

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060216\
 Data File : BG022150.D
 Acq On : 2 Jun 2016 12:48
 Operator : UM/SJ
 Sample : H3302-07
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CB203

Quant Time: Jun 03 01:09:20 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG052116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jun 03 01:08:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.13	152	44432	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	222175	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.77	164	127540	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.51	188	249414	20.00	ng/ul	0.00
75) Chrysene-d12	21.79	240	257610	20.00	ng/ul	0.00
83) Perylene-d12	25.11	264	254289	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.51	96	935	1.10	ng/uL	0.00
5) Phenol-d5	7.29	99	51453	12.82	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.45	67	28063	13.33	ng/ul	0.00
9) 2-Chlorophenol-d4	7.67	132	44827	13.36	ng/ul	0.00
13) 4-Methylphenol-d8	8.84	113	40413	11.87	ng/ul	0.00
19) Nitrobenzene-d5	9.31	128	23463	14.32	ng/ul	0.00
22) 2-Nitrophenol-d4	10.03	143	23647	13.32	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.58	165	41074	13.12	ng/ul	0.00
29) 4-Chloroaniline-d4	11.09	131	65004	19.06	ng/ul	0.00
43) Dimethylphthalate-d6	14.16	166	140712	14.69	ng/ul	0.00
46) Acenaphthylene-d8	14.46	160	190583	14.25	ng/ul	0.00
51) 4-Nitrophenol-d4	14.98	143	9649	5.85	ng/ul	0.00
57) Fluorene-d10	15.75	176	126637	14.12	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.88	200	11070	8.49	ng/ul	0.00
70) Anthracene-d10	17.60	188	176711	14.76	ng/ul	0.00
76) Pyrene-d10	19.88	212	189280	13.03	ng/ul	0.00
87) Benzo(a)pyrene-d12	24.88	264	160633	13.61	ng/ul	0.01

Target Compounds

						Qvalue
4) Benzaldehyde	7.27	77	3741	1.69	ng/ul#	1
14) Acetophenone	8.94	105	92535	19.43	ng/ul#	34
17) Hexachloroethane	9.24	117	38018	28.83	ng/ul#	10
20) Nitrobenzene	9.33	77	4295	1.30	ng/ul#	34
27) 2,4-Dichlorophenol	10.61	162	3084	1.00	ng/ul	94
28) Naphthalene	11.01	128	320074	28.41	ng/ul	99
34) 2-Methylnaphthalene	12.60	142	473570	58.81	ng/ul	97
40) 1,1'-Biphenyl	13.60	154	179529	17.10	ng/ul	98
42) 2-Nitroaniline	13.81	65	4520	2.49	ng/ul#	7
44) Dimethylphthalate	14.20	163	44064	4.58	ng/ul	96
49) Acenaphthene	14.82	153	334244	35.51	ng/ul	98
53) Dibenzofuran	15.16	168	241988	20.79	ng/ul	97
58) Fluorene	15.81	166	77602	7.90	ng/ul#	99
64) N-Nitrosodiphenylamine	15.99	169	13919	1.77	ng/ul#	67
68) Pentachlorophenol	17.16	266	2367	1.55	ng/ul#	48
69) Phenanthrene	17.55	178	167902	12.10	ng/ul	99
71) Anthracene	17.55	178	167902	11.95	ng/ul	99
72) Carbazole	17.92	167	18369	1.51	ng/ul#	83
74) Fluoranthene	19.55	202	219696	15.50	ng/ul	97
77) Pyrene	19.91	202	197639	10.90	ng/ul	98
80) Benzo(a)anthracene	21.77	228	129664	8.58	ng/ul	92
81) Bis(2-ethylhexyl)phthalate	21.65	149	629728	51.51	ng/ul	99
82) Chrysene	21.83	228	128127	8.84	ng/ul#	94

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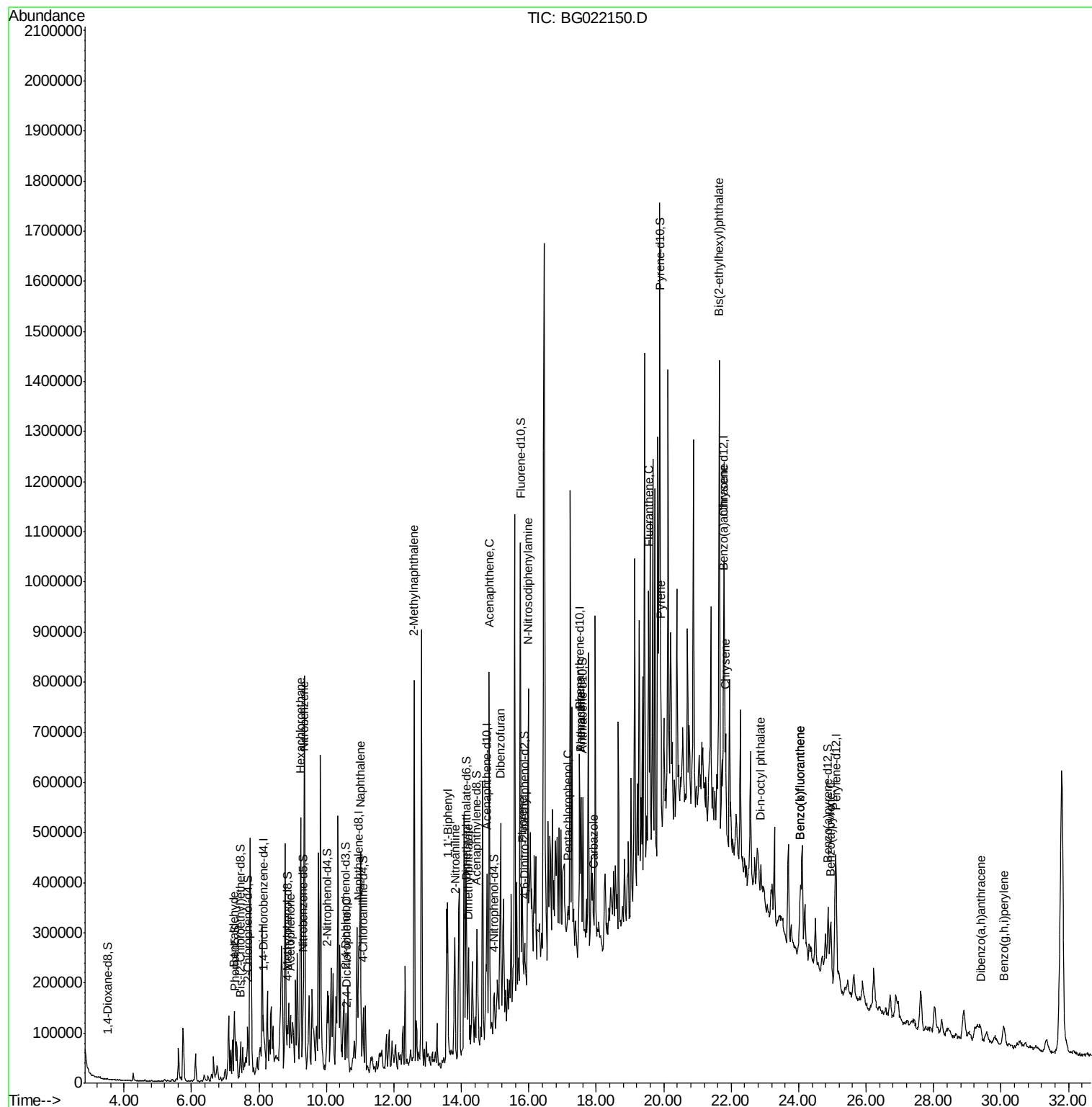
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Di-n-octyl phthalate	22.89	149	76524	3.69	ng/ul	100
85) Benzo(b)fluoranthene	24.06	252	170863	11.48	ng/ul#	93
86) Benzo(k)fluoranthene	24.06	252	170863	11.80	ng/ul#	88
88) Benzo(a)pyrene	24.95	252	122725	8.55	ng/ul#	96
90) Dibenzo(a,h)anthracene	29.39	278	21024	1.53	ng/ul	94
91) Benzo(g,h,i)perylene	30.08	276	75278	5.71	ng/ul	99

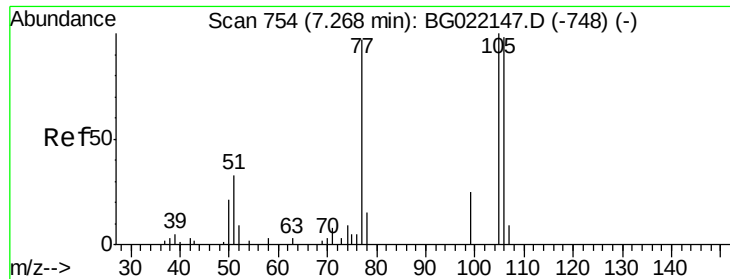
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.69 ng/ul

RT: 7.27 min Scan# 754

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

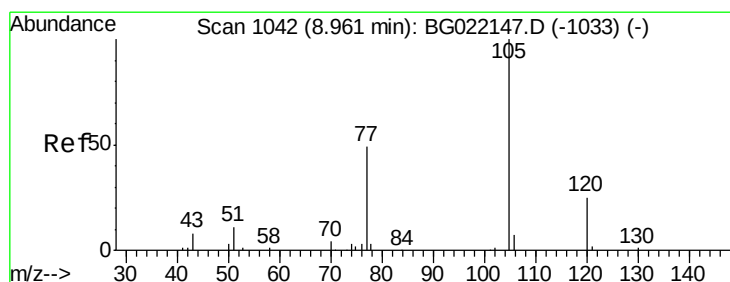
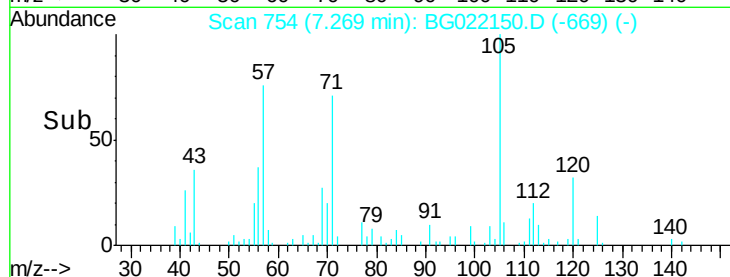
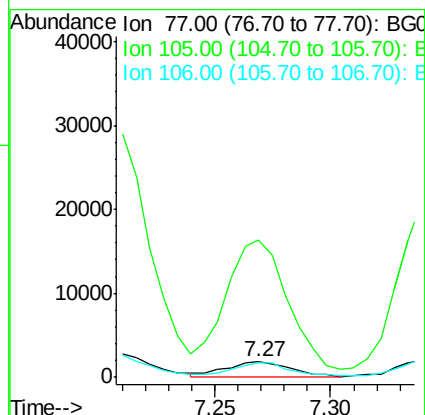
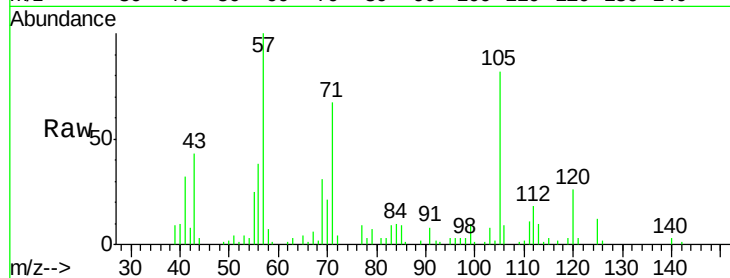
Tgt Ion: 77 Resp: 3741

