

Data File : VU027859.D  
Acq On : 29 Oct 2018 16:27  
Operator : MD/SY  
Sample : J5716-06  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ETBW0

Quant Time: Oct 30 02:32:15 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102218WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Oct 30 02:27:31 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 104838   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 97762    | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 45107    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 31687    | 38.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.70% |
| 7) Chloroethane-d5             | 1.68    | 69    | 26378    | 42.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.00% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 46346    | 31.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.10% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 65363    | 94.03    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.03% |
| 24) Chloroform-d               | 4.65    | 84    | 63017    | 42.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.94% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 46294    | 45.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.18% |
| 32) Benzene-d6                 | 5.34    | 84    | 124677   | 44.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.56% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 44451    | 44.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.44% |
| 41) Toluene-d8                 | 7.57    | 98    | 113948   | 44.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.74% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 20418    | 42.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.60% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 47234    | 92.86    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.86% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 58178    | 45.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.66% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 42755    | 46.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.56% |

#### Target Compounds

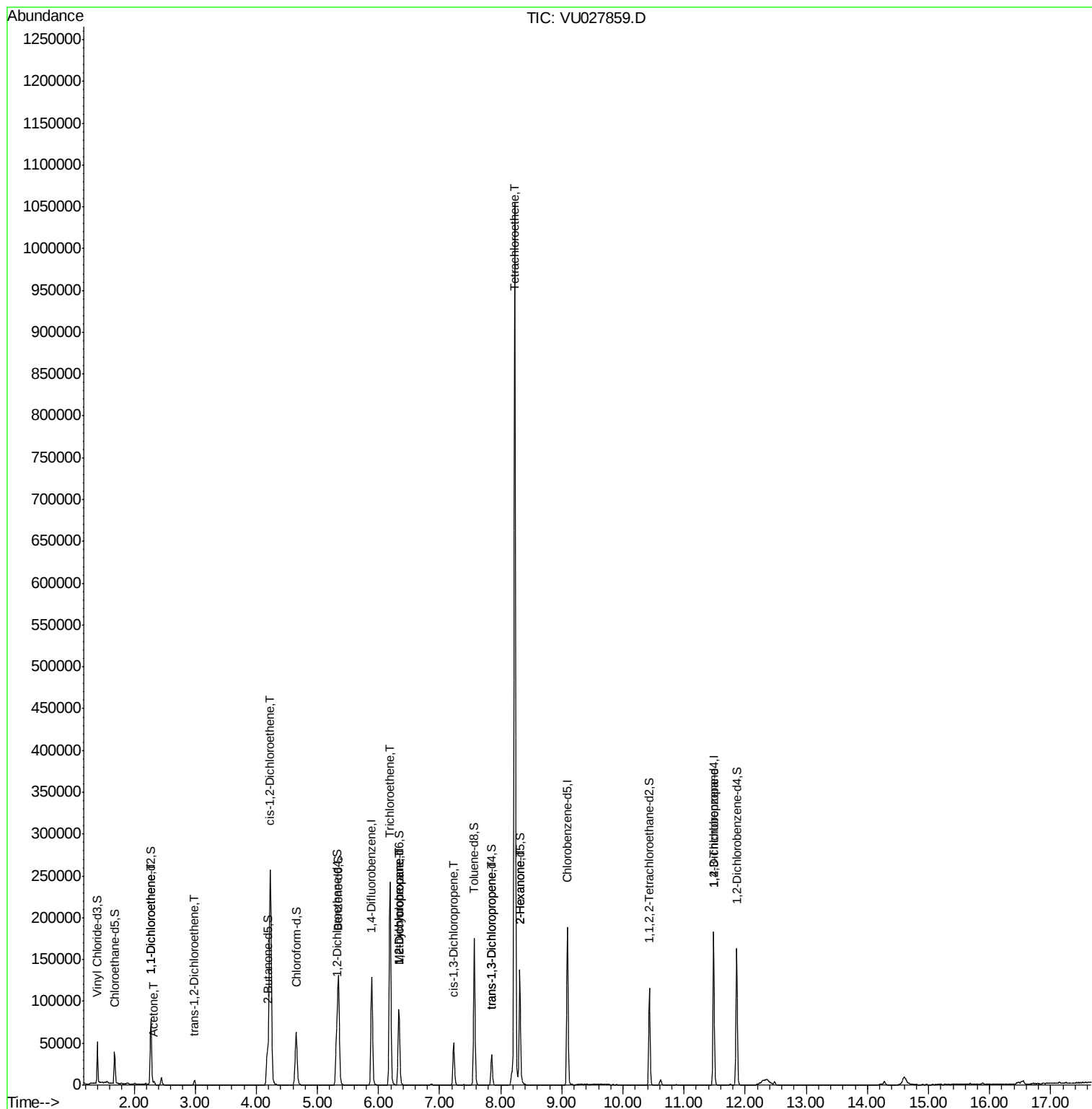
|                               |       |     |        |         | Qvalue |    |
|-------------------------------|-------|-----|--------|---------|--------|----|
| 12) 1,1-Dichloroethene        | 2.28  | 96  | 702    | 1.202   | ug/L # | 1  |
| 13) Acetone                   | 2.32  | 43  | 3781   | 7.809   | ug/L   | 93 |
| 17) trans-1,2-Dichloroethene  | 2.99  | 96  | 1997   | 3.090   | ug/L   | 94 |
| 20) cis-1,2-Dichloroethene    | 4.23  | 96  | 135248 | 176.916 | ug/L   | 99 |
| 34) Trichloroethene           | 6.19  | 95  | 87413  | 120.059 | ug/L   | 98 |
| 35) Methylcyclohexane         | 6.33  | 83  | 9490   | 7.537   | ug/L # | 14 |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 4979   | 5.794   | ug/L # | 90 |
| 39) cis-1,3-Dichloropropene   | 7.23  | 75  | 1174   | 0.887   | ug/L # | 64 |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 734    | 0.586   | ug/L   | 84 |
| 46) Tetrachloroethene         | 8.23  | 164 | 228730 | 406.794 | ug/L   | 95 |
| 48) 2-Hexanone                | 8.31  | 43  | 5590   | 5.219   | ug/L # | 67 |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 5583   | 5.498   | ug/L   | 95 |

