

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\
 Data File : BF101003.D
 Acq On : 30 Nov 2017 3:55
 Operator : SJ/JU
 Sample : I6579-09DL 20X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 30 04:54:14 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 15:21:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	52339	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	181713	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	68667	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	117728	20.00	ng	0.00
75) Chrysene-d12	14.03	240	115757	20.00	ng	0.00
86) Perylene-d12	15.50	264	97553	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	15768	4.83	ng	-0.01
7) Phenol-d6	6.48	99	18847	4.68	ng	-0.01
23) Nitrobenzene-d5	7.41	82	10765	3.92	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	3395	4.85	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	21552	4.78	ng	-0.01
78) Terphenyl-d14	12.96	244	19102	3.79	ng	0.00

Target Compounds

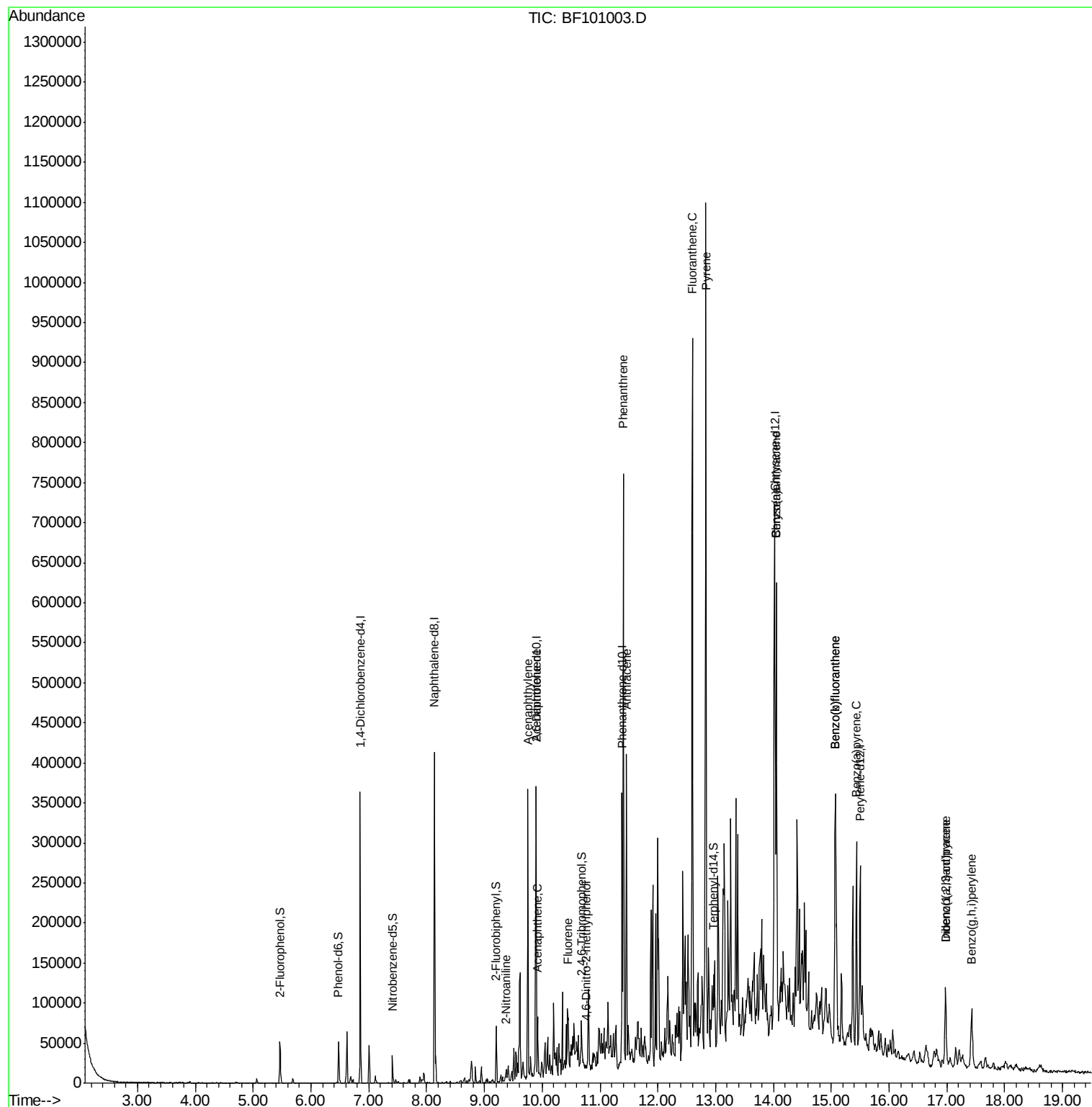
						Qvalue
47) 2-Nitroaniline	9.37	65	121	2.873	ng	# 2
48) Acenaphthylene	9.75	152	134473	18.833	ng	98
50) 2,6-Dinitrotoluene	9.89	165	9822	9.464	ng	# 24
51) Acenaphthene	9.92	154	14840	3.417	ng	93
57) Fluorene	10.44	166	32277	7.239	ng	# 98
64) 4,6-Dinitro-2-methylphenol	10.76	198	120	8.736	ng	# 35
70) Phenanthrene	11.40	178	256172	41.328	ng	98
71) Anthracene	11.46	178	142984	22.736	ng	97
74) Fluoranthene	12.60	202	321515	48.942	ng	96
77) Pyrene	12.83	202	450237	54.564	ng	99
80) Benzo(a)anthracene	14.05	228	208094	29.852	ng	97
82) Chrysene	14.05	228	208094	30.827	ng	99
85) Indeno(1,2,3-cd)pyrene	16.97	276	58565	10.726	ng	# 89
87) Benzo(b)fluoranthene	15.07	252	219058	37.903	ng	98
88) Benzo(k)fluoranthene	15.07	252	219058	40.115	ng	98
89) Benzo(a)pyrene	15.43	252	111825	21.825	ng	99
90) Dibenzo(a,h)anthracene	16.98	278	17927	4.278	ng	96
91) Benzo(g,h,i)perylene	17.43	276	60213	14.680	ng	# 91

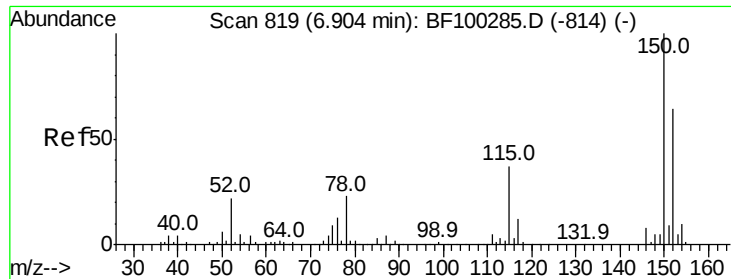
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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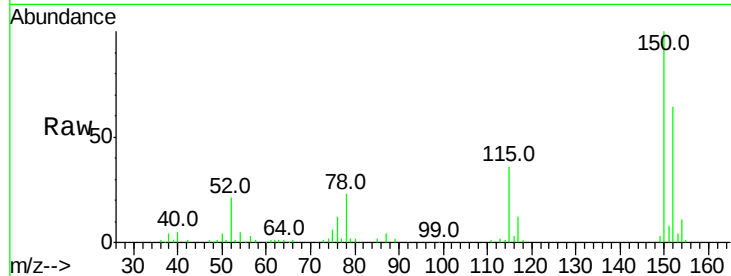


#1

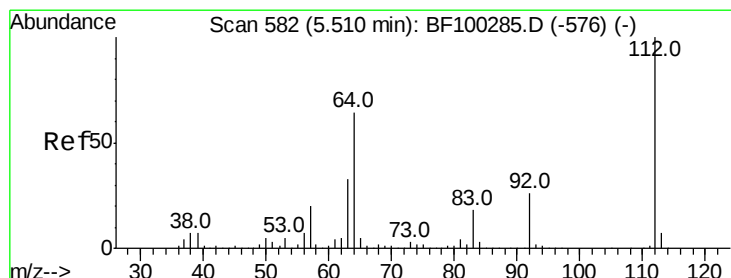
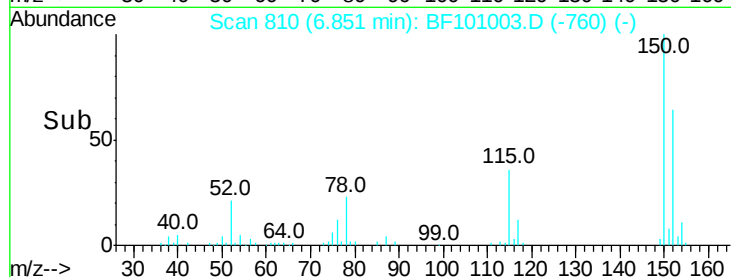
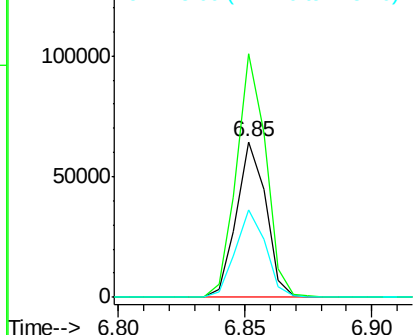
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 52339
Ion Ratio Lower Upper
152 100
150 156.3 124.6 186.8
115 56.0 50.1 75.1



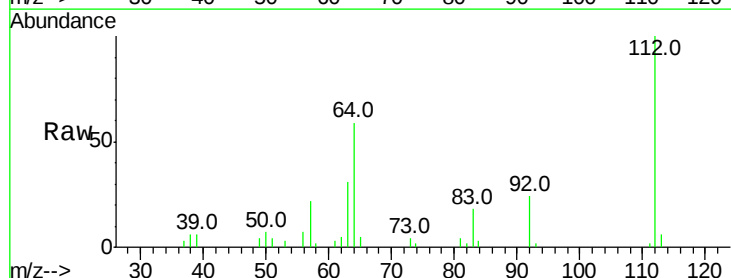
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



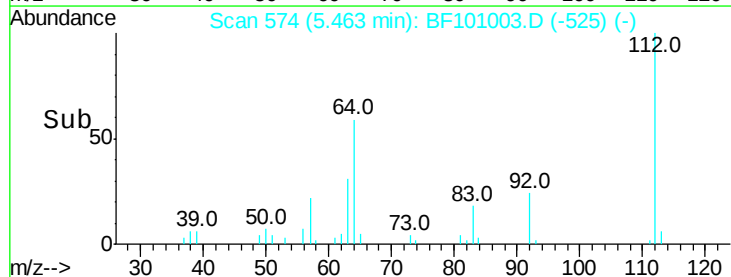
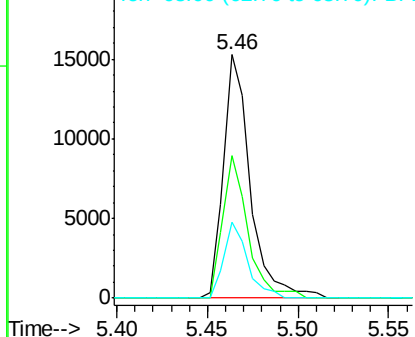
#5

