

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121615\
 Data File : BG020204.D
 Acq On : 16 Dec 2015 00:37
 Operator : UM/SJ
 Sample : G4786-15
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9C88

Quant Time: Dec 16 03:49:04 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 16 03:45:51 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	25394	20.00	ng/ul	0.00
18) Naphthalene-d8	10.94	136	109882	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.73	164	83448	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	168087	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	197642	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	188178	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	595	1.29	ng/uL	0.00
5) Phenol-d5	7.25	99	14383	6.42	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	37012	27.70	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	38089	23.39	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	28766	15.02	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	35446	41.38	ng/ul	0.01
22) 2-Nitrophenol-d4	10.00	143	29951	31.42	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.55	165	51398	26.62	ng/ul	0.02
29) 4-Chloroaniline-d4	11.04	131	10629	4.90	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	172352	25.53	ng/ul	0.00
47) Acenaphthylene-d8	14.43	160	209704	26.70	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	7681	6.34	ng/ul	0.02
58) Fluorene-d10	15.72	176	159885	26.12	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	31925	32.04	ng/ul	0.00
71) Anthracene-d10	17.57	188	236669	30.56	ng/ul	0.00
79) Pyrene-d10	19.86	212	263781	28.64	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	289942	30.89	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.24	77	98224	67.76	ng/ul#	1
6) Phenol	7.28	94	14141	5.90	ng/ul	96
11) 2-Methylphenol	8.54	108	6687	3.66	ng/ul	99
14) Acetophenone	8.93	105	44575	14.87	ng/ul	94
16) 4-Methylphenol	8.86	108	3630	1.79	ng/ul	81
