

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082319\  
 Data File : VU033936.D  
 Acq On : 23 Aug 2019 12:43  
 Operator : JC/SP  
 Sample : K4454-03DL 4X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B86DL

Quant Time: Aug 26 07:10:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Aug 26 06:54:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 546930   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 551698   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 223141   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 206210   | 42.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.98%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 176065   | 46.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.56%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 304093   | 35.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.30%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 304321   | 94.29    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.29%  |
| 24) Chloroform-d               | 4.62    | 84    | 359506   | 46.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.08%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 253568   | 50.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.50% |
| 32) Benzene-d6                 | 5.31    | 84    | 759054   | 48.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.86%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 254649   | 50.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.16% |
| 41) Toluene-d8                 | 7.55    | 98    | 651244   | 45.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.96%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 108248   | 46.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.24%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 189708   | 89.71    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.71%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 342505   | 47.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 238328   | 52.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.68% |

## Target Compounds

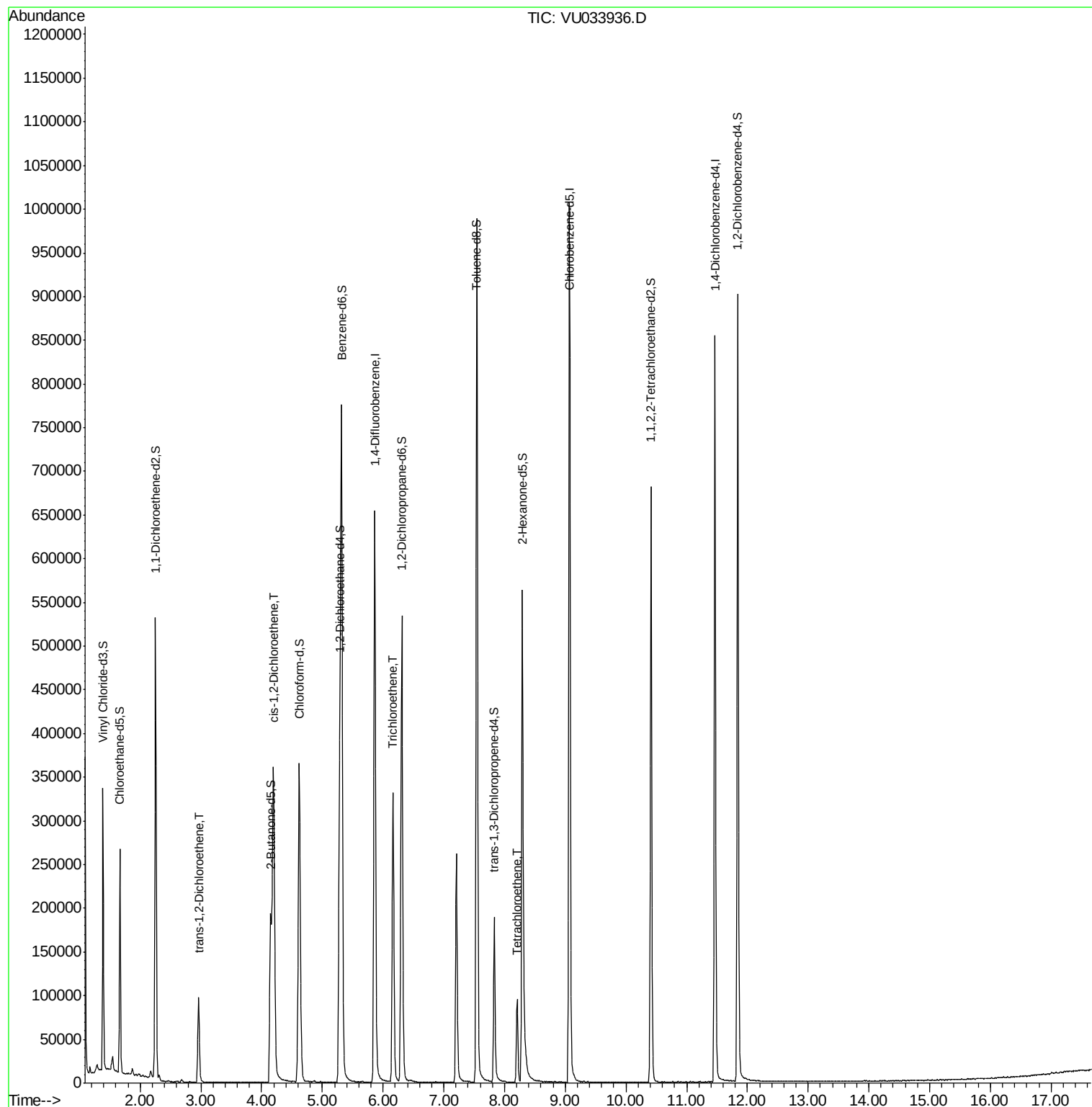
|                              |      |     |        |             | Ovalue |
|------------------------------|------|-----|--------|-------------|--------|
| 17) trans-1,2-Dichloroethene | 2.96 | 96  | 37502  | 9.466 ug/L  | 97     |
| 20) cis-1,2-Dichloroethene   | 4.20 | 96  | 188859 | 43.305 ug/L | 100    |
| 34) Trichloroethene          | 6.16 | 95  | 115123 | 26.596 ug/L | 99     |
| 46) Tetrachloroethene        | 8.21 | 164 | 21161  | 6.291 ug/L  | 95     |

