

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080316\
 Data File : BG023442.D
 Acq On : 4 Aug 2016 2:02
 Operator : UM/SJ
 Sample : H4176-20MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 GW-34-7.0-15.0MSD

Quant Time: Aug 04 03:17:44 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG080116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 19:22:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	115750	20.00	ng	0.00
21) Naphthalene-d8	10.95	136	532715	20.00	ng	0.00
38) Acenaphthene-d10	14.78	164	397192	20.00	ng	0.00
63) Phenanthrene-d10	17.54	188	988541	20.00	ng	0.00
75) Chrysene-d12	21.86	240	962816	20.00	ng	0.00
86) Perylene-d12	25.23	264	936546	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.66	112	491288	71.45	ng	0.00
7) Phenol-d6	7.28	99	502610	46.93	ng	0.00
23) Nitrobenzene-d5	9.30	82	1058392	98.77	ng	0.00
41) 2,4,6-Tribromophenol	16.28	330	852515	146.74	ng	0.00
44) 2-Fluorobiphenyl	13.40	172	2194994	93.21	ng	0.00
78) Terphenyl-d14	20.15	244	2964276	99.65	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.52	88	42469	14.50	ng	# 91
3) Pyridine	3.93	79	117967	12.25	ng	96
4) n-Nitrosodimethylamine	3.84	42	66370	18.59	ng	# 81
6) Aniline	7.43	93	374936	24.23	ng	94
8) 2-Chlorophenol	7.68	128	309610	39.19	ng	98
9) Benzaldehyde	7.25	77	201671	31.17	ng	92
10) Phenol	7.30	94	192988	16.84	ng	82
11) bis(2-Chloroethyl)ether	7.53	93	401123	43.89	ng	92
12) 1,3-Dichlorobenzene	8.15	146	358596	39.65	ng	94
13) 1,4-Dichlorobenzene	8.15	146	358596	38.73	ng	92
14) 1,2-Dichlorobenzene	8.47	146	352409	38.80	ng	91
15) Benzyl Alcohol	8.36	79	286328	35.28	ng	95
16) 2,2'-oxybis(1-Chloropropan	8.65	45	537583	39.99	ng	92
17) 2-Methylphenol	8.57	107	267884	34.87	ng	89
18) Hexachloroethane	9.21	117	134414	38.57	ng	97
19) n-Nitroso-di-n-propylamine	8.93	70	411419	44.66	ng	96
20) 3+4-Methylphenols	8.90	107	345793	31.93	ng	88
22) Acetophenone	8.95	105	591969	40.58	ng	# 91
24) Nitrobenzene	9.34	77	576920	48.62	ng	# 90
25) Isophorone	9.86	82	1112622	49.85	ng	# 95
26) 2-Nitrophenol	10.05	139	233762	46.68	ng	# 80
27) 2,4-Dimethylphenol	10.11	122	370824	43.49	ng	85
28) bis(2-Chloroethoxy)methane	10.34	93	631471	47.06	ng	99
29) 2,4-Dichlorophenol	10.60	162	432841	50.48	ng	99
30) 1,2,4-Trichlorobenzene	10.81	180	403562	43.64	ng	95
31) Naphthalene	11.00	128	1205457	44.44	ng	99
32) Benzoic acid	10.20	122	64959	13.61	ng	# 82
33) 4-Chloroaniline	11.11	127	340203	26.23	ng	94
34) Hexachlorobutadiene	11.28	225	266315	43.79	ng	97
35) Caprolactam	11.90	113	30443	8.44	ng	93
36) 4-Chloro-3-methylphenol	12.23	107	518996	46.07	ng	91
37) 2-Methylnaphthalene	12.60	142	974605	47.26	ng	93
39) 1,2,4,5-Tetrachlorobenzene	12.97	216	500783	34.77	ng	98
40) Hexachlorocyclopentadiene	12.95	237	570218	78.51	ng	99

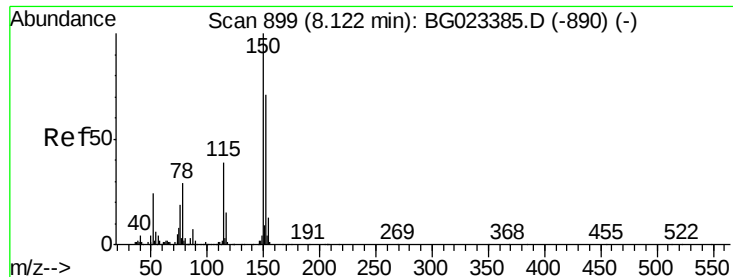
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080316\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	13.22	196	410088	47.80	ng	99
43) 2,4,5-Trichlorophenol	13.29	196	440957	49.92	ng	91
45) 1,1'-Biphenyl	13.61	154	1227013	40.41	ng	97
46) 2-Chloronaphthalene	13.66	162	1077943	45.89	ng	98
47) 2-Nitroaniline	13.87	65	493190	50.57	ng	# 84
48) Acenaphthylene	14.51	152	1727661	46.53	ng	97
49) Dimethylphthalate	14.23	163	1588471	52.13	ng	97
50) 2,6-Dinitrotoluene	14.36	165	366896	50.84	ng	88
51) Acenaphthene	14.85	154	1122572	47.72	ng	99
52) 3-Nitroaniline	14.70	138	261520	32.14	ng	# 82
53) 2,4-Dinitrophenol	14.90	184	469714	101.54	ng	89
54) Dibenzofuran	15.18	168	1766151	51.72	ng	99
55) 4-Nitrophenol	15.01	139	238715	37.35	ng	# 79
56) 2,4-Dinitrotoluene	15.15	165	543621	53.67	ng	95
57) Fluorene	15.84	166	1468399	49.27	ng	99
58) 2,3,4,6-Tetrachlorophenol	15.33	232	462714	57.09	ng	95
59) Diethylphthalate	15.59	149	1579843	51.07	ng	95
60) 4-Chlorophenyl-phenylether	15.82	204	766969	48.63	ng	100
61) 4-Nitroaniline	15.86	138	377830	43.61	ng	# 70
62) Azobenzene	16.12	77	1694096	54.03	ng	90
64) 4,6-Dinitro-2-methylphenol	15.92	198	343167	51.06	ng	94
65) n-Nitrosodiphenylamine	16.04	169	1368563	47.20	ng	92
66) 4-Bromophenyl-phenylether	16.72	248	552998	48.00	ng	96
67) Hexachlorobenzene	16.85	284	601888	47.75	ng	97
68) Atrazine	16.99	200	549393	49.35	ng	96
69) Pentachlorophenol	17.19	266	721540	98.19	ng	99
70) Phenanthrene	17.59	178	2338620	46.62	ng	93
71) Anthracene	17.68	178	2380519	47.19	ng	93
72) Carbazole	17.96	167	2222506	50.17	ng	97
73) Di-n-butylphthalate	18.49	149	2451901	56.55	ng	97
74) Fluoranthene	19.60	202	2638705	58.52	ng	93
76) Benzidine	19.78	184	367745	13.74	ng	96
77) Pyrene	19.97	202	2613790	48.65	ng	96
79) Butylbenzylphthalate	20.83	149	1182996	51.03	ng	99
80) Benzo(a)anthracene	21.84	228	2524566	47.50	ng	98
81) 3,3'-Dichlorobenzidine	21.75	252	695472	31.90	ng	# 93
82) Chrysene	21.91	228	2378038	47.03	ng	95
83) Bis(2-ethylhexyl)phthalate	21.72	149	1581363	49.81	ng	99
84) Di-n-octyl phthalate	22.98	149	2585100	47.71	ng	100
85) Indeno(1,2,3-cd)pyrene	29.11	276	3069207	48.58	ng	# 100
87) Benzo(b)fluoranthene	24.16	252	2651348	50.32	ng	# 95
88) Benzo(k)fluoranthene	24.23	252	2516343	49.72	ng	# 96
89) Benzo(a)pyrene	25.08	252	2520258	50.29	ng	# 96
90) Dibenzo(a,h)anthracene	29.17	278	2606502	50.91	ng	# 91
91) Benzo(g,h,i)perylene	30.32	276	2554400	49.55	ng	# 93

