

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD020524\  
 Data File : VD078346.D  
 Acq On : 05 Feb 2024 14:13  
 Operator : RP/MD  
 Sample : 04696-04  
 Misc : 5.00G/10ml/MSVOA\_D/SOIL/B  
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Feb 06 01:30:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM020124SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Feb 06 00:51:05 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/06/2024  
 Supervised By :Mahesh Dadoda 02/06/2024

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.781  | 114   | 203167   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 197100   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 80063    | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.276  | 65    | 97205    | 16.864   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 67.440%  |
| 7) Chloroethane-d5            | 2.799  | 69    | 91045    | 18.791   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 75.160%  |
| 11) 1,1-Dichloroethene-d2     | 3.917  | 65    | 21594    | 17.350   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 69.400%  |
| 21) 2-Butanone-d5             | 6.993  | 46    | 29868    | 35.194   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 70.380%  |
| 24) Chloroform-d              | 7.569  | 84    | 109624   | 18.925   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 75.680%  |
| 26) 1,2-Dichloroethane-d4     | 8.234  | 65    | 59439    | 19.014   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 76.040%  |
| 32) Benzene-d6                | 8.205  | 84    | 215700   | 18.716   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 74.880%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 70438    | 19.853   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 79.400%  |
| 41) Toluene-d8                | 10.269 | 98    | 183375   | 17.715   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 70.840%  |
| 43) trans-1,3-Dichloroprop... | 10.522 | 79    | 28611    | 18.060   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 72.240%  |
| 47) 2-Hexanone-d5             | 10.881 | 63    | 25825    | 35.875   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 71.740%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 61794    | 18.743   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 74.960%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 61586    | 21.486   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 85.960%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 2898     | 0.723    | ug/L   | 96       |
| 3) Chloromethane              | 2.152  | 50    | 5006     | 0.859    | ug/L   | 90       |
| 5) Vinyl chloride             | 2.281  | 62    | 6467     | 0.898    | ug/L # | 65       |
| 6) Bromomethane               | 2.693  | 94    | 2878     | 0.881    | ug/L   | 93       |
| 8) Chloroethane               | 2.834  | 64    | 3870m    | 0.844    | ug/L   |          |
| 9) Trichlorofluoromethane     | 3.170  | 101   | 4521     | 0.883    | ug/L   | 95       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.964  | 101   | 3197m    | 1.003    | ug/L   |          |
| 12) 1,1-Dichloroethene        | 3.946  | 96    | 2859m    | 0.969    | ug/L   |          |
| 14) Carbon disulfide          | 4.270  | 76    | 8484     | 0.781    | ug/L # | 93       |
| 15) Methyl Acetate            | 4.581  | 43    | 1083m    | 0.649    | ug/L   |          |
| 16) Methylene chloride        | 4.805  | 84    | 9181m    | 2.304    | ug/L   |          |
| 17) trans-1,2-Dichloroethene  | 5.305  | 96    | 2567m    | 0.790    | ug/L   |          |
| 18) Methyl tert-butyl Ether   | 5.317  | 73    | 4753m    | 0.629    | ug/L   |          |
| 19) 1,1-Dichloroethane        | 6.117  | 63    | 4506m    | 0.792    | ug/L   |          |
| 20) cis-1,2-Dichloroethene    | 7.087  | 96    | 3166     | 0.889    | ug/L   | 85       |
| 22) 2-Butanone                | 7.093  | 43    | 1833m    | 1.359    | ug/L   |          |
| 23) Bromochloromethane        | 7.428  | 128   | 1478m    | 0.940    | ug/L   |          |
| 25) Chloroform                | 7.593  | 83    | 10759    | 1.734    | ug/L   | 93       |
| 27) 1,2-Dichloroethane        | 8.322  | 62    | 2982     | 0.748    | ug/L # | 69       |

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 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Feb 06 01:30:18 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM020124SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Tue Feb 06 00:51:05 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Mahesh Dadoda 02/06/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 7.875  | 56   | 2912     | 0.654 | ug/L # | 83       |
| 30) 1,1,1-Trichloroethane     | 7.799  | 97   | 3994m    | 0.827 | ug/L   |          |
| 31) Carbon tetrachloride      | 7.993  | 117  | 3498m    | 0.822 | ug/L   |          |
| 33) Benzene                   | 8.252  | 78   | 11180    | 0.842 | ug/L   | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 2651     | 0.790 | ug/L   | 81       |
| 35) Methylcyclohexane         | 9.275  | 83   | 3887     | 0.741 | ug/L # | 78       |
| 37) 1,2-Dichloropropane       | 9.299  | 63   | 2804m    | 0.801 | ug/L   |          |
| 38) Bromodichloromethane      | 9.581  | 83   | 3599     | 0.788 | ug/L # | 71       |
| 39) cis-1,3-Dichloropropene   | 10.010 | 75   | 4146m    | 0.761 | ug/L   |          |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 2615     | 1.203 | ug/L # | 83       |
| 42) Toluene                   | 10.334 | 91   | 10985    | 0.795 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 10.557 | 75   | 4093m    | 0.859 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 2293     | 0.822 | ug/L   | 85       |
| 46) Tetrachloroethene         | 10.810 | 164  | 1754     | 0.762 | ug/L   | 84       |
| 48) 2-Hexanone                | 10.922 | 43   | 2705     | 1.526 | ug/L # | 80       |
| 49) Dibromochloromethane      | 11.081 | 129  | 2178     | 0.695 | ug/L # | 67       |
| 50) 1,2-Dibromoethane         | 11.175 | 107  | 1836     | 0.675 | ug/L # | 96       |
| 51) Chlorobenzene             | 11.610 | 112  | 7405     | 0.828 | ug/L # | 87       |
| 52) Ethylbenzene              | 11.681 | 91   | 10705    | 0.721 | ug/L   | 86       |
| 53) m,p-Xylene                | 11.793 | 106  | 3728     | 0.653 | ug/L   | 89       |
| 54) o-Xylene                  | 12.122 | 106  | 3315     | 0.603 | ug/L   | 87       |
| 55) Styrene                   | 12.134 | 104  | 5878     | 0.592 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 3091     | 0.865 | ug/L # | 91       |
| 59) Bromoform                 | 12.293 | 173  | 1241m    | 0.773 | ug/L   |          |
| 60) Isopropylbenzene          | 12.428 | 105  | 9127     | 0.754 | ug/L   | 94       |
| 61) 1,2,3-Trichloropropane    | 12.722 | 75   | 1640     | 0.803 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 5827     | 0.616 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 6099     | 0.651 | ug/L   | 93       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 4254     | 0.788 | ug/L # | 86       |
| 65) 1,4-Dichlorobenzene       | 13.534 | 146  | 5397     | 0.955 | ug/L   | 91       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 4634     | 0.907 | ug/L # | 89       |
| 68) 1,2-Dibromo-3-chloropr... | 14.451 | 75   | 358m     | 0.791 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 14.593 | 180  | 2833     | 0.852 | ug/L   | 92       |
| 70) 1,2,4-trichlorobenzene    | 15.092 | 180  | 2514     | 0.874 | ug/L   | 92       |
| 71) Naphthalene               | 15.334 | 128  | 5255     | 0.781 | ug/L   | 95       |
| 72) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 2418     | 0.901 | ug/L   | 91       |

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

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