Ion Ratio Lower Upper

77 100

105 873.3 83.8 125.8#

106 91.8 77.9 116.9



#14

Acetophenone

Concen: 19.43 ng/ul

RT: 8.94 min Scan# 1038

Delta R.T. -0.02 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

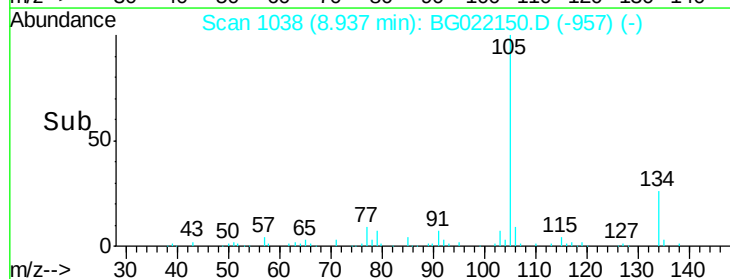
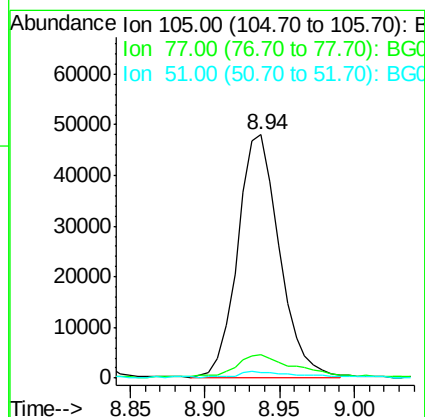
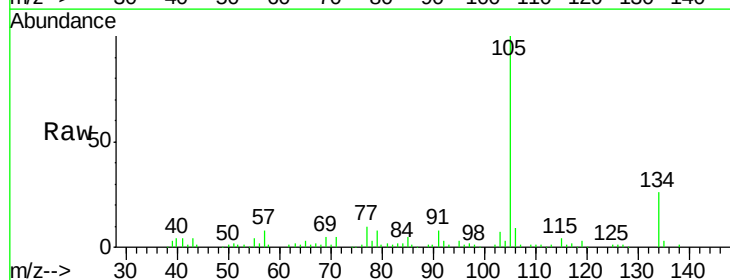
Tgt Ion: 105 Resp: 92535

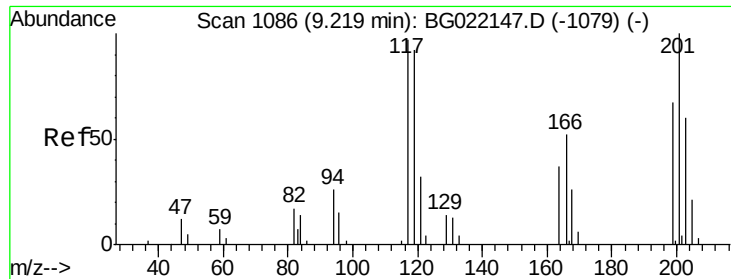
Ion Ratio Lower Upper

105 100

77 9.5 56.1 84.1#

51 2.4 14.6 22.0#





#17

Hexachloroethane

Concen: 28.83 ng/ul

RT: 9.24 min Scan# 1089

Delta R.T. 0.02 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

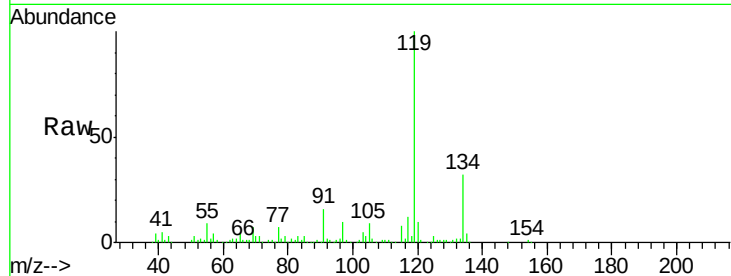
Tgt Ion: 117 Resp: 38018

Ion Ratio Lower Upper

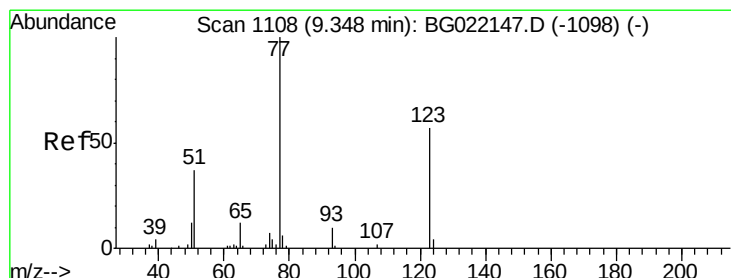
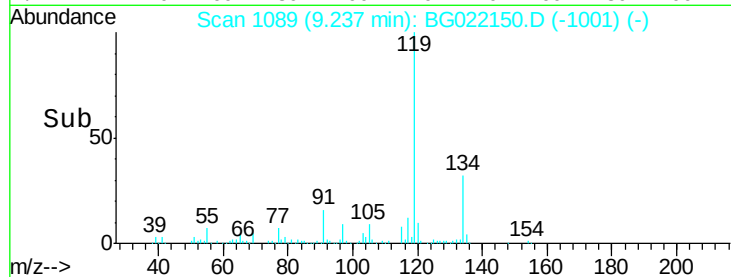
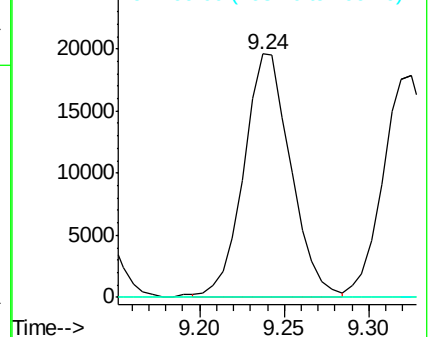
117 100

201 0.0 76.8 115.2#

199 0.0 43.5 65.3#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E



#20

Nitrobenzene

Concen: 1.30 ng/ul

RT: 9.33 min Scan# 1105

Delta R.T. -0.02 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

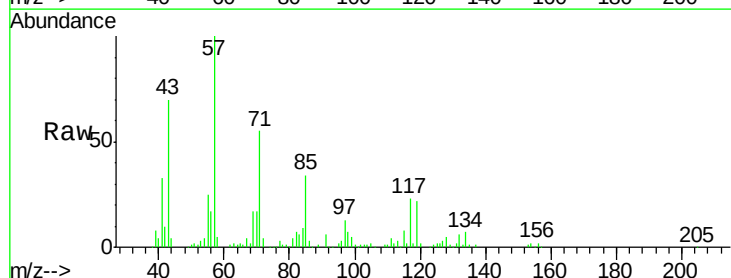
Tgt Ion: 77 Resp: 4295

Ion Ratio Lower Upper

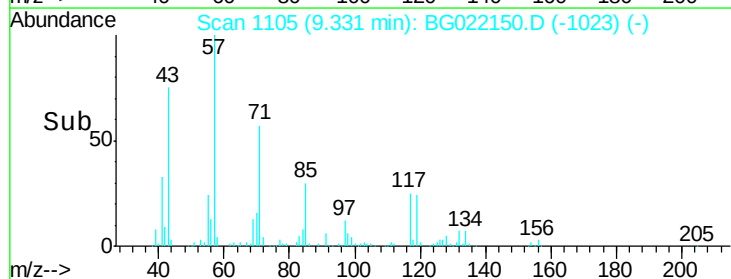
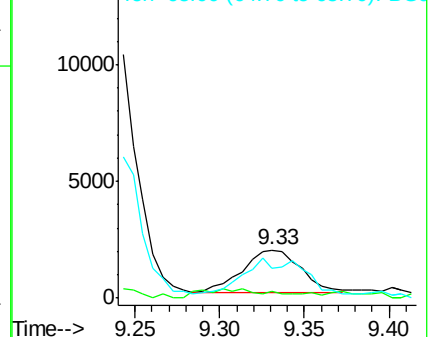
77 100

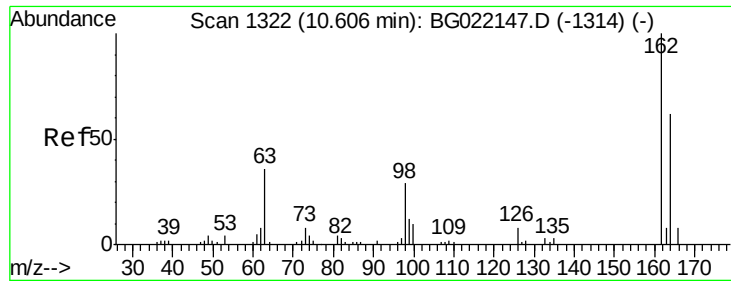
123 14.9 39.5 59.3#

65 62.9 9.0 13.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): E
Ion 65.00 (64.70 to 65.70): BGC





#27

2,4-Dichlorophenol

Concen: 1.00 ng/ul

RT: 10.61 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampled :

