

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081216\
 Data File : BG023659.D
 Acq On : 12 Aug 2016 17:09
 Operator : UM/SJ
 Sample : SSTDCCC020
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

Quant Time: Aug 13 01:34:09 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Aug 13 01:31:24 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.13	152	156562	20.00	ng/ul	0.02
18) Naphthalene-d8	10.97	136	695992	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.80	164	478262	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.57	188	1049169	20.00	ng/ul	0.01
75) Chrysene-d12	21.90	240	1011711	20.00	ng/ul	0.02
83) Perylene-d12	25.33	264	1038400	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.49	96	25828	7.01	ng/uL	0.01
5) Phenol-d5	7.29	99	316768	20.08	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.44	67	203412	20.13	ng/ul	0.02
9) 2-Chlorophenol-d4	7.66	132	219050	20.36	ng/ul	0.02
13) 4-Methylphenol-d8	8.85	113	245690	19.95	ng/ul	0.02
19) Nitrobenzene-d5	9.31	128	115673	21.09	ng/ul	0.02
22) 2-Nitrophenol-d4	10.04	143	133405	21.17	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.59	165	257986	21.71	ng/ul	0.02
29) 4-Chloroaniline-d4	11.11	131	308973	22.16	ng/ul	0.02
43) Dimethylphthalate-d6	14.19	166	780398	19.93	ng/ul	0.01
46) Acenaphthylene-d8	14.49	160	915817	20.78	ng/ul	0.01
51) 4-Nitrophenol-d4	15.02	143	136750	20.46	ng/ul	0.02
57) Fluorene-d10	15.80	176	689159	19.05	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.93	200	139462	20.72	ng/ul	0.02
70) Anthracene-d10	17.66	188	1010318	21.37	ng/ul	0.01
76) Pyrene-d10	19.96	212	974472	19.03	ng/ul	0.02
87) Benzo(a)pyrene-d12	25.09	264	969515	20.63	ng/ul	0.03

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.52	88	27875	7.22	ng/uL#	57
4) Benzaldehyde	7.26	77	216299	22.50	ng/ul	86
6) Phenol	7.31	94	321942	19.60	ng/ul#	74
8) Bis(2-Chloroethyl)ether	7.54	93	239309	20.07	ng/ul	90
10) 2-Chlorophenol	7.69	128	221209	20.19	ng/ul#	84
11) 2-Methylphenol	8.58	108	242991	19.65	ng/ul	92
12) 2,2'-oxybis(1-Chloropropan	8.67	45	338172	20.73	ng/ul	98
14) Acetophenone	8.96	105	394269	19.96	ng/ul#	79
15) N-Nitroso-di-n-propylamine	8.94	70	238663	20.09	ng/ul#	88
16) 4-Methylphenol	8.91	108	270127	19.48	ng/ul	100
17) Hexachloroethane	9.22	117	99089	20.95	ng/ul	95
20) Nitrobenzene	9.35	77	330991	20.58	ng/ul#	88
21) Isophorone	9.88	82	622018	21.03	ng/ul#	92
23) 2-Nitrophenol	10.07	139	143766	21.13	ng/ul#	60
24) 2,4-Dimethylphenol	10.13	107	306910	20.56	ng/ul	88
25) Bis(2-Chloroethoxy)methane	10.36	93	350531	20.55	ng/ul	98
27) 2,4-Dichlorophenol	10.62	162	249848	20.85	ng/ul	94
28) Naphthalene	11.02	128	722928	20.46	ng/ul	99
30) 4-Chloroaniline	11.13	127	301103	21.76	ng/ul	99
31) Hexachlorobutadiene	11.29	225	174648	21.88	ng/ul	98
32) Caprolactam	11.90	113	91328	18.35	ng/ul#	36
33) 4-Chloro-3-methylphenol	12.26	107	311810	20.22	ng/ul#	84
34) 2-Methylnaphthalene	12.62	142	569658	19.88	ng/ul	99

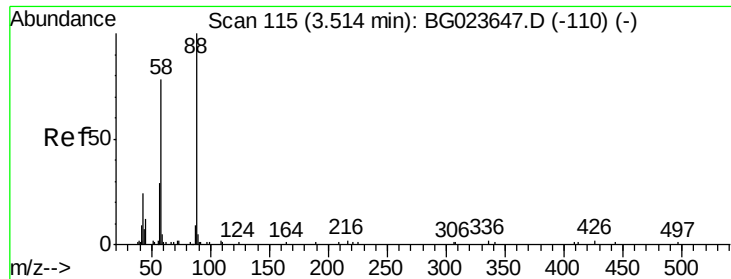
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 Data File : BG023659.D
 Acq On : 12 Aug 2016 17:09
 Operator : UM/SJ
 Sample : SSTDC0020
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	12.99	216	327162	22.28	ng/ul	98
37) Hexachlorocyclopentadiene	12.96	237	161775	19.92	ng/ul	99
38) 2,4,6-Trichlorophenol	13.24	196	228181	22.44	ng/ul	97
39) 2,4,5-Trichlorophenol	13.32	196	233545	21.42	ng/ul	99
40) 1,1'-Biphenyl	13.63	154	736814	20.96	ng/ul	98
41) 2-Chloronaphthalene	13.68	162	584184	21.38	ng/ul	97
42) 2-Nitroaniline	13.88	65	240239	21.53	ng/ul#	61
44) Dimethylphthalate	14.24	163	766448	19.77	ng/ul	98
45) 2,6-Dinitrotoluene	14.38	165	174792	20.79	ng/ul#	88
47) Acenaphthylene	14.52	152	961668	20.86	ng/ul	99
48) 3-Nitroaniline	14.71	138	170598	21.59	ng/ul#	68
49) Acenaphthene	14.86	153	639678	20.37	ng/ul	98
52) 4-Nitrophenol	15.04	109	128539	19.20	ng/ul#	72
53) Dibenzofuran	15.20	168	911260	19.58	ng/ul	90
54) 2,4-Dinitrotoluene	15.17	165	249817	19.61	ng/ul#	76
55) 2,3,4,6-Tetrachlorophenol	15.43	232	219997	19.64	ng/ul	100
56) Diethylphthalate	15.60	149	786322	19.40	ng/ul	96
58) Fluorene	15.86	166	753898	19.45	ng/ul	99
59) 4-Chlorophenyl-phenylether	15.84	204	376070	19.29	ng/ul	97
60) 4-Nitroaniline	15.88	138	172289	18.80	ng/ul#	68
63) 4,6-Dinitro-2-methylphenol	15.94	198	151840	21.49	ng/ul#	83
64) N-Nitrosodiphenylamine	16.06	169	681191	23.23	ng/ul	99
65) 4-Bromophenyl-phenylether	16.74	248	262593	21.82	ng/ul	97
66) Hexachlorobenzene	16.87	284	281385	21.95	ng/ul	98
67) Atrazine	17.01	200	272321	22.49	ng/ul	98
68) Pentachlorophenol	17.22	266	148024	20.93	ng/ul	93
69) Phenanthrene	17.61	178	1153070	21.22	ng/ul	97
71) Anthracene	17.70	178	1205731	21.75	ng/ul	97
72) Carbazole	17.98	167	998603	22.35	ng/ul	98
73) Di-n-butylphthalate	18.51	149	1267842	22.66	ng/ul#	94
74) Fluoranthene	19.63	202	1194092	21.47	ng/ul#	92
77) Pyrene	19.99	202	1206900	19.30	ng/ul#	89
78) Butylbenzylphthalate	20.86	149	526463	21.95	ng/ul#	85
79) 3,3'-Dichlorobenzidine	21.78	252	354147	19.87	ng/ul#	96
80) Benzo(a)anthracene	21.88	228	1208250	21.21	ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.75	149	755029	23.67	ng/ul#	97
82) Chrysene	21.95	228	1084072	20.93	ng/ul	96
84) Di-n-octyl phthalate	23.02	149	1310308	24.98	ng/ul	100
85) Benzo(b)fluoranthene	24.23	252	1192118	20.18	ng/ul#	95
86) Benzo(k)fluoranthene	24.30	252	1190359	20.47	ng/ul#	92
88) Benzo(a)pyrene	25.16	252	1170708	20.53	ng/ul#	94
89) Indeno(1,2,3-cd)pyrene	29.27	276	1407894	21.01	ng/ul#	86
90) Dibenzo(a,h)anthracene	29.33	278	1228205	21.49	ng/ul#	91
91) Benzo(g,h,i)perylene	30.51	276	1152769	20.75	ng/ul#	83

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



#2

1,4-Dioxane

Concen: 7.22 ng/uL

RT: 3.52 min Scan# 116

Delta R.T. 0.01 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

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BNA_G

ClientSampleId :

SSTD02030

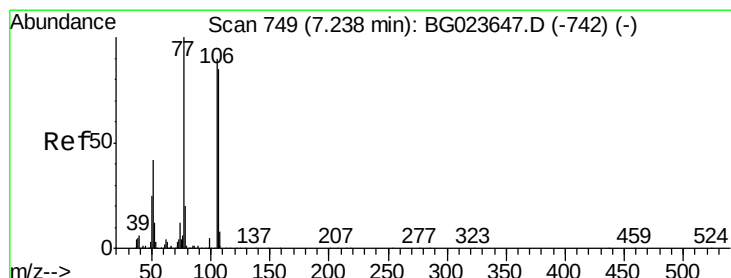
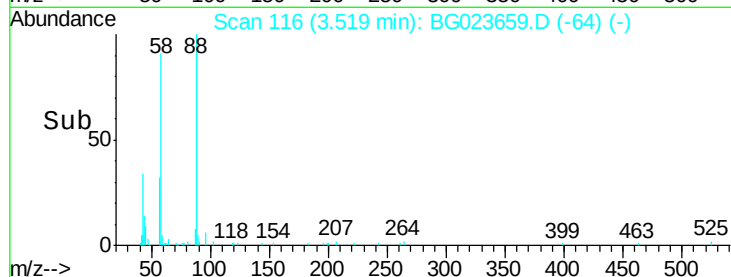
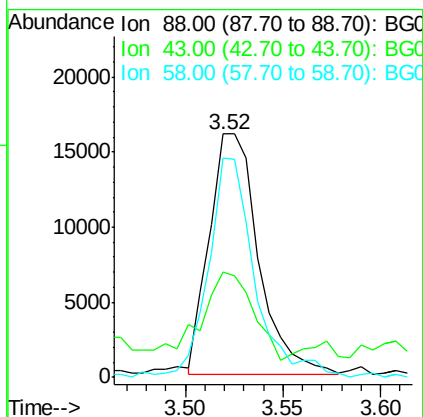
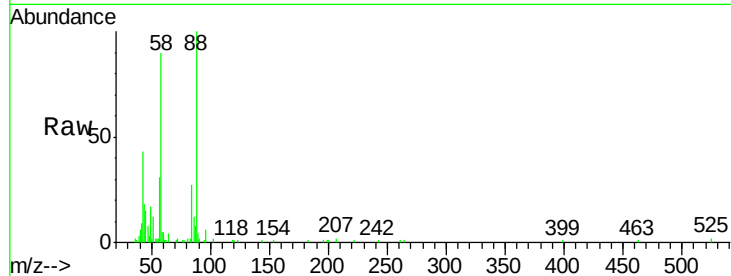
Tgt Ion: 88 Resp: 27875

