

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\
 Data File : BG021214.D
 Acq On : 2 Mar 2016 15:44
 Operator : UM/SJ
 Sample : H1578-04RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Mar 03 00:10:47 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 11:46:16 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	12030	20.00	ng	-0.02
21) Naphthalene-d8	10.96	136	60434	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	37384	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	85197	20.00	ng	0.00
75) Chrysene-d12	21.77	240	89789	20.00	ng	0.00
86) Perylene-d12	25.05	264	85086	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	10597	14.00	ng	0.00
7) Phenol-d6	7.30	99	114169	91.75	ng	0.00
23) Nitrobenzene-d5	9.31	82	104934	73.47	ng	0.00
41) 2,4,6-Tribromophenol	16.23	330	1924	4.95	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	187249	71.12	ng	0.00
78) Terphenyl-d14	20.09	244	248084	66.94	ng	0.00

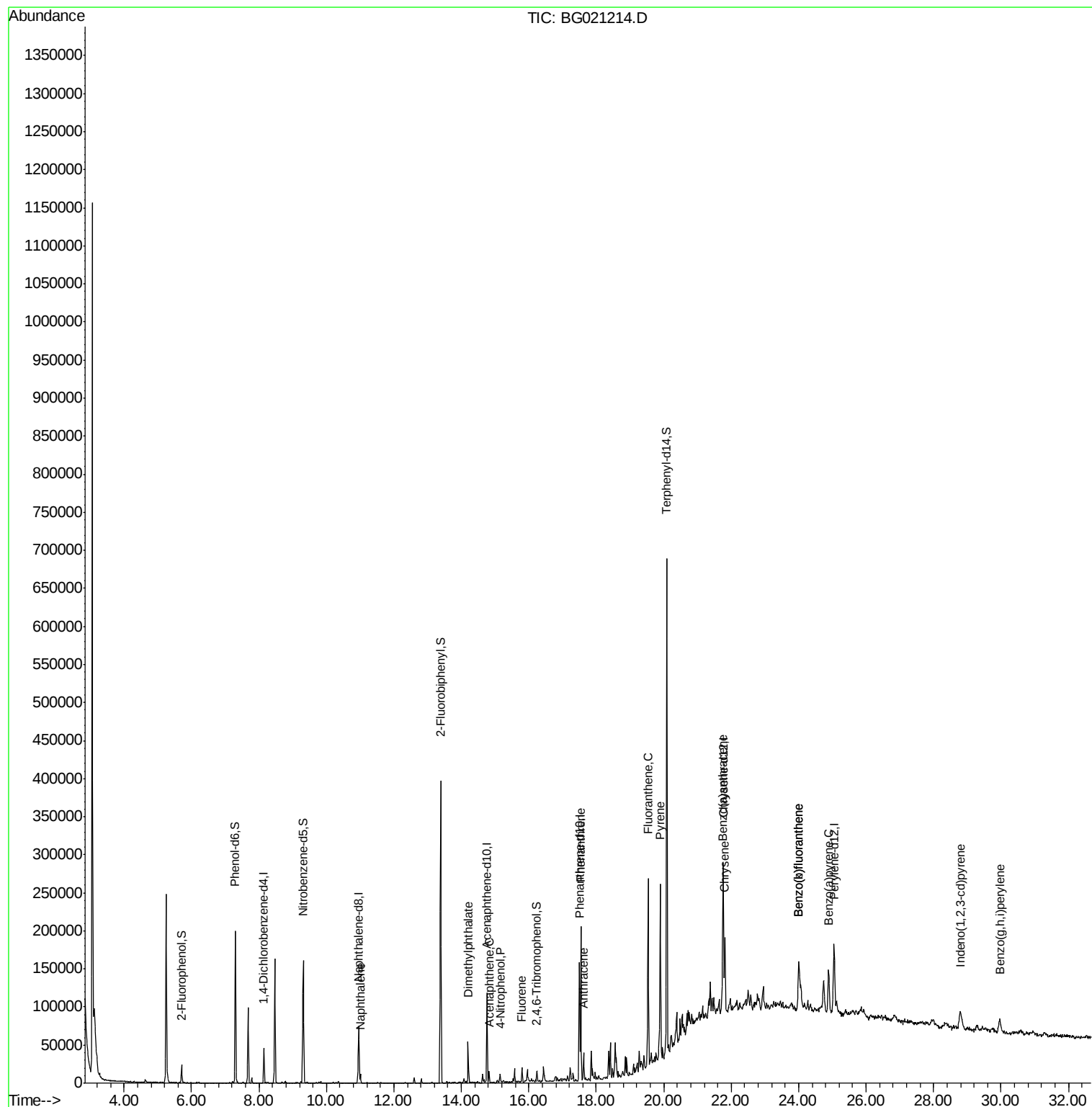
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	11.00	128	8924	2.83	ng	99
49) Dimethylphthalate	14.21	163	30987	9.30	ng	99
51) Acenaphthene	14.82	154	5519	2.23	ng	99
55) 4-Nitrophenol	15.15	139	2480	3.87	ng	# 7
57) Fluorene	15.80	166	8581	2.72	ng	# 95
70) Phenanthrene	17.54	178	117472	25.55	ng	99
71) Anthracene	17.63	178	21370	4.54	ng	98
74) Fluoranthene	19.54	202	137130	25.39	ng	98
77) Pyrene	19.90	202	141089	26.34	ng	98
80) Benzo(a)anthracene	21.75	228	66839	12.57	ng	97
82) Chrysene	21.81	228	63871	12.68	ng	99
85) Indeno(1,2,3-cd)pyrene	28.80	276	34047	5.89	ng	# 91
87) Benzo(b)fluoranthene	24.01	252	75320	14.07	ng	# 93
88) Benzo(k)fluoranthene	24.01	252	75320	14.05	ng	# 93
89) Benzo(a)pyrene	24.89	252	58348	11.28	ng	# 93
91) Benzo(g,h,i)perylene	29.97	276	34841	7.05	ng	94

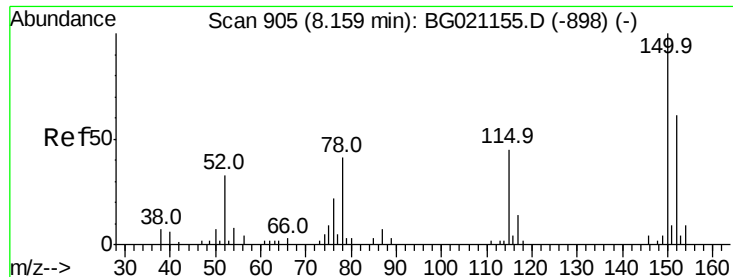
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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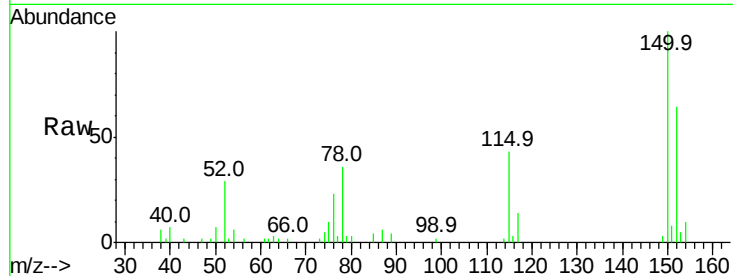


#1

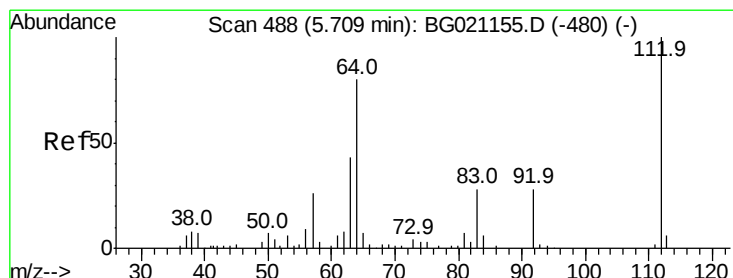
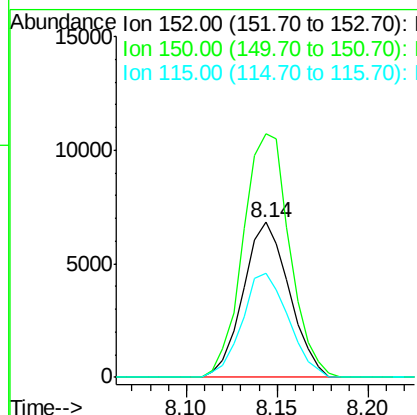
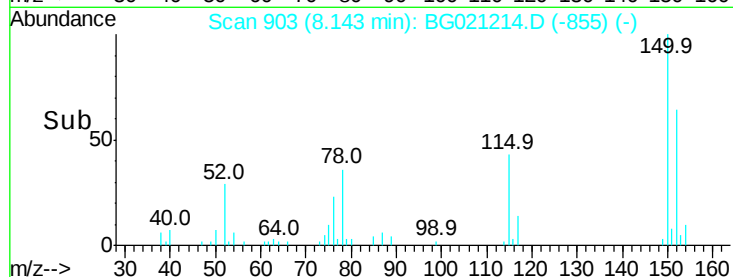
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 903
Delta R.T. -0.02 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 12030
Ion Ratio Lower Upper
152 100
150 156.8 123.4 185.2
115 66.8 43.3 64.9#



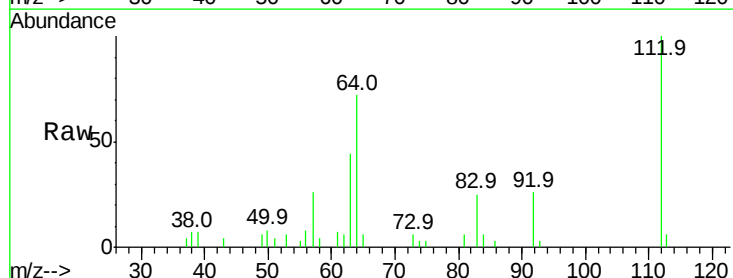
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