CB203

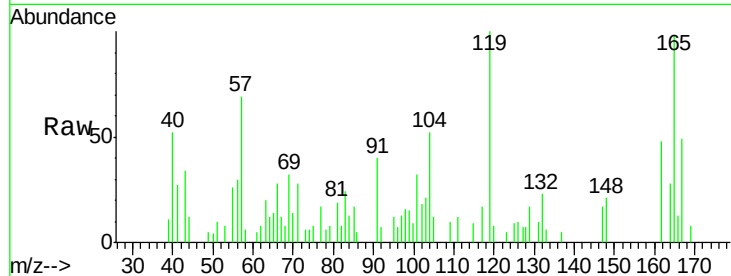
Tgt Ion:162 Resp: 3084

Ion Ratio Lower Upper

162 100

164 59.2 51.6 77.4

98 32.6 28.3 42.5

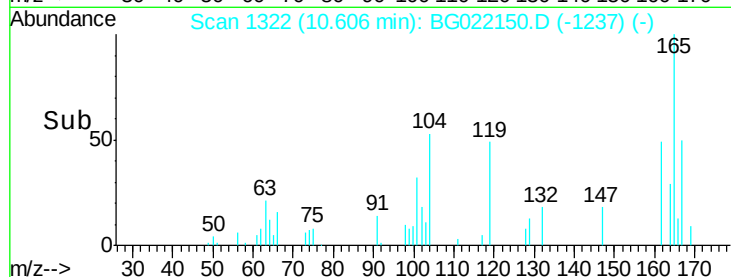


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): B

Time-->



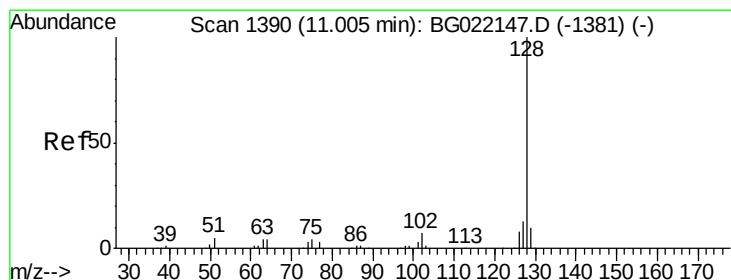
Abundance

Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): B

Time-->



#28

Naphthalene

Concen: 28.41 ng/ul

RT: 11.01 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

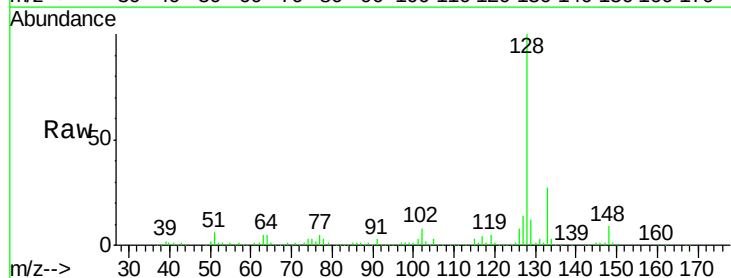
Tgt Ion:128 Resp: 320074

Ion Ratio Lower Upper

128 100

129 12.5 9.4 14.2

127 13.9 11.2 16.8

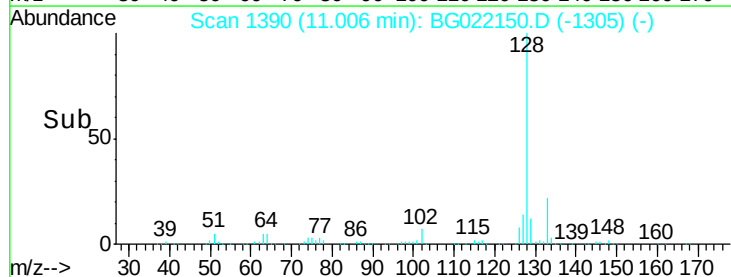


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->



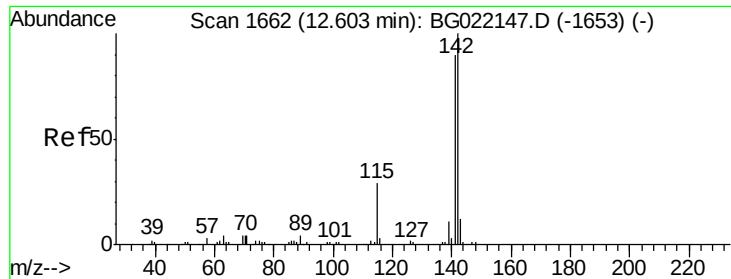
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

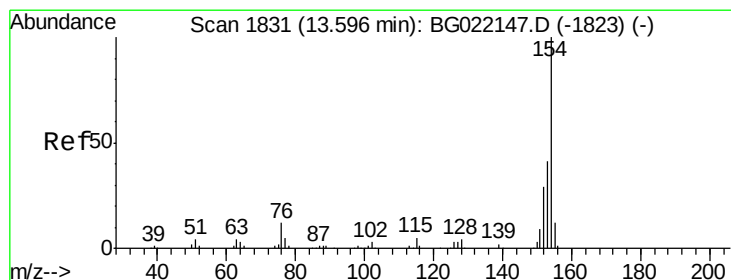
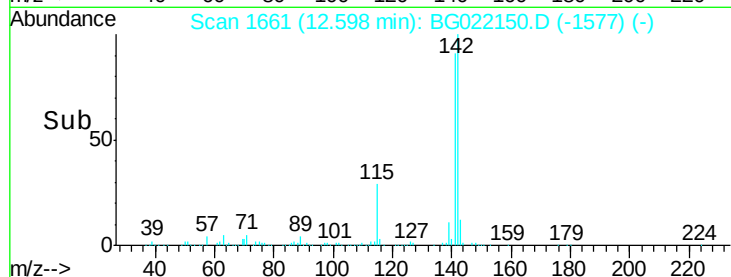
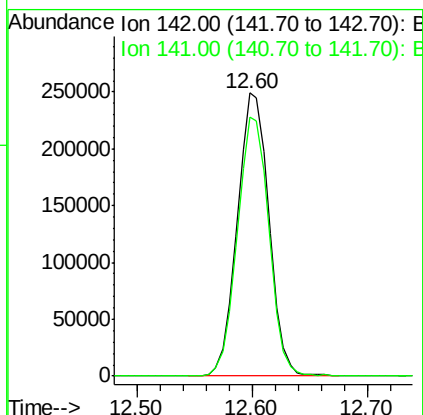
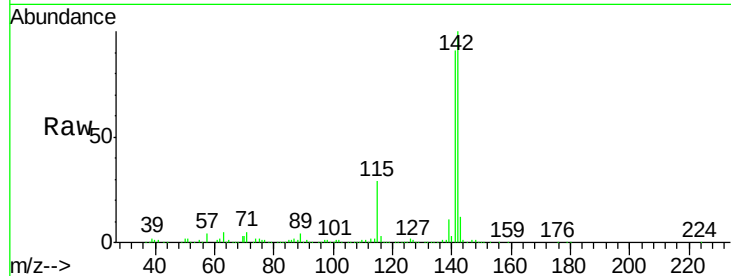
Time-->



#34
 2-Methylnaphthalene
 Concen: 58.81 ng/ul
 RT: 12.60 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: BG022150.D
 Acq: 2 Jun 2016 12:48

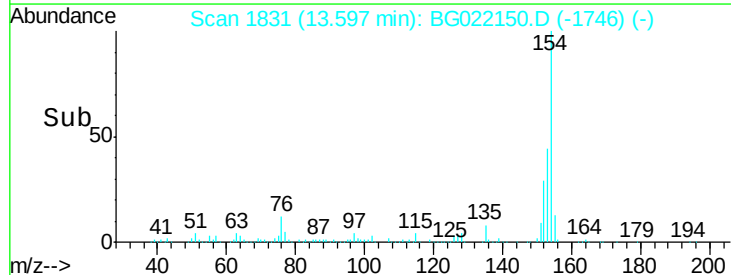
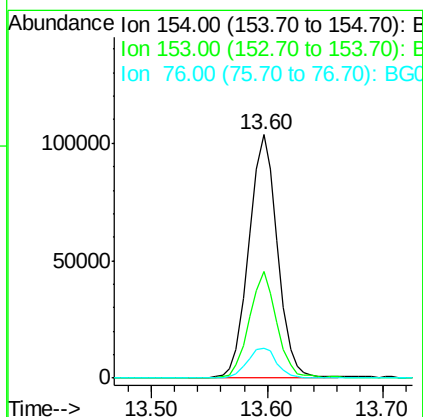
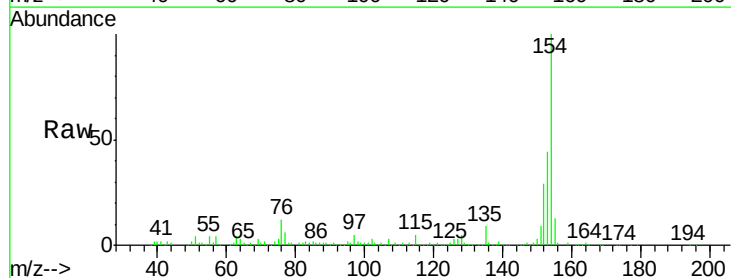
Instrument :
 BNA_G
 ClientSampled :
 CB203

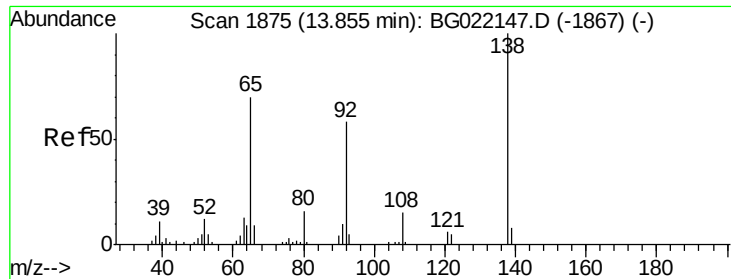
Tgt Ion:142 Resp: 473570
 Ion Ratio Lower Upper
 142 100
 141 91.3 75.2 112.8



#40
 1,1'-Biphenyl
 Concen: 17.10 ng/ul
 RT: 13.60 min Scan# 1831
 Delta R.T. 0.00 min
 Lab File: BG022150.D
 Acq: 2 Jun 2016 12:48

Tgt Ion:154 Resp: 179529
 Ion Ratio Lower Upper
 154 100
 153 43.8 34.6 52.0
 76 12.4 11.9 17.9





#42

2-Nitroaniline

Concen: 2.49 ng/ul

RT: 13.81 min Scan# 1868

Delta R.T. -0.04 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

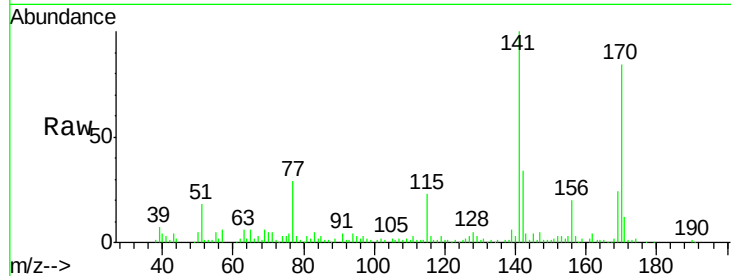
Tgt Ion: 65 Resp: 4520

Ion Ratio Lower Upper

65 100

92 12.5 67.1 100.7#

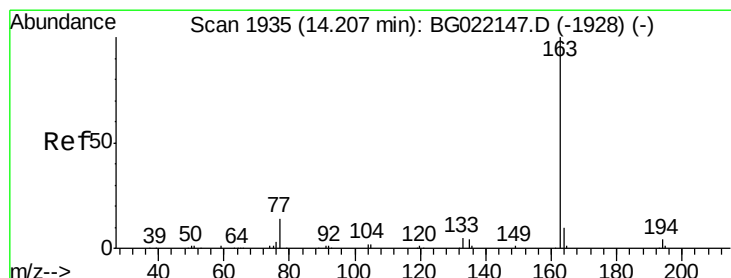
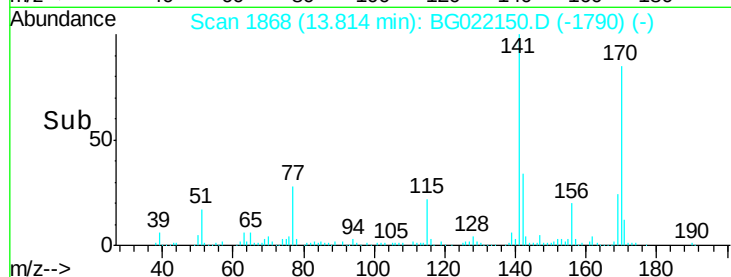
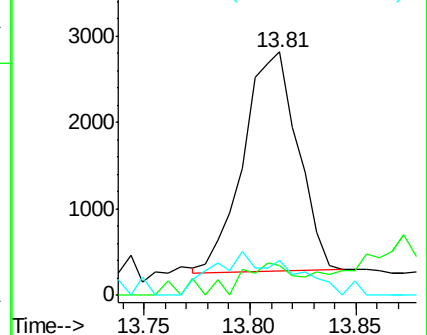
138 14.2 109.6 164.4#



