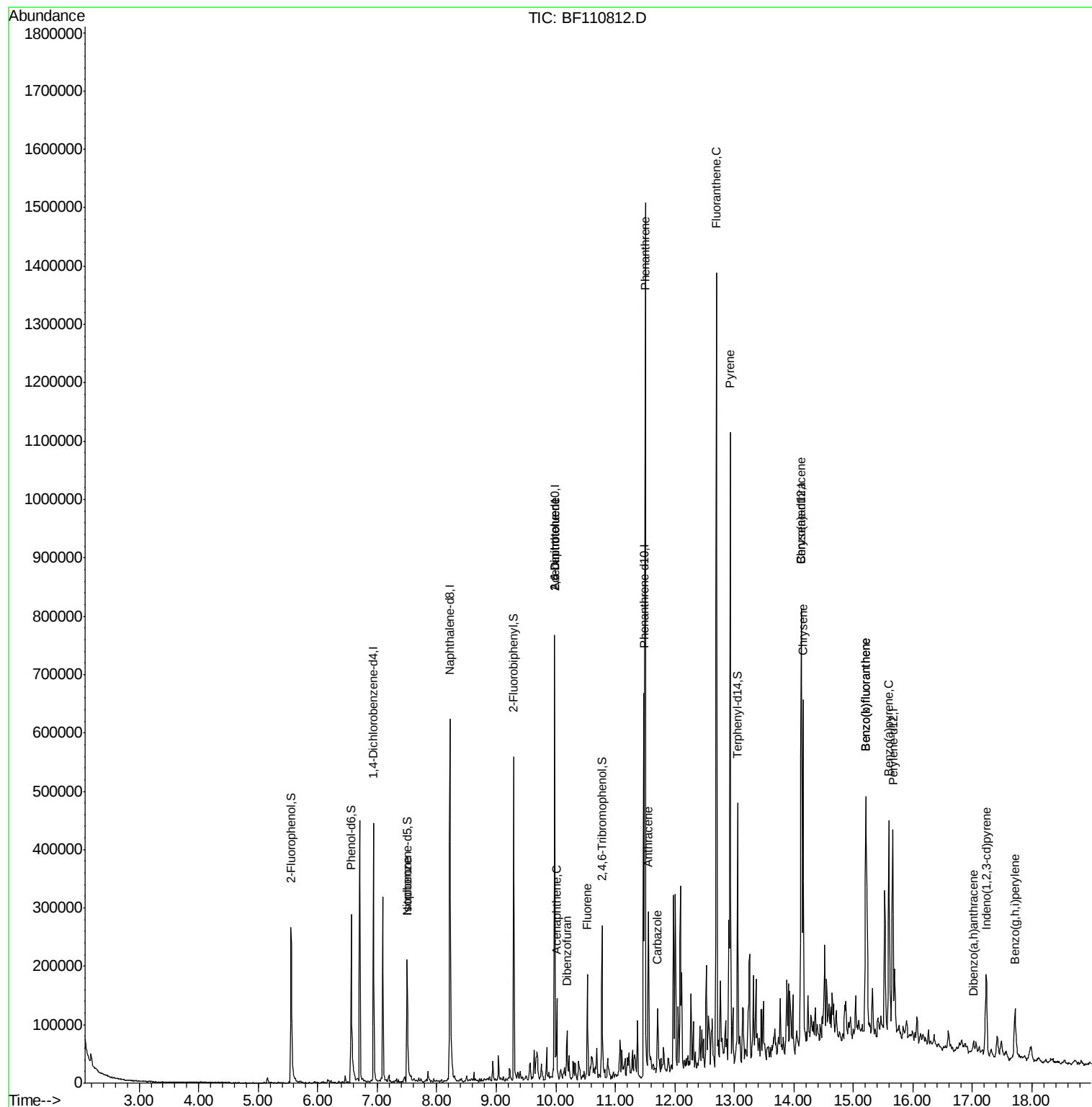
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.70	77	2725	Below Cal		# 73
25) Isophorone	7.50	82	83886	9.811	ng	# 67
51) 2,6-Dinitrotoluene	9.98	165	20239	8.493	ng	# 23
52) Acenaphthene	10.02	154	27395	3.085	ng	98
55) Dibenzofuran	10.19	168	32831	2.527	ng	99
57) 2,4-Dinitrotoluene	9.98	165	20240	6.533	ng	# 19
58) Fluorene	10.53	166	51567	5.168	ng	97
71) Phenanthrene	11.50	178	531535	39.268	ng	99
72) Anthracene	11.56	178	125056	9.159	ng	98
73) Carbazole	11.71	167	39012	2.975	ng	97
75) Fluoranthene	12.70	202	516292	38.044	ng	99
78) Pvrene	12.93	202	460412	36.495	ng	98
81) Benzo(a)anthracene	14.12	228	217746	22.235	ng	97
83) Chrysene	14.16	228	209196	22.422	ng	97
86) Indeno(1,2,3-cd)pyrene	17.23	276	79262	11.839	ng	99
88) Benzo(b)fluoranthene	15.20	252	308958	30.258	ng	99
89) Benzo(k)fluoranthene	15.20	252	308958	30.622	ng	# 98
90) Benzo(a)pyrene	15.60	252	174686	18.830	ng	99
91) Dibenzo(a,h)anthracene	17.02	278	17115	2.180	ng	97
92) Benzo(a,h,i)perylene	17.72	276	71384	9.164	ng	94

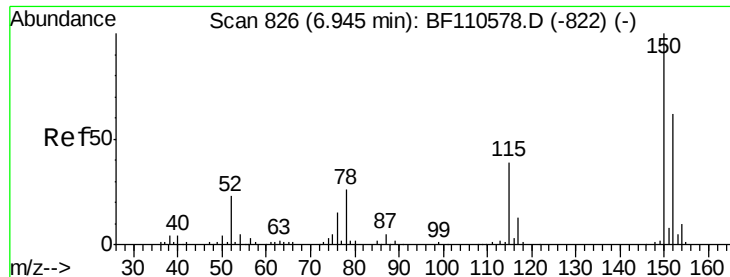
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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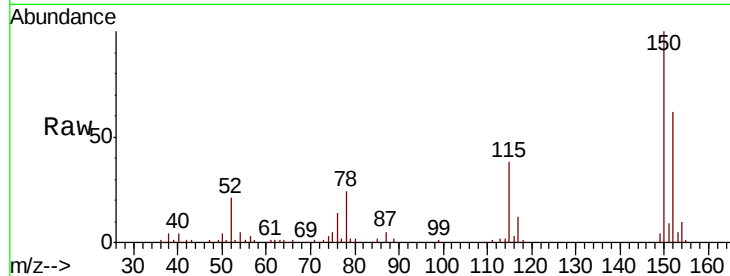


#1

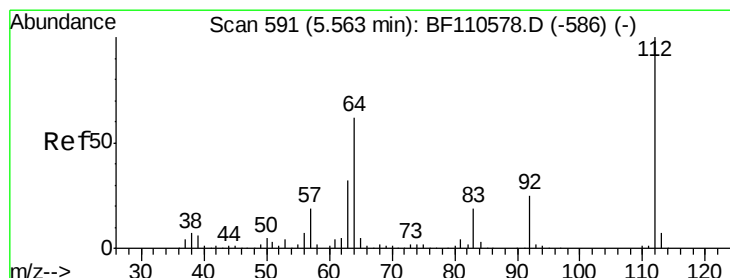
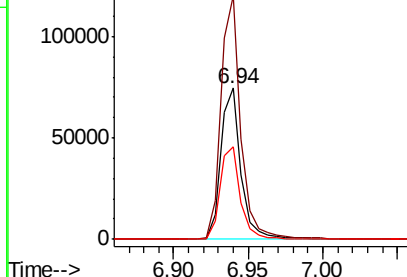
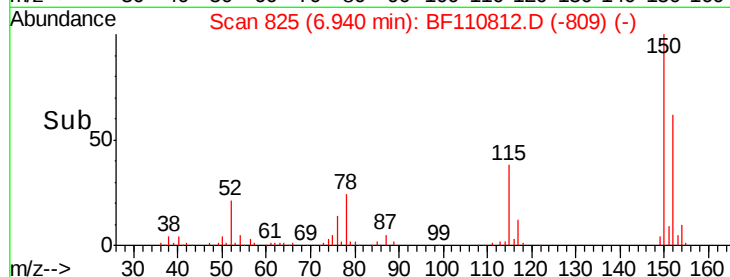
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 70940
Ion Ratio Lower Upper
152 100
150 161.4 122.7 184.1
115 61.7 49.1 73.7



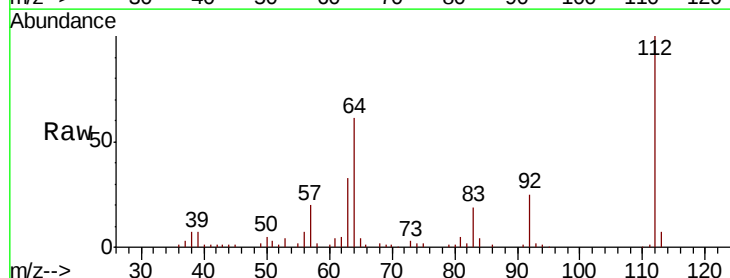
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



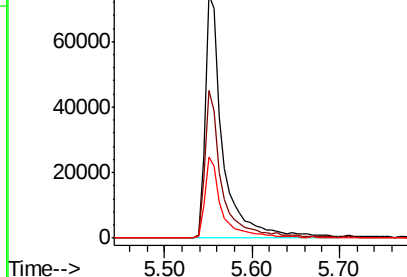
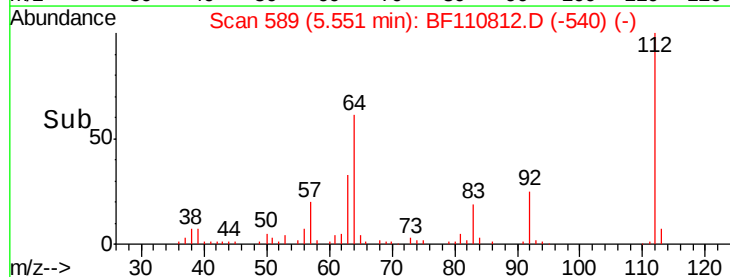
#5

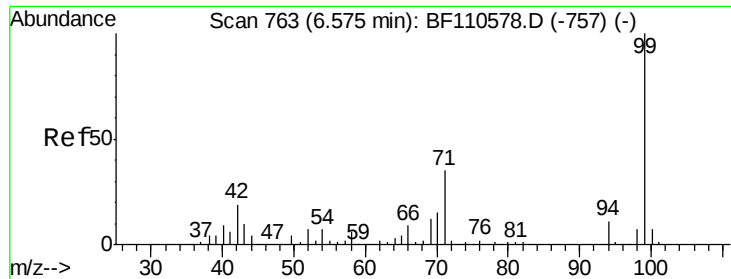
2-Fluorophenol
Concen: 24.053 ng
RT: 5.55 min Scan# 589
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion:112 Resp: 105048
Ion Ratio Lower Upper
112 100
64 60.6 44.1 66.1
63 33.5 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: 24.060 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

