

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU051023\  
 Data File : VU054148.D  
 Acq On : 10 May 2023 17:17  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050099

Quant Time: May 11 06:47:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 06 01:14:00 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.244   | 114   | 238662   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 227429   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 133603   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 63772    | 35.330   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 70.660%  |
| 7) Chloroethane-d5            | 1.906   | 69    | 54584    | 46.068   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.140%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 135460   | 42.312   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 84.620%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 104978   | 101.973  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 101.970% |
| 24) Chloroform-d              | 5.057   | 84    | 150624   | 45.435   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.880%  |
| 26) 1,2-Dichloroethane-d4     | 5.694   | 65    | 94407    | 44.353   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 88.700%  |
| 32) Benzene-d6                | 5.719   | 84    | 277271   | 41.418   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 82.840%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 90729    | 42.931   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 85.860%  |
| 41) Toluene-d8                | 7.893   | 98    | 253827   | 41.997   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 84.000%  |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 46062    | 44.042   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.080%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 70662    | 93.351   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.350%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.748  | 84    | 131956   | 47.403   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 113365   | 43.435   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 86.880%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 81232    | 47.175   | ug/L   | 100      |
| 3) Chloromethane              | 1.517   | 50    | 72977    | 46.114   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 82354    | 48.927   | ug/L   | 98       |
| 6) Bromomethane               | 1.851   | 94    | 43543    | 46.406   | ug/L   | 98       |
| 8) Chloroethane               | 1.929   | 64    | 51382    | 56.019   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.134   | 101   | 136307   | 51.031   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 81366    | 50.934   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 69228    | 50.006   | ug/L   | 98       |
| 13) Acetone                   | 2.626   | 43    | 102870   | 101.805  | ug/L   | 97       |
| 14) Carbon disulfide          | 2.790   | 76    | 150532   | 48.991   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 79900    | 50.491   | ug/L   | 99       |
| 16) Methylene chloride        | 3.041   | 84    | 88585    | 50.736   | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 3.347   | 96    | 71450    | 50.474   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.356   | 73    | 258375   | 49.647   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 147951   | 48.678   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.662   | 96    | 88108    | 50.649   | ug/L   | 96       |
| 22) 2-Butanone                | 4.697   | 43    | 129570   | 108.611  | ug/L   | 96       |
| 23) Bromochloromethane        | 4.967   | 128   | 47254    | 52.396   | ug/L   | 96       |
| 25) Chloroform                | 5.080   | 83    | 162041   | 50.522   | ug/L   | 99       |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050099

Quant Time: May 11 06:47:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 06 01:14:00 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 123320   | 49.988  | ug/L  | 98       |
| 29) Cyclohexane               | 5.382  | 56   | 108695   | 46.244  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.308  | 97   | 139439   | 49.189  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.517  | 117  | 120742   | 49.926  | ug/L  | 98       |
| 33) Benzene                   | 5.768  | 78   | 318391   | 48.097  | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 88378    | 50.302  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.758  | 83   | 119957   | 48.682  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.784  | 63   | 88037    | 47.007  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.099  | 83   | 115660   | 49.018  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.600  | 75   | 144834   | 49.435  | ug/L  | 95       |
| 40) 4-Methyl-2-pentanone      | 7.784  | 43   | 220469   | 101.015 | ug/L  | 99       |
| 42) Toluene                   | 7.964  | 91   | 343766   | 49.883  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 141866   | 50.952  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.395  | 97   | 88978    | 49.084  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.549  | 164  | 69368    | 49.767  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.678  | 43   | 187273   | 108.271 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.803  | 129  | 91815    | 51.400  | ug/L  | 96       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 93890    | 51.028  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.443  | 112  | 235232   | 51.034  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.565  | 91   | 393504   | 50.734  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.687  | 106  | 150290   | 51.602  | ug/L  | 98       |
| 54) o-Xylene                  | 10.095 | 106  | 148662   | 52.174  | ug/L  | 99       |
| 55) Styrene                   | 10.108 | 104  | 263988   | 54.016  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 145833   | 51.069  | ug/L  | 98       |
| 59) Bromoform                 | 10.285 | 173  | 71982    | 48.124  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.816 | 75   | 114383   | 46.092  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.478 | 105  | 404619   | 47.977  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 337112   | 48.780  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 337963   | 49.614  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.738 | 146  | 205983   | 49.939  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 210357   | 50.076  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.205 | 146  | 205962   | 49.477  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.989 | 75   | 31680    | 50.039  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 157853   | 52.813  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 147636   | 54.485  | ug/L  | 98       |
| 71) Naphthalene               | 14.079 | 128  | 446591   | 56.823  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.324 | 180  | 150075   | 55.677  | ug/L  | 99       |

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

