

Data File : H:\VOL1\GCMSDATA\J\121210\BJ001327.D  
 Acq On : 10 Dec 2012 18:28  
 Sample : CWA-ICV  
 Misc : BNA\_J HLM  
 MS Integration Params: rteint.p  
 Quant Time: Dec 12 13:00 2012

Vial: 8  
 Operator: HLM  
 Inst : BNA\_J  
 Multiplr: 1.00

Instrument :  
 BNA\_J  
 ClientSampleId :  
 ICVB.J121012

Quant Results File: BJ121012.RES

Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ121012.M (RTE Integrator)  
 Title : CWA degradation products by GCMS  
 Last Update : Mon Dec 10 18:28:25 2012  
 Response via : Initial Calibration  
 DataAcq Meth : CWAJ

| Internal Standards        | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 4.37 | 152  | 159881   | 2.00 | ug/mL | 0.00     |
| 6) Naphthalene-d8         | 5.63 | 136  | 736659   | 2.00 | ug/mL | 0.00     |

#### System Monitoring Compounds

|                        |       |       |          |          |       |        |
|------------------------|-------|-------|----------|----------|-------|--------|
| 10) Tripropylphosphate | 0.00  | 99    | 0        | 0.00     | ug/mL |        |
| Spiked Amount          | 0.500 | Range | 70 - 130 | Recovery | =     | 0.00%# |
| 12) 2-Bromothioanisole | 0.00  | 204   | 0        | 0.00     | ug/mL |        |
| Spiked Amount          | 5.000 | Range | 70 - 130 | Recovery | =     | 0.00%# |

#### Target Compounds

|                                   | R.T. | QIon | Response | Conc | Units  | Ovalue |
|-----------------------------------|------|------|----------|------|--------|--------|
| 2) Dimethyl Disulfide             | 2.45 | 94   | 68733    | 1.08 | ug/mL# | 22     |
| 3) DMMP                           | 3.27 | 79   | 38994    | 0.69 | ug/mL  | 99     |
| 4) DIMP                           | 4.65 | 97   | 58507    | 0.43 | ug/mL# | 79     |
| 5) 1,4-Oxathiane                  | 3.39 | 46   | 86093    | 1.00 | ug/mL# | 73     |
| 7) 1,4-Dithiane                   | 4.79 | 46   | 86077    | 1.16 | ug/mL  | 90     |
| 8) Thiodiglycol                   | 5.58 | 61   | 394127   | 6.19 | ug/mL  | 92     |
| 9) Benzothiazole                  | 5.93 | 135  | 502810   | 2.36 | ug/mL  | 94     |
| 11) p-Chlorophenylmethyldisulfide | 6.17 | 158  | 305598   | 2.39 | ug/mL  | 94     |
| 13) p-Chlorophenylmethyldisulfox  | 7.61 | 159  | 217299   | 2.09 | ug/mL  | 98     |
| 14) p-Chlorophenylmethyldisulfon  | 7.80 | 111  | 309262   | 2.28 | ug/mL  | 95     |

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Vial: 8

Acq On : 10 Dec 2012 18:28

Operator: HLM

Sample : CWA-ICV

Inst : BNA J

Misc : BNA J HLM

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Dec 12 13:00 2012

Quant Results File: BJ121012.1.RES

Instrument :

BNA\_J

ClientSampleId :