Instrument :

BNA_F

ClientSampled :

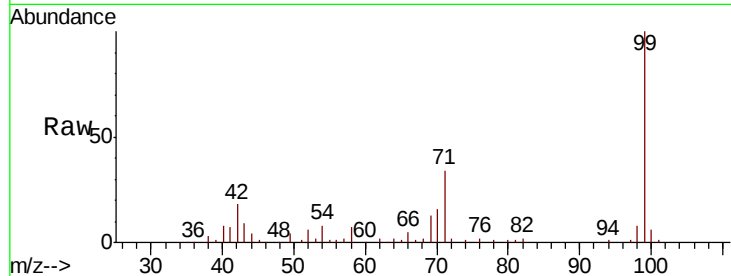
Tot Ion: 99 Resp: 134369

Ion Ratio Lower Upper

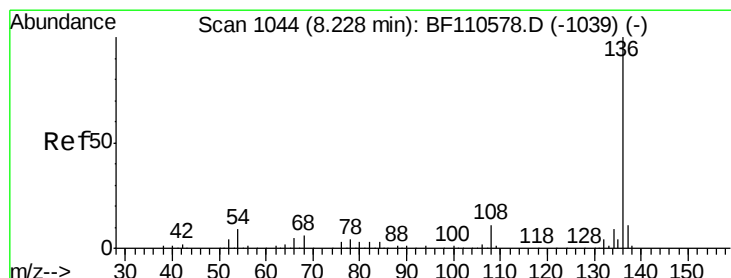
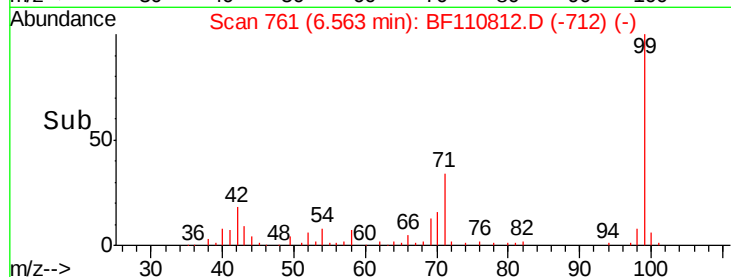
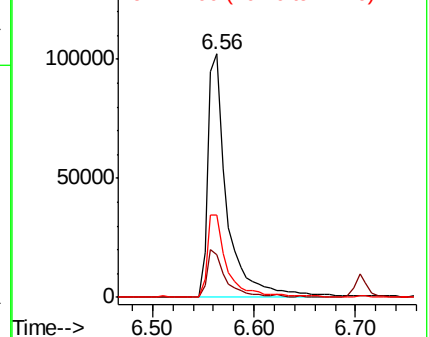
99 100

42 17.7 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

Tgt Ion: 136 Resp: 300414

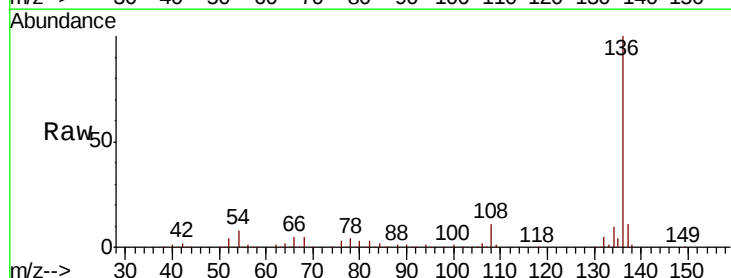
Ion Ratio Lower Upper

136 100

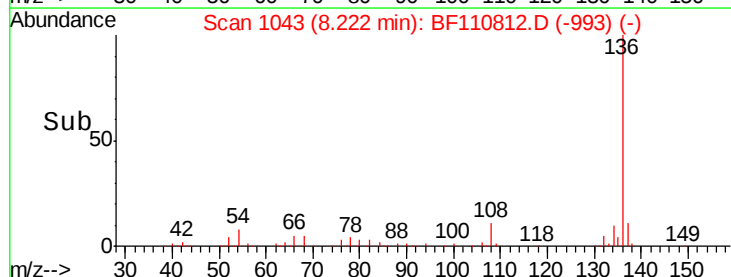
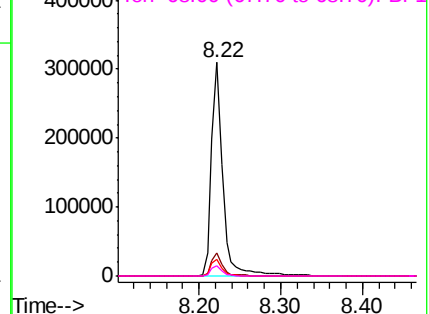
137 10.7 8.8 13.2

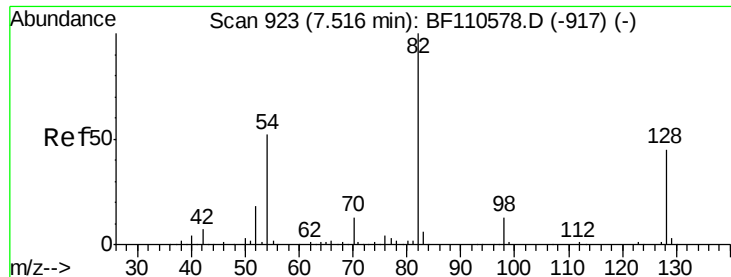
54 7.7 5.4 8.2

68 4.8 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

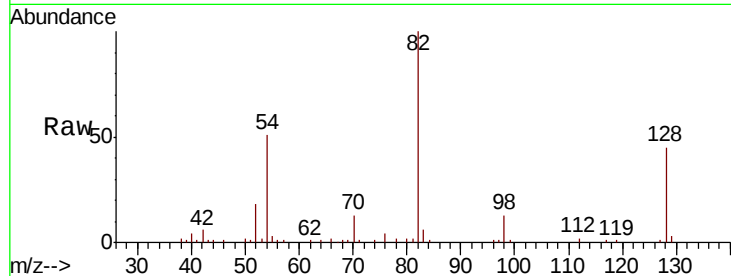




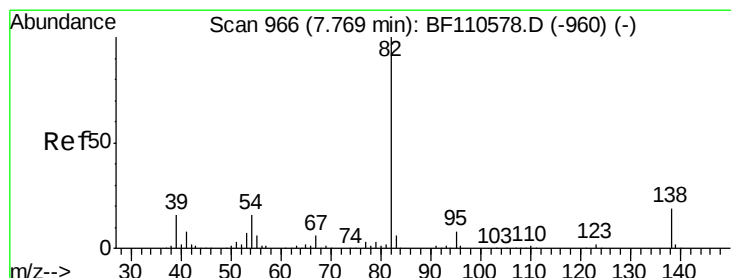
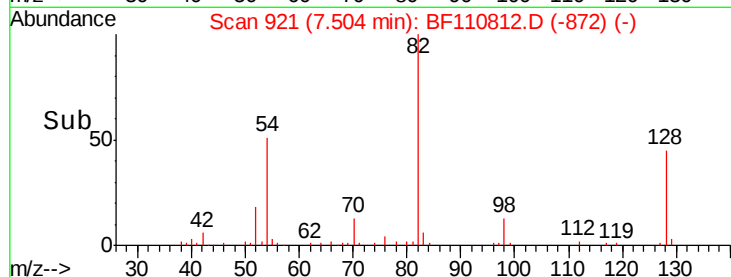
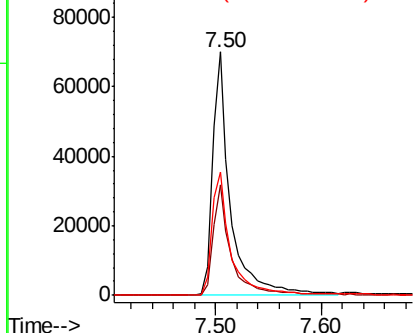
#23
 Nitrobenzene-d5
 Concen: 16.081 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	83887
Ion Ratio	Lower	Upper	
82	100		
128	45.4	34.2	51.2
54	50.6	38.6	58.0

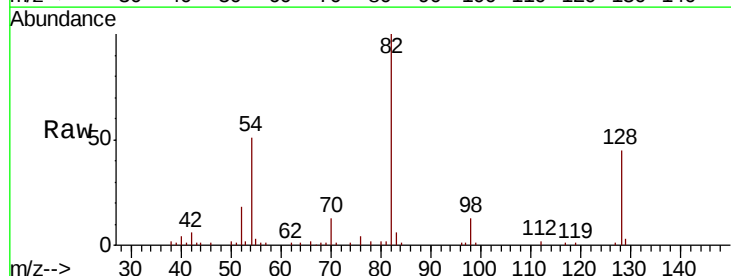


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

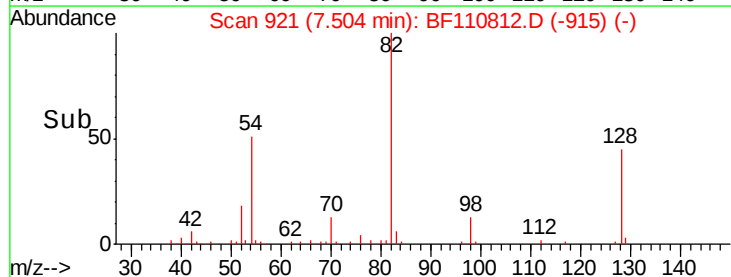
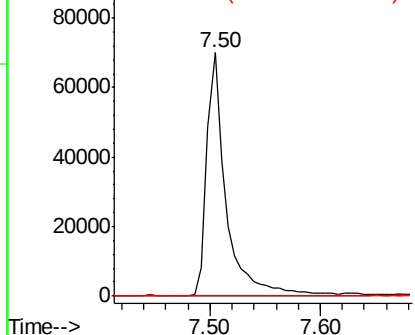


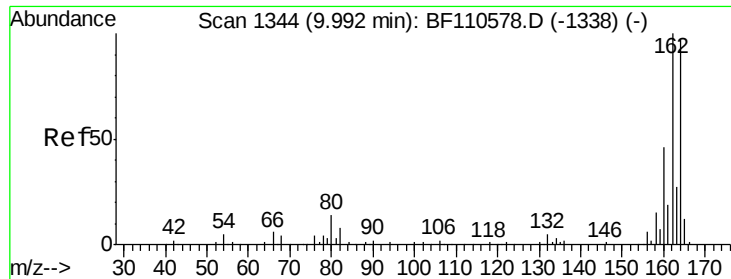
#25
 Isophorone
 Concen: 9.811 ng
 RT: 7.50 min Scan# 921
 Delta R.T. -0.26 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Tgt Ion	82	Resp	83886
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

