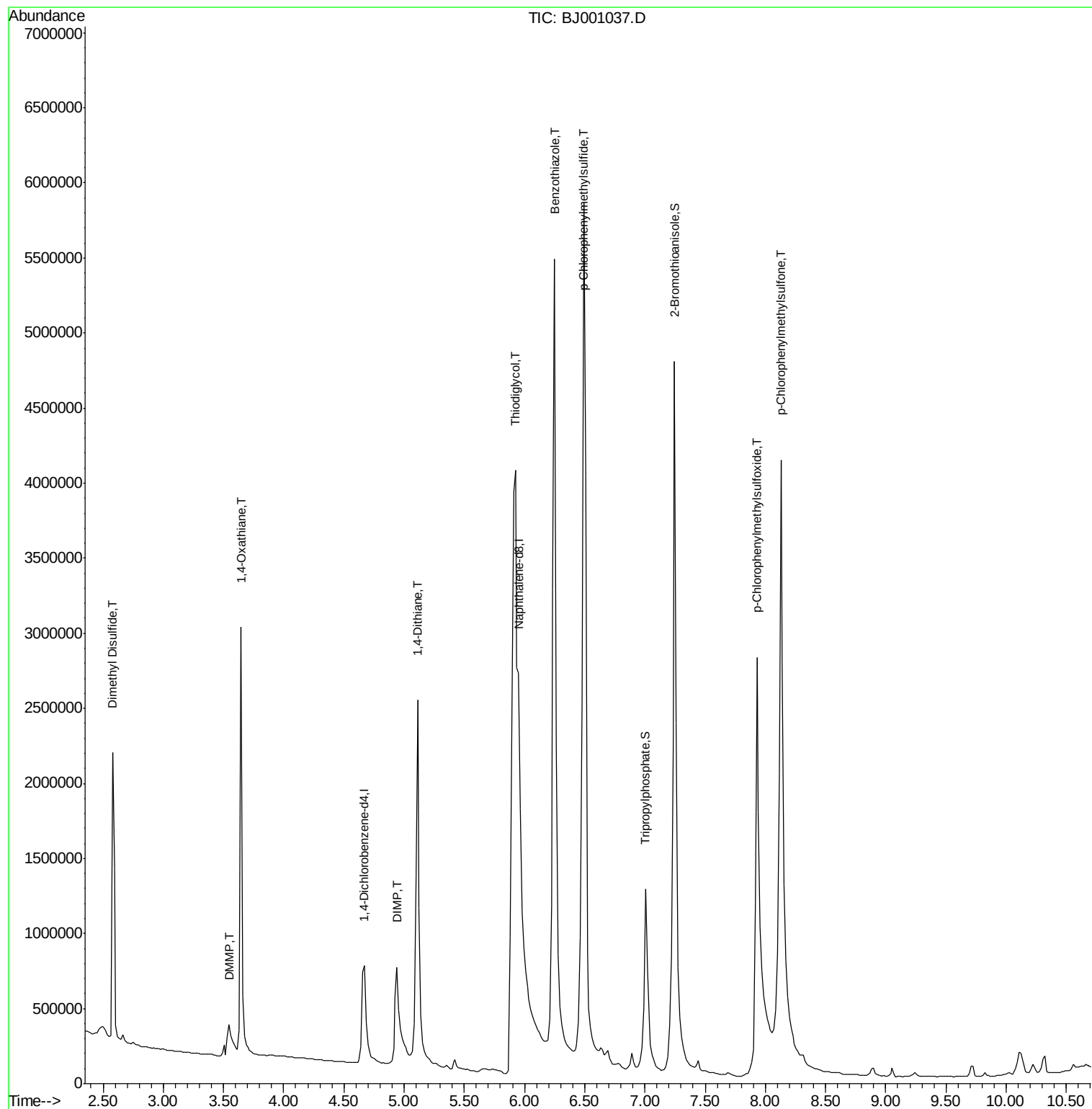
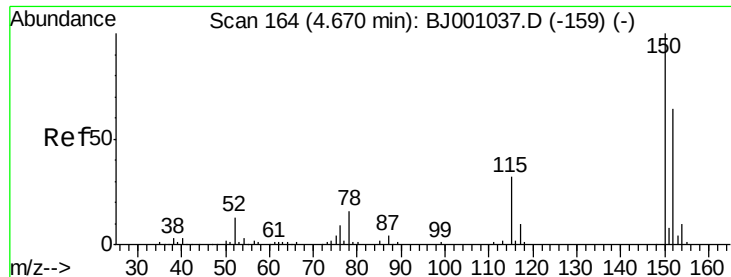


Data Path : Z:\HPCHEM1\BNA_J\DATA\BJ072012\
Data File : BJ001037.D
Acq On : 20 Jul 2012 12:24
Operator : HLM
Sample : CWA-4
Misc : BNA_J HLM
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 02:52:53 2012
Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ072012.M
Quant Title : CWA degradation products by GCMS
QLast Update : Fri Jul 20 13:59:18 2012
Response via : Initial Calibration

