

Data Path : Z:\HPCHEM1\BNA G\Data\BG030216\
 Data File : BG021212.D
 Acq On : 2 Mar 2016 14:25
 Operator : UM/SJ
 Sample : H1578-03DL 25X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Mar 02 15:07:44 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 02 14:51:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	11888	20.00	ng	0.00
21) Naphthalene-d8	10.95	136	66606	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	46165	20.00	ng	0.00
63) Phenanthrene-d10	17.49	188	108010	20.00	ng	0.00
75) Chrysene-d12	21.77	240	110148	20.00	ng	0.00
86) Perylene-d12	25.05	264	103306	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.70	112	3175	4.25	ng	0.00
7) Phenol-d6	7.30	99	5058	4.11	ng	0.00
23) Nitrobenzene-d5	9.31	82	3743	2.38	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	1389	2.89	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	6671	2.05	ng	0.00
78) Terphenyl-d14	20.09	244	9063	1.99	ng	0.00

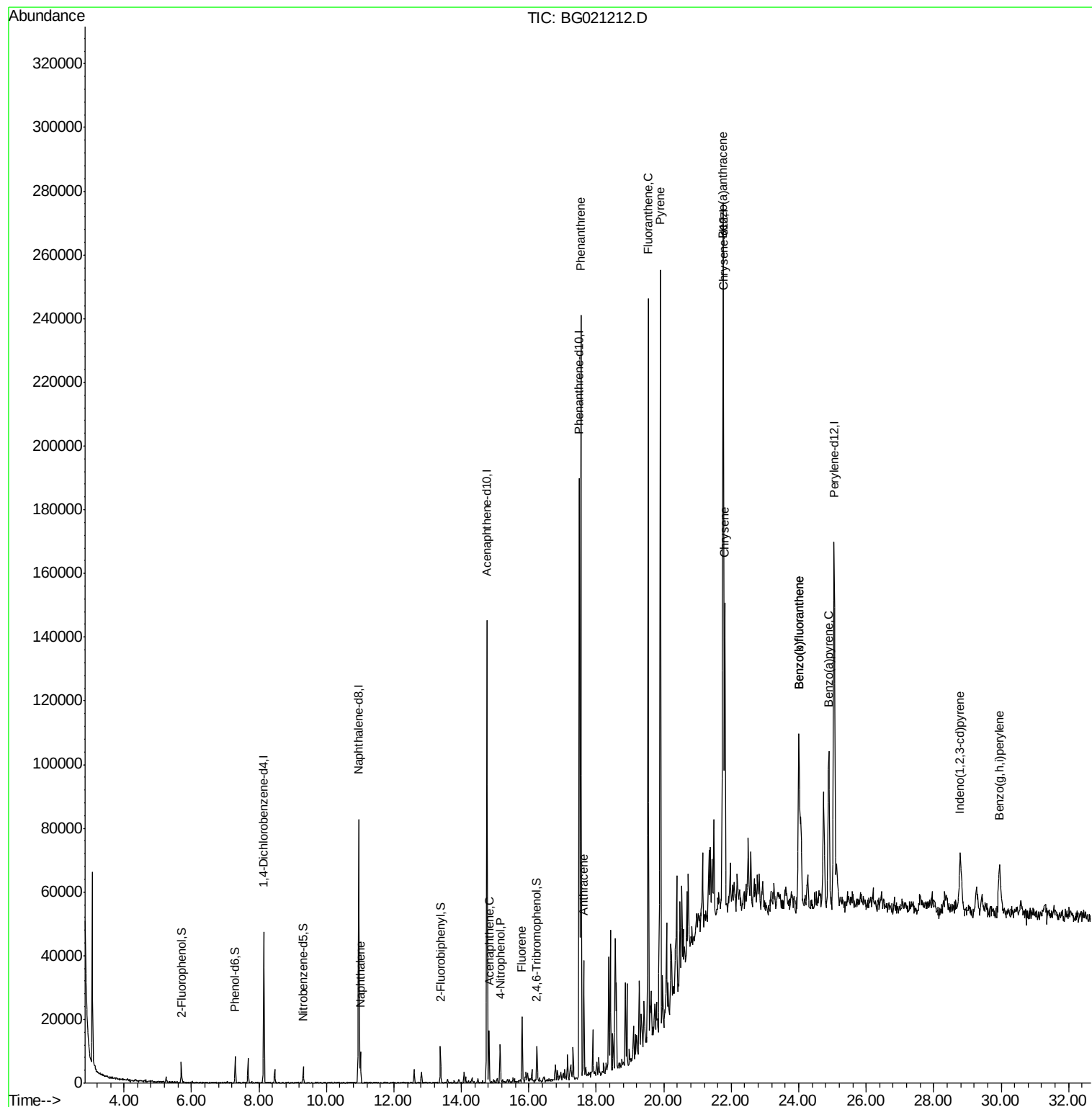
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	11.01	128	8123	2.34	ng	99
51) Acenaphthene	14.82	154	6245	2.04	ng	95
55) 4-Nitrophenol	15.15	139	2927	3.70	ng	# 7
57) Fluorene	15.80	166	9422	2.42	ng	93
70) Phenanthrene	17.54	178	136503	23.42	ng	98
71) Anthracene	17.63	178	20761	3.48	ng	99
74) Fluoranthene	19.54	202	136824	19.98	ng	97
77) Pyrene	19.90	202	138812	21.12	ng	99
80) Benzo(a)anthracene	21.75	228	59039	9.05	ng	97
82) Chrysene	21.81	228	62227	10.07	ng	99
85) Indeno(1,2,3-cd)pyrene	28.78	276	29342	4.14	ng	# 92
87) Benzo(b)fluoranthene	24.00	252	64557	9.94	ng	98
88) Benzo(k)fluoranthene	24.00	252	64557	9.92	ng	97
89) Benzo(a)pyrene	24.89	252	50115	7.98	ng	93
91) Benzo(a,h,i)perylene	29.95	276	28077	4.68	ng	96

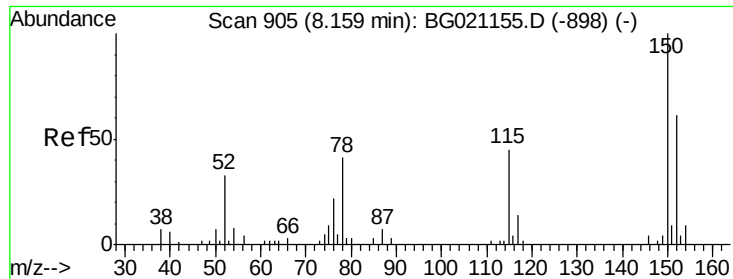
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\Data\BG030216\
Data File : BG021212.D
Acq On : 2 Mar 2016 14:25
Operator : UM/SJ
Sample : H1578-03DL 25X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :

Quant Time: Mar 02 15:07:44 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 02 14:51:49 2016
Response via : Initial Calibration



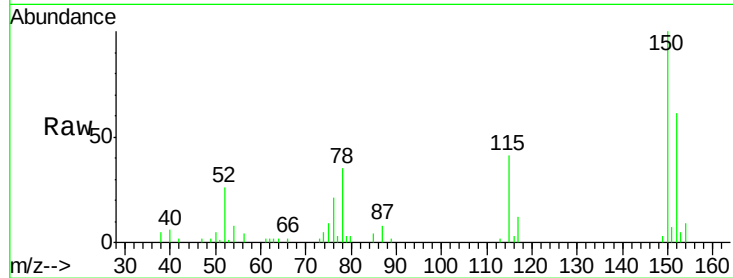


#1

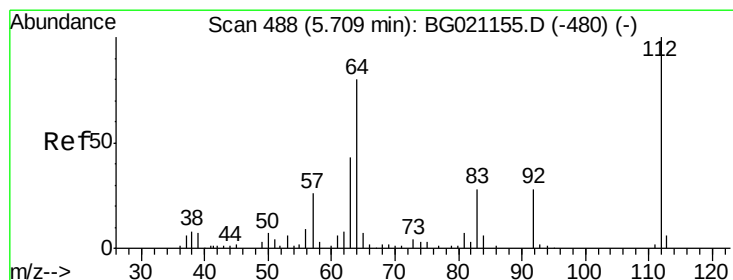
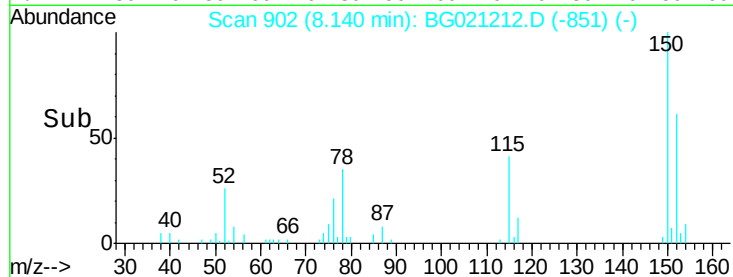
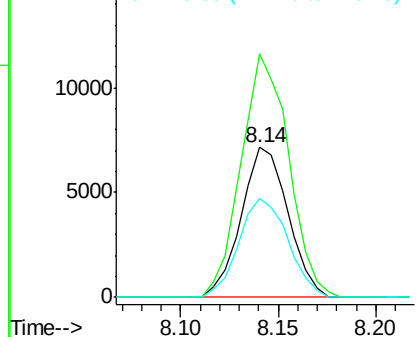
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 902
Delta R.T. -0.00 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 11888
Ion Ratio Lower Upper
152 100
150 162.7 123.4 185.2
115 66.4 43.3 64.9#



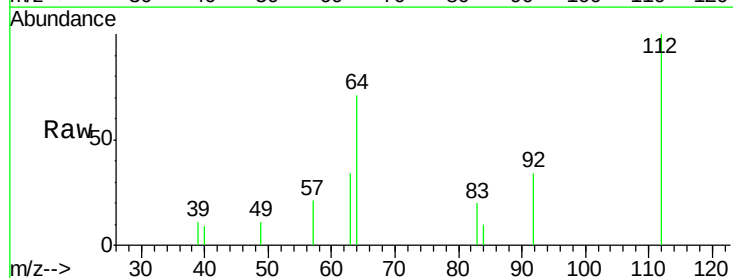
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



