

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU022824\  
 Data File : VU057960.D  
 Acq On : 28 Feb 2024 13:51  
 Operator : MD/SY  
 Sample : P1601-06  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT1-2024-02

Manual Integrations  
 APPROVED

Reviewed By :Mahesh  
 Dadoda

Quant Time: Feb 29 00:19:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM021924WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 29 00:08:26 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242   | 114   | 258721   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412   | 117   | 249550   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.808  | 152   | 118153   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.593   | 65    | 86481    | 46.171   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 92.340%  |
| 7) Chloroethane-d5            | 1.904   | 69    | 69161    | 49.956   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 99.920%  |
| 11) 1,1-Dichloroethene-d2     | 2.557   | 63    | 116848   | 33.474   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 66.940%  |
| 21) 2-Butanone-d5             | 4.612   | 46    | 85275    | 119.822  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 119.820% |
| 24) Chloroform-d              | 5.052   | 84    | 151087   | 47.570   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.140%  |
| 26) 1,2-Dichloroethane-d4     | 5.692   | 65    | 100303   | 50.378   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.760% |
| 32) Benzene-d6                | 5.718   | 84    | 304669   | 48.717   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.440%  |
| 36) 1,2-Dichloropropane-d6    | 6.682   | 67    | 100862   | 49.947   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 99.900%  |
| 41) Toluene-d8                | 7.891   | 98    | 269508   | 47.607   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.220%  |
| 43) trans-1,3-Dichloroprop... | 8.174   | 79    | 44576    | 46.354   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.700%  |
| 47) 2-Hexanone-d5             | 8.628   | 63    | 55750    | 71.813   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 71.810%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750  | 84    | 122003   | 43.783   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 87.560%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187  | 152   | 91592    | 47.875   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.740%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.377   | 85    | 4436     | 1.564    | ug/L   | 98       |
| 3) Chloromethane              | 1.515   | 50    | 4623     | 1.603    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.599   | 62    | 5124     | 1.799    | ug/L   | 83       |
| 6) Bromomethane               | 1.850   | 94    | 2783     | 2.503    | ug/L   | 99       |
| 8) Chloroethane               | 1.927   | 64    | 2873     | 1.725    | ug/L # | 79       |
| 9) Trichlorofluoromethane     | 2.133   | 101   | 6337     | 1.819    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570   | 101   | 4394     | 2.170    | ug/L # | 83       |
| 12) 1,1-Dichloroethene        | 2.570   | 96    | 4272     | 2.281    | ug/L # | 1        |
| 13) Acetone                   | 2.618   | 43    | 4462     | 3.386    | ug/L   | 95       |
| 14) Carbon disulfide          | 2.785   | 76    | 11030    | 1.799    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.949   | 43    | 3174     | 1.480    | ug/L   | 98       |
| 16) Methylene chloride        | 3.036   | 84    | 5156     | 2.112    | ug/L   | 90       |
| 17) trans-1,2-Dichloroethene  | 3.348   | 96    | 3409     | 1.754    | ug/L   | 92       |
| 18) Methyl tert-butyl Ether   | 3.348   | 73    | 11647    | 1.721    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.859   | 63    | 7486     | 1.858    | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.657   | 96    | 4391     | 1.970    | ug/L   | 79       |
| 22) 2-Butanone                | 4.718   | 43    | 5513m    | 3.453    | ug/L   |          |
| 23) Bromochloromethane        | 4.962   | 128   | 1775m    | 1.639    | ug/L   |          |
| 27) 1,2-Dichloroethane        | 5.789   | 62    | 5877     | 1.775    | ug/L   | 98       |

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Reviewed By :Mahesh  
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 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 29 00:08:26 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |                                       |
|-------------------------------|--------|------|----------|-------|--------|----------|---------------------------------------|
| 29) Cyclohexane               | 5.380  | 56   | 6229     | 1.696 | ug/L   | 95       | 02/29/2024                            |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 5889     | 1.751 | ug/L   | 96       | Supervised By :Semsettin<br>Yesilyurt |
| 31) Carbon tetrachloride      | 5.525  | 117  | 4684     | 1.622 | ug/L   | 90       |                                       |
| 34) Trichloroethene           | 6.538  | 95   | 4070     | 1.819 | ug/L   | 85       |                                       |
| 35) Methylcyclohexane         | 6.753  | 83   | 6515     | 1.792 | ug/L   | 96       |                                       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 4474     | 1.822 | ug/L # | 92       |                                       |
| 38) Bromodichloromethane      | 7.100  | 83   | 5374     | 1.822 | ug/L # | 95       | 02/29/2024                            |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 6472     | 1.724 | ug/L   | 98       |                                       |
| 42) Toluene                   | 7.965  | 91   | 15614    | 1.733 | ug/L   | 95       |                                       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 6427     | 1.845 | ug/L   | 94       |                                       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 3725     | 1.707 | ug/L   | 96       |                                       |
| 46) Tetrachloroethene         | 8.550  | 164  | 2601     | 1.689 | ug/L   | 95       |                                       |
| 49) Dibromochloromethane      | 8.804  | 129  | 3538     | 1.628 | ug/L   | 97       |                                       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 4183     | 1.821 | ug/L # | 95       |                                       |
| 51) Chlorobenzene             | 9.444  | 112  | 10621    | 1.854 | ug/L   | 96       |                                       |
| 52) Ethylbenzene              | 9.566  | 91   | 17315    | 1.714 | ug/L   | 95       |                                       |
| 53) m,p-Xylene                | 9.692  | 106  | 5885     | 1.602 | ug/L   | 81       |                                       |
| 54) o-Xylene                  | 10.097 | 106  | 5417     | 1.493 | ug/L   | 93       |                                       |
| 55) Styrene                   | 10.113 | 104  | 9394     | 1.509 | ug/L   | 87       |                                       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 6534     | 1.758 | ug/L   | 95       |                                       |
| 60) 1,2,3-Trichloropropane    | 10.817 | 75   | 4460     | 1.629 | ug/L   | 97       |                                       |
| 61) Isopropylbenzene          | 10.480 | 105  | 15743    | 1.705 | ug/L   | 97       |                                       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 11855    | 1.490 | ug/L   | 99       |                                       |
| 63) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 12014    | 1.503 | ug/L   | 98       |                                       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 7597     | 1.861 | ug/L   | 97       |                                       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 8338     | 2.005 | ug/L   | 94       |                                       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 7029     | 1.750 | ug/L   | 90       |                                       |
| 68) 1,2-Dibromo-3-chloropr... | 12.997 | 75   | 944m     | 1.452 | ug/L   |          |                                       |
| 69) 1,3,5-Trichlorobenzene    | 13.219 | 180  | 4290     | 1.562 | ug/L   | 92       |                                       |
| 70) 1,2,4-trichlorobenzene    | 13.843 | 180  | 3832     | 1.733 | ug/L   | 89       |                                       |
| 71) Naphthalene               | 14.094 | 128  | 9340m    | 1.591 | ug/L   |          |                                       |
| 72) 1,2,3-Trichlorobenzene    | 14.332 | 180  | 3476     | 1.712 | ug/L   | 92       |                                       |

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

