

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
 Data File : VU033519.D  
 Acq On : 31 Jul 2019 12:39  
 Operator : JC/SP  
 Sample : K4103-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9D6

Quant Time: Aug 01 07:57:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 01 07:20:33 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 305283   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 295591   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 138356   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 110689   | 49.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 99.74%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 96130    | 50.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.96% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 151998   | 37.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.46%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 164394   | 111.82   | ug/L | -0.01   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.82% |
| 24) Chloroform-d               | 4.62    | 84    | 196293   | 52.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.52% |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 127653   | 54.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.36% |
| 32) Benzene-d6                 | 5.32    | 84    | 397952   | 54.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.62% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 128764   | 56.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 112.12% |
| 41) Toluene-d8                 | 7.55    | 98    | 357622   | 52.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.16% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 58861    | 51.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.32% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 121676   | 111.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.57% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 188502   | 53.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.44% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 140934   | 55.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 111.26% |

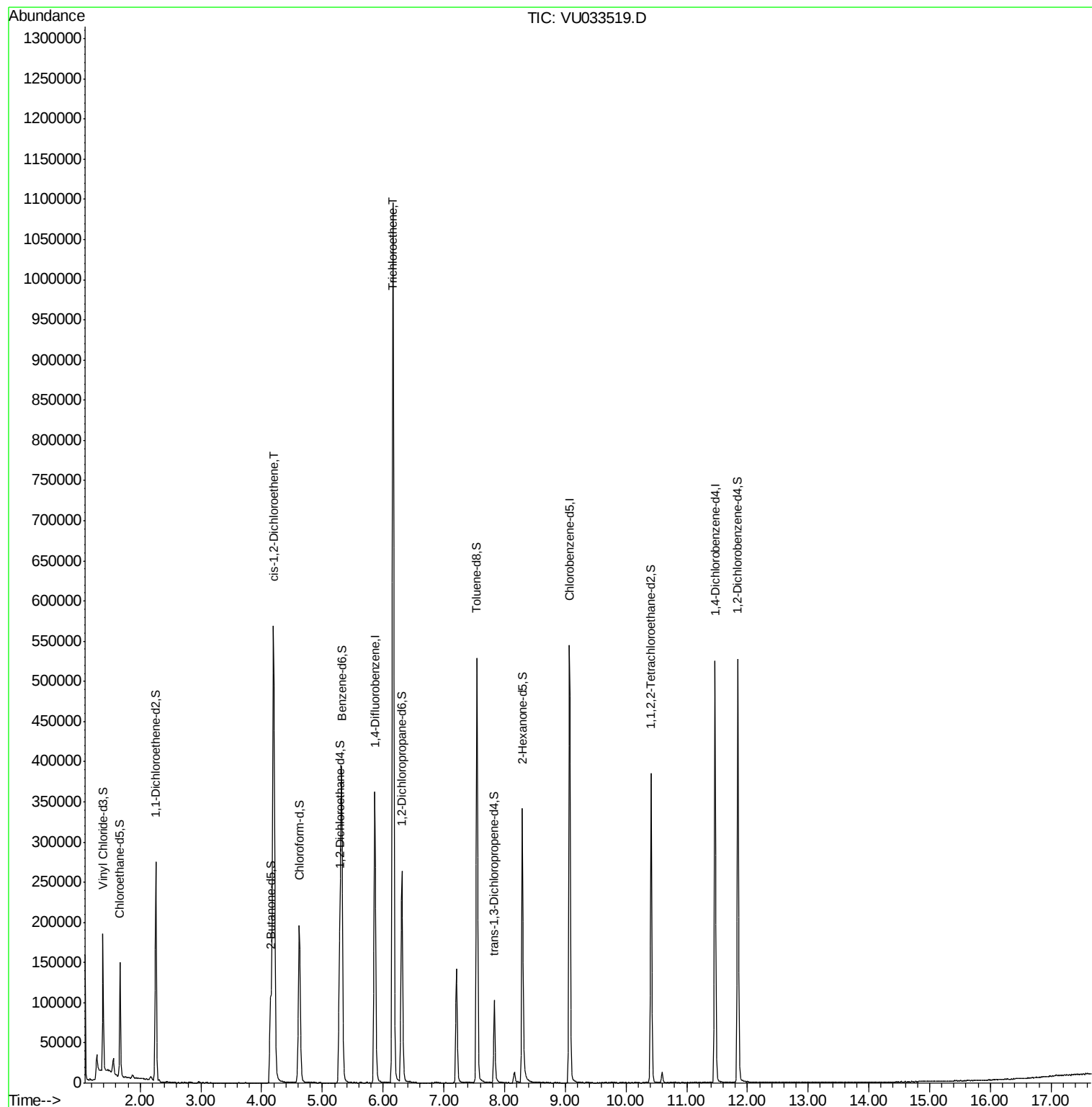
| Target Compounds           |      |    |        |              | Ovalue |
|----------------------------|------|----|--------|--------------|--------|
| 20) cis-1,2-Dichloroethene | 4.20 | 96 | 320384 | 137.809 ug/L | 96     |
| 34) Trichloroethene        | 6.16 | 95 | 373927 | 166.235 ug/L | 98     |

