

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082119\  
 Data File : VU033867.D  
 Acq On : 21 Aug 2019 12:52  
 Operator : JC/SP  
 Sample : K4420-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B39

Quant Time: Aug 22 06:06:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081619WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 22 05:44:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 392718   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 394366   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 163816   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 164228   | 46.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.96%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 142949   | 43.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.52%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 219561   | 37.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.36%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 180495   | 97.41    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.41%  |
| 24) Chloroform-d               | 4.62    | 84    | 264165   | 46.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 173493   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.54%  |
| 32) Benzene-d6                 | 5.32    | 84    | 533699   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.14%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 176997   | 49.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.84%  |
| 41) Toluene-d8                 | 7.55    | 98    | 469442   | 45.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.96%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 75515    | 45.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.44%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 114713   | 86.96    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.96%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 237699   | 48.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.04%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 174483   | 53.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.88% |

## Target Compounds

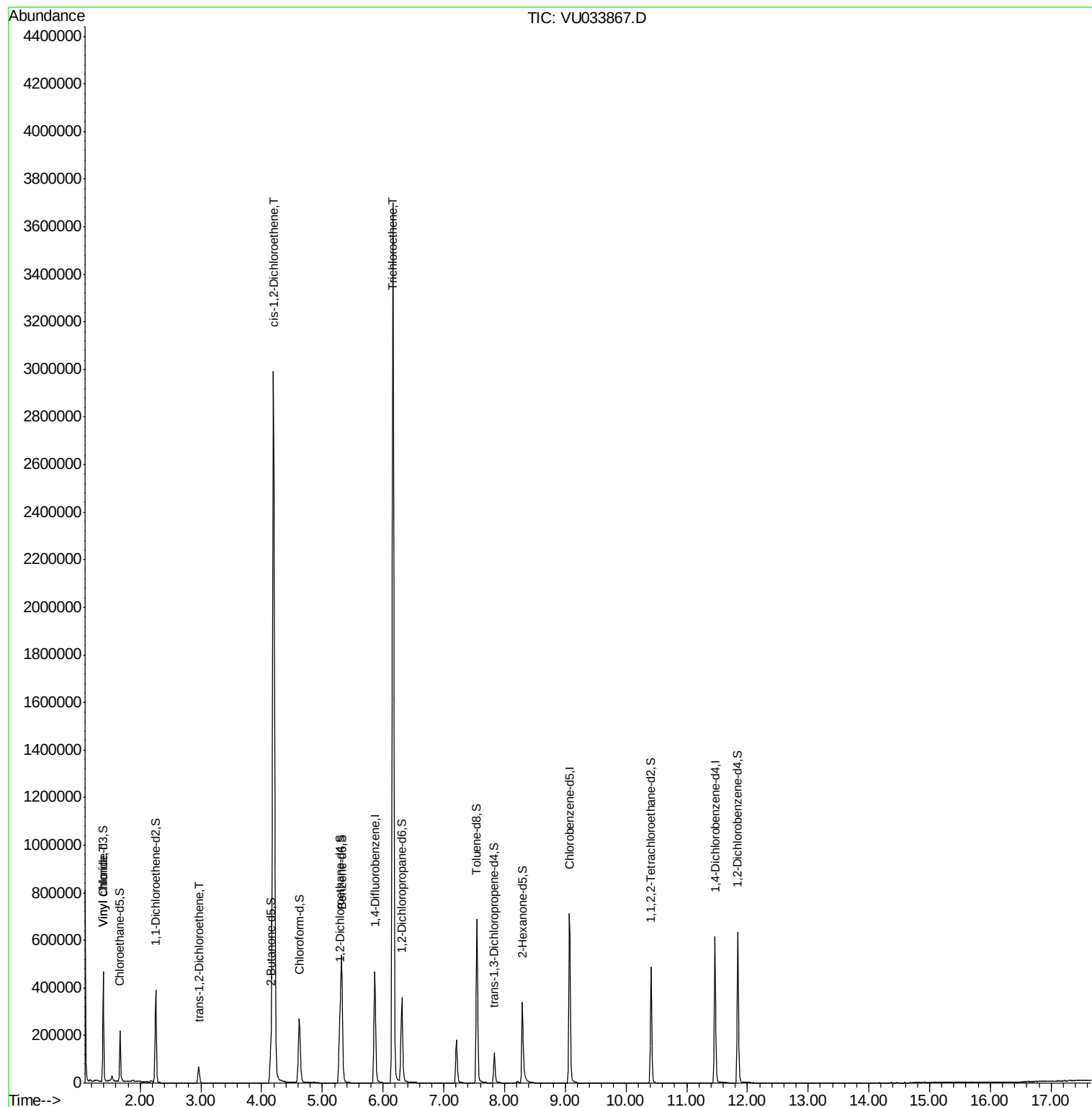
|                              |      |    |         |         | Ovalue   |
|------------------------------|------|----|---------|---------|----------|
| 5) Vinyl chloride            | 1.39 | 62 | 149021  | 33.784  | ug/L 100 |
| 17) trans-1,2-Dichloroethene | 2.96 | 96 | 27955   | 9.880   | ug/L 97  |
| 20) cis-1,2-Dichloroethene   | 4.20 | 96 | 1678439 | 548.388 | ug/L 98  |
| 34) Trichloroethene          | 6.16 | 95 | 1250684 | 393.377 | ug/L 99  |

