

Data File : VU025390.D  
Acq On : 13 Jul 2018 13:40  
Operator : MD/SY  
Sample : J3937-07  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BEMG5

Quant Time: Jul 13 14:44:30 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM062918WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 13 14:43:42 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.76  | 114  | 42       | 50.00 | ug/L  | -0.13    |
| 28) Chlorobenzene-d5       | 0.00  | 117  | 0        | 0.00  | ug/L  | -9.09    |
| 60) 1,4-Dichlorobenzene-d4 | 11.58 | 152  | 65419    | 50.00 | ug/L  | 0.10     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 0.00    | 65    | 0        | 0.00     | ug/L |          |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 0.00%#   |
| 7) Chloroethane-d5             | 0.00    | 69    | 0        | 0.00     | ug/L |          |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 0.00%#   |
| 11) 1,1-Dichloroethene-d2      | 0.00    | 63    | 0        | 0.00     | ug/L |          |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 0.00%#   |
| 21) 2-Butanone-d5              | 4.42    | 46    | 131      | 624.22   | ug/L | 0.24     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 624.22%# |
| 24) Chloroform-d               | 4.63    | 84    | 66       | 122.73   | ug/L | -0.03    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 245.46%# |
| 26) 1,2-Dichloroethane-d4      | 5.26    | 65    | 108      | 283.23   | ug/L | -0.05    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 566.46%# |
| 32) Benzene-d6                 | 5.34    | 84    | 65       | 0.00     | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 0.00%#   |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 205      | 0.00     | ug/L | -0.01    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 0.00%#   |
| 41) Toluene-d8                 | 7.53    | 98    | 53       | 0.00     | ug/L | -0.04    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 0.00%#   |
| 43) trans-1,3-Dichloropropene- | 8.02    | 79    | 35120    | 0.00     | ug/L | 0.17     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 0.00%#   |
| 47) 2-Hexanone-d5              | 8.33    | 63    | 41       | 0.00     | ug/L | 0.02     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 0.00%#   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.59   | 84    | 81595    | 0.00     | ug/L | 0.16     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 0.00%#   |
| 64) 1,2-Dichlorobenzene-d4     | 11.94   | 152   | 59163    | 41.50    | ug/L | 0.08     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 83.00%   |