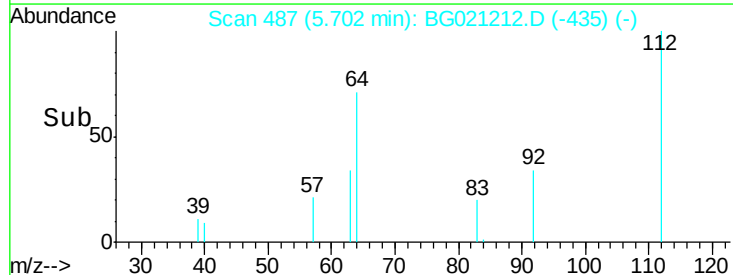
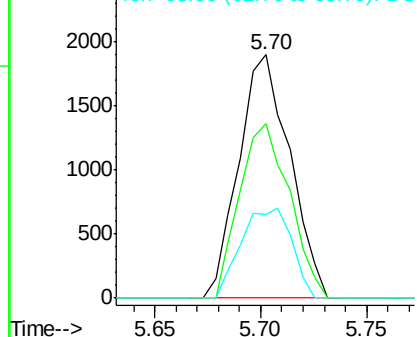
#5

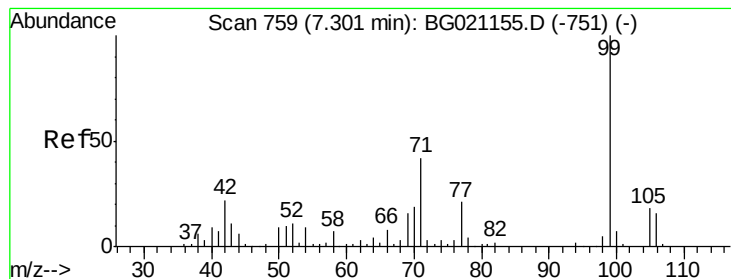
2-Fluorophenol
Concen: 4.25 ng
RT: 5.70 min Scan# 487
Delta R.T. 0.00 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:112 Resp: 3175
Ion Ratio Lower Upper
112 100
64 71.4 42.6 63.8#
63 34.3 21.7 32.5#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 4.11 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.00 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Instrument :

BNA_G

ClientSampleId :

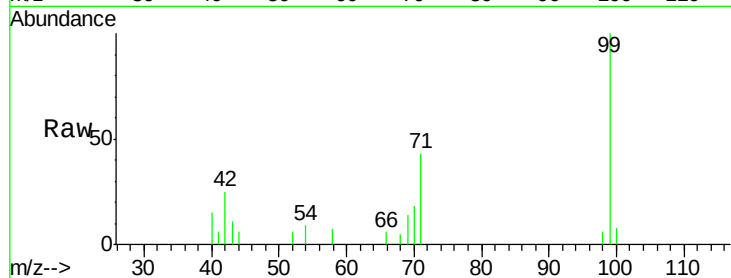
Tot Ion: 99 Resp: 5058

Ion Ratio Lower Upper

99 100

42 25.5 13.2 19.8#

71 42.5 25.2 37.8#

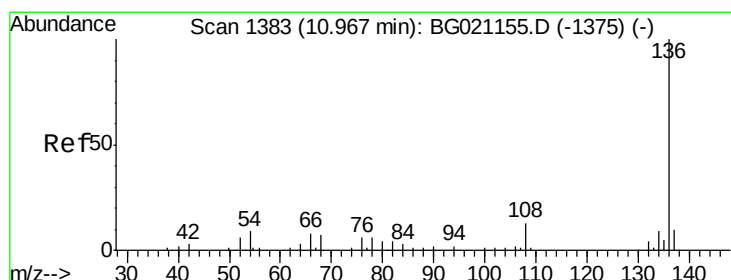
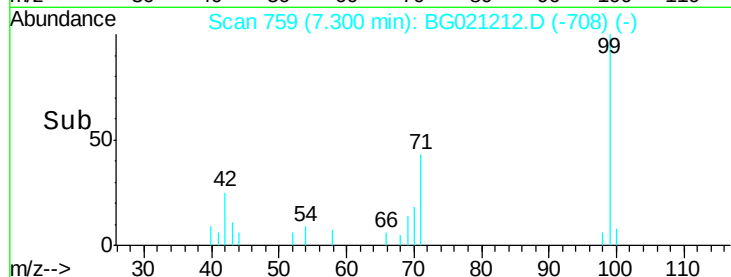
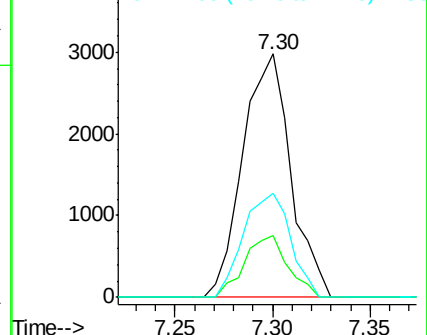


Abundance

Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.95 min Scan# 1381

Delta R.T. -0.00 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Tgt Ion: 136 Resp: 66606

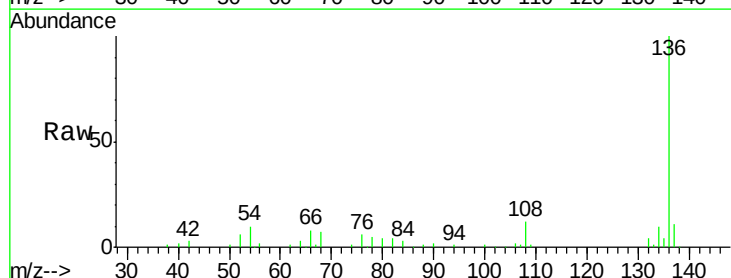
Ion Ratio Lower Upper

136 100

137 11.5 8.8 13.2

54 10.1 6.9 10.3

68 7.4 5.8 8.6



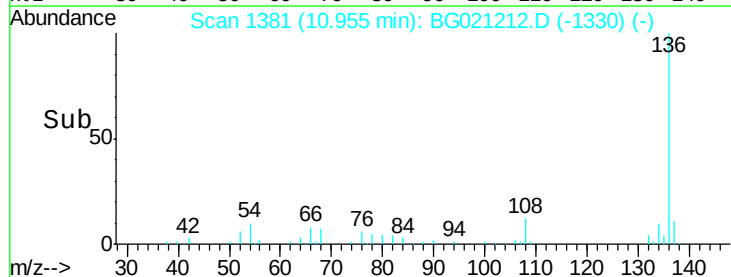
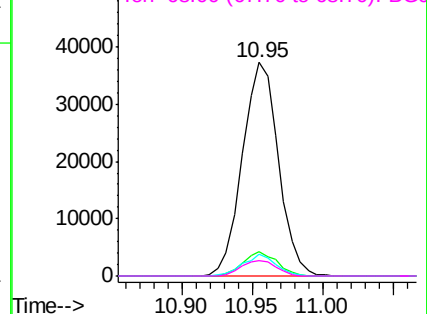
Abundance

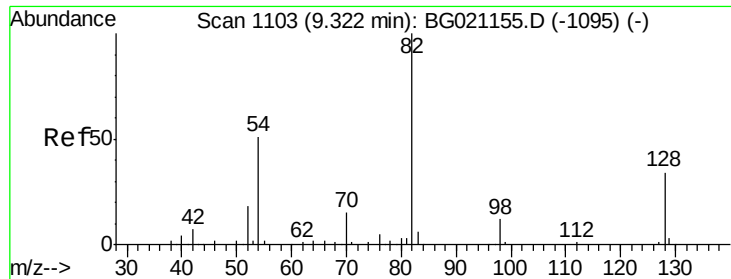
Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

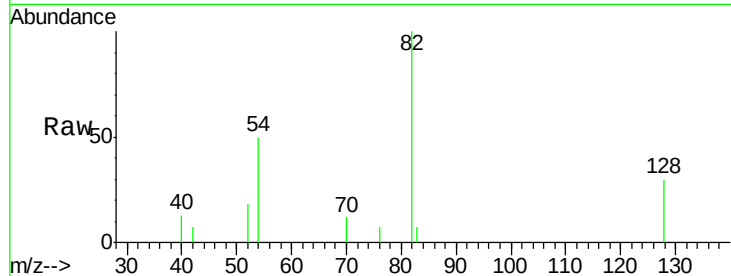




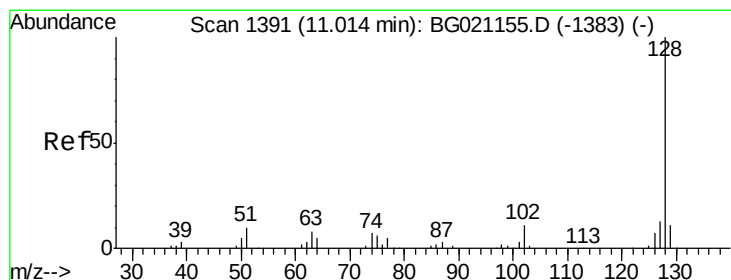
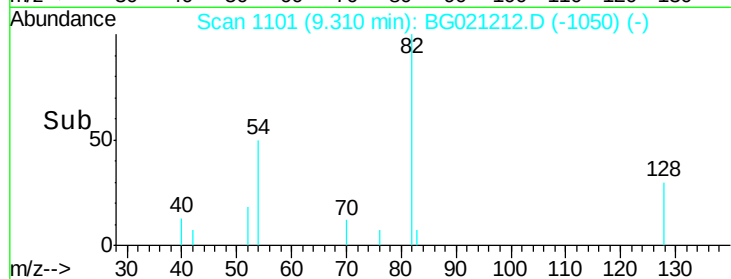
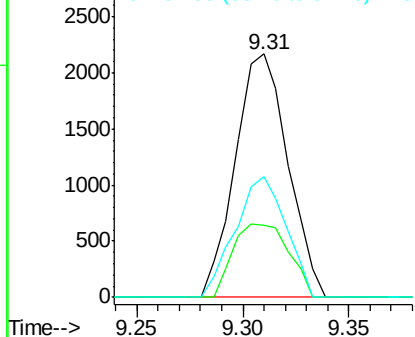
#23
Nitrobenzene-d5
Concen: 2.38 ng
RT: 9.31 min Scan# 1101
Delta R.T. -0.00 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Instrument :
BNA_G
ClientSampleId :

