

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101052.D
 Acq On : 1 Dec 2017 8:36
 Operator : SJ/JU
 Sample : I6610-02DL 50X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 01 10:03:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 09:47:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	54642	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	207261	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	82077	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	131320	20.00	ng	0.00
75) Chrysene-d12	14.02	240	122385	20.00	ng	0.00
86) Perylene-d12	15.50	264	82524	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	4222	1.28	ng	0.00
7) Phenol-d6	6.48	99	5556	1.38	ng	0.00
23) Nitrobenzene-d5	7.42	82	3016	0.87	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	724	0.73	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	7038	1.17	ng	0.00
78) Terphenyl-d14	12.96	244	6196	1.11	ng	-0.01

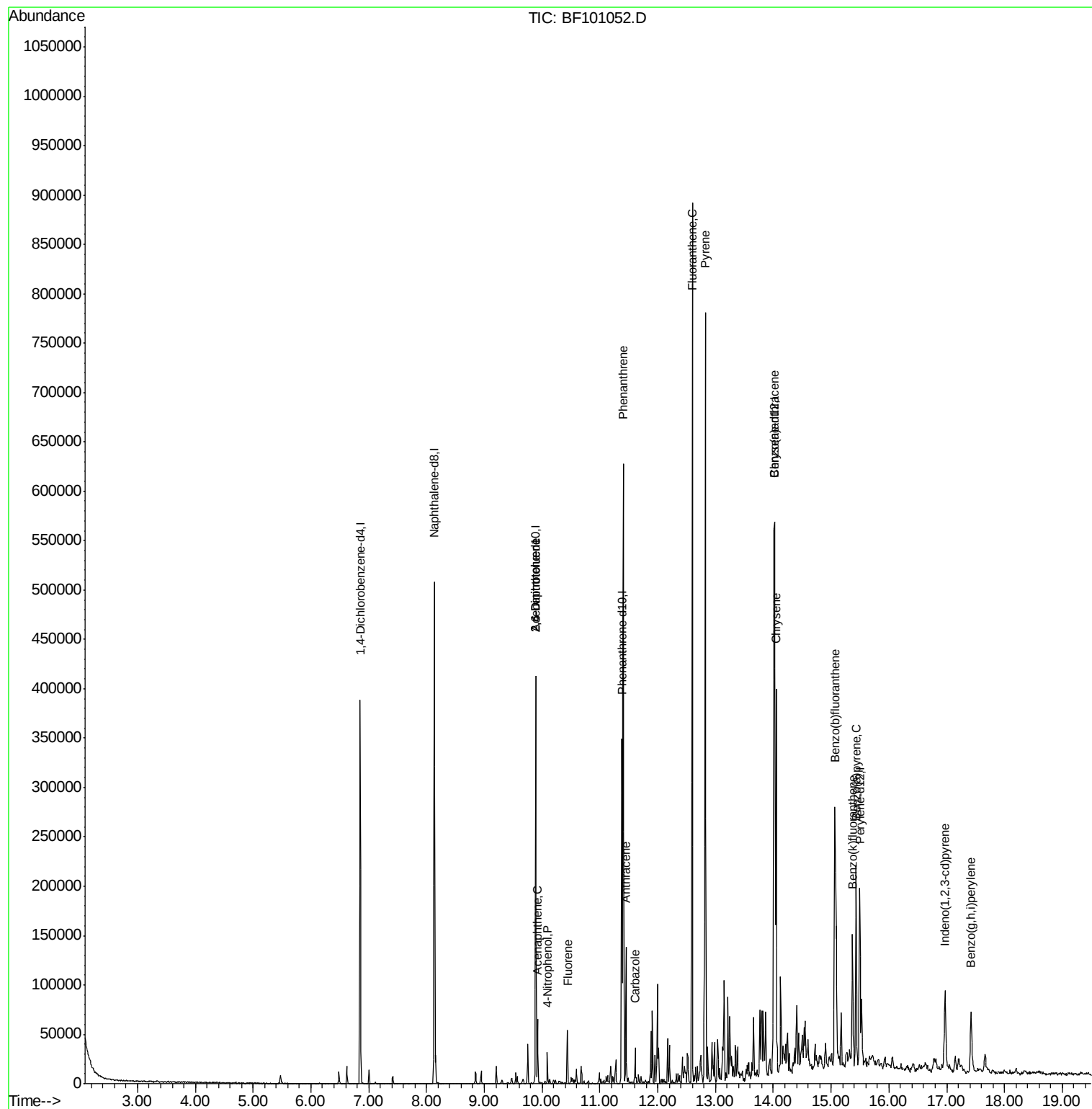
Target Compounds				Qvalue		
50) 2,6-Dinitrotoluene	9.89	165	11199	8.033	ng	# 24
51) Acenaphthene	9.92	154	12682	2.413	ng	92
55) 4-Nitrophenol	10.09	139	4260	4.029	ng	# 9
56) 2,4-Dinitrotoluene	9.89	165	11199	5.994	ng	# 21
57) Fluorene	10.44	166	15931	2.588	ng	99
70) Phenanthrene	11.40	178	222246	30.732	ng	98
71) Anthracene	11.45	178	53254	7.276	ng	96
72) Carbazole	11.61	167	15105	2.259	ng	100
74) Fluoranthene	12.60	202	367977	45.904	ng	93
77) Pyrene	12.83	202	314014	37.184	ng	98
80) Benzo(a)anthracene	14.02	228	176126	22.793	ng	99
82) Chrysene	14.05	228	155256	21.634	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	55796	8.745	ng	# 88
87) Benzo(b)fluoranthene	15.07	252	205375	41.549	ng	97
88) Benzo(k)fluoranthene	15.37	252	50333	10.335	ng	99
89) Benzo(a)pyrene	15.43	252	96919	21.567	ng	96
91) Benzo(a,h,i)perylene	17.42	276	51041	13.671	ng	# 91

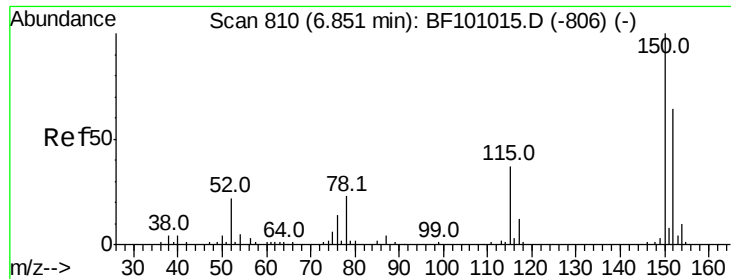
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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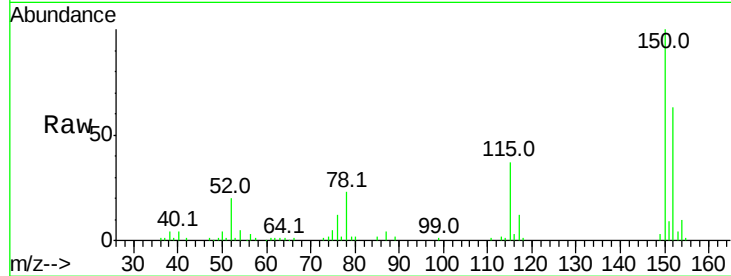


#1

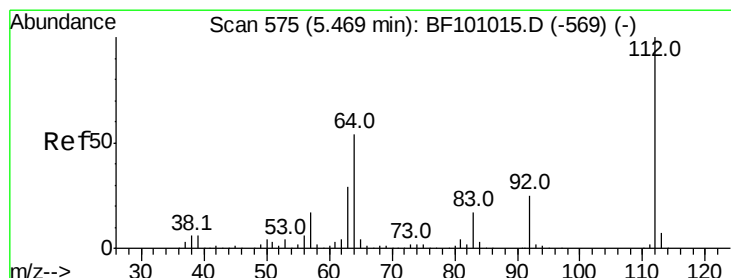
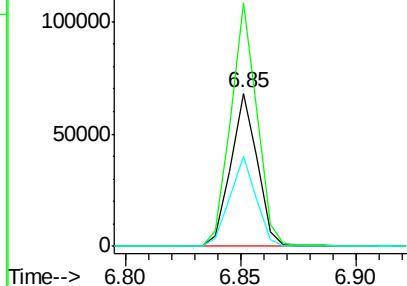
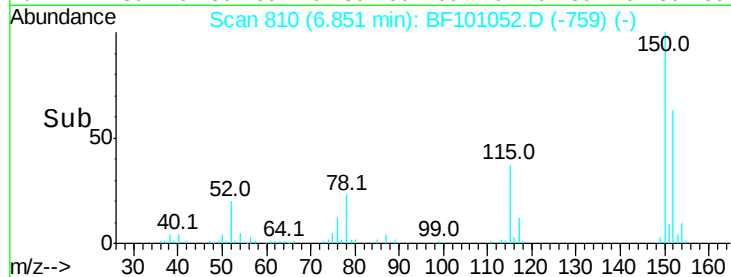
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	124.6	186.8
115	58.5	50.1	75.1



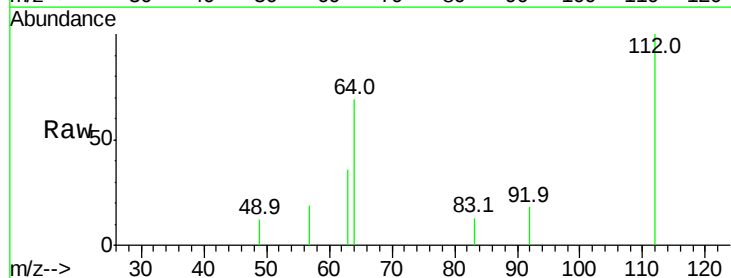
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



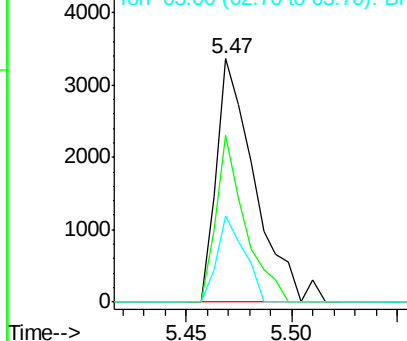
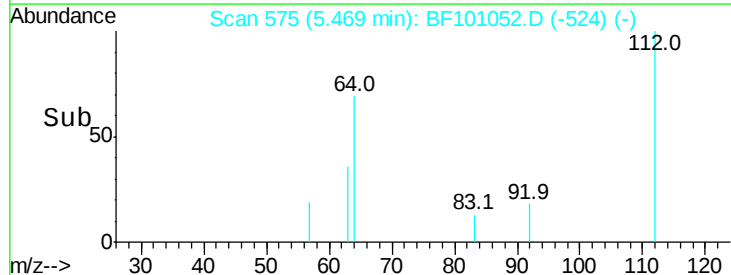
#5