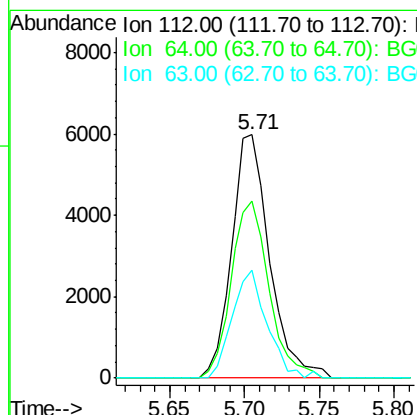
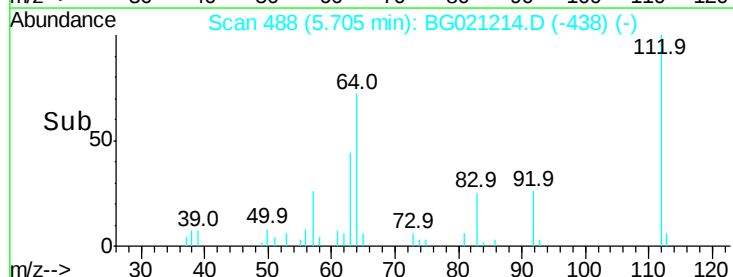
#5

2-Fluorophenol
Concen: 14.00 ng
RT: 5.71 min Scan# 488
Delta R.T. -0.00 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

Tgt Ion:112 Resp: 10597
Ion Ratio Lower Upper
112 100
64 72.5 42.6 63.8#
63 44.1 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: 91.75 ng

RT: 7.30 min Scan# 760

Delta R.T. 0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

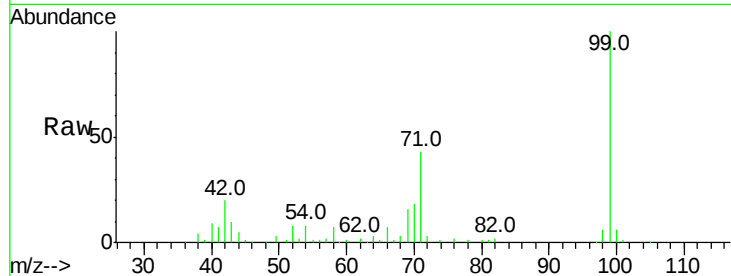
Tot Ion: 99 Resp: 114169

Ion Ratio Lower Upper

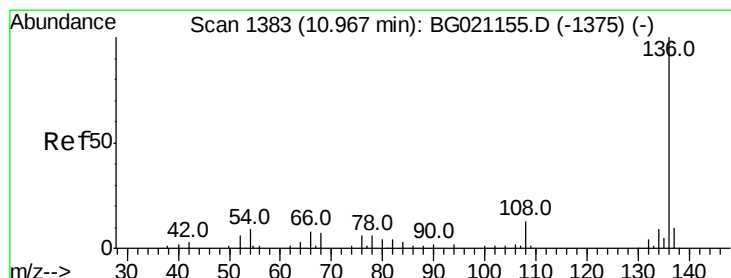
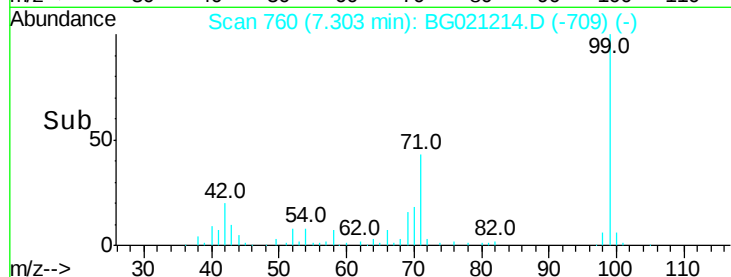
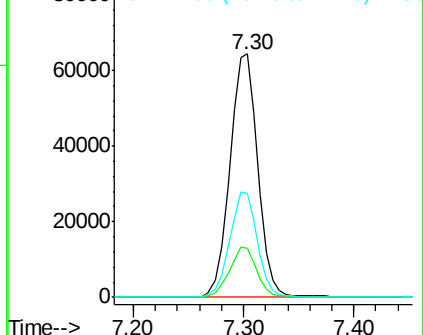
99 100

42 20.1 13.2 19.8#

71 42.6 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: 10.96 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Tgt Ion: 136 Resp: 60434

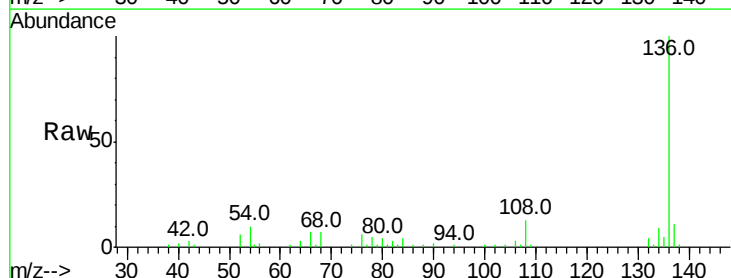
Ion Ratio Lower Upper

136 100

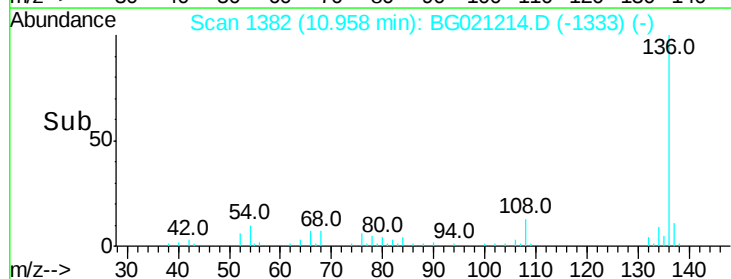
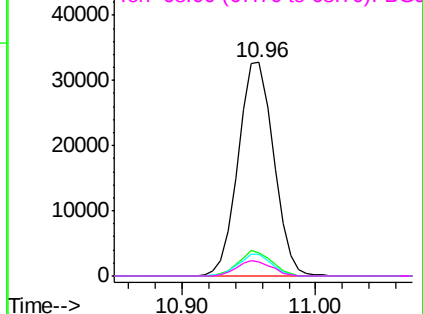
137 11.0 8.8 13.2

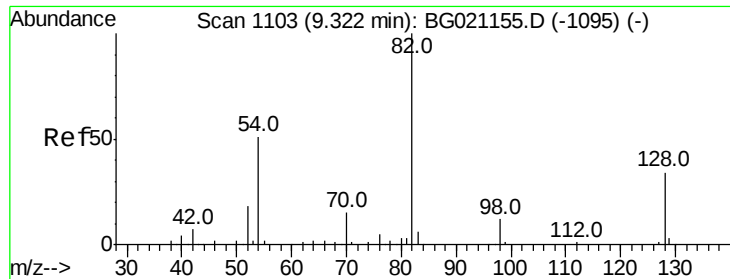
54 10.4 6.9 10.3#

68 6.7 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

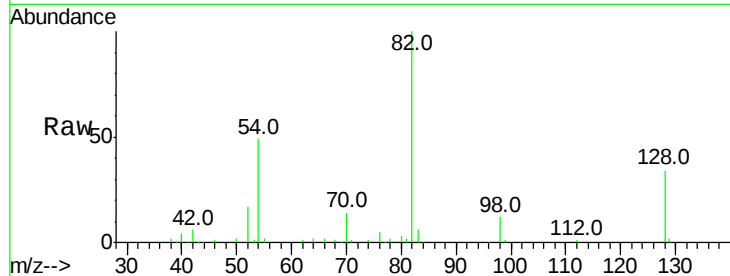




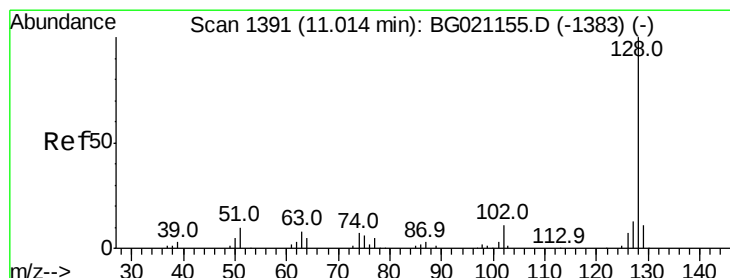
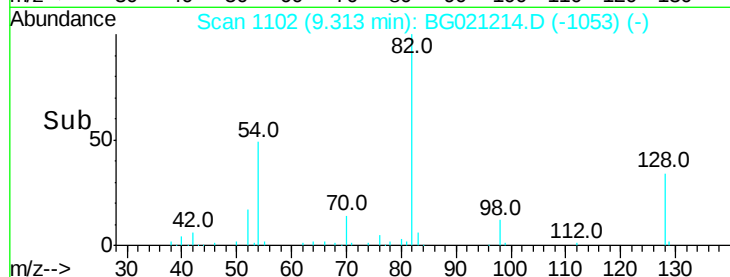
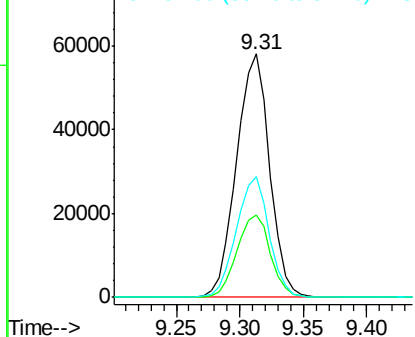
#23
 Nitrobenzene-d5
 Concen: 73.47 ng
 RT: 9.31 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: BG021214.D
 Acq: 2 Mar 2016 15:44

Instrument :
 BNA_G
 ClientSampled :

Tot Ion: 82 Resp: 104934
 Ion Ratio Lower Upper
 82 100
 128 33.9 36.3 54.5#
 54 49.5 37.6 56.4