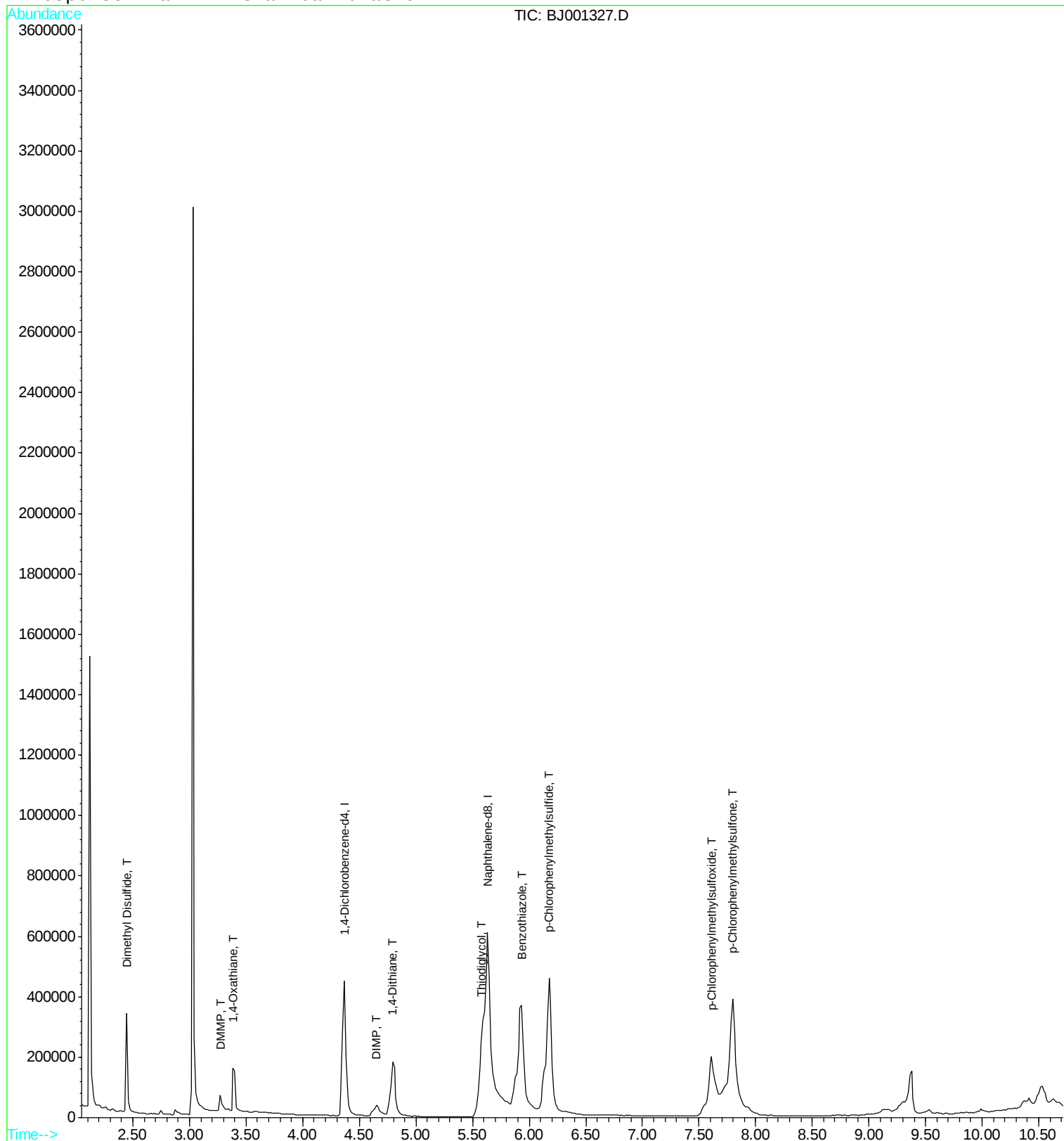
ICVB121012

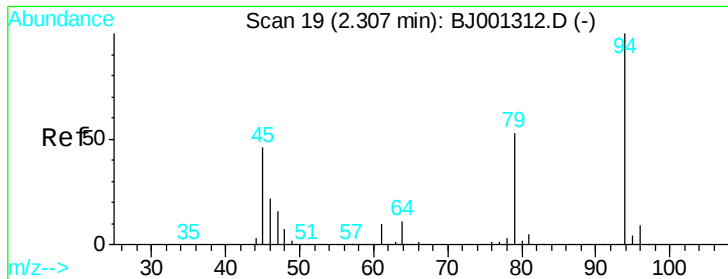
Method : H:\VOL1\GCMSDATA\J\METHODS\BJ121012.M (RTE Integrator)

Title : CWA degradation products by GCMS

Last Update : Mon Dec 10 18:28:25 2012

Response via : Initial Calibration





#2

Dimethyl Disulfide

Concen: 1.08 ug/mL

RT: 2.45 min Scan# 29

Delta R.T. 0.11 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Instrument :

BNA\_J

ClientSampleId :

