

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081619\  
 Data File : VU033814.D  
 Acq On : 15 Aug 2019 16:36  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV33

Quant Time: Aug 16 02:28:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM081619WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 16 02:25:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 431729   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 419357   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 223097   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 191352   | 49.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 98.54%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 157655   | 43.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 320235   | 49.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.66%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 214207   | 105.16   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.16% |
| 24) Chloroform-d               | 4.62    | 84    | 308106   | 49.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.56%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 190841   | 48.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 32) Benzene-d6                 | 5.32    | 84    | 610988   | 52.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.60% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 192234   | 50.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.96% |
| 41) Toluene-d8                 | 7.55    | 98    | 577333   | 53.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.34% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 96891    | 54.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 109.12% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 159583   | 113.77   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 113.77% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 268161   | 50.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.88% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 229551   | 51.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.26% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 205637 | 48.581  | ug/L 100 |
| 3) Chloromethane               | 1.32 | 50  | 211753 | 48.641  | ug/L 100 |
| 5) Vinyl chloride              | 1.39 | 62  | 236173 | 48.704  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 184913 | 50.437  | ug/L 100 |
| 8) Chloroethane                | 1.69 | 64  | 142447 | 42.405  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 299053 | 46.504  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 149410 | 48.534  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 145384 | 48.725  | ug/L 98  |
| 13) Acetone                    | 2.31 | 43  | 181766 | 90.793  | ug/L 96  |
| 14) Carbon disulfide           | 2.46 | 76  | 465688 | 49.494  | ug/L 99  |
| 15) Methyl Acetate             | 2.60 | 43  | 163115 | 49.406  | ug/L 100 |
| 16) Methylene chloride         | 2.68 | 84  | 166562 | 48.173  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 157662 | 50.688  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 469846 | 51.761  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 290341 | 48.508  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 175209 | 52.072  | ug/L 100 |
| 22) 2-Butanone                 | 4.23 | 43  | 235046 | 102.019 | ug/L 98  |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.52  | 128  | 89325    | 48.691  | uq/L  | 99       |
| 25) Chloroform                  | 4.65  | 83   | 298792   | 48.035  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.38  | 62   | 236787   | 50.210  | uq/L  | 100      |
| 29) Cyclohexane                 | 4.97  | 56   | 247193   | 55.017  | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.89  | 97   | 252342   | 49.983  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 5.11  | 117  | 227202   | 49.455  | uq/L  | 99       |
| 33) Benzene                     | 5.37  | 78   | 655538   | 51.749  | uq/L  | 100      |
| 34) Trichloroethene             | 6.16  | 95   | 171707   | 50.788  | uq/L  | 98       |
| 35) Methylcyclohexane           | 6.40  | 83   | 263990   | 53.323  | uq/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.41  | 63   | 174237   | 50.228  | uq/L  | 100      |
| 38) Bromodichloromethane        | 6.74  | 83   | 224064   | 49.889  | uq/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.25  | 75   | 275056   | 54.405  | uq/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.44  | 43   | 434288   | 106.649 | uq/L  | 100      |
| 42) Toluene                     | 7.62  | 91   | 705141   | 52.655  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.86  | 75   | 247207   | 53.205  | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.05  | 97   | 166067   | 51.005  | uq/L  | 98       |
| 46) Tetrachloroethene           | 8.21  | 164  | 139195   | 51.355  | uq/L  | 98       |
| 48) 2-Hexanone                  | 8.34  | 43   | 343178   | 107.477 | uq/L  | 99       |
| 49) Dibromochloromethane        | 8.46  | 129  | 189216   | 51.467  | uq/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.57  | 107  | 177538   | 51.212  | uq/L  | 98       |
| 51) Chlorobenzene               | 9.10  | 112  | 452279   | 51.133  | uq/L  | 99       |
| 52) Ethylbenzene                | 9.23  | 91   | 754904   | 53.205  | uq/L  | 99       |
| 53) m,p-Xylene                  | 9.36  | 106  | 290384   | 54.675  | uq/L  | 99       |
| 54) o-xylene                    | 9.76  | 106  | 286657   | 55.702  | uq/L  | 99       |
| 55) Styrene                     | 9.77  | 104  | 495198   | 56.159  | uq/L  | 100      |
| 56) Isopropylbenzene            | 10.15 | 105  | 740627   | 55.042  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.44 | 83   | 266765   | 50.621  | uq/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.48 | 75   | 212304   | 50.528  | uq/L  | 99       |
| 61) Bromoform                   | 9.94  | 173  | 141418   | 50.897  | uq/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.40 | 146  | 365609   | 52.224  | uq/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.49 | 146  | 370532   | 51.125  | uq/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.86 | 146  | 365208   | 52.040  | uq/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.64 | 75   | 59274    | 50.798  | uq/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.87 | 180  | 289977   | 53.698  | uq/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.49 | 180  | 258788   | 58.525  | uq/L  | 100      |
| 69) Naphthalene                 | 13.73 | 128  | 783858   | 64.227  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.97 | 180  | 270873   | 59.022  | uq/L  | 99       |

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

