

Data File : VU033738.D  
Acq On : 11 Aug 2019 00:46  
Operator : JC/SP  
Sample : K4289-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B30

Quant Time: Aug 12 01:59:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sun Aug 11 04:51:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.87  | 114  | 288551   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 282345   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 136276   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 92033    | 43.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.66%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 80108    | 37.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.26%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 116213   | 32.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.08%  |
| 21) 2-Butanone-d5              | 4.16    | 46    | 98588    | 74.87    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 74.87%  |
| 24) Chloroform-d               | 4.62    | 84    | 113307   | 35.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 71.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 70034    | 35.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 70.98%  |
| 32) Benzene-d6                 | 5.32    | 84    | 243541   | 36.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 73.10%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 73295    | 35.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 71.68%  |
| 41) Toluene-d8                 | 7.55    | 98    | 210672   | 33.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 67.22%# |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 30513    | 29.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.10%# |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 66397    | 62.69    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 62.69%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 101510   | 33.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 67.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 77978    | 34.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 68.00%# |

#### Target Compounds

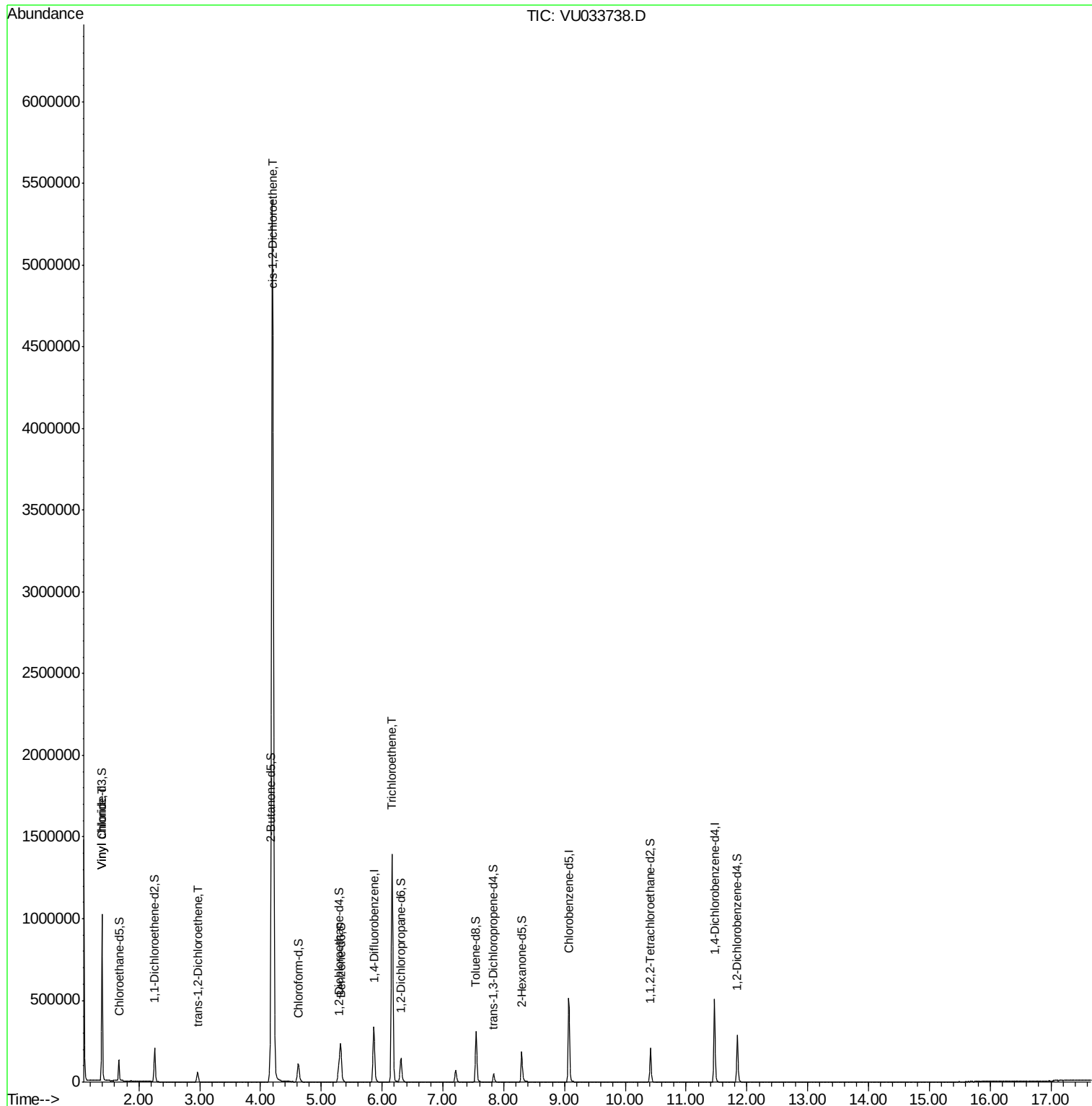
|                              |      |    |         |          |      | Qvalue |
|------------------------------|------|----|---------|----------|------|--------|
| 5) Vinyl chloride            | 1.39 | 62 | 579519  | 238.579  | ug/L | 96     |
| 17) trans-1,2-Dichloroethene | 2.96 | 96 | 25316   | 13.921   | ug/L | 94     |
| 20) cis-1,2-Dichloroethene   | 4.20 | 96 | 2965342 | 1429.551 | ug/L | 94     |
| 34) Trichloroethene          | 6.16 | 95 | 472599  | 227.951  | ug/L | 97     |