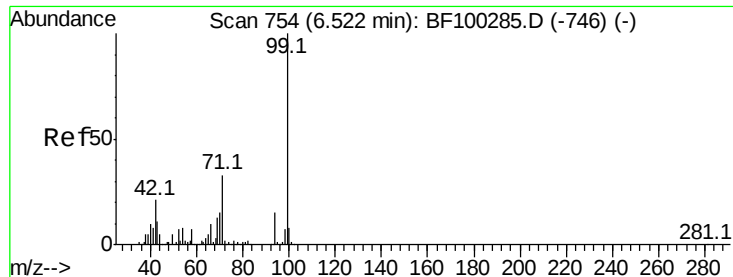
2-Fluorophenol
Concen: 4.829 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion:112 Resp: 15768
Ion Ratio Lower Upper
112 100
64 58.8 47.9 71.9
63 31.1 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: 4.681 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

ClientSampleId :

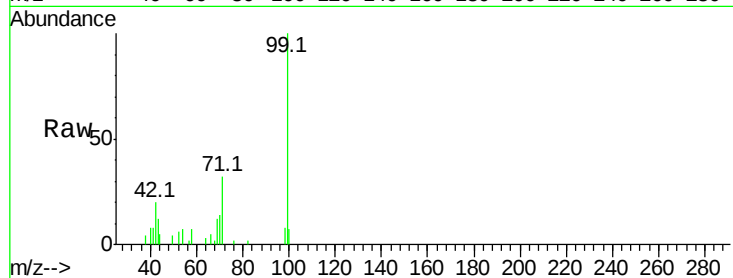
Tot Ion: 99 Resp: 18847

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

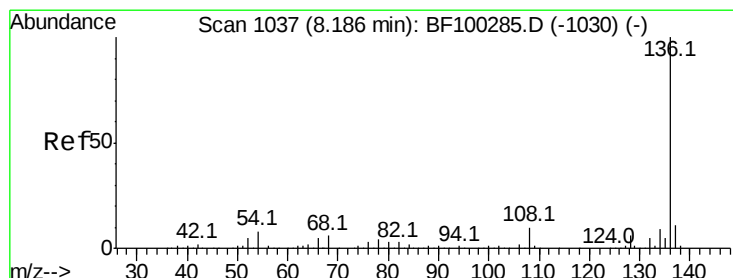
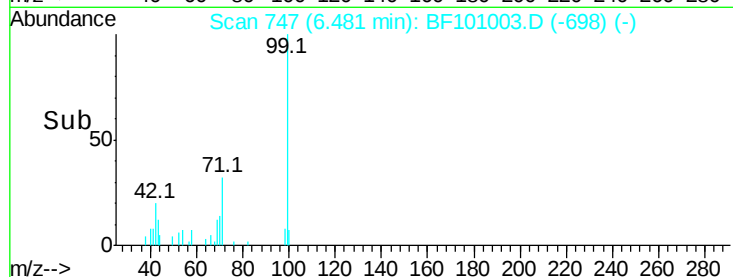
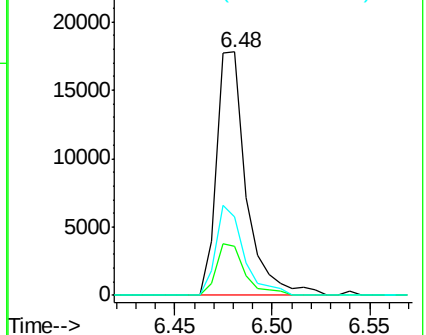
71 32.3 25.4 38.0



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: BF101003.D

Acq: 30 Nov 2017 3:55

Tgt Ion: 136 Resp: 181713

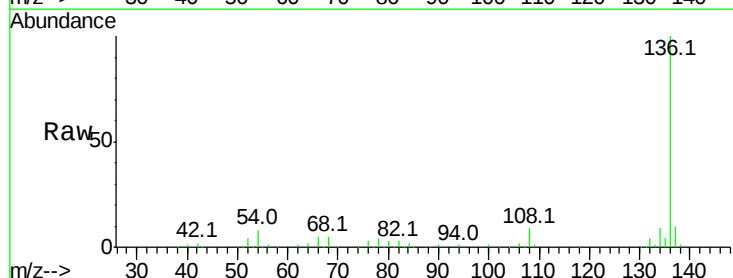
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 7.7 6.6 9.8

68 4.9 5.0 7.4#

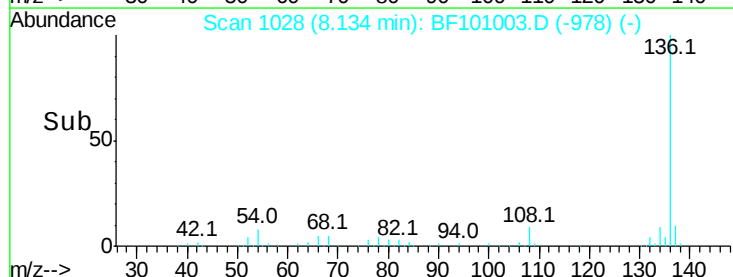
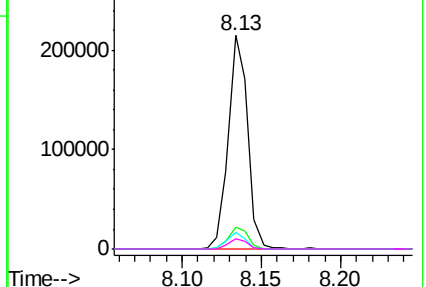


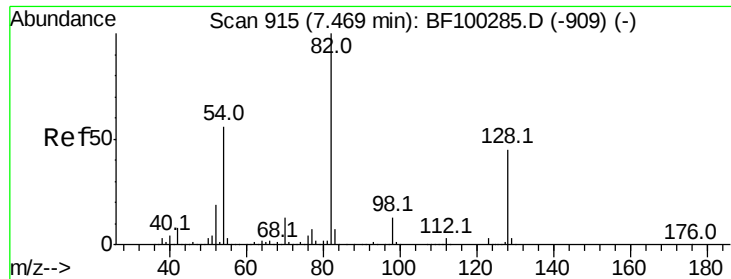
Abundance Ion 136.00 (135.70 to 136.70): E

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

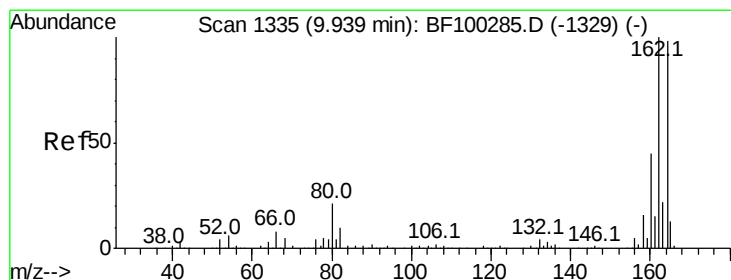
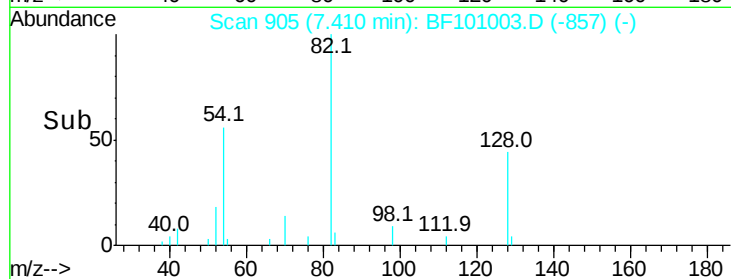
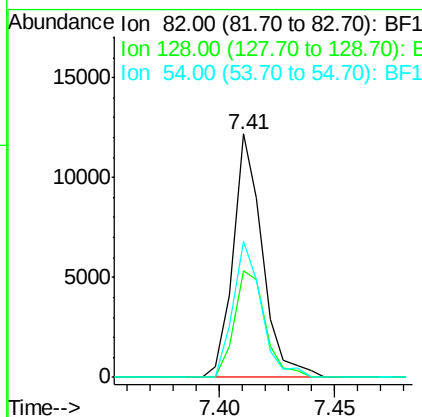
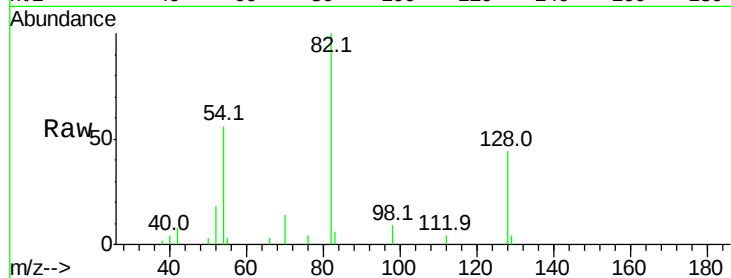




#23
 Nitrobenzene-d5
 Concen: 3.917 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.02 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

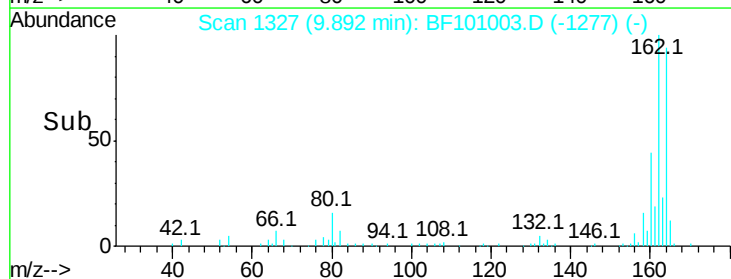
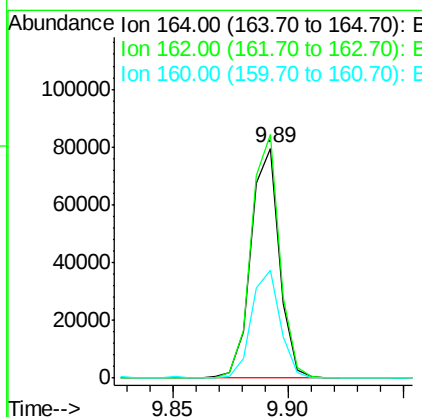
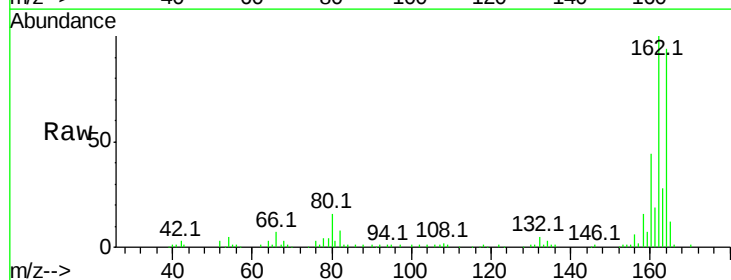
Instrument :
 BNA_F
 ClientSampleId :

