

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090322\  
 Data File : VU050628.D  
 Acq On : 03 Sep 2022 21:29  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050189

Quant Time: Sep 05 01:11:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM090222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 05 01:05:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 306881   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 304264   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 141917   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 91466    | 34.847   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 69.700%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 75767    | 42.686   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 85.380%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 186211   | 40.146   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.300%  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 210206   | 109.461  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 109.460% |
| 24) Chloroform-d              | 5.063   | 84    | 244540   | 49.157   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.320%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 154898   | 50.954   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.900% |
| 32) Benzene-d6                | 5.726   | 84    | 481270   | 47.864   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.720%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 167429   | 50.717   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.440% |
| 41) Toluene-d8                | 7.896   | 98    | 414957   | 48.259   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.520%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 58093    | 42.530   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.060%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 101521   | 122.258  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 122.260% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 251903   | 50.424   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.840% |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 154302   | 46.446   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.900%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 107974   | 36.631   | ug/L   | 97       |
| 3) Chloromethane              | 1.517   | 50    | 133729   | 41.988   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.601   | 62    | 122547   | 40.839   | ug/L   | 98       |
| 6) Bromomethane               | 1.845   | 94    | 64457    | 42.593   | ug/L   | 99       |
| 8) Chloroethane               | 1.925   | 64    | 72090    | 45.232   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.134   | 101   | 144489   | 39.522   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 88611    | 36.948   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 98511    | 42.275   | ug/L   | 96       |
| 13) Acetone                   | 2.629   | 43    | 139038   | 95.979   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.790   | 76    | 290706   | 42.070   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.948   | 43    | 156531   | 51.093   | ug/L   | 99       |
| 16) Methylene chloride        | 3.041   | 84    | 157516   | 51.506   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 116330   | 47.078   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 413258   | 53.940   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 237668   | 49.853   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 138675   | 49.739   | ug/L   | 100      |
| 22) 2-Butanone                | 4.703   | 43    | 234633   | 103.557  | ug/L   | 98       |
| 23) Bromochloromethane        | 4.973   | 128   | 73970    | 51.343   | ug/L   | 98       |
| 25) Chloroform                | 5.086   | 83    | 245081   | 50.459   | ug/L   | 100      |

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 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 05 01:05:15 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 189090   | 52.526  | ug/L  | 100      |
| 29) Cyclohexane               | 5.388  | 56   | 166124   | 40.768  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 186775   | 45.576  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.523  | 117  | 145497   | 43.334  | ug/L  | 99       |
| 33) Benzene                   | 5.774  | 78   | 553140   | 49.954  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 123165   | 47.736  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 152530   | 37.185  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 151521   | 51.804  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.105  | 83   | 178314   | 51.826  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 173612   | 43.852  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 425562   | 106.770 | ug/L  | 100      |
| 42) Toluene                   | 7.970  | 91   | 557653   | 49.579  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 159061   | 42.821  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 142983   | 50.889  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.552  | 164  | 80525    | 42.730  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.684  | 43   | 376484   | 101.212 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.809  | 129  | 136789   | 51.043  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 151513   | 53.024  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 339703   | 48.663  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.571  | 91   | 538073   | 48.425  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.693  | 106  | 203369   | 47.772  | ug/L  | 98       |
| 54) o-Xylene                  | 10.099 | 106  | 213555   | 50.388  | ug/L  | 99       |
| 55) Styrene                   | 10.115 | 104  | 361842   | 51.888  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 251578   | 50.268  | ug/L  | 99       |
| 59) Bromoform                 | 10.292 | 173  | 99635    | 47.056  | ug/L  | 97       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 198199   | 47.598  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.484 | 105  | 492671   | 43.857  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 426625   | 44.423  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 419915   | 45.533  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 226091   | 45.742  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 228040   | 46.675  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 245263   | 46.591  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 50469    | 45.897  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 151339   | 42.191  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 133616   | 43.868  | ug/L  | 99       |
| 71) Naphthalene               | 14.086 | 128  | 538225   | 49.840  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 154041   | 46.702  | ug/L  | 100      |

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

