

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121616\
 Data File : BG025265.D
 Acq On : 17 Dec 2016 8:26
 Operator : UM/SJ
 Sample : H5995-15DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA883DL

Quant Time: Dec 18 00:42:49 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sun Dec 18 00:39:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	71562	20.00	ng/ul	0.00
18) Naphthalene-d8	11.06	136	269305	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	210059	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	435137	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	572226	20.00	ng/ul	0.00
83) Perylene-d12	25.33	264	600657	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.58	96	1751	1.26	ng/uL	0.00
5) Phenol-d5	7.40	99	17478	2.83	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.55	67	12436	3.26	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	12252	2.84	ng/ul	0.00
13) 4-Methylphenol-d8	8.95	113	14329	2.78	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	7947	4.17	ng/ul	0.00
22) 2-Nitrophenol-d4	10.15	143	7259	3.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.69	165	14627	3.20	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	16129	3.59	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	48546	3.36	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	64012	4.04	ng/ul	0.00
51) 4-Nitrophenol-d4	15.11	143	10653	4.29	ng/ul	0.03
57) Fluorene-d10	15.85	176	100578	7.40	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.99	200	9874	3.67	ng/ul	0.00
70) Anthracene-d10	17.71	188	71833	3.91	ng/ul	0.00
76) Pyrene-d10	19.98	212	89752	3.81	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.09	264	83421	3.43	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.36	77	5948	1.28	ng/ul#	1
6) Phenol	7.43	94	51721	8.16	ng/ul	98
11) 2-Methylphenol	8.68	108	62257	13.34	ng/ul	85
16) 4-Methylphenol	9.02	108	164846	31.76	ng/ul	92
17) Hexachloroethane	9.34	117	18260	9.50	ng/ul#	1
21) Isophorone	9.96	82	12416	1.12	ng/ul#	1
24) 2,4-Dimethylphenol	10.22	107	282120	51.15	ng/ul	97
25) Bis(2-Chloroethoxy)methane	10.49	93	16711	2.96	ng/ul#	1
28) Naphthalene	11.12	128	260434	20.80	ng/ul	99
32) Caprolactam	12.02	113	23697	12.85	ng/ul#	1
34) 2-Methylnaphthalene	12.70	142	571138	57.81	ng/ul	94
40) 1,1'-Biphenyl	13.69	154	97579	7.66	ng/ul#	94
41) 2-Chloronaphthalene	13.78	162	11237	1.11	ng/ul#	66
45) 2,6-Dinitrotoluene	14.44	165	3763	1.23	ng/ul#	9
47) Acenaphthylene	14.58	152	26277	1.71	ng/ul#	1
49) Acenaphthene	14.93	153	73058	6.93	ng/ul#	77
53) Dibenzofuran	15.26	168	126465	7.59	ng/ul	90
54) 2,4-Dinitrotoluene	15.24	165	22597	4.91	ng/ul#	29
58) Fluorene	15.90	166	204329	15.05	ng/ul#	98
64) N-Nitrosodiphenylamine	16.10	169	122856	10.97	ng/ul#	35
67) Atrazine	17.03	200	7915	1.49	ng/ul#	1
69) Phenanthrene	17.65	178	438150	21.10	ng/ul	95
71) Anthracene	17.74	178	53260	2.49	ng/ul#	65

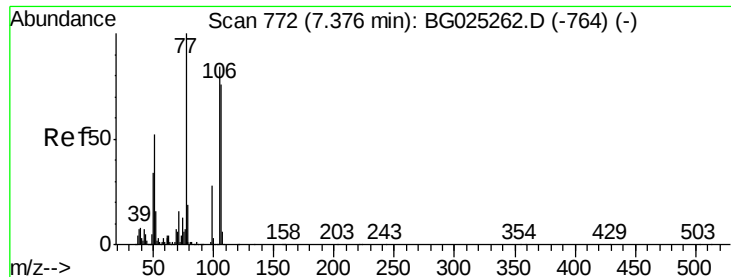
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121616\
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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) Carbazole	18.02	167	29690	1.67	ng/ul#	39
74) Fluoranthene	19.64	202	66291	2.69	ng/ul#	90
77) Pyrene	20.01	202	105629	3.84	ng/ul#	90
82) Chrysene	21.95	228	30503	1.10	ng/ul#	55

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



#4

Benzaldehyde

Concen: 1.28 ng/ul

RT: 7.36 min Scan# 769

Delta R.T. -0.02 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampleId :

DA883DL

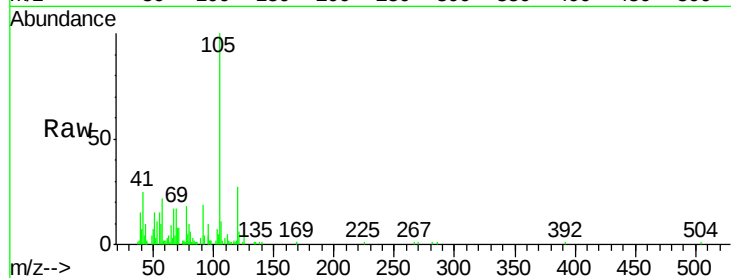
Tgt Ion: 77 Resp: 5948

Ion Ratio Lower Upper

77 100

105 555.4 62.0 93.0#

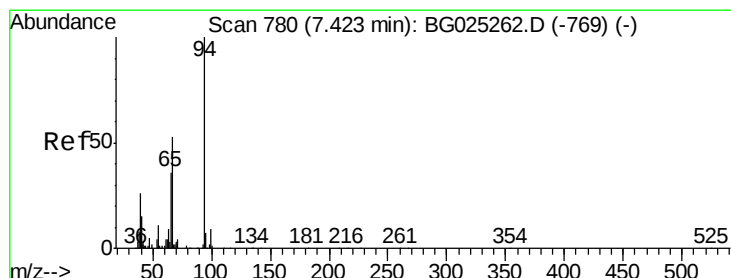
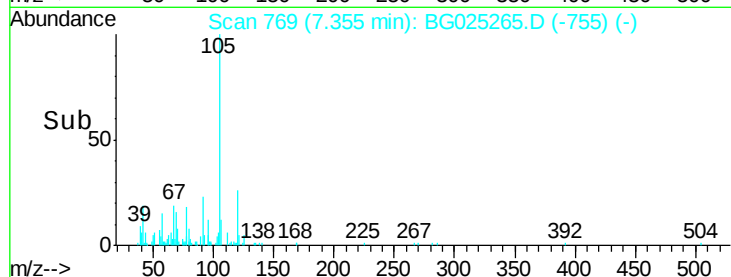
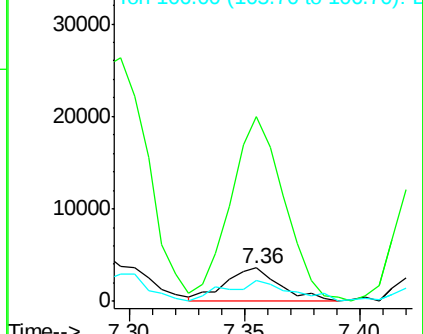
106 62.1 60.2 90.4



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: 8.16 ng/ul

RT: 7.43 min Scan# 781

Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

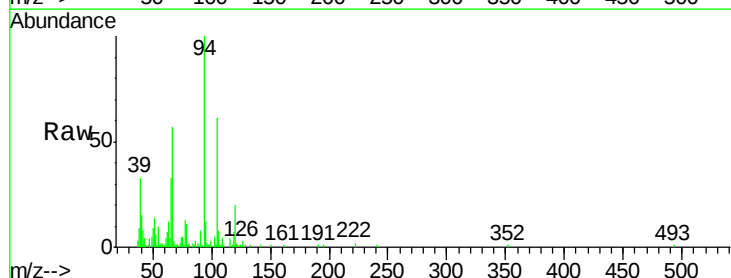
Tgt Ion: 94 Resp: 51721

Ion Ratio Lower Upper

94 100

65 32.6 26.8 40.2

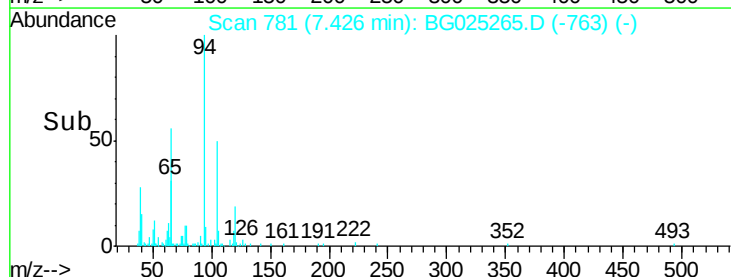
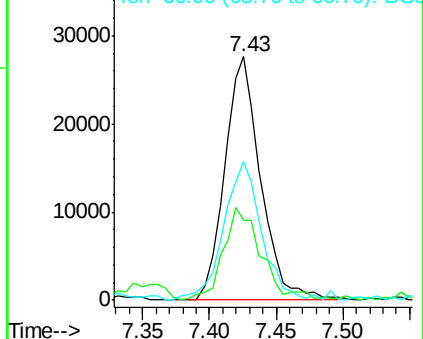
66 57.0 44.4 66.6