ICVBJ121012

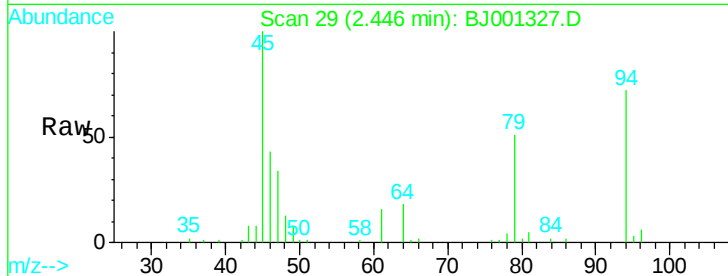
Tgt Ion: 94 Resp: 68733

Ion Ratio Lower Upper

94 100

45 139.2 26.5 66.5#

79 70.8 33.4 73.4

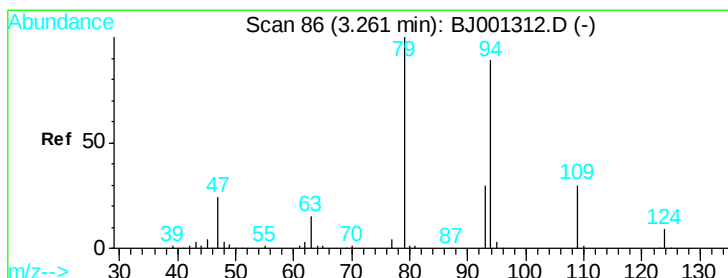
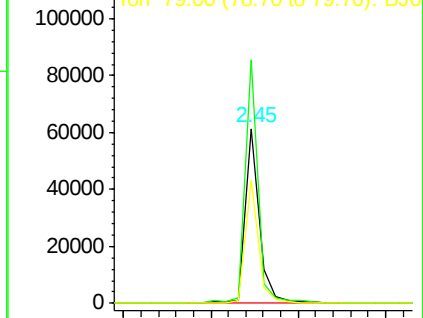
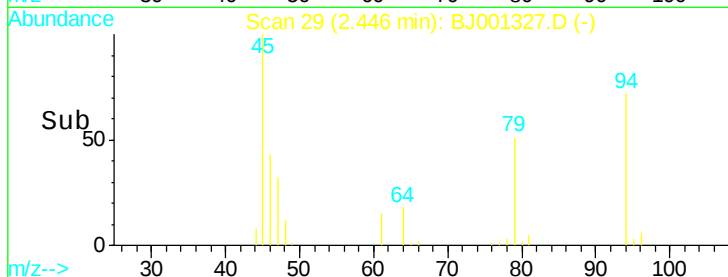


Abundance

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: 0.69 ug/mL

RT: 3.27 min Scan# 87

Delta R.T. 0.01 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

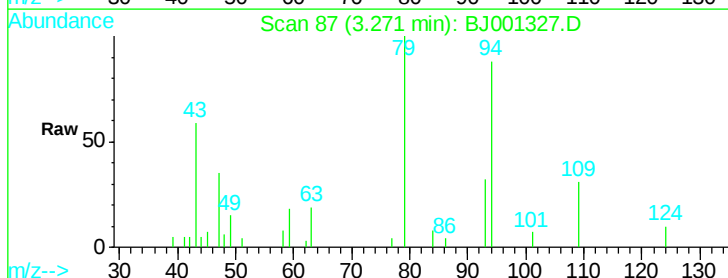
Tgt Ion: 79 Resp: 38994

Ion Ratio Lower Upper

79 100

94 87.9 69.1 109.1

109 30.6 10.5 50.5

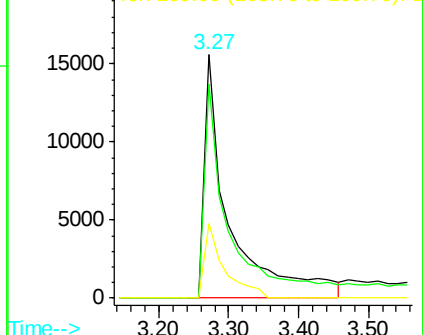
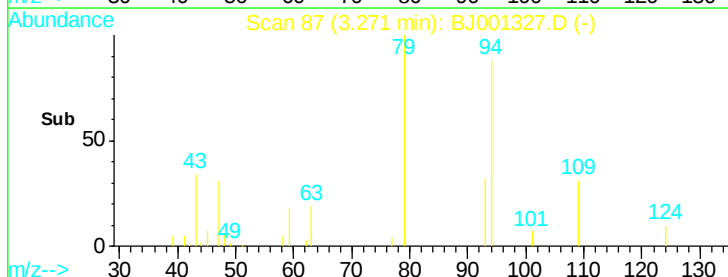