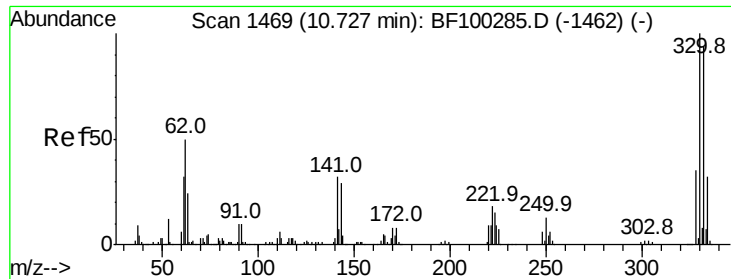
Tot Ion	82	Resp	10765
Ion Ratio	Lower	Upper	
82	100		
128	43.6	36.1	54.1
54	55.8	41.4	62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion	164	Resp	68667
Ion Ratio	Lower	Upper	
164	100		
162	105.9	86.1	129.1
160	46.9	38.3	57.5

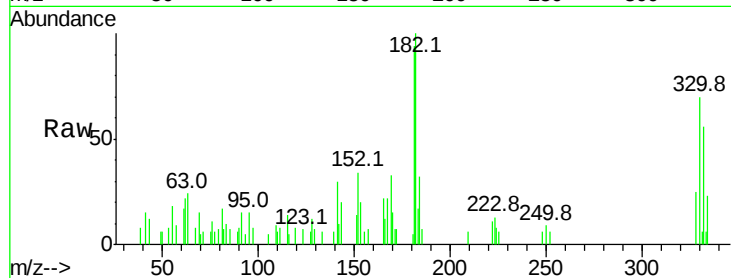




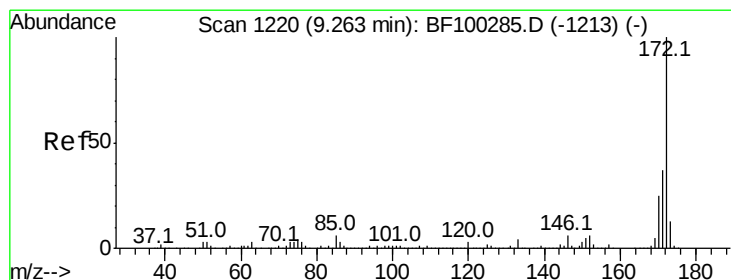
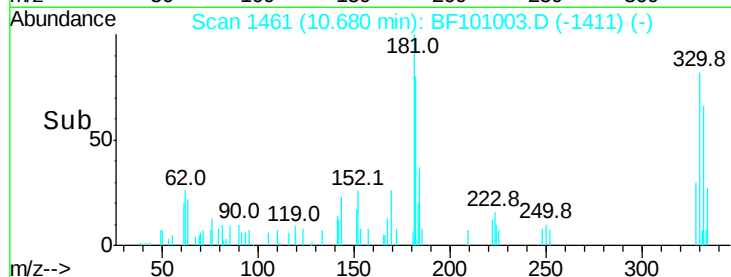
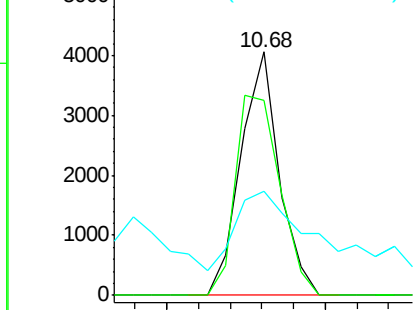
#41
 2,4,6-Tribromophenol
 Concen: 4.852 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 3395
 Ion Ratio Lower Upper
 330 100
 332 95.0 77.0 115.6
 141 127.8 29.9 44.9#

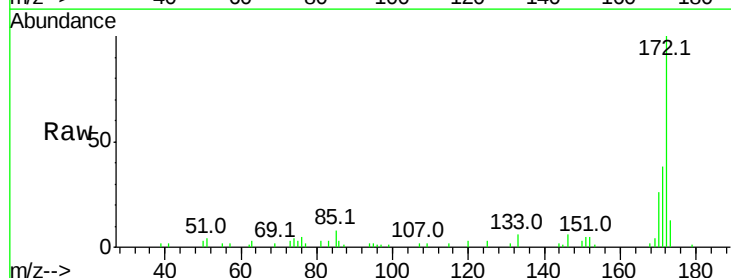


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

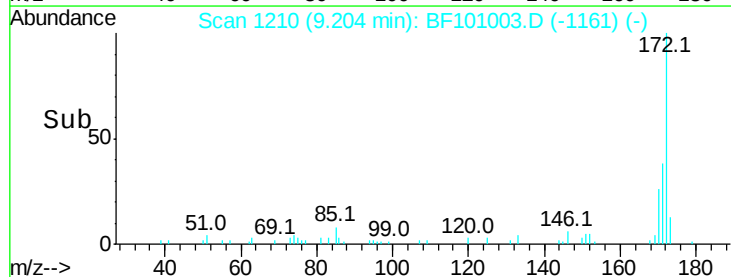
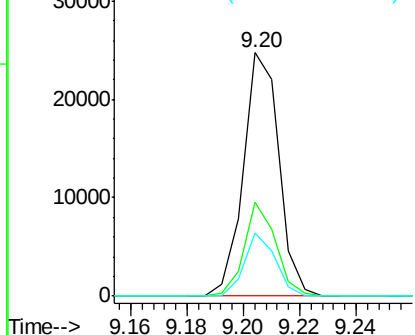


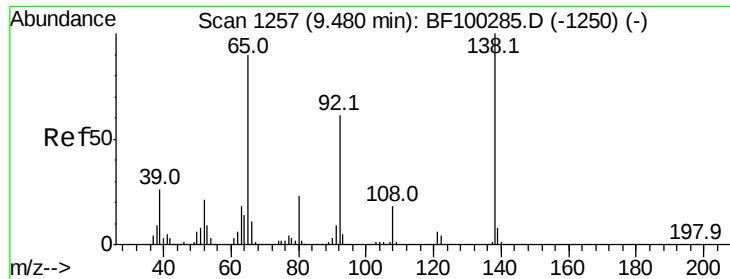
#44
 2-Fluorobiphenyl
 Concen: 4.779 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion:172 Resp: 21552
 Ion Ratio Lower Upper
 172 100
 171 38.4 29.7 44.5
 170 25.9 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

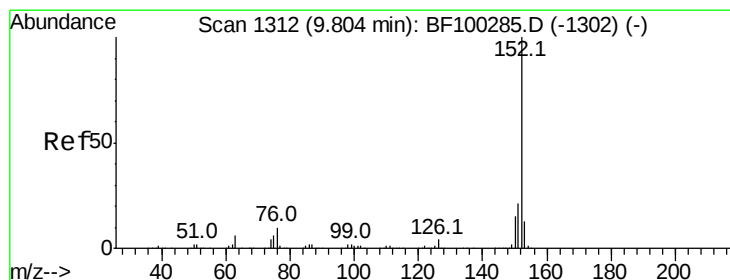
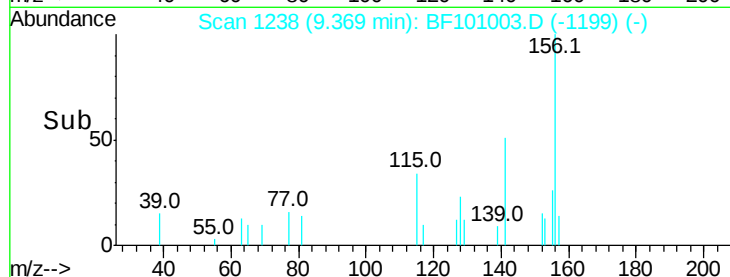
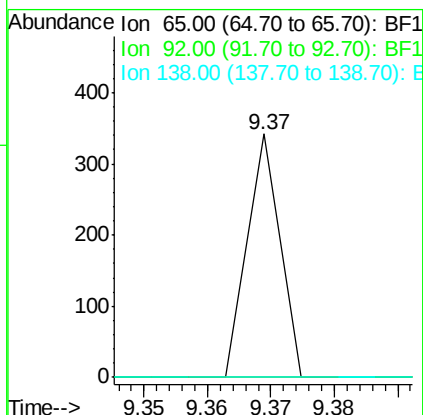
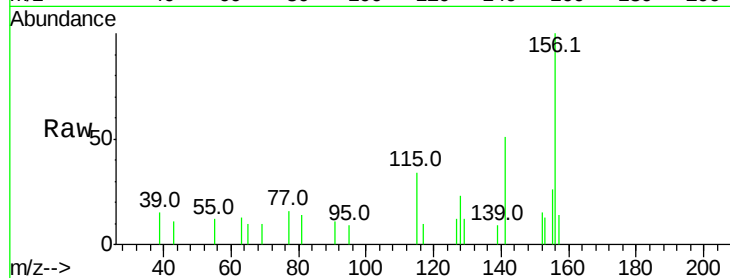




#47
2-Nitroaniline
Concen: 2.873 ng
RT: 9.37 min Scan# 1238
Delta R.T. -0.07 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

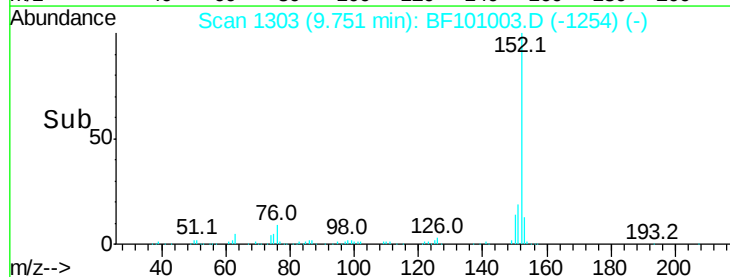
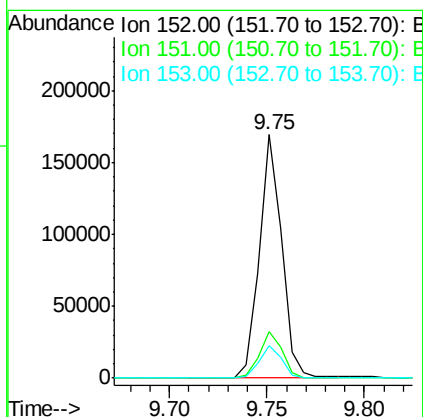
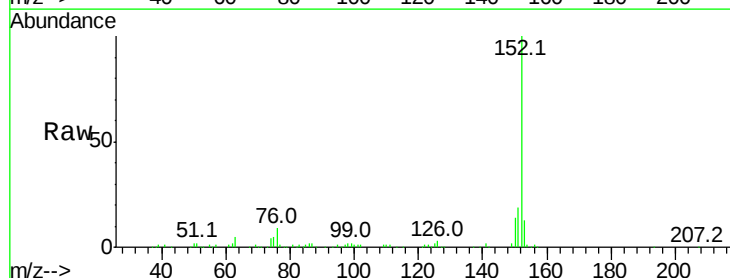
Instrument :
BNA_F
ClientSampleId :

