

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042719\  
 Data File : VU031545.D  
 Acq On : 26 Apr 2019 20:46  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05050

Quant Time: Apr 27 00:25:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 27 00:11:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 893900   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 838140   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 377228   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 307695   | 41.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.26%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 246547   | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.30%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 637175   | 42.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.54%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 665535   | 98.19    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.19%  |
| 24) Chloroform-d               | 4.64    | 84    | 595736   | 43.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 380780   | 42.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.08%  |
| 32) Benzene-d6                 | 5.34    | 84    | 1191170  | 46.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.56%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 413069   | 45.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.24%  |
| 41) Toluene-d8                 | 7.56    | 98    | 1057767  | 47.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.38%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 181870   | 46.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.58%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 424714   | 108.37   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.37% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 559895   | 46.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 374399   | 47.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.38%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 396309   | 40.318 | ug/L  | 98     |
| 3) Chloromethane               | 1.32 | 50   | 493850   | 41.525 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62   | 474889   | 42.709 | ug/L  | 100    |
| 6) Bromomethane                | 1.63 | 94   | 256240   | 43.699 | ug/L  | 99     |
| 8) Chloroethane                | 1.70 | 64   | 261564   | 43.035 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 541154   | 42.693 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 307239   | 42.879 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 308315   | 44.207 | ug/L  | 93     |
| 13) Acetone                    | 2.34 | 43   | 480316   | 62.907 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.47 | 76   | 977839   | 42.252 | ug/L  | 100    |
| 15) Methyl Acetate             | 2.62 | 43   | 501272   | 43.388 | ug/L  | 96     |
| 16) Methylene chloride         | 2.70 | 84   | 362544   | 44.048 | ug/L  | 98     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96   | 325155   | 44.743 | ug/L  | 92     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 1115411  | 48.176 | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.44 | 63   | 675926   | 44.165 | ug/L  | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96   | 368627   | 47.288 | ug/L  | 96     |
| 22) 2-Butanone                 | 4.27 | 43   | 733538   | 86.715 | ug/L  | 96     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05050

Quant Time: Apr 27 00:25:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 27 00:11:31 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 175063   | 46.216 | ug/L  | 91       |
| 25) Chloroform                  | 4.67  | 83   | 637340   | 43.548 | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 501517   | 42.188 | ug/L  | 100      |
| 29) Cyclohexane                 | 4.99  | 56   | 640370   | 48.276 | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane       | 4.91  | 97   | 526932   | 44.871 | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 434720   | 43.311 | ug/L  | 98       |
| 33) Benzene                     | 5.39  | 78   | 1437957  | 46.664 | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 356371   | 47.709 | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.41  | 83   | 543683   | 48.567 | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 394661   | 45.114 | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.75  | 83   | 476075   | 44.883 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 593401   | 51.334 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 1301135  | 96.672 | ug/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 1494224  | 48.678 | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 506106   | 48.272 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 344329   | 47.744 | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.22  | 164  | 243928   | 47.901 | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.36  | 43   | 1012386  | 93.001 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.47  | 129  | 353041   | 47.048 | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 361036   | 47.400 | ug/L  | 96       |
| 51) Chlorobenzene               | 9.12  | 112  | 869885   | 47.956 | ug/L  | 96       |
| 52) Ethylbenzene                | 9.25  | 91   | 1580825  | 49.647 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.37  | 106  | 573641   | 51.708 | ug/L  | 95       |
| 54) o-xylene                    | 9.77  | 106  | 571876   | 51.996 | ug/L  | 93       |
| 55) Styrene                     | 9.79  | 104  | 973079   | 51.785 | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 1480396  | 51.187 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 599021   | 46.808 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 482412   | 46.511 | ug/L  | 99       |
| 61) Bromoform                   | 9.95  | 173  | 255062   | 45.613 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 621502   | 49.772 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 609944   | 47.166 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 632366   | 47.650 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 133049   | 43.197 | ug/L  | 84       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 443444   | 47.414 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 396801   | 53.592 | ug/L  | 97       |
| 69) Naphthalene                 | 13.74 | 128  | 1471147  | 58.277 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 414290   | 49.148 | ug/L  | 98       |

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