Ion Ratio Lower Upper

88 100

43 43.5 16.6 24.8#

58 90.0 47.2 70.8#



#4

Benzaldehyde

Concen: 22.50 ng/uL

RT: 7.26 min Scan# 752

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

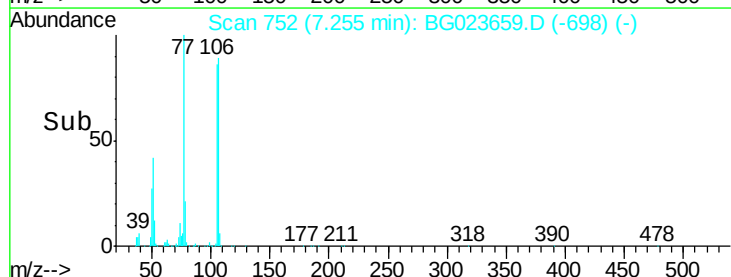
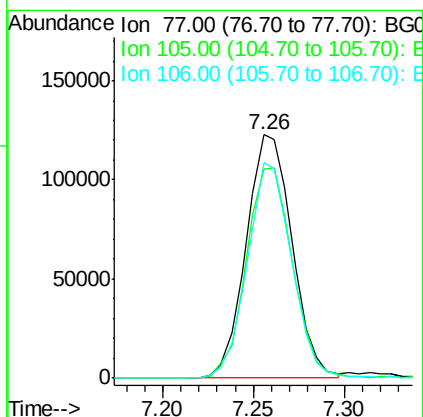
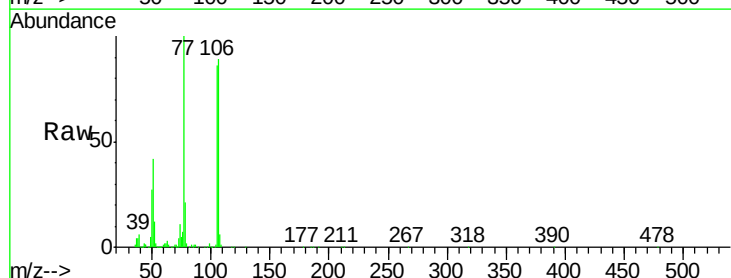
Tgt Ion: 77 Resp: 216299

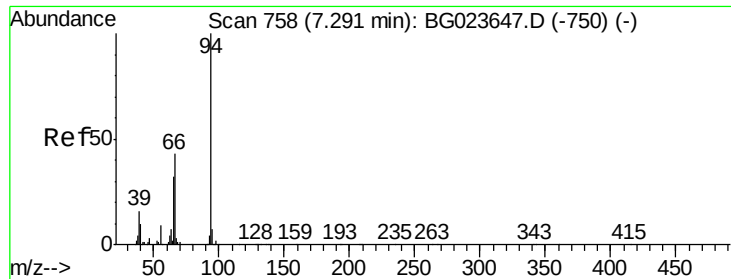
Ion Ratio Lower Upper

77 100

105 85.7 83.8 125.8

106 88.6 77.9 116.9





#6

Phenol

Concen: 19.60 ng/ul

RT: 7.31 min Scan# 762

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

Instrument :

BNA_G

ClientSampleId :

SSTD02030

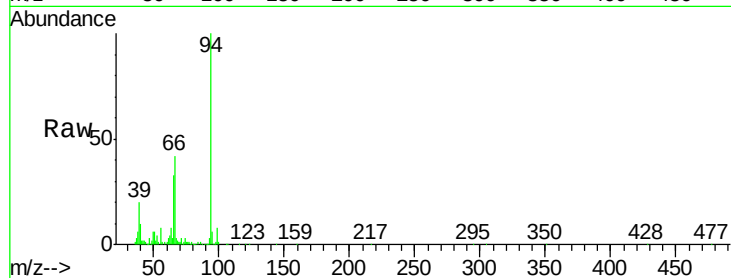
Tgt Ion: 94 Resp: 321942

Ion Ratio Lower Upper

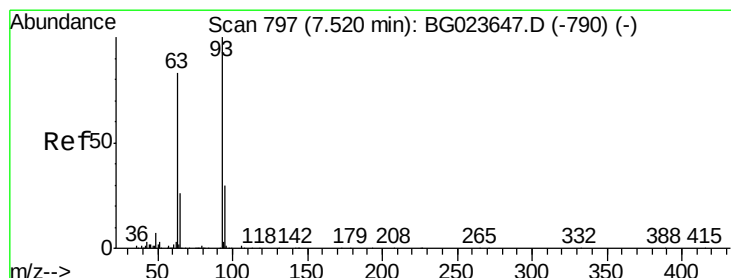
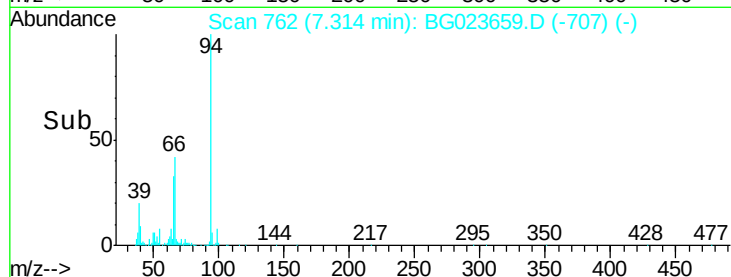
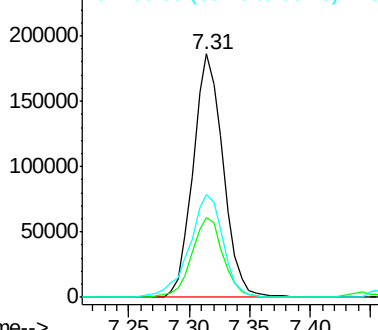
94 100

65 32.8 16.8 25.2#

66 42.1 22.6 33.8#



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: 20.07 ng/ul

RT: 7.54 min Scan# 800

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

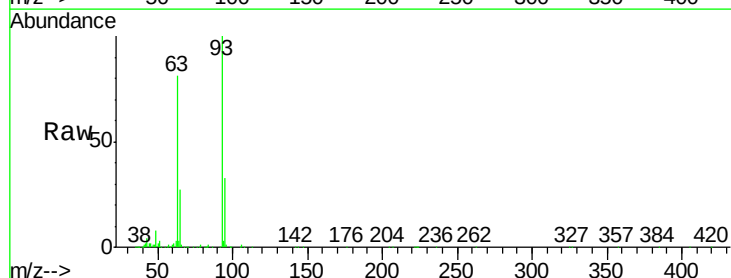
Tgt Ion: 93 Resp: 239309

Ion Ratio Lower Upper

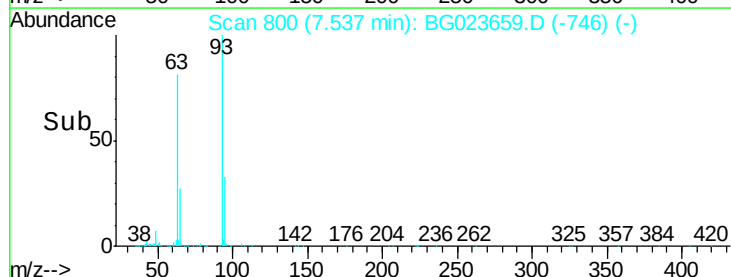
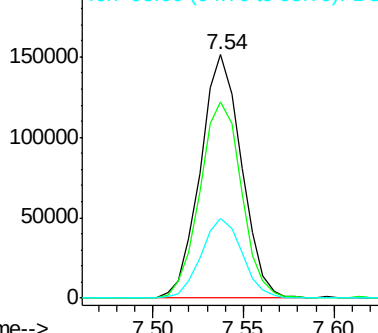
93 100