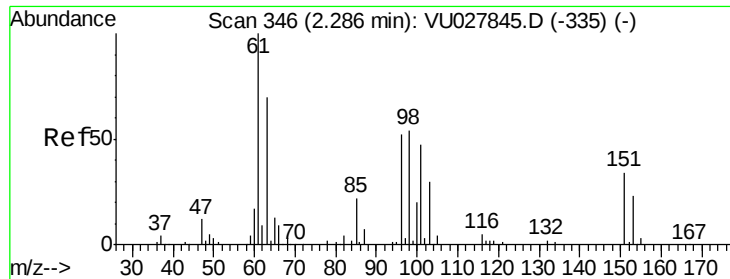
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102218WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Oct 30 02:27:31 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 1.202 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

Instrument :

MSVOA\_U

ClientSampleId :

ETBW0

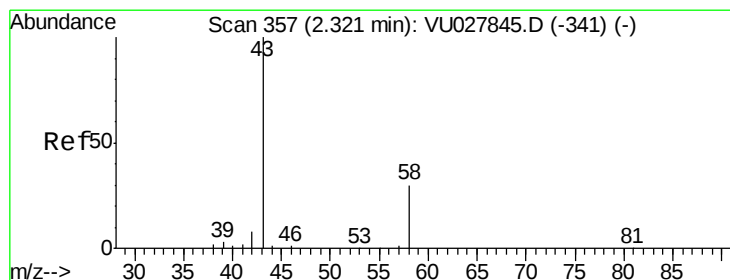
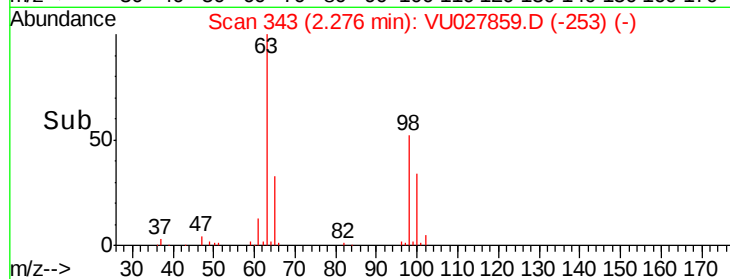
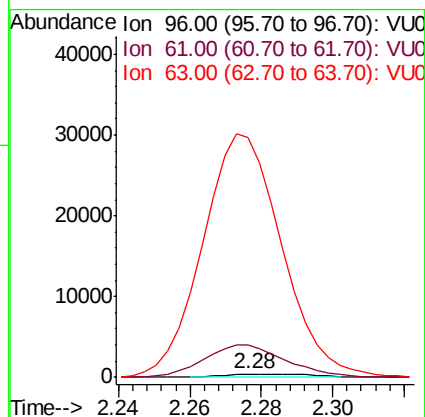
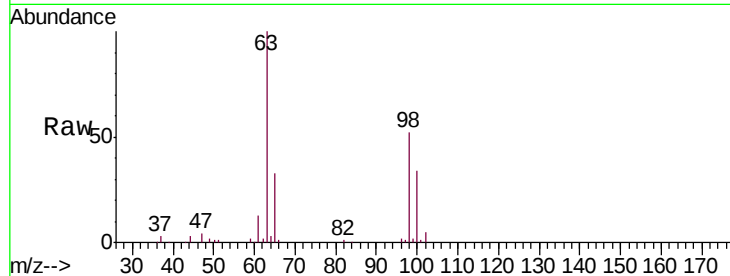
Tgt Ion: 96 Resp: 702

