

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\  
 Data File : VU025552.D  
 Acq On : 20 Jul 2018 19:16  
 Operator : MD/SY  
 Sample : J4097-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0AA1

Quant Time: Jul 21 03:12:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jul 21 02:53:20 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 293515   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 268497   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 122050   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 84535    | 50.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.90% |
| 7) Chloroethane-d5             | 1.68    | 69    | 70049    | 50.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.36% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 138295   | 39.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.28%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 154686   | 119.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 119.57% |
| 24) Chloroform-d               | 4.65    | 84    | 193698   | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 134061   | 54.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.62% |
| 32) Benzene-d6                 | 5.35    | 84    | 377647   | 54.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.68% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 121039   | 54.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 109.10% |
| 41) Toluene-d8                 | 7.57    | 98    | 351335   | 53.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.40% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 59244    | 52.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.54% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 112966   | 121.59   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 121.59% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 168234   | 54.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 108.42% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 140789   | 56.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 113.84% |

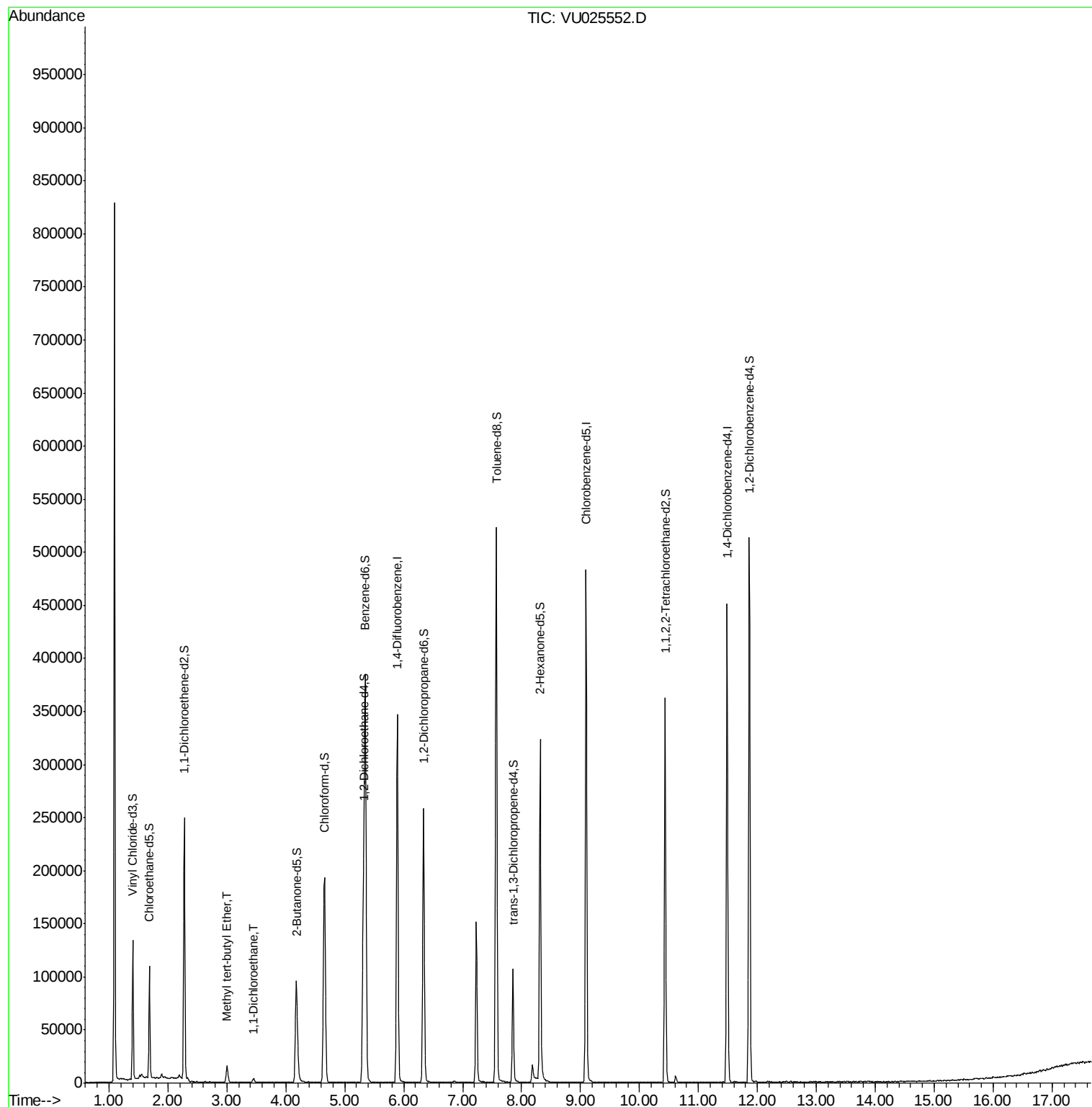
| Target Compounds            |      |    |       |           | Ovalue |
|-----------------------------|------|----|-------|-----------|--------|
| 18) Methyl tert-butyl Ether | 3.00 | 73 | 15456 | 2.49 ug/L | 94     |
| 19) 1,1-Dichloroethane      | 3.45 | 63 | 4786  | 1.32 ug/L | # 83   |

