

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG062516\
 Data File : BG022575.D
 Acq On : 25 Jun 2016 15:26
 Operator : UM/SJ
 Sample : PB91578BS
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PB91578BS

Quant Time: Jun 27 01:08:43 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG062516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 24 20:14:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	121802	20.00	ng	0.00
21) Naphthalene-d8	10.99	136	533125	20.00	ng	0.00
38) Acenaphthene-d10	14.80	164	406202	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	1065269	20.00	ng	0.00
75) Chrysene-d12	21.85	240	1193487	20.00	ng	0.00
86) Perylene-d12	25.21	264	1217520	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.71	112	606275	79.84	ng	0.00
7) Phenol-d6	7.31	99	925404	86.45	ng	0.00
23) Nitrobenzene-d5	9.33	82	937772	74.45	ng	0.00
41) 2,4,6-Tribromophenol	16.29	330	521977	81.70	ng	0.00
44) 2-Fluorobiphenyl	13.42	172	1864438	72.79	ng	0.00
78) Terphenyl-d14	20.16	244	2964589	65.81	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.58	88	89080	28.94	ng	94
3) Pyridine	3.99	79	290236	33.71	ng	98
4) n-Nitrosodimethylamine	3.90	42	171391	34.80	ng	# 99
6) Aniline	7.48	93	463548	32.66	ng	95
8) 2-Chlorophenol	7.72	128	333681	42.42	ng	99
10) Phenol	7.34	94	511676	45.23	ng	96
11) bis(2-Chloroethyl)ether	7.58	93	345472	37.10	ng	96
12) 1,3-Dichlorobenzene	8.05	146	341667	35.69	ng	97
13) 1,4-Dichlorobenzene	8.20	146	349026	36.37	ng	96
14) 1,2-Dichlorobenzene	8.52	146	332329	36.42	ng	93
15) Benzyl Alcohol	8.40	79	442881	44.72	ng	97
16) 2,2'-oxybis(1-Chloropropan	8.70	45	395945	38.44	ng	98
17) 2-Methylphenol	8.60	107	313075	41.98	ng	92
18) Hexachloroethane	9.26	117	143405	36.10	ng	96
19) n-Nitroso-di-n-propylamine	8.97	70	360220	40.41	ng	93
20) 3+4-Methylphenols	8.93	107	454947	44.29	ng	98
22) Acetophenone	8.99	105	587002	38.09	ng	# 94
24) Nitrobenzene	9.38	77	520750	37.41	ng	95
25) Isophorone	9.90	82	915705	37.45	ng	99
26) 2-Nitrophenol	10.09	139	202563	40.39	ng	94
27) 2,4-Dimethylphenol	10.14	122	366501	38.25	ng	94
28) bis(2-Chloroethoxy)methane	10.39	93	516408	38.68	ng	99
29) 2,4-Dichlorophenol	10.63	162	406746	43.58	ng	99
30) 1,2,4-Trichlorobenzene	10.85	180	405750	36.61	ng	94
31) Naphthalene	11.04	128	1014058	37.84	ng	99
32) Benzoic acid	10.27	122	276378	44.54	ng	98
33) 4-Chloroaniline	11.15	127	119687	10.37	ng	# 91
34) Hexachlorobutadiene	11.33	225	315877	36.67	ng	98
35) Caprolactam	11.92	113	98196	33.39	ng	# 91
36) 4-Chloro-3-methylphenol	12.25	107	503023	43.90	ng	96
37) 2-Methylnaphthalene	12.64	142	798590	38.43	ng	98
39) 1,2,4,5-Tetrachlorobenzene	13.00	216	534942	34.88	ng	98
40) Hexachlorocyclopentadiene	12.98	237	797164	65.12	ng	99
42) 2,4,6-Trichlorophenol	13.23	196	387442	39.40	ng	96

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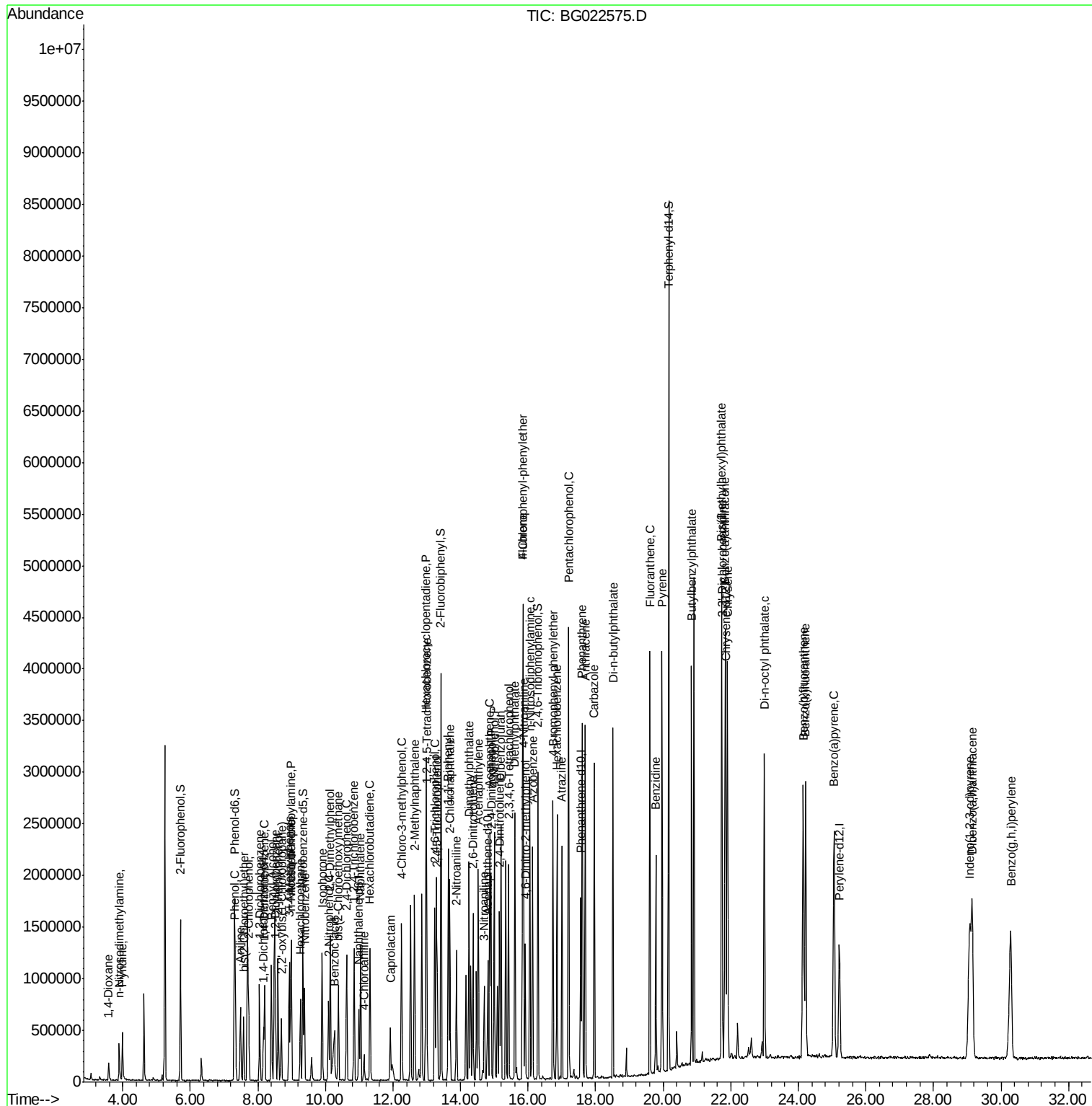
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2,4,5-Trichlorophenol	13.31	196	419198	40.74	ng	94
45) 1,1'-Biphenyl	13.63	154	1147207	37.07	ng	99
46) 2-Chloronaphthalene	13.68	162	917908	36.05	ng	97
47) 2-Nitroaniline	13.88	65	390235	39.71	ng	97
48) Acenaphthylene	14.53	152	1386671	37.55	ng	98
49) Dimethylphthalate	14.25	163	1275410	37.85	ng	98
50) 2,6-Dinitrotoluene	14.37	165	293367	40.07	ng	95
51) Acenaphthene	14.87	154	951246	34.97	ng	99
52) 3-Nitroaniline	14.70	138	181195	26.45	ng	94
53) 2,4-Dinitrophenol	14.90	184	397415	88.12	ng	95
54) Dibenzofuran	15.20	168	1487996	37.76	ng	99
55) 4-Nitrophenol	15.00	139	486827	84.03	ng	96
56) 2,4-Dinitrotoluene	15.16	165	433845	42.77	ng	96
57) Fluorene	15.85	166	1223078	38.90	ng	94
58) 2,3,4,6-Tetrachlorophenol	15.42	232	445901	41.80	ng	99
59) Diethylphthalate	15.61	149	1348096	38.91	ng	96
60) 4-Chlorophenyl-phenylether	15.84	204	729155	38.95	ng	99
61) 4-Nitroaniline	15.87	138	290206	41.05	ng	92
62) Azobenzene	16.13	77	1385384	36.93	ng	95
64) 4,6-Dinitro-2-methylphenol	15.92	198	292402	40.93	ng	97
65) n-Nitrosodiphenylamine	16.05	169	1155143	37.26	ng	96
66) 4-Bromophenyl-phenylether	16.74	248	507167	36.70	ng	98
67) Hexachlorobenzene	16.85	284	531611	36.38	ng	96
68) Atrazine	17.00	200	436740	33.37	ng	99
69) Pentachlorophenol	17.20	266	785333	78.09	ng	99
70) Phenanthrene	17.60	178	2045903	37.66	ng	97
71) Anthracene	17.69	178	2042433	36.53	ng	97
72) Carbazole	17.96	167	1864002	39.33	ng	99
73) Di-n-butylphthalate	18.51	149	2160340	39.14	ng	98
74) Fluoranthene	19.60	202	2439850	38.98	ng	97
76) Benzidine	19.78	184	1182713	93.08	ng	99
77) Pyrene	19.97	202	2479067	39.00	ng	96
79) Butylbenzylphthalate	20.84	149	1094032	39.76	ng	98
80) Benzo(a)anthracene	21.84	228	2580232	39.07	ng	99
81) 3,3'-Dichlorobenzidine	21.74	252	589254	21.60	ng	# 95
82) Chrysene	21.90	228	2462596	39.68	ng	95
83) Bis(2-ethylhexyl)phthalate	21.73	149	1458428	37.64	ng	100
84) Di-n-octyl phthalate	22.99	149	2423866	37.95	ng	99
85) Indeno(1,2,3-cd)pyrene	29.07	276	3160269	38.75	ng	# 100
87) Benzo(b)fluoranthene	24.15	252	2867947	39.17	ng	99
88) Benzo(k)fluoranthene	24.22	252	2680369	38.73	ng	# 95
89) Benzo(a)pyrene	25.06	252	2776527	38.90	ng	# 99
90) Dibenzo(a,h)anthracene	29.14	278	2669919	39.74	ng	# 95
91) Benzo(g,h,i)perylene	30.29	276	2660363	38.90	ng	# 95

