

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU080418\  
 Data File : VU025838.D  
 Acq On : 03 Aug 2018 23:04  
 Operator : MD/SY  
 Sample : J4340-13  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F78

Quant Time: Aug 17 13:30:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 03 23:51:54 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 303986   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 287708   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 128950   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 74977    | 43.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.40%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 64801    | 45.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 120756   | 33.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.84%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 145651   | 108.71   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 108.71% |
| 24) Chloroform-d               | 4.65    | 84    | 179358   | 46.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 127776   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.96%  |
| 32) Benzene-d6                 | 5.35    | 84    | 348667   | 47.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.50%  |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 113064   | 47.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.10%  |
| 41) Toluene-d8                 | 7.57    | 98    | 318812   | 45.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.10%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 54793    | 45.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.24%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 104099   | 104.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.57% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 156251   | 46.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 123229   | 47.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.30%  |

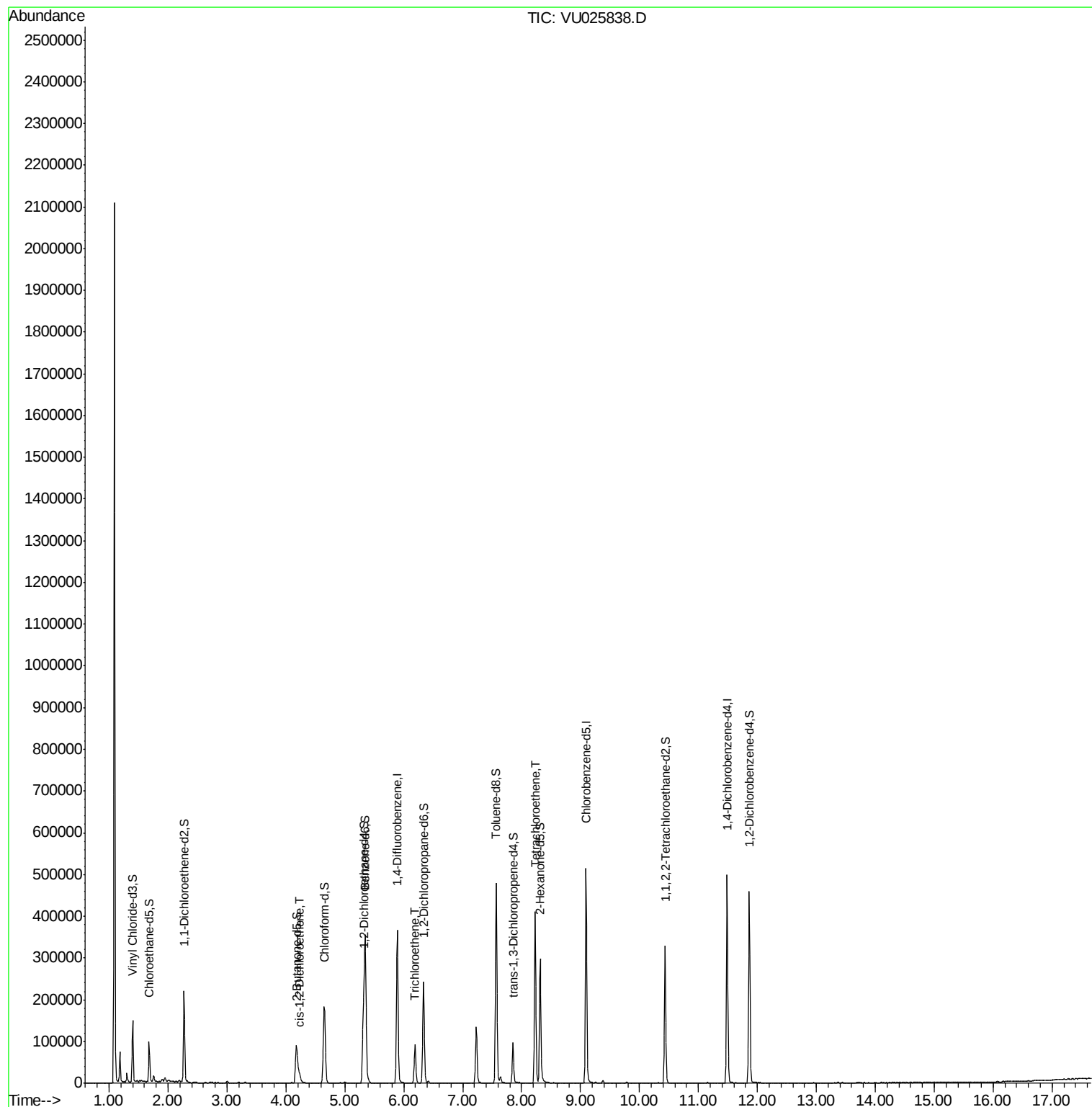
| Target Compounds           |      |     |       |       |      | Ovalue |
|----------------------------|------|-----|-------|-------|------|--------|
| 20) cis-1,2-Dichloroethene | 4.23 | 96  | 10887 | 4.88  | ug/L | 91     |
| 34) Trichloroethene        | 6.19 | 95  | 32124 | 14.65 | ug/L | 95     |
| 46) Tetrachloroethene      | 8.23 | 164 | 91879 | 48.32 | ug/L | 98     |