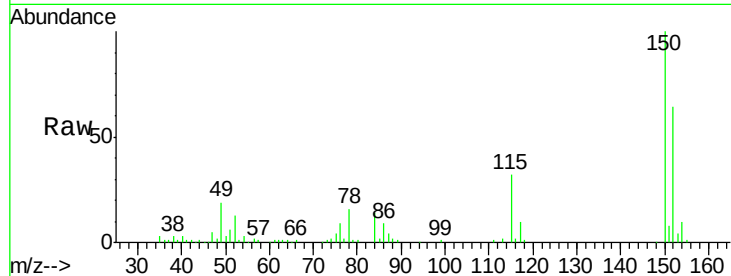




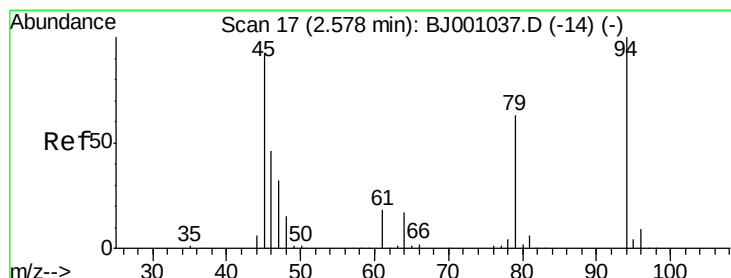
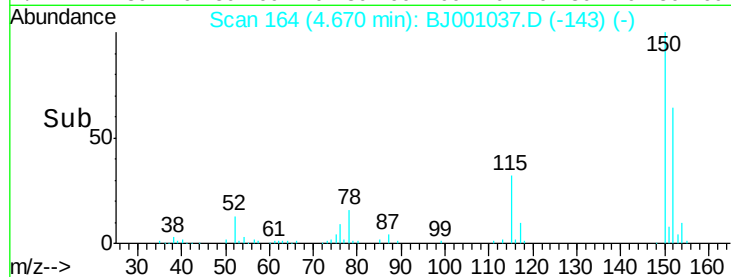
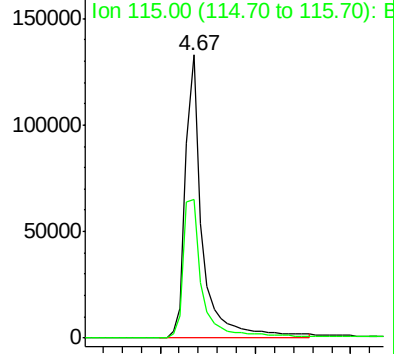
#1

1,4-Dichlorobenzene-d4
 Concen: 2.00 ug/mL
 RT: 4.67 min Scan# 164
 Delta R.T. 0.00 min
 Lab File: BJ001037.D
 Acq: 20 Jul 2012 12:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.0	29.0	69.0



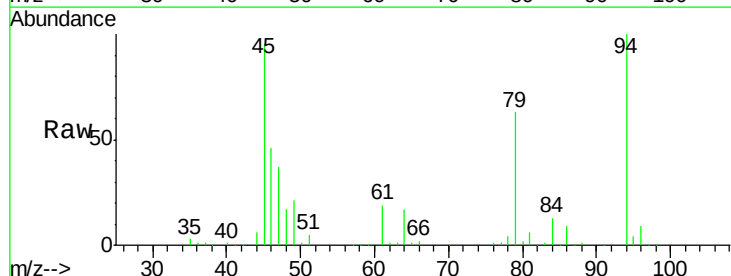
Abundance Ion 152.00 (151.70 to 152.70): B



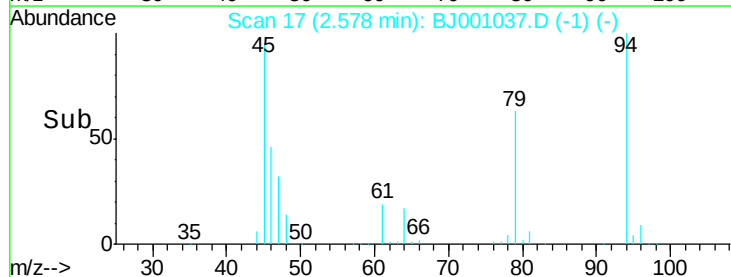
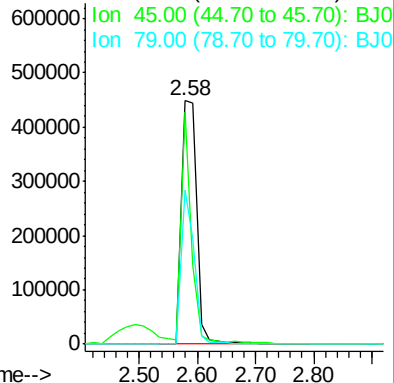
#2

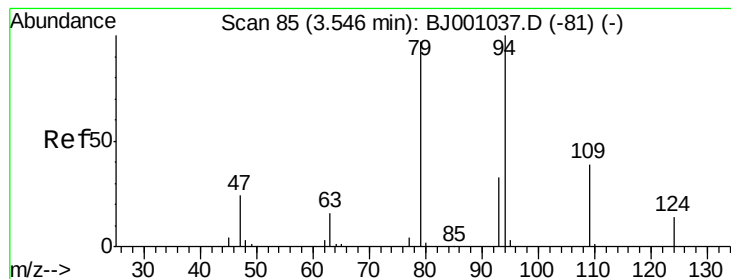
Dimethyl Disulfide
 Concen: 7.38 ug/mL
 RT: 2.58 min Scan# 17
 Delta R.T. 0.00 min
 Lab File: BJ001037.D
 Acq: 20 Jul 2012 12:24

