

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101922\  
 Data File : VU051458.D  
 Acq On : 19 Oct 2022 15:16  
 Operator : JC/MD  
 Sample : N3980-09 0.8PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT3-2022

Quant Time: Oct 20 07:42:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U101722DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Oct 20 07:37:57 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.112  | 96   | 47343    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.632 | 95   | 14022    | 0.844 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 84.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.192 | 152  | 16643    | 0.897 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 90.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 11761    | 0.711 | ug/l    | 97       |
| 3) Chloromethane             | 1.533  | 50   | 19715    | 0.757 | ug/l    | 98       |
| 4) Vinyl Chloride            | 1.604  | 62   | 16233    | 0.720 | ug/l    | 98       |
| 5) Bromomethane              | 1.855  | 94   | 11486    | 0.913 | ug/l    | 98       |
| 6) Chloroethane              | 1.932  | 64   | 10954    | 0.852 | ug/l    | 95       |
| 7) Trichlorofluoromethane    | 2.137  | 101  | 18637    | 0.740 | ug/l    | 96       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 10600    | 0.763 | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.581  | 96   | 11718    | 0.807 | ug/l    | 96       |
| 10) Iodomethane              | 2.719  | 142  | 14190    | 0.754 | ug/l    | 99       |
| 11) Allyl Chloride           | 2.922  | 41   | 17270    | 0.779 | ug/l    | 97       |
| 12) Acrylonitrile            | 3.317  | 53   | 7187     | 1.681 | ug/l    | 99       |
| 13) Acetone                  | 2.629  | 43   | 11844    | 3.847 | ug/l    | 100      |
| 14) Carbon Disulfide         | 2.790  | 76   | 38864    | 0.751 | ug/l    | 95       |
| 15) Methylene Chloride       | 3.041  | 84   | 21784    | 1.024 | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene | 3.350  | 96   | 12899    | 0.774 | ug/l    | 92       |
| 17) 1,1-Dichloroethane       | 3.867  | 63   | 23147    | 0.773 | ug/l    | 99       |
| 18) 2-Butanone               | 4.723  | 43   | 12044    | 3.224 | ug/l    | 99       |
| 19) Cyclohexane              | 5.382  | 56   | 10793m   | 0.581 | ug/l    |          |
| 20) Methylcyclohexane        | 6.761  | 83   | 10045    | 0.545 | ug/l    | # 86     |
| 21) 2,2-Dichloropropane      | 4.658  | 77   | 15459    | 0.739 | ug/l    | # 83     |
| 22) cis-1,2-Dichloroethene   | 4.665  | 96   | 11627    | 0.738 | ug/l    | 98       |
| 23) Diethyl Ether            | 2.379  | 59   | 9772     | 0.770 | ug/l    | 97       |
| 24) tert-Butyl Alcohol       | 3.192  | 59   | 9224     | 6.933 | ug/l    | 99       |
| 25) Methyl tert-Butyl Ether  | 3.369  | 73   | 30004    | 0.794 | ug/l    | 94       |
| 26) Bromochloromethane       | 4.977  | 128  | 5856     | 0.762 | ug/l    | 99       |
| 27) Chloroform               | 5.089  | 83   | 23849    | 0.786 | ug/l    | 96       |
| 28) 1,1,1-Trichloroethane    | 5.314  | 97   | 18017    | 0.744 | ug/l    | 97       |
| 29) 1,1-Dichloropropene      | 5.526  | 75   | 11633    | 0.627 | ug/l    | 96       |
| 30) Carbon Tetrachloride     | 5.523  | 117  | 14927    | 0.731 | ug/l    | 93       |
| 31) Isopropyl Ether          | 3.999  | 45   | 25180    | 0.711 | ug/l    | 92       |
| 32) Ethyl-t-butyl ether      | 4.507  | 59   | 21660    | 0.670 | ug/l    | 98       |
| 33) Tert-Amyl methyl ether   | 5.944  | 73   | 17762    | 0.625 | ug/l    | 98       |
| 34) Propionitrile            | 4.790  | 54   | 3940     | 3.137 | ug/l    | # 94     |
| 35) Benzene                  | 5.774  | 78   | 42856    | 0.689 | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.797  | 62   | 13901    | 0.724 | ug/l    | 99       |
| 37) Trichloroethene          | 6.539  | 130  | 10381    | 0.711 | ug/l    | 87       |
| 38) 1,2-Dichloropropane      | 6.790  | 63   | 11751    | 0.688 | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.993  | 41   | 2885m    | 0.672 | ug/l    |          |
| 40) Methyl acrylate          | 4.864  | 55   | 4266m    | 0.623 | ug/l    |          |
| 41) Tetrahydrofuran          | 5.067  | 42   | 2703     | 1.199 | ug/l    | 90       |
| 42) 1-Chlorobutane           | 5.459  | 56   | 15890    | 0.628 | ug/l    | 96       |
| 43) Dibromomethane           | 6.919  | 93   | 6737     | 0.760 | ug/l    | 94       |
| 44) Bromodichloromethane     | 7.105  | 83   | 16087    | 0.750 | ug/l    | 96       |

