

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062219\  
 Data File : VU032947.D  
 Acq On : 21 Jun 2019 16:01  
 Operator : JC/SP  
 Sample : K3469-13  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 T11-MW-13-8.0-061919

Quant Time: Jun 22 01:52:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 22 00:32:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 201453   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 198481   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 92204    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 49320    | 35.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 71.64%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 44351    | 40.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 80.78%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 77840    | 28.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 56.14%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 123067   | 107.40   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.40% |
| 24) Chloroform-d               | 4.64    | 84    | 117022   | 43.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.44%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 82411    | 46.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.46%  |
| 32) Benzene-d6                 | 5.33    | 84    | 216338   | 41.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.62%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 73016    | 44.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.60%  |
| 41) Toluene-d8                 | 7.56    | 98    | 191598   | 39.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 79.08%# |
| 43) trans-1,3-Dichloropropene- | 7.84    | 79    | 34085    | 39.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.50%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 71799    | 93.29    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.29%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 112921   | 44.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 80627    | 45.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.38%  |

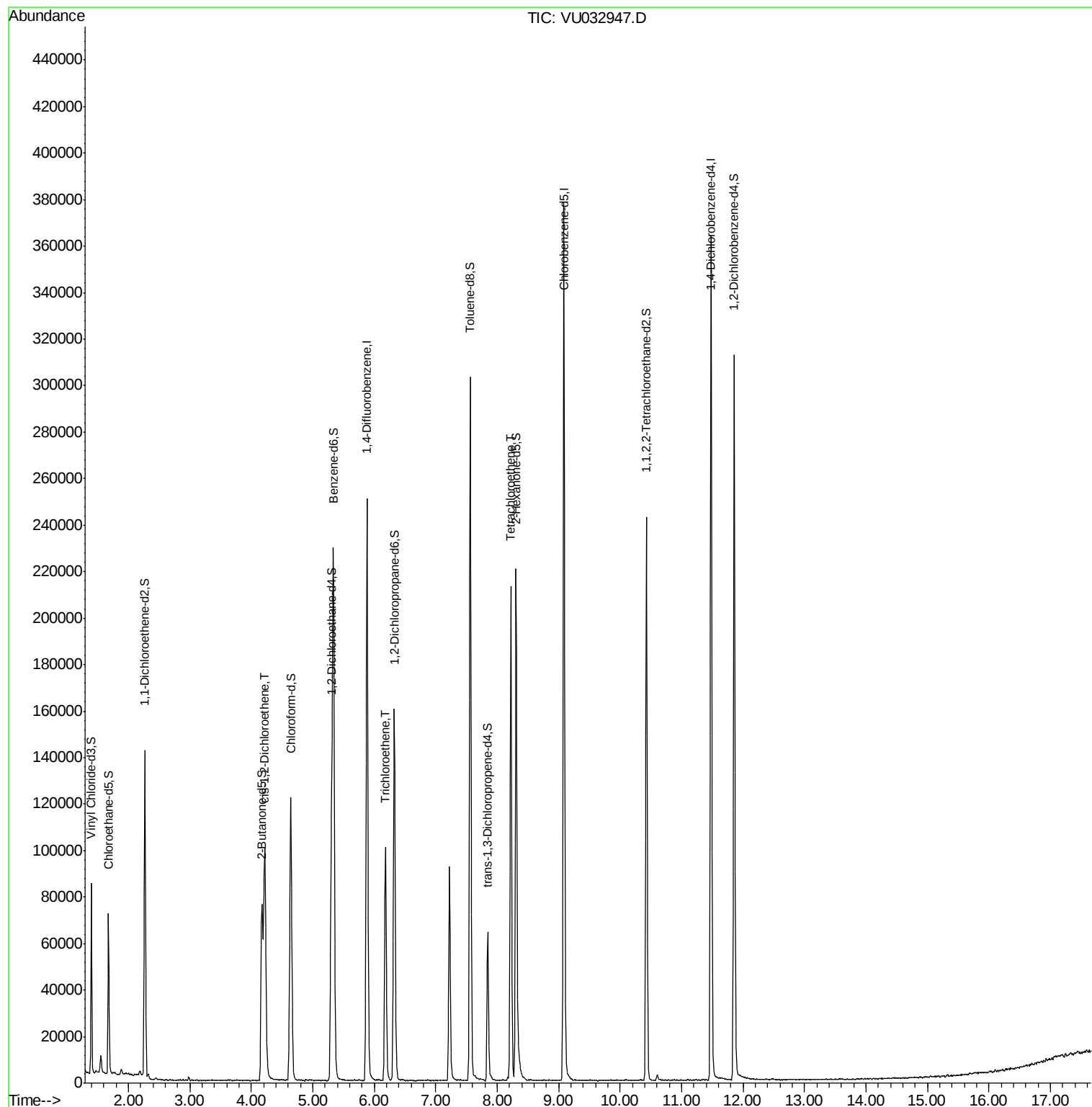
| Target Compounds           |      |     |       |             | Ovalue |
|----------------------------|------|-----|-------|-------------|--------|
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 49950 | 33.329 ug/L | 96     |
| 34) Trichloroethene        | 6.18 | 95  | 32938 | 21.561 ug/L | 98     |
| 46) Tetrachloroethene      | 8.22 | 164 | 45777 | 36.568 ug/L | 98     |