Tgt Ion	Ratio	Lower	Upper
94	100		
45	95.2	75.2	115.2
79	63.1	43.1	83.1



Abundance Ion 94.00 (93.70 to 94.70): BJ0





#3

DMMP

Concen: 3.29 ug/mL m

RT: 3.55 min Scan# 85

Delta R.T. 0.00 min

Lab File: BJ001037.D

Acq: 20 Jul 2012 12:24

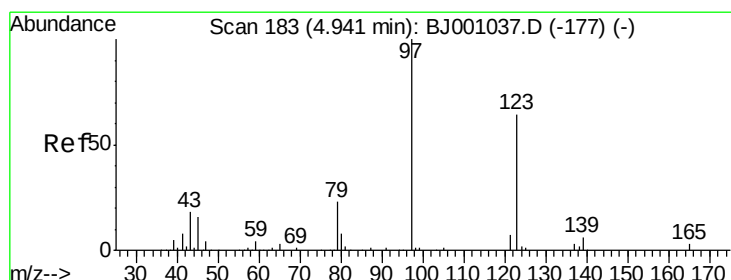
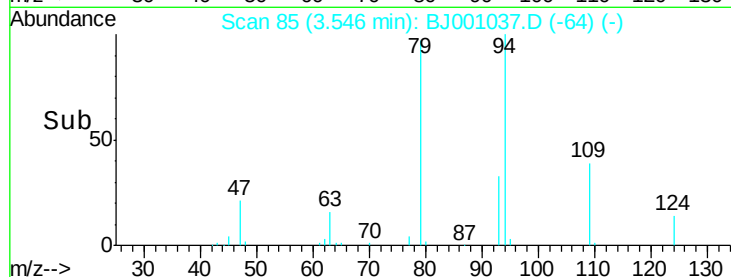
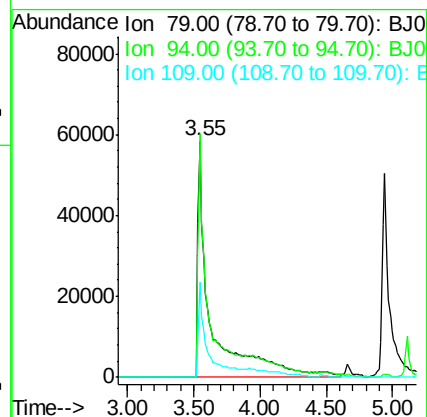
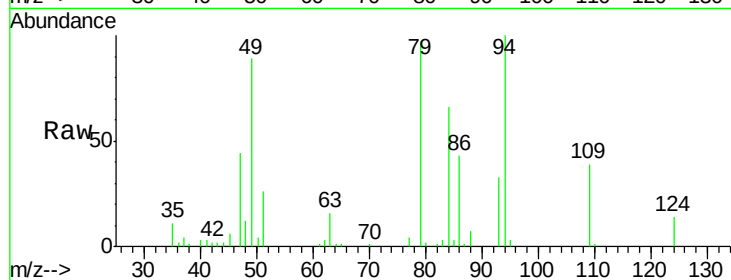
Tgt Ion: 79 Resp: 404452

Ion Ratio Lower Upper

79 100

94 103.0 83.0 123.0

109 40.0 20.0 60.0



#4

DIMP

Concen: 2.83 ug/mL m

RT: 4.94 min Scan# 183

Delta R.T. 0.00 min

Lab File: BJ001037.D

Acq: 20 Jul 2012 12:24

Tgt Ion: 97 Resp: 791538

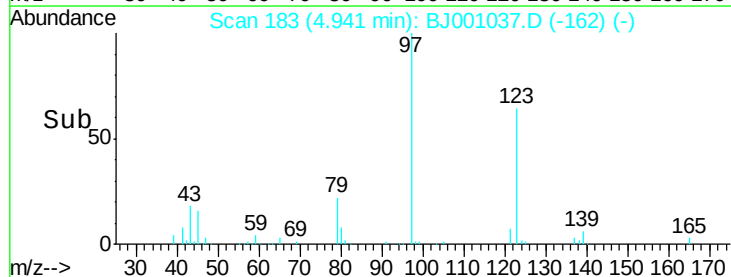
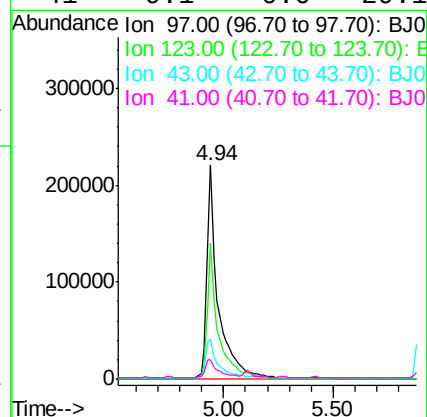
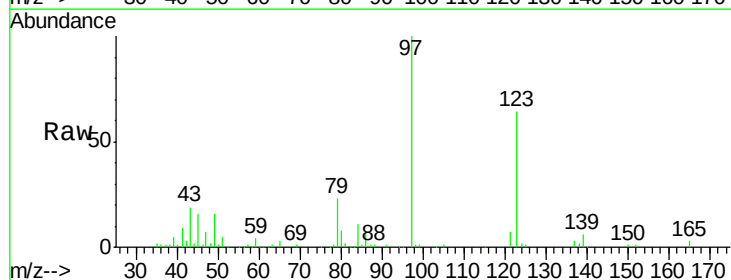
Ion Ratio Lower Upper

