

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120519\  
 Data File : VU035987.D  
 Acq On : 05 Dec 2019 11:47  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

Quant Time: Dec 06 00:55:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Dec 05 03:54:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 315705   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 329133   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 163142   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 147947   | 4.11     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.20% |
| 7) Chloroethane-d5             | 1.93   | 69    | 124281   | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.20% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 222526   | 4.31     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.20% |
| 20) 2-Butanone-d5              | 4.70   | 46    | 297821   | 46.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.46% |
| 24) Chloroform-d               | 5.11   | 84    | 238253   | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 119844   | 4.58     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.60% |
| 32) Benzene-d6                 | 5.77   | 84    | 462048   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 143401   | 4.55     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.00% |
| 41) Toluene-d8                 | 7.93   | 98    | 431463   | 4.81     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.20% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 57839    | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.80% |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 243871   | 48.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 127758   | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 151486   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 164790 | 5.041  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 168977 | 4.526  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 181150 | 4.804  | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 109269 | 5.053  | ug/L 99  |
| 8) Chloroethane                | 1.95 | 64  | 102501 | 4.383  | ug/L 97  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 224189 | 5.063  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 126752 | 5.224  | ug/L 95  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 115505 | 5.105  | ug/L 89  |
| 13) Acetone                    | 2.68 | 43  | 230982 | 40.089 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 379321 | 4.786  | ug/L 98  |
| 15) Methyl Acetate             | 3.00 | 43  | 46530  | 4.506  | ug/L 99  |
| 16) Methylene chloride         | 3.08 | 84  | 139807 | 3.989  | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 3.42 | 73  | 252523 | 4.764  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 117533 | 4.906  | ug/L 95  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 226835 | 4.843  | ug/L 98  |
| 21) 2-Butanone                 | 4.77 | 43  | 336192 | 45.453 | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 124496 | 4.919  | ug/L 93  |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00522

Quant Time: Dec 06 00:55:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Dec 05 03:54:31 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 62578    | 5.401  | ug/L  | 87       |
| 25) Chloroform                  | 5.13  | 83   | 236478   | 5.004  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 148363   | 4.912  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 198141   | 4.978  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.43  | 56   | 176499   | 4.490  | ug/L  | 97       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 179440   | 5.085  | ug/L  | 98       |
| 33) Benzene                     | 5.82  | 78   | 515346   | 4.979  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 130037   | 4.968  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.80  | 83   | 184459   | 4.700  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 131966   | 4.709  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 163927   | 4.887  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 170118   | 4.575  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.84  | 43   | 754410   | 45.800 | ug/L  | 98       |
| 42) Toluene                     | 8.00  | 91   | 558714   | 5.168  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 152716   | 4.803  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 98706    | 5.173  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.58  | 164  | 112046   | 5.267  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.73  | 43   | 583591   | 47.964 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.84  | 129  | 117161   | 5.036  | ug/L  | 95       |
| 50) 1,2-Dibromoethane           | 8.96  | 107  | 92278    | 4.984  | ug/L  | 92       |
| 51) Chlorobenzene               | 9.47  | 112  | 348697   | 5.165  | ug/L  | 97       |
| 52) Ethylbenzene                | 9.60  | 91   | 537609   | 4.919  | ug/L  | 97       |
| 53) m,p-Xylene                  | 9.72  | 106  | 215203   | 5.216  | ug/L  | 97       |
| 54) o-Xylene                    | 10.13 | 106  | 201909   | 5.215  | ug/L  | 93       |
| 55) Styrene                     | 10.14 | 104  | 348066   | 5.346  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.51 | 105  | 523246   | 5.156  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 124509   | 4.863  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 88971    | 4.884  | ug/L  | 99       |
| 61) Bromoform                   | 10.32 | 173  | 71173    | 4.723  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 265912   | 4.901  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 265082   | 4.922  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 253960   | 4.897  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 16369    | 4.052  | ug/L  | 83       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 182503   | 4.928  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 94445    | 4.759  | ug/L  | 97       |
| 69) Naphthalene                 | 14.11 | 128  | 85245    | 3.772  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 91742    | 4.668  | ug/L  | 96       |

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