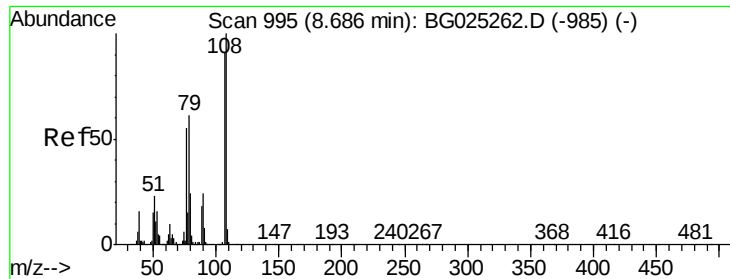


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

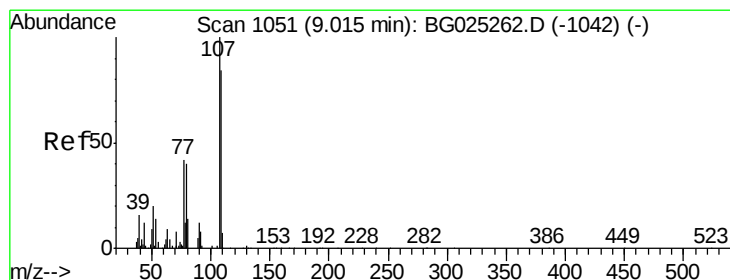
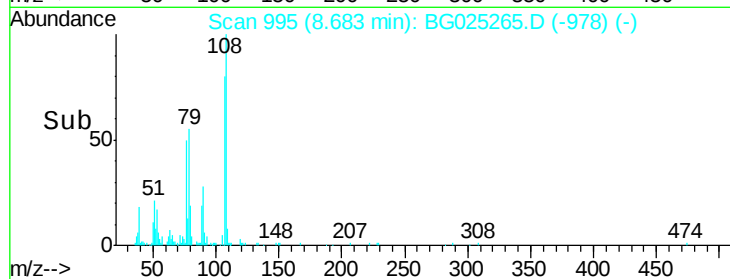
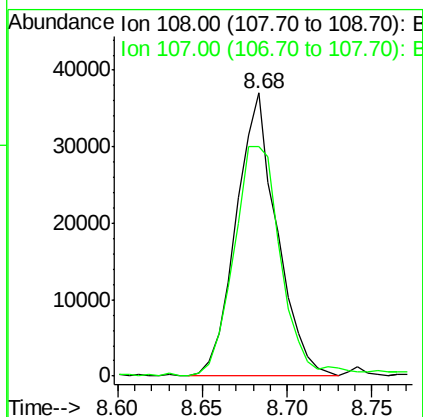
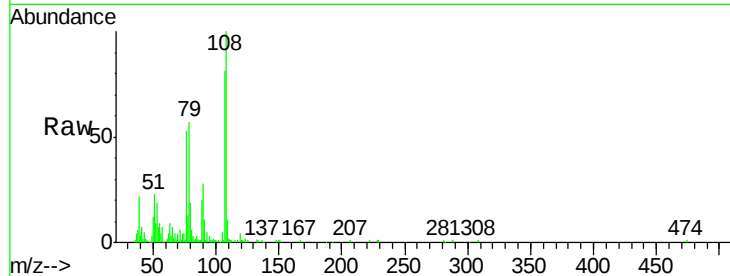




#11
 2-Methylphenol
 Concen: 13.34 ng/ul
 RT: 8.68 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: BG025265.D
 Acq: 17 Dec 2016 8:26

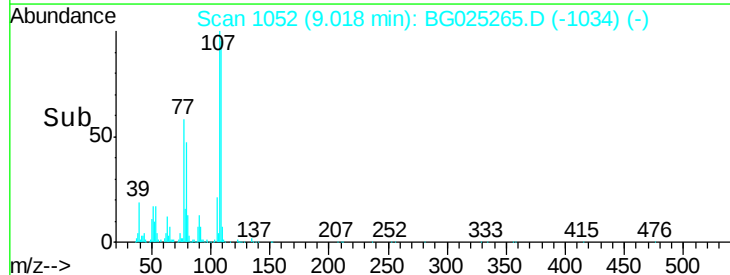
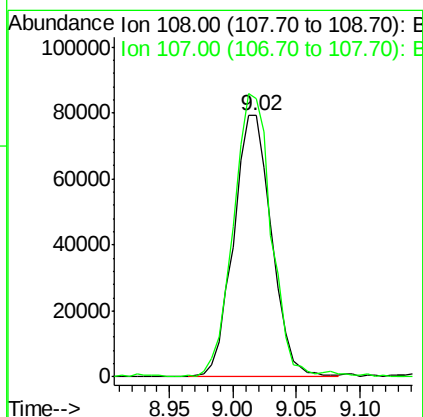
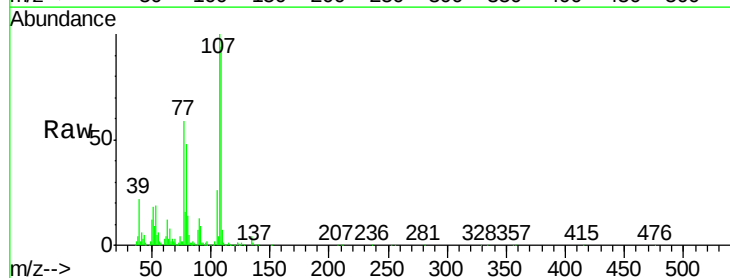
Instrument :
 BNA_G
 ClientSampleId :
 DA883DL

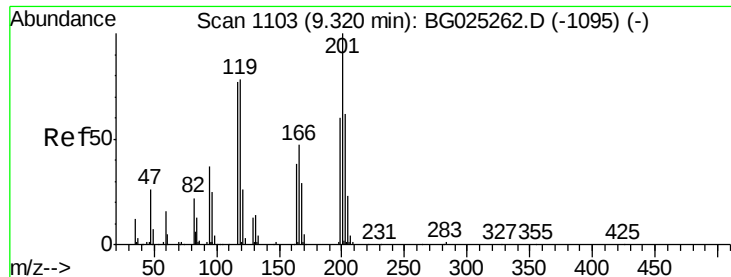
Tgt Ion:108 Resp: 62257
 Ion Ratio Lower Upper
 108 100
 107 81.2 76.7 115.1



#16
 4-Methylphenol
 Concen: 31.76 ng/ul
 RT: 9.02 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: BG025265.D
 Acq: 17 Dec 2016 8:26

Tgt Ion:108 Resp: 164846
 Ion Ratio Lower Upper
 108 100
 107 106.3 91.7 137.5





#17

Hexachloroethane

Concen: 9.50 ng/ul

RT: 9.34 min Scan# 1107

Delta R.T. 0.02 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampleId :

DA883DL

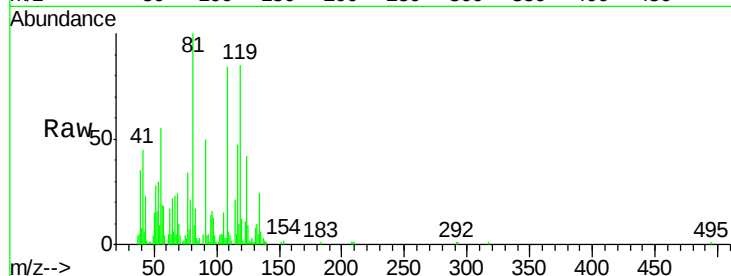
Tgt Ion:117 Resp: 18260

Ion Ratio Lower Upper

117 100

201 0.0 91.9 137.9#

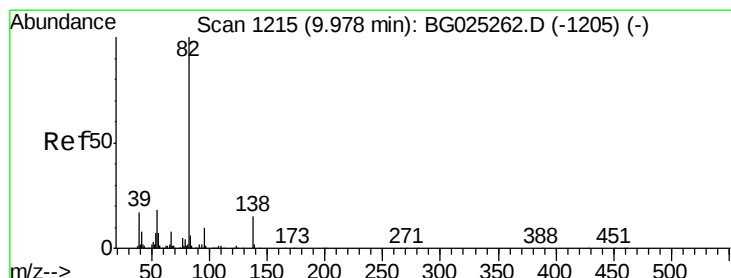
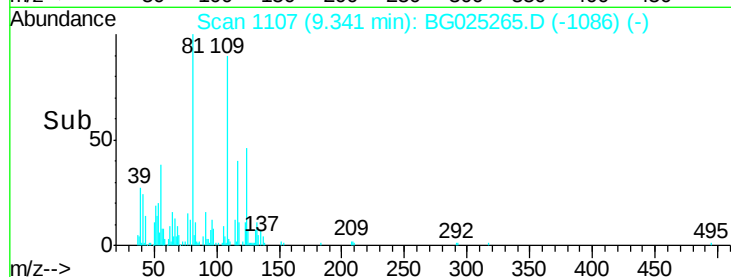
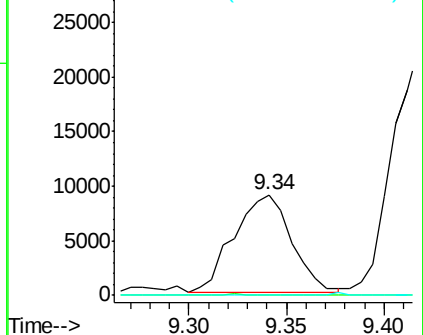
199 0.0 64.3 96.5#



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



#21

Isophorone

Concen: 1.12 ng/ul

RT: 9.96 min Scan# 1212

Delta R.T. -0.02 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

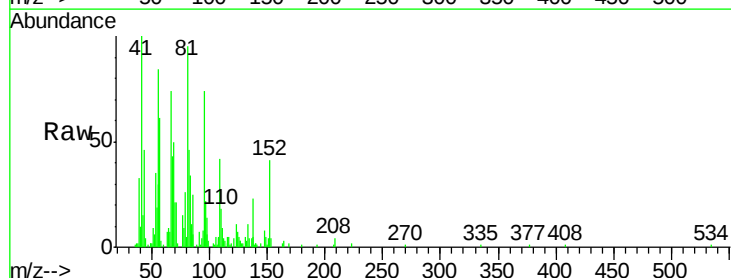
Tgt Ion: 82 Resp: 12416

Ion Ratio Lower Upper

82 100

95 159.7 7.8 11.6#

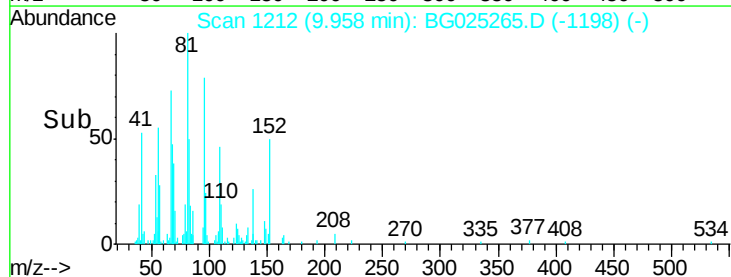
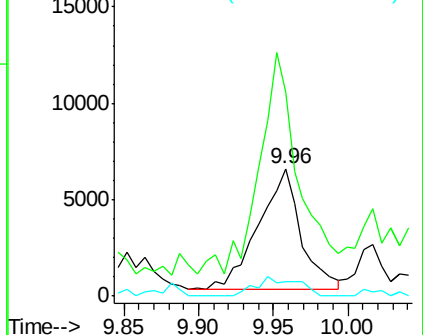
138 11.0 12.2 18.2#