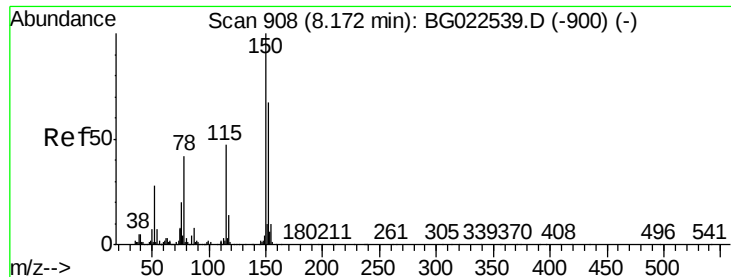
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.16 min Scan# 906

Delta R.T. -0.01 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

Instrument :

BNA_G

ClientSampleId :

PB91578BS

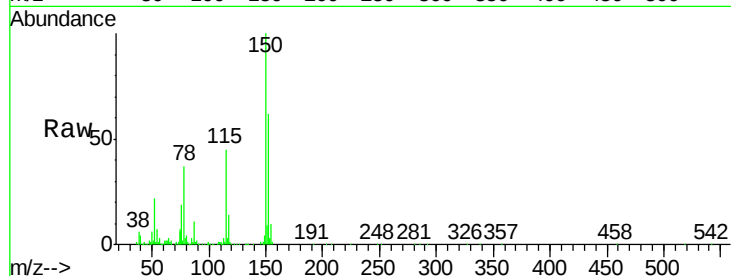
Tgt Ion:152 Resp: 121802

Ion Ratio Lower Upper

152 100

150 160.6 144.7 217.1

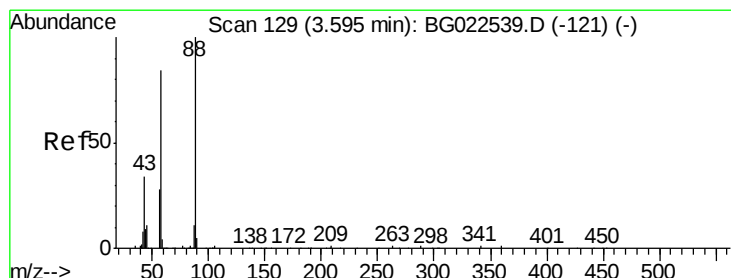
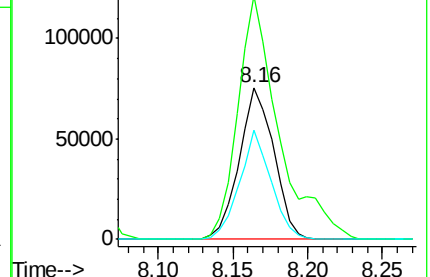
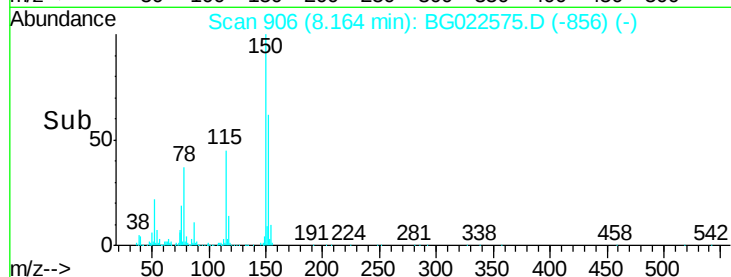
115 71.6 64.0 96.0



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: 28.94 ng

RT: 3.58 min Scan# 126

Delta R.T. -0.01 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

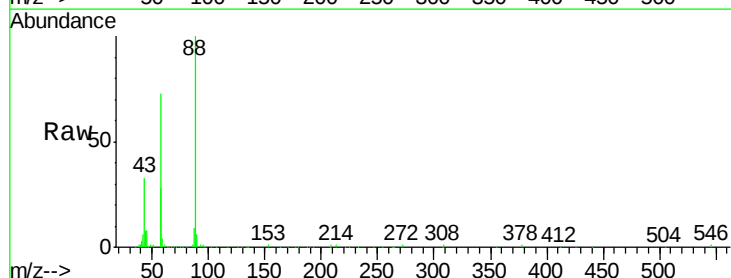
Tgt Ion: 88 Resp: 89080

Ion Ratio Lower Upper

88 100

58 79.0 60.4 90.6

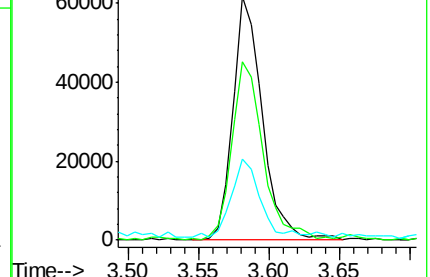
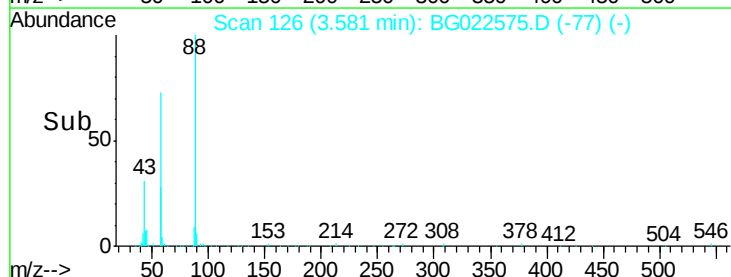
43 32.5 31.1 46.7

