

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122322\  
 Data File : VX033557.D  
 Acq On : 23 Dec 2022 12:02  
 Operator : JC/MD  
 Sample : N4519-06  
 Misc : 5.00g/5.0mL/100ul/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2022-08

Quant Time: Dec 24 01:04:41 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 24 00:26:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.763   | 114   | 205231   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 182488   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 86546    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.367   | 65    | 40984    | 37.540   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 75.080%  |
| 7) Chloroethane-d5            | 1.672   | 69    | 41794    | 48.950   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 97.900%  |
| 11) 1,1-Dichloroethene-d2     | 2.306   | 63    | 62946    | 36.113   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 72.220%  |
| 21) 2-Butanone-d5             | 4.458   | 46    | 66366    | 83.686   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 83.690%  |
| 24) Chloroform-d              | 5.056   | 84    | 128292   | 47.401   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 86628    | 51.622   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.240% |
| 32) Benzene-d6                | 5.976   | 84    | 243514   | 46.724   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.440%  |
| 36) 1,2-Dichloropropane-d6    | 7.305   | 67    | 73082    | 47.997   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 96.000%  |
| 41) Toluene-d8                | 8.647   | 98    | 230967   | 45.661   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.320%  |
| 43) trans-1,3-Dichloroprop... | 8.951   | 79    | 33518    | 45.535   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.060%  |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 64570    | 103.445  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.440% |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189  | 84    | 101116   | 48.431   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.860%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 86227    | 48.029   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.060%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166   | 85    | 1036     | 2.091    | ug/L   | 90       |
| 3) Chloromethane              | 1.294   | 50    | 1287     | 2.069    | ug/L   | 95       |
| 5) Vinyl chloride             | 1.374   | 62    | 1370     | 1.667    | ug/L # | 19       |
| 6) Bromomethane               | 1.617   | 94    | 998      | 2.041    | ug/L # | 60       |
| 8) Chloroethane               | 1.691   | 64    | 1347     | 2.464    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.892   | 101   | 3138     | 2.307    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331   | 101   | 2628     | 3.037    | ug/L # | 73       |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 2199     | 2.826    | ug/L # | 1        |
| 13) Acetone                   | 2.392   | 43    | 2148     | 4.217    | ug/L   | 95       |
| 14) Carbon disulfide          | 2.514   | 76    | 4014     | 1.695    | ug/L   | 97       |
| 15) Methyl Acetate            | 2.709   | 43    | 1780     | 1.748    | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 3.099   | 96    | 1677     | 1.455    | ug/L   | 90       |
| 18) Methyl tert-butyl Ether   | 3.117   | 73    | 5780     | 1.582    | ug/L # | 94       |
| 19) 1,1-Dichloroethane        | 3.611   | 63    | 3226     | 1.613    | ug/L # | 95       |
| 20) cis-1,2-Dichloroethene    | 4.501   | 96    | 2189m    | 1.620    | ug/L   |          |
| 22) 2-Butanone                | 4.574   | 43    | 3424     | 4.081    | ug/L   | 76       |
| 23) Bromochloromethane        | 4.897   | 128   | 1592m    | 2.202    | ug/L   |          |
| 27) 1,2-Dichloroethane        | 6.092   | 62    | 4244     | 2.393    | ug/L # | 91       |
| 29) Cyclohexane               | 5.470   | 56    | 3315     | 1.859    | ug/L # | 80       |

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 Sample : N4519-06  
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 ALS Vial : 6 Sample Multiplier: 1

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 MSVOA\_X  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2022-08

Quant Time: Dec 24 01:04:41 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 24 00:26:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 30) 1,1,1-Trichloroethane     | 5.391  | 97   | 4514m    | 2.127 | ug/L   |          |
| 31) Carbon tetrachloride      | 5.678  | 117  | 4095     | 2.174 | ug/L # | 58       |
| 33) Benzene                   | 6.037  | 78   | 10212m   | 2.106 | ug/L   |          |
| 35) Methylcyclohexane         | 7.385  | 83   | 4215     | 2.127 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 7.433  | 63   | 2687     | 2.247 | ug/L # | 85       |
| 38) Bromodichloromethane      | 7.824  | 83   | 3541     | 2.006 | ug/L   | 91       |
| 39) cis-1,3-Dichloropropene   | 8.372  | 75   | 3897     | 2.005 | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 6643     | 4.485 | ug/L   | 98       |
| 42) Toluene                   | 8.720  | 91   | 11645    | 2.124 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 3733     | 2.046 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 2922     | 2.257 | ug/L   | 89       |
| 46) Tetrachloroethene         | 9.275  | 164  | 2389     | 2.093 | ug/L   | 96       |
| 49) Dibromochloromethane      | 9.525  | 129  | 3221     | 2.131 | ug/L   | 90       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 2994     | 2.142 | ug/L # | 90       |
| 51) Chlorobenzene             | 10.079 | 112  | 7835     | 2.154 | ug/L   | 97       |
| 52) Ethylbenzene              | 10.195 | 91   | 12202    | 2.032 | ug/L   | 96       |
| 53) m,p-Xylene                | 10.299 | 106  | 4817     | 2.011 | ug/L   | 98       |
| 54) o-Xylene                  | 10.646 | 106  | 4477     | 1.911 | ug/L   | 99       |
| 55) Styrene                   | 10.659 | 104  | 7444     | 1.886 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 4773     | 2.521 | ug/L # | 91       |
| 59) Bromoform                 | 10.799 | 173  | 2064     | 2.048 | ug/L   | 99       |
| 60) Isopropylbenzene          | 10.963 | 105  | 11985    | 2.094 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 3517     | 2.580 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 9870     | 2.030 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 9396     | 1.966 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 5990     | 2.292 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 12.042 | 146  | 5836     | 2.207 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 5947     | 2.305 | ug/L # | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 821m     | 2.240 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 13.115 | 180  | 3566     | 2.039 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 3110     | 1.963 | ug/L   | 95       |
| 71) Naphthalene               | 13.780 | 128  | 9922     | 1.917 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 3163     | 2.001 | ug/L   | 92       |

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

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