

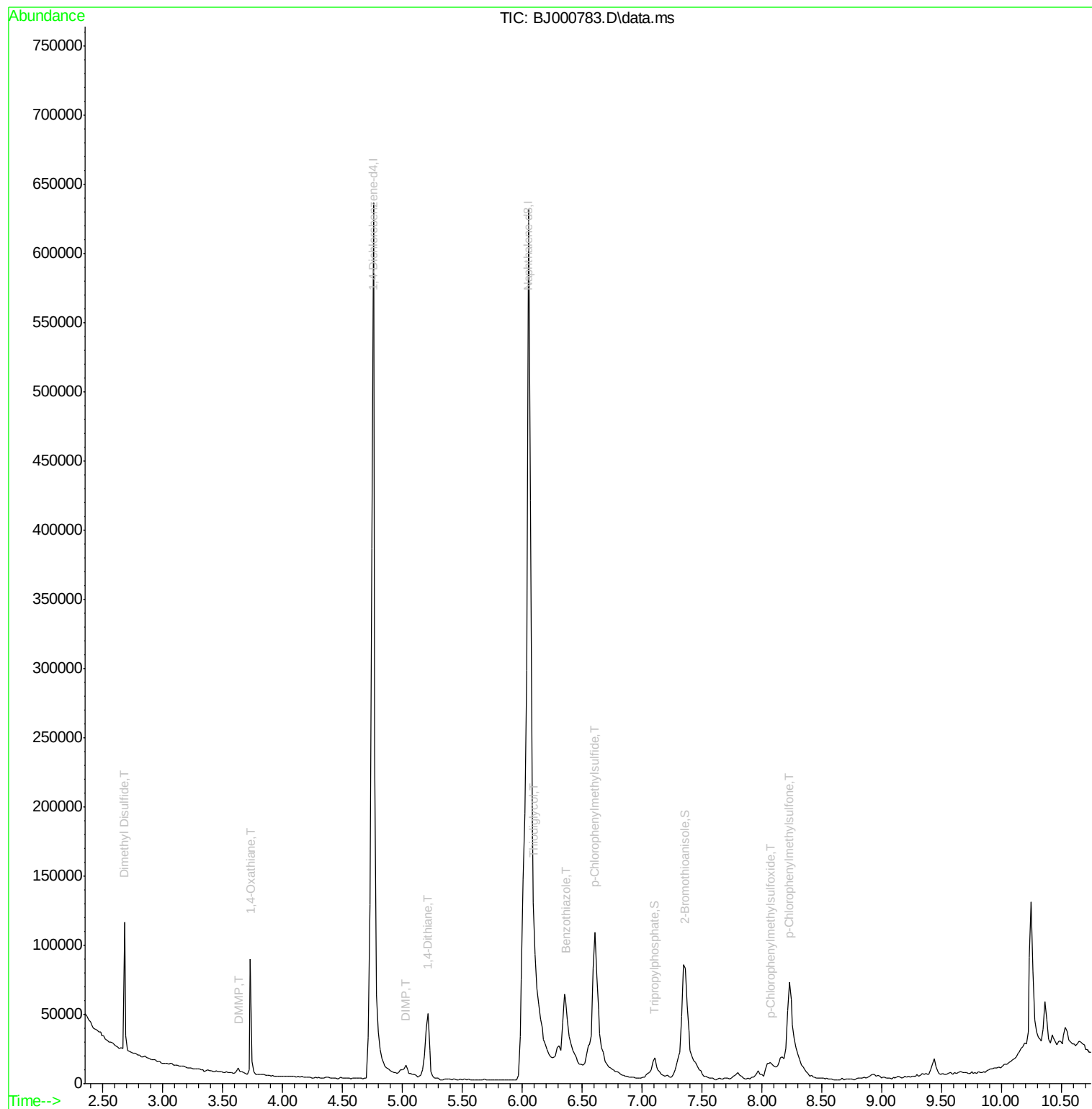
Data Path : Z:\HPCHEM1\BNA\_J\data\BJ042612\  
Data File : BJ000783.D  
Acq On : 26 Apr 2012 14:46  
Operator : HLM  
Sample : CWA-1  
Misc : STD BNA\_J HLM  
ALS Vial : 7 Sample Multiplier: 1

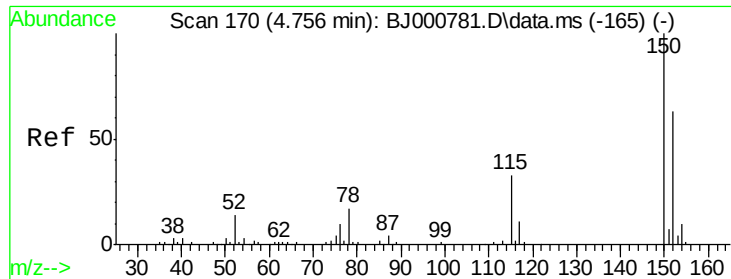
Instrument :  
BNA\_J  
ClientSampleId :  
CWA-1

Manual Integrations  
APPROVED

AHPatel  
5/3/2012 1:41:32 AM

Quant Time: May 03 01:29:20 2012  
Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ042612.M  
Quant Title : CWA degradation products by GCMS  
QLast Update : Thu Apr 26 16:03:58 2012  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 2.00 ug/mL

RT: 4.756 min Scan# 17

Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

Instrument :

BNA\_J

ClientSampleId :