Tot Ion: 82 Resp: 3743
Ion Ratio Lower Upper
82 100
128 29.9 36.3 54.5#
54 49.8 37.6 56.4

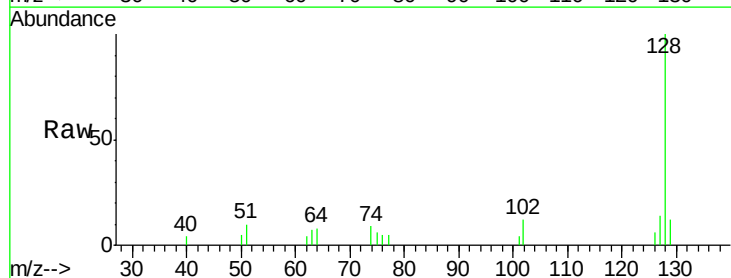


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

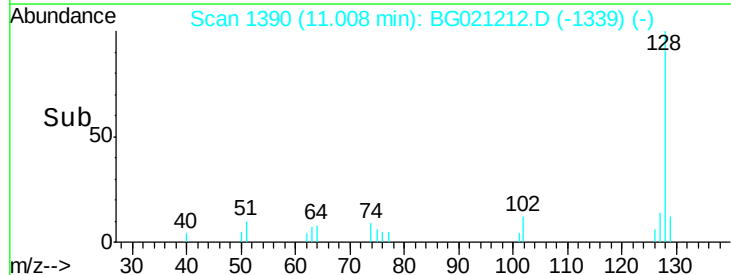
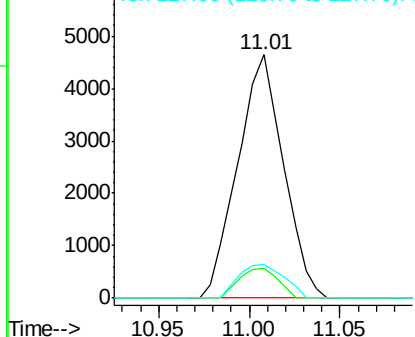


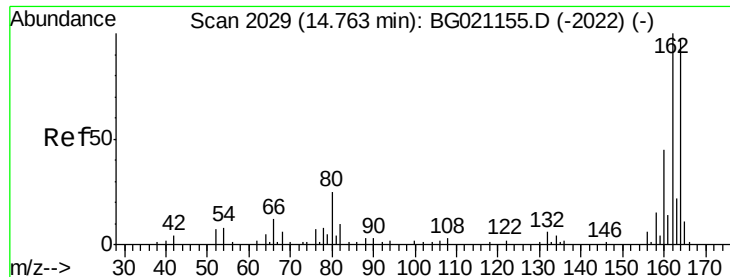
#31
Naphthalene
Concen: 2.34 ng
RT: 11.01 min Scan# 1390
Delta R.T. -0.00 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion: 128 Resp: 8123
Ion Ratio Lower Upper
128 100
129 12.2 9.4 14.2
127 14.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 129.00 (128.70 to 129.70): BGC
Ion 127.00 (126.70 to 127.70): BGC





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Instrument :

BNA_G

ClientSampleId :

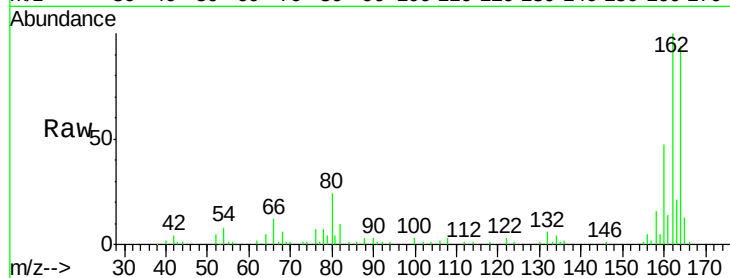
Tot Ion:164 Resp: 46165

Ion Ratio Lower Upper

164 100

162 106.3 80.6 120.8

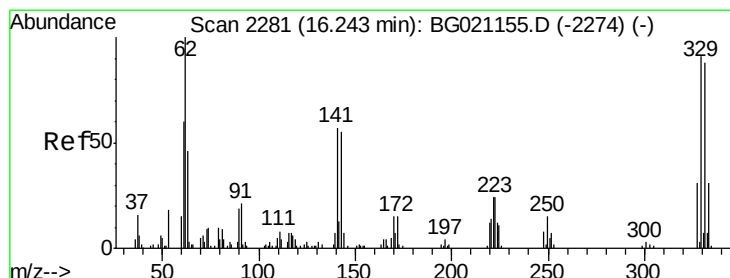
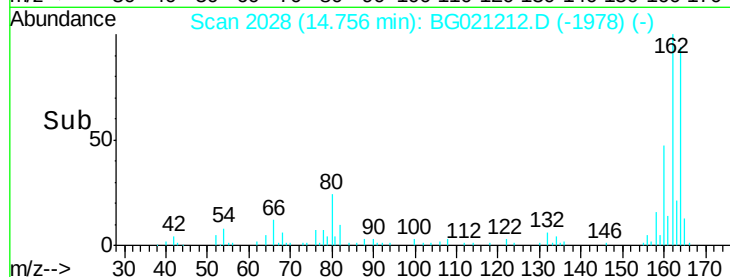
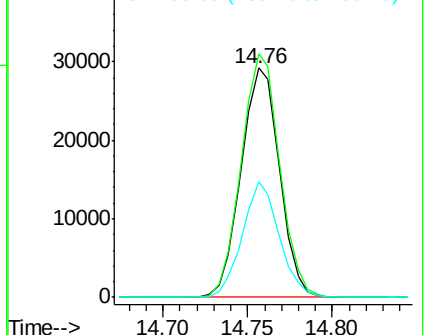
160 50.3 36.5 54.7



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: 2.89 ng

RT: 16.24 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

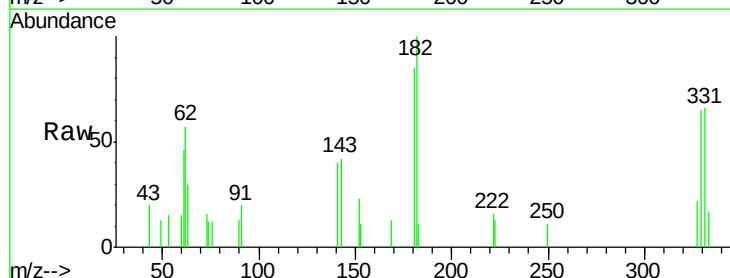
Tgt Ion:330 Resp: 1389

Ion Ratio Lower Upper

330 100

332 97.8 77.4 116.0

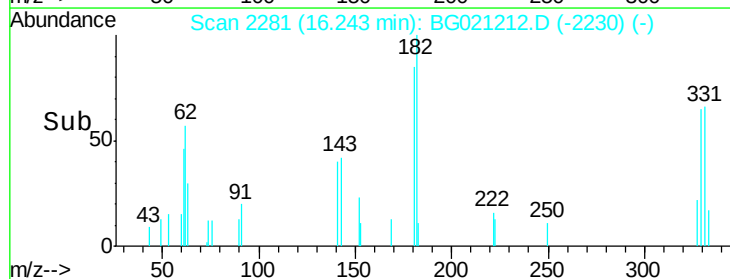
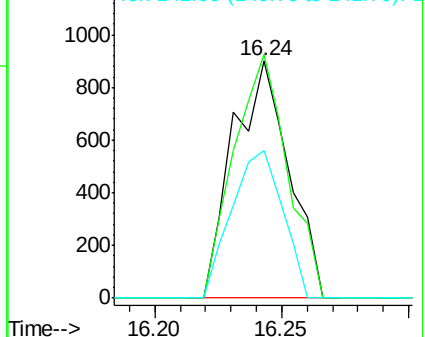
141 56.7 35.3 52.9#

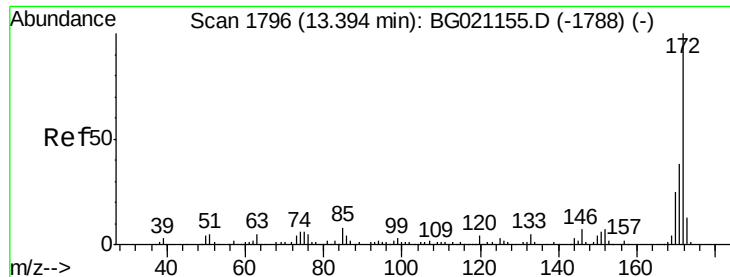


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

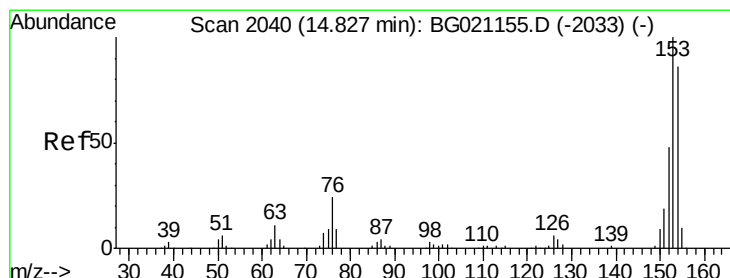
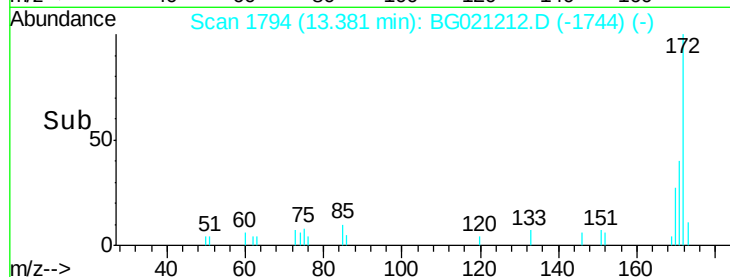
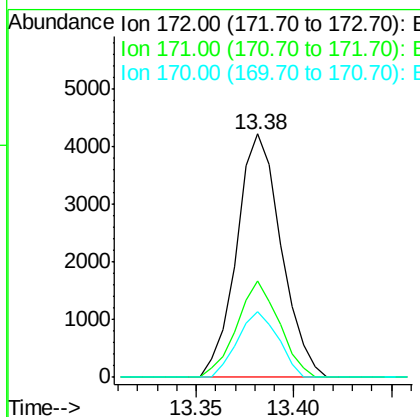
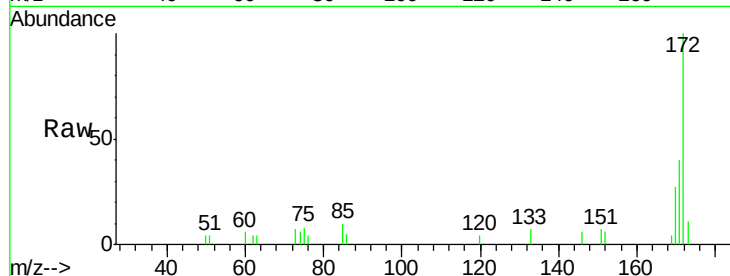




