

Data File : H:\VOL1\GCMSDATA\J\120426\BJ000782.D  
 Acq On : 26 Apr 2012 14:28  
 Sample : CWA-5  
 Misc : STD BNA J HLM  
 MS Integration Params: rteint.p  
 Quant Time: Apr 26 16:07 2012

Vial: 6  
 Operator: HLM  
 Inst : BNA J  
 Multiplr: 1.00

Quant Results File: BJ042612.RES

Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ042612.M (RTE Integrator)  
 Title : CWA degradation products by GCMS  
 Last Update : Thu Apr 26 16:03:58 2012  
 Response via : Initial Calibration  
 DataAcq Meth : CWAJ

| Internal Standards        | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 4.71 | 152  | 290241   | 2.00 | ug/mL | -0.04    |
| 6) Naphthalene-d8         | 5.98 | 136  | 481658   | 2.00 | ug/mL | -0.08    |

#### System Monitoring Compounds

|                        |       |       |          |          |       |           |
|------------------------|-------|-------|----------|----------|-------|-----------|
| 10) Tripropylphosphate | 7.02  | 99    | 881529   | 5.16     | ug/mL | -0.08     |
| Spiked Amount          | 0.500 | Range | 70 - 130 | Recovery | =     | 1032.00%# |
| 12) 2-Bromothioanisole | 7.26  | 204   | 751923   | 22.49    | ug/mL | -0.10     |
| Spiked Amount          | 5.000 | Range | 70 - 130 | Recovery | =     | 449.80%#  |

#### Target Compounds

|                                   | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------------|------|------|----------|--------|--------|--------|
| 2) Dimethyl Disulfide             | 2.66 | 94   | 1547172  | 14.01  | ug/mL# | 67     |
| 3) DMMP                           | 3.59 | 79   | 477203   | 6.61   | ug/mL  | 95     |
| 4) DIMP                           | 4.95 | 97   | 642599   | 2.97   | ug/mL  | 98     |
| 5) 1,4-Oxathiane                  | 3.73 | 46   | 1143032  | 11.30  | ug/mL  | 93     |
| 7) 1,4-Dithiane                   | 5.15 | 46   | 621751   | 18.92  | ug/mL# | 70     |
| 8) Thiodiglycol                   | 5.99 | 61   | 6768664  | 254.74 | ug/mL  | 95     |
| 9) Benzothiazole                  | 6.26 | 135  | 3653288  | 27.70  | ug/mL  | 92     |
| 11) p-Chlorophenylmethyldisulfide | 6.52 | 158  | 2006134  | 22.40  | ug/mL  | 99     |
| 13) p-Chlorophenylmethyldisulfox  | 7.91 | 159  | 1132615  | 24.27  | ug/mL  | 94     |
| 14) p-Chlorophenylmethyldisulfon  | 8.13 | 111  | 1094733  | 15.69  | ug/mL  | 90     |