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

Instrument :

BNA_G

ClientSampleId :

GW-34-7.0-15.0MSD

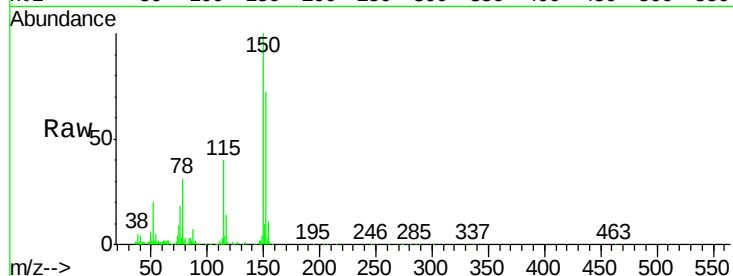
Tgt Ion:152 Resp: 115750

Ion Ratio Lower Upper

152 100

150 139.4 144.7 217.1#

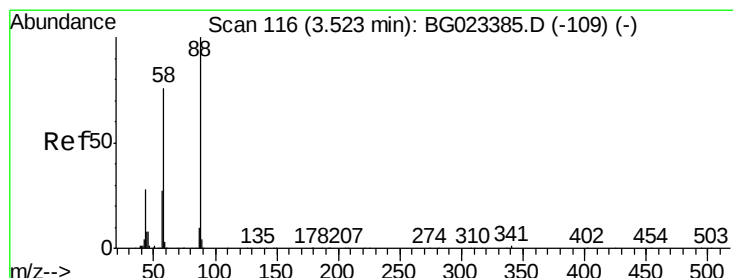
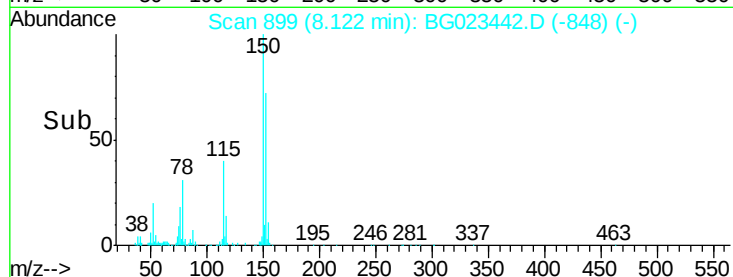
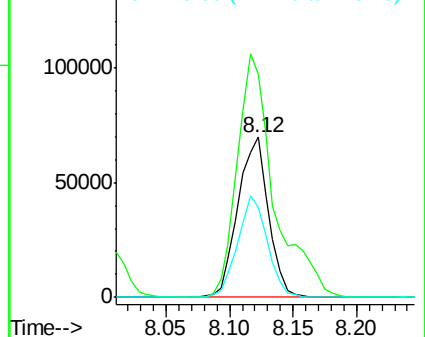
115 56.1 64.0 96.0#



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: 14.50 ng

RT: 3.52 min Scan# 116

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

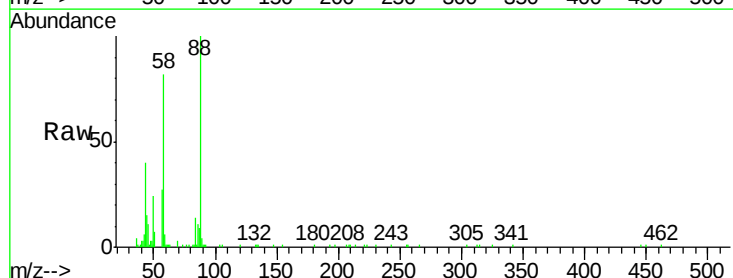
Tgt Ion: 88 Resp: 42469

Ion Ratio Lower Upper

88 100

58 80.9 60.4 90.6

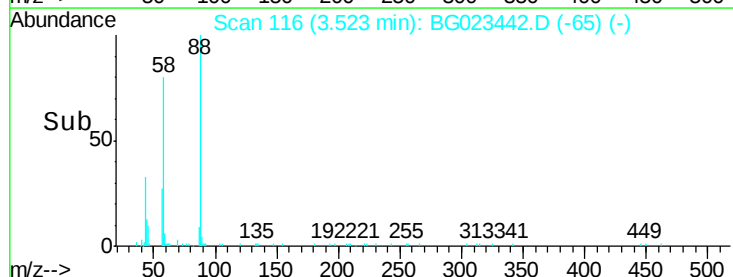
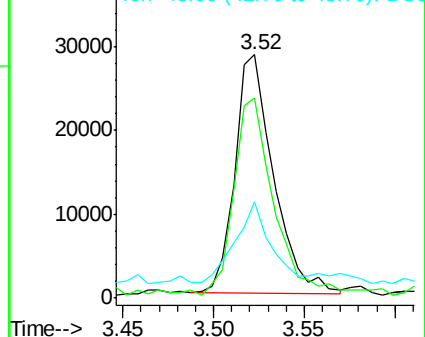
43 30.7 31.1 46.7#

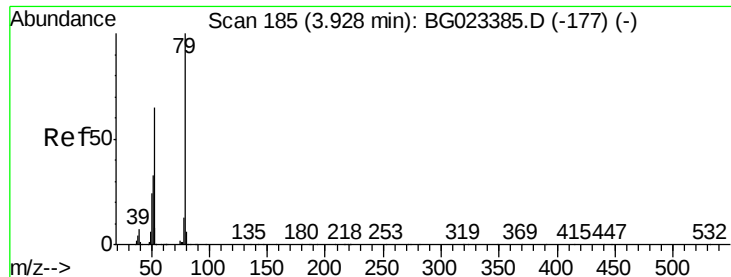


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 12.25 ng

RT: 3.93 min Scan# 185

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

Instrument :

BNA_G

ClientSampleId :

GW-34-7.0-15.0MSD

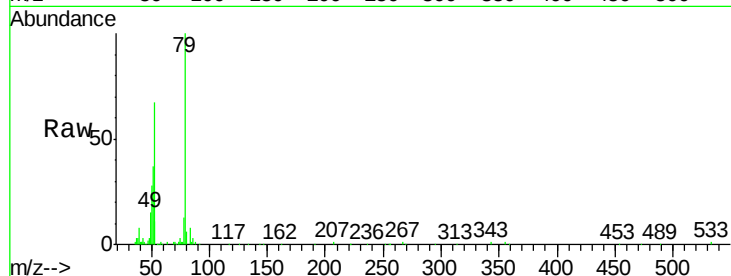
Tgt Ion: 79 Resp: 117967

Ion Ratio Lower Upper

79 100

52 67.4 51.8 77.8

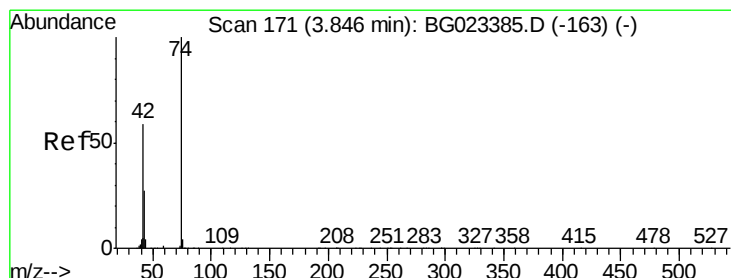
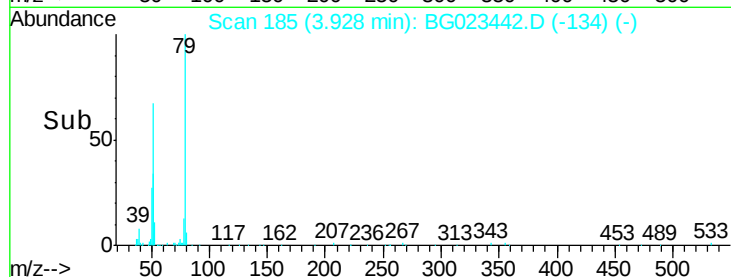
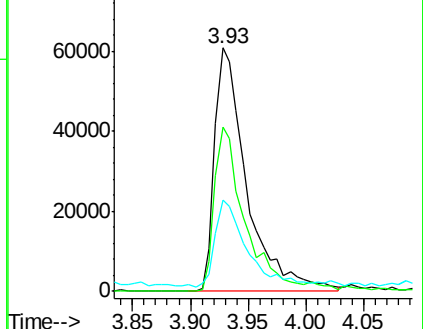
51 37.4 32.7 49.1



Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 52.00 (51.70 to 52.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#4

n-Nitrosodimethylamine

Concen: 18.59 ng

RT: 3.84 min Scan# 170

Delta R.T. -0.01 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

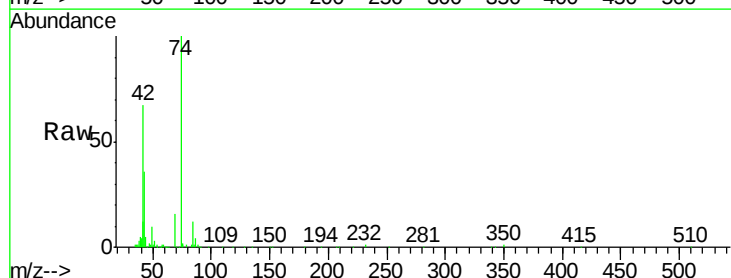
Tgt Ion: 42 Resp: 66370

Ion Ratio Lower Upper

42 100

74 148.6 100.6 150.8

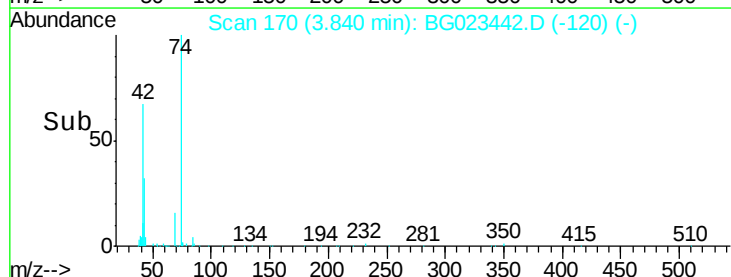
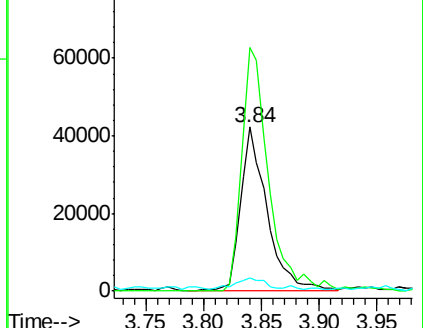
44 7.9 4.5 6.7#

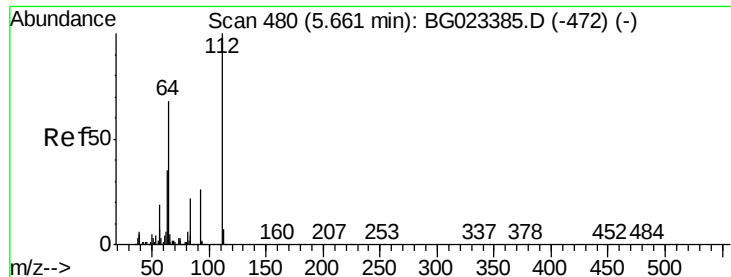


Abundance Ion 42.00 (41.70 to 42.70): BGC

Ion 74.00 (73.70 to 74.70): BGC

Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 71.45 ng

RT: 5.66 min Scan# 480

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

Instrument :

BNA_G

ClientSampleId :

GW-34-7.0-15.0MSD

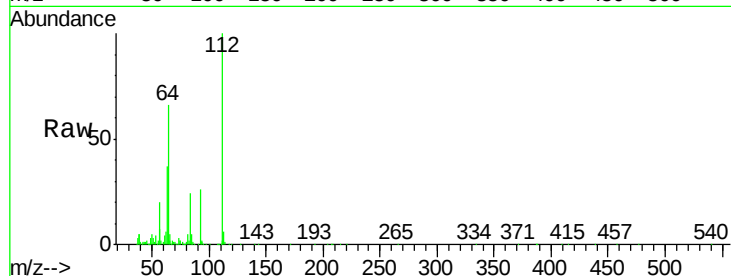
Tgt Ion: 112 Resp: 491288

Ion Ratio Lower Upper

112 100

64 66.2 59.0 88.4

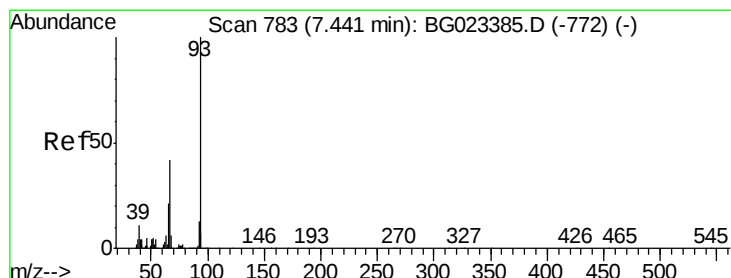
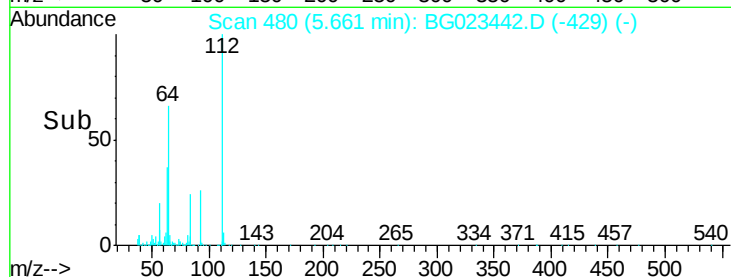
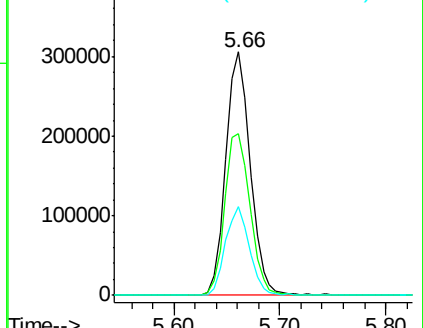
63 36.6 37.8 56.8#



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: 24.23 ng

RT: 7.43 min Scan# 782

Delta R.T. -0.01 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

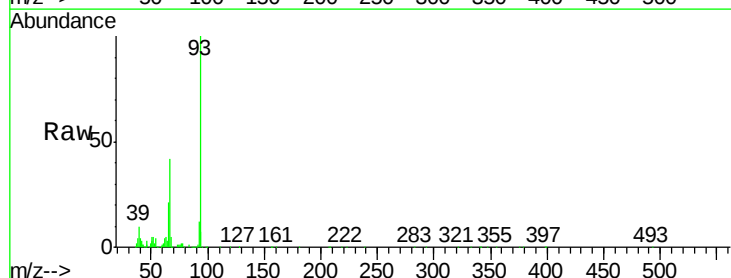
Tgt Ion: 93 Resp: 374936

Ion Ratio Lower Upper

93 100

66 41.9 37.5 56.3

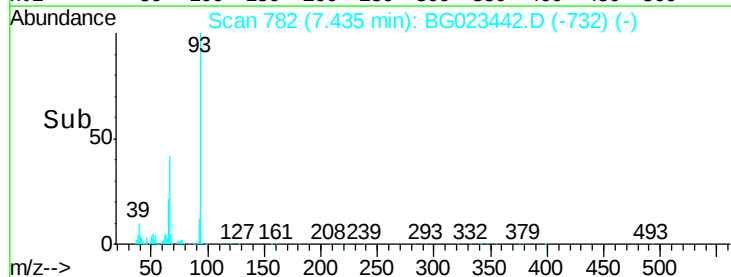
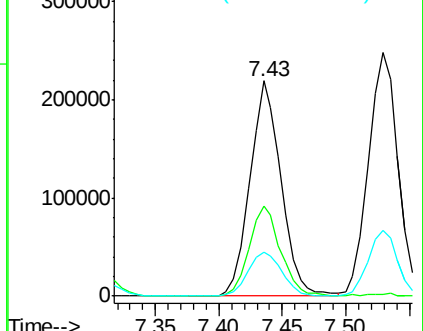
65 20.6 17.9 26.9

