

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\U112018\  
 Data File : VU028296.D  
 Acq On : 20 Nov 2018 22:31  
 Operator : MD/SY  
 Sample : J5986-19  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FP2

Quant Time: Nov 21 08:02:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 21 07:07:52 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 136088   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 131928   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 57071    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 36472    | 3.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.20%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 35691    | 4.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 53934    | 2.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 53.00%# |
| 20) 2-Butanone-d5              | 4.20   | 46    | 188874   | 55.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.22% |
| 24) Chloroform-d               | 4.65   | 84    | 80700    | 4.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 46890    | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.80%  |
| 32) Benzene-d6                 | 5.34   | 84    | 148188   | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 60395    | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 87.60%  |
| 41) Toluene-d8                 | 7.57   | 98    | 118954   | 3.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 70.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 16700    | 3.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.80%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 129943   | 49.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.38%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 48724    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 48255    | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.00%  |

## Target Compounds

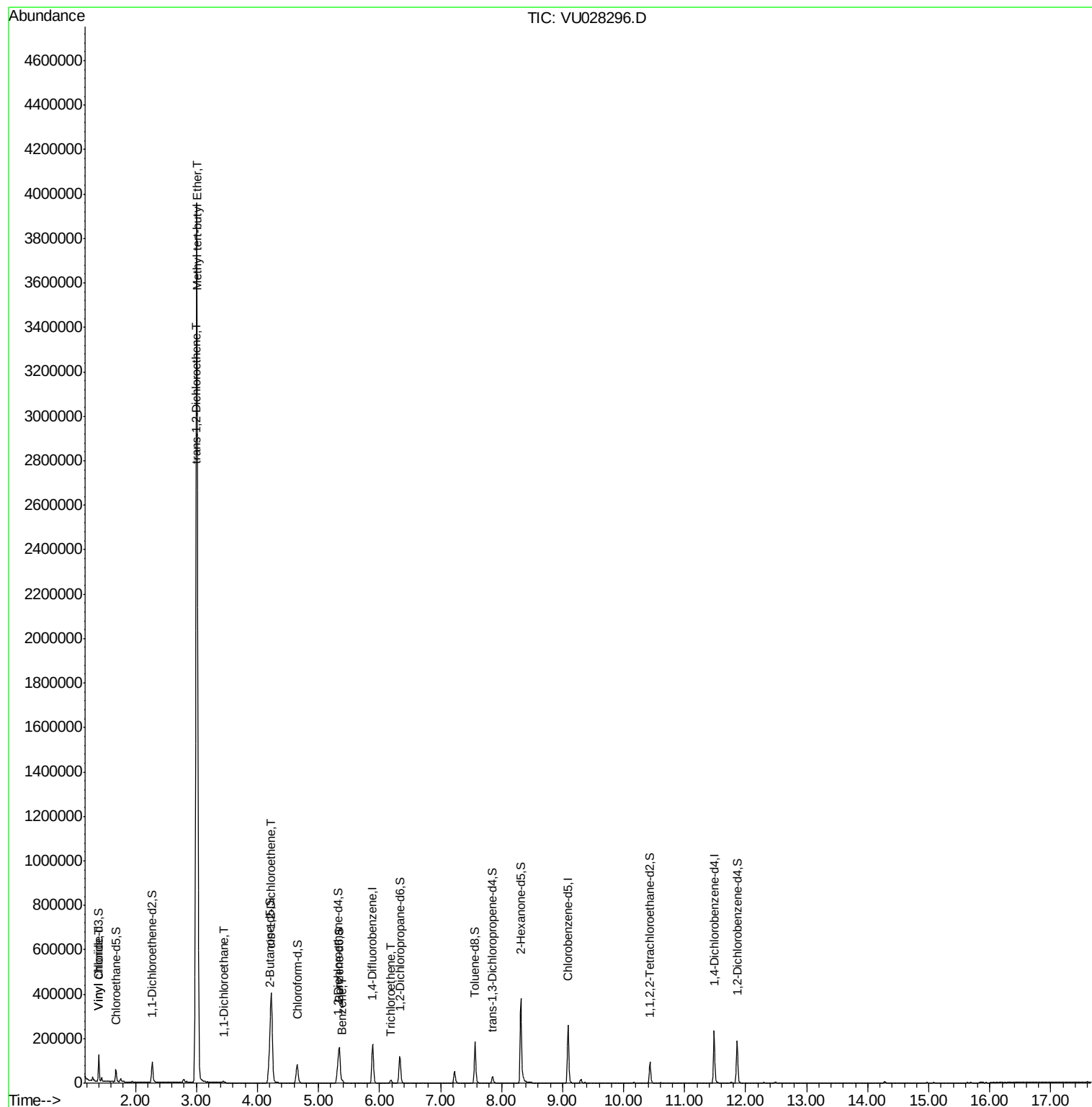
|                              |      |    |         |        |      | Qvalue |
|------------------------------|------|----|---------|--------|------|--------|
| 5) Vinyl chloride            | 1.40 | 62 | 20729   | 1.50   | ug/L | 94     |
| 17) Methyl tert-butyl Ether  | 3.01 | 73 | 3913059 | 155.48 | ug/L | 98     |
| 18) trans-1,2-Dichloroethene | 2.98 | 96 | 6837    | 0.77   | ug/L | 87     |
| 19) 1,1-Dichloroethane       | 3.44 | 63 | 6330    | 0.31   | ug/L | 96     |
| 22) cis-1,2-Dichloroethene   | 4.23 | 96 | 199564  | 18.92  | ug/L | 92     |
| 33) Benzene                  | 5.39 | 78 | 9255    | 0.21   | ug/L | 100    |
| 34) Trichloroethene          | 6.19 | 95 | 4254    | 0.40   | ug/L | 86     |

