

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120524\  
 Data File : VU062094.D  
 Acq On : 05 Dec 2024 12:08  
 Operator : MD/SY  
 Sample : P4776-06  
 Misc : 5.00g/5mL/100uL/5ML/MSVOA\_U/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT4-2024-08

Quant Time: Dec 06 01:01:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112724WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 06 00:44:17 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh  
 Dadoda

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.238   | 114   | 168791   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.409   | 117   | 154853   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804  | 152   | 73670    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596   | 65    | 49641    | 42.447   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.900%  |
| 7) Chloroethane-d5            | 1.898   | 69    | 39167    | 46.469   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 92.940%  |
| 11) 1,1-Dichloroethene-d2     | 2.557   | 63    | 76408    | 34.459   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 68.920%  |
| 21) 2-Butanone-d5             | 4.618   | 46    | 71518    | 89.991   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 89.990%  |
| 24) Chloroform-d              | 5.052   | 84    | 111136   | 45.531   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.060%  |
| 26) 1,2-Dichloroethane-d4     | 5.689   | 65    | 75380    | 48.407   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.820%  |
| 32) Benzene-d6                | 5.714   | 84    | 212058   | 47.889   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.780%  |
| 36) 1,2-Dichloropropane-d6    | 6.679   | 67    | 67547    | 48.540   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.080%  |
| 41) Toluene-d8                | 7.888   | 98    | 193931   | 47.308   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.620%  |
| 43) trans-1,3-Dichloroprop... | 8.171   | 79    | 32934    | 47.356   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.720%  |
| 47) 2-Hexanone-d5             | 8.624   | 63    | 48768    | 93.033   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.030%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.746  | 84    | 94624    | 46.726   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 93.460%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.184  | 152   | 71508    | 49.341   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.680%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.380   | 85    | 3460     | 2.147    | ug/L   | 90       |
| 3) Chloromethane              | 1.515   | 50    | 2982     | 2.245    | ug/L   | 92       |
| 5) Vinyl chloride             | 1.602   | 62    | 2820     | 2.059    | ug/L # | 36       |
| 6) Bromomethane               | 1.840   | 94    | 1638     | 2.177    | ug/L   | 99       |
| 8) Chloroethane               | 1.923   | 64    | 2170m    | 2.750    | ug/L   |          |
| 9) Trichlorofluoromethane     | 2.129   | 101   | 4600     | 2.197    | ug/L   | 94       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.567   | 101   | 3119     | 2.657    | ug/L # | 74       |
| 12) 1,1-Dichloroethene        | 2.567   | 96    | 2785     | 2.608    | ug/L # | 1        |
| 13) Acetone                   | 2.628   | 43    | 3656     | 3.842    | ug/L   | 71       |
| 14) Carbon disulfide          | 2.782   | 76    | 6735     | 2.097    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.952   | 43    | 2249     | 1.916    | ug/L # | 75       |
| 16) Methylene chloride        | 3.036   | 84    | 2810     | 2.308    | ug/L   | 91       |
| 17) trans-1,2-Dichloroethene  | 3.351   | 96    | 2284     | 2.081    | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 3.354   | 73    | 7475     | 2.020    | ug/L # | 87       |
| 19) 1,1-Dichloroethane        | 3.859   | 63    | 4289     | 2.039    | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.660   | 96    | 2562     | 2.049    | ug/L   | 97       |
| 22) 2-Butanone                | 4.724   | 43    | 3944m    | 3.842    | ug/L   |          |
| 23) Bromochloromethane        | 4.968   | 128   | 1337     | 2.056    | ug/L # | 75       |
| 25) Chloroform                | 5.081   | 83    | 5188     | 2.272    | ug/L   | 83       |

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Manual Integrations  
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Reviewed By :Mahesh  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.795  | 62   | 3994     | 2.190 | ug/L   | 97       |
| 29) Cyclohexane               | 5.377  | 56   | 3309     | 1.871 | ug/L # | 76       |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 4235     | 2.114 | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 3799     | 2.122 | ug/L   | 95       |
| 33) Benzene                   | 5.766  | 78   | 9818m    | 2.131 | ug/L   |          |
| 34) Trichloroethene           | 6.541  | 95   | 2676     | 2.127 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.750  | 83   | 4074     | 2.136 | ug/L # | 76       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 2641     | 2.166 | ug/L # | 88       |
| 38) Bromodichloromethane      | 7.100  | 83   | 3467     | 2.110 | ug/L   | 90       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 4103     | 2.084 | ug/L # | 82       |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 5861     | 3.848 | ug/L   | 94       |
| 42) Toluene                   | 7.962  | 91   | 10375    | 2.106 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 3896     | 2.140 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 2783     | 2.300 | ug/L   | 95       |
| 46) Tetrachloroethene         | 8.544  | 164  | 1980     | 2.071 | ug/L   | 86       |
| 48) 2-Hexanone                | 8.679  | 43   | 9564m    | 7.449 | ug/L   |          |
| 49) Dibromochloromethane      | 8.804  | 129  | 2464     | 1.949 | ug/L   | 86       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 2619     | 1.992 | ug/L # | 97       |
| 51) Chlorobenzene             | 9.444  | 112  | 6796     | 2.184 | ug/L   | 93       |
| 52) Ethylbenzene              | 9.566  | 91   | 10855    | 2.006 | ug/L   | 94       |
| 53) m,p-Xylene                | 9.692  | 106  | 3751     | 1.875 | ug/L   | 85       |
| 54) o-Xylene                  | 10.097 | 106  | 3515     | 1.796 | ug/L   | 83       |
| 55) Styrene                   | 10.116 | 104  | 5487     | 1.666 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.772 | 83   | 3998     | 2.002 | ug/L # | 97       |
| 59) Bromoform                 | 10.283 | 173  | 1369     | 1.474 | ug/L # | 84       |
| 60) 1,2,3-Trichloropropane    | 10.814 | 75   | 3158     | 2.098 | ug/L   | 98       |
| 61) Isopropylbenzene          | 10.479 | 105  | 9042     | 1.823 | ug/L # | 91       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 7557     | 1.789 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 7285     | 1.792 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 4662     | 2.034 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 5172     | 2.223 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.203 | 146  | 4728     | 2.088 | ug/L # | 89       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 835m     | 1.968 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 13.219 | 180  | 2413     | 1.495 | ug/L # | 74       |
| 70) 1,2,4-trichlorobenzene    | 13.849 | 180  | 2893     | 2.100 | ug/L # | 54       |
| 71) Naphthalene               | 14.103 | 128  | 5282m    | 1.415 | ug/L   |          |
| 72) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 1920     | 1.444 | ug/L   | 87       |

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