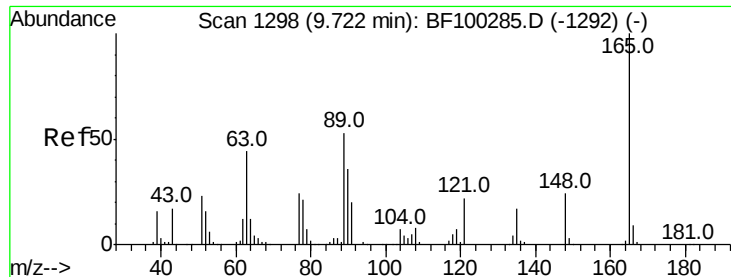
Tot Ion: 65 Resp: 121
Ion Ratio Lower Upper
65 100
92 0.0 55.8 83.6#
138 0.0 91.2 136.8#



#48
Acenaphthylene
Concen: 18.833 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion: 152 Resp: 134473
Ion Ratio Lower Upper
152 100
151 19.2 16.3 24.5
153 13.3 10.7 16.1

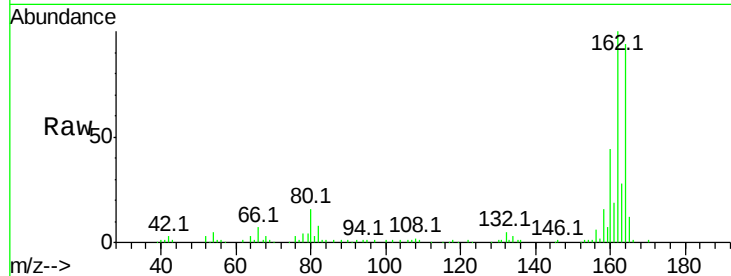




#50
 2,6-Dinitrotoluene
 Concen: 9.464 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.21 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampleId :

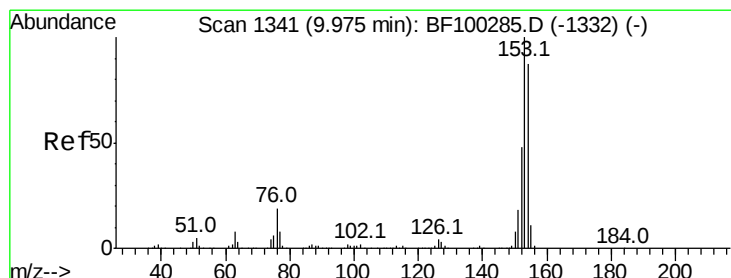
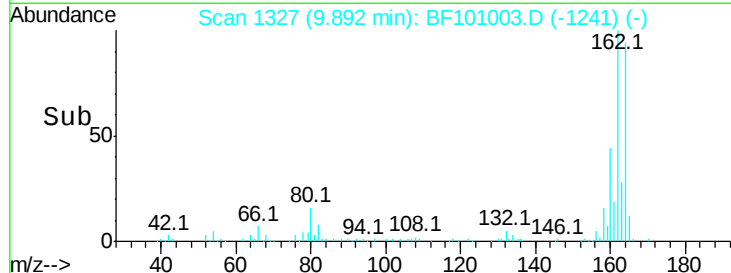
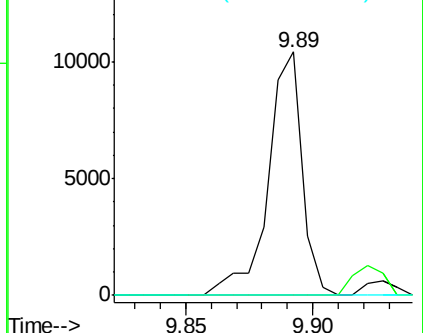
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

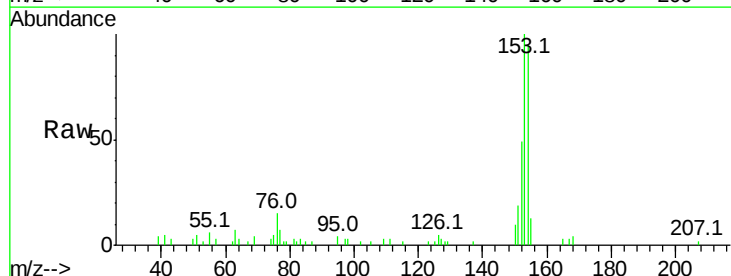
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#51
 Acenaphthene
 Concen: 3.417 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

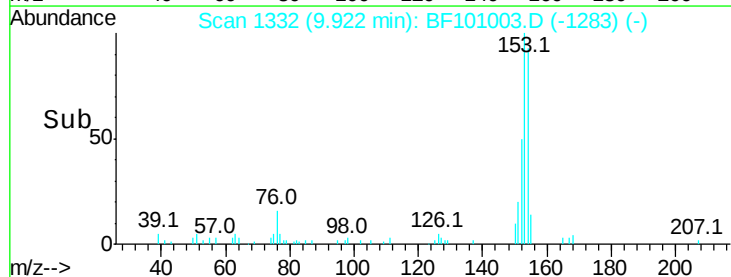
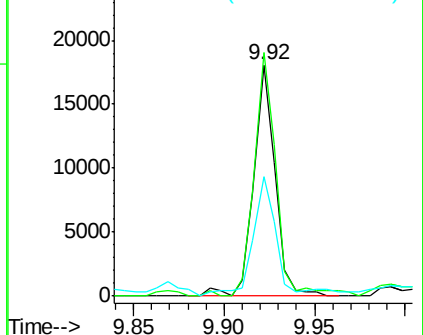
Tgt Ion	Ratio	Lower	Upper
154	100		
153	105.2	91.2	136.8
152	51.6	43.8	65.8

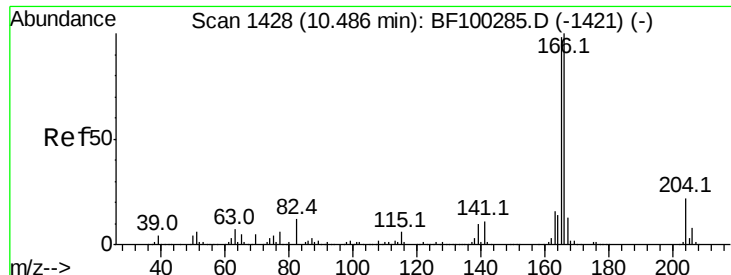


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

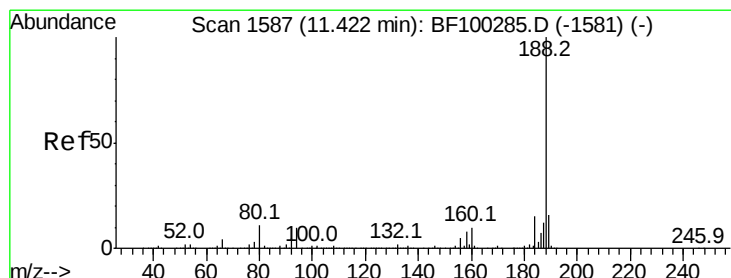
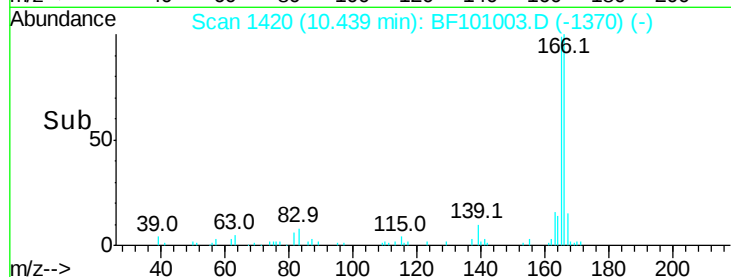
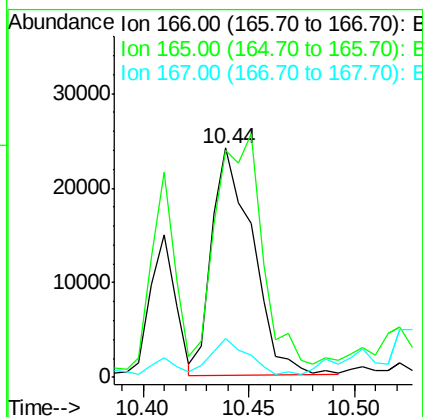
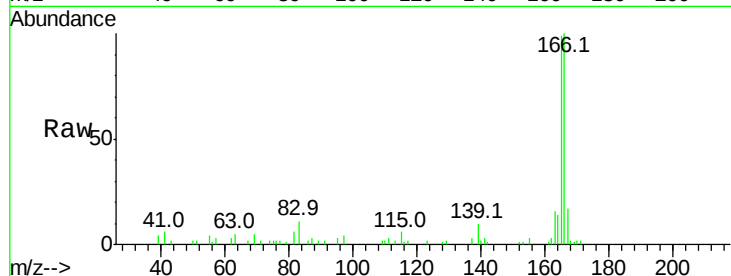




#57
Fluorene
 Concen: 7.239 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

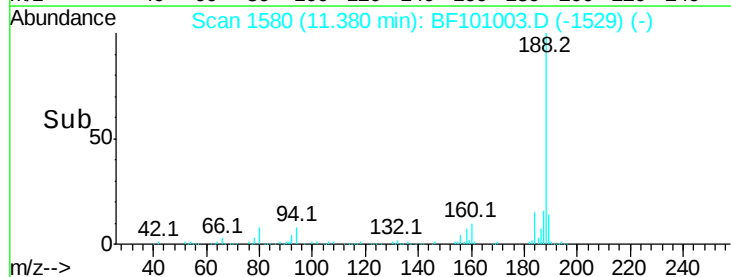
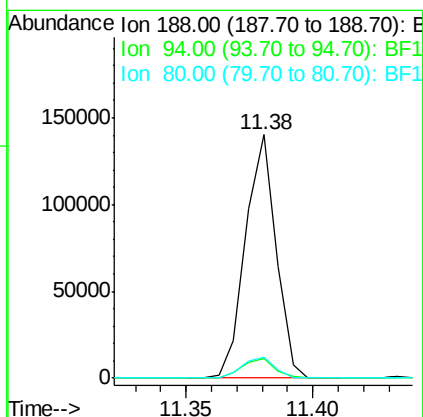
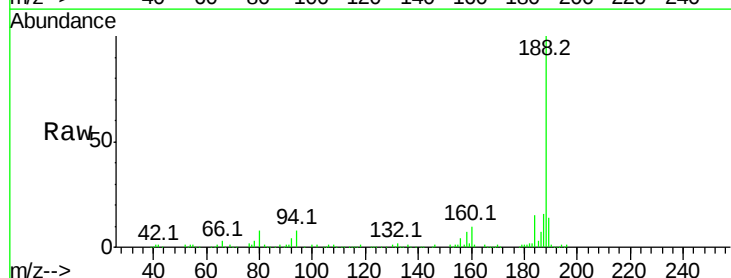
Instrument :
 BNA_F
 ClientSampleId :