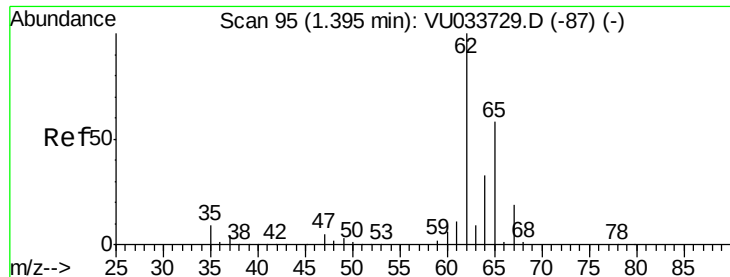
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU033738.D  
Acq On : 11 Aug 2019 00:46  
Operator : JC/SP  
Sample : K4289-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B30

Quant Time: Aug 12 01:59:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sun Aug 11 04:51:09 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 238.579 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033738.D

Acq: 11 Aug 2019 00:46

Instrument :

MSVOA\_U

ClientSampled :

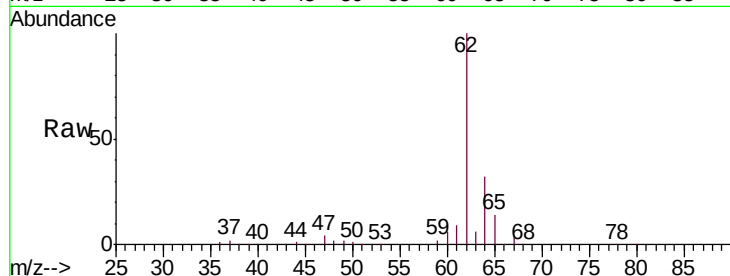
F2B30

Tgt Ion: 62 Resp: 579519

Ion Ratio Lower Upper

62 100

64 31.8 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.39

600000

500000

400000

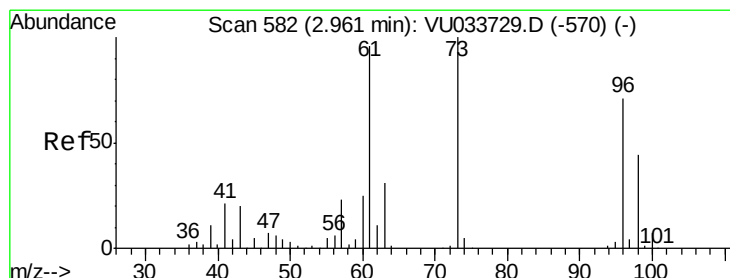
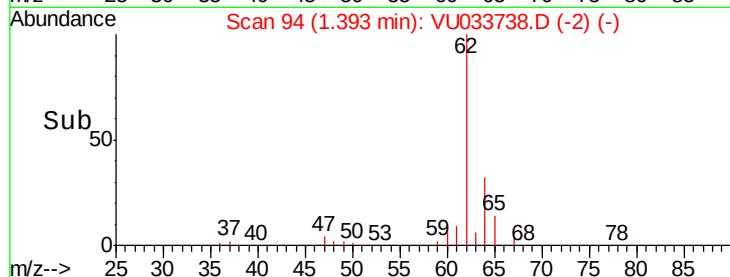
300000