Abundance Ion 65.00 (64.70 to 65.70): BGC

Ion 92.00 (91.70 to 92.70): BGC

Ion 138.00 (137.70 to 138.70): BGC



#44

Dimethylphthalate

Concen: 4.58 ng/ul

RT: 14.20 min Scan# 1934

Delta R.T. -0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

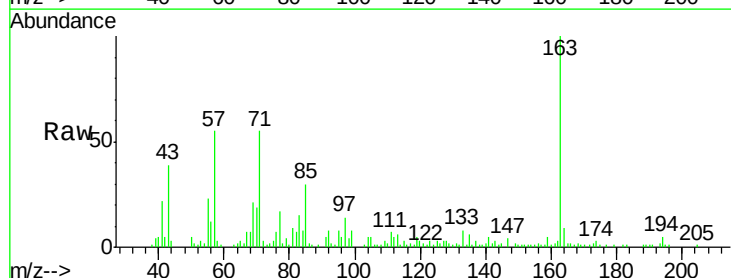
Tgt Ion: 163 Resp: 44064

Ion Ratio Lower Upper

163 100

194 4.8 3.4 5.2

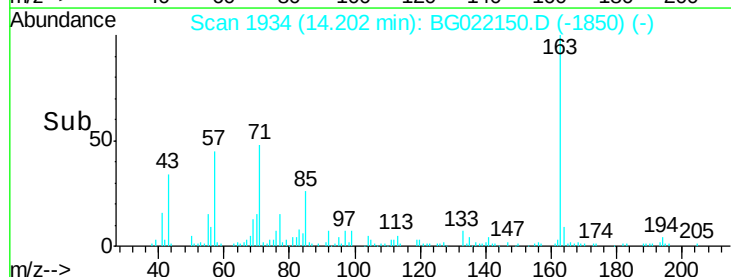
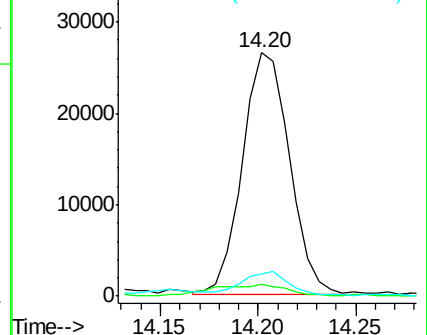
164 9.3 8.8 13.2

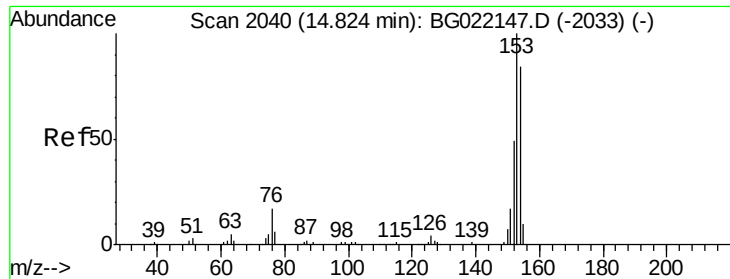


Abundance Ion 163.00 (162.70 to 163.70): BGC

Ion 194.00 (193.70 to 194.70): BGC

Ion 164.00 (163.70 to 164.70): BGC





#49

Acenaphthene

Concen: 35.51 ng/ul

RT: 14.82 min Scan# 2040

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

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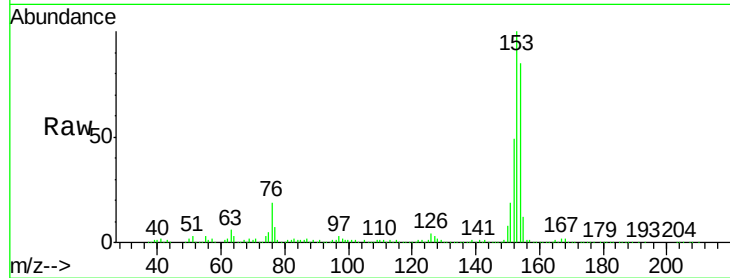
Tgt Ion:153 Resp: 334244

Ion Ratio Lower Upper

153 100

152 49.5 37.3 55.9

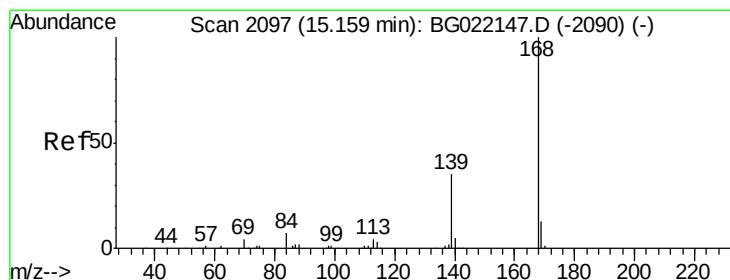
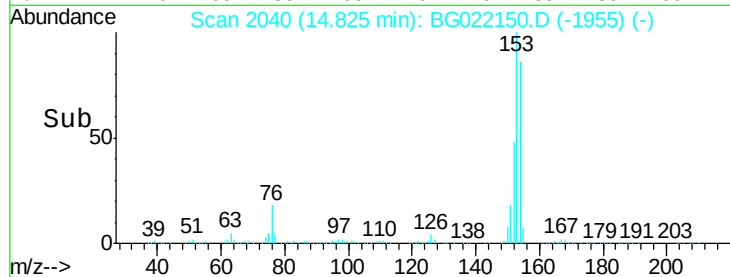
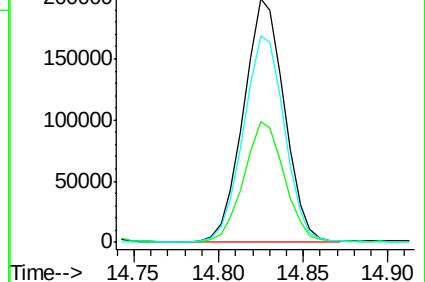
154 85.0 68.2 102.2



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 20.79 ng/ul

RT: 15.16 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BG022150.D

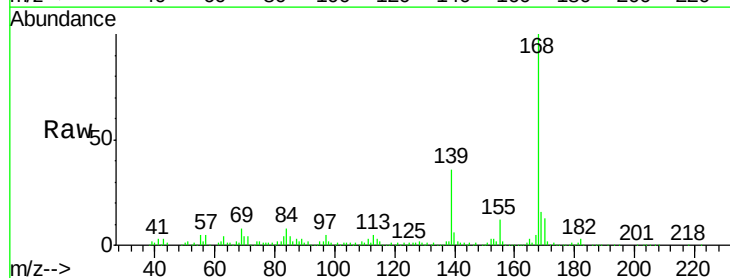
Acq: 2 Jun 2016 12:48

Tgt Ion:168 Resp: 241988

Ion Ratio Lower Upper

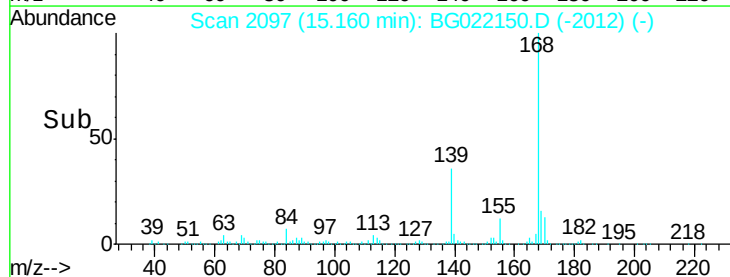
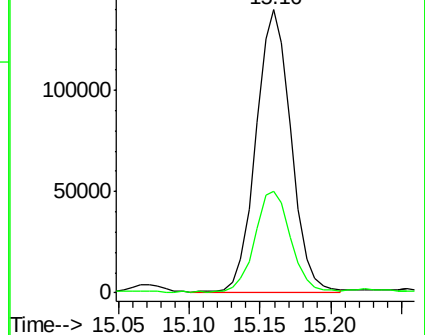
168 100

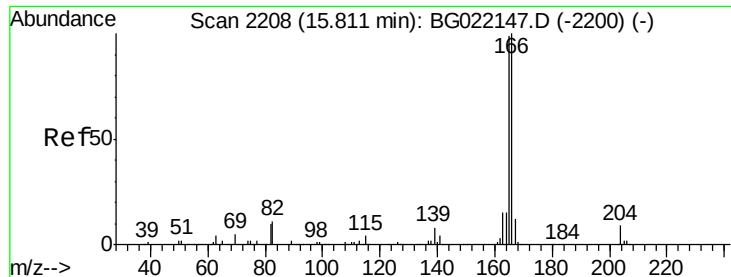
139 36.0 27.4 41.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

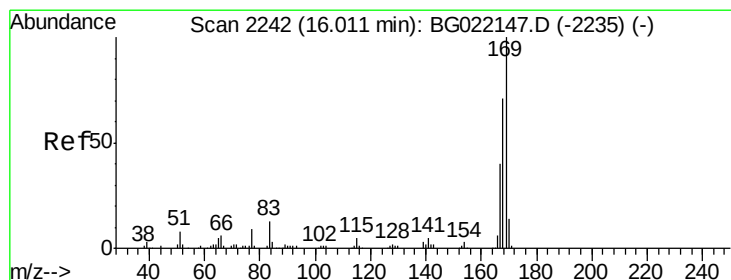
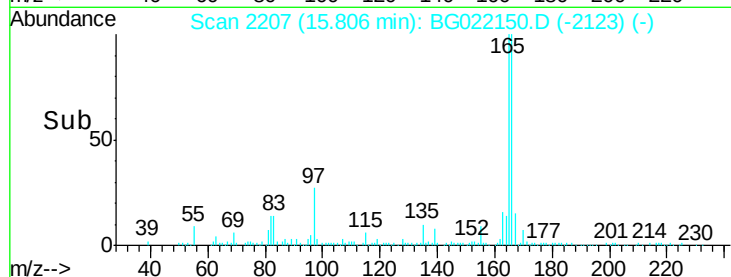
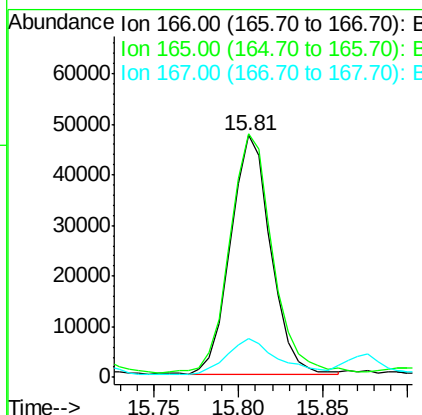
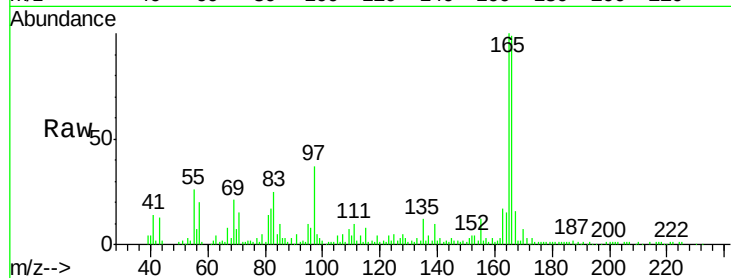