#### Target Compounds

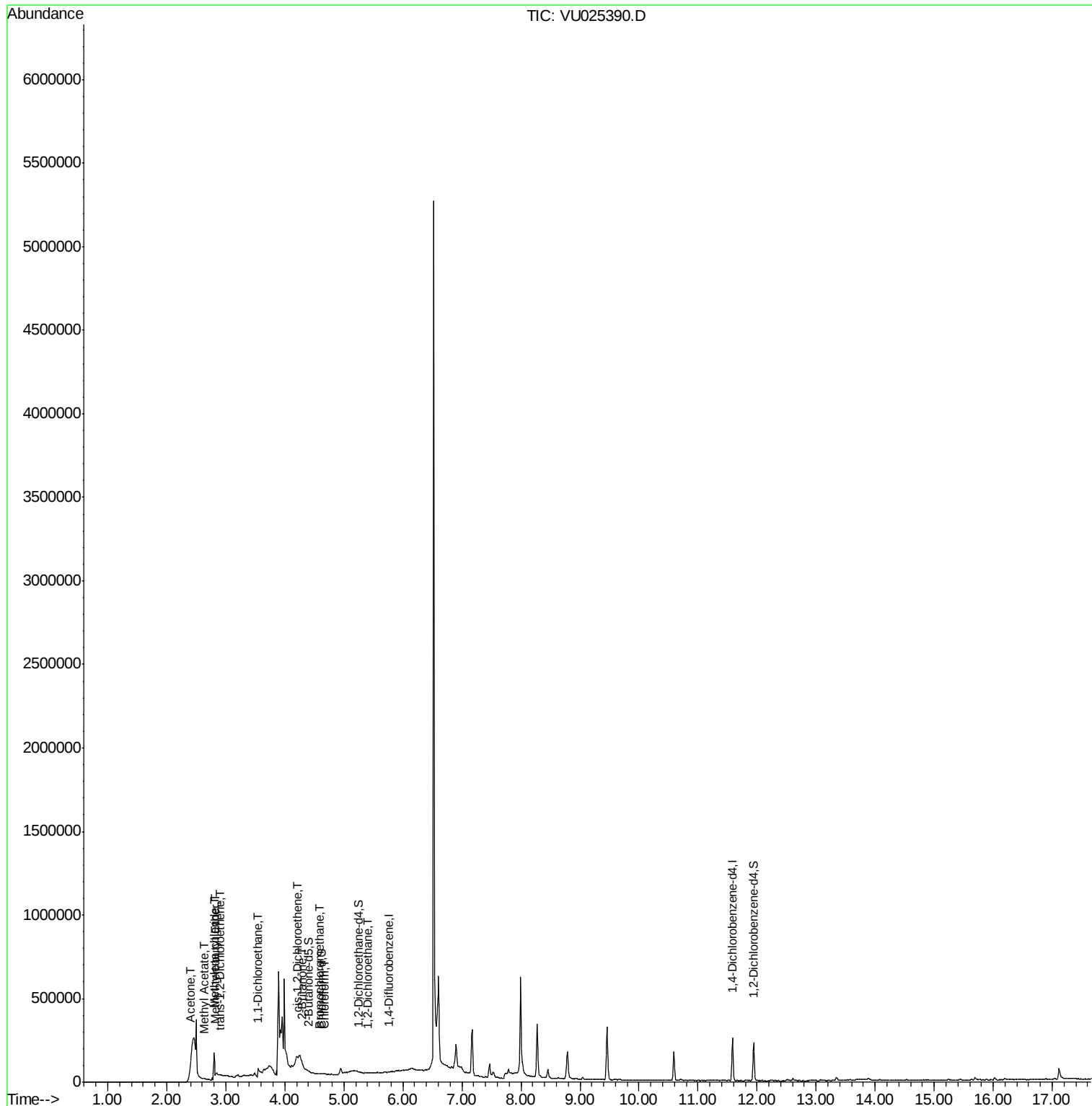
|                              |      |     |      |          |        | Qvalue |
|------------------------------|------|-----|------|----------|--------|--------|
| 13) Acetone                  | 2.39 | 43  | 166  | 769.591  | ug/L # | 45     |
| 15) Methyl Acetate           | 2.64 | 43  | 85   | 257.550  | ug/L # | 52     |
| 16) Methylene chloride       | 2.80 | 84  | 481  | 1591.102 | ug/L # | 61     |
| 17) trans-1,2-Dichloroethene | 2.91 | 96  | 116  | 415.886  | ug/L # | 1      |
| 18) Methyl tert-butyl Ether  | 2.82 | 73  | 40   | 41.213   | ug/L # | 1      |
| 19) 1,1-Dichloroethane       | 3.55 | 63  | 62   | 116.782  | ug/L # | 1      |
| 20) cis-1,2-Dichloroethene   | 4.22 | 96  | 232  | 720.196  | ug/L # | 27     |
| 22) 2-Butanone               | 4.31 | 43  | 1062 | 4161.879 | ug/L   | 86     |
| 23) Bromochloromethane       | 4.58 | 128 | 269  | 1624.301 | ug/L # | 4      |
| 25) Chloroform               | 4.68 | 83  | 61   | 107.613  | ug/L   | 92     |
| 27) 1,2-Dichloroethane       | 5.40 | 62  | 87   | 183.133  | ug/L # | 77     |

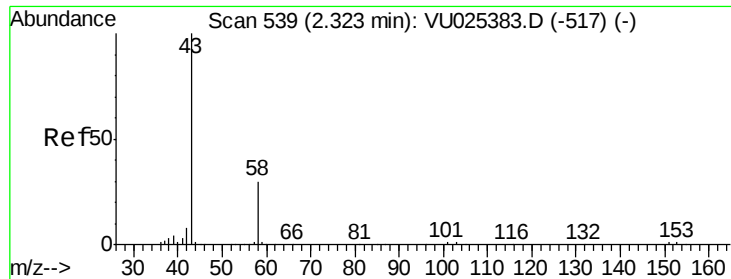
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 769.591 ug/L

RT: 2.39 min Scan# 559

Delta R.T. 0.07 min

Lab File: VU025390.D

Acq: 13 Jul 2018 13:40

Instrument :

MSVOA\_U

ClientSampleId :