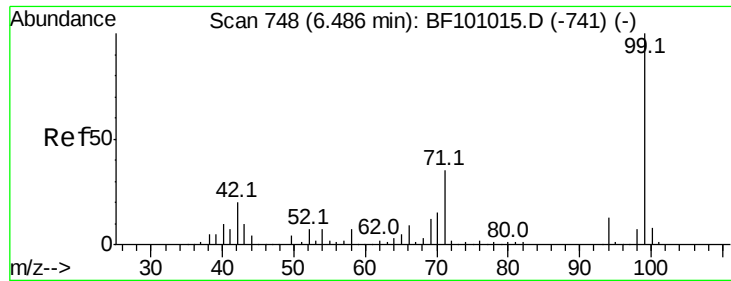
2-Fluorophenol
Concen: 1.277 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.6	47.9	71.9
63	35.6	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: 1.384 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

Instrument :

BNA_F

ClientSampleId :

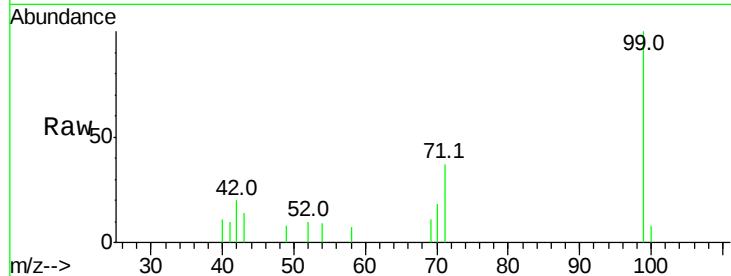
Tot Ion: 99 Resp: 5556

Ion Ratio Lower Upper

99 100

42 19.5 14.5 21.7

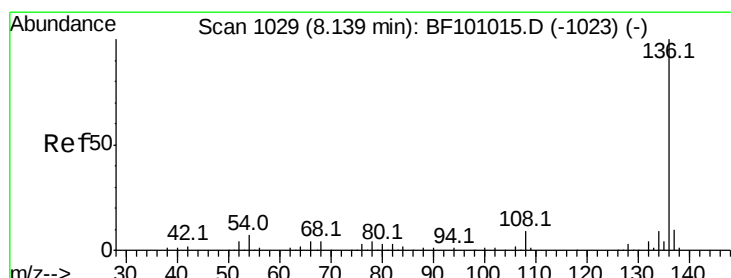
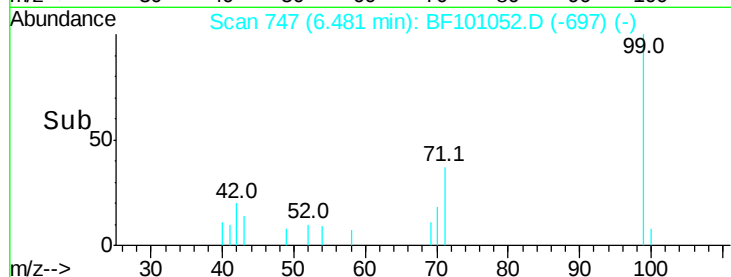
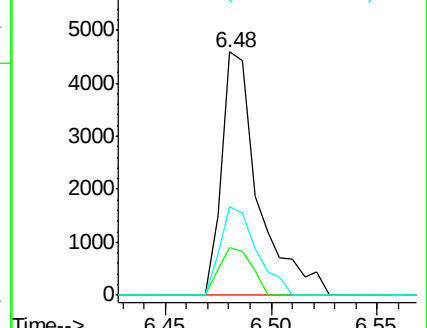
71 36.6 25.4 38.0



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: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

Tgt Ion: 136 Resp: 207261

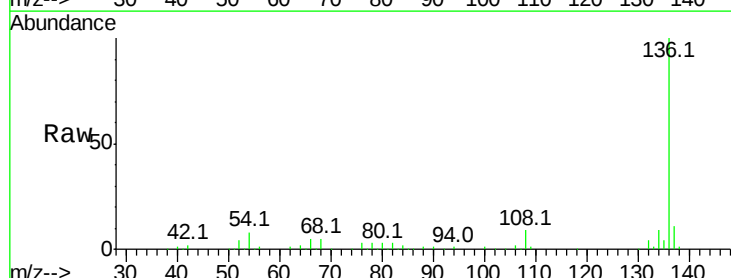
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.5 6.6 9.8

68 4.8 5.0 7.4#

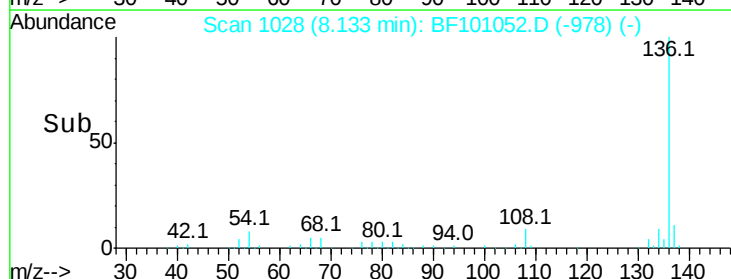
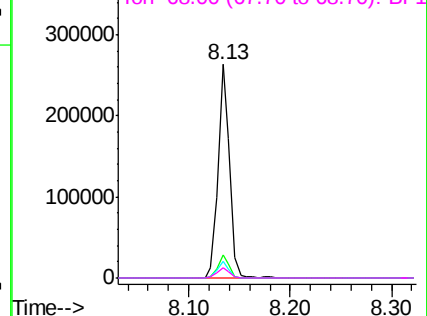


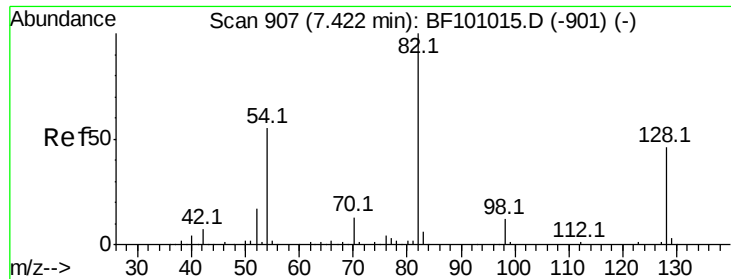
Abundance Ion 136.00 (135.70 to 136.70): E

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

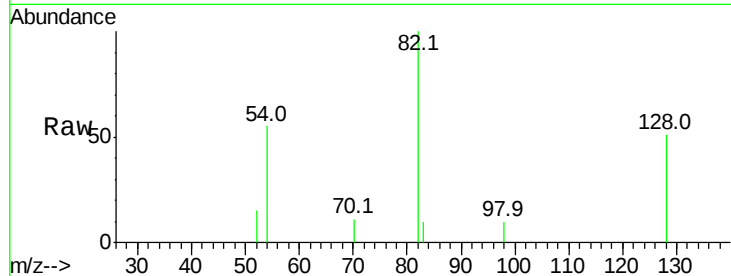




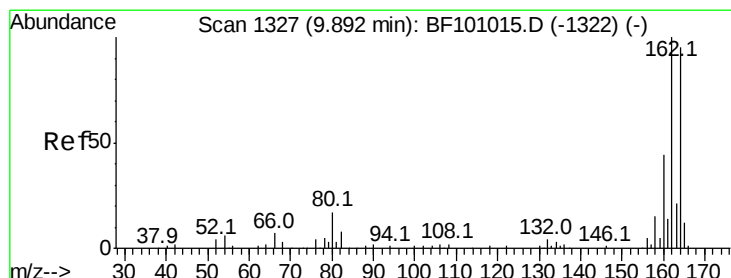
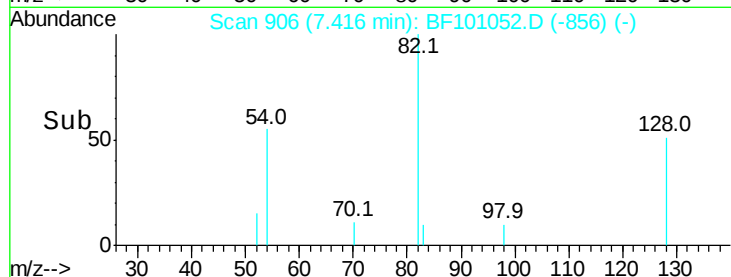
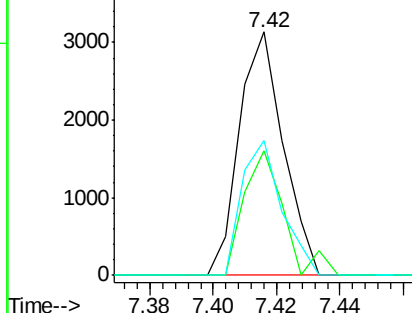
#23
Nitrobenzene-d5
Concen: 0.868 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 3016
Ion Ratio Lower Upper
82 100
128 51.1 36.1 54.1
54 55.3 41.4 62.2

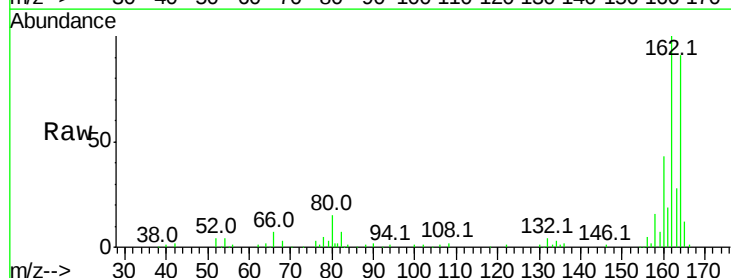


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

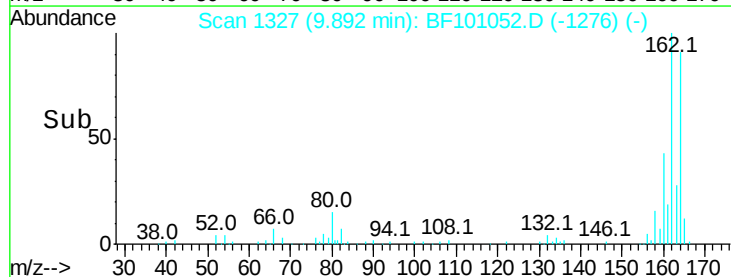
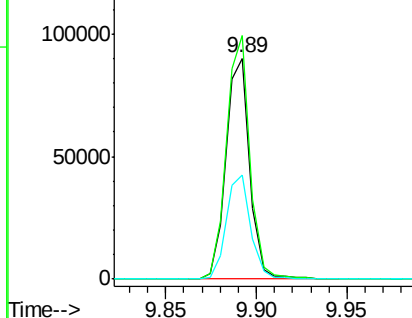