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### Manual Integrations APPROVED

Reviewed By :Krupa Patel 10/20/2022  
 Supervised By :Mahesh Dadoda 10/25/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.793  | 43   | 23547    | 2.792 | ug/l   | 94       |
| 46) t-1,4-Dichloro-2-butene   | 10.825 | 75   | 8047m    | 1.709 | ug/l   |          |
| 47) Methyl methacrylate       | 6.967  | 69   | 7718     | 1.139 | ug/l   | 98       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 6362     | 0.561 | ug/l   | 95       |
| 49) Toluene                   | 7.970  | 92   | 19221    | 0.563 | ug/l   | 92       |
| 50) t-1,3-Dichloropropene     | 8.211  | 75   | 10995    | 0.638 | ug/l   | 92       |
| 51) cis-1,3-Dichloropropene   | 7.607  | 75   | 12488    | 0.614 | ug/l   | 97       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 9166     | 0.724 | ug/l   | 97       |
| 53) 1,3-Dichloropropane       | 8.575  | 76   | 13407    | 0.658 | ug/l   | 93       |
| 54) 2-Hexanone                | 8.690  | 43   | 16045    | 2.766 | ug/l   | 89       |
| 55) Dibromochloromethane      | 8.809  | 129  | 10212    | 0.742 | ug/l   | 98       |
| 56) 1,2-Dibromoethane         | 8.922  | 107  | 7994     | 0.719 | ug/l   | 95       |
| 58) Tetrachloroethene         | 8.552  | 164  | 8839     | 0.694 | ug/l   | 93       |
| 59) Chlorobenzene             | 9.446  | 112  | 23417    | 0.625 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 10725    | 0.747 | ug/l   | 96       |
| 61) Pentachloroethane         | 11.423 | 117  | 8999     | 0.703 | ug/l   | 99       |
| 62) Hexachloroethane          | 12.475 | 117  | 8673     | 0.714 | ug/l   | 97       |
| 63) Ethyl Benzene             | 9.571  | 91   | 30438    | 0.536 | ug/l   | 98       |
| 64) m/p-Xylenes               | 9.693  | 106  | 22781    | 1.006 | ug/l   | 96       |
| 65) o-Xylene                  | 10.102 | 106  | 11353    | 0.515 | ug/l   | 96       |
| 66) Styrene                   | 10.115 | 104  | 17332    | 0.474 | ug/l   | 97       |
| 67) Bromoform                 | 10.288 | 173  | 5427     | 0.703 | ug/l   | 99       |
| 69) Isopropylbenzene          | 10.481 | 105  | 28277    | 0.521 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 12382    | 0.724 | ug/l   | 96       |
| 71) 1,2,3-Trichloropropane    | 10.825 | 75   | 9600m    | 0.755 | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 9050     | 0.607 | ug/l   | 98       |
| 73) n-propylbenzene           | 10.902 | 120  | 7332     | 0.481 | ug/l   | 92       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 7656     | 0.528 | ug/l   | 89       |
| 75) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 22952    | 0.467 | ug/l   | 96       |
| 76) 4-Chlorotoluene           | 11.099 | 126  | 7711     | 0.520 | ug/l   | 88       |
| 77) tert-Butylbenzene         | 11.417 | 119  | 26561    | 0.553 | ug/l   | 93       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 24181    | 0.473 | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.642 | 105  | 30051    | 0.473 | ug/l   | 98       |
| 80) Nitrobenzene              | 13.211 | 77   | 2394m    | 2.826 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 23438    | 0.461 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.745 | 146  | 19545    | 0.611 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene       | 11.835 | 146  | 18904    | 0.603 | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.211 | 91   | 23961    | 0.475 | ug/l   | 96       |
| 85) 1,2-Dichlorobenzene       | 12.211 | 146  | 18996    | 0.602 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 1911     | 0.714 | ug/l # | 89       |
| 87) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 9773     | 0.572 | ug/l   | 95       |
| 88) Hexachlorobutadiene       | 14.021 | 225  | 7649     | 0.687 | ug/l   | 97       |
| 89) Naphthalene               | 14.089 | 128  | 14081    | 0.394 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 9162     | 0.490 | ug/l   | 96       |

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

