

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG010917\
 Data File : BG025442.D
 Acq On : 9 Jan 2017 22:47
 Operator : UM/SJ
 Sample : I1073-02MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 L-SWITCH-SP-0-2-COMPMSD

Quant Time: Jan 10 00:05:29 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 18:42:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	55982	20.00	ng	-0.02
21) Naphthalene-d8	11.03	136	225672	20.00	ng	-0.01
38) Acenaphthene-d10	14.83	164	184743	20.00	ng	-0.01
63) Phenanthrene-d10	17.57	188	443675	20.00	ng	-0.01
75) Chrysene-d12	21.86	240	632836	20.00	ng	-0.02
86) Perylene-d12	25.26	264	629596	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.74	112	475459	154.38	ng	-0.01
7) Phenol-d6	7.36	99	624171	143.90	ng	-0.01
23) Nitrobenzene-d5	9.38	82	522566	102.30	ng	-0.02
41) 2,4,6-Tribromophenol	16.32	330	447746	150.54	ng	-0.01
44) 2-Fluorobiphenyl	13.45	172	1127027	98.77	ng	-0.01
78) Terphenyl-d14	20.15	244	2172799	91.03	ng	-0.01

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.58	88	54417	41.41	ng	# 56
3) Pyridine	4.01	79	136808	35.91	ng	94
4) n-Nitrosodimethylamine	3.91	42	109290	48.33	ng	95
6) Aniline	7.53	93	102725	17.48	ng	97
8) 2-Chlorophenol	7.77	128	165810	47.72	ng	97
9) Benzaldehyde	7.35	77	15221	4.80	ng	87
10) Phenol	7.39	94	211922	44.07	ng	97
11) bis(2-Chloroethyl)ether	7.61	93	171987	46.42	ng	94
12) 1,3-Dichlorobenzene	8.08	146	196800	46.81	ng	94
13) 1,4-Dichlorobenzene	8.23	146	196221	45.03	ng	96
14) 1,2-Dichlorobenzene	8.55	146	192806	46.37	ng	96
15) Benzyl Alcohol	8.44	79	197101	47.60	ng	92
16) 2,2'-oxybis(1-Chloropropan	8.72	45	314747	45.87	ng	92
17) 2-Methylphenol	8.65	107	153804	48.71	ng	92
18) Hexachloroethane	9.28	117	75765	45.28	ng	# 87
19) n-Nitroso-di-n-propylamine	9.01	70	173888	47.46	ng	# 98
20) 3+4-Methylphenols	8.98	107	210699	48.21	ng	96
22) Acetophenone	9.04	105	291219	46.45	ng	# 96
24) Nitrobenzene	9.42	77	271672	48.49	ng	# 91
25) Isophorone	9.94	82	479223	51.81	ng	98
26) 2-Nitrophenol	10.14	139	102715	47.93	ng	91
27) 2,4-Dimethylphenol	10.19	122	185225	52.58	ng	97
28) bis(2-Chloroethoxy)methane	10.42	93	249288	51.90	ng	98
29) 2,4-Dichlorophenol	10.69	162	194430	51.57	ng	96
30) 1,2,4-Trichlorobenzene	10.89	180	205822	45.19	ng	95
31) Naphthalene	11.08	128	530572	47.08	ng	99
32) Benzoic acid	10.34	122	92685	32.71	ng	92
34) Hexachlorobutadiene	11.33	225	172162	46.31	ng	98
35) Caprolactam	11.98	113	27633	19.51	ng	97
36) 4-Chloro-3-methylphenol	12.31	107	233366	50.15	ng	99
37) 2-Methylnaphthalene	12.67	142	417700	50.01	ng	99
39) 1,2,4,5-Tetrachlorobenzene	13.03	216	289038	47.39	ng	# 97
40) Hexachlorocyclopentadiene	12.99	237	276530	119.43	ng	92
42) 2,4,6-Trichlorophenol	13.28	196	180459	46.99	ng	99

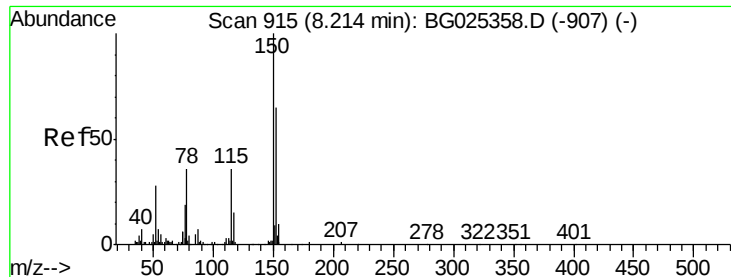
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,5-Trichlorophenol	13.37	196	190657	47.43	ng	# 90
45) 1,1'-Biphenyl	13.66	154	599987	48.28	ng	99
46) 2-Chloronaphthalene	13.71	162	459313	47.31	ng	97
47) 2-Nitroaniline	13.93	65	194003	47.34	ng	95
48) Acenaphthylene	14.55	152	725852	48.24	ng	98
49) Dimethylphthalate	14.27	163	675823	50.18	ng	98
50) 2,6-Dinitrotoluene	14.41	165	143272	48.69	ng	98
51) Acenaphthene	14.89	154	458718	46.61	ng	97
52) 3-Nitroaniline	14.76	138	21440	7.58	ng	# 79
53) 2,4-Dinitrophenol	14.97	184	189295	96.96	ng	# 83
54) Dibenzofuran	15.22	168	781767	50.25	ng	99
55) 4-Nitrophenol	15.07	139	196382	92.96	ng	93
56) 2,4-Dinitrotoluene	15.20	165	220173	51.39	ng	# 92
57) Fluorene	15.87	166	636421	48.86	ng	99
58) 2,3,4,6-Tetrachlorophenol	15.45	232	213947	49.68	ng	93
59) Diethylphthalate	15.62	149	696663	49.33	ng	99
60) 4-Chlorophenyl-phenylether	15.85	204	354351	48.00	ng	94
61) 4-Nitroaniline	15.92	138	102728	36.09	ng	88
62) Azobenzene	16.14	77	727546	53.42	ng	97
64) 4,6-Dinitro-2-methylphenol	15.97	198	145734	47.43	ng	90
65) n-Nitrosodiphenylamine	16.07	169	560592	46.75	ng	97
66) 4-Bromophenyl-phenylether	16.74	248	261296	47.74	ng	93
67) Hexachlorobenzene	16.87	284	294335	46.86	ng	90
68) Atrazine	17.01	200	198021	37.69	ng	99
69) Pentachlorophenol	17.23	266	319982	98.27	ng	98
70) Phenanthrene	17.61	178	1099432	48.09	ng	97
71) Anthracene	17.71	178	1133982	48.81	ng	99
72) Carbazole	17.98	167	955113	45.96	ng	96
73) Di-n-butylphthalate	18.50	149	1241880	48.58	ng	97
74) Fluoranthene	19.61	202	1470915	48.71	ng	95
77) Pyrene	19.98	202	1499306	45.33	ng	100
79) Butylbenzylphthalate	20.82	149	622307	46.86	ng	94
80) Benzo(a)anthracene	21.84	228	1656841	46.94	ng	98
81) 3,3'-Dichlorobenzidine	21.76	252	43786	3.19	ng	95
82) Chrysene	21.91	228	1534358	45.33	ng	98
83) Bis(2-ethylhexyl)phthalate	21.69	149	892686	48.30	ng	97
84) Di-n-octyl phthalate	22.94	149	1511549	49.26	ng	96
85) Indeno(1,2,3-cd)pyrene	29.18	276	2026722	47.10	ng	# 96
87) Benzo(b)fluoranthene	24.18	252	1706749	49.68	ng	# 97
88) Benzo(k)fluoranthene	24.25	252	1686220	50.83	ng	# 97
89) Benzo(a)pyrene	25.11	252	1658719	50.00	ng	# 98
90) Dibenzo(a,h)anthracene	29.23	278	1719487	48.90	ng	97
91) Benzo(g,h,i)perylene	30.42	276	1618495	46.32	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.20 min Scan# 912

Delta R.T. -0.02 min

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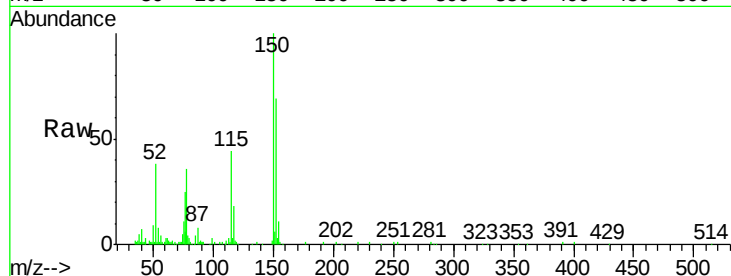
Tgt Ion:152 Resp: 55982