CWA-1

Tgt Ion:152 Resp: 276593

Ion Ratio Lower Upper

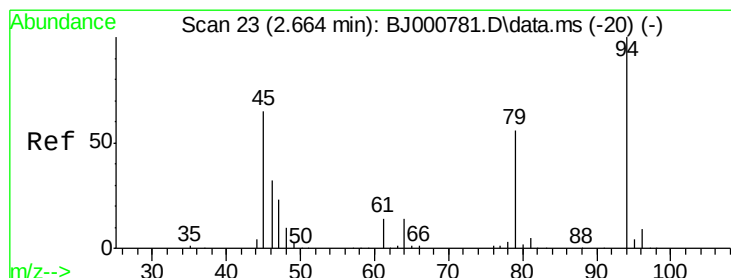
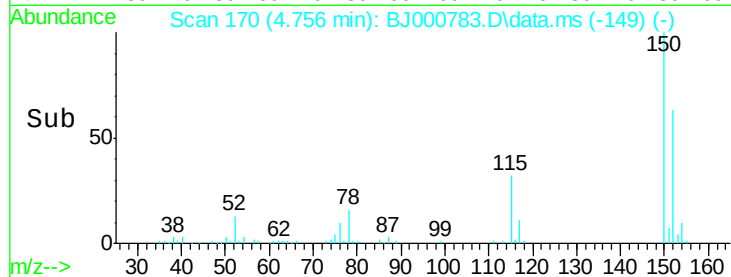
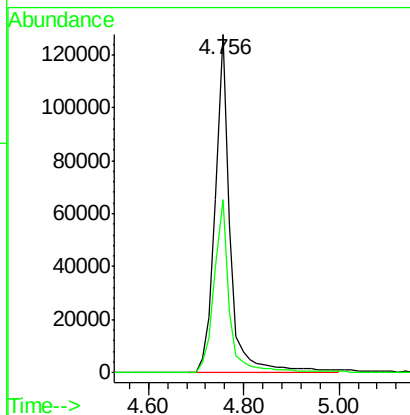
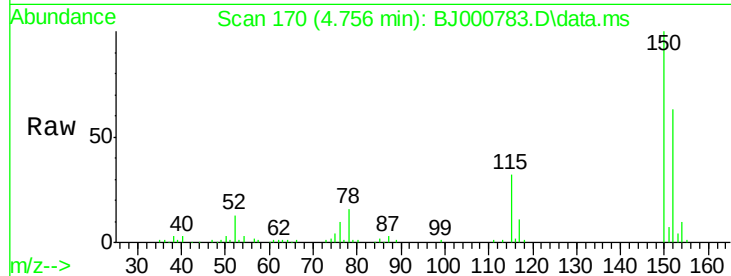
152 100

115 51.1 36.9 76.9

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#2

Dimethyl Disulfide

Concen: 0.24 ug/mL

RT: 2.678 min Scan# 24

Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

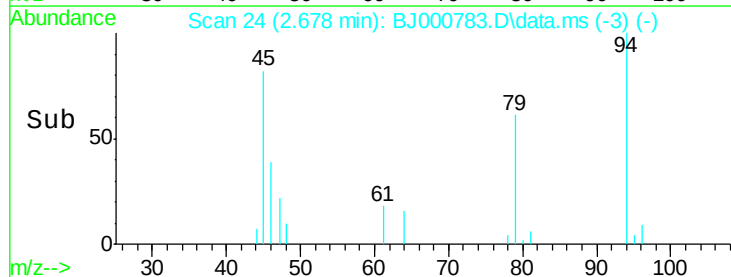
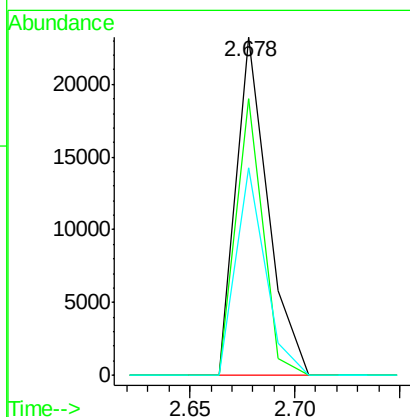
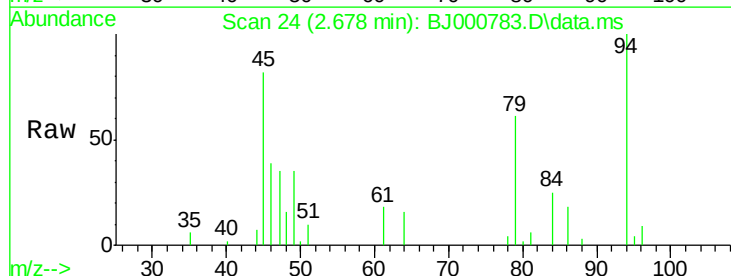
Tgt Ion: 94 Resp: 24773

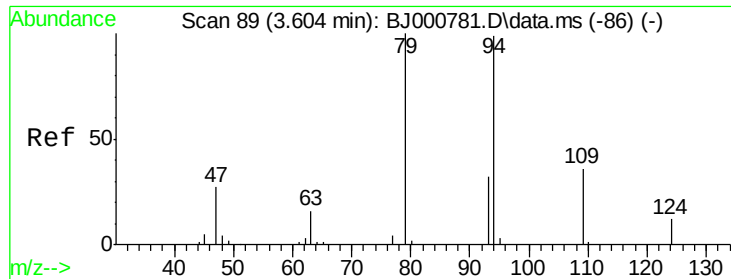
Ion Ratio Lower Upper

94 100

45 81.8 72.8 112.8

79 61.5 43.9 83.9





#3

DMMP

Concen: 0.05 ug/mL

RT: 3.631 min Scan# 91

Delta R.T. 0.019 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

Instrument :