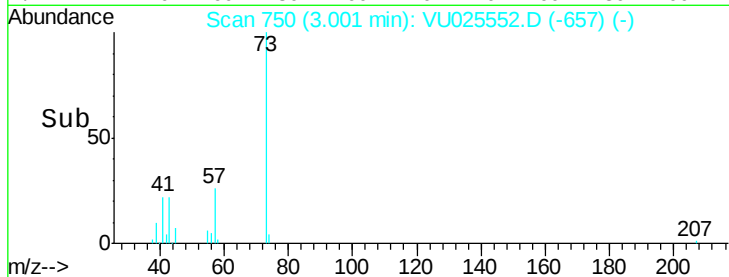
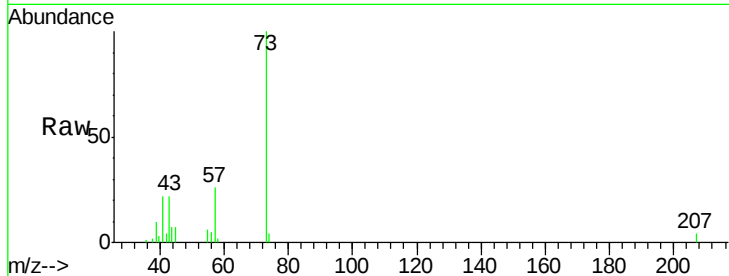
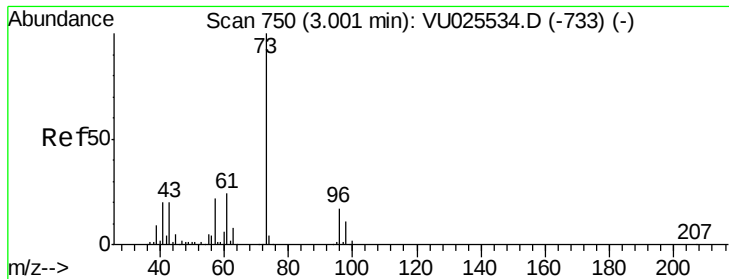
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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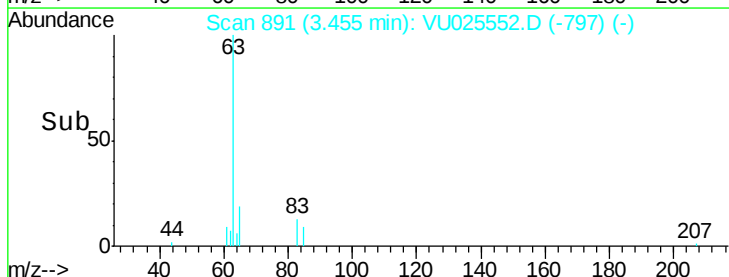
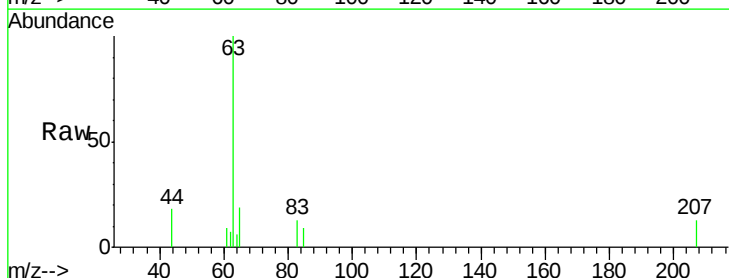
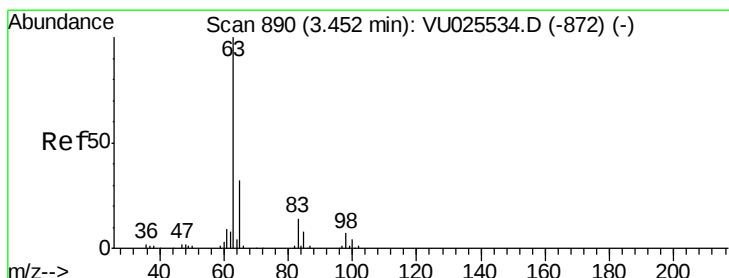
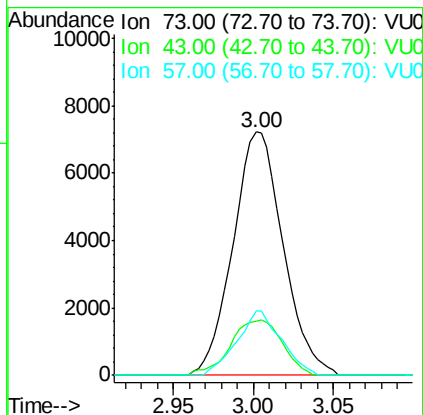




#18  
Methvl tert-butvl Ether  
Concen: 2.49 ug/L  
RT: 3.00 min Scan# 750  
Delta R.T. 0.00 min  
Lab File: VU025552.D  
Acq: 20 Jul 2018 19:16

Instrument :  
MSVOA\_U  
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| Tot Ion   | 73    | Resp  | 15456 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 73        | 100   |       |       |
| 43        | 23.5  | 16.2  | 24.2  |
| 57        | 23.3  | 17.1  | 25.7  |



#19  
1,1-Dichloroethane  
Concen: 1.32 ug/L  
RT: 3.45 min Scan# 891  
Delta R.T. 0.00 min  
Lab File: VU025552.D  
Acq: 20 Jul 2018 19:16

| Tgt Ion   | 63    | Resp  | 4786  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 18.5  | 22.0  | 41.0# |
| 83        | 12.8  | 9.6   | 17.8  |