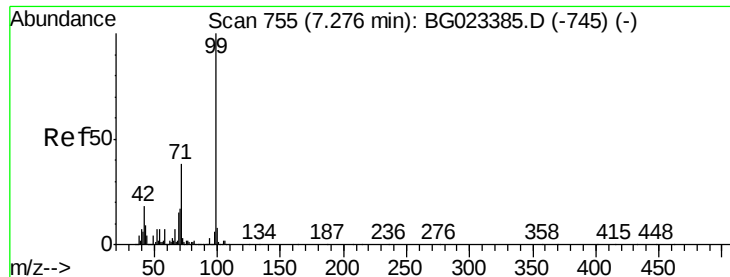


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 46.93 ng

RT: 7.28 min Scan# 755

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

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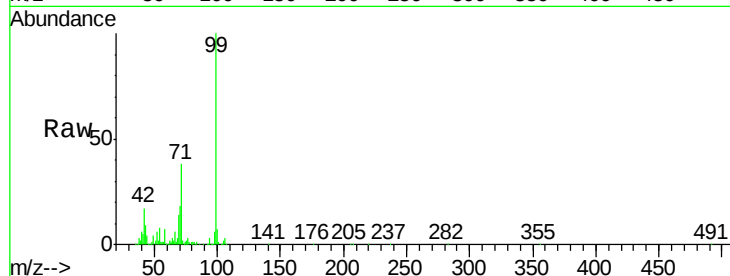
Tgt Ion: 99 Resp: 502610

Ion Ratio Lower Upper

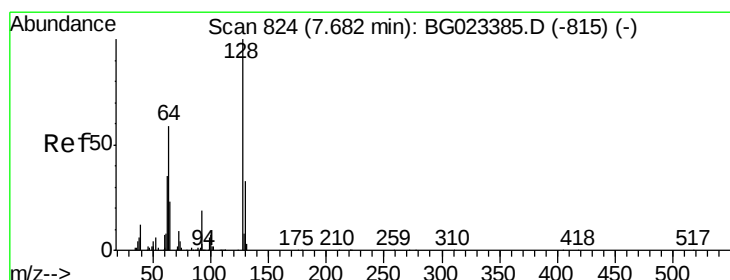
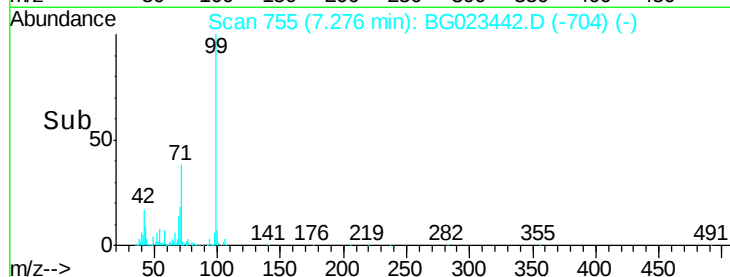
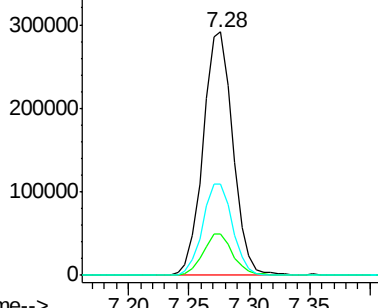
99 100

42 16.9 17.8 26.6#

71 37.7 41.5 62.3#



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: 39.19 ng

RT: 7.68 min Scan# 824

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

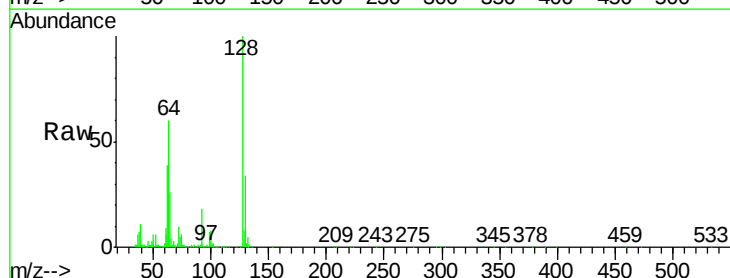
Tgt Ion: 128 Resp: 309610

Ion Ratio Lower Upper

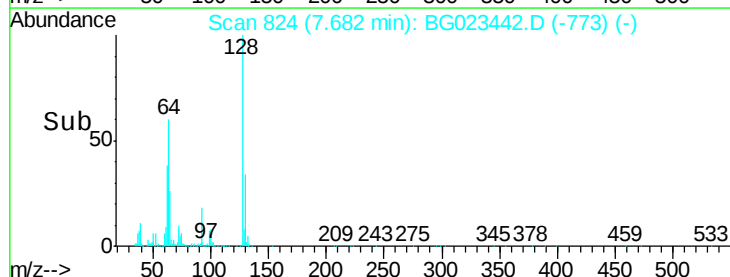
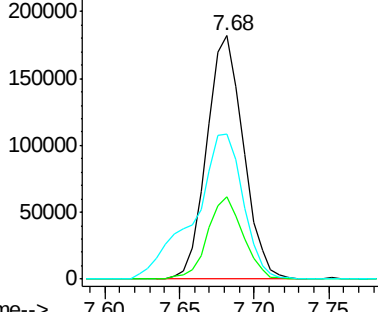
128 100

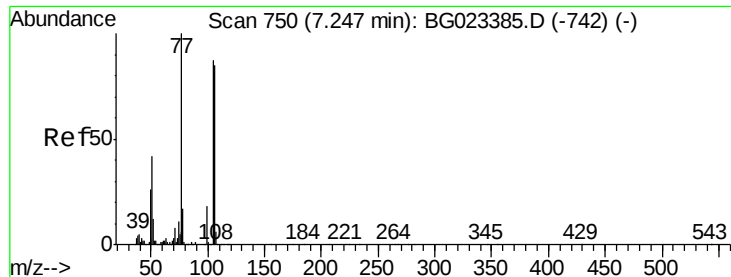
130 33.6 12.9 52.9

64 59.6 42.0 82.0



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: 31.17 ng

RT: 7.25 min Scan# 750

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

Instrument :

BNA_G

ClientSampleId :

