

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111523\  
 Data File : VD077574.D  
 Acq On : 15 Nov 2023 08:40  
 Operator : JC/SY  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD025209

Quant Time: Nov 16 05:41:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM110923SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Nov 10 02:07:44 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 309365   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 284196   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.522 | 152   | 139911   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.281  | 65    | 169229   | 21.504   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 86.000%  |
| 7) Chloroethane-d5            | 2.811  | 69    | 147502   | 23.859   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 95.440%  |
| 11) 1,1-Dichloroethene-d2     | 3.928  | 65    | 54065    | 22.217   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 88.880%  |
| 21) 2-Butanone-d5             | 6.987  | 46    | 67375    | 49.448   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 98.900%  |
| 24) Chloroform-d              | 7.569  | 84    | 231010   | 25.849   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 103.400% |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65    | 118332   | 24.893   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 99.560%  |
| 32) Benzene-d6                | 8.204  | 84    | 448105   | 24.294   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 97.160%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 147903   | 24.617   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 98.480%  |
| 41) Toluene-d8                | 10.269 | 98    | 411781   | 24.705   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 98.840%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 61856    | 23.878   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 95.520%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 54249    | 50.474   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 100.940% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 104288   | 26.198   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 104.800% |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 125882   | 25.291   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 101.160% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 116336   | 23.350   | ug/L   | 99       |
| 3) Chloromethane              | 2.152  | 50    | 167151   | 23.319   | ug/L   | 100      |
| 5) Vinyl chloride             | 2.287  | 62    | 189698   | 23.447   | ug/L   | 100      |
| 6) Bromomethane               | 2.705  | 94    | 103730   | 24.083   | ug/L   | 96       |
| 8) Chloroethane               | 2.846  | 64    | 123300   | 24.514   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 3.187  | 101   | 179667   | 24.402   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.975  | 101   | 110194   | 24.320   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 3.952  | 96    | 102281   | 23.249   | ug/L   | 91       |
| 13) Acetone                   | 4.022  | 43    | 70000    | 48.875   | ug/L   | 97       |
| 14) Carbon disulfide          | 4.281  | 76    | 351338   | 22.179   | ug/L   | 99       |
| 15) Methyl Acetate            | 4.558  | 43    | 51183    | 21.723   | ug/L   | 97       |
| 16) Methylene chloride        | 4.811  | 84    | 109807   | 21.023   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 5.322  | 96    | 105870   | 22.877   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 5.316  | 73    | 248236   | 22.854   | ug/L # | 86       |
| 19) 1,1-Dichloroethane        | 6.116  | 63    | 219738   | 23.666   | ug/L   | 95       |
| 20) cis-1,2-Dichloroethene    | 7.087  | 96    | 117588   | 23.387   | ug/L   | 99       |
| 22) 2-Butanone                | 7.087  | 43    | 73850    | 42.855   | ug/L   | 95       |
| 23) Bromochloromethane        | 7.428  | 128   | 47554    | 23.539   | ug/L   | 93       |
| 25) Chloroform                | 7.599  | 83    | 205530   | 24.096   | ug/L   | 100      |

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Quant Time: Nov 16 05:41:59 2023  
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 Quant Title : SFAM01.0  
 QLast Update : Fri Nov 10 02:07:44 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 130763   | 23.126 | ug/L   | 95       |
| 29) Cyclohexane               | 7.881  | 56   | 207059   | 22.440 | ug/L   | 100      |
| 30) 1,1,1-Trichloroethane     | 7.799  | 97   | 180913   | 24.317 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 153251   | 23.968 | ug/L   | 98       |
| 33) Benzene                   | 8.252  | 78   | 470015   | 23.849 | ug/L   | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 116387   | 23.833 | ug/L   | 92       |
| 35) Methylcyclohexane         | 9.275  | 83   | 206080   | 23.385 | ug/L   | 100      |
| 37) 1,2-Dichloropropane       | 9.304  | 63   | 128843   | 23.517 | ug/L   | 99       |
| 38) Bromodichloromethane      | 9.587  | 83   | 148725   | 23.666 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 193209   | 22.949 | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 10.163 | 43   | 145683   | 43.634 | ug/L   | 98       |
| 42) Toluene                   | 10.334 | 91   | 496567   | 23.999 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 162216   | 23.318 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 79209    | 23.651 | ug/L   | 97       |
| 46) Tetrachloroethene         | 10.810 | 164  | 85336    | 23.749 | ug/L   | 96       |
| 48) 2-Hexanone                | 10.922 | 43   | 117431   | 44.373 | ug/L   | 98       |
| 49) Dibromochloromethane      | 11.075 | 129  | 88575    | 23.284 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 72003    | 22.483 | ug/L # | 98       |
| 51) Chlorobenzene             | 11.610 | 112  | 288879   | 23.831 | ug/L   | 100      |
| 52) Ethylbenzene              | 11.687 | 91   | 543904   | 23.890 | ug/L   | 100      |
| 53) m,p-Xylene                | 11.793 | 106  | 198546   | 23.965 | ug/L   | 96       |
| 54) o-Xylene                  | 12.122 | 106  | 190004   | 23.946 | ug/L   | 93       |
| 55) Styrene                   | 12.140 | 104  | 337283   | 24.345 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 92269    | 23.387 | ug/L   | 95       |
| 59) Bromoform                 | 12.304 | 173  | 53652    | 22.492 | ug/L # | 98       |
| 60) Isopropylbenzene          | 12.422 | 105  | 529660   | 23.404 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 63766    | 21.396 | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 400527   | 23.319 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 408794   | 23.496 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 13.463 | 146  | 217596   | 23.437 | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 13.539 | 146  | 219699   | 23.448 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 188062   | 22.911 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 14.445 | 75   | 13802    | 21.291 | ug/L   | 93       |
| 69) 1,3,5-Trichlorobenzene    | 14.598 | 180  | 147909   | 23.397 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.104 | 180  | 123810   | 23.238 | ug/L   | 99       |
| 71) Naphthalene               | 15.334 | 128  | 218389   | 21.749 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 105941   | 23.320 | ug/L   | 97       |

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

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