Ion Ratio Lower Upper

152 100

150 144.6 114.0 171.0

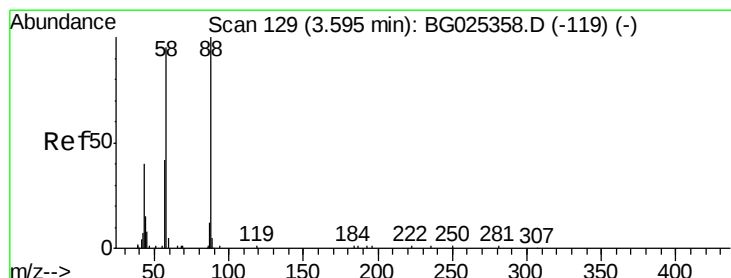
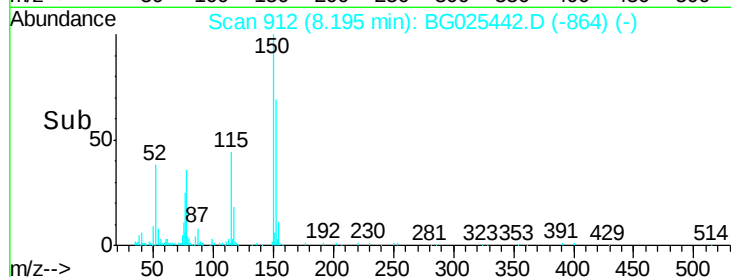
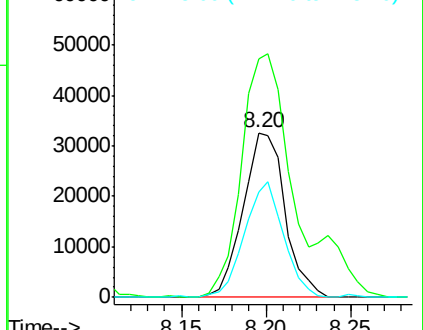
115 64.0 48.1 72.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 41.41 ng

RT: 3.58 min Scan# 127

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

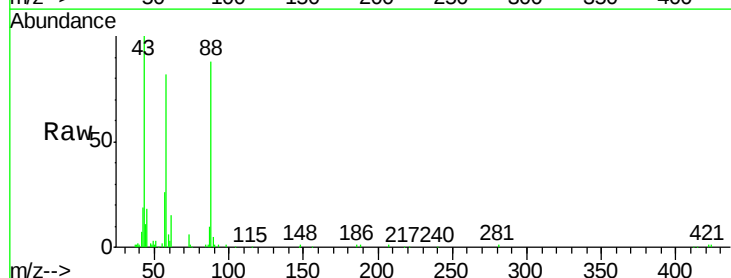
Tgt Ion: 88 Resp: 54417

Ion Ratio Lower Upper

88 100

58 95.9 79.4 119.2

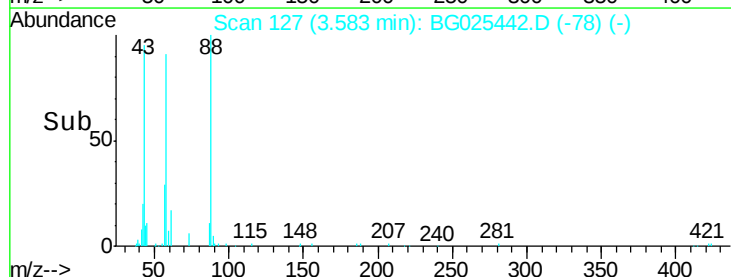
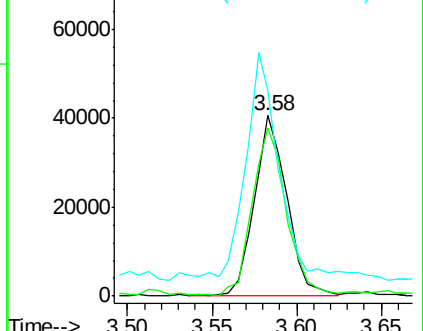
43 130.5 33.8 50.6#

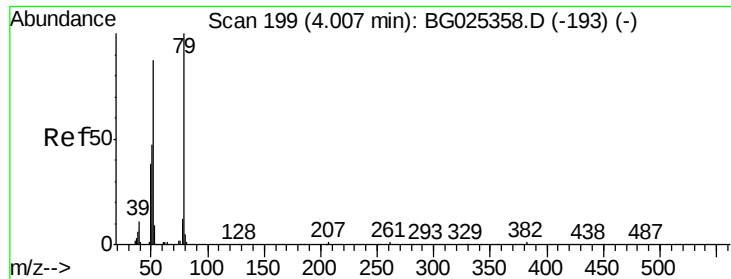


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 35.91 ng

RT: 4.01 min Scan# 199

Delta R.T. -0.00 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

Instrument :

BNA_G

ClientSampleId :

L-SWITCH-SP-0-2-COMPMSD

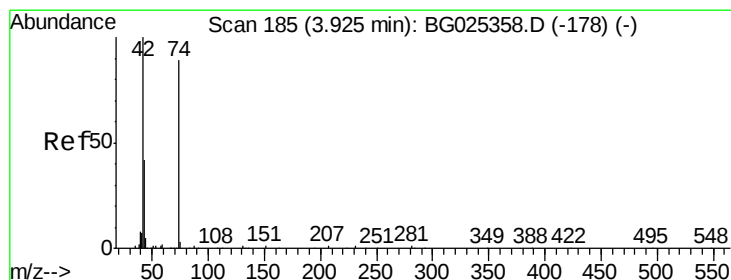
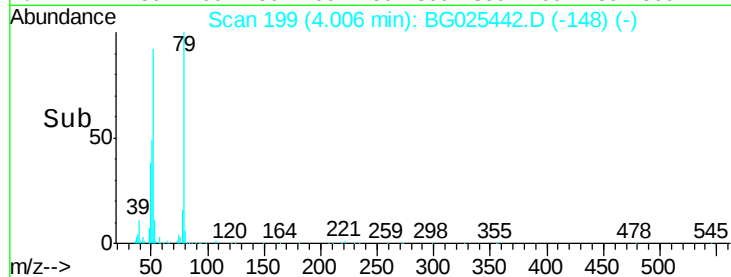
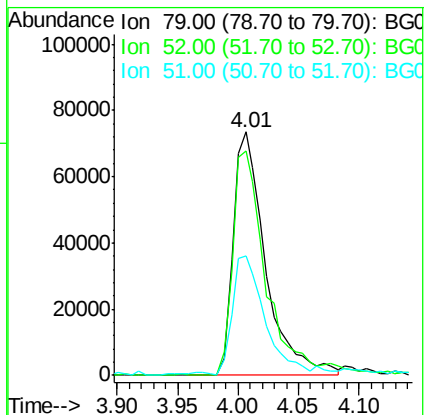
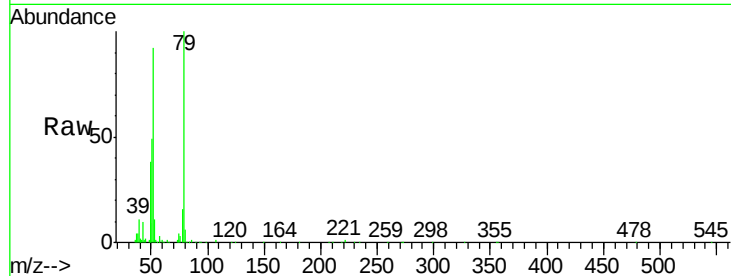
Tgt Ion: 79 Resp: 136808

