

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081722\  
 Data File : VU050351.D  
 Acq On : 17 Aug 2022 10:21  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC002

Quant Time: Aug 17 11:53:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U081722DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Aug 17 11:51:32 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|------|----------|--------|----------|----------|
| -----                        |        |      |          |        |          |          |
| Internal Standards           |        |      |          |        |          |          |
| 1) Fluorobenzene             | 6.115  | 96   | 37091    | 1.000  | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |          |          |
| 57) 4-Bromofluorobenzene     | 10.636 | 95   | 12408    | 0.913  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 91.000%  |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.192 | 152  | 14972    | 1.197  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 120.000% |          |
| Target Compounds             |        |      |          |        |          |          |
|                              |        |      |          |        |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 25399    | 1.788  | ug/l     | 99       |
| 3) Chloromethane             | 1.520  | 50   | 33889    | 2.333  | ug/l     | 97       |
| 4) Vinyl Chloride            | 1.604  | 62   | 29251    | 2.208  | ug/l     | 98       |
| 5) Bromomethane              | 1.858  | 94   | 13463    | 1.949  | ug/l     | 100      |
| 6) Chloroethane              | 1.935  | 64   | 18963    | 2.556  | ug/l     | 96       |
| 7) Trichlorofluoromethane    | 2.141  | 101  | 33440    | 2.106  | ug/l     | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.584  | 101  | 17854    | 2.140  | ug/l     | 97       |
| 9) 1,1-Dichloroethene        | 2.584  | 96   | 19926    | 2.369  | ug/l     | 98       |
| 10) Iodomethane              | 2.723  | 142  | 18158    | 1.702  | ug/l     | 96       |
| 11) Allyl Chloride           | 2.925  | 41   | 33554    | 2.340  | ug/l     | 94       |
| 12) Acrylonitrile            | 3.321  | 53   | 13463    | 5.988  | ug/l     | 97       |
| 13) Acetone                  | 2.636  | 43   | 23805    | 13.418 | ug/l     | 90       |
| 14) Carbon Disulfide         | 2.793  | 76   | 67491    | 2.437  | ug/l     | 100      |
| 15) Methylene Chloride       | 3.047  | 84   | 28591    | 2.715  | ug/l     | 96       |
| 16) trans-1,2-Dichloroethene | 3.350  | 96   | 21953    | 2.486  | ug/l     | 98       |
| 17) 1,1-Dichloroethane       | 3.871  | 63   | 46684    | 2.556  | ug/l     | 97       |
| 18) 2-Butanone               | 4.732  | 43   | 35220    | 11.646 | ug/l     | 100      |
| 19) Cyclohexane              | 5.375  | 56   | 22000m   | 1.260  | ug/l     |          |
| 20) Methylcyclohexane        | 6.758  | 83   | 20204    | 1.174  | ug/l     | 96       |
| 21) 2,2-Dichloropropane      | 4.655  | 77   | 32059    | 2.145  | ug/l     | 98       |
| 22) cis-1,2-Dichloroethene   | 4.662  | 96   | 25896    | 2.378  | ug/l     | 98       |
| 23) Diethyl Ether            | 2.382  | 59   | 18936    | 2.643  | ug/l     | 95       |
| 24) tert-Butyl Alcohol       | 3.218  | 59   | 26708    | 32.675 | ug/l     | 97       |
| 25) Methyl tert-Butyl Ether  | 3.372  | 73   | 58355    | 2.481  | ug/l     | 97       |
| 26) Bromochloromethane       | 4.973  | 128  | 11962    | 2.609  | ug/l     | 95       |
| 27) Chloroform               | 5.089  | 83   | 44181    | 2.458  | ug/l     | 99       |
| 28) 1,1,1-Trichloroethane    | 5.311  | 97   | 33239    | 2.097  | ug/l     | 98       |
| 29) 1,1-Dichloropropene      | 5.523  | 75   | 24539    | 1.734  | ug/l     | 97       |
| 30) Carbon Tetrachloride     | 5.517  | 117  | 26886    | 2.015  | ug/l     | 97       |
| 31) Isopropyl Ether          | 4.002  | 45   | 71254    | 2.275  | ug/l     | 96       |
| 32) Ethyl-t-butyl ether      | 4.514  | 59   | 58924    | 1.988  | ug/l     | 99       |
| 33) Tert-Amyl methyl ether   | 5.951  | 73   | 33780    | 1.311  | ug/l     | # 97     |
| 34) Propionitrile            | 4.800  | 54   | 12529    | 14.449 | ug/l     | # 99     |
| 35) Benzene                  | 5.771  | 78   | 88410    | 2.192  | ug/l     | 98       |
| 36) 1,2-Dichloroethane       | 5.800  | 62   | 28192    | 2.458  | ug/l     | 97       |
| 37) Trichloroethene          | 6.543  | 130  | 21527    | 2.112  | ug/l     | 95       |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 24700    | 2.313  | ug/l     | 100      |
| 39) Methacrylonitrile        | 4.986  | 41   | 7368     | 1.983  | ug/l     | # 88     |
| 40) Methyl acrylate          | 4.861  | 55   | 13317    | 2.289  | ug/l     | # 93     |
| 41) Tetrahydrofuran          | 5.080  | 42   | 8393     | 3.822  | ug/l     | 95       |
| 42) 1-Chlorobutane           | 5.456  | 56   | 34693    | 1.748  | ug/l     | 97       |
| 43) Dibromomethane           | 6.922  | 93   | 13626    | 2.561  | ug/l     | 98       |
| 44) Bromodichloromethane     | 7.108  | 83   | 31440    | 2.466  | ug/l     | 95       |

