

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
 Data File : VU037108.D  
 Acq On : 06 Mar 2020 14:45  
 Operator : JC/MD  
 Sample : L1784-11DL 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AZ9DL

Quant Time: Mar 07 01:40:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 06 23:54:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 260372   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 247657   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 84055    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 92095    | 42.12    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.24% |
| 7) Chloroethane-d5             | 1.93    | 69    | 84287    | 46.59    | ug/L | 0.01   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.18% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 120155   | 32.82    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.64% |
| 21) 2-Butanone-d5              | 4.67    | 46    | 139712   | 95.26    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.26% |
| 24) Chloroform-d               | 5.10    | 84    | 151127   | 45.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.52% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 105364   | 46.63    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.26% |
| 32) Benzene-d6                 | 5.76    | 84    | 327375   | 45.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.42% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 108600   | 46.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.62% |
| 41) Toluene-d8                 | 7.92    | 98    | 289219   | 43.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.06% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 43914    | 40.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.46% |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 90274    | 79.57    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 79.57% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 146115   | 44.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.34% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 79584    | 48.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.86% |

## Target Compounds

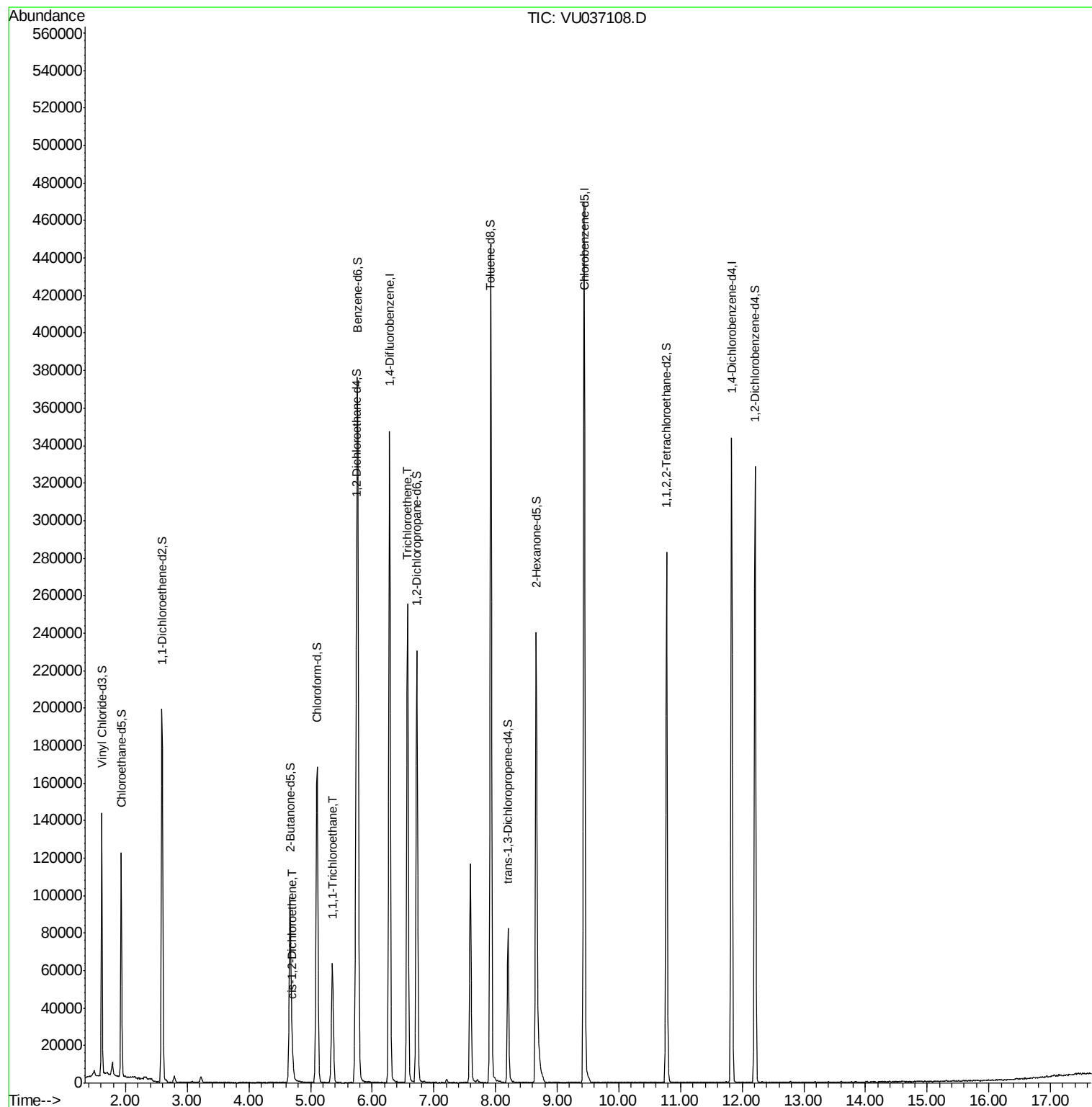
|                            |      |    |       |             | Ovalue |
|----------------------------|------|----|-------|-------------|--------|
| 20) cis-1,2-Dichloroethene | 4.71 | 96 | 4463  | 2.209 ug/L  | 94     |
| 30) 1,1,1-Trichloroethane  | 5.36 | 97 | 44333 | 16.696 ug/L | 99     |
| 34) Trichloroethene        | 6.57 | 95 | 87778 | 45.647 ug/L | 98     |