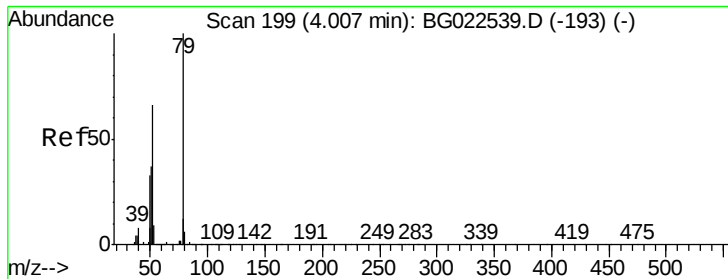


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 33.71 ng

RT: 3.99 min Scan# 195

Delta R.T. -0.02 min

Lab File: BG022575.D

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BNA_G

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PB91578BS

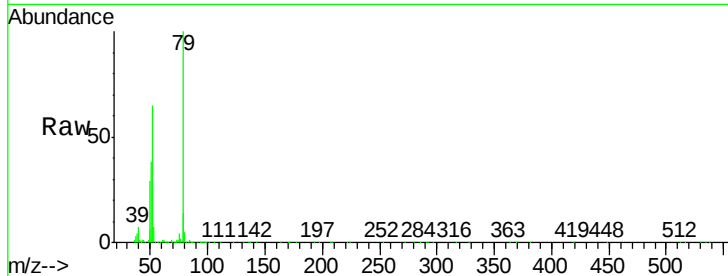
Tgt Ion: 79 Resp: 290236

Ion Ratio Lower Upper

79 100

52 64.6 51.8 77.8

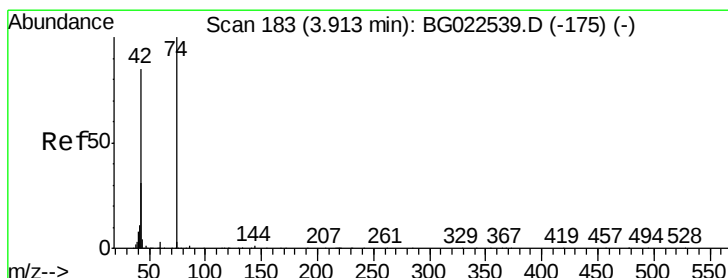
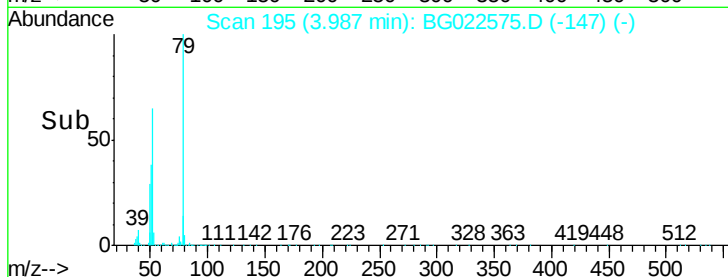
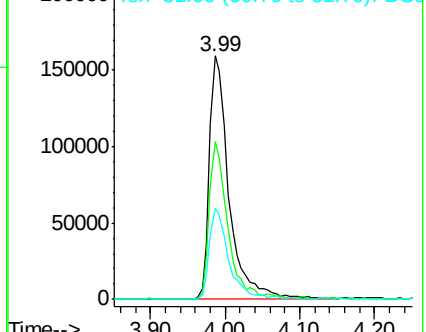
51 37.5 32.7 49.1



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: 34.80 ng

RT: 3.90 min Scan# 180

Delta R.T. -0.01 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

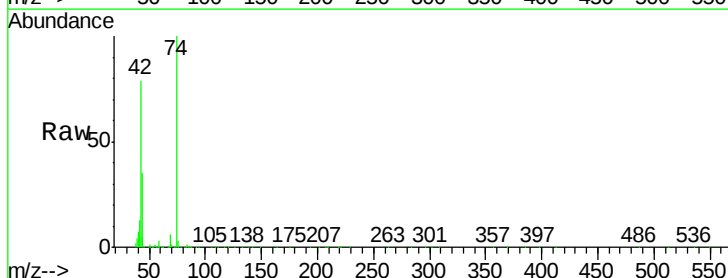
Tgt Ion: 42 Resp: 171391

Ion Ratio Lower Upper

42 100

74 126.3 100.6 150.8

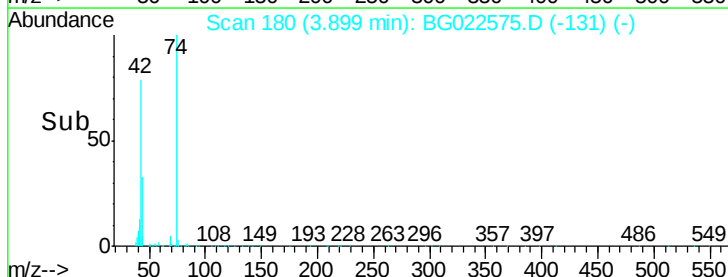
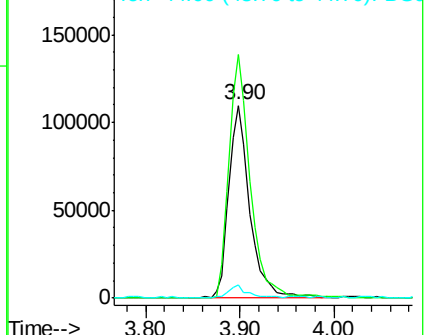
44 6.9 4.5 6.7#

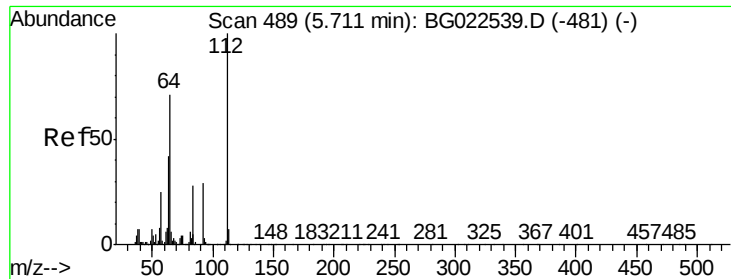


Abundance Ion 42.00 (41.70 to 42.70): BGC

Ion 74.00 (73.70 to 74.70): BGC

Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 79.84 ng

RT: 5.71 min Scan# 488

Delta R.T. 0.00 min

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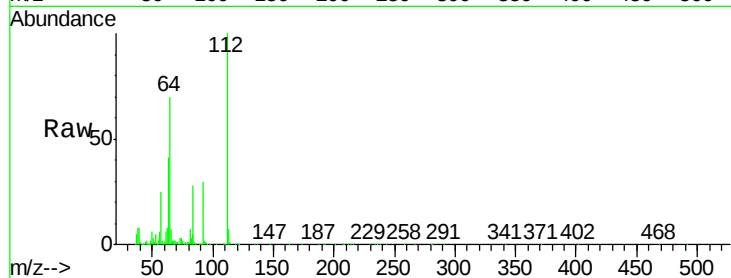
Tgt Ion: 112 Resp: 606275

Ion Ratio Lower Upper

112 100

64 69.6 59.0 88.4

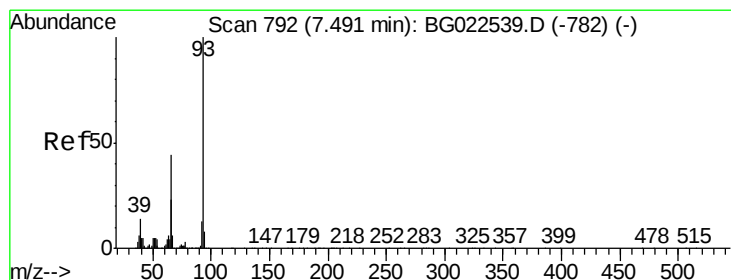
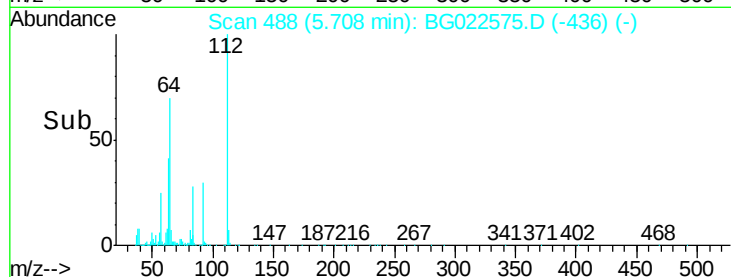
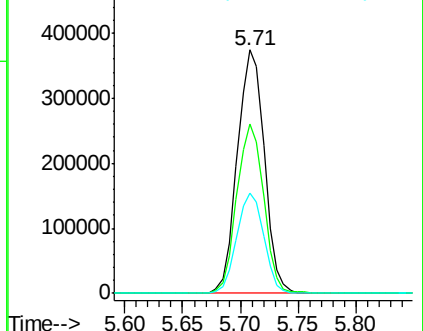
63 41.2 37.8 56.8



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: 32.66 ng

RT: 7.48 min Scan# 790

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

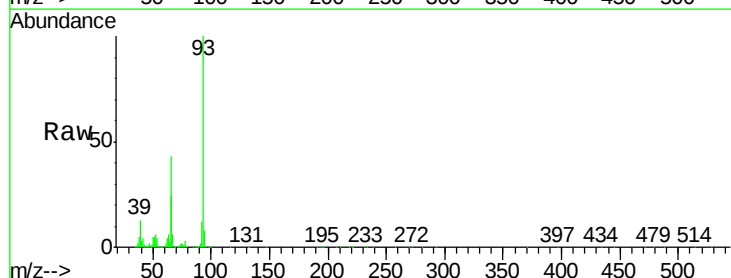
Tgt Ion: 93 Resp: 463548

Ion Ratio Lower Upper

93 100

66 42.5 37.5 56.3

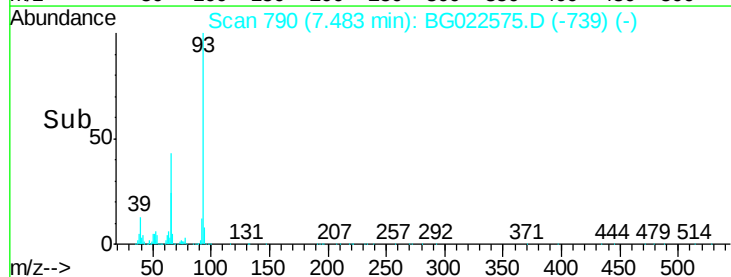
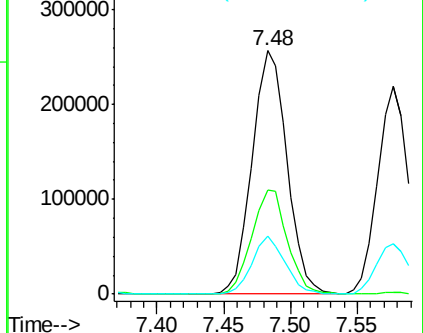
65 23.9 17.9 26.9