#58
 Fluorene
 Concen: 7.90 ng/ul
 RT: 15.81 min Scan# 2207
 Delta R.T. -0.01 min
 Lab File: BG022150.D
 Acq: 2 Jun 2016 12:48

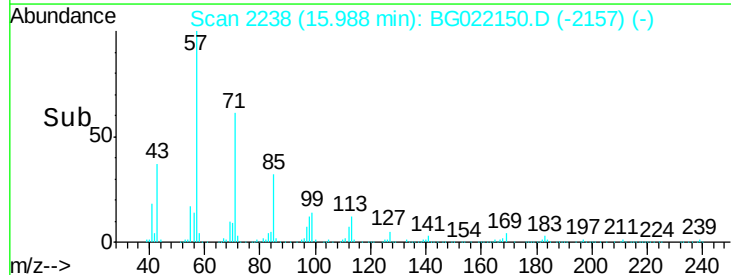
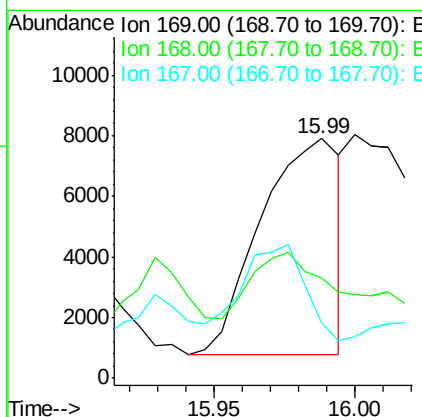
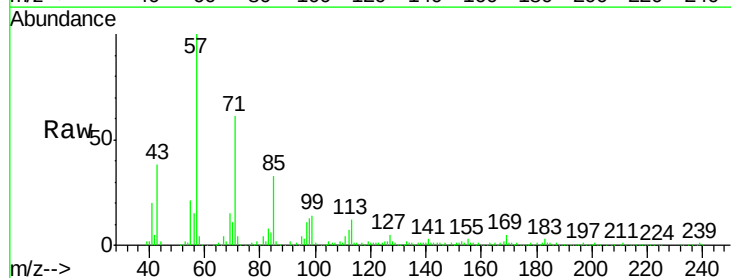
Instrument :
 BNA_G
 ClientSampleId :
 CB203

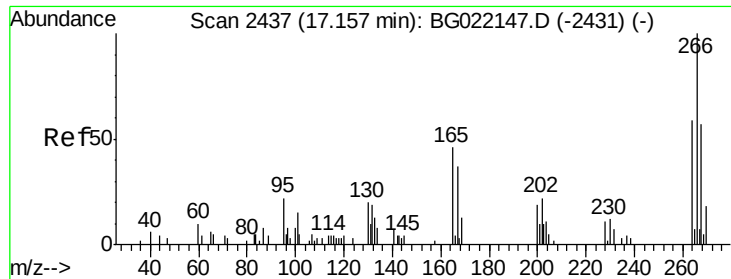
Tgt Ion:166 Resp: 77602
 Ion Ratio Lower Upper
 166 100
 165 100.7 80.3 120.5
 167 15.8 10.3 15.5#



#64
 N-Nitrosodiphenylamine
 Concen: 1.77 ng/ul
 RT: 15.99 min Scan# 2238
 Delta R.T. -0.02 min
 Lab File: BG022150.D
 Acq: 2 Jun 2016 12:48

Tgt Ion:169 Resp: 13919
 Ion Ratio Lower Upper
 169 100
 168 41.9 59.0 88.6#
 167 23.2 30.6 46.0#





#68

Pentachlorophenol

Concen: 1.55 ng/ul

RT: 17.16 min Scan# 2438

Delta R.T. 0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampled :

CB203

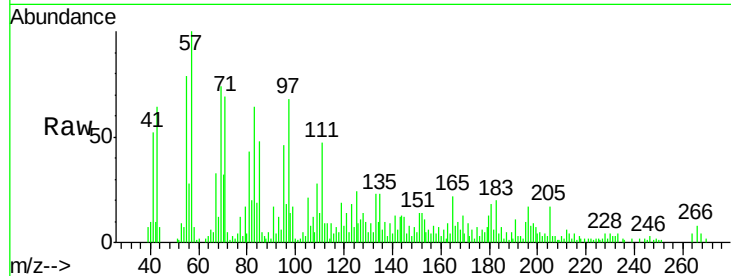
Tgt Ion:266 Resp: 2367

Ion Ratio Lower Upper

266 100

264 55.8 54.7 82.1

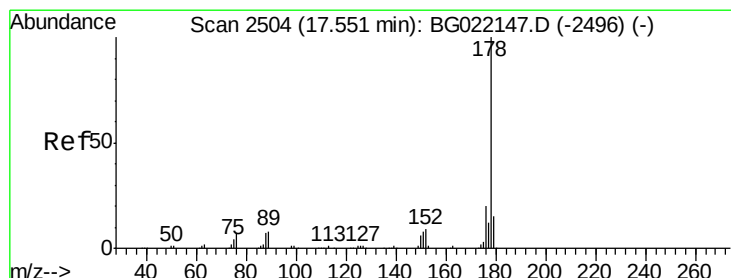
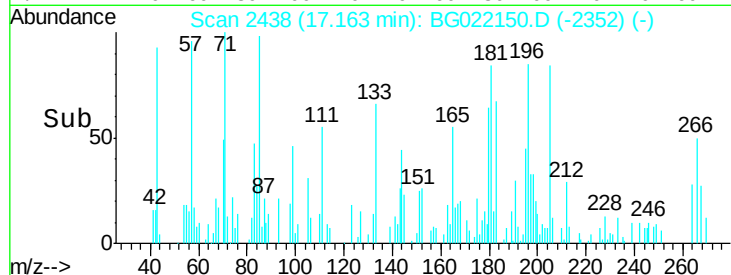
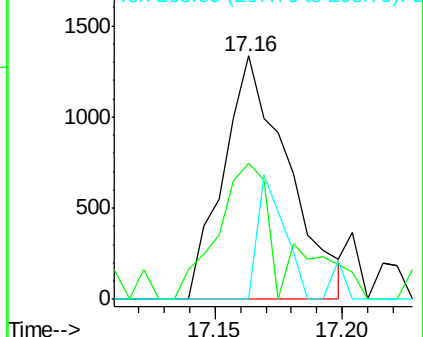
268 0.0 57.8 86.8#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#69

Phenanthrene

Concen: 12.10 ng/ul

RT: 17.55 min Scan# 2504

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

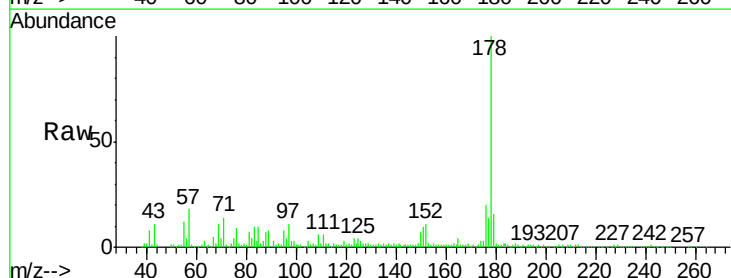
Tgt Ion:178 Resp: 167902

Ion Ratio Lower Upper

178 100

179 16.0 12.9 19.3

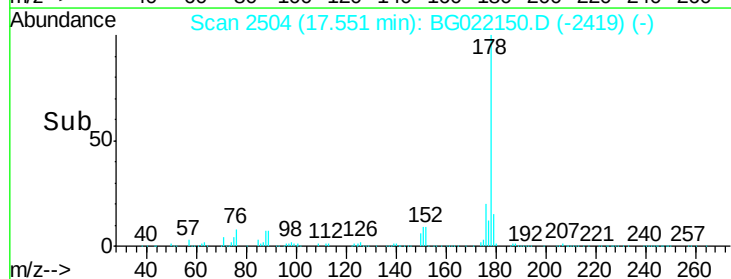
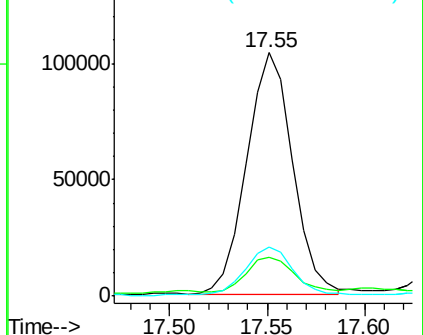
176 20.2 15.8 23.8

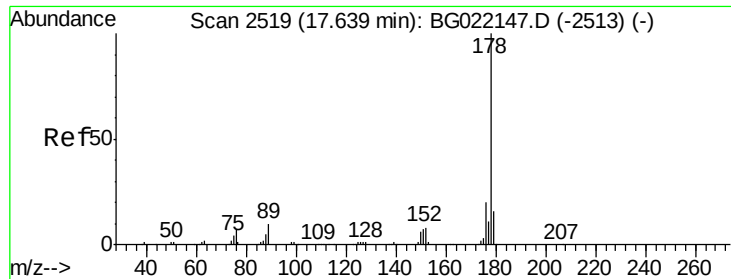


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 11.95 ng/ul

RT: 17.55 min Scan# 2504

Delta R.T. -0.09 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampled :

CB203

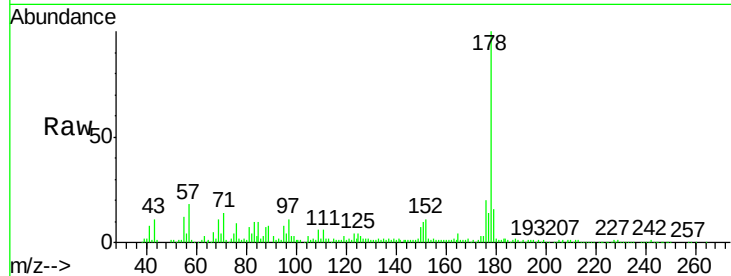
Tgt Ion:178 Resp: 167902

Ion Ratio Lower Upper

178 100

179 16.0 12.3 18.5

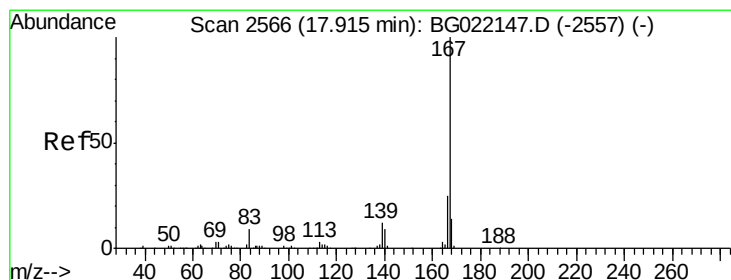
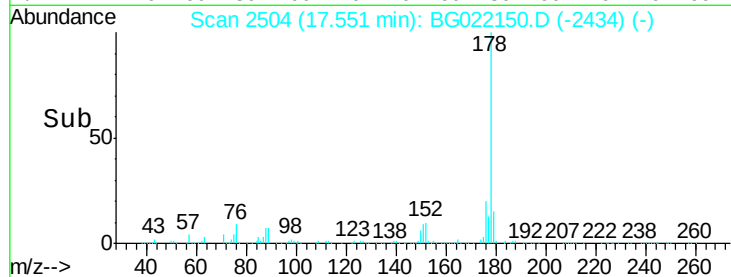
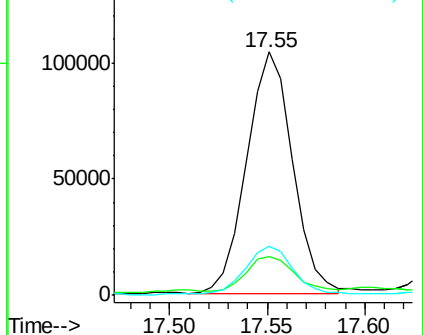
176 20.2 16.3 24.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 1.51 ng/ul