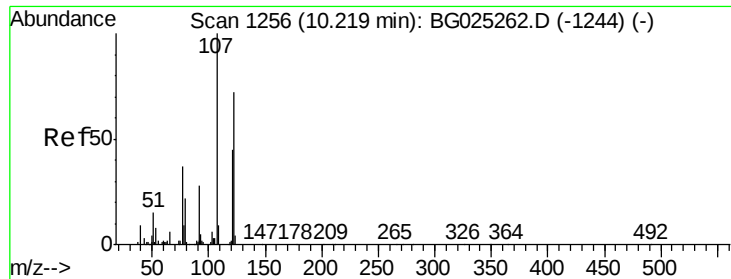


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

Ion 138.00 (137.70 to 138.70): E

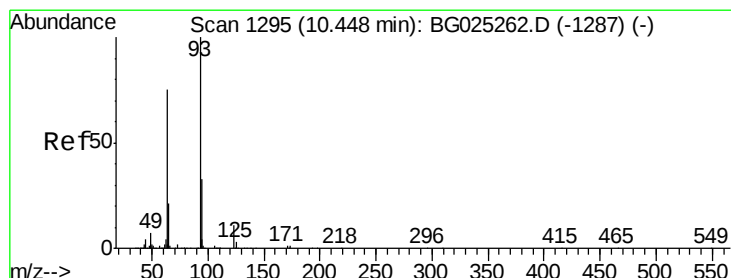
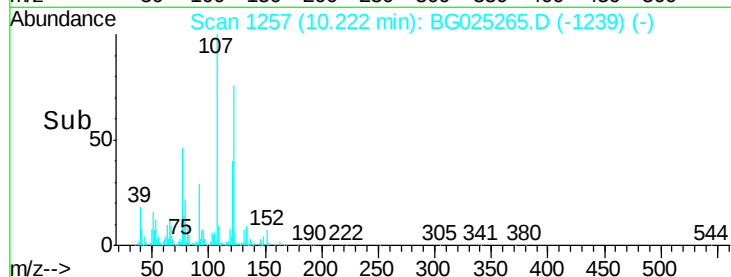
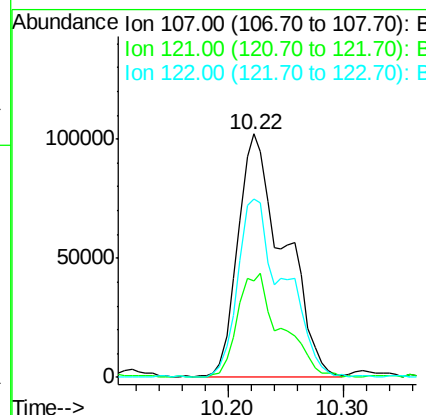
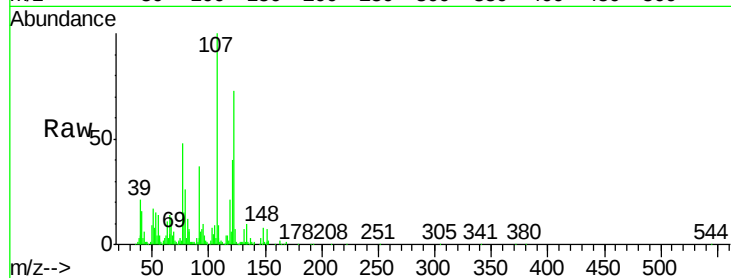




#24
2,4-Dimethylphenol
Concen: 51.15 ng/ul
RT: 10.22 min Scan# 1257
Delta R.T. 0.00 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

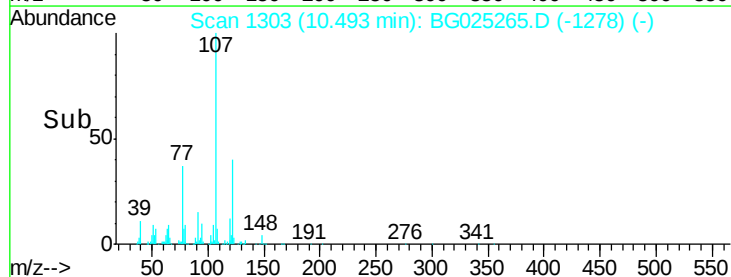
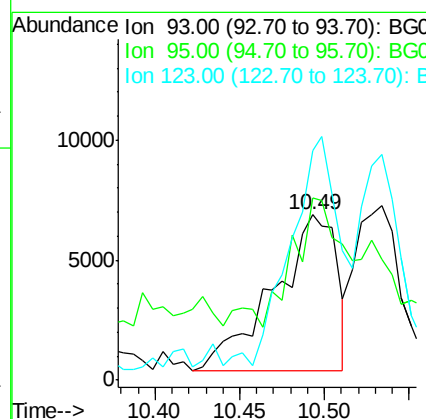
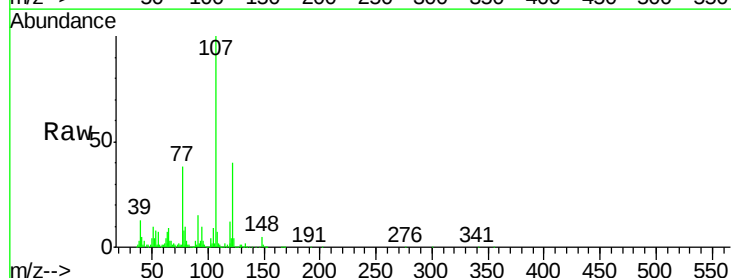
Instrument :
BNA_G
ClientSampled :
DA883DL

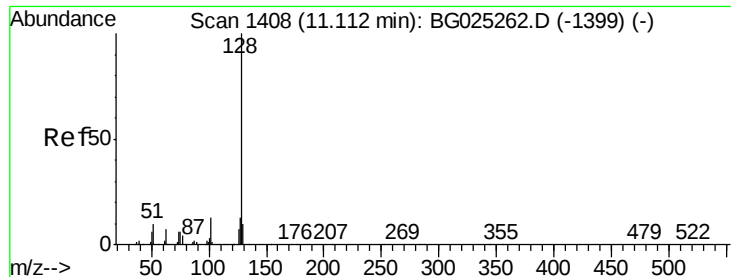
Tgt Ion: 107 Resp: 282120
Ion Ratio Lower Upper
107 100
121 39.8 32.3 48.5
122 73.2 61.2 91.8



#25
Bis(2-Chloroethoxy)methane
Concen: 2.96 ng/ul
RT: 10.49 min Scan# 1303
Delta R.T. 0.04 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

Tgt Ion: 93 Resp: 16711
Ion Ratio Lower Upper
93 100
95 110.1 23.4 35.0#
123 138.9 7.8 11.6#

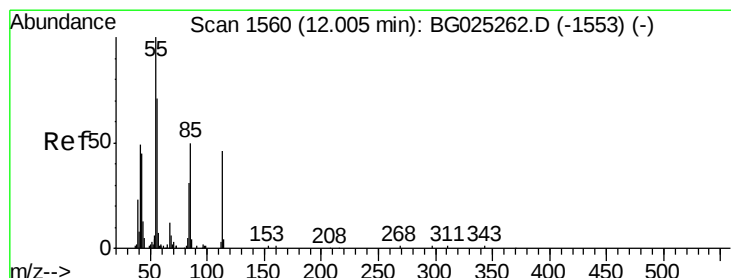
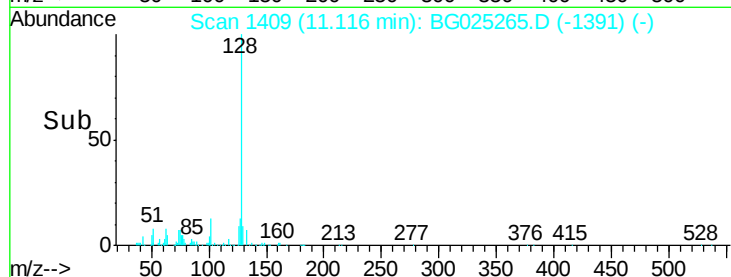
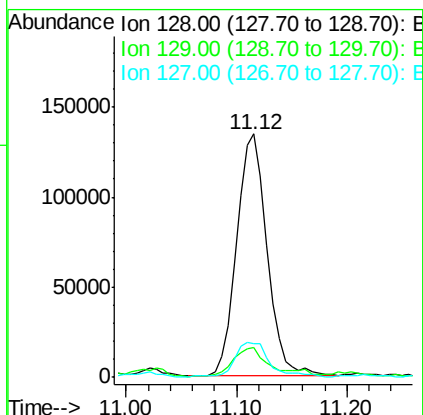
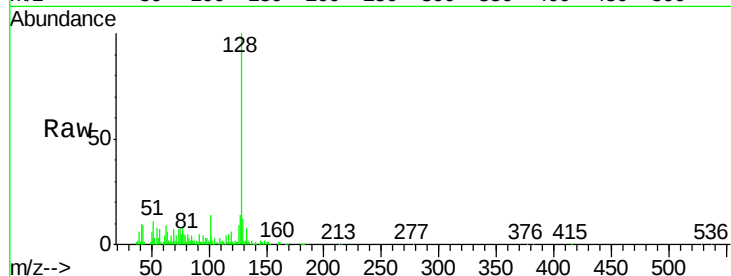