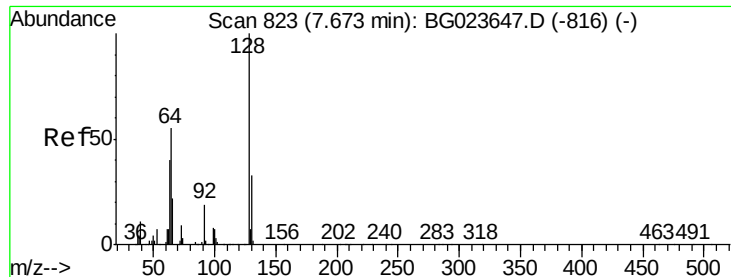
63 80.7 56.0 84.0

95 32.6 27.7 41.5



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

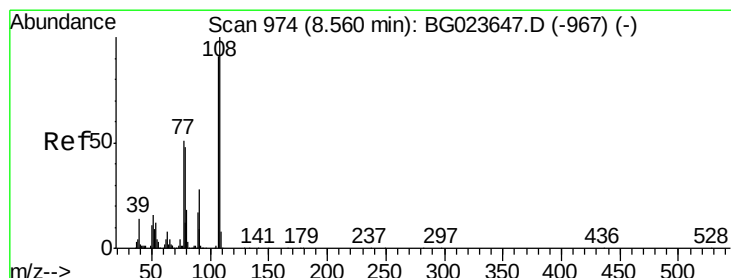
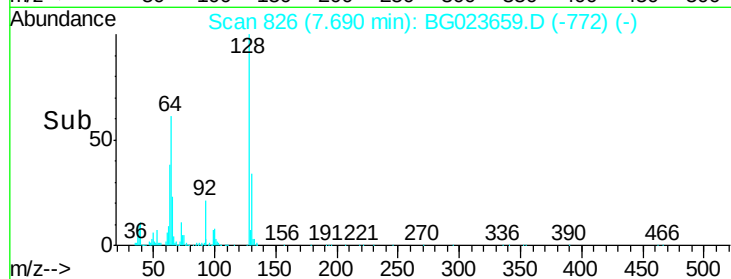
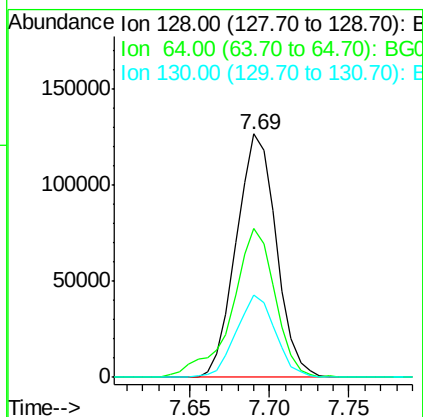
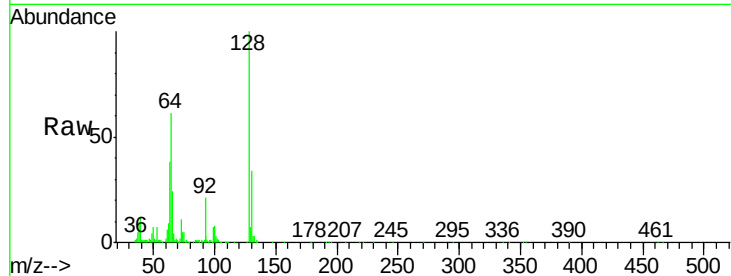




#10
 2-Chlorophenol
 Concen: 20.19 ng/ul
 RT: 7.69 min Scan# 826
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

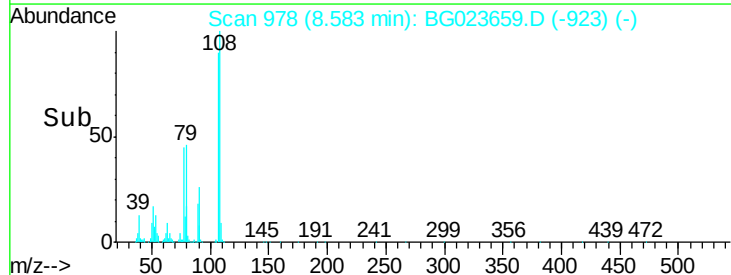
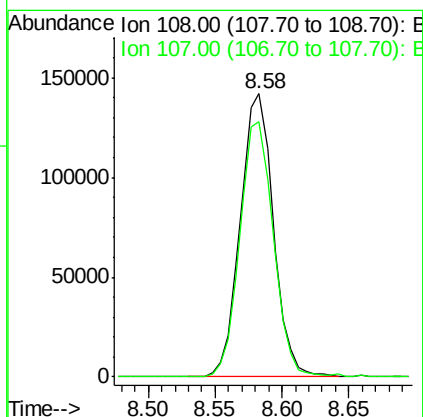
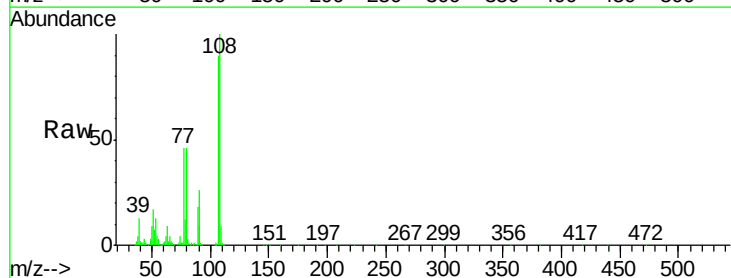
Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

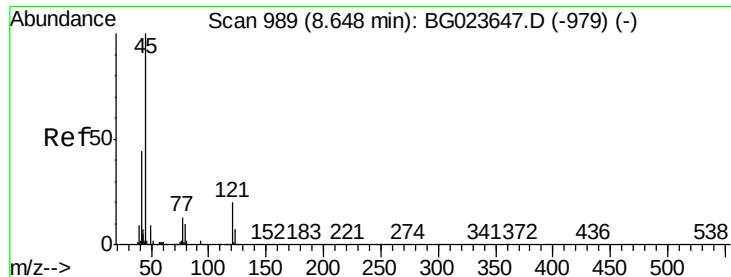
Tgt Ion	Ratio	Lower	Upper
128	100		
64	61.3	34.2	51.4#
130	34.0	27.0	40.4



#11
 2-Methylphenol
 Concen: 19.65 ng/ul
 RT: 8.58 min Scan# 978
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

Tgt Ion	Ratio	Lower	Upper
108	100		
107	90.2	78.6	117.8

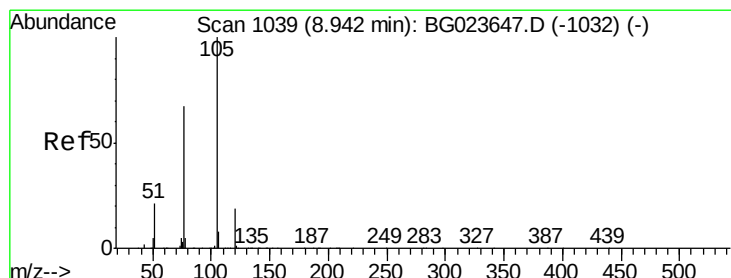
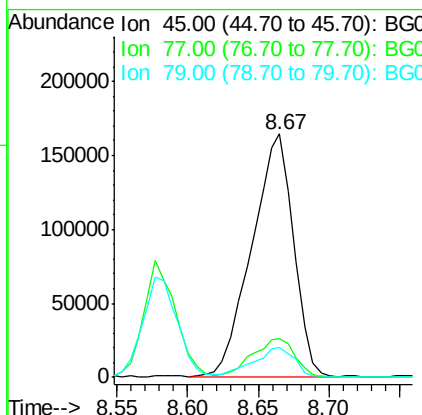
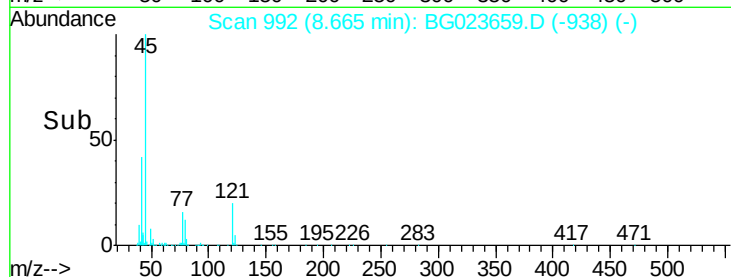
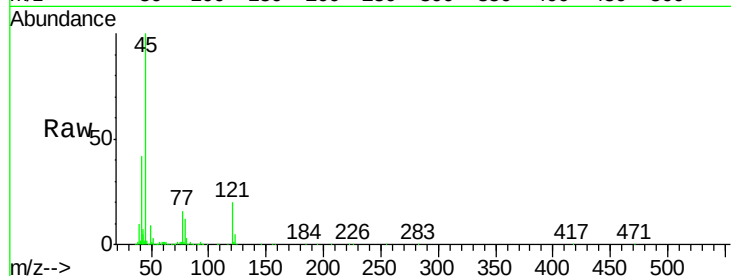




#12
 2,2'-oxybis(1-chloropropane)
 Concen: 20.73 ng/ul
 RT: 8.67 min Scan# 992
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

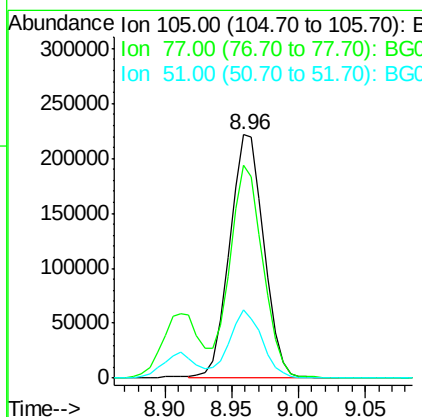
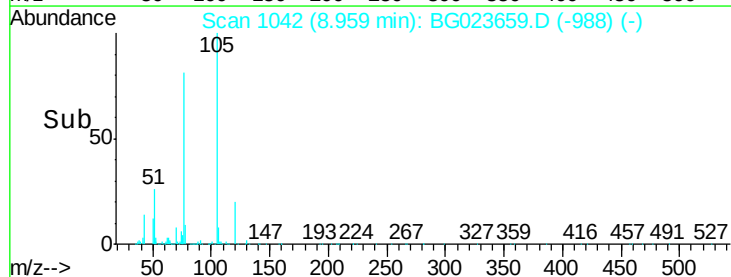
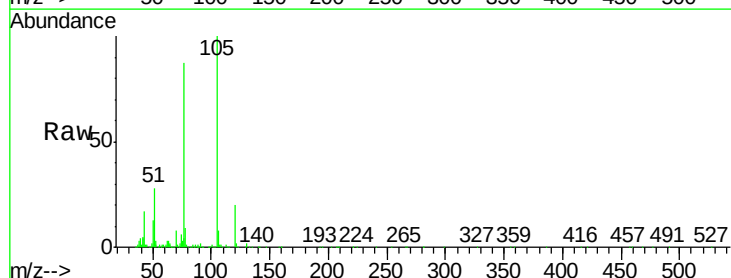
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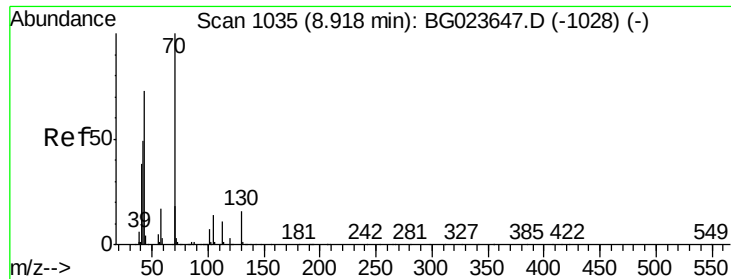
Tgt Ion: 45 Resp: 338172
 Ion Ratio Lower Upper
 45 100
 77 15.7 13.4 20.2
 79 12.1 10.2 15.4