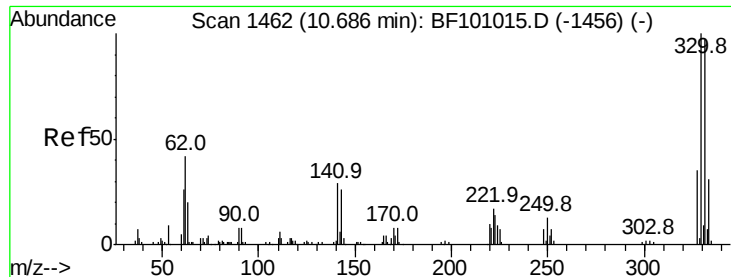
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion: 164 Resp: 82077
Ion Ratio Lower Upper
164 100
162 110.2 86.1 129.1
160 46.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

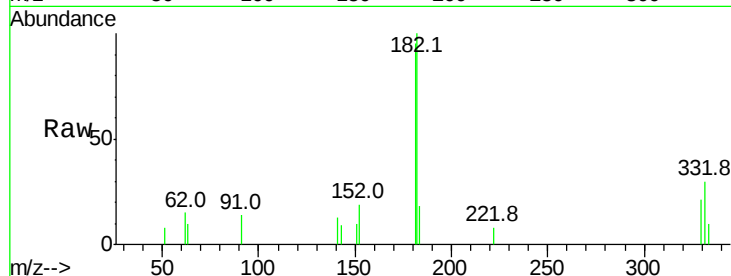




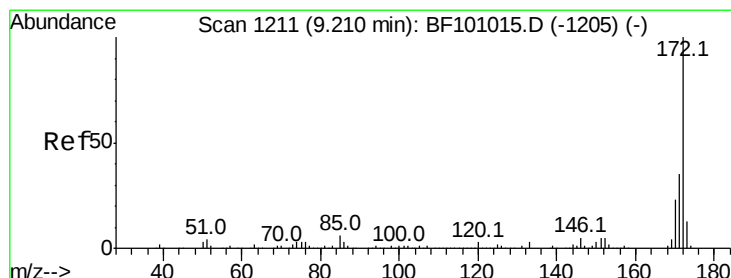
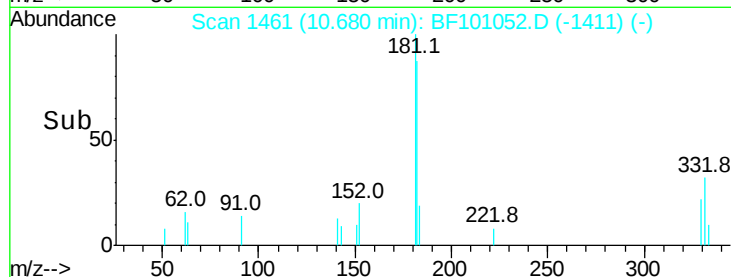
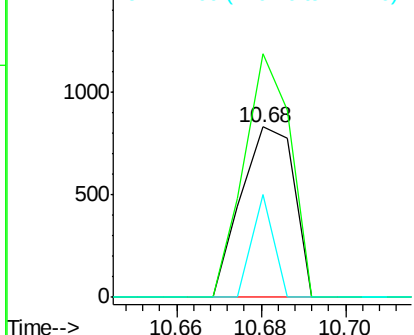
#41
 2,4,6-Tribromophenol
 Concen: 0.734 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 724
 Ion Ratio Lower Upper
 330 100
 332 125.7 77.0 115.6#
 141 24.4 29.9 44.9#

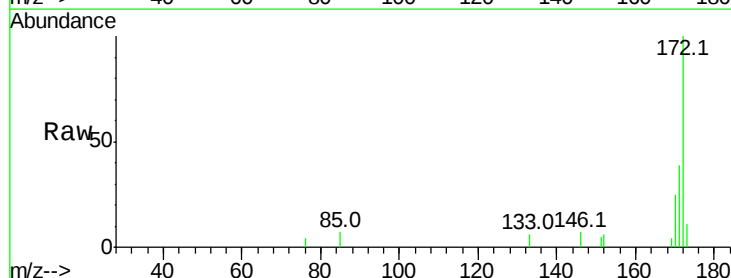


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

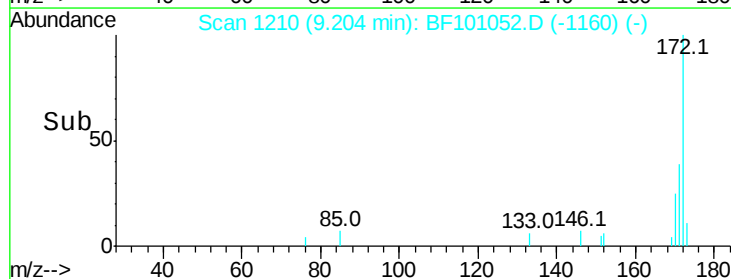
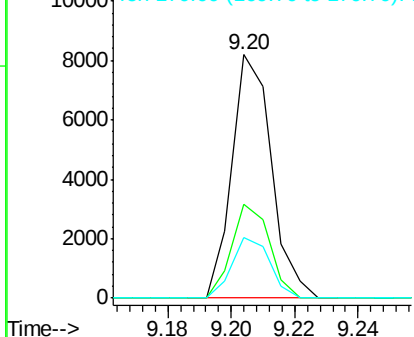


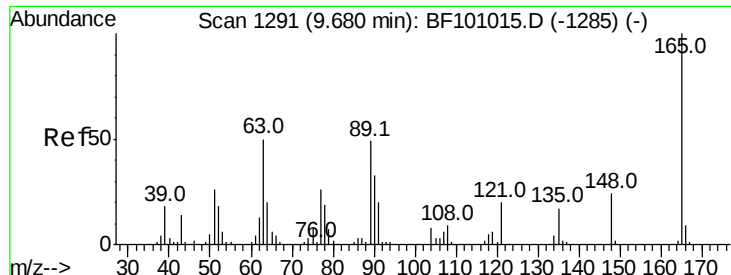
#44
 2-Fluorobiphenyl
 Concen: 1.173 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Tgt Ion:172 Resp: 7038
 Ion Ratio Lower Upper
 172 100
 171 38.7 29.7 44.5
 170 24.9 19.6 29.4



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

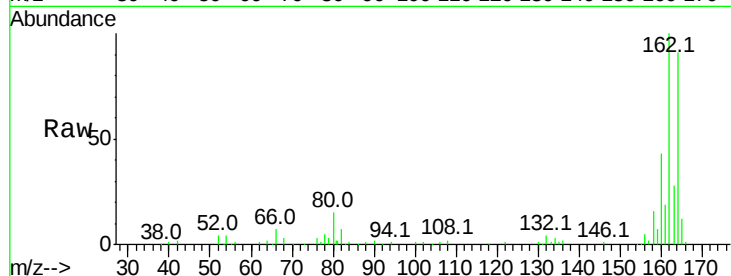




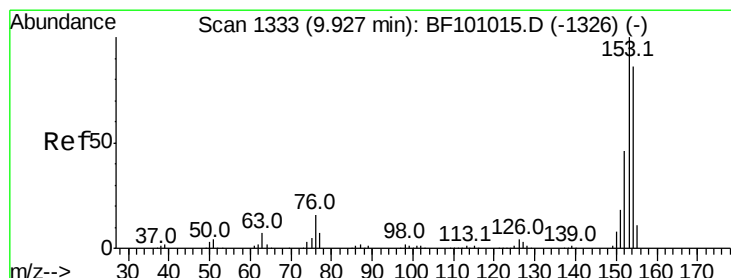
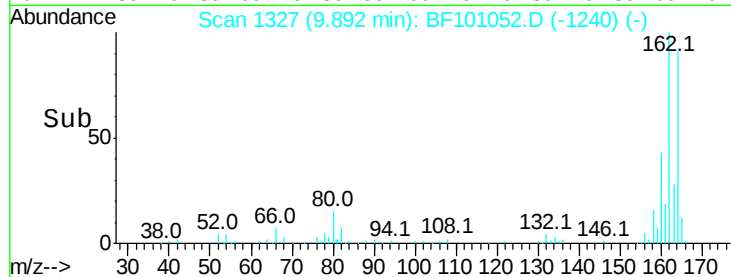
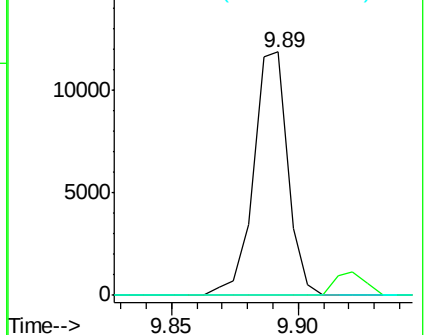
#50
2,6-Dinitrotoluene
Concen: 8.033 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.21 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 11199
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#

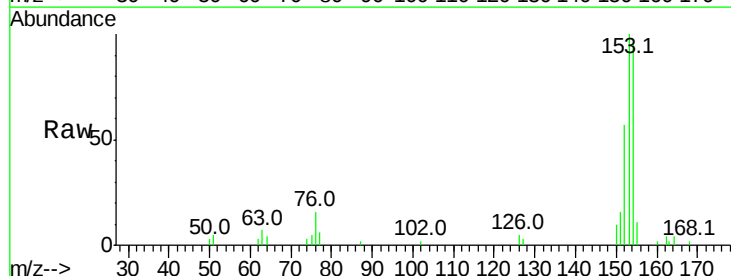


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

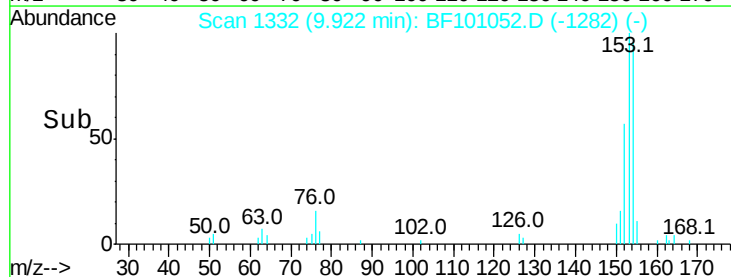
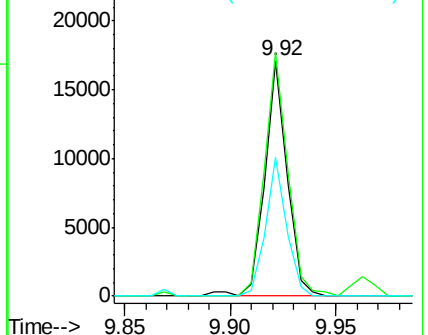


