

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV082418\  
 Data File : VV007176.D  
 Acq On : 24 Aug 2018 18:08  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05070

Quant Time: Aug 25 00:01:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082418WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 24 23:56:25 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 708226   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 681814   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 338850   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 231085   | 46.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.90%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 189947   | 47.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.18%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 413918   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.66%  |
| 21) 2-Butanone-d5              | 3.95    | 46    | 350202   | 94.46    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.46%  |
| 24) Chloroform-d               | 4.40    | 84    | 458545   | 47.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.98%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 282463   | 48.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.74%  |
| 32) Benzene-d6                 | 5.10    | 84    | 958117   | 49.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 304949   | 47.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.96%  |
| 41) Toluene-d8                 | 7.36    | 98    | 877275   | 51.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.90% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 137082   | 49.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.70%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 198726   | 99.09    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.09%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 414264   | 48.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.86%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 330956   | 46.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.60%  |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 282173 | 49.811 | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 314594 | 46.042 | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 282972 | 47.522 | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 94304  | 48.883 | ug/L 96  |
| 8) Chloroethane                | 1.60 | 64  | 168280 | 47.613 | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 373824 | 49.410 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 229378 | 49.997 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 212650 | 48.537 | ug/L 93  |
| 13) Acetone                    | 2.20 | 43  | 256632 | 93.759 | ug/L 98  |
| 14) Carbon disulfide           | 2.32 | 76  | 641315 | 47.766 | ug/L 100 |
| 15) Methyl Acetate             | 2.47 | 43  | 233547 | 47.860 | ug/L 99  |
| 16) Methylene chloride         | 2.54 | 84  | 240690 | 48.454 | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 230567 | 48.819 | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 682352 | 48.372 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 463926 | 48.185 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.97 | 96  | 270964 | 49.035 | ug/L 96  |
| 22) 2-Butanone                 | 4.04 | 43  | 413377 | 97.020 | ug/L 98  |

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 Sample : VSTDCCC050  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05070

Quant Time: Aug 25 00:01:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082418WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 24 23:56:25 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 137537   | 48.689  | ug/L  | 99       |
| 25) Chloroform                 | 4.43  | 83   | 463892   | 49.094  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 348890   | 49.920  | ug/L  | 98       |
| 29) Cyclohexane                | 4.73  | 56   | 399332   | 51.603  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 388015   | 49.642  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 4.88  | 117  | 336312   | 50.109  | ug/L  | 100      |
| 33) Benzene                    | 5.15  | 78   | 1071555  | 50.741  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 255898   | 49.831  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.18  | 83   | 432739   | 52.990  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 279359   | 49.726  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.56  | 83   | 336309   | 49.225  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.08  | 75   | 404513   | 51.661  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 692758   | 105.173 | ug/L  | 98       |
| 42) Toluene                    | 7.43  | 91   | 1083370  | 52.919  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 369734   | 50.817  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 261913   | 50.343  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.02  | 164  | 213316   | 50.371  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 559276   | 108.447 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.30  | 129  | 269105   | 50.430  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 263205   | 50.353  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.93  | 112  | 703763   | 50.840  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 1125424  | 52.937  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.19  | 106  | 430618   | 53.345  | ug/L  | 99       |
| 54) o-xylene                   | 9.59  | 106  | 413455   | 53.215  | ug/L  | 98       |
| 55) Styrene                    | 9.61  | 104  | 744128   | 55.816  | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.98  | 105  | 1076827  | 54.185  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 425834   | 49.848  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 338122   | 49.228  | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 193648   | 47.312  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 516129   | 49.990  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 553945   | 49.865  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 551600   | 49.803  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 73732    | 47.121  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 401841   | 53.349  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 314200   | 55.932  | ug/L  | 99       |
| 69) Naphthalene                | 13.56 | 128  | 817372   | 53.485  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 343713   | 57.016  | ug/L  | 100      |

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