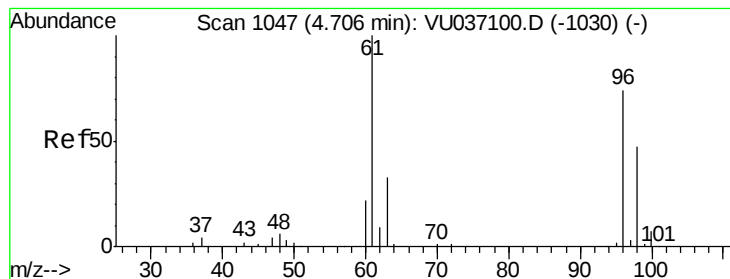
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Mar 06 23:54:55 2020  
Response via : Initial Calibration





#20

cis-1,2-Dichloroethene

Concen: 2.209 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. 0.01 min

Lab File: VU037108.D

Acq: 06 Mar 2020 14:45

Instrument :

MSVOA\_U

ClientSampleId :

C0AZ9DL

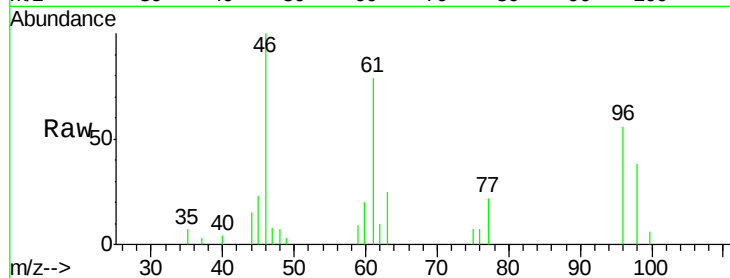
Tot Ion: 96 Resp: 4463

Ion Ratio Lower Upper

96 100

61 139.8 93.1 172.9

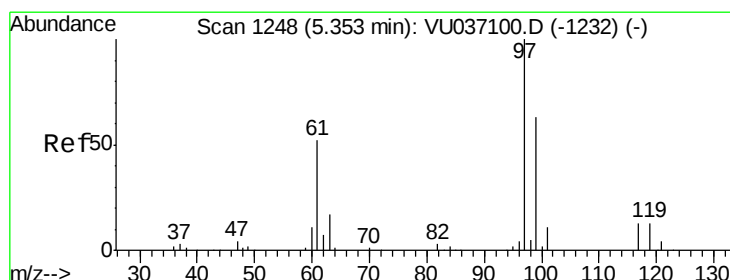
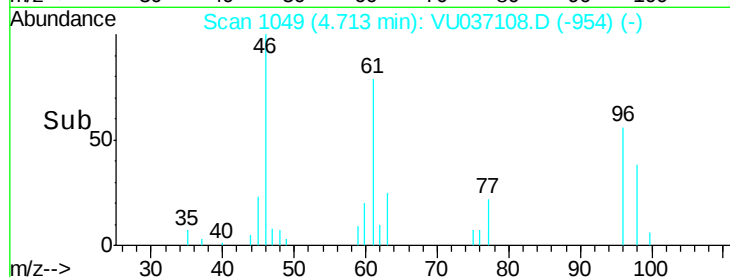
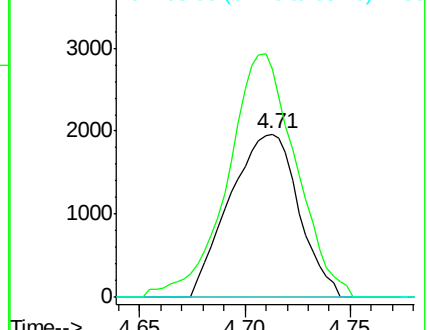
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037100.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU037100.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU037100.D (-1030) (-)