## Quantitation Report

Data File : H:\VOL1\GCMSDATA\J\120426\BJ000782.D

Vial: 6

Acq On : 26 Apr 2012 14:28

Operator: HLM

Sample : CWA-5

Inst : BNA J

Misc : STD BNA J HLM

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 26 16:07 2012

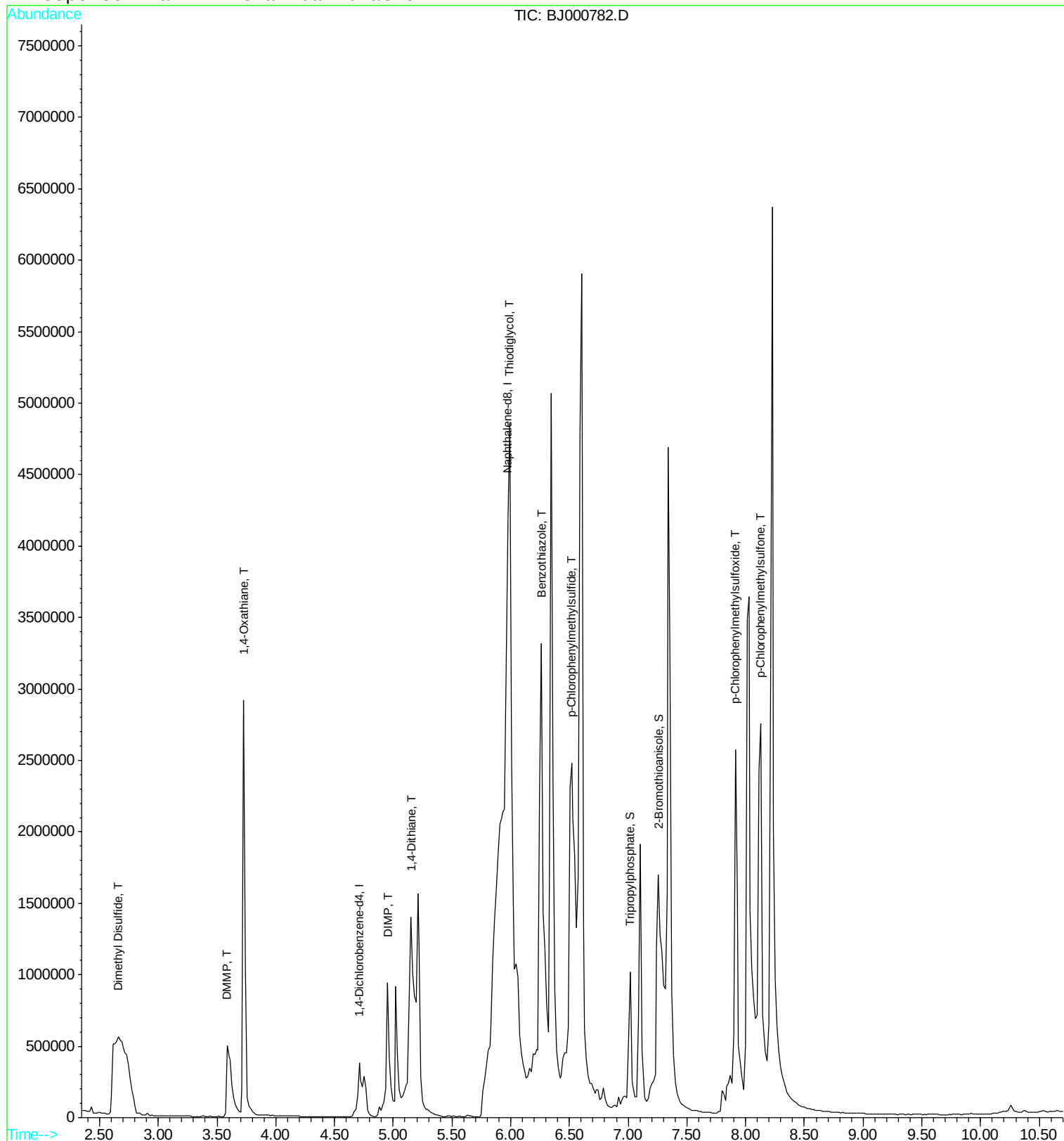
Quant Results File: BJ042612.RES

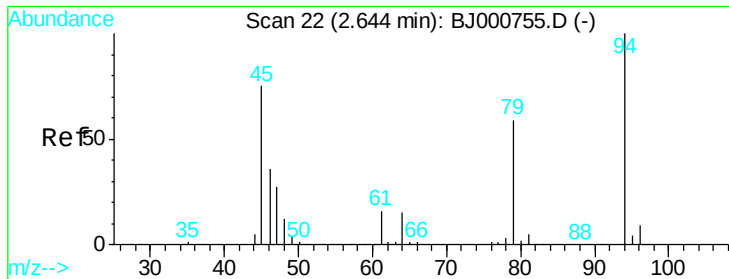
Method : H:\VOL1\GCMSDATA\J\METHODS\BJ042612.M (RTE Integrator)

Title : CWA degradation products by GCMS

Last Update : Thu Apr 26 16:03:58 2012

Response via : Initial Calibration





#2

Dimethyl Disulfide

Concen: 14.01 ug/mL

RT: 2.66 min Scan# 23

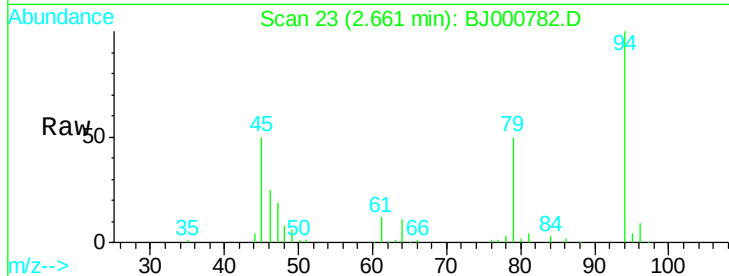
Delta R.T. -0.01 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion: 94 Resp: 1547172