17) Hexachloroethane	9.21	117	49188	68.62	ng/ul#	1
20) Nitrobenzene	9.29	77	11172	4.92	ng/ul#	4
24) 2,4-Dimethylphenol	10.10	107	252650	108.86	ng/ul	99
25) Bis(2-Chloroethoxy)methane	10.35	93	8469	3.61	ng/ul#	1
28) Naphthalene	11.04	128	7356515	1282.02	ng/ul#	46
30) 4-Chloroaniline	11.04	127	1985020	896.65	ng/ul#	15
34) 2-Methylnaphthalene	12.59	142	1691732	385.97	ng/ul	99
35) 1-Methylnaphthalene	12.80	142	1370092	325.14	ng/ul#	95
41) 1,1'-Biphenyl	13.56	154	125084	19.87	ng/ul	97
43) 2-Nitroaniline	13.76	65	4347	2.54	ng/ul#	30
48) Acenaphthylene	14.46	152	75820	9.09	ng/ul#	80
50) Acenaphthene	14.80	153	344807	61.42	ng/ul	99
54) Dibenzofuran	15.13	168	47697	5.71	ng/ul	96
59) Fluorene	15.77	166	134904	20.12	ng/ul	99
61) 4-Nitroaniline	15.77	138	1655	1.11	ng/ul#	52
65) N-Nitrosodiphenylamine	15.98	169	5155	1.10	ng/ul#	1
70) Phenanthrene	17.52	178	268149	29.17	ng/ul	99
72) Anthracene	17.60	178	58295	6.25	ng/ul	97

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Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
G9C88

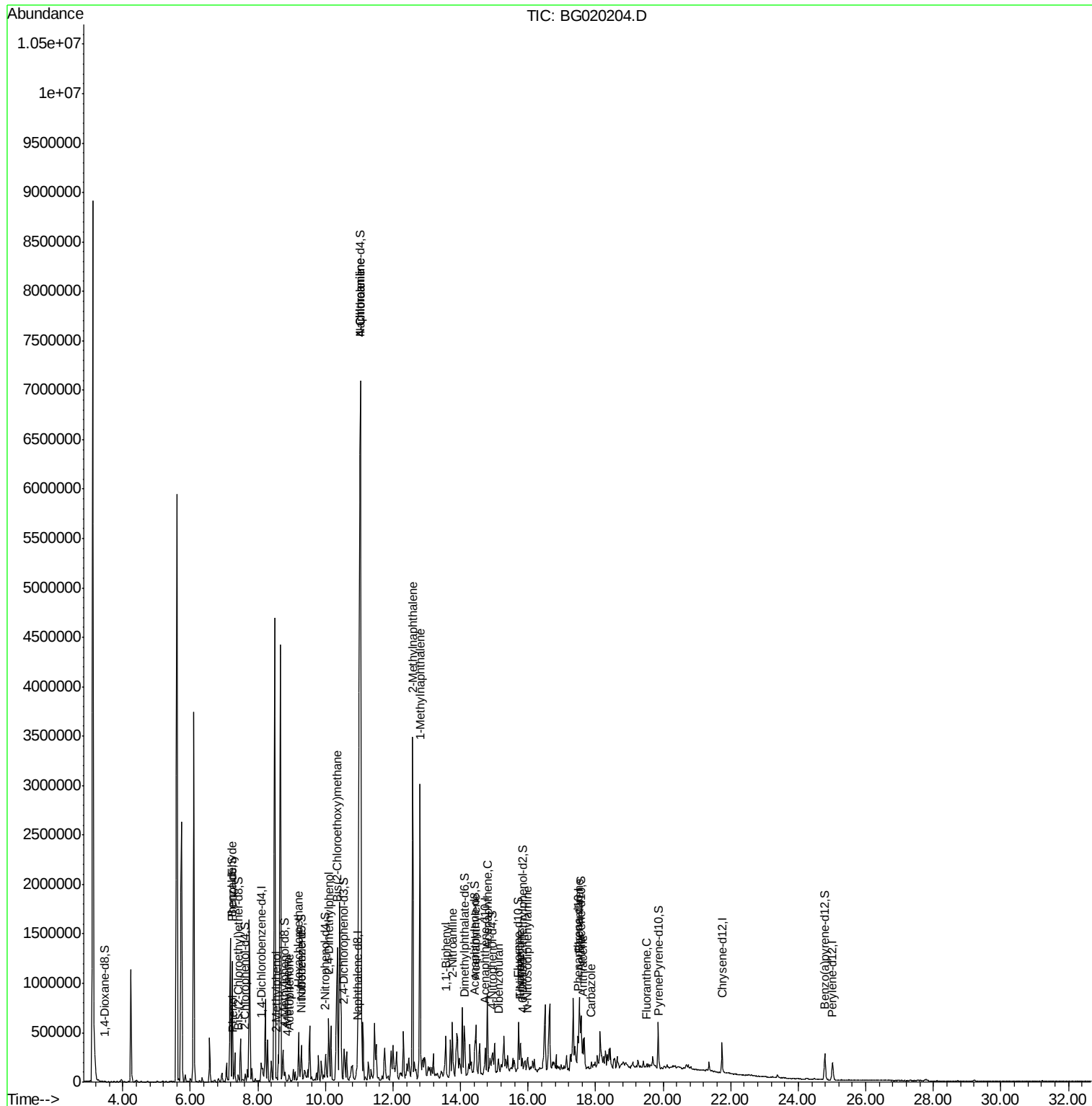
Quant Time: Dec 16 03:49:04 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 16 03:45:51 2015
Response via : Initial Calibration

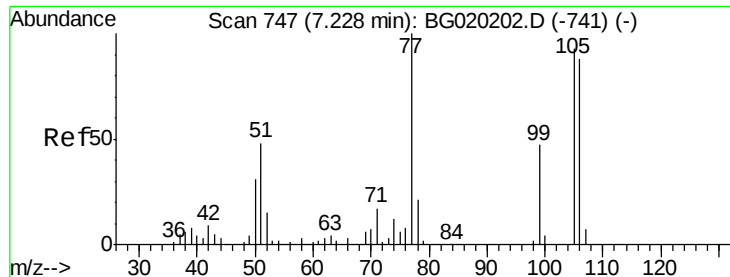
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) Carbazole	17.88	167	45215	5.77	ng/ul#	96
77) Fluoranthene	19.52	202	27880	2.59	ng/ul	98
80) Pyrene	19.88	202	43655	3.65	ng/ul	99

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

```
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Operator  : UM/SJ  
Sample    : G4786-15  
Misc      :  
ALS Vial  : 50      Sample Multiplier: 1
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Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 16 03:45:51 2015
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 67.76 ng/ul

RT: 7.24 min Scan# 749

Delta R.T. 0.01 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