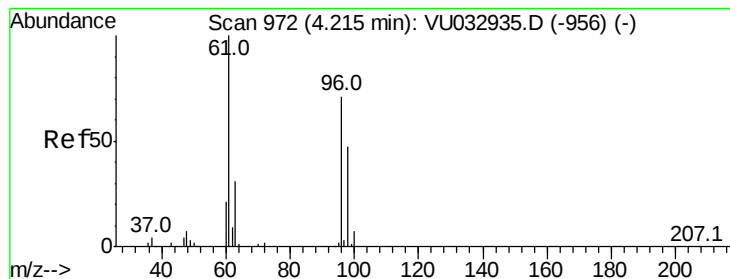
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Jun 22 00:32:21 2019  
Response via : Initial Calibration





#20

cis-1,2-Dichloroethene

Concen: 33.329 ug/L

RT: 4.22 min Scan# 910

Delta R.T. 0.00 min

Lab File: VU032947.D

Acq: 21 Jun 2019 16:01

Instrument :

MSVOA\_U

ClientSampleId :

T11-MW-13-8.0-061919

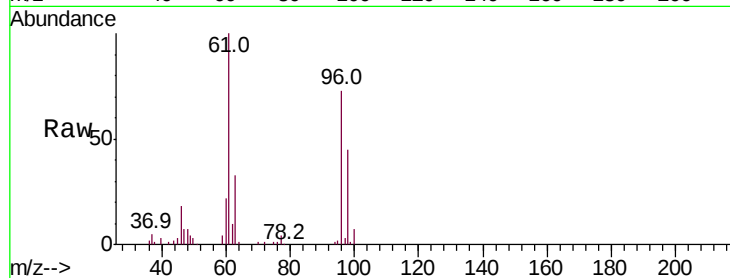
Tot Ion: 96 Resp: 49950

Ion Ratio Lower Upper

96 100

61 137.1 92.4 171.6

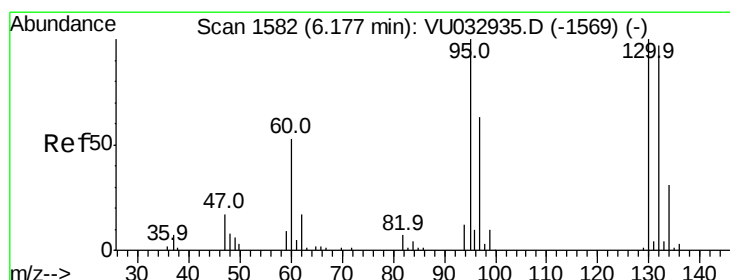
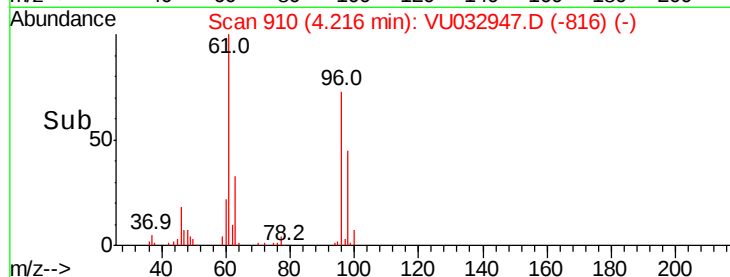
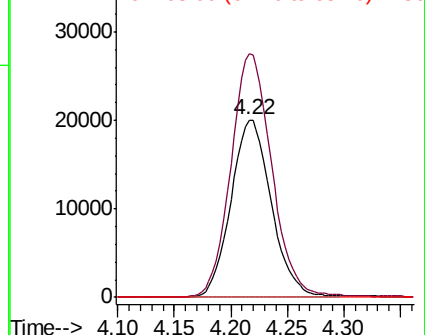
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU032935.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU032935.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU032935.D (-956) (-)