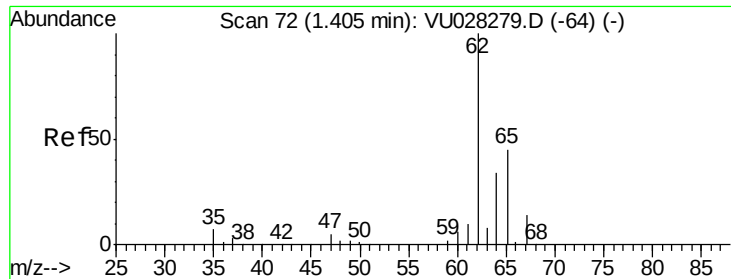
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.50 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

Instrument :

MSVOA\_U

ClientSampled :

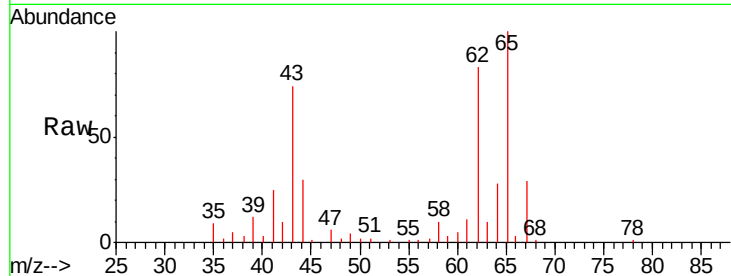
H0FP2

Tgt Ion: 62 Resp: 20729

Ion Ratio Lower Upper

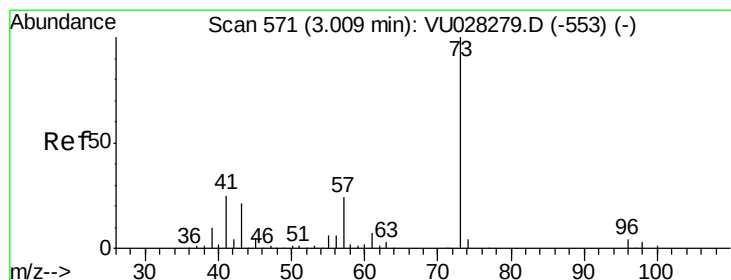
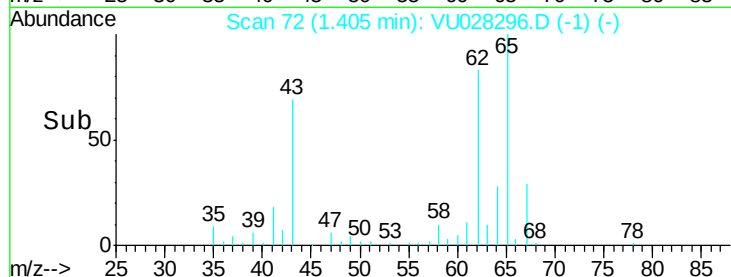
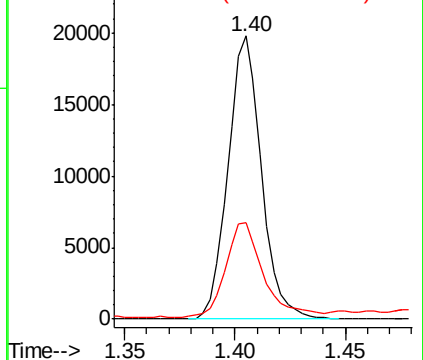
62 100

64 34.1 21.7 40.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#17

Methyl tert-butyl Ether