G9C88

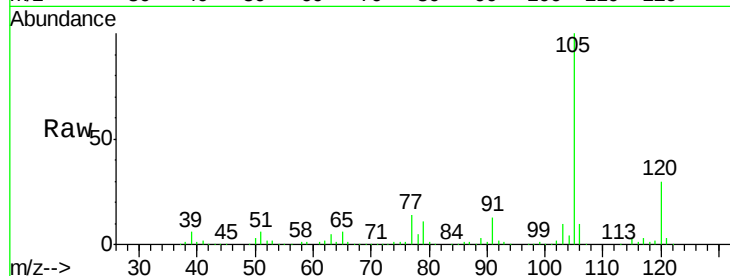
Tgt Ion: 77 Resp: 98224

Ion Ratio Lower Upper

77 100

105 712.6 77.8 116.6#

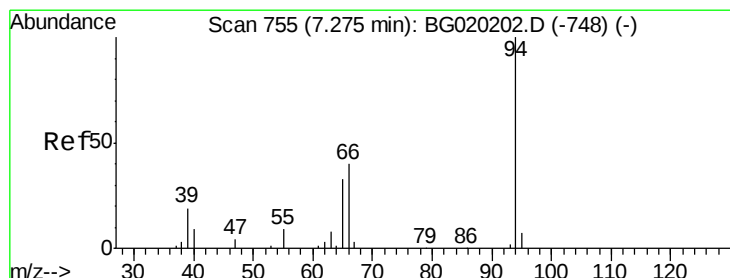
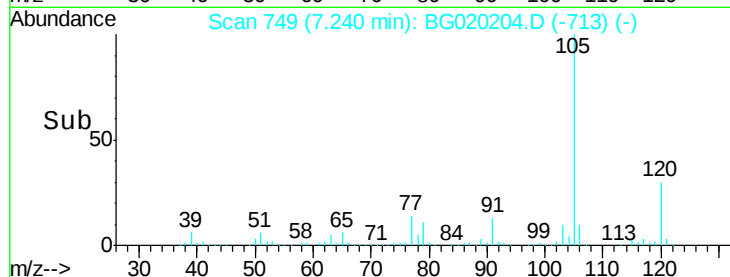
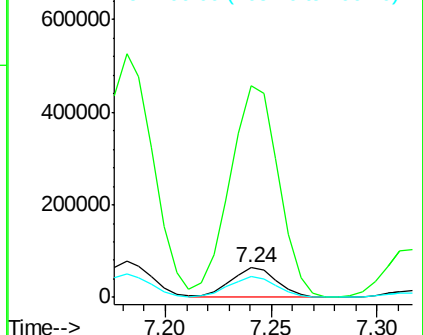
106 68.9 72.6 109.0#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#6

Phenol

Concen: 5.90 ng/ul

RT: 7.28 min Scan# 755

Delta R.T. 0.00 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

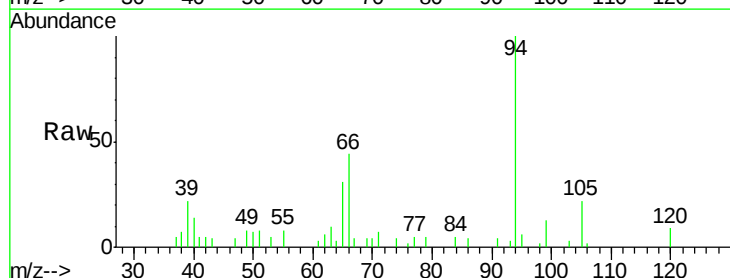
Tgt Ion: 94 Resp: 14141

Ion Ratio Lower Upper

94 100

65 30.7 26.3 39.5

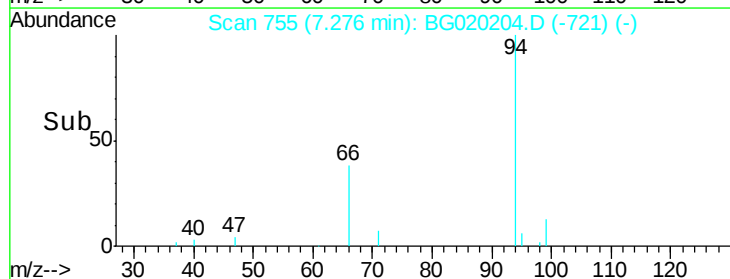
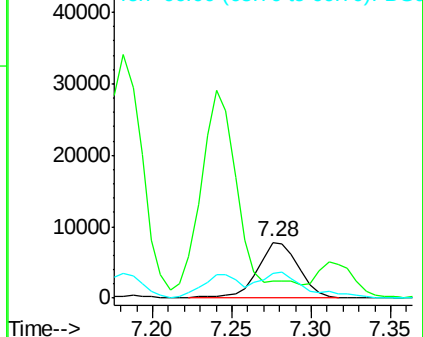
66 43.7 33.3 49.9

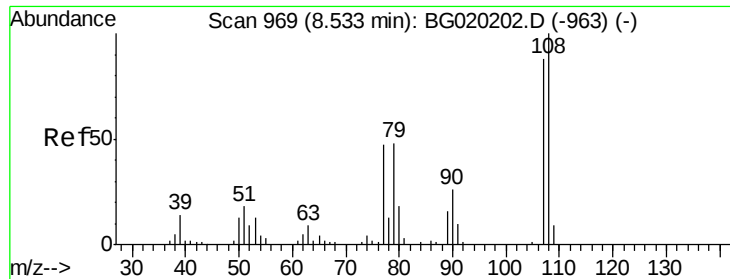


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

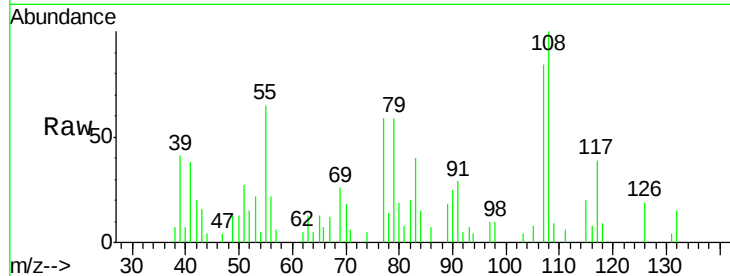




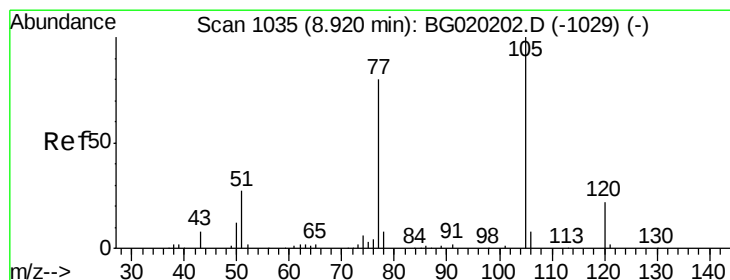
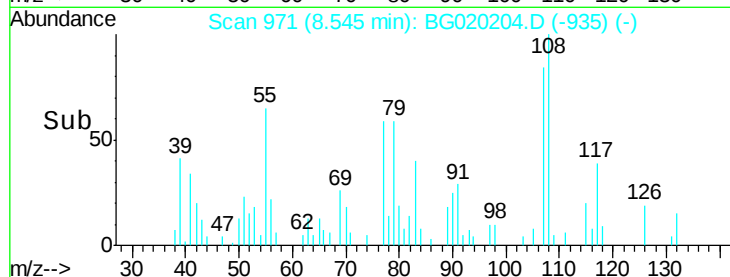
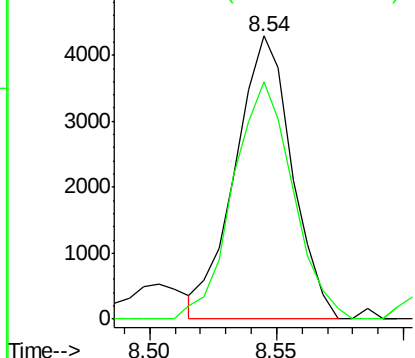
#11
2-Methylphenol
Concen: 3.66 ng/ul
RT: 8.54 min Scan# 971
Delta R.T. 0.01 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

Instrument :
BNA_G
ClientSampled :
G9C88

Tgt Ion:108 Resp: 6687
Ion Ratio Lower Upper
108 100
107 83.9 67.5 101.3

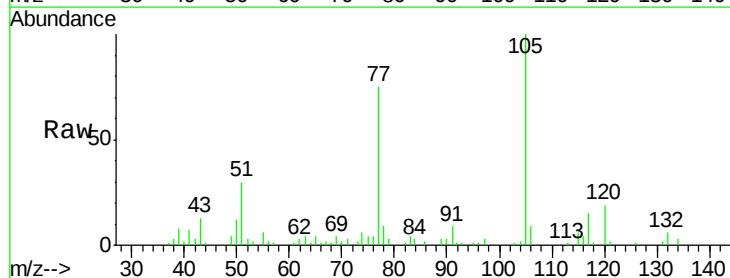


Abundance Ion 108.00 (107.70 to 108.70): E
Ion 107.00 (106.70 to 107.70): E

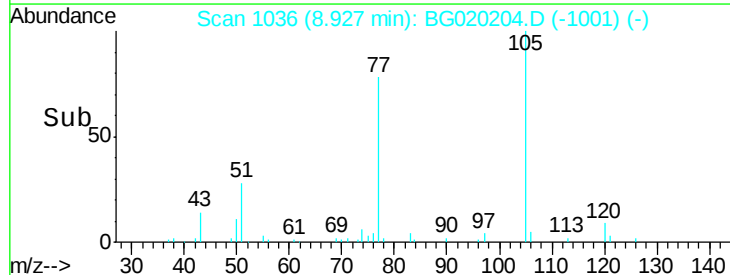
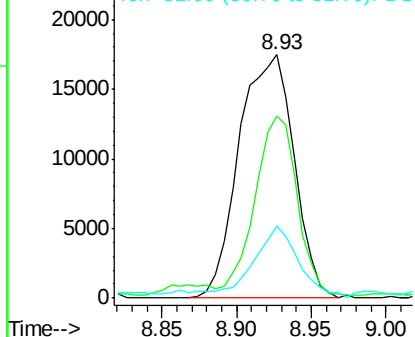


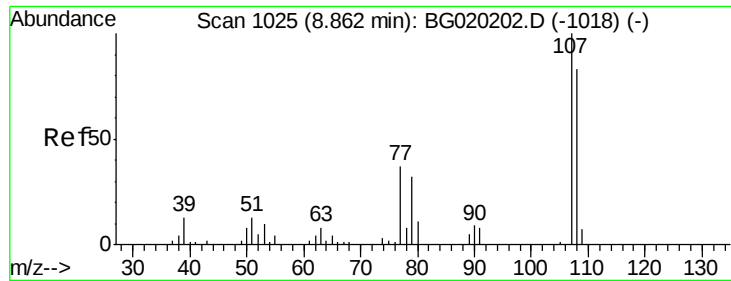
#14
Acetophenone
Concen: 14.87 ng/ul
RT: 8.93 min Scan# 1036
Delta R.T. 0.01 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

Tgt Ion:105 Resp: 44575
Ion Ratio Lower Upper
105 100
77 74.9 65.2 97.8
51 29.8 22.6 33.8



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BG
Ion 51.00 (50.70 to 51.70): BG

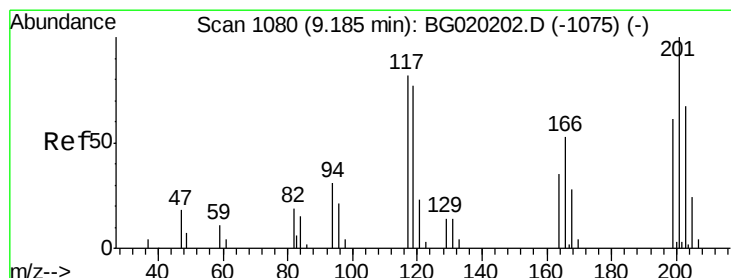
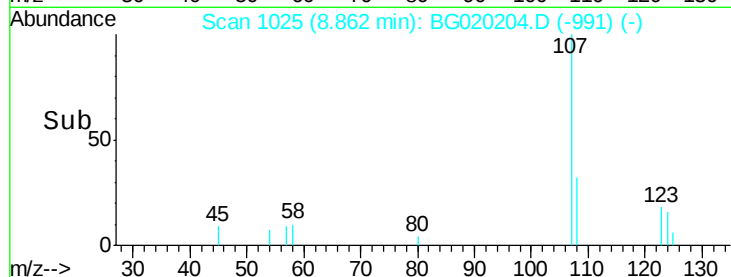
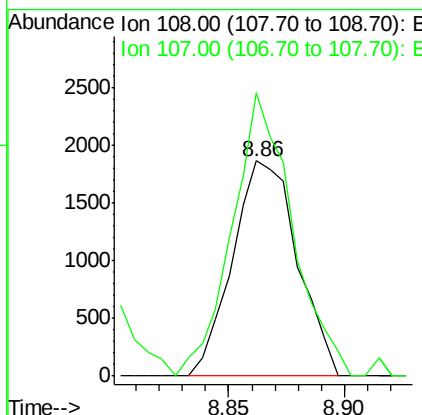
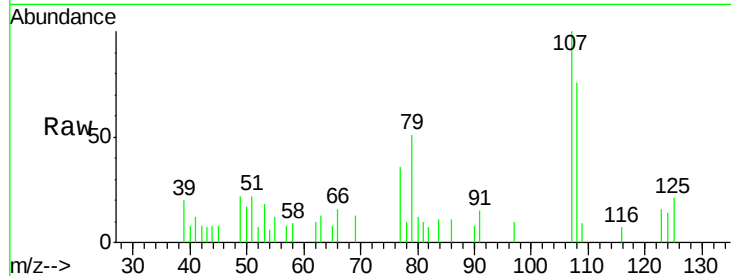




#16