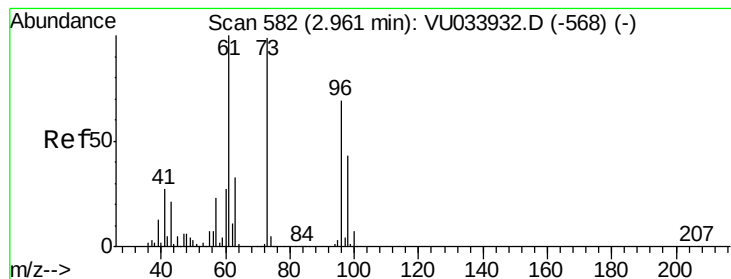
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#17

trans-1,2-Dichloroethene

Concen: 9.466 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033936.D

Acq: 23 Aug 2019 12:43

Instrument :

MSVOA\_U

ClientSampleId :

F2B86DL

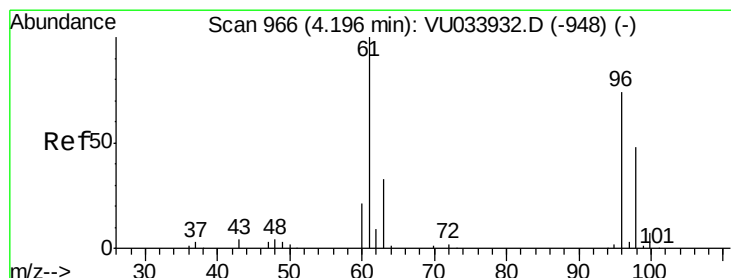
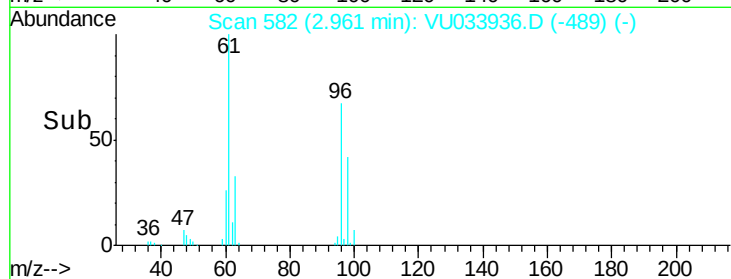
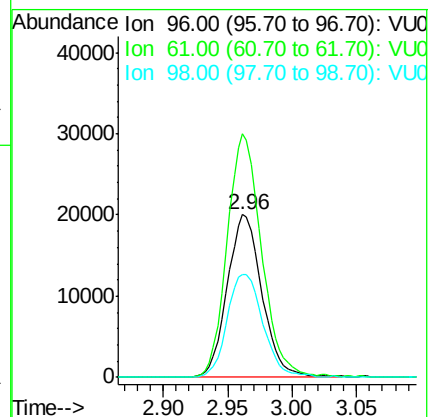
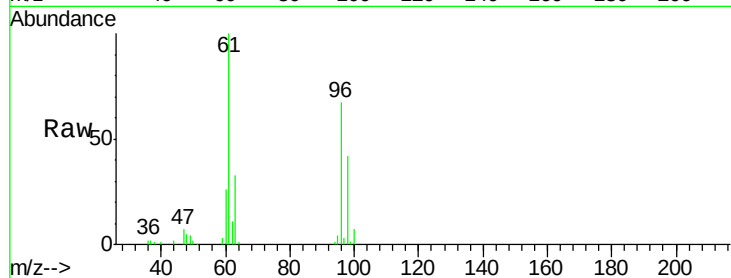
Tot Ion: 96 Resp: 37502

