

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101156.D
 Acq On : 6 Dec 2017 8:57
 Operator : SJ/JU
 Sample : I6696-01DL 20X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 06 11:10:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	47552	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	183899	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	84701	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	150820	20.00	ng	0.00
75) Chrysene-d12	14.02	240	100869	20.00	ng	0.00
86) Perylene-d12	15.49	264	104649	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	14773	5.13	ng	0.00
7) Phenol-d6	6.47	99	18390	5.26	ng	0.00
23) Nitrobenzene-d5	7.41	82	10774	3.49	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	3577	3.52	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	26559	4.29	ng	-0.01
78) Terphenyl-d14	12.95	244	21047	4.56	ng	-0.01

Target Compounds

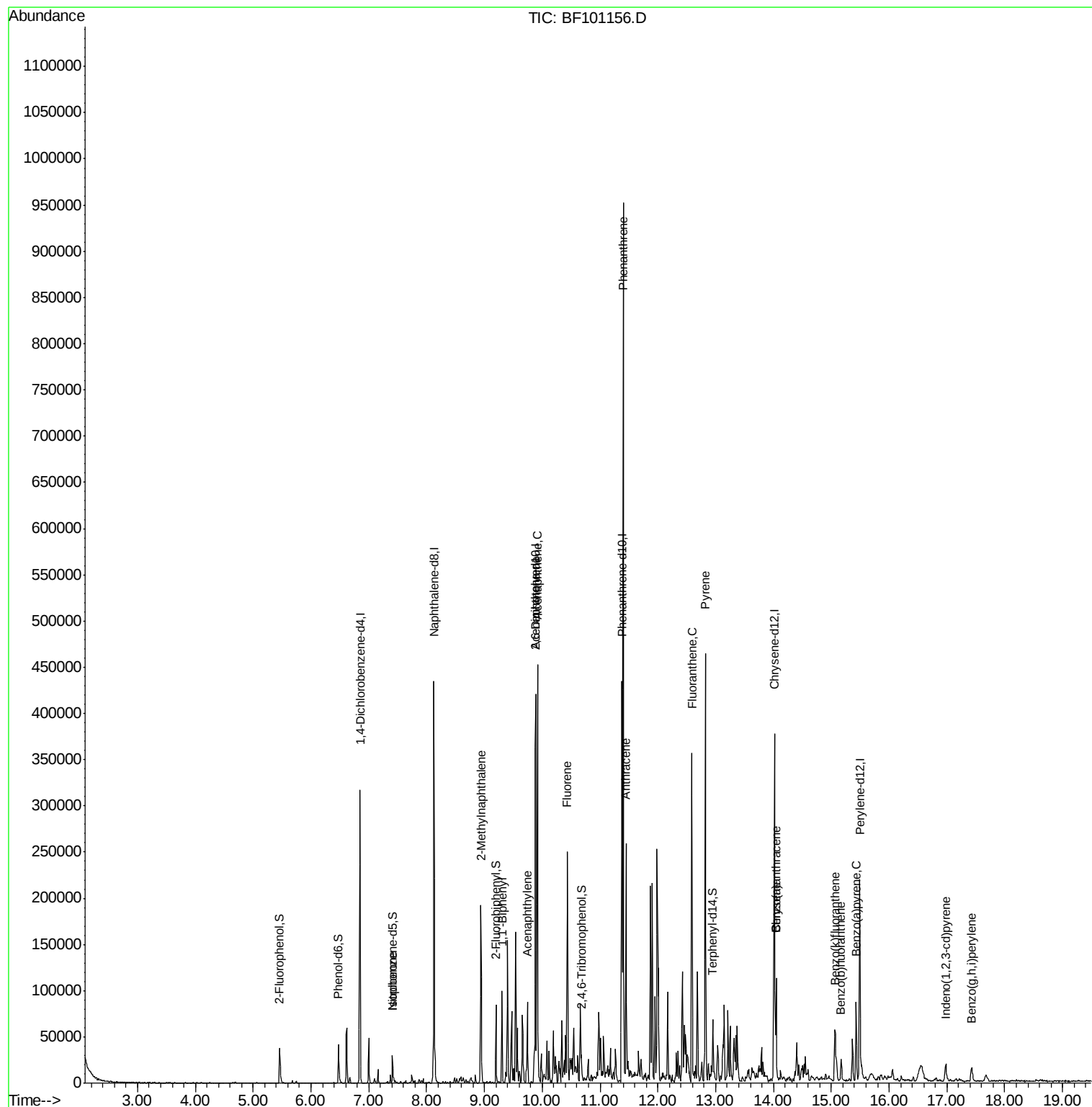
						Qvalue
25) Isophorone	7.41	82	10774	2.046	ng	# 64
37) 2-Methylnaphthalene	8.94	142	50515	8.203	ng	93
45) 1,1'-Biphenyl	9.30	154	31669	4.081	ng	92
48) Acenaphthylene	9.75	152	24497	2.705	ng	# 93
50) 2,6-Dinitrotoluene	9.89	165	14676	10.201	ng	# 24
51) Acenaphthene	9.92	154	89893	16.575	ng	100
57) Fluorene	10.43	166	68049	10.711	ng	99
70) Phenanthrene	11.40	178	386498	46.535	ng	97
71) Anthracene	11.45	178	103398	12.301	ng	98
74) Fluoranthene	12.59	202	138366	15.029	ng	96
77) Pyrene	12.82	202	194375	27.926	ng	97
80) Benzo(a)anthracene	14.05	228	48425	7.604	ng	99
82) Chrysene	14.05	228	48425	8.187	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	14847	2.823	ng	# 88
87) Benzo(b)fluoranthene	15.17	252	16165	2.579	ng	94
88) Benzo(k)fluoranthene	15.06	252	49263	7.977	ng	98
89) Benzo(a)pyrene	15.43	252	47028	8.253	ng	100
91) Benzo(g,h,i)perylene	17.43	276	16645	3.516	ng	# 87

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

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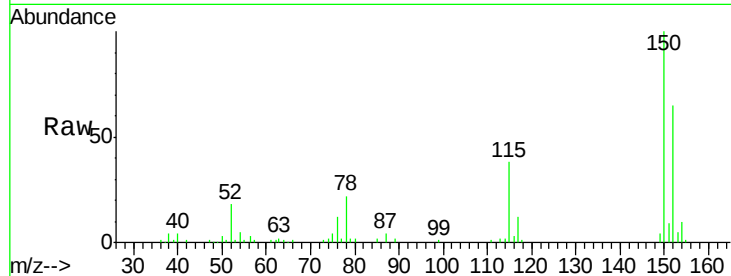


#1

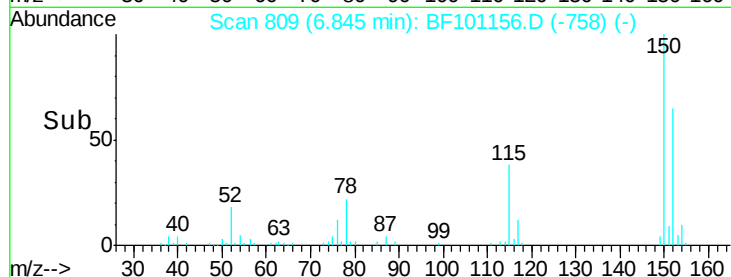
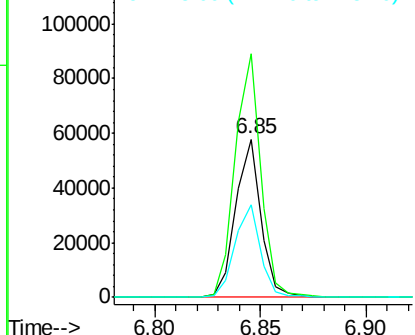
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 47552
Ion Ratio Lower Upper
152 100
150 154.3 124.6 186.8
115 58.5 50.1 75.1



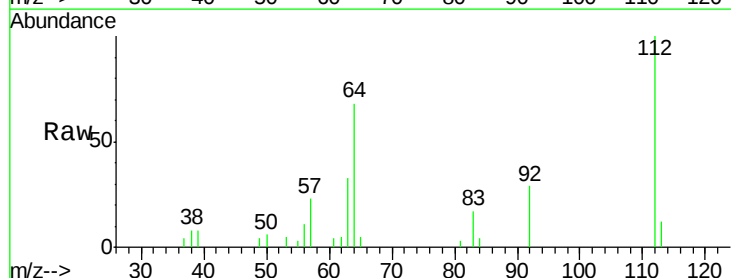
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



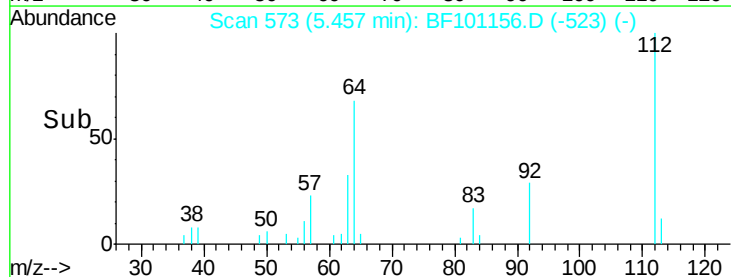
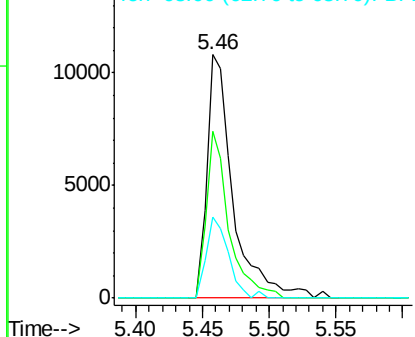
#5

2-Fluorophenol
Concen: 5.134 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion:112 Resp: 14773
Ion Ratio Lower Upper
112 100
64 68.3 47.9 71.9
63 33.1 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: 5.264 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampleId :

