

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW071123\  
 Data File : VW031683.D  
 Acq On : 11 Jul 2023 16:53  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050388

Quant Time: Jul 12 08:13:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM071123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 12 07:50:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542   | 114   | 306408   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 321573   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 191266   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 112373   | 40.519   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.040%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 100669   | 50.161   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.320% |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 56827    | 45.998   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.000%  |
| 21) 2-Butanone-d5             | 3.789   | 46    | 183914   | 103.772  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 103.770% |
| 24) Chloroform-d              | 4.256   | 84    | 268510   | 48.513   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.020%  |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 163052   | 46.851   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.700%  |
| 32) Benzene-d6                | 4.966   | 84    | 459917   | 47.701   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.400%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 158260   | 50.767   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.540% |
| 41) Toluene-d8                | 7.249   | 98    | 432960   | 49.944   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.880%  |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 72345    | 46.475   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.960%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 119564   | 100.064  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 100.060% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 230809   | 48.884   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 97.760%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 163210   | 46.522   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.040%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 173459   | 45.540   | ug/L   | 100      |
| 3) Chloromethane              | 1.217   | 50    | 165096   | 41.895   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.285   | 62    | 157138   | 42.579   | ug/L   | 100      |
| 6) Bromomethane               | 1.484   | 94    | 108937   | 51.664   | ug/L   | 98       |
| 8) Chloroethane               | 1.548   | 64    | 100197   | 49.239   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 1.715   | 101   | 255792   | 48.371   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072   | 101   | 144612   | 47.506   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 122592   | 46.339   | ug/L   | 92       |
| 13) Acetone                   | 2.111   | 43    | 117625   | 76.802   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.243   | 76    | 413604   | 47.482   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.375   | 43    | 170288   | 52.752   | ug/L   | 96       |
| 16) Methylene chloride        | 2.449   | 84    | 153116   | 48.960   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 130232   | 48.193   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 401160   | 48.781   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.114   | 63    | 273832   | 49.566   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 3.821   | 96    | 134553   | 48.538   | ug/L   | 93       |
| 22) 2-Butanone                | 3.870   | 43    | 211530   | 99.686   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.153   | 128   | 74762    | 49.602   | ug/L   | 93       |
| 25) Chloroform                | 4.285   | 83    | 283815   | 50.087   | ug/L   | 99       |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050388

Quant Time: Jul 12 08:13:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM071123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 12 07:50:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 219303   | 52.094  | ug/L   | 99       |
| 29) Cyclohexane               | 4.590  | 56   | 207463   | 49.210  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 248678   | 49.490  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 216124   | 48.530  | ug/L   | 100      |
| 33) Benzene                   | 5.018  | 78   | 558371   | 50.915  | ug/L   | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 151295   | 49.032  | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.056  | 83   | 208619   | 49.673  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 158695   | 51.764  | ug/L   | 98       |
| 38) Bromodichloromethane      | 6.439  | 83   | 209629   | 50.442  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 222316   | 47.937  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 429489   | 112.636 | ug/L   | 98       |
| 42) Toluene                   | 7.320  | 91   | 594735   | 52.514  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 230090   | 49.734  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 150236   | 49.497  | ug/L   | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 110297   | 47.016  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 340887   | 106.371 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.181  | 129  | 162070   | 48.080  | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 163555   | 48.901  | ug/L   | 96       |
| 51) Chlorobenzene             | 8.821  | 112  | 362540   | 48.293  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 622286   | 50.500  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.079  | 106  | 230092   | 50.648  | ug/L   | 95       |
| 54) o-Xylene                  | 9.484  | 106  | 215496   | 51.217  | ug/L   | 96       |
| 55) Styrene                   | 9.500  | 104  | 418512   | 54.032  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 236527   | 50.194  | ug/L   | 98       |
| 59) Bromoform                 | 9.670  | 173  | 124902   | 51.103  | ug/L # | 96       |
| 60) Isopropylbenzene          | 9.873  | 105  | 593895   | 50.850  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 200647   | 50.438  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 479519   | 50.247  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 490584   | 51.611  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.123 | 146  | 294970   | 48.624  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.213 | 146  | 310412   | 47.179  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 297452   | 47.809  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 59580    | 49.086  | ug/L   | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 210472   | 46.313  | ug/L   | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 182371   | 45.288  | ug/L   | 100      |
| 71) Naphthalene               | 13.445 | 128  | 570440   | 48.955  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 203816   | 48.274  | ug/L   | 99       |

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

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