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 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC002

Quant Time: Aug 17 11:53:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U081722DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Aug 17 11:51:32 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.806  | 43   | 69133    | 9.574  | ug/l  | 96       |
| 46) t-1,4-Dichloro-2-butene   | 10.832 | 75   | 9217m    | 3.922  | ug/l  |          |
| 47) Methyl methacrylate       | 6.970  | 69   | 19608    | 3.655  | ug/l  | 96       |
| 48) Ethyl methacrylate        | 8.340  | 69   | 17630    | 1.638  | ug/l  | 95       |
| 49) Toluene                   | 7.970  | 92   | 47479    | 1.928  | ug/l  | 99       |
| 50) t-1,3-Dichloropropene     | 8.211  | 75   | 25385    | 2.061  | ug/l  | 97       |
| 51) cis-1,3-Dichloropropene   | 7.610  | 75   | 27900    | 1.911  | ug/l  | 93       |
| 52) 1,1,2-Trichloroethane     | 8.404  | 97   | 20313    | 2.767  | ug/l  | 96       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 30925    | 2.347  | ug/l  | 99       |
| 54) 2-Hexanone                | 8.694  | 43   | 46750    | 9.322  | ug/l  | 94       |
| 55) Dibromochloromethane      | 8.809  | 129  | 21603    | 2.576  | ug/l  | 98       |
| 56) 1,2-Dibromoethane         | 8.925  | 107  | 17651    | 2.483  | ug/l  | 96       |
| 58) Tetrachloroethene         | 8.552  | 164  | 19356    | 2.284  | ug/l  | 98       |
| 59) Chlorobenzene             | 9.446  | 112  | 52513    | 2.038  | ug/l  | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 22179    | 2.420  | ug/l  | 97       |
| 61) Pentachloroethane         | 11.430 | 117  | 17749    | 2.522  | ug/l  | 93       |
| 62) Hexachloroethane          | 12.475 | 117  | 13840    | 1.964  | ug/l  | 93       |
| 63) Ethyl Benzene             | 9.571  | 91   | 75970    | 1.638  | ug/l  | 99       |
| 64) m/p-Xylenes               | 9.694  | 106  | 57615    | 3.359  | ug/l  | 98       |
| 65) o-Xylene                  | 10.099 | 106  | 28776    | 1.707  | ug/l  | 100      |
| 66) Styrene                   | 10.115 | 104  | 45259    | 1.671  | ug/l  | 99       |
| 67) Bromoform                 | 10.292 | 173  | 12343    | 2.579  | ug/l  | 99       |
| 69) Isopropylbenzene          | 10.484 | 105  | 71228    | 1.582  | ug/l  | 97       |
| 70) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 27418    | 2.874  | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane    | 10.825 | 75   | 19699m   | 2.494  | ug/l  |          |
| 72) Bromobenzene              | 10.784 | 156  | 22610    | 2.228  | ug/l  | 95       |
| 73) n-propylbenzene           | 10.906 | 120  | 17890    | 1.574  | ug/l  | 97       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 19430    | 1.918  | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 61072    | 1.622  | ug/l  | 100      |
| 76) 4-Chlorotoluene           | 11.099 | 126  | 18845    | 1.854  | ug/l  | 90       |
| 77) tert-Butylbenzene         | 11.420 | 119  | 62743    | 1.693  | ug/l  | 94       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 62199    | 1.646  | ug/l  | 99       |
| 79) sec-Butylbenzene          | 11.642 | 105  | 80810    | 1.662  | ug/l  | 97       |
| 80) Nitrobenzene              | 13.217 | 77   | 8038     | 20.599 | ug/l  | 98       |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 63742    | 1.616  | ug/l  | 99       |
| 82) 1,3-Dichlorobenzene       | 11.745 | 146  | 43950    | 2.239  | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 46366    | 2.341  | ug/l  | 98       |
| 84) n-Butylbenzene            | 12.208 | 91   | 59820    | 1.629  | ug/l  | 96       |
| 85) 1,2-Dichlorobenzene       | 12.211 | 146  | 45947    | 2.416  | ug/l  | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 4527     | 2.721  | ug/l  | 91       |
| 87) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 25298    | 1.972  | ug/l  | 96       |
| 88) Hexachlorobutadiene       | 14.018 | 225  | 15181    | 2.322  | ug/l  | 95       |
| 89) Naphthalene               | 14.089 | 128  | 49035    | 1.823  | ug/l  | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 25328    | 2.067  | ug/l  | 98       |

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