Ion Ratio Lower Upper

96 100

61 149.7 101.2 187.8

98 63.5 44.0 81.6



#20

cis-1,2-Dichloroethene

Concen: 43.305 ug/L

RT: 4.20 min Scan# 966

Delta R.T. 0.00 min

Lab File: VU033936.D

Acq: 23 Aug 2019 12:43

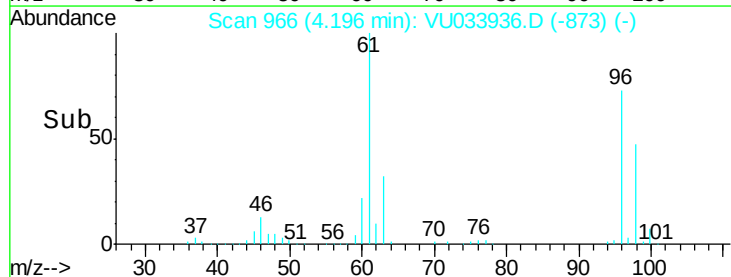
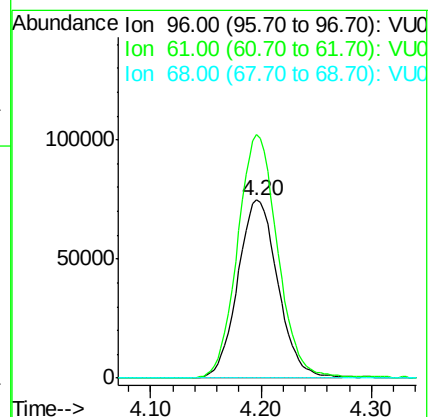
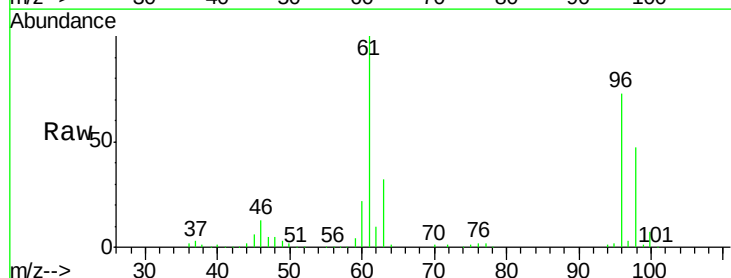
Tgt Ion: 96 Resp: 188859

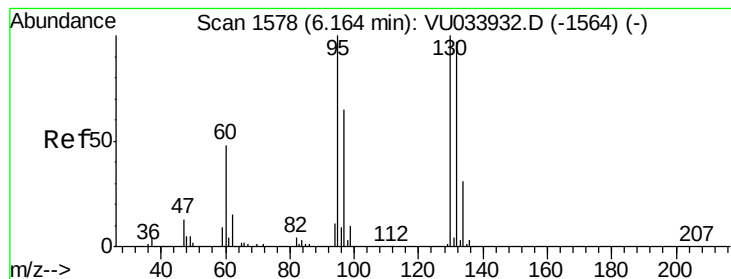
Ion Ratio Lower Upper

96 100

61 136.9 95.5 177.4

68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 26.596 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033936.D