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: 86.45 ng

RT: 7.31 min Scan# 761

Delta R.T. 0.01 min

Lab File: BG022575.D

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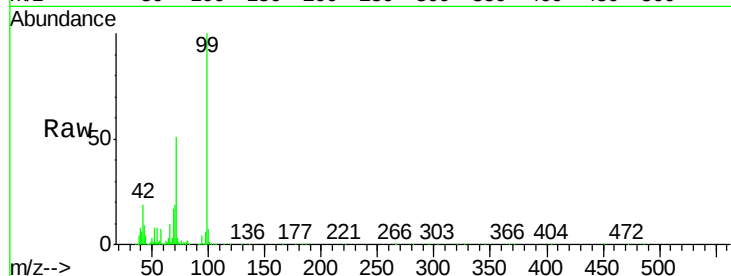
Tgt Ion: 99 Resp: 925404

Ion Ratio Lower Upper

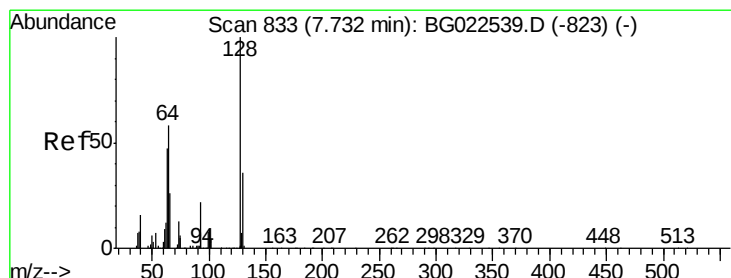
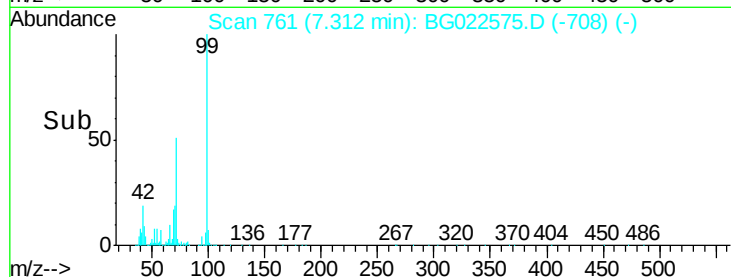
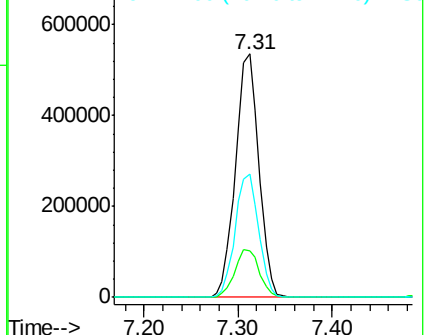
99 100

42 19.3 17.8 26.6

71 50.8 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: 42.42 ng

RT: 7.72 min Scan# 831

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

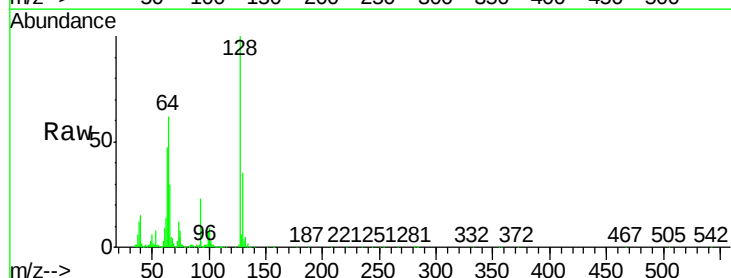
Tgt Ion: 128 Resp: 333681

Ion Ratio Lower Upper

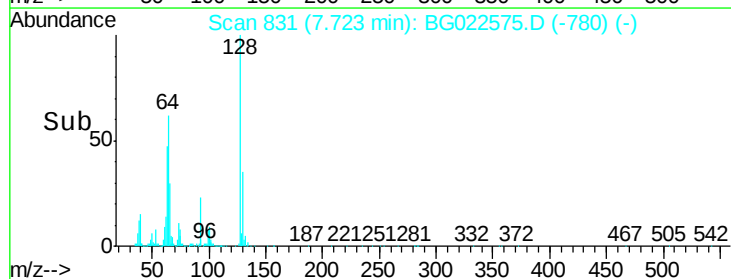
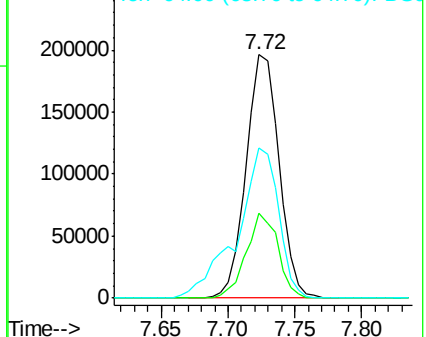
128 100

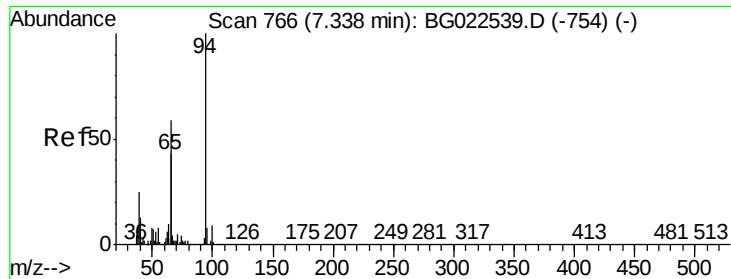
130 34.8 12.9 52.9

64 61.9 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





#10

Phenol

Concen: 45.23 ng

RT: 7.34 min Scan# 765

Delta R.T. 0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

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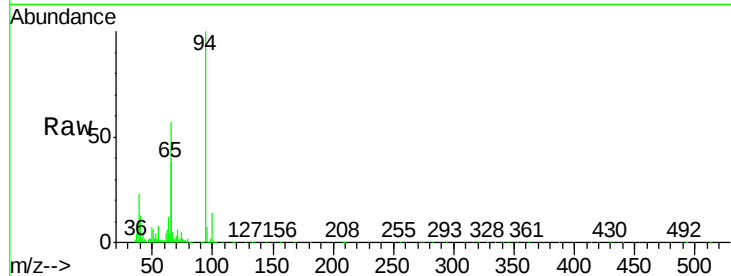
Tgt Ion: 94 Resp: 511676

Ion Ratio Lower Upper

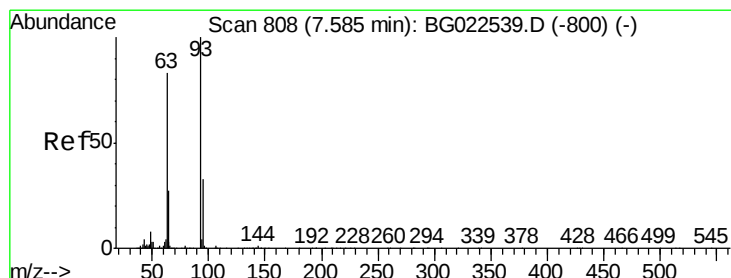
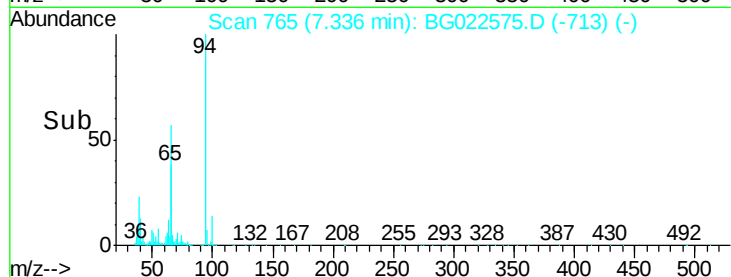
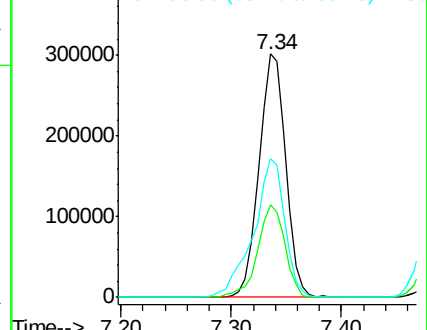
94 100