4-Methylphenol
Concen: 1.79 ng/ul
RT: 8.86 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

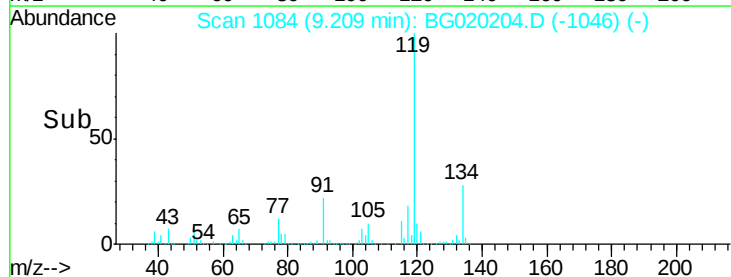
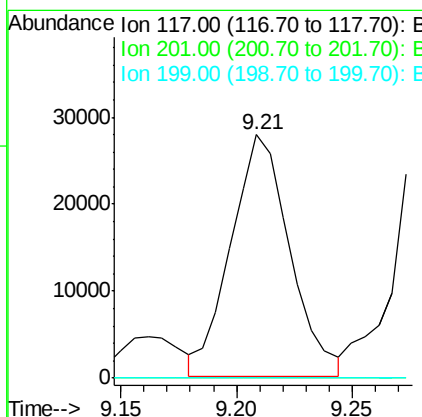
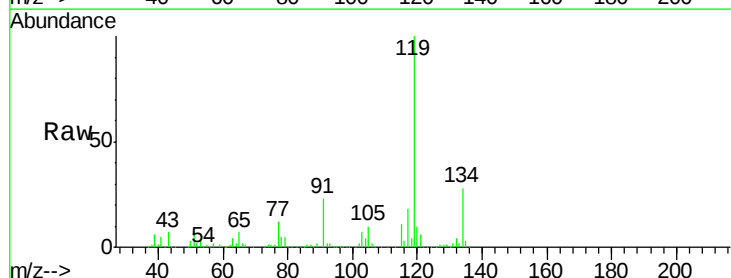
Instrument :
BNA_G
ClientSampled :
G9C88

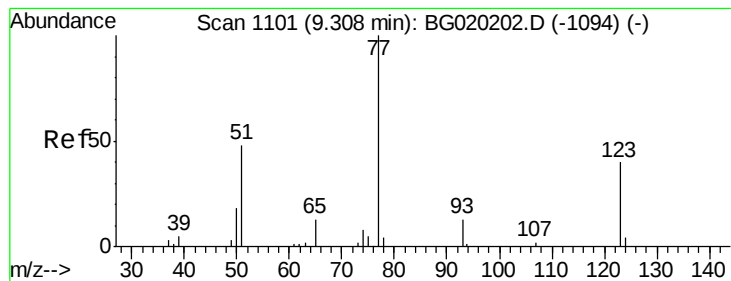
Tgt Ion:108 Resp: 3630
Ion Ratio Lower Upper
108 100
107 131.5 88.9 133.3



#17
Hexachloroethane
Concen: 68.62 ng/ul
RT: 9.21 min Scan# 1084
Delta R.T. 0.02 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

Tgt Ion:117 Resp: 49188
Ion Ratio Lower Upper
117 100
201 0.0 102.7 154.1#
199 0.0 65.8 98.8#





#20

Nitrobenzene

Concen: 4.92 ng/ul

RT: 9.29 min Scan# 1098

Delta R.T. -0.02 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

G9C88

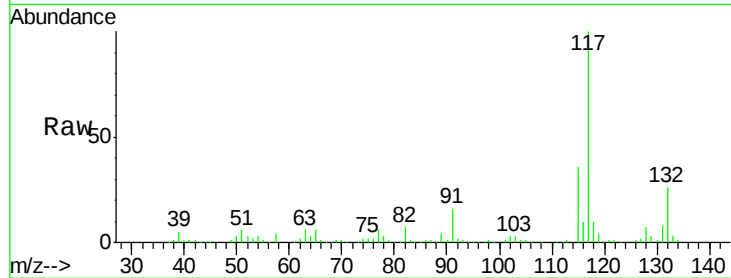
Tgt Ion: 77 Resp: 11172

Ion Ratio Lower Upper

77 100

123 3.7 33.4 50.0#

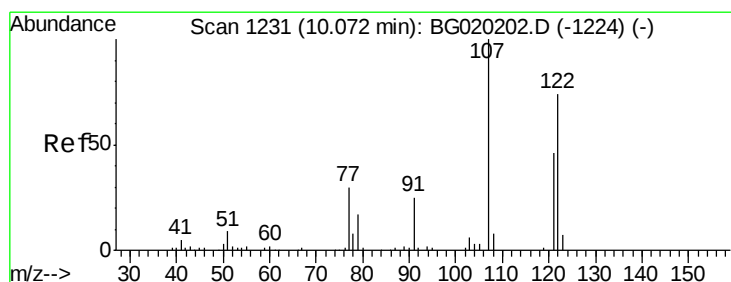
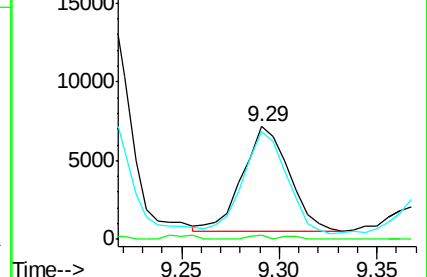
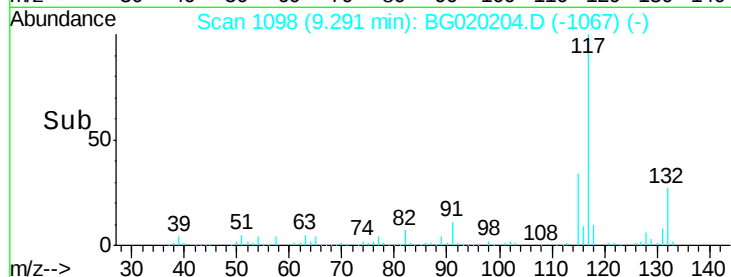
65 96.0 11.7 17.5#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC



#24

2,4-Dimethylphenol

Concen: 108.86 ng/ul

RT: 10.10 min Scan# 1235

Delta R.T. 0.02 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

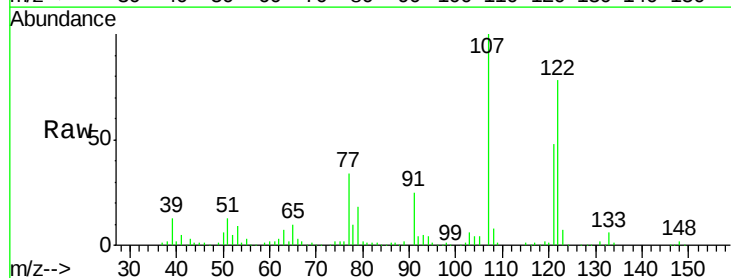
Tgt Ion: 107 Resp: 252650

Ion Ratio Lower Upper

107 100

121 48.4 39.0 58.4

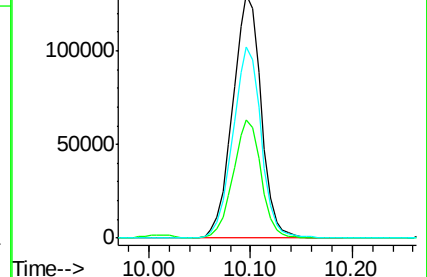
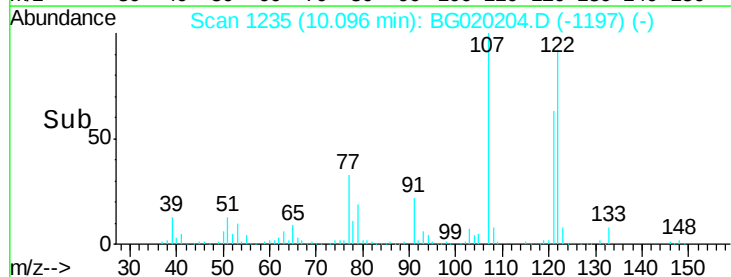
122 78.3 62.1 93.1

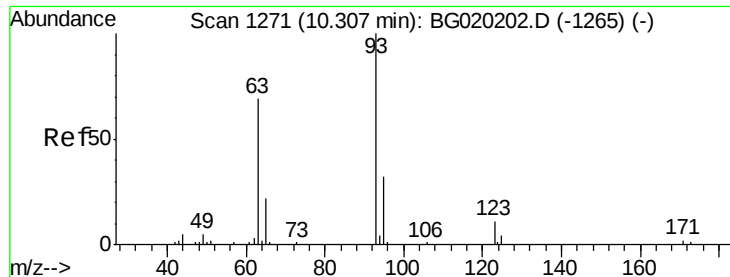


Abundance Ion 107.00 (106.70 to 107.70): BGC

Ion 121.00 (120.70 to 121.70): BGC

Ion 122.00 (121.70 to 122.70): BGC





#25

Bis(2-Chloroethoxy)methane

Concen: 3.61 ng/ul

RT: 10.35 min Scan# 1278

Delta R.T. 0.04 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

G9C88

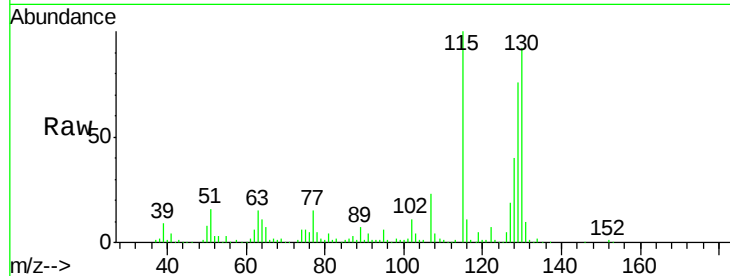
Tgt Ion: 93 Resp: 8469

Ion Ratio Lower Upper

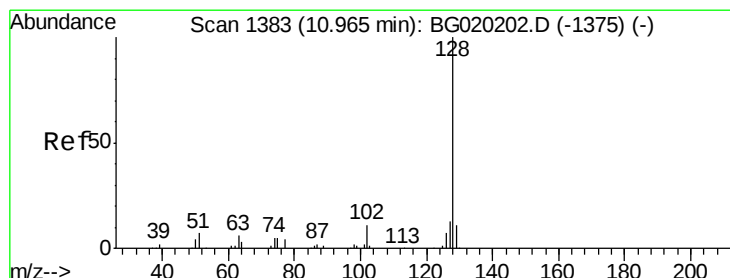
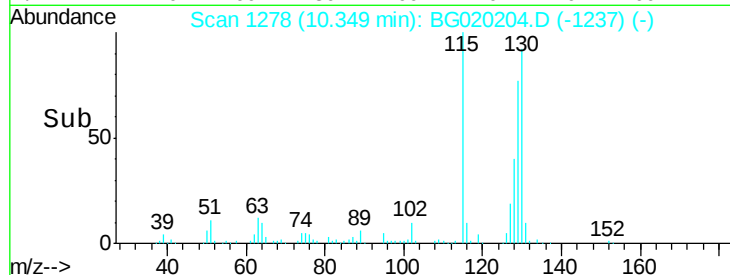