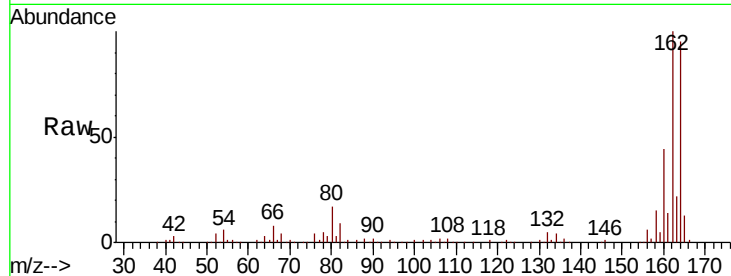




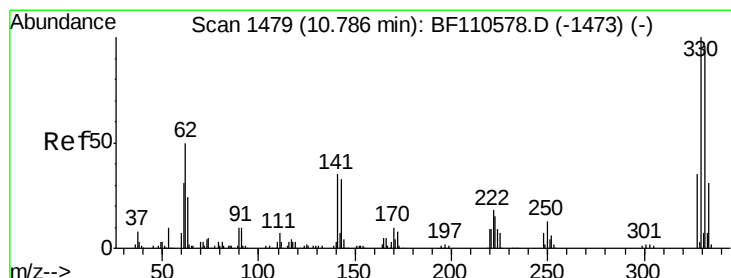
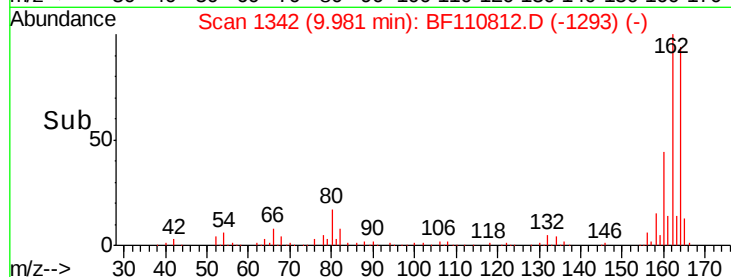
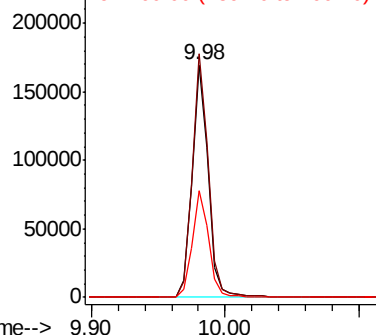
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 145173
Ion Ratio Lower Upper
164 100
162 104.9 83.0 124.6
160 45.8 37.0 55.6

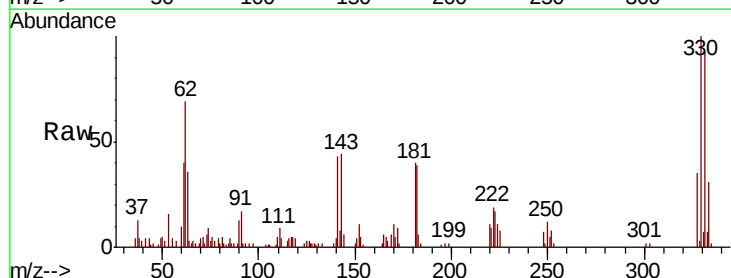


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

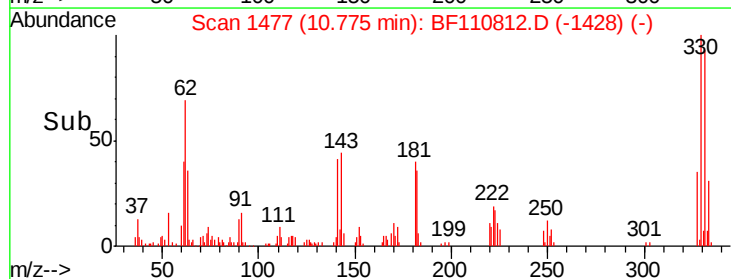
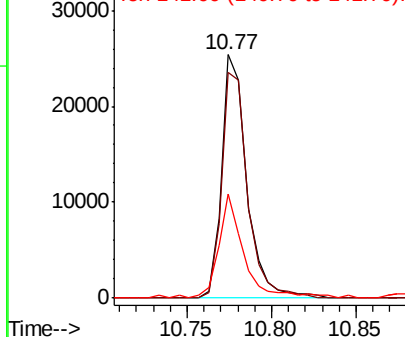


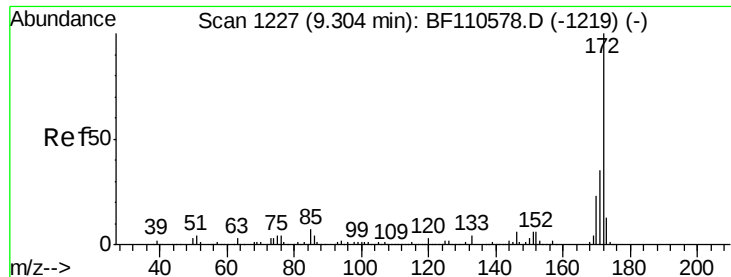
#42
2,4,6-Tribromophenol
Concen: 17.989 ng
RT: 10.77 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion:330 Resp: 26314
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 43.7 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

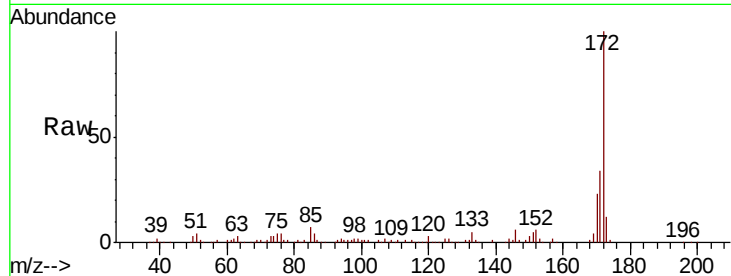




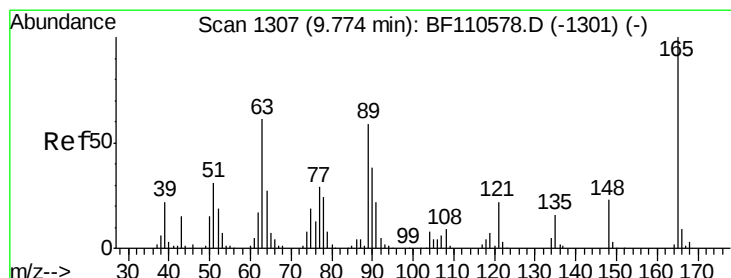
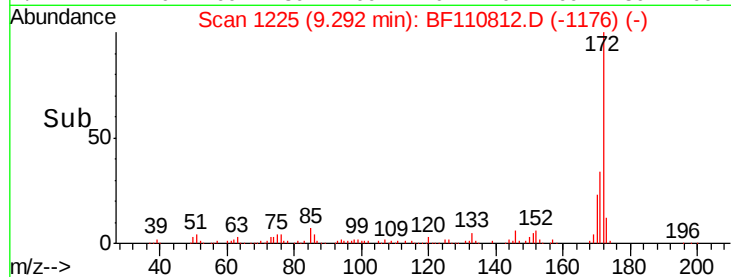
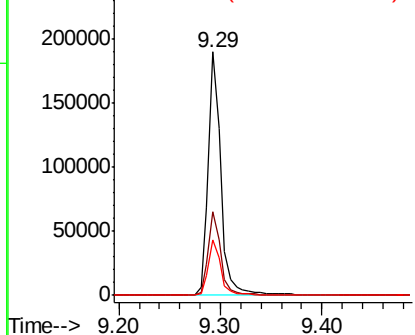
#45
 2-Fluorobiphenyl
 Concen: 16.359 ng
 RT: 9.29 min Scan# 1225
 Delta R.T. -0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion:172 Resp: 166291
 Ion Ratio Lower Upper
 172 100
 171 34.3 28.6 43.0
 170 22.9 19.7 29.5

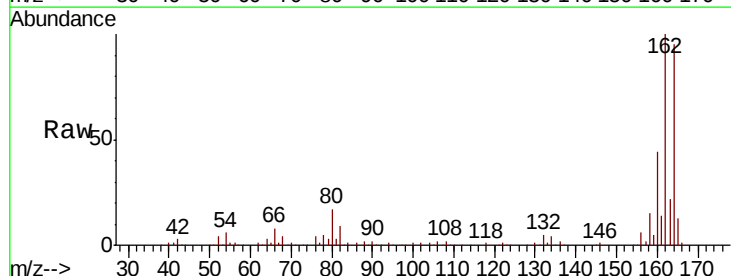


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

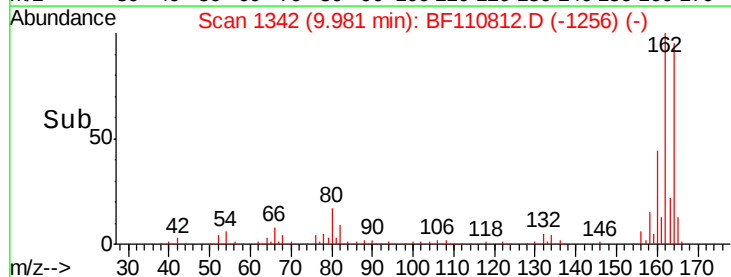
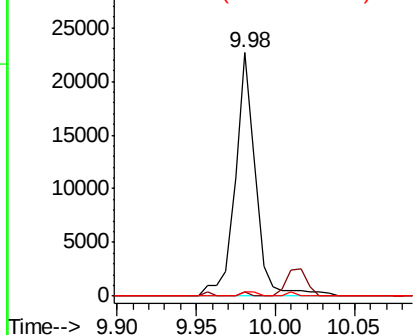


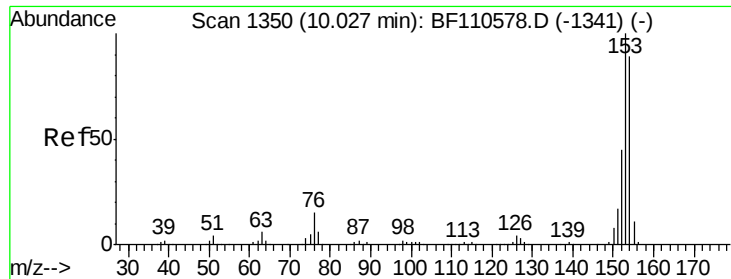
#51
 2,6-Dinitrotoluene
 Concen: 8.493 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. 0.21 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Tgt Ion:165 Resp: 20239
 Ion Ratio Lower Upper
 165 100
 63 1.9 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: 3.085 ng

RT: 10.02 min Scan# 1348

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

Instrument :

BNA_F

ClientSampleId :