Ion Ratio Lower Upper

96 100

61 885.4 137.3 255.1#

63 6663.7 109.8 204.0#



#13

Acetone

Concen: 7.809 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027859.D

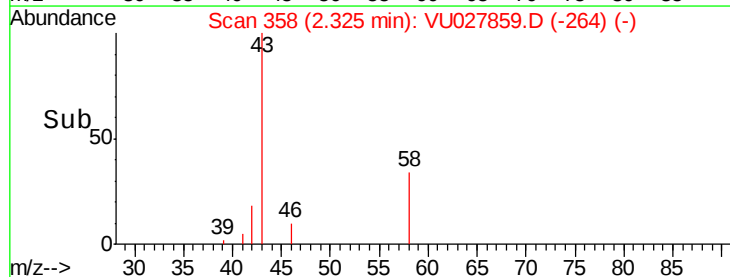
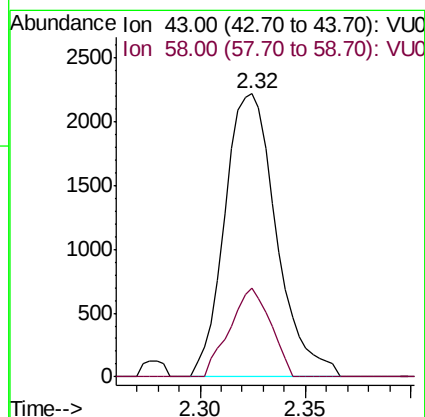
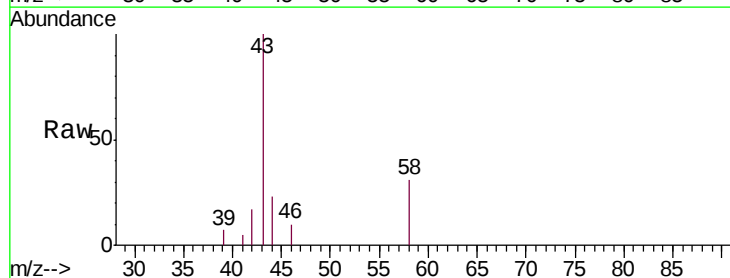
Acq: 29 Oct 2018 16:27

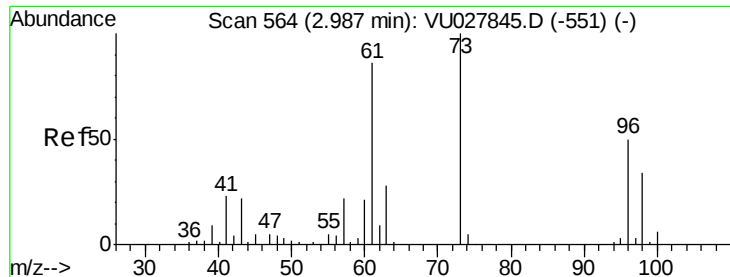
Tgt Ion: 43 Resp: 3781

Ion Ratio Lower Upper

43 100

58 24.8 0.0 57.4





#17

trans-1,2-Dichloroethene

Concen: 3.090 ug/L

RT: 2.99 min Scan# 565

Delta R.T. 0.00 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

Instrument :

MSVOA\_U

ClientSampleId :