65 38.1 18.1 58.1

66 57.2 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: 37.10 ng

RT: 7.58 min Scan# 806

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

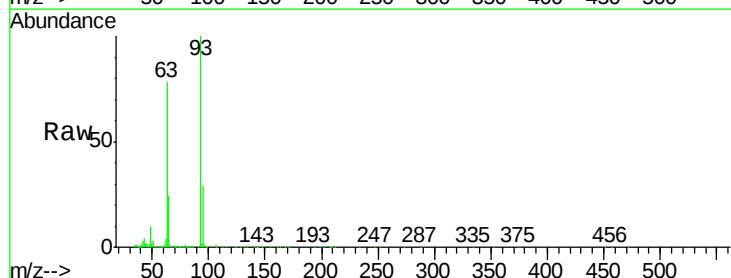
Tgt Ion: 93 Resp: 345472

Ion Ratio Lower Upper

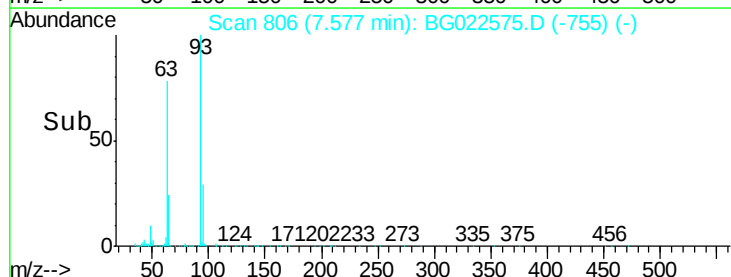
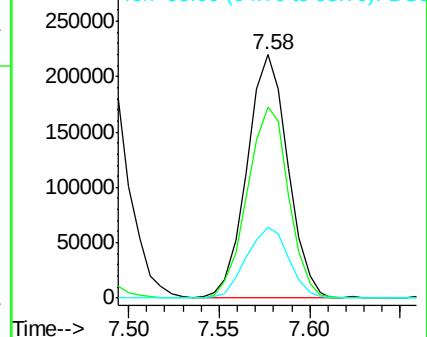
93 100

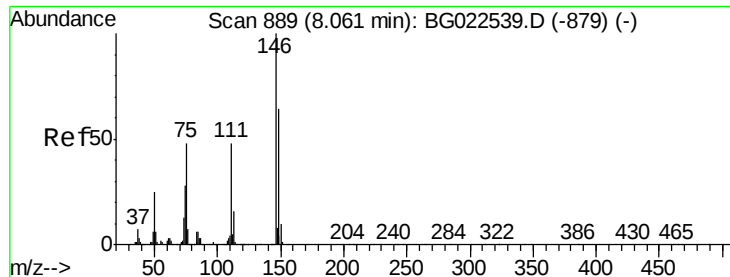
63 78.3 55.0 95.0

95 29.3 11.0 51.0



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





#12

1,3-Dichlorobenzene

Concen: 35.69 ng

RT: 8.05 min Scan# 887

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

Instrument :

BNA_G

ClientSampleId :

PB91578BS

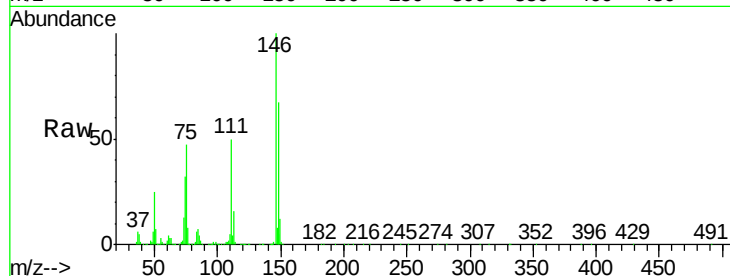
Tgt Ion:146 Resp: 341667

Ion Ratio Lower Upper

146 100

148 67.1 50.3 75.5

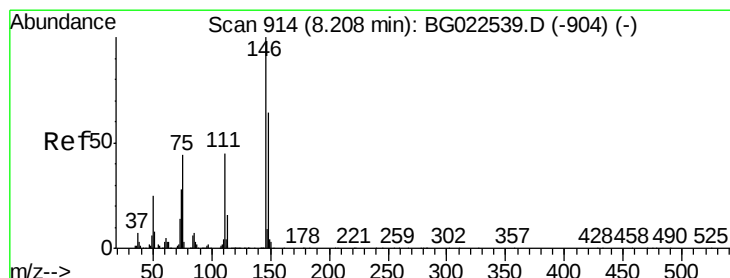
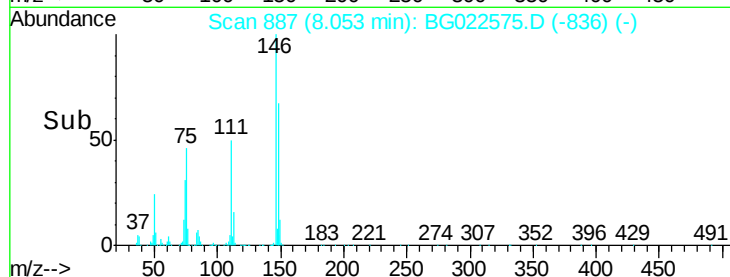
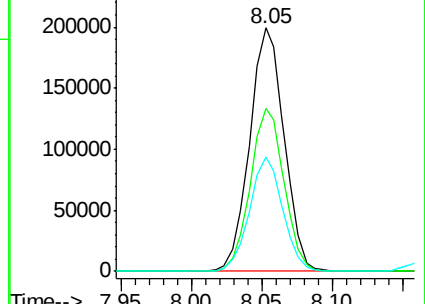
75 46.9 37.0 55.6



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): B



#13

1,4-Dichlorobenzene

Concen: 36.37 ng

RT: 8.20 min Scan# 912

Delta R.T. -0.01 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

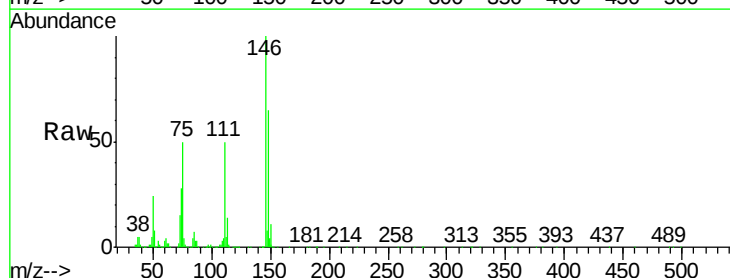
Tgt Ion:146 Resp: 349026

Ion Ratio Lower Upper

146 100

148 64.7 54.5 81.7

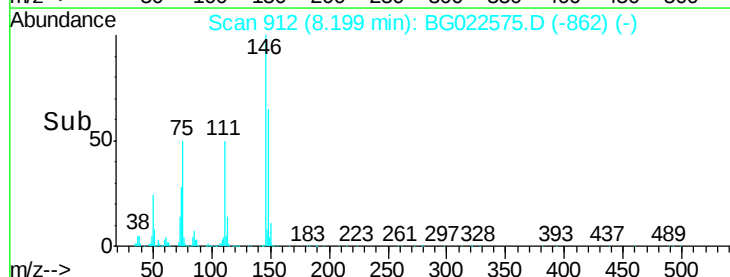
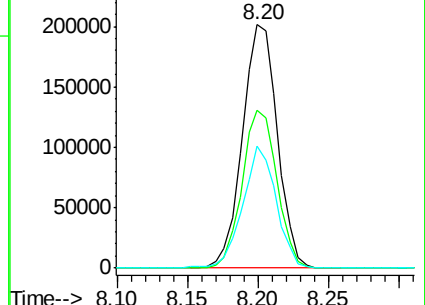
111 49.9 37.8 56.8