RT: 17.92 min Scan# 2566

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

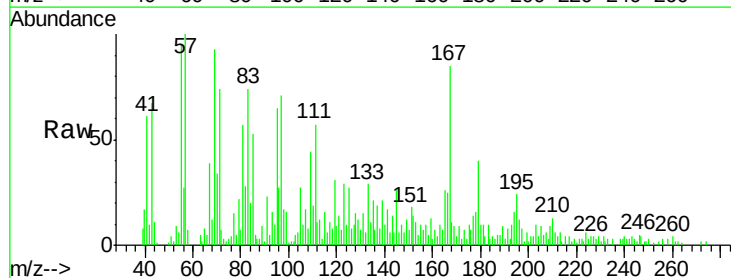
Tgt Ion:167 Resp: 18369

Ion Ratio Lower Upper

167 100

166 28.9 19.2 28.8#

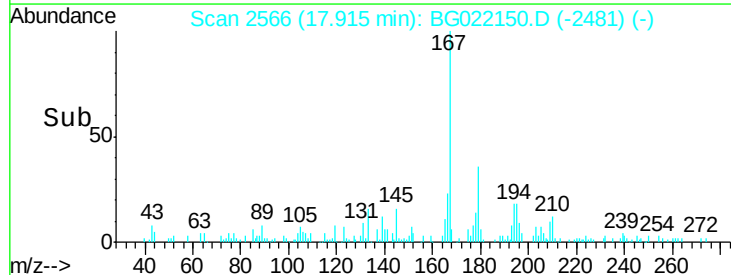
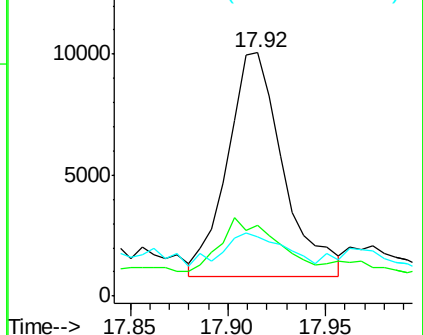
139 24.5 10.2 15.4#

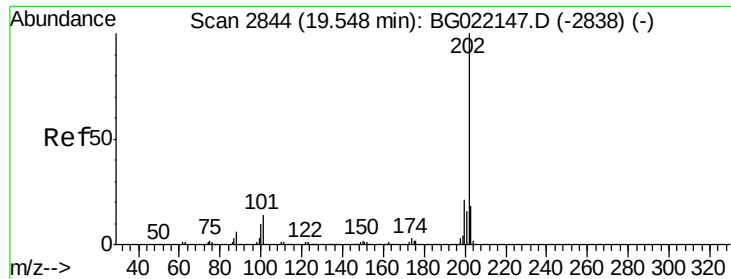


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 15.50 ng/ul

RT: 19.55 min Scan# 2845

Delta R.T. 0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

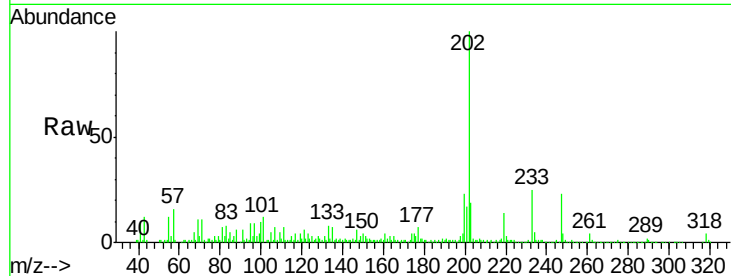
Tgt Ion:202 Resp: 219696

Ion Ratio Lower Upper

202 100

101 11.7 10.6 16.0

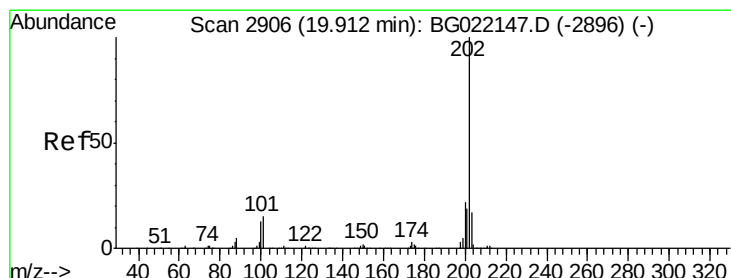
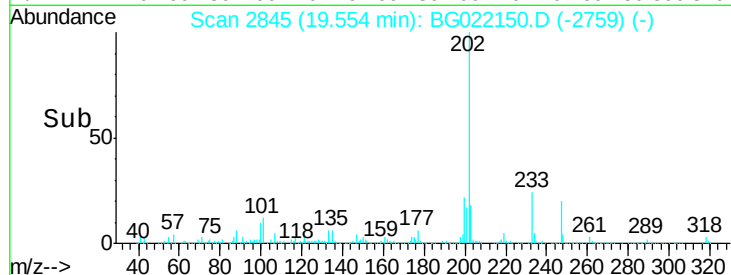
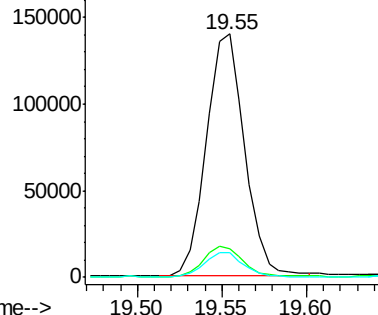
100 10.2 8.7 13.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 10.90 ng/ul

RT: 19.91 min Scan# 2906

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

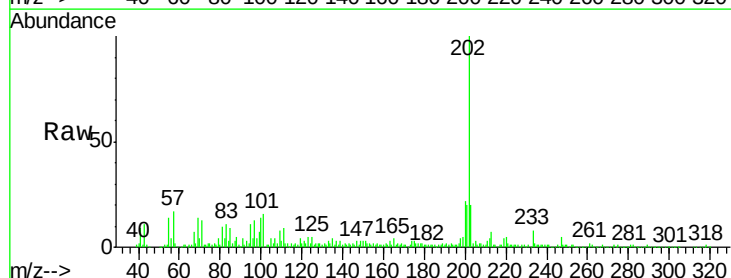
Tgt Ion:202 Resp: 197639

Ion Ratio Lower Upper

202 100

101 16.1 12.5 18.7

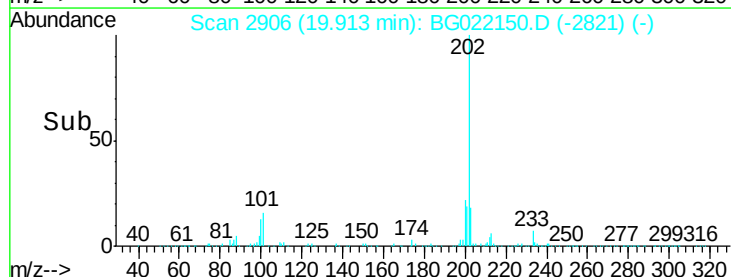
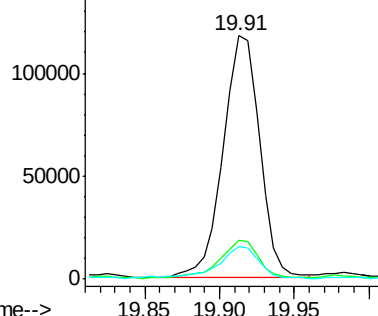
100 13.5 10.2 15.4

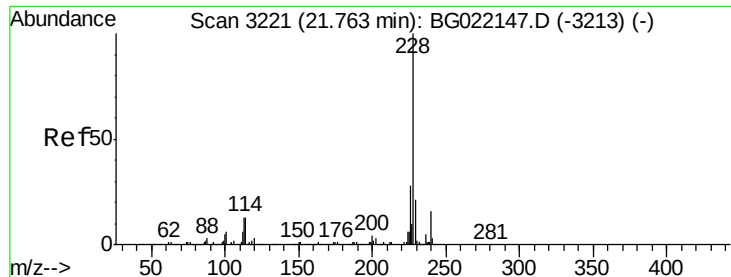


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 8.58 ng/ul

RT: 21.77 min Scan# 3222

Delta R.T. 0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

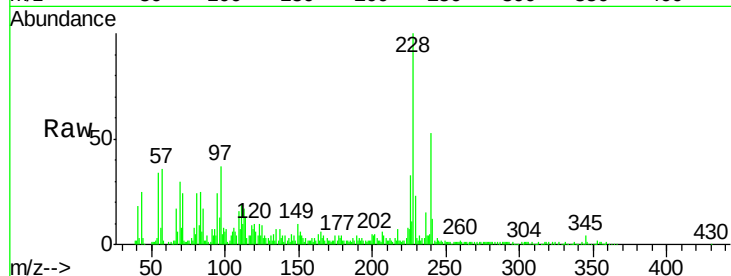
Tgt Ion:228 Resp: 129664

Ion Ratio Lower Upper

228 100

229 23.0 15.4 23.2

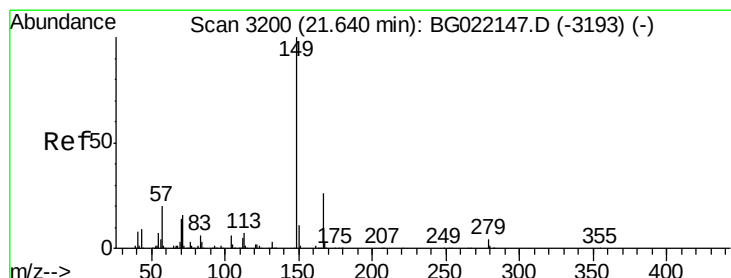
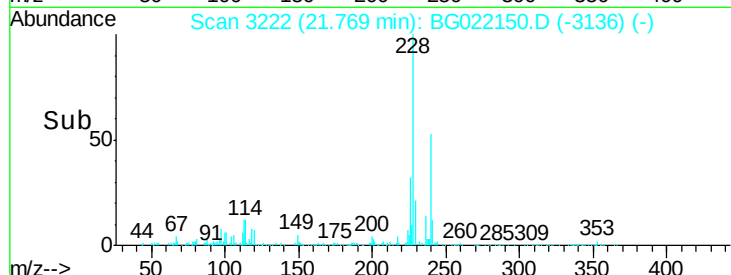
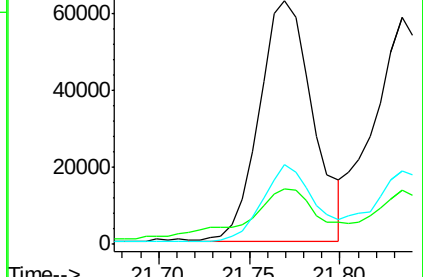
226 33.0 22.8 34.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#81