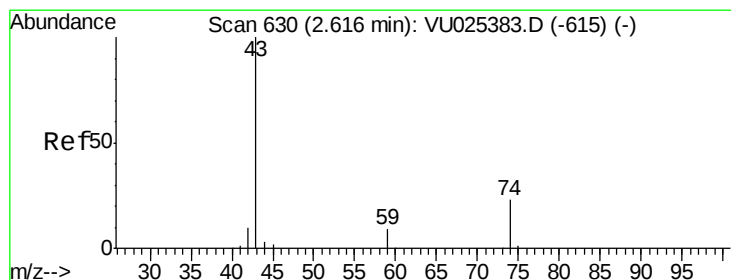
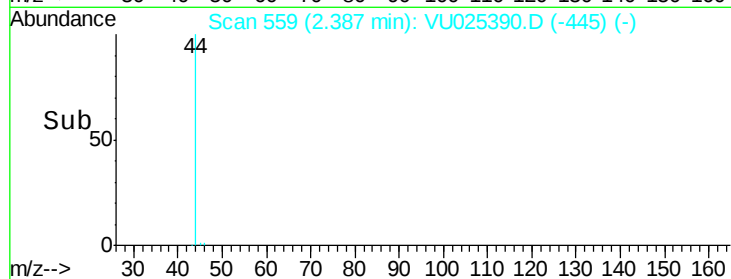
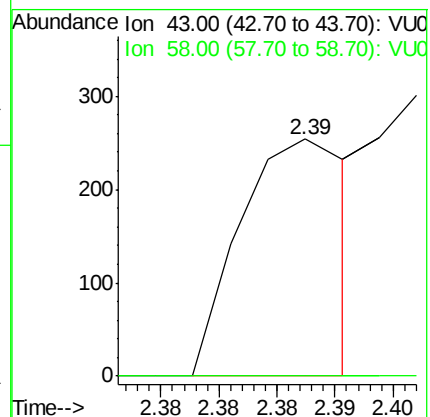
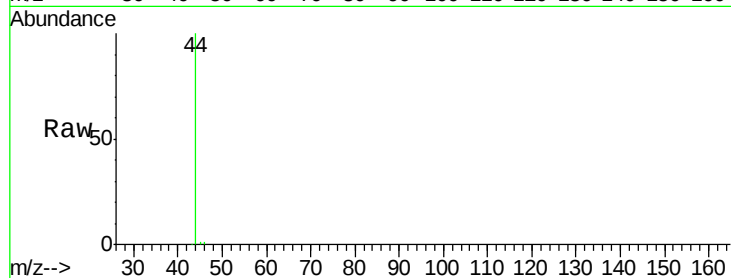
BEMG5

Tgt Ion: 43 Resp: 166

Ion Ratio Lower Upper

43 100

58 0.0 0.0 59.4



#15

Methyl Acetate

Concen: 257.550 ug/L

RT: 2.64 min Scan# 639

Delta R.T. 0.03 min

Lab File: VU025390.D

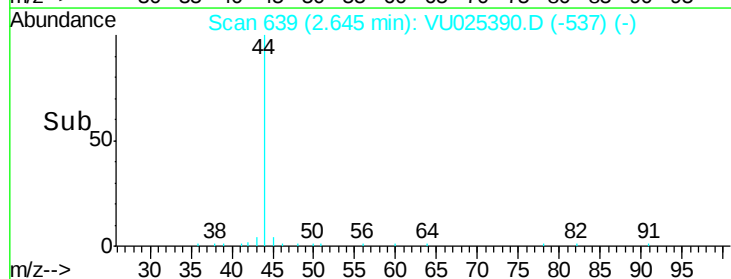
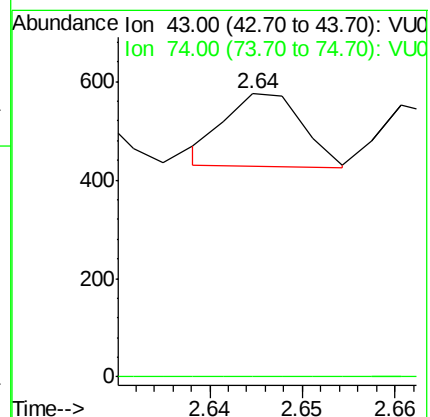
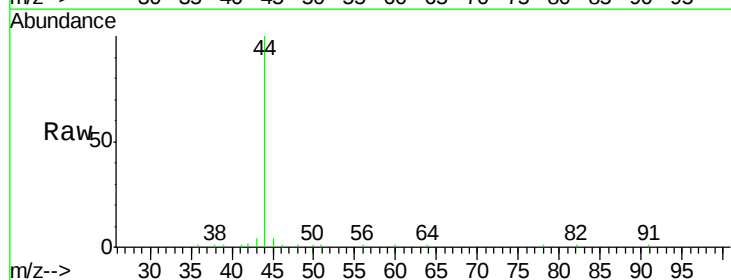
Acq: 13 Jul 2018 13:40