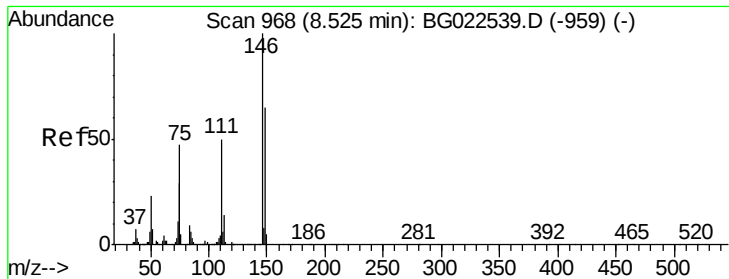


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 36.42 ng

RT: 8.52 min Scan# 967

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

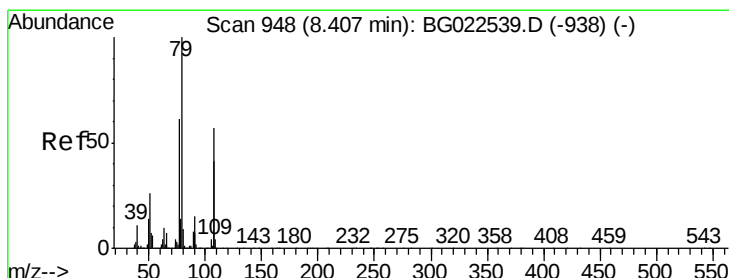
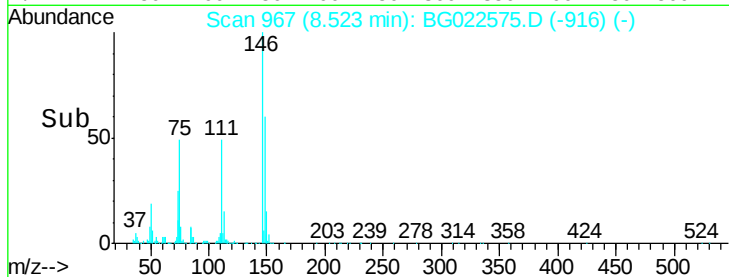
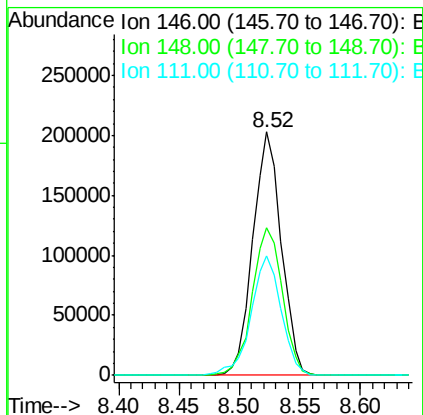
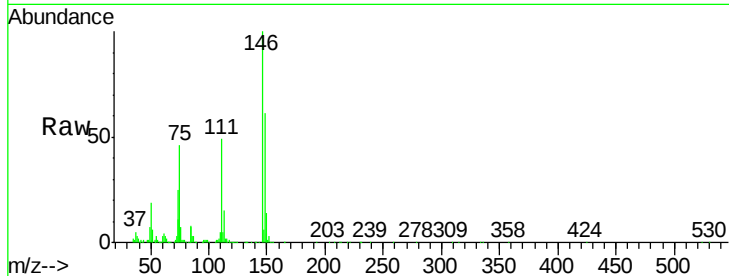
Instrument :

BNA_G

ClientSampleId :

PB91578BS

Tgt Ion:	146	Resp:	332329
Ion	Ratio	Lower	Upper
146	100		
148	60.6	52.9	79.3
111	49.2	43.5	65.3



#15

Benzyl Alcohol

Concen: 44.72 ng

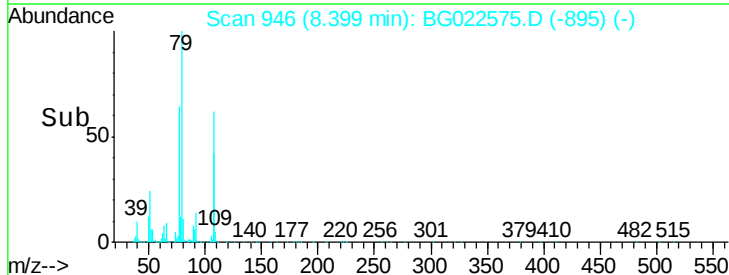
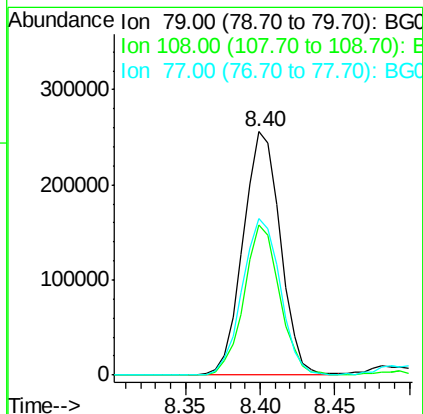
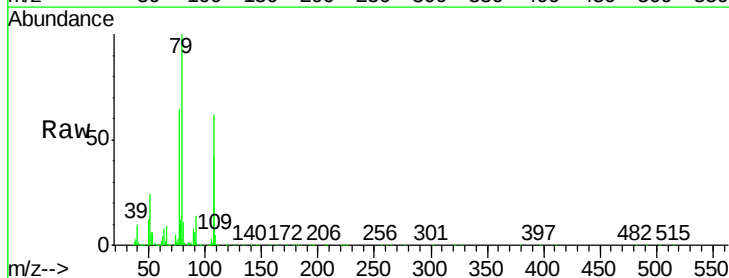
RT: 8.40 min Scan# 946

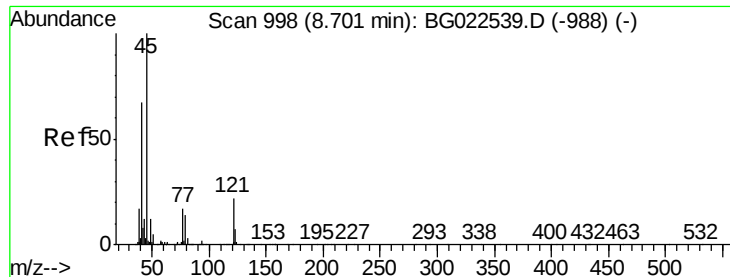
Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

Tgt Ion:	79	Resp:	442881
Ion	Ratio	Lower	Upper
79	100		
108	61.9	46.5	69.7
77	64.0	52.3	78.5

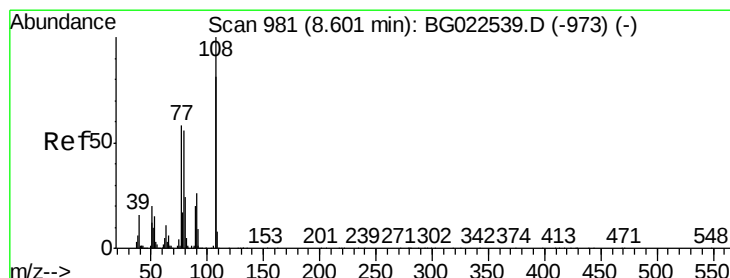
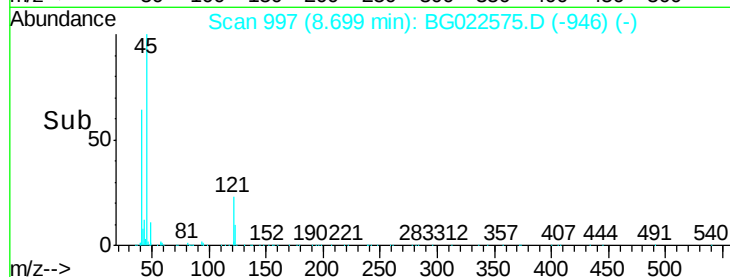
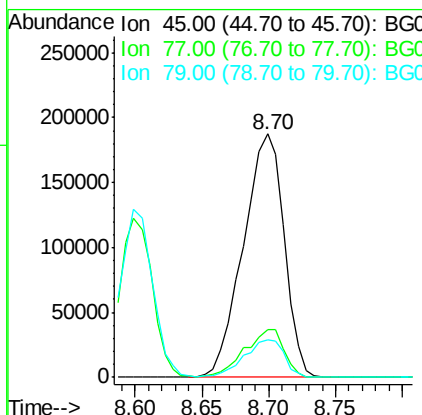
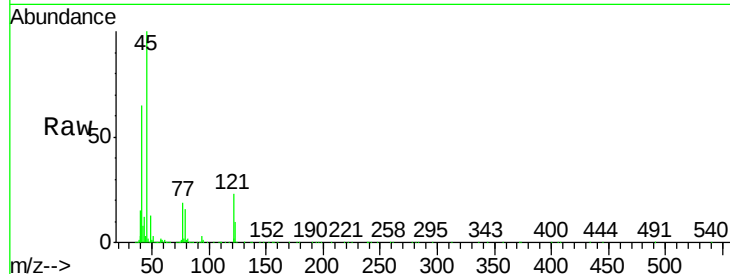




#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.44 ng
RT: 8.70 min Scan# 997
Delta R.T. -0.00 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

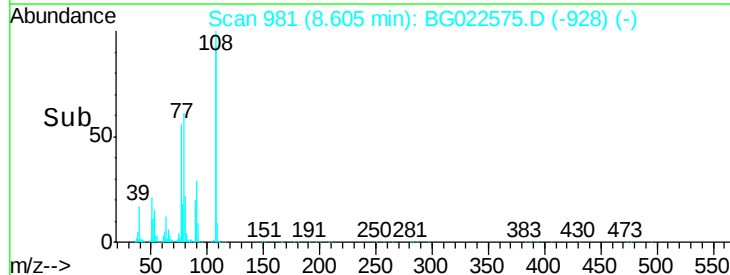
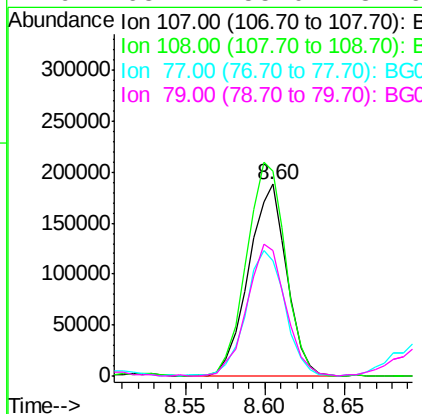
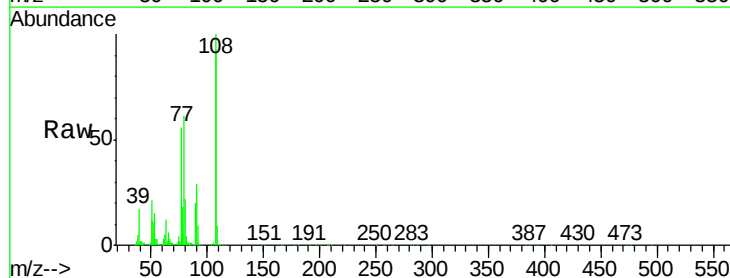
Instrument :
BNA_G
ClientSampleId :
PB91578BS