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 94  | 100   |       |        |
| 45  | 50.3  | 72.8  | 112.8# |
| 79  | 50.3  | 43.9  | 83.9   |

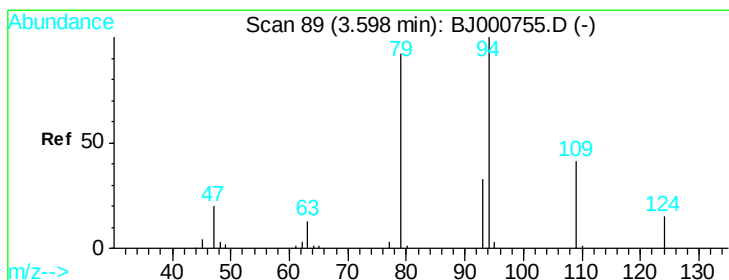
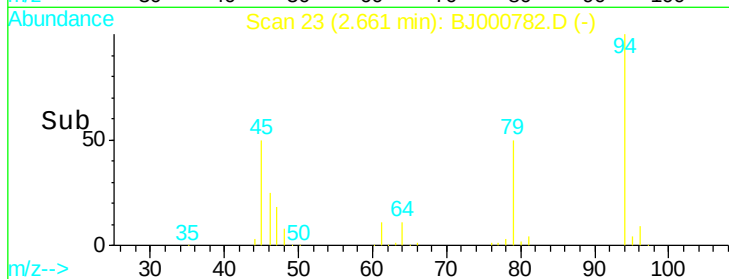
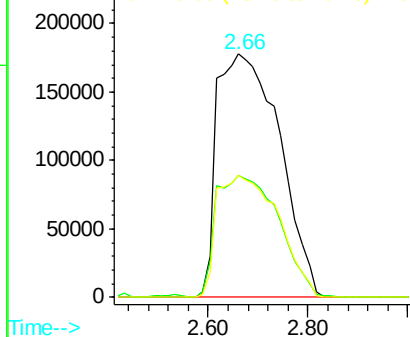


Abundance

Ion 94.00 (93.70 to 94.70): BJ0

Ion 45.00 (44.70 to 45.70): BJ0

Ion 79.00 (78.70 to 79.70): BJ0



#3

DMMP

Concen: 6.61 ug/mL

RT: 3.59 min Scan# 88

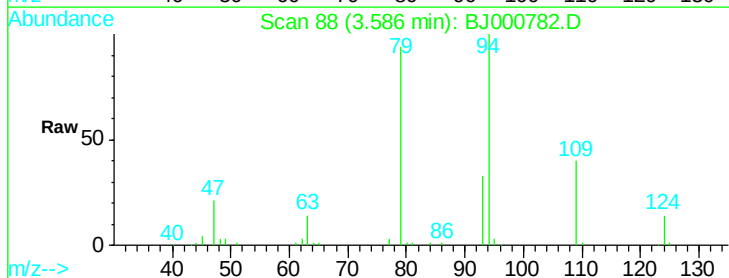
Delta R.T. -0.03 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion: 79 Resp: 477203

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 94  | 106.4 | 81.5  | 121.5 |
| 109 | 42.2  | 18.2  | 58.2  |

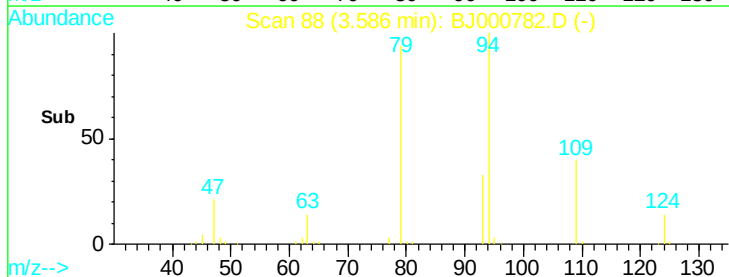
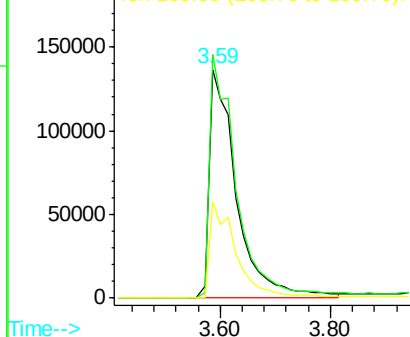