#44
2-Fluorobiphenyl
Concen: 2.05 ng
RT: 13.38 min Scan# 1794
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

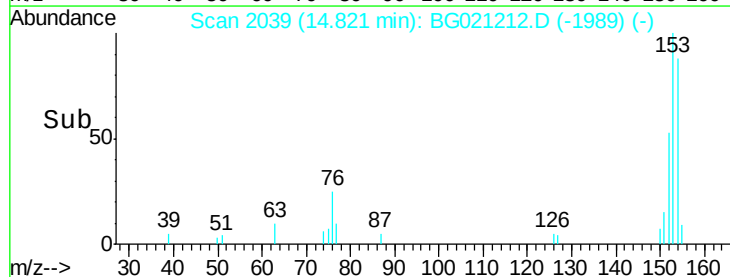
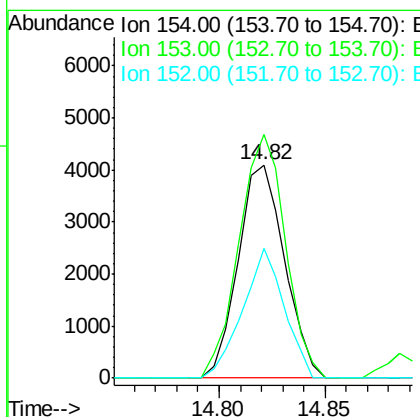
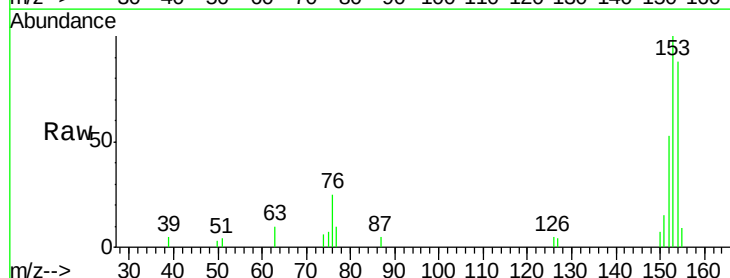
Instrument :
BNA_G
ClientSampleId :

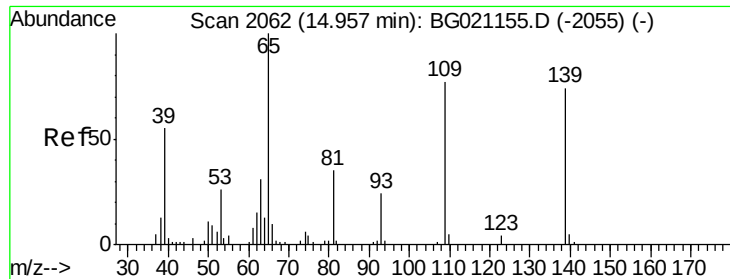
Tot Ion:172 Resp: 6671
Ion Ratio Lower Upper
172 100
171 39.8 29.4 44.0
170 26.9 19.8 29.8



#51
Acenaphthene
Concen: 2.04 ng
RT: 14.82 min Scan# 2039
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:154 Resp: 6245
Ion Ratio Lower Upper
154 100
153 114.2 94.2 141.2
152 61.0 42.9 64.3

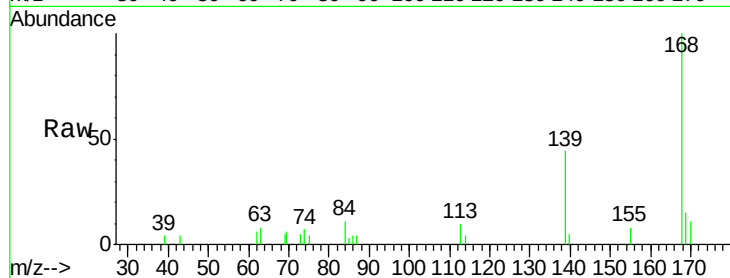




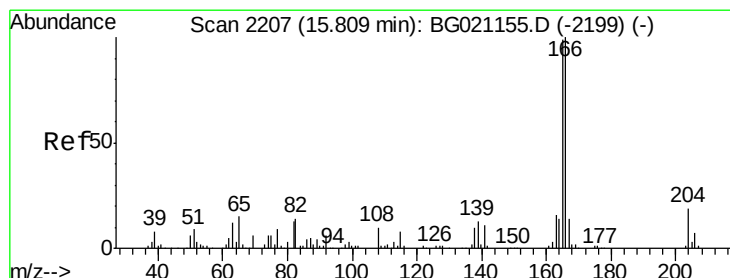
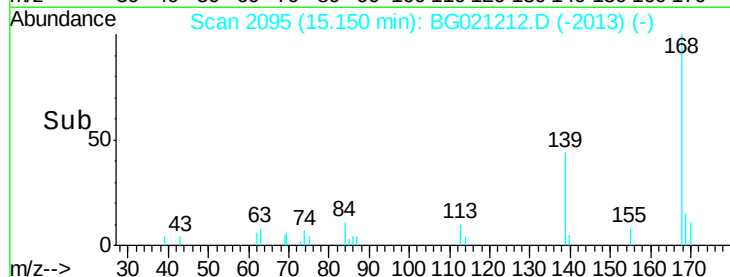
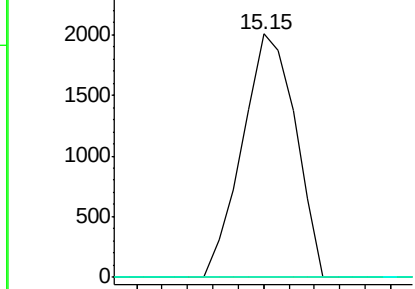
#55
4-Nitrophenol
Concen: 3.70 ng
RT: 15.15 min Scan# 2095
Delta R.T. 0.18 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Instrument :
BNA_G
ClientSampled :

Tot Ion:139 Resp: 2927
Ion Ratio Lower Upper
139 100
109 0.0 54.1 94.1#
65 0.0 73.4 113.4#

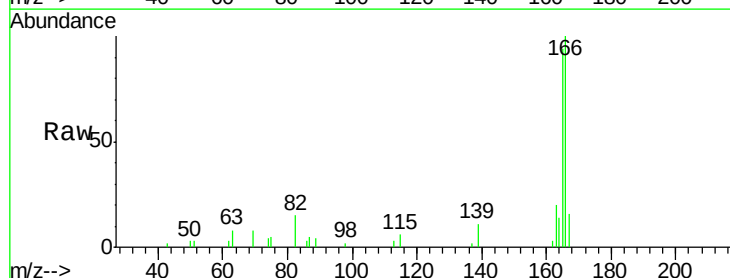


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): B

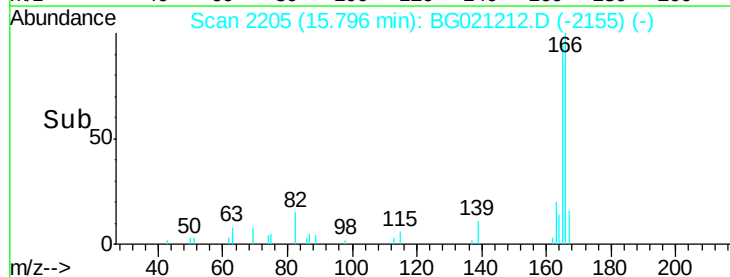
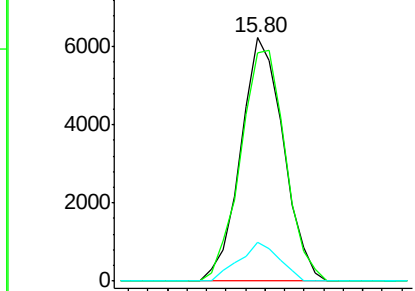


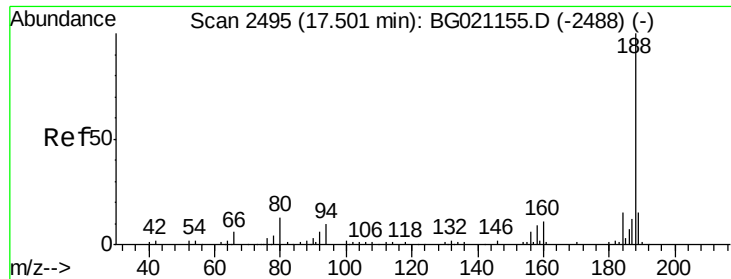
#57
Fluorene
Concen: 2.42 ng
RT: 15.80 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:166 Resp: 9422
Ion Ratio Lower Upper
166 100
165 93.9 81.3 121.9
167 15.9 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

