

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050719\  
 Data File : VU031800.D  
 Acq On : 07 May 2019 13:30  
 Operator : JC/SP  
 Sample : K2705-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0B46

Quant Time: May 08 07:40:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 08 06:47:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 621938   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 613124   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 218472   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 248518   | 47.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.48%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 187688   | 46.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.32%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 381332   | 36.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.58%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 486611   | 103.18   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.18% |
| 24) Chloroform-d               | 4.64    | 84    | 445685   | 46.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 328550   | 52.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.50% |
| 32) Benzene-d6                 | 5.34    | 84    | 881830   | 46.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.68%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 318179   | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.08%  |
| 41) Toluene-d8                 | 7.56    | 98    | 710411   | 43.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.64%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 122235   | 42.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.98%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 268537   | 93.66    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.66%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 396556   | 44.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 217486   | 47.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.68%  |

## Target Compounds

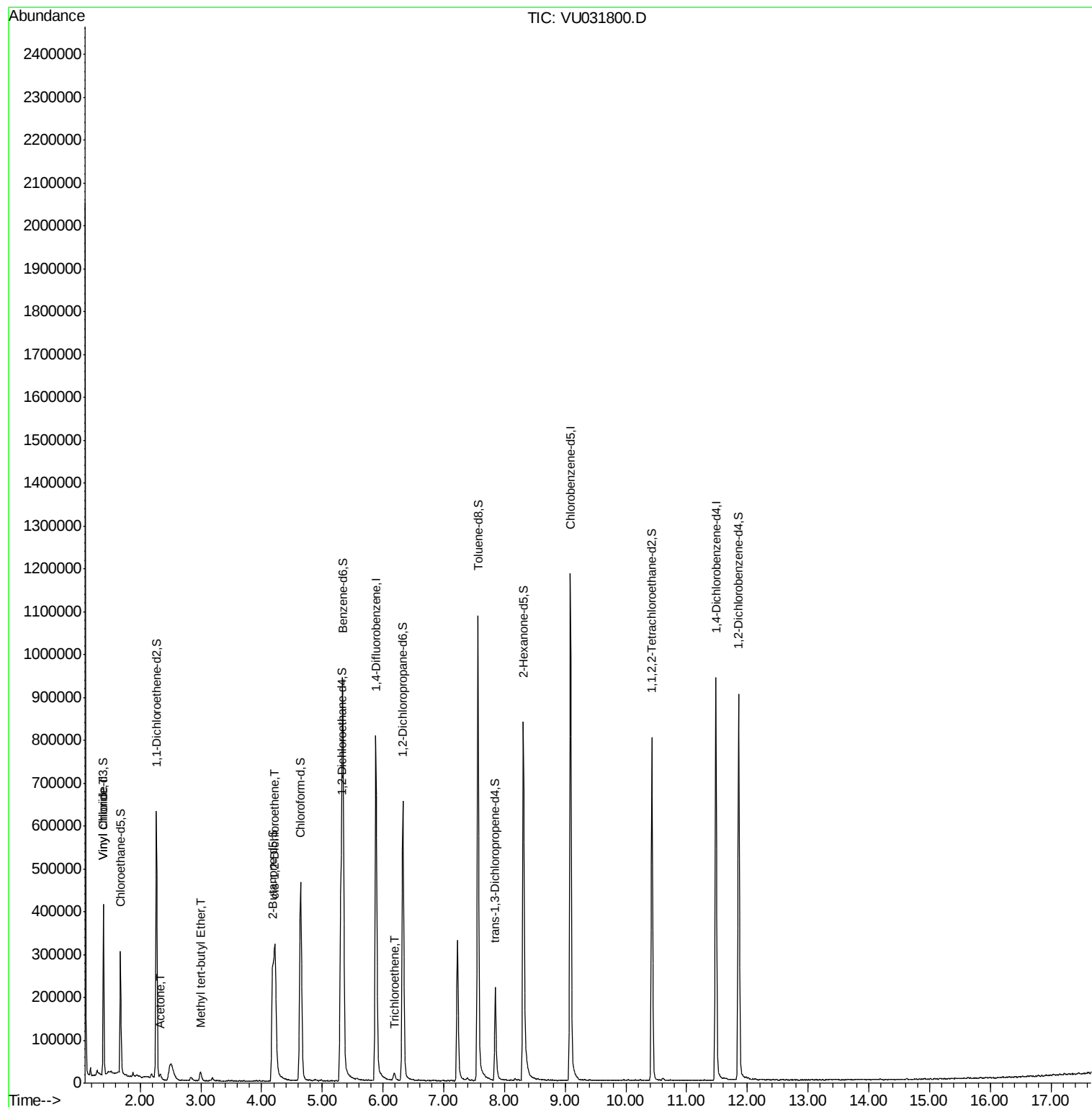
|                             |      |    |        |              | Ovalue |
|-----------------------------|------|----|--------|--------------|--------|
| 5) Vinyl chloride           | 1.40 | 62 | 21396  | 2.766 ug/L # | 61     |
| 13) Acetone                 | 2.33 | 43 | 9966   | 1.876 ug/L   | 98     |
| 18) Methyl tert-butyl Ether | 3.00 | 73 | 18509  | 1.149 ug/L # | 85     |
| 20) cis-1,2-Dichloroethene  | 4.22 | 96 | 133017 | 24.525 ug/L  | 87     |
| 34) Trichloroethene         | 6.19 | 95 | 4866   | 0.891 ug/L # | 82     |