Ion Ratio Lower Upper

79 100

52 92.4 77.8 116.6

51 49.0 43.2 64.8



#4

n-Nitrosodimethylamine

Concen: 48.33 ng

RT: 3.91 min Scan# 183

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

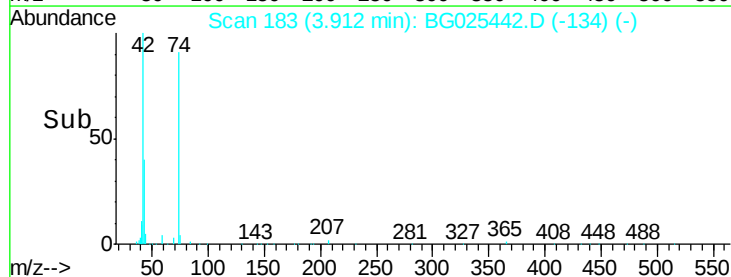
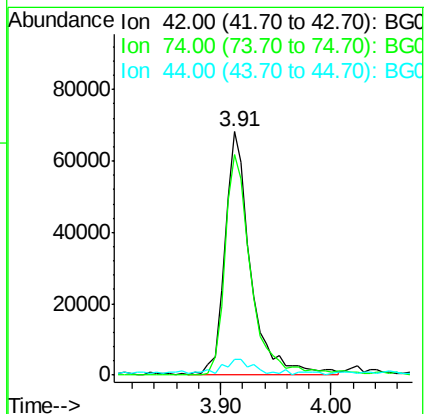
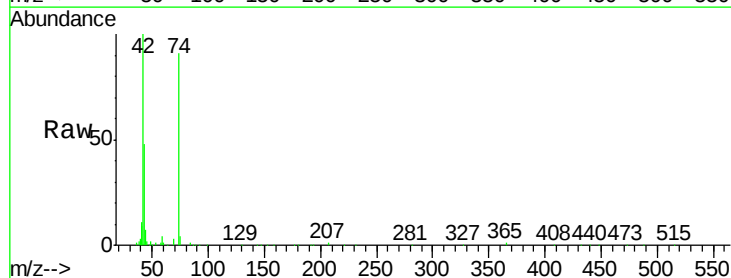
Tgt Ion: 42 Resp: 109290

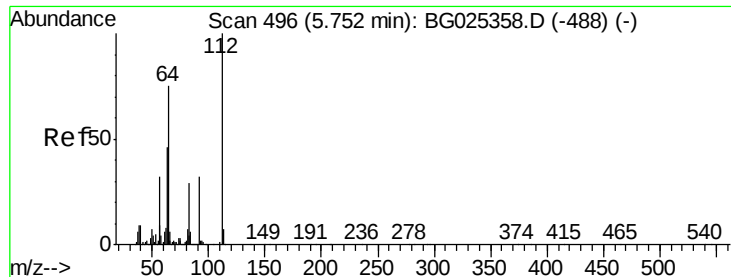
Ion Ratio Lower Upper

42 100

74 90.6 76.7 115.1

44 6.5 6.1 9.1





#5

2-Fluorophenol

Concen: 154.38 ng

RT: 5.74 min Scan# 494

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

Instrument :

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ClientSampleId :

L-SWITCH-SP-0-2-COMPMSD

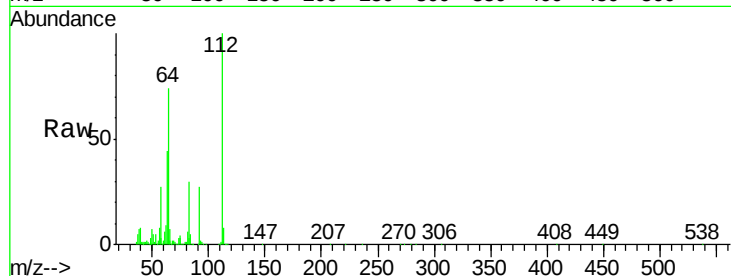
Tgt Ion: 112 Resp: 475459

Ion Ratio Lower Upper

112 100

64 73.7 61.8 92.6

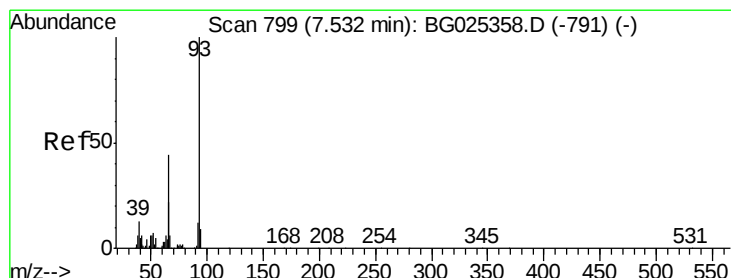
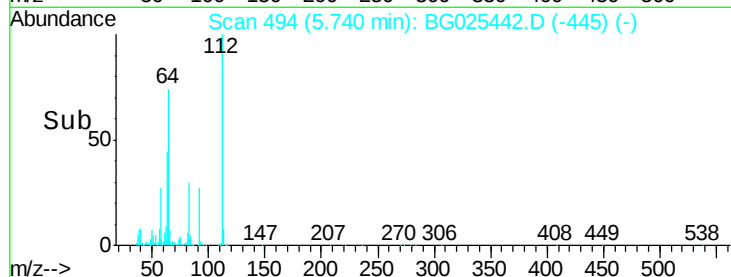
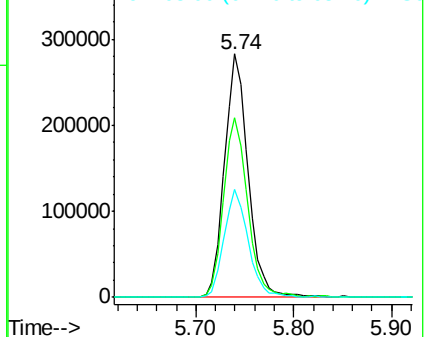
63 44.4 37.2 55.8



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 17.48 ng

RT: 7.53 min Scan# 798

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

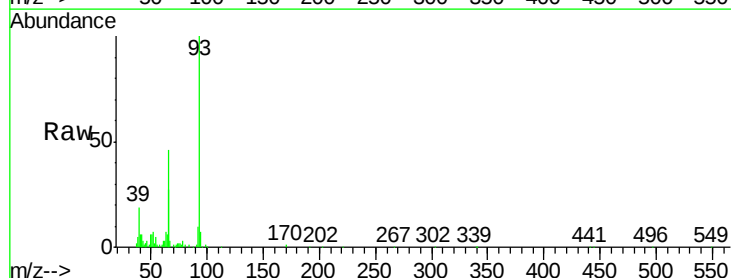
Tgt Ion: 93 Resp: 102725

Ion Ratio Lower Upper

93 100

66 46.4 35.4 53.2

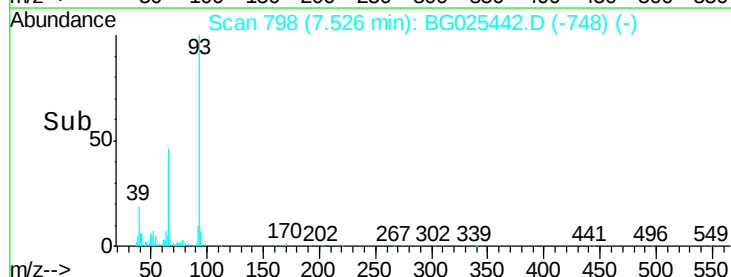
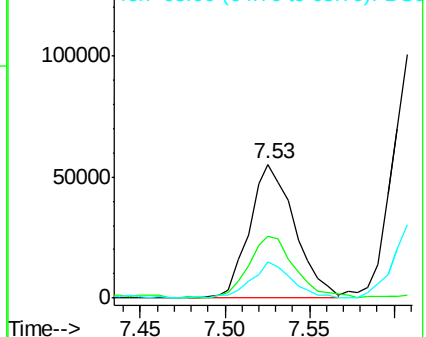
65 27.4 21.2 31.8

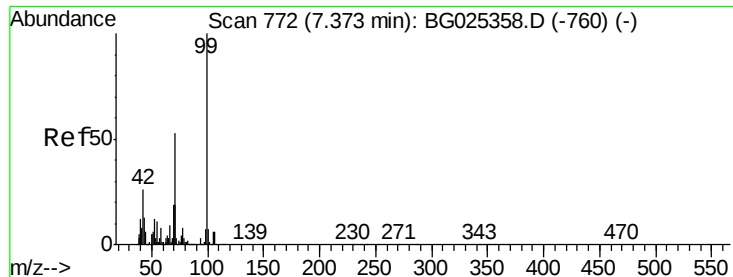


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 143.90 ng

RT: 7.36 min Scan# 770

Delta R.T. -0.01 min

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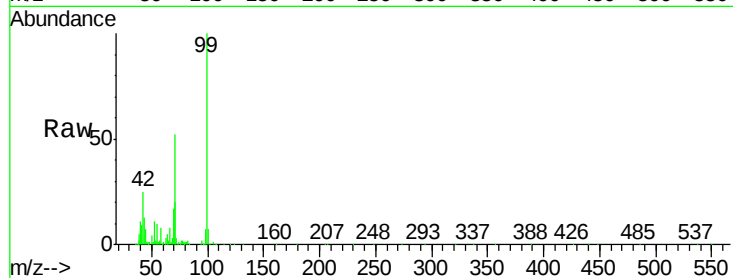
Tgt Ion: 99 Resp: 624171