Concen: 155.48 ug/L

RT: 3.01 min Scan# 570

Delta R.T. -0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

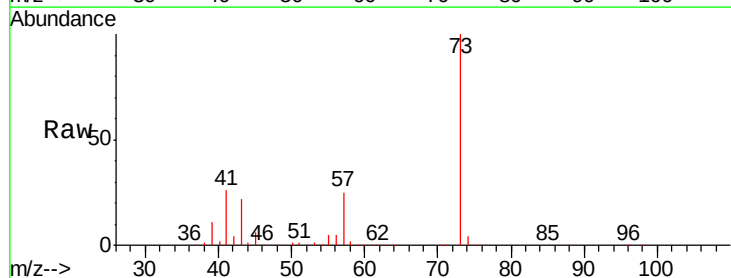
Tgt Ion: 73 Resp: 3913059

Ion Ratio Lower Upper

73 100

43 22.0 18.8 28.2

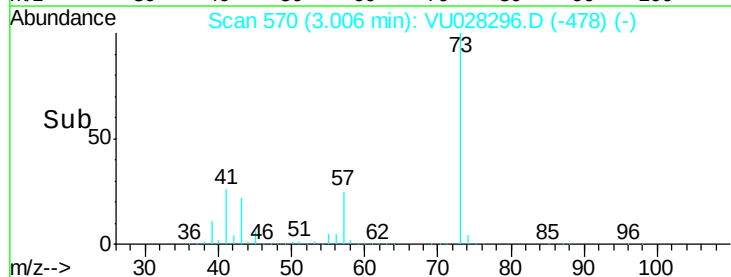
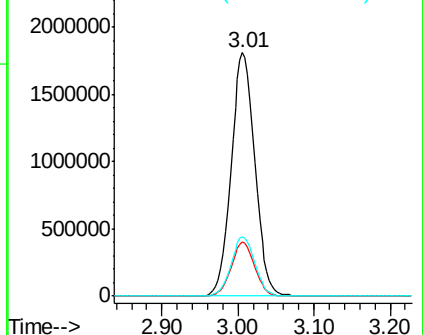
57 24.6 19.2 28.8

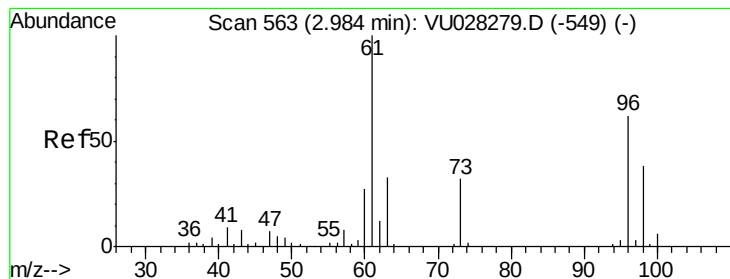


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.77 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

Instrument :

MSVOA\_U

ClientSampled :