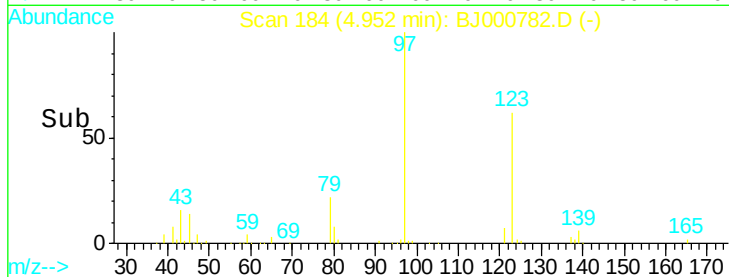
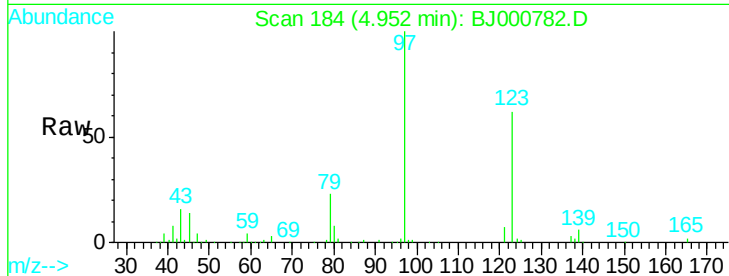
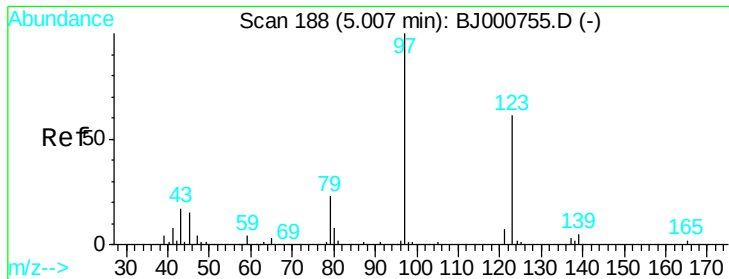
Abundance

Ion 79.00 (78.70 to 79.70): BJ0

Ion 94.00 (93.70 to 94.70): BJ0

Ion 109.00 (108.70 to 109.70): BJ0





#4

DIMP

Concen: 2.97 ug/mL

RT: 4.95 min Scan# 184

Delta R.T. -0.07 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion: 97 Resp: 642599

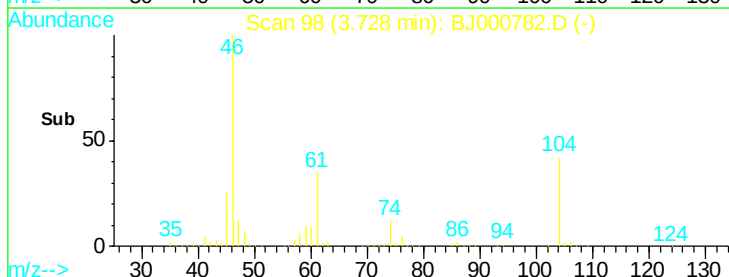
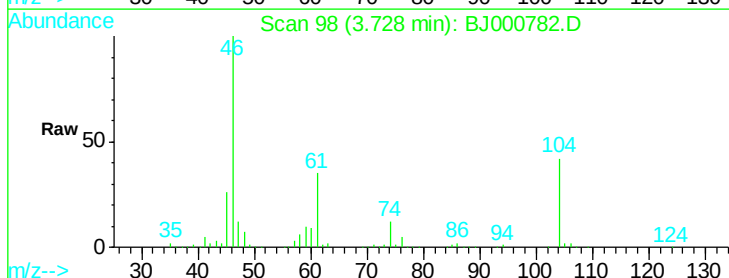
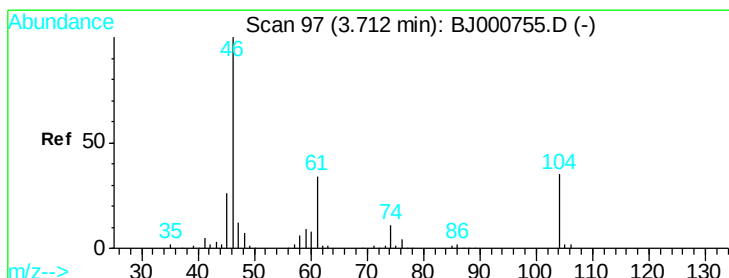
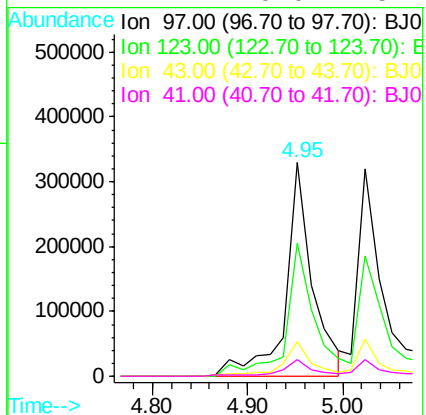
Ion Ratio Lower Upper

