

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121615\
 Data File : BG020203.D
 Acq On : 15 Dec 2015 23:58
 Operator : UM/SJ
 Sample : G4786-14
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9C87

Quant Time: Dec 16 03:48:34 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	25291	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	45908	20.00	ng/ul	0.03
36) Acenaphthene-d10	14.73	164	76704	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	174456	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	198827	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	190676	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	942	2.06	ng/uL	0.00
5) Phenol-d5	7.25	99	15205	6.82	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	41296	31.03	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	42221	26.03	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	30450	15.97	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	34132	95.38	ng/ul	0.00
22) 2-Nitrophenol-d4	10.00	143	34048	85.50	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.55	165	56890	70.53	ng/ul	0.02
29) 4-Chloroaniline-d4	11.06	131	9627	10.62	ng/ul	0.02
44) Dimethylphthalate-d6	14.13	166	196941	31.74	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	238398	33.02	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	8884	7.98	ng/ul	0.00
58) Fluorene-d10	15.72	176	176899	31.43	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	37326	36.09	ng/ul	0.00
71) Anthracene-d10	17.57	188	277357	34.50	ng/ul	0.00
79) Pyrene-d10	19.85	212	305417	32.96	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	334031	35.12	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.24	77	63243	43.80	ng/ul#	1
6) Phenol	7.28	94	50487	21.14	ng/ul	96
8) Bis(2-Chloroethyl)ether	7.48	93	1883	1.15	ng/ul#	1
11) 2-Methylphenol	8.54	108	29846	16.38	ng/ul	89
14) Acetophenone	8.92	105	40779	13.66	ng/ul	92
16) 4-Methylphenol	8.88	108	147491	73.14	ng/ul	90
17) Hexachloroethane	9.21	117	33550	46.99	ng/ul#	1
20) Nitrobenzene	9.36	77	1531	1.61	ng/ul#	23
24) 2,4-Dimethylphenol	10.09	107	49450	51.00	ng/ul	95
25) Bis(2-Chloroethoxy)methane	10.32	93	2974	3.03	ng/ul#	1
28) Naphthalene	11.07	128	10225333	4265.19	ng/ul#	32
30) 4-Chloroaniline	11.06	127	3190839	3449.84	ng/ul#	14
32) Caprolactam	11.86	113	412	1.41	ng/ul#	35
34) 2-Methylnaphthalene	12.58	142	1213916	662.90	ng/ul	100
35) 1-Methylnaphthalene	12.81	142	1586009	900.88	ng/ul#	93
41) 1,1'-Biphenyl	13.57	154	268531	46.40	ng/ul	97
43) 2-Nitroaniline	13.80	65	4048	2.57	ng/ul#	6
48) Acenaphthylene	14.45	152	46854	6.11	ng/ul#	78
50) Acenaphthene	14.79	153	257755	49.95	ng/ul	98
54) Dibenzofuran	15.12	168	45751	5.96	ng/ul	95
59) Fluorene	15.78	166	233867	37.94	ng/ul	100
61) 4-Nitroaniline	15.78	138	3537	2.57	ng/ul#	21
70) Phenanthrene	17.51	178	422468	44.27	ng/ul	100

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G9C87

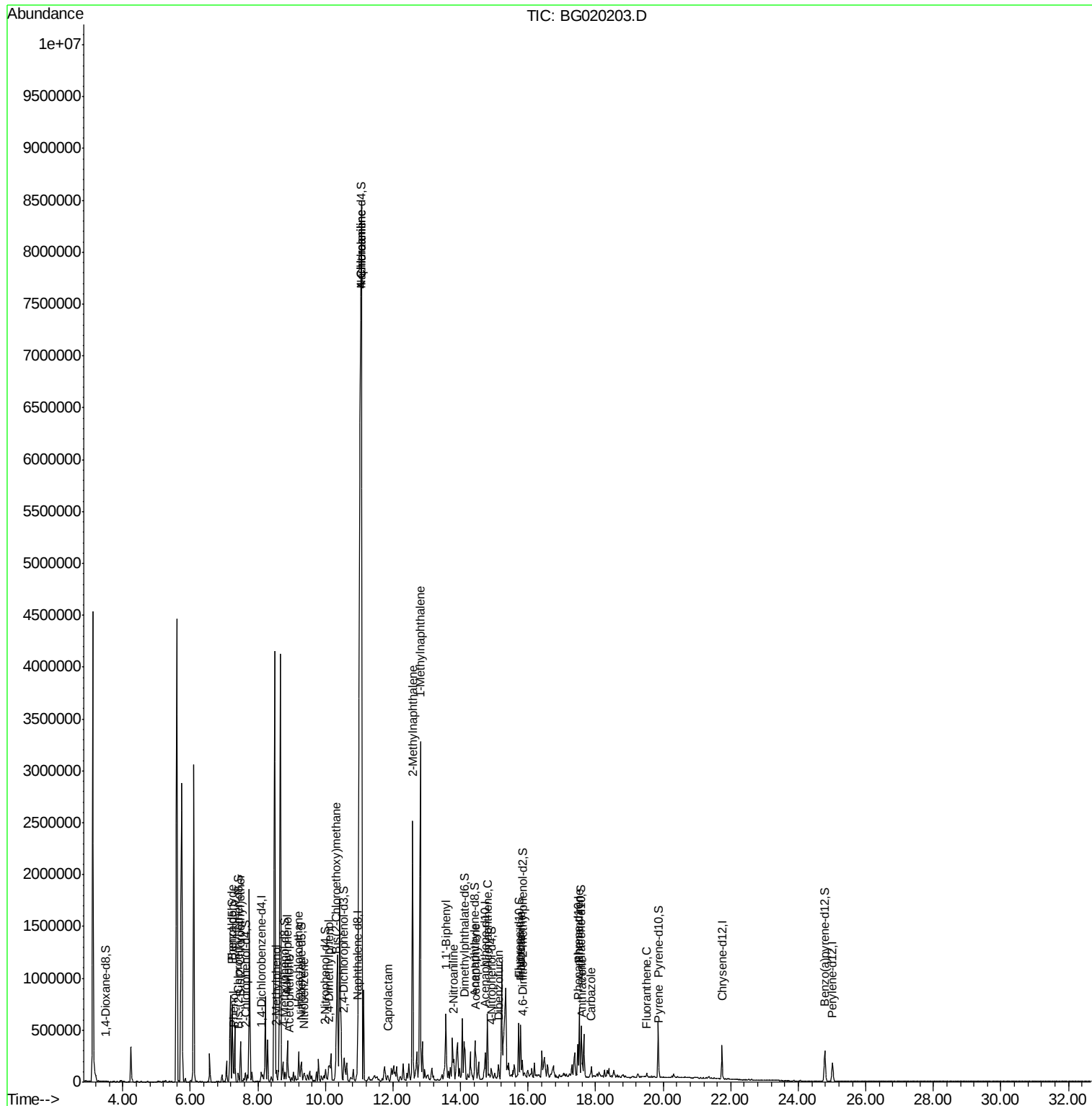
Quant Time: Dec 16 03:48:34 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 16 03:45:51 2015
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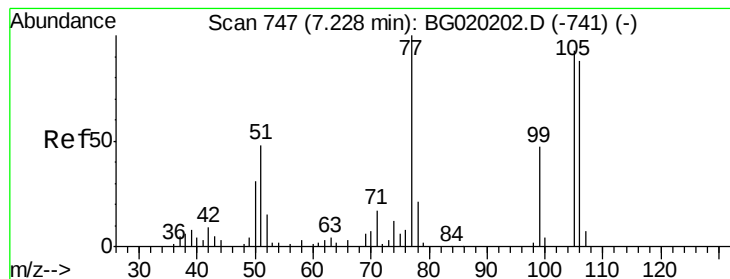
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) Anthracene	17.60	178	73208	7.56	ng/ul	99
75) Carbazole	17.87	167	74488	9.16	ng/ul	98
77) Fluoranthene	19.51	202	29798	2.67	ng/ul	97
80) Pyrene	19.88	202	37799	3.14	ng/ul	98

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

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#4

Benzaldehyde

Concen: 43.80 ng/ul

RT: 7.24 min Scan# 749

Delta R.T. 0.01 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampled :

G9C87

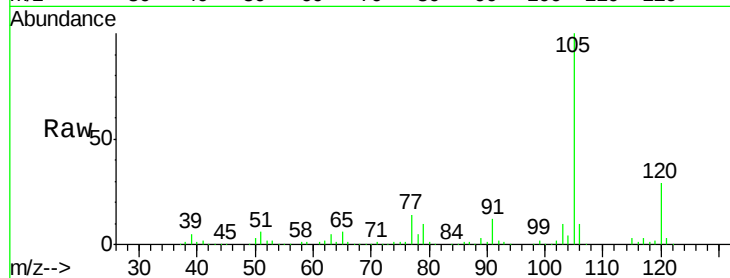
Tgt Ion: 77 Resp: 63243

Ion Ratio Lower Upper

77 100

105 713.0 77.8 116.6#

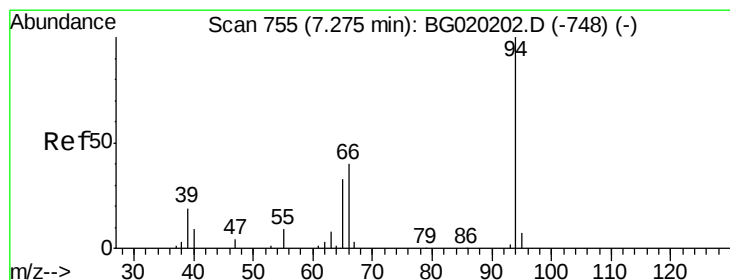
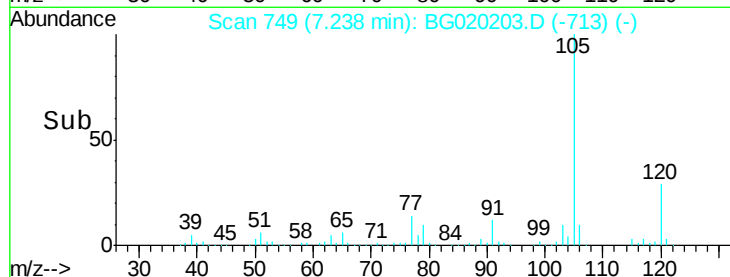
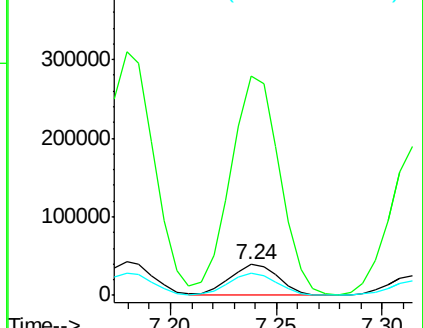
106 70.8 72.6 109.0#