ETBW0

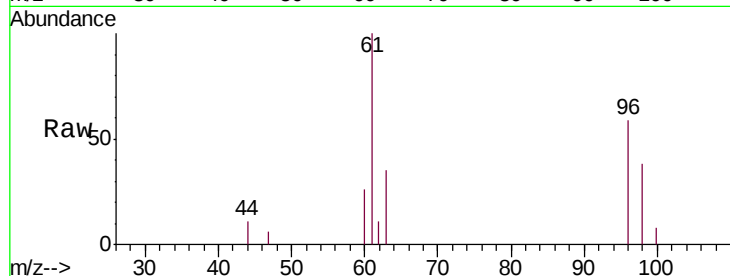
Tgt Ion: 96 Resp: 1997

Ion Ratio Lower Upper

96 100

61 170.9 114.7 212.9

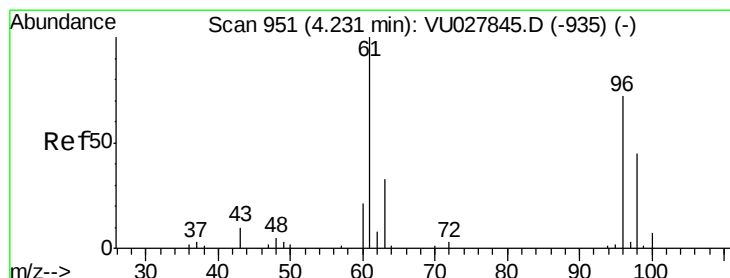
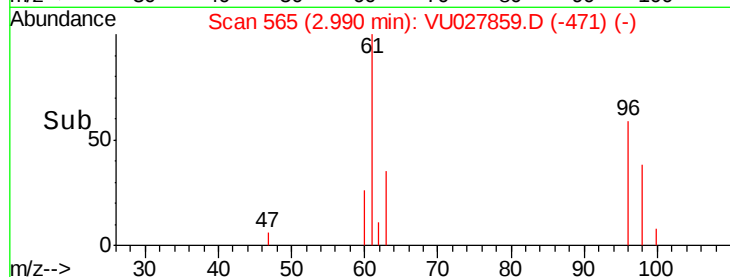
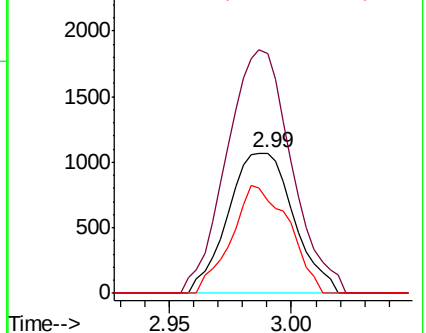
98 65.7 42.2 78.4



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 176.916 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

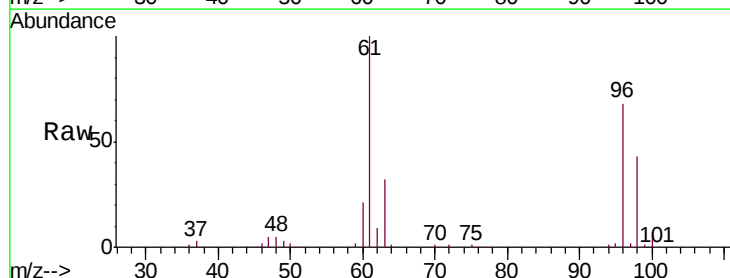
Tgt Ion: 96 Resp: 135248

Ion Ratio Lower Upper

96 100

61 147.3 104.2 193.4

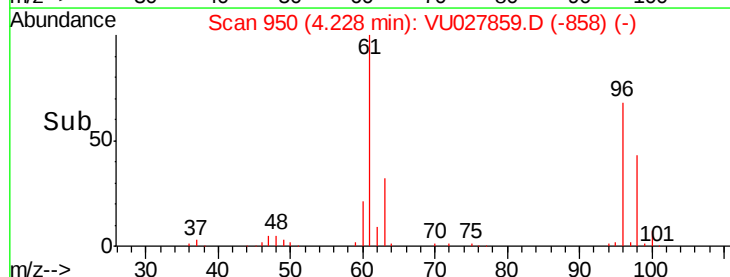
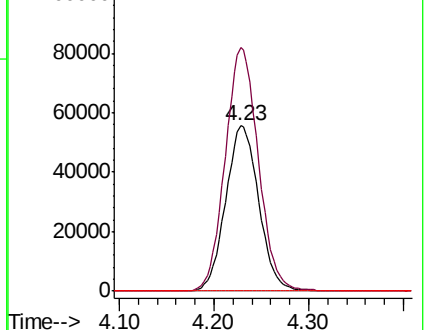
68 0.0 0.0 0.0

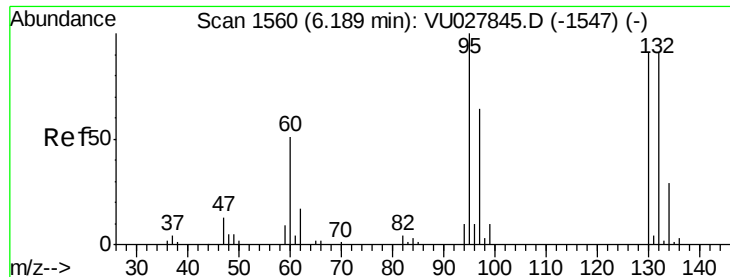


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#34

Trichloroethene

Concen: 120.059 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

Instrument :

MSVOA\_U

ClientSampleId :