#14
 Acetophenone
 Concen: 19.96 ng/ul
 RT: 8.96 min Scan# 1042
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

Tgt Ion: 105 Resp: 394269
 Ion Ratio Lower Upper
 105 100
 77 87.5 56.1 84.1#
 51 28.0 14.6 22.0#

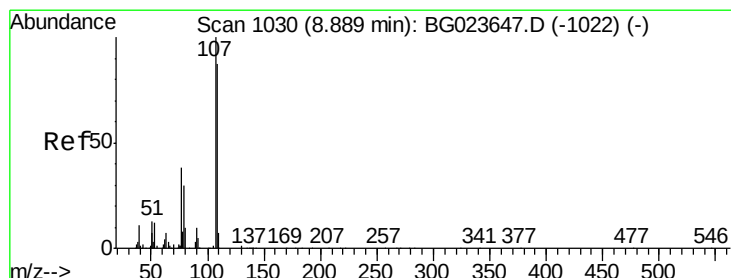
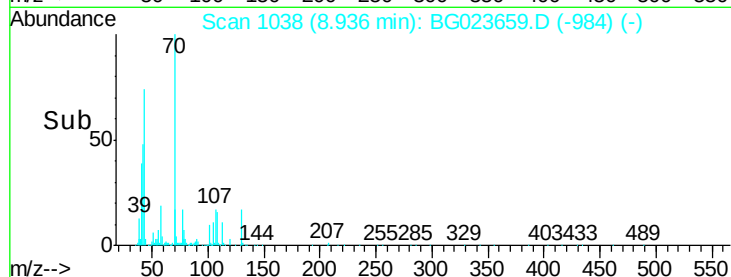
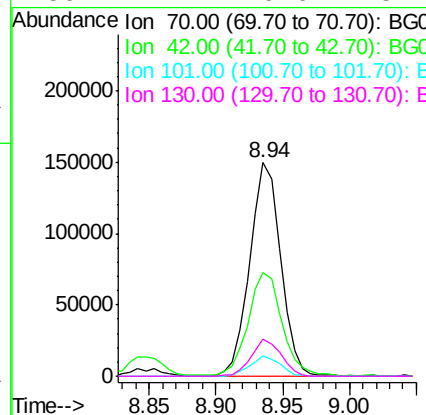
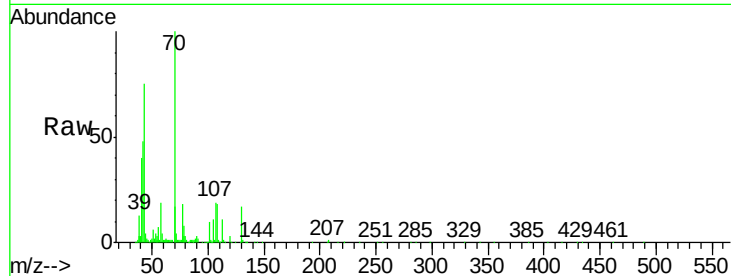




#15
N-Nitroso-di-n-propylamine
Concen: 20.09 ng/ul
RT: 8.94 min Scan# 1038
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

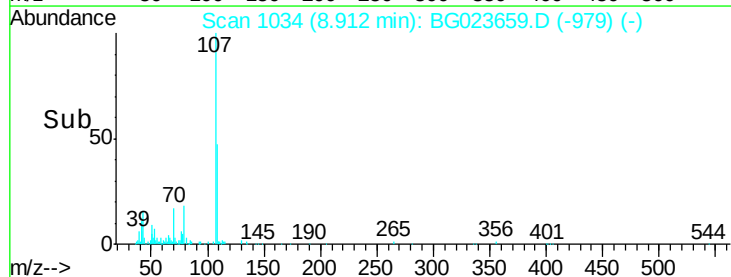
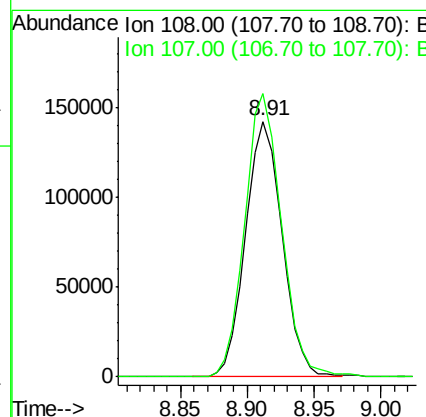
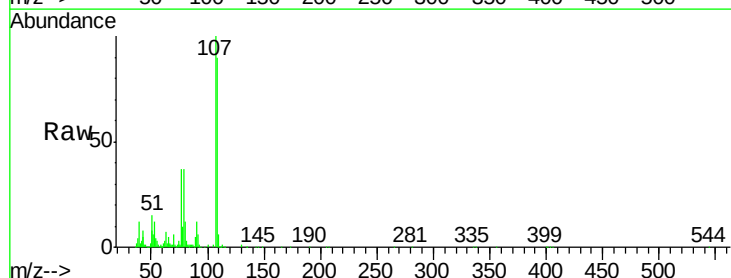
Instrument :
BNA_G
ClientSampleId :
SSTD02030

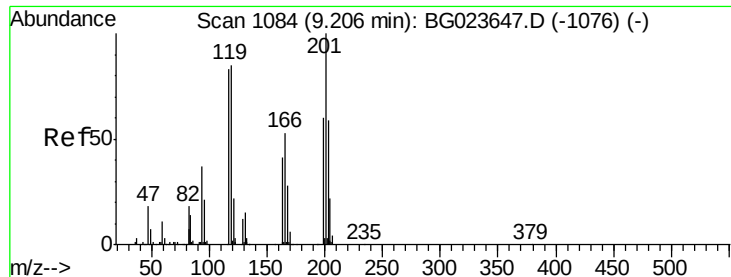
Tgt Ion	Ratio	Lower	Upper
70	100		
42	48.5	31.4	47.2#
101	9.7	8.6	13.0
130	17.4	19.0	28.4#



#16
4-Methylphenol
Concen: 19.48 ng/ul
RT: 8.91 min Scan# 1034
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

Tgt Ion	Ratio	Lower	Upper
108	100		
107	110.8	88.3	132.5





#17

Hexachloroethane

Concen: 20.95 ng/ul

RT: 9.22 min Scan# 1086

Delta R.T. 0.01 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

Instrument :

BNA_G

ClientSampleId :

SSTD02030

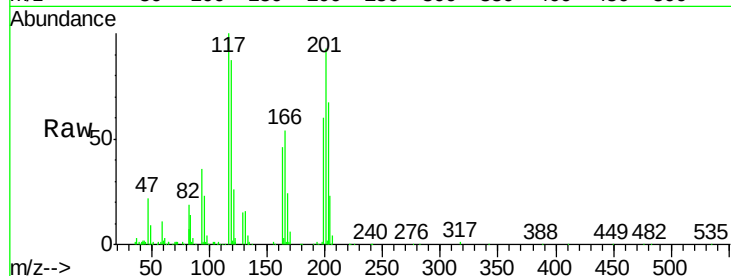
Tgt Ion: 117 Resp: 99089

Ion Ratio Lower Upper

117 100

201 93.3 76.8 115.2

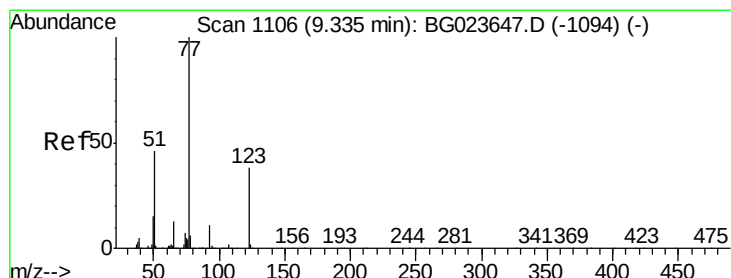
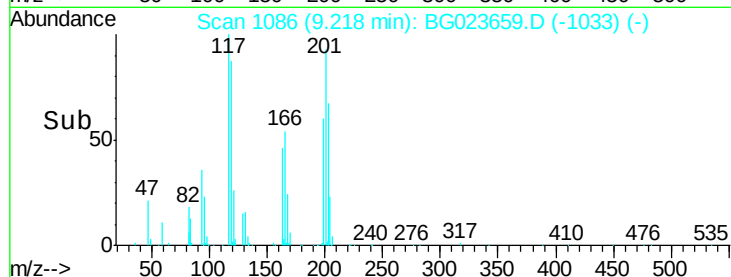
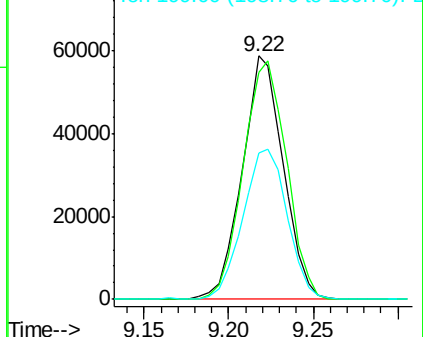
199 60.1 43.5 65.3



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: 20.58 ng/ul

RT: 9.35 min Scan# 1109

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

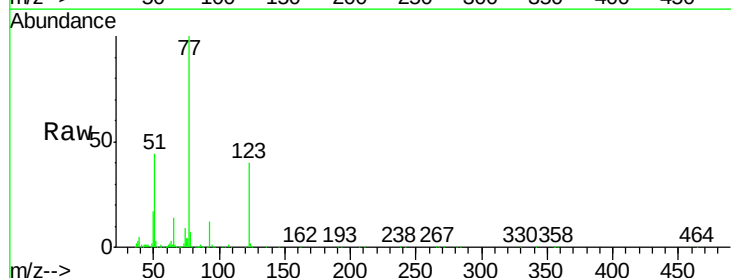
Tgt Ion: 77 Resp: 330991

Ion Ratio Lower Upper

77 100

123 40.3 39.5 59.3

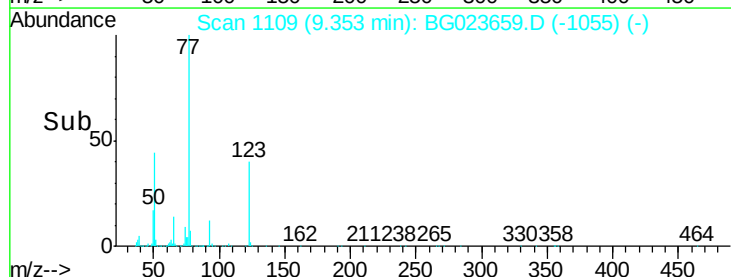
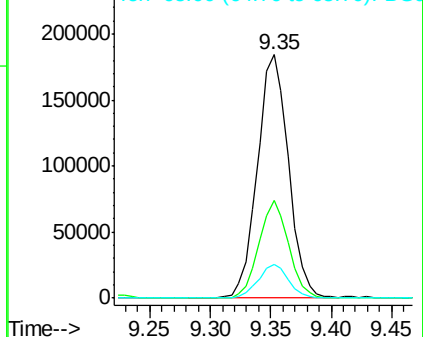
65 13.8 9.0 13.4#