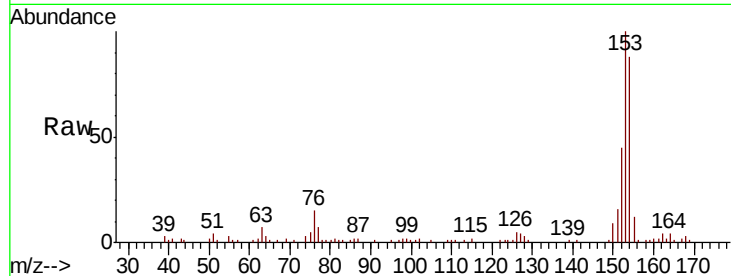
Tot Ion:154 Resp: 27395

Ion Ratio Lower Upper

154 100

153 113.9 90.1 135.1

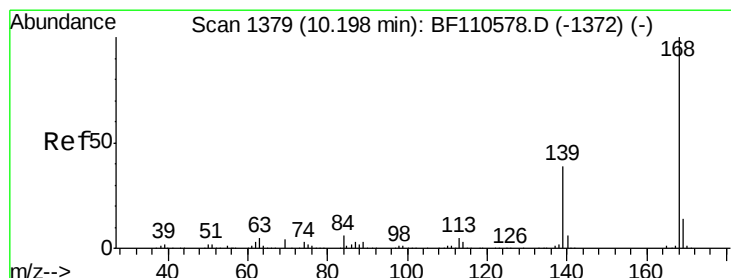
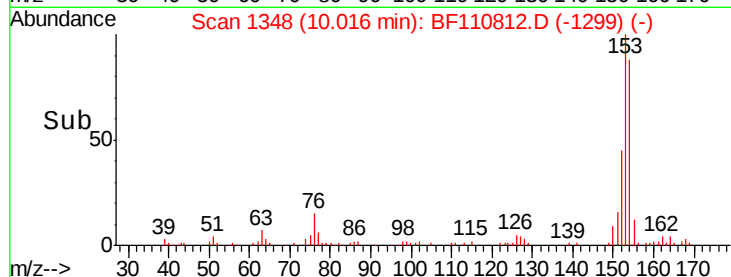
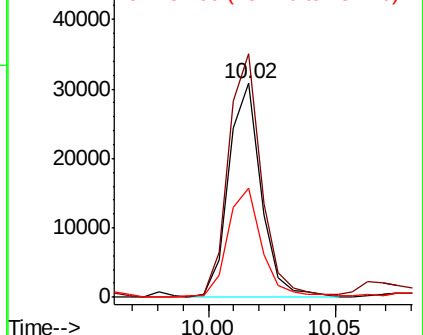
152 51.3 43.4 65.2



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



#55

Dibenzofuran

Concen: 2.527 ng

RT: 10.19 min Scan# 1378

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

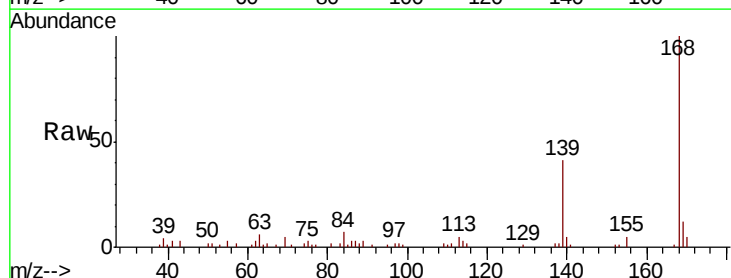
Tgt Ion:168 Resp: 32831

Ion Ratio Lower Upper

168 100

139 41.0 33.0 49.6

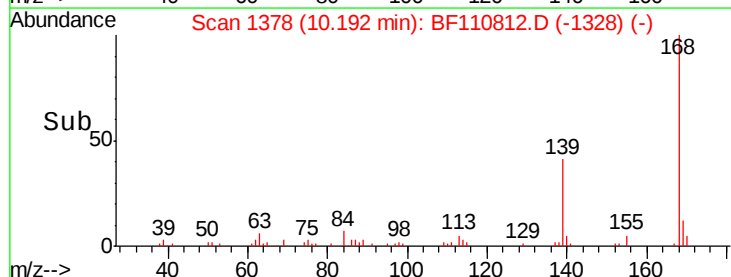
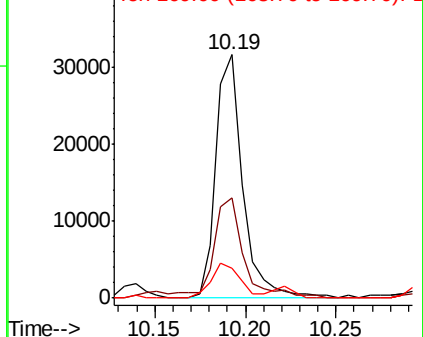
169 12.3 11.3 16.9

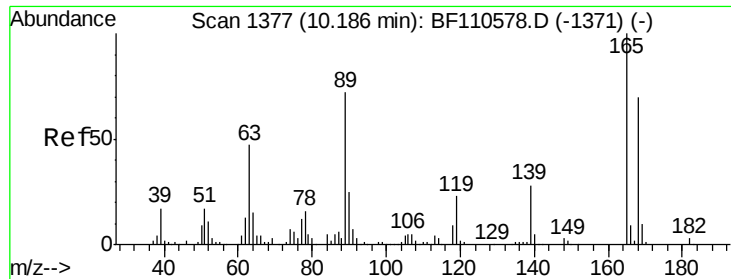


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

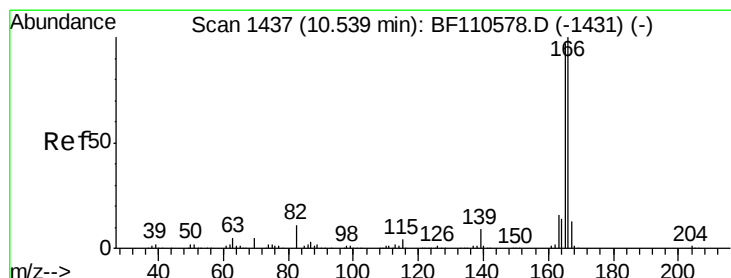
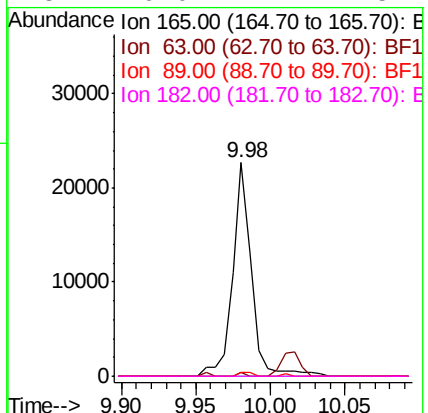
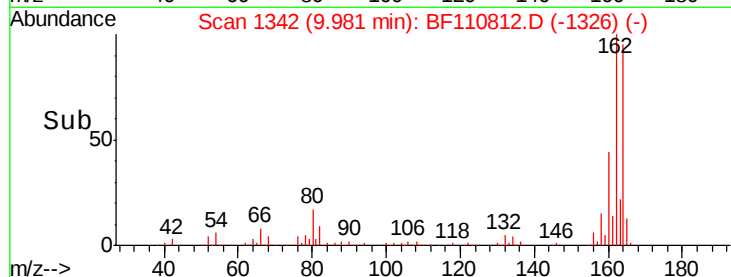
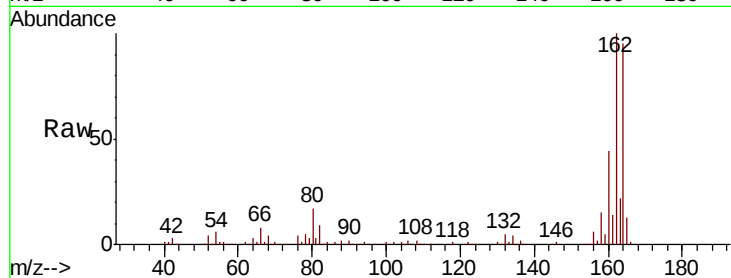




#57
2,4-Dinitrotoluene
Concen: 6.533 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.21 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

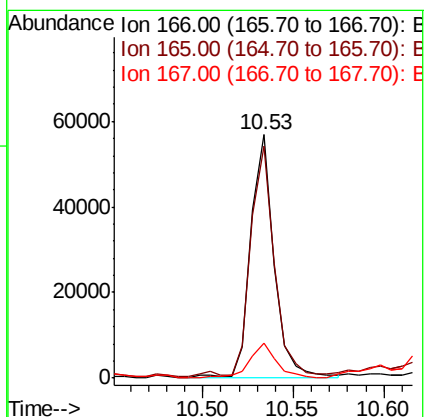
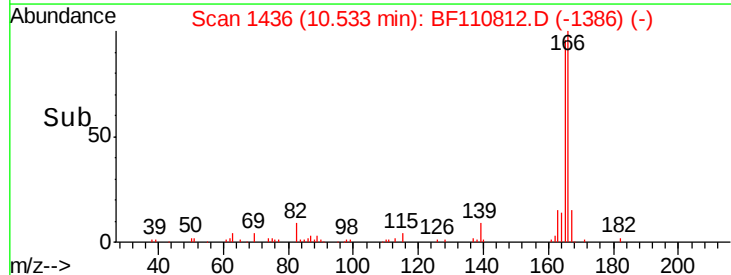
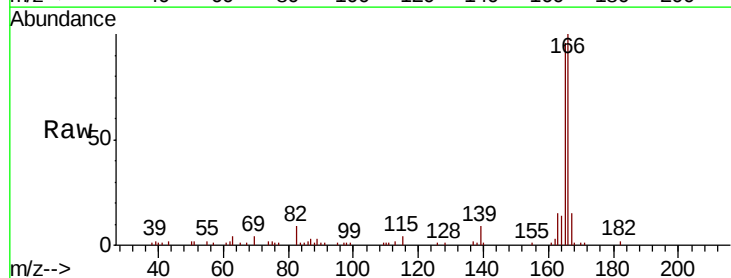
Instrument :
BNA_F
ClientSampleId :

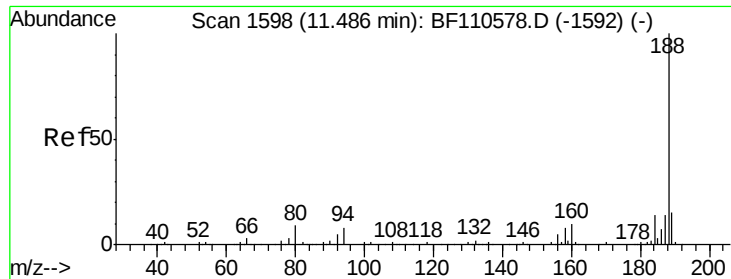
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	44.8	67.2#
89	1.7	62.2	93.4#
182	0.0	2.1	3.1#



#58
Fluorene
Concen: 5.168 ng
RT: 10.53 min Scan# 1436
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.5	78.6	117.8
167	14.5	10.8	16.2