BNA\_J

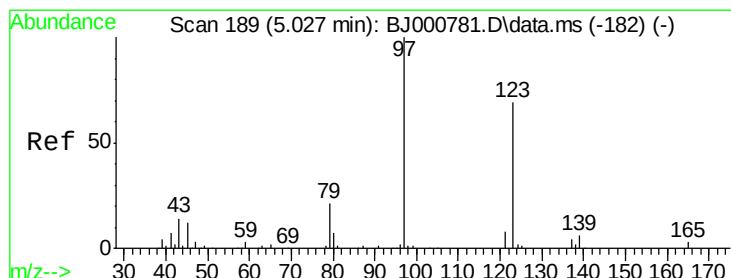
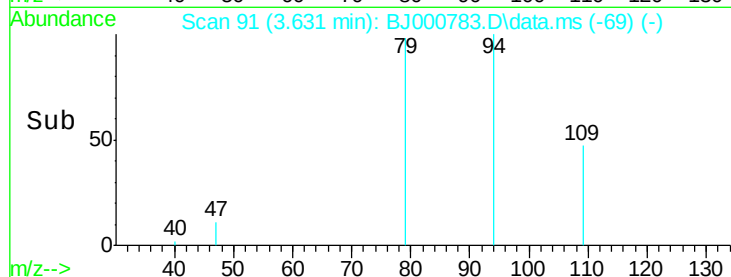
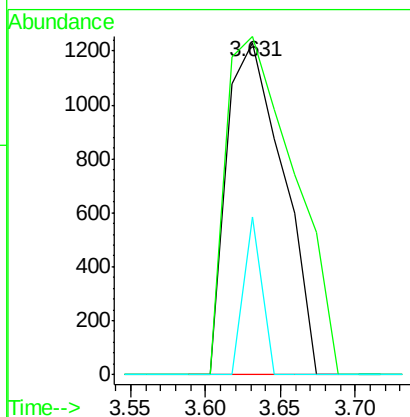
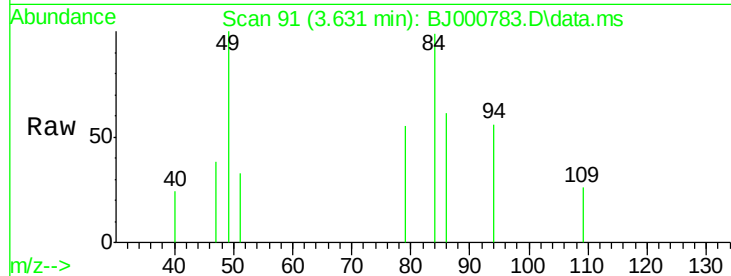
ClientSampleId :

CWA-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 94      | 101.8 | 81.5  | 121.5 |
| 109     | 47.4  | 18.2  | 58.2  |

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#4

DIMP

Concen: 0.07 ug/mL

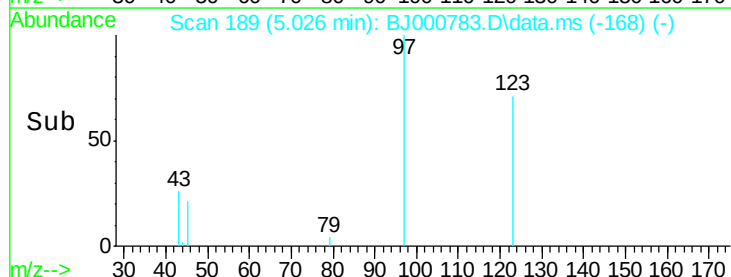
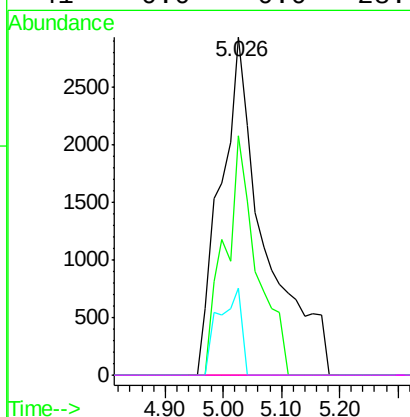
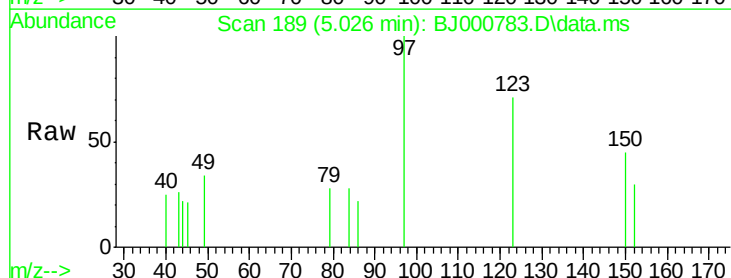
RT: 5.026 min Scan# 189

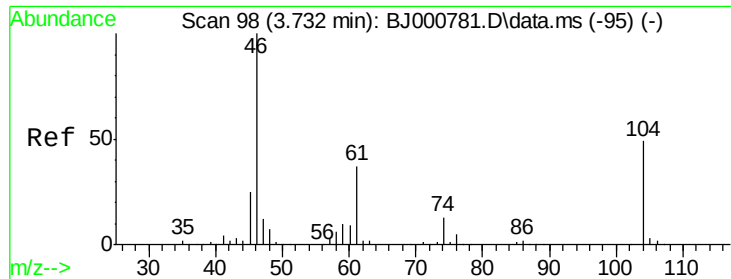
Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 123     | 71.0  | 40.6  | 80.6  |
| 43      | 25.7  | 0.0   | 37.6  |
| 41      | 0.0   | 0.0   | 28.4  |





#5

1,4-Oxathiane

Concen: 0.26 ug/mL

RT: 3.731 min Scan# 98

Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

Instrument :

BNA\_J

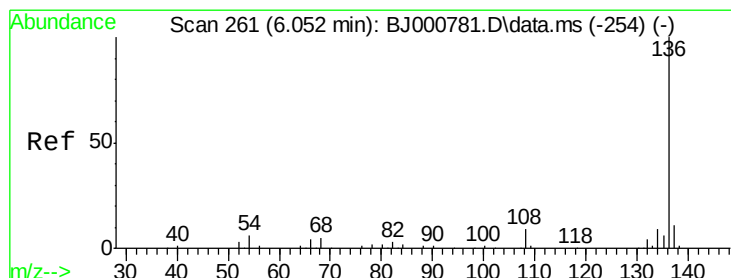
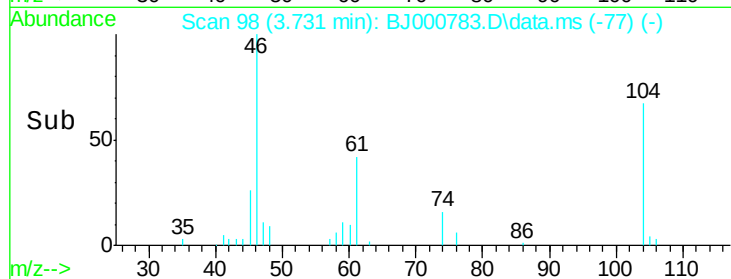
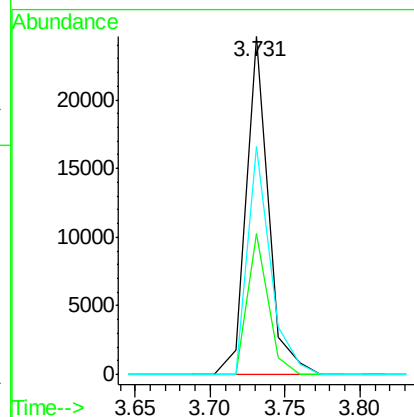
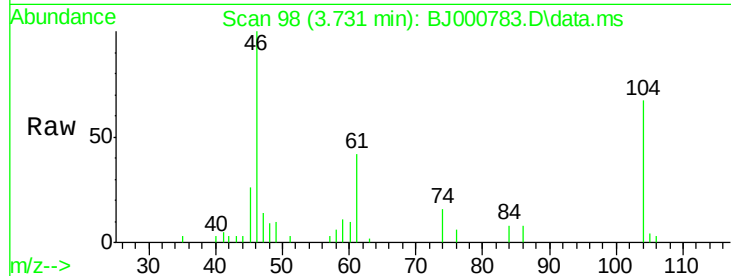
ClientSampleId :