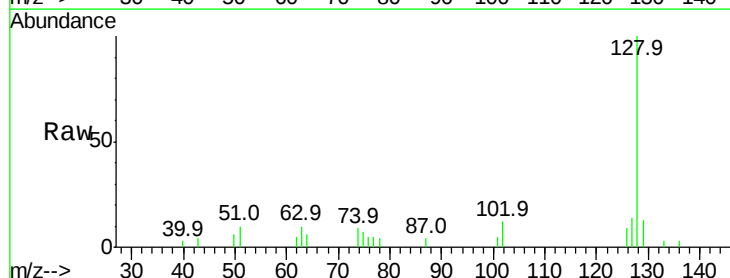


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

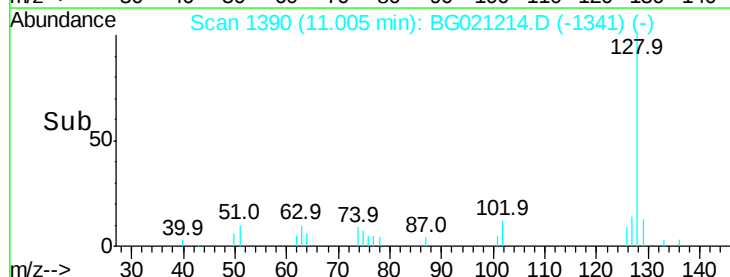
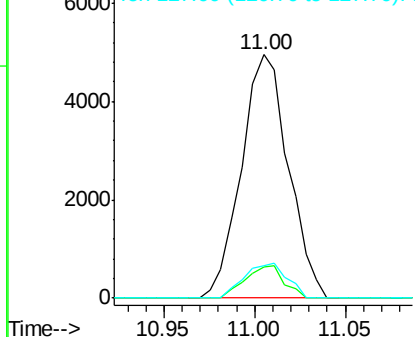


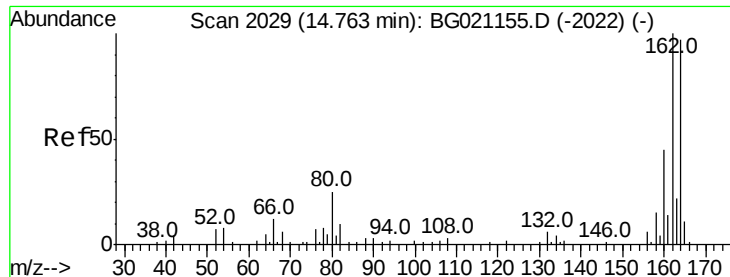
#31
 Naphthalene
 Concen: 2.83 ng
 RT: 11.00 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: BG021214.D
 Acq: 2 Mar 2016 15:44

Tgt Ion:128 Resp: 8924
 Ion Ratio Lower Upper
 128 100
 129 12.8 9.4 14.2
 127 13.5 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# 2029

Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

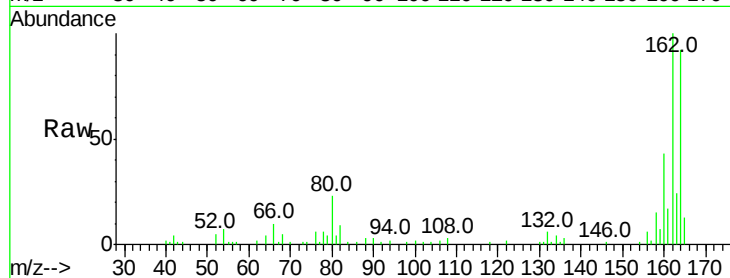
Tot Ion:164 Resp: 37384

Ion Ratio Lower Upper

164 100

162 108.8 80.6 120.8

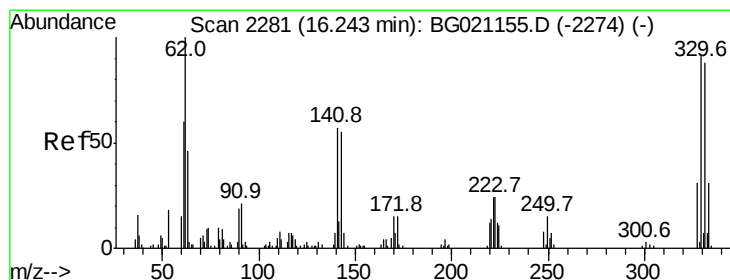
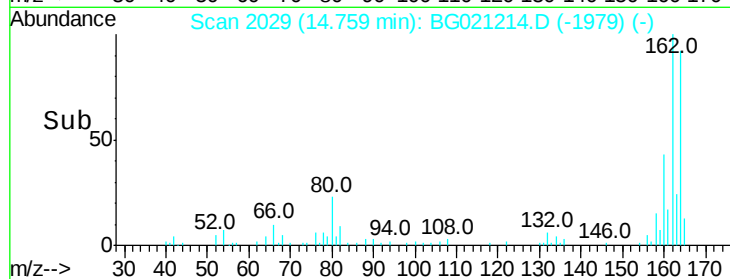
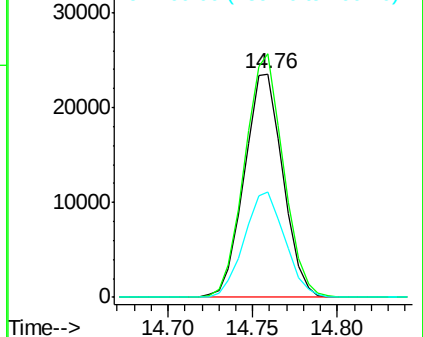
160 47.2 36.5 54.7



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: 4.95 ng

RT: 16.23 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

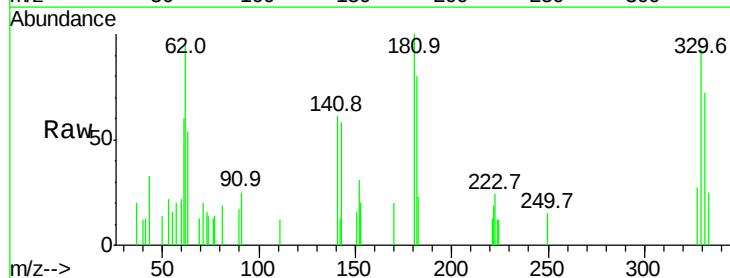
Tgt Ion:330 Resp: 1924

Ion Ratio Lower Upper

330 100

332 95.4 77.4 116.0

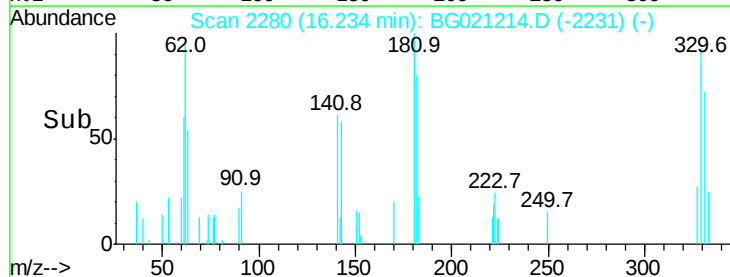
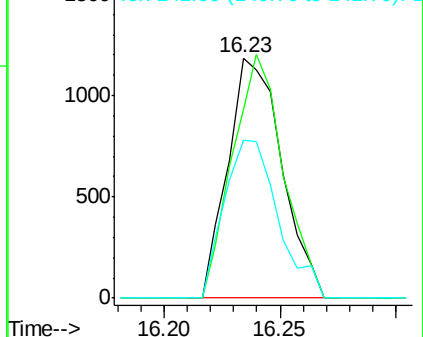
141 65.9 35.3 52.9#

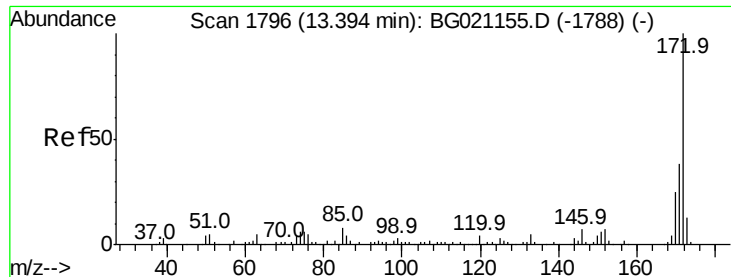


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

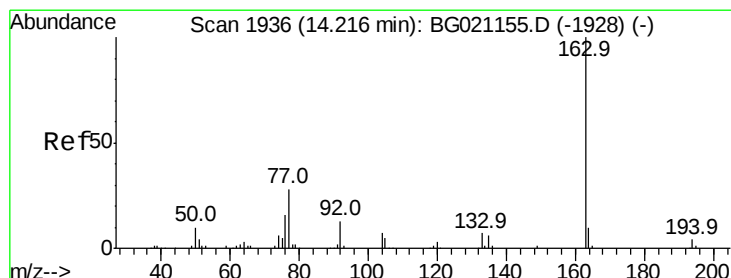
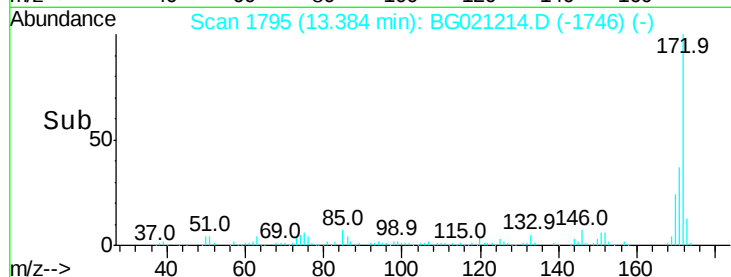
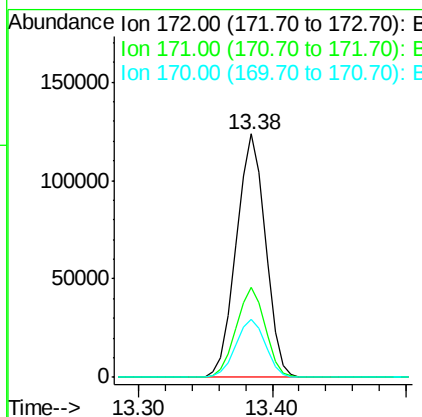
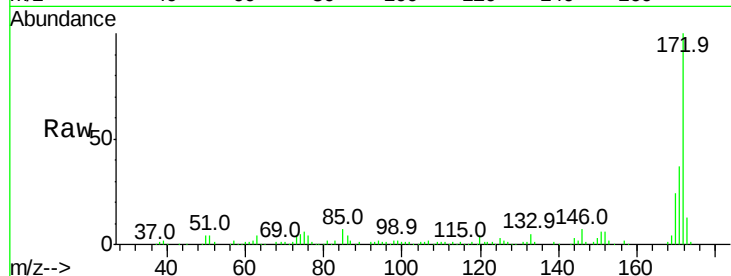