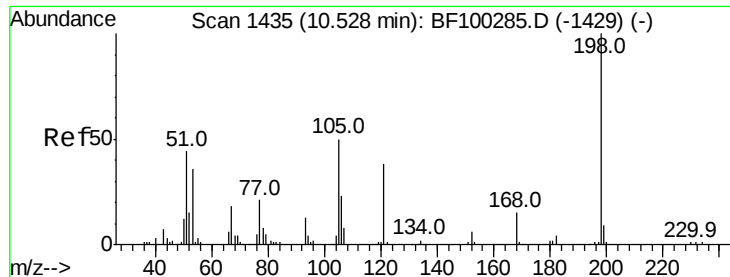
Tot Ion:166 Resp: 32277
 Ion Ratio Lower Upper
 166 100
 165 99.0 79.8 119.8
 167 16.7 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion:188 Resp: 117728
 Ion Ratio Lower Upper
 188 100
 94 7.9 8.5 12.7#
 80 8.4 9.2 13.8#

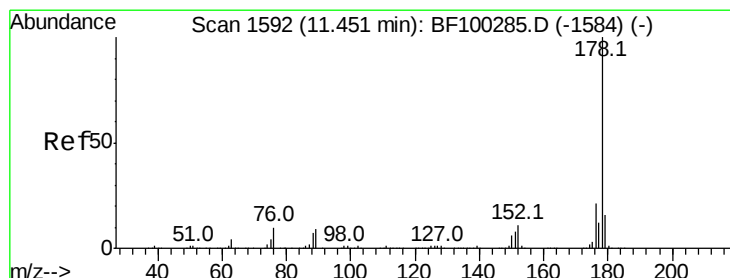
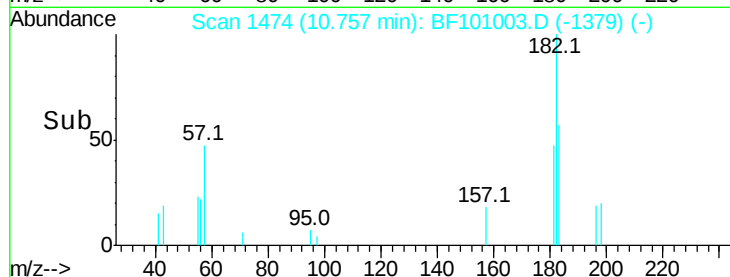
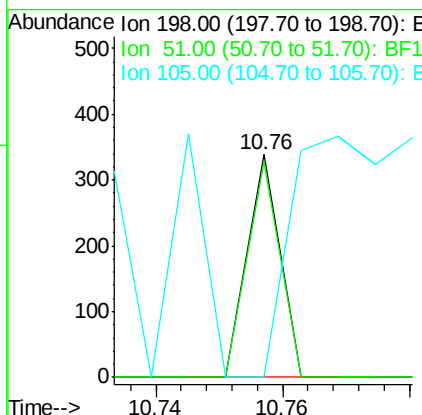
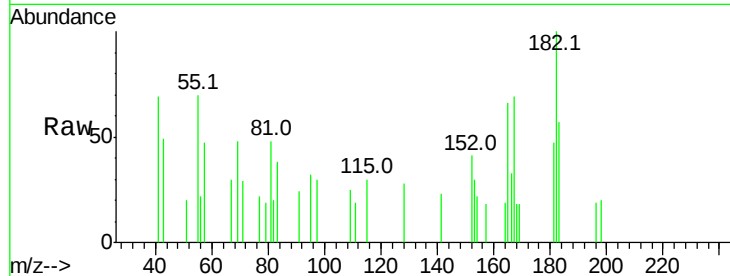




#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.736 ng
 RT: 10.76 min Scan# 1474
 Delta R.T. 0.26 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

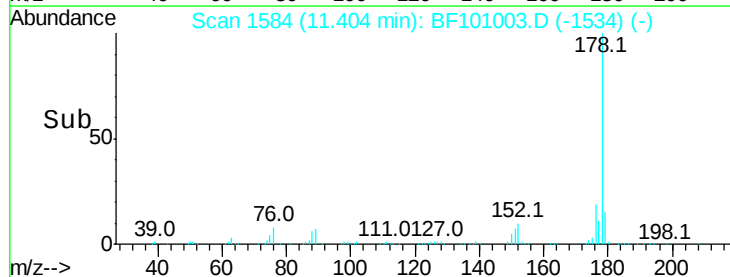
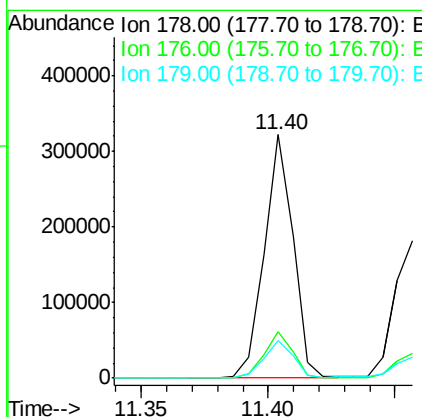
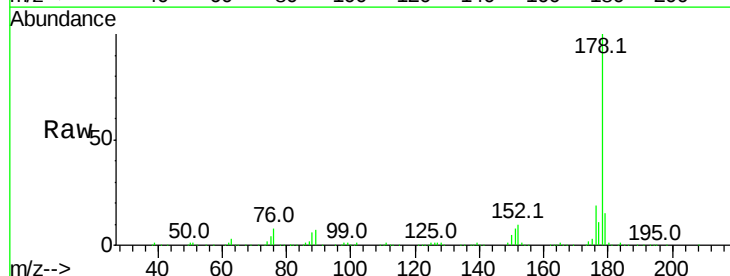
Instrument :
 BNA_F
 ClientSampled :

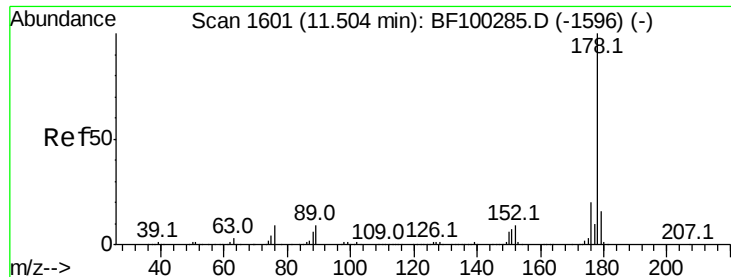
Tot Ion:198 Resp: 120
 Ion Ratio Lower Upper
 198 100
 51 96.8 37.7 77.7#
 105 0.0 36.3 76.3#



#70
 Phenanthrene
 Concen: 41.328 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion:178 Resp: 256172
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 15.4 13.0 19.6

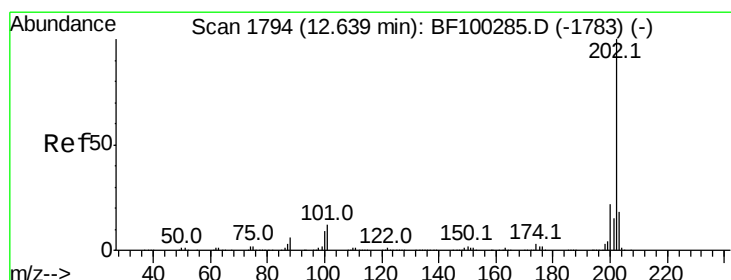
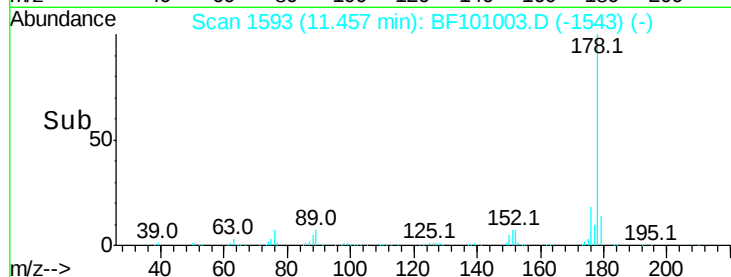
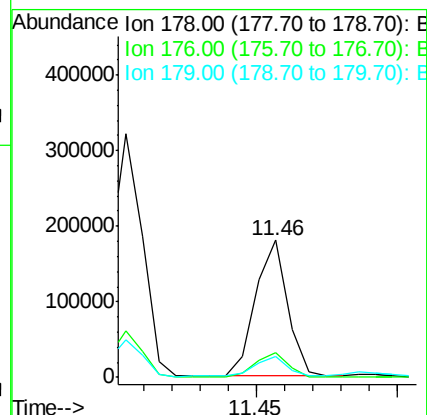
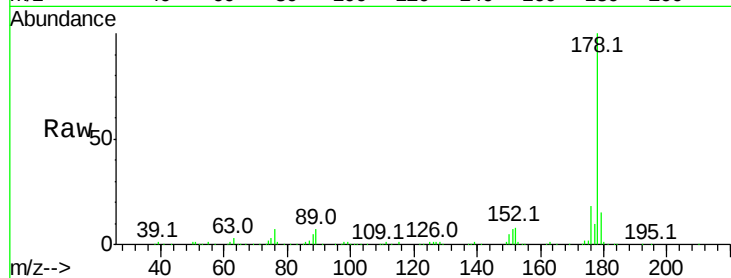




#71
 Anthracene
 Concen: 22.736 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