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: 21.14 ng/ul

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

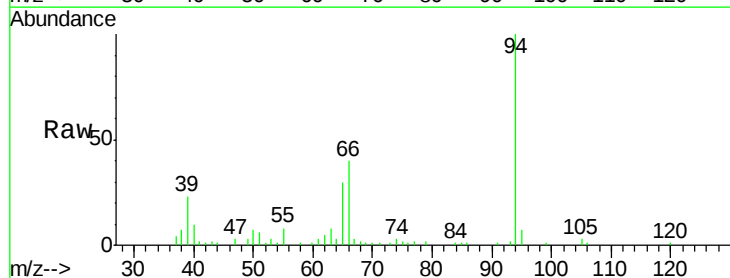
Tgt Ion: 94 Resp: 50487

Ion Ratio Lower Upper

94 100

65 29.8 26.3 39.5

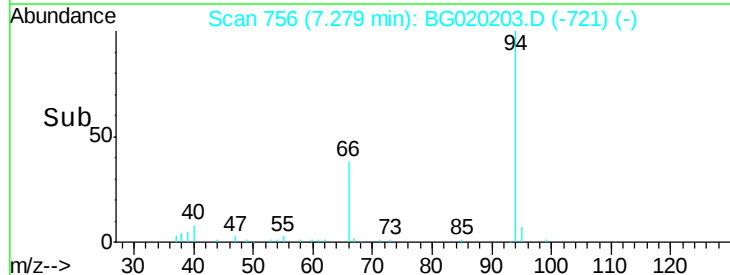
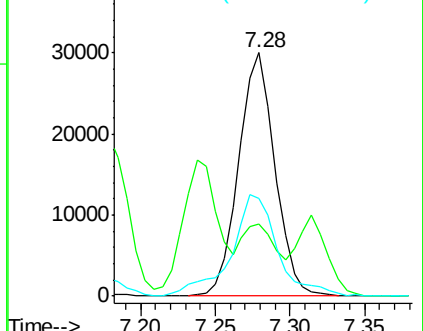
66 40.0 33.3 49.9

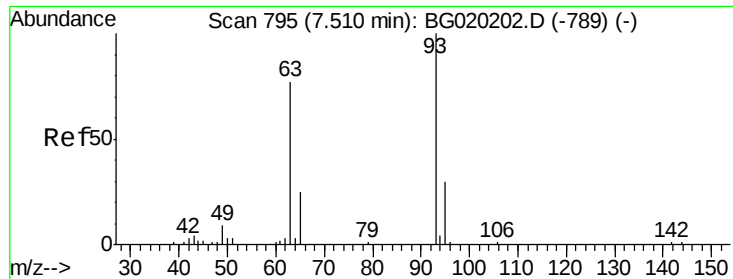


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#8

Bis(2-Chloroethyl)ether

Concen: 1.15 ng/ul

RT: 7.48 min Scan# 791

Delta R.T. -0.03 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

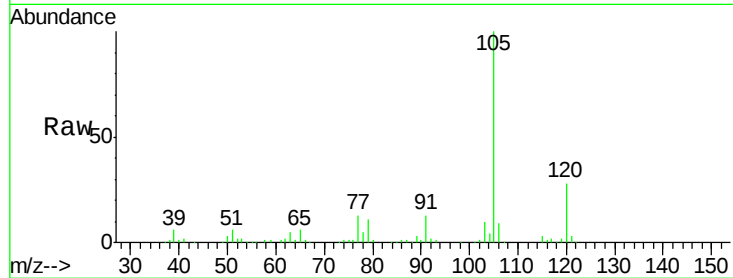
Tgt Ion: 93 Resp: 1883

Ion Ratio Lower Upper

93 100

63 865.3 63.6 95.4#

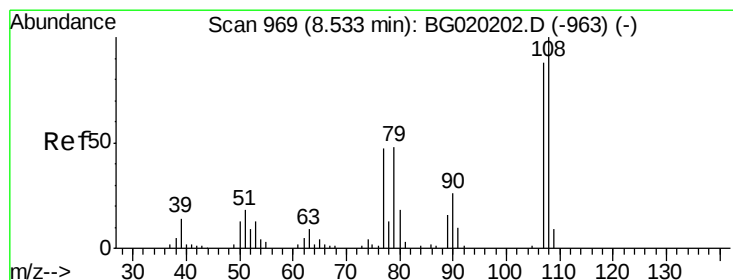
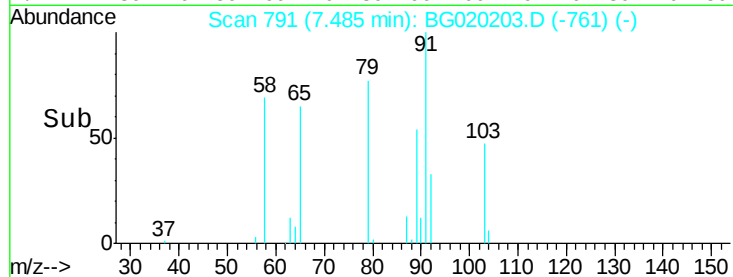
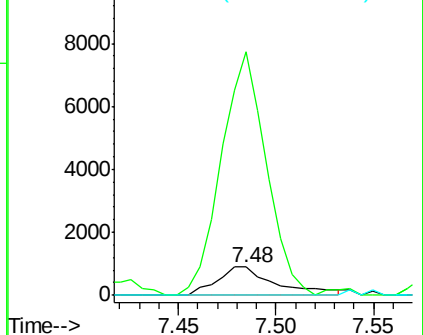
95 0.0 23.7 35.5#



Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 95.00 (94.70 to 95.70): BGC



#11

2-Methylphenol

Concen: 16.38 ng/ul

RT: 8.54 min Scan# 971

Delta R.T. 0.01 min

Lab File: BG020203.D

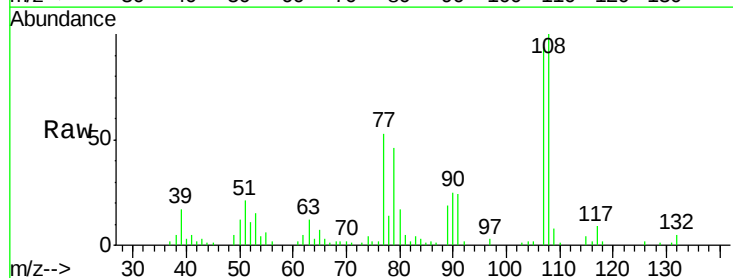
Acq: 15 Dec 2015 23:58

Tgt Ion: 108 Resp: 29846

Ion Ratio Lower Upper

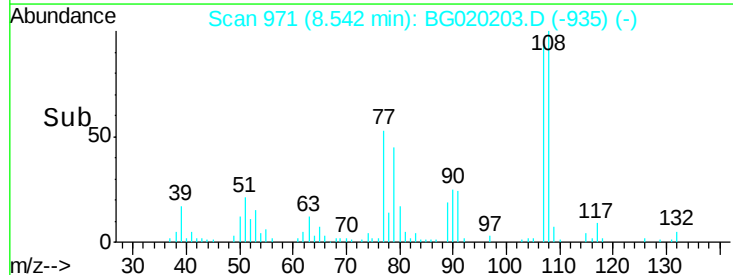
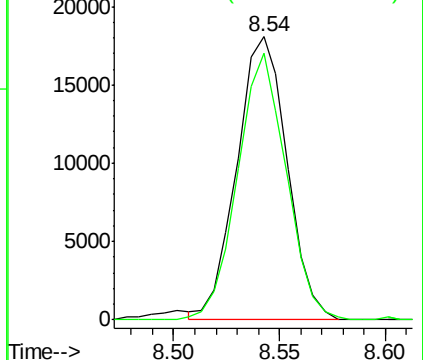
108 100

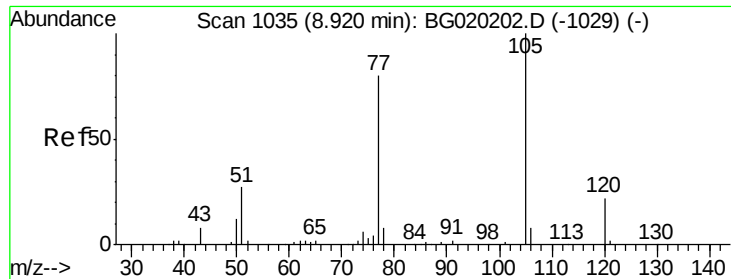
107 94.1 67.5 101.3



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

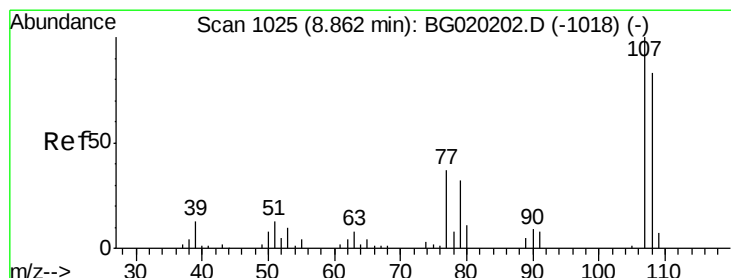
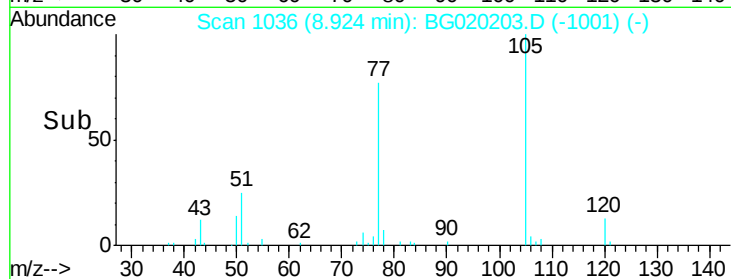
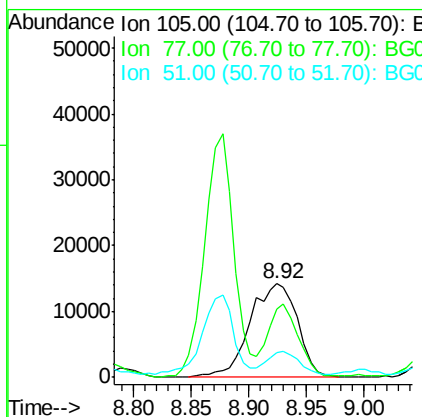
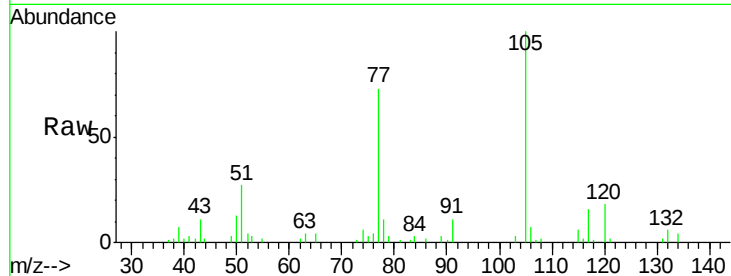