200000

100000

0

Time-->



#17

trans-1,2-Dichloroethene

Concen: 13.921 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033738.D

Acq: 11 Aug 2019 00:46

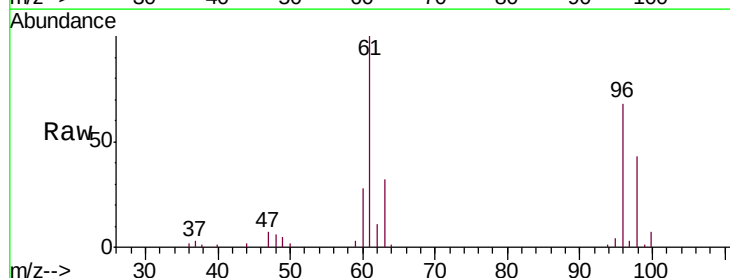
Tgt Ion: 96 Resp: 25316

Ion Ratio Lower Upper

96 100

61 146.8 95.6 177.6

98 62.5 44.6 82.8



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

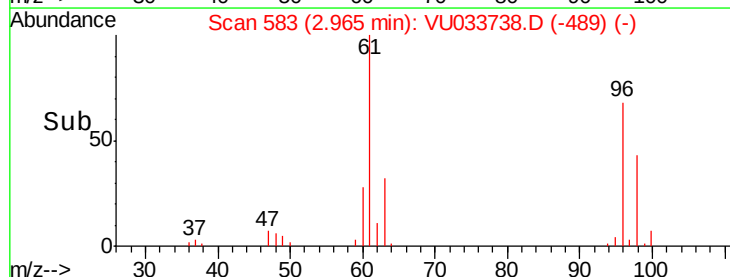
15000

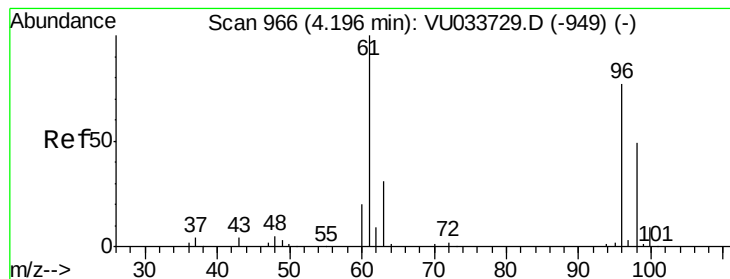
10000

5000

0

Time-->



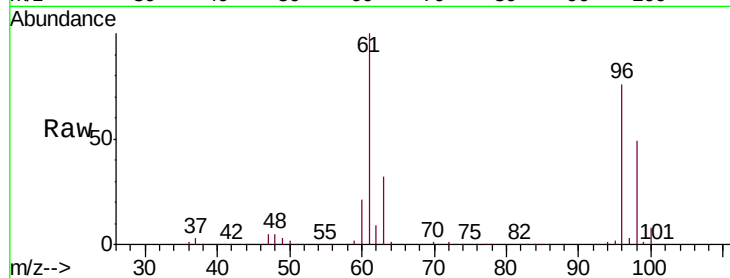


#20

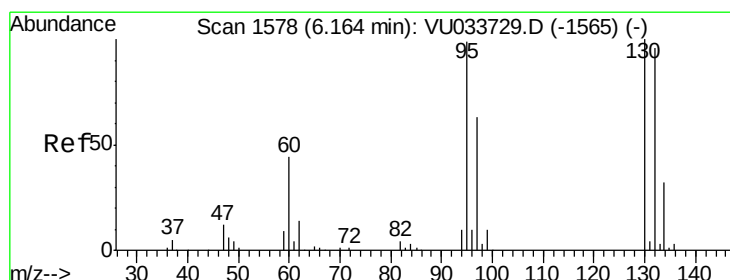
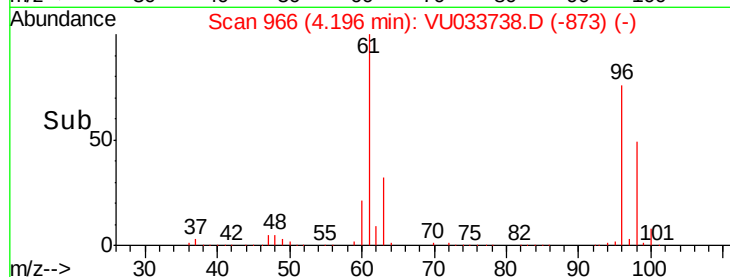
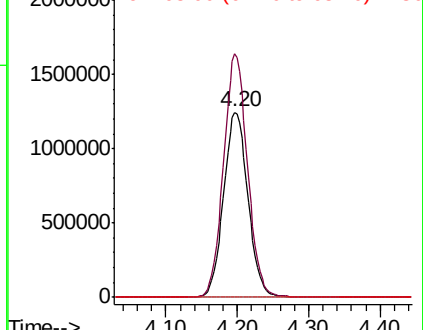
cis-1,2-Dichloroethene  
Concen: 1429.551 ug/L  
RT: 4.20 min Scan# 966  
Delta R.T. 0.00 min  
Lab File: VU033738.D  
Acq: 11 Aug 2019 00:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B30

Tgt Ion: 96 Resp: 2965342  
Ion Ratio Lower Upper  
96 100  
61 131.5 87.0 161.6  
68 0.0 0.0 0.0



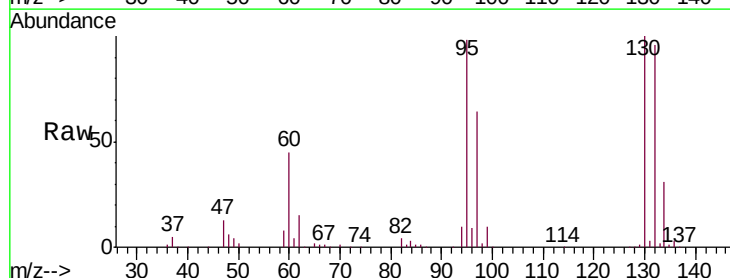
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 68.00 (67.70 to 68.70): VU0



#34

Trichloroethene  
Concen: 227.951 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. 0.00 min  
Lab File: VU033738.D  
Acq: 11 Aug 2019 00:46

Tgt Ion: 95 Resp: 472599  
Ion Ratio Lower Upper  
95 100  
97 65.4 45.6 84.8  
132 97.8 72.0 133.8  
130 102.0 74.3 138.1



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