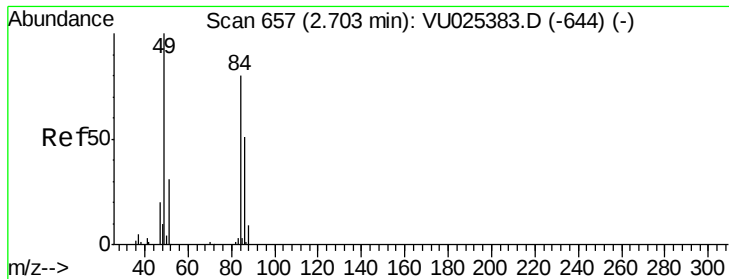
Tgt Ion: 43 Resp: 85

Ion Ratio Lower Upper

43 100

74 0.0 18.6 28.0#

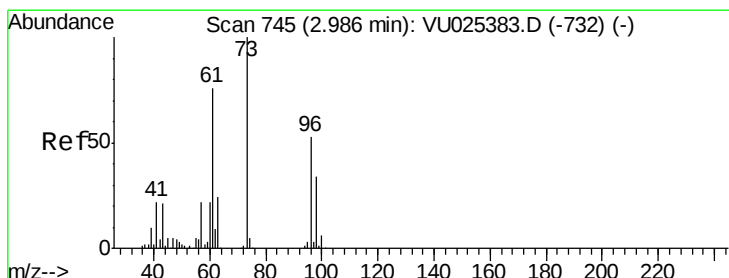
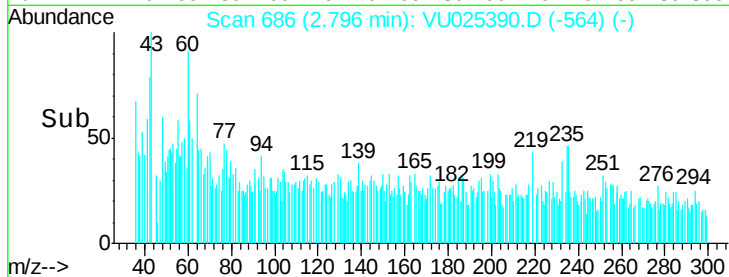
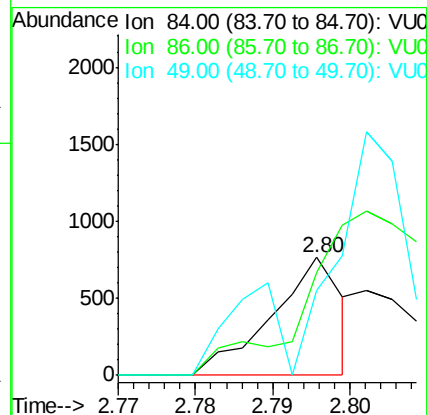
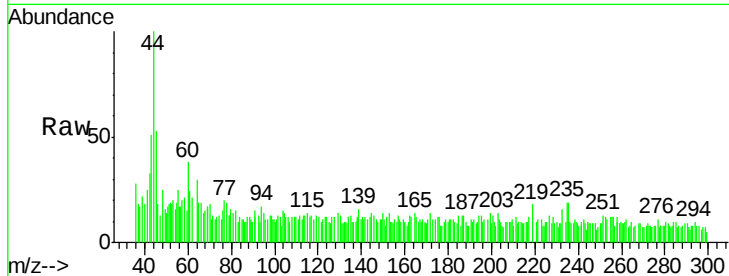




#16  
Methylene chloride  
Concen: 1591.102 ug/L  
RT: 2.80 min Scan# 686  
Delta R.T. 0.09 min  
Lab File: VU025390.D  
Acq: 13 Jul 2018 13:40

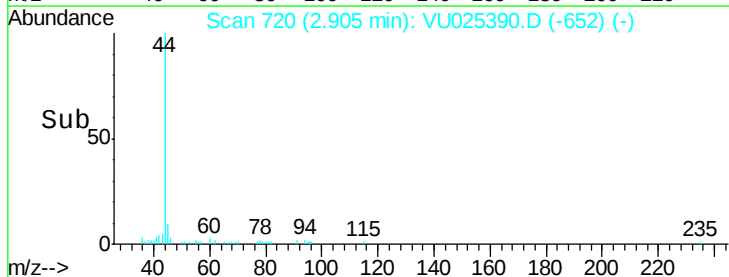
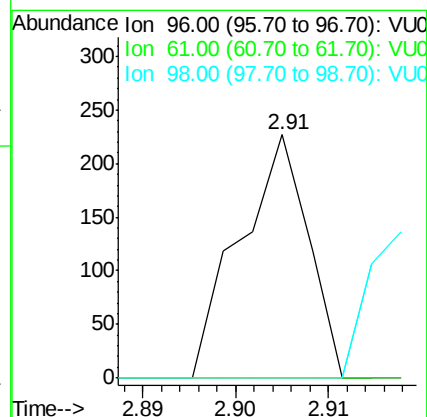
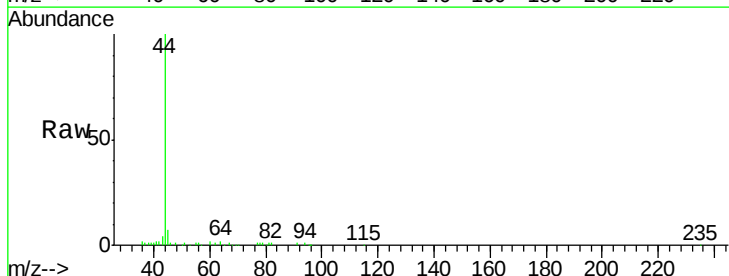
Instrument :  
MSVOA\_U  
ClientSampled :  
BEMG5