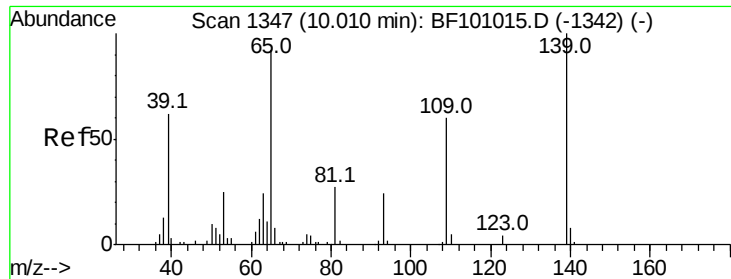
#51
Acenaphthene
Concen: 2.413 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion:154 Resp: 12682
Ion Ratio Lower Upper
154 100
153 103.7 91.2 136.8
152 59.1 43.8 65.8



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

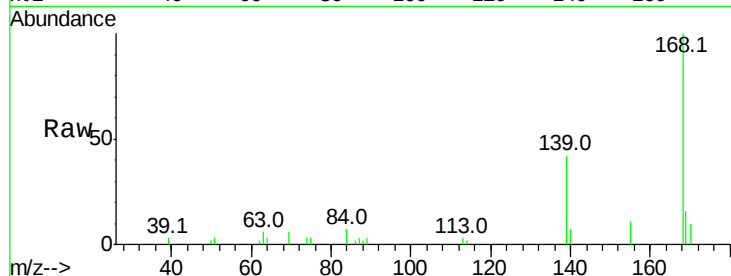




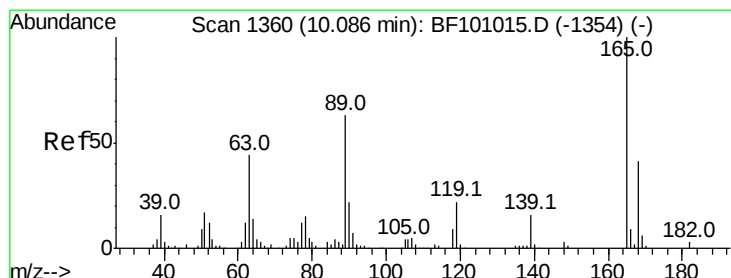
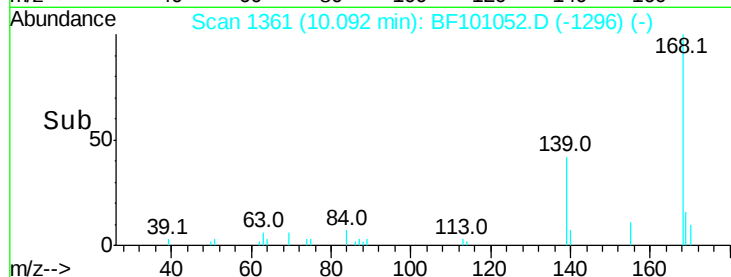
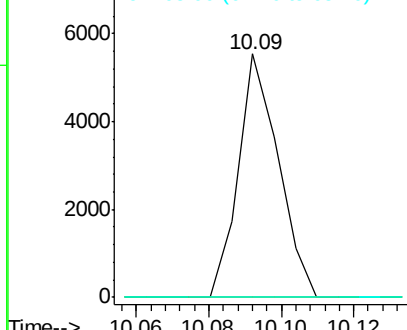
#55
4-Nitrophenol
Concen: 4.029 ng
RT: 10.09 min Scan# 1361
Delta R.T. 0.08 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 4260
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#

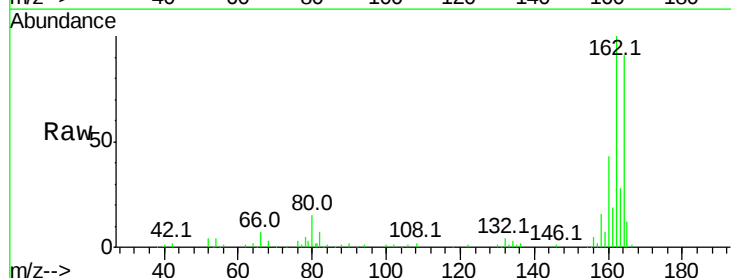


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

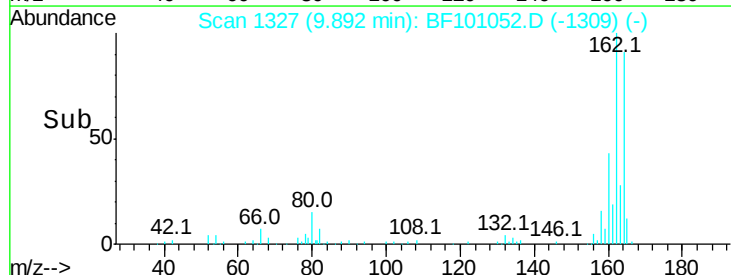
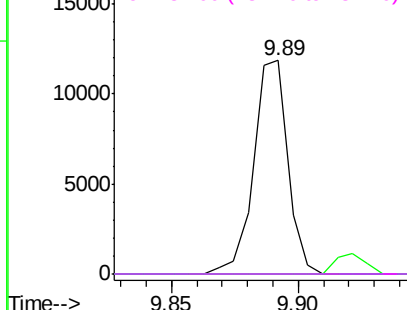


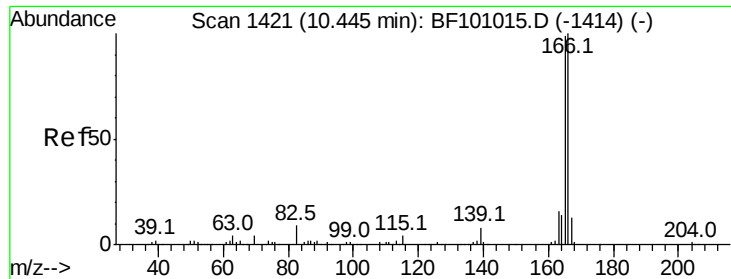
#56
2,4-Dinitrotoluene
Concen: 5.994 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.19 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion:165 Resp: 11199
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#



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

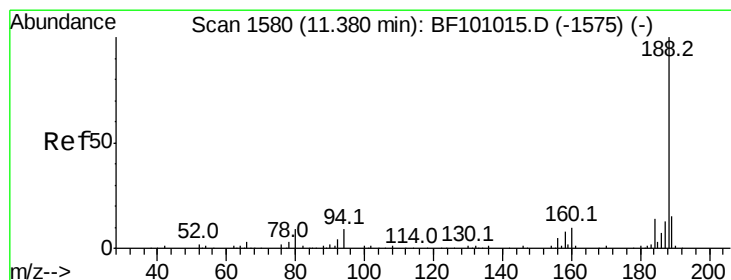
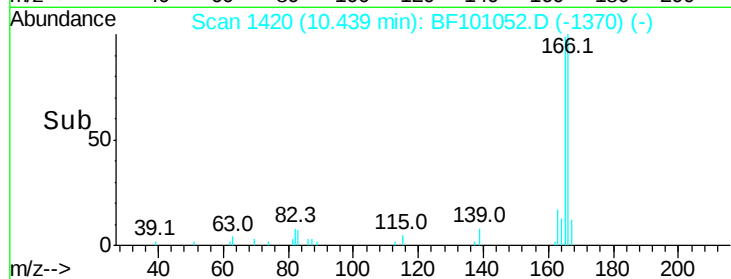
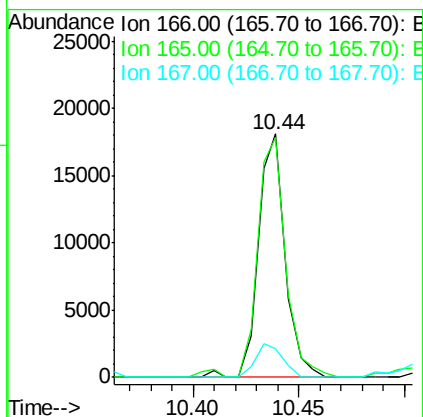
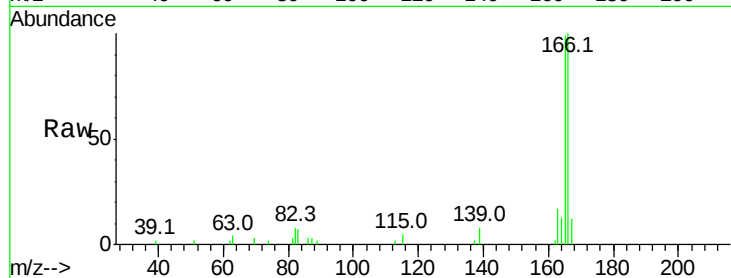




#57
Fluorene
Concen: 2.588 ng
RT: 10.44 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