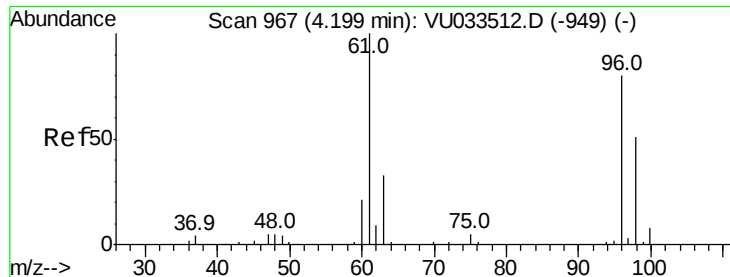
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DB9D6

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Quant Title : VOC Analysis  
QLast Update : Thu Aug 01 07:20:33 2019  
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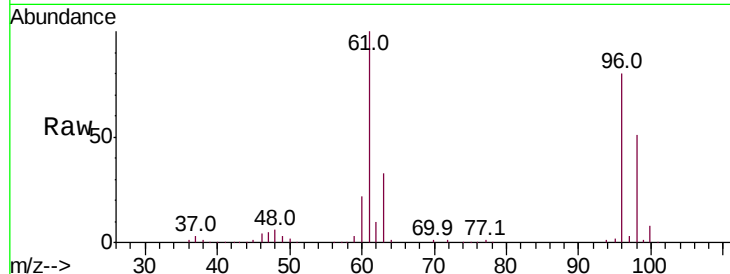


#20

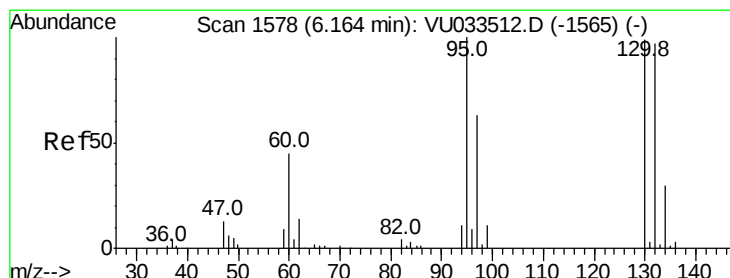
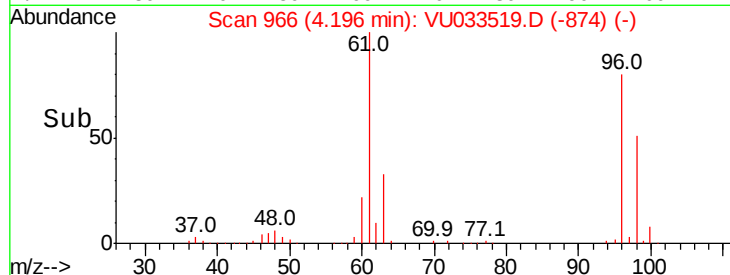
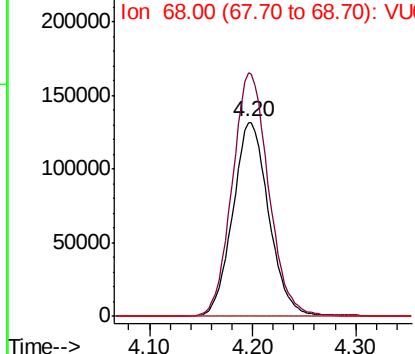
cis-1,2-Dichloroethene  
Concen: 137.809 ug/L  
RT: 4.20 min Scan# 966  
Delta R.T. -0.00 min  
Lab File: VU033519.D  
Acq: 31 Jul 2019 12:39

Instrument :  
MSVOA\_U  
ClientSampled :  
DB9D6

Tot Ion: 96 Resp: 320384  
Ion Ratio Lower Upper  
96 100  
61 125.6 91.3 169.6  
68 0.0 0.0 0.0



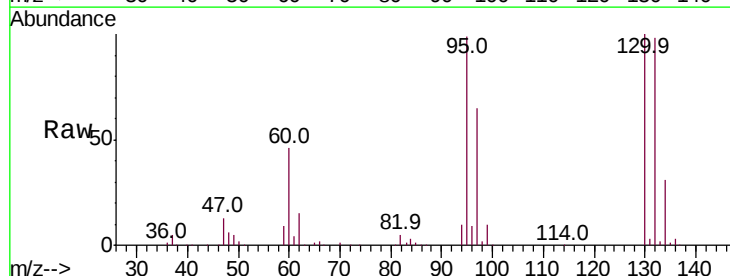
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 68.00 (67.70 to 68.70): VU0



#34

Trichloroethene  
Concen: 166.235 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. -0.00 min  
Lab File: VU033519.D  
Acq: 31 Jul 2019 12:39

Tgt Ion: 95 Resp: 373927  
Ion Ratio Lower Upper  
95 100  
97 65.7 44.7 83.1  
132 98.8 66.8 124.0  
130 101.0 71.6 133.0



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