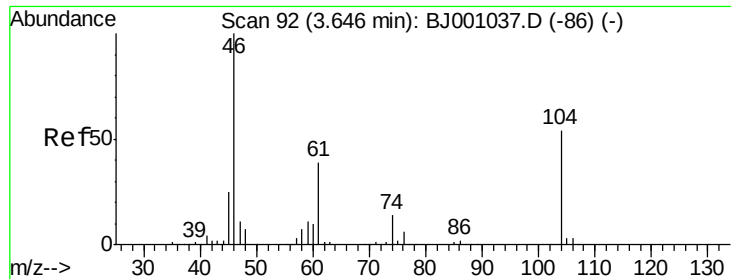
97 100

123 63.8 43.8 83.8

43 18.6 0.0 38.6

41 9.1 0.0 29.1





#5

1,4-Oxathiane

Concen: 9.00 ug/mL

RT: 3.65 min Scan# 92

Delta R.T. 0.00 min

Lab File: BJ001037.D

Acq: 20 Jul 2012 12:24

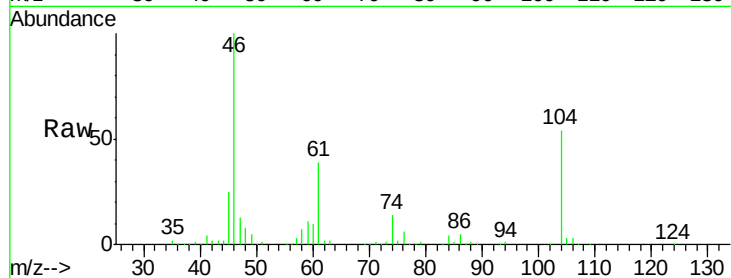
Tgt Ion: 46 Resp: 985275

Ion Ratio Lower Upper

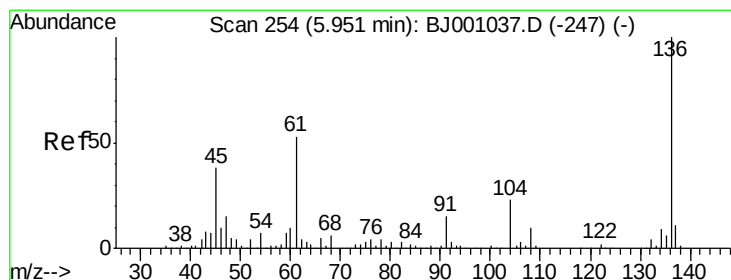
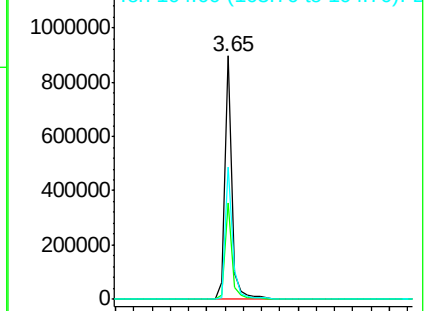
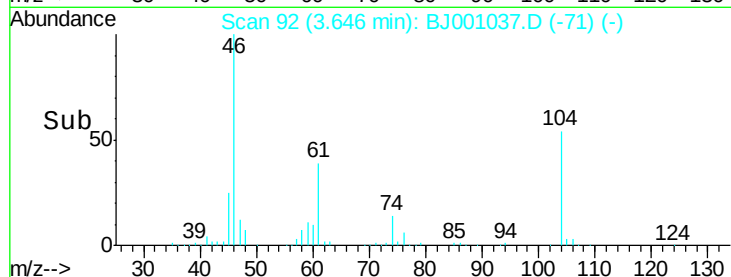
46 100

61 39.4 19.4 59.4

104 54.1 34.1 74.1



Abundance Ion 46.00 (45.70 to 46.70): BJ0
Ion 61.00 (60.70 to 61.70): BJ0
Ion 104.00 (103.70 to 104.70): BJ0