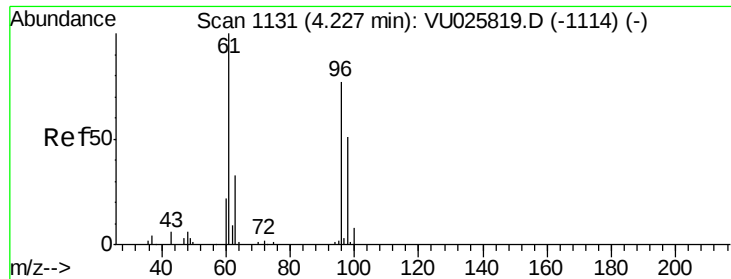
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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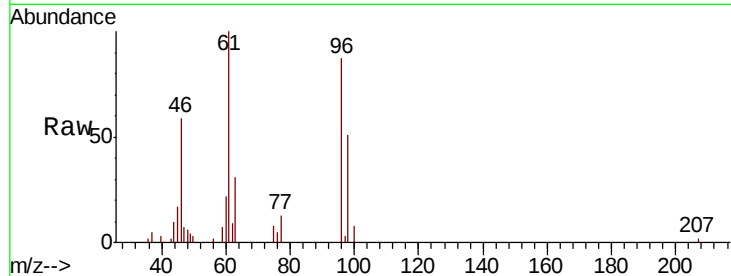




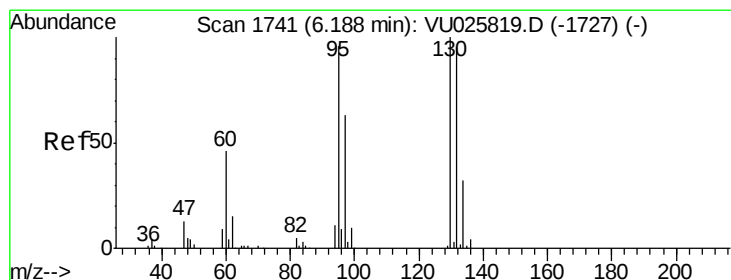
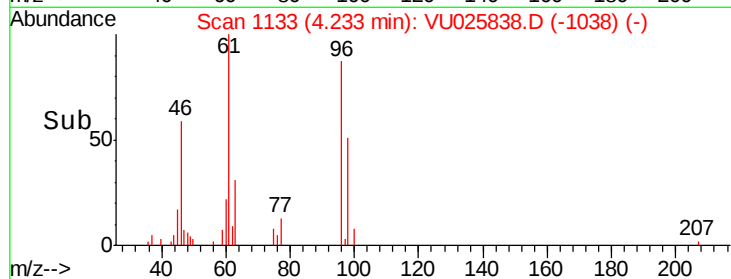
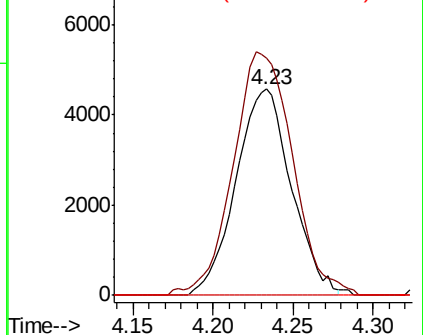
#20  
 cis-1,2-Dichloroethene  
 Concen: 4.88 ug/L  
 RT: 4.23 min Scan# 1133  
 Delta R.T. 0.01 min  
 Lab File: VU025838.D  
 Acq: 03 Aug 2018 23:04

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F78

Tot Ion: 96 Resp: 10887  
 Ion Ratio Lower Upper  
 96 100  
 61 114.9 87.4 162.2  
 68 0.0 0.0 0.0

