

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020123\  
 Data File : VU052896.D  
 Acq On : 01 Feb 2023 11:02  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050147

Quant Time: Feb 01 20:00:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM012623WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 01 00:53:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 240693   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 231905   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 139202   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 79336    | 45.795   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.600%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 73771    | 51.680   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 103.360% |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 164065   | 47.615   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 95.220%  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 83311    | 77.847   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 77.850%  |
| 24) Chloroform-d              | 5.057   | 84    | 177767   | 48.081   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.160%  |
| 26) 1,2-Dichloroethane-d4     | 5.694   | 65    | 114711   | 48.591   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.180%  |
| 32) Benzene-d6                | 5.723   | 84    | 334174   | 47.166   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.340%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 97831    | 47.081   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 94.160%  |
| 41) Toluene-d8                | 7.893   | 98    | 312486   | 48.435   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.880%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 47842    | 45.936   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.880%  |
| 47) 2-Hexanone-d5             | 8.639   | 63    | 61179    | 83.792   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 83.790%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 140300   | 45.698   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 91.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 120235   | 44.483   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.960%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 112044   | 49.713   | ug/L   | 98       |
| 3) Chloromethane              | 1.520   | 50    | 96046    | 51.669   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604   | 62    | 107726   | 52.385   | ug/L   | 98       |
| 6) Bromomethane               | 1.851   | 94    | 66902    | 51.586   | ug/L   | 98       |
| 8) Chloroethane               | 1.922   | 64    | 71931    | 55.690   | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 2.128   | 101   | 184344   | 53.520   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 98980    | 50.982   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 87775    | 49.296   | ug/L   | 95       |
| 13) Acetone                   | 2.629   | 43    | 138355   | 105.852  | ug/L   | 97       |
| 14) Carbon disulfide          | 2.787   | 76    | 253360   | 47.113   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 76766    | 43.590   | ug/L   | 99       |
| 16) Methylene chloride        | 3.041   | 84    | 103836   | 49.024   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 3.346   | 96    | 92373    | 48.006   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 277529   | 49.051   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.861   | 63    | 171847   | 50.923   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 100153   | 48.750   | ug/L   | 96       |
| 22) 2-Butanone                | 4.700   | 43    | 137814   | 98.645   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.967   | 128   | 55917    | 48.469   | ug/L   | 97       |
| 25) Chloroform                | 5.083   | 83    | 193247   | 51.010   | ug/L   | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050147

Quant Time: Feb 01 20:00:28 2023  
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 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 01 00:53:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 148459   | 49.501  | ug/L  | 98       |
| 29) Cyclohexane               | 5.382  | 56   | 137349   | 49.980  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.308  | 97   | 174693   | 51.212  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 153966   | 52.068  | ug/L  | 99       |
| 33) Benzene                   | 5.768  | 78   | 400647   | 50.753  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 98126    | 48.905  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.758  | 83   | 158882   | 50.031  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 98689    | 50.850  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 143686   | 50.451  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 150307   | 49.440  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 209263   | 91.521  | ug/L  | 100      |
| 42) Toluene                   | 7.967  | 91   | 414849   | 51.277  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 148870   | 49.827  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 100009   | 50.391  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.549  | 164  | 84036    | 48.640  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.693  | 43   | 193914   | 100.248 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.806  | 129  | 117849   | 49.654  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 103001   | 48.220  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 273062   | 49.057  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 437271   | 50.575  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.690  | 106  | 180656   | 51.613  | ug/L  | 99       |
| 54) o-xylene                  | 10.099 | 106  | 172027   | 51.483  | ug/L  | 95       |
| 55) Styrene                   | 10.111 | 104  | 308415   | 53.788  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 158881   | 49.466  | ug/L  | 100      |
| 59) Bromoform                 | 10.291 | 173  | 87167    | 45.696  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 120858   | 44.759  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 452311   | 50.310  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 380198   | 50.789  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 379621   | 52.407  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 220486   | 48.609  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 218055   | 46.437  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 223821   | 48.785  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 31918    | 41.239  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 157454   | 46.890  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 123710   | 43.942  | ug/L  | 97       |
| 71) Naphthalene               | 14.082 | 128  | 326535   | 40.361  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 131184   | 44.091  | ug/L  | 99       |

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