Ion Ratio Lower Upper

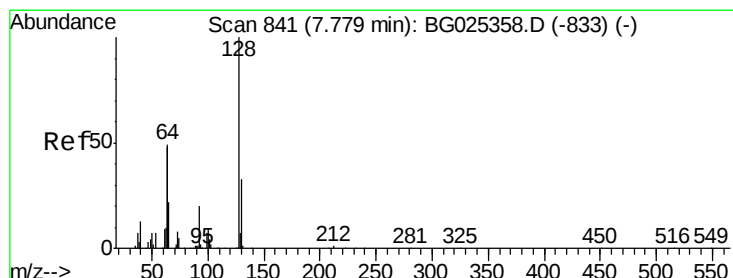
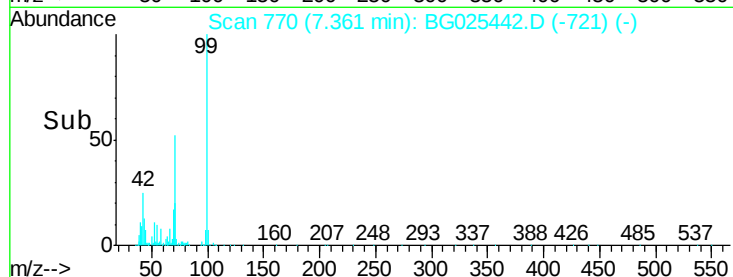
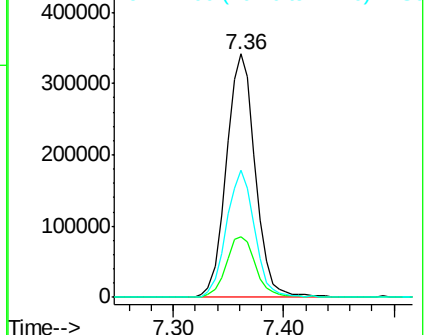
99 100

42 24.8 20.5 30.7

71 52.0 37.6 56.4



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#8

2-Chlorophenol

Concen: 47.72 ng

RT: 7.77 min Scan# 839

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

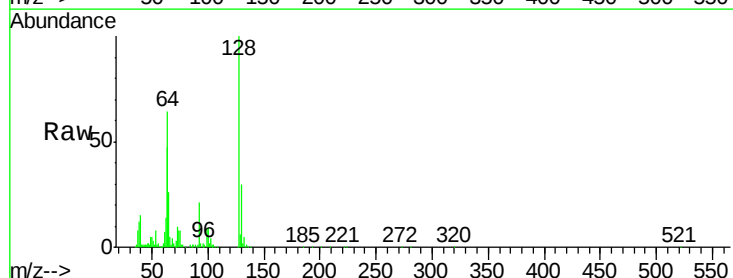
Tgt Ion: 128 Resp: 165810

Ion Ratio Lower Upper

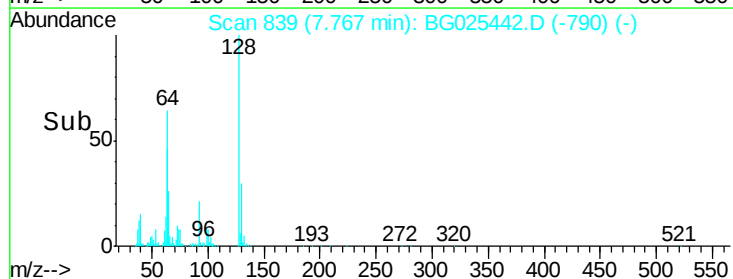
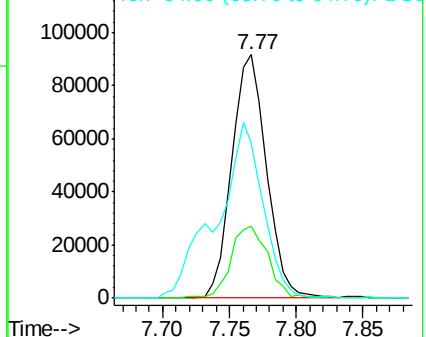
128 100

130 29.7 11.4 51.4

64 63.8 46.6 86.6



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 130.00 (129.70 to 130.70): BGC
Ion 64.00 (63.70 to 64.70): BGC





#9

Benzaldehyde

Concen: 4.80 ng

RT: 7.35 min Scan# 768

Delta R.T. -0.01 min

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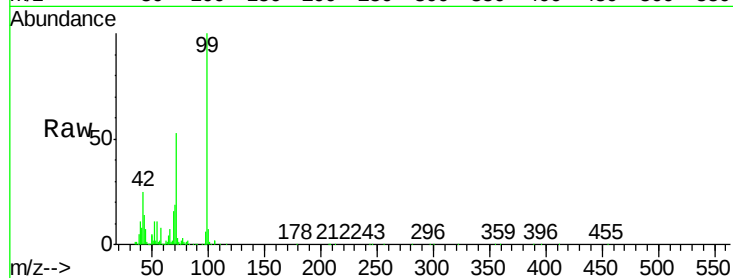
Tgt Ion: 77 Resp: 15221

Ion Ratio Lower Upper

77 100

105 67.9 60.9 100.9

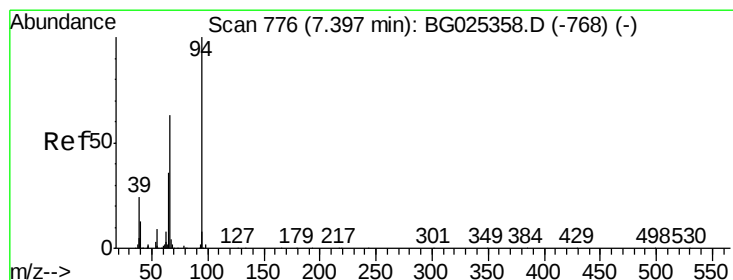
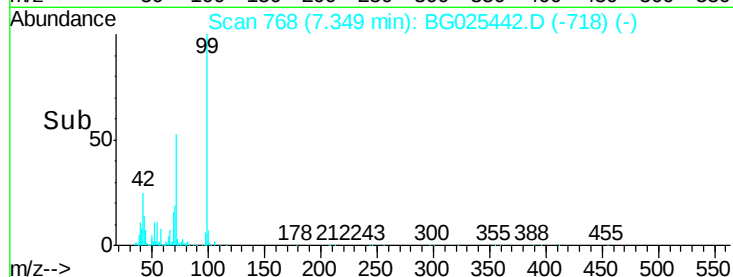
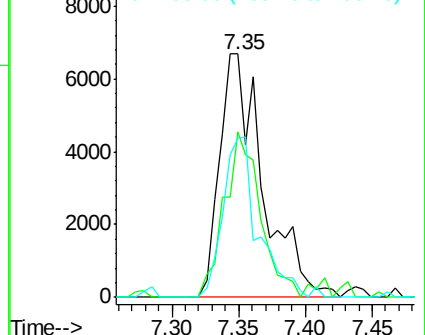
106 65.2 55.1 95.1



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



#10

Phenol

Concen: 44.07 ng

RT: 7.39 min Scan# 775

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

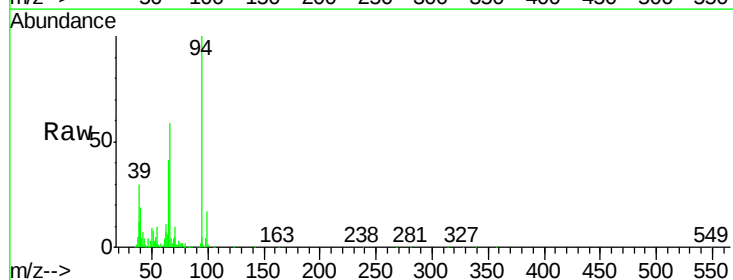
Tgt Ion: 94 Resp: 211922

Ion Ratio Lower Upper

94 100

65 40.6 20.6 60.6

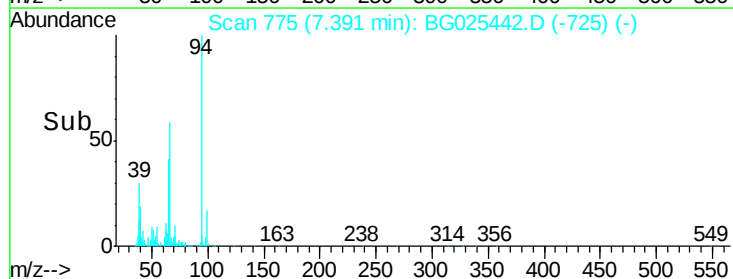
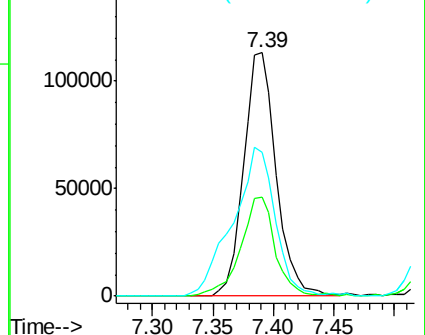
66 58.9 35.5 75.5