Bis(2-ethylhexyl)phthalate

Concen: 51.51 ng/ul

RT: 21.65 min Scan# 3201

Delta R.T. 0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

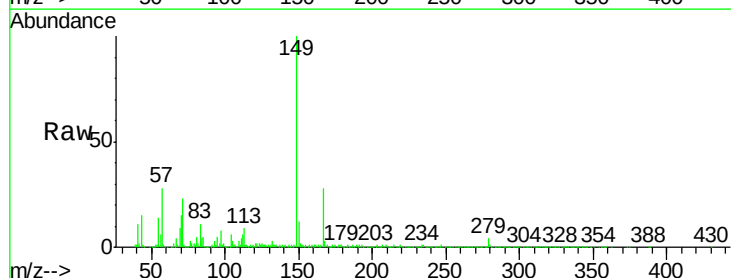
Tgt Ion:149 Resp: 629728

Ion Ratio Lower Upper

149 100

167 27.8 21.9 32.9

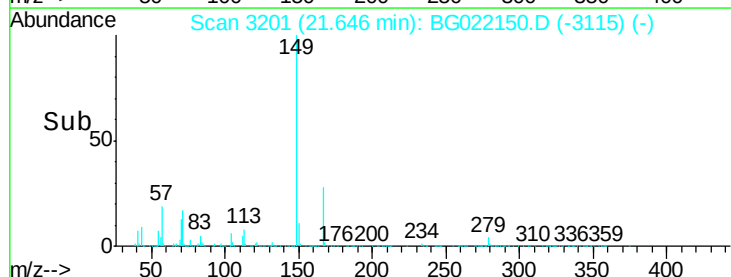
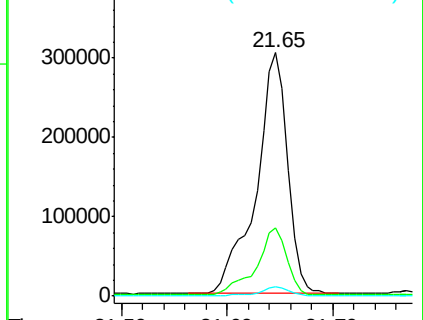
279 4.1 2.9 4.3

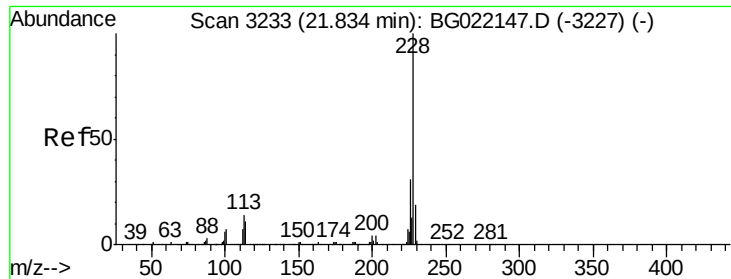


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 8.84 ng/ul

RT: 21.83 min Scan# 3233

Delta R.T. 0.00 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

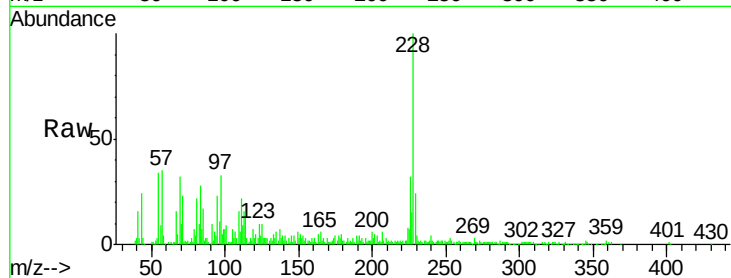
Tgt Ion:228 Resp: 128127

Ion Ratio Lower Upper

228 100

226 32.3 24.2 36.4

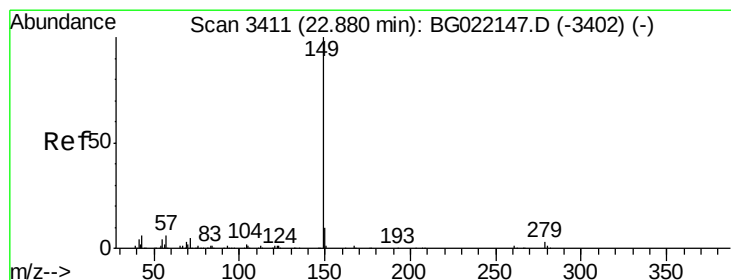
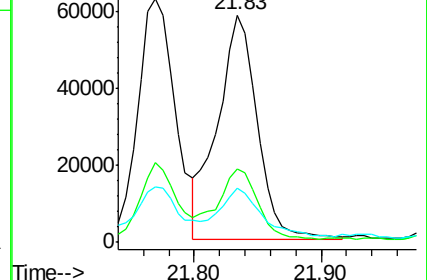
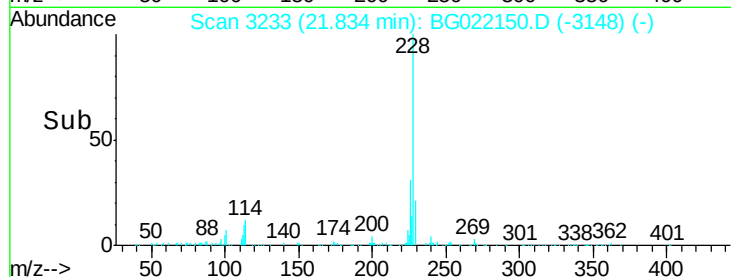
229 23.7 15.0 22.6#



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



#84

Di-n-octyl phthalate

Concen: 3.69 ng/ul

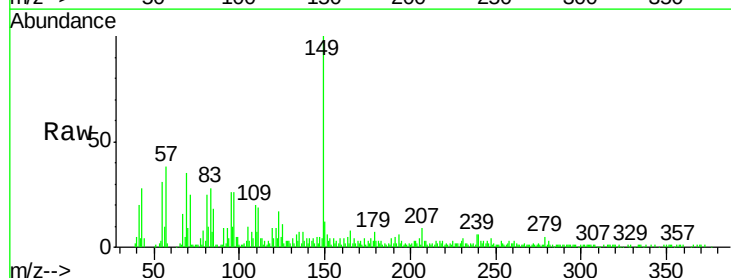
RT: 22.89 min Scan# 3412

Delta R.T. 0.01 min

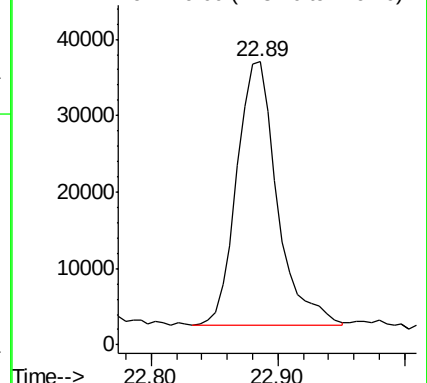
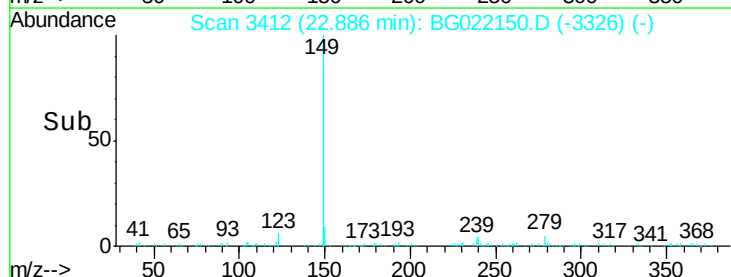
Lab File: BG022150.D

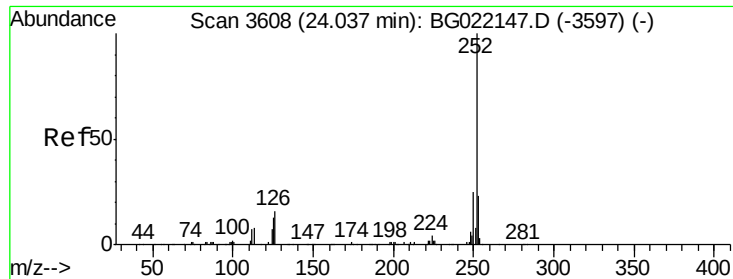
Acq: 2 Jun 2016 12:48

Tgt Ion:149 Resp: 76524



Abundance Ion 149.00 (148.70 to 149.70): E





#85

Benzo(b)fluoranthene

Concen: 11.48 ng/ul

RT: 24.06 min Scan# 3611

Delta R.T. 0.02 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203

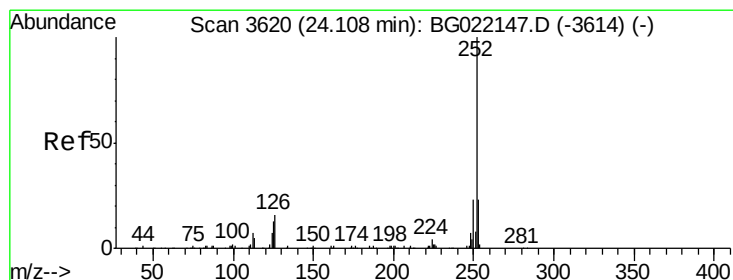
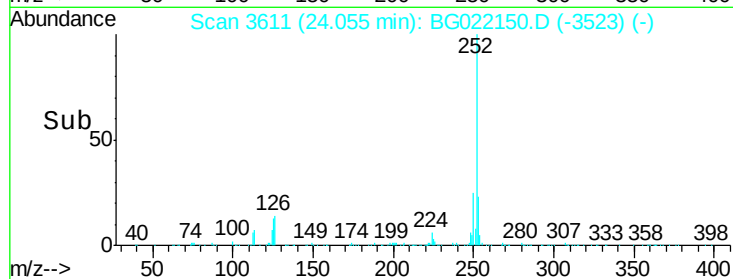
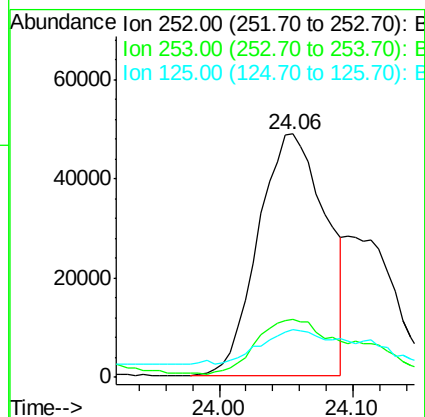
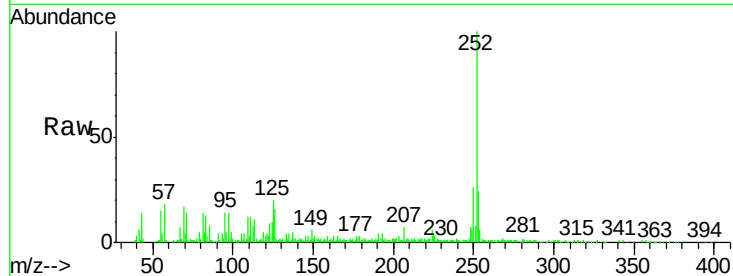
Tgt Ion:252 Resp: 170863