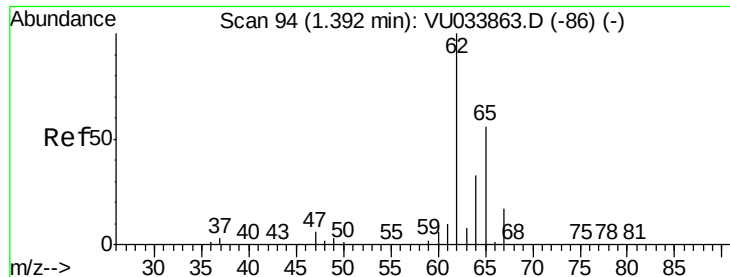
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU082119\  
Data File : VU033867.D  
Acq On : 21 Aug 2019 12:52  
Operator : JC/SP  
Sample : K4420-02  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B39

Quant Time: Aug 22 06:06:32 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 22 05:44:00 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 33.784 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033867.D

Acq: 21 Aug 2019 12:52

Instrument :

MSVOA\_U

ClientSampleId :

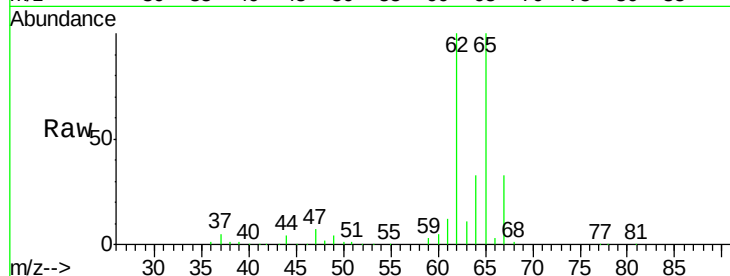
F2B39

Tot Ion: 62 Resp: 149021

Ion Ratio Lower Upper

62 100

64 33.5 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

150000

100000

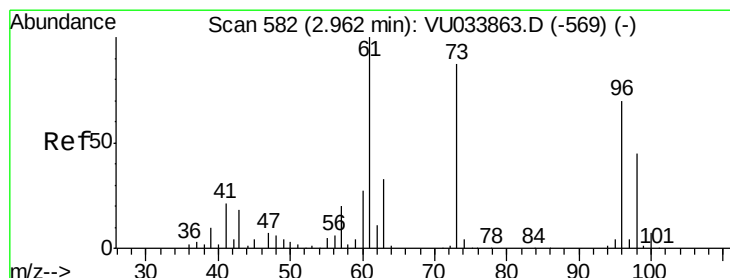
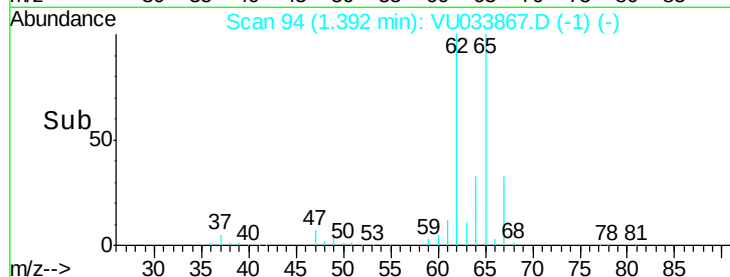
50000