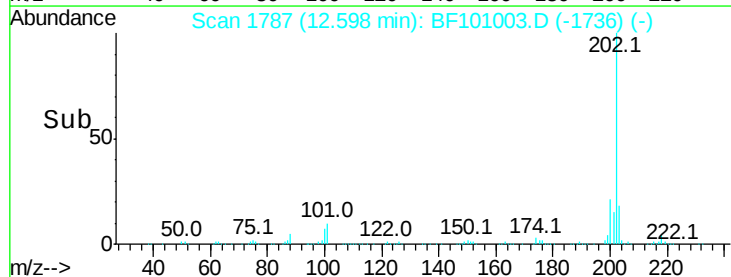
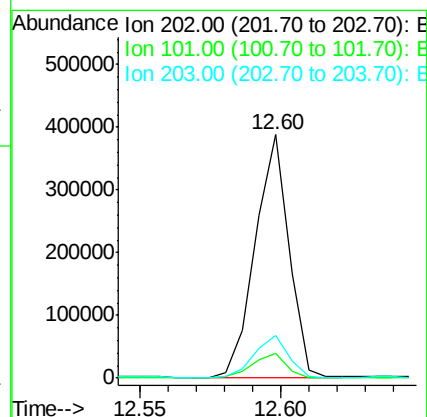
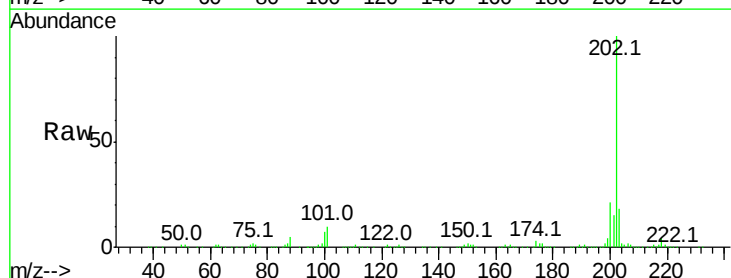
Instrument :
 BNA_F
 ClientSampleId :

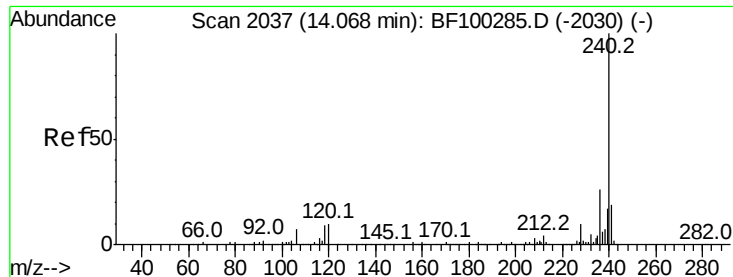
Tot Ion:178 Resp: 142984
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.4 23.2
 179 14.8 12.6 19.0



#74
 Fluoranthene
 Concen: 48.942 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. 0.00 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion:202 Resp: 321515
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 34.1
 203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

ClientSampleId :

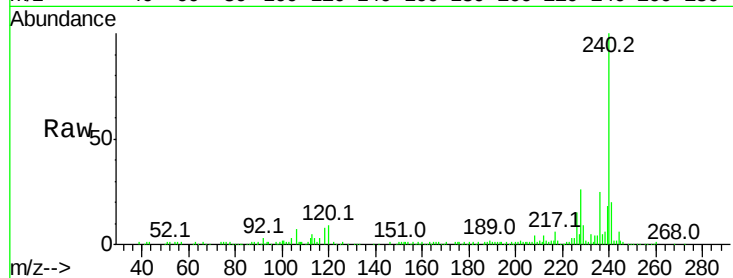
Tot Ion:240 Resp: 115757

Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

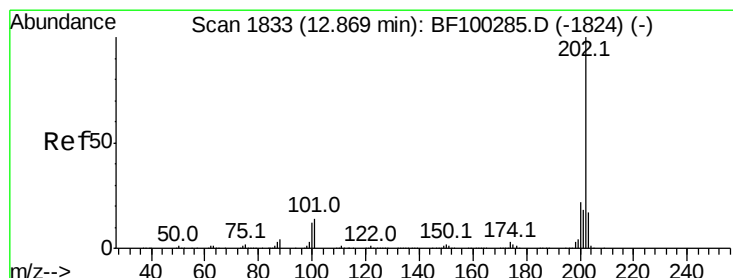
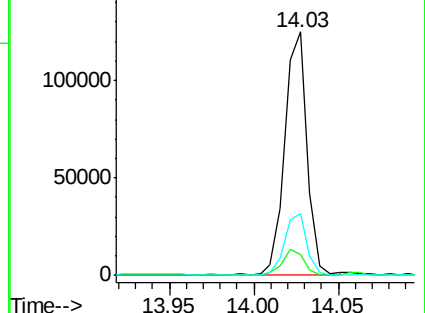
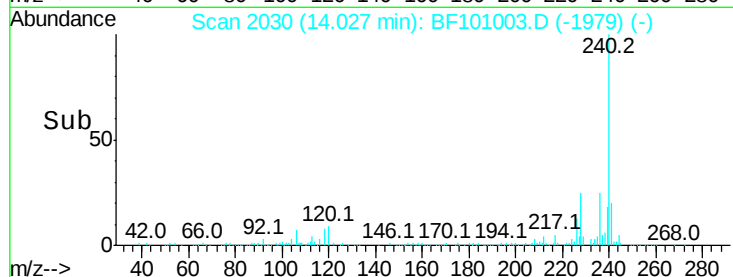
236 25.2 20.7 31.1



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: 54.564 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

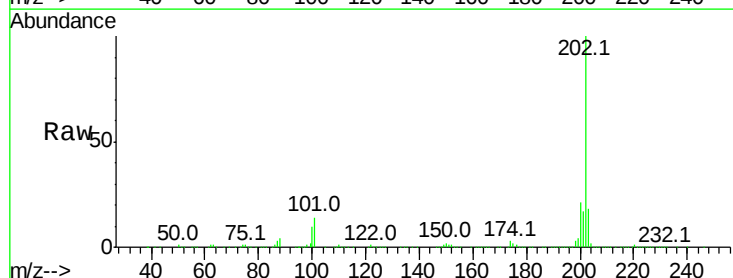
Tgt Ion:202 Resp: 450237

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

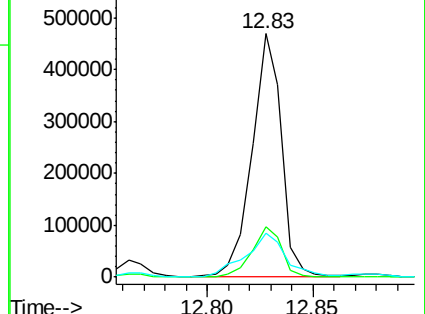
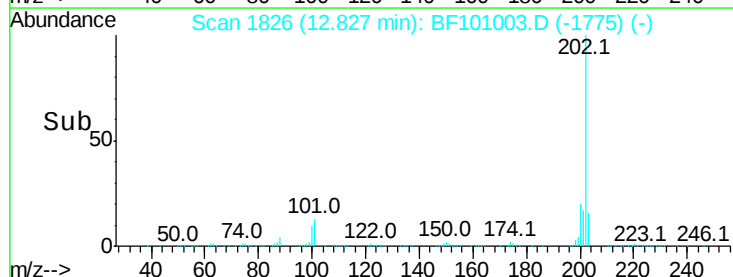
203 17.8 14.3 21.5

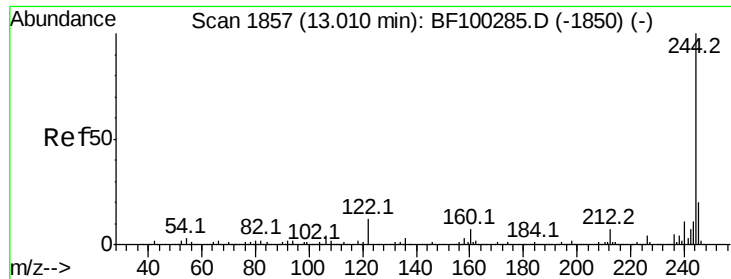


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.792 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

ClientSampled :

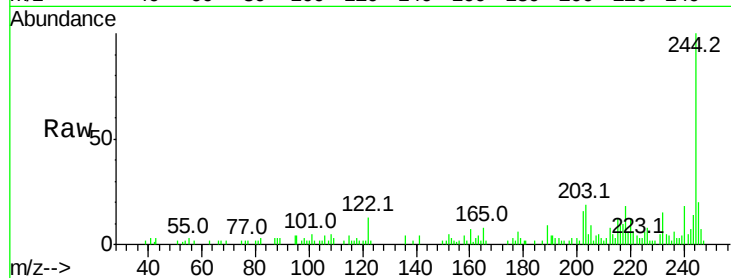
Tot Ion:244 Resp: 19102

Ion Ratio Lower Upper

244 100

212 7.9 5.4 8.0

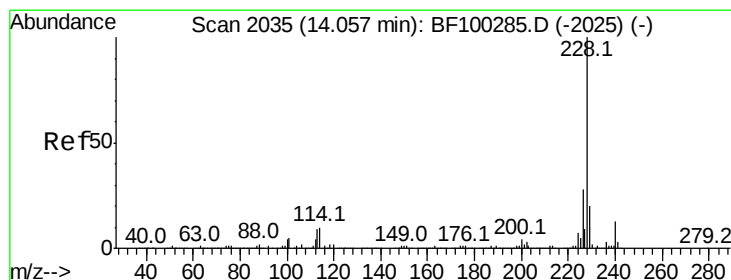
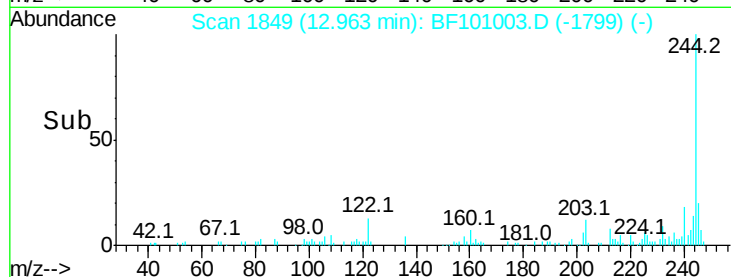
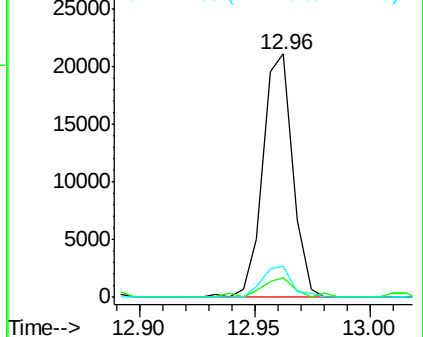
122 13.0 11.0 16.4



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: 29.852 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.04 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