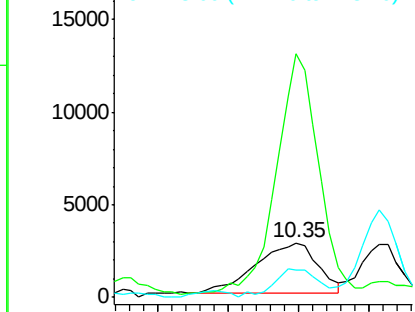
93 100

95 447.3 27.4 41.2#

123 50.9 9.4 14.0#



Abundance Ion 93.00 (92.70 to 93.70): BGC
Ion 95.00 (94.70 to 95.70): BGC
Ion 123.00 (122.70 to 123.70): BGC



#28

Naphthalene

Concen: 1282.02 ng/ul

RT: 11.04 min Scan# 1395

Delta R.T. 0.07 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

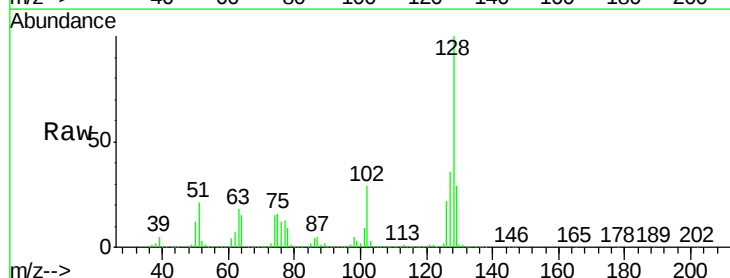
Tgt Ion: 128 Resp: 7356515

Ion Ratio Lower Upper

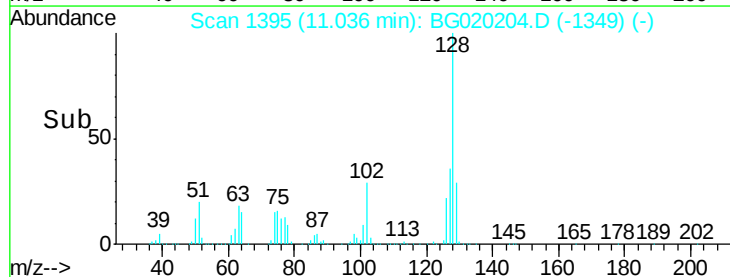
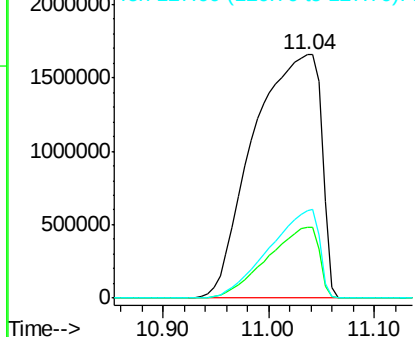
128 100

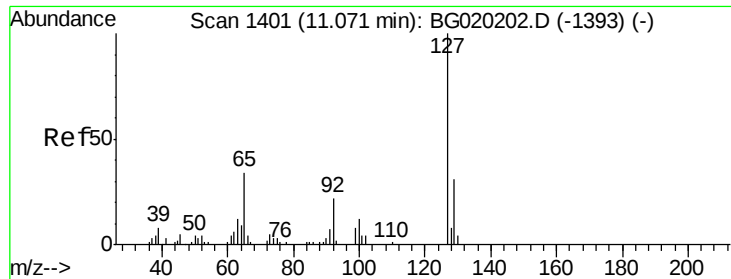
129 29.3 8.6 12.8#

127 35.7 10.1 15.1#



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





#30

4-Chloroaniline

Concen: 896.65 ng/ul

RT: 11.04 min Scan# 1396

Delta R.T. -0.03 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

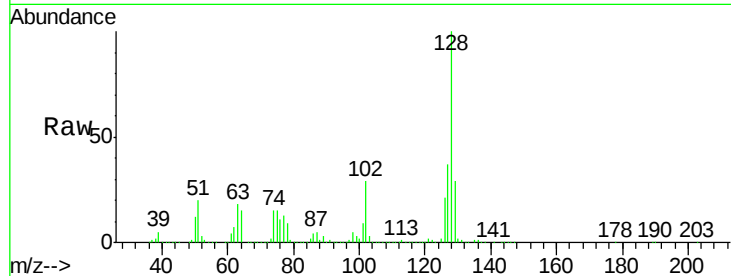
G9C88

Tgt Ion:127 Resp: 1985020

Ion Ratio Lower Upper

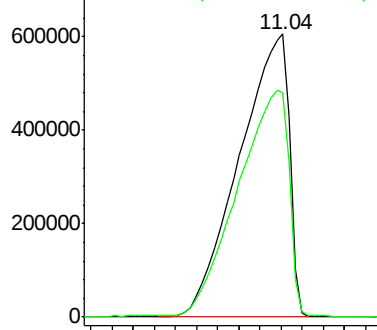
127 100

129 79.4 25.7 38.5#

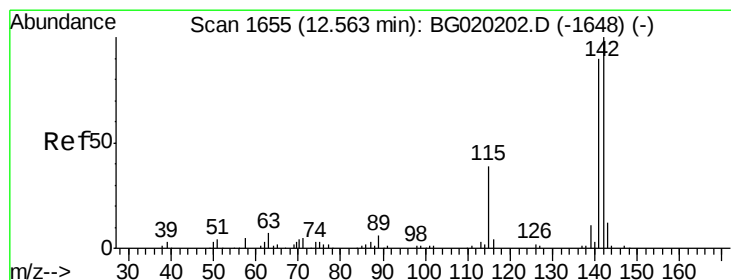
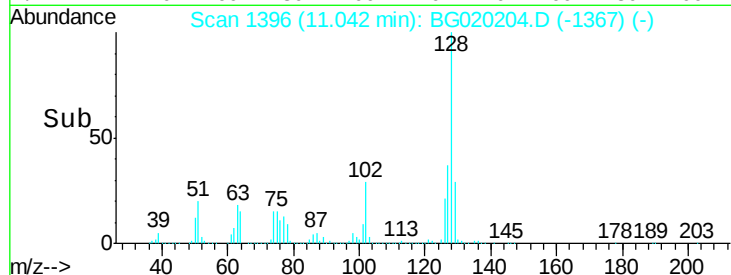


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E



Time-->



#34

2-Methylnaphthalene

Concen: 385.97 ng/ul

RT: 12.59 min Scan# 1659

Delta R.T. 0.02 min

Lab File: BG020204.D

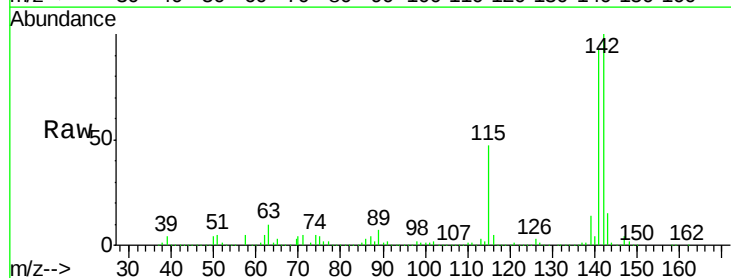
Acq: 16 Dec 2015 00:37

Tgt Ion:142 Resp: 1691732

Ion Ratio Lower Upper

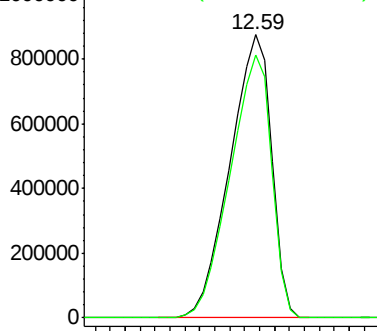
142 100

141 93.0 74.9 112.3

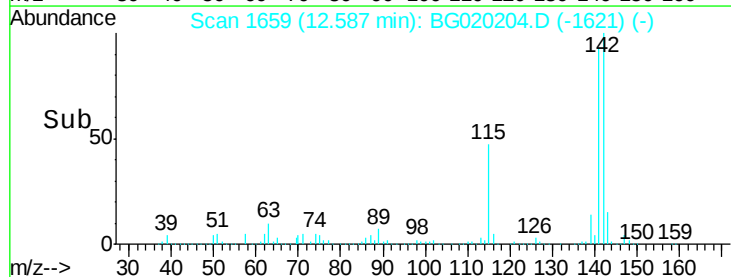


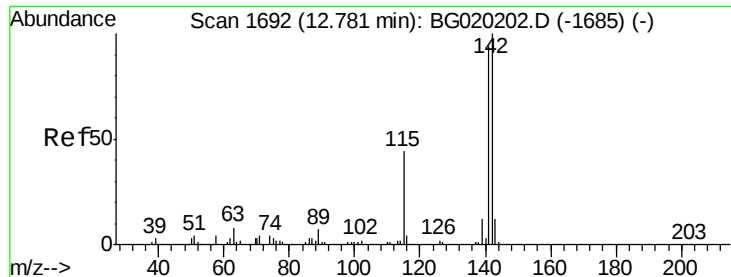
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



Time-->

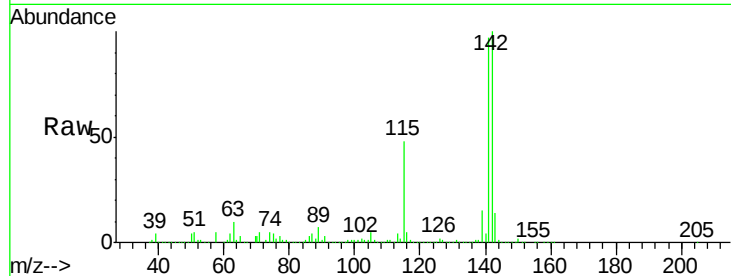




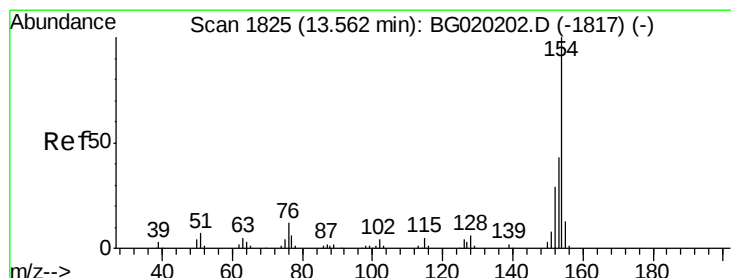
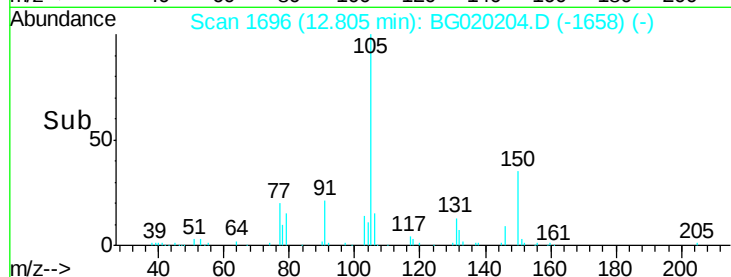
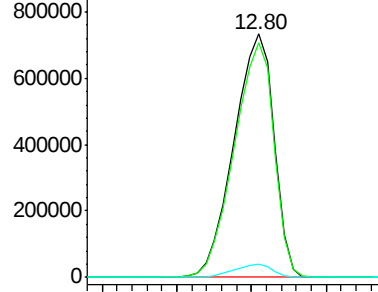
#35
 1-Methylnaphthalene
 Concen: 325.14 ng/ul
 RT: 12.80 min Scan# 1696
 Delta R.T. 0.02 min
 Lab File: BG020204.D
 Acq: 16 Dec 2015 00:37

Instrument :
 BNA_G
 ClientSampleId :
 G9C88