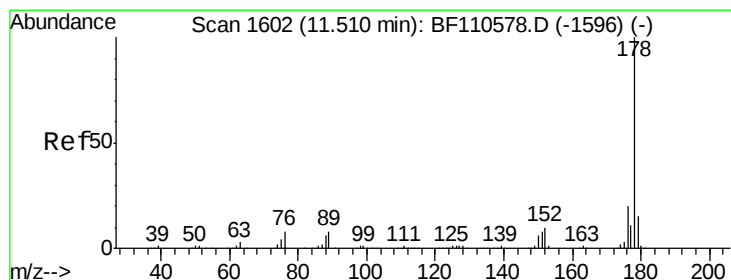
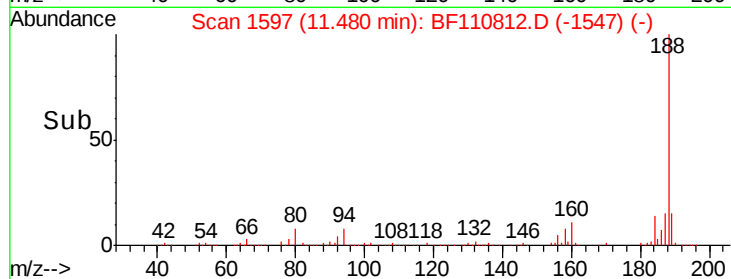
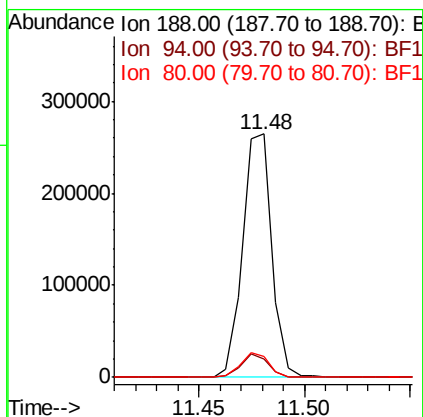
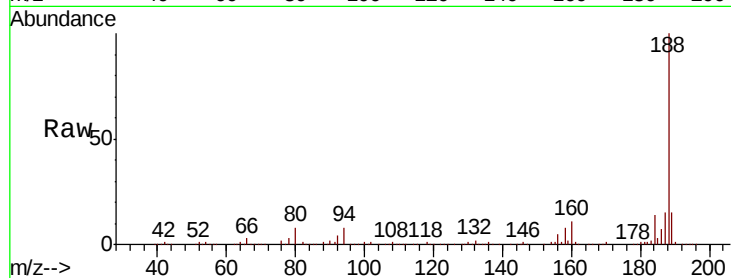




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

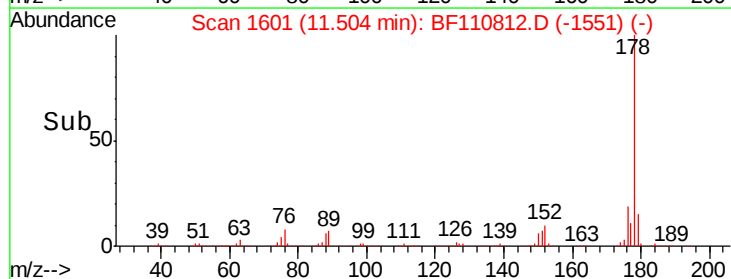
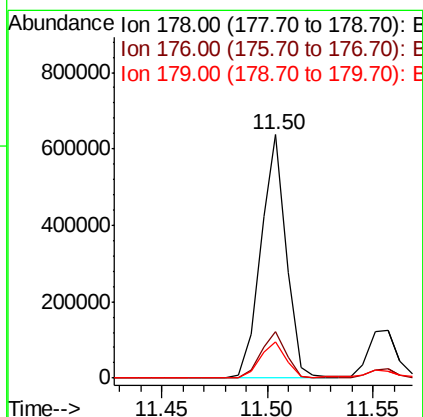
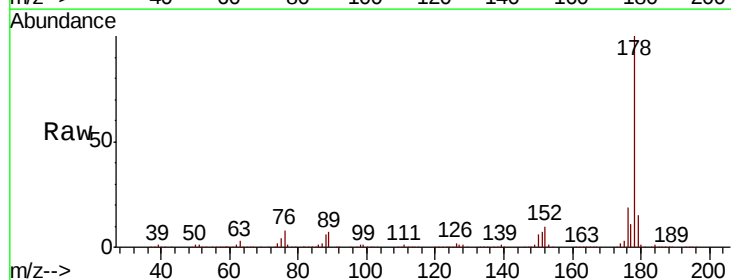
Instrument :
BNA_F
ClientSampleId :

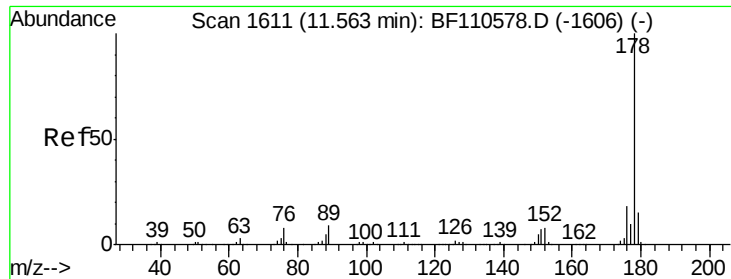
Tot Ion:188 Resp: 252657
Ion Ratio Lower Upper
188 100
94 7.6 7.2 10.8
80 8.5 7.9 11.9



#71
Phenanthrene
Concen: 39.268 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion:178 Resp: 531535
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.1 12.5 18.7

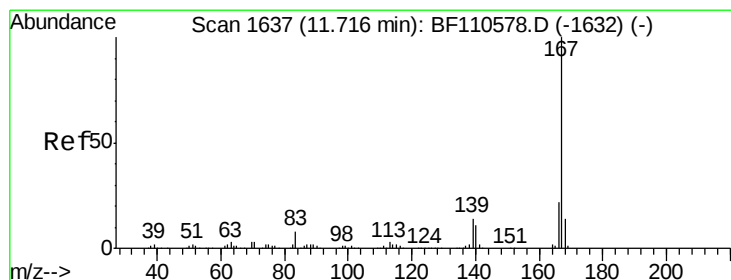
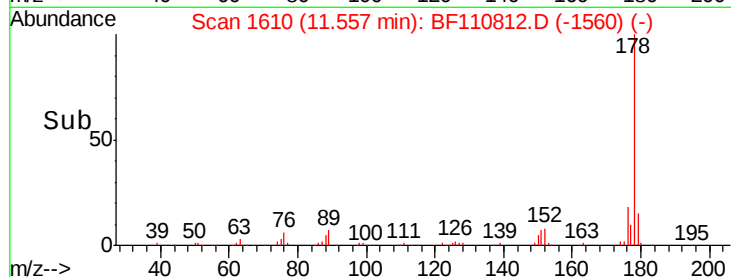
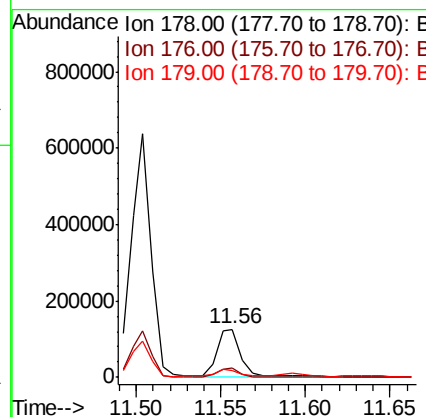
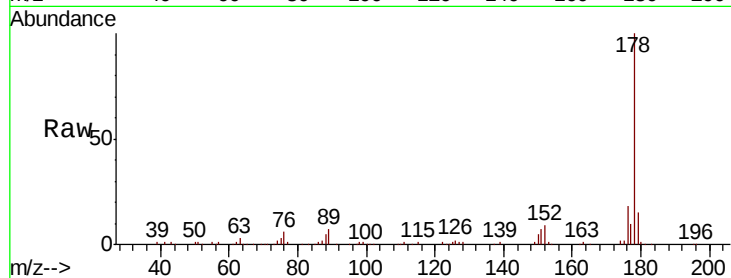




#72
 Anthracene
 Concen: 9.159 ng
 RT: 11.56 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

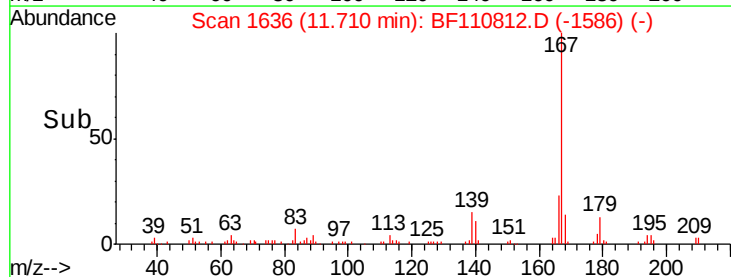
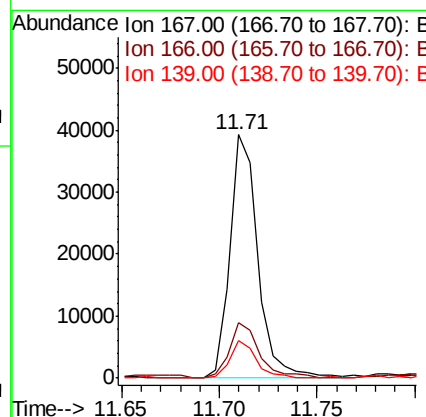
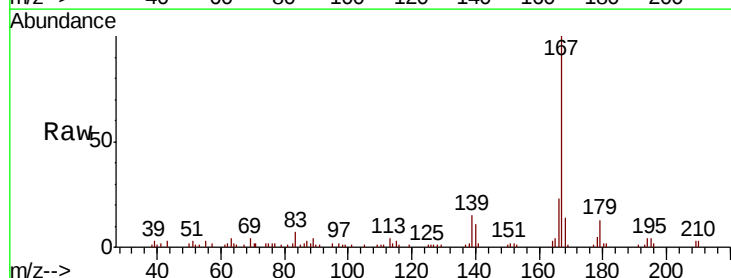
Instrument :
 BNA_F
 ClientSampleId :

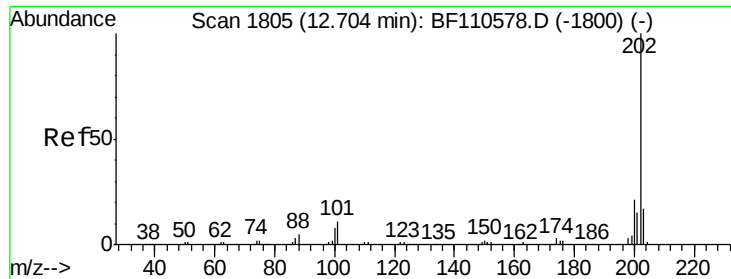
Tot Ion:178 Resp: 125056
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.4 23.2
 179 15.1 12.6 18.8



#73
 Carbazole
 Concen: 2.975 ng
 RT: 11.71 min Scan# 1636
 Delta R.T. -0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Tgt Ion:167 Resp: 39012
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.4 26.0
 139 15.4 10.9 16.3





#75

Fluoranthene

Concen: 38.044 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

Instrument :

BNA_F

ClientSampleId :