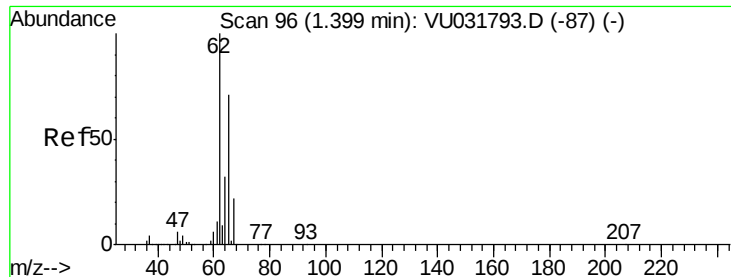
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed May 08 06:47:54 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.766 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031800.D

Acq: 07 May 2019 13:30

Instrument :

MSVOA\_U

ClientSampleId :

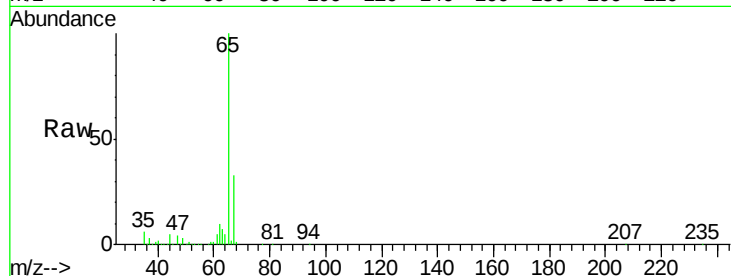
C0B46

Tot Ion: 62 Resp: 21396

Ion Ratio Lower Upper

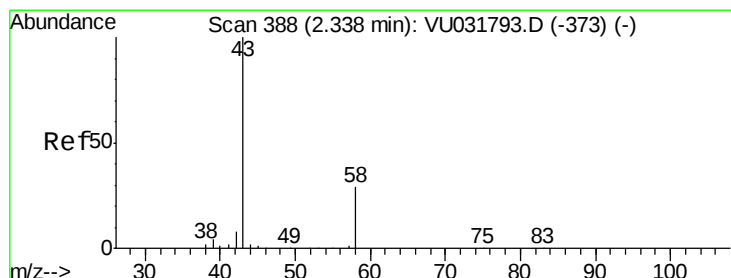
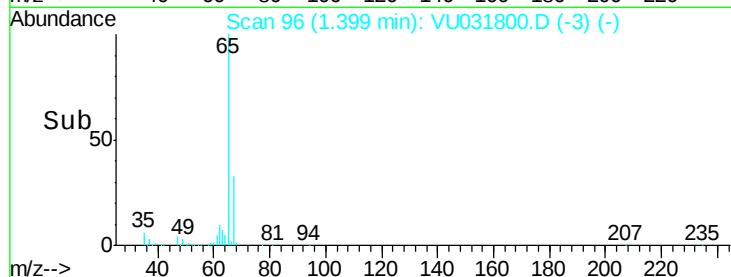
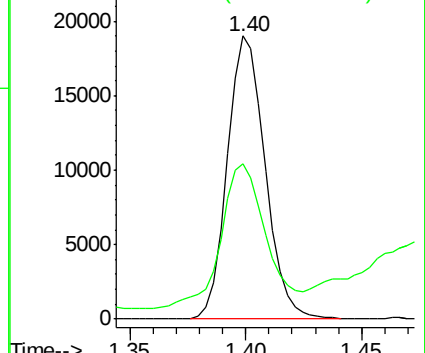
62 100