#34

Trichloroethene

Concen: 21.561 ug/L

RT: 6.18 min Scan# 1521

Delta R.T. 0.00 min

Lab File: VU032947.D

Acq: 21 Jun 2019 16:01

Tgt Ion: 95 Resp: 32938

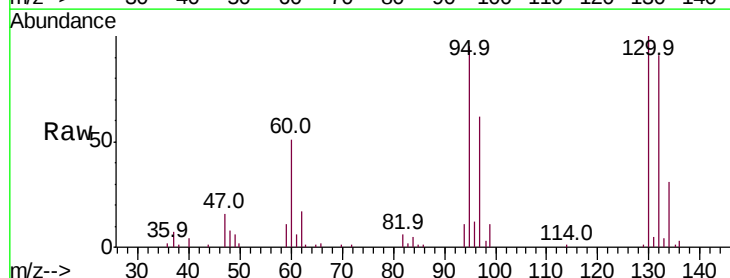
Ion Ratio Lower Upper

95 100

97 65.1 45.9 85.3

132 96.7 68.5 127.3

130 105.7 70.8 131.4

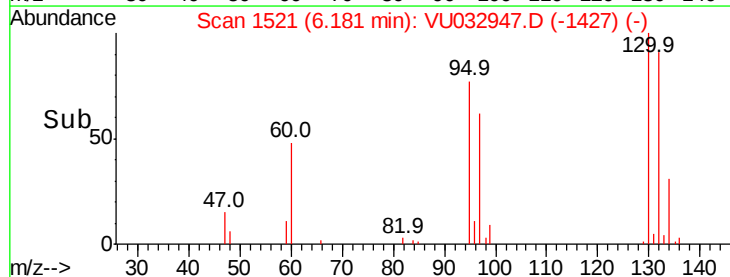
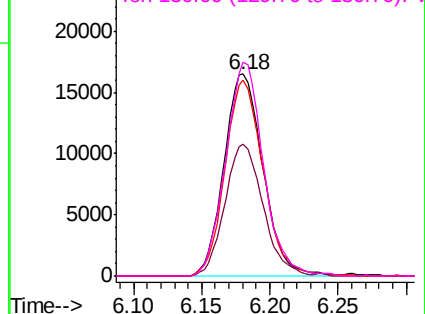


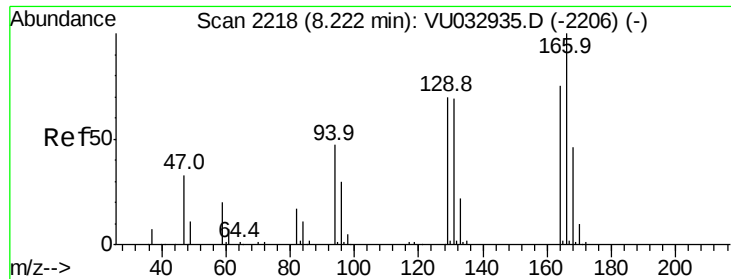
Abundance Ion 95.00 (94.70 to 95.70): VU032935.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU032935.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU032935.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU032935.D (-1569) (-)





#46

Tetrachloroethene

Concen: 36.568 ug/L

RT: 8.22 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VU032947.D

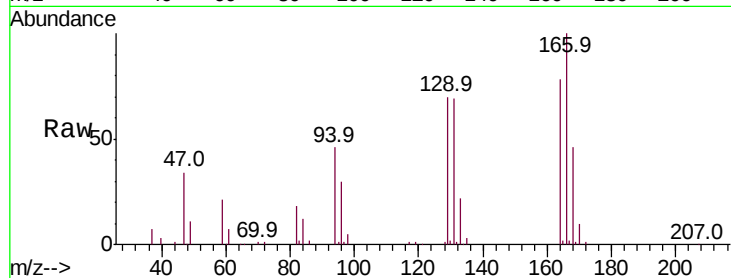
Acq: 21 Jun 2019 16:01

Instrument :

MSVOA\_U

ClientSampleId :

T11-MW-13-8.0-061919



Tot Ion:164 Resp: 45777

Ion Ratio Lower Upper

164 100

129 90.1 64.8 120.3

131 88.9 64.5 119.7

166 128.3 91.3 169.6