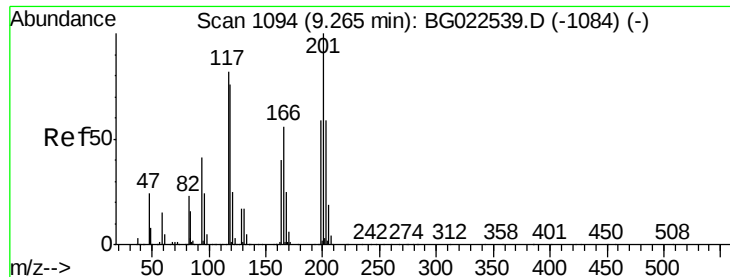
Tgt Ion:	45	Resp:	395945
Ion	Ratio	Lower	Upper
45	100		
77	19.4	0.6	40.6
79	15.5	0.0	36.2



#17
2-Methylphenol
Concen: 41.98 ng
RT: 8.60 min Scan# 981
Delta R.T. 0.01 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

Tgt Ion:	107	Resp:	313075
Ion	Ratio	Lower	Upper
107	100		
108	107.0	92.0	138.0
77	60.2	55.8	83.6
79	65.4	55.0	82.6

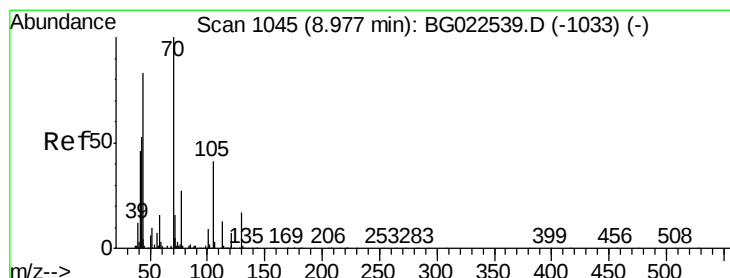
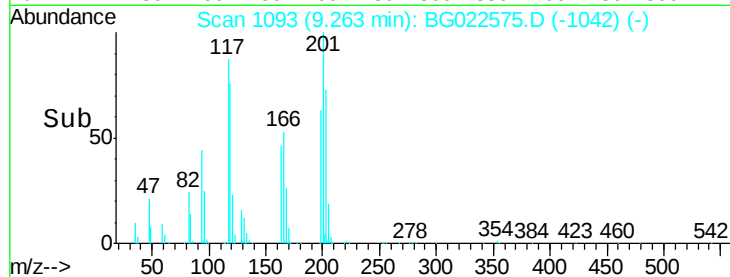
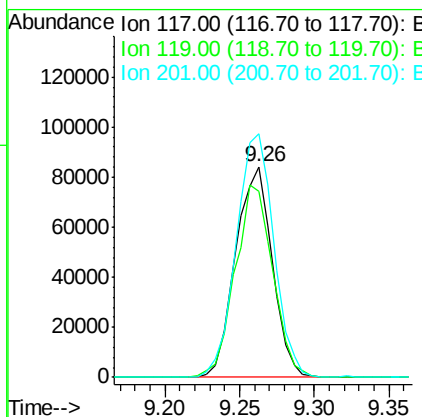
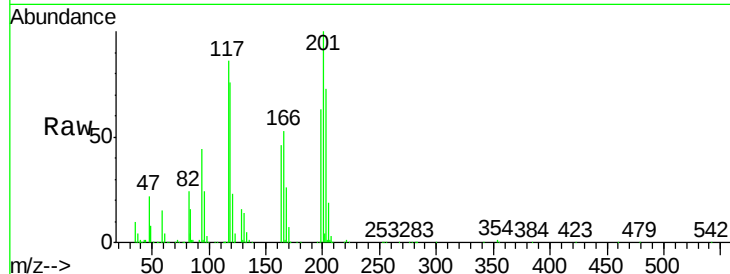




#18
Hexachloroethane
Concen: 36.10 ng
RT: 9.26 min Scan# 1093
Delta R.T. -0.00 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

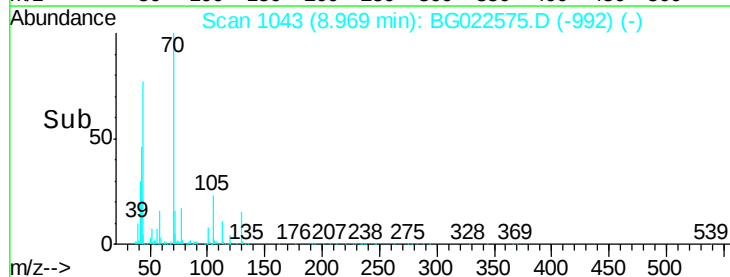
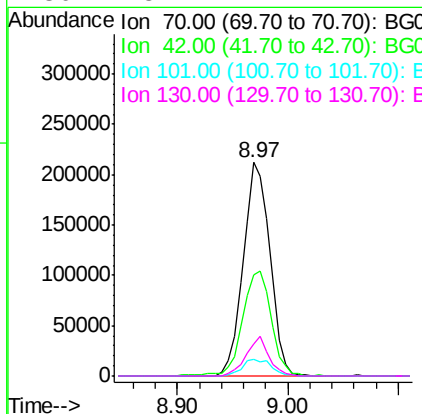
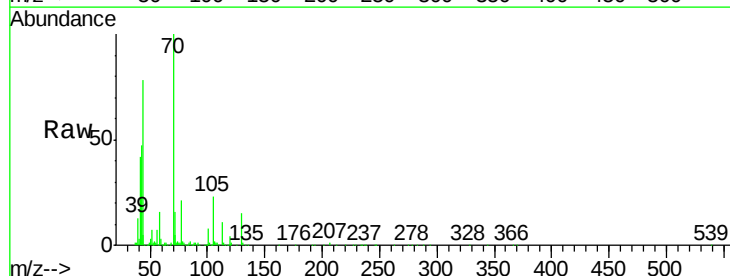
Instrument :
BNA_G
ClientSampleId :
PB91578BS

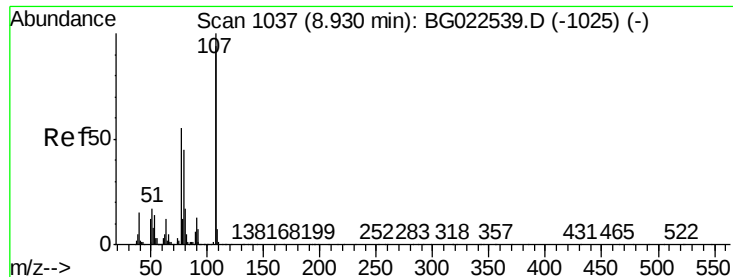
Tgt Ion: 117 Resp: 143405
Ion Ratio Lower Upper
117 100
119 88.2 73.7 110.5
201 115.7 88.7 133.1



#19
n-Nitroso-di-n-propylamine
Concen: 40.41 ng
RT: 8.97 min Scan# 1043
Delta R.T. -0.00 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

Tgt Ion: 70 Resp: 360220
Ion Ratio Lower Upper
70 100
42 47.4 42.1 63.1
101 7.6 7.2 10.8
130 15.1 14.2 21.2