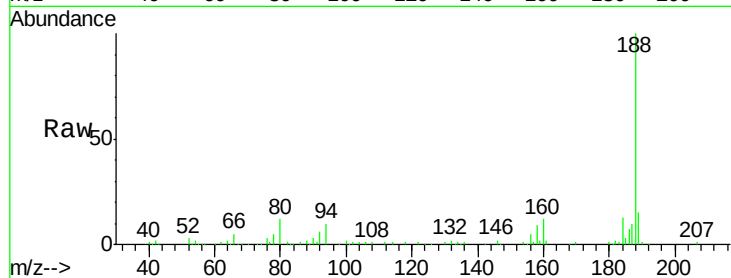




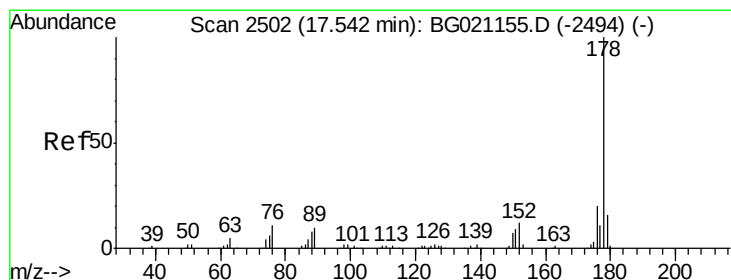
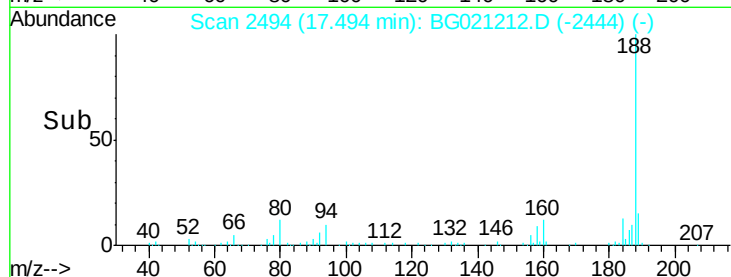
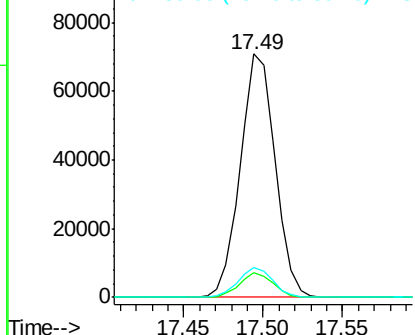
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.49 min Scan# 2494
 Delta R.T. -0.01 min
 Lab File: BG021212.D
 Acq: 2 Mar 2016 14:25

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.4
80	12.1	9.2	13.8

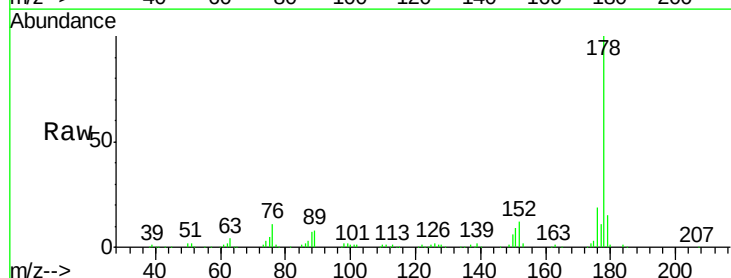


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGC
 Ion 80.00 (79.70 to 80.70): BGC

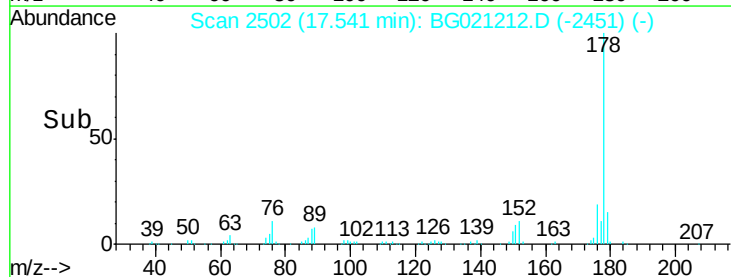
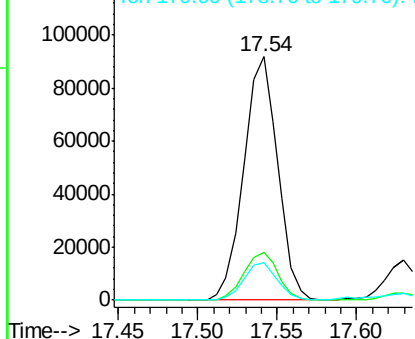


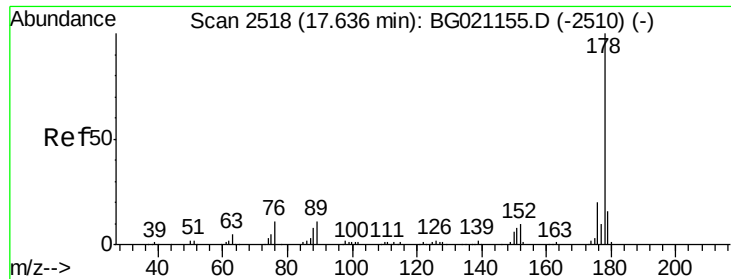
#70
 Phenanthrene
 Concen: 23.42 ng
 RT: 17.54 min Scan# 2502
 Delta R.T. -0.00 min
 Lab File: BG021212.D
 Acq: 2 Mar 2016 14:25

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.2	24.4
179	15.2	12.9	19.3



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

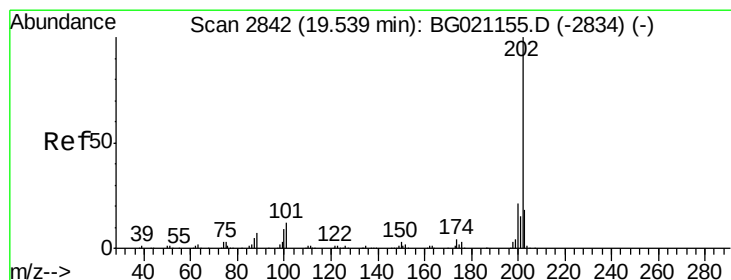
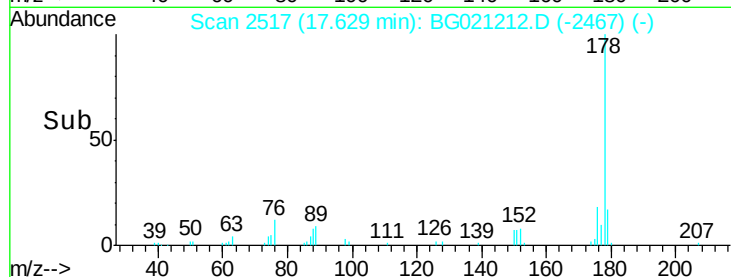
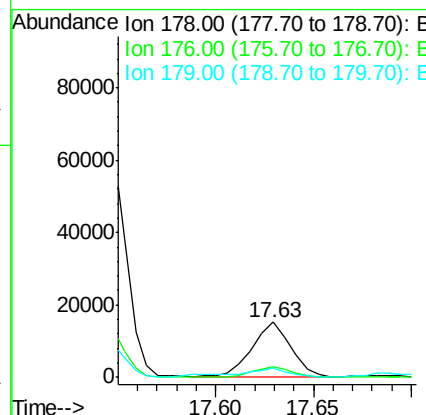
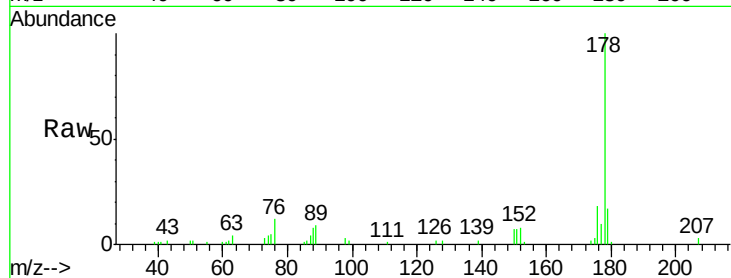




#71
 Anthracene
 Concen: 3.48 ng
 RT: 17.63 min Scan# 2517
 Delta R.T. -0.01 min
 Lab File: BG021212.D
 Acq: 2 Mar 2016 14:25

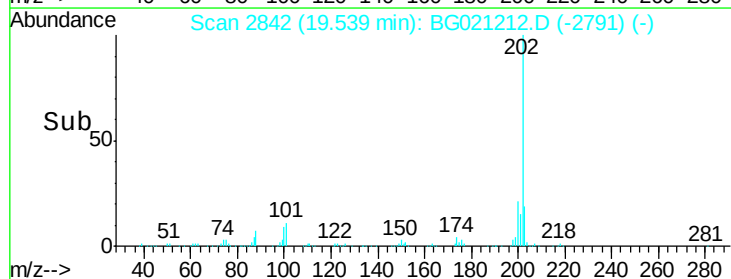
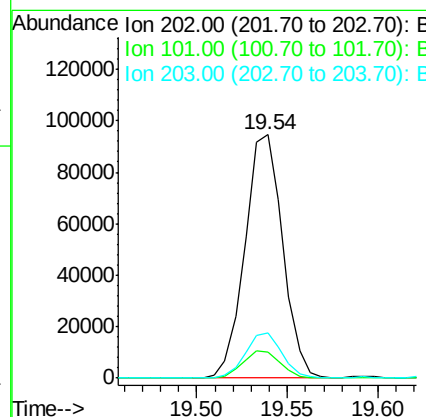
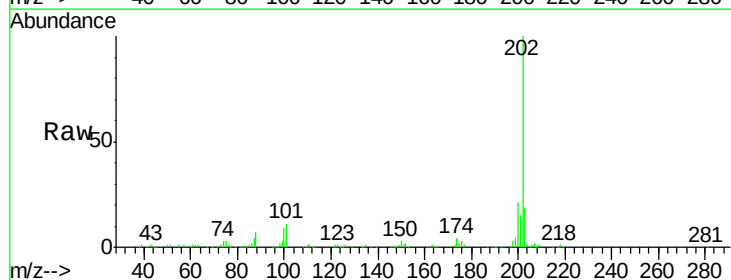
Instrument :
 BNA_G
 ClientSampleId :