#14
 Acetophenone
 Concen: 13.66 ng/ul
 RT: 8.92 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

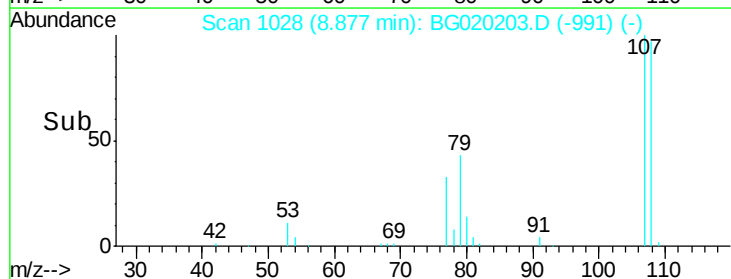
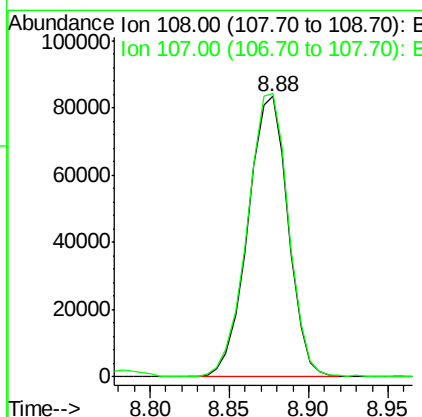
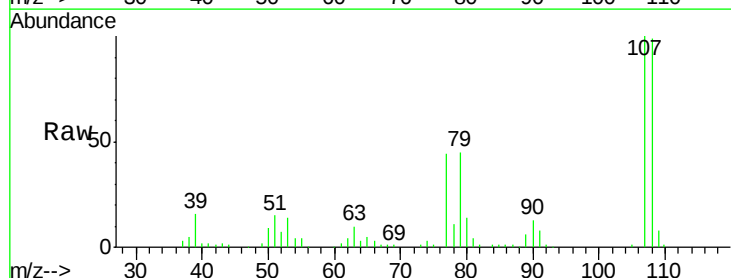
Instrument :
 BNA_G
 ClientSampled :
 G9C87

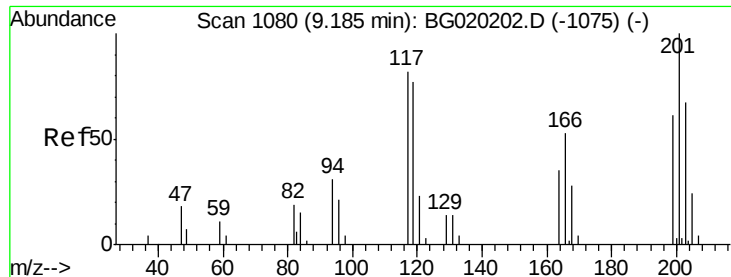
Tgt Ion:	105	Resp:	40779
Ion	Ratio	Lower	Upper
105	100		
77	72.6	65.2	97.8
51	27.1	22.6	33.8



#16
 4-Methylphenol
 Concen: 73.14 ng/ul
 RT: 8.88 min Scan# 1028
 Delta R.T. 0.02 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

Tgt Ion:	108	Resp:	147491
Ion	Ratio	Lower	Upper
108	100		
107	101.0	88.9	133.3

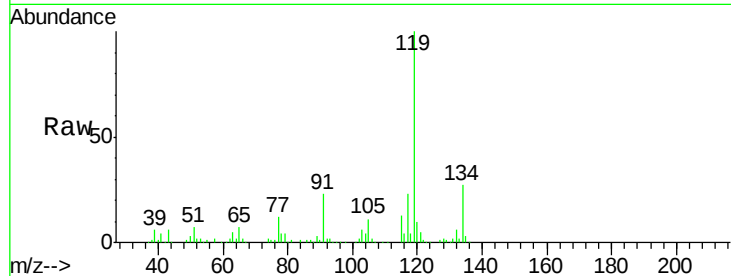




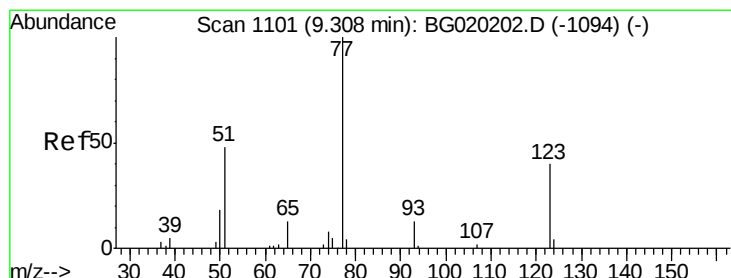
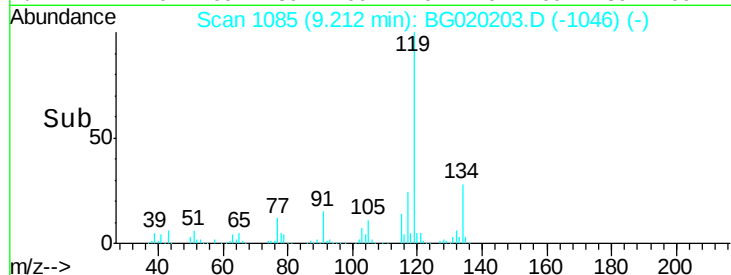
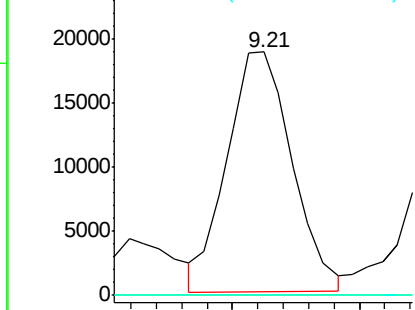
#17
Hexachloroethane
Concen: 46.99 ng/ul
RT: 9.21 min Scan# 1085
Delta R.T. 0.03 min
Lab File: BG020203.D
Acq: 15 Dec 2015 23:58

Instrument :
BNA_G
ClientSampleId :
G9C87

Tgt Ion:117 Resp: 33550
Ion Ratio Lower Upper
117 100
201 0.0 102.7 154.1#
199 0.0 65.8 98.8#

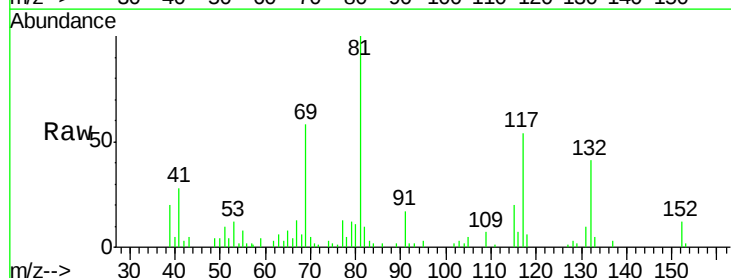


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

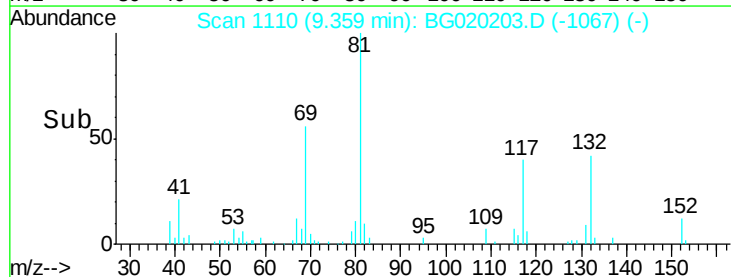
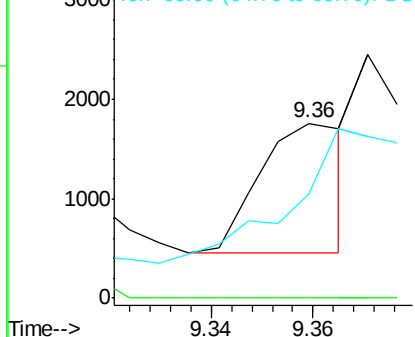


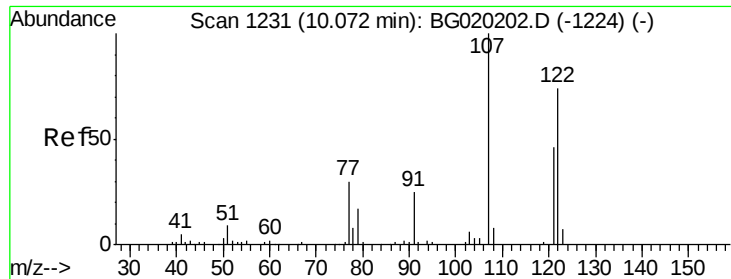
#20
Nitrobenzene
Concen: 1.61 ng/ul
RT: 9.36 min Scan# 1110
Delta R.T. 0.05 min
Lab File: BG020203.D
Acq: 15 Dec 2015 23:58

Tgt Ion: 77 Resp: 1531
Ion Ratio Lower Upper
77 100
123 0.0 33.4 50.0#
65 59.6 11.7 17.5#