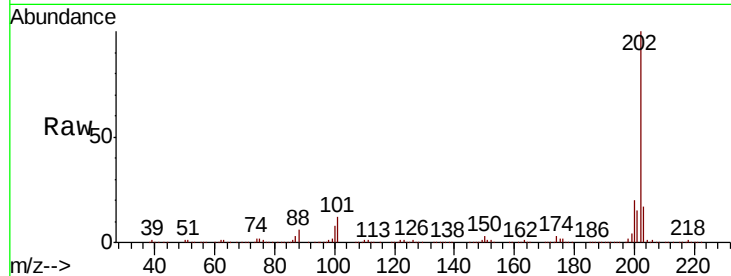
Tot Ion:202 Resp: 516292

Ion Ratio Lower Upper

202 100

101 11.5 0.0 31.4

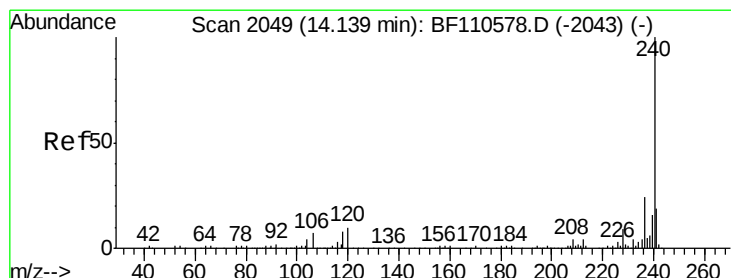
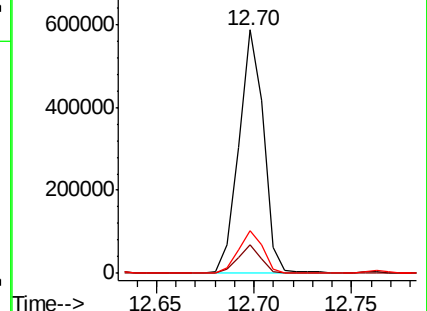
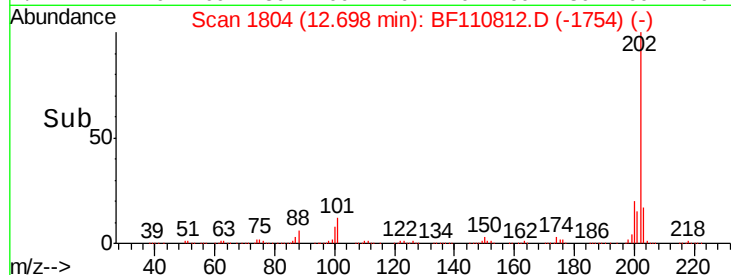
203 17.4 0.0 37.7



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# 2048

Delta R.T. -0.01 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

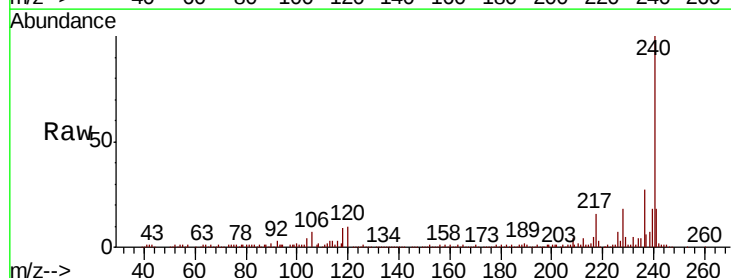
Tgt Ion:240 Resp: 163844

Ion Ratio Lower Upper

240 100

120 9.9 8.3 12.5

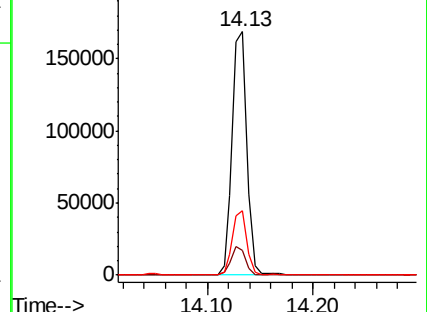
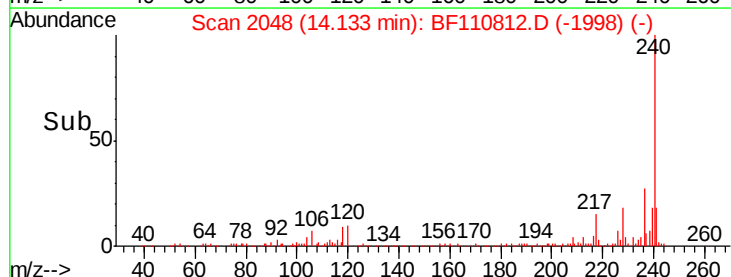
236 26.7 21.2 31.8

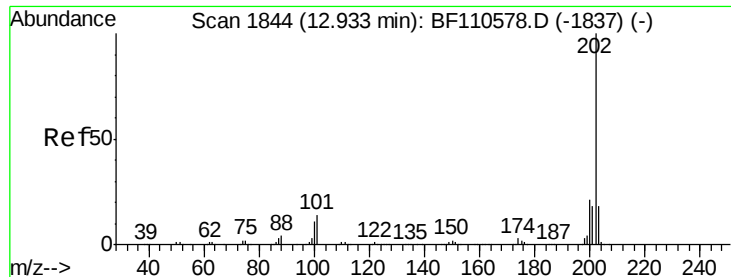


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

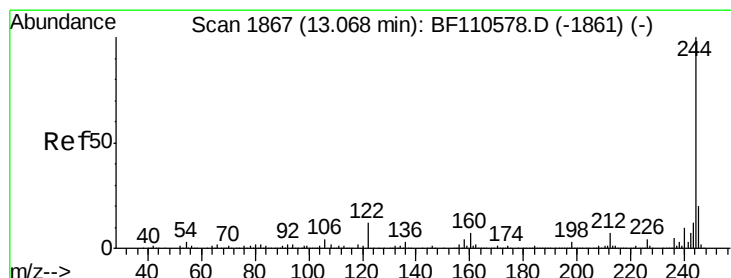
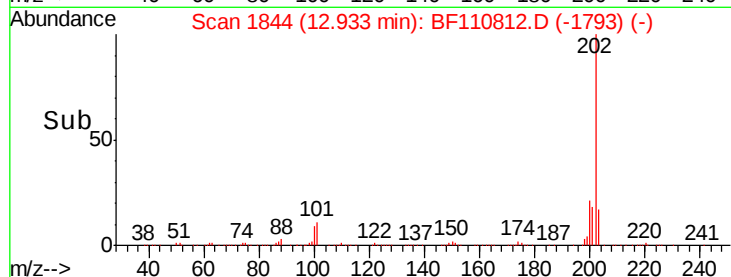
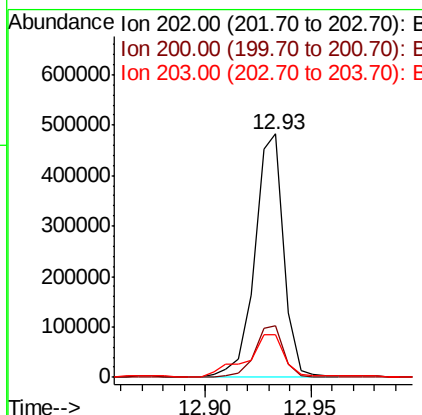
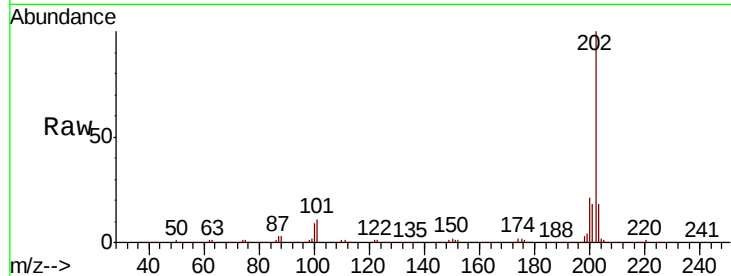




#78
Pvrene
Concen: 36.495 ng
RT: 12.93 min Scan# 1844
Delta R.T. 0.00 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

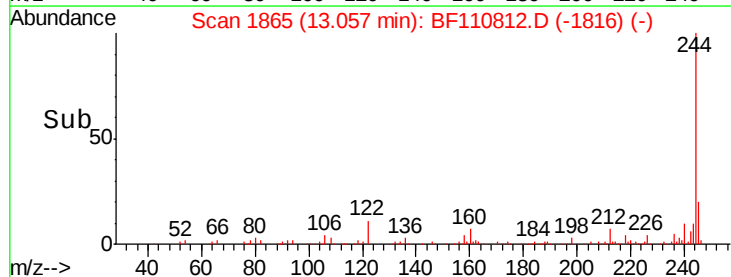
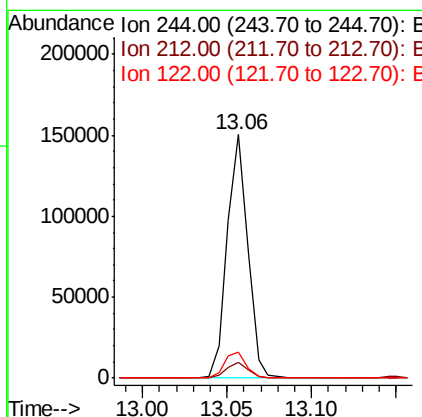
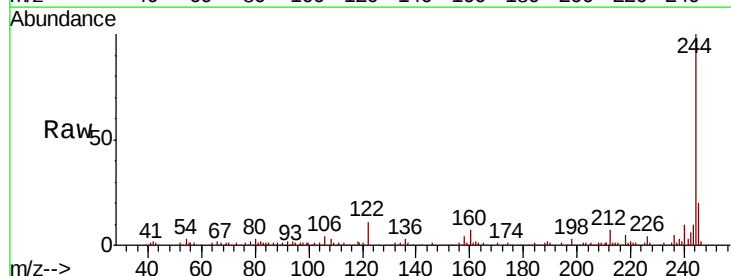
Instrument :
BNA_F
ClientSampleId :

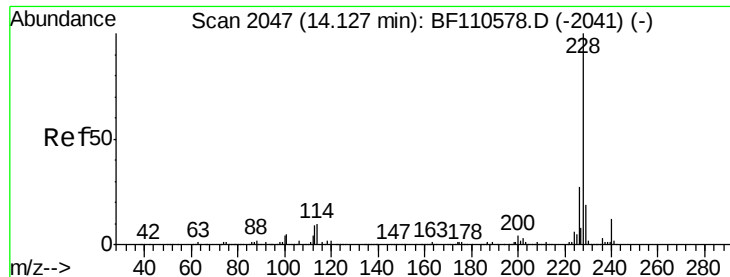
Tot Ion:202 Resp: 460412
Ion Ratio Lower Upper
202 100
200 21.0 17.8 26.6
203 17.6 14.2 21.4



#79
Terphenyl-d14
Concen: 14.574 ng
RT: 13.06 min Scan# 1865
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion:244 Resp: 127509
Ion Ratio Lower Upper
244 100
212 6.6 5.8 8.8
122 10.6 8.7 13.1