ETBW0

Tgt Ion: 95 Resp: 87413

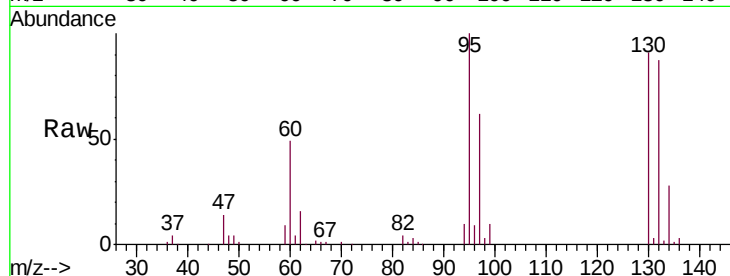
Ion Ratio Lower Upper

95 100

97 62.0 45.8 85.2

132 87.4 62.1 115.3

130 91.0 65.0 120.6

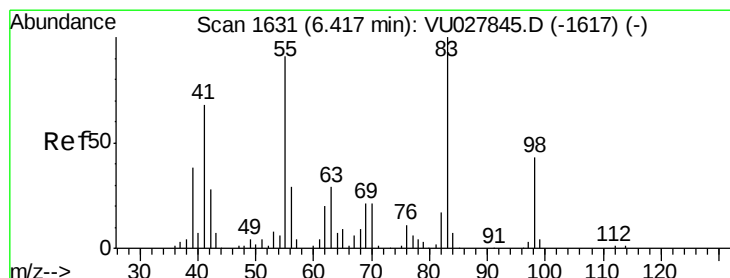
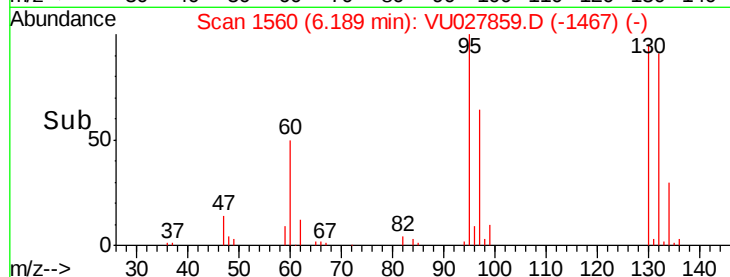
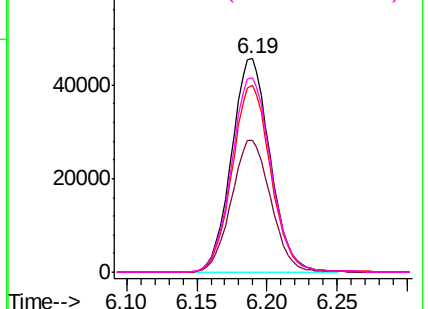


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 7.537 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

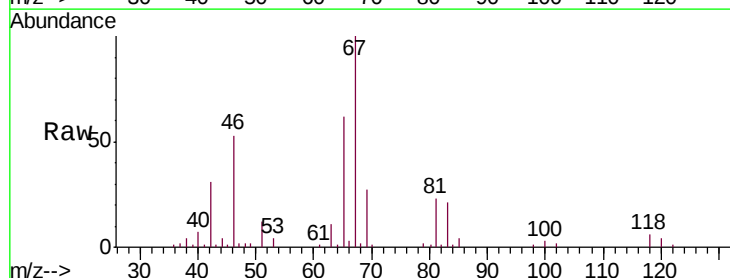
Tgt Ion: 83 Resp: 9490

Ion Ratio Lower Upper

83 100

55 0.0 71.9 107.9#

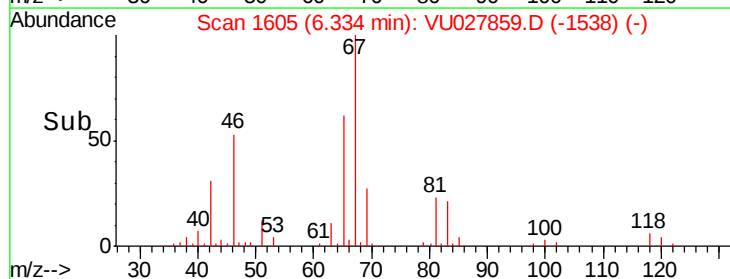
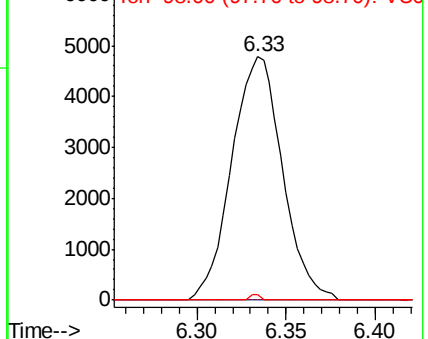
98 0.5 34.6 52.0#