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

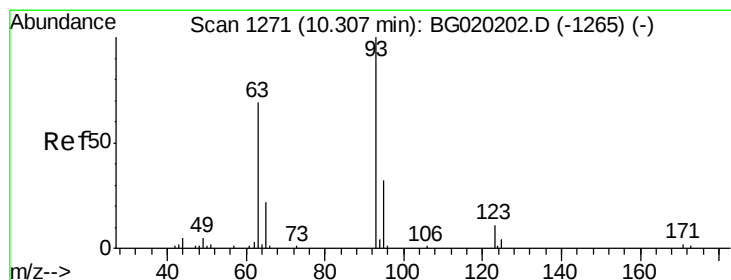
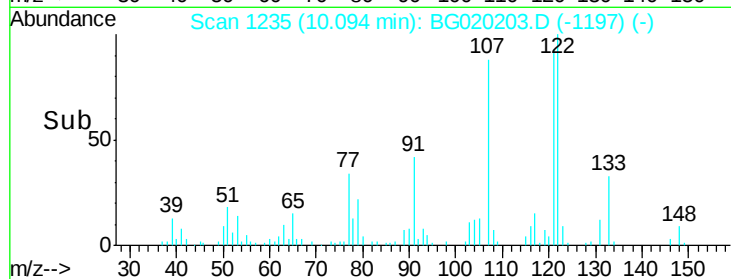
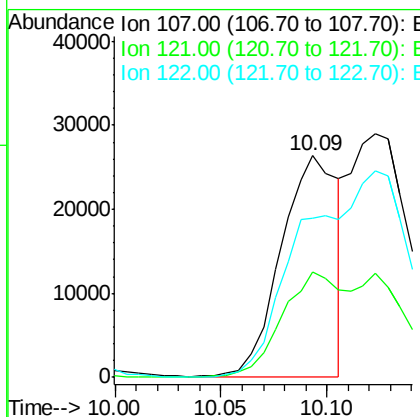
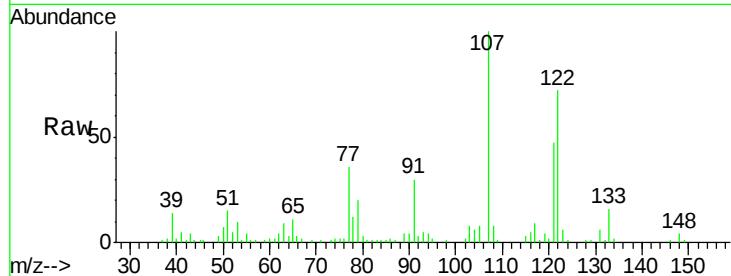




#24
 2,4-Dimethylphenol
 Concen: 51.00 ng/ul
 RT: 10.09 min Scan# 1235
 Delta R.T. 0.02 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

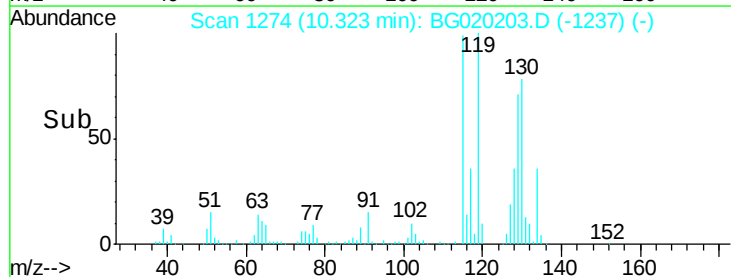
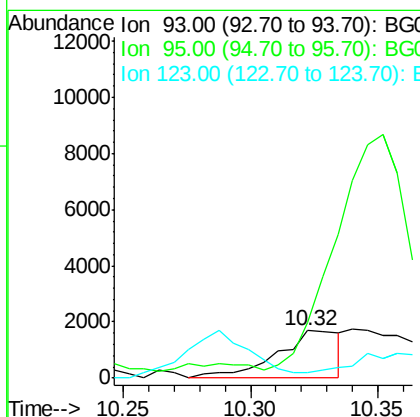
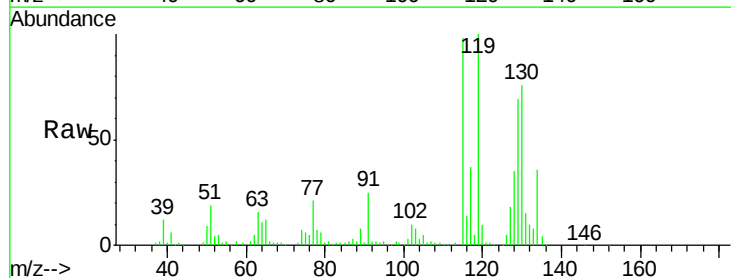
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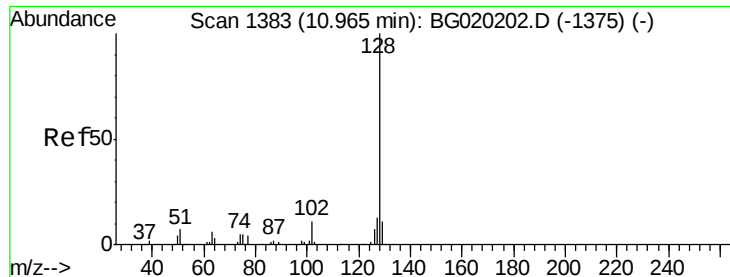
Tgt Ion: 107 Resp: 49450
 Ion Ratio Lower Upper
 107 100
 121 47.4 39.0 58.4
 122 71.6 62.1 93.1



#25
 Bis(2-Chloroethoxy)methane
 Concen: 3.03 ng/ul
 RT: 10.32 min Scan# 1274
 Delta R.T. 0.02 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

Tgt Ion: 93 Resp: 2974
 Ion Ratio Lower Upper
 93 100
 95 117.7 27.4 41.2#
 123 12.3 9.4 14.0





#28

Naphthalene

Concen: 4265.19 ng/ul

RT: 11.07 min Scan# 1401

Delta R.T. 0.10 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

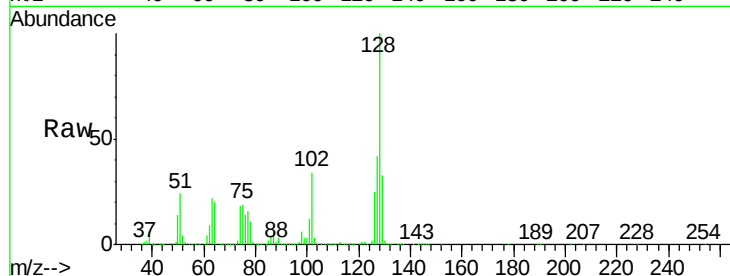
Tgt Ion:128 Resp:10225333

Ion Ratio Lower Upper

128 100

129 33.3 8.6 12.8#

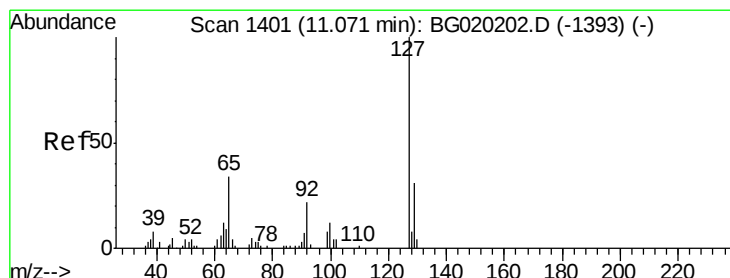
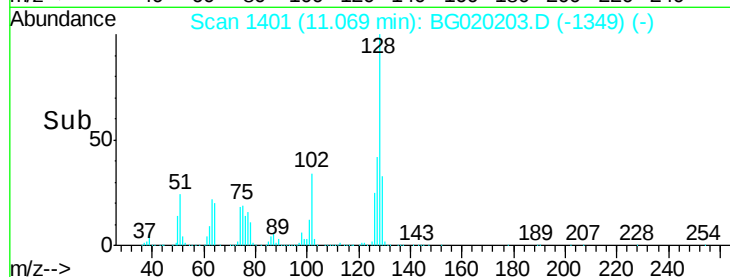
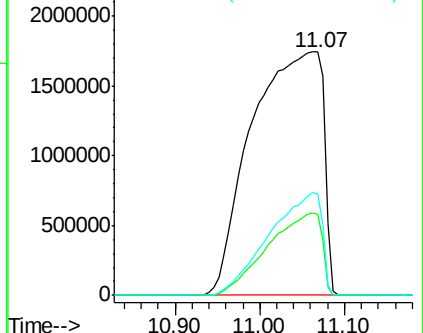
127 41.9 10.1 15.1#



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



#30

4-Chloroaniline

Concen: 3449.84 ng/ul

RT: 11.06 min Scan# 1400

Delta R.T. -0.01 min

Lab File: BG020203.D

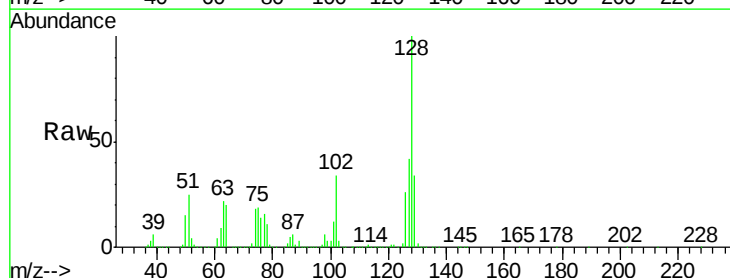
Acq: 15 Dec 2015 23:58

Tgt Ion:127 Resp: 3190839

Ion Ratio Lower Upper

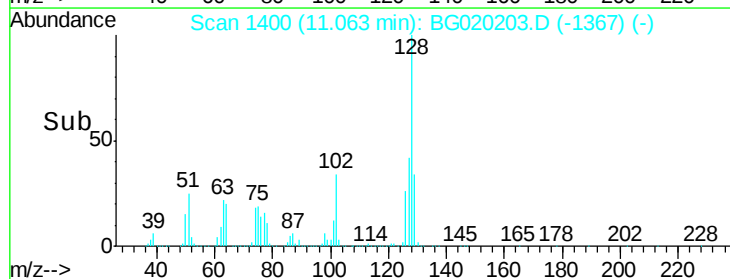
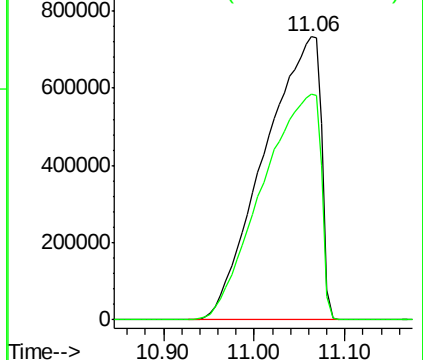
127 100