#6

Naphthalene-d8

Concen: 2.00 ug/mL

RT: 5.95 min Scan# 254

Delta R.T. 0.00 min

Lab File: BJ001037.D

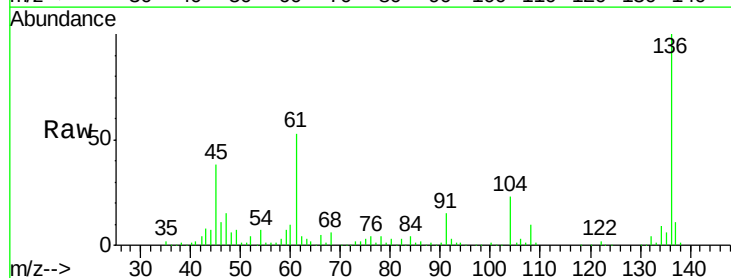
Acq: 20 Jul 2012 12:24

Tgt Ion: 136 Resp: 1339325

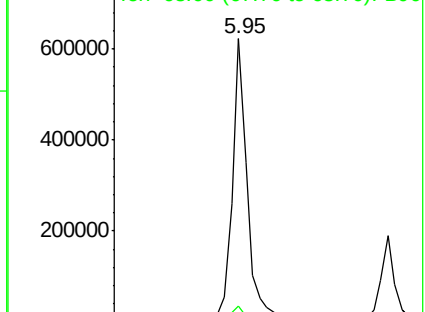
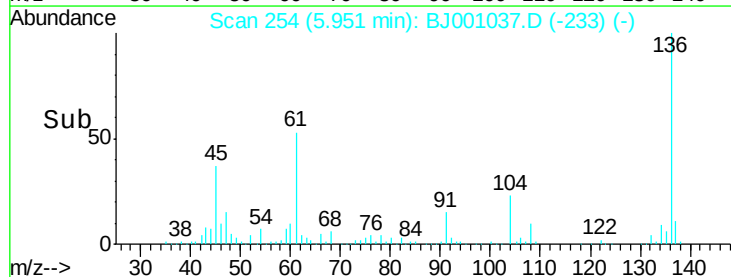
Ion Ratio Lower Upper

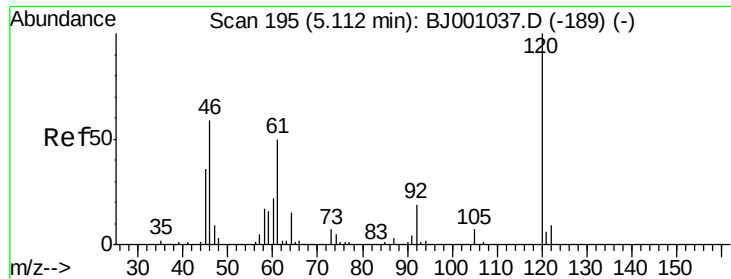
136 100

68 5.5 0.0 25.5



Abundance Ion 136.00 (135.70 to 136.70): BJ0
Ion 68.00 (67.70 to 68.70): BJ0





#7

1,4-Dithiane

Concen: 7.85 ug/mL

RT: 5.11 min Scan# 195

Delta R.T. 0.00 min

Lab File: BJ001037.D

Acq: 20 Jul 2012 12:24

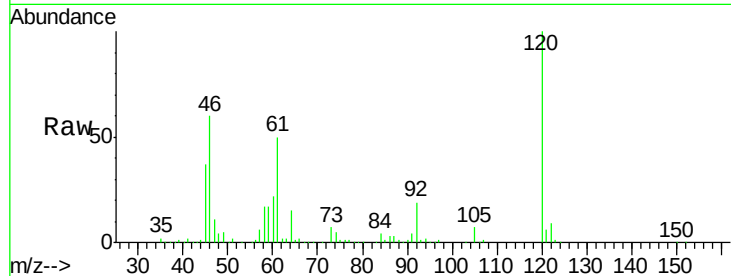
Tgt Ion: 46 Resp: 748625

Ion Ratio Lower Upper

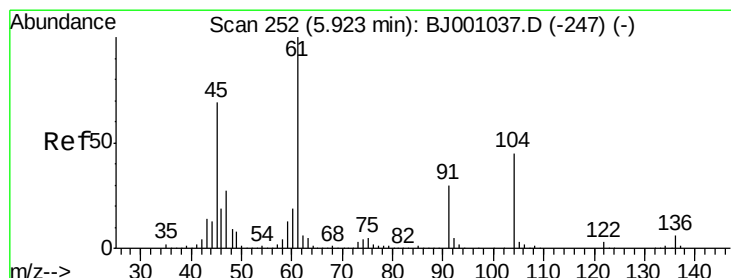
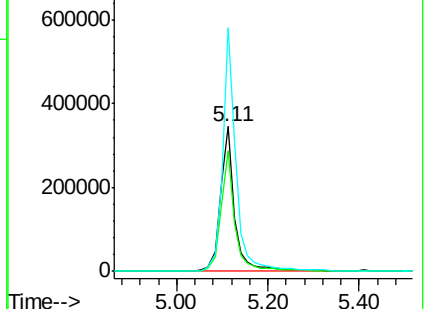
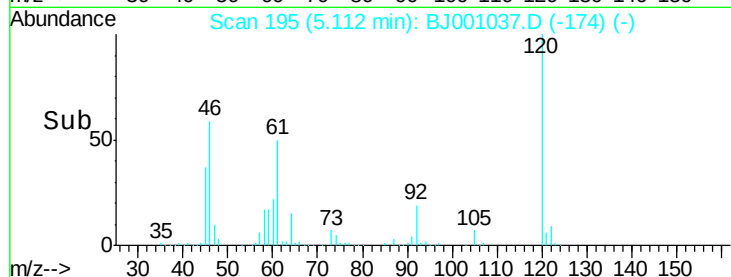
46 100

61 83.7 63.7 103.7

120 168.0 148.0 188.0



Abundance Ion 46.00 (45.70 to 46.70): BJ0
Ion 61.00 (60.70 to 61.70): BJ0
Ion 120.00 (119.70 to 120.70): BJ0