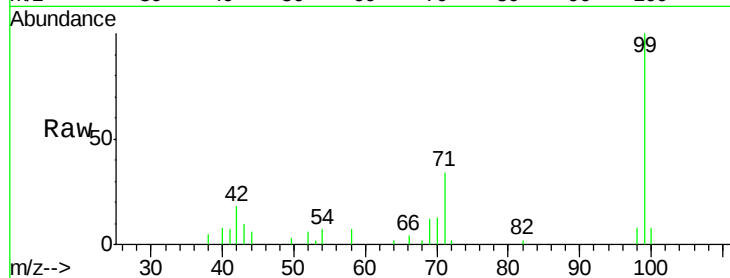
Tot Ion: 99 Resp: 18390

Ion Ratio Lower Upper

99 100

42 18.5 14.5 21.7

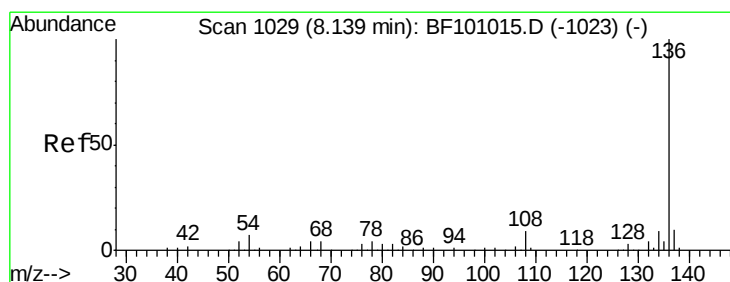
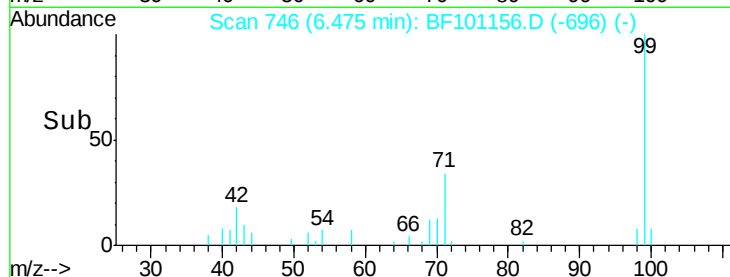
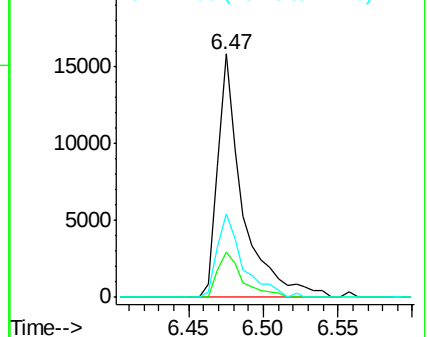
71 34.4 25.4 38.0



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# 1027

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Tgt Ion: 136 Resp: 183899

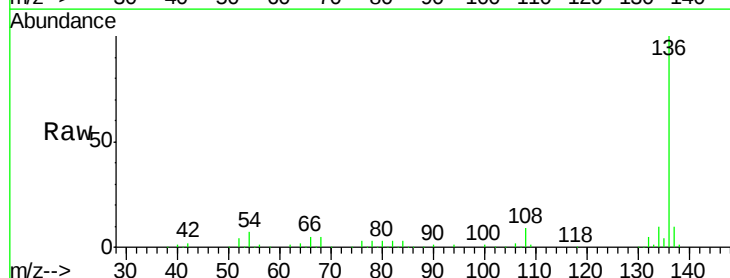
Ion Ratio Lower Upper

136 100

137 10.3 8.9 13.3

54 7.3 6.6 9.8

68 5.0 5.0 7.4

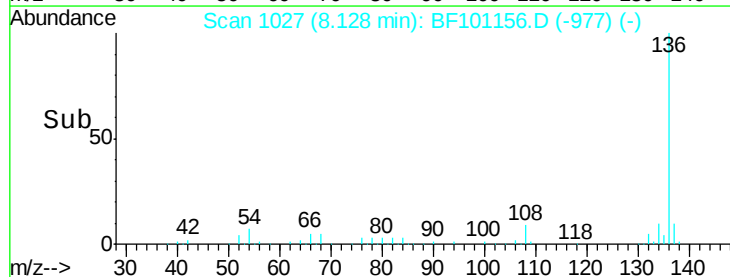
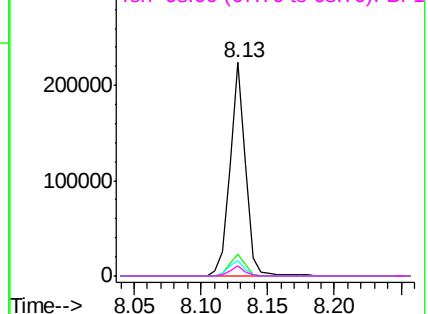


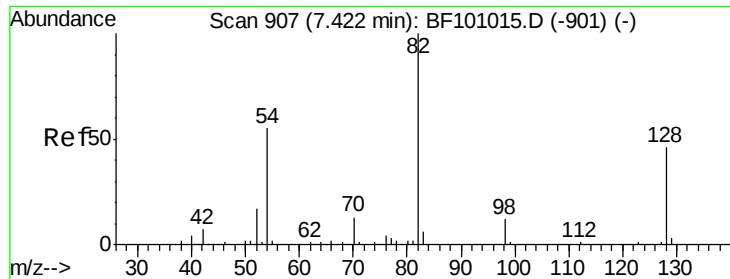
Abundance Ion 136.00 (135.70 to 136.70): E

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

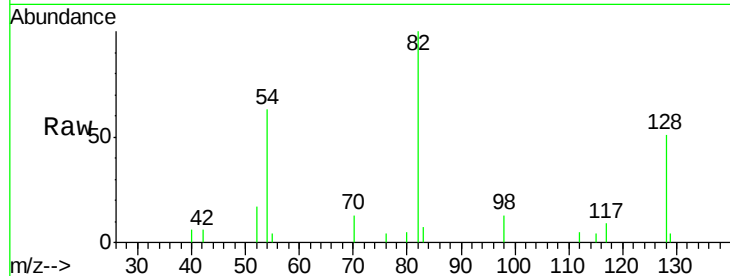




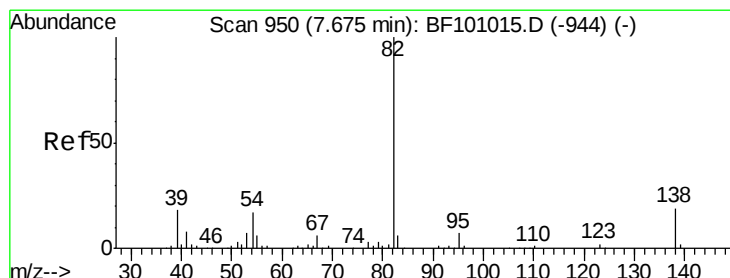
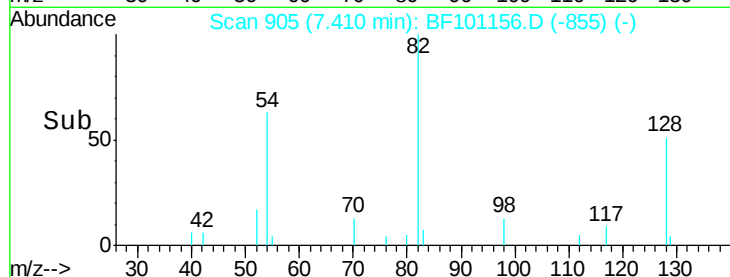
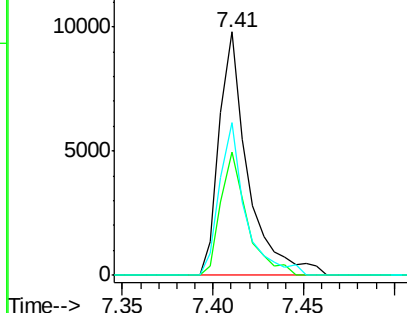
#23
Nitrobenzene-d5
Concen: 3.495 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 10774
Ion Ratio Lower Upper
82 100
128 50.6 36.1 54.1
54 62.6 41.4 62.2#

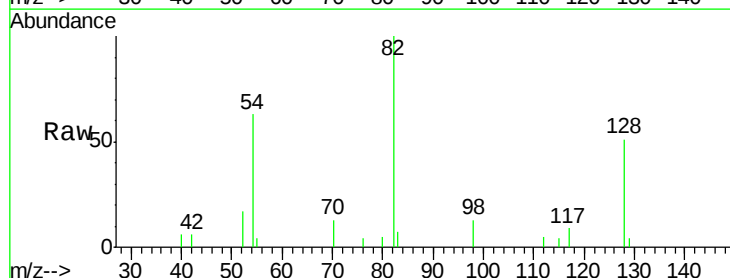


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

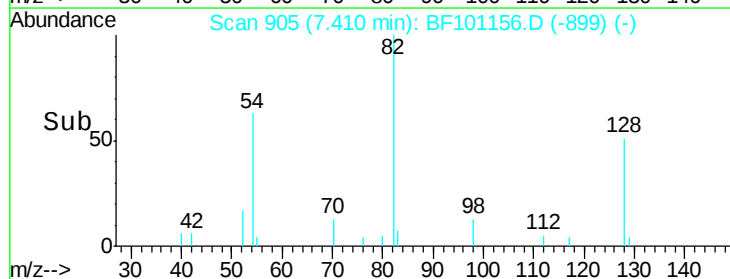
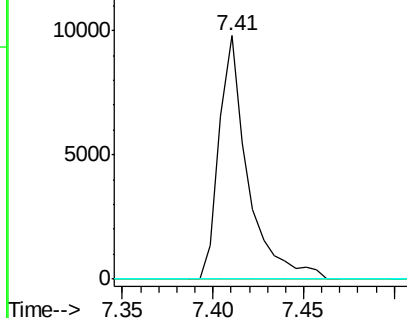


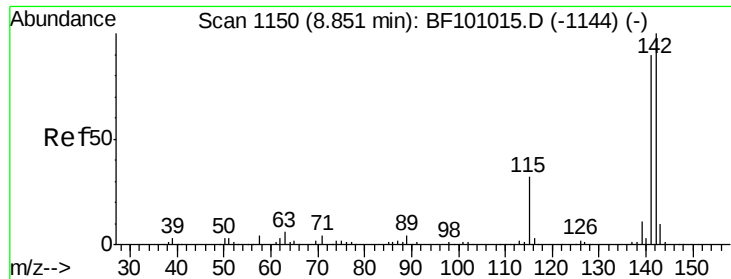
#25
Isophorone
Concen: 2.046 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.26 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion: 82 Resp: 10774
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#