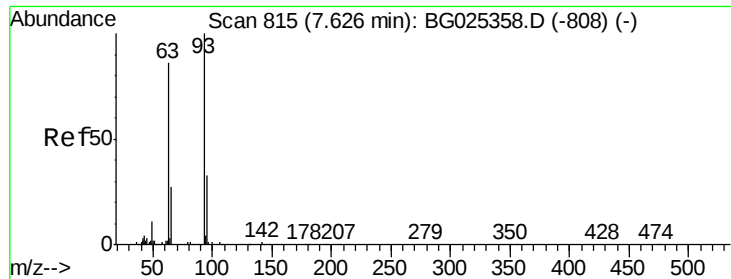


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

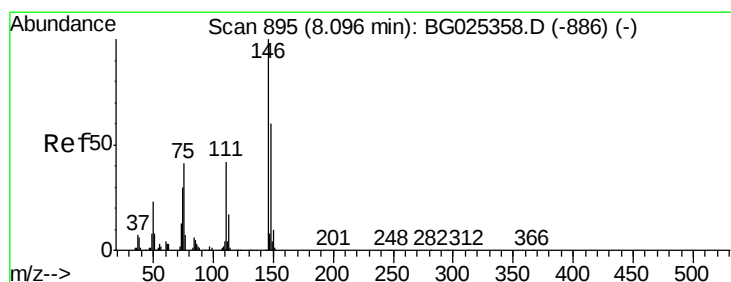
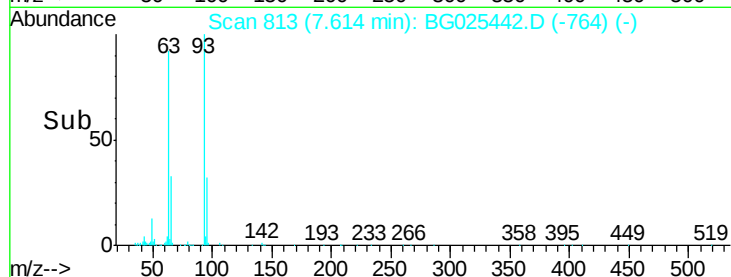
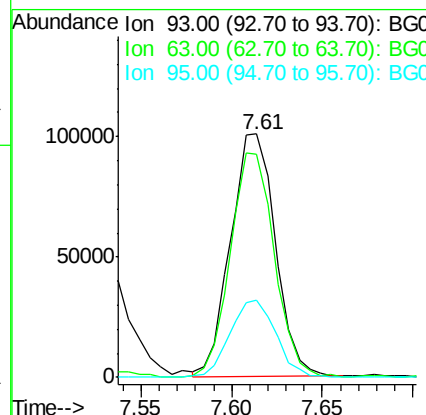
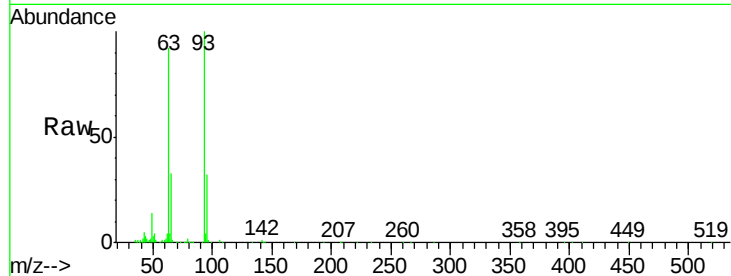




#11
bis(2-Chloroethyl)ether
Concen: 46.42 ng
RT: 7.61 min Scan# 813
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

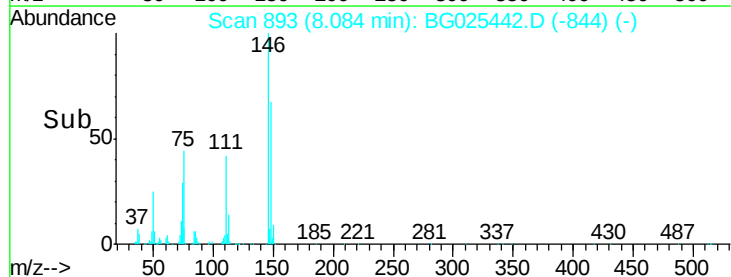
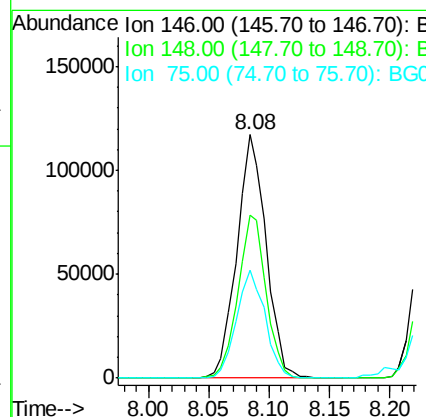
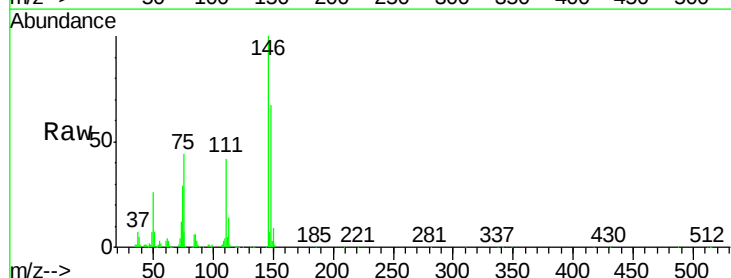
Instrument :
BNA_G
ClientSampleId :
L-SWITCH-SP-0-2-COMPMSD

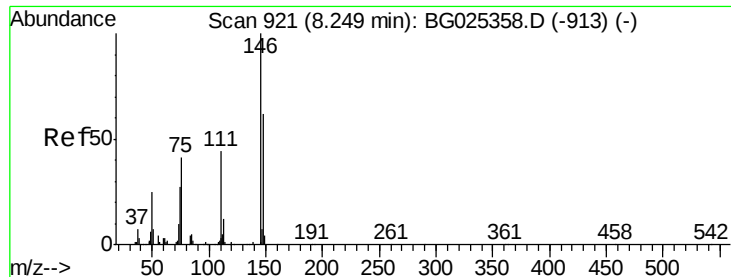
Tgt Ion: 93 Resp: 171987
Ion Ratio Lower Upper
93 100
63 91.8 78.5 118.5
95 31.6 9.8 49.8



#12
1,3-Dichlorobenzene
Concen: 46.81 ng
RT: 8.08 min Scan# 893
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Tgt Ion: 146 Resp: 196800
Ion Ratio Lower Upper
146 100
148 67.0 49.2 73.8
75 44.1 33.4 50.2

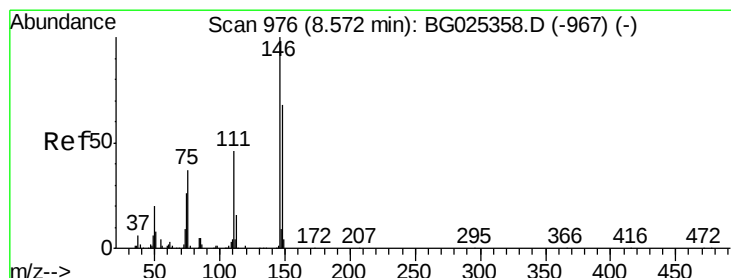
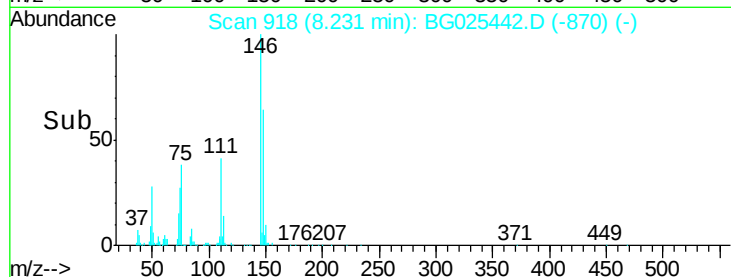
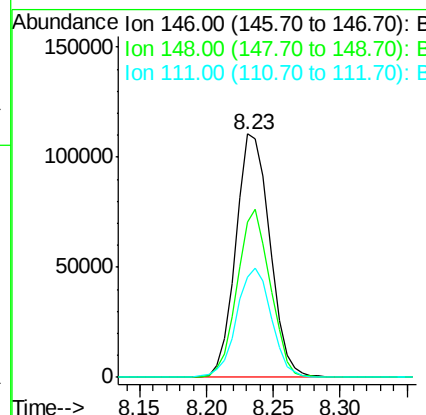
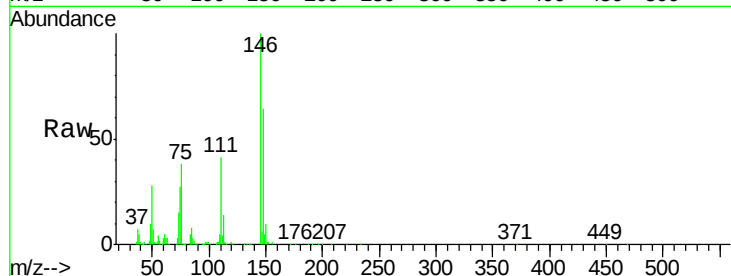