#44
2-Fluorobiphenyl
Concen: 71.12 ng
RT: 13.38 min Scan# 1795
Delta R.T. -0.01 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

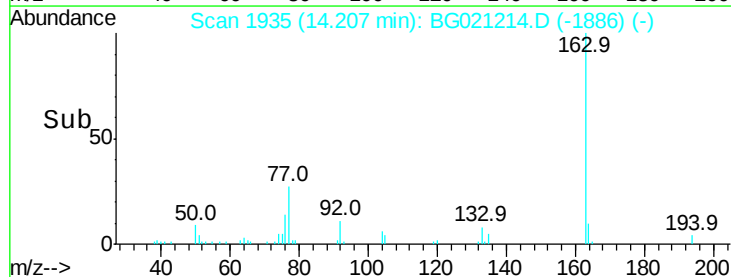
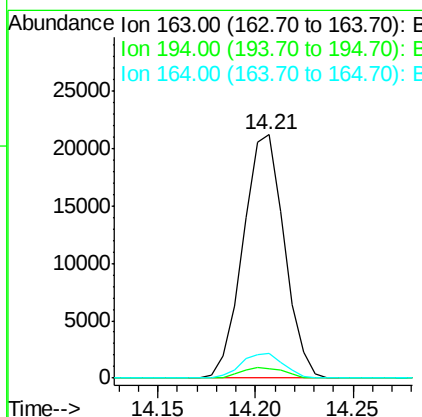
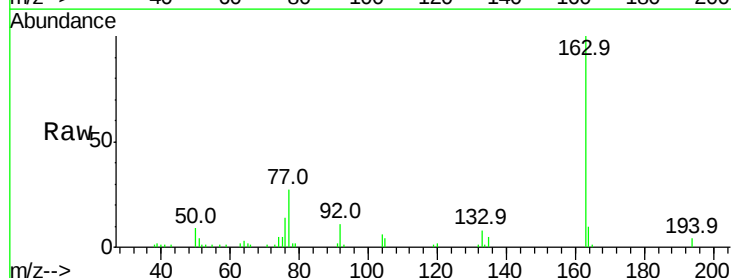
Instrument :
BNA_G
ClientSampleId :

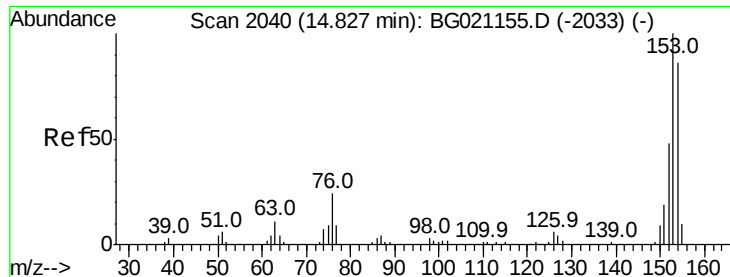
Tot Ion:172 Resp: 187249
Ion Ratio Lower Upper
172 100
171 36.9 29.4 44.0
170 24.0 19.8 29.8



#49
Dimethylphthalate
Concen: 9.30 ng
RT: 14.21 min Scan# 1935
Delta R.T. -0.01 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

Tgt Ion:163 Resp: 30987
Ion Ratio Lower Upper
163 100
194 3.8 2.8 4.2
164 10.4 7.9 11.9





#51

Acenaphthene

Concen: 2.23 ng

RT: 14.82 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

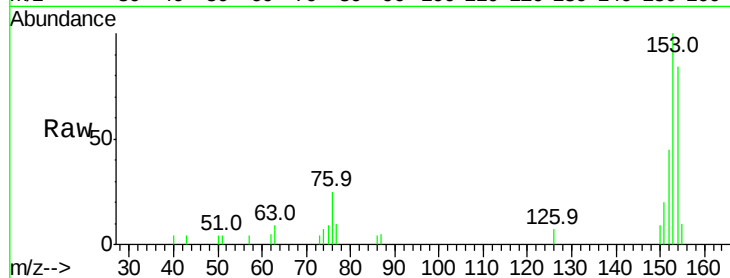
Tot Ion:154 Resp: 5519

Ion Ratio Lower Upper

154 100

153 119.3 94.2 141.2

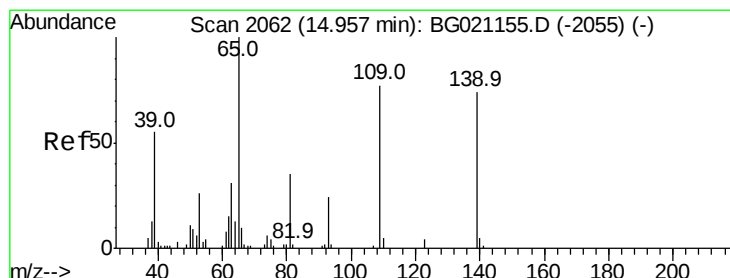
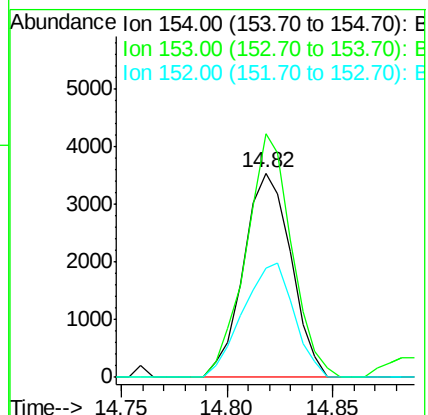
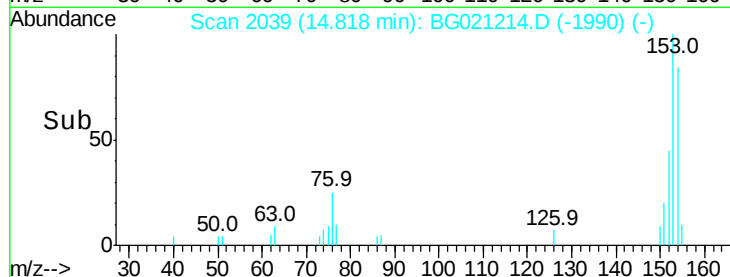
152 53.2 42.9 64.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 3.87 ng

RT: 15.15 min Scan# 2096

Delta R.T. 0.20 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

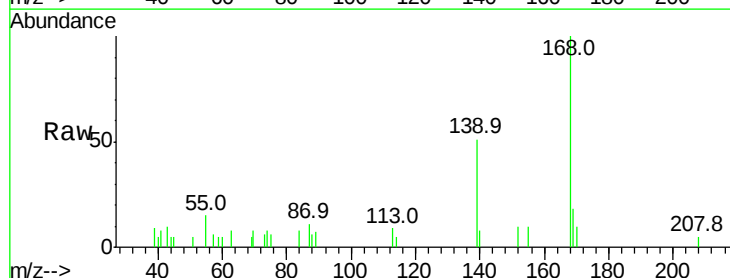
Tgt Ion:139 Resp: 2480

Ion Ratio Lower Upper

139 100

109 0.0 54.1 94.1#

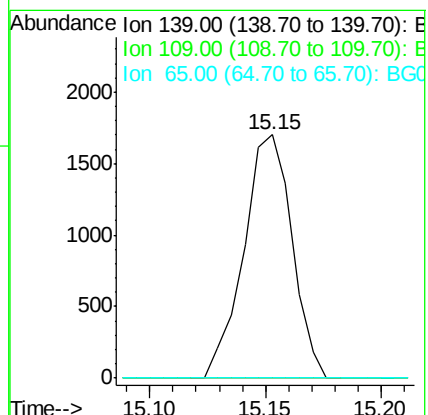
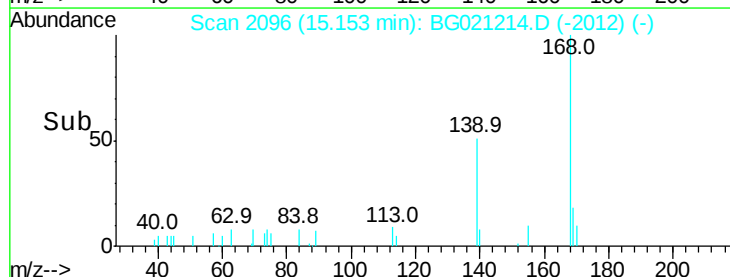
65 0.0 73.4 113.4#

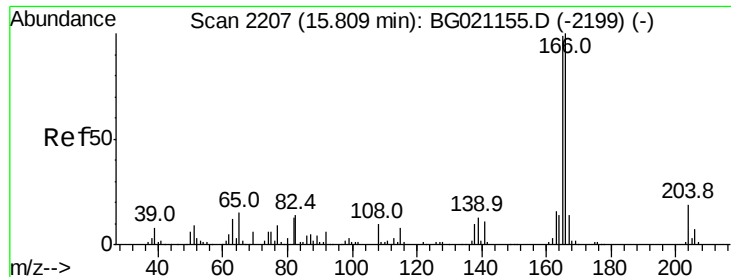


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC





#57

Fluorene

Concen: 2.72 ng

RT: 15.80 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

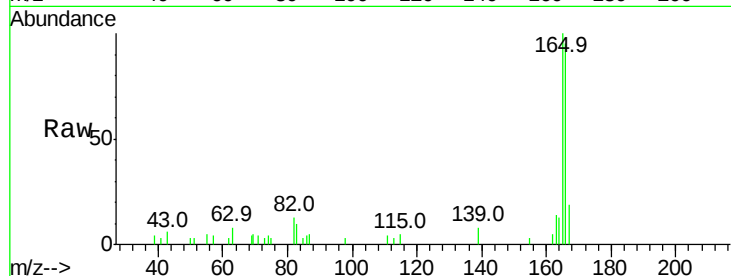
Tot Ion:166 Resp: 8581

Ion Ratio Lower Upper

166 100

165 105.0 81.3 121.9

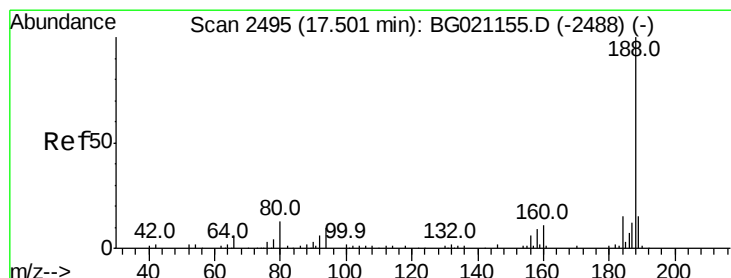
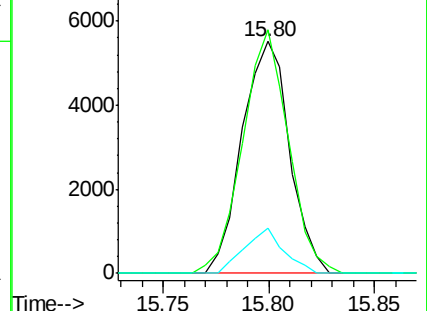
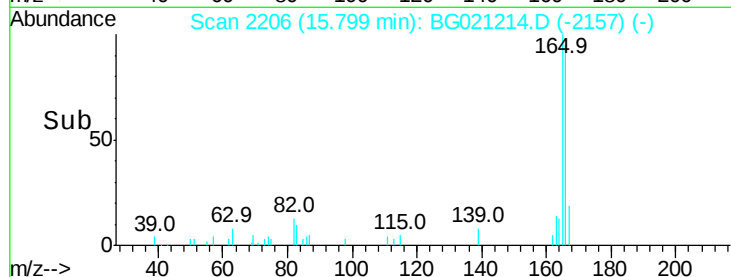
167 19.5 10.6 16.0#