H0FP2

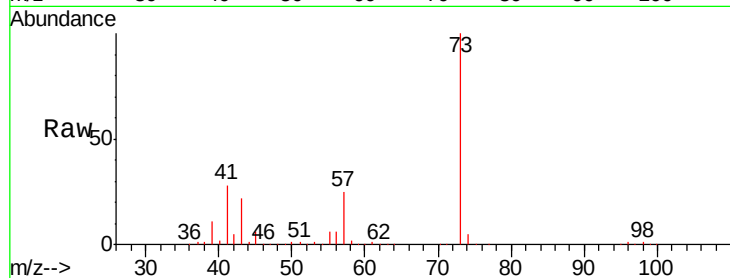
Tgt Ion: 96 Resp: 6837

Ion Ratio Lower Upper

96 100

61 152.8 122.2 227.0

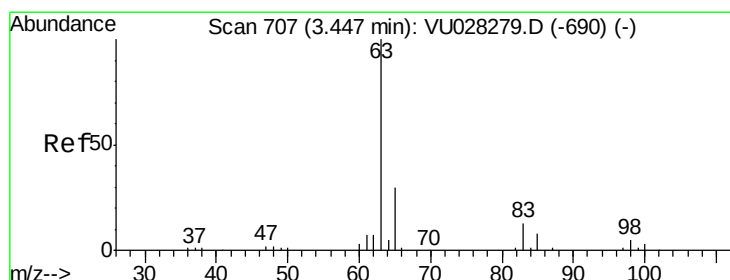
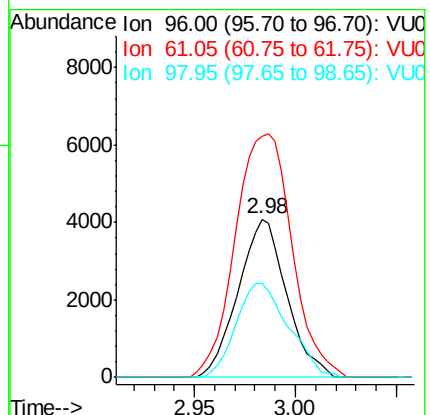
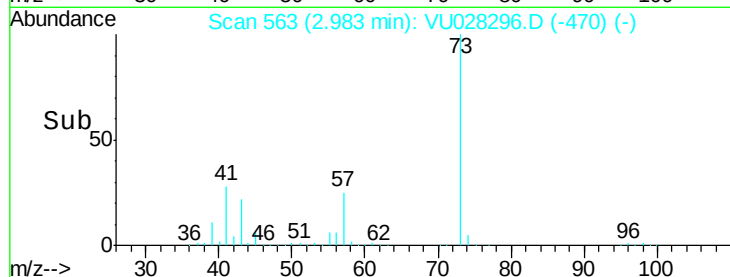
98 59.1 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.31 ug/L