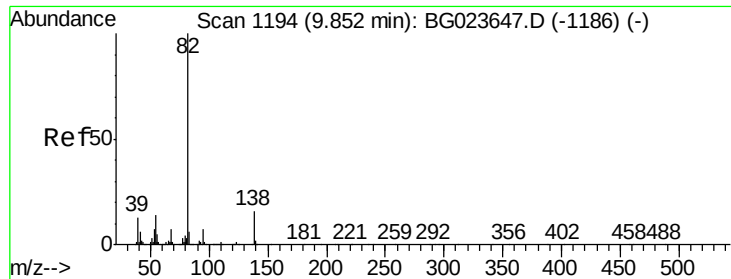


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#21

Isophorone

Concen: 21.03 ng/ul

RT: 9.88 min Scan# 1198

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

Instrument :

BNA_G

ClientSampleId :

SSTD02030

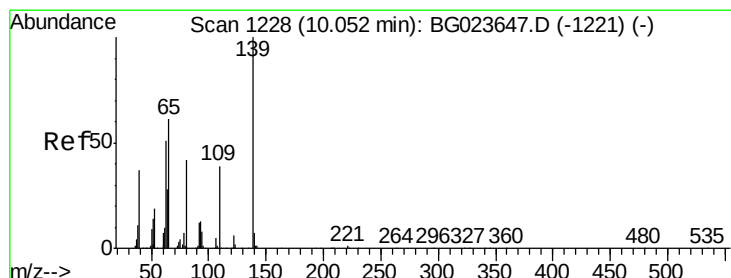
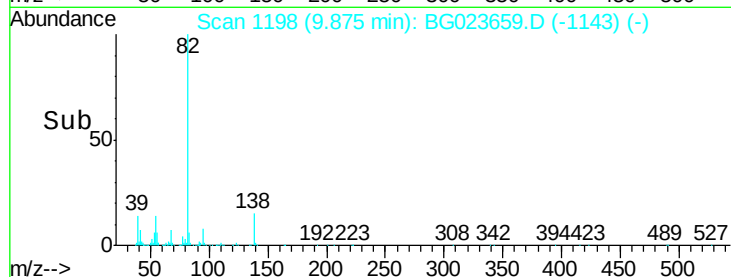
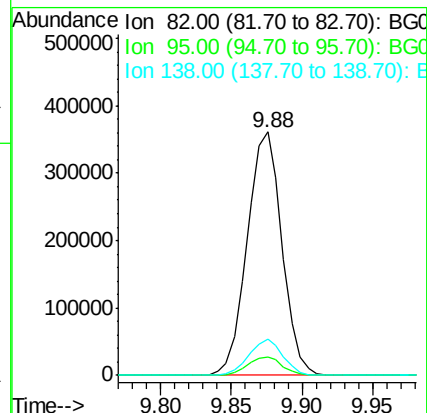
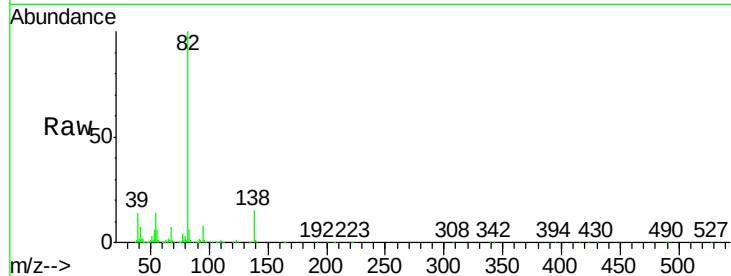
Tgt Ion: 82 Resp: 622018

Ion Ratio Lower Upper

82 100

95 7.5 5.1 7.7

138 14.7 15.0 22.6#



#23

2-Nitrophenol

Concen: 21.13 ng/ul

RT: 10.07 min Scan# 1231

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

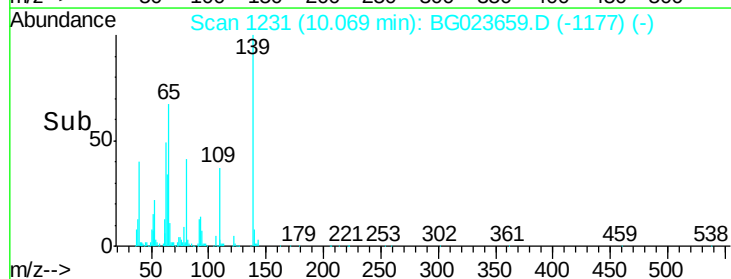
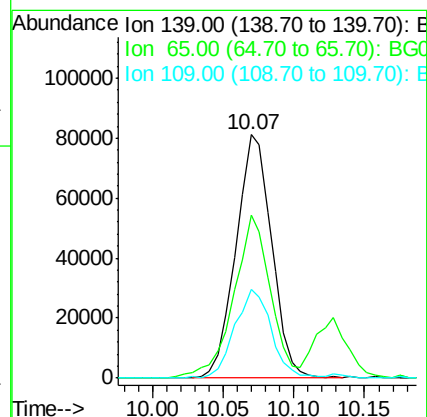
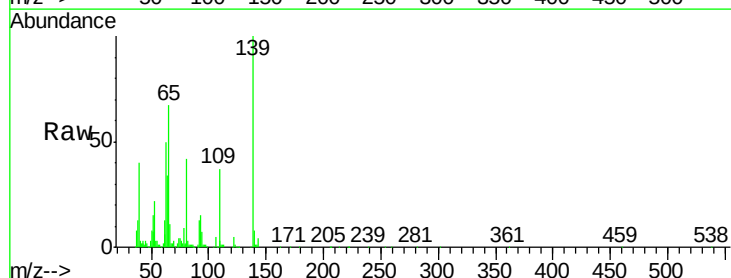
Tgt Ion: 139 Resp: 143766

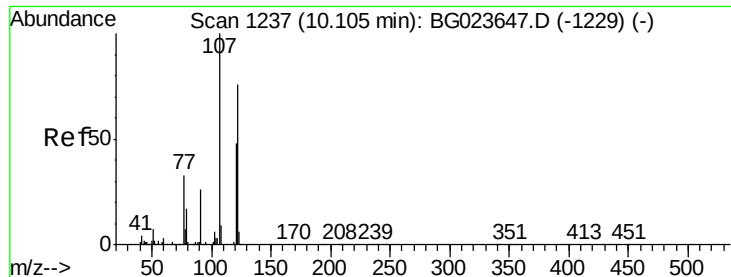
Ion Ratio Lower Upper

139 100

65 66.7 31.8 47.8#

109 36.6 17.1 25.7#

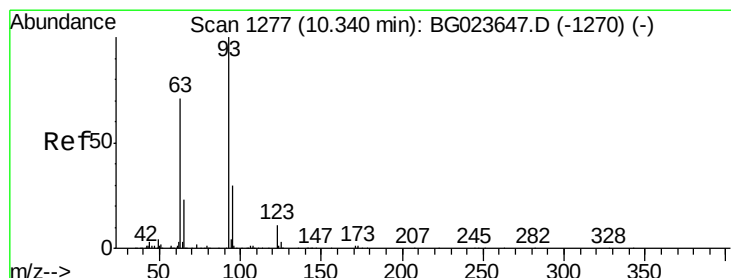
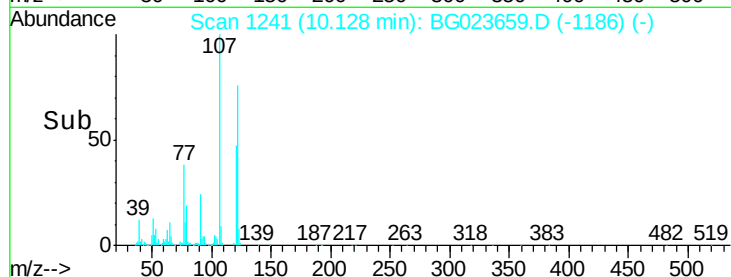
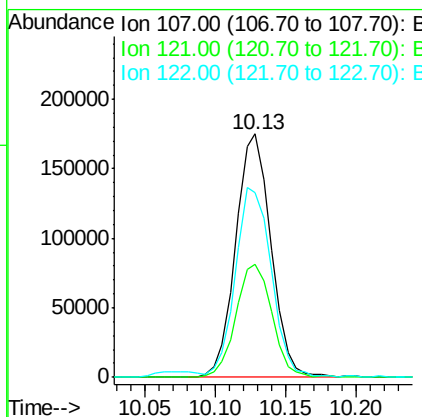
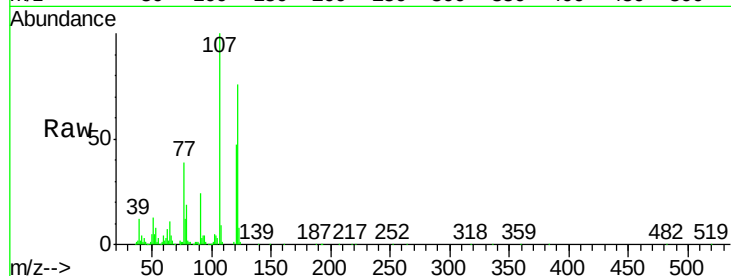




#24
2,4-Dimethylphenol
Concen: 20.56 ng/ul
RT: 10.13 min Scan# 1241
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