#28
Naphthalene
Concen: 20.80 ng/ul
RT: 11.12 min Scan# 1409
Delta R.T. 0.00 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

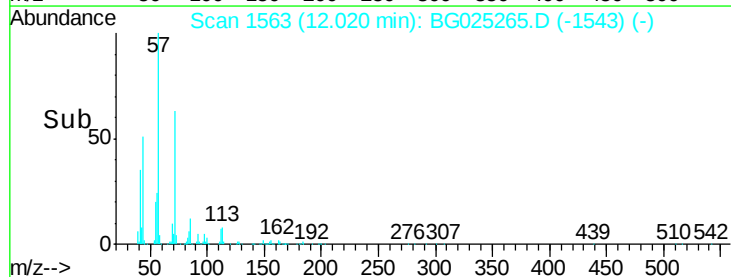
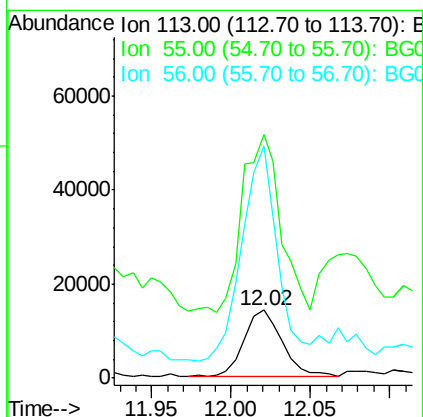
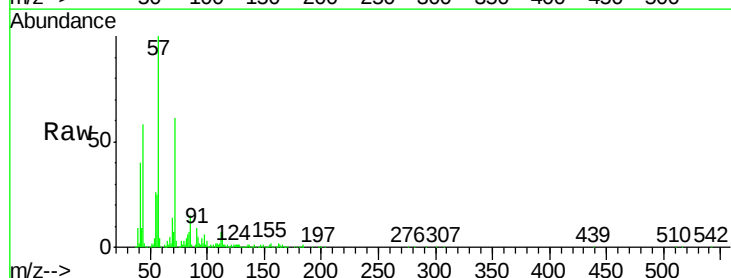
Instrument :
BNA_G
ClientSampleId :
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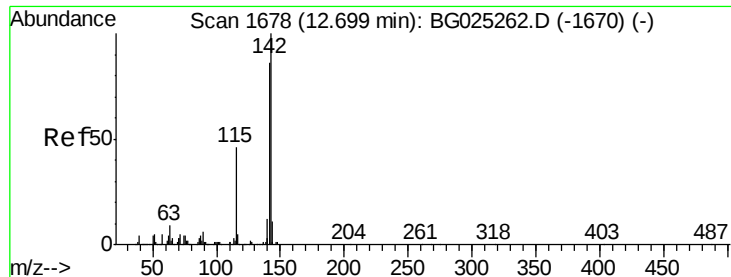
Tgt Ion:128 Resp: 260434
Ion Ratio Lower Upper
128 100
129 12.1 9.4 14.2
127 13.7 10.3 15.5



#32
Caprolactam
Concen: 12.85 ng/ul
RT: 12.02 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

Tgt Ion:113 Resp: 23697
Ion Ratio Lower Upper
113 100
55 357.3 168.6 252.8#
56 339.9 128.5 192.7#

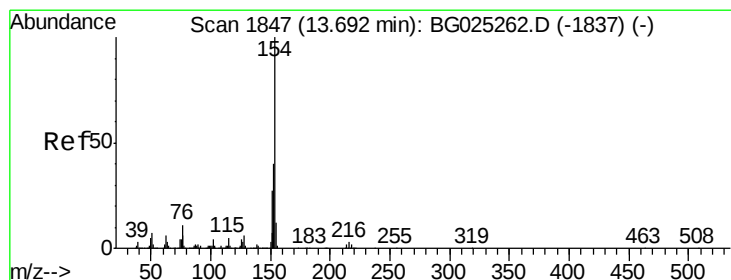
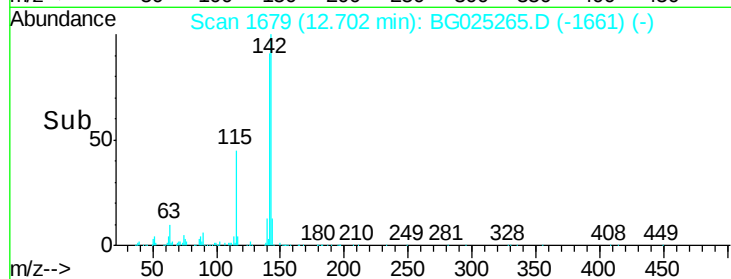
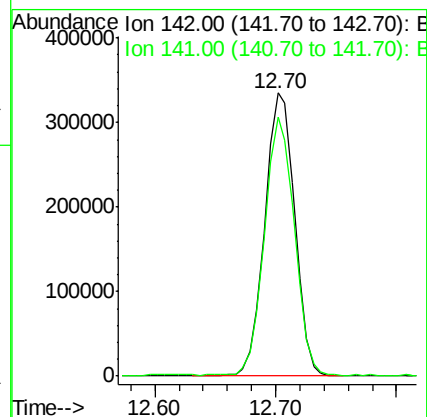
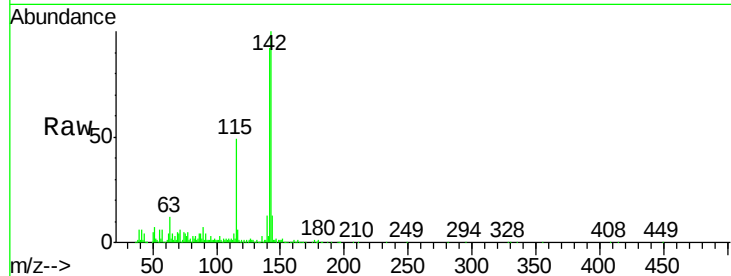




#34
 2-Methylnaphthalene
 Concen: 57.81 ng/ul
 RT: 12.70 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: BG025265.D
 Acq: 17 Dec 2016 8:26

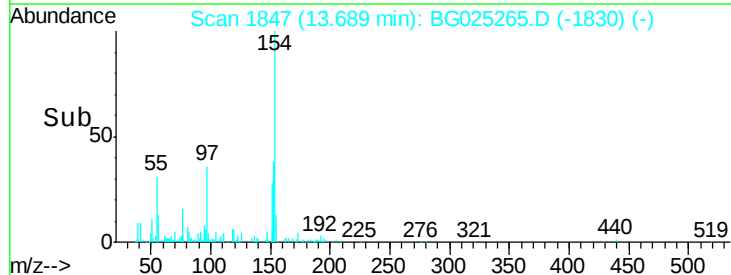
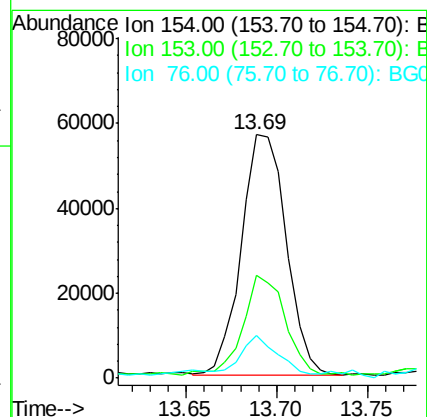
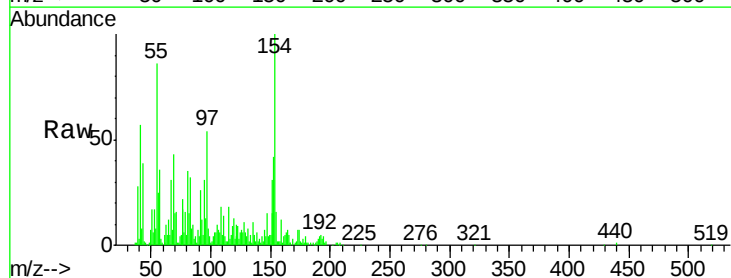
Instrument :
 BNA_G
 ClientSampleId :
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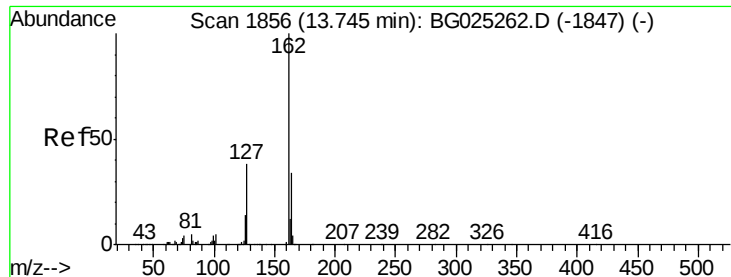
Tgt Ion:142 Resp: 571138
 Ion Ratio Lower Upper
 142 100
 141 91.6 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 7.66 ng/ul
 RT: 13.69 min Scan# 1847
 Delta R.T. -0.00 min
 Lab File: BG025265.D
 Acq: 17 Dec 2016 8:26

Tgt Ion:154 Resp: 97579
 Ion Ratio Lower Upper
 154 100
 153 42.1 32.2 48.2
 76 17.4 9.6 14.4#