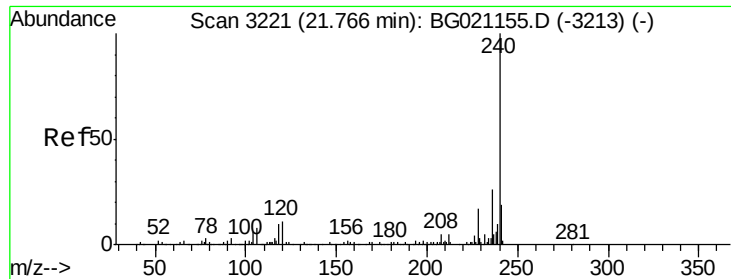
Tot Ion:178 Resp: 20761
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.8 22.2
 179 16.9 12.6 19.0



#74
 Fluoranthene
 Concen: 19.98 ng
 RT: 19.54 min Scan# 2842
 Delta R.T. -0.00 min
 Lab File: BG021212.D
 Acq: 2 Mar 2016 14:25

Tgt Ion:202 Resp: 136824
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 32.5
 203 18.5 0.0 37.6

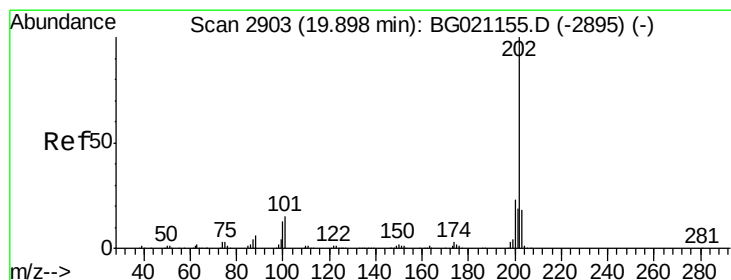
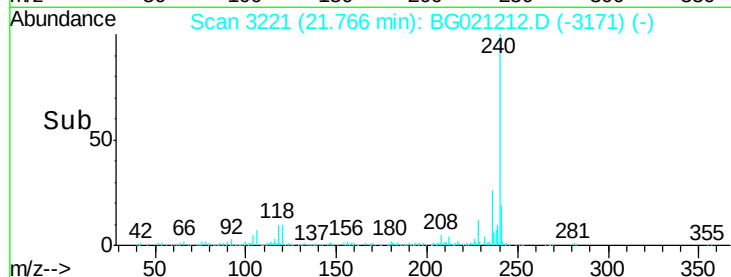
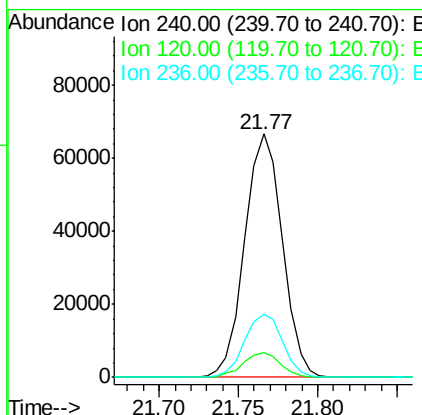
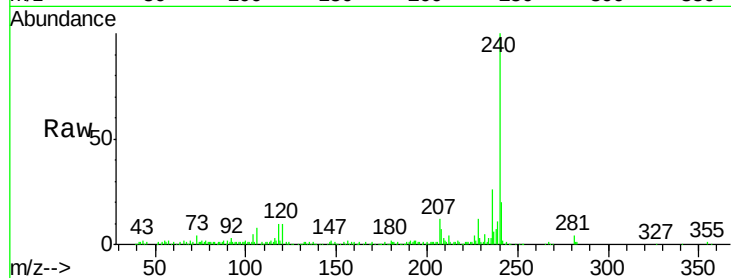




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.77 min Scan# 3221
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

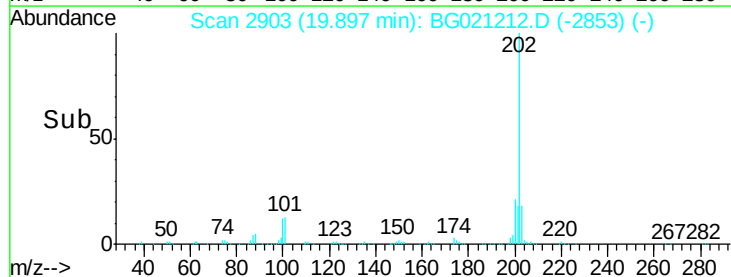
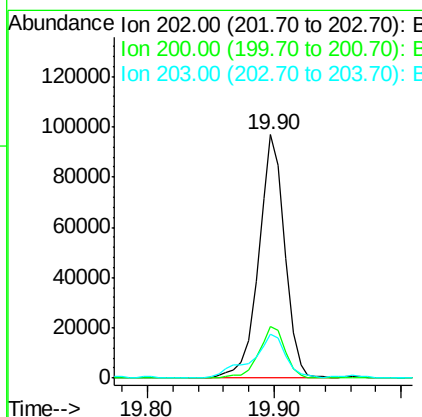
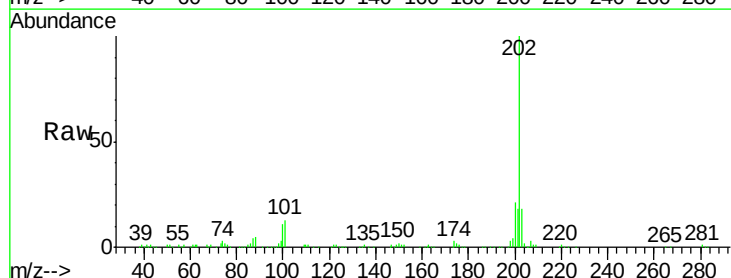
Instrument :
BNA_G
ClientSampleId :

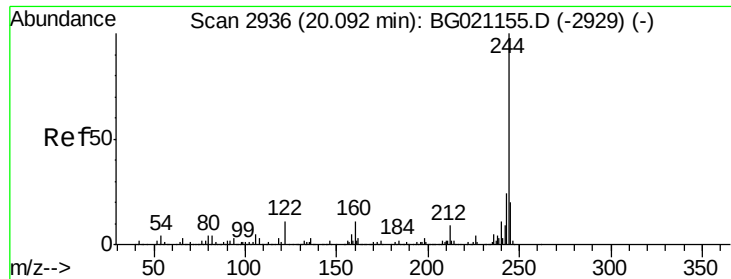
Tot Ion:240 Resp: 110148
Ion Ratio Lower Upper
240 100
120 10.1 7.5 11.3
236 25.8 20.5 30.7



#77
Pyrene
Concen: 21.12 ng
RT: 19.90 min Scan# 2903
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:202 Resp: 138812
Ion Ratio Lower Upper
202 100
200 21.3 16.6 25.0
203 18.2 13.8 20.8





#78

Terphenyl-d14

Concen: 1.99 ng

RT: 20.09 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Instrument :

BNA_G

ClientSampleId :

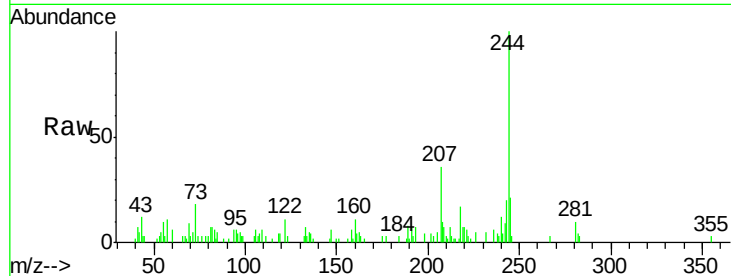
Tot Ion:244 Resp: 9063

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

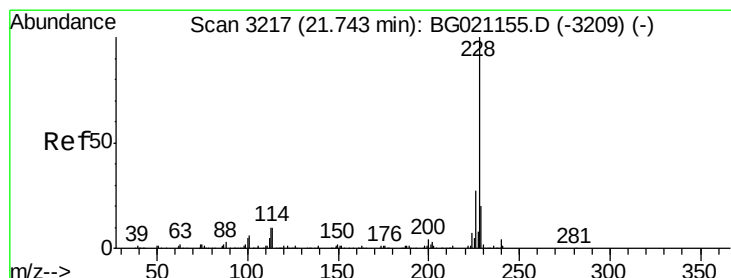
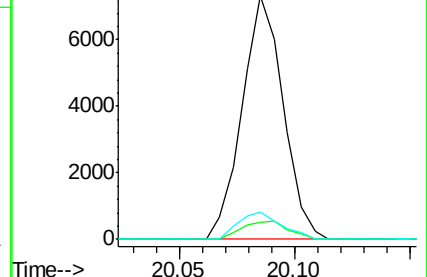
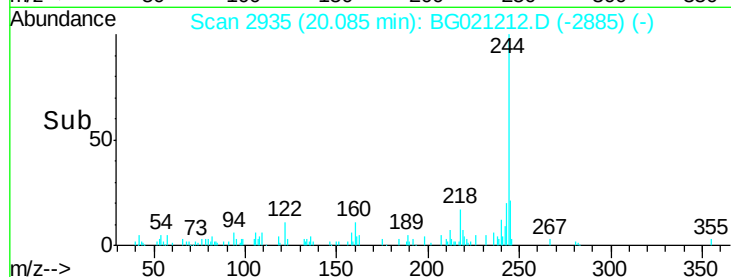
122 11.2 8.3 12.5



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: 9.05 ng

RT: 21.75 min Scan# 3218

Delta R.T. -0.01 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

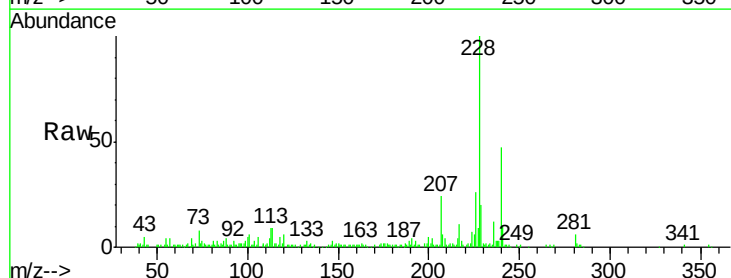
Tgt Ion:228 Resp: 59039

Ion Ratio Lower Upper

228 100

226 26.1 22.7 34.1

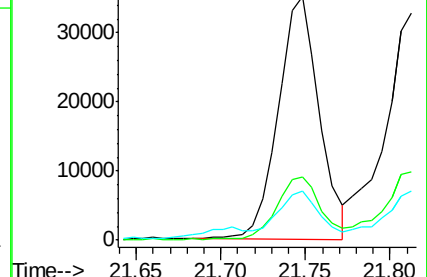
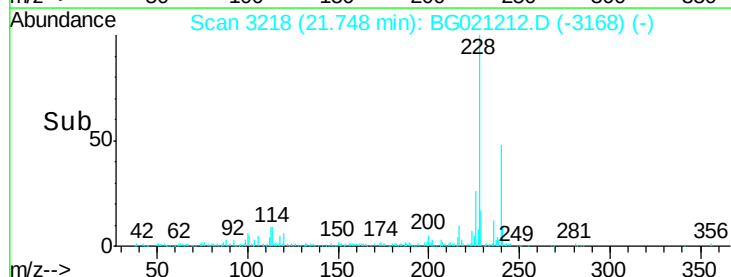
229 19.9 15.5 23.3