97 100

123 62.2 40.6 80.6

43 16.2 0.0 37.6

41 7.7 0.0 28.4



#5

1,4-Oxathiane

Concen: 11.30 ug/mL

RT: 3.73 min Scan# 98

Delta R.T. 0.00 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

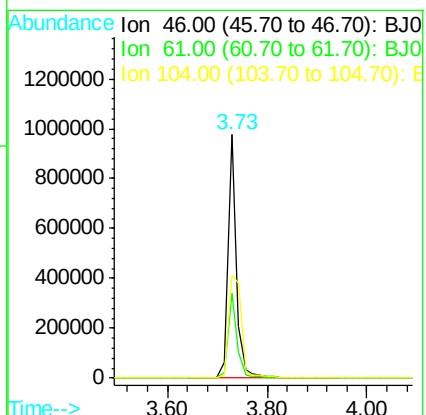
Tgt Ion: 46 Resp: 1143032

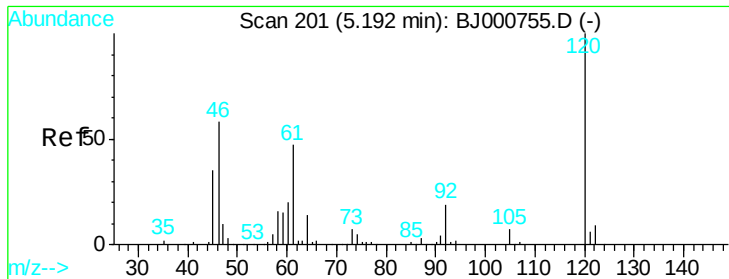
Ion Ratio Lower Upper

46 100

61 34.7 14.6 54.6

104 42.2 13.7 53.7





#7

1,4-Dithiane

Concen: 18.92 ug/mL

RT: 5.15 min Scan# 198

Delta R.T. -0.05 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

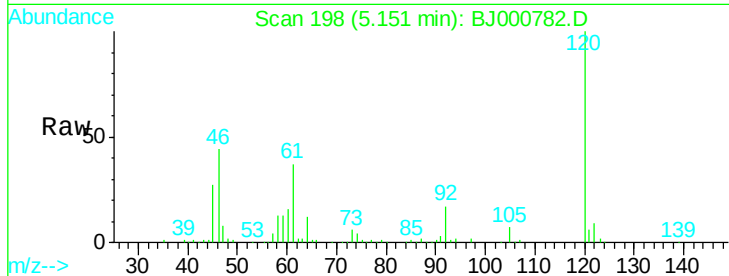
Tgt Ion: 46 Resp: 621751

Ion Ratio Lower Upper

46 100

61 85.3 62.3 102.3

120 228.1 149.0 189.0#

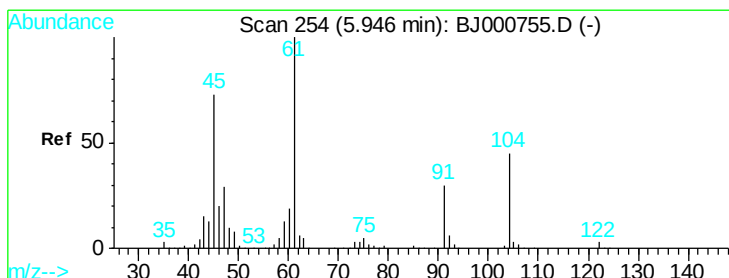
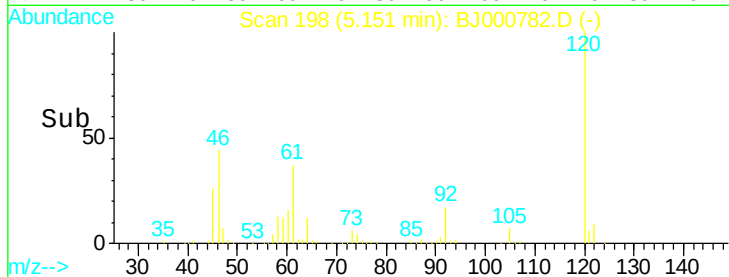
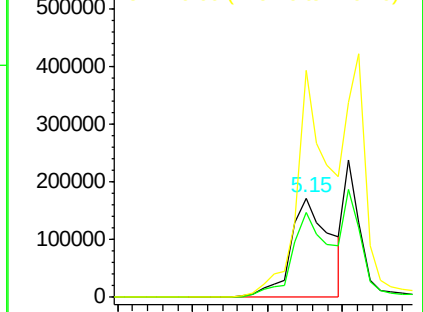