GW-34-7.0-15.0MSD

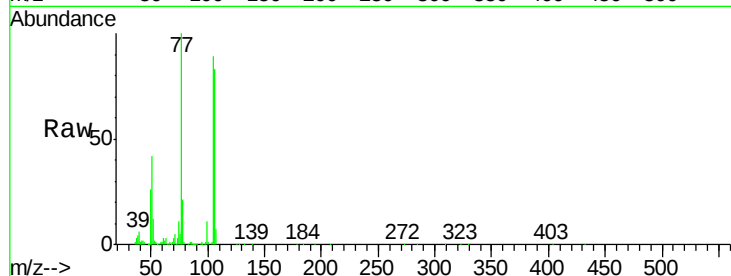
Tgt Ion: 77 Resp: 201671

Ion Ratio Lower Upper

77 100

105 88.8 58.7 98.7

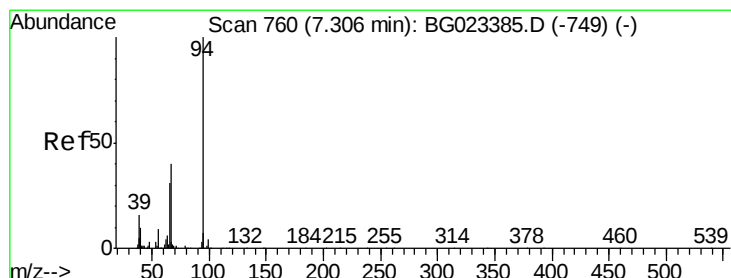
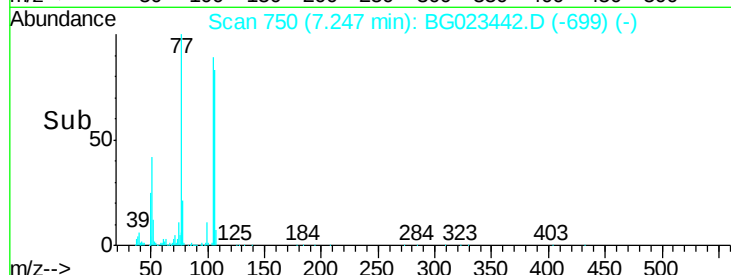
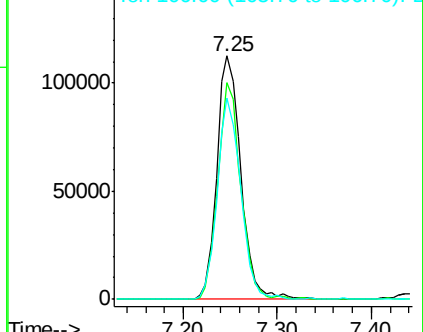
106 82.9 67.5 107.5



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: 16.84 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.01 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

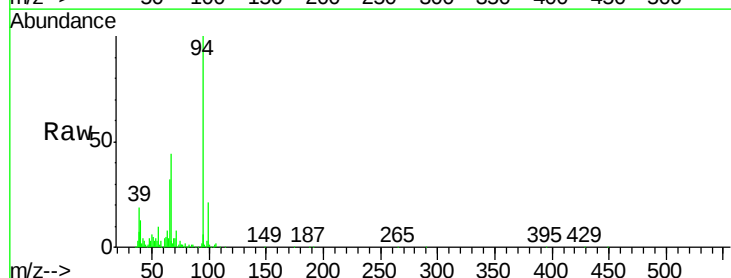
Tgt Ion: 94 Resp: 192988

Ion Ratio Lower Upper

94 100

65 31.8 18.1 58.1

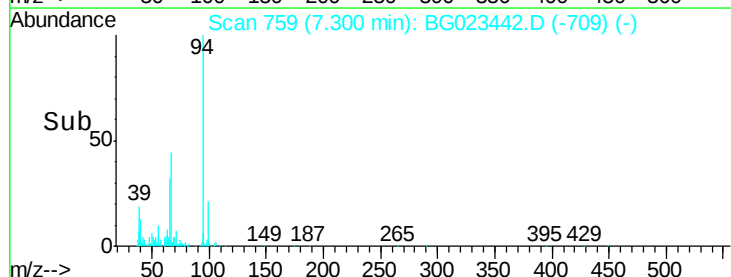
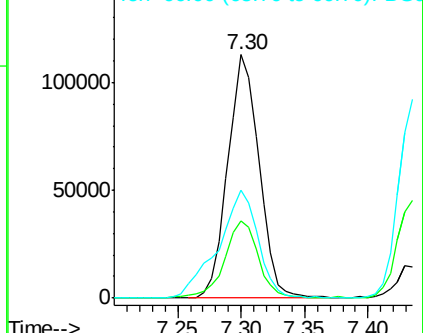
66 44.2 42.1 82.1



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

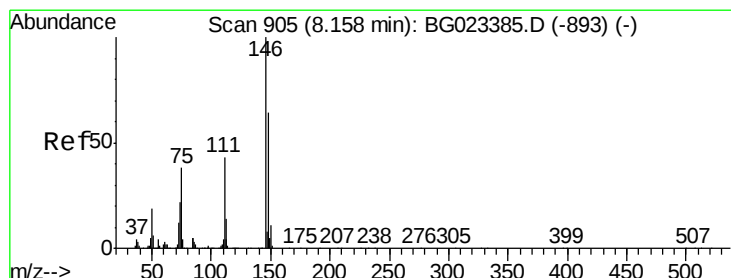
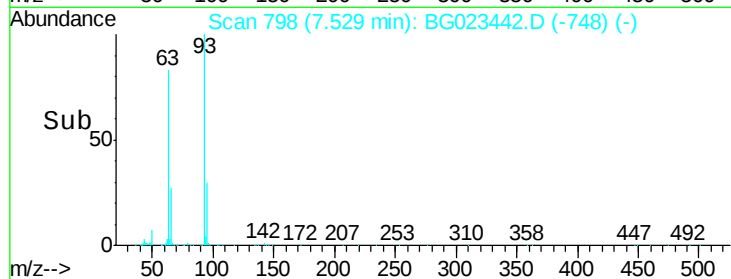
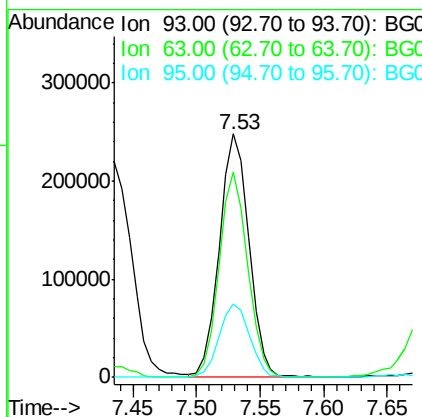
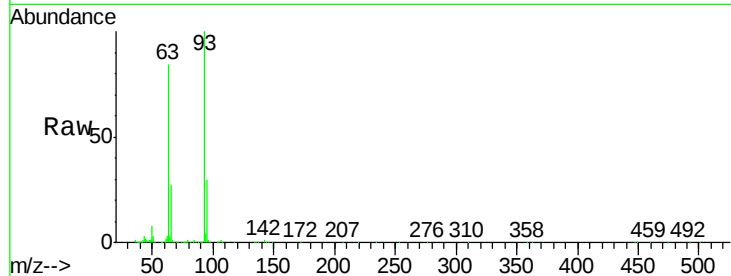




#11
bis(2-Chloroethyl)ether
Concen: 43.89 ng
RT: 7.53 min Scan# 798
Delta R.T. -0.01 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

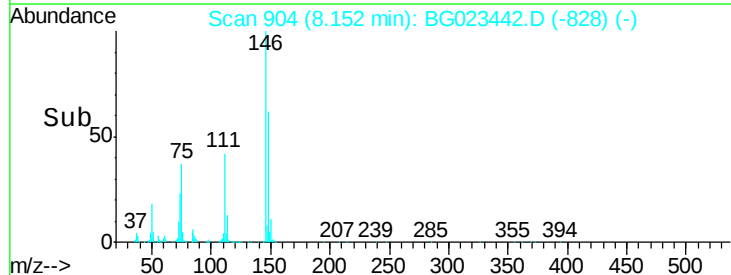
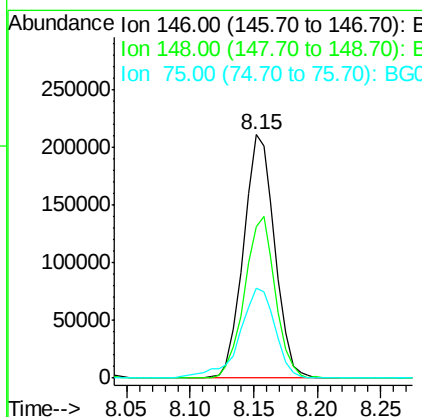
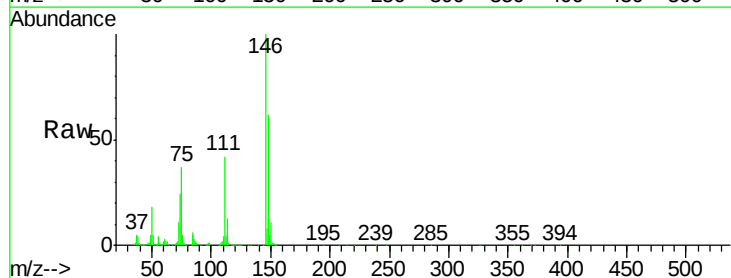
Instrument :
BNA_G
ClientSampleId :
GW-34-7.0-15.0MSD