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

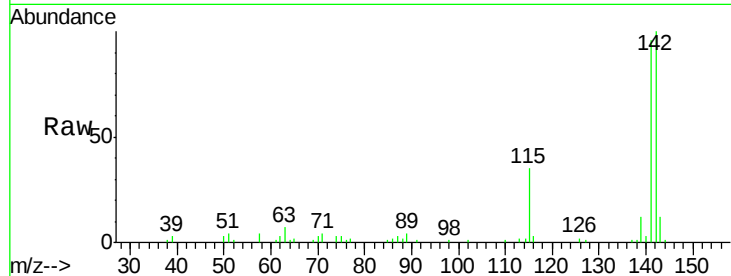




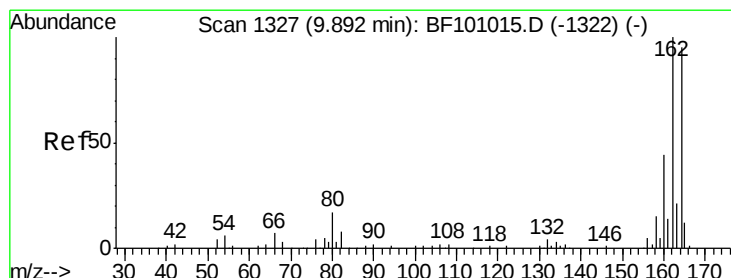
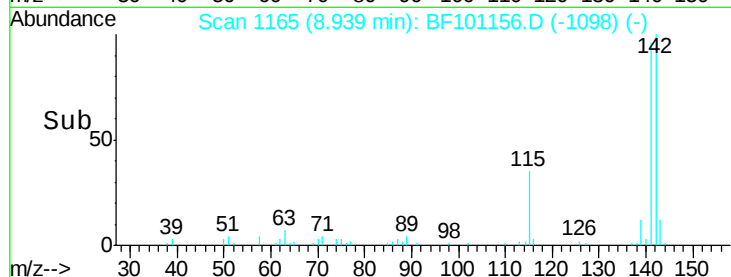
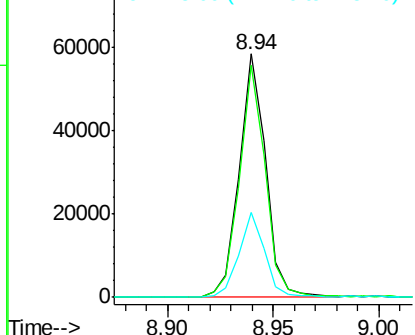
#37
2-Methylnaphthalene
Concen: 8.203 ng
RT: 8.94 min Scan# 1165
Delta R.T. 0.09 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.5	70.8	106.2
115	35.0	26.1	39.1

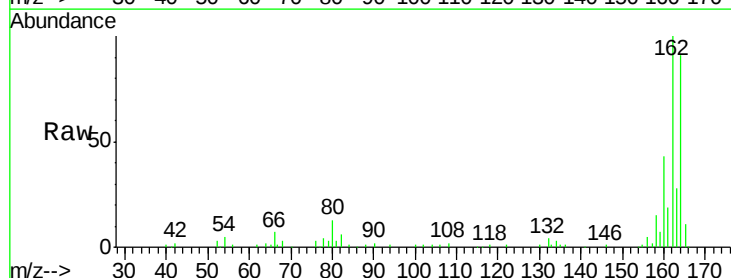


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

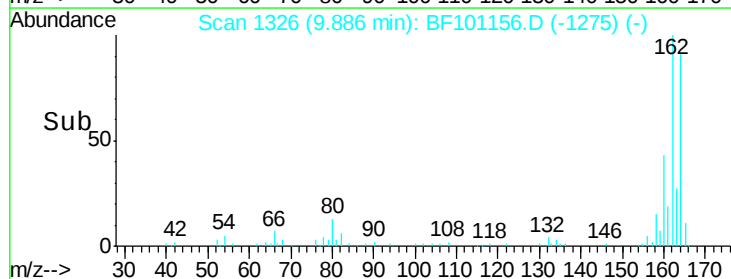
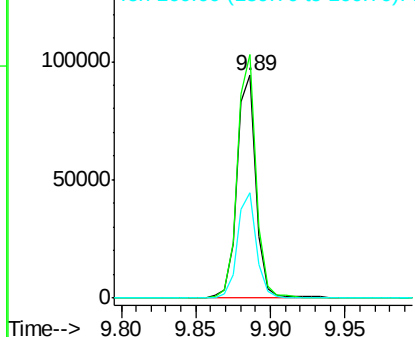


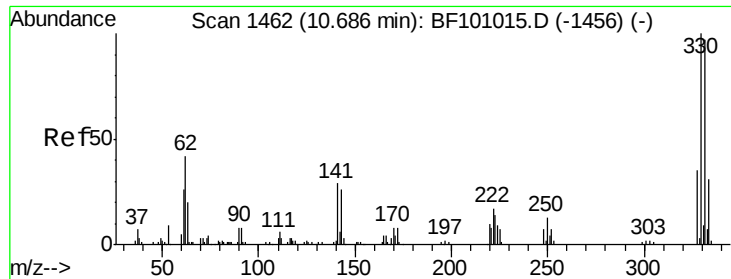
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	109.3	86.1	129.1
160	47.3	38.3	57.5



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





#41

2,4,6-Tribromophenol

Concen: 3.515 ng

RT: 10.67 min Scan# 1460

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampled :

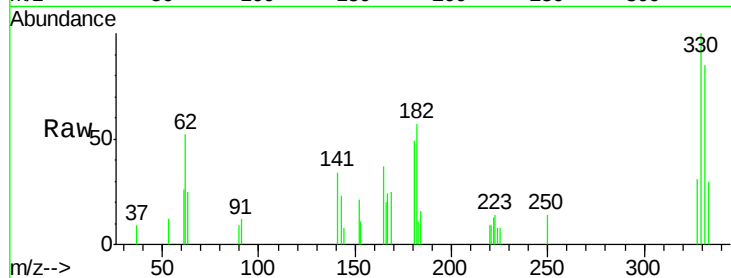
Tot Ion:330 Resp: 3577

Ion Ratio Lower Upper

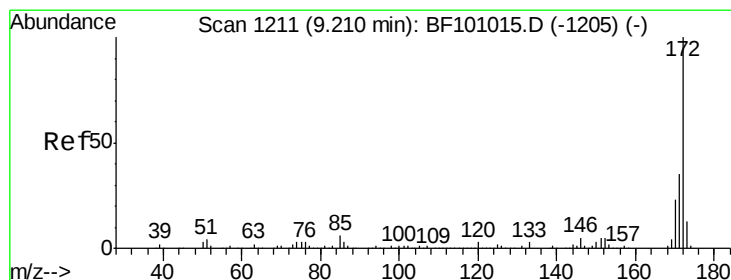
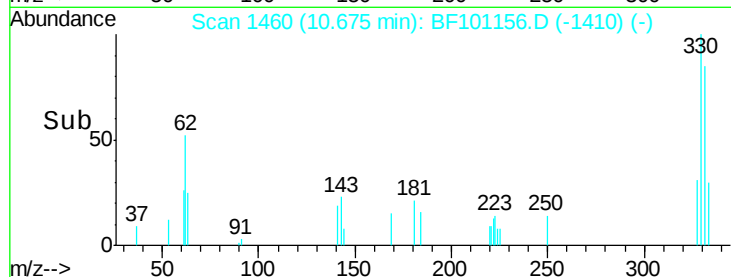
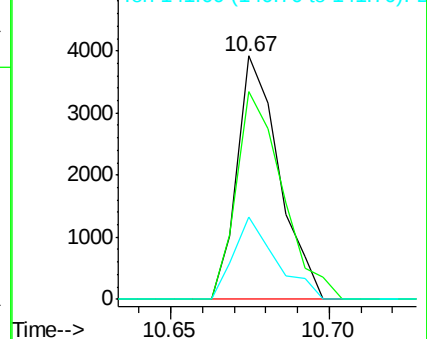
330 100

332 94.0 77.0 115.6

141 34.0 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: 4.290 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

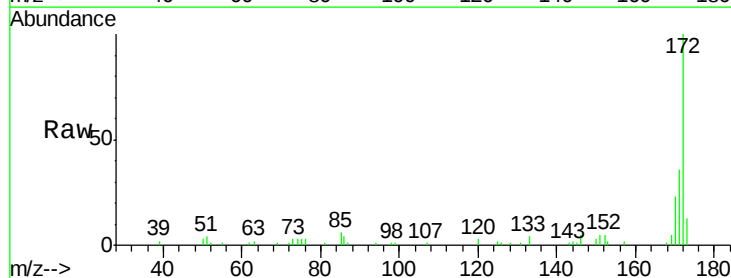
Tgt Ion:172 Resp: 26559

Ion Ratio Lower Upper

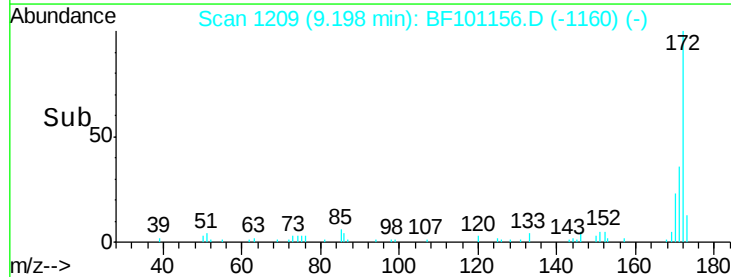
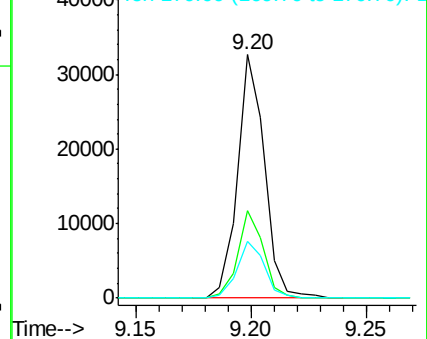
172 100

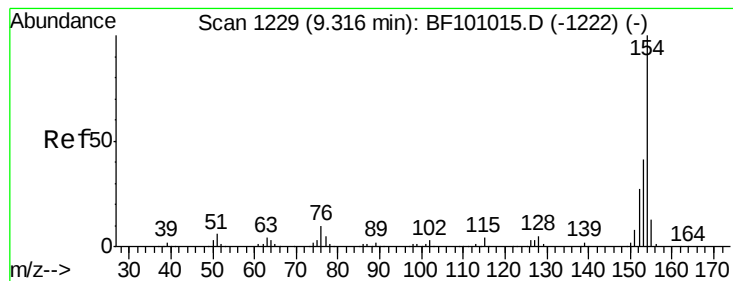
171 36.1 29.7 44.5

170 23.3 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





#45

1,1'-Biphenyl

Concen: 4.081 ng

RT: 9.30 min Scan# 1227

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampleId :

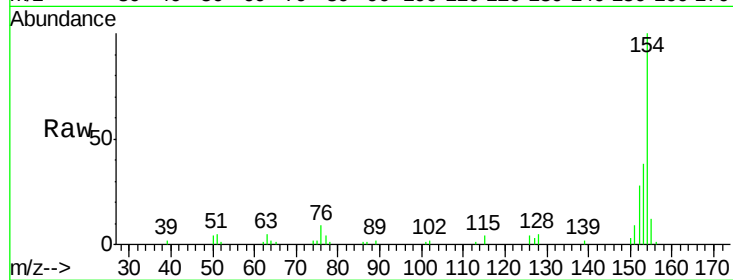
Tot Ion:154 Resp: 31669

Ion Ratio Lower Upper

154 100

153 37.7 21.3 61.3

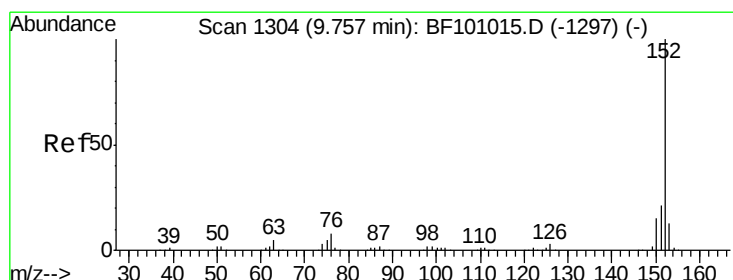
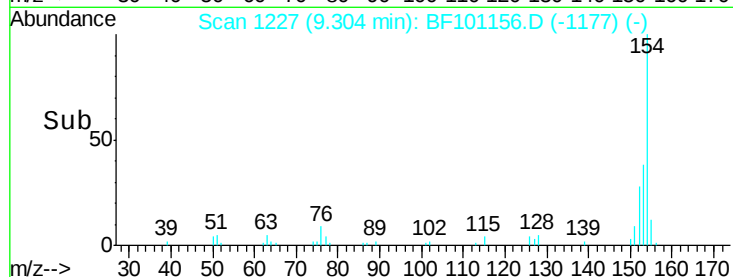
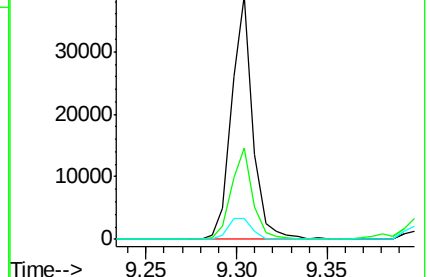
76 8.7 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 2.705 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

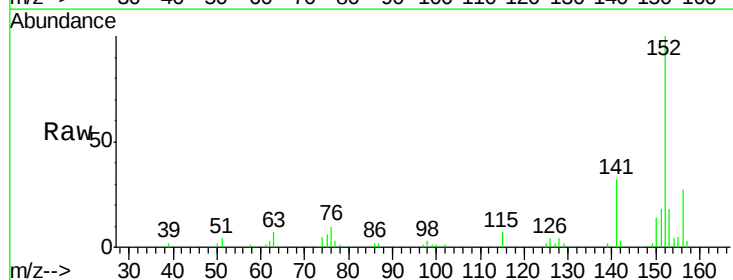
Tgt Ion:152 Resp: 24497

Ion Ratio Lower Upper

152 100

151 18.2 16.3 24.5

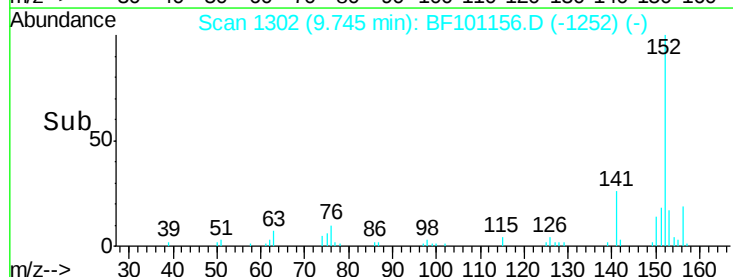
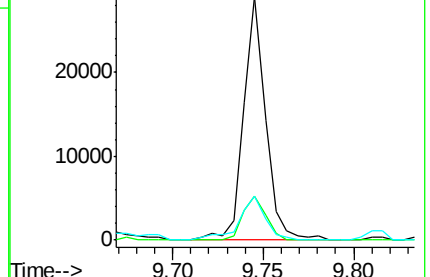
153 18.1 10.7 16.1#

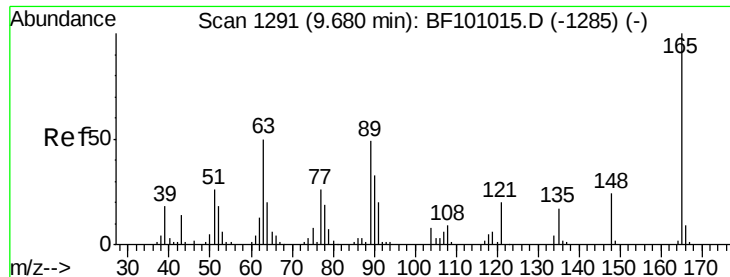


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

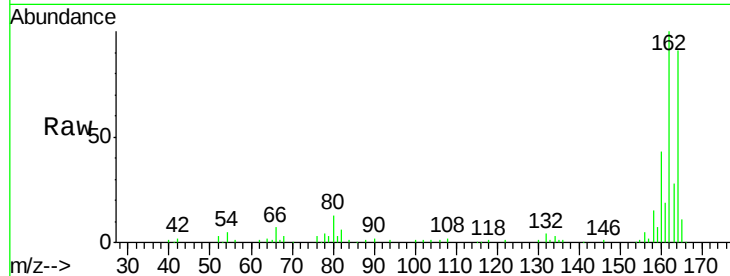




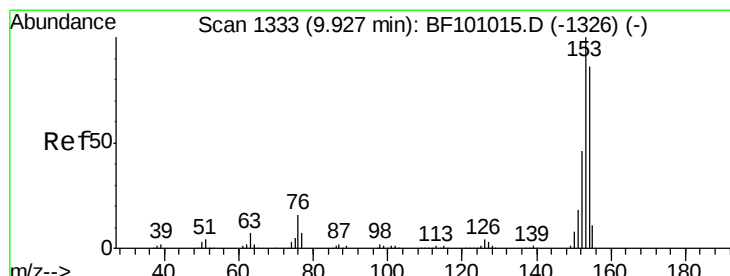
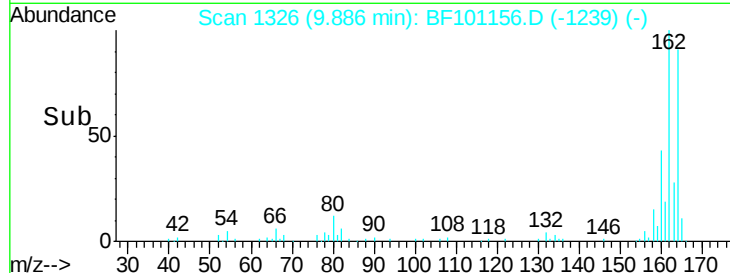
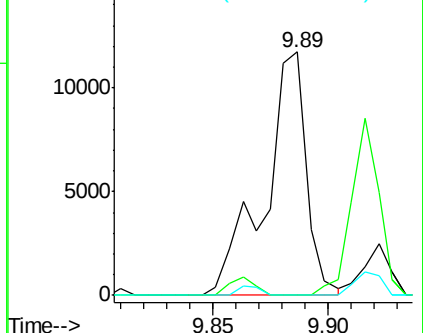
#50
2,6-Dinitrotoluene
Concen: 10.201 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.21 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 14676
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#

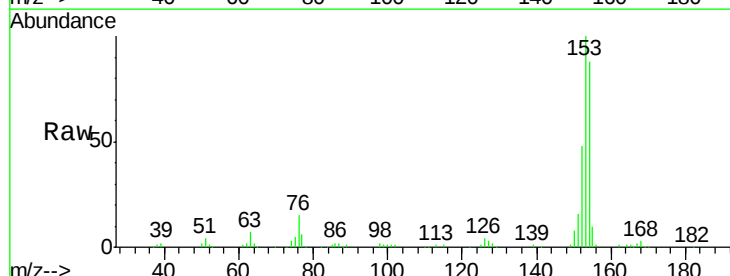


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

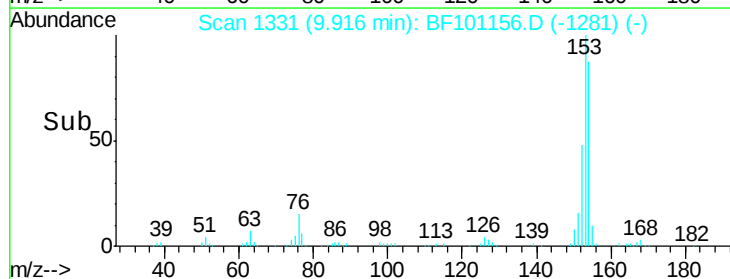
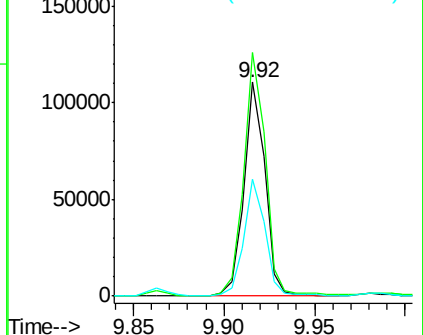


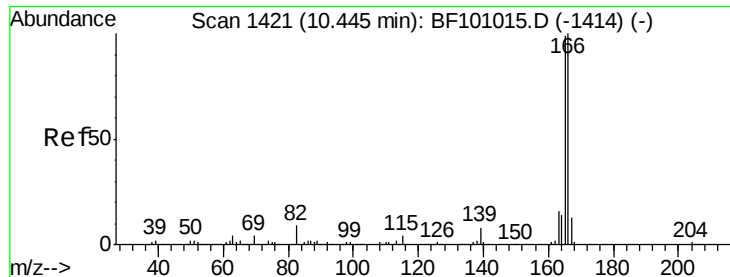
#51
Acenaphthene
Concen: 16.575 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion:154 Resp: 89893
Ion Ratio Lower Upper
154 100
153 113.9 91.2 136.8
152 55.0 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

