

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U090922\  
 Data File : VU050701.D  
 Acq On : 09 Sep 2022 14:47  
 Operator : SY/MD  
 Sample : N4519-01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-QT4-2022-07

Quant Time: Sep 10 01:42:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM090222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 10 01:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 333635   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 327498   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.813  | 152   | 126491   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.598   | 65    | 88407    | 30.981   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 61.960%  |
| 7) Chloroethane-d5            | 1.903   | 69    | 70170    | 36.363   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 72.720%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 138249   | 27.415   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 54.840%# |
| 21) 2-Butanone-d5             | 4.620   | 46    | 167911   | 80.425   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 80.430%  |
| 24) Chloroform-d              | 5.060   | 84    | 224672   | 41.541   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.080%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 143201   | 43.329   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.660%  |
| 32) Benzene-d6                | 5.726   | 84    | 427506   | 39.500   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 79.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.691   | 67    | 144430   | 40.646   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 81.300%  |
| 41) Toluene-d8                | 7.900   | 98    | 361910   | 39.104   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 78.200%# |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 61214    | 41.636   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 83.280%  |
| 47) 2-Hexanone-d5             | 8.633   | 63    | 66282    | 74.158   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 74.160%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 227776   | 42.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 84.720%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 131072   | 44.265   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.540%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 5305     | 1.655    | ug/L   | 96       |
| 3) Chloromethane              | 1.524   | 50    | 5967     | 1.723    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.601   | 62    | 4650     | 1.425    | ug/L # | 56       |
| 6) Bromomethane               | 1.842   | 94    | 2647     | 1.609    | ug/L   | 85       |
| 8) Chloroethane               | 1.926   | 64    | 3244     | 1.872    | ug/L   | 92       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 7176     | 1.805    | ug/L   | 91       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.572   | 101   | 6348     | 2.435    | ug/L # | 83       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 5800     | 2.289    | ug/L # | 1        |
| 13) Acetone                   | 2.623   | 43    | 5995     | 3.807    | ug/L   | 96       |
| 14) Carbon disulfide          | 2.790   | 76    | 12987    | 1.729    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.948   | 43    | 5195     | 1.560    | ug/L   | 95       |
| 16) Methylene chloride        | 3.041   | 84    | 6002     | 1.805    | ug/L   | 95       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 4395     | 1.636    | ug/L   | 90       |
| 18) Methyl tert-butyl Ether   | 3.360   | 73    | 12399    | 1.489    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.868   | 63    | 8494     | 1.639    | ug/L   | 94       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 4894     | 1.615    | ug/L   | 95       |
| 22) 2-Butanone                | 4.710   | 43    | 10140    | 4.116    | ug/L   | 92       |
| 23) Bromochloromethane        | 4.977   | 128   | 3152     | 2.012    | ug/L   | 78       |
| 27) 1,2-Dichloroethane        | 5.797   | 62    | 6512     | 1.664    | ug/L # | 93       |

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 MDL-WATER-QT4-2022-07

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 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 10 01:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| 29) Cyclohexane               | 5.388  | 56   | 6319     | 1.441  | ug/L # | 90       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 8132     | 1.844  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 6870     | 1.901  | ug/L   | 100      |
| 33) Benzene                   | 5.774  | 78   | 20836    | 1.748  | ug/L   | 100      |
| 35) Methylcyclohexane         | 6.765  | 83   | 7104     | 1.609  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.794  | 63   | 5860     | 1.861  | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.105  | 83   | 6778     | 1.830  | ug/L # | 96       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 7076     | 1.661  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 11275    | 2.628  | ug/L   | 97       |
| 42) Toluene                   | 7.970  | 91   | 20160    | 1.665  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 7235     | 1.810  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 5901     | 1.951  | ug/L   | 94       |
| 46) Tetrachloroethene         | 8.556  | 164  | 3953     | 1.949  | ug/L   | 86       |
| 48) 2-Hexanone                | 8.684  | 43   | 44619m   | 11.144 | ug/L   |          |
| 49) Dibromochloromethane      | 8.810  | 129  | 5426     | 1.881  | ug/L   | 93       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 5890     | 1.915  | ug/L # | 89       |
| 51) Chlorobenzene             | 9.446  | 112  | 13615    | 1.812  | ug/L   | 95       |
| 52) Ethylbenzene              | 9.572  | 91   | 18481    | 1.545  | ug/L   | 96       |
| 53) m,p-Xylene                | 9.694  | 106  | 6415     | 1.400  | ug/L   | 97       |
| 54) o-Xylene                  | 10.102 | 106  | 6766     | 1.483  | ug/L   | 83       |
| 55) Styrene                   | 10.118 | 104  | 9163     | 1.221  | ug/L   | 94       |
| 57) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 10166    | 1.887  | ug/L # | 93       |
| 59) Bromoform                 | 10.289 | 173  | 3921     | 2.078  | ug/L   | 96       |
| 60) 1,2,3-Trichloropropane    | 10.826 | 75   | 6945     | 1.871  | ug/L   | 91       |
| 61) Isopropylbenzene          | 10.485 | 105  | 14279    | 1.426  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 11868    | 1.386  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.472 | 105  | 10643    | 1.295  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 7711     | 1.750  | ug/L   | 89       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 8632     | 1.982  | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 9033     | 1.925  | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 5175     | 1.619  | ug/L   | 97       |
| -----                         |        |      |          |        |        |          |

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