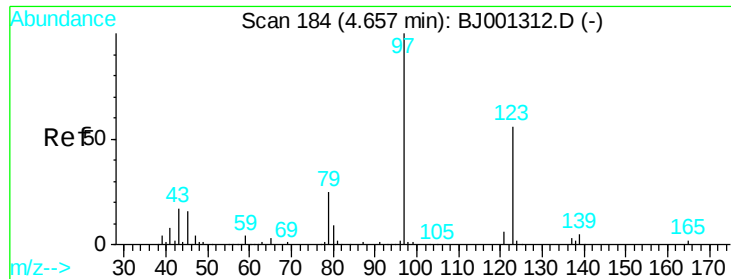
Abundance

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: 0.43 ug/mL

RT: 4.65 min Scan# 184

Delta R.T. -0.00 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Instrument :

BNA\_J

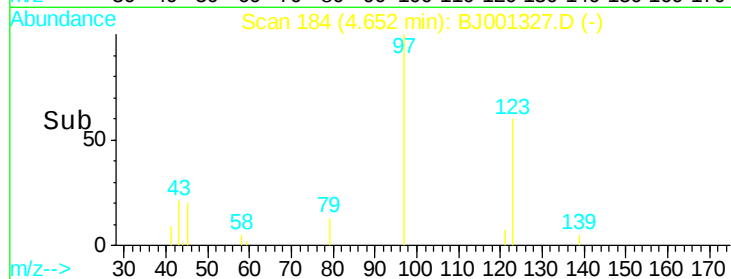
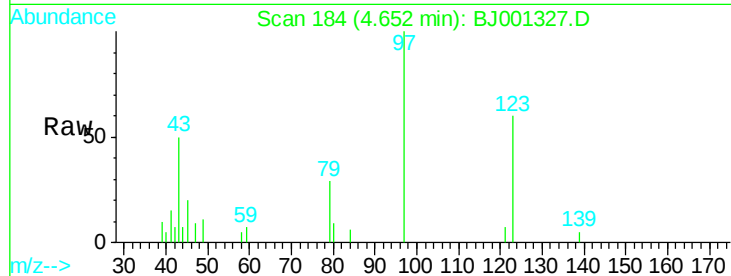
ClientSampleId :

ICVBJ121012

Tgt Ion: 97 Resp: 58507

Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 97  | 100  |      |       |
| 123 | 60.0 | 36.4 | 76.4  |
| 43  | 50.0 | 0.0  | 37.2# |
| 41  | 15.0 | 0.0  | 28.0  |



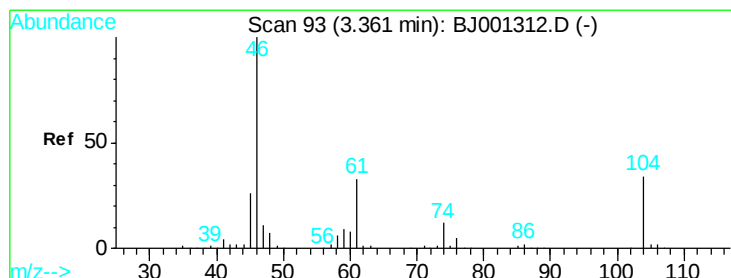
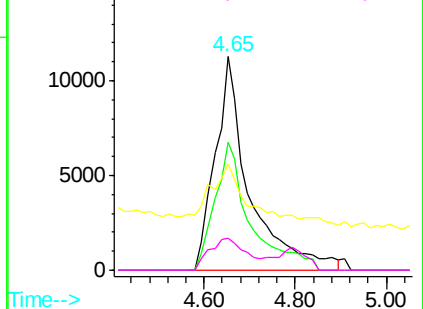
Abundance

Ion 97.00 (96.70 to 97.70): BJ0

Ion 123.00 (122.70 to 123.70): BJ0

Ion 43.00 (42.70 to 43.70): BJ0

Ion 41.00 (40.70 to 41.70): BJ0



#5

1,4-Oxathiane

Concen: 1.00 ug/mL

RT: 3.39 min Scan# 95

Delta R.T. 0.01 min

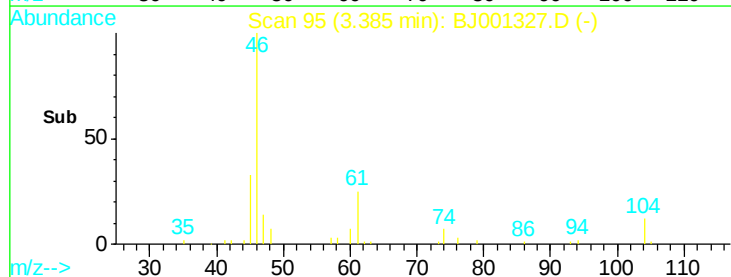
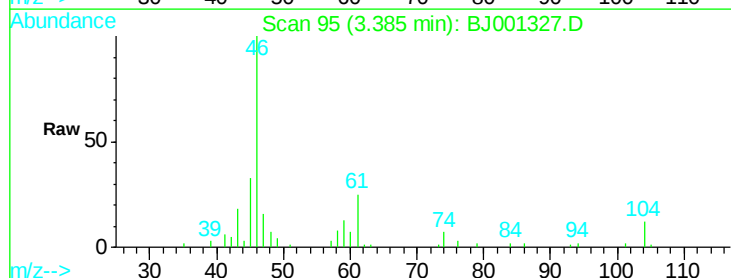
Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Tgt Ion: 46 Resp: 86093

Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 46  | 100  |      |       |
| 61  | 24.6 | 13.2 | 53.2  |
| 104 | 12.2 | 14.2 | 54.2# |

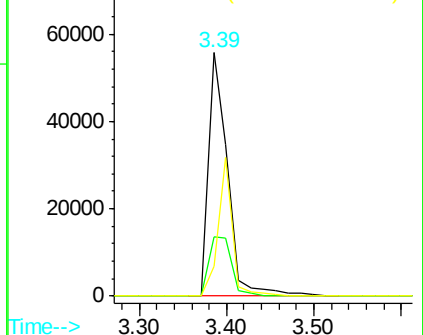


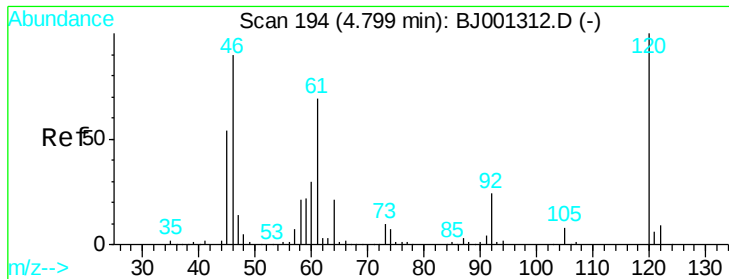
Abundance

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





#7

1,4-Dithiane

Concen: 1.16 ug/mL

RT: 4.79 min Scan# 194

Delta R.T. -0.01 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Instrument :

BNA\_J

ClientSampleId :

ICVBJ121012

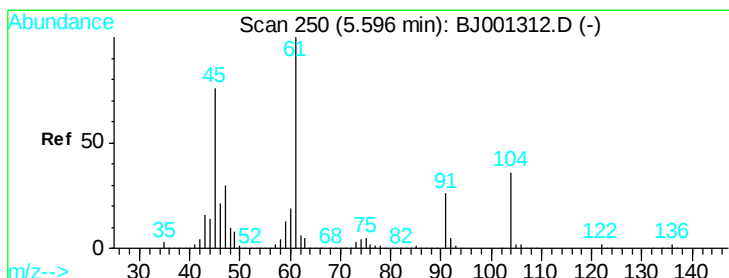
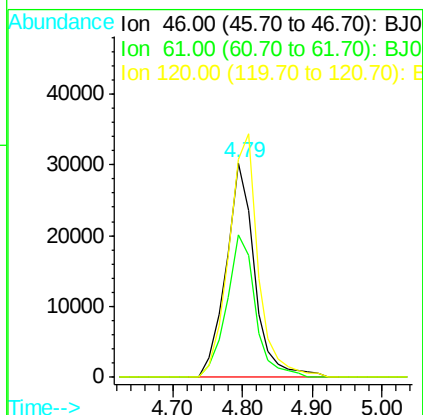
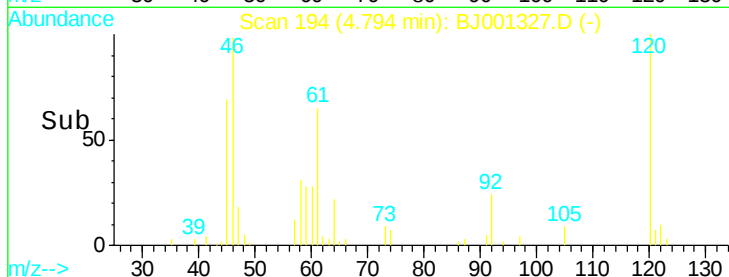
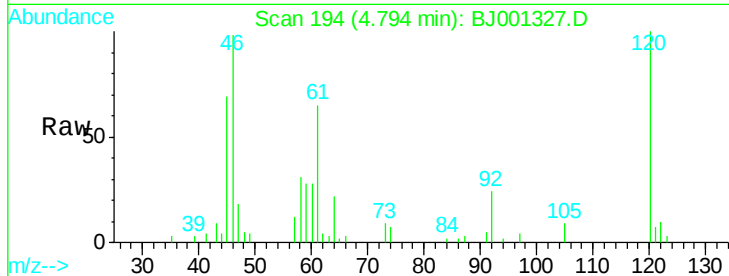
Tgt Ion: 46 Resp: 86077