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: 17.50 min Scan# 2495

Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

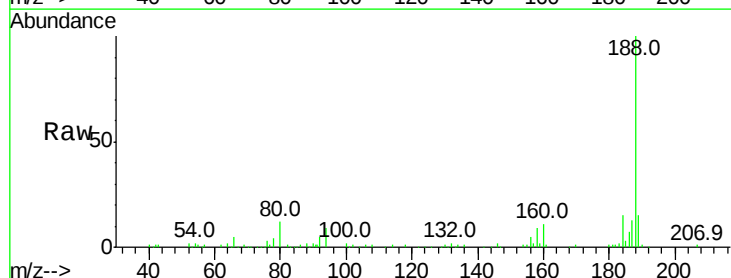
Tgt Ion:188 Resp: 85197

Ion Ratio Lower Upper

188 100

94 8.7 8.2 12.4

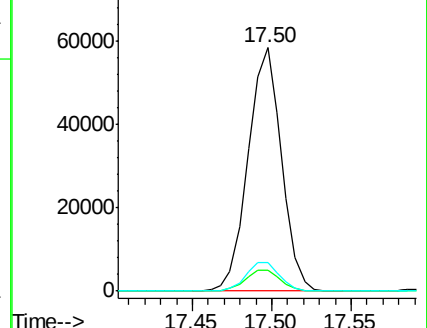
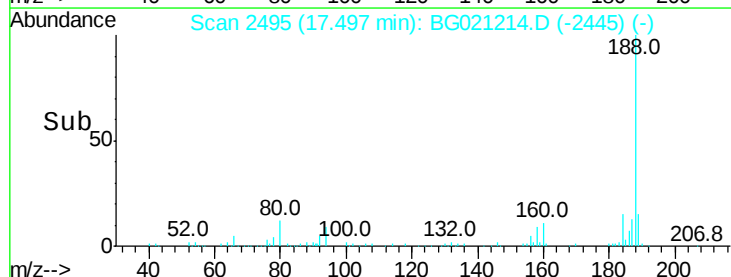
80 11.9 9.2 13.8

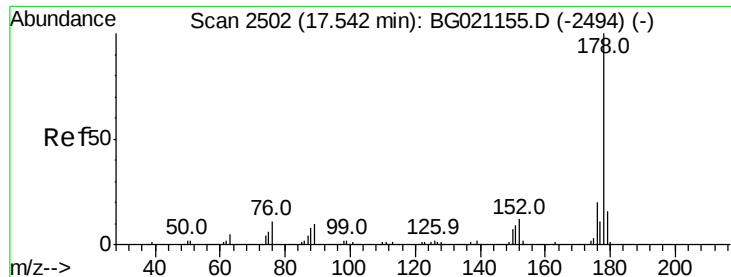


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

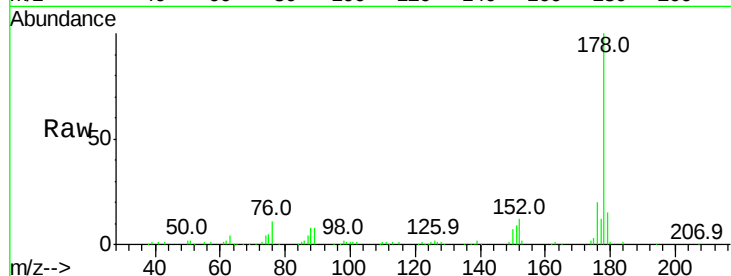




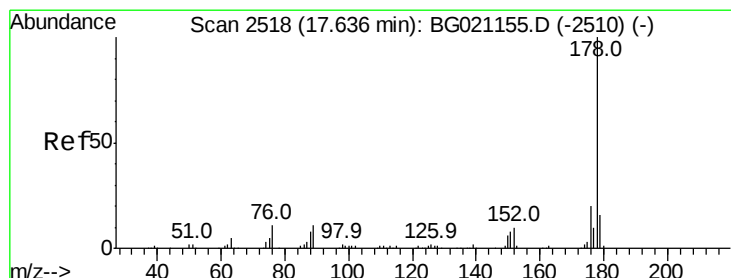
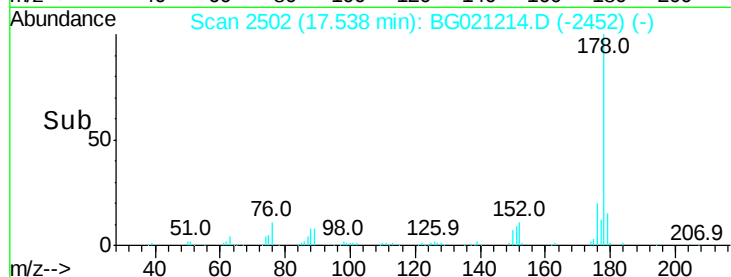
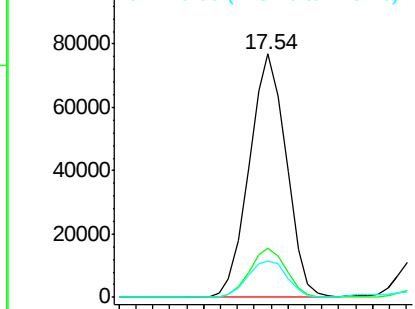
#70
Phenanthrene
Concen: 25.55 ng
RT: 17.54 min Scan# 2502
Delta R.T. -0.00 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

Instrument :
BNA_G
ClientSampled :

Tot Ion:178 Resp: 117472
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.4
179 14.9 12.9 19.3

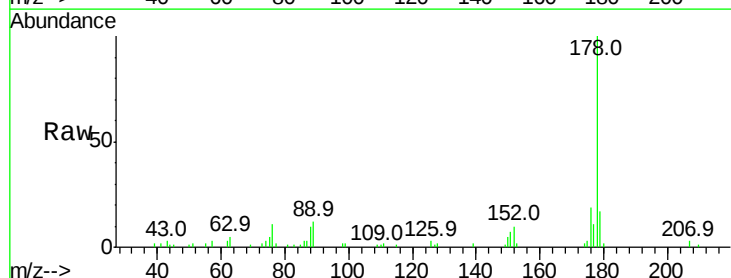


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

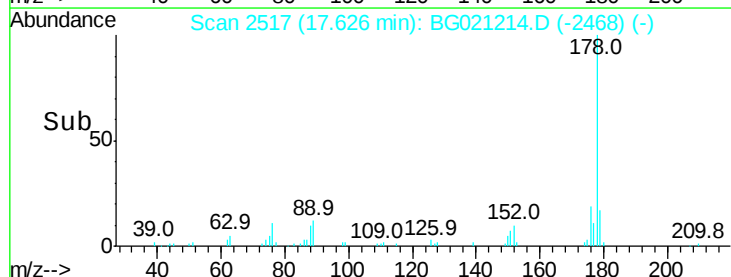
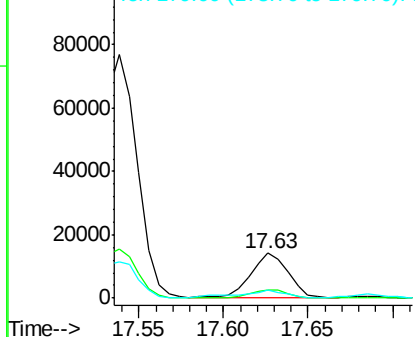


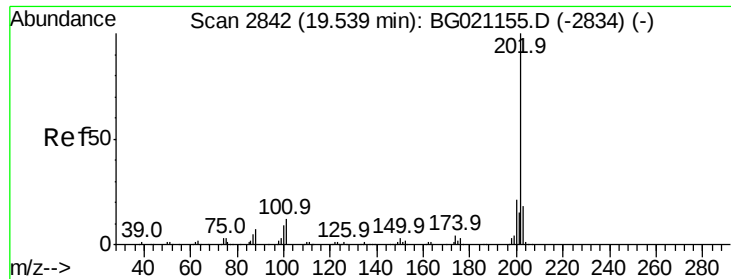
#71
Anthracene
Concen: 4.54 ng
RT: 17.63 min Scan# 2517
Delta R.T. -0.01 min
Lab File: BG021214.D
Acq: 2 Mar 2016 15:44

Tgt Ion:178 Resp: 21370
Ion Ratio Lower Upper
178 100
176 19.3 14.8 22.2
179 16.6 12.6 19.0