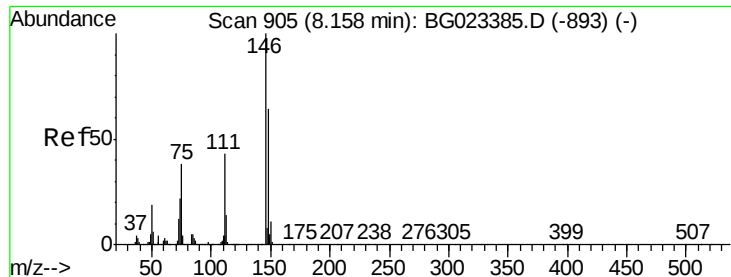
Tgt Ion	Ratio	Lower	Upper
93	100		
63	84.1	55.0	95.0
95	30.3	11.0	51.0



#12
1,3-Dichlorobenzene
Concen: 39.65 ng
RT: 8.15 min Scan# 904
Delta R.T. 0.15 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.2	50.3	75.5
75	37.1	37.0	55.6

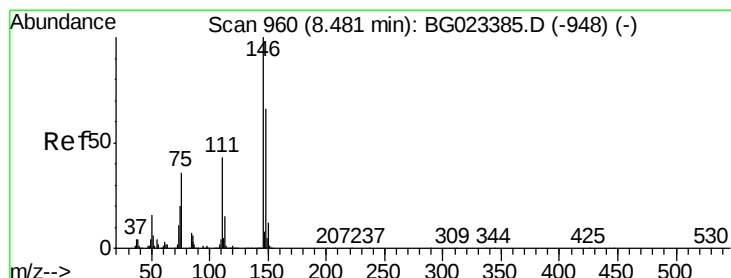
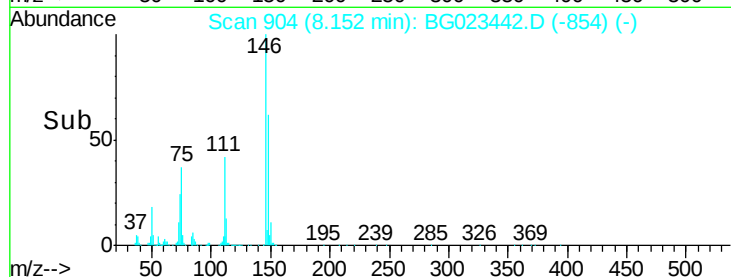
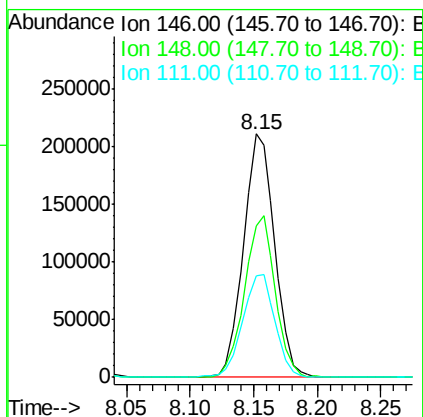
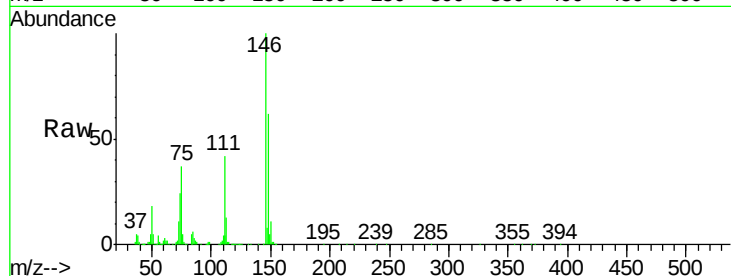




#13
 1,4-Dichlorobenzene
 Concen: 38.73 ng
 RT: 8.15 min Scan# 904
 Delta R.T. -0.01 min
 Lab File: BG023442.D
 Acq: 4 Aug 2016 2:02

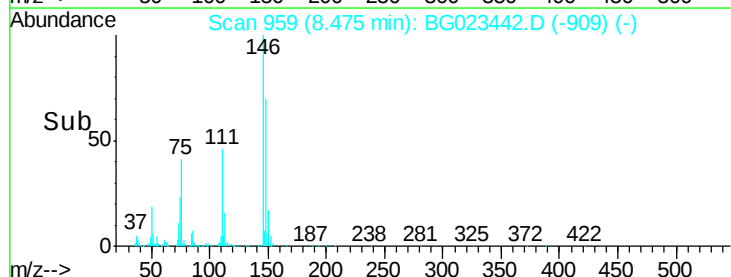
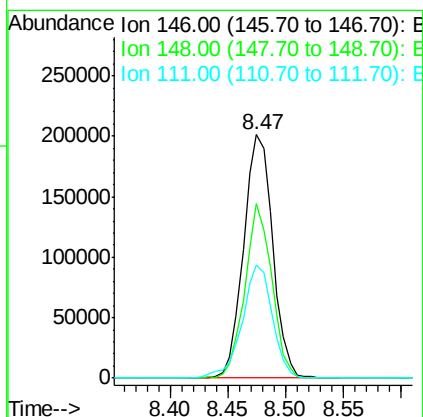
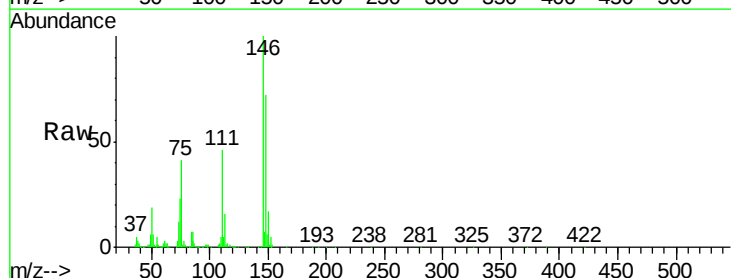
Instrument :
 BNA_G
 ClientSampleId :
 GW-34-7.0-15.0MSD

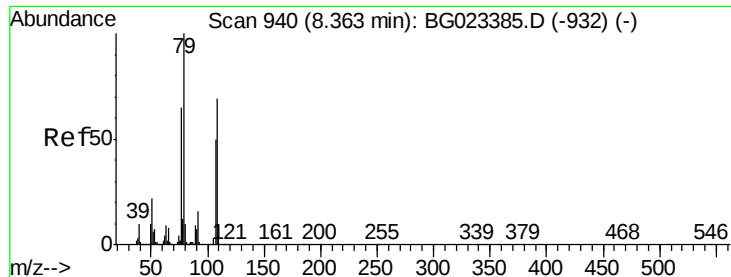
Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.2	54.5	81.7
111	41.9	37.8	56.8



#14
 1,2-Dichlorobenzene
 Concen: 38.80 ng
 RT: 8.47 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BG023442.D
 Acq: 4 Aug 2016 2:02

Tgt Ion	Ratio	Lower	Upper
146	100		
148	71.9	52.9	79.3
111	46.3	43.5	65.3





#15

Benzyl Alcohol

Concen: 35.28 ng

RT: 8.36 min Scan# 939

Delta R.T. -0.01 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

Instrument :

BNA_G

ClientSampleId :