Tgt Ion:142 Resp: 1370092
 Ion Ratio Lower Upper
 142 100
 141 96.5 73.0 109.6
 116 5.3 3.0 4.6#

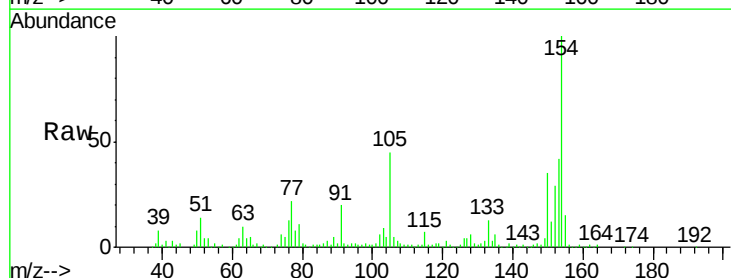


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 116.00 (115.70 to 116.70): E

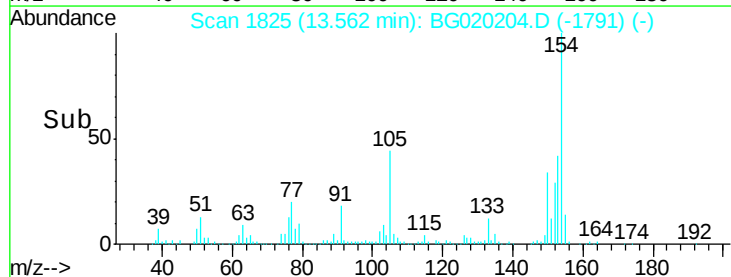
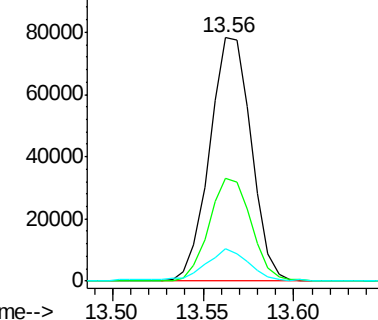


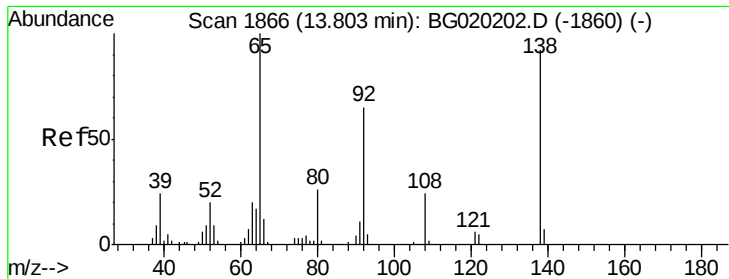
#41
 1,1'-Biphenyl
 Concen: 19.87 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. 0.00 min
 Lab File: BG020204.D
 Acq: 16 Dec 2015 00:37

Tgt Ion:154 Resp: 125084
 Ion Ratio Lower Upper
 154 100
 153 42.2 35.5 53.3
 76 13.5 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BG

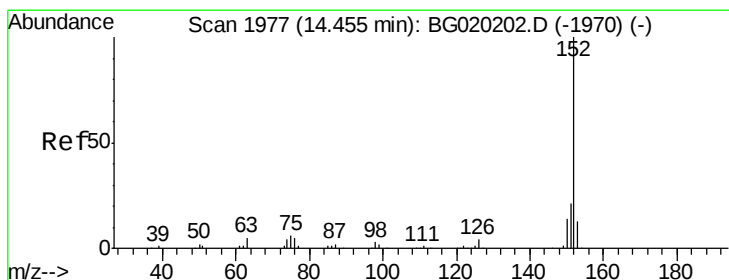
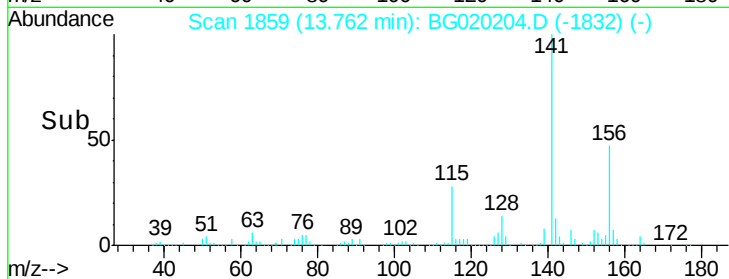
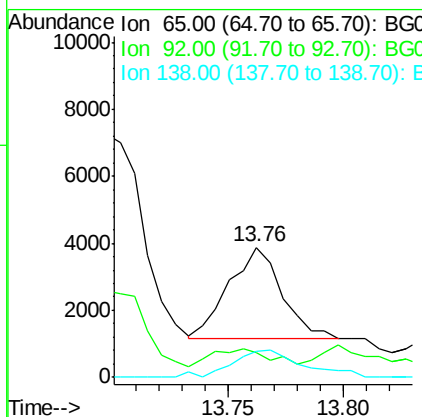
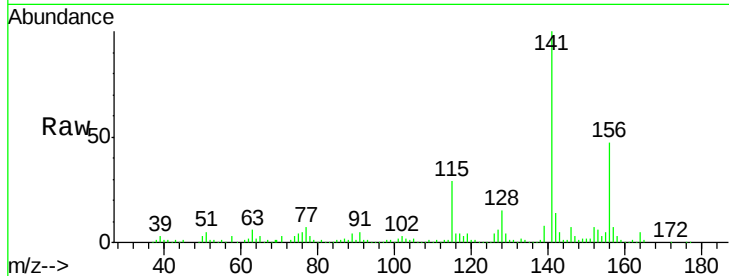




#43
2-Nitroaniline
Concen: 2.54 ng/ul
RT: 13.76 min Scan# 1859
Delta R.T. -0.04 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

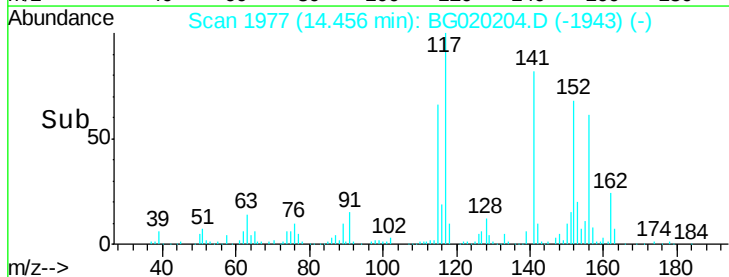
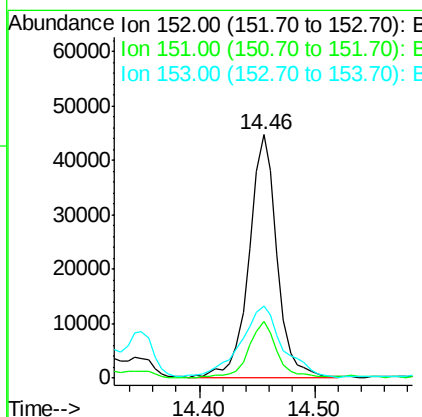
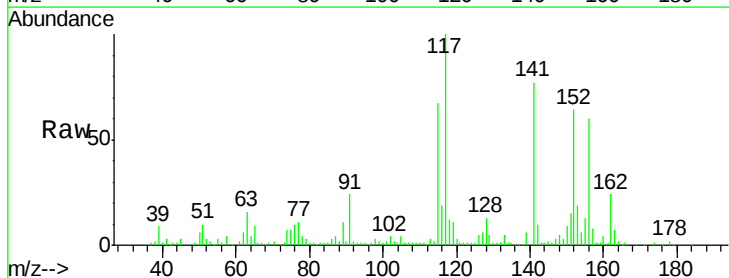
Instrument :
BNA_G
ClientSampled :
G9C88

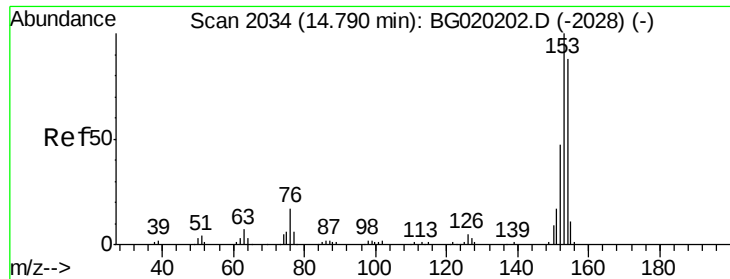
Tgt Ion: 65 Resp: 4347
Ion Ratio Lower Upper
65 100
92 19.0 53.1 79.7#
138 20.4 76.6 114.8#



#48
Acenaphthylene
Concen: 9.09 ng/ul
RT: 14.46 min Scan# 1977
Delta R.T. 0.00 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

Tgt Ion: 152 Resp: 75820
Ion Ratio Lower Upper
152 100
151 23.1 16.4 24.6
153 29.8 10.4 15.6#





#50

Acenaphthene

Concen: 61.42 ng/ul

RT: 14.80 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

G9C88

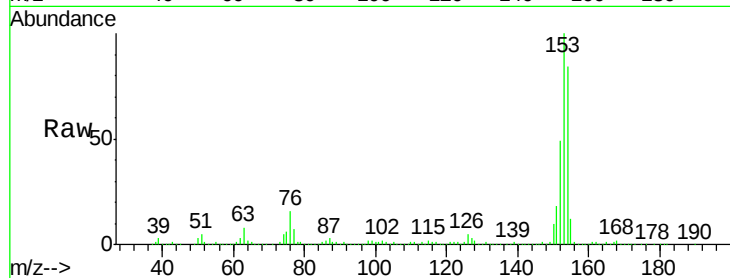
Tgt Ion:153 Resp: 344807

Ion Ratio Lower Upper

153 100

152 48.9 37.6 56.4

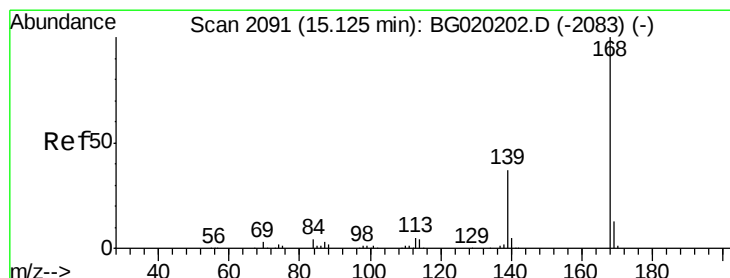
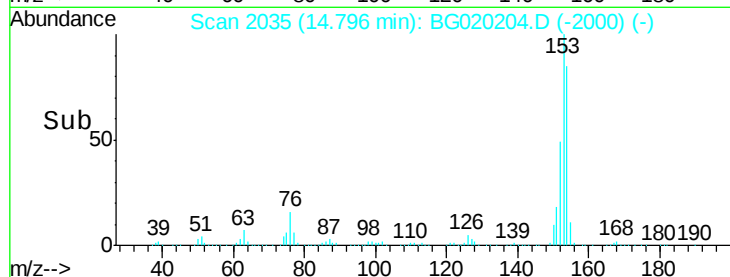
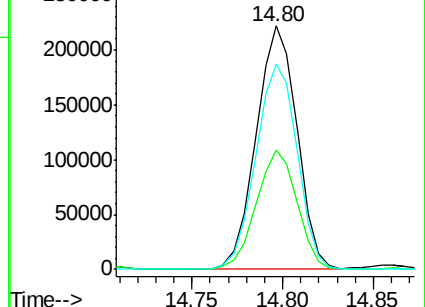
154 84.4 67.9 101.9



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



#54

Dibenzofuran

Concen: 5.71 ng/ul