CWA-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 46    | Resp: | 25515 |
| Ion Ratio | Lower | Upper |       |
| 46        | 100   |       |       |
| 61        | 41.5  | 14.6  | 54.6  |
| 104       | 67.4  | 13.7  | 53.7# |

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#6

Naphthalene-d8

Concen: 2.00 ug/mL

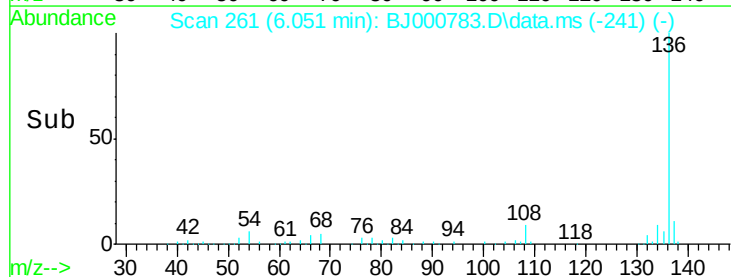
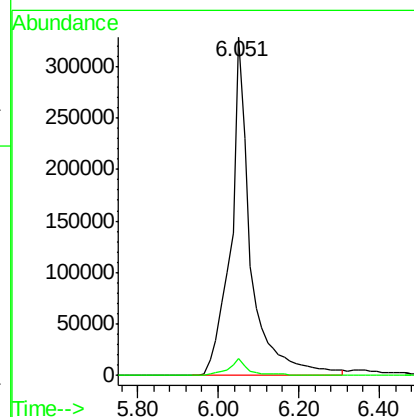
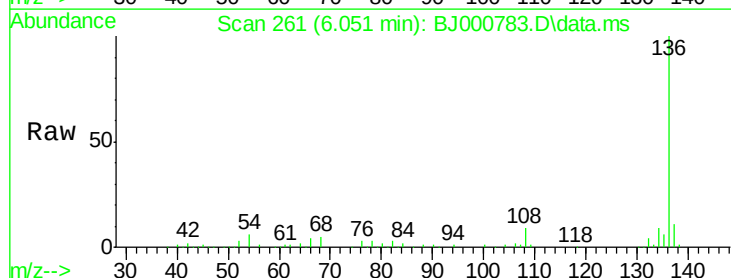
RT: 6.051 min Scan# 261

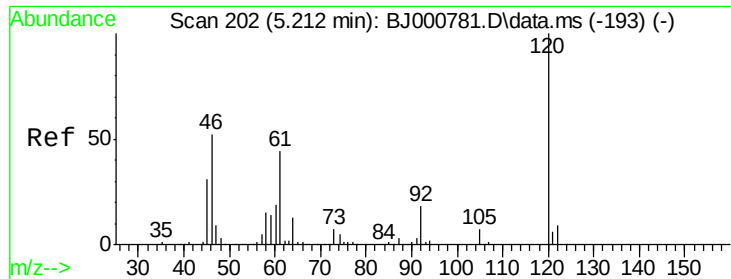
Delta R.T. -0.009 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 136   | Resp: | 1118498 |
| Ion Ratio | Lower | Upper |         |
| 136       | 100   |       |         |
| 68        | 4.9   | 0.0   | 23.7    |





#7

1,4-Dithiane

Concen: 0.23 ug/mL

RT: 5.211 min Scan# 20

Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

Instrument :

BNA\_J

ClientSampleId :

CWA-1

Tgt Ion: 46 Resp: 17828

Ion Ratio Lower Upper

46 100

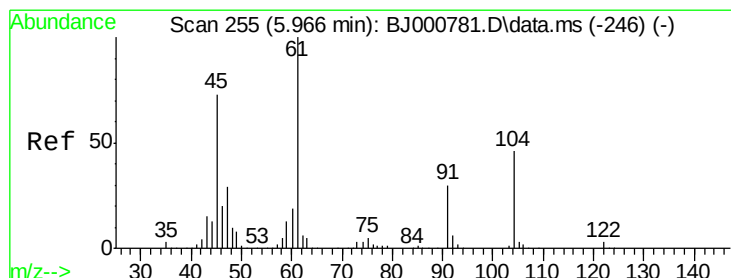
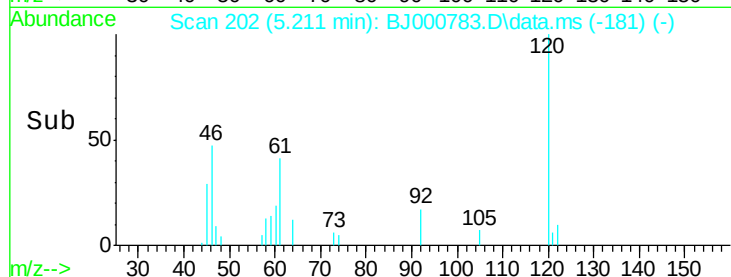
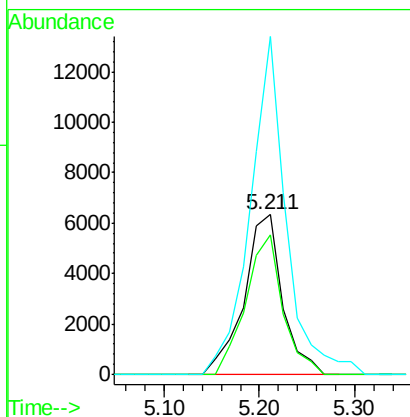
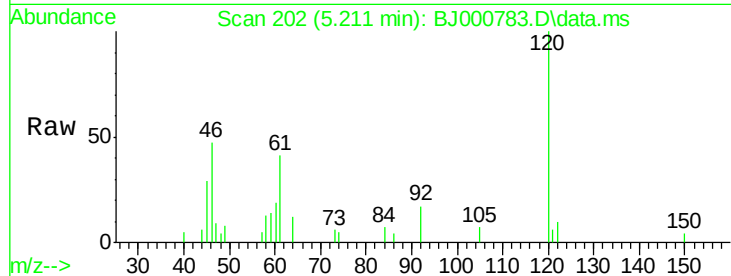
61 87.4 62.3 102.3