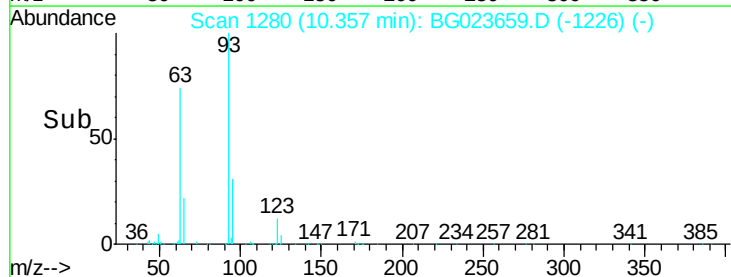
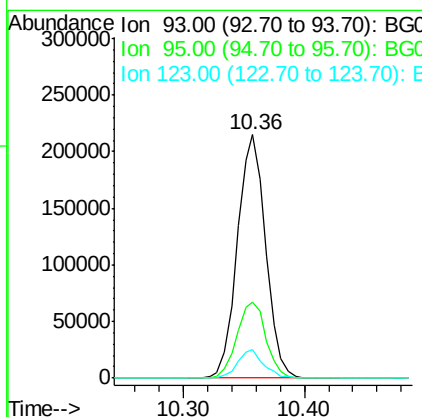
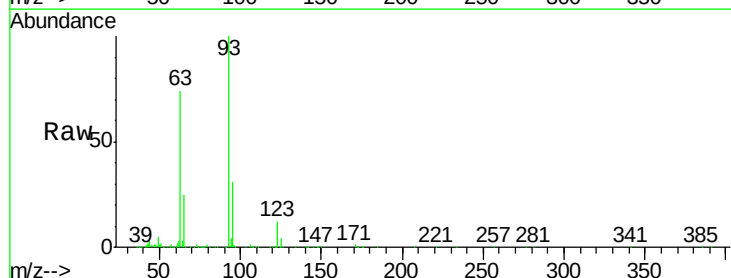
Instrument :
BNA_G
ClientSampleId :
SSTD02030

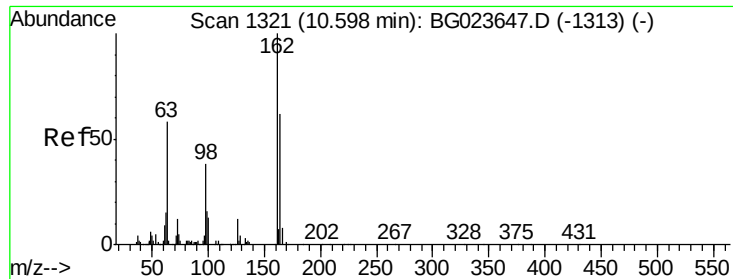
Tgt Ion: 107 Resp: 306910
Ion Ratio Lower Upper
107 100
121 46.7 43.7 65.5
122 76.1 70.3 105.5



#25
Bis(2-Chloroethoxy)methane
Concen: 20.55 ng/ul
RT: 10.36 min Scan# 1280
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

Tgt Ion: 93 Resp: 350531
Ion Ratio Lower Upper
93 100
95 31.1 26.0 39.0
123 11.7 10.1 15.1

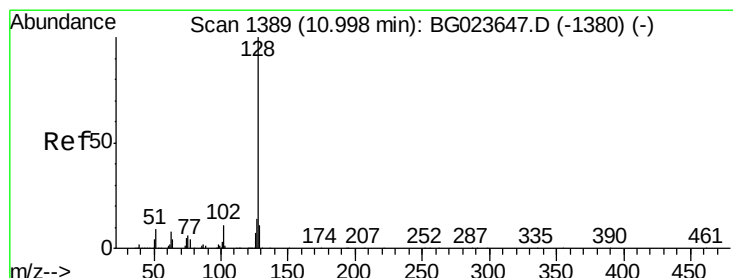
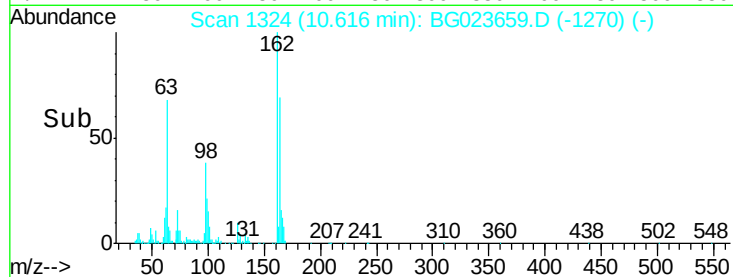
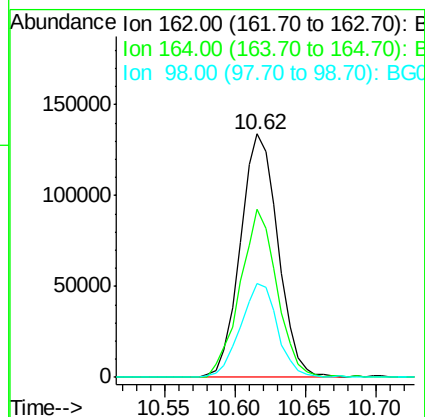
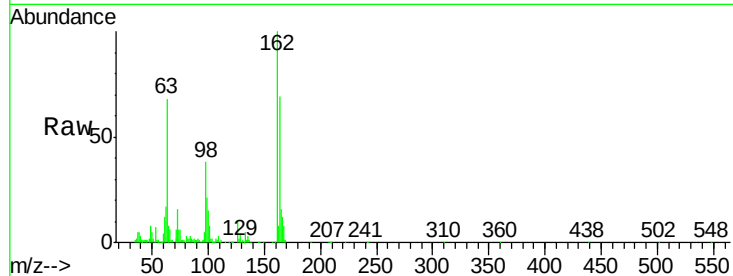




#27
 2,4-Dichlorophenol
 Concen: 20.85 ng/ul
 RT: 10.62 min Scan# 1324
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

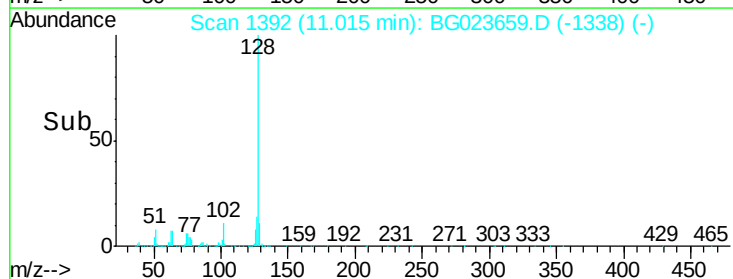
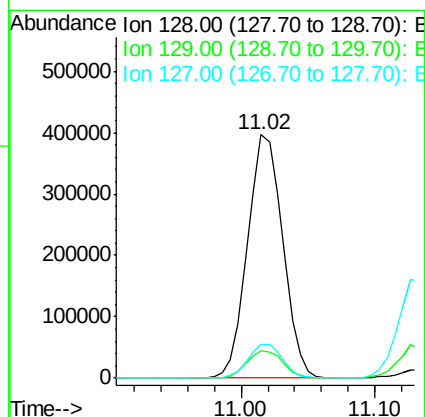
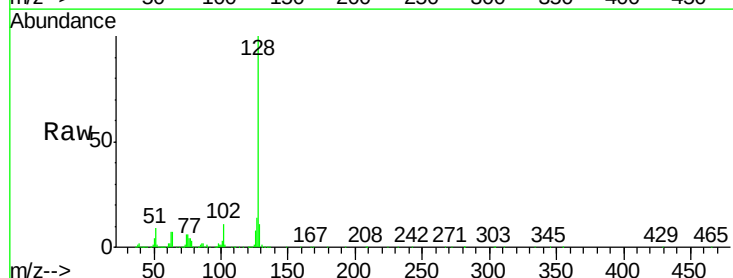
Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

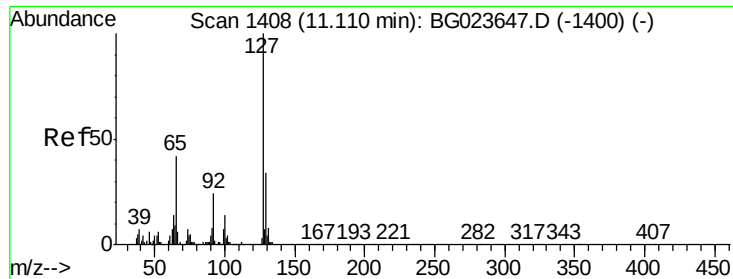
Tgt Ion:	162	Resp:	249848
Ion	Ratio	Lower	Upper
162	100		
164	69.2	51.6	77.4
98	38.5	28.3	42.5



#28
 Naphthalene
 Concen: 20.46 ng/ul
 RT: 11.02 min Scan# 1392
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

Tgt Ion:	128	Resp:	722928
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.4	14.2
127	13.7	11.2	16.8

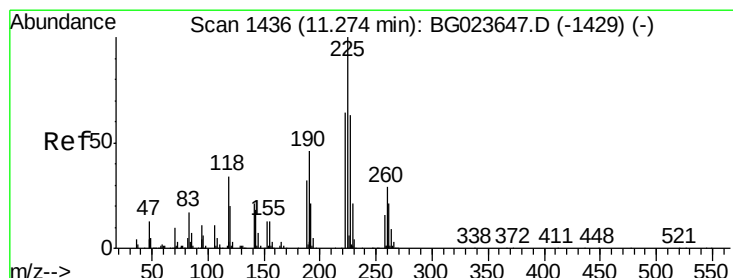
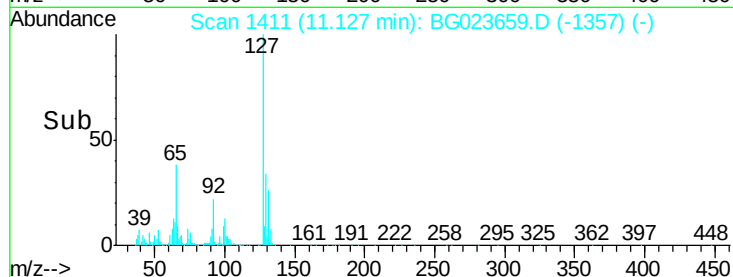
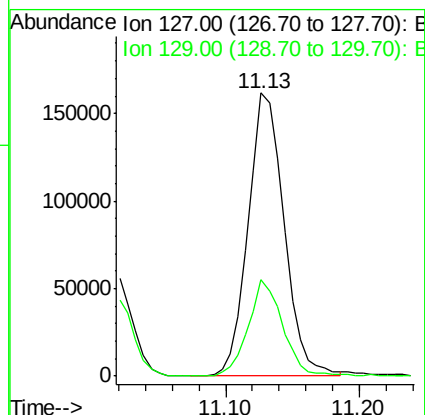
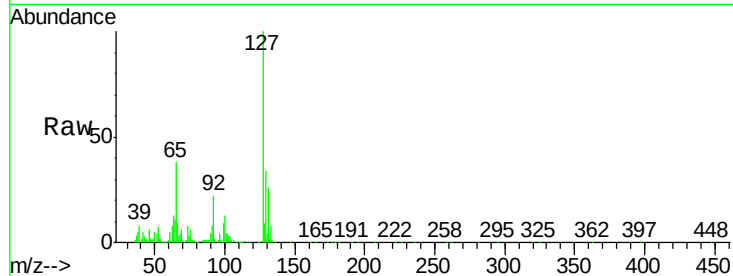