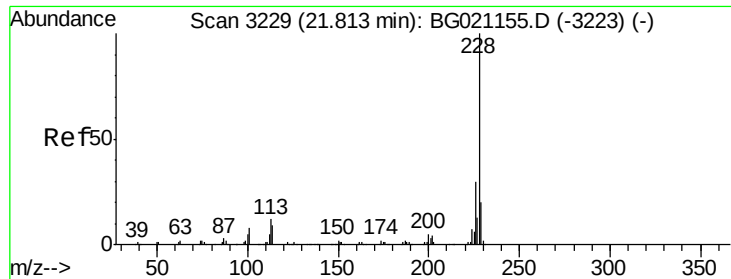


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.07 ng

RT: 21.81 min Scan# 3229

Delta R.T. -0.01 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Instrument :

BNA_G

ClientSampled :

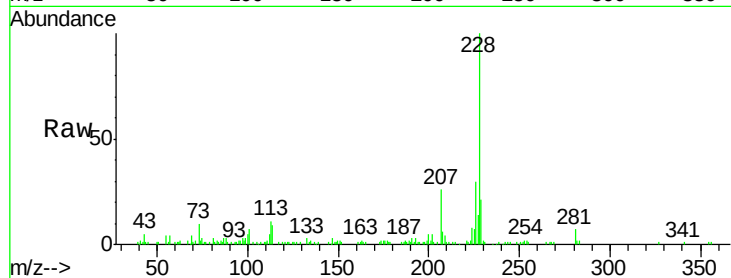
Tot Ion:228 Resp: 62227

Ion Ratio Lower Upper

228 100

226 29.9 23.7 35.5

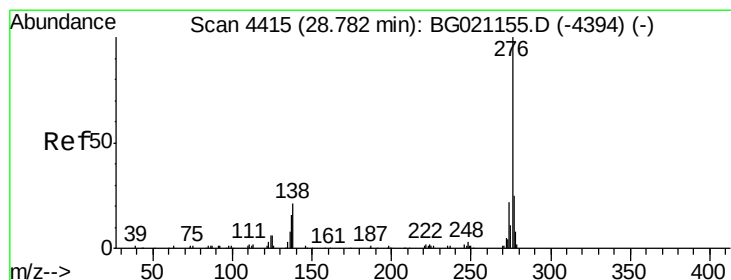
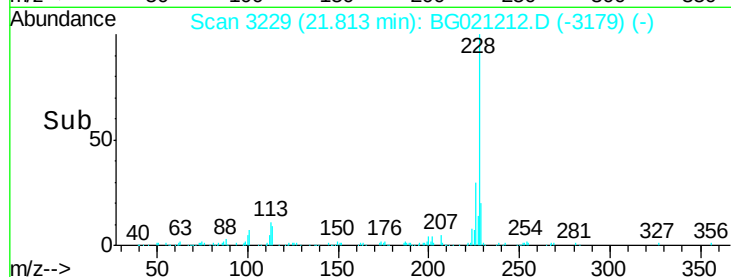
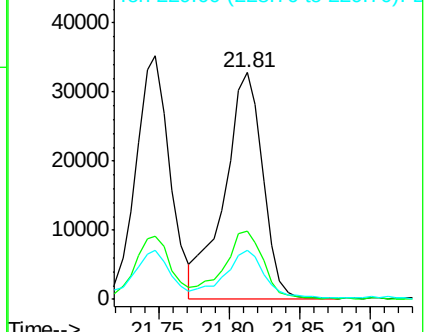
229 21.4 16.7 25.1



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: 4.14 ng

RT: 28.78 min Scan# 4414

Delta R.T. -0.05 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

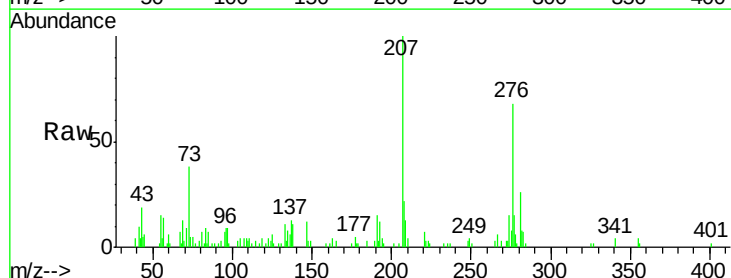
Tgt Ion:276 Resp: 29342

Ion Ratio Lower Upper

276 100

138 21.5 16.0 24.0

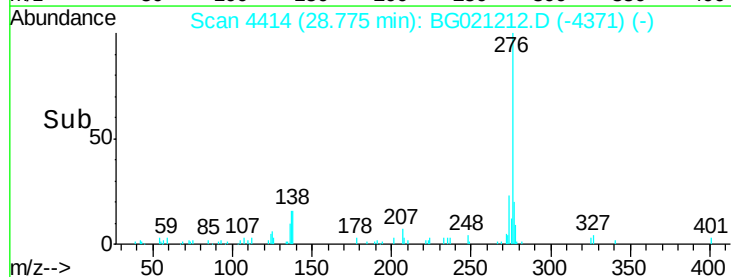
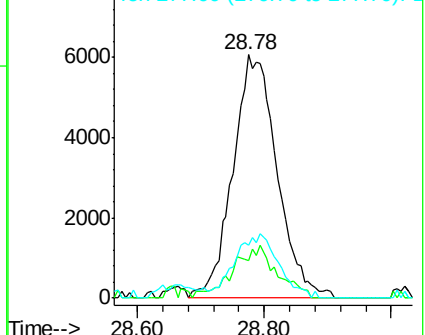
277 25.9 16.0 24.0#

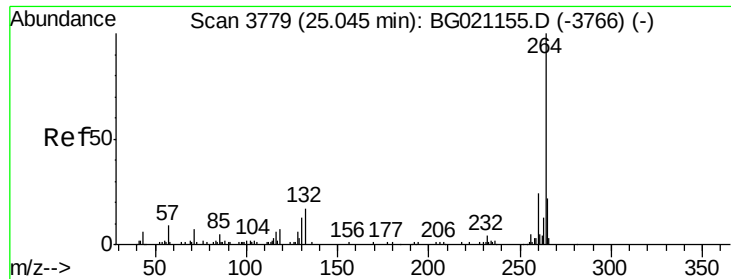


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



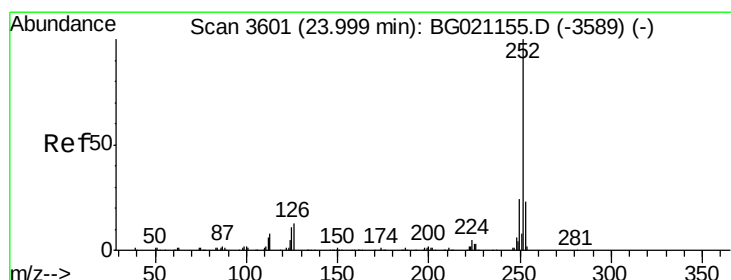
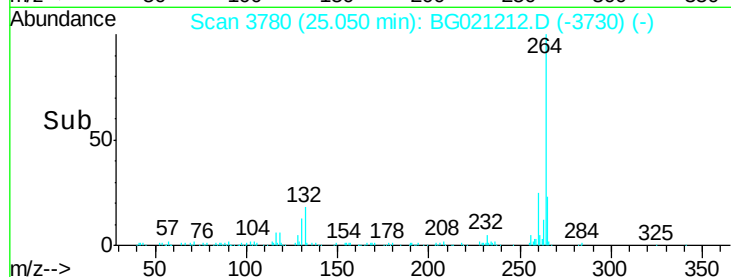
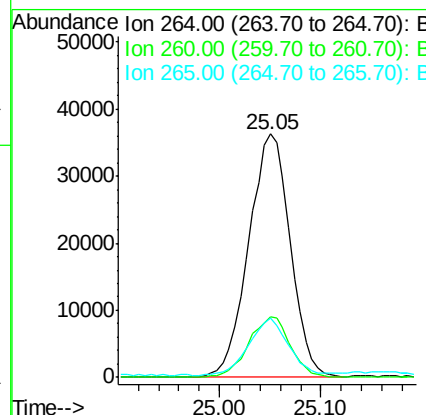
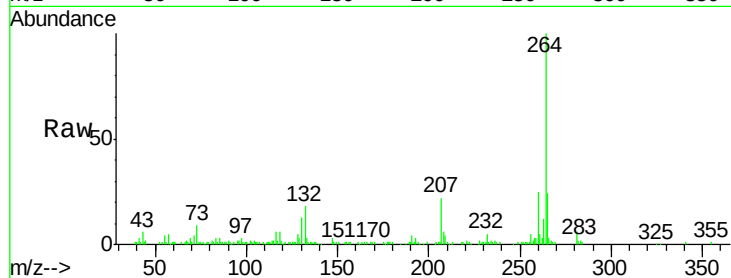


#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.05 min Scan# 3780
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Instrument :
BNA_G
ClientSampleId :