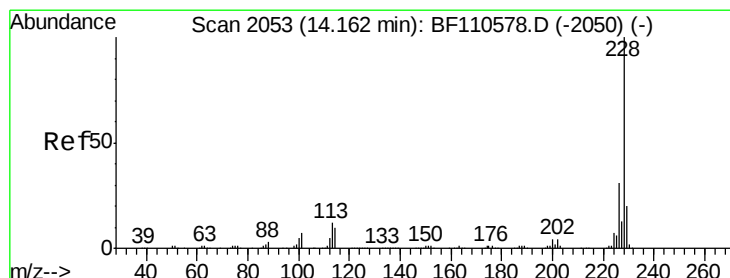
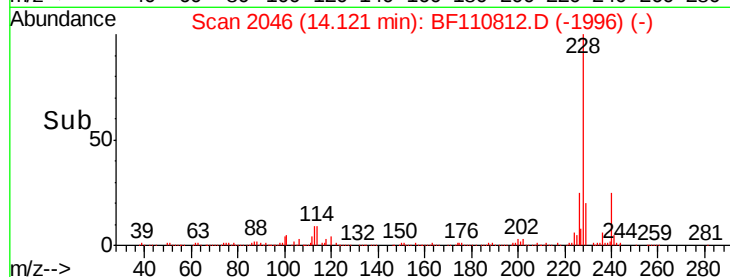
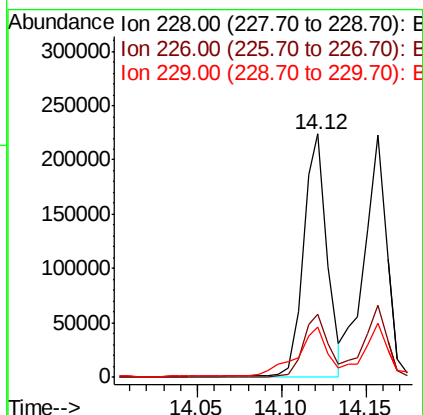
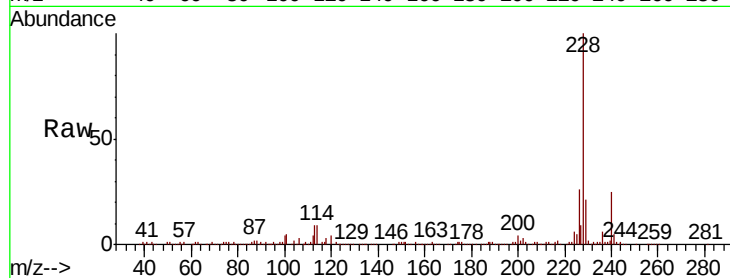




#81
Benzo(a)anthracene
Concen: 22.235 ng
RT: 14.12 min Scan# 2046
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

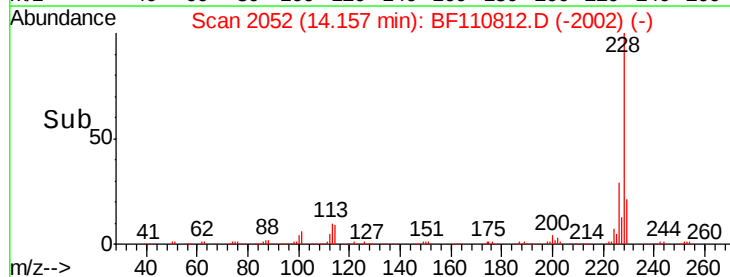
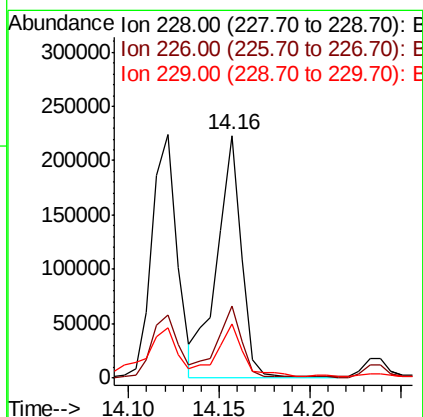
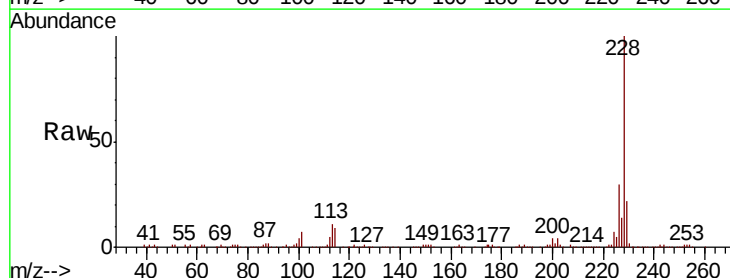
Instrument :
BNA_F
ClientSampled :

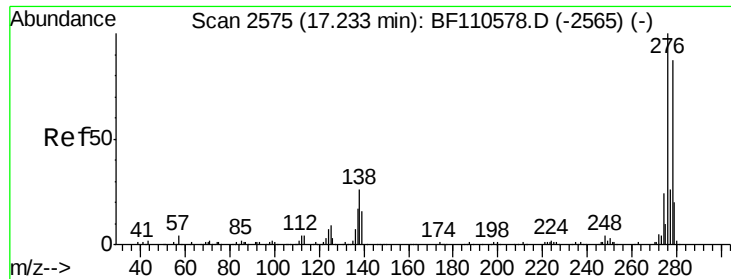
Tot Ion:228 Resp: 217746
Ion Ratio Lower Upper
228 100
226 25.9 22.1 33.1
229 20.7 15.6 23.4



#83
Chrysene
Concen: 22.422 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.01 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion:228 Resp: 209196
Ion Ratio Lower Upper
228 100
226 29.6 24.7 37.1
229 22.2 15.9 23.9

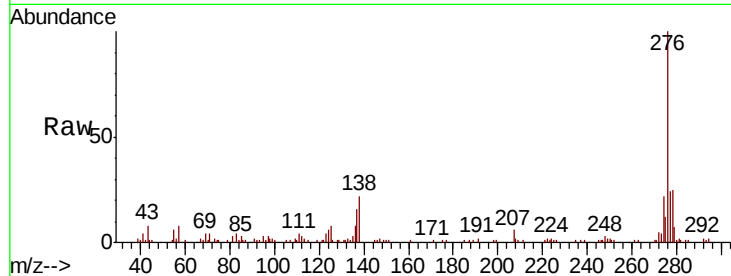




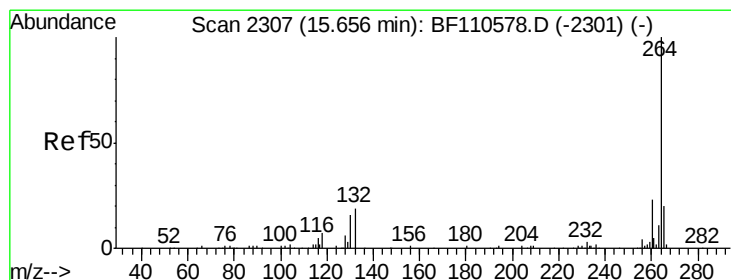
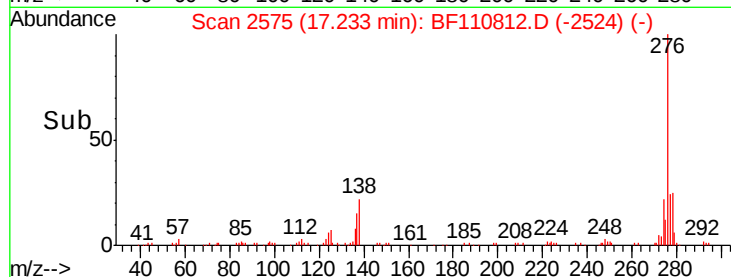
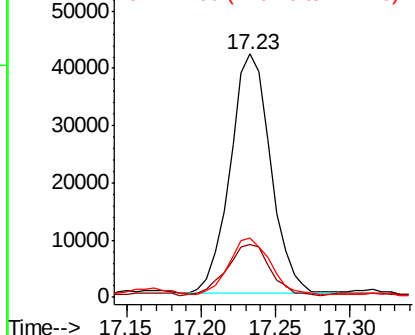
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.839 ng
 RT: 17.23 min Scan# 2575
 Delta R.T. 0.00 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.5	27.7
277	24.4	20.0	30.0

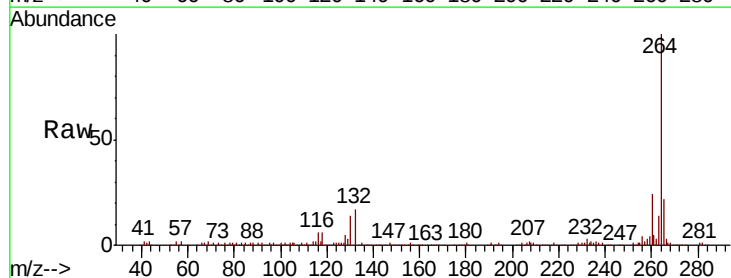


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

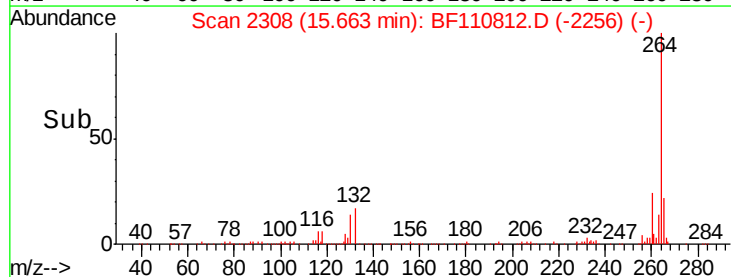
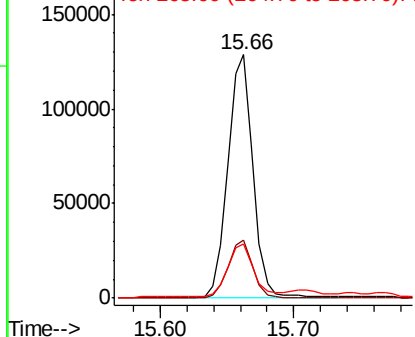


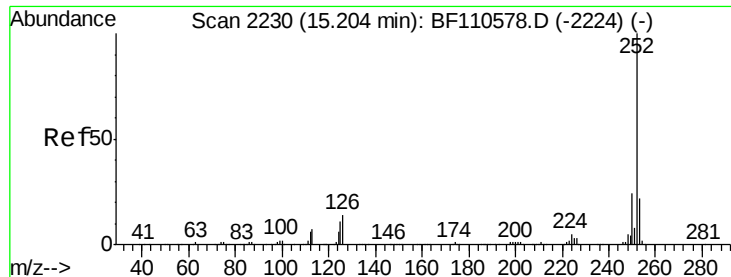
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.66 min Scan# 2308
 Delta R.T. 0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	22.4	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