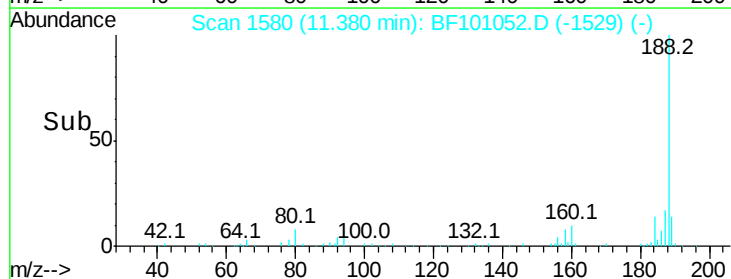
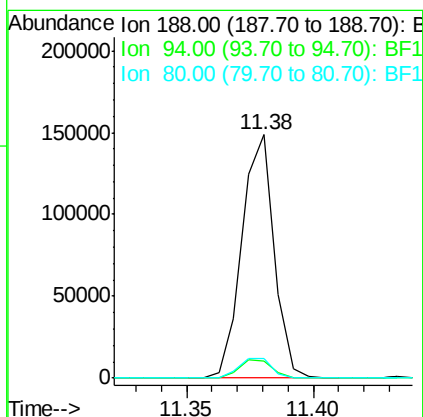
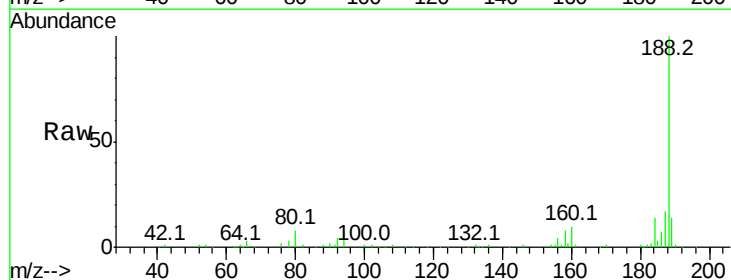
Instrument :
BNA_F
ClientSampleId :

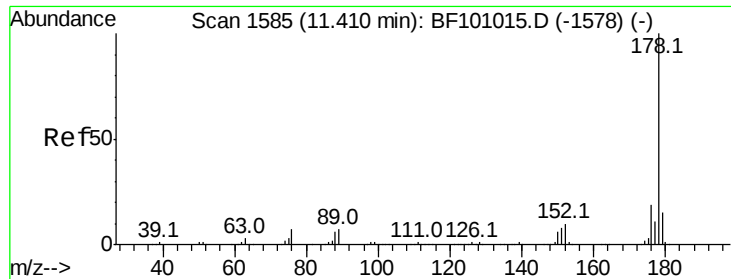
Tot Ion:166 Resp: 15931
Ion Ratio Lower Upper
166 100
165 98.7 79.8 119.8
167 11.7 10.6 16.0



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion:188 Resp: 131320
Ion Ratio Lower Upper
188 100
94 7.2 8.5 12.7#
80 8.0 9.2 13.8#

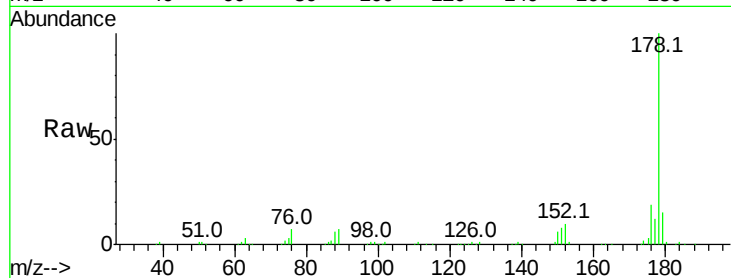




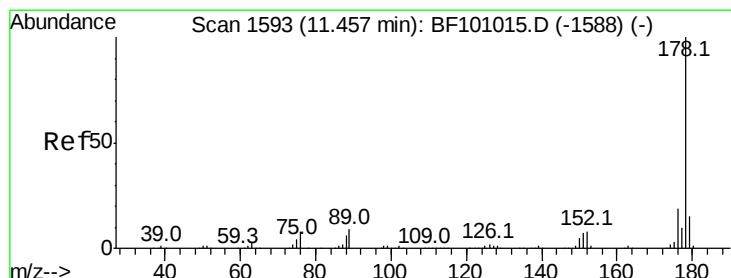
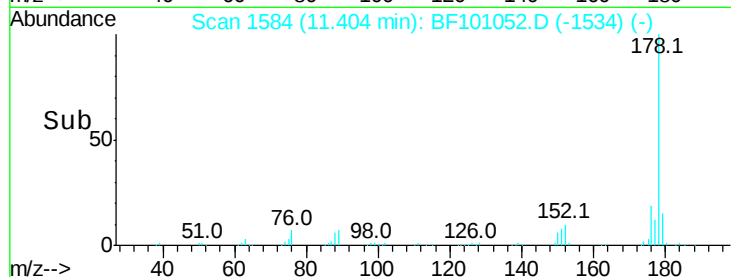
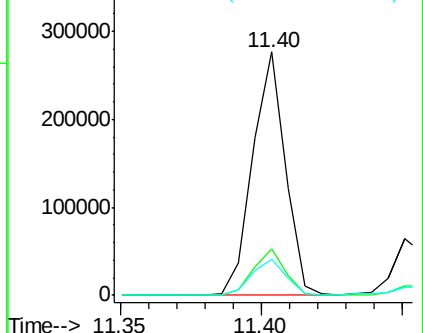
#70
 Phenanthrene
 Concen: 30.732 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 222246
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.8
 179 15.0 13.0 19.6

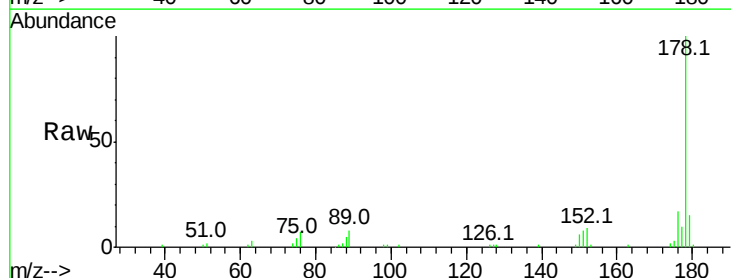


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

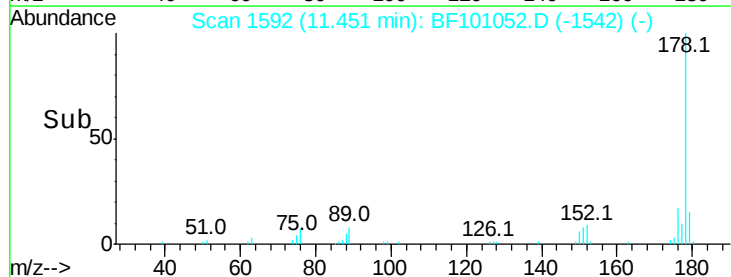
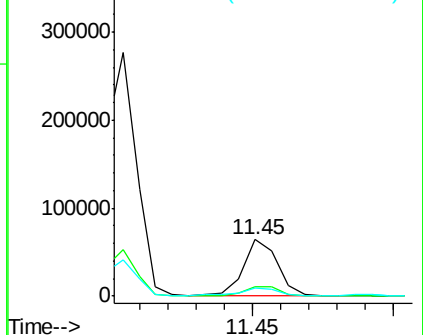


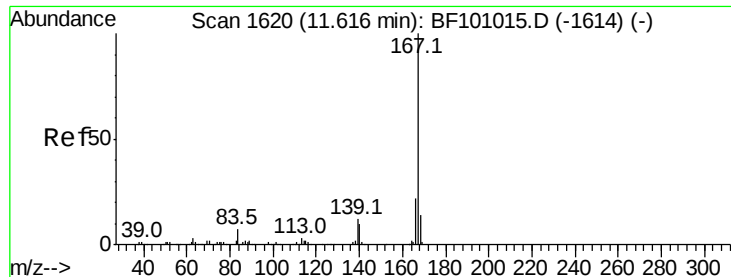
#71
 Anthracene
 Concen: 7.276 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Tgt Ion:178 Resp: 53254
 Ion Ratio Lower Upper
 178 100
 176 17.2 15.4 23.2
 179 14.7 12.6 19.0



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

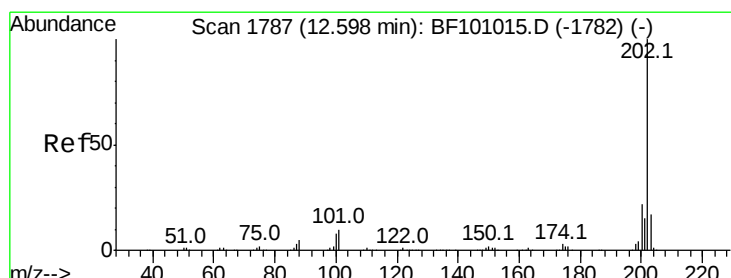
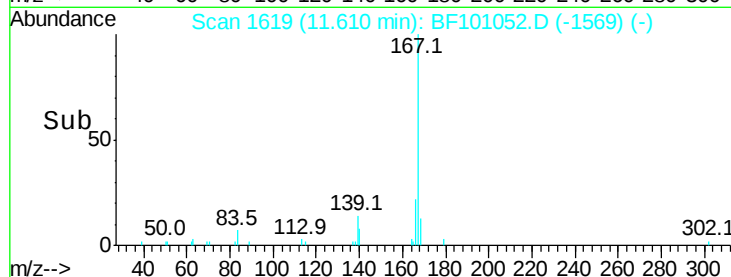
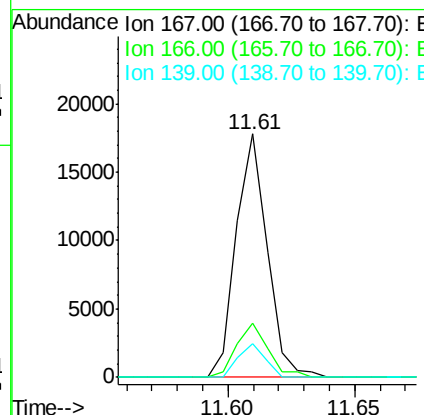
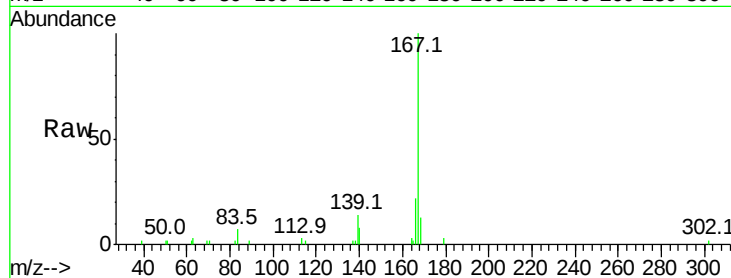




#72
 Carbazole
 Concen: 2.259 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