64 54.8 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#13

Acetone

Concen: 1.876 ug/L

RT: 2.33 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU031800.D

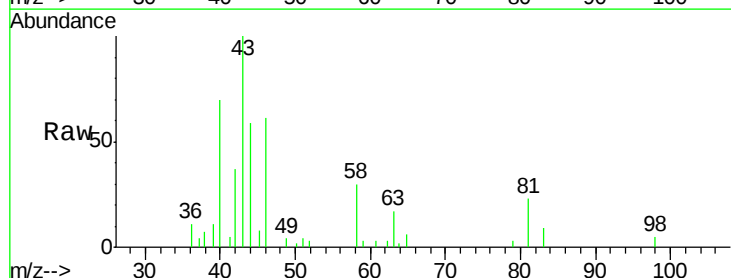
Acq: 07 May 2019 13:30

Tgt Ion: 43 Resp: 9966

Ion Ratio Lower Upper

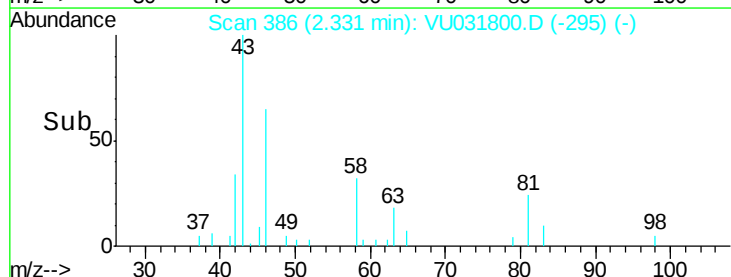
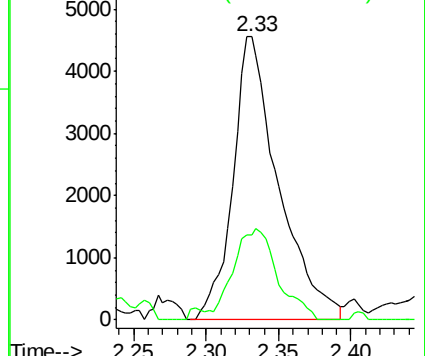
43 100

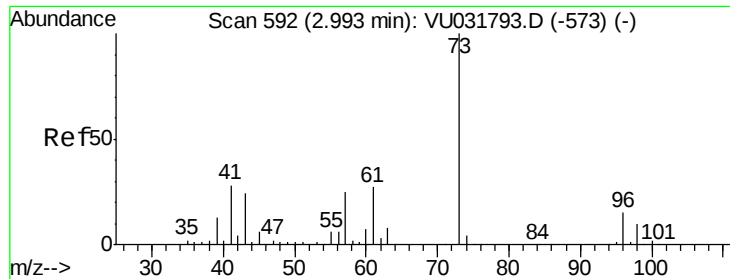
58 30.9 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

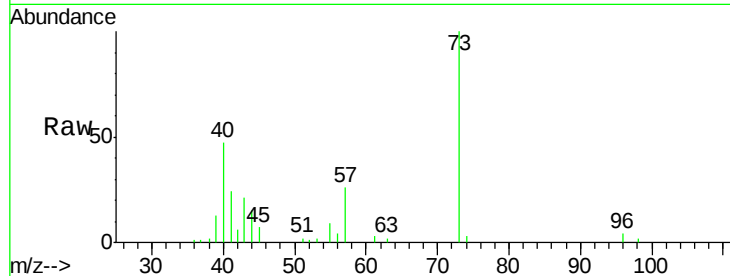




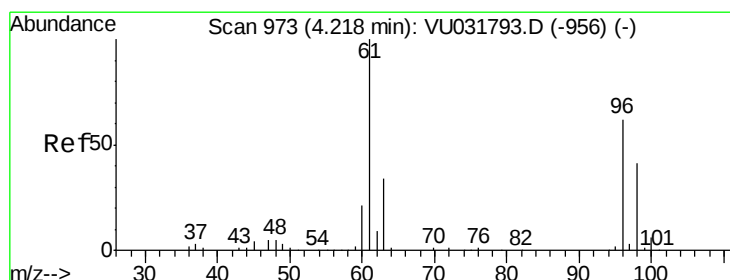
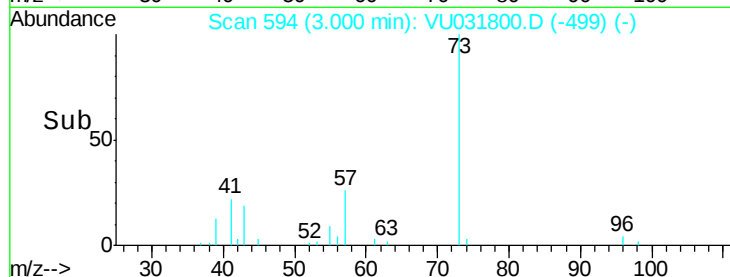
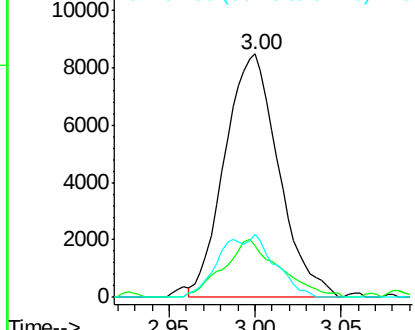
#18  
Methvl tert-butvl Ether  
Concen: 1.149 ug/L  
RT: 3.00 min Scan# 594  
Delta R.T. 0.01 min  
Lab File: VU031800.D  
Acq: 07 May 2019 13:30