Acq: 23 Aug 2019 12:43

Instrument :

MSVOA\_U

ClientSampleId :

F2B86DL

Tot Ion: 95 Resp: 115123

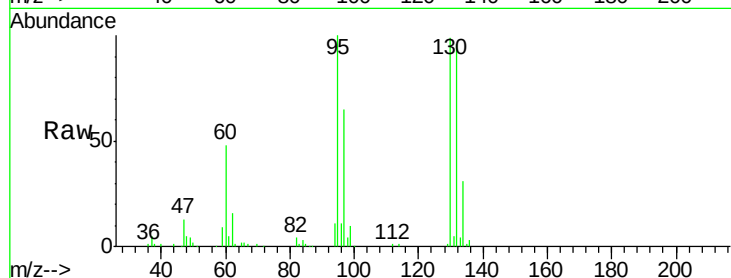
Ion Ratio Lower Upper

95 100

97 64.6 44.7 82.9

132 95.6 65.7 122.1

130 98.9 70.0 130.0

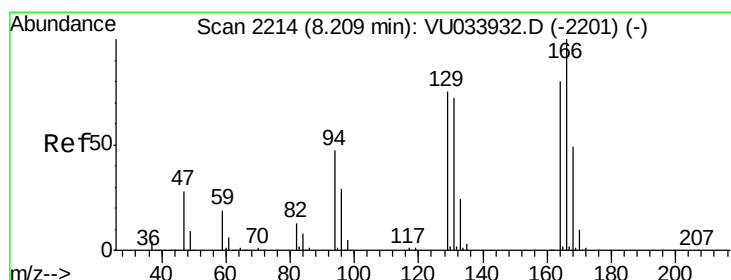
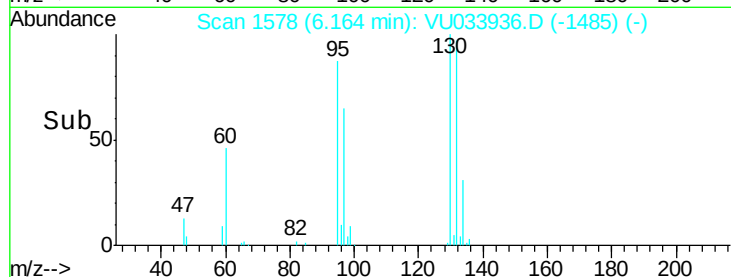
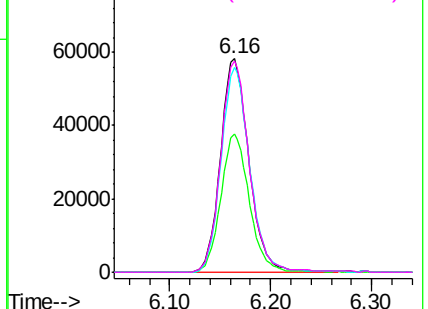


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#46

Tetrachloroethene

Concen: 6.291 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033936.D

Acq: 23 Aug 2019 12:43

Tgt Ion:164 Resp: 21161

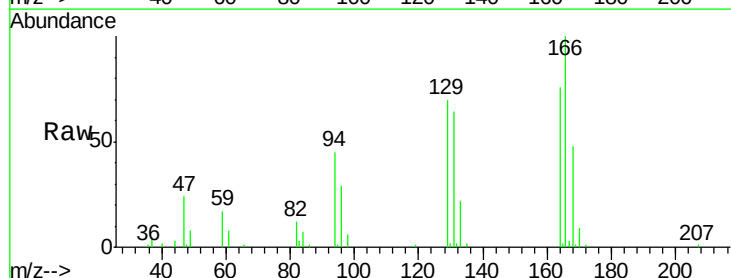
Ion Ratio Lower Upper

164 100

129 92.8 63.9 118.7

131 84.4 62.5 116.1

166 131.6 87.3 162.1



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