120 211.6 149.0 189.0#

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#8

Thiodiglycol

Concen: 1.63 ug/mL m

RT: 6.094 min Scan# 264

Delta R.T. 0.147 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

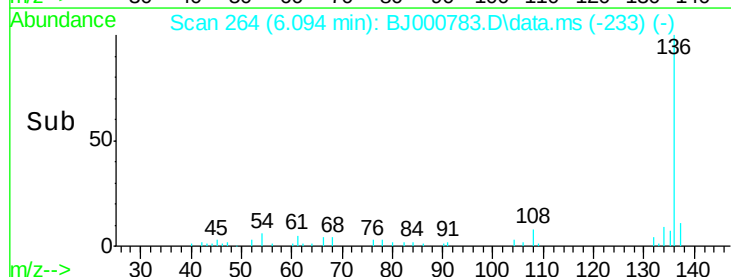
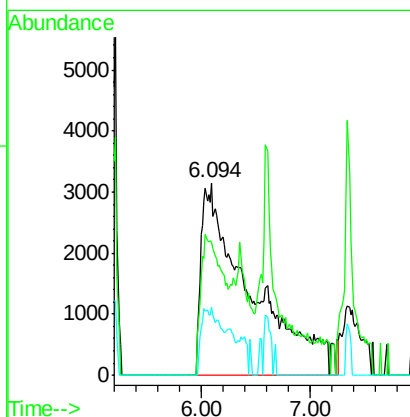
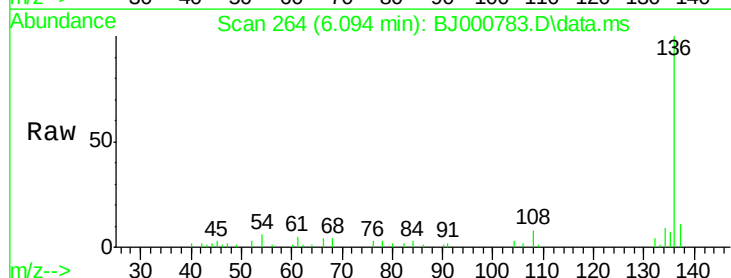
Tgt Ion: 61 Resp: 100282

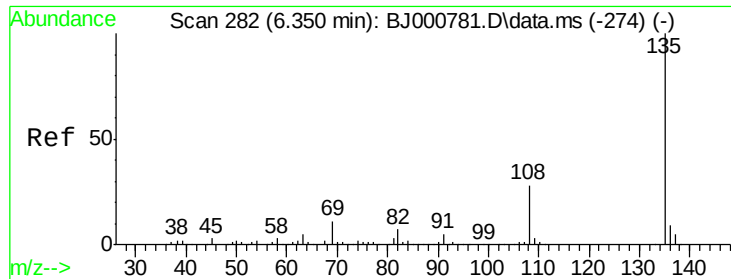
Ion Ratio Lower Upper

61 100

45 69.3 49.4 89.4

47 35.1 7.9 47.9





#9

Benzothiazole

Concen: 0.43 ug/mL

RT: 6.364 min Scan# 28

Delta R.T. 0.019 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

Instrument :

BNA\_J

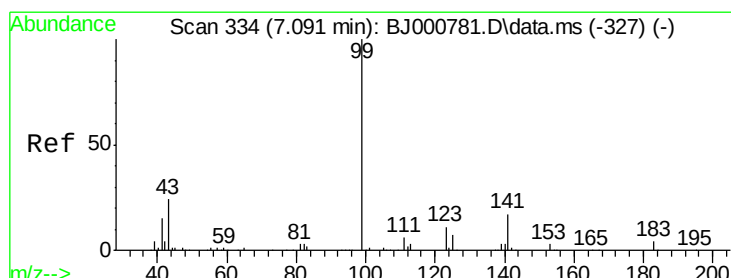
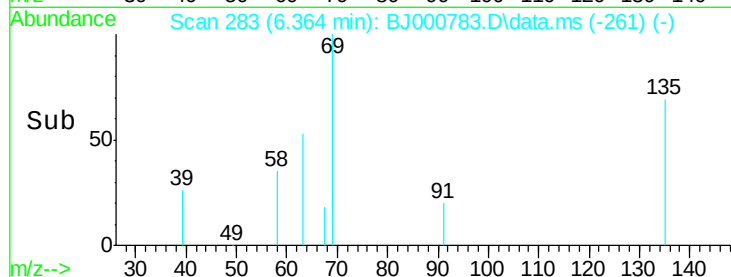
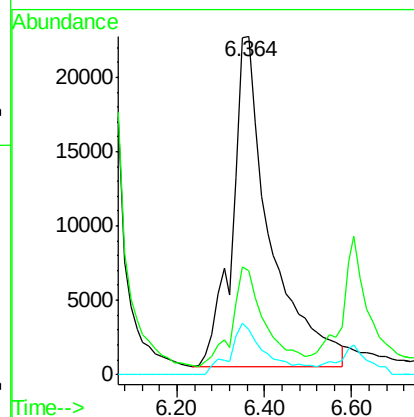
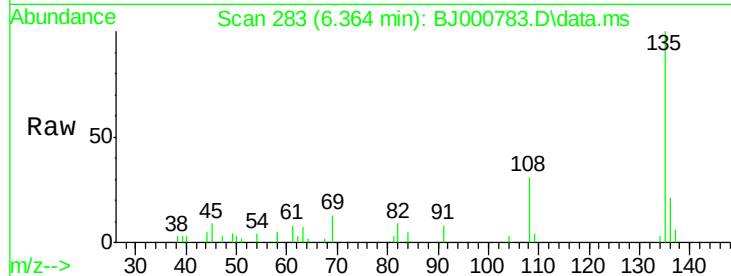
ClientSampled :