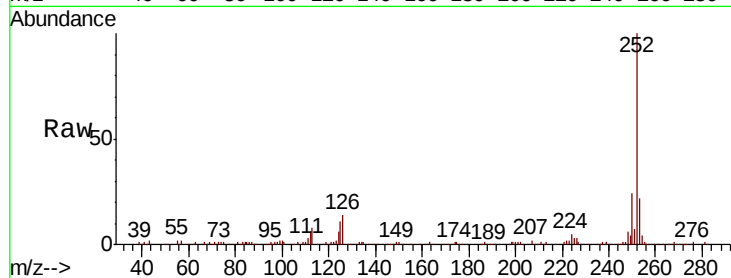




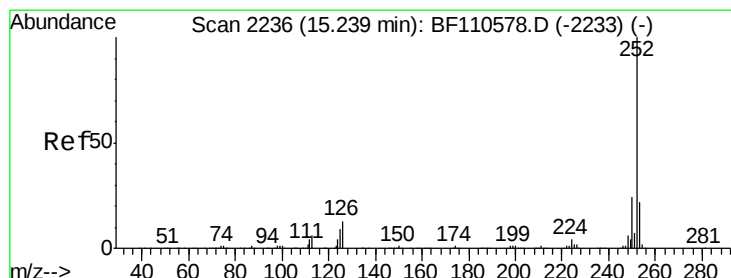
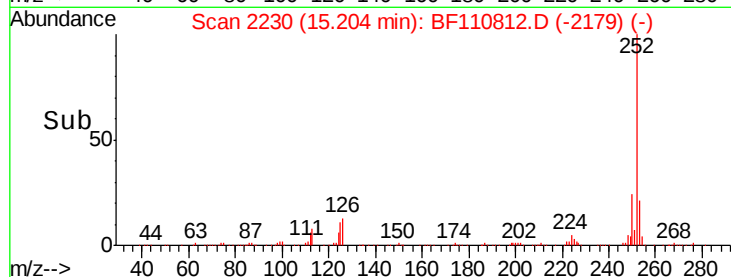
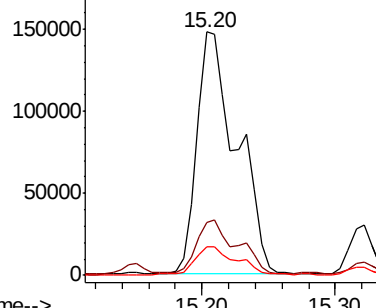
#88
Benzo(b)fluoranthene
Concen: 30.258 ng
RT: 15.20 min Scan# 2230
Delta R.T. 0.00 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	11.5	8.2	12.4

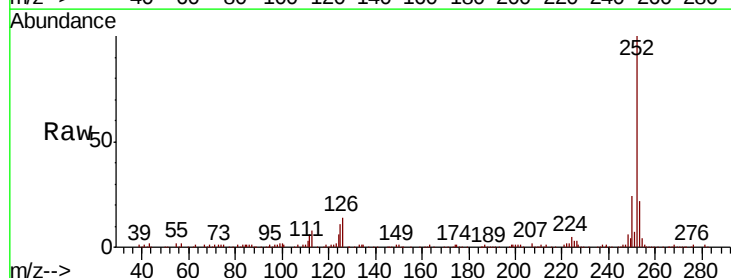


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

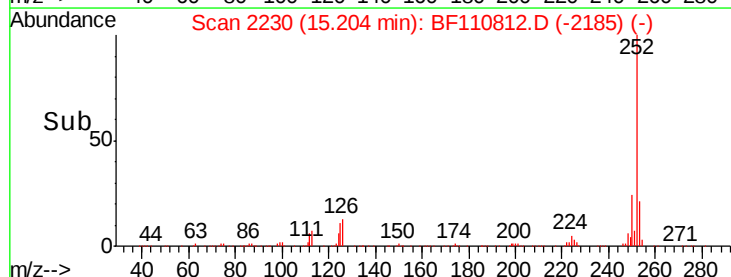
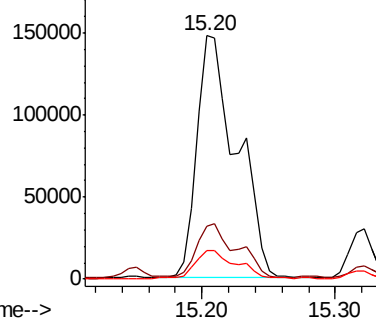


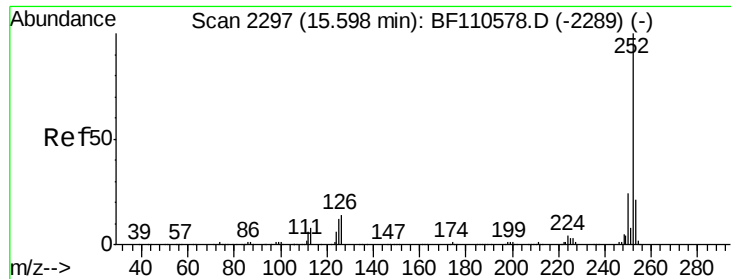
#89
Benzo(k)fluoranthene
Concen: 30.622 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.04 min
Lab File: BF110812.D
Acq: 16 Nov 2018 12:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	11.5	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: 18.830 ng

RT: 15.60 min Scan# 2297

Delta R.T. 0.00 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

Instrument :

BNA_F

ClientSampleId :

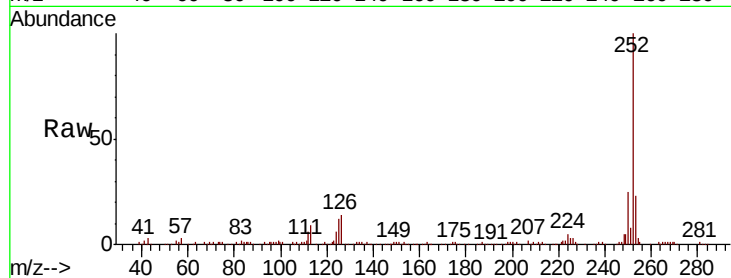
Tot Ion:252 Resp: 174686

Ion Ratio Lower Upper

252 100

253 22.9 18.2 27.4

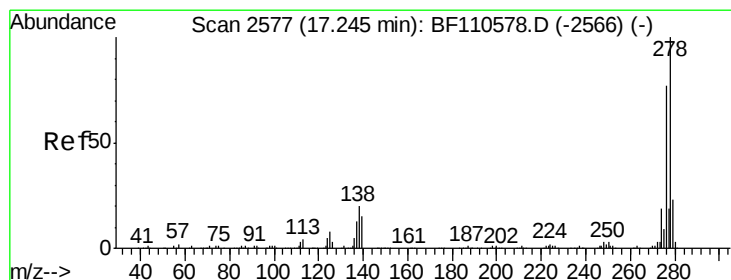
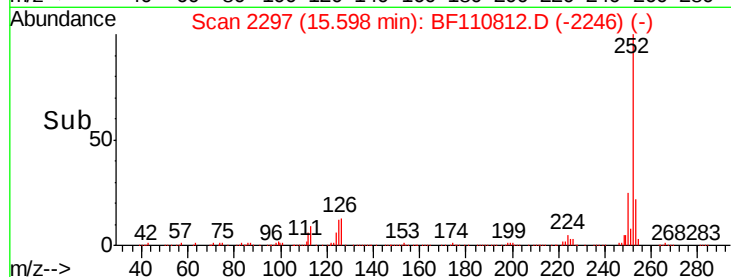
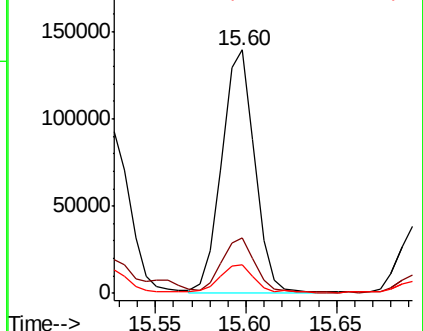
125 11.8 9.0 13.6



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



#91

Dibenzo(a,h)anthracene

Concen: 2.180 ng

RT: 17.02 min Scan# 2538

Delta R.T. -0.23 min

Lab File: BF110812.D

Acq: 16 Nov 2018 12:45

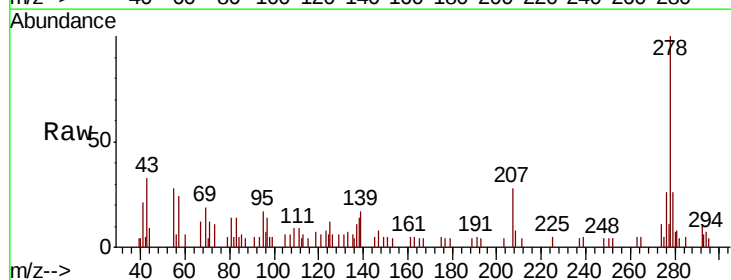
Tgt Ion:278 Resp: 17115

Ion Ratio Lower Upper

278 100

139 17.0 12.7 19.1

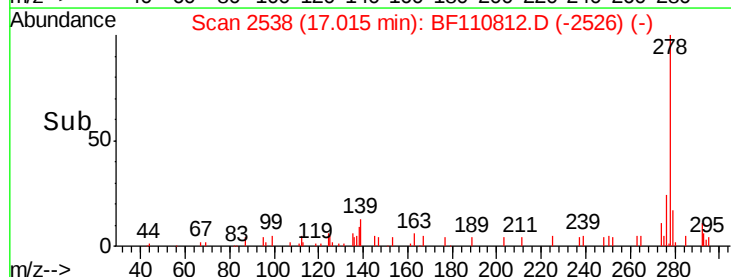
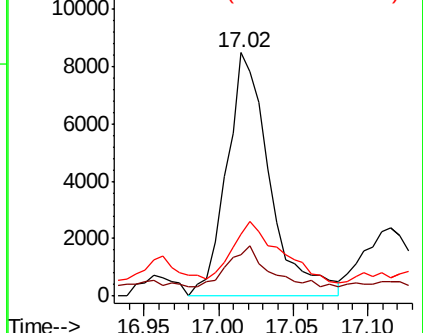
279 25.6 19.0 28.4

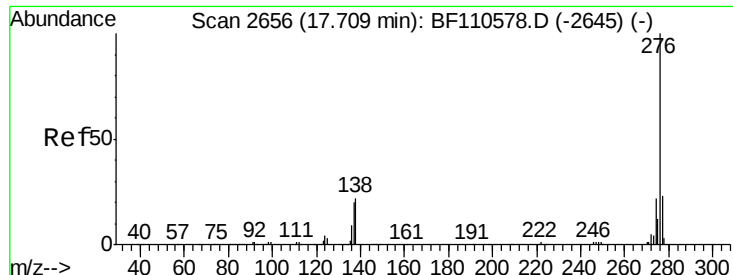


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

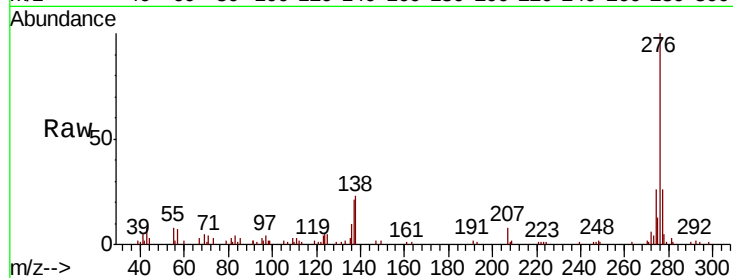




#92
 Benzo(a,h,i)perylene
 Concen: 9.164 ng
 RT: 17.72 min Scan# 2657
 Delta R.T. 0.01 min
 Lab File: BF110812.D
 Acq: 16 Nov 2018 12:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.8	28.2
138	23.0	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

