

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV092021\  
 Data File : VV022245.D  
 Acq On : 20 Sep 2021 20:15  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050341

Manual Integrations  
 APPROVED

MMDadoda

Quant Time: Sep 21 04:46:50 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 21 04:41:26 2021  
 Response via : Initial Calibration

9/21/2021 1:51:09 PM

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.619   | 114   | 319032   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853   | 117   | 307146   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.252  | 152   | 157041   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 109743   | 49.672   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 99.340%  |
| 7) Chloroethane-d5            | 1.564   | 69    | 86499    | 50.135   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.260% |
| 11) 1,1-Dichloroethene-d2     | 2.104   | 63    | 194314   | 53.181   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 106.360% |
| 21) 2-Butanone-d5             | 3.902   | 46    | 172809   | 114.050  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 114.050% |
| 24) Chloroform-d              | 4.349   | 84    | 202394   | 50.240   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.480% |
| 26) 1,2-Dichloroethane-d4     | 5.034   | 65    | 118210   | 49.817   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.640%  |
| 32) Benzene-d6                | 5.050   | 84    | 408025   | 48.978   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.960%  |
| 36) 1,2-Dichloropropane-d6    | 6.072   | 67    | 125843   | 48.033   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 96.060%  |
| 41) Toluene-d8                | 7.317   | 98    | 373799   | 47.532   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.060%  |
| 43) trans-1,3-Dichloroprop... | 7.625   | 79    | 56255    | 45.113   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.220%  |
| 47) 2-Hexanone-d5             | 8.091   | 63    | 113841   | 113.245  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 113.240% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 168347   | 50.172   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.340% |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 143565   | 46.503   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.000%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 78406    | 35.753   | ug/L   | 99       |
| 3) Chloromethane              | 1.240   | 50    | 87535    | 37.696   | ug/L   | 97       |
| 5) Vinyl chloride             | 1.307   | 62    | 95896    | 40.972   | ug/L   | 98       |
| 6) Bromomethane               | 1.519   | 94    | 62749    | 44.592   | ug/L   | 99       |
| 8) Chloroethane               | 1.584   | 64    | 65459    | 44.708   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.751   | 101   | 153825   | 46.152   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 94859    | 48.523   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 88174    | 47.915   | ug/L   | 97       |
| 13) Acetone                   | 2.198   | 43    | 124221m  | 97.847   | ug/L   |          |
| 14) Carbon disulfide          | 2.291   | 76    | 204646   | 36.855   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.439   | 43    | 131220   | 53.075   | ug/L   | 99       |
| 16) Methylene chloride        | 2.506   | 84    | 120160   | 48.736   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.760   | 96    | 98680    | 44.350   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 2.770   | 73    | 347572   | 49.158   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.191   | 63    | 197247   | 49.773   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.912   | 96    | 116513   | 47.048   | ug/L   | 97       |
| 22) 2-Butanone                | 3.985   | 43    | 182401   | 102.212  | ug/L   | 100      |
| 23) Bromochloromethane        | 4.249   | 128   | 64340    | 48.785   | ug/L   | 99       |
| 25) Chloroform                | 4.378   | 83    | 205313   | 48.942   | ug/L   | 98       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.133  | 62   | 146657   | 52.153  | ug/L  | 97       |
| 29) Cyclohexane               | 4.677  | 56   | 142549   | 41.518  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.609  | 97   | 174196   | 47.719  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.828  | 117  | 145653   | 46.441  | ug/L  | 99       |
| 33) Benzene                   | 5.101  | 78   | 427487   | 47.838  | ug/L  | 100      |
| 34) Trichloroethene           | 5.915  | 95   | 115653   | 45.690  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.133  | 83   | 153720   | 41.541  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.175  | 63   | 114037   | 49.230  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.513  | 83   | 147212   | 49.695  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.027  | 75   | 167166   | 46.742  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.230  | 43   | 349946   | 111.434 | ug/L  | 99       |
| 42) Toluene                   | 7.390  | 91   | 465789   | 48.295  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.654  | 75   | 162001   | 48.670  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.841  | 97   | 119608   | 50.747  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.976  | 164  | 86826    | 44.114  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.143  | 43   | 274156   | 112.516 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.249  | 129  | 124901   | 49.507  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.355  | 107  | 124779   | 49.329  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.882  | 112  | 303921   | 46.869  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.014  | 91   | 486733   | 46.619  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.140  | 106  | 188819   | 46.529  | ug/L  | 99       |
| 54) o-Xylene                  | 9.545  | 106  | 189630   | 47.228  | ug/L  | 99       |
| 55) Styrene                   | 9.561  | 104  | 332136   | 48.470  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.242 | 83   | 179701   | 52.622  | ug/L  | 99       |
| 59) Bromoform                 | 9.734  | 173  | 86544    | 51.887  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.934  | 105  | 497507   | 50.418  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.275 | 75   | 152325   | 55.966  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.541 | 105  | 403756   | 48.738  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.918 | 105  | 419249   | 49.790  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.185 | 146  | 237369   | 47.378  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.275 | 146  | 237613   | 46.348  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.644 | 146  | 246241   | 49.498  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.429 | 75   | 37102    | 56.561  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.647 | 180  | 168713   | 45.035  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.265 | 180  | 143049   | 43.407  | ug/L  | 99       |
| 71) Naphthalene               | 13.503 | 128  | 489902   | 51.678  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.744 | 180  | 154361   | 48.022  | ug/L  | 99       |

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

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