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

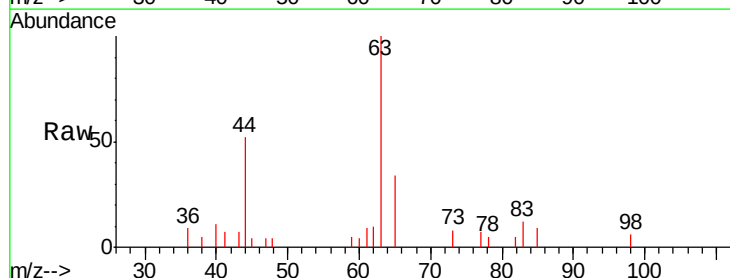
Tgt Ion: 63 Resp: 6330

Ion Ratio Lower Upper

63 100

65 33.5 21.2 39.4

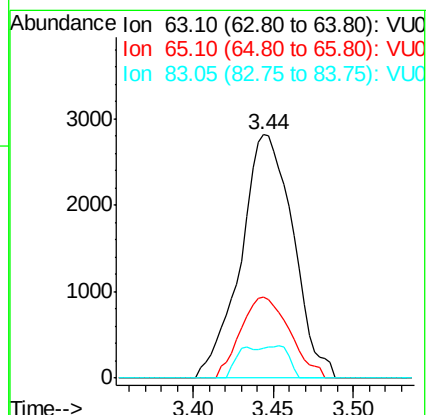
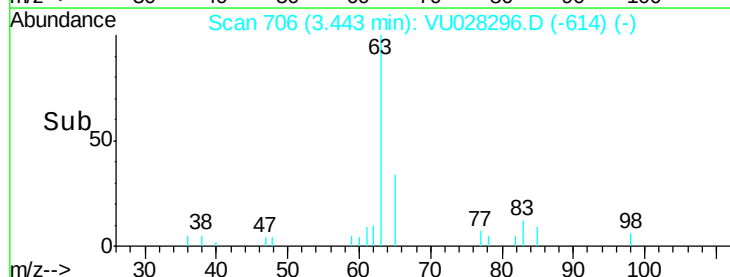
83 12.3 8.8 16.4

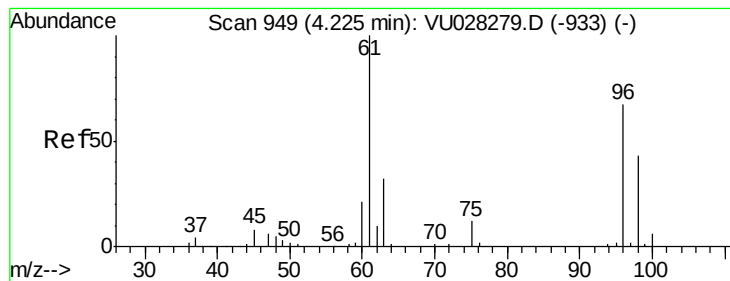


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 18.92 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

Instrument :  
MSVOA\_U  
ClientSampled :  
H0FP2

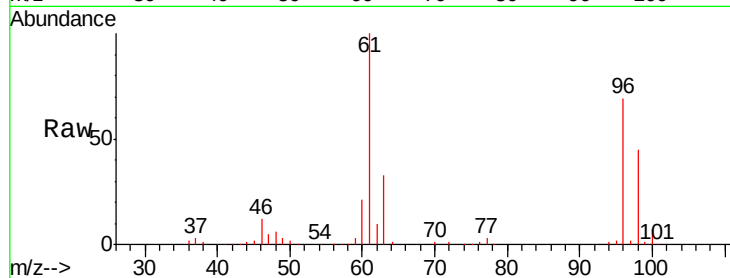
Tgt Ion: 96 Resp: 199564

Ion Ratio Lower Upper

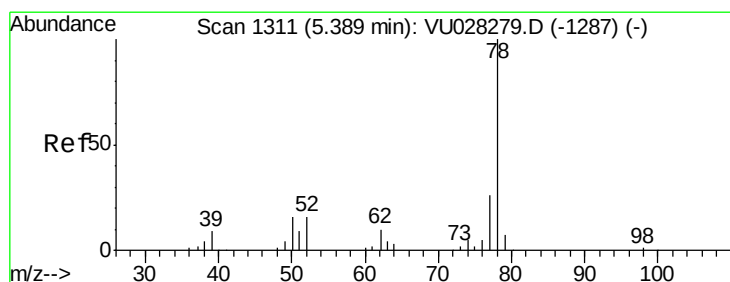
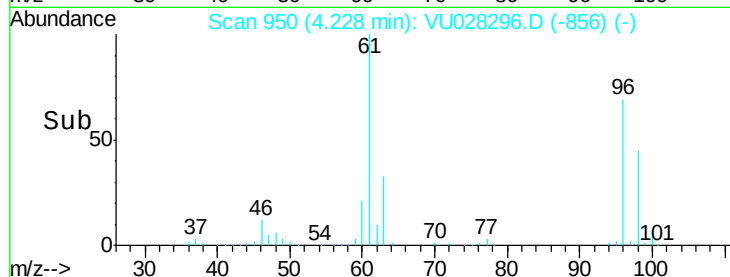
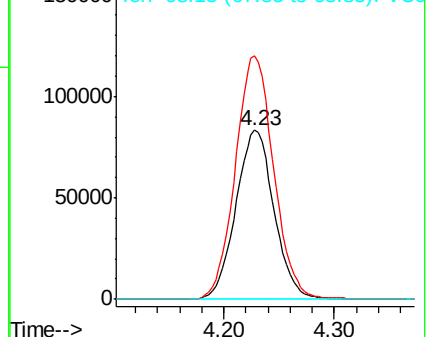
96 100

