

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100523\  
 Data File : VD077272.D  
 Acq On : 05 Oct 2023 10:45  
 Operator : JC/SY  
 Sample : 04696-04  
 Misc : 5.00G/10.0ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-QT4-2023-08

Quant Time: Oct 06 08:09:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM092523SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Wed Oct 04 22:27:10 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/06/2023  
 Supervised By : Mahesh Dadoda 10/12/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.775  | 114   | 219625   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 230961   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 113096   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.276  | 65    | 106135   | 18.271   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 73.080%  |
| 7) Chloroethane-d5            | 2.799  | 69    | 103837   | 28.367   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 113.480% |
| 11) 1,1-Dichloroethene-d2     | 3.917  | 65    | 32457    | 19.859   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 79.440%  |
| 21) 2-Butanone-d5             | 6.981  | 46    | 70498    | 66.984   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 133.960% |
| 24) Chloroform-d              | 7.569  | 84    | 205153   | 24.772   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 99.080%  |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 102101   | 24.784   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 99.120%  |
| 32) Benzene-d6                | 8.205  | 84    | 371203   | 22.127   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 88.520%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 132727   | 25.454   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 101.800% |
| 41) Toluene-d8                | 10.269 | 98    | 300110   | 20.363   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 81.440%  |
| 43) trans-1,3-Dichloroprop... | 10.528 | 79    | 46810    | 22.077   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 88.320%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 51266    | 61.460   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 122.920% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 138598   | 29.417   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 117.680% |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 113879   | 24.426   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 97.720%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 4870     | 1.364    | ug/L   | 95       |
| 3) Chloromethane              | 2.152  | 50    | 5279     | 1.139    | ug/L   | 96       |
| 5) Vinyl chloride             | 2.281  | 62    | 6751     | 1.223    | ug/L # | 60       |
| 6) Bromomethane               | 2.693  | 94    | 4436     | 1.314    | ug/L   | 96       |
| 8) Chloroethane               | 2.840  | 64    | 4445     | 1.642    | ug/L   | 89       |
| 9) Trichlorofluoromethane     | 3.181  | 101   | 7812     | 1.369    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.970  | 101   | 6275m    | 1.539    | ug/L   |          |
| 12) 1,1-Dichloroethene        | 3.946  | 96    | 4678     | 1.375    | ug/L # | 1        |
| 13) Acetone                   | 4.028  | 43    | 3549m    | 3.250    | ug/L   |          |
| 14) Carbon disulfide          | 4.275  | 76    | 9645     | 1.087    | ug/L # | 90       |
| 15) Methyl Acetate            | 4.581  | 43    | 2204m    | 1.182    | ug/L   |          |
| 16) Methylene chloride        | 4.793  | 84    | 32209    | 5.889    | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 5.311  | 96    | 3922m    | 1.024    | ug/L   |          |
| 18) Methyl tert-butyl Ether   | 5.322  | 73    | 9307m    | 1.031    | ug/L   |          |
| 19) 1,1-Dichloroethane        | 6.111  | 63    | 8886     | 1.231    | ug/L   | 96       |
| 20) cis-1,2-Dichloroethene    | 7.075  | 96    | 4872     | 1.042    | ug/L   | 95       |
| 22) 2-Butanone                | 7.093  | 43    | 4834m    | 3.422    | ug/L   |          |
| 23) Bromochloromethane        | 7.434  | 128   | 2685     | 1.212    | ug/L # | 67       |
| 25) Chloroform                | 7.593  | 83    | 10727    | 1.343    | ug/L   | 90       |

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 Quant Title : SFAM01.0  
 QLast Update : Wed Oct 04 22:27:10 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/06/2023  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 5960     | 1.261 | ug/L   | 97       |
| 29) Cyclohexane               | 7.881  | 56   | 4910m    | 1.045 | ug/L   |          |
| 30) 1,1,1-Trichloroethane     | 7.793  | 97   | 7330     | 1.096 | ug/L   | 87       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 5150m    | 0.952 | ug/L   |          |
| 33) Benzene                   | 8.252  | 78   | 19968    | 1.171 | ug/L   | 100      |
| 34) Trichloroethene           | 9.022  | 95   | 5278     | 1.227 | ug/L # | 71       |
| 35) Methylcyclohexane         | 9.275  | 83   | 5085     | 0.849 | ug/L # | 84       |
| 37) 1,2-Dichloropropane       | 9.305  | 63   | 5482     | 1.172 | ug/L # | 87       |
| 38) Bromodichloromethane      | 9.581  | 83   | 6956     | 1.119 | ug/L # | 90       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 7373     | 1.037 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 5894     | 2.199 | ug/L   | 95       |
| 42) Toluene                   | 10.334 | 91   | 21149    | 1.150 | ug/L   | 85       |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 8420     | 1.371 | ug/L   | 86       |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 4205     | 1.056 | ug/L   | 90       |
| 46) Tetrachloroethene         | 10.810 | 164  | 3688     | 1.093 | ug/L   | 84       |
| 48) 2-Hexanone                | 10.922 | 43   | 5090     | 2.476 | ug/L # | 90       |
| 49) Dibromochloromethane      | 11.075 | 129  | 5027     | 1.134 | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 11.187 | 107  | 4256     | 1.142 | ug/L # | 83       |
| 51) Chlorobenzene             | 11.604 | 112  | 12841    | 1.028 | ug/L   | 97       |
| 52) Ethylbenzene              | 11.681 | 91   | 19488    | 0.977 | ug/L   | 94       |
| 53) m,p-Xylene                | 11.799 | 106  | 7235     | 0.951 | ug/L   | 95       |
| 54) o-Xylene                  | 12.122 | 106  | 6449     | 0.870 | ug/L   | 71       |
| 55) Styrene                   | 12.140 | 104  | 11343    | 0.841 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 6488     | 1.362 | ug/L # | 94       |
| 59) Bromoform                 | 12.299 | 173  | 2967     | 1.165 | ug/L # | 53       |
| 60) Isopropylbenzene          | 12.422 | 105  | 17368    | 0.983 | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 12.734 | 75   | 3833     | 1.338 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 12423    | 0.919 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 12347    | 0.920 | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 9204     | 1.070 | ug/L   | 92       |
| 65) 1,4-Dichlorobenzene       | 13.534 | 146  | 10001    | 1.113 | ug/L # | 92       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 10378    | 1.310 | ug/L # | 87       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 667m     | 1.088 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 14.592 | 180  | 5998     | 1.061 | ug/L   | 94       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 5108     | 1.054 | ug/L # | 96       |
| 71) Naphthalene               | 15.334 | 128  | 11081    | 1.105 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 15.528 | 180  | 5124     | 1.132 | ug/L # | 92       |

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

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