GW-34-7.0-15.0MSD

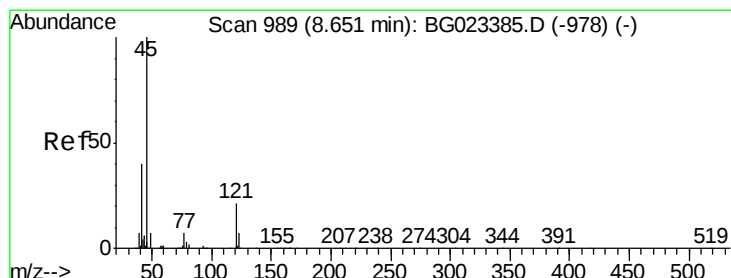
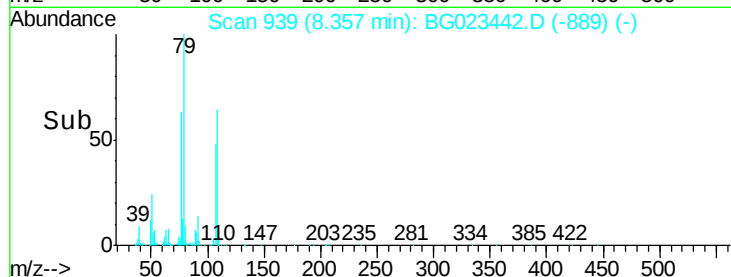
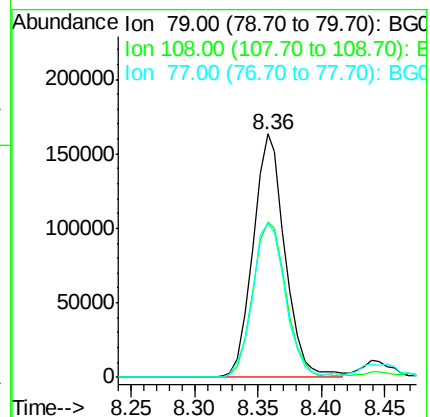
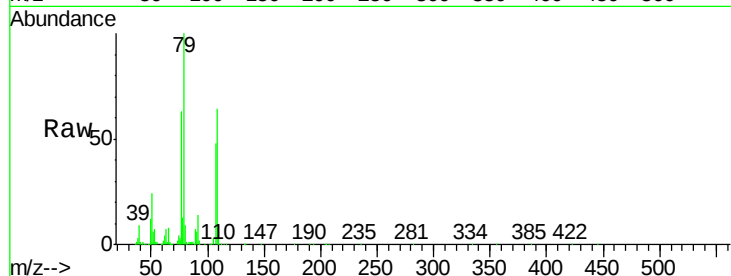
Tgt Ion: 79 Resp: 286328

Ion Ratio Lower Upper

79 100

108 63.7 46.5 69.7

77 63.2 52.3 78.5



#16

2,2'-oxybis(1-Chloropropane)

Concen: 39.99 ng

RT: 8.65 min Scan# 989

Delta R.T. 0.00 min

Lab File: BG023442.D

Acq: 4 Aug 2016 2:02

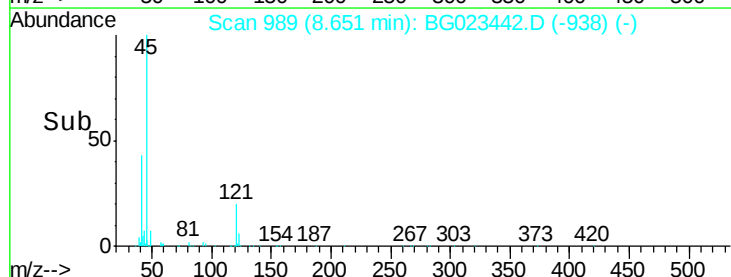
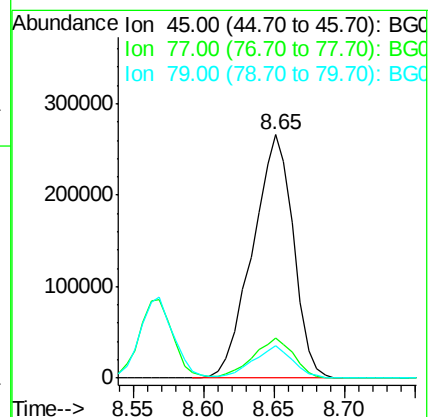
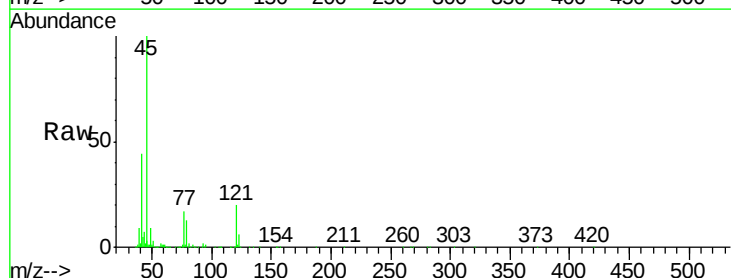
Tgt Ion: 45 Resp: 537583

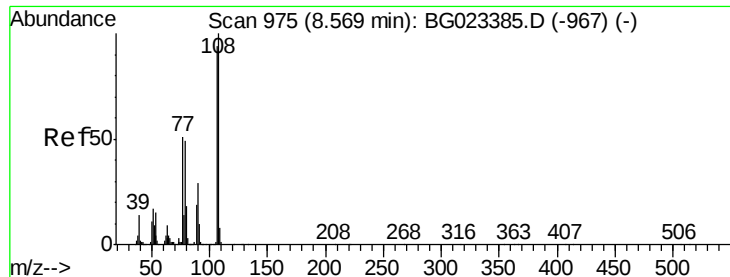
Ion Ratio Lower Upper

45 100

77 16.5 0.6 40.6

79 13.4 0.0 36.2

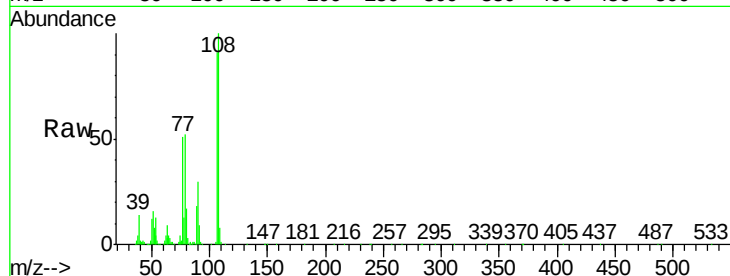




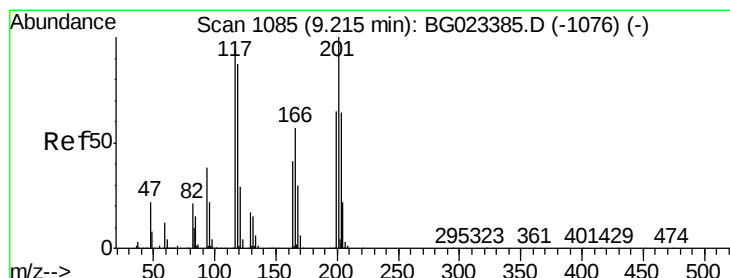
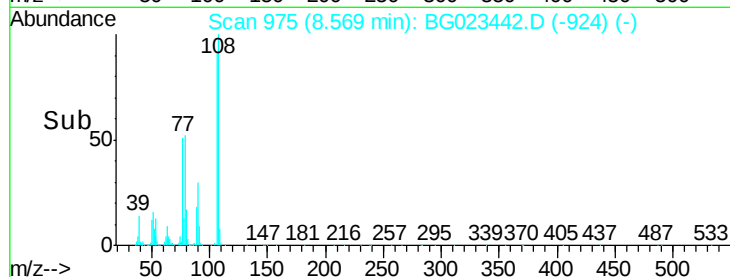
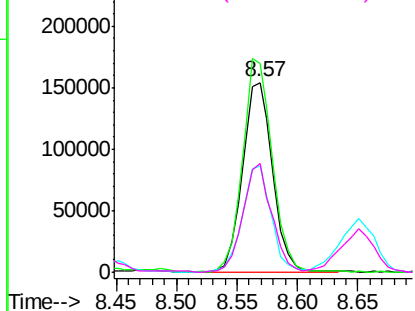
#17
2-Methylphenol
Concen: 34.87 ng
RT: 8.57 min Scan# 975
Delta R.T. 0.00 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