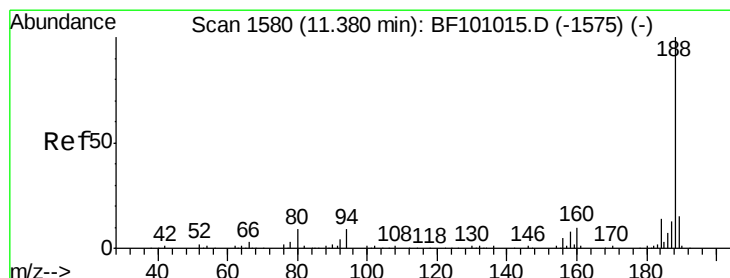
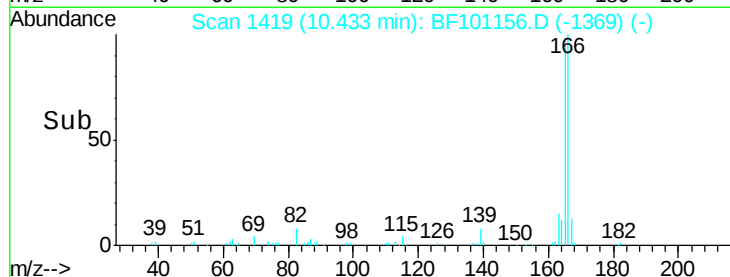
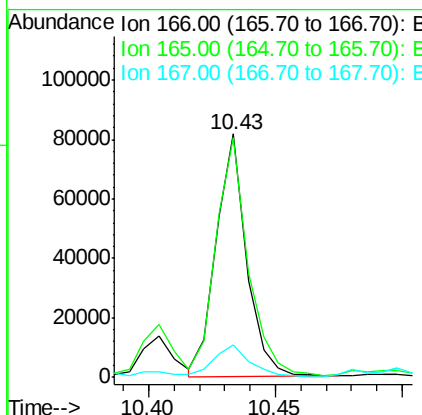
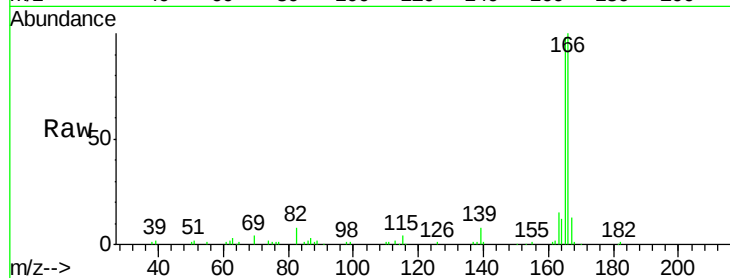




#57
 Fluorene
 Concen: 10.711 ng
 RT: 10.43 min Scan# 1419
 Delta R.T. -0.01 min
 Lab File: BF101156.D
 Acq: 6 Dec 2017 8:57

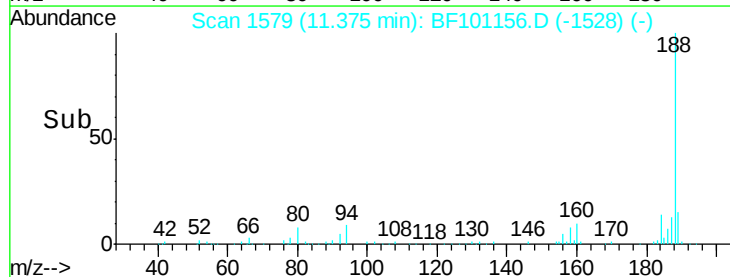
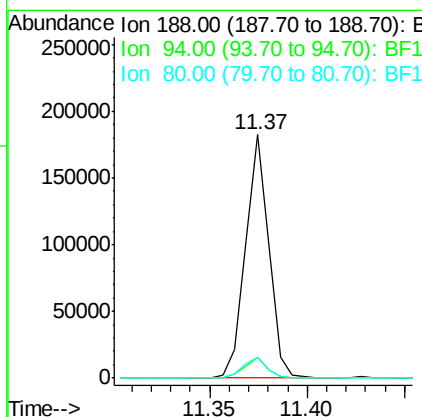
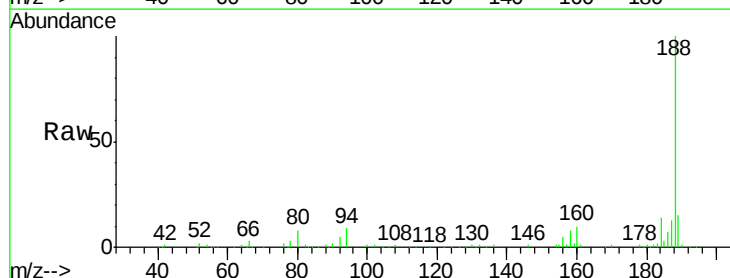
Instrument :
 BNA_F
 ClientSampleId :

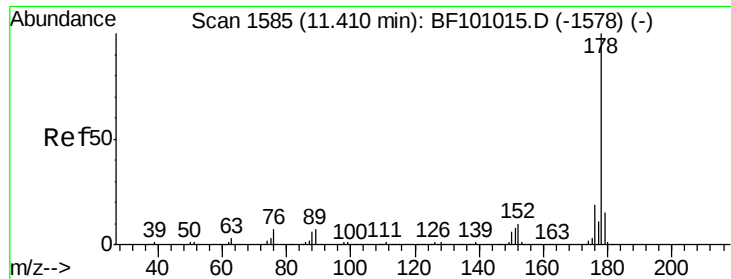
Tot Ion:166 Resp: 68049
 Ion Ratio Lower Upper
 166 100
 165 98.4 79.8 119.8
 167 13.4 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: BF101156.D
 Acq: 6 Dec 2017 8:57

Tgt Ion:188 Resp: 150820
 Ion Ratio Lower Upper
 188 100
 94 8.5 8.5 12.7
 80 8.4 9.2 13.8#

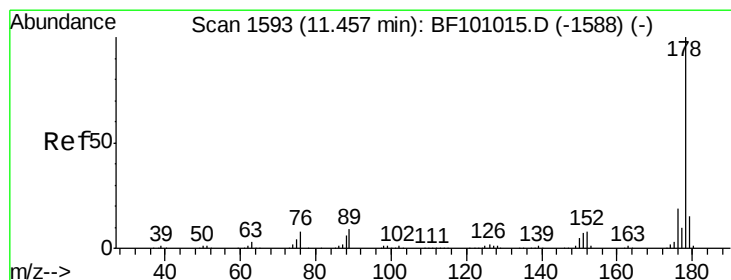
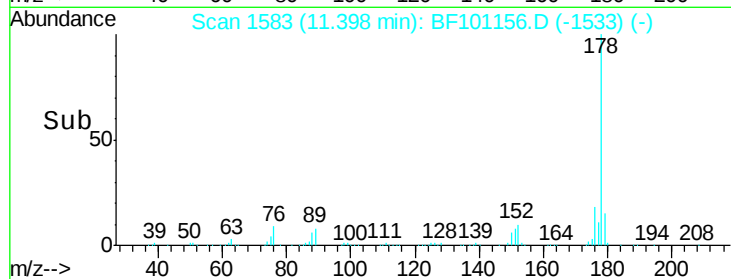
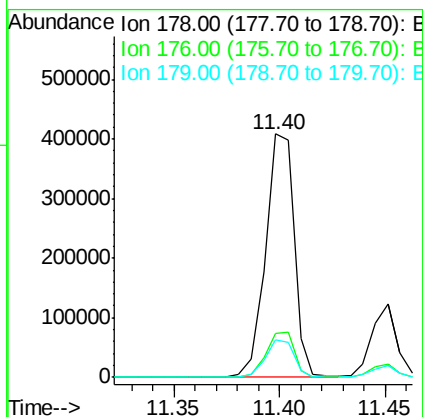
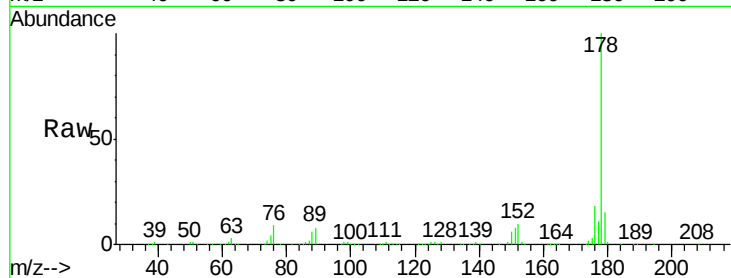




#70
Phenanthrene
Concen: 46.535 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

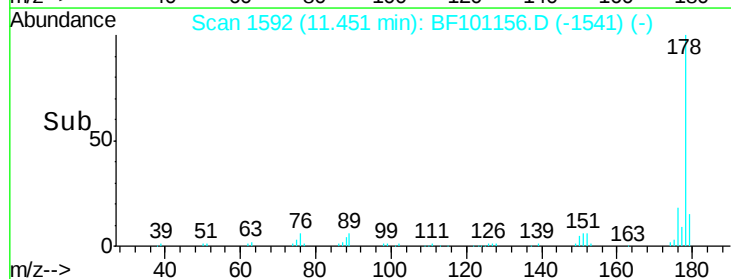
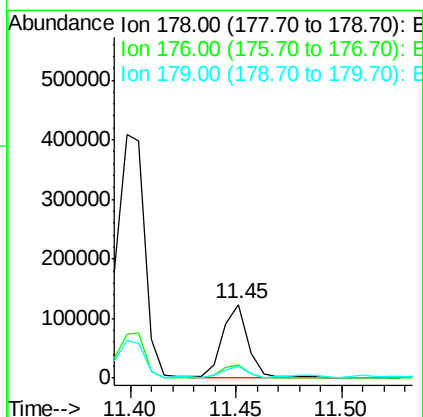
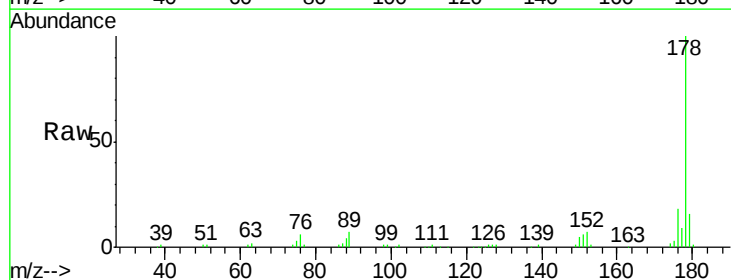
Instrument :
BNA_F
ClientSampled :