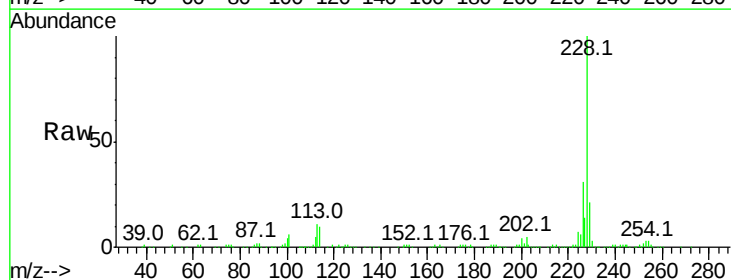
Tgt Ion:228 Resp: 208094

Ion Ratio Lower Upper

228 100

226 30.7 22.6 33.8

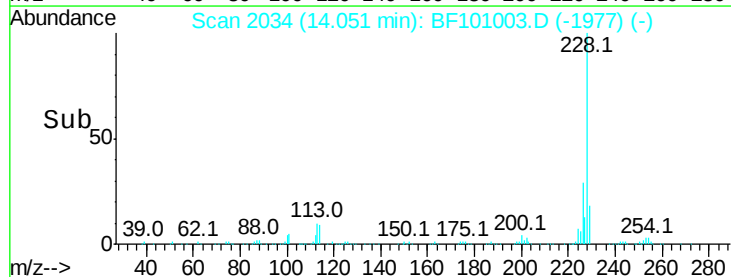
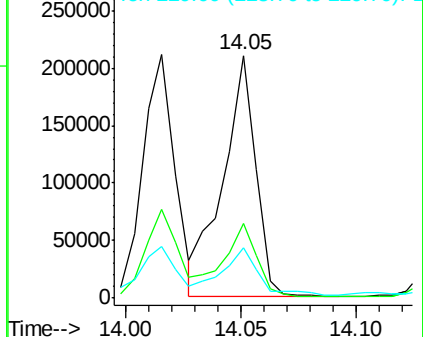
229 20.5 15.8 23.6

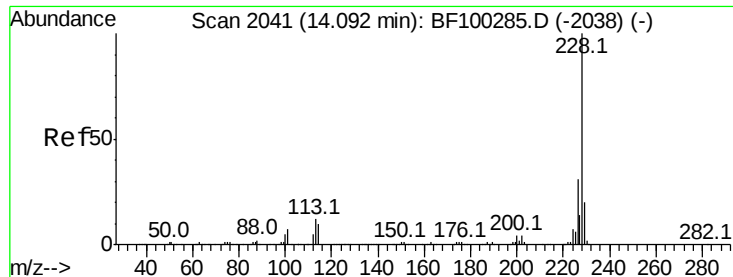


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 30.827 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

Instrument :

BNA_F

ClientSampled :

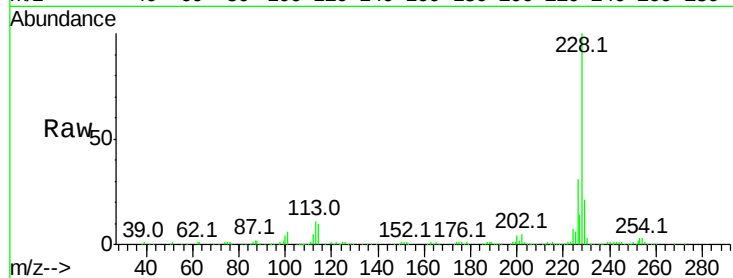
Tot Ion:228 Resp: 208094

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

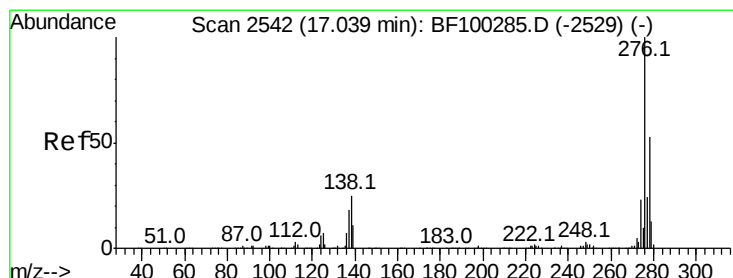
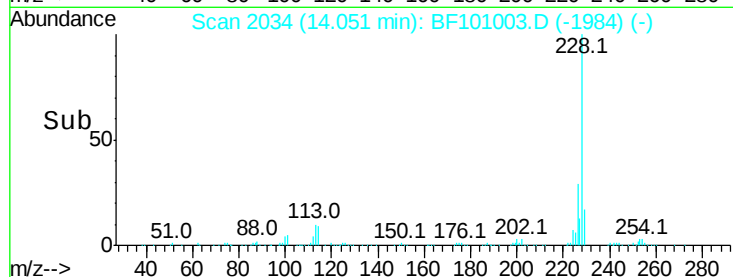
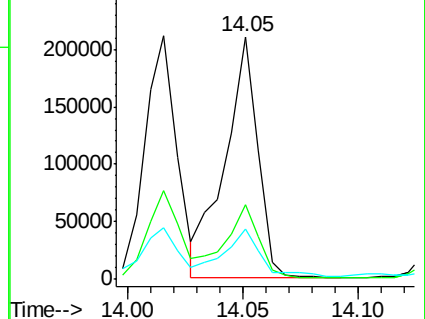
229 20.5 16.2 24.4



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: 10.726 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.00 min

Lab File: BF101003.D

Acq: 30 Nov 2017 3:55

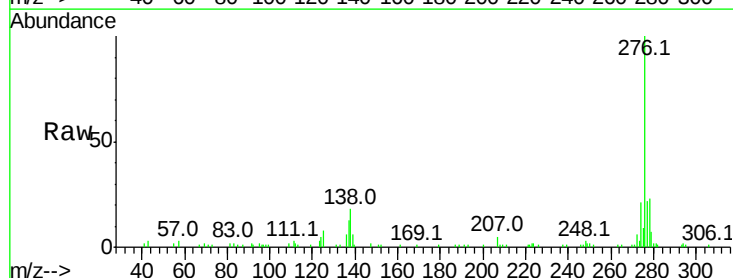
Tgt Ion:276 Resp: 58565

Ion Ratio Lower Upper

276 100

138 22.4 25.0 37.6#

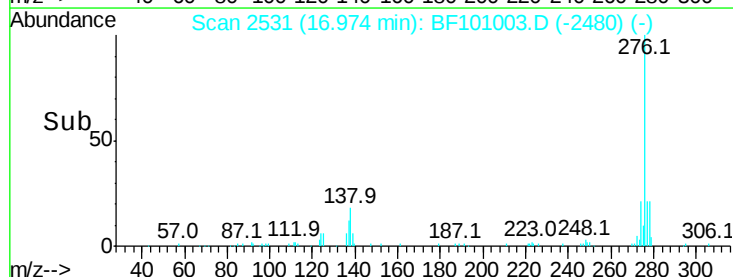
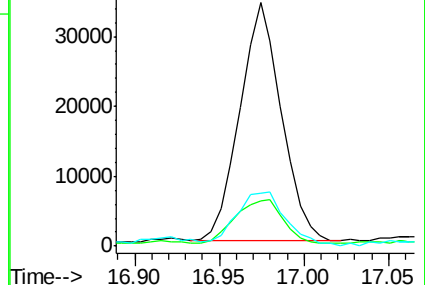
277 27.4 20.1 30.1

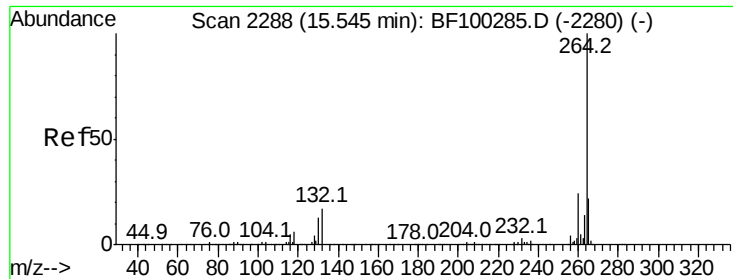


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

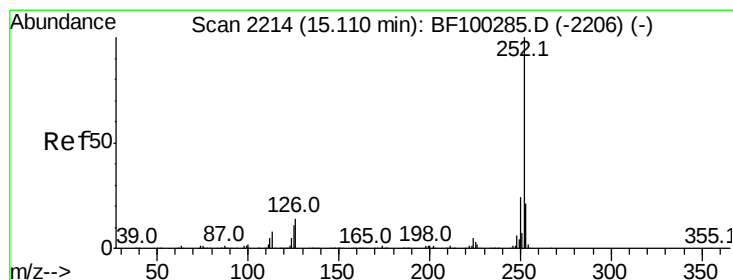
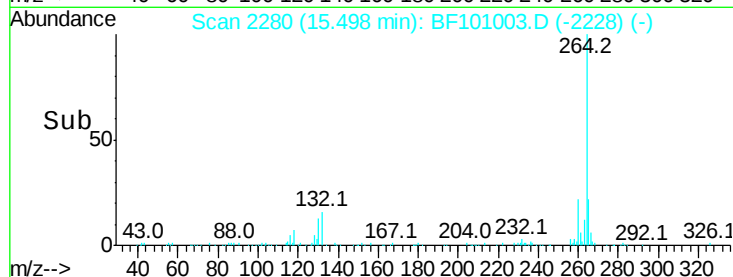
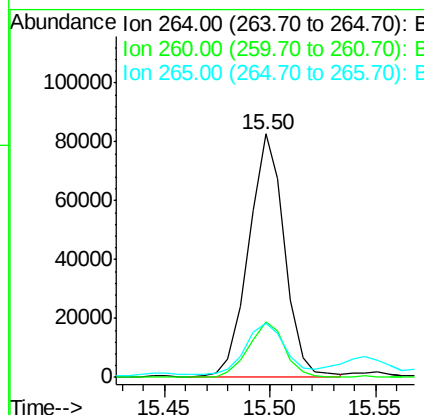
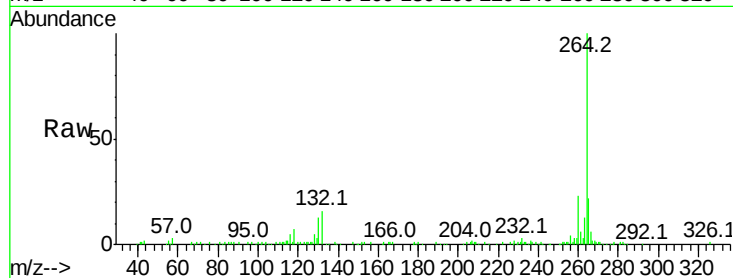