CWA-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 135   | Resp: | 132563 |
| Ion Ratio | Lower | Upper |        |
| 135       | 100   |       |        |
| 108       | 30.6  | 11.0  | 51.0   |
| 69        | 13.1  | 0.0   | 34.2   |

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#10

Tripropylphosphate

Concen: 0.09 ug/mL

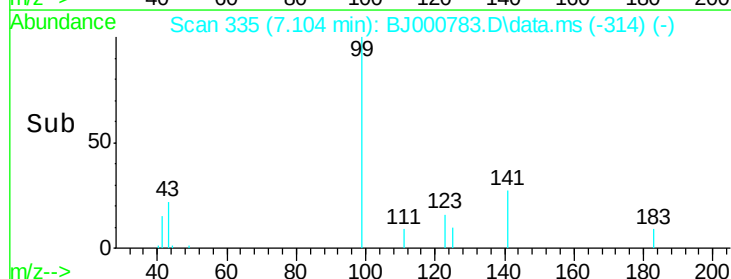
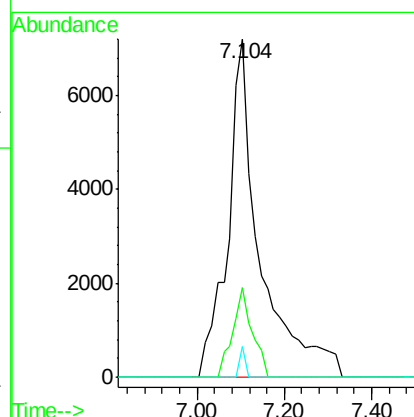
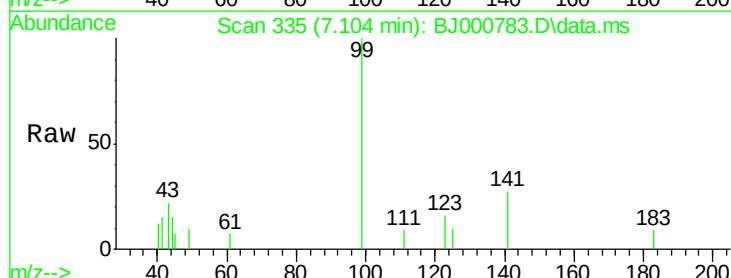
RT: 7.104 min Scan# 335

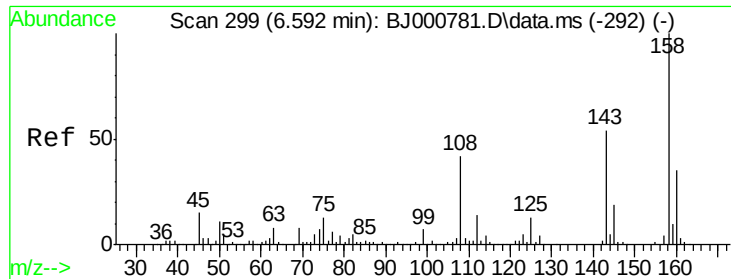
Delta R.T. 0.005 min

Lab File: BJ000783.D

Acq: 26 Apr 2012 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 36482 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 141       | 16.1  | 17.8  | 26.6# |
| 183       | 1.5   | 5.4   | 8.0#  |





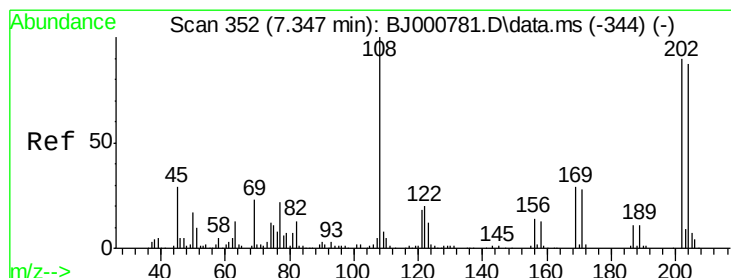
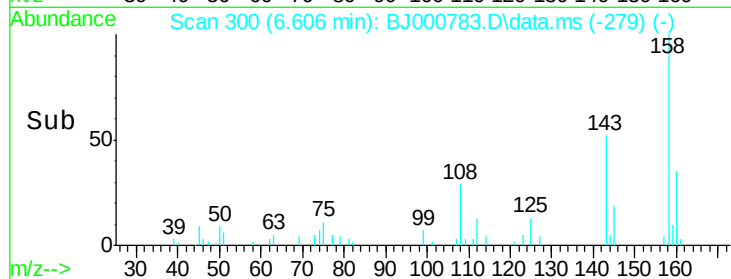
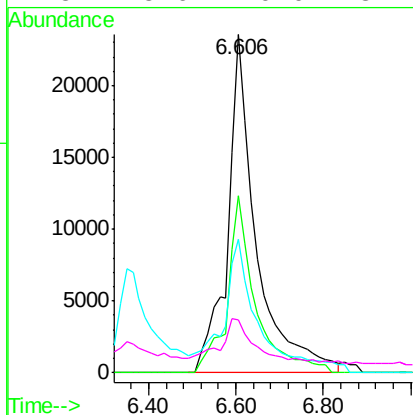
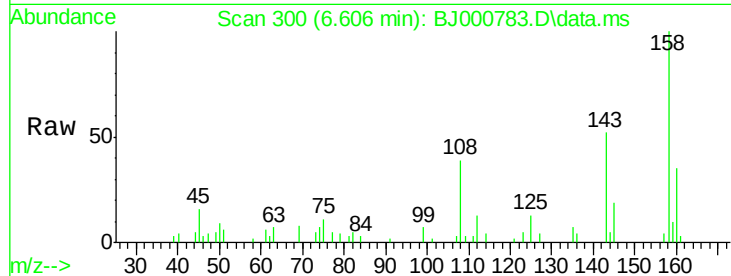
#11  
p-Chlorophenylmethylsulfide  
Concen: 0.51 ug/mL  
RT: 6.606 min Scan# 30  
Delta R.T. 0.005 min  
Lab File: BJ000783.D  
Acq: 26 Apr 2012 14:46