#13
 1,4-Dichlorobenzene
 Concen: 45.03 ng
 RT: 8.23 min Scan# 918
 Delta R.T. -0.02 min
 Lab File: BG025442.D
 Acq: 9 Jan 2017 22:47

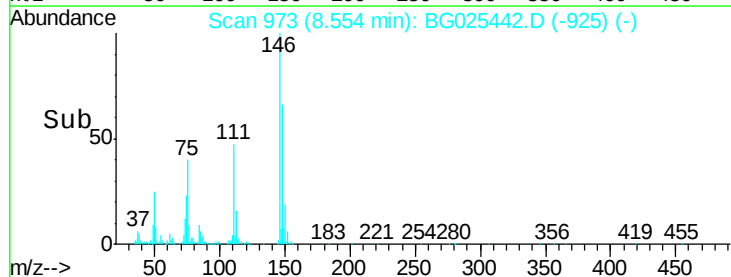
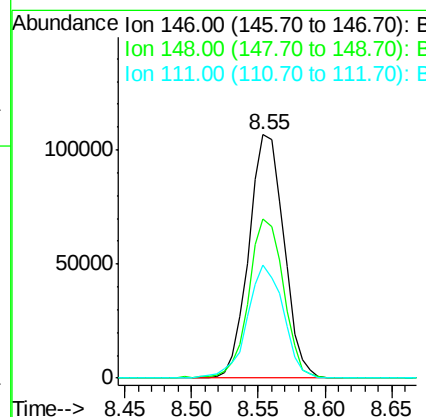
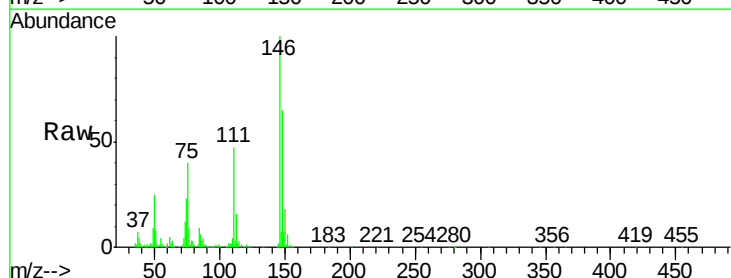
Instrument :
 BNA_G
 ClientSampleId :
 L-SWITCH-SP-0-2-COMPMSD

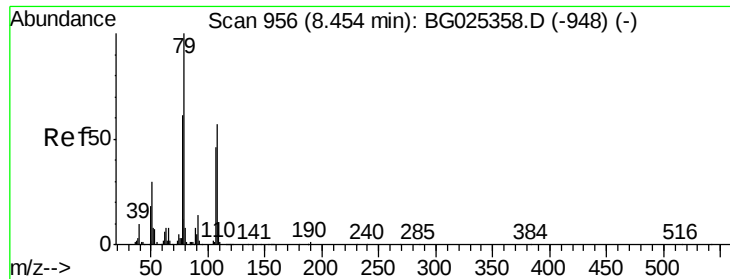
Tgt Ion:146 Resp: 196221
 Ion Ratio Lower Upper
 146 100
 148 63.8 52.2 78.2
 111 41.1 37.0 55.6



#14
 1,2-Dichlorobenzene
 Concen: 46.37 ng
 RT: 8.55 min Scan# 973
 Delta R.T. -0.02 min
 Lab File: BG025442.D
 Acq: 9 Jan 2017 22:47

Tgt Ion:146 Resp: 192806
 Ion Ratio Lower Upper
 146 100
 148 65.4 54.6 81.8
 111 46.6 39.7 59.5





#15

Benzyl Alcohol

Concen: 47.60 ng

RT: 8.44 min Scan# 954

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

Instrument :

BNA_G

ClientSampleId :

L-SWITCH-SP-0-2-COMPMSD

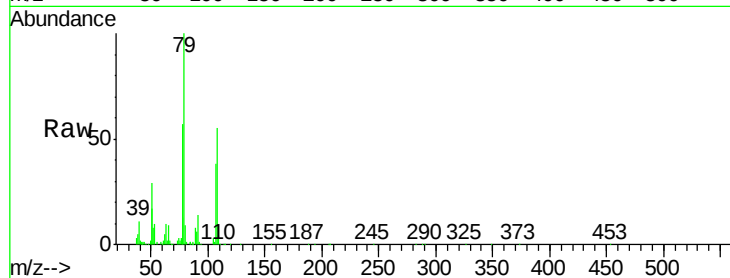
Tgt Ion: 79 Resp: 197101

Ion Ratio Lower Upper

79 100

108 55.2 45.5 68.3

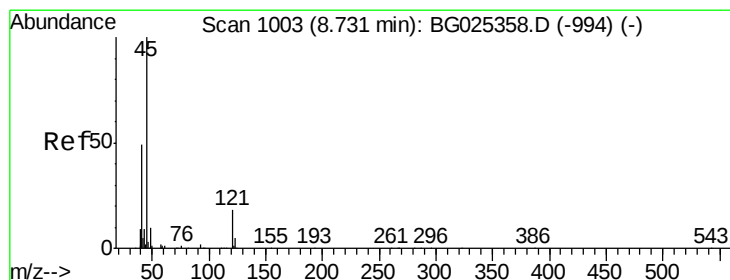
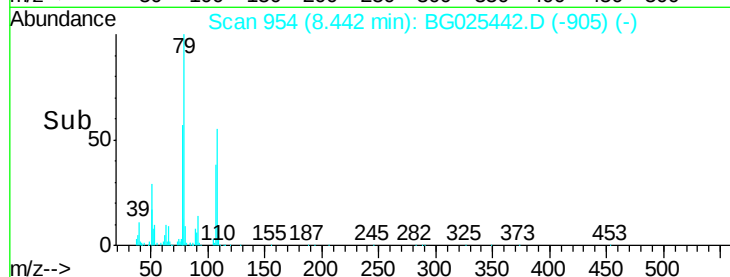
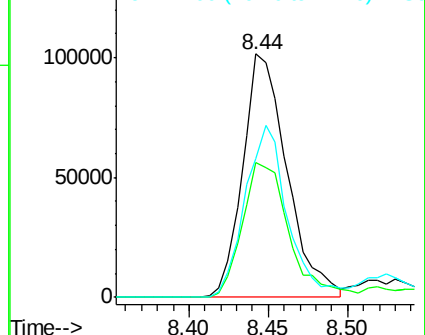
77 57.1 54.3 81.5



Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC



#16

2,2'-oxybis(1-Chloropropane)

Concen: 45.87 ng

RT: 8.72 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BG025442.D

Acq: 9 Jan 2017 22:47

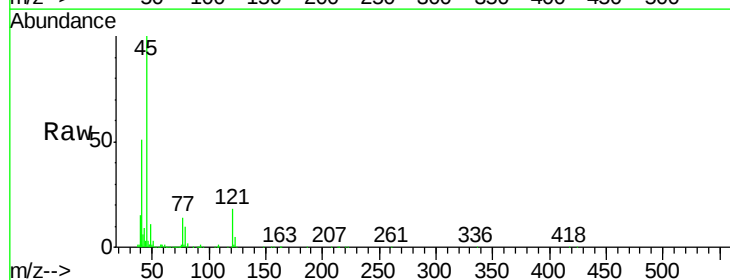
Tgt Ion: 45 Resp: 314747

Ion Ratio Lower Upper

45 100

77 14.4 0.0 30.6

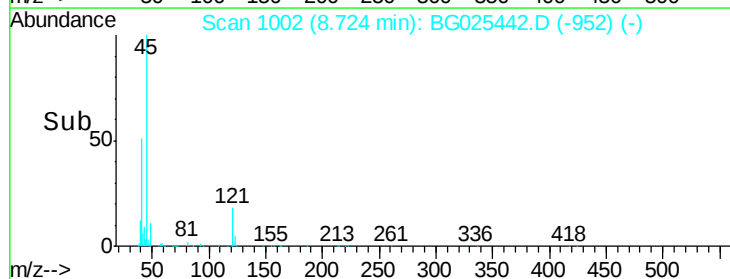
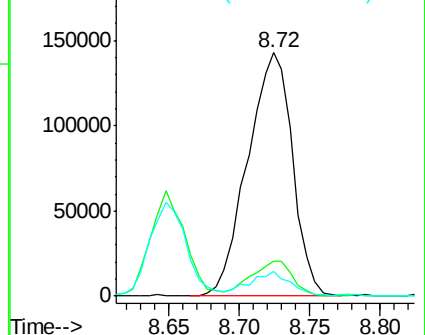
79 10.3 0.0 28.5