#8

Thiodiglycol

Concen: 61.29 ug/mL m

RT: 5.92 min Scan# 252

Delta R.T. 0.00 min

Lab File: BJ001037.D

Acq: 20 Jul 2012 12:24

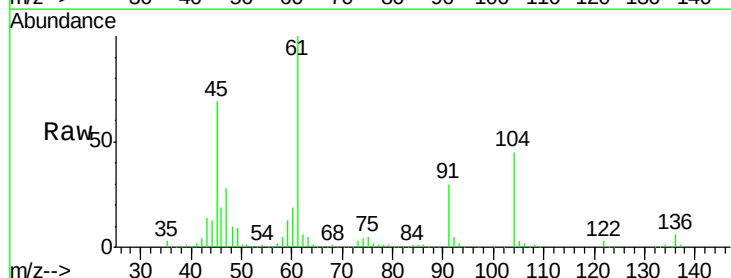
Tgt Ion: 61 Resp: 5267904

Ion Ratio Lower Upper

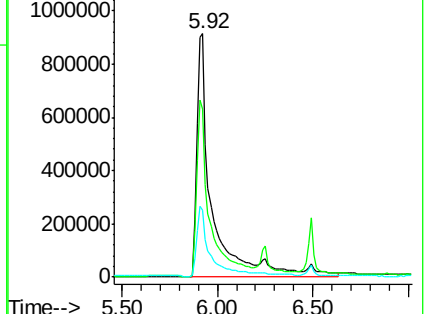
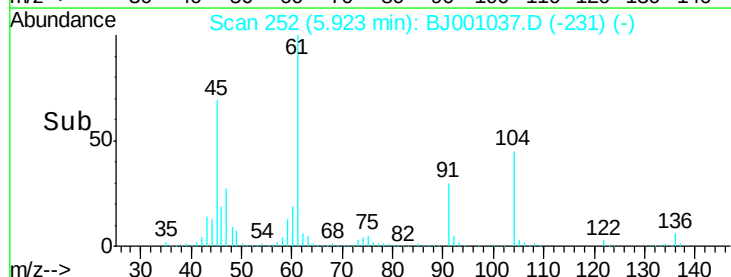
61 100

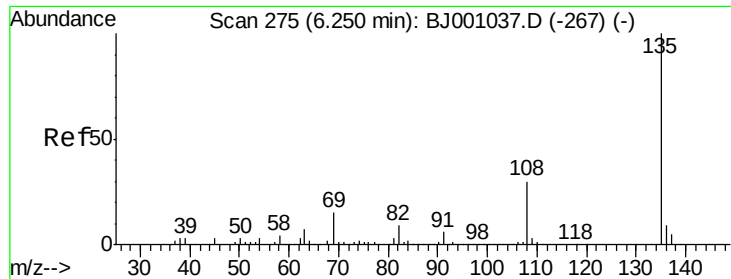
45 69.0 49.0 89.0

47 27.6 7.6 47.6



Abundance Ion 61.00 (60.70 to 61.70): BJ0
Ion 45.00 (44.70 to 45.70): BJ0
Ion 47.00 (46.70 to 47.70): BJ0

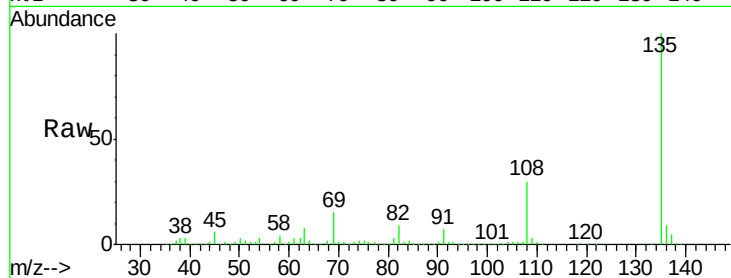




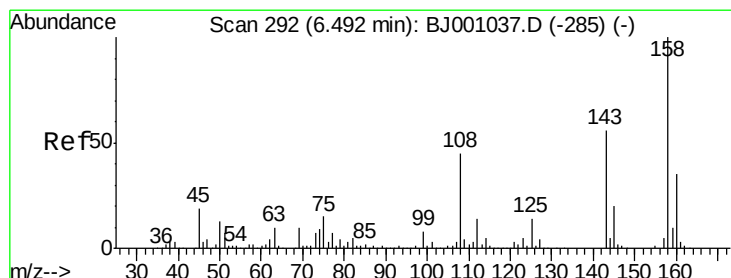
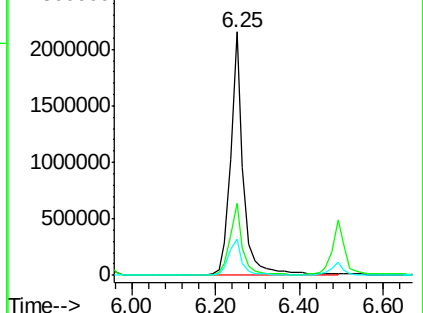
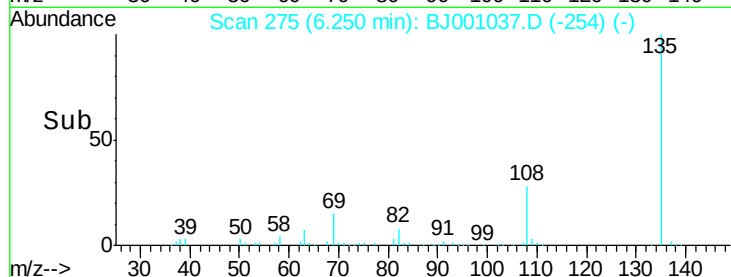
#9
Benzothiazole
Concen: 12.39 ug/mL
RT: 6.25 min Scan# 275
Delta R.T. 0.00 min
Lab File: BJ001037.D
Acq: 20 Jul 2012 12:24