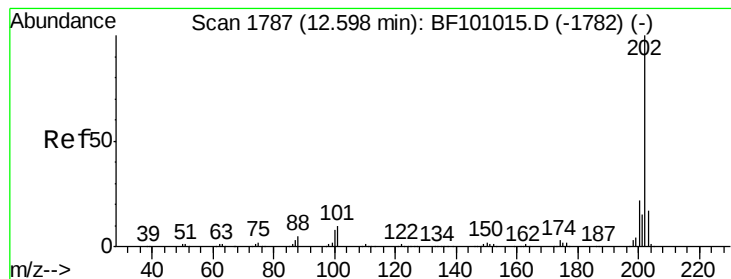
Tot Ion:178 Resp: 386498
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.8
179 15.4 13.0 19.6



#71
Anthracene
Concen: 12.301 ng
RT: 11.45 min Scan# 1592
Delta R.T. 0.00 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion:178 Resp: 103398
Ion Ratio Lower Upper
178 100
176 17.9 15.4 23.2
179 15.6 12.6 19.0





#74

Fluoranthene

Concen: 15.029 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampleId :

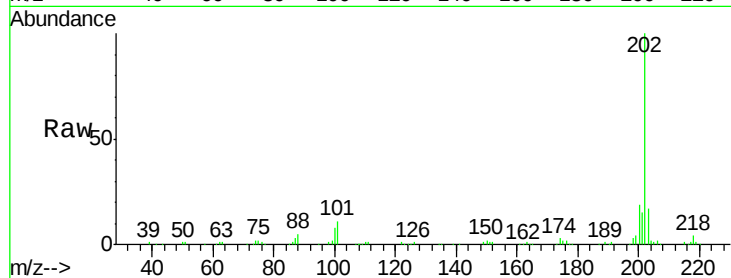
Tot Ion:202 Resp: 138366

Ion Ratio Lower Upper

202 100

101 11.0 0.0 34.1

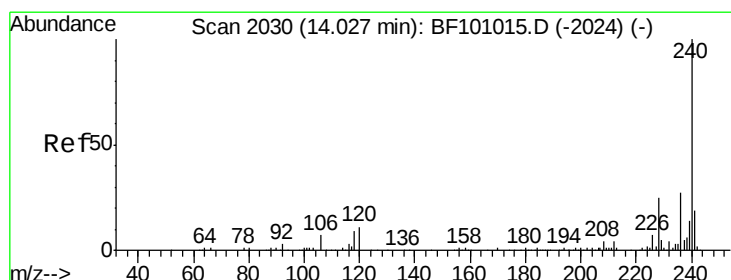
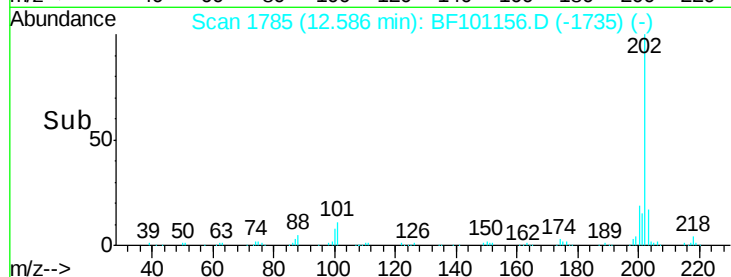
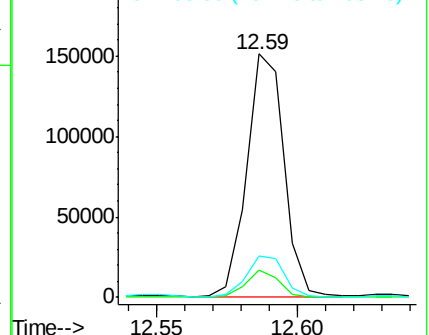
203 17.3 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

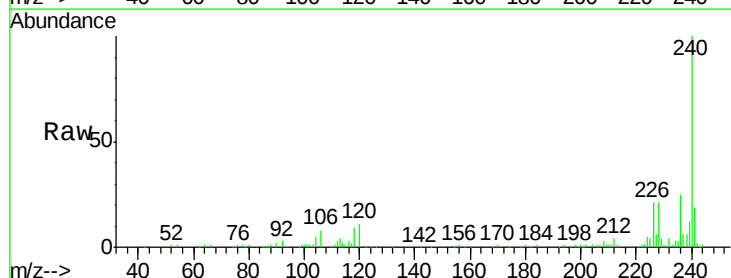
Tgt Ion:240 Resp: 100869

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

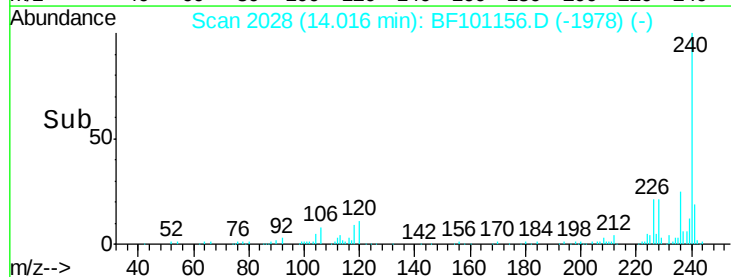
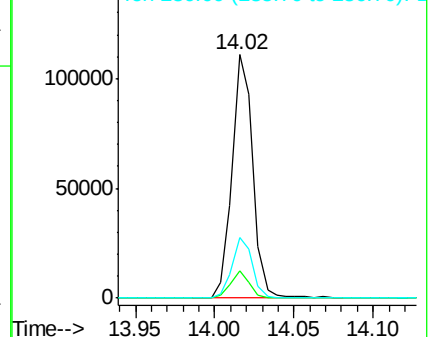
236 24.7 20.7 31.1

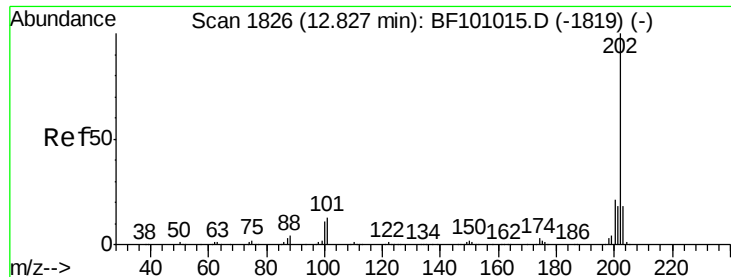


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.926 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampleId :

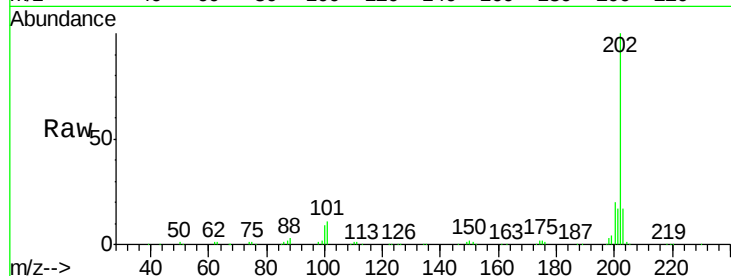
Tot Ion:202 Resp: 194375

Ion Ratio Lower Upper

202 100

200 20.4 17.4 26.2

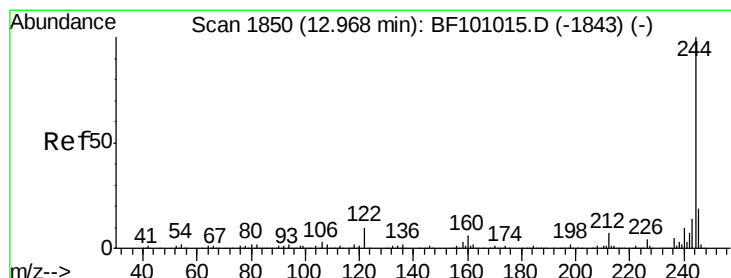
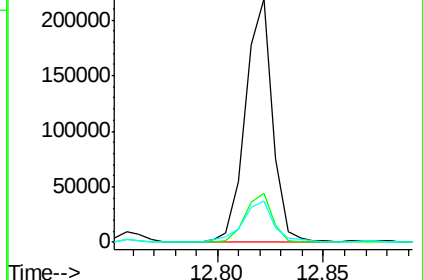
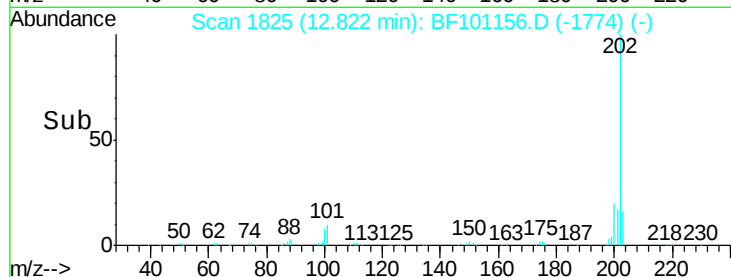
203 16.9 14.3 21.5



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: 4.564 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

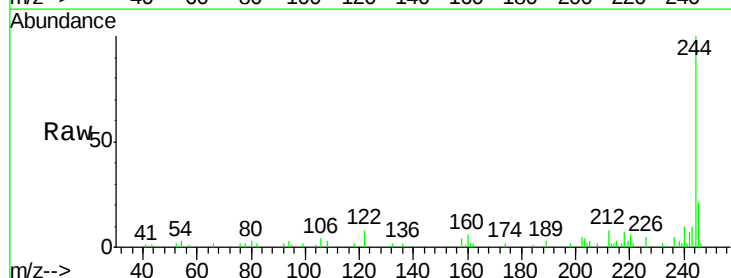
Tgt Ion:244 Resp: 21047

Ion Ratio Lower Upper

244 100

212 7.6 5.4 8.0

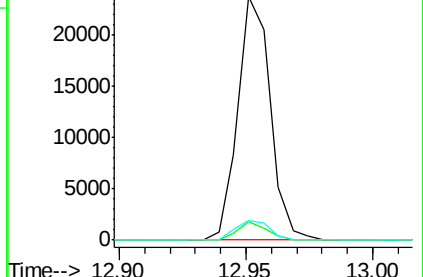
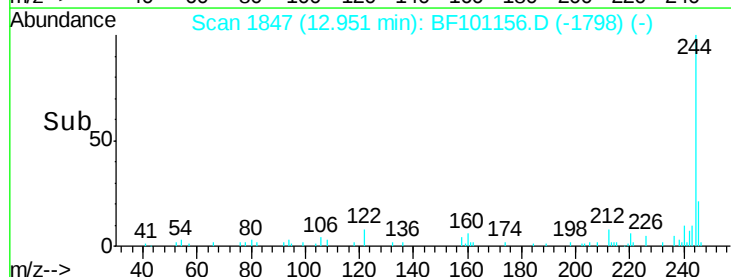
122 7.9 11.0 16.4#