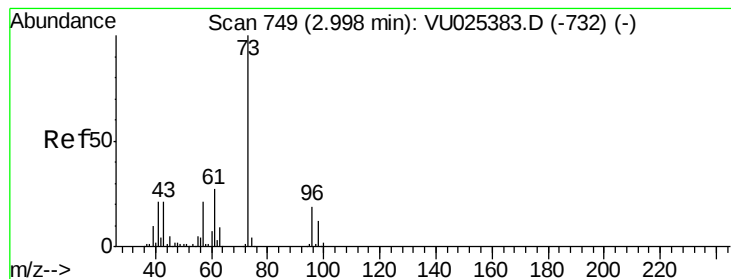
Tgt Ion: 84 Resp: 481  
Ion Ratio Lower Upper  
84 100  
86 87.4 44.9 83.5#  
49 72.3 85.6 159.0#



#17  
trans-1,2-Dichloroethene  
Concen: 415.886 ug/L  
RT: 2.91 min Scan# 720  
Delta R.T. -0.08 min  
Lab File: VU025390.D  
Acq: 13 Jul 2018 13:40

Tgt Ion: 96 Resp: 116  
Ion Ratio Lower Upper  
96 100  
61 0.0 102.7 190.7#  
98 0.0 44.4 82.5#





#18

Methyl tert-butyl Ether

Concen: 41.213 ug/L

RT: 2.82 min Scan# 695

Delta R.T. -0.17 min

Lab File: VU025390.D

Acq: 13 Jul 2018 13:40

Instrument :

MSVOA\_U

ClientSampleId :

BEMG5

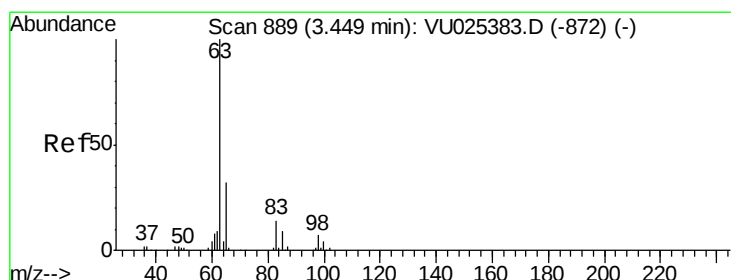
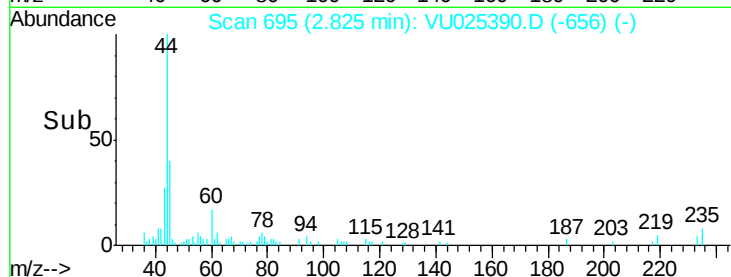
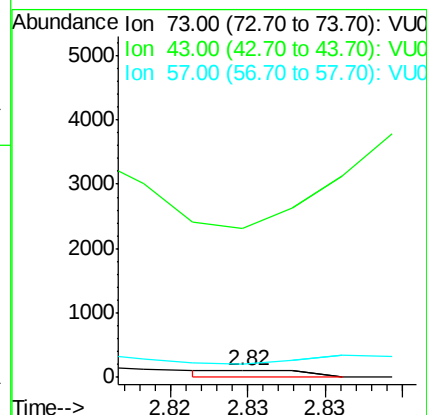
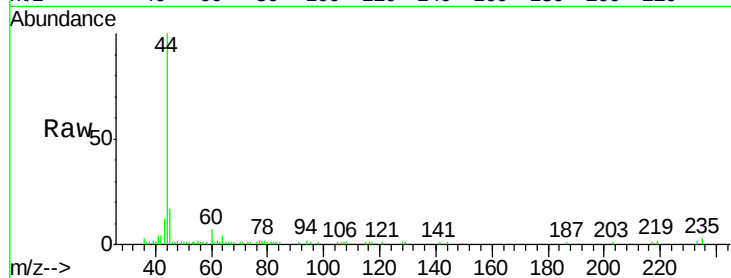
Tgt Ion: 73 Resp: 40