Abundance

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: 254.74 ug/mL

RT: 5.99 min Scan# 257

Delta R.T. 0.04 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

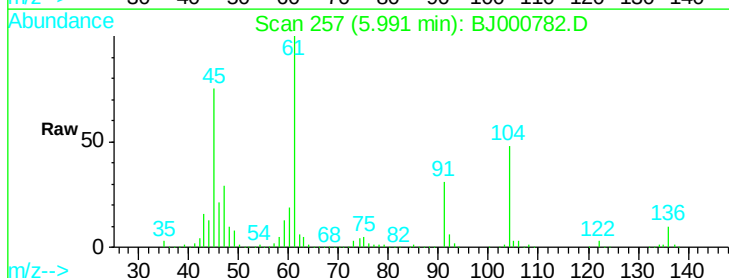
Tgt Ion: 61 Resp: 6768664

Ion Ratio Lower Upper

61 100

45 74.6 49.4 89.4

47 29.4 7.9 47.9

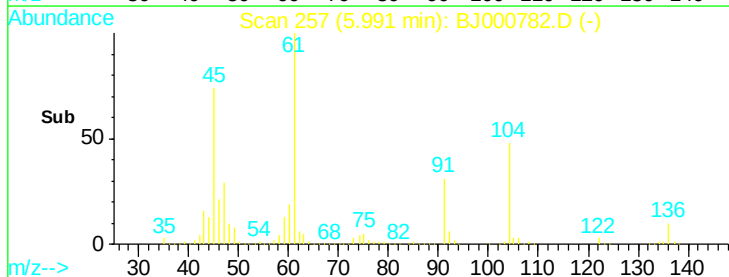
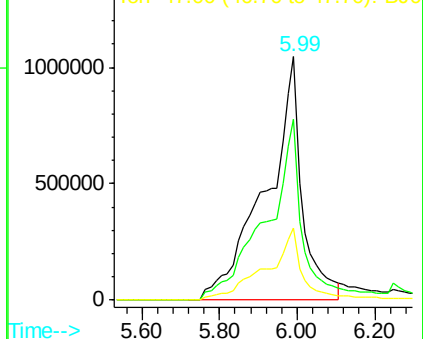