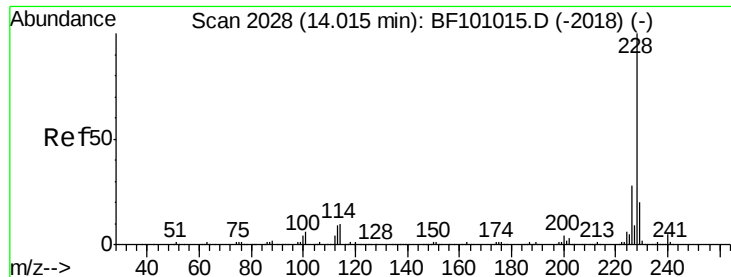


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 7.604 ng

RT: 14.05 min Scan# 2033

Delta R.T. 0.04 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampleId :

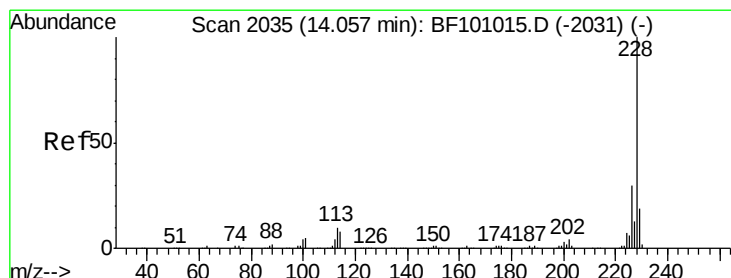
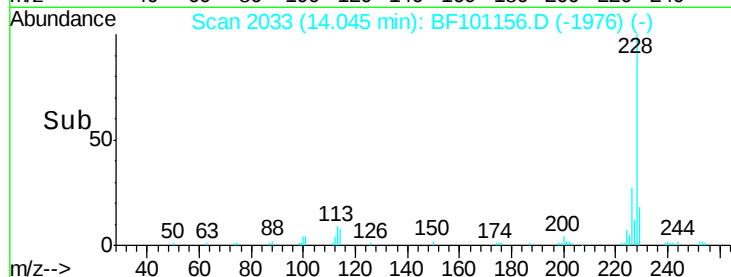
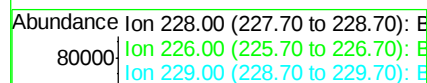
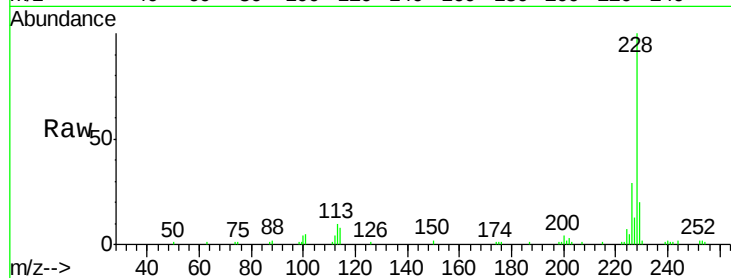
Tot Ion:228 Resp: 48425

Ion Ratio Lower Upper

228 100

226 28.7 22.6 33.8

229 20.4 15.8 23.6



#82

Chrysene

Concen: 8.187 ng

RT: 14.05 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

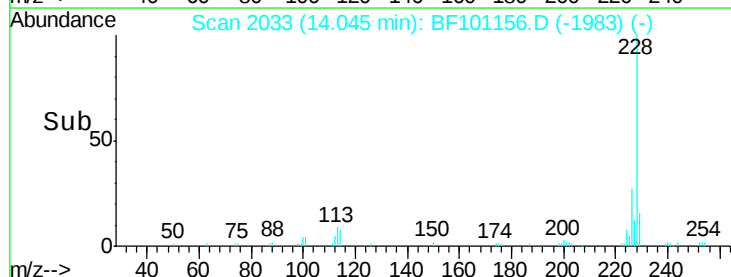
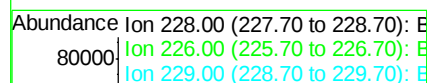
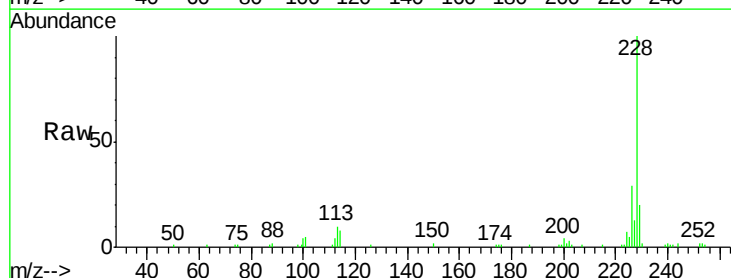
Tgt Ion:228 Resp: 48425

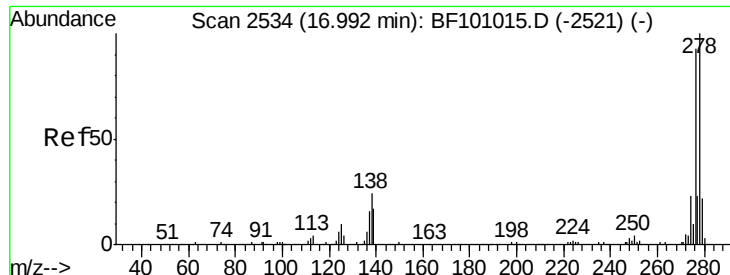
Ion Ratio Lower Upper

228 100

226 28.7 25.0 37.6

229 20.4 16.2 24.4

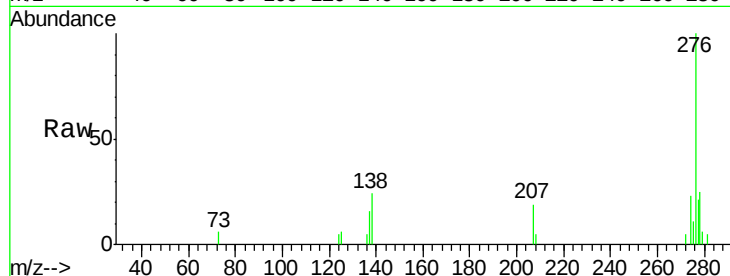




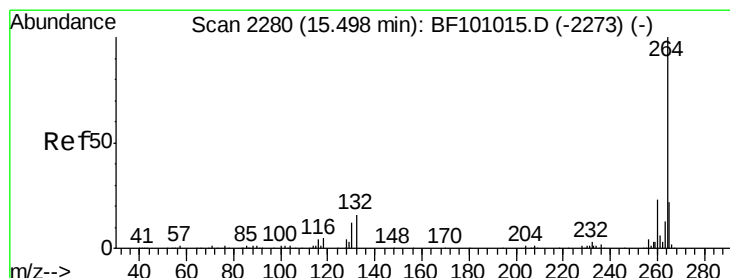
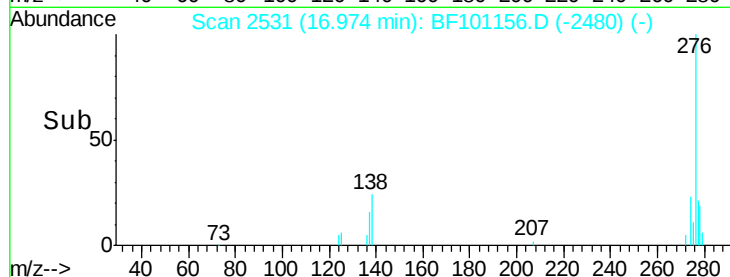
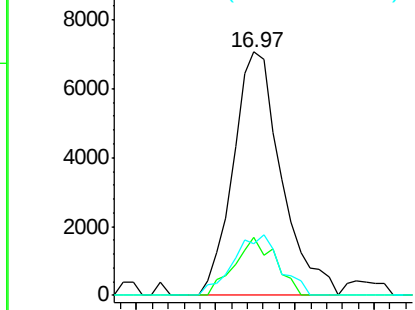
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.823 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: BF101156.D
 Acq: 6 Dec 2017 8:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 14847
 Ion Ratio Lower Upper
 276 100
 138 20.2 25.0 37.6#
 277 24.1 20.1 30.1

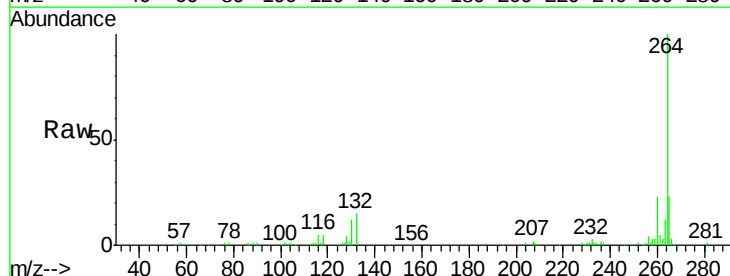


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

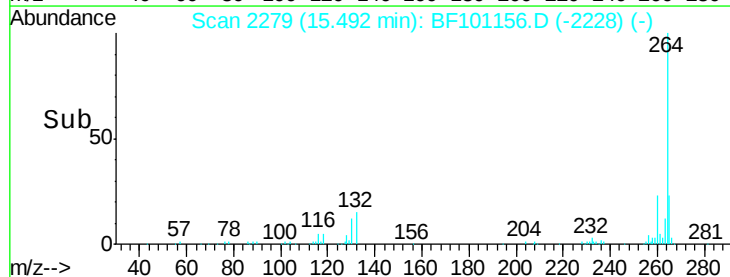
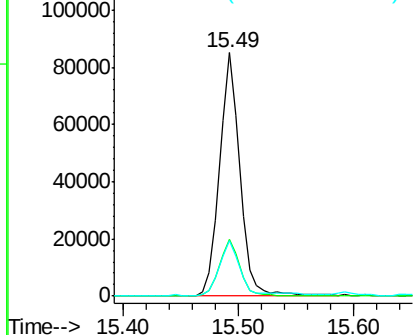