Ion Ratio Lower Upper

46 100

61 66.4 57.0 97.0

120 102.0 91.5 131.5



#8

Thiodiglycol

Concen: 6.19 ug/mL

RT: 5.58 min Scan# 249

Delta R.T. -0.02 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

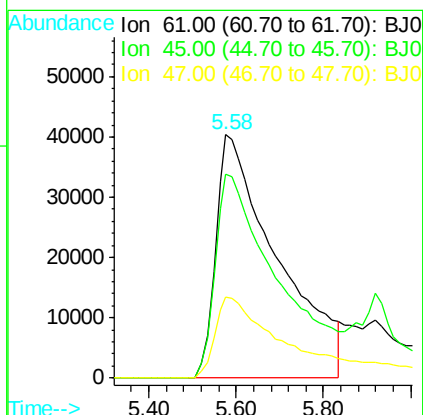
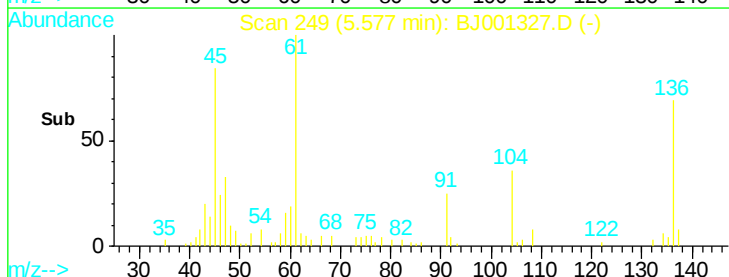
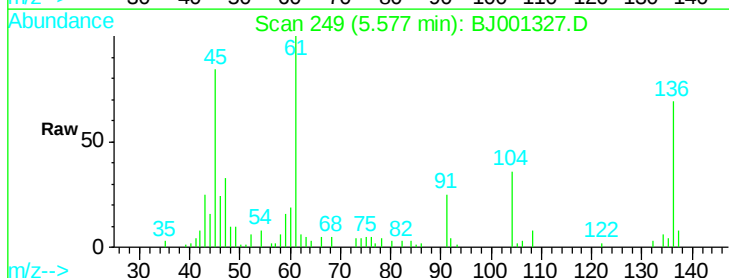
Tgt Ion: 61 Resp: 394127

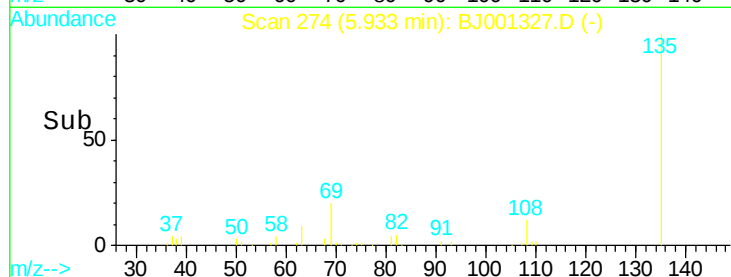
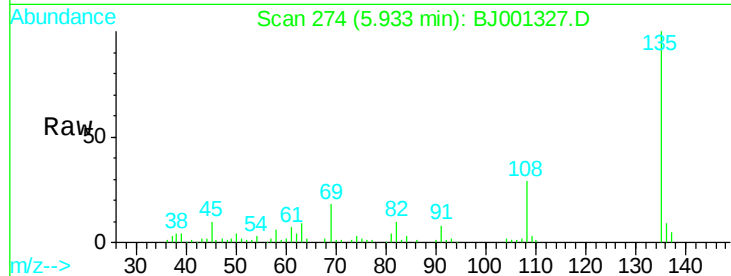
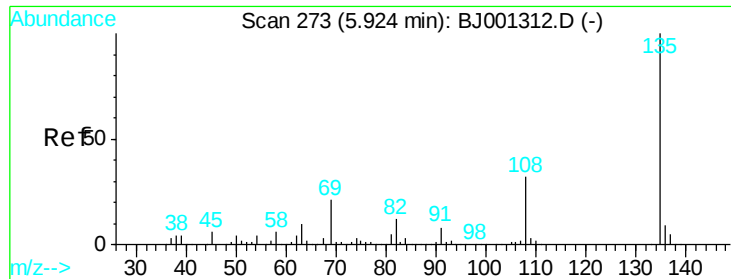
Ion Ratio Lower Upper