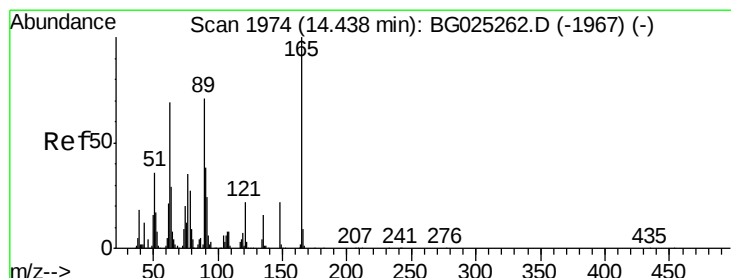
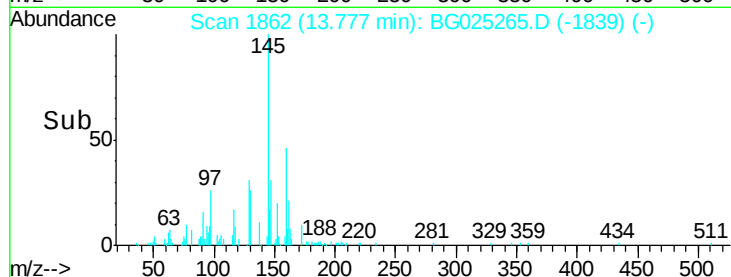
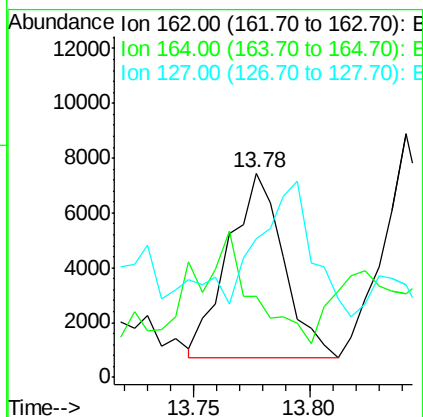
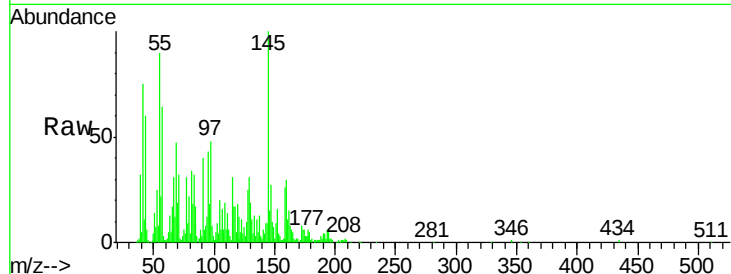




#41
2-Chloronaphthalene
Concen: 1.11 ng/ul
RT: 13.78 min Scan# 1862
Delta R.T. 0.03 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

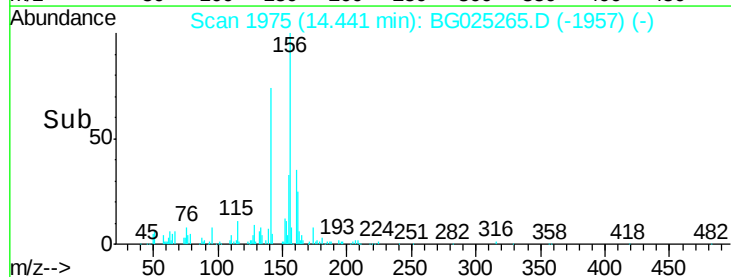
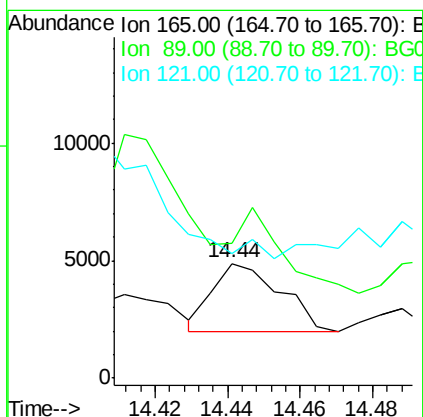
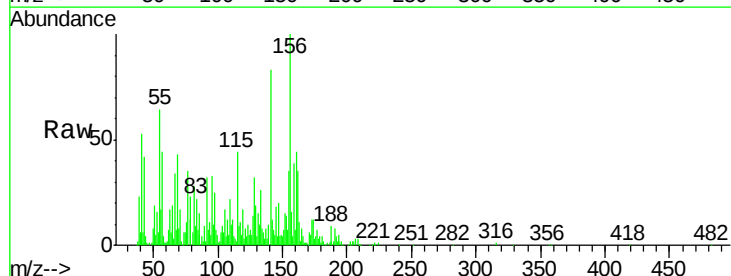
Instrument :
BNA_G
ClientSampled :
DA883DL

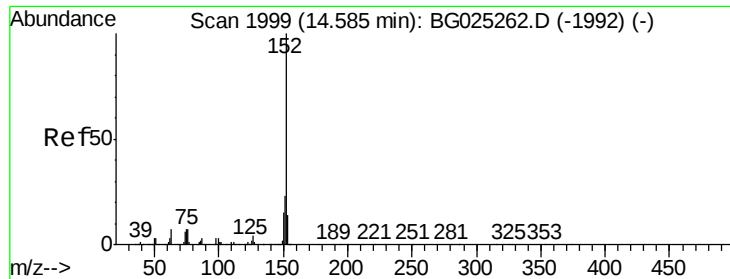
Tgt Ion:162 Resp: 11237
Ion Ratio Lower Upper
162 100
164 39.8 25.0 37.6#
127 67.7 30.7 46.1#



#45
2,6-Dinitrotoluene
Concen: 1.23 ng/ul
RT: 14.44 min Scan# 1975
Delta R.T. 0.00 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

Tgt Ion:165 Resp: 3763
Ion Ratio Lower Upper
165 100
89 117.3 52.9 79.3#
121 108.8 22.2 33.4#





#47

Acenaphthylene

Concen: 1.71 ng/ul

RT: 14.58 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampleId :

DA883DL

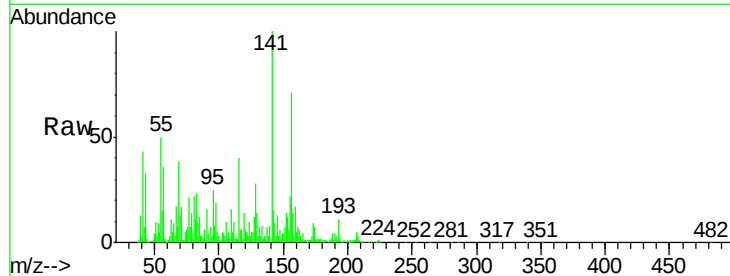
Tgt Ion:152 Resp: 26277

Ion Ratio Lower Upper

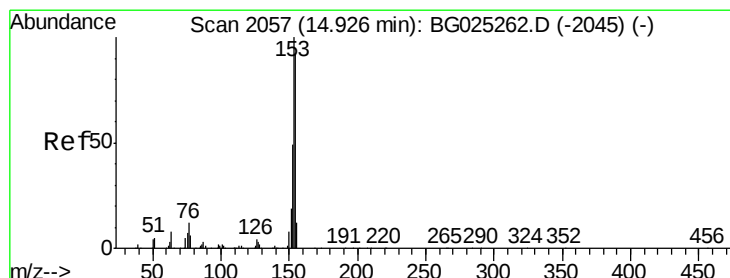
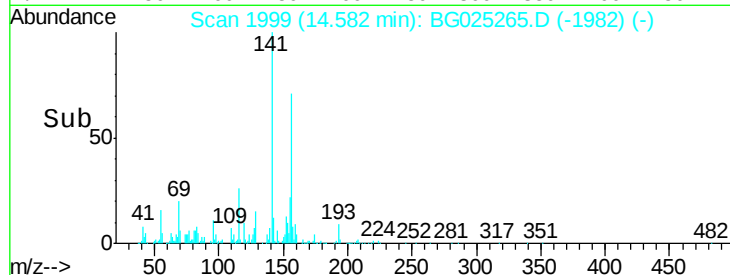
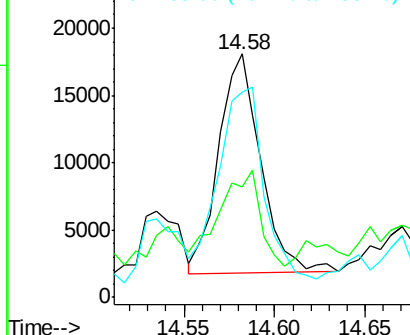
152 100

151 45.4 16.7 25.1#

153 84.2 11.4 17.2#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 6.93 ng/ul

RT: 14.93 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

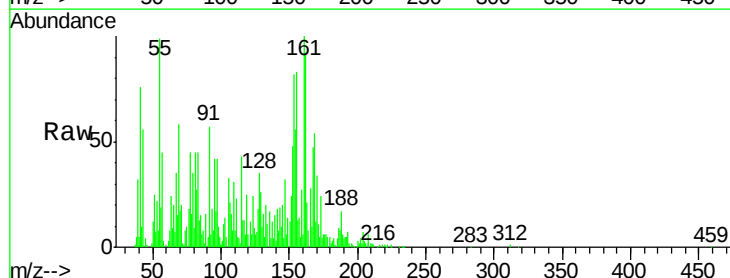
Tgt Ion:153 Resp: 73058

Ion Ratio Lower Upper

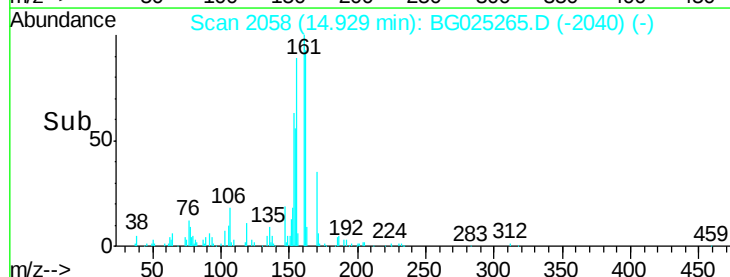
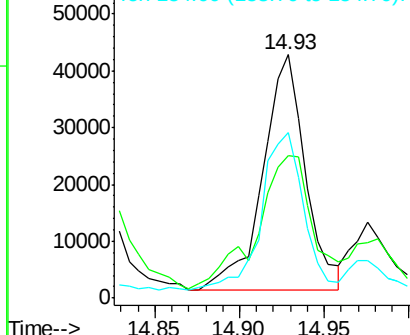
153 100