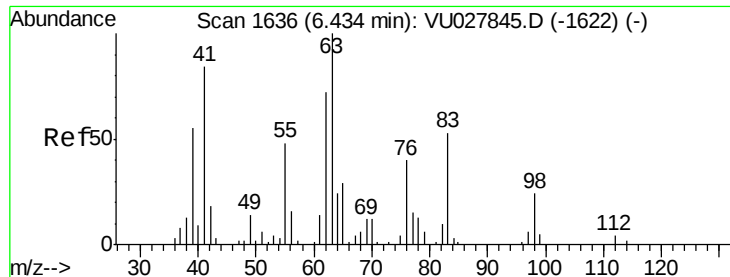


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

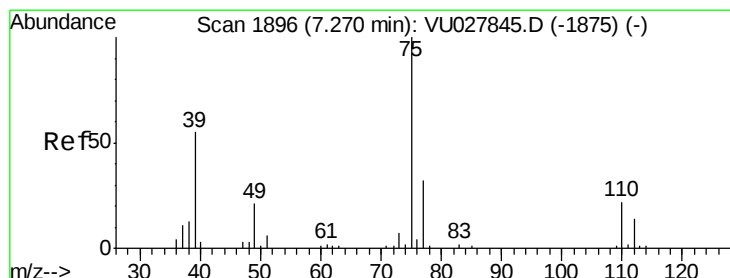
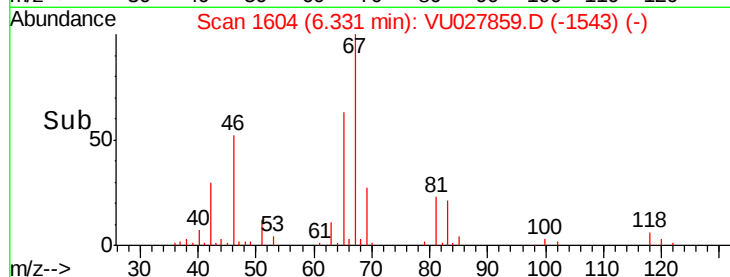
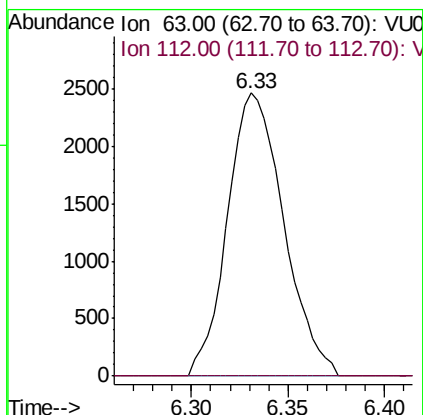
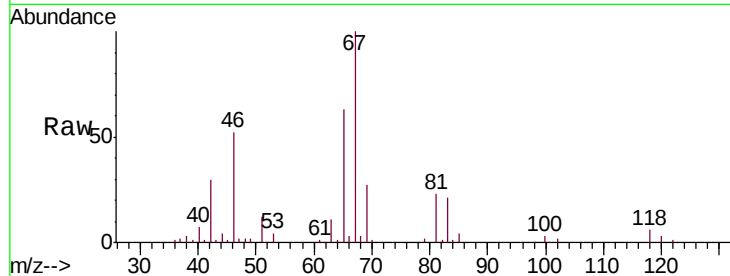




#37  
 1,2-Dichloropropane  
 Concen: 5.794 ug/L  
 RT: 6.33 min Scan# 1604  
 Delta R.T. -0.10 min  
 Lab File: VU027859.D  
 Acq: 29 Oct 2018 16:27

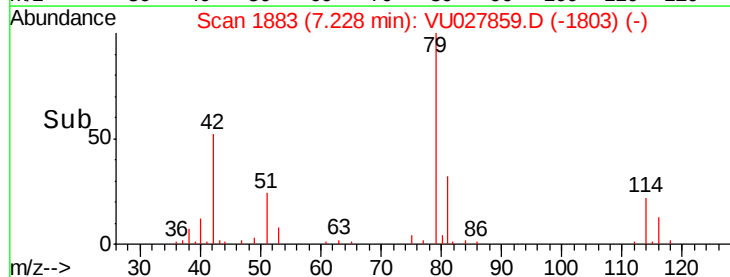
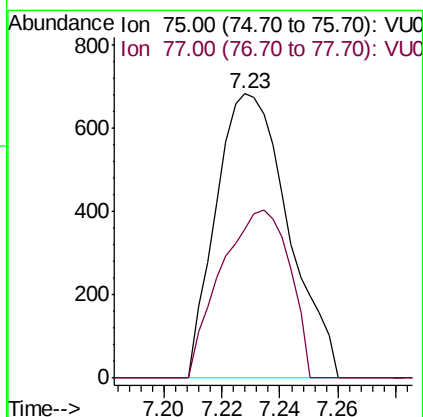
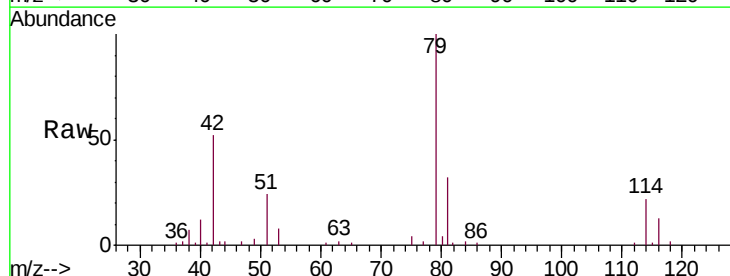
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 ETBW0