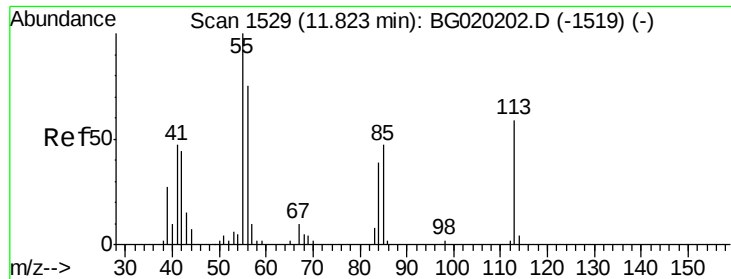
129 79.9 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#32

Caprolactam

Concen: 1.41 ng/ul

RT: 11.86 min Scan# 1535

Delta R.T. 0.03 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

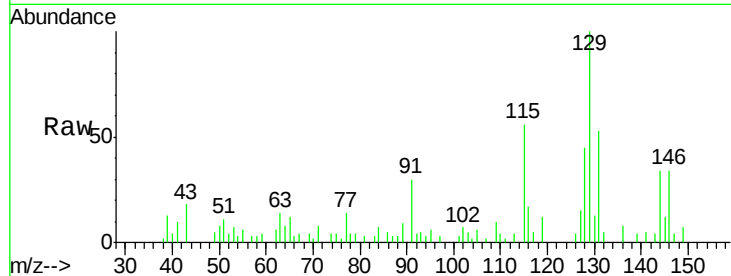
Tgt Ion:113 Resp: 412

Ion Ratio Lower Upper

113 100

55 126.9 132.1 198.1#

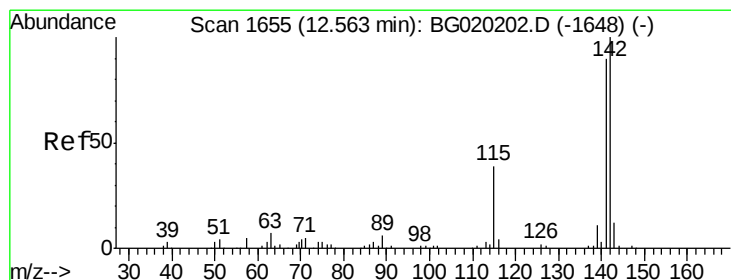
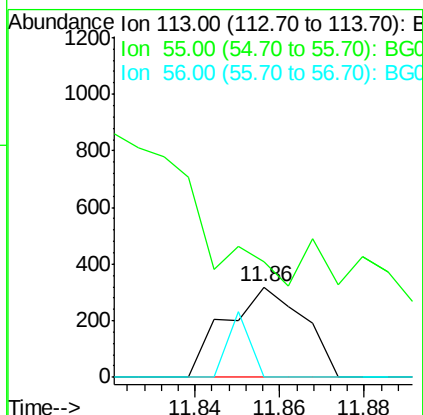
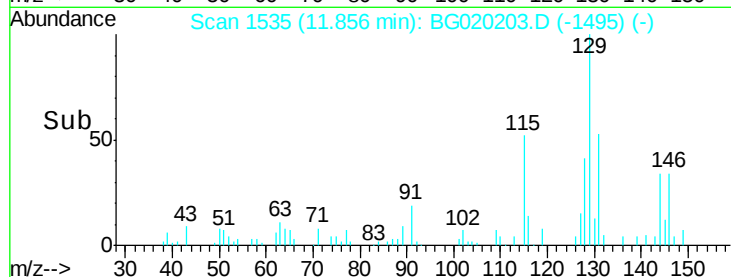
56 0.0 103.3 154.9#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#34

2-Methylnaphthalene

Concen: 662.90 ng/ul

RT: 12.58 min Scan# 1658

Delta R.T. 0.02 min

Lab File: BG020203.D

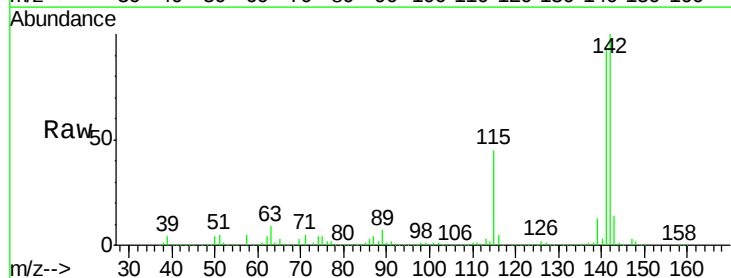
Acq: 15 Dec 2015 23:58

Tgt Ion:142 Resp: 1213916

Ion Ratio Lower Upper

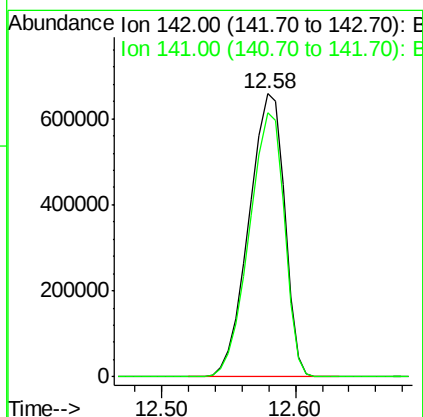
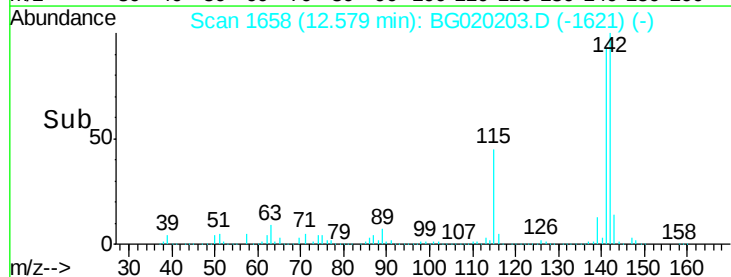
142 100

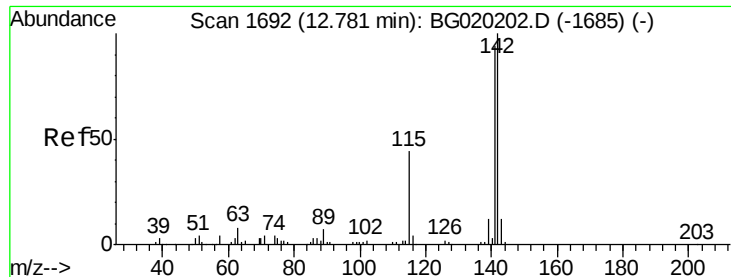
141 93.3 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

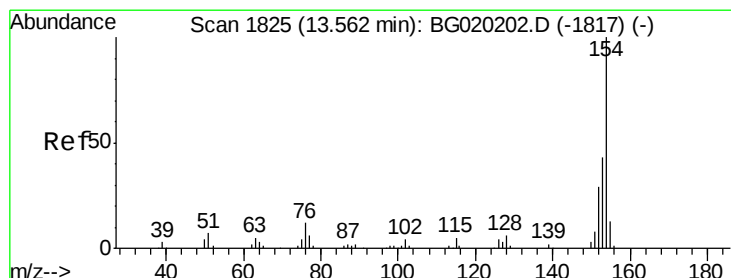
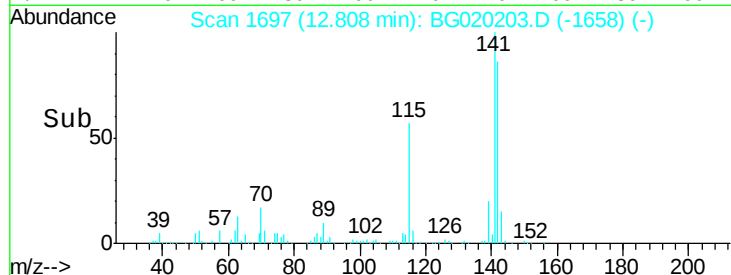
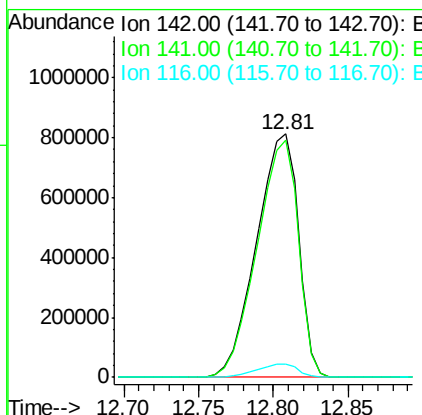
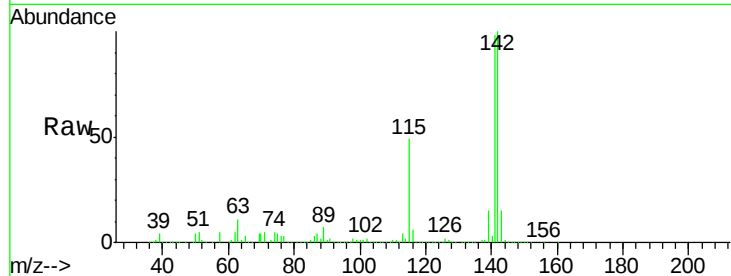




#35
 1-Methylnaphthalene
 Concen: 900.88 ng/ul
 RT: 12.81 min Scan# 1697
 Delta R.T. 0.03 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

