

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV051324\  
 Data File : VV035592.D  
 Acq On : 13 May 2024 11:11  
 Operator : SY/MD  
 Sample : P2409-06  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-MED-SOIL-QT2-2024-04

Quant Time: May 14 01:45:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050124WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 14 01:24:59 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/14/2024  
 Supervised By :Semsettin Yesilyurt 05/14/2024

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532          | 114  | 451344     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783          | 117  | 446456     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181         | 152  | 200099     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278          | 65   | 139682     | 40.137   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 80.280%  |        |          |
| 7) Chloroethane-d5            | 1.526          | 69   | 125026     | 48.751   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 97.500%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.056          | 65   | 63914      | 42.784   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 85.560%  |        |          |
| 21) 2-Butanone-d5             | 3.783          | 46   | 213400     | 90.858   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 90.860%  |        |          |
| 24) Chloroform-d              | 4.243          | 84   | 301607     | 47.248   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 94.500%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 4.937          | 65   | 187422     | 49.856   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 99.720%  |        |          |
| 32) Benzene-d6                | 4.957          | 84   | 586671     | 46.685   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.360%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 5.985          | 67   | 194744     | 49.702   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 99.400%  |        |          |
| 41) Toluene-d8                | 7.239          | 98   | 500278     | 43.736   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 87.480%  |        |          |
| 43) trans-1,3-Dichloroprop... | 7.551          | 79   | 81885      | 42.879   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 85.760%  |        |          |
| 47) 2-Hexanone-d5             | 8.021          | 63   | 147328     | 81.823   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 81.820%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149         | 84   | 261872     | 43.861   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 87.720%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.558         | 152  | 198787     | 50.003   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.000% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105          | 85   | 7994       | 2.644    | ug/L   | 95       |
| 3) Chloromethane              | 1.214          | 50   | 9454       | 2.886    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.281          | 62   | 9036       | 2.619    | ug/L # | 78       |
| 6) Bromomethane               | 1.478          | 94   | 6476       | 2.953    | ug/L   | 95       |
| 8) Chloroethane               | 1.542          | 64   | 6549       | 3.302    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.709          | 101  | 12462      | 2.685    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.063          | 101  | 9882       | 3.359    | ug/L # | 86       |
| 12) 1,1-Dichloroethene        | 2.066          | 96   | 8572       | 3.262    | ug/L # | 1        |
| 13) Acetone                   | 2.114          | 43   | 11607      | 5.338    | ug/L   | 95       |
| 14) Carbon disulfide          | 2.236          | 76   | 16572      | 2.401    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.381          | 43   | 8763       | 2.484    | ug/L   | 100      |
| 16) Methylene chloride        | 2.445          | 84   | 10181      | 3.058    | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 2.696          | 96   | 6520       | 2.348    | ug/L   | 91       |
| 18) Methyl tert-butyl Ether   | 2.706          | 73   | 22765      | 2.331    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.114          | 63   | 15407      | 2.642    | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.812          | 96   | 8547       | 2.587    | ug/L   | 96       |
| 22) 2-Butanone                | 3.924          | 43   | 11898m     | 4.622    | ug/L   |          |
| 23) Bromochloromethane        | 4.156          | 128  | 4735       | 2.621    | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 5.059          | 62   | 11095      | 2.575    | ug/L   | 99       |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 4.577  | 56   | 8107     | 2.034 | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 13942    | 2.729 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 11720    | 2.653 | ug/L   | 99       |
| 33) Benzene                   | 5.014  | 78   | 30559    | 2.535 | ug/L   | 100      |
| 34) Trichloroethene           | 5.844  | 95   | 9784     | 3.050 | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.047  | 83   | 11776m   | 2.602 | ug/L   |          |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 9013m    | 2.721 | ug/L   |          |
| 38) Bromodichloromethane      | 6.439  | 83   | 11907    | 2.613 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 6.963  | 75   | 12321m   | 2.369 | ug/L   |          |
| 40) 4-Methyl-2-pentanone      | 7.165  | 43   | 20145m   | 4.556 | ug/L   |          |
| 42) Toluene                   | 7.323  | 91   | 30898    | 2.443 | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 7.590  | 75   | 13036m   | 2.639 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 7.776  | 97   | 9148     | 2.582 | ug/L   | 94       |
| 46) Tetrachloroethene         | 7.908  | 164  | 6521     | 2.517 | ug/L   | 92       |
| 48) 2-Hexanone                | 8.088  | 43   | 20268m   | 5.634 | ug/L   |          |
| 49) Dibromochloromethane      | 8.178  | 129  | 9854     | 2.657 | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.291  | 107  | 9299     | 2.512 | ug/L # | 99       |
| 51) Chlorobenzene             | 8.815  | 112  | 22223    | 2.531 | ug/L   | 99       |
| 52) Ethylbenzene              | 8.950  | 91   | 30081m   | 2.201 | ug/L   |          |
| 53) m,p-Xylene                | 9.079  | 106  | 10195    | 2.011 | ug/L   | 93       |
| 54) o-Xylene                  | 9.480  | 106  | 9853     | 1.929 | ug/L   | 87       |
| 55) Styrene                   | 9.506  | 104  | 15460    | 1.751 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 14397    | 2.375 | ug/L   | 95       |
| 59) Bromoform                 | 9.667  | 173  | 6844     | 2.644 | ug/L   | 98       |
| 60) Isopropylbenzene          | 9.866  | 105  | 24896    | 2.155 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 11975    | 2.983 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 19766    | 2.137 | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 10.853 | 105  | 18545    | 2.000 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 15018    | 2.510 | ug/L   | 93       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 17473    | 2.767 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 18232    | 2.912 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 2706     | 2.289 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 11447    | 2.520 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 10296    | 2.573 | ug/L   | 98       |
| 71) Naphthalene               | 13.442 | 128  | 24149m   | 2.154 | ug/L   |          |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 9998     | 2.407 | ug/L   | 97       |

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

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