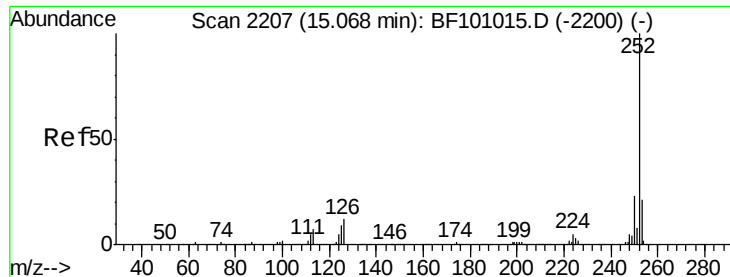
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BF101156.D
 Acq: 6 Dec 2017 8:57

Tgt Ion:264 Resp: 104649
 Ion Ratio Lower Upper
 264 100
 260 23.1 19.2 28.8
 265 23.0 17.5 26.3



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

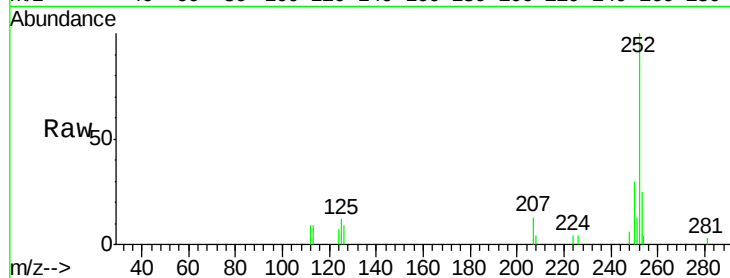




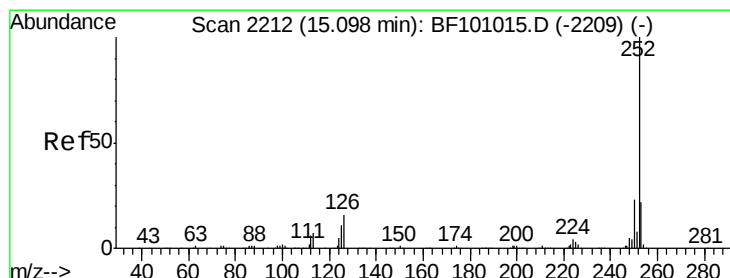
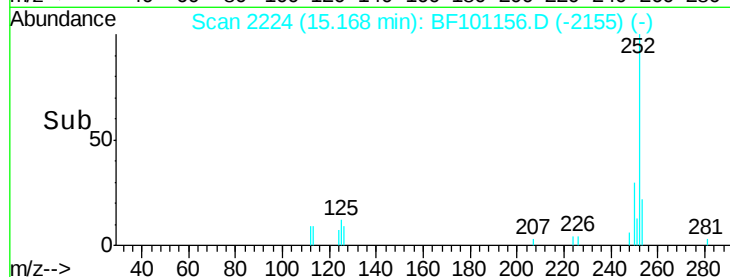
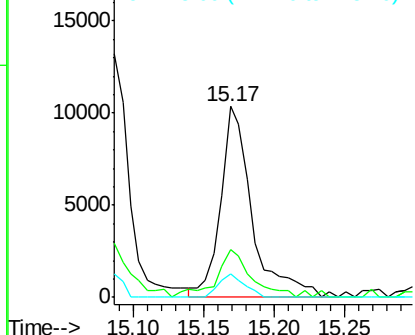
#87
Benzo(b)fluoranthene
Concen: 2.579 ng
RT: 15.17 min Scan# 2224
Delta R.T. 0.11 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.6
125	12.2	9.0	13.6

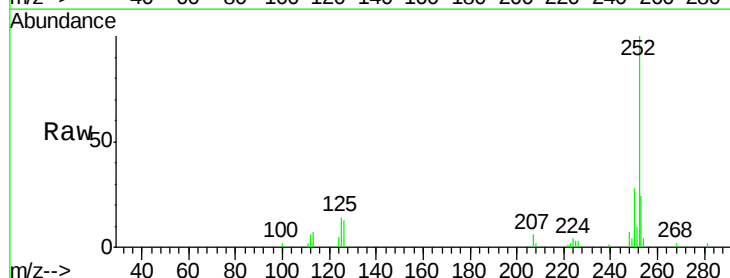


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

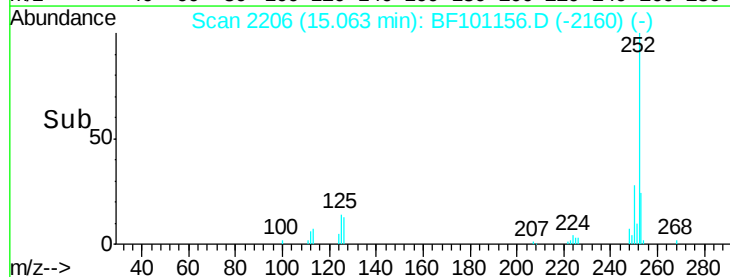
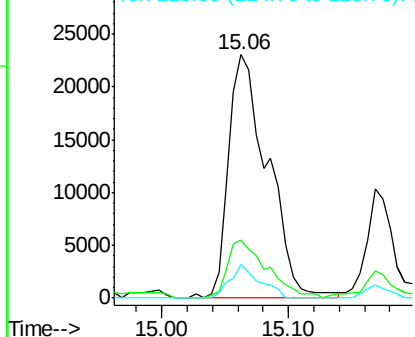


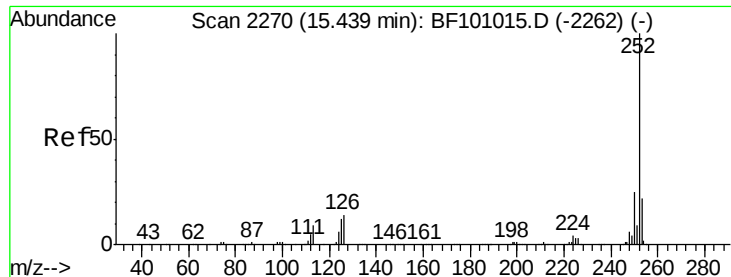
#88
Benzo(k)fluoranthene
Concen: 7.977 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF101156.D
Acq: 6 Dec 2017 8:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	13.7	10.2	15.2



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(a)pyrene

Concen: 8.253 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

Instrument :

BNA_F

ClientSampled :

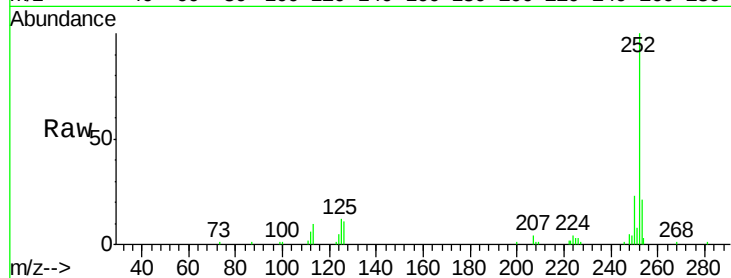
Tot Ion:252 Resp: 47028

Ion Ratio Lower Upper

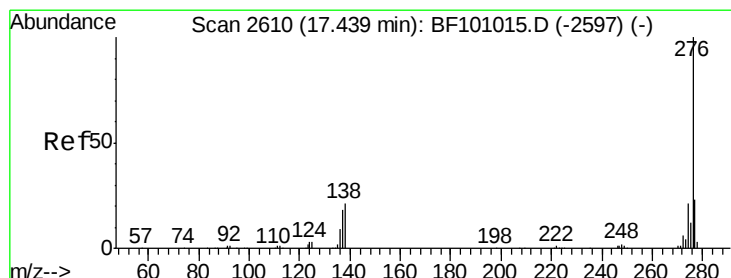
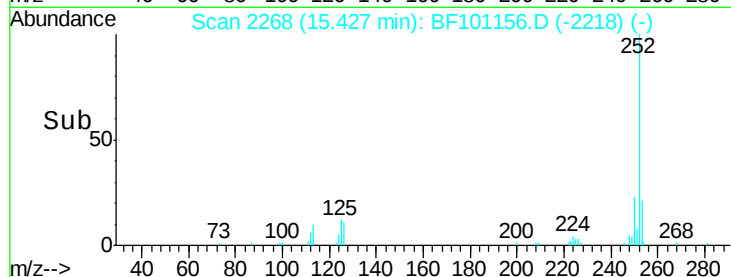
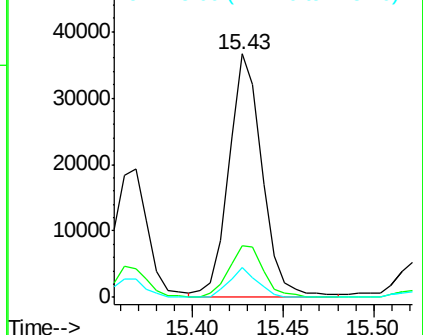
252 100

253 21.4 17.1 25.7

125 12.0 9.8 14.6



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

Benzo(g,h,i)perylene

Concen: 3.516 ng

RT: 17.43 min Scan# 2608

Delta R.T. 0.00 min

Lab File: BF101156.D

Acq: 6 Dec 2017 8:57

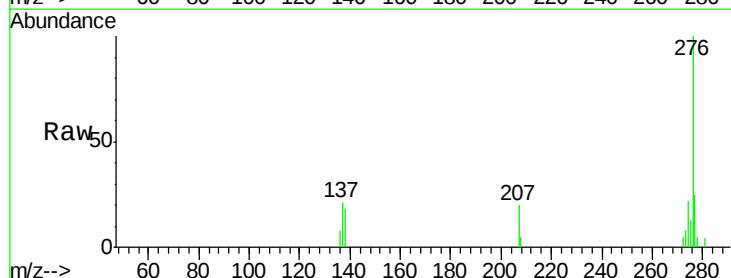
Tgt Ion:276 Resp: 16645

Ion Ratio Lower Upper

276 100

277 25.0 17.9 26.9

138 17.5 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