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

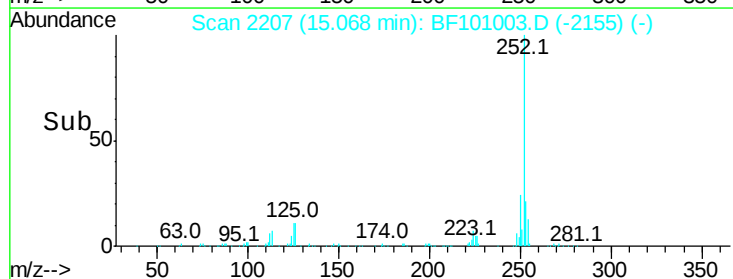
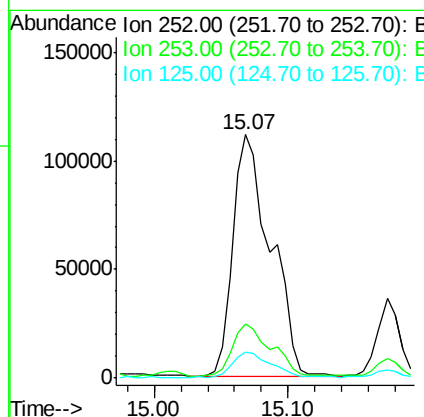
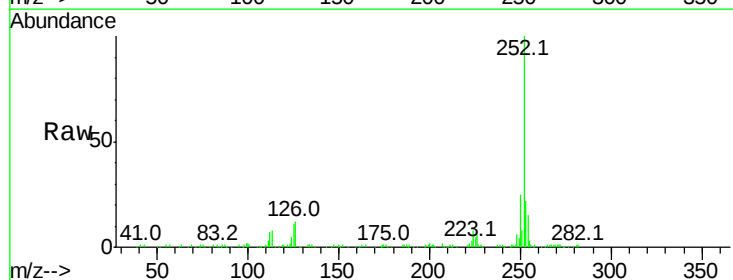
Instrument :
BNA_F
ClientSampleId :

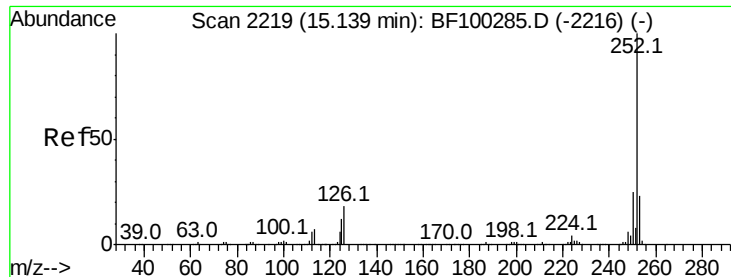
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.2	28.8
265	22.4	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 37.903 ng
RT: 15.07 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	10.8	9.0	13.6

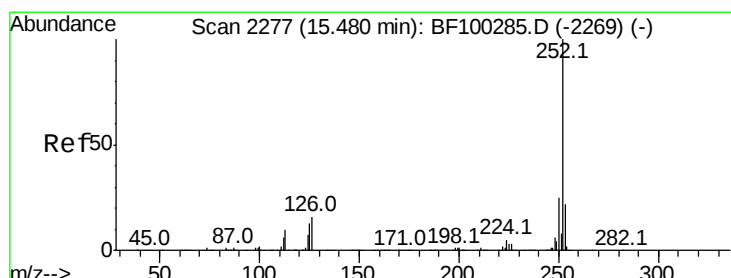
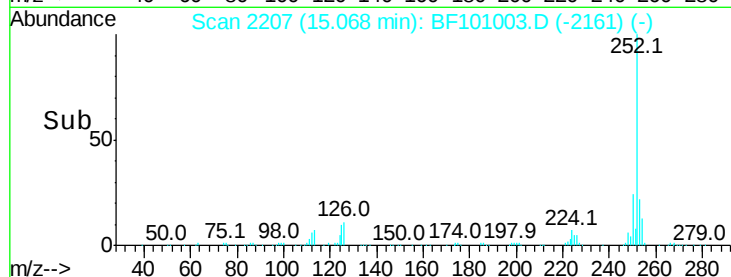
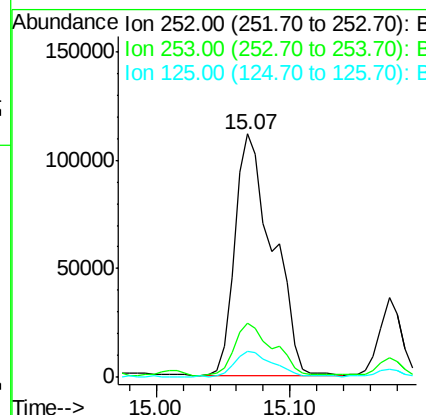
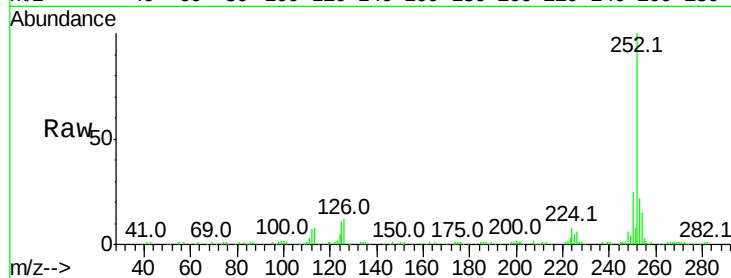




#88
Benzo(k)fluoranthene
Concen: 40.115 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.03 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

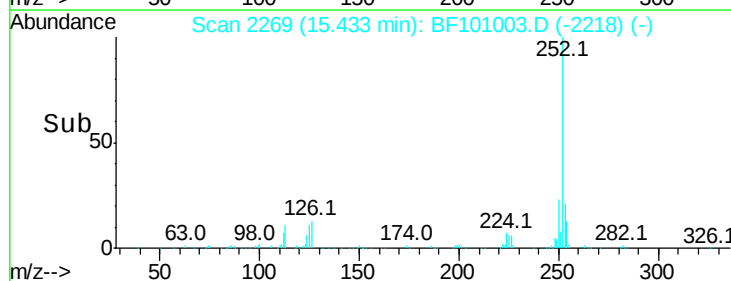
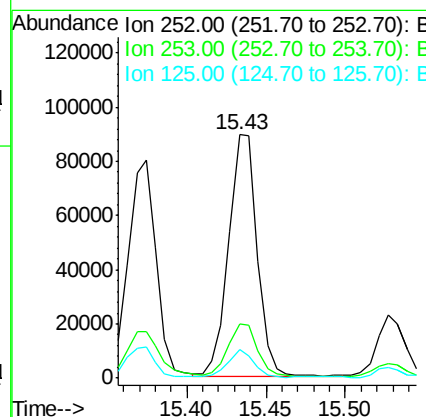
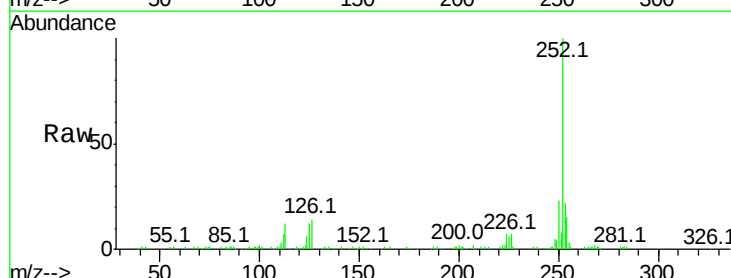
Instrument :
BNA_F
ClientSampled :

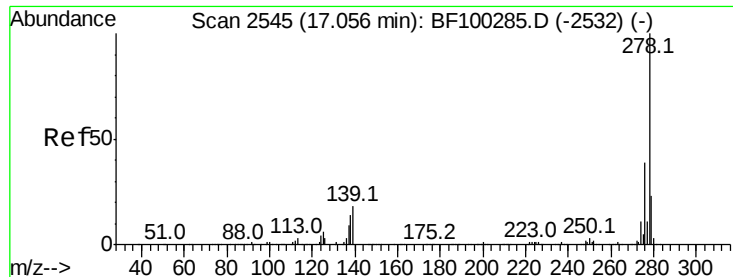
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	10.8	10.2	15.2



#89
Benzo(a)pyrene
Concen: 21.825 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF101003.D
Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	11.8	9.8	14.6

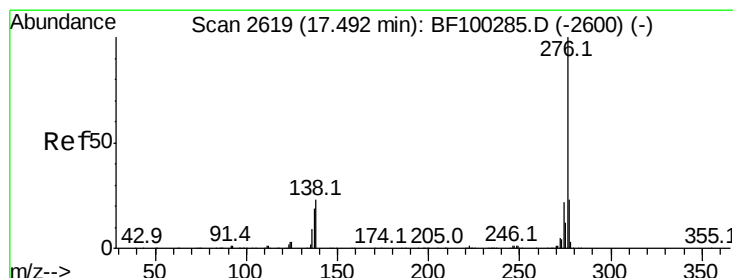
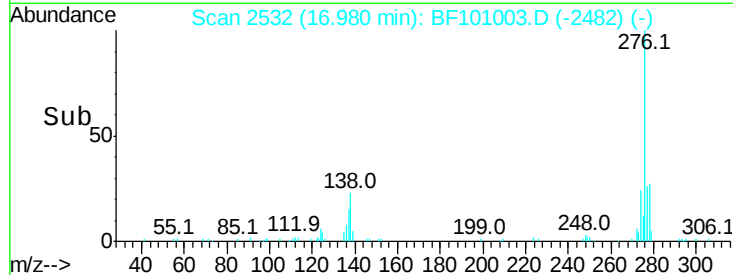
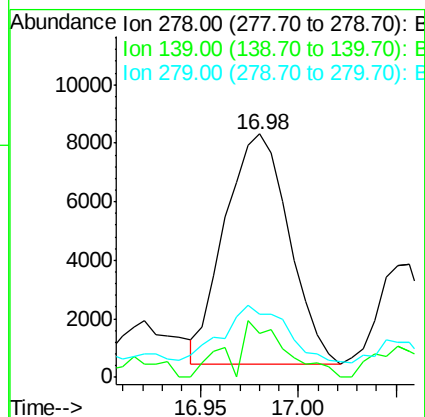
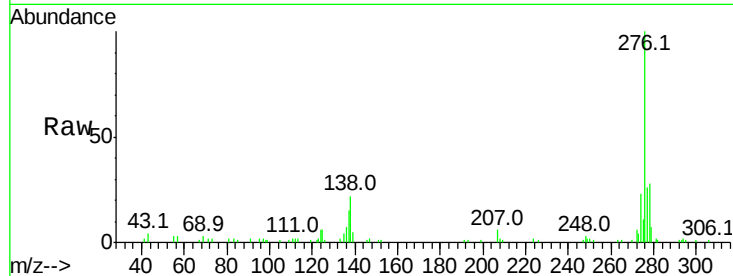




#90
 Dibenzo(a,h)anthracene
 Concen: 4.278 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.1	15.9	23.9
279	25.7	19.0	28.4



#91
 Benzo(g,h,i)perylene
 Concen: 14.680 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. 0.01 min
 Lab File: BF101003.D
 Acq: 30 Nov 2017 3:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	20.9	21.8	32.8#

