

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102522\  
 Data File : VU051494.D  
 Acq On : 25 Oct 2022 18:28  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050117

Quant Time: Oct 27 01:31:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 27 01:27:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 564469   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 553747   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 285510   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 170187   | 37.997   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 76.000%  |
| 7) Chloroethane-d5            | 1.890   | 69    | 144386   | 39.130   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 78.260%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 310342   | 40.704   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 81.400%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 292888   | 92.766   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 92.770%  |
| 24) Chloroform-d              | 5.060   | 84    | 353703   | 42.995   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.980%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 217401   | 42.507   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.020%  |
| 32) Benzene-d6                | 5.723   | 84    | 707549   | 47.183   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.360%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 235758   | 47.875   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.740%  |
| 41) Toluene-d8                | 7.896   | 98    | 660057   | 48.290   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.580%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 100894   | 48.117   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.240%  |
| 47) 2-Hexanone-d5             | 8.633   | 63    | 214971   | 99.389   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 99.390%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 394964   | 46.169   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 92.340%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 252889   | 47.316   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.640%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 202980   | 41.146   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 283785   | 45.007   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.601   | 62    | 274588   | 44.002   | ug/L   | 99       |
| 6) Bromomethane               | 1.829   | 94    | 130391   | 40.201   | ug/L   | 99       |
| 8) Chloroethane               | 1.913   | 64    | 163681   | 43.890   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.125   | 101   | 297398   | 41.192   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.572   | 101   | 183948   | 41.685   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.572   | 96    | 185589   | 44.365   | ug/L   | 94       |
| 13) Acetone                   | 2.623   | 43    | 251203   | 69.824   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.787   | 76    | 575848   | 42.263   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 242273   | 44.529   | ug/L   | 100      |
| 16) Methylene chloride        | 3.041   | 84    | 255268   | 46.488   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.347   | 96    | 198596   | 46.161   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 612663   | 49.799   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 390470   | 46.015   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 224297   | 47.786   | ug/L   | 99       |
| 22) 2-Butanone                | 4.700   | 43    | 366387   | 87.750   | ug/L   | 100      |
| 23) Bromochloromethane        | 4.970   | 128   | 124311   | 47.204   | ug/L   | 97       |
| 25) Chloroform                | 5.086   | 83    | 398532   | 45.554   | ug/L   | 98       |

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 ALS Vial : 13 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :  
 VSTD050117

Quant Time: Oct 27 01:31:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 27 01:27:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 310735   | 45.743  | ug/L  | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 298613   | 51.327  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 307558   | 46.827  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 256253   | 46.209  | ug/L  | 100      |
| 33) Benzene                   | 5.771  | 78   | 913064   | 50.439  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 210910   | 48.282  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 302930   | 48.477  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 242783   | 48.905  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.102  | 83   | 298640   | 47.256  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 332493   | 50.801  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 689553   | 103.956 | ug/L  | 100      |
| 42) Toluene                   | 7.967  | 91   | 960446   | 51.702  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 322007   | 50.555  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 239339   | 48.306  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.552  | 164  | 156475   | 47.989  | ug/L  | 100      |
| 48) 2-Hexanone                | 8.684  | 43   | 565085   | 99.695  | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.806  | 129  | 246320   | 48.572  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 248888   | 49.021  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 587050   | 48.258  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 950741   | 50.752  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.690  | 106  | 379916   | 52.615  | ug/L  | 99       |
| 54) o-Xylene                  | 10.099 | 106  | 383167   | 53.497  | ug/L  | 97       |
| 55) Styrene                   | 10.112 | 104  | 669119   | 53.761  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 443348   | 46.894  | ug/L  | 100      |
| 59) Bromoform                 | 10.288 | 173  | 187552   | 47.166  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 344643   | 46.580  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.481 | 105  | 922910   | 51.474  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 797737   | 52.376  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 803372   | 53.568  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 443553   | 48.464  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 444681   | 47.245  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 462685   | 48.532  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 92415    | 46.277  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.218 | 180  | 289470   | 47.148  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 231962   | 49.073  | ug/L  | 99       |
| 71) Naphthalene               | 14.082 | 128  | 816405   | 53.963  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 261227   | 51.483  | ug/L  | 98       |

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

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