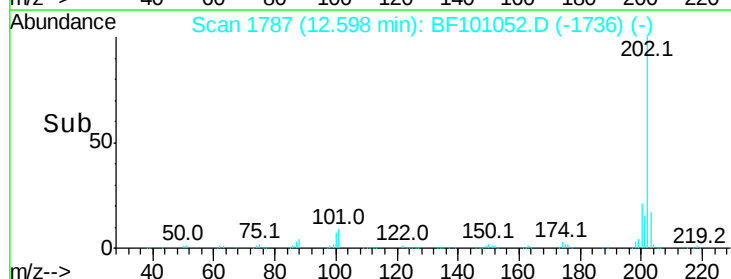
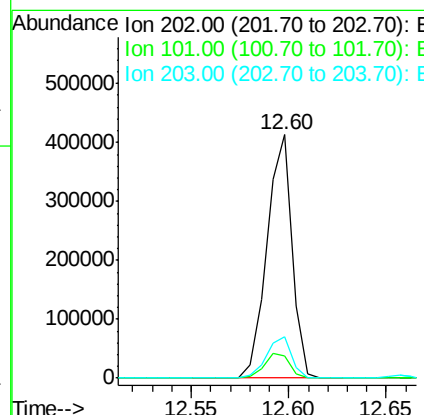
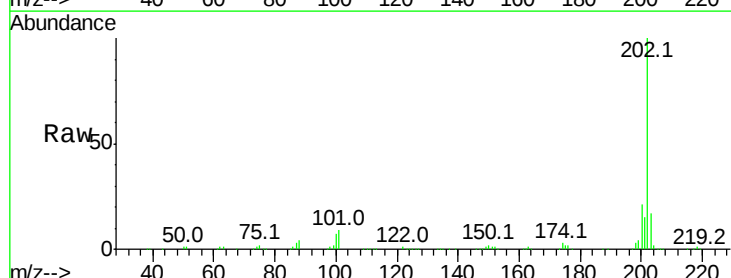
Instrument :
 BNA_F
 ClientSampleId :

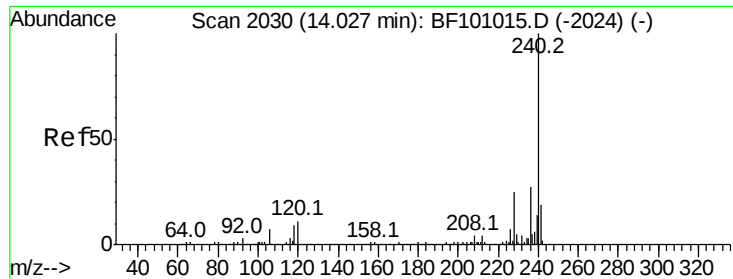
Tot Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	13.6	10.9	16.3



#74
 Fluoranthene
 Concen: 45.904 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	34.1
203	17.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

Instrument :

BNA_F

ClientSampleId :

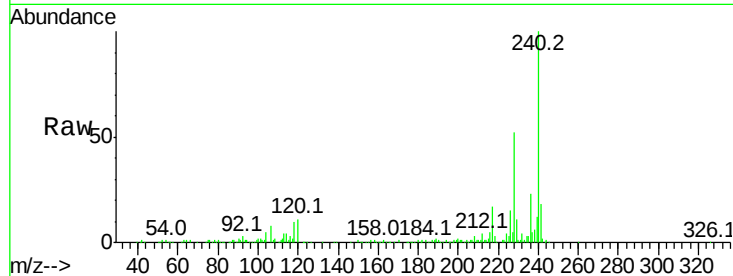
Tot Ion:240 Resp: 122385

Ion Ratio Lower Upper

240 100

120 11.3 9.5 14.3

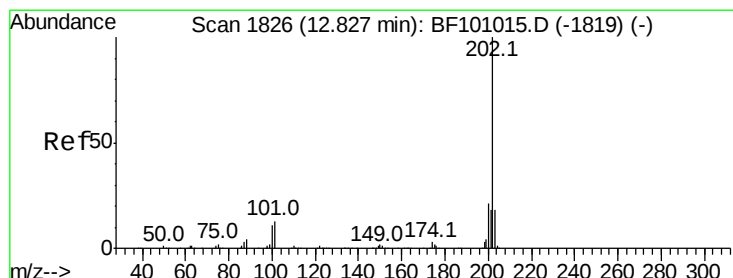
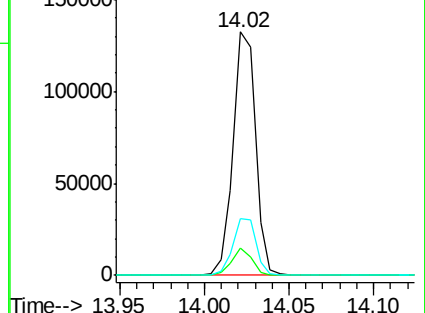
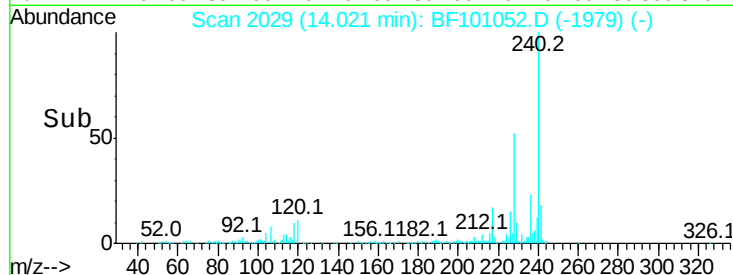
236 23.5 20.7 31.1



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



#77

Pyrene

Concen: 37.184 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.00 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

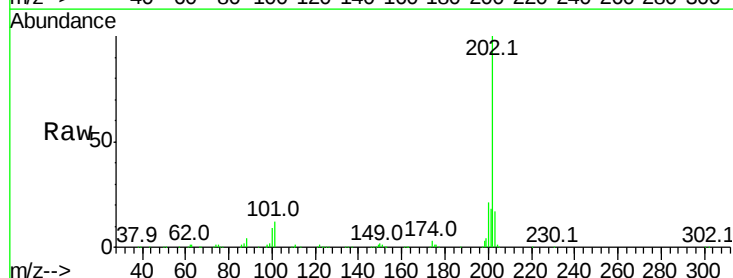
Tgt Ion:202 Resp: 314014

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

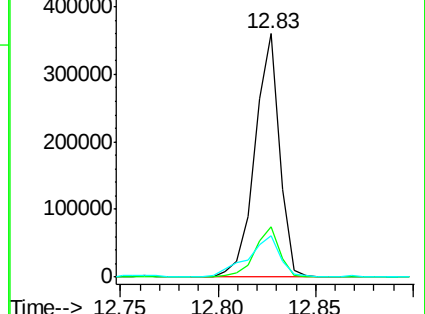
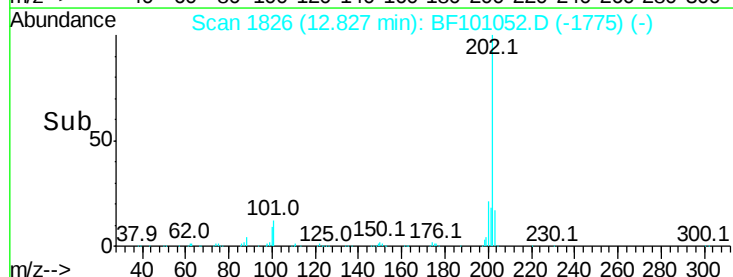
203 17.1 14.3 21.5

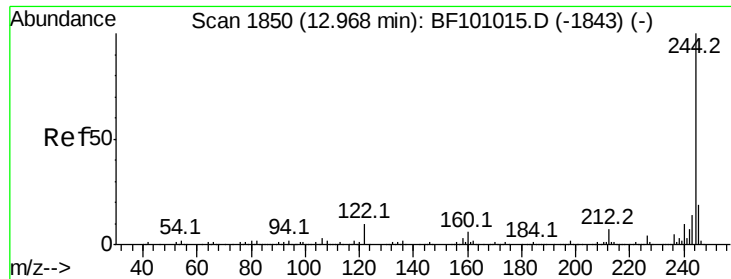


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

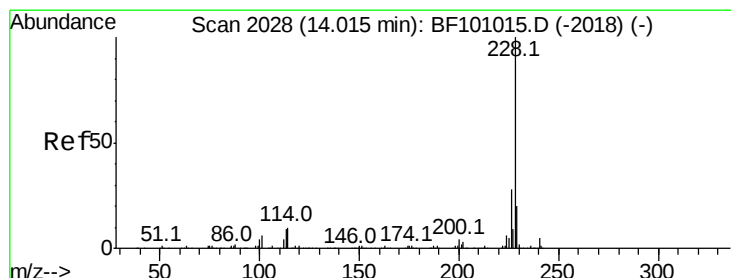
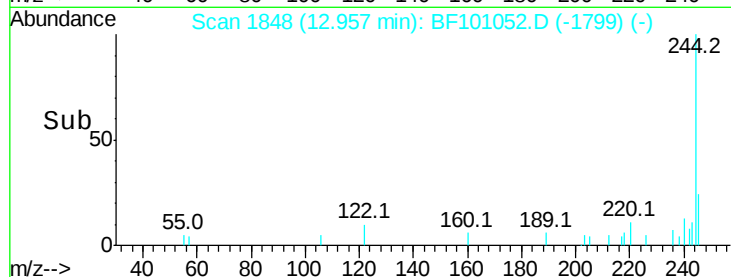
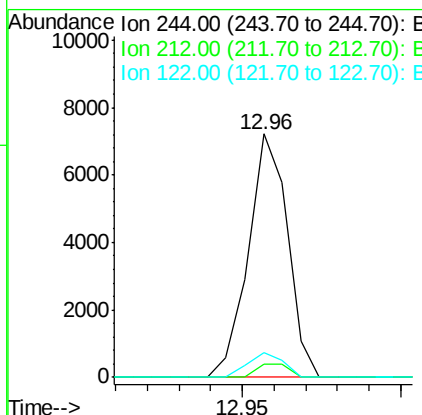
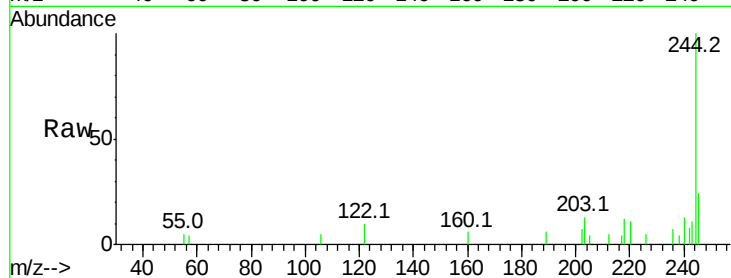