#30

1,1,1-Trichloroethane

Concen: 16.696 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037108.D

Acq: 06 Mar 2020 14:45

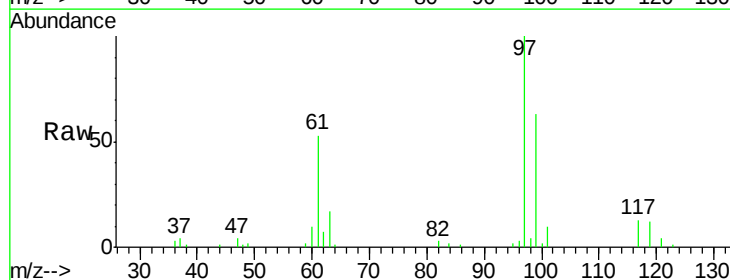
Tgt Ion: 97 Resp: 44333

Ion Ratio Lower Upper

97 100

99 63.0 50.4 75.6

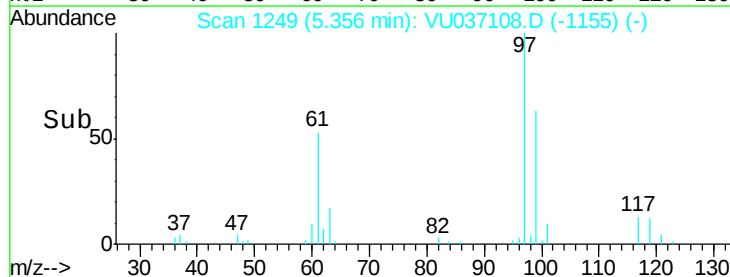
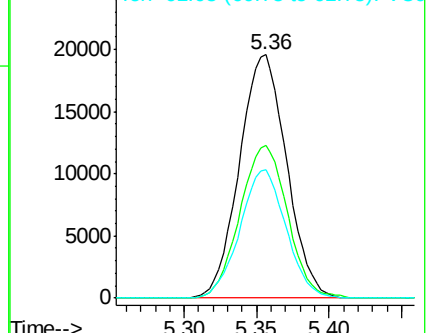
61 51.4 40.3 60.5

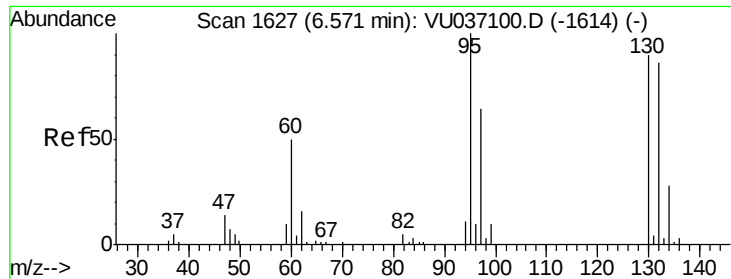


Abundance Ion 97.00 (96.70 to 97.70): VU037100.D (-1232) (-)

Ion 99.00 (98.70 to 99.70): VU037100.D (-1232) (-)

Ion 61.05 (60.75 to 61.75): VU037100.D (-1232) (-)





#34  
 Trichloroethene  
 Concen: 45.647 ug/L  
 RT: 6.57 min Scan# 1627  
 Delta R.T. 0.00 min  
 Lab File: VU037108.D  
 Acq: 06 Mar 2020 14:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AZ9DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 87778 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 63.0  | 44.1  | 81.9  |
| 132      | 87.3  | 60.6  | 112.6 |
| 130      | 88.3  | 64.9  | 120.5 |