Ion Ratio Lower Upper

73 100

43 4725.0 17.2 25.8#

57 370.0 17.2 25.8#



#19

1,1-Dichloroethane

Concen: 116.782 ug/L

RT: 3.55 min Scan# 920

Delta R.T. 0.10 min

Lab File: VU025390.D

Acq: 13 Jul 2018 13:40

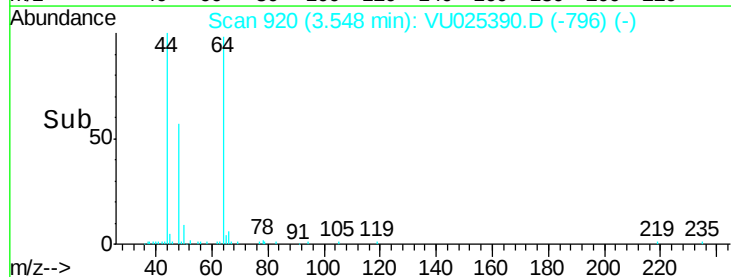
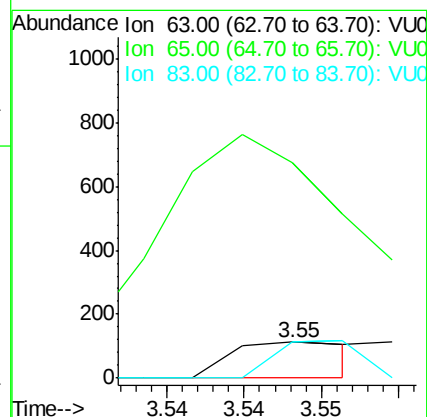
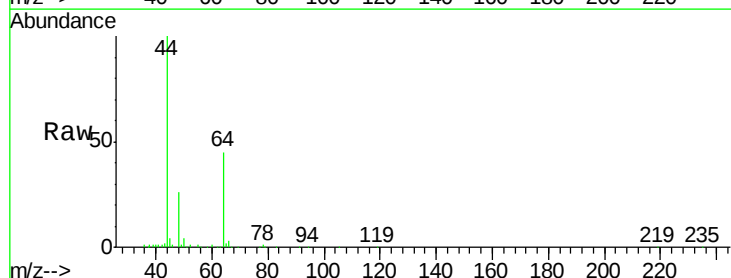
Tgt Ion: 63 Resp: 62

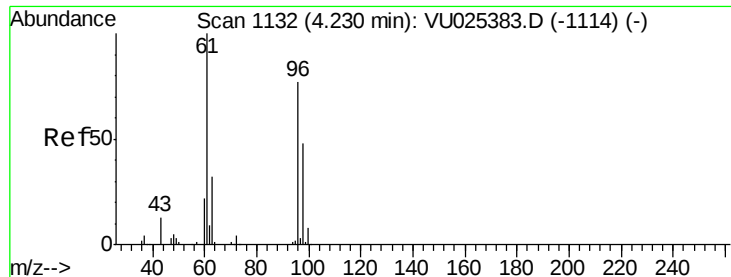
Ion Ratio Lower Upper

63 100

65 596.5 21.9 40.7#

83 100.9 9.7 18.1#





#20

cis-1,2-Dichloroethene

Concen: 720.196 ug/L

RT: 4.22 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VU025390.D

Acq: 13 Jul 2018 13:40

Instrument :

MSVOA\_U

ClientSampleId :

BEMG5

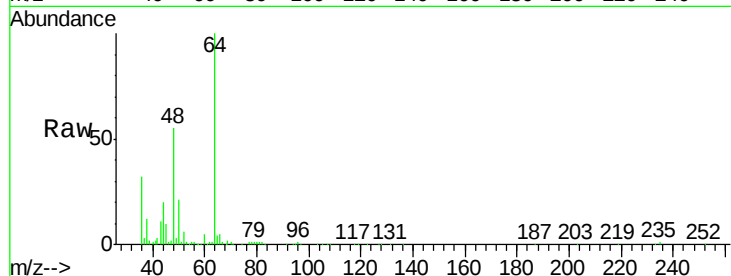
Tgt Ion: 96 Resp: 232

Ion Ratio Lower Upper

96 100

61 46.9 93.4 173.6#

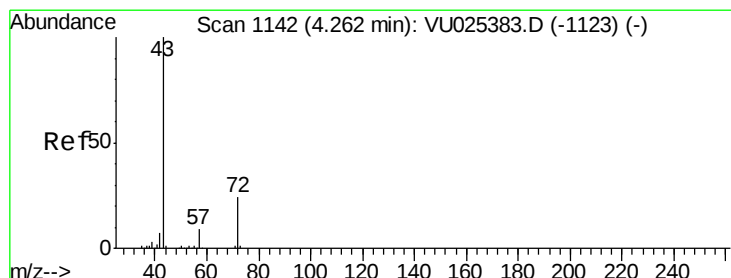
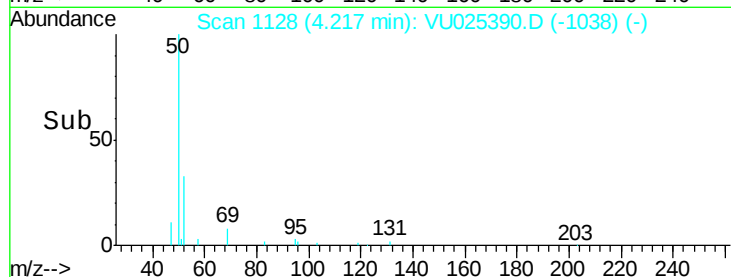
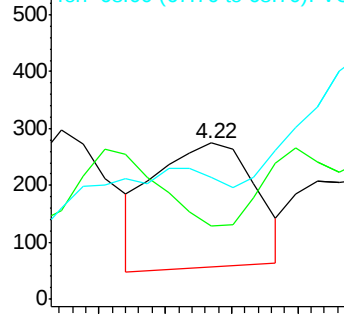
68 77.8 0.0 0.0#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0