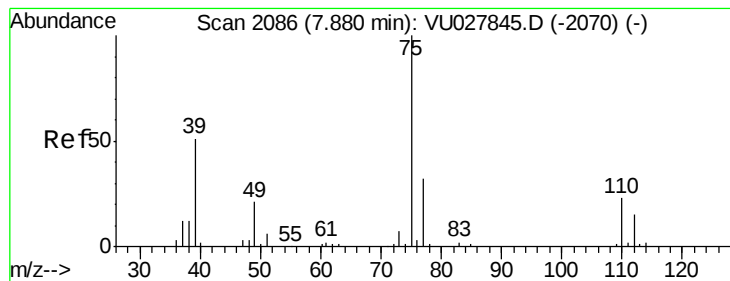
Tgt Ion: 63 Resp: 4979  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.6 3.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.887 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU027859.D  
 Acq: 29 Oct 2018 16:27

Tgt Ion: 75 Resp: 1174  
 Ion Ratio Lower Upper  
 75 100  
 77 52.0 22.5 41.7#





#44

trans-1,3-Dichloropropene

Concen: 0.586 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

Instrument :

MSVOA\_U

ClientSampleId :

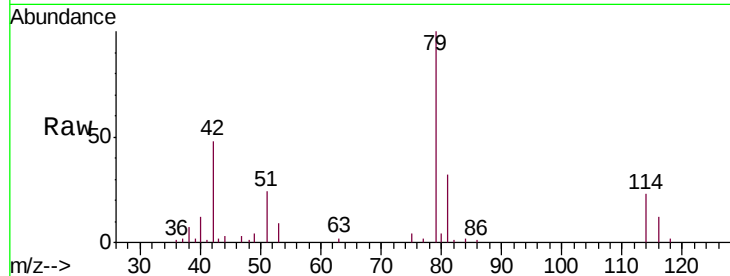
ETBW0

Tgt Ion: 75 Resp: 734

Ion Ratio Lower Upper

75 100

77 41.8 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU027845.D (-2070) (-)

Ion 77.00 (76.70 to 77.70): VU027845.D (-2070) (-)

7.85

600

500

400

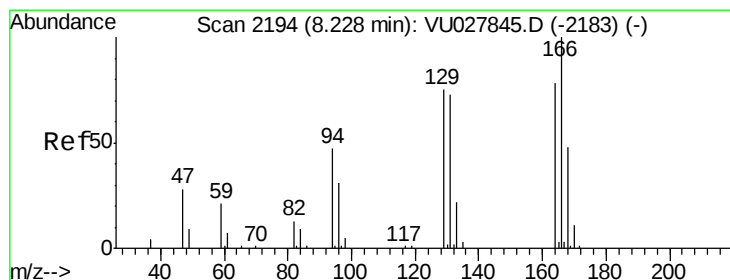
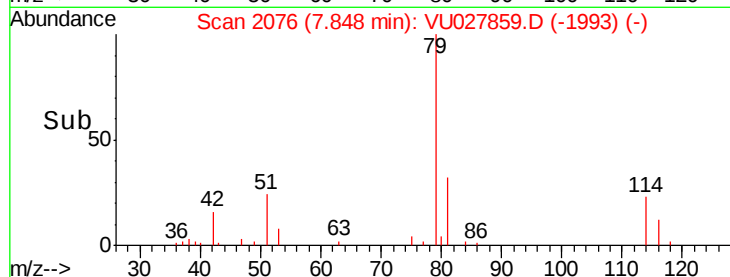
300

200

100

0

Time-->



#46

Tetrachloroethene

Concen: 406.794 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027859.D

Acq: 29 Oct 2018 16:27

Tgt Ion: 164 Resp: 228730

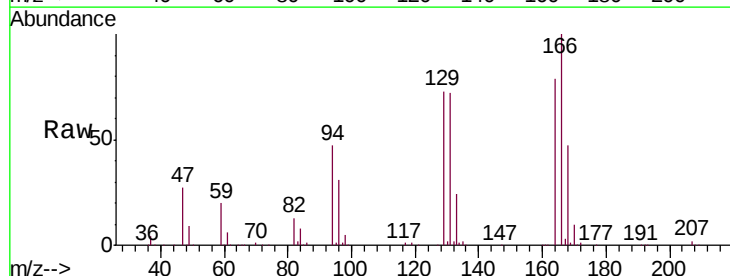
Ion Ratio Lower Upper

164 100

129 93.1 68.5 127.3

131 91.2 67.1 124.5

166 126.9 92.2 171.2



Abundance Ion 164.00 (163.70 to 164.70): VU027845.D (-2183) (-)

Ion 129.00 (128.70 to 129.70): VU027845.D (-2183) (-)

Ion 131.00 (130.70 to 131.70): VU027845.D (-2183) (-)

Ion 166.00 (165.70 to 166.70): VU027845.D (-2183) (-)