61 100

45 83.7 56.0 96.0

47 33.4 10.0 50.0





#9

Benzothiazole

Concen: 2.36 ug/mL

RT: 5.93 min Scan# 274

Delta R.T. -0.00 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Instrument :

BNA\_J

ClientSampleId :

ICVBJ121012

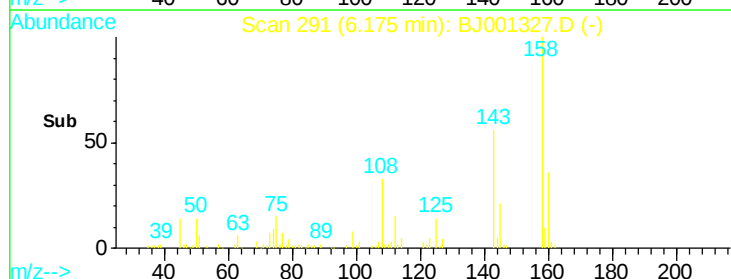
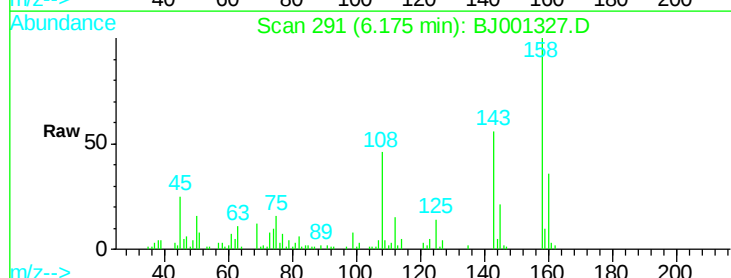
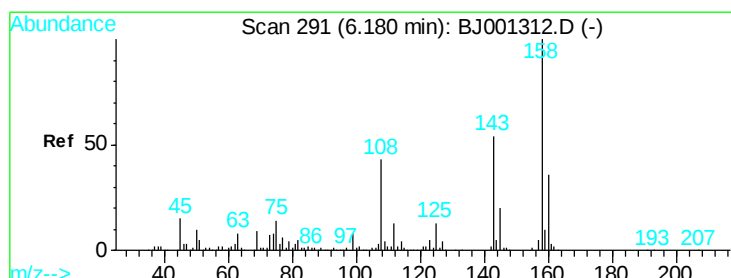
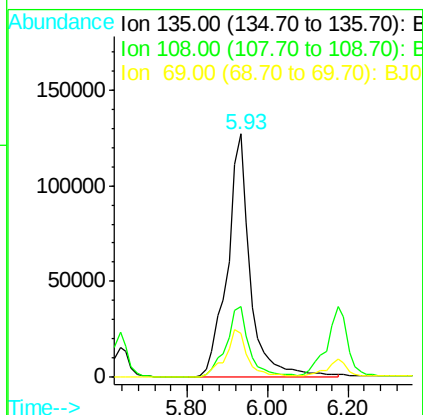
Tgt Ion:135 Resp: 502810