#30
4-Chloroaniline
Concen: 21.76 ng/ul
RT: 11.13 min Scan# 1411
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

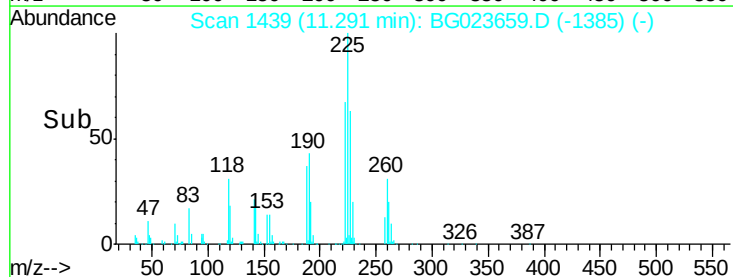
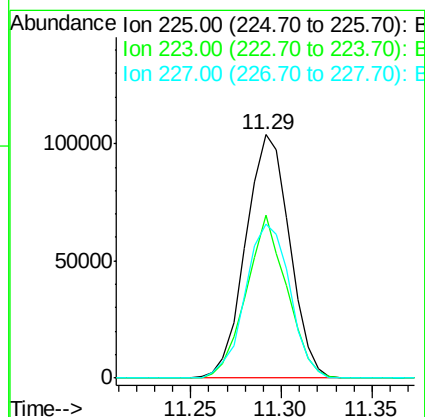
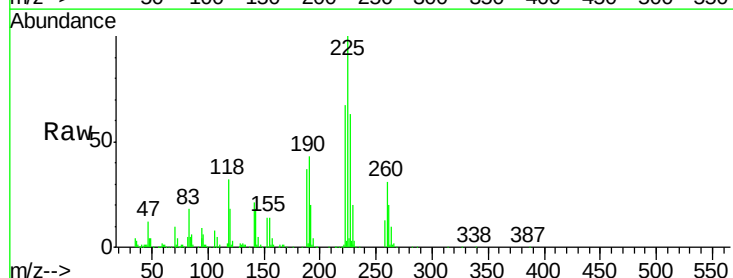
Instrument :
BNA_G
ClientSampleId :
SSTD02030

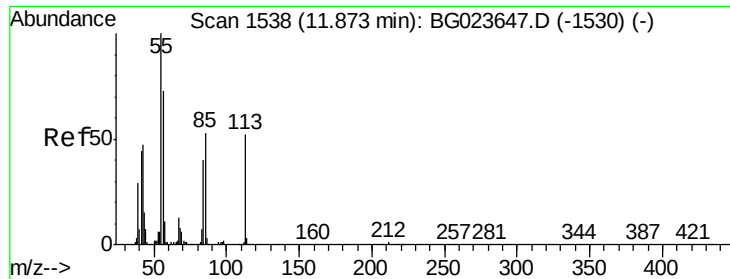
Tgt Ion:127 Resp: 301103
Ion Ratio Lower Upper
127 100
129 34.0 26.9 40.3



#31
Hexachlorobutadiene
Concen: 21.88 ng/ul
RT: 11.29 min Scan# 1439
Delta R.T. 0.02 min
Lab File: BG023659.D
Acq: 12 Aug 2016 17:09

Tgt Ion:225 Resp: 174648
Ion Ratio Lower Upper
225 100
223 67.1 54.7 82.1
227 63.4 52.2 78.4

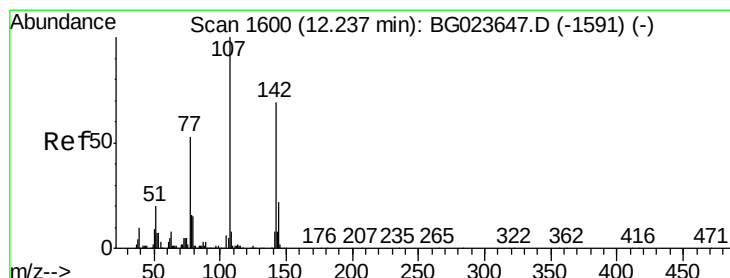
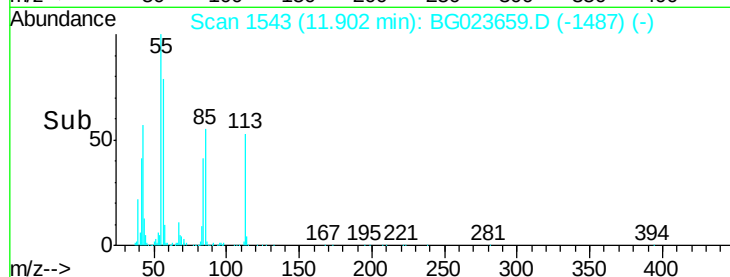
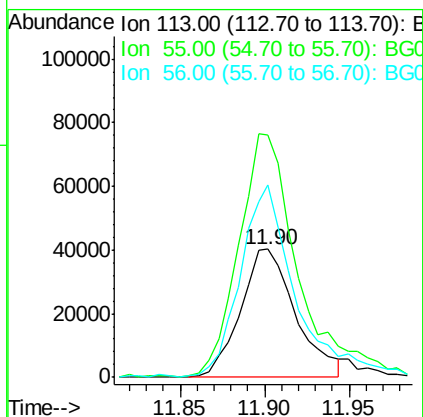
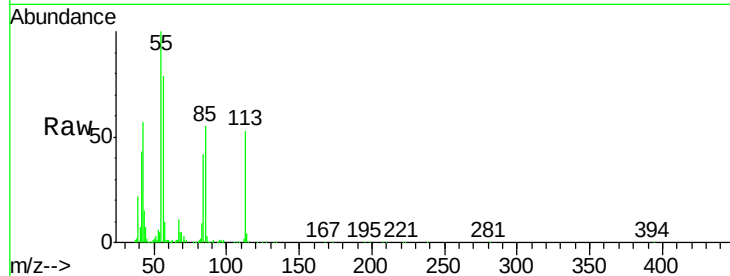




#32
 Caprolactam
 Concen: 18.35 ng/ul
 RT: 11.90 min Scan# 1543
 Delta R.T. 0.03 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

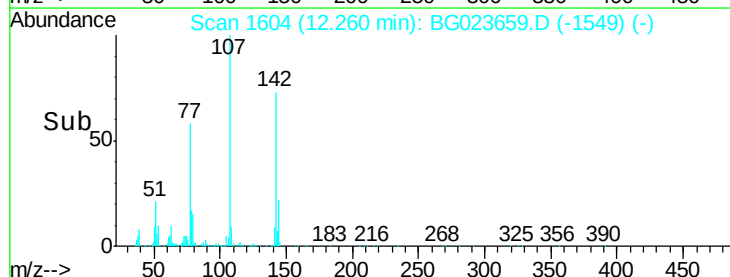
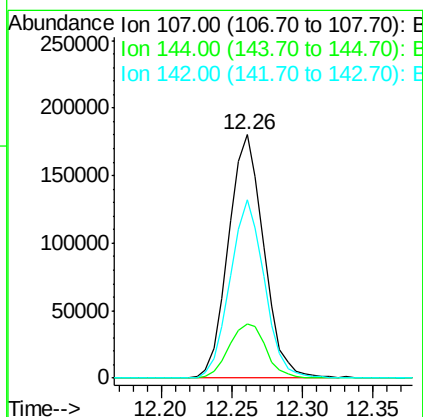
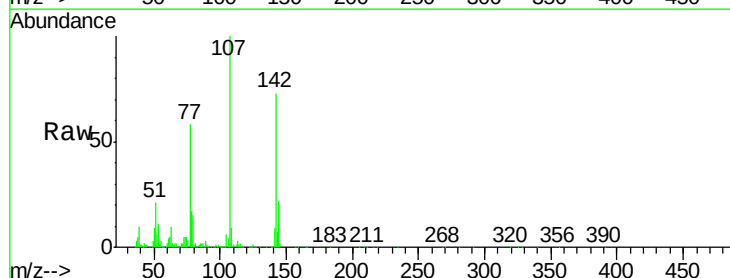
Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

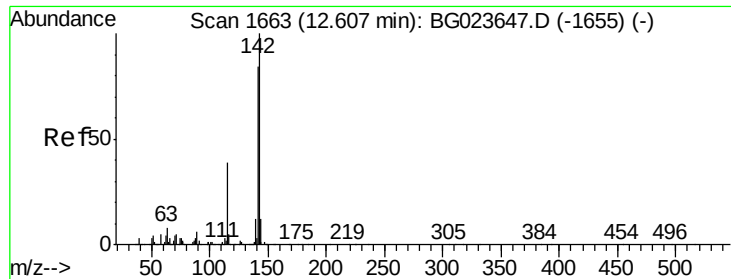
Tgt Ion:113 Resp: 91328
 Ion Ratio Lower Upper
 113 100
 55 189.5 99.6 149.4#
 56 150.5 66.4 99.6#



#33
 4-Chloro-3-methylphenol
 Concen: 20.22 ng/ul
 RT: 12.26 min Scan# 1604
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