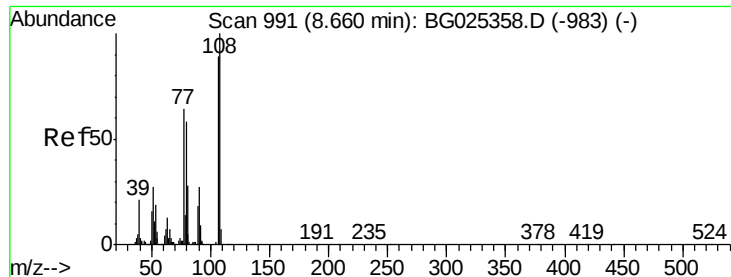


Abundance Ion 45.00 (44.70 to 45.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC

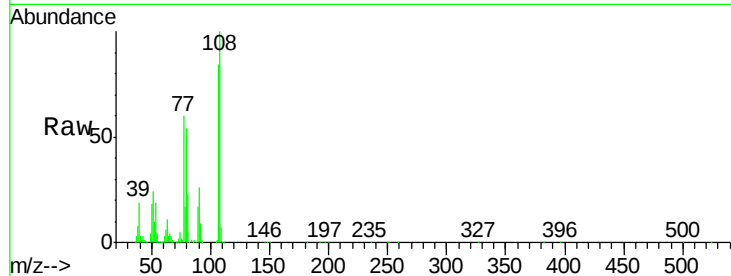




#17
2-Methylphenol
Concen: 48.71 ng
RT: 8.65 min Scan# 989
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Instrument :
BNA_G
ClientSampleId :
L-SWITCH-SP-0-2-COMPMSD

Tgt Ion:	107	Resp:	153804
Ion	Ratio	Lower	Upper
107	100		
108	118.4	85.6	128.4
77	70.7	51.4	77.2
79	63.8	49.2	73.8



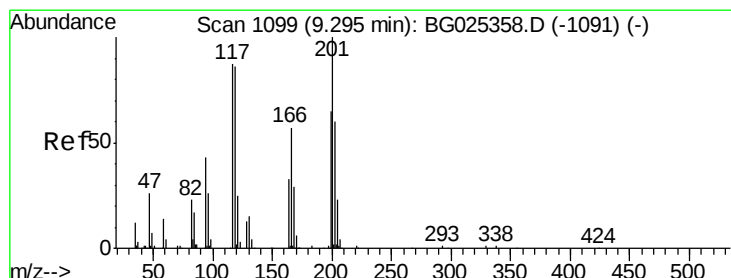
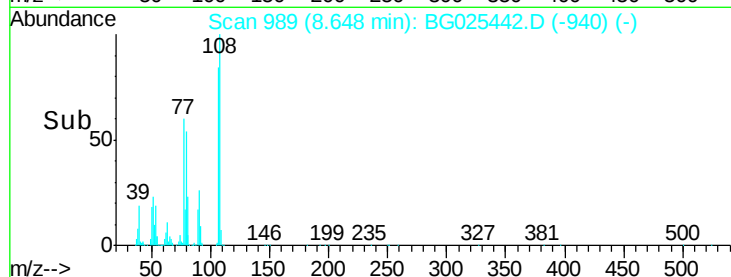
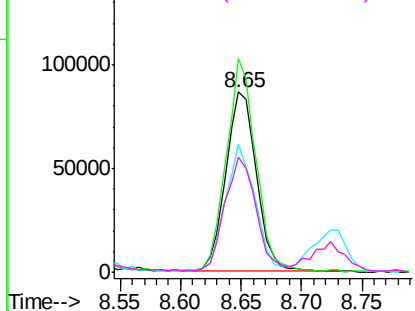
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

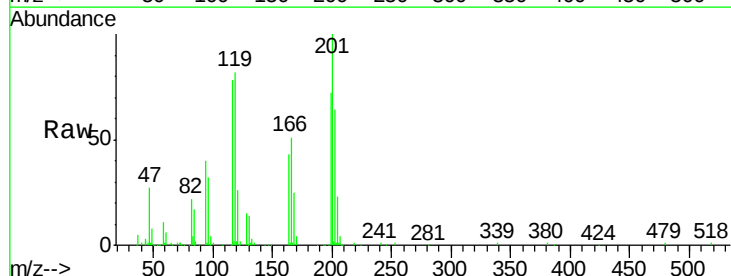
Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#18
Hexachloroethane
Concen: 45.28 ng
RT: 9.28 min Scan# 1097
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Tgt Ion:	117	Resp:	75765
Ion	Ratio	Lower	Upper
117	100		
119	105.4	69.8	104.6#
201	128.2	95.4	143.0

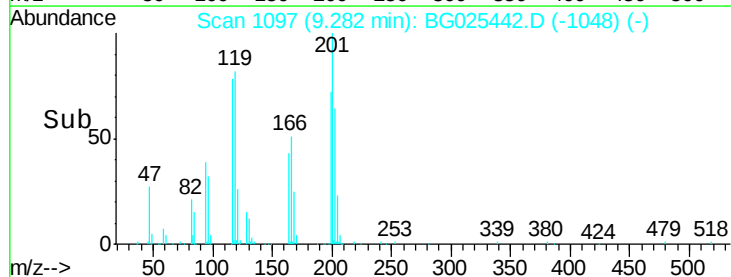
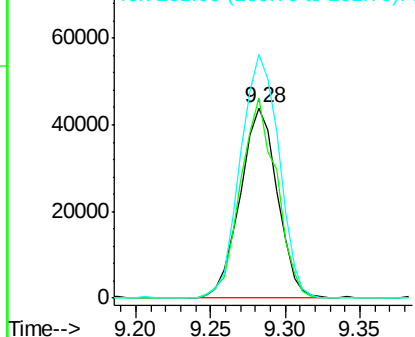


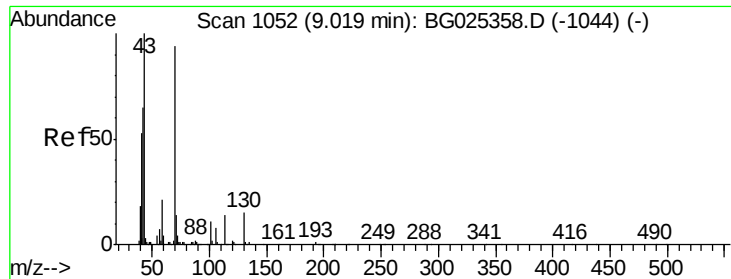
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

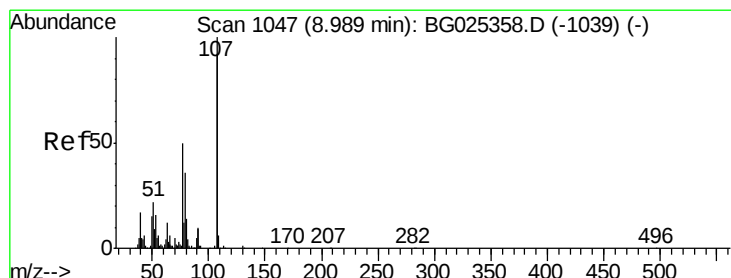
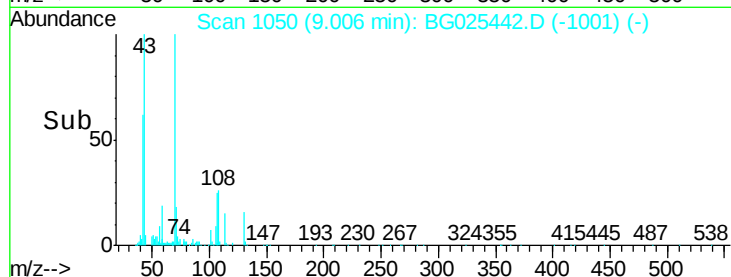
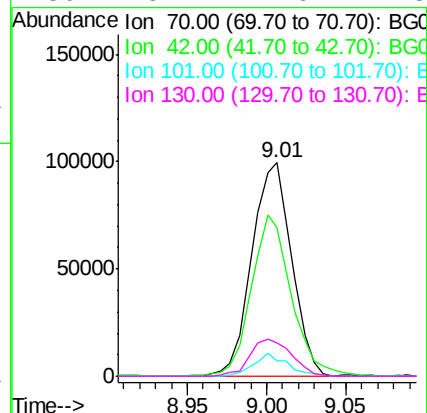
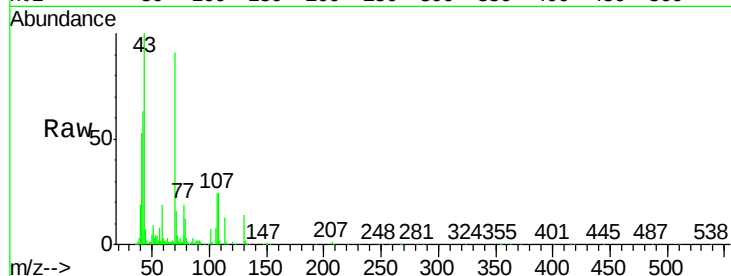