61 144.1 108.0 200.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 68.15 (67.85 to 68.85): VU0



#33

Benzene

Concen: 0.21 ug/L

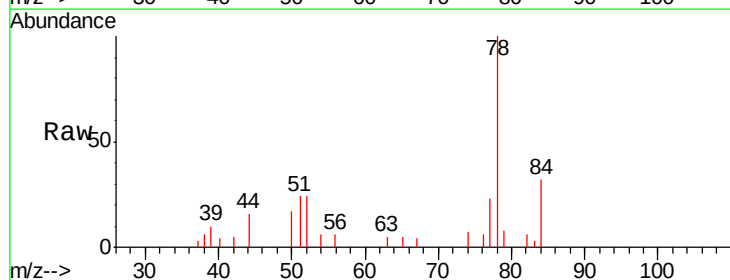
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

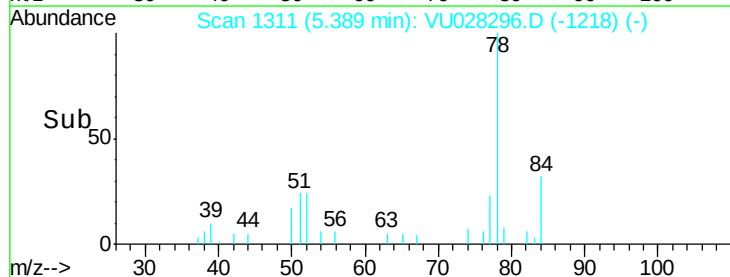
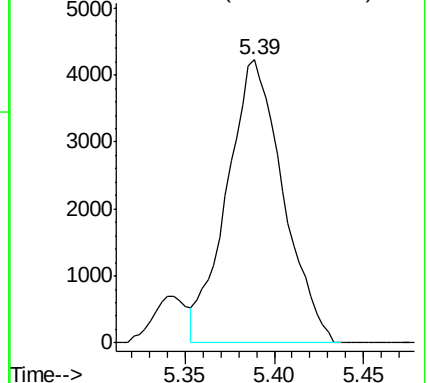
Lab File: VU028296.D

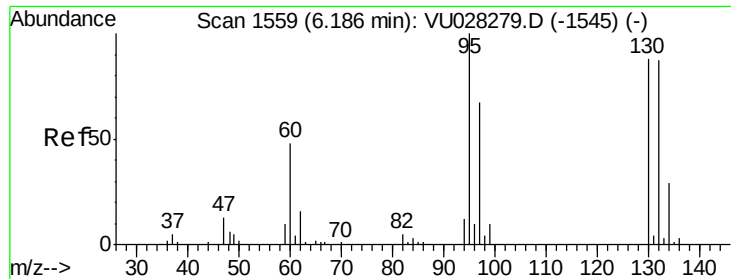
Acq: 20 Nov 2018 22:31

Tgt Ion: 78 Resp: 9255



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.40 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028296.D

Acq: 20 Nov 2018 22:31

Instrument :

MSVOA\_U

ClientSampleId :

H0FP2

Tgt Ion: 95 Resp: 4254

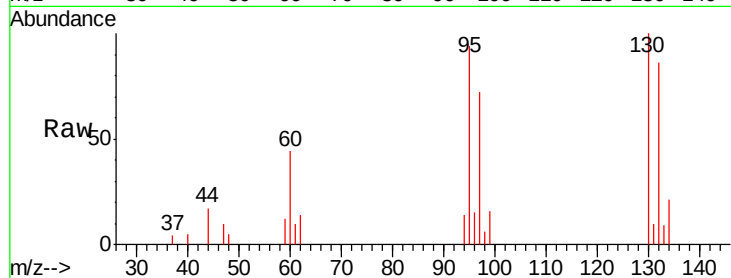
Ion Ratio Lower Upper

95 100

97 76.6 46.5 86.3

132 91.9 58.9 109.3

130 106.9 61.3 113.9



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

