

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\  
 Data File : VU037070.D  
 Acq On : 05 Mar 2020 05:09  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05047

Quant Time: Mar 05 05:38:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 05 02:52:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 273382   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 259871   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 108405   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 98228    | 42.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.58%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 90799    | 47.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 176838   | 46.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.00%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 151962   | 98.68    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.68%  |
| 24) Chloroform-d               | 5.10    | 84    | 177668   | 50.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.36% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 116860   | 49.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.52%  |
| 32) Benzene-d6                 | 5.76    | 84    | 373499   | 49.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 122563   | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.68% |
| 41) Toluene-d8                 | 7.92    | 98    | 339698   | 48.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.44%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 50009    | 44.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.40%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 109939   | 92.35    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.35%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 175212   | 51.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.08% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 106626   | 50.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.64% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 113307   | 48.863 | ug/L  | 98     |
| 3) Chloromethane               | 1.54 | 50   | 127097   | 47.642 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.62 | 62   | 133705   | 48.589 | ug/L  | 97     |
| 6) Bromomethane                | 1.85 | 94   | 58055    | 41.120 | ug/L  | 100    |
| 8) Chloroethane                | 1.94 | 64   | 83754    | 50.775 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 147054   | 50.388 | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 86904    | 49.778 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 86255    | 48.848 | ug/L  | 95     |
| 13) Acetone                    | 2.66 | 43   | 110561   | 69.798 | ug/L  | 98     |
| 14) Carbon disulfide           | 2.82 | 76   | 250178   | 44.780 | ug/L  | 100    |
| 15) Methyl Acetate             | 2.98 | 43   | 123542   | 51.169 | ug/L  | 100    |
| 16) Methylene chloride         | 3.08 | 84   | 110173   | 51.155 | ug/L  | 98     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96   | 93166    | 49.116 | ug/L  | 99     |
| 18) Methyl tert-butyl Ether    | 3.40 | 73   | 315522   | 51.171 | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.91 | 63   | 190477   | 51.678 | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96   | 107559   | 50.711 | ug/L  | 97     |
| 22) 2-Butanone                 | 4.75 | 43   | 177186   | 92.762 | ug/L  | 99     |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|---------|--------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 50584    | 52.662  | ug/L   | 99       |
| 25) Chloroform                  | 5.13  | 83   | 185898   | 52.272  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 154550   | 53.380  | ug/L   | 99       |
| 29) Cyclohexane                 | 5.42  | 56   | 164986   | 47.843  | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane       | 5.35  | 97   | 145998   | 52.400  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 116127   | 53.175  | ug/L   | 98       |
| 33) Benzene                     | 5.81  | 78   | 443764   | 54.053  | ug/L   | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 99732    | 49.426  | ug/L   | 99       |
| 35) Methylcyclohexane           | 6.79  | 83   | 167007   | 47.736  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 117124   | 52.985  | ug/L   | 99       |
| 38) Bromodichloromethane        | 7.13  | 83   | 136916   | 52.473  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.63  | 75   | 166649   | 48.941  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 345020   | 105.925 | ug/L   | 99       |
| 42) Toluene                     | 7.99  | 91   | 451854   | 51.661  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 143253   | 48.497  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 8.42  | 97   | 104870   | 53.350  | ug/L   | 99       |
| 46) Tetrachloroethene           | 8.57  | 164  | 64072    | 48.201  | ug/L   | 97       |
| 48) 2-Hexanone                  | 8.71  | 43   | 265395   | 102.104 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.83  | 129  | 97729    | 52.380  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 106122   | 51.627  | ug/L # | 98       |
| 51) Chlorobenzene               | 9.47  | 112  | 289873   | 55.933  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 481995   | 50.834  | ug/L   | 100      |
| 53) m,p-Xylene                  | 9.71  | 106  | 178686   | 51.375  | ug/L   | 99       |
| 54) o-xylene                    | 10.12 | 106  | 179742   | 51.815  | ug/L   | 99       |
| 55) Styrene                     | 10.13 | 104  | 292311   | 51.548  | ug/L   | 97       |
| 56) Isopropylbenzene            | 10.50 | 105  | 456597   | 51.247  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 192047   | 54.648  | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 153267   | 53.898  | ug/L   | 98       |
| 61) Bromoform                   | 10.31 | 173  | 67115    | 54.760  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 182449   | 51.881  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 190882   | 54.940  | ug/L   | 100      |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 195874   | 55.784  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 36491    | 52.384  | ug/L   | 99       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 114084   | 51.110  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 80912    | 48.382  | ug/L   | 99       |
| 69) Naphthalene                 | 14.12 | 128  | 122873   | 41.621  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 83040    | 49.689  | ug/L   | 98       |

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

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