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





#74

Fluoranthene

Concen: 25.39 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

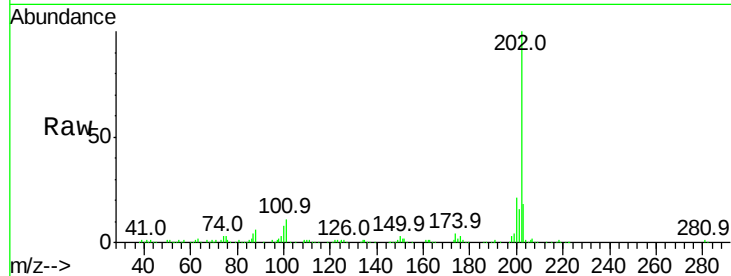
Tot Ion:202 Resp: 137130

Ion Ratio Lower Upper

202 100

101 10.7 0.0 32.5

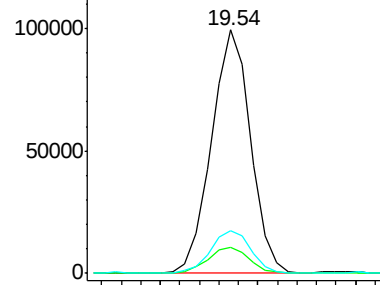
203 17.6 0.0 37.6



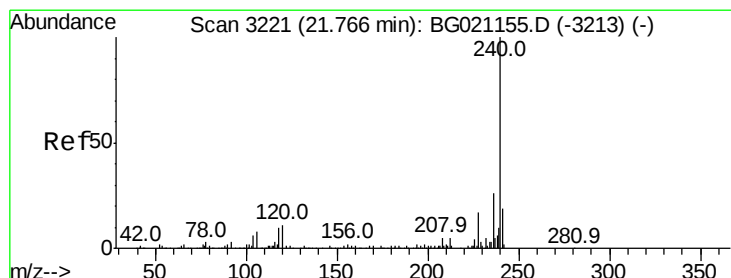
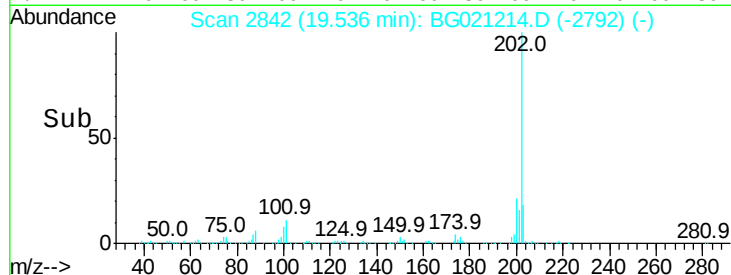
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3222

Delta R.T. 0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

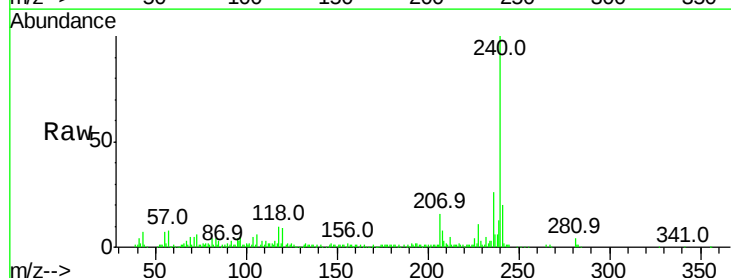
Tgt Ion:240 Resp: 89789

Ion Ratio Lower Upper

240 100

120 9.0 7.5 11.3

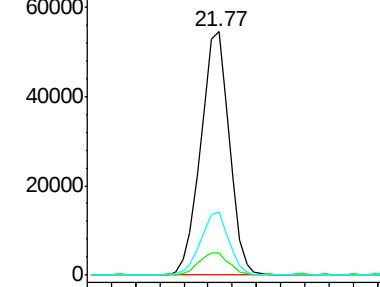
236 26.0 20.5 30.7



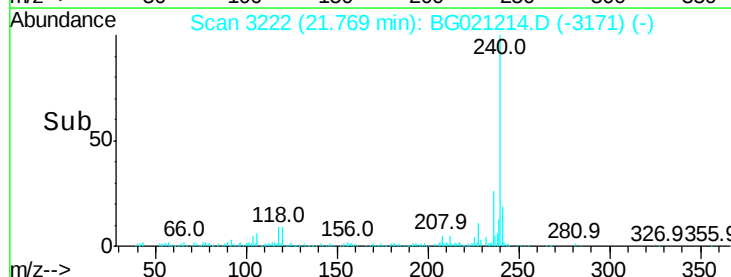
Abundance Ion 240.00 (239.70 to 240.70): E

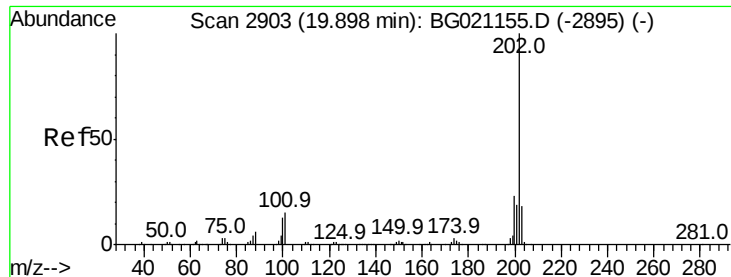
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pvrene

Concen: 26.34 ng

RT: 19.90 min Scan# 2904

Delta R.T. 0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

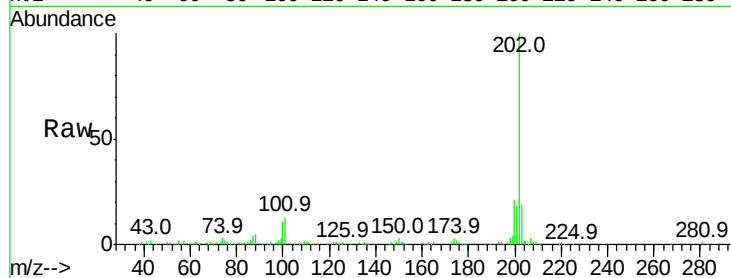
Tot Ion:202 Resp: 141089

Ion Ratio Lower Upper

202 100

200 21.2 16.6 25.0

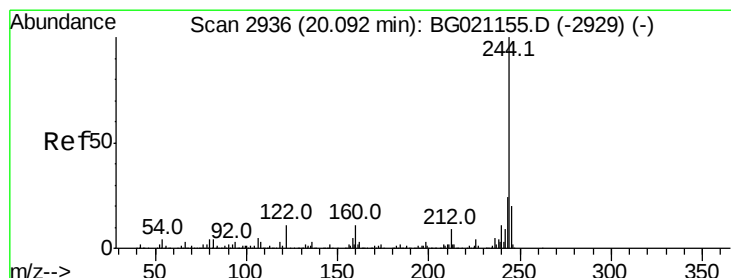
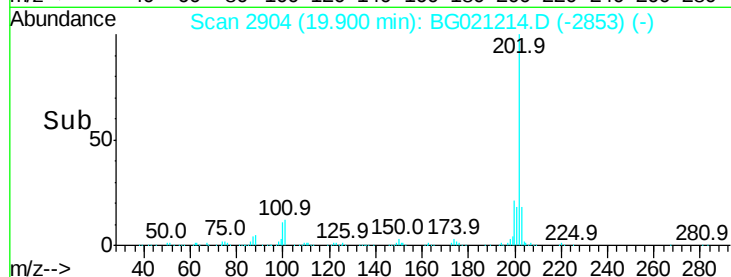
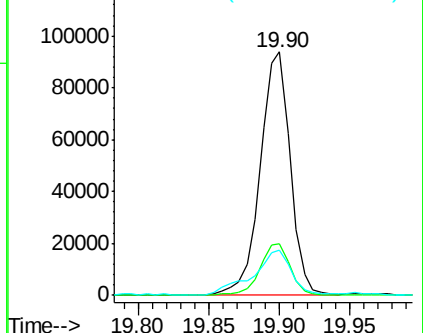
203 18.7 13.8 20.8



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: 66.94 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

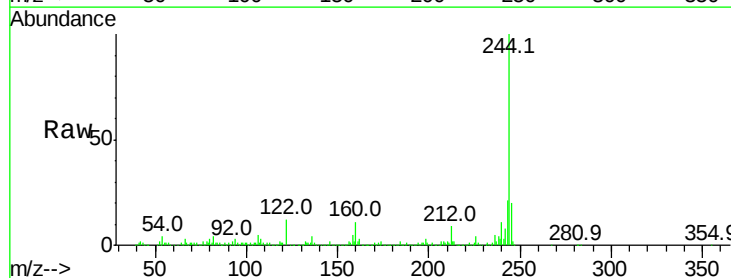
Tgt Ion:244 Resp: 248084

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.6

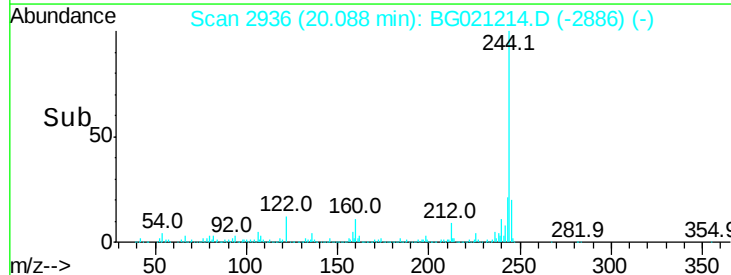
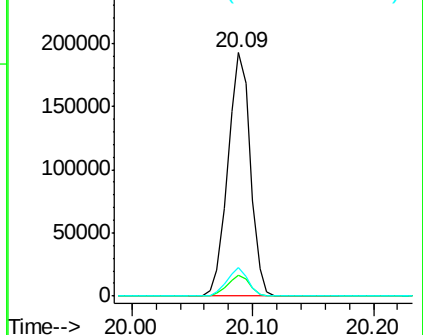
122 11.7 8.3 12.5

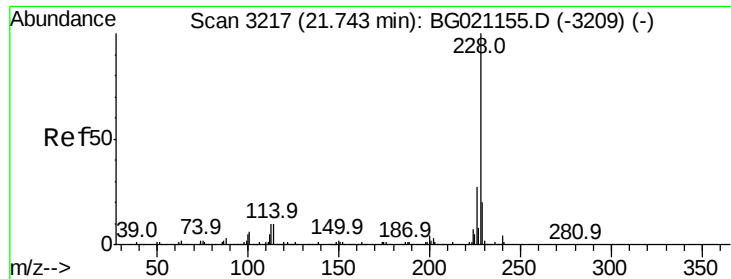


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.57 ng

RT: 21.75 min Scan# 3218

Delta R.T. 0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

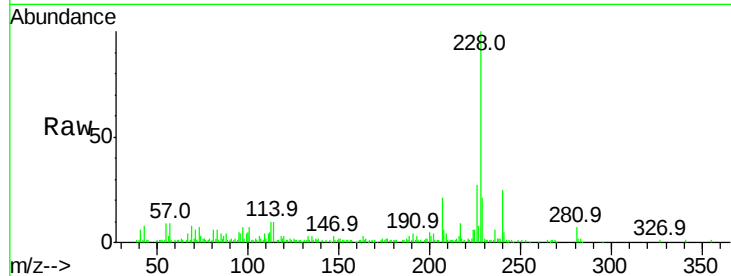
Instrument :