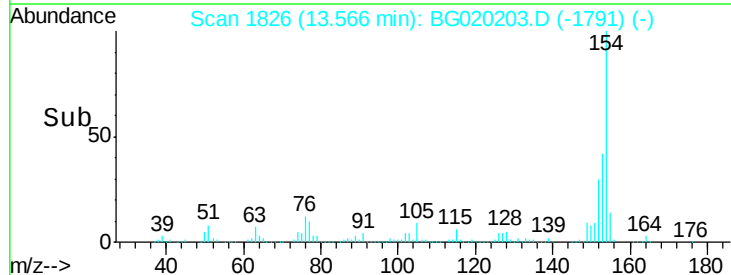
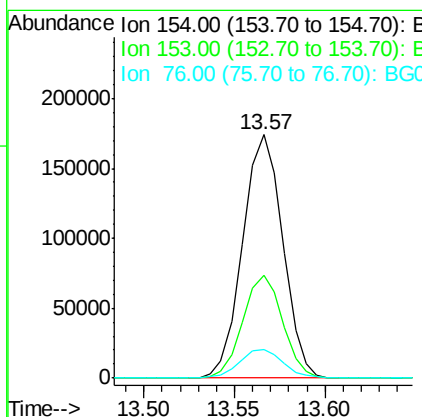
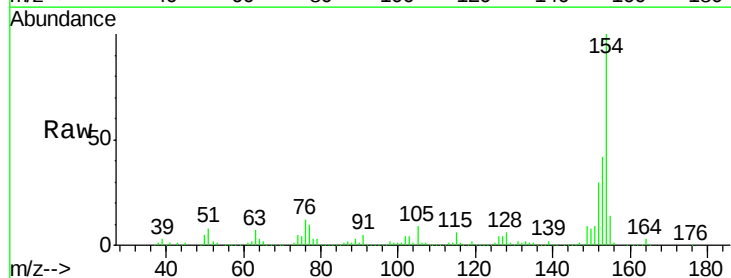
Instrument :
 BNA_G
 ClientSampleId :
 G9C87

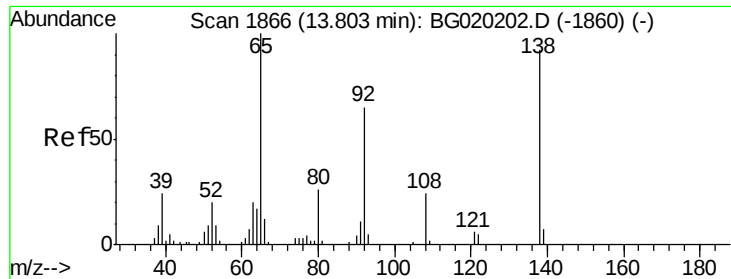
Tgt Ion:142 Resp: 1586009
 Ion Ratio Lower Upper
 142 100
 141 97.7 73.0 109.6
 116 5.5 3.0 4.6#



#41
 1,1'-Biphenyl
 Concen: 46.40 ng/ul
 RT: 13.57 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: BG020203.D
 Acq: 15 Dec 2015 23:58

Tgt Ion:154 Resp: 268531
 Ion Ratio Lower Upper
 154 100
 153 42.2 35.5 53.3
 76 11.9 10.4 15.6

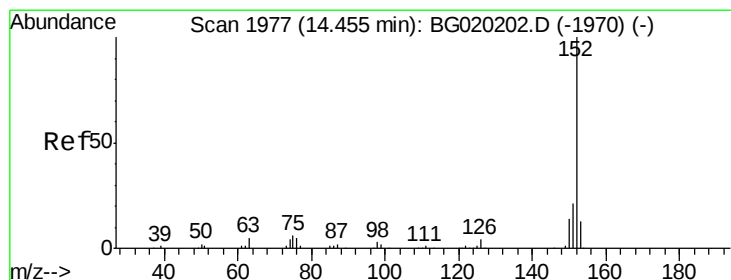
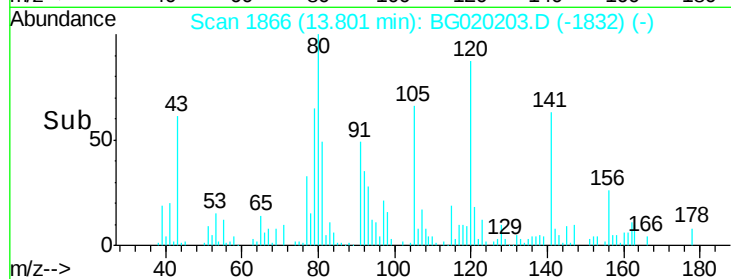
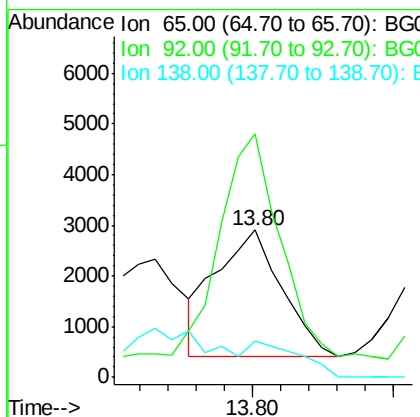
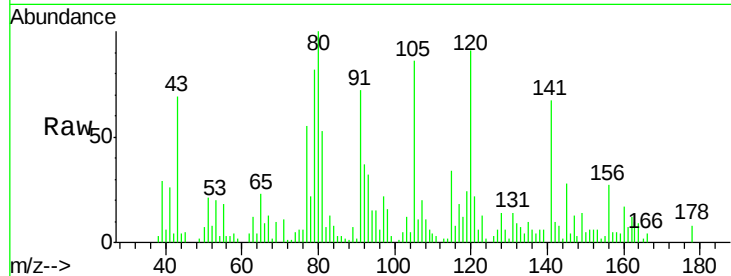




#43
2-Nitroaniline
Concen: 2.57 ng/ul
RT: 13.80 min Scan# 1866
Delta R.T. -0.00 min
Lab File: BG020203.D
Acq: 15 Dec 2015 23:58

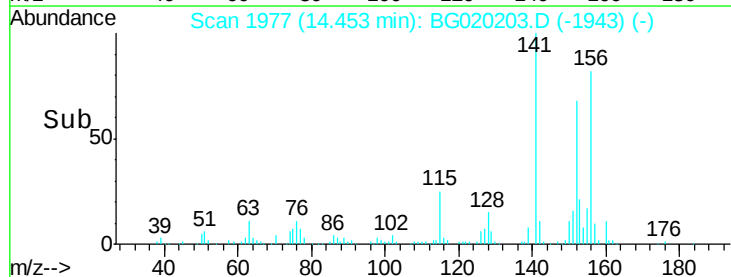
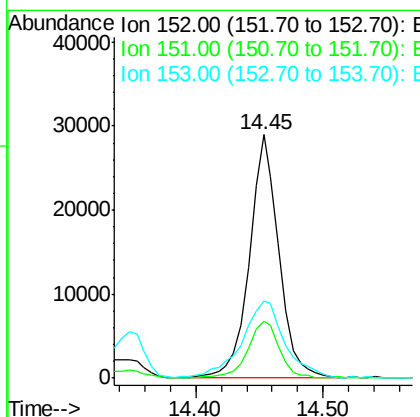
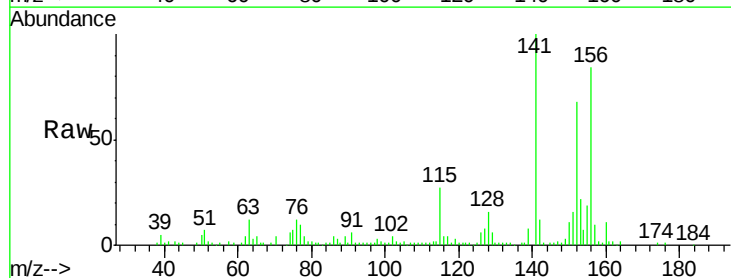
Instrument :
BNA_G
ClientSampleId :
G9C87

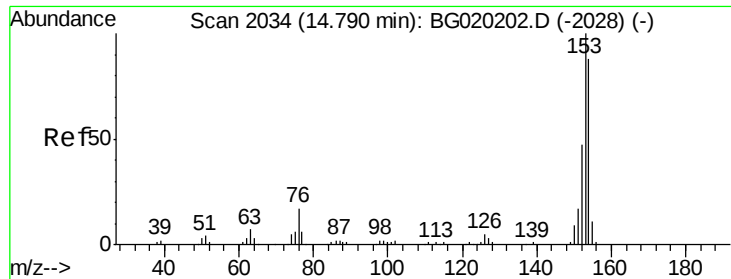
Tgt Ion: 65 Resp: 4048
Ion Ratio Lower Upper
65 100
92 165.3 53.1 79.7#
138 24.9 76.6 114.8#



#48
Acenaphthylene
Concen: 6.11 ng/ul
RT: 14.45 min Scan# 1977
Delta R.T. -0.00 min
Lab File: BG020203.D
Acq: 15 Dec 2015 23:58

Tgt Ion: 152 Resp: 46854
Ion Ratio Lower Upper
152 100
151 23.4 16.4 24.6
153 31.6 10.4 15.6#





#50

Acenaphthene

Concen: 49.95 ng/ul

RT: 14.79 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

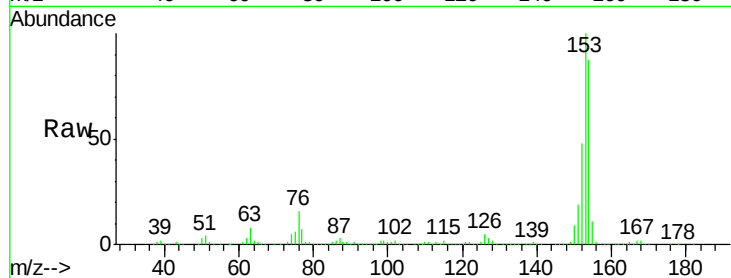
Tgt Ion:153 Resp: 257755

Ion Ratio Lower Upper

153 100

152 48.2 37.6 56.4

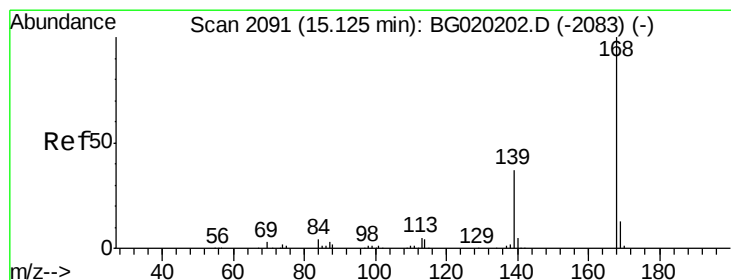
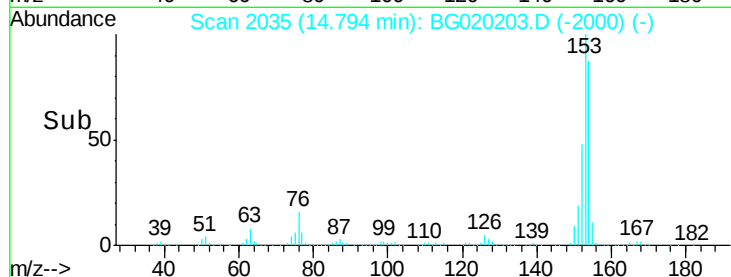
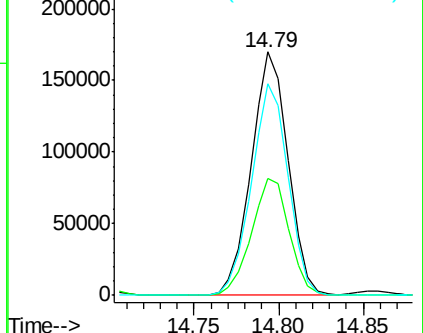
154 86.8 67.9 101.9