0

1.39

1.35 1.40 1.45

Time-->



#17

trans-1,2-Dichloroethene

Concen: 9.880 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033867.D

Acq: 21 Aug 2019 12:52

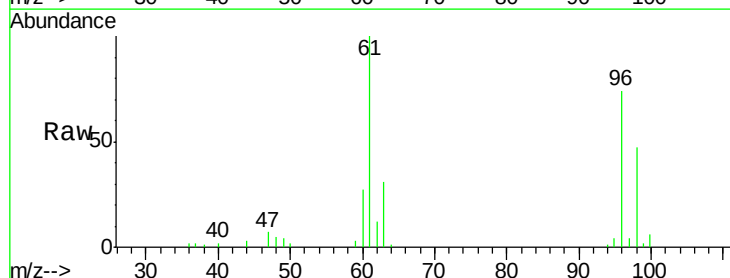
Tgt Ion: 96 Resp: 27955

Ion Ratio Lower Upper

96 100

61 135.5 98.6 183.2

98 63.2 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

25000

20000

15000

10000

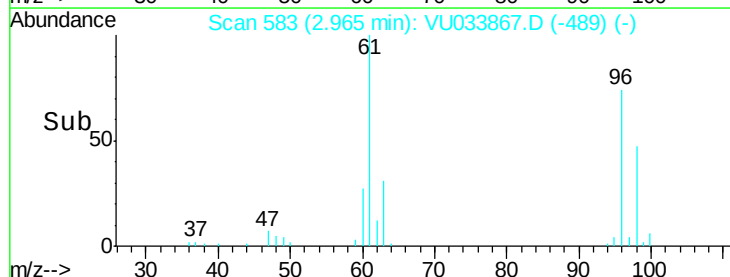
5000

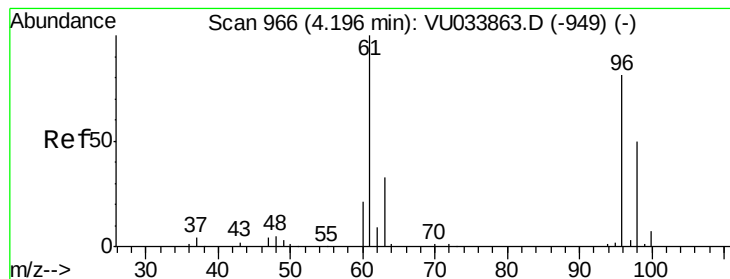
0

2.96

2.90 2.95 3.00

Time-->



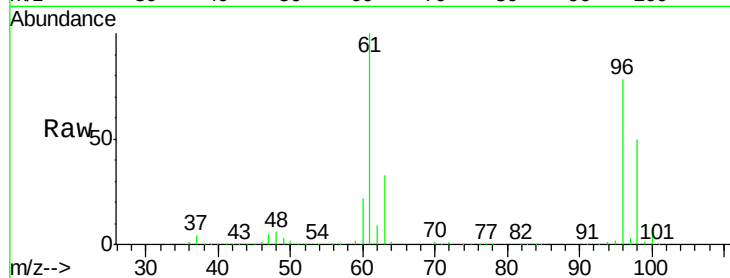


#20

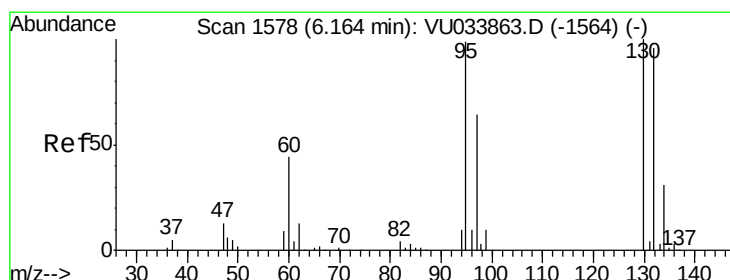
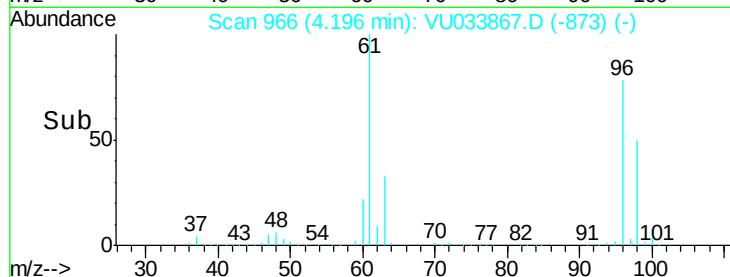
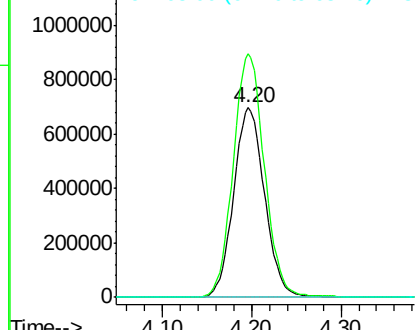
cis-1,2-Dichloroethene  
Concen: 548.388 ug/L  
RT: 4.20 min Scan# 966  
Delta R.T. -0.00 min  
Lab File: VU033867.D  
Acq: 21 Aug 2019 12:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B39

Tot Ion: 96 Resp: 1678439  
Ion Ratio Lower Upper  
96 100  
61 128.6 88.2 163.8  
68 0.0 0.0 0.0



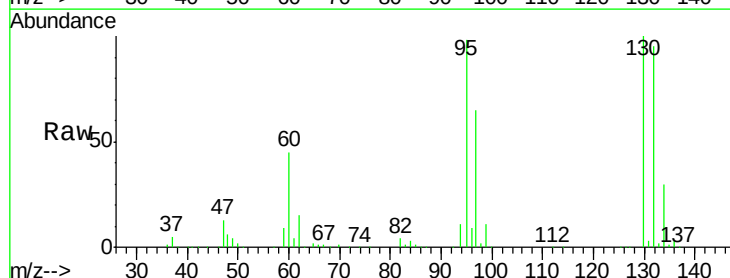
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 68.00 (67.70 to 68.70): VU0



#34

Trichloroethene  
Concen: 393.377 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. -0.00 min  
Lab File: VU033867.D  
Acq: 21 Aug 2019 12:52

Tgt Ion: 95 Resp: 1250684  
Ion Ratio Lower Upper  
95 100  
97 65.7 46.3 86.1  
132 97.1 67.9 126.1  
130 101.6 72.0 133.6



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