BNA_G

ClientSampled :

Tot Ion:228 Resp: 66839

Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.7	34.1
229	21.2	15.5	23.3

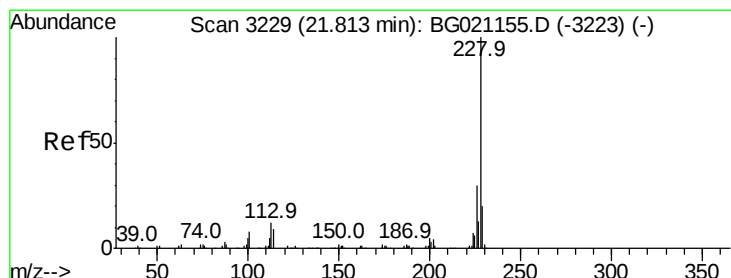
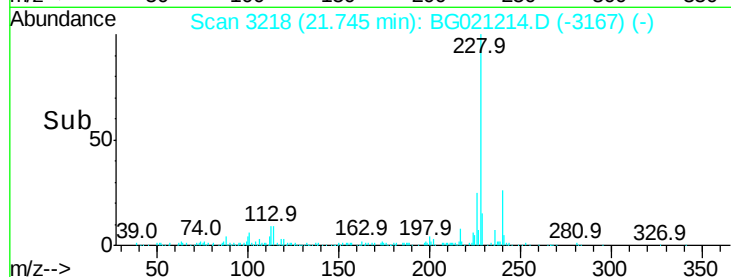
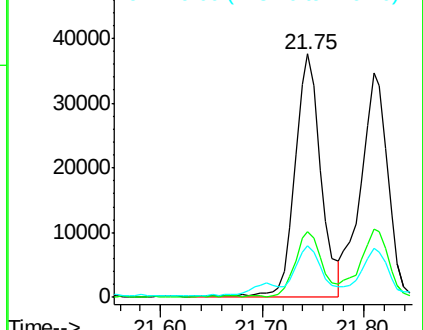


Abundance

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: 12.68 ng

RT: 21.81 min Scan# 3229

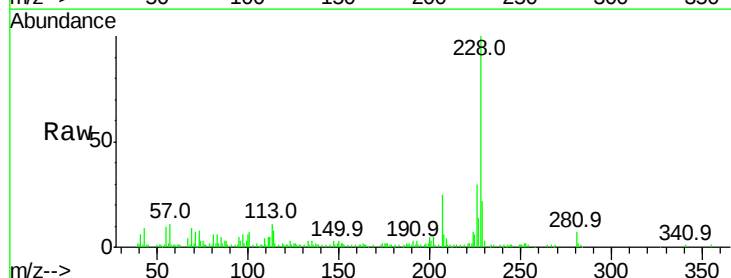
Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Tgt Ion:228 Resp: 63871

Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.7	35.5
229	21.6	16.7	25.1

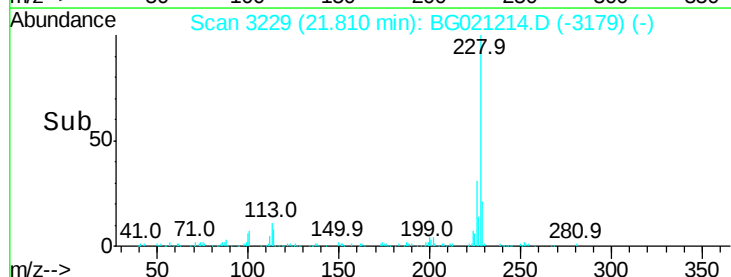
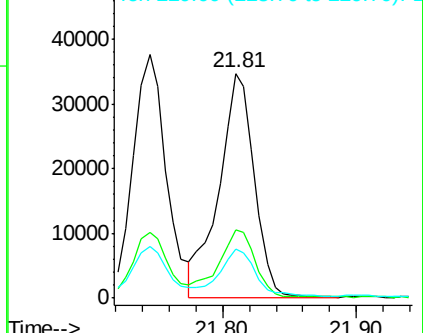


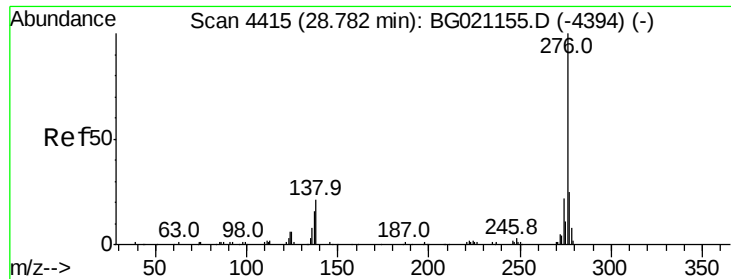
Abundance

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

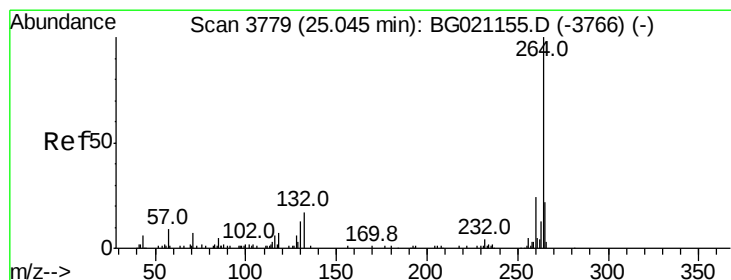
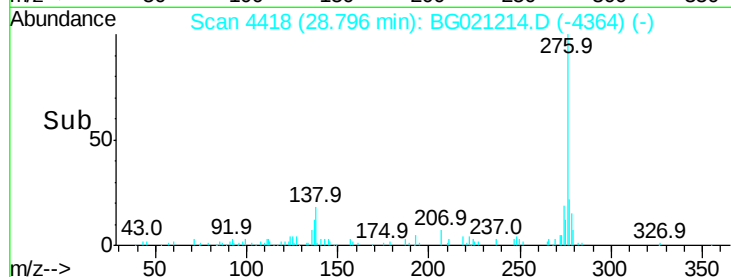
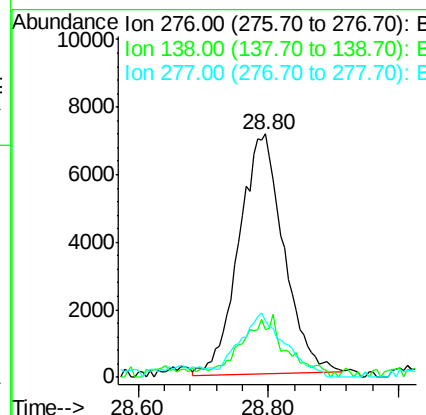
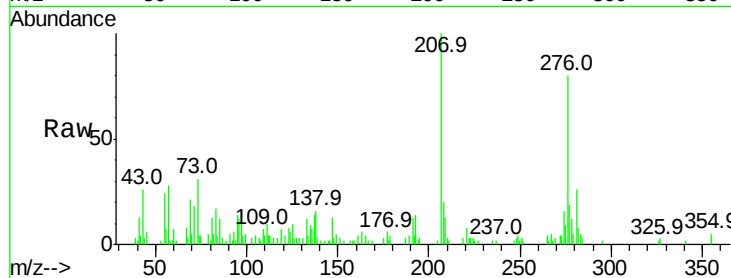




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.89 ng
 RT: 28.80 min Scan# 4418
 Delta R.T. 0.01 min
 Lab File: BG021214.D
 Acq: 2 Mar 2016 15:44

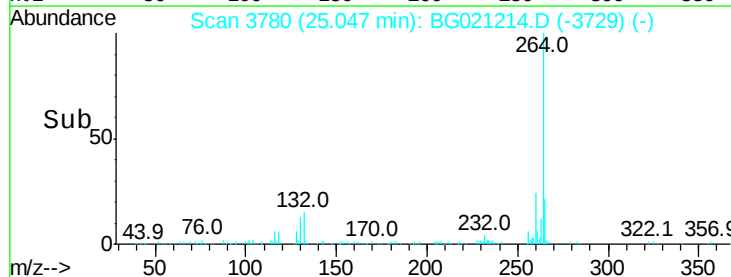
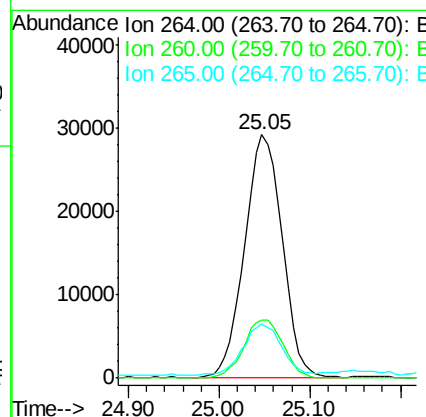
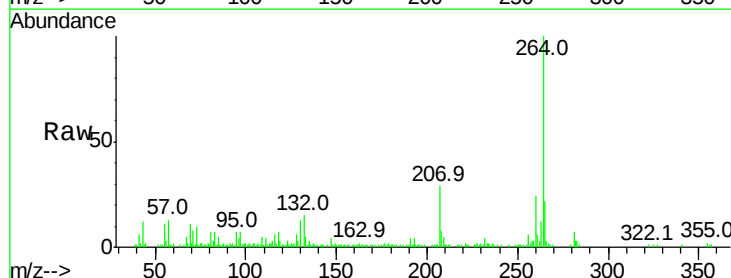
Instrument :
 BNA_G
 ClientSampleID :