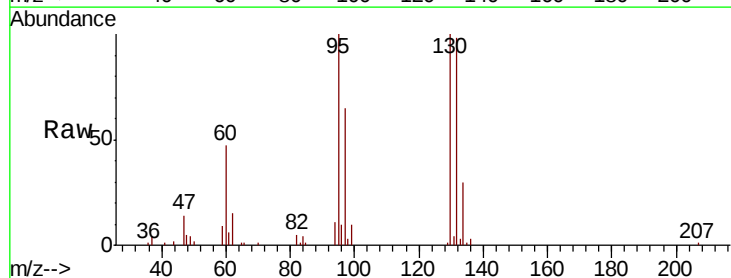


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

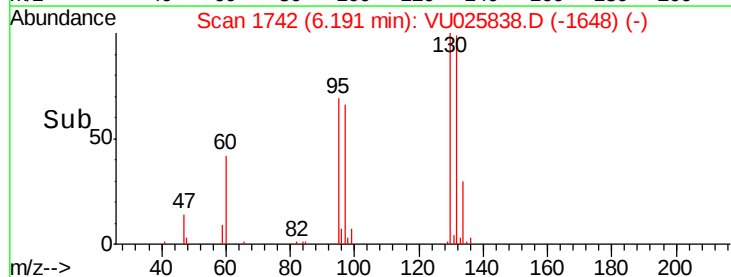
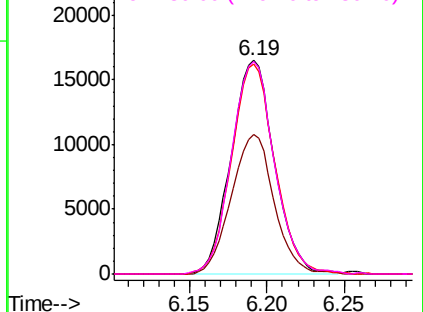


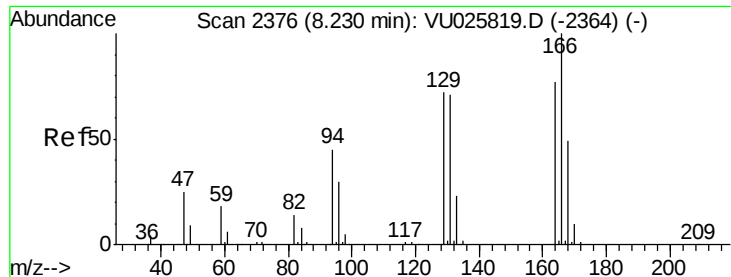
#34  
 Trichloroethene  
 Concen: 14.65 ug/L  
 RT: 6.19 min Scan# 1742  
 Delta R.T. 0.00 min  
 Lab File: VU025838.D  
 Acq: 03 Aug 2018 23:04

Tgt Ion: 95 Resp: 32124  
 Ion Ratio Lower Upper  
 95 100  
 97 65.4 45.9 85.3  
 132 98.3 72.2 134.2  
 130 99.6 74.9 139.1



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





#46

Tetrachloroethene

Concen: 48.32 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU025838.D

Acq: 03 Aug 2018 23:04

Instrument :

MSVOA\_U

ClientSampleId :

E5F78

Tot Ion:164 Resp: 91879

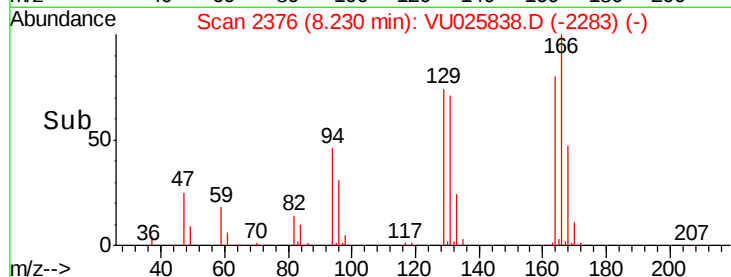
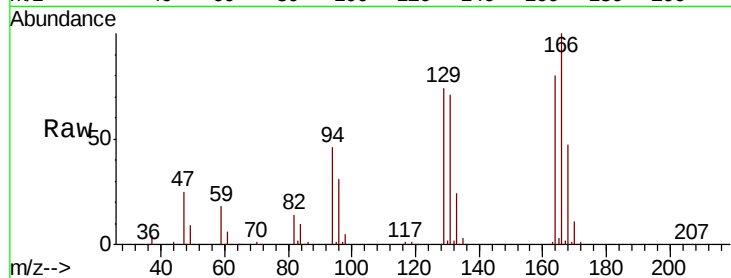
Ion Ratio Lower Upper

164 100

129 92.1 65.1 120.9

131 89.2 62.8 116.6

166 125.0 89.7 166.7



Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