Instrument :  
BNA\_J  
ClientSampleId :  
CWA-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 158   | Resp: | 105430 |
| Ion Ratio | Lower | Upper |        |
| 158       | 100   |       |        |
| 143       | 52.2  | 31.4  | 71.4   |
| 108       | 39.3  | 15.5  | 55.5   |
| 45        | 15.6  | 0.0   | 32.2   |

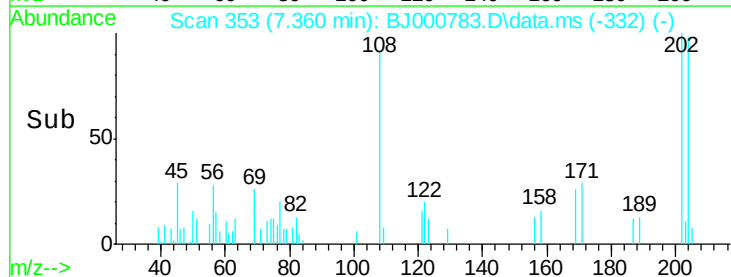
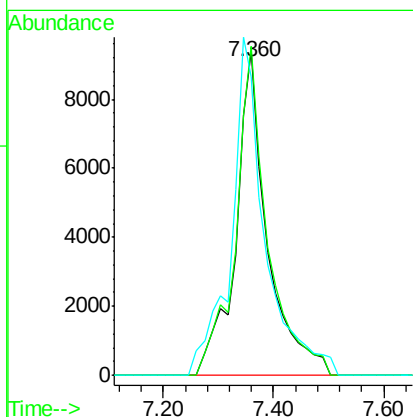
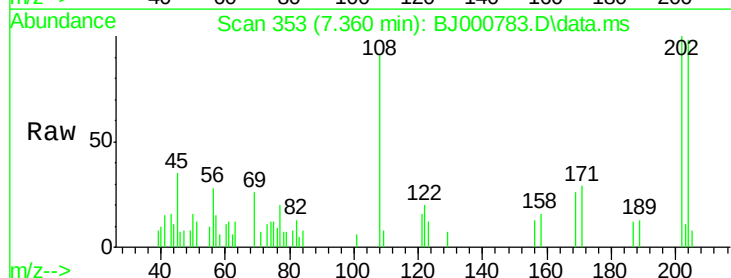
Manual Integrations  
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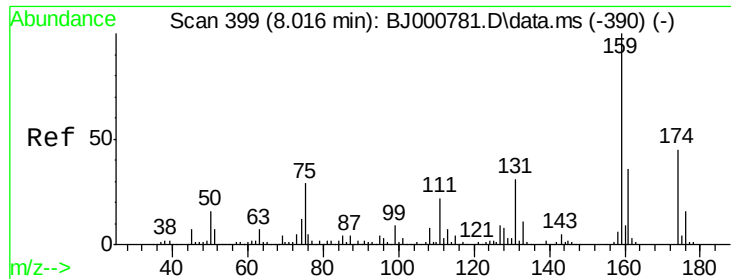
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#12  
2-Bromothioanisole  
Concen: 0.48 ug/mL  
RT: 7.360 min Scan# 353  
Delta R.T. 0.005 min  
Lab File: BJ000783.D  
Acq: 26 Apr 2012 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 204   | Resp: | 37480 |
| Ion Ratio | Lower | Upper |       |
| 204       | 100   |       |       |
| 202       | 101.6 | 82.9  | 122.9 |
| 108       | 92.0  | 57.9  | 97.9  |





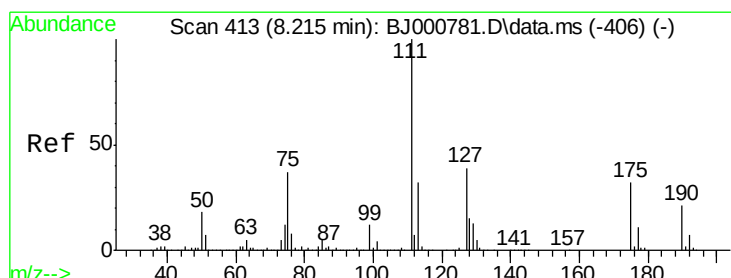
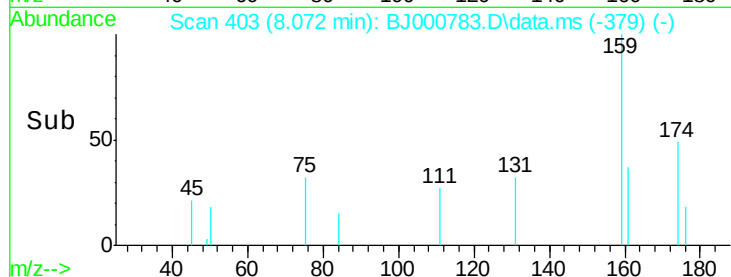
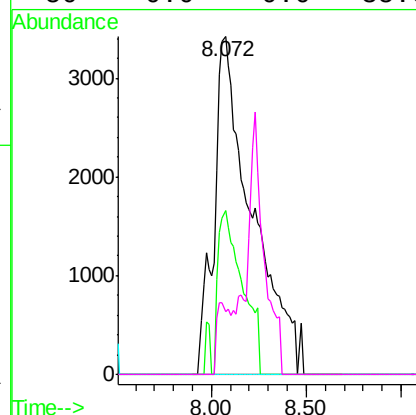
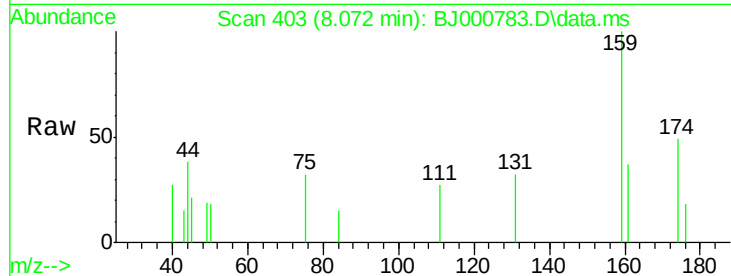
#13  
p-Chlorophenylmethylsulfoxide  
Concen: 0.44 ug/mL m  
RT: 8.072 min Scan# 401  
Delta R.T. 0.048 min  
Lab File: BJ000783.D  
Acq: 26 Apr 2012 14:46