Tgt Ion:135 Resp: 4557408

Ion	Ratio	Lower	Upper
135	100		
108	29.9	9.9	49.9
69	15.1	0.0	35.1



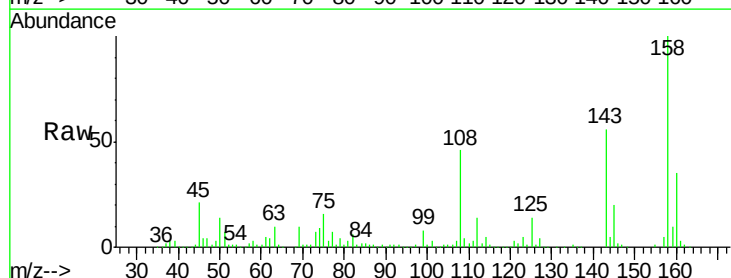
Abundance Ion 135.00 (134.70 to 135.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 69.00 (68.70 to 69.70): BJO



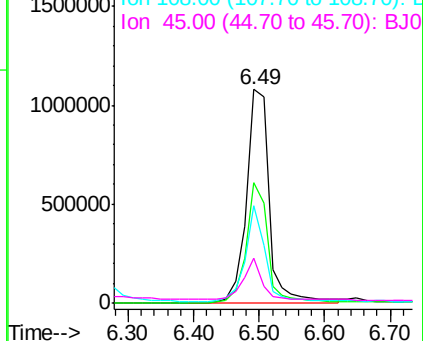
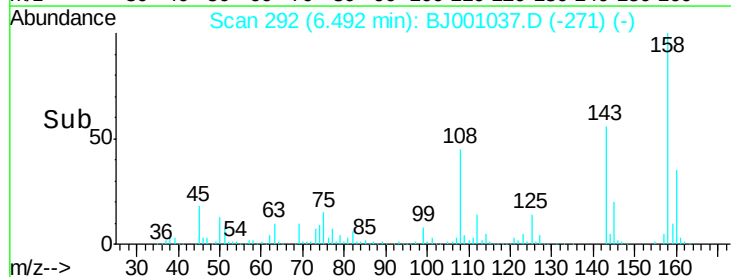
#11
p-Chlorophenylmethylsulfide
Concen: 11.30 ug/mL
RT: 6.49 min Scan# 292
Delta R.T. 0.00 min
Lab File: BJ001037.D
Acq: 20 Jul 2012 12:24

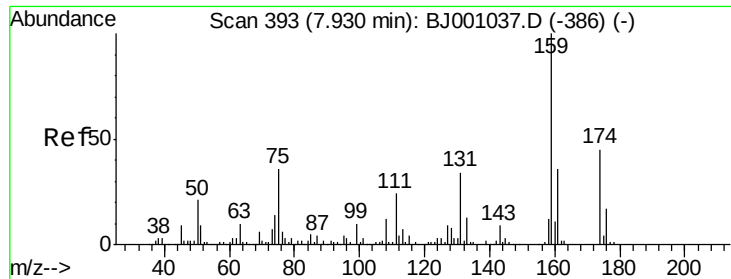
Tgt Ion:158 Resp: 2611336

Ion	Ratio	Lower	Upper
158	100		
143	56.2	36.2	76.2
108	45.5	25.5	65.5
45	20.7	0.7	40.7



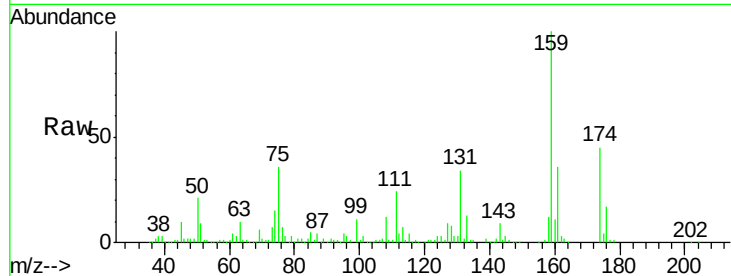
Abundance Ion 158.00 (157.70 to 158.70): E
Ion 143.00 (142.70 to 143.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 45.00 (44.70 to 45.70): BJO



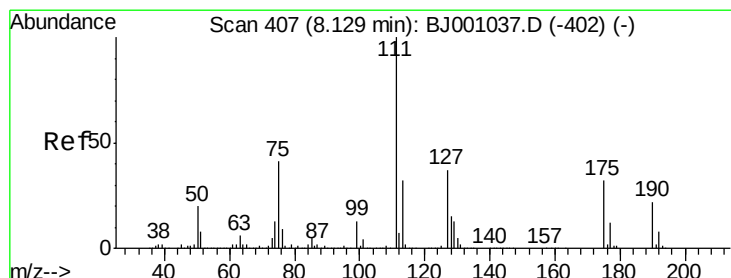
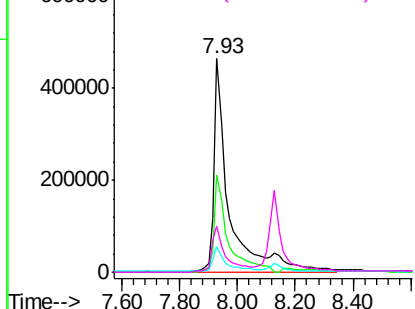
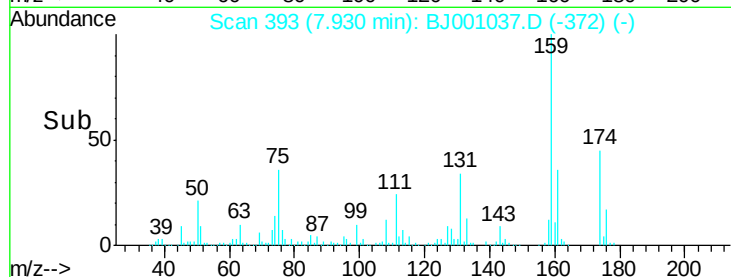