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: 5.96 ng/ul

RT: 15.12 min Scan# 2091

Delta R.T. -0.00 min

Lab File: BG020203.D

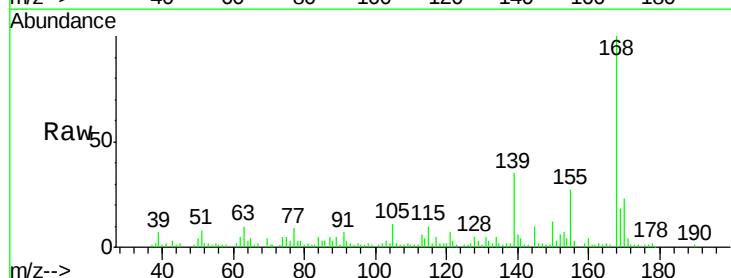
Acq: 15 Dec 2015 23:58

Tgt Ion:168 Resp: 45751

Ion Ratio Lower Upper

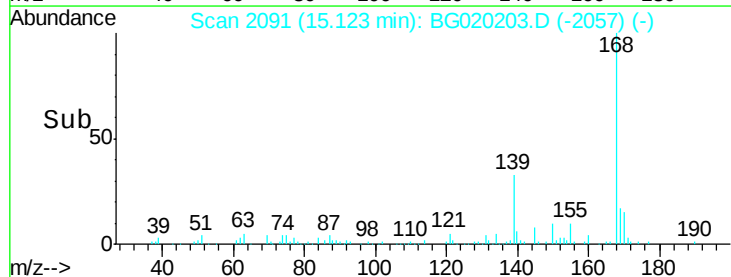
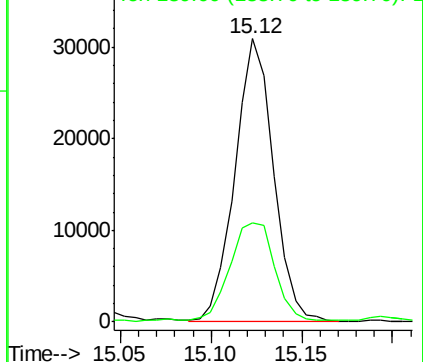
168 100

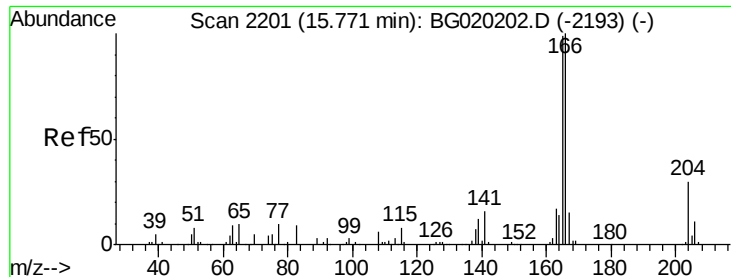
139 35.2 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 37.94 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

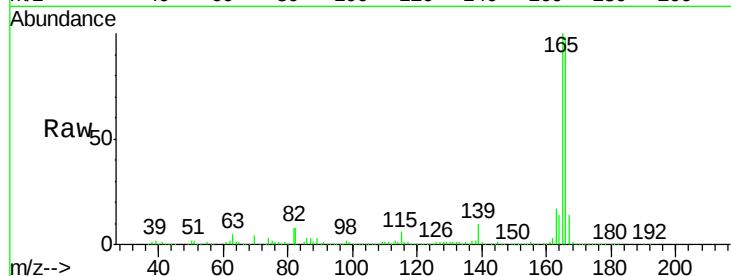
Tgt Ion:166 Resp: 233867

Ion Ratio Lower Upper

166 100

165 101.7 81.4 122.0

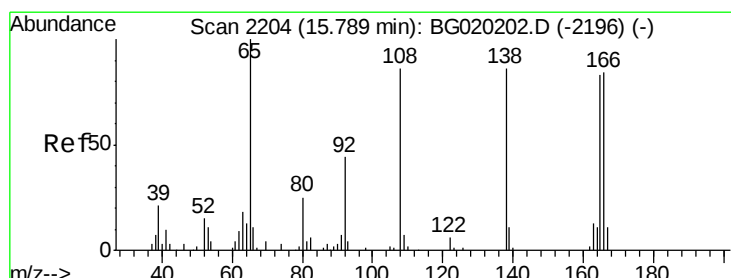
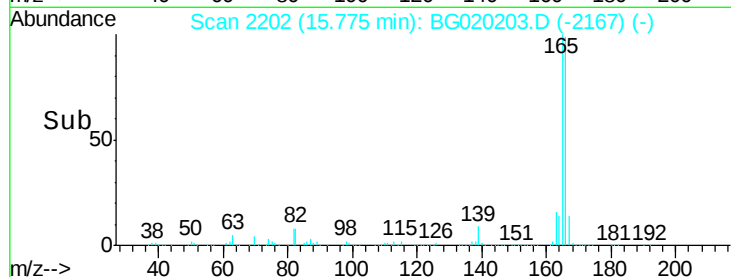
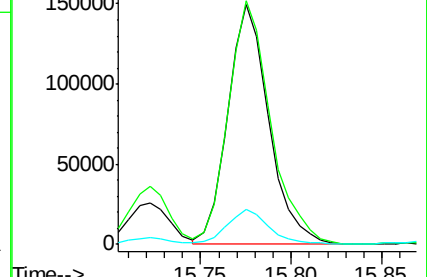
167 14.7 11.2 16.8



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: 2.57 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

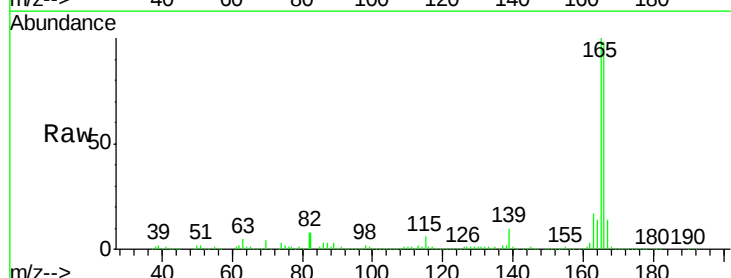
Tgt Ion:138 Resp: 3537

Ion Ratio Lower Upper

138 100

92 10.0 45.2 67.8#

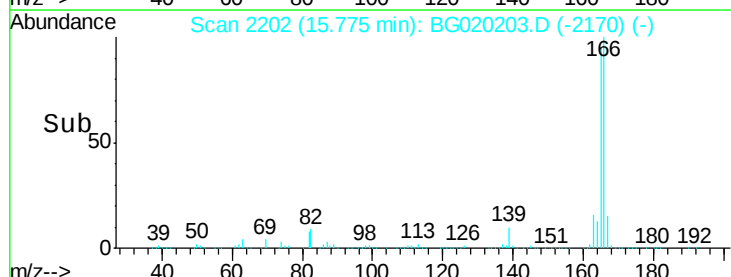
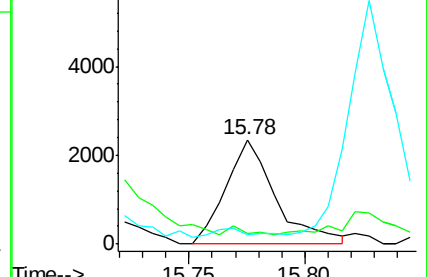
108 9.4 75.4 113.0#

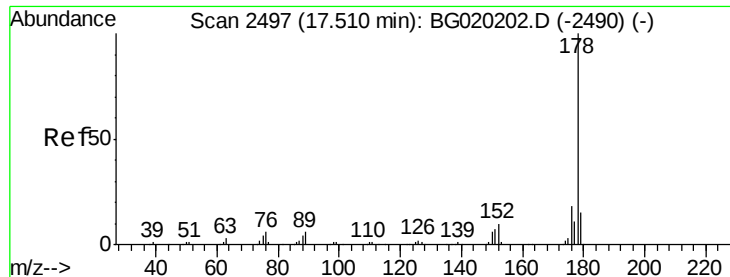


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E





#70

Phenanthrene

Concen: 44.27 ng/ul

RT: 17.51 min Scan# 2498

Delta R.T. 0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

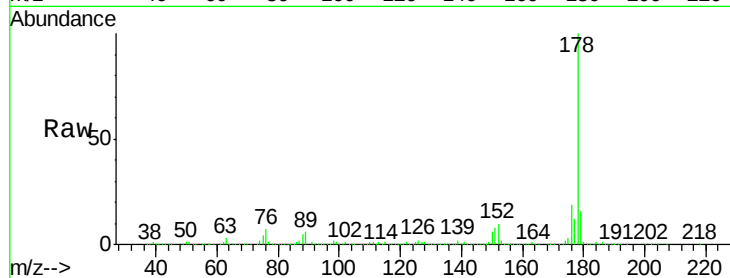
Tgt Ion:178 Resp: 422468

Ion Ratio Lower Upper

178 100

179 16.3 12.9 19.3

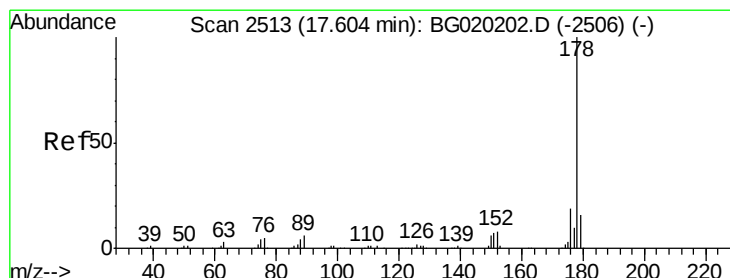
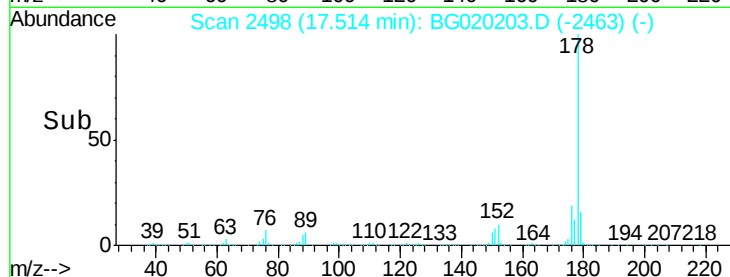
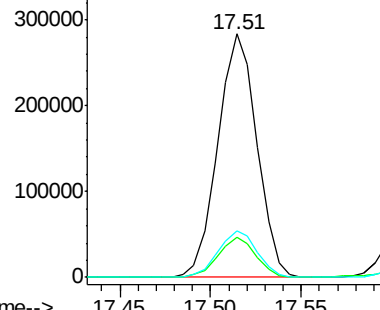
176 19.3 15.3 22.9