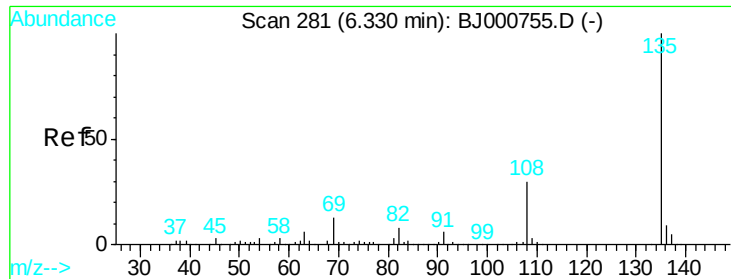
Abundance

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: 27.70 ug/mL

RT: 6.26 min Scan# 276

Delta R.T. -0.08 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

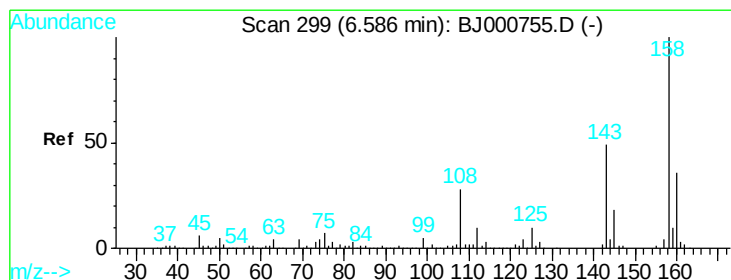
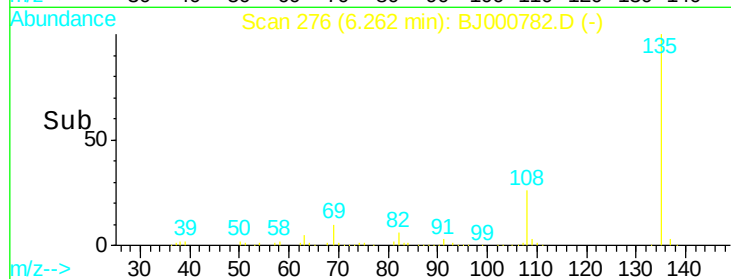
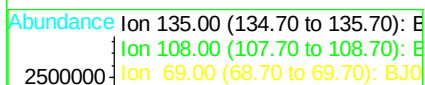
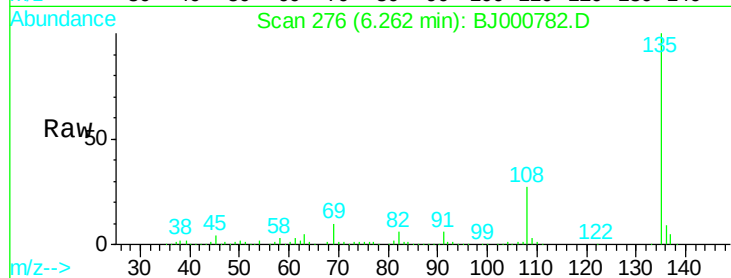
Tgt Ion:135 Resp: 3653288

Ion Ratio Lower Upper

135 100

108 26.8 11.0 51.0

69 10.0 0.0 34.2



#11

p-Chlorophenylmethylsulfide

Concen: 22.40 ug/mL

RT: 6.52 min Scan# 294

Delta R.T. -0.08 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion:158 Resp: 2006134

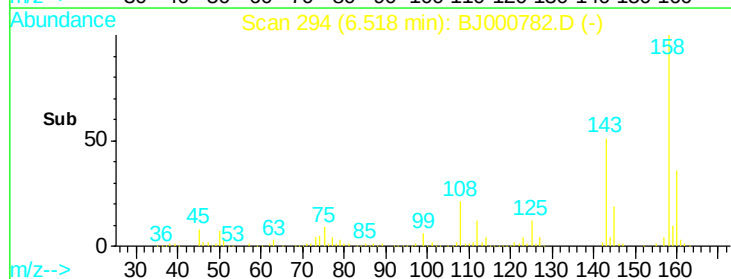
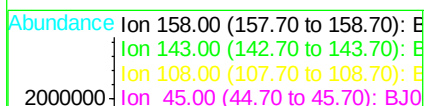
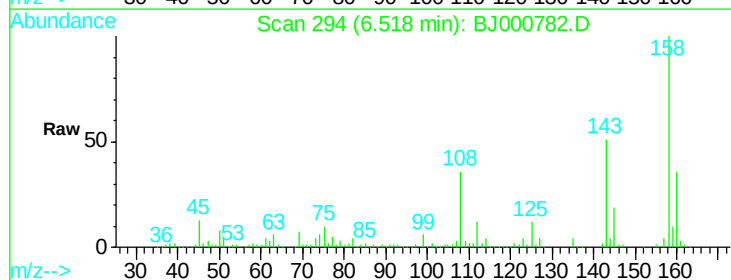
Ion Ratio Lower Upper

