

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121919\  
 Data File : VU036279.D  
 Acq On : 19 Dec 2019 09:20  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00521

Quant Time: Dec 20 03:12:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Dec 19 14:35:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 271791   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 286263   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 152609   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 132729   | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 111.00% |
| 7) Chloroethane-d5             | 1.93   | 69    | 113451   | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.80% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 180667   | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 104.60% |
| 20) 2-Butanone-d5              | 4.69   | 46    | 223943   | 49.94    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.88%  |
| 24) Chloroform-d               | 5.11   | 84    | 190081   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 96521    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.60%  |
| 32) Benzene-d6                 | 5.77   | 84    | 356533   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 108585   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 343577   | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 47652    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 102.20% |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 194995   | 54.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 103047   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 128594   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.00%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 145572   | 4.799  | ug/L  | 98     |
| 3) Chloromethane               | 1.54 | 50   | 152960   | 4.019  | ug/L  | 98     |
| 5) Vinyl chloride              | 1.62 | 62   | 169819   | 4.702  | ug/L  | 98     |
| 6) Bromomethane                | 1.87 | 94   | 105502   | 5.846  | ug/L  | 100    |
| 8) Chloroethane                | 1.95 | 64   | 102910   | 4.772  | ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 223905   | 4.920  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 109058   | 5.001  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.61 | 96   | 100956   | 5.007  | ug/L  | 92     |
| 13) Acetone                    | 2.68 | 43   | 177734   | 45.482 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 316531   | 4.679  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.99 | 43   | 42128    | 5.336  | ug/L  | 99     |
| 16) Methylene chloride         | 3.08 | 84   | 122270   | 4.125  | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.41 | 73   | 215640   | 4.990  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96   | 104725   | 4.959  | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 191763   | 4.919  | ug/L  | 100    |
| 21) 2-Butanone                 | 4.77 | 43   | 273761   | 52.426 | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene     | 4.71 | 96   | 107638   | 4.752  | ug/L  | 96     |

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

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00521

Quant Time: Dec 20 03:12:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Dec 19 14:35:19 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 55233    | 5.039  | ug/L  | 96       |
| 25) Chloroform                  | 5.13  | 83   | 204597   | 4.851  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 127998   | 5.117  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 177901   | 5.048  | ug/L  | 99       |
| 30) Cyclohexane                 | 5.43  | 56   | 140139   | 4.674  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 164451   | 5.118  | ug/L  | 100      |
| 33) Benzene                     | 5.81  | 78   | 435559   | 4.951  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 108805   | 4.797  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.80  | 83   | 155490   | 4.822  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 111623   | 4.973  | ug/L  | 98       |
| 38) Bromodichloromethane        | 7.14  | 83   | 145054   | 4.966  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 154445   | 5.051  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.84  | 43   | 640899   | 54.590 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 483650   | 5.129  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 133568   | 5.200  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 87436    | 5.199  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.58  | 164  | 100112   | 4.887  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.72  | 43   | 498079   | 56.848 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.84  | 129  | 110391   | 5.311  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 82564    | 5.147  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 300735   | 4.829  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.60  | 91   | 462860   | 4.887  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 182484   | 5.001  | ug/L  | 100      |
| 54) o-Xylene                    | 10.13 | 106  | 171709   | 4.879  | ug/L  | 95       |
| 55) Styrene                     | 10.14 | 104  | 309899   | 4.975  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.51 | 105  | 453103   | 5.013  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 112079   | 5.234  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 83524    | 5.599  | ug/L  | 96       |
| 61) Bromoform                   | 10.32 | 173  | 67764    | 5.115  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 251589   | 4.887  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 254262   | 4.979  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 241004   | 4.913  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.01 | 75   | 16366    | 5.023  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 188380   | 4.883  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 123004   | 4.853  | ug/L  | 100      |
| 69) Naphthalene                 | 14.10 | 128  | 145453   | 4.511  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 118392   | 4.830  | ug/L  | 99       |

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

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Sample    : VSTDCCC005  
Misc      : 25.0mL/MSVOA U/WATER  
ALS Vial  : 2    Sample Multiplier: 1
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MSVOA\_U  
**ClientSampleId :**  
VSTD00521

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