#78
 Terphenyl-d14
 Concen: 1.107 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.01 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

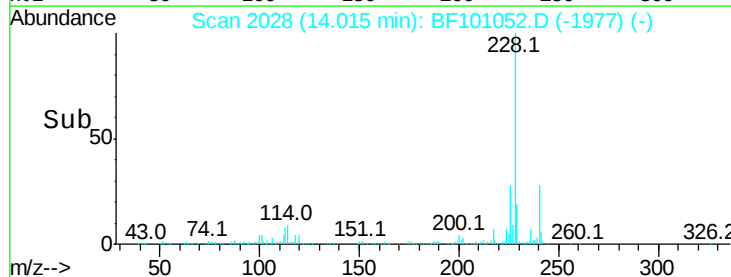
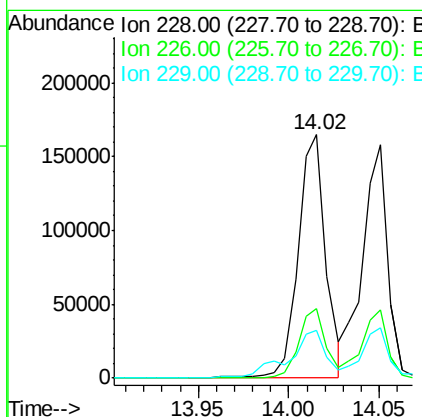
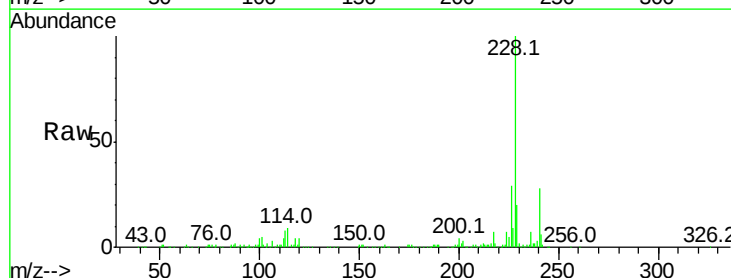
Instrument :
 BNA_F
 ClientSampleId :

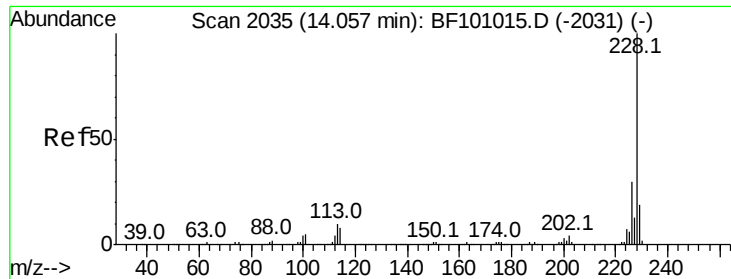
Tot Ion:244 Resp: 6196
 Ion Ratio Lower Upper
 244 100
 212 5.2 5.4 8.0#
 122 10.3 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 22.793 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.00 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Tgt Ion:228 Resp: 176126
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.6 33.8
 229 19.8 15.8 23.6





#82

Chrysene

Concen: 21.634 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

Instrument :

BNA_F

ClientSampleId :

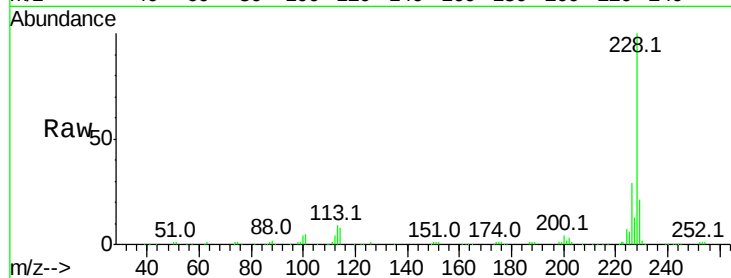
Tot Ion:228 Resp: 155256

Ion Ratio Lower Upper

228 100

226 29.0 25.0 37.6

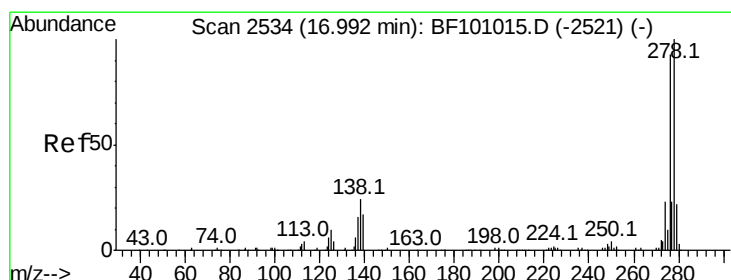
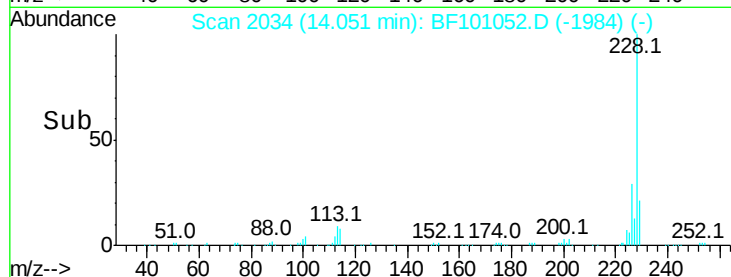
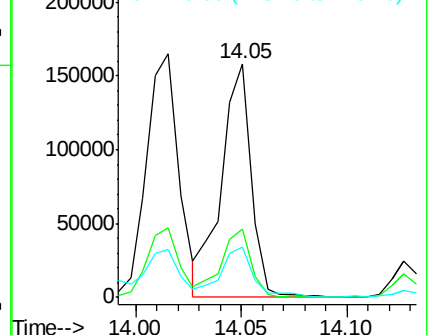
229 21.3 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.745 ng

RT: 16.97 min Scan# 2531

Delta R.T. -0.02 min

Lab File: BF101052.D

Acq: 1 Dec 2017 8:36

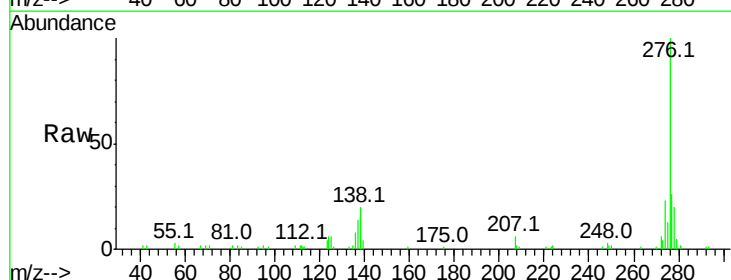
Tgt Ion:276 Resp: 55796

Ion Ratio Lower Upper

276 100

138 20.1 25.0 37.6#

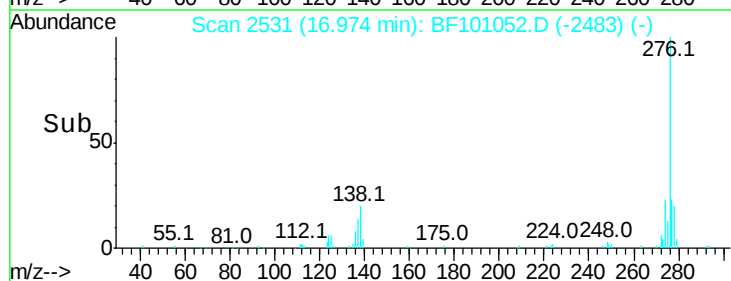
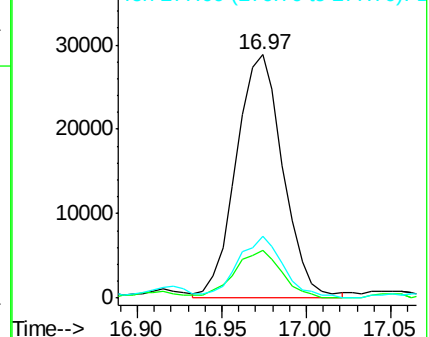
277 24.6 20.1 30.1

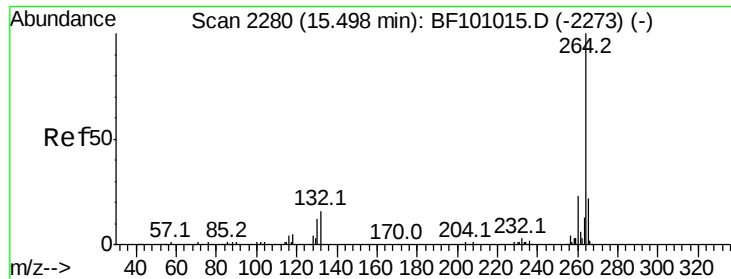


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

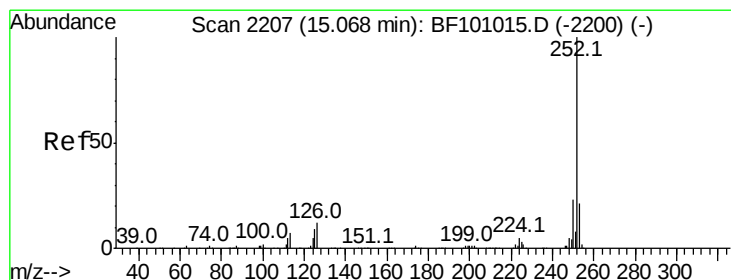
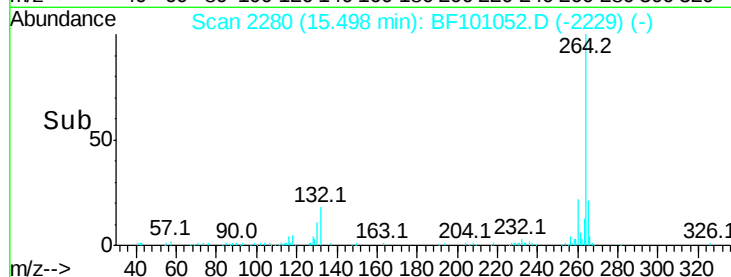
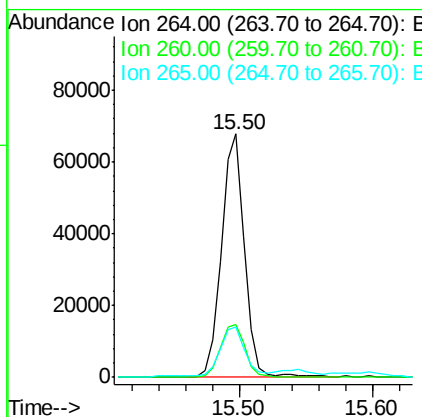
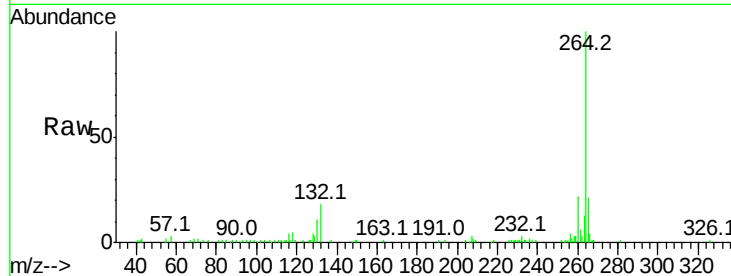