RT: 15.13 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BG020204.D

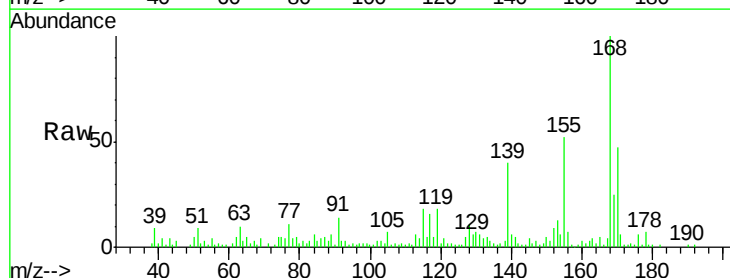
Acq: 16 Dec 2015 00:37

Tgt Ion:168 Resp: 47697

Ion Ratio Lower Upper

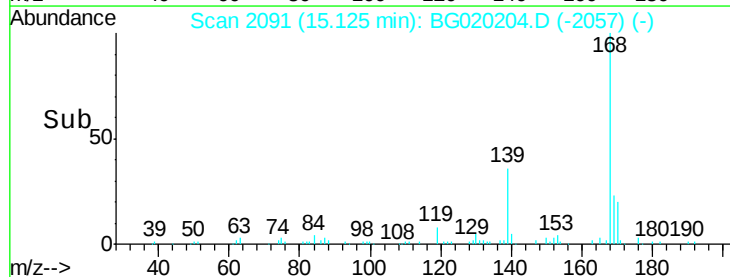
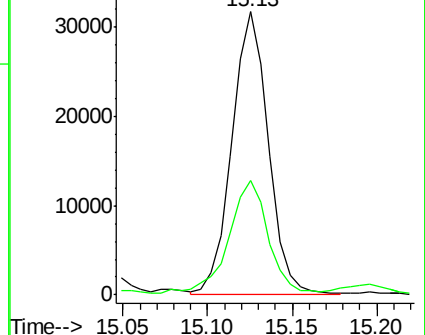
168 100

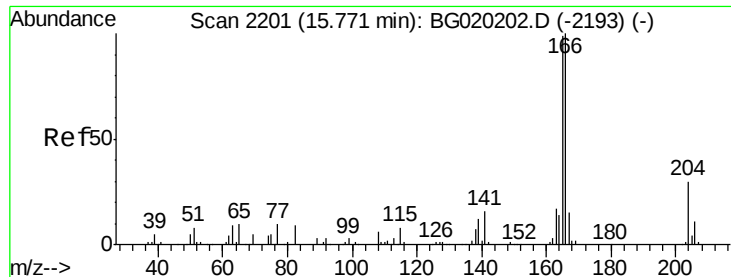
139 40.4 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 20.12 ng/ul

RT: 15.77 min Scan# 2201

Delta R.T. 0.00 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampleId :

G9C88

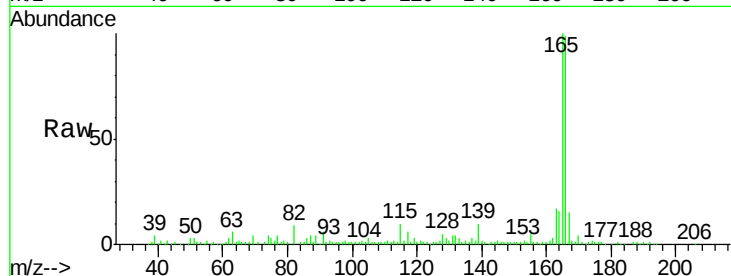
Tgt Ion:166 Resp: 134904

Ion Ratio Lower Upper

166 100

165 101.1 81.4 122.0

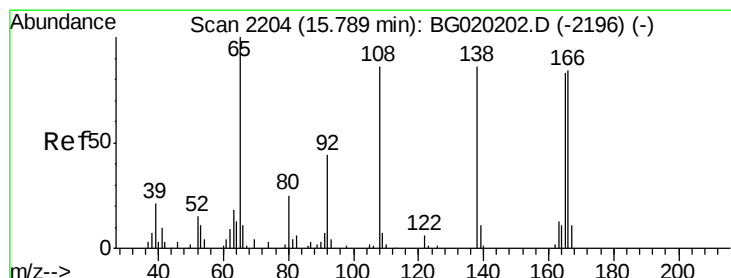
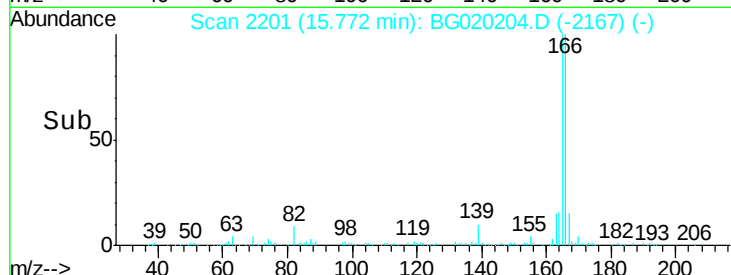
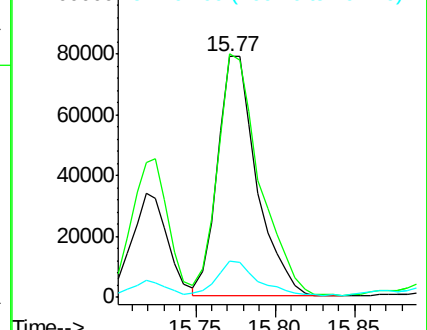
167 15.2 11.2 16.8



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



#61

4-Nitroaniline

Concen: 1.11 ng/ul

RT: 15.77 min Scan# 2201

Delta R.T. -0.02 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

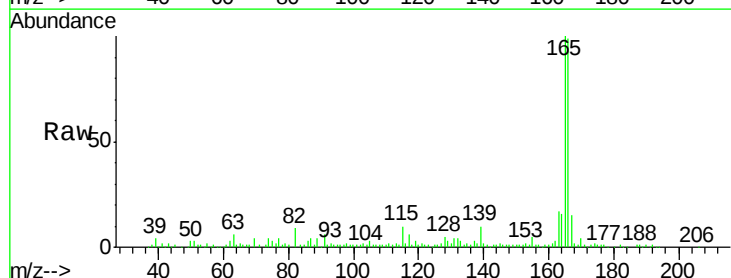
Tgt Ion:138 Resp: 1655

Ion Ratio Lower Upper

138 100

92 39.0 45.2 67.8#

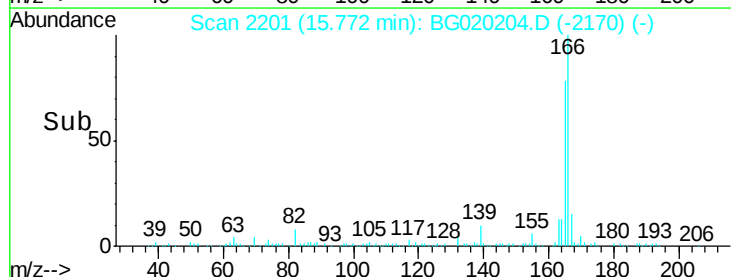
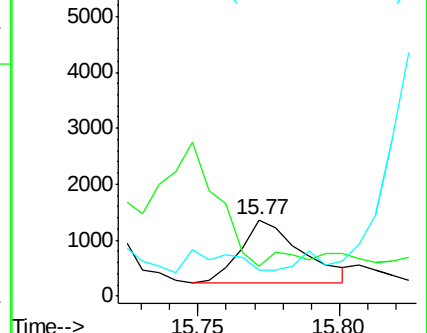
108 34.3 75.4 113.0#

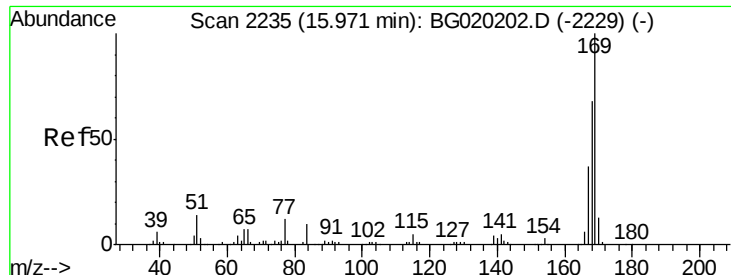


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E

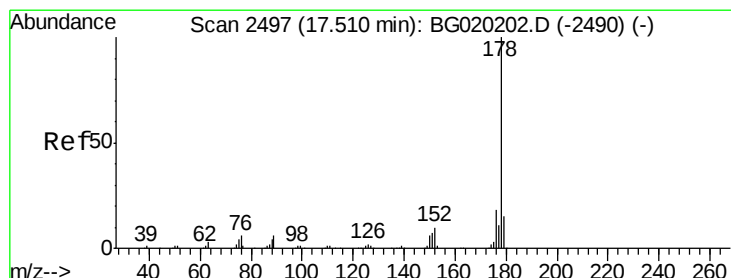
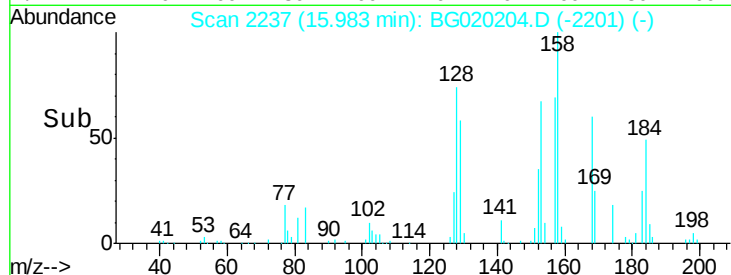
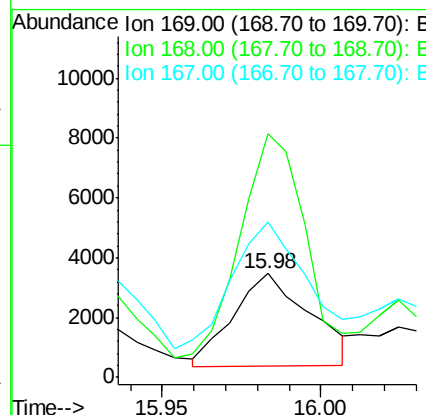
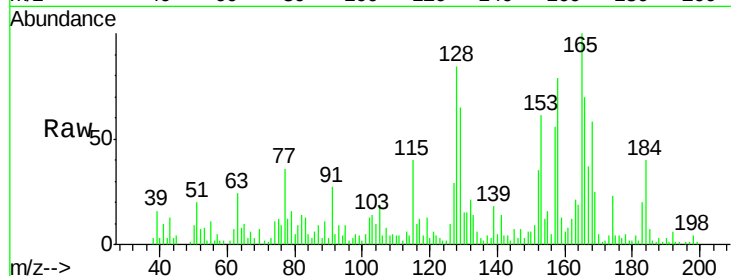




#65
N-Nitrosodiphenylamine
Concen: 1.10 ng/ul
RT: 15.98 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

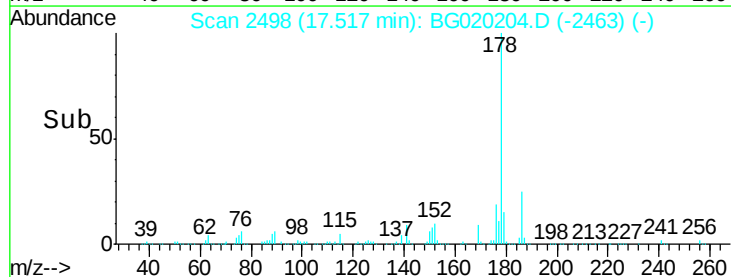
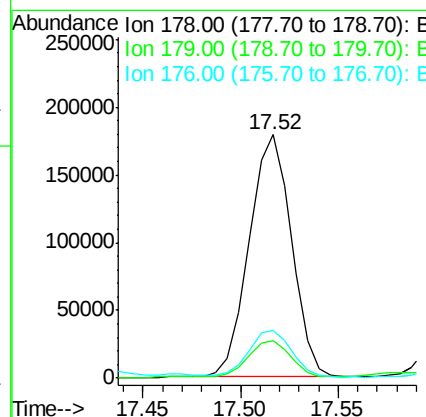
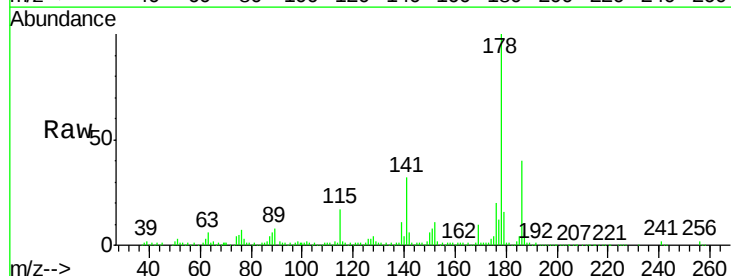
Instrument :
BNA_G
ClientSampleId :
G9C88

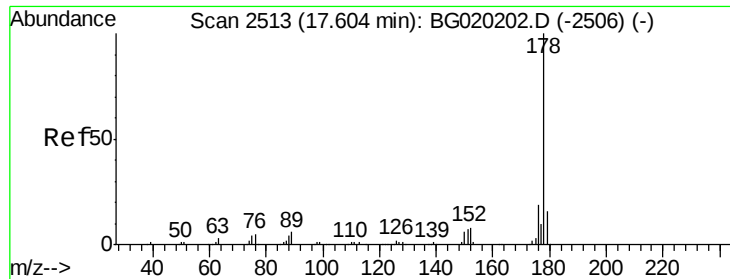
Tgt Ion:169 Resp: 5155
Ion Ratio Lower Upper
169 100
168 234.5 54.3 81.5#
167 150.0 31.8 47.8#



#70
Phenanthrene
Concen: 29.17 ng/ul
RT: 17.52 min Scan# 2498