Ion Ratio Lower Upper

135 100

108 29.1 12.0 52.0

69 17.9 1.1 41.1



#11

p-Chlorophenylmethylsulfide

Concen: 2.39 ug/mL

RT: 6.17 min Scan# 291

Delta R.T. -0.00 min

Lab File: BJ001327.D

Acq: 10 Dec 2012 18:28

Tgt Ion:158 Resp: 305598

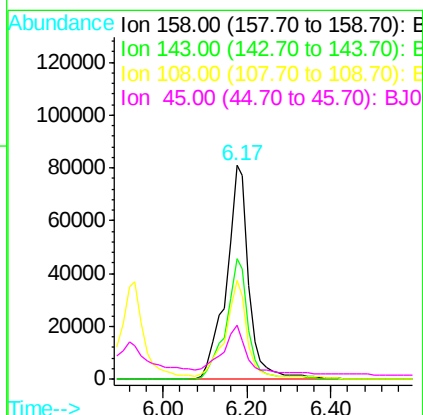
Ion Ratio Lower Upper

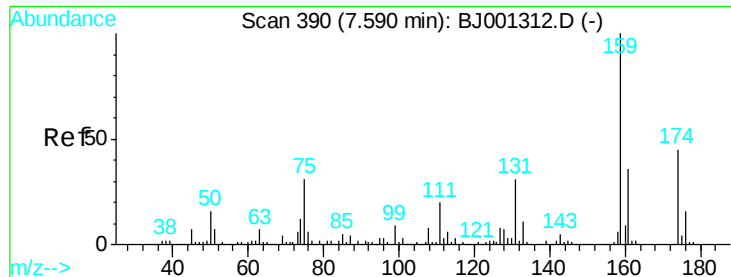
158 100

143 56.5 34.4 74.4

108 45.9 22.9 62.9

45 25.2 0.0 36.9

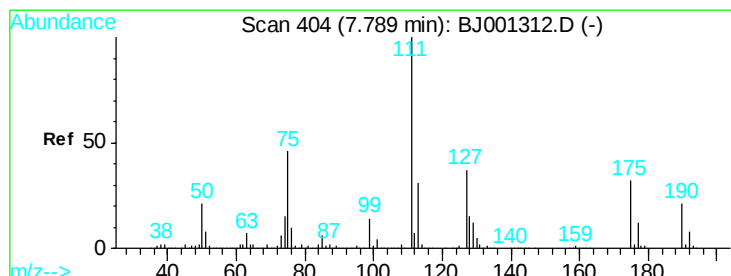
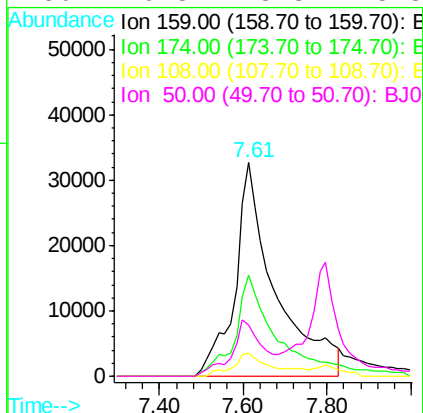
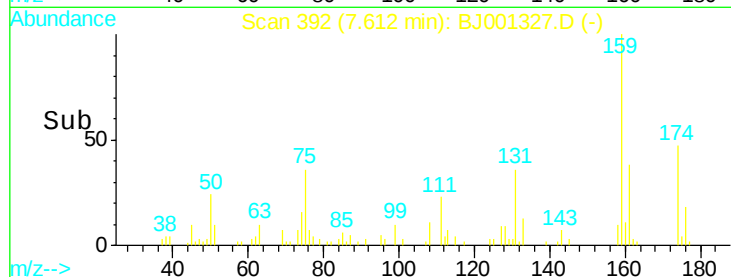
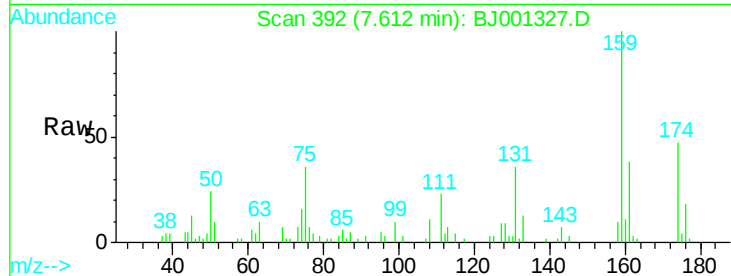




#13  
p-Chlorophenylmethylsulfoxide  
Concen: 2.09 ug/mL  
RT: 7.61 min Scan# 392  
Delta R.T. 0.03 min  
Lab File: BJ001327.D  
Acq: 10 Dec 2012 18:28

Instrument :  
BNA\_J  
ClientSampleId :  
ICVBJ121012

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 159   | Resp: | 217299 |
| Ion      | Ratio | Lower | Upper  |
| 159      | 100   |       |        |
| 174      | 47.0  | 26.4  | 66.4   |
| 108      | 10.8  | 0.0   | 29.6   |
| 50       | 20.8  | 3.3   | 43.3   |



#14  
p-Chlorophenylmethylsulfone  
Concen: 2.28 ug/mL  
RT: 7.80 min Scan# 405  
Delta R.T. 0.01 min  
Lab File: BJ001327.D  
Acq: 10 Dec 2012 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 111   | Resp: | 309262 |
| Ion      | Ratio | Lower | Upper  |
| 111      | 100   |       |        |
| 75       | 45.9  | 27.3  | 67.3   |
| 127      | 40.0  | 17.0  | 57.0   |
| 190      | 25.4  | 0.8   | 40.8   |