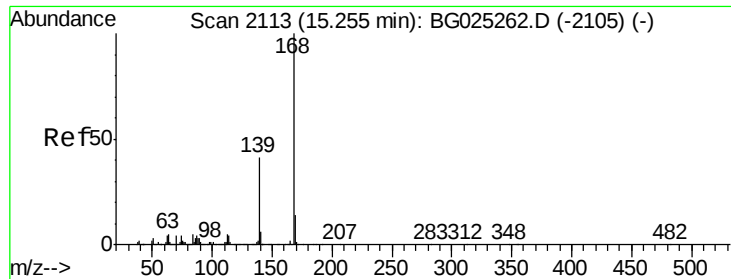
152 58.6 36.5 54.7#

154 67.8 72.3 108.5#



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: 7.59 ng/ul

RT: 15.26 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampleId :

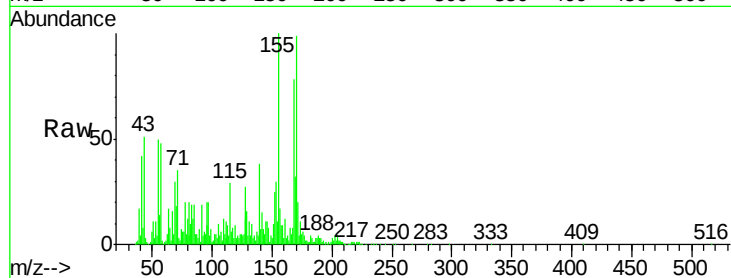
DA883DL

Tgt Ion:168 Resp: 126465

Ion Ratio Lower Upper

168 100

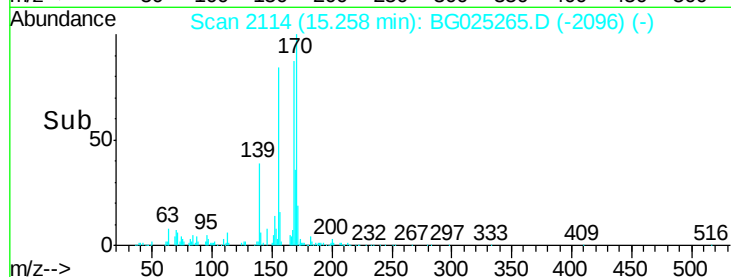
139 48.7 33.8 50.8



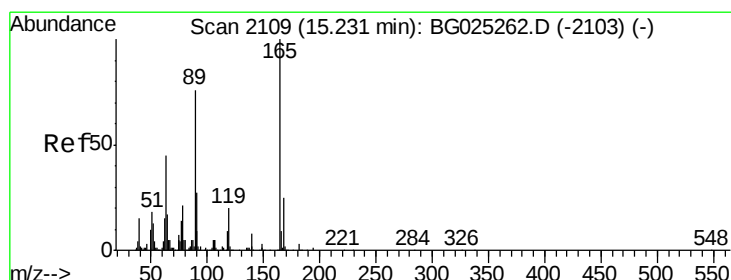
Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.26



Time-->



#54

2,4-Dinitrotoluene

Concen: 4.91 ng/ul

RT: 15.24 min Scan# 2111

Delta R.T. 0.01 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

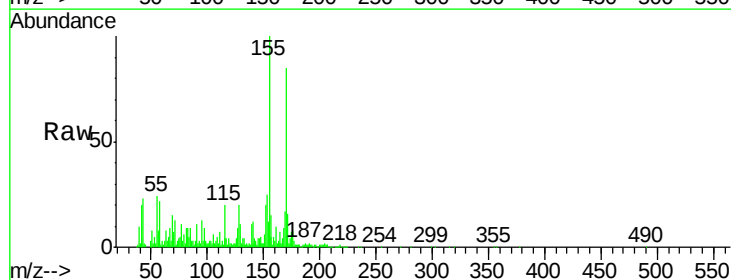
Tgt Ion:165 Resp: 22597

Ion Ratio Lower Upper

165 100

63 112.3 46.8 70.2#

182 19.4 1.8 2.6#

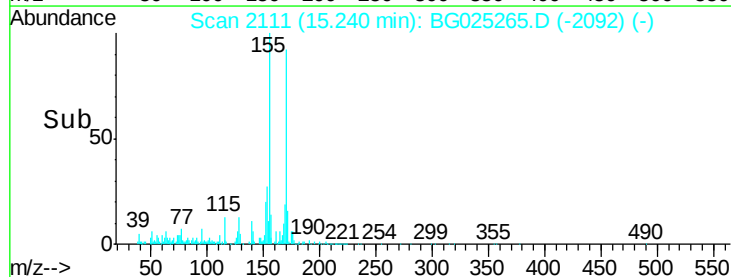


Abundance Ion 165.00 (164.70 to 165.70): E

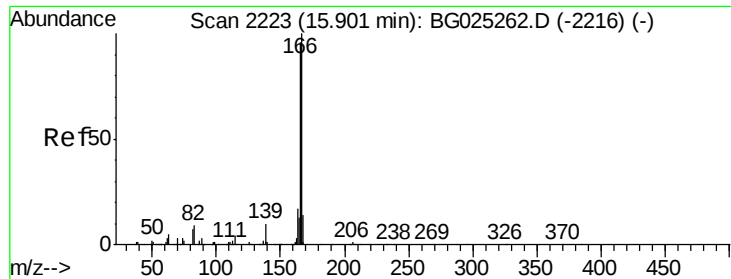
Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E

15.24



Time-->



#58

Fluorene

Concen: 15.05 ng/ul

RT: 15.90 min Scan# 2224

Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

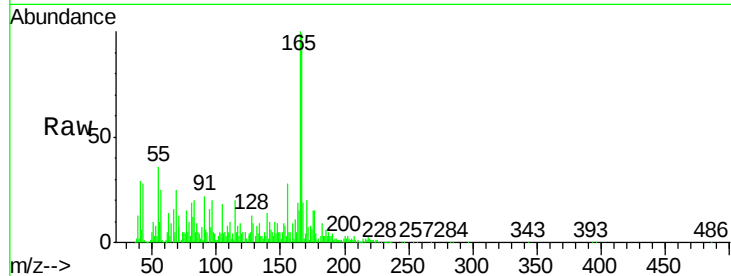
Instrument :

BNA_G

ClientSampleId :

DA883DL

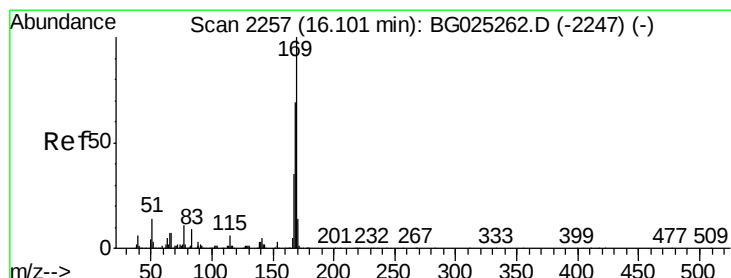
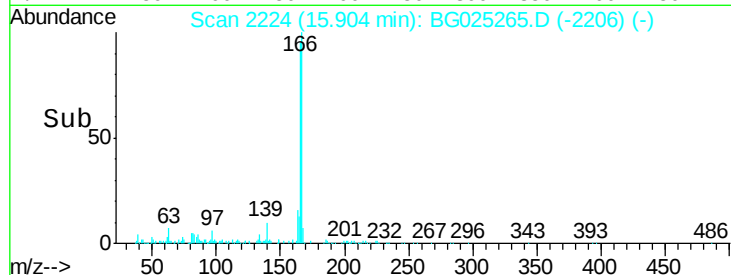
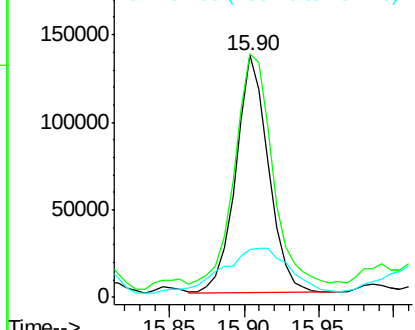
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.7	119.5
167	19.5	11.4	17.2#



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



#64

N-Nitrosodiphenylamine

Concen: 10.97 ng/ul

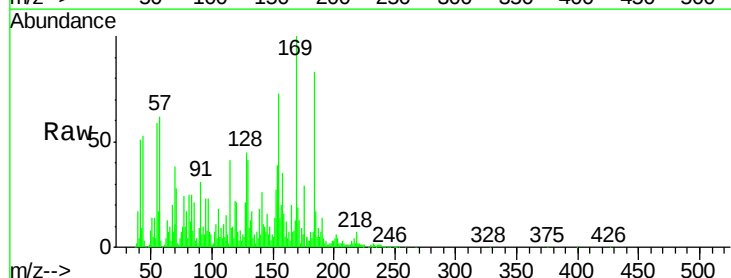
RT: 16.10 min Scan# 2257

Delta R.T. -0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

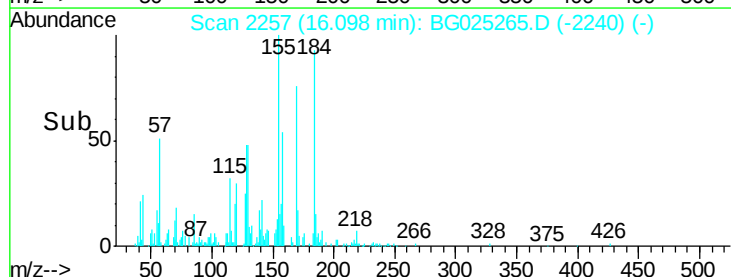
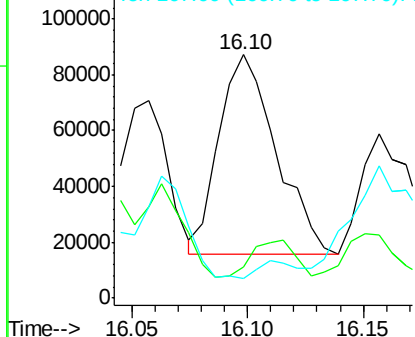
Tgt Ion	Ratio	Lower	Upper
169	100		
168	12.7	59.1	88.7#
167	7.8	29.7	44.5#