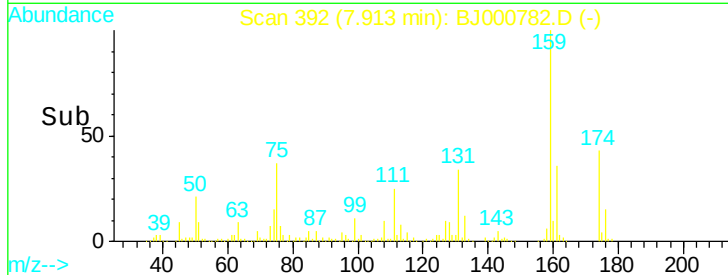
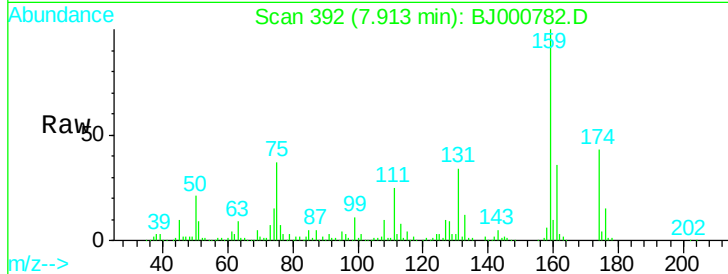
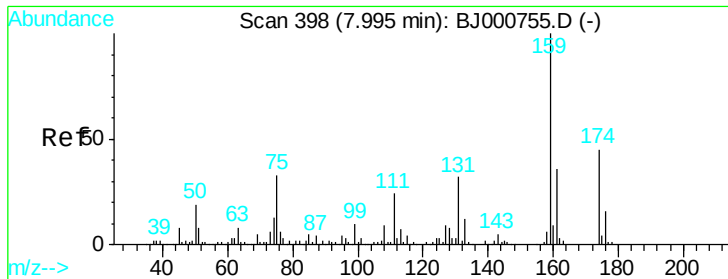
158 100

143 51.0 31.4 71.4

108 36.4 15.5 55.5

45 13.1 0.0 32.2





#13

p-Chlorophenylmethylsulfoxide

Concen: 24.27 ug/mL

RT: 7.91 min Scan# 392

Delta R.T. -0.11 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion:159 Resp: 1132615

Ion Ratio Lower Upper

159 100

174 47.8 31.3 71.3

108 6.8 0.0 31.3

50 13.4 0.0 35.6

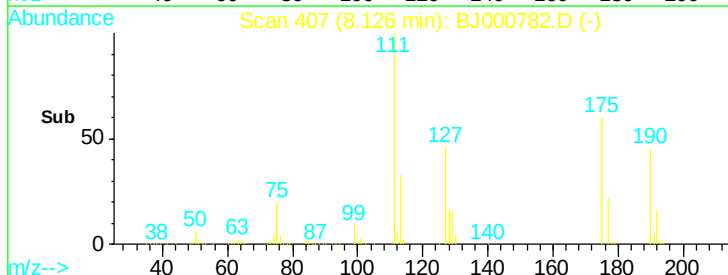
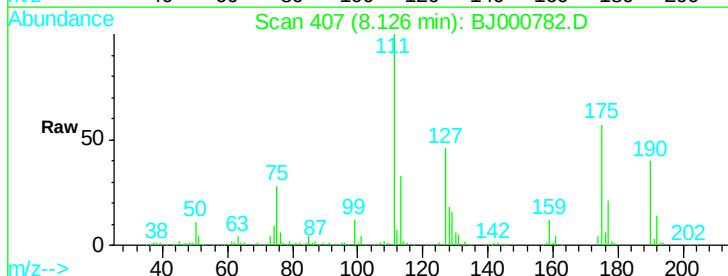
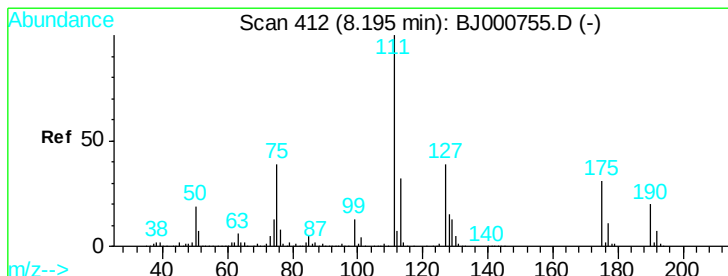
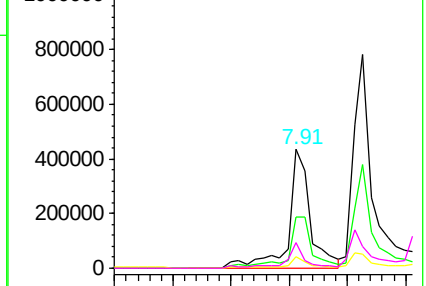
Abundance

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: 15.69 ug/mL

RT: 8.13 min Scan# 407

Delta R.T. -0.10 min

Lab File: BJ000782.D

Acq: 26 Apr 2012 14:28

Tgt Ion:111 Resp: 1094733

Ion Ratio Lower Upper

111 100

75 28.1 14.1 54.1

127 45.7 21.7 61.7

190 40.4 11.8 51.8

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