Instrument :  
MSVOA\_U  
ClientSampled :  
C0B46

Tot Ion: 73 Resp: 18509  
Ion Ratio Lower Upper  
73 100  
43 24.4 17.0 25.4  
57 13.2 19.5 29.3#

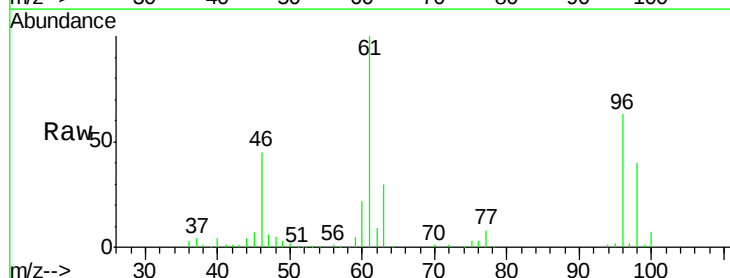


Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

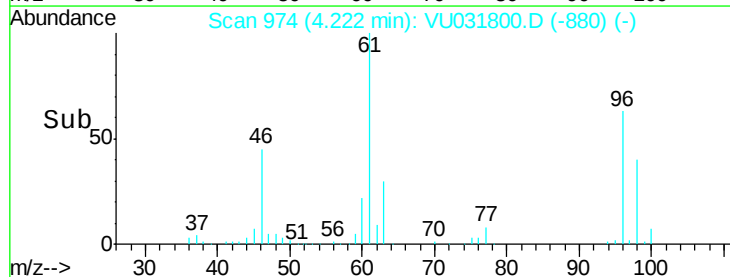
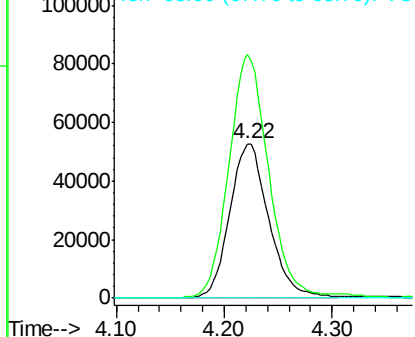


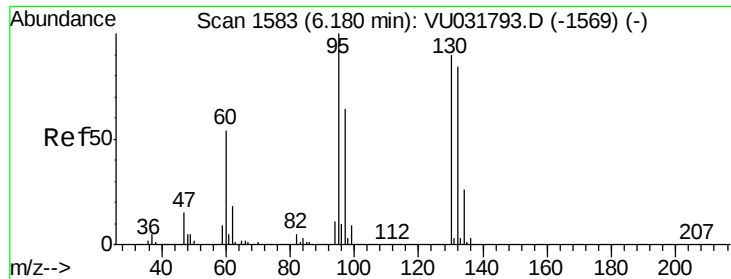
#20  
cis-1,2-Dichloroethene  
Concen: 24.525 ug/L  
RT: 4.22 min Scan# 974  
Delta R.T. 0.00 min  
Lab File: VU031800.D  
Acq: 07 May 2019 13:30

Tgt Ion: 96 Resp: 133017  
Ion Ratio Lower Upper  
96 100  
61 157.7 99.5 184.7  
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: 0.891 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU031800.D

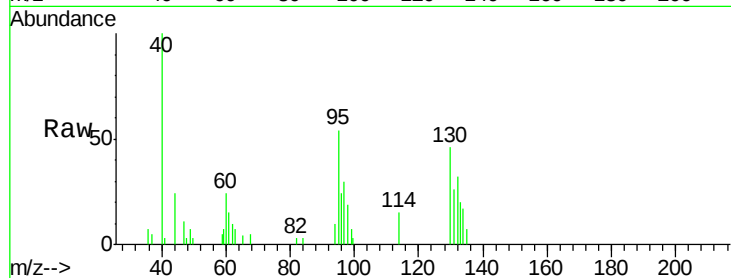
Acq: 07 May 2019 13:30

Instrument :

MSVOA\_U

ClientSampleId :

C0B46



|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 4866   |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 54.7  | 44.8  | 83.2   |
| 132      | 60.2  | 63.1  | 117.1# |
| 130      | 85.5  | 66.5  | 123.5  |