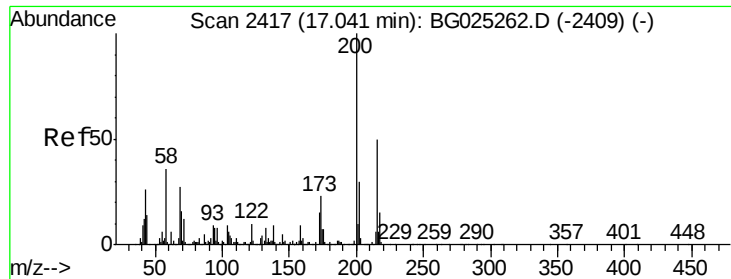


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#67

Atrazine

Concen: 1.49 ng/ul

RT: 17.03 min Scan# 2416

Delta R.T. -0.01 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

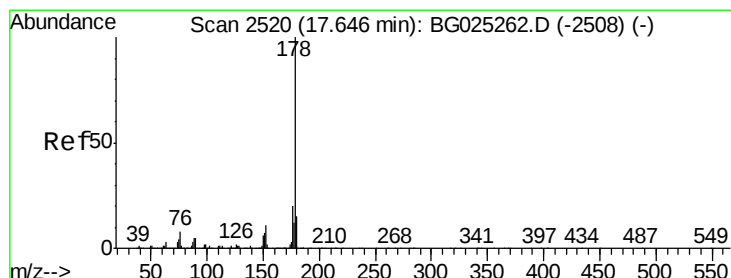
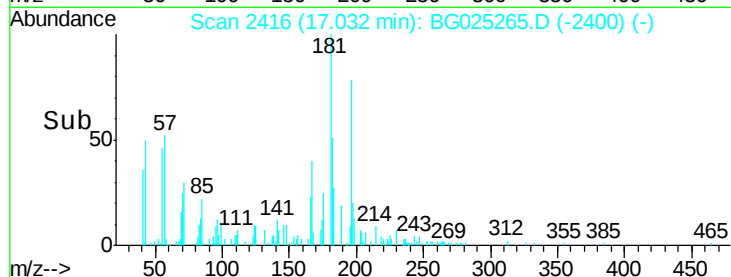
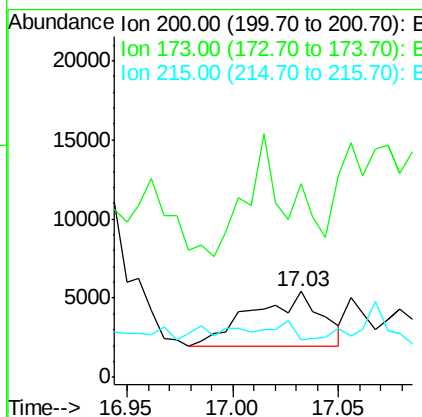
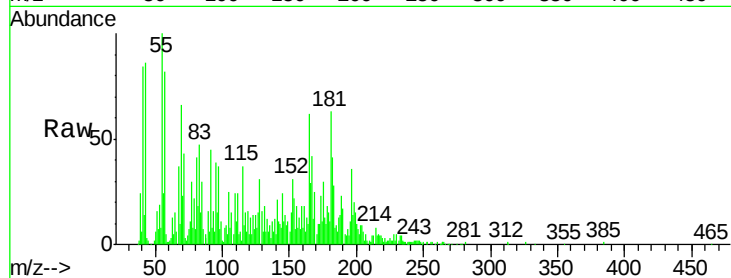
Instrument :

BNA_G

ClientSampleId :

DA883DL

Tgt Ion	Ratio	Lower	Upper
200	100		
173	226.9	19.2	28.8#
215	43.5	40.3	60.5



#69

Phenanthrene

Concen: 21.10 ng/ul

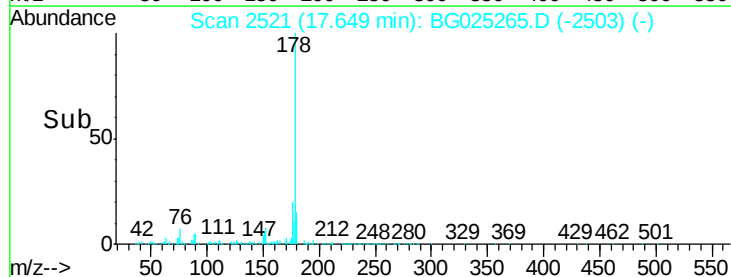
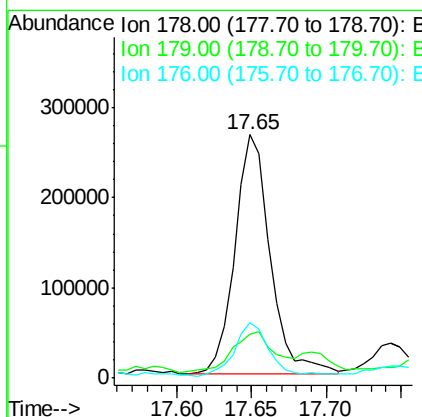
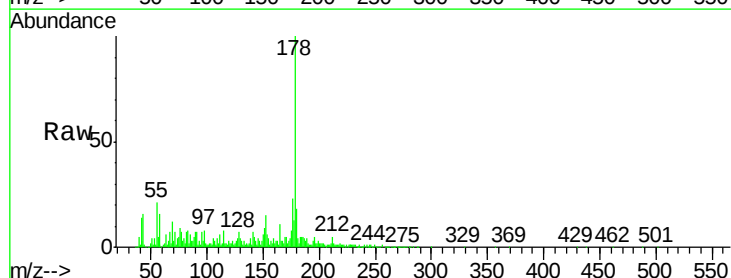
RT: 17.65 min Scan# 2521

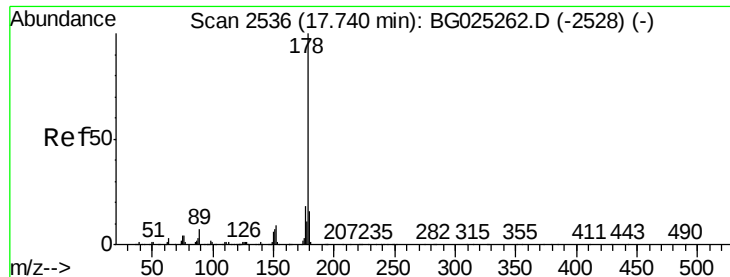
Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Tgt Ion	Ratio	Lower	Upper
178	100		
179	18.1	12.4	18.6
176	22.6	16.5	24.7





#71

Anthracene

Concen: 2.49 ng/ul

RT: 17.74 min Scan# 2537

Delta R.T. 0.00 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampled :

DA883DL

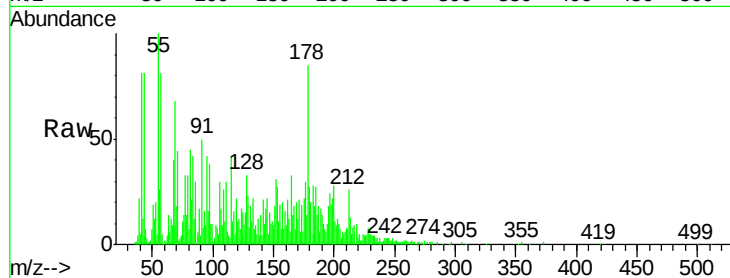
Tgt Ion:178 Resp: 53260

Ion Ratio Lower Upper

178 100

179 31.3 12.6 19.0#

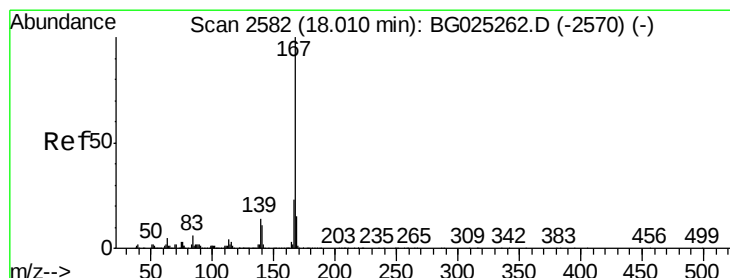
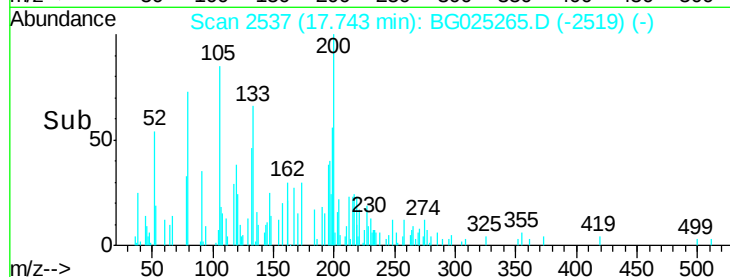
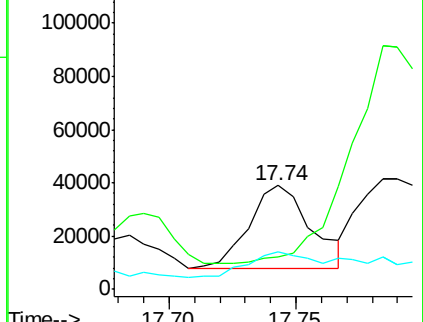
176 35.5 15.9 23.9#