Delta R.T. 0.01 min
Lab File: BG020204.D
Acq: 16 Dec 2015 00:37

Tgt Ion:178 Resp: 268149
Ion Ratio Lower Upper
178 100
179 15.6 12.9 19.3
176 19.8 15.3 22.9

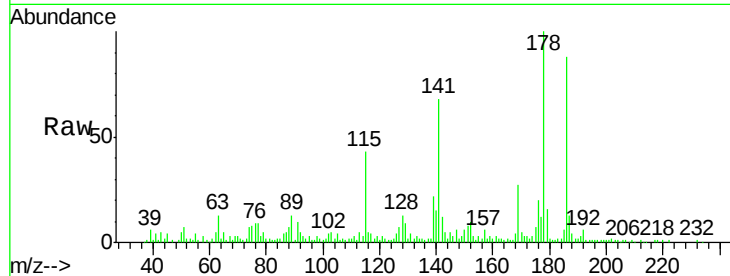




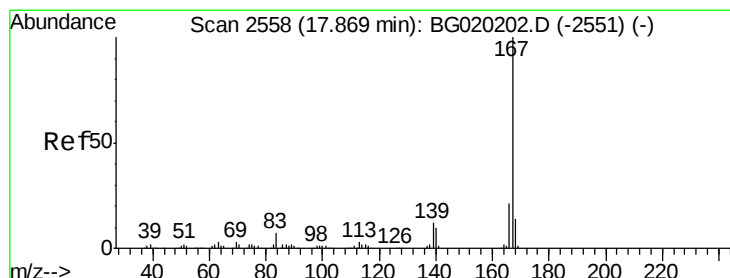
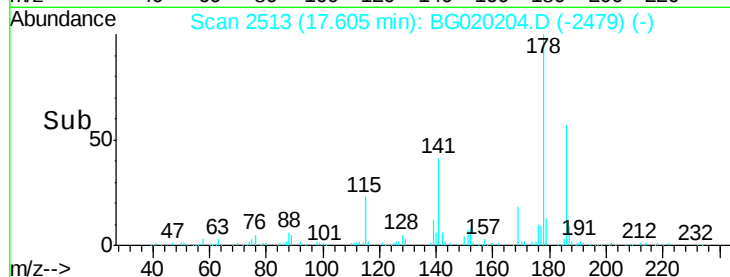
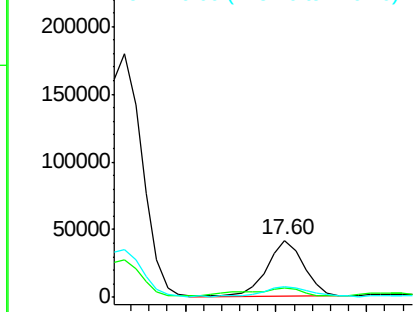
#72
 Anthracene
 Concen: 6.25 ng/ul
 RT: 17.60 min Scan# 2513
 Delta R.T. 0.00 min
 Lab File: BG020204.D
 Acq: 16 Dec 2015 00:37

Instrument :
 BNA_G
 ClientSampleId :
 G9C88

Tgt Ion:178 Resp: 58295
 Ion Ratio Lower Upper
 178 100
 179 16.1 12.3 18.5
 176 19.8 14.3 21.5

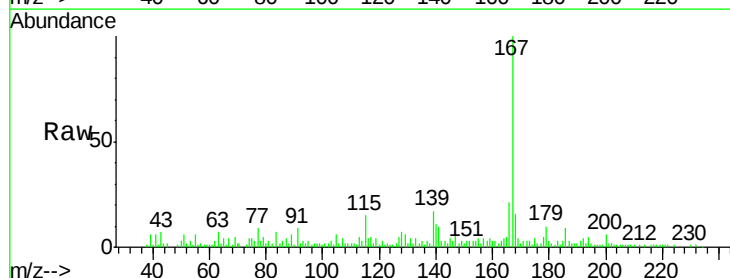


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E

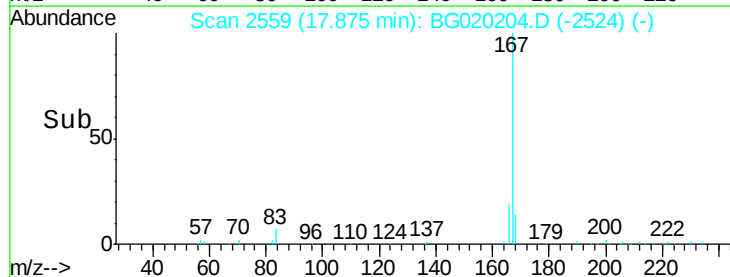
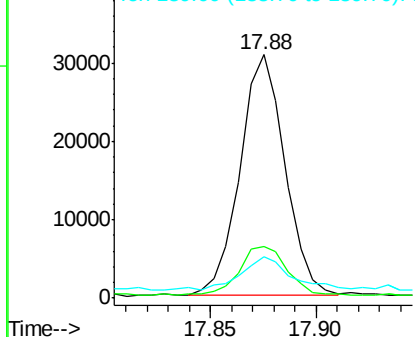


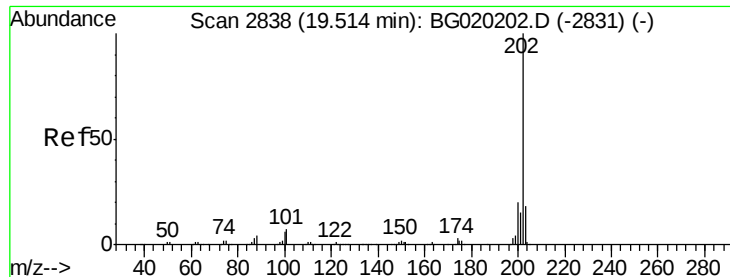
#75
 Carbazole
 Concen: 5.77 ng/ul
 RT: 17.88 min Scan# 2559
 Delta R.T. 0.01 min
 Lab File: BG020204.D
 Acq: 16 Dec 2015 00:37

Tgt Ion:167 Resp: 45215
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.0 25.6
 139 17.2 10.1 15.1#



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





#77

Fluoranthene

Concen: 2.59 ng/ul

RT: 19.52 min Scan# 2839

Delta R.T. 0.01 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

Instrument :

BNA_G

ClientSampled :

G9C88

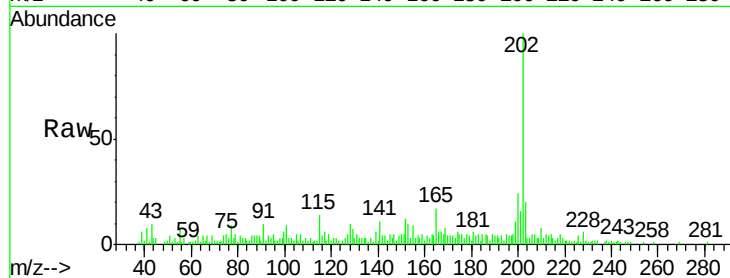
Tgt Ion:202 Resp: 27880

Ion Ratio Lower Upper

202 100

101 9.0 6.2 9.4

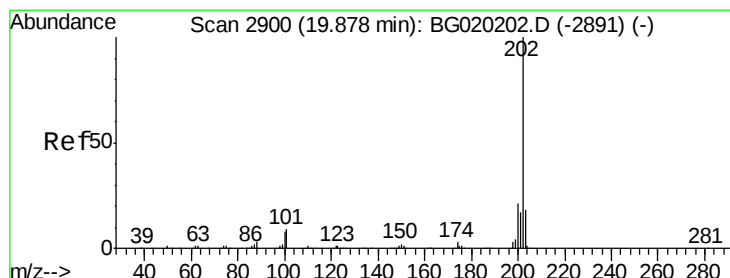
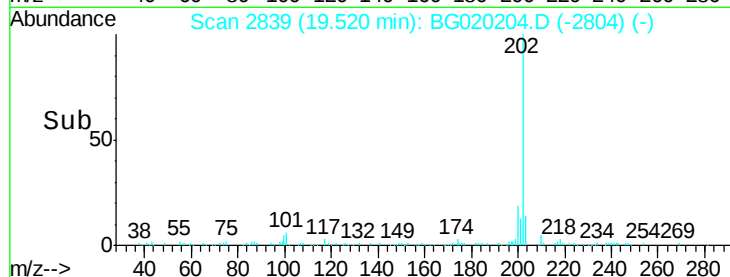
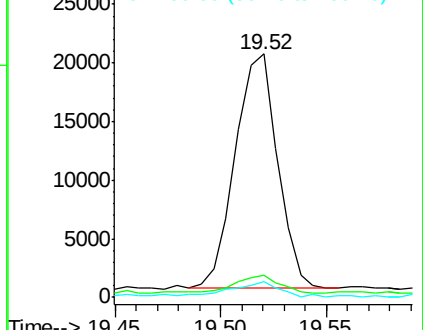
100 6.5 5.1 7.7



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

Pyrene

Concen: 3.65 ng/ul

RT: 19.88 min Scan# 2900

Delta R.T. 0.00 min

Lab File: BG020204.D

Acq: 16 Dec 2015 00:37

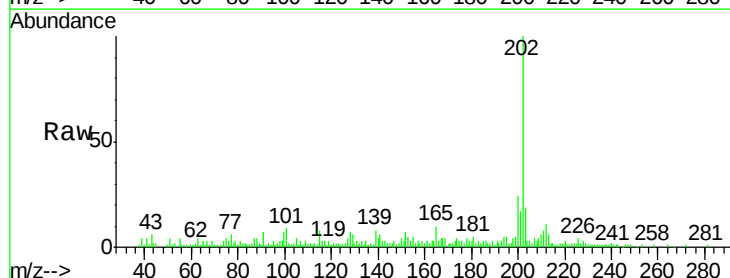
Tgt Ion:202 Resp: 43655

Ion Ratio Lower Upper

202 100

101 8.8 7.0 10.4

100 7.3 6.4 9.6



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