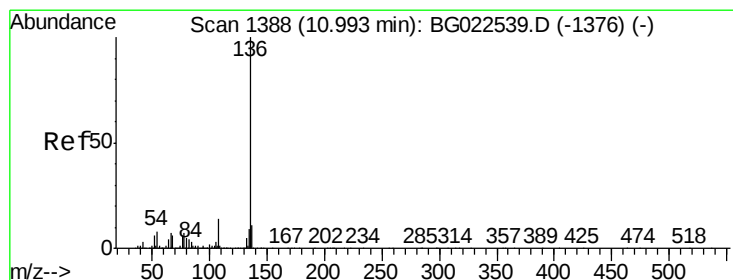
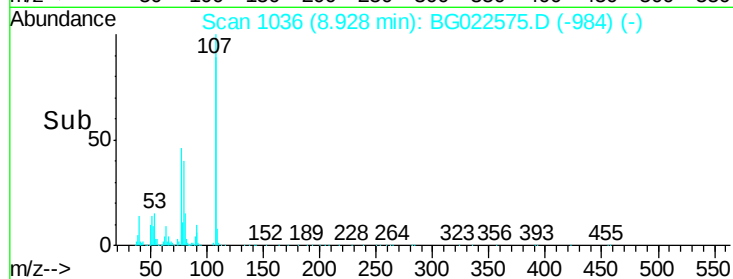
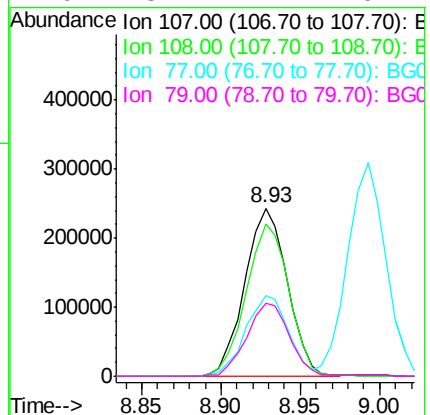
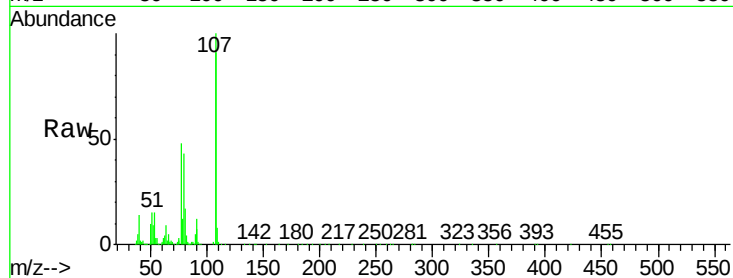




#20
3+4-Methylphenols
Concen: 44.29 ng
RT: 8.93 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

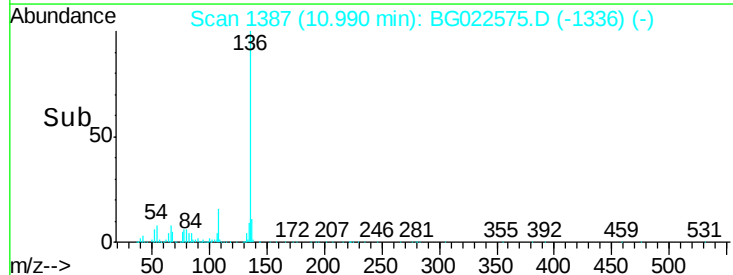
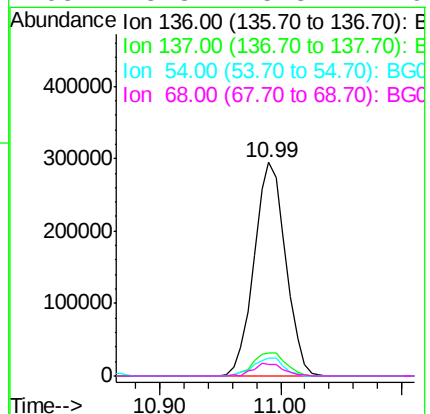
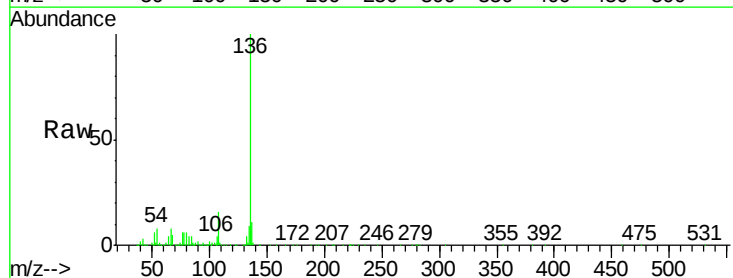
Instrument :
BNA_G
ClientSampleId :
PB91578BS

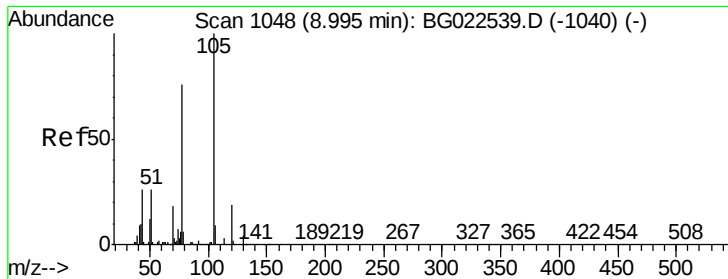
Tgt Ion:	107	Resp:	454947
Ion	Ratio	Lower	Upper
107	100		
108	90.8	72.5	112.5
77	47.9	30.1	70.1
79	43.2	24.2	64.2



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.99 min Scan# 1387
Delta R.T. -0.00 min
Lab File: BG022575.D
Acq: 25 Jun 2016 15:26

Tgt Ion:	136	Resp:	533125
Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.6	14.4
54	8.1	7.3	10.9
68	5.3	5.3	7.9





#22

Acetophenone

Concen: 38.09 ng

RT: 8.99 min Scan# 1047

Delta R.T. 0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

Instrument :

BNA_G

ClientSampleId :

PB91578BS

Tgt Ion:105 Resp: 587002

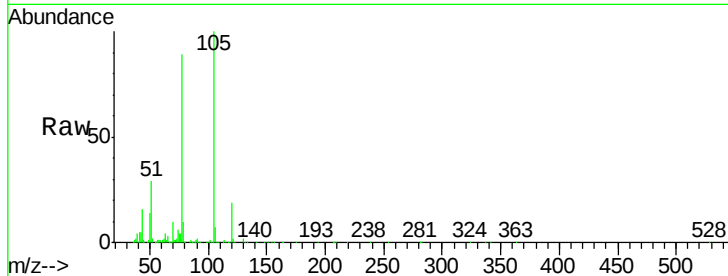
Ion Ratio Lower Upper

105 100

71 1.3 2.6 3.8#

51 28.7 27.1 40.7

120 18.6 15.1 22.7

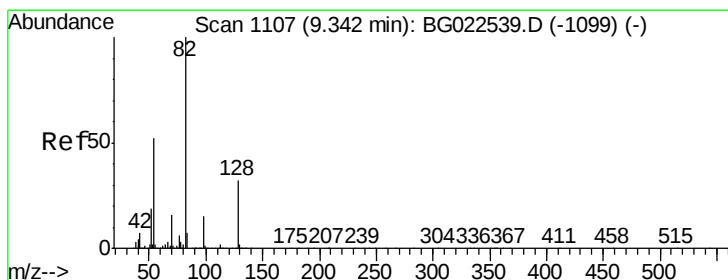
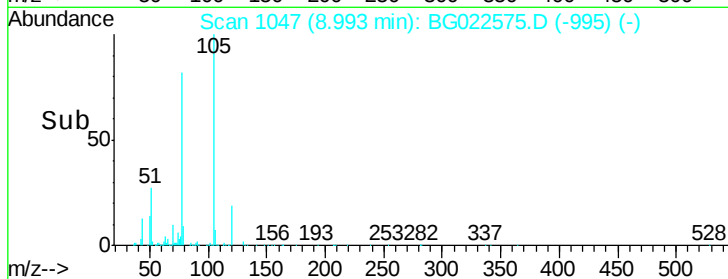
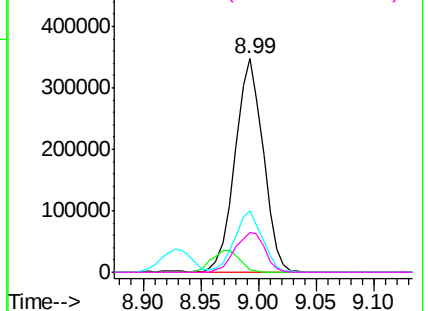


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BG0

Ion 51.00 (50.70 to 51.70): BG0

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 74.45 ng

RT: 9.33 min Scan# 1105

Delta R.T. -0.00 min

Lab File: BG022575.D

Acq: 25 Jun 2016 15:26

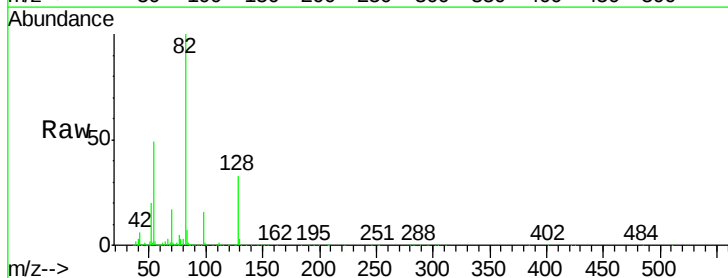
Tgt Ion: 82 Resp: 937772

Ion Ratio Lower Upper

82 100

128 33.3 24.4 36.6

54 49.2 41.4 62.0



Abundance Ion 82.00 (81.70 to 82.70): BG0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BG0