#13
p-Chlorophenylmethylsulfoxide
Concen: 11.96 ug/mL m
RT: 7.93 min Scan# 393
Delta R.T. 0.00 min
Lab File: BJ001037.D
Acq: 20 Jul 2012 12:24

Tgt Ion:159 Resp: 1683589
Ion Ratio Lower Upper
159 100
174 40.8 27.6 67.6
108 10.1 0.0 31.8
50 19.4 2.7 42.7

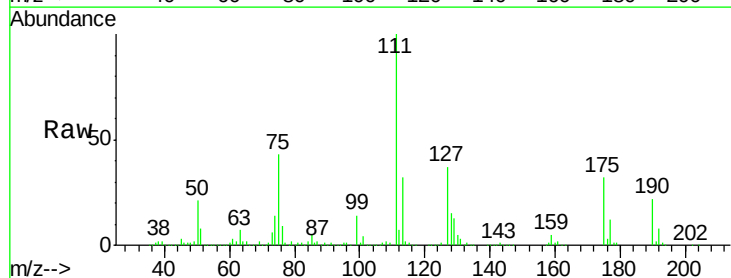


Abundance Ion 159.00 (158.70 to 159.70): E
Ion 174.00 (173.70 to 174.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 50.00 (49.70 to 50.70): BJ0

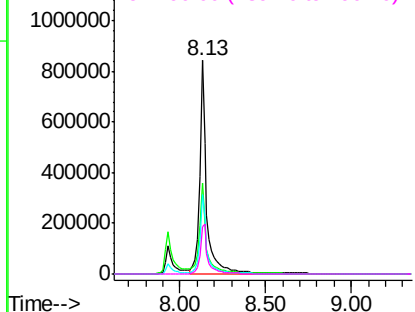
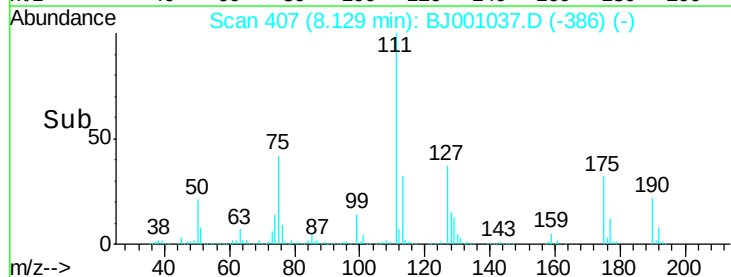


#14
p-Chlorophenylmethylsulfone
Concen: 12.83 ug/mL m
RT: 8.13 min Scan# 407
Delta R.T. 0.00 min
Lab File: BJ001037.D
Acq: 20 Jul 2012 12:24

Tgt Ion:111 Resp: 2501228
Ion Ratio Lower Upper
111 100
75 42.6 22.6 62.6
127 37.2 17.2 57.2
190 22.0 2.0 42.0



Abundance Ion 111.00 (110.70 to 111.70): E
Ion 75.00 (74.70 to 75.70): BJ0
Ion 127.00 (126.70 to 127.70): E
Ion 190.00 (189.70 to 190.70): E



Data Path : Z:\HPCHEM1\BNA_J\DATA\BJ072012\
 Data File : BJ001037.D
 Acq On : 20 Jul 2012 12:24
 Operator : HLM
 Sample : CWA-4
 Misc : BNA_J HLM
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 02:52:53 2012
 Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ072012.M
 Quant Title : CWA degradation products by GCMS
 QLast Update : Fri Jul 20 13:59:18 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.67	152	327655	2.00	ug/mL	0.00
6) Naphthalene-d8	5.95	136	1339325	2.00	ug/mL	0.00

System Monitoring Compounds						
10) Tripropylphosphate	7.00	99	1249724	2.39	ug/mL	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	478.00%#
12) 2-Bromothioanisole	7.25	204	1284855	14.05	ug/mL	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	281.00%#

Target Compounds						Qvalue
2) Dimethyl Disulfide	2.58	94	820507	7.38	ug/mL	100
3) DMMP	3.55	79	404452m	3.29	ug/mL	
4) DIMP	4.94	97	791538m	2.83	ug/mL	
5) 1,4-Oxathiane	3.65	46	985275	9.00	ug/mL	100
7) 1,4-Dithiane	5.11	46	748625	7.85	ug/mL	100
8) Thiodiglycol	5.92	61	5267904m	61.29	ug/mL	
9) Benzothiazole	6.25	135	4557408	12.39	ug/mL	100
11) p-Chlorophenylmethyldisulfid	6.49	158	2611336	11.30	ug/mL	100
13) p-Chlorophenylmethyldisulfox	7.93	159	1683589m	11.96	ug/mL	
14) p-Chlorophenylmethyldisulfon	8.13	111	2501228m	12.83	ug/mL	

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