Tgt Ion:107 Resp: 311810
 Ion Ratio Lower Upper
 107 100
 144 22.2 22.7 34.1#
 142 73.4 71.6 107.4

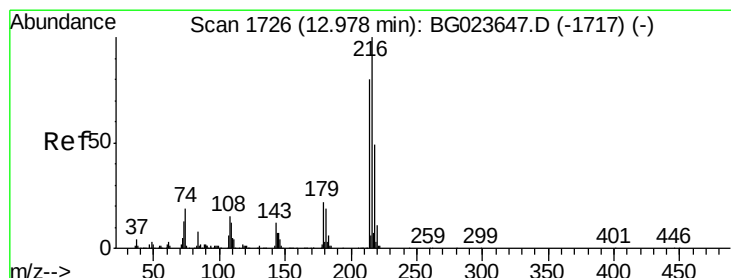
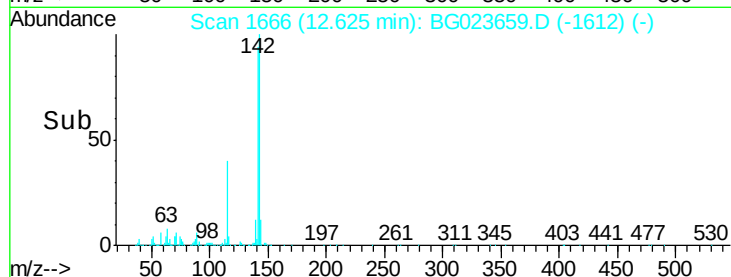
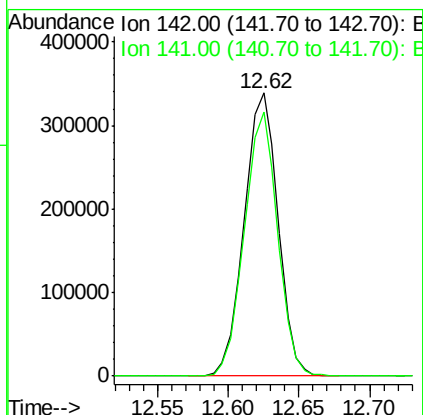
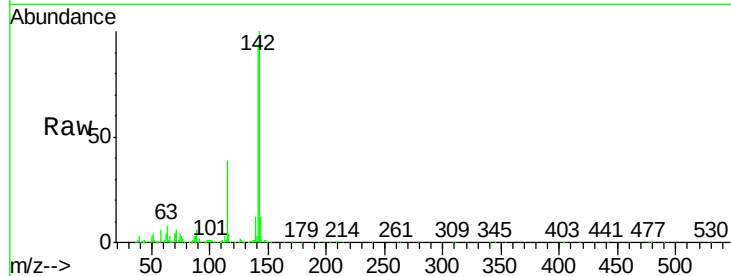




#34
 2-Methylnaphthalene
 Concen: 19.88 ng/ul
 RT: 12.62 min Scan# 1666
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

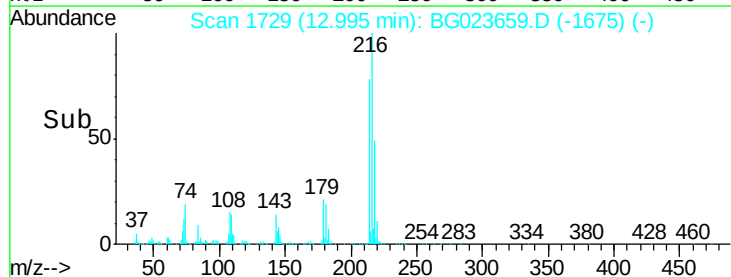
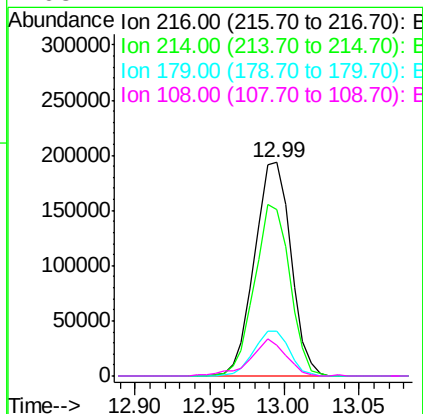
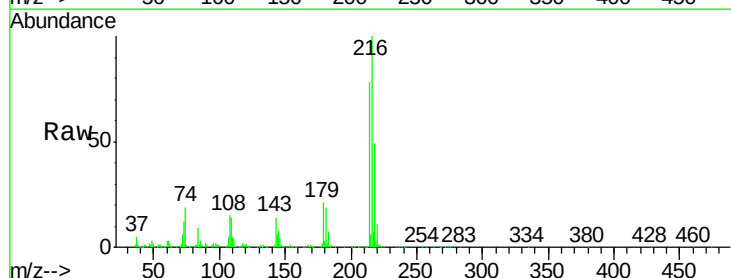
Instrument :
 BNA_G
 ClientSampleId :
 SSTD02030

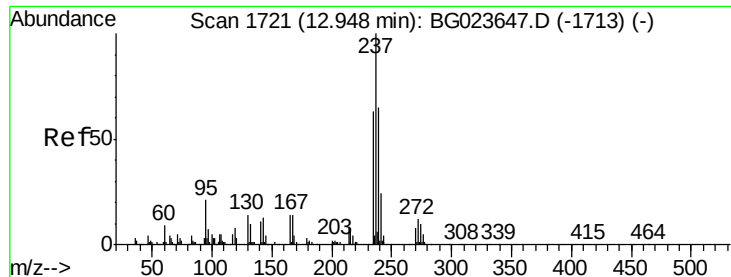
Tgt Ion:142 Resp: 569658
 Ion Ratio Lower Upper
 142 100
 141 93.1 75.2 112.8



#36
 1,2,4,5-Tetrachlorobenzene
 Concen: 22.28 ng/ul
 RT: 12.99 min Scan# 1729
 Delta R.T. 0.02 min
 Lab File: BG023659.D
 Acq: 12 Aug 2016 17:09

Tgt Ion:216 Resp: 327162
 Ion Ratio Lower Upper
 216 100
 214 77.9 61.7 92.5
 179 20.8 17.0 25.4
 108 14.7 14.2 21.2





#37

Hexachlorocyclopentadiene

Concen: 19.92 ng/ul

RT: 12.96 min Scan# 1723

Delta R.T. 0.01 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

Instrument :

BNA_G

ClientSampleId :

SSTD02030

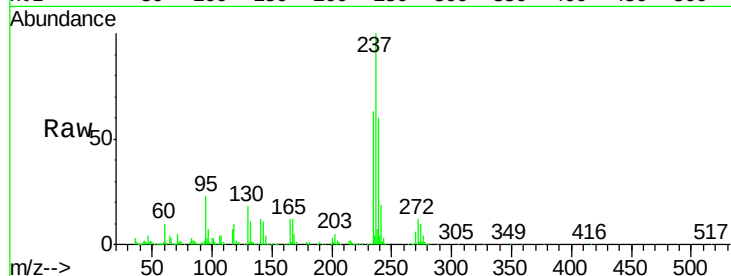
Tgt Ion:237 Resp: 161775

Ion Ratio Lower Upper

237 100

235 62.7 49.6 74.4

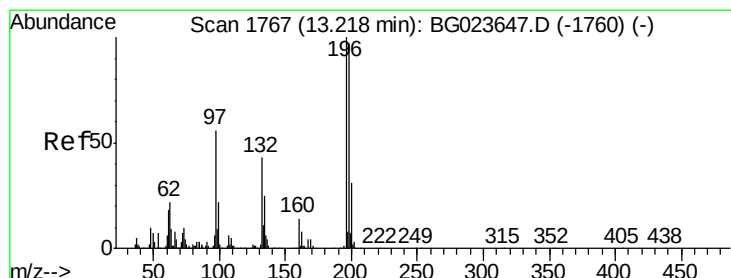
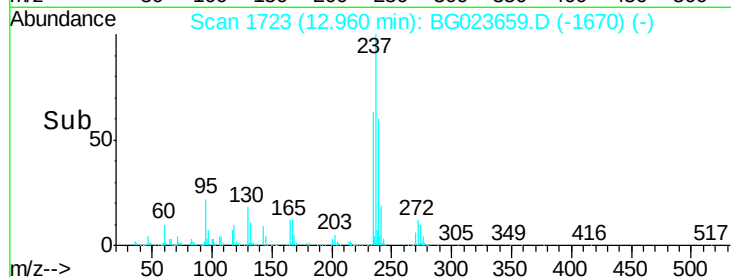
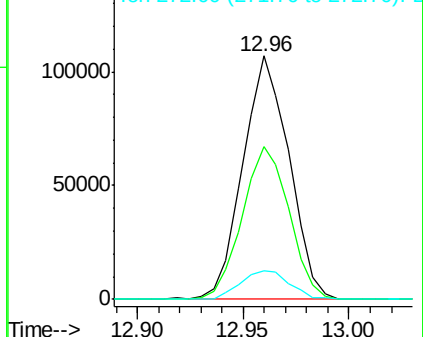
272 11.9 9.3 13.9



Abundance Ion 237.00 (236.70 to 237.70): E

Ion 235.00 (234.70 to 235.70): E

Ion 272.00 (271.70 to 272.70): E



#38

2,4,6-Trichlorophenol

Concen: 22.44 ng/ul

RT: 13.24 min Scan# 1770

Delta R.T. 0.02 min

Lab File: BG023659.D

Acq: 12 Aug 2016 17:09

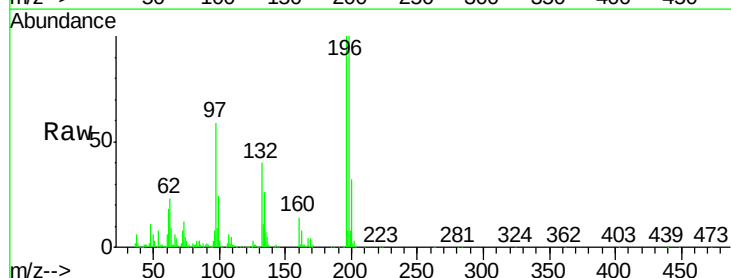
Tgt Ion:196 Resp: 228181

Ion Ratio Lower Upper

196 100

198 99.7 77.4 116.0

200 32.5 26.6 39.8



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

