

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW110122\  
 Data File : VV028828.D  
 Acq On : 01 Nov 2022 20:28  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050367

Quant Time: Nov 02 05:15:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM103122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 02 05:10:28 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.612   | 114   | 386319   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847   | 117   | 364153   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.242  | 152   | 182578   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 164547   | 44.931   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 89.860%  |
| 7) Chloroethane-d5            | 1.561   | 69    | 141992   | 45.355   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.720%  |
| 11) 1,1-Dichloroethene-d2     | 2.108   | 63    | 324757   | 46.618   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.240%  |
| 21) 2-Butanone-d5             | 3.870   | 46    | 264587   | 99.250   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 99.250%  |
| 24) Chloroform-d              | 4.342   | 84    | 260186   | 47.106   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.220%  |
| 26) 1,2-Dichloroethane-d4     | 5.027   | 65    | 175338   | 47.999   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.000%  |
| 32) Benzene-d6                | 5.047   | 84    | 523246   | 46.028   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.060%  |
| 36) 1,2-Dichloropropane-d6    | 6.066   | 67    | 177761   | 45.547   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 91.100%  |
| 41) Toluene-d8                | 7.310   | 98    | 455720   | 45.600   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.200%  |
| 43) trans-1,3-Dichloroprop... | 7.616   | 79    | 65213    | 43.505   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 87.020%  |
| 47) 2-Hexanone-d5             | 8.082   | 63    | 167552   | 94.999   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.000%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.207  | 84    | 243736   | 47.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.720%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.615  | 152   | 161638   | 44.851   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 89.700%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.127   | 85    | 141098   | 49.663   | ug/L   | 99       |
| 3) Chloromethane              | 1.240   | 50    | 249490   | 52.764   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.310   | 62    | 224776   | 51.752   | ug/L   | 98       |
| 6) Bromomethane               | 1.516   | 94    | 126686   | 52.864   | ug/L   | 94       |
| 8) Chloroethane               | 1.580   | 64    | 145643   | 52.220   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.748   | 101   | 265218   | 51.348   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 146092   | 49.921   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.114   | 96    | 143238   | 49.712   | ug/L   | 96       |
| 13) Acetone                   | 2.159   | 43    | 233237   | 90.362   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.291   | 76    | 381097   | 47.417   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.423   | 43    | 228093   | 52.652   | ug/L   | 99       |
| 16) Methylene chloride        | 2.503   | 84    | 162872   | 46.588   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.754   | 96    | 141270   | 50.688   | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 2.764   | 73    | 488428   | 50.731   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.185   | 63    | 311239   | 51.252   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.905   | 96    | 159903   | 51.999   | ug/L # | 98       |
| 22) 2-Butanone                | 3.953   | 43    | 312226   | 98.465   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.240   | 128   | 75692    | 51.714   | ug/L   | 94       |
| 25) Chloroform                | 4.368   | 83    | 287845   | 51.026   | ug/L   | 100      |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050367

Quant Time: Nov 02 05:15:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM103122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 02 05:10:28 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.124  | 62   | 242860   | 52.717  | ug/L  | 99       |
| 29) Cyclohexane               | 4.670  | 56   | 289081   | 49.751  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.603  | 97   | 228711   | 49.827  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 4.825  | 117  | 180458   | 49.206  | ug/L  | 98       |
| 33) Benzene                   | 5.095  | 78   | 656940   | 51.243  | ug/L  | 100      |
| 34) Trichloroethene           | 5.908  | 95   | 151975   | 50.691  | ug/L  | 96       |
| 35) Methylcyclohexane         | 6.127  | 83   | 262958   | 49.452  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.169  | 63   | 186216   | 52.498  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.503  | 83   | 204519   | 50.752  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.021  | 75   | 237519   | 49.032  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 616151   | 104.448 | ug/L  | 99       |
| 42) Toluene                   | 7.381  | 91   | 664550   | 50.839  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene | 7.645  | 75   | 218397   | 48.754  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.831  | 97   | 154293   | 50.703  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.969  | 164  | 101902   | 49.042  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.133  | 43   | 472922   | 105.261 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.239  | 129  | 142073   | 50.435  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.345  | 107  | 155716   | 50.785  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.876  | 112  | 398501   | 49.787  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.005  | 91   | 721040   | 51.276  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.133  | 106  | 259599   | 50.617  | ug/L  | 97       |
| 54) o-Xylene                  | 9.535  | 106  | 261850   | 51.139  | ug/L  | 98       |
| 55) Styrene                   | 9.554  | 104  | 462544   | 52.677  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.233 | 83   | 277161   | 51.604  | ug/L  | 99       |
| 59) Bromoform                 | 9.725  | 173  | 87890    | 48.495  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.924  | 105  | 694217   | 50.041  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.265 | 75   | 220229   | 50.764  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.532 | 105  | 592768   | 51.181  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.905 | 105  | 585701   | 50.833  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.172 | 146  | 292181   | 49.925  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.265 | 146  | 293751   | 49.262  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.635 | 146  | 298969   | 50.217  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.419 | 75   | 52340    | 47.356  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.635 | 180  | 199082   | 47.438  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.252 | 180  | 171462   | 47.743  | ug/L  | 98       |
| 71) Naphthalene               | 13.490 | 128  | 536416   | 45.874  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.731 | 180  | 178453   | 49.092  | ug/L  | 99       |

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