Ion Ratio Lower Upper

252 100

253 23.7 18.2 27.2

125 19.7 10.8 16.2#



#86

Benzo(k)fluoranthene

Concen: 11.80 ng/ul

RT: 24.06 min Scan# 3611

Delta R.T. -0.05 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

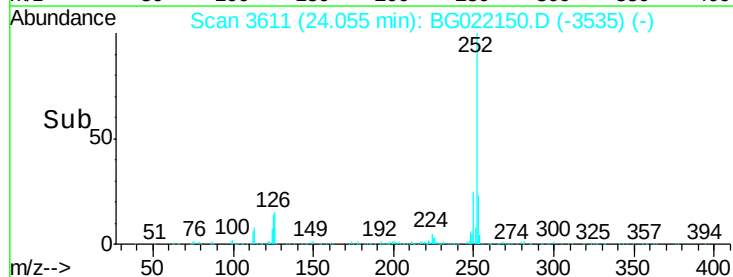
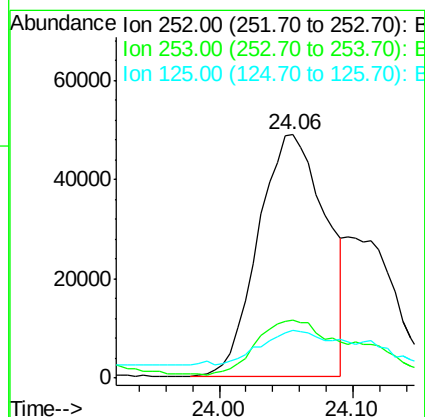
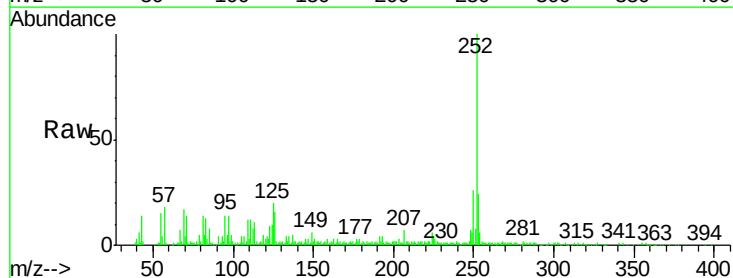
Tgt Ion:252 Resp: 170863

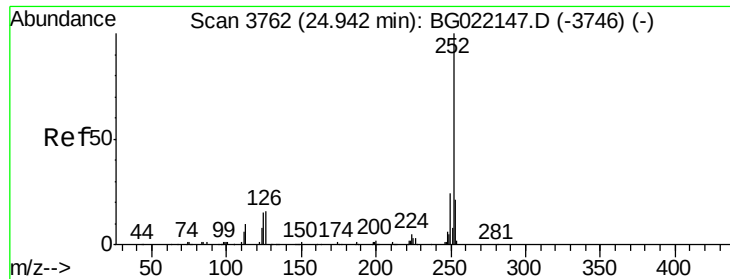
Ion Ratio Lower Upper

252 100

253 23.7 15.8 23.6#

125 19.7 10.6 16.0#





#88

Benzo(a)pyrene

Concen: 8.55 ng/ul

RT: 24.95 min Scan# 3763

Delta R.T. 0.01 min

Lab File: BG022150.D

Acq: 2 Jun 2016 12:48

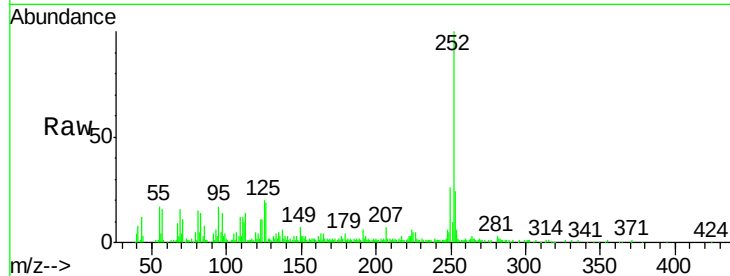
Instrument :

BNA_G

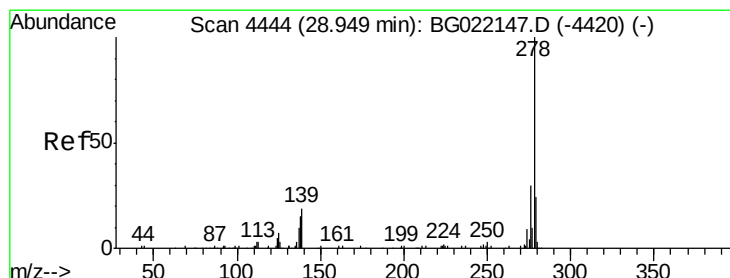
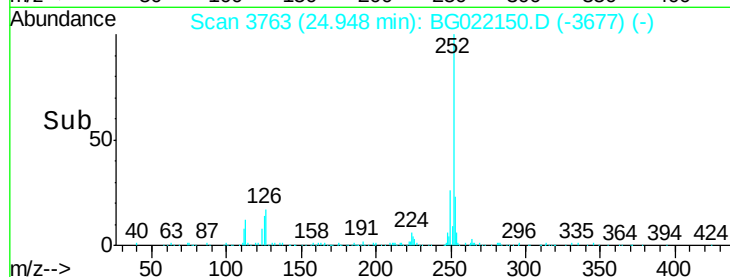
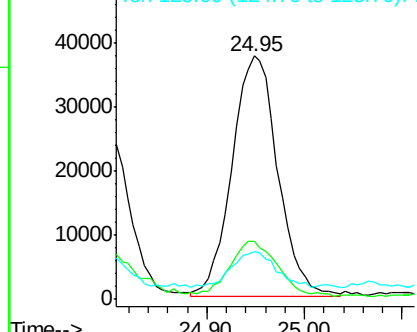
ClientSampleId :

CB203

Tgt Ion:	252	Resp:	122725
Ion Ratio	Lower	Upper	
252	100		
253	23.8	19.0	28.4
125	19.6	12.0	18.0#



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



#90

Dibenzo(a,h)anthracene

Concen: 1.53 ng/ul

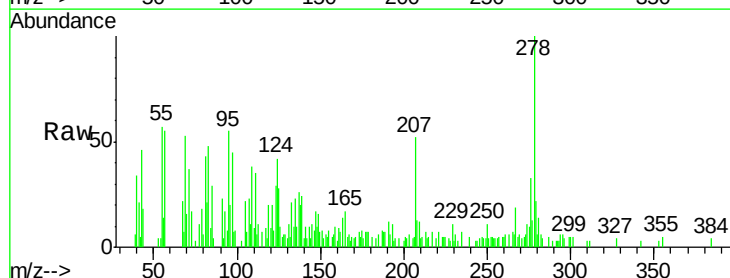
RT: 29.39 min Scan# 4519

Delta R.T. 0.44 min

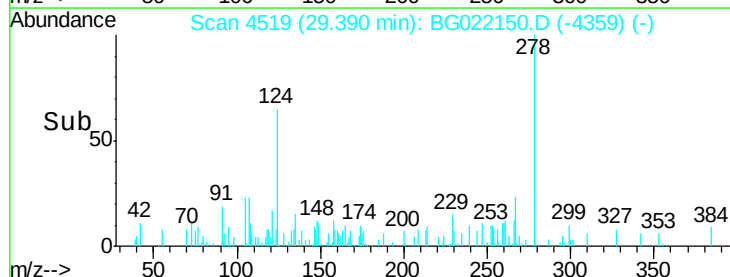
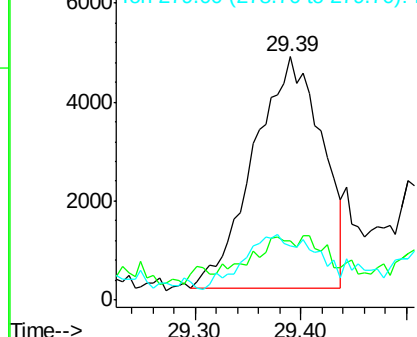
Lab File: BG022150.D

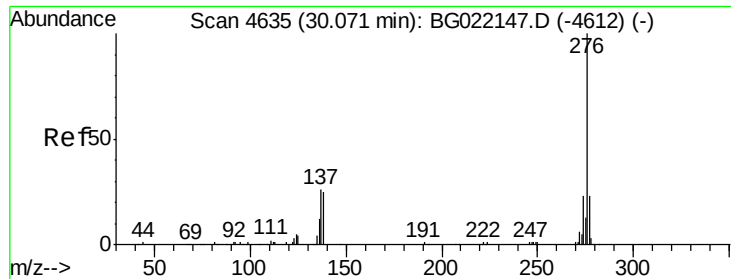
Acq: 2 Jun 2016 12:48

Tgt Ion:	278	Resp:	21024
Ion Ratio	Lower	Upper	
278	100		
139	24.2	16.3	24.5
279	22.0	19.1	28.7



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 5.71 ng/ul

RT: 30.08 min Scan# 4637

Delta R.T. 0.01 min

Lab File: BG022150.D

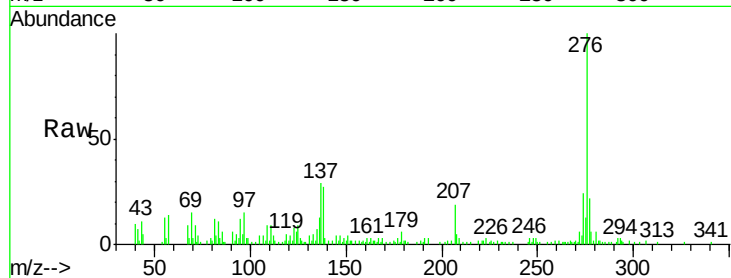
Acq: 2 Jun 2016 12:48

Instrument :

BNA_G

ClientSampleId :

CB203



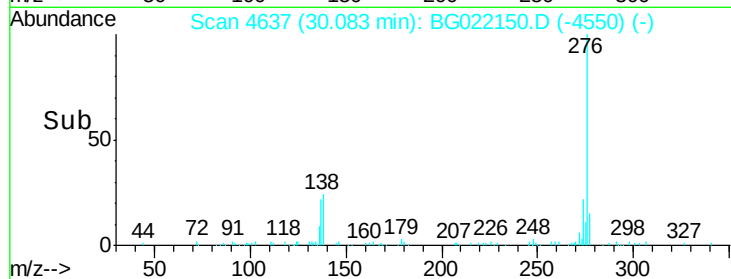
Tgt Ion: 276 Resp: 75278

Ion Ratio Lower Upper

276 100

138 27.0 22.1 33.1

277 22.1 17.0 25.4



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