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

Anthracene

Concen: 7.56 ng/ul

RT: 17.60 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

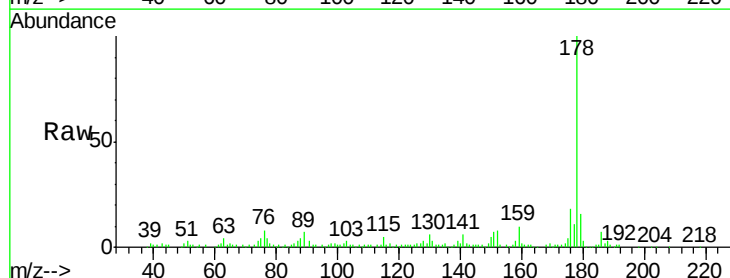
Tgt Ion:178 Resp: 73208

Ion Ratio Lower Upper

178 100

179 16.5 12.3 18.5

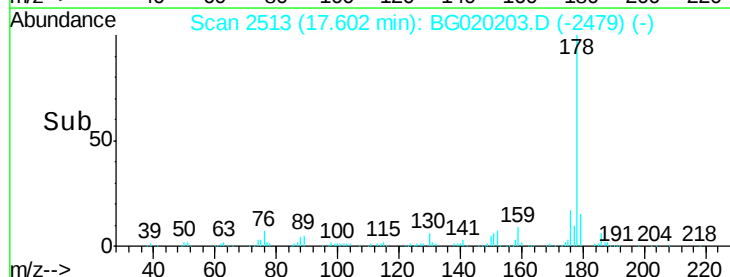
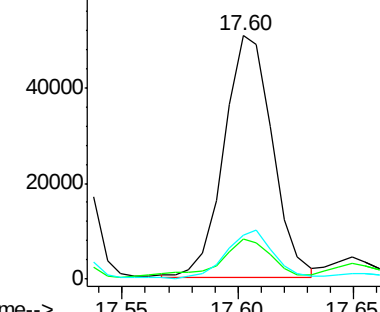
176 18.0 14.3 21.5

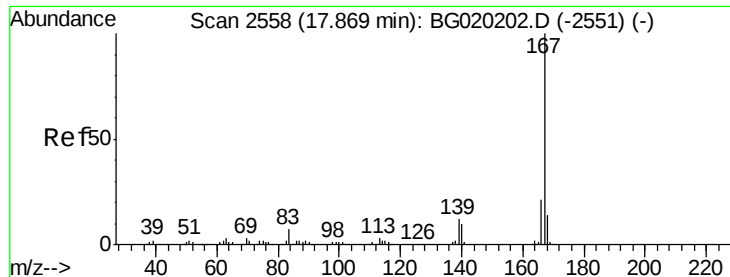


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 9.16 ng/ul

RT: 17.87 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

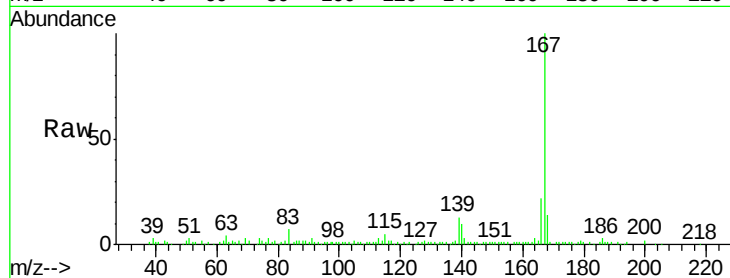
Tgt Ion:167 Resp: 74488

Ion Ratio Lower Upper

167 100

166 22.2 17.0 25.6

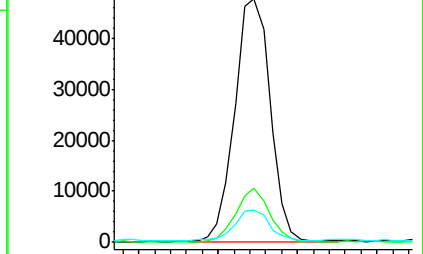
139 13.4 10.1 15.1



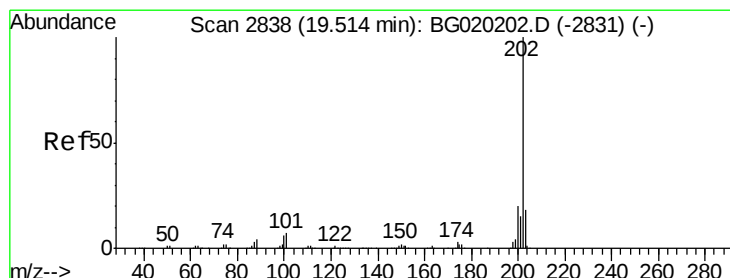
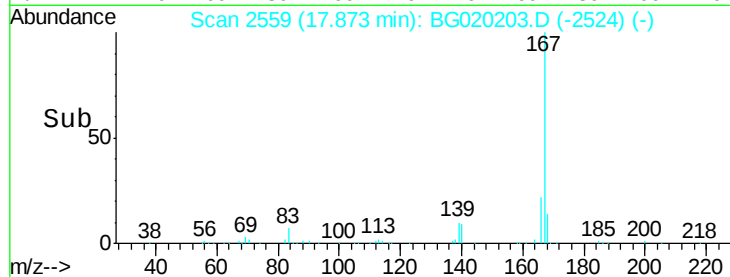
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->



#77

Fluoranthene

Concen: 2.67 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. -0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

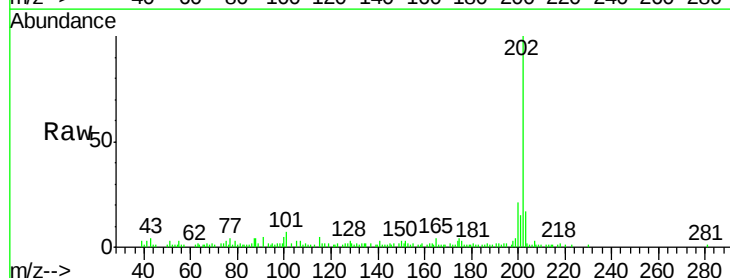
Tgt Ion:202 Resp: 29798

Ion Ratio Lower Upper

202 100

101 7.1 6.2 9.4

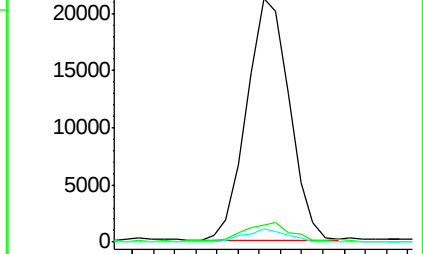
100 5.3 5.1 7.7



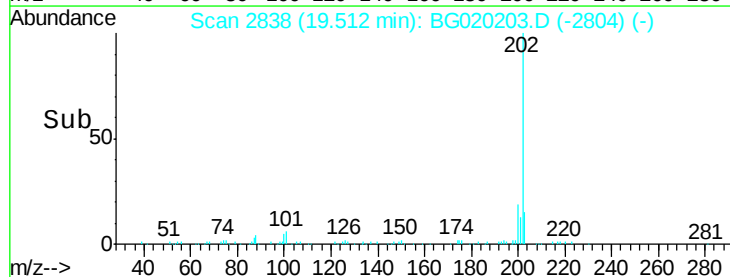
Abundance Ion 202.00 (201.70 to 202.70): E

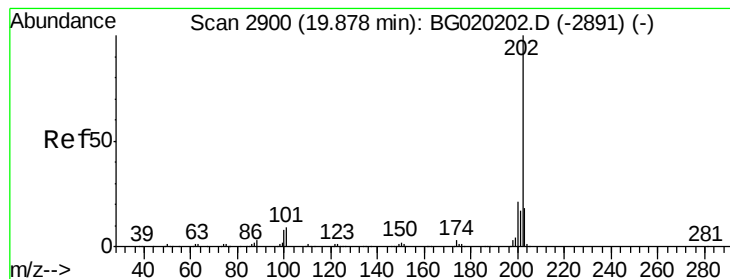
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



Time-->





#80

Pyrene

Concen: 3.14 ng/ul

RT: 19.88 min Scan# 2900

Delta R.T. -0.00 min

Lab File: BG020203.D

Acq: 15 Dec 2015 23:58

Instrument :

BNA_G

ClientSampleId :

G9C87

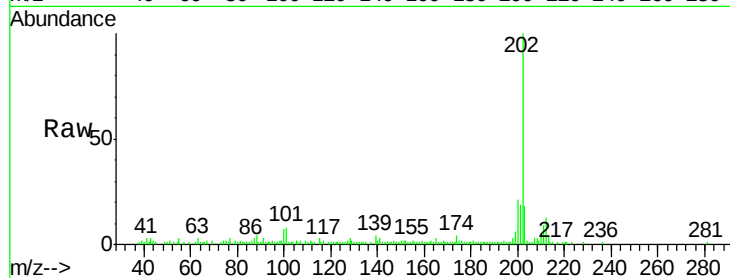
Tgt Ion:202 Resp: 37799

Ion Ratio Lower Upper

202 100

101 8.3 7.0 10.4

100 7.0 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