#22

2-Butanone

Concen: 4161.879 ug/L

RT: 4.31 min Scan# 1156

Delta R.T. 0.05 min

Lab File: VU025390.D

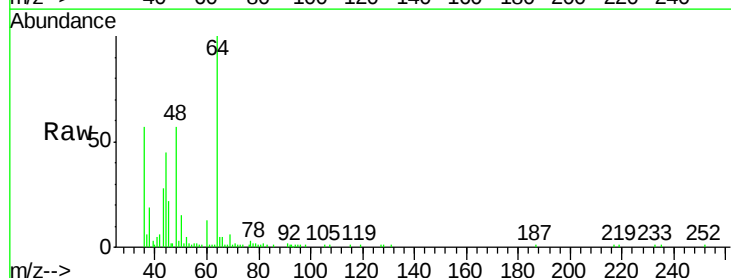
Acq: 13 Jul 2018 13:40

Tgt Ion: 43 Resp: 1062

Ion Ratio Lower Upper

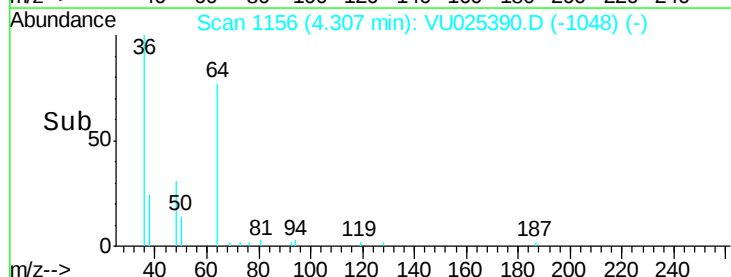
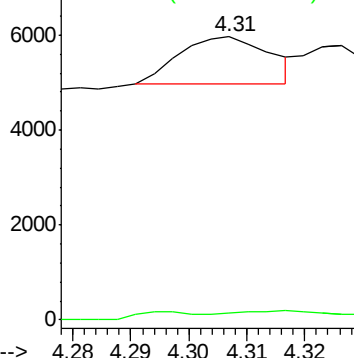
43 100

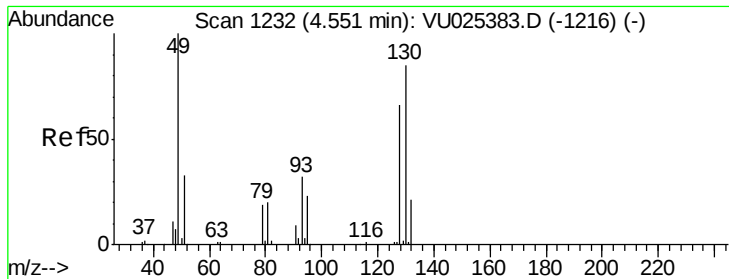
72 19.8 13.7 41.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

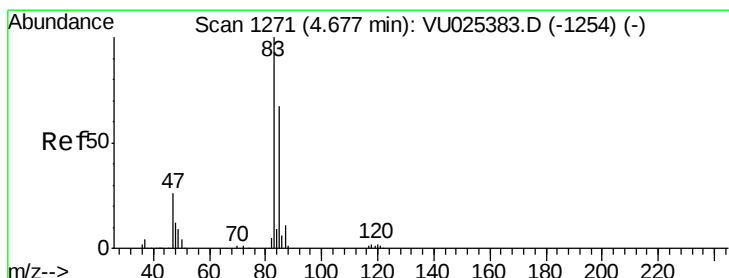
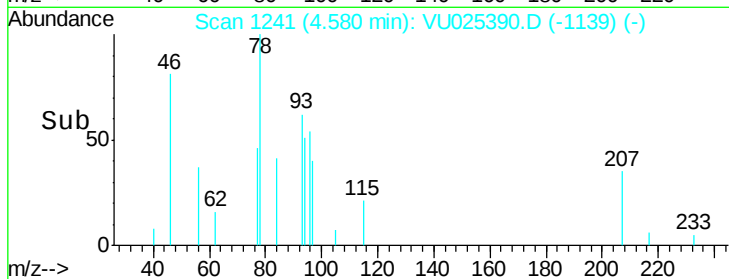
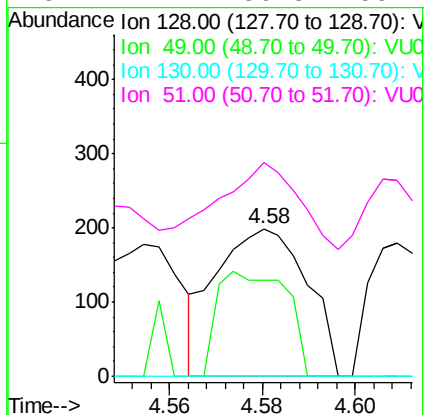
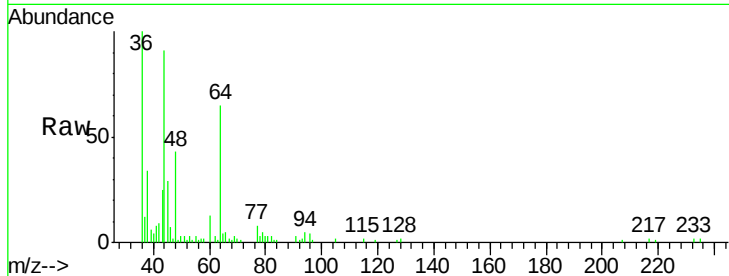