250000

200000

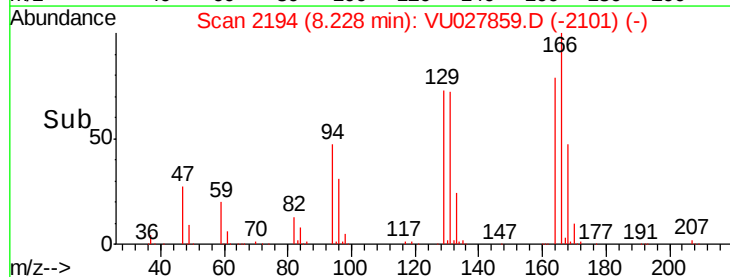
150000

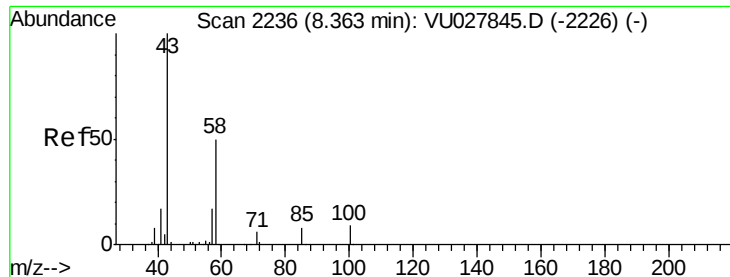
100000

50000

0

Time-->

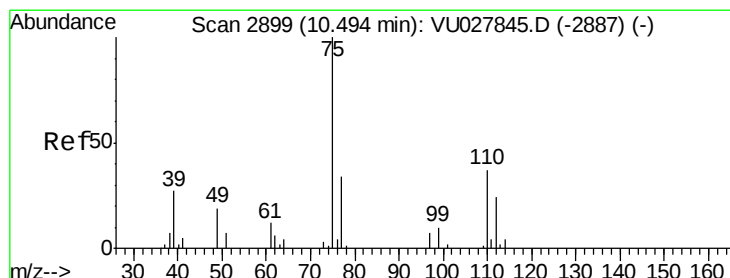
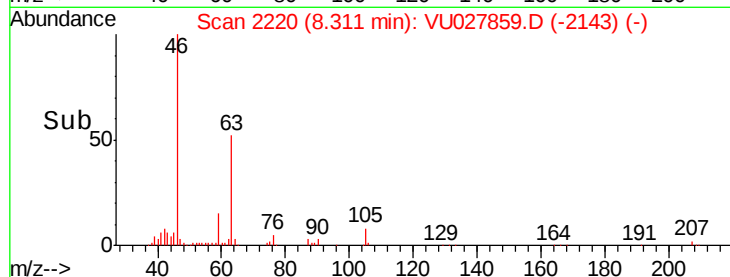
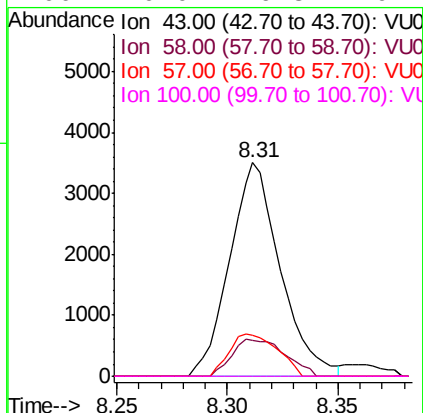
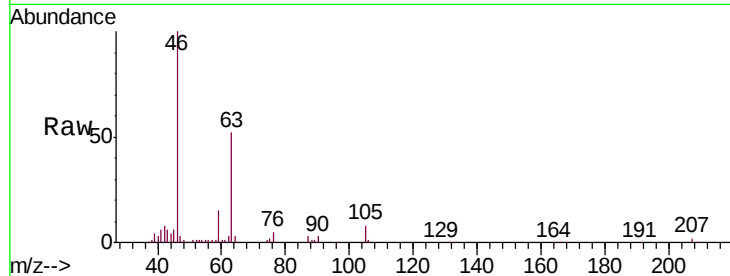




#48  
 2-Hexanone  
 Concen: 5.219 ug/L  
 RT: 8.31 min Scan# 2220  
 Delta R.T. -0.05 min  
 Lab File: VU027859.D  
 Acq: 29 Oct 2018 16:27

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 ETBW0

Tgt Ion: 43 Resp: 5590  
 Ion Ratio Lower Upper  
 43 100  
 58 18.2 38.8 58.2#  
 57 18.8 13.1 19.7  
 100 0.0 6.8 10.2#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.498 ug/L  
 RT: 11.48 min Scan# 3207  
 Delta R.T. 0.99 min  
 Lab File: VU027859.D  
 Acq: 29 Oct 2018 16:27

Tgt Ion: 75 Resp: 5583  
 Ion Ratio Lower Upper  
 75 100  
 77 35.7 26.5 39.7

