

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD061324\  
 Data File : VD079177.D  
 Acq On : 13 Jun 2024 13:20  
 Operator : RP/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025895

Quant Time: Jun 14 04:32:22 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Jun 12 01:05:41 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.775  | 114   | 182007   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 179828   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 91266    | 25.000   | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.270  | 65    | 89957    | 16.061   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 64.240%  |
| 7) Chloroethane-d5            | 2.799  | 69    | 91928    | 16.974   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 67.880%  |
| 11) 1,1-Dichloroethene-d2     | 3.911  | 65    | 16790    | 16.886   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 67.560%  |
| 21) 2-Butanone-d5             | 6.981  | 46    | 23740    | 55.416   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 110.840% |
| 24) Chloroform-d              | 7.563  | 84    | 105387   | 20.709   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 82.840%  |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 48812    | 20.792   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 83.160%  |
| 32) Benzene-d6                | 8.199  | 84    | 202490   | 20.312   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 81.240%  |
| 36) 1,2-Dichloropropane-d6    | 9.204  | 67    | 57422    | 19.996   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 80.000%  |
| 41) Toluene-d8                | 10.269 | 98    | 181022   | 19.394   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 77.560%  |
| 43) trans-1,3-Dichloroprop... | 10.522 | 79    | 25547    | 21.166   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 84.680%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 21137    | 56.937   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 113.880% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 63013    | 24.774   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 99.080%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 64912    | 20.608   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 82.440%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.928  | 85    | 50960    | 17.687   | ug/L   | 99       |
| 3) Chloromethane              | 2.146  | 50    | 90507    | 23.569   | ug/L   | 96       |
| 5) Vinyl chloride             | 2.281  | 62    | 131428   | 20.736   | ug/L   | 98       |
| 6) Bromomethane               | 2.687  | 94    | 90924    | 18.582   | ug/L   | 97       |
| 8) Chloroethane               | 2.834  | 64    | 97990    | 21.094   | ug/L   | 92       |
| 9) Trichlorofluoromethane     | 3.170  | 101   | 98947    | 20.493   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.958  | 101   | 61851    | 21.363   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 3.940  | 96    | 51814    | 20.556   | ug/L   | 89       |
| 13) Acetone                   | 4.017  | 43    | 34145    | 55.054   | ug/L   | 99       |
| 14) Carbon disulfide          | 4.264  | 76    | 162563   | 18.488   | ug/L   | 96       |
| 15) Methyl Acetate            | 4.569  | 43    | 22454    | 26.572   | ug/L   | 99       |
| 16) Methylene chloride        | 4.799  | 84    | 75030    | 23.136   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 5.305  | 96    | 59999    | 22.026   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 5.316  | 73    | 123069   | 25.474   | ug/L # | 90       |
| 19) 1,1-Dichloroethane        | 6.105  | 63    | 99786    | 22.752   | ug/L   | 92       |
| 20) cis-1,2-Dichloroethene    | 7.075  | 96    | 67728    | 23.878   | ug/L   | 92       |
| 22) 2-Butanone                | 7.081  | 43    | 35992    | 55.242   | ug/L   | 95       |
| 23) Bromochloromethane        | 7.422  | 128   | 33076    | 23.001   | ug/L   | 96       |
| 25) Chloroform                | 7.593  | 83    | 115004   | 23.096   | ug/L   | 96       |

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 MSVOA\_D  
 ClientSampleId :  
 VSTD025895

Quant Time: Jun 14 04:32:22 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM052924SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Jun 12 01:05:41 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.322  | 62   | 68032    | 23.536 | ug/L  | 97       |
| 29) Cyclohexane               | 7.875  | 56   | 69095    | 21.296 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 7.787  | 97   | 97735    | 22.956 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 87067    | 22.007 | ug/L  | 97       |
| 33) Benzene                   | 8.246  | 78   | 249415   | 23.287 | ug/L  | 100      |
| 34) Trichloroethene           | 9.022  | 95   | 61702    | 22.367 | ug/L  | 90       |
| 35) Methylcyclohexane         | 9.269  | 83   | 96092    | 21.022 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.299  | 63   | 62531    | 23.835 | ug/L  | 99       |
| 38) Bromodichloromethane      | 9.587  | 83   | 87809    | 24.077 | ug/L  | 93       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 96696    | 23.611 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 62659    | 57.215 | ug/L  | 99       |
| 42) Toluene                   | 10.334 | 91   | 276652   | 23.261 | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene | 10.551 | 75   | 87232    | 25.189 | ug/L  | 95       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 56875    | 24.711 | ug/L  | 97       |
| 46) Tetrachloroethene         | 10.804 | 164  | 51833    | 21.339 | ug/L  | 94       |
| 48) 2-Hexanone                | 10.916 | 43   | 53888    | 56.865 | ug/L  | 96       |
| 49) Dibromochloromethane      | 11.069 | 129  | 63918    | 23.452 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 11.175 | 107  | 52668    | 24.900 | ug/L  | 97       |
| 51) Chlorobenzene             | 11.604 | 112  | 181741   | 22.966 | ug/L  | 95       |
| 52) Ethylbenzene              | 11.681 | 91   | 282946   | 22.808 | ug/L  | 98       |
| 53) m,p-Xylene                | 11.793 | 106  | 115628   | 23.756 | ug/L  | 99       |
| 54) o-Xylene                  | 12.122 | 106  | 108851   | 23.148 | ug/L  | 94       |
| 55) Styrene                   | 12.134 | 104  | 200773   | 24.079 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 66823    | 25.937 | ug/L  | 100      |
| 59) Bromoform                 | 12.298 | 173  | 42304    | 25.291 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.422 | 105  | 284681   | 23.590 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 12.722 | 75   | 43967    | 27.286 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 190079   | 23.037 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 209452   | 23.733 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 133863   | 23.090 | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 13.534 | 146  | 142621   | 23.218 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 13.828 | 146  | 125853   | 23.483 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 14.445 | 75   | 8511     | 25.695 | ug/L  | 85       |
| 69) 1,3,5-Trichlorobenzene    | 14.592 | 180  | 83261    | 22.771 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 67999    | 22.392 | ug/L  | 99       |
| 71) Naphthalene               | 15.328 | 128  | 142698   | 25.127 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 64140    | 24.438 | ug/L  | 96       |

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

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