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

Carbazole

Concen: 1.67 ng/ul

RT: 18.02 min Scan# 2584

Delta R.T. 0.01 min

Lab File: BG025265.D

Acq: 17 Dec 2016 8:26

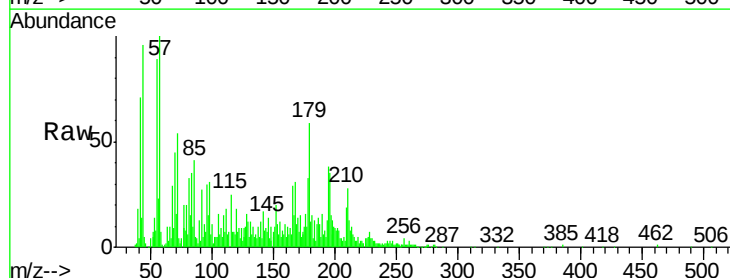
Tgt Ion:167 Resp: 29690

Ion Ratio Lower Upper

167 100

166 49.9 17.9 26.9#

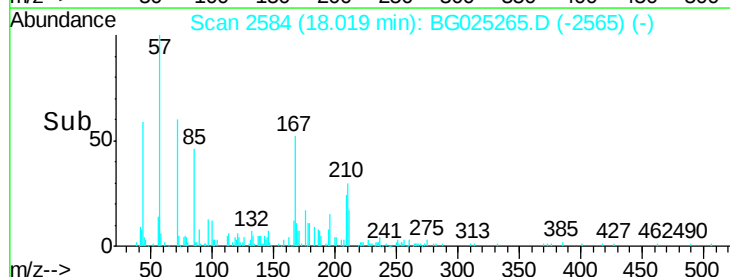
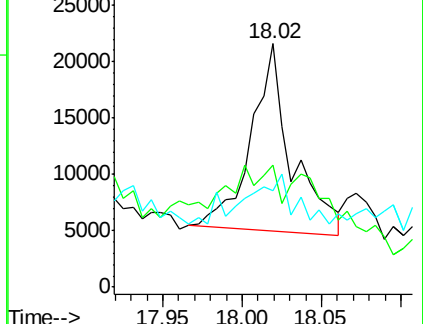
139 39.6 10.5 15.7#

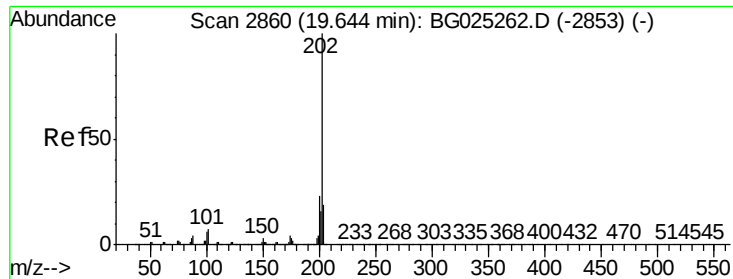


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

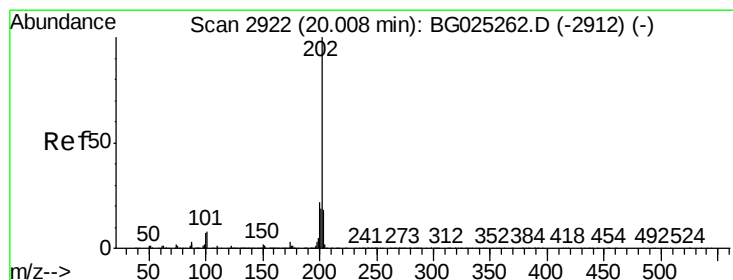
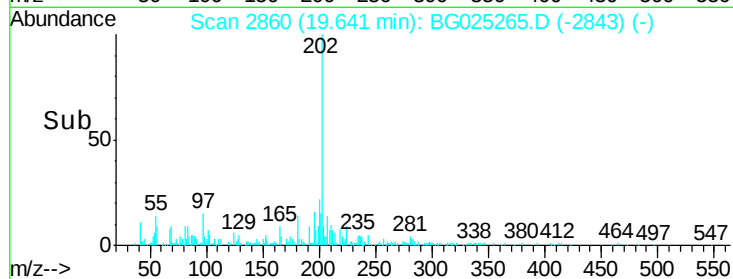
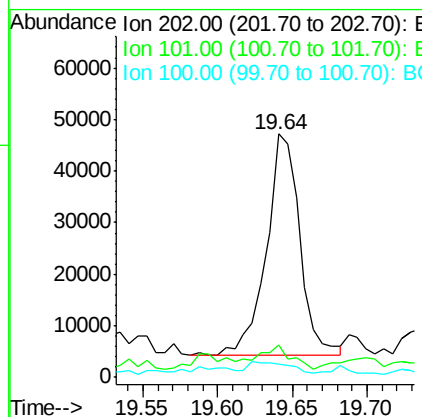
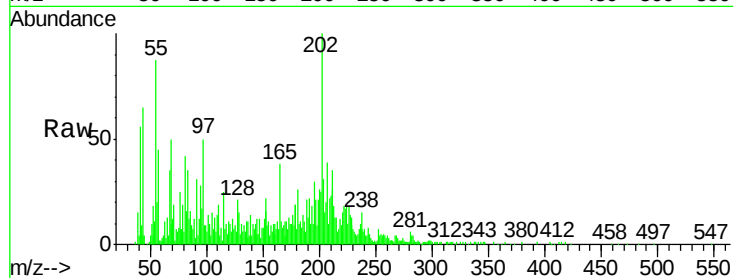




#74
Fluoranthene
Concen: 2.69 ng/ul
RT: 19.64 min Scan# 2860
Delta R.T. -0.00 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

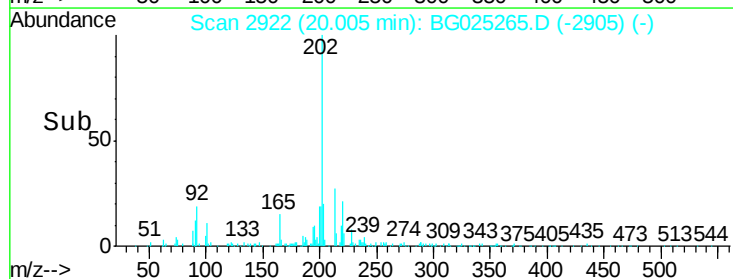
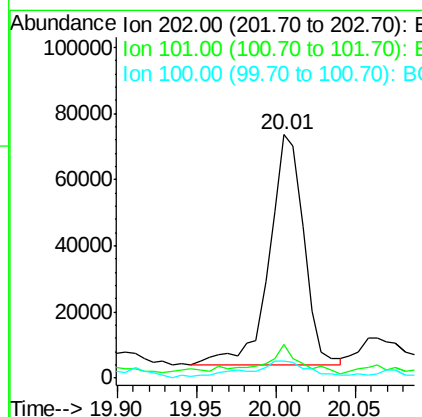
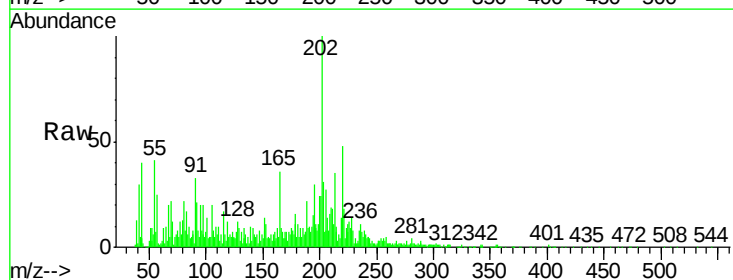
Instrument :
BNA_G
ClientSampleId :
DA883DL

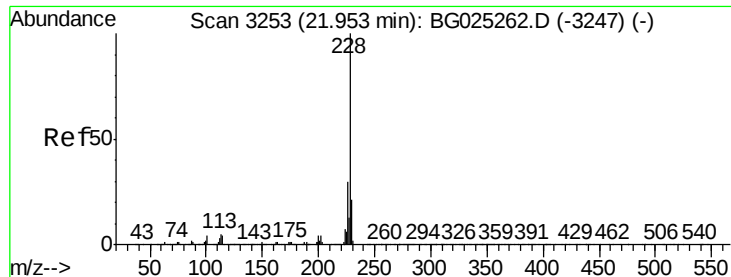
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	6.2	9.2#
100	5.5	5.2	7.8



#77
Pyrene
Concen: 3.84 ng/ul
RT: 20.01 min Scan# 2922
Delta R.T. -0.00 min
Lab File: BG025265.D
Acq: 17 Dec 2016 8:26

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.0	6.9	10.3#
100	6.9	6.6	10.0





#82

Chrysene

Concen: 1.10 ng/ul

RT: 21.95 min Scan# 3253

Delta R.T. -0.00 min

Lab File: BG025265.D

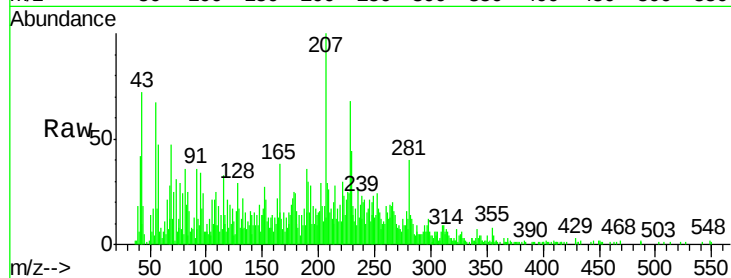
Acq: 17 Dec 2016 8:26

Instrument :

BNA_G

ClientSampleId :

DA883DL



Tgt Ion: 228 Resp: 30503

Ion Ratio Lower Upper

228 100

226 36.4 24.0 36.0#

229 64.3 16.9 25.3#