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. -0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

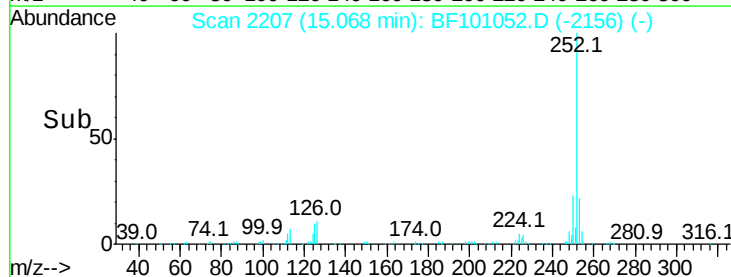
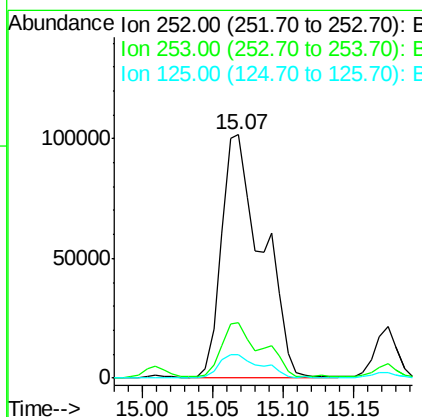
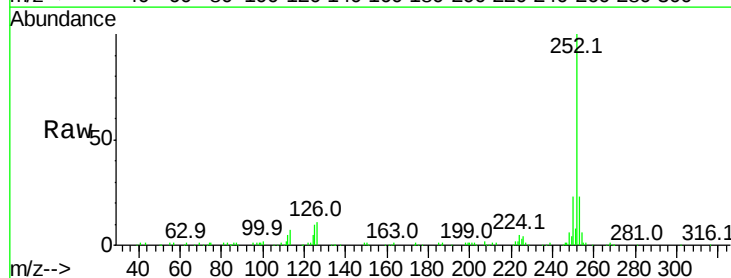
Instrument :
BNA_F
ClientSampleId :

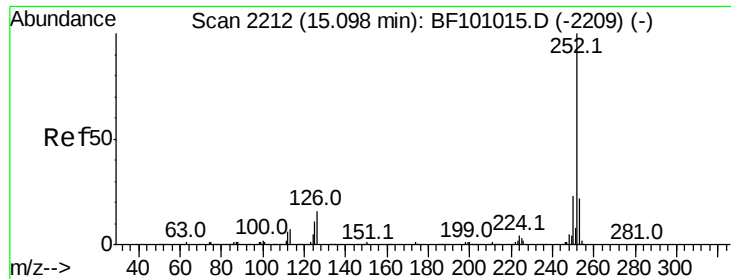
Tot Ion	Ratio	Lower	Upper
264	100		
260	21.7	19.2	28.8
265	20.9	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 41.549 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.00 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	9.5	9.0	13.6

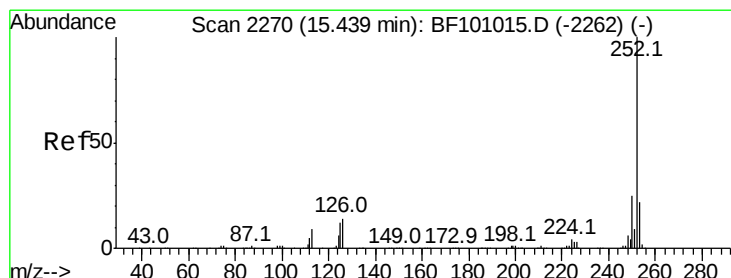
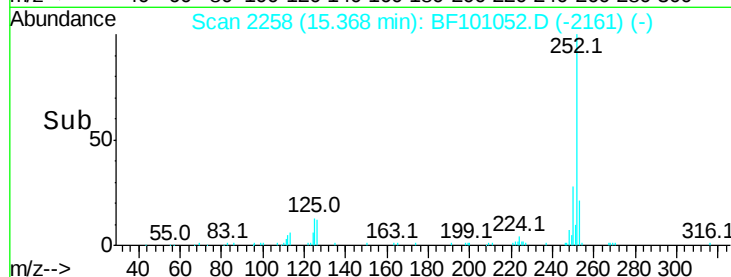
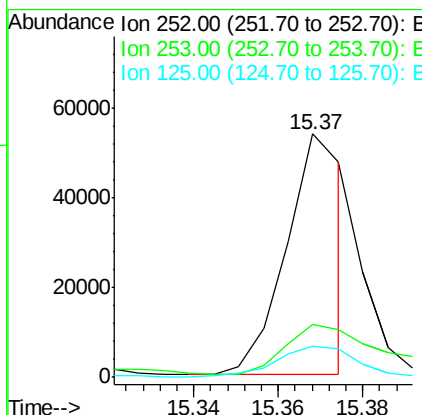
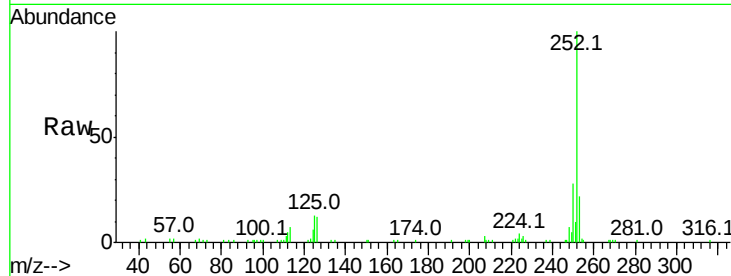




#88
Benzo(k)fluoranthene
Concen: 10.335 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.27 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

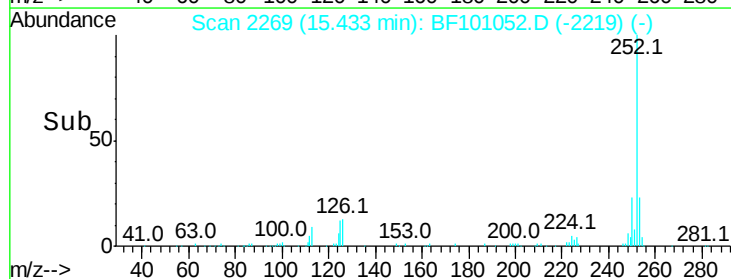
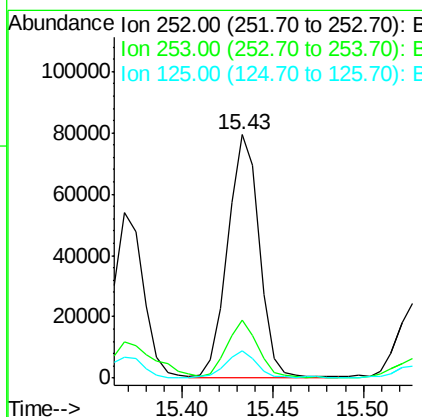
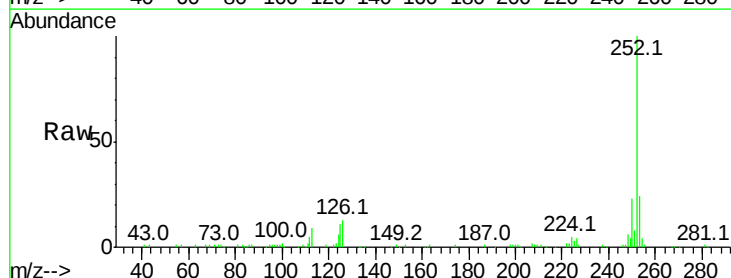
Instrument :
BNA_F
ClientSampleId :

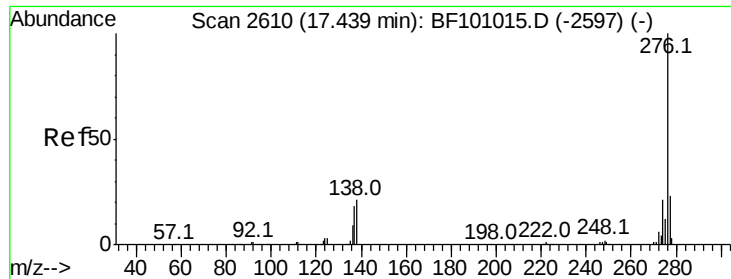
Tot Ion:252 Resp: 50333
Ion Ratio Lower Upper
252 100
253 21.7 17.9 26.9
125 12.9 10.2 15.2



#89
Benzo(a)pyrene
Concen: 21.567 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF101052.D
Acq: 1 Dec 2017 8:36

Tgt Ion:252 Resp: 96919
Ion Ratio Lower Upper
252 100
253 23.8 17.1 25.7
125 11.5 9.8 14.6

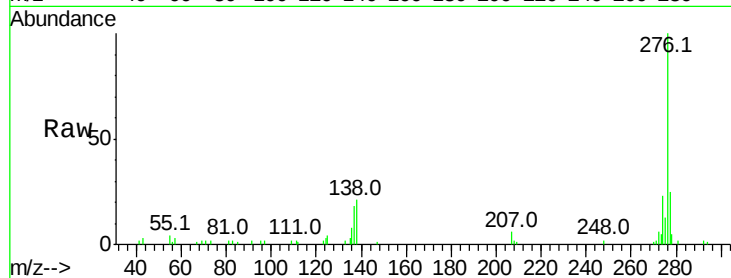




#91
 Benzo(a,h,i)perylene
 Concen: 13.671 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. -0.02 min
 Lab File: BF101052.D
 Acq: 1 Dec 2017 8:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 276 Resp: 51041
 Ion Ratio Lower Upper
 276 100
 277 25.2 17.9 26.9
 138 21.3 21.8 32.8#



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

