

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV081123\  
 Data File : VV031791.D  
 Acq On : 11 Aug 2023 09:08  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005374

Quant Time: Aug 12 05:15:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Jul 18 06:24:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539  | 114   | 184072   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 203555   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 114172   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 64606    | 3.963    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 79.200%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 66396    | 4.493    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 40458    | 4.836    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 96.800%  |
| 20) 2-Butanone-d5             | 3.825  | 46    | 193766   | 46.527   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 93.060%  |
| 24) Chloroform-d              | 4.252  | 84    | 178955   | 5.153    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 103.000% |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 85752    | 4.835    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.600%  |
| 32) Benzene-d6                | 4.963  | 84    | 298787   | 5.141    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 102.800% |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 106548   | 4.947    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.000%  |
| 41) Toluene-d8                | 7.246  | 98    | 296619   | 5.558    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 111.200% |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 34234    | 5.033    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 100.600% |
| 46) 2-Hexanone-d5             | 8.034  | 63    | 146172   | 46.268   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 92.540%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 78420    | 4.962    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 99.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 104889   | 5.275    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 105.600% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108  | 85    | 100305   | 5.017    | ug/L   | 99       |
| 3) Chloromethane              | 1.217  | 50    | 93183    | 4.499    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.282  | 62    | 95811    | 4.841    | ug/L   | 93       |
| 6) Bromomethane               | 1.491  | 94    | 61071    | 5.048    | ug/L   | 99       |
| 8) Chloroethane               | 1.552  | 64    | 59014    | 5.139    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.716  | 101   | 151811   | 5.316    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101   | 90325    | 5.751    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 76569    | 5.332    | ug/L   | 94       |
| 13) Acetone                   | 2.153  | 43    | 134403   | 50.726   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.240  | 76    | 207966   | 4.665    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.391  | 43    | 23963    | 4.228    | ug/L   | 98       |
| 16) Methylene chloride        | 2.449  | 84    | 76914    | 4.030    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 2.709  | 73    | 135331   | 5.128    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 62184    | 5.008    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.114  | 63    | 141743   | 5.220    | ug/L   | 96       |
| 21) 2-Butanone                | 3.905  | 43    | 162429   | 47.098   | ug/L   | 91       |
| 22) cis-1,2-Dichloroethene    | 3.822  | 96    | 60839    | 4.956    | ug/L   | 92       |
| 23) Bromochloromethane        | 4.156  | 128   | 35398    | 5.726    | ug/L   | 88       |
| 25) Chloroform                | 4.278  | 83    | 151519   | 5.674    | ug/L   | 97       |

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 Sample : VSTDCCC005  
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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD005374

Quant Time: Aug 12 05:15:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Jul 18 06:24:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 87106    | 5.186  | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane     | 4.516  | 97   | 127322   | 5.179  | ug/L   | 98       |
| 30) Cyclohexane               | 4.587  | 56   | 82115    | 4.593  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 116890   | 5.389  | ug/L   | 97       |
| 33) Benzene                   | 5.015  | 78   | 268297   | 5.189  | ug/L   | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 75318    | 5.134  | ug/L   | 94       |
| 35) Methylcyclohexane         | 6.053  | 83   | 83877    | 4.607  | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 75190    | 5.066  | ug/L # | 98       |
| 38) Bromodichloromethane      | 6.436  | 83   | 101466   | 5.149  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 90270    | 4.886  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.166  | 43   | 405134   | 51.067 | ug/L   | 99       |
| 42) Toluene                   | 7.320  | 91   | 286441   | 5.736  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 81869    | 5.080  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 57781    | 5.240  | ug/L   | 93       |
| 47) Tetrachloroethene         | 7.908  | 164  | 56152    | 5.544  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.082  | 43   | 324144   | 55.760 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.182  | 129  | 68342    | 5.770  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 53918    | 5.229  | ug/L   | 96       |
| 51) Chlorobenzene             | 8.818  | 112  | 173766   | 5.276  | ug/L   | 93       |
| 52) Ethylbenzene              | 8.950  | 91   | 255718   | 5.165  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.079  | 106  | 96840    | 5.292  | ug/L   | 98       |
| 54) o-Xylene                  | 9.484  | 106  | 88658    | 5.223  | ug/L   | 95       |
| 55) Styrene                   | 9.500  | 104  | 168682   | 5.267  | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.182 | 83   | 55343    | 4.742  | ug/L   | 95       |
| 59) Bromoform                 | 9.670  | 173  | 37523    | 4.923  | ug/L # | 96       |
| 60) Isopropylbenzene          | 9.873  | 105  | 248736   | 4.918  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 48662    | 4.795  | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.481 | 105  | 191368   | 4.690  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 188857   | 4.637  | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 143467   | 5.264  | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.214 | 146  | 150931   | 5.232  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 139345   | 5.334  | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 9135     | 4.381  | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.587 | 180  | 102314   | 5.132  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 78185    | 4.950  | ug/L   | 98       |
| 71) Naphthalene               | 13.445 | 128  | 104046   | 4.083  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 70606    | 4.841  | ug/L   | 95       |

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