#23  
Bromochloromethane  
Concen: 1624.301 ug/L  
RT: 4.58 min Scan# 1241  
Delta R.T. 0.03 min  
Lab File: VU025390.D  
Acq: 13 Jul 2018 13:40

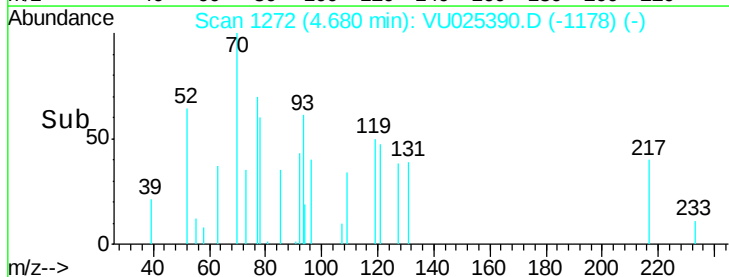
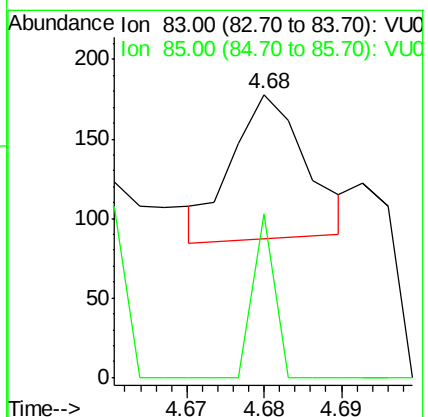
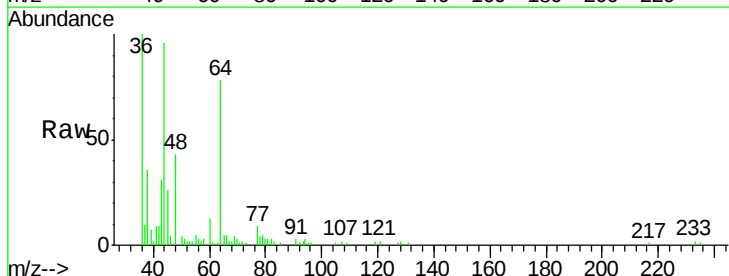
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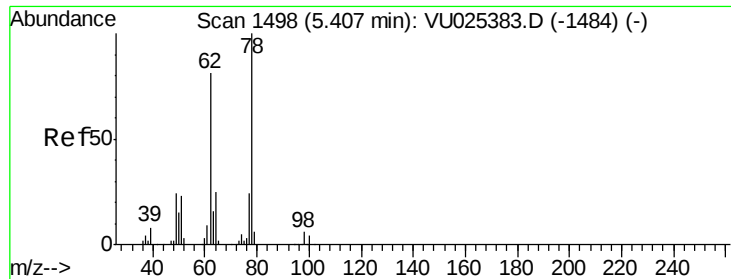
Tgt Ion:128 Resp: 269  
Ion Ratio Lower Upper  
128 100  
49 65.3 106.1 197.1#  
130 0.0 87.7 162.9#  
51 144.7 36.8 55.2#



#25  
Chloroform  
Concen: 107.613 ug/L  
RT: 4.68 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VU025390.D  
Acq: 13 Jul 2018 13:40

Tgt Ion: 83 Resp: 61  
Ion Ratio Lower Upper  
83 100  
85 57.9 44.7 83.1





#27  
 1,2-Dichloroethane  
 Concen: 183.133 ug/L  
 RT: 5.40 min Scan# 1495  
 Delta R.T. -0.01 min  
 Lab File: VU025390.D  
 Acq: 13 Jul 2018 13:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEMG5

Tgt Ion: 62 Resp: 87  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.4 9.6#