#19
n-Nitroso-di-n-propylamine
Concen: 47.46 ng
RT: 9.01 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

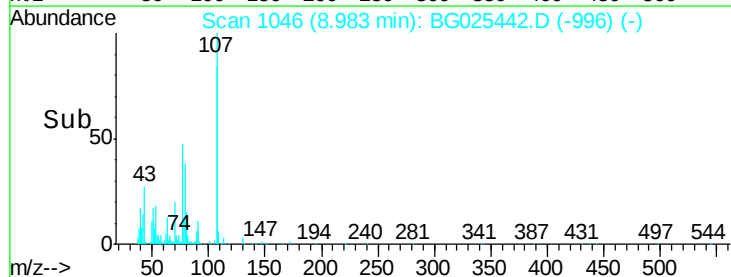
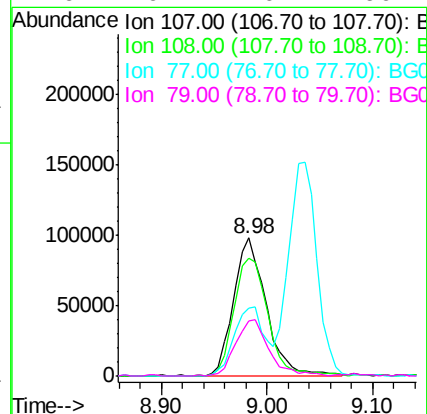
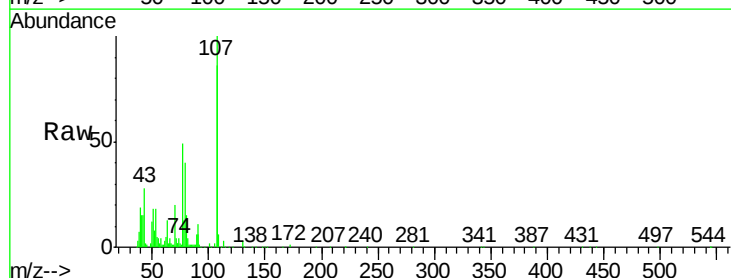
Instrument :
BNA_G
ClientSampleId :
L-SWITCH-SP-0-2-COMPMSD

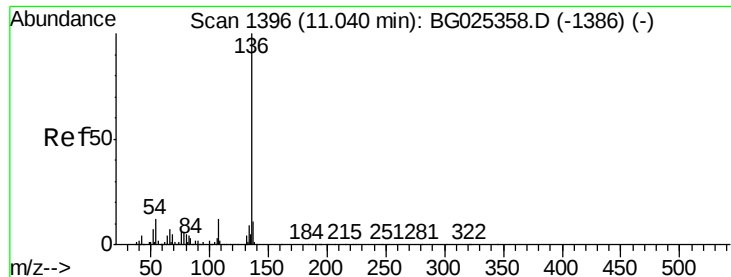
Tgt Ion:	70	Resp:	173888
Ion	Ratio	Lower	Upper
70	100		
42	69.6	56.1	84.1
101	7.4	7.5	11.3#
130	15.7	14.6	21.8



#20
3+4-Methylphenols
Concen: 48.21 ng
RT: 8.98 min Scan# 1046
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Tgt Ion:	107	Resp:	210699
Ion	Ratio	Lower	Upper
107	100		
108	85.6	70.8	110.8
77	49.2	25.8	65.8
79	40.1	20.1	60.1

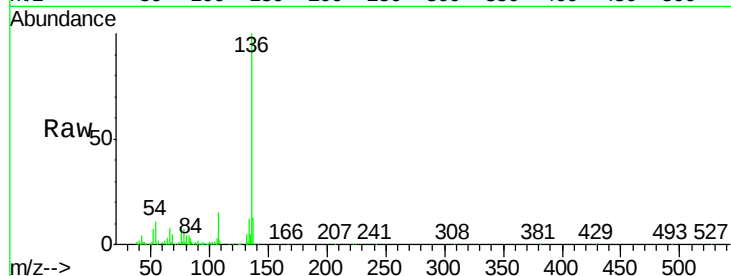




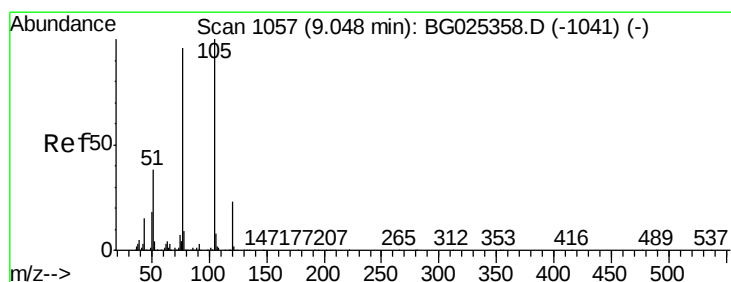
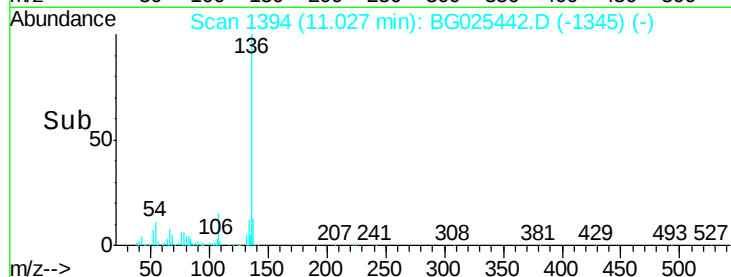
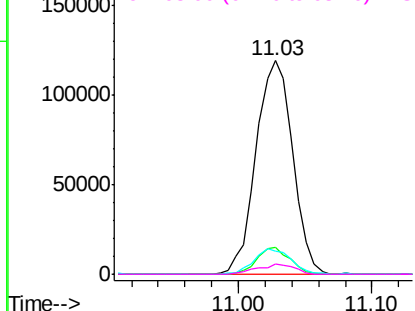
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.03 min Scan# 1394
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Instrument :
BNA_G
ClientSampleId :
L-SWITCH-SP-0-2-COMPMSD

Tgt Ion:	136	Resp:	225672
Ion	Ratio	Lower	Upper
136	100		
137	12.9	8.9	13.3
54	10.5	9.3	13.9
68	4.9	5.1	7.7#

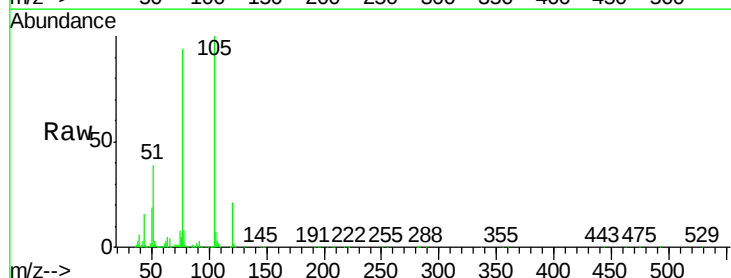


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC



#22
Acetophenone
Concen: 46.45 ng
RT: 9.04 min Scan# 1055
Delta R.T. -0.01 min
Lab File: BG025442.D
Acq: 9 Jan 2017 22:47

Tgt Ion:	105	Resp:	291219
Ion	Ratio	Lower	Upper
105	100		
71	0.6	0.9	1.3#
51	39.3	34.0	51.0
120	20.6	17.3	25.9



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BGC
Ion 51.00 (50.70 to 51.70): BGC
Ion 120.00 (119.70 to 120.70): E