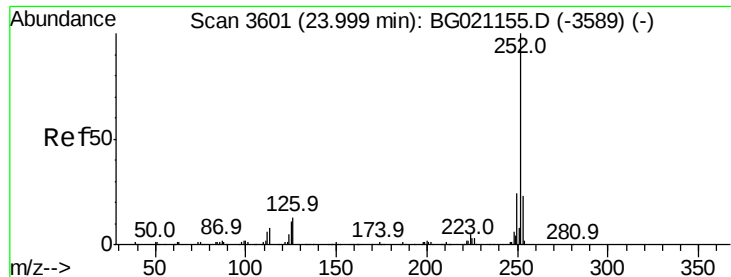
Tot Ion:276 Resp: 34047
 Ion Ratio Lower Upper
 276 100
 138 18.7 16.0 24.0
 277 26.7 16.0 24.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.05 min Scan# 3780
 Delta R.T. 0.00 min
 Lab File: BG021214.D
 Acq: 2 Mar 2016 15:44

Tgt Ion:264 Resp: 85086
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.5 27.7
 265 22.2 18.6 28.0





#87

Benzo(b)fluoranthene

Concen: 14.07 ng

RT: 24.01 min Scan# 3603

Delta R.T. 0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

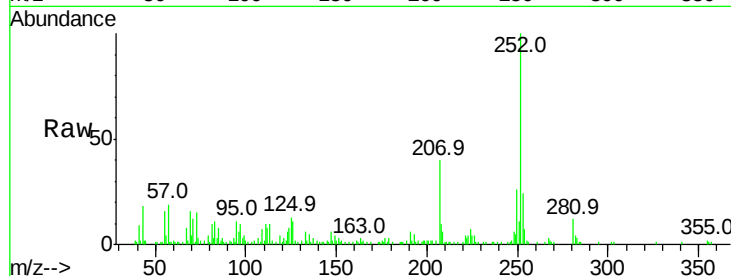
Tot Ion:252 Resp: 75320

Ion Ratio Lower Upper

252 100

253 24.2 16.8 25.2

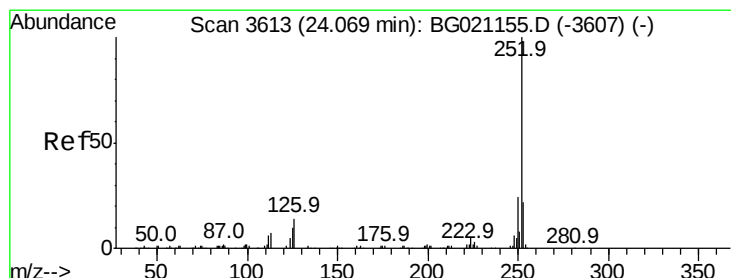
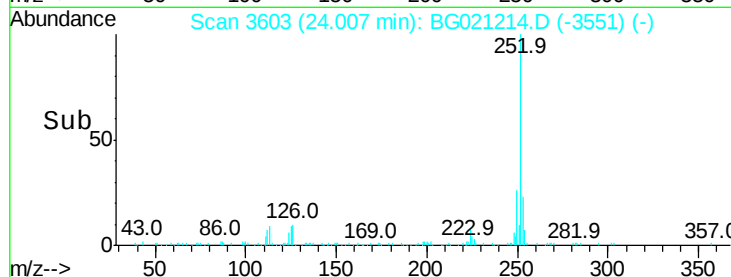
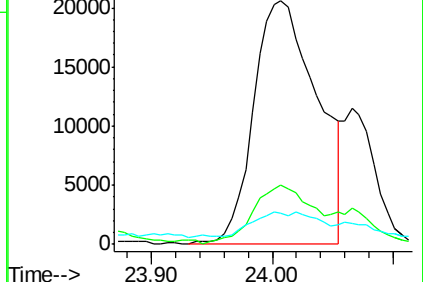
125 12.6 8.2 12.2#



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



#88

Benzo(k)fluoranthene

Concen: 14.05 ng

RT: 24.01 min Scan# 3603

Delta R.T. -0.06 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

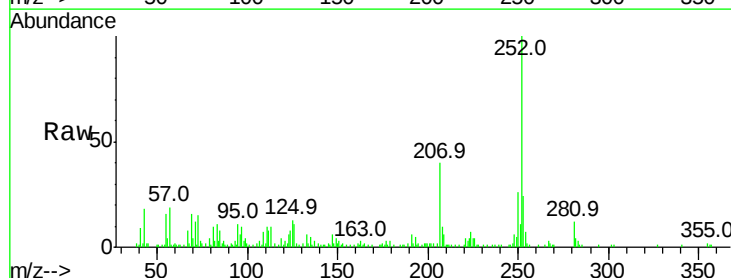
Tgt Ion:252 Resp: 75320

Ion Ratio Lower Upper

252 100

253 24.2 16.4 24.6

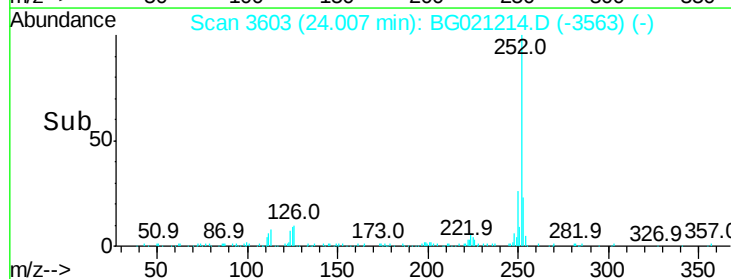
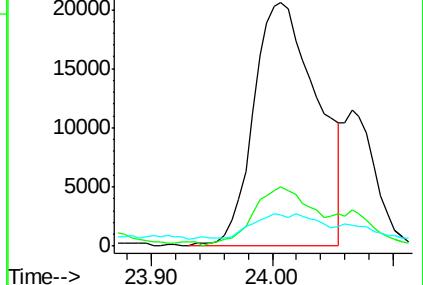
125 12.6 8.2 12.2#

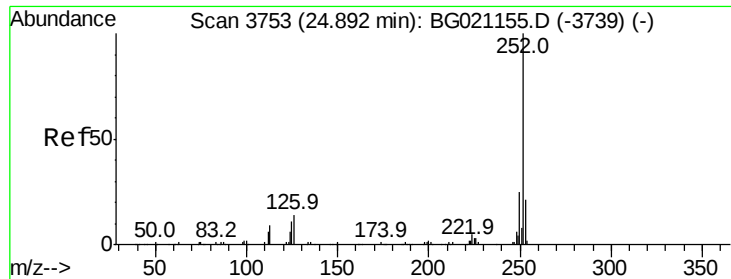


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 11.28 ng

RT: 24.89 min Scan# 3753

Delta R.T. -0.00 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

Instrument :

BNA_G

ClientSampleId :

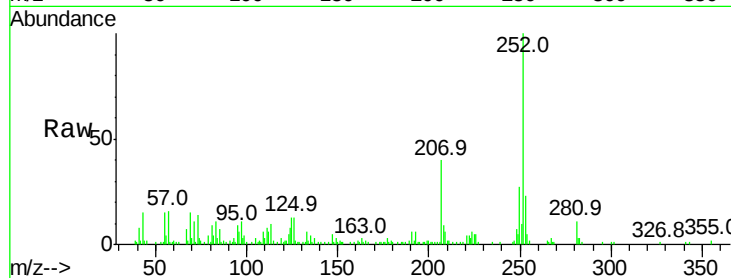
Tot Ion:252 Resp: 58348

Ion Ratio Lower Upper

252 100

253 22.9 15.8 23.8

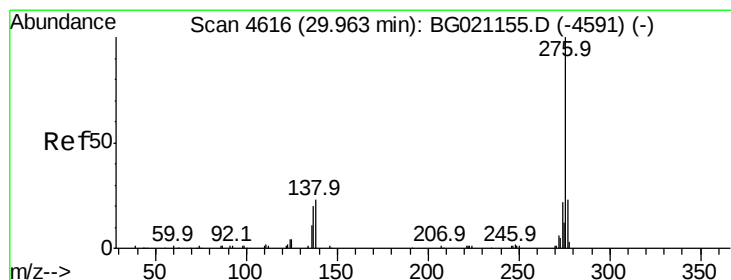
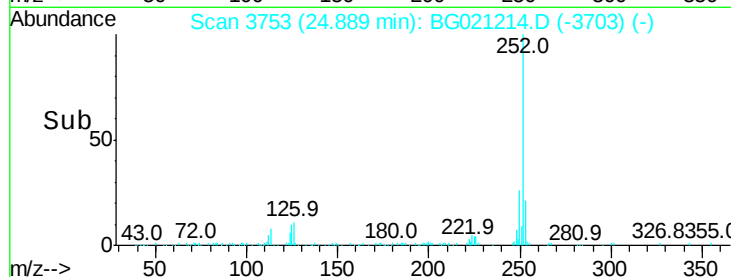
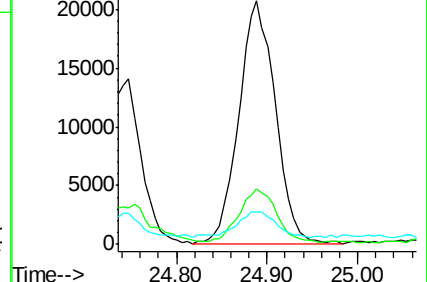
125 13.1 8.4 12.6#



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(g,h,i)perylene

Concen: 7.05 ng

RT: 29.97 min Scan# 4618

Delta R.T. 0.01 min

Lab File: BG021214.D

Acq: 2 Mar 2016 15:44

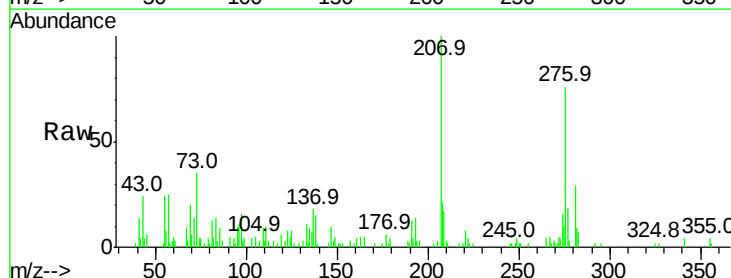
Tgt Ion:276 Resp: 34841

Ion Ratio Lower Upper

276 100

277 24.7 16.6 25.0

138 19.5 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