Instrument :
BNA_G
ClientSampleId :
GW-34-7.0-15.0MSD

Tgt Ion:	107	Resp:	267884
Ion	Ratio	Lower	Upper
107	100		
108	110.1	92.0	138.0
77	55.9	55.8	83.6
79	57.2	55.0	82.6

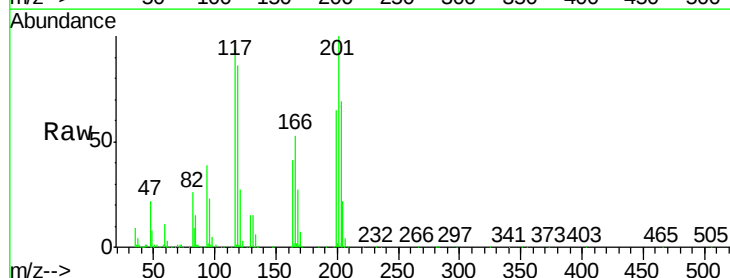


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BGC
Ion 79.00 (78.70 to 79.70): BGC

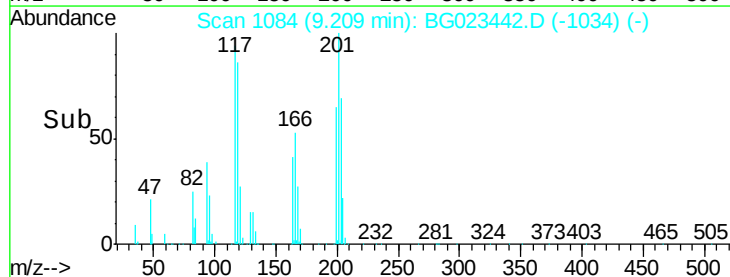
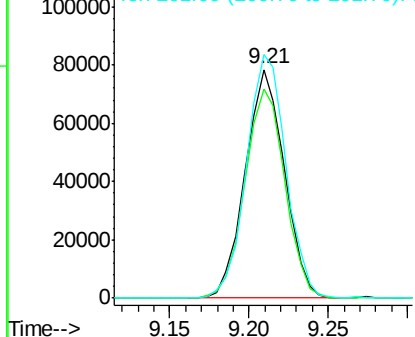


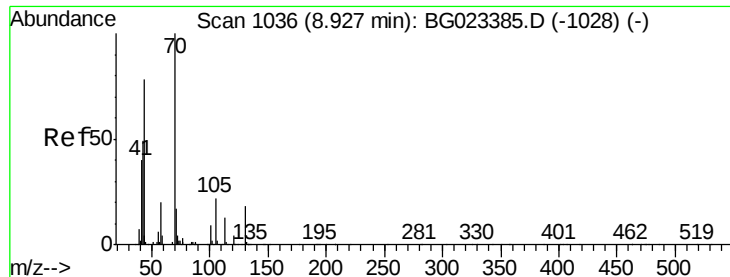
#18
Hexachloroethane
Concen: 38.57 ng
RT: 9.21 min Scan# 1084
Delta R.T. -0.01 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

Tgt Ion:	117	Resp:	134414
Ion	Ratio	Lower	Upper
117	100		
119	91.4	73.7	110.5
201	106.5	88.7	133.1



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

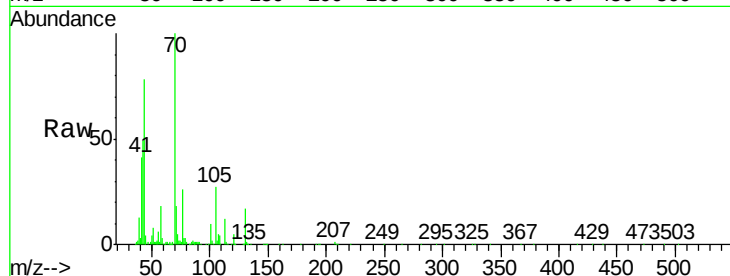




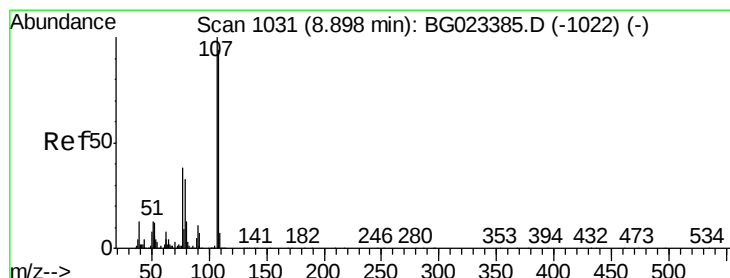
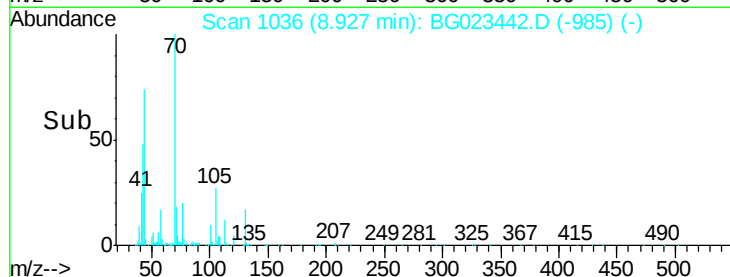
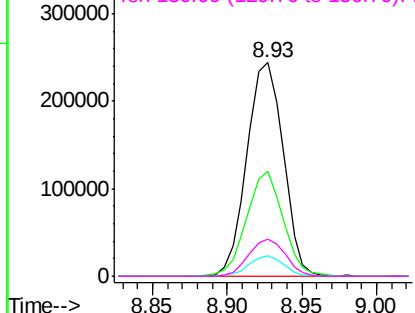
#19
n-Nitroso-di-n-propylamine
Concen: 44.66 ng
RT: 8.93 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

Instrument :
BNA_G
ClientSampleId :
GW-34-7.0-15.0MSD

Tgt Ion:	70	Resp:	411419
Ion	Ratio	Lower	Upper
70	100		
42	49.2	42.1	63.1
101	9.6	7.2	10.8
130	17.3	14.2	21.2

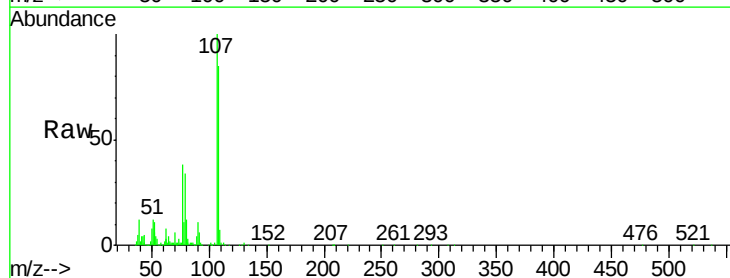


Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC



#20
3+4-Methylphenols
Concen: 31.93 ng
RT: 8.90 min Scan# 1031
Delta R.T. 0.00 min
Lab File: BG023442.D
Acq: 4 Aug 2016 2:02

Tgt Ion:	107	Resp:	345793
Ion	Ratio	Lower	Upper
107	100		
108	85.1	72.5	112.5
77	38.1	30.1	70.1
79	33.6	24.2	64.2



Abundance Ion 107.00 (106.70 to 107.70): BGC
Ion 108.00 (107.70 to 108.70): BGC
Ion 77.00 (76.70 to 77.70): BGC
Ion 79.00 (78.70 to 79.70): BGC