Instrument :  
BNA\_J  
ClientSampleId :  
CWA-1

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 159     | 100   | 47483 |       |       |
| 174     | 1.9   | 31.3  | 71.3# |       |
| 108     | 0.0   | 0.0   | 31.3  |       |
| 50      | 0.0   | 0.0   | 35.6  |       |

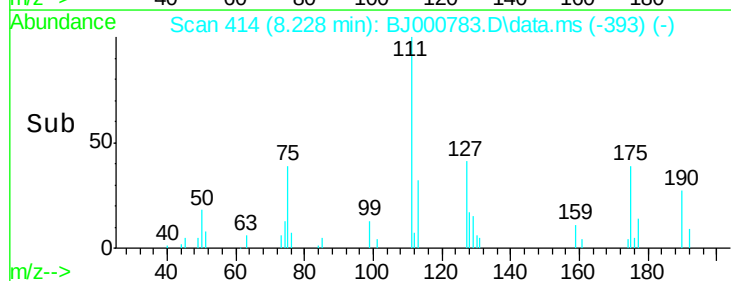
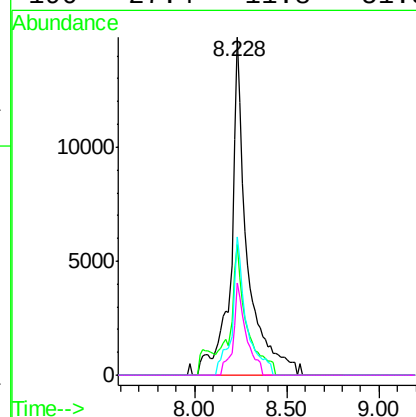
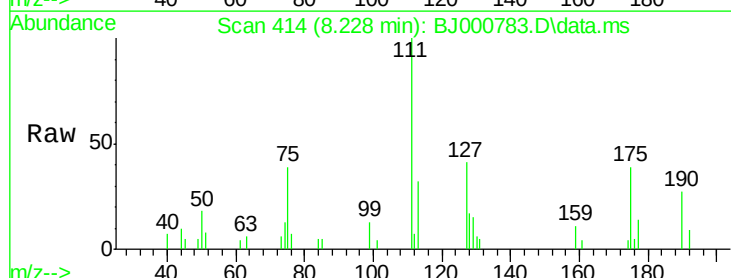
Manual Integrations  
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#14  
p-Chlorophenylmethylsulfone  
Concen: 0.56 ug/mL m  
RT: 8.228 min Scan# 414  
Delta R.T. 0.005 min  
Lab File: BJ000783.D  
Acq: 26 Apr 2012 14:46

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 111     | 100   | 90501 |       |       |
| 75      | 38.8  | 14.1  | 54.1  |       |
| 127     | 41.0  | 21.7  | 61.7  |       |
| 190     | 27.4  | 11.8  | 51.8  |       |





Data Path : Z:\HPCHEM1\BNA\_J\data\BJ042612\  
 Data File : BJ000783.D  
 Acq On : 26 Apr 2012 14:46  
 Operator : HLM  
 Sample : CWA-1  
 Misc : STD BNA\_J HLM  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_J  
 ClientSampleId :  
 CWA-1

Manual Integrations  
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 5/3/2012 1:41:32 AM

Quant Time: May 03 01:29:20 2012  
 Quant Method : H:\VOL1\GCMSDATA\J\METHODS\BJ042612.M  
 Quant Title : CWA degradation products by GCMS  
 QLast Update : Thu Apr 26 16:03:58 2012  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response | Conc | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|------|---------|----------|
| -----                         |                |      |          |      |         |          |
| Internal Standards            |                |      |          |      |         |          |
| 1) 1,4-Dichlorobenzene-d4     | 4.756          | 152  | 276593   | 2.00 | ug/mL   | 0.00     |
| 6) Naphthalene-d8             | 6.051          | 136  | 1118498  | 2.00 | ug/mL   | 0.00     |
| System Monitoring Compounds   |                |      |          |      |         |          |
| 10) Tripropylphosphate        | 7.104          | 99   | 36482    | 0.09 | ug/mL   | 0.00     |
| Spiked Amount 0.500           | Range 70 - 130 |      | Recovery | =    | 18.00%# |          |
| 12) 2-Bromothioanisole        | 7.360          | 204  | 37480    | 0.48 | ug/mL   | 0.00     |
| Spiked Amount 5.000           | Range 70 - 130 |      | Recovery | =    | 9.60%#  |          |
| Target Compounds              |                |      |          |      |         |          |
|                               |                |      |          |      |         | Qvalue   |
| 2) Dimethyl Disulfide         | 2.678          | 94   | 24773    | 0.24 | ug/mL   | 92       |
| 3) DMMP                       | 3.631          | 79   | 3229     | 0.05 | ug/mL   | 96       |
| 4) DIMP                       | 5.026          | 97   | 15423    | 0.07 | ug/mL   | 84       |
| 5) 1,4-Oxathiane              | 3.731          | 46   | 25515    | 0.26 | ug/mL#  | 65       |
| 7) 1,4-Dithiane               | 5.211          | 46   | 17828    | 0.23 | ug/mL#  | 77       |
| 8) Thiodiglycol               | 6.094          | 61   | 100282m  | 1.63 | ug/mL   |          |
| 9) Benzothiazole              | 6.364          | 135  | 132563   | 0.43 | ug/mL   | 99       |
| 11) p-Chlorophenylmethyisu... | 6.606          | 158  | 105430   | 0.51 | ug/mL   | 96       |
| 13) p-Chlorophenylmethyisu... | 8.072          | 159  | 47483m   | 0.44 | ug/mL   |          |
| 14) p-Chlorophenylmethyisu... | 8.228          | 111  | 90501m   | 0.56 | ug/mL   |          |
| -----                         |                |      |          |      |         |          |

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