Tot Ion:264 Resp: 103306

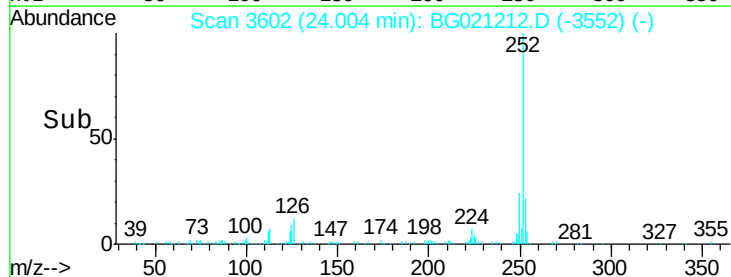
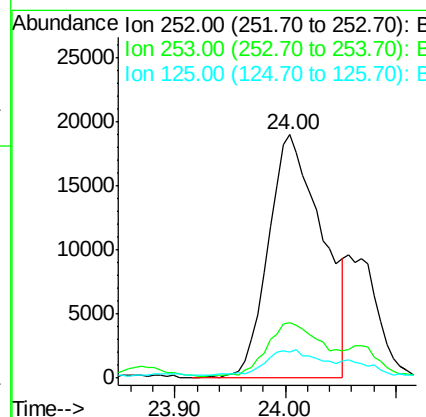
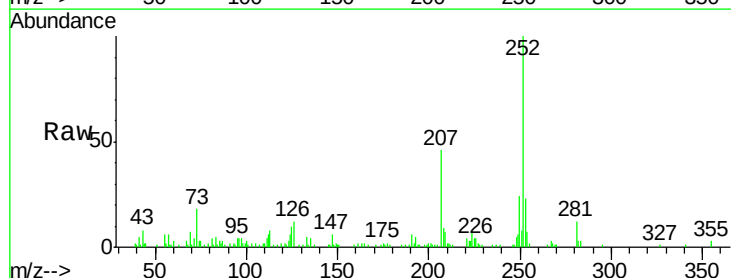
Ion	Ratio	Lower	Upper
264	100		
260	25.0	18.5	27.7
265	24.1	18.6	28.0

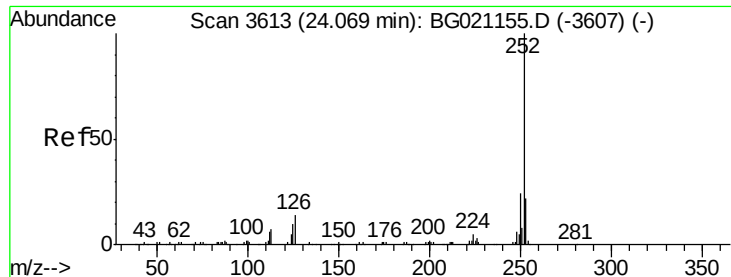


#87
Benzo(b)fluoranthene
Concen: 9.94 ng
RT: 24.00 min Scan# 3602
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:252 Resp: 64557

Ion	Ratio	Lower	Upper
252	100		
253	22.5	16.8	25.2
125	10.5	8.2	12.2

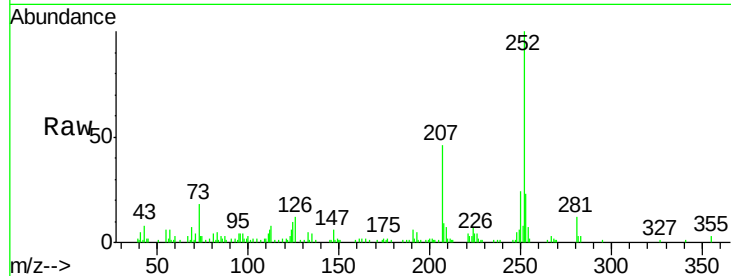




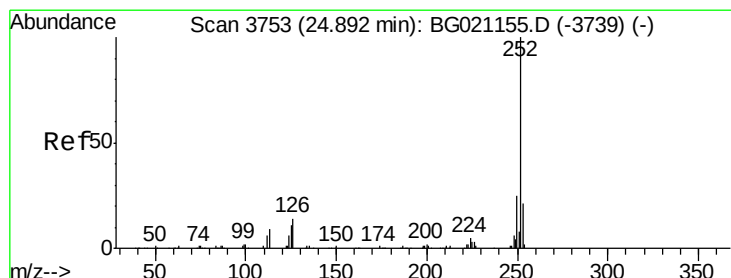
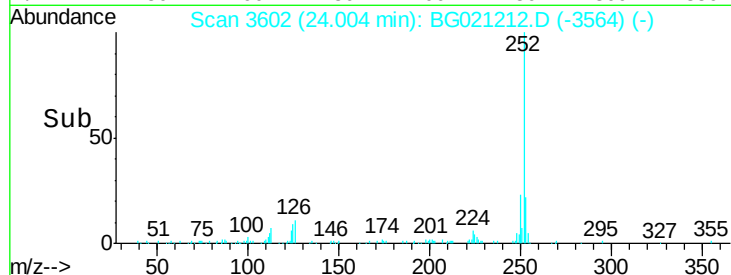
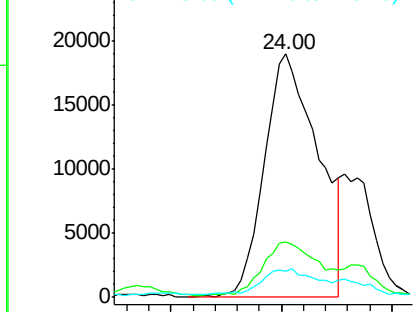
#88
Benzo(k)fluoranthene
Concen: 9.92 ng
RT: 24.00 min Scan# 3602
Delta R.T. -0.08 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Instrument :
BNA_G
ClientSampled :

Tot Ion:252 Resp: 64557
Ion Ratio Lower Upper
252 100
253 22.5 16.4 24.6
125 10.5 8.2 12.2

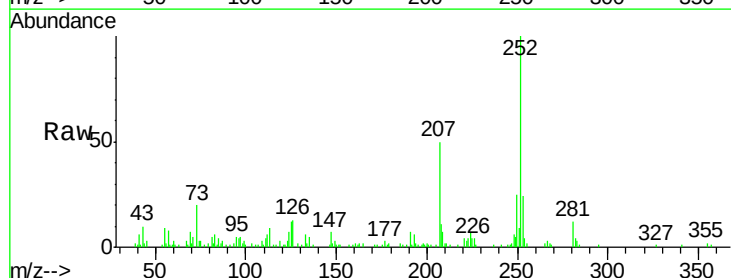


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

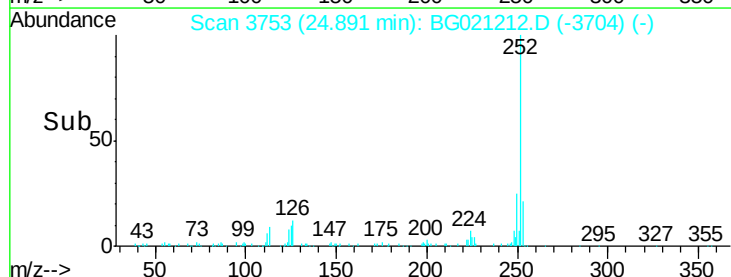
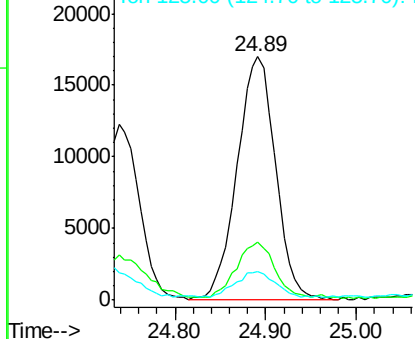


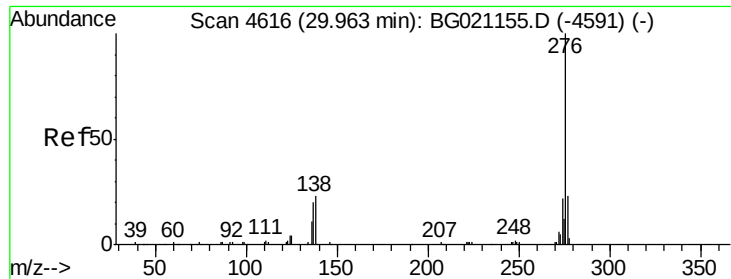
#89
Benzo(a)pyrene
Concen: 7.98 ng
RT: 24.89 min Scan# 3753
Delta R.T. -0.01 min
Lab File: BG021212.D
Acq: 2 Mar 2016 14:25

Tgt Ion:252 Resp: 50115
Ion Ratio Lower Upper
252 100
253 23.6 15.8 23.8
125 12.0 8.4 12.6



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(a,h,i)perylene

Concen: 4.68 ng

RT: 29.95 min Scan# 4614

Delta R.T. -0.05 min

Lab File: BG021212.D

Acq: 2 Mar 2016 14:25

Instrument :

BNA_G

ClientSampleId :

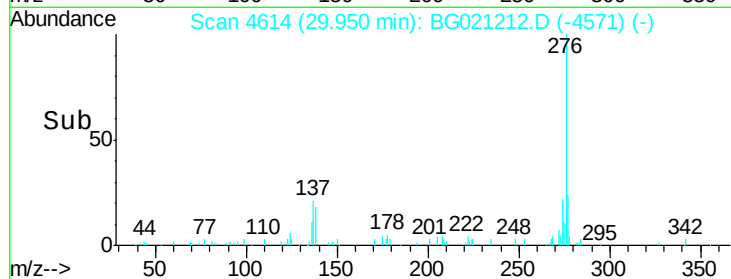
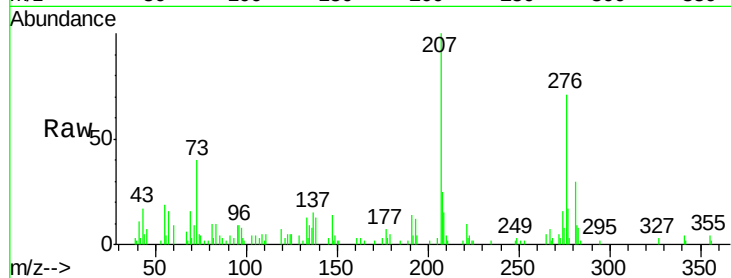
Tot Ion: 276 Resp: 28077

Ion Ratio Lower Upper

276 100

277 24.0 16.6 25.0

138 18.1 14.6 21.8



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

