

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101823\  
 Data File : VU055796.D  
 Acq On : 18 Oct 2023 11:32  
 Operator : MD/SY  
 Sample : VSTDICCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/19/2023  
 Supervised By : Mahesh Dadoda 10/24/2023

Quant Time: Oct 19 02:14:24 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U101823DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Oct 19 02:09:44 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc    | Units    | Dev(Min) |
|------------------------------|--------|------|----------|---------|----------|----------|
| -----                        |        |      |          |         |          |          |
| Internal Standards           |        |      |          |         |          |          |
| 1) Fluorobenzene             | 6.113  | 96   | 103120   | 1.000   | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |         |          |          |
| 57) 4-Bromofluorobenzene     | 10.630 | 95   | 40356    | 0.992   | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 99.000%  |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 39276    | 1.042   | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 104.000% |          |
| Target Compounds             |        |      |          |         |          |          |
|                              |        |      |          |         |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 441444   | 11.024  | ug/l     | 99       |
| 3) Chloromethane             | 1.515  | 50   | 367289   | 10.732  | ug/l     | 99       |
| 4) Vinyl Chloride            | 1.602  | 62   | 380391   | 10.845  | ug/l     | 100      |
| 5) Bromomethane              | 1.856  | 94   | 213023   | 11.034  | ug/l     | 99       |
| 6) Chloroethane              | 1.930  | 64   | 190730   | 11.227  | ug/l     | 99       |
| 7) Trichlorofluoromethane    | 2.136  | 101  | 503169   | 10.878  | ug/l     | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101  | 339012   | 10.994  | ug/l     | 94       |
| 9) 1,1-Dichloroethene        | 2.576  | 96   | 315494   | 10.970  | ug/l     | 93       |
| 10) Iodomethane              | 2.718  | 142  | 500044   | 11.596  | ug/l     | 97       |
| 11) Allyl Chloride           | 2.920  | 41   | 420942   | 11.259  | ug/l     | 95       |
| 12) Acrylonitrile            | 3.316  | 53   | 124161   | 22.973  | ug/l     | 99       |
| 13) Acetone                  | 2.634  | 43   | 626706   | 54.354  | ug/l     | 99       |
| 14) Carbon Disulfide         | 2.792  | 76   | 1040555  | 11.083  | ug/l     | 99       |
| 15) Methylene Chloride       | 3.042  | 84   | 353557   | 10.422  | ug/l     | 93       |
| 16) trans-1,2-Dichloroethene | 3.348  | 96   | 342882   | 11.248  | ug/l     | 97       |
| 17) 1,1-Dichloroethane       | 3.862  | 63   | 623836   | 11.004  | ug/l     | 100      |
| 18) 2-Butanone               | 4.701  | 43   | 717293   | 57.742  | ug/l     | 99       |
| 19) Cyclohexane              | 5.386  | 56   | 575888m  | 13.429  | ug/l     |          |
| 20) Methylcyclohexane        | 6.762  | 83   | 621138   | 12.362  | ug/l     | 97       |
| 21) 2,2-Dichloropropane      | 4.660  | 77   | 525586   | 11.010  | ug/l     | 99       |
| 22) cis-1,2-Dichloroethene   | 4.663  | 96   | 372789   | 11.473  | ug/l     | 99       |
| 23) Diethyl Ether            | 2.374  | 59   | 188087   | 10.939  | ug/l     | 96       |
| 24) tert-Butyl Alcohol       | 3.219  | 59   | 189607   | 111.000 | ug/l #   | 1        |
| 25) Methyl tert-Butyl Ether  | 3.357  | 73   | 714832   | 11.549  | ug/l     | 97       |
| 26) Bromochloromethane       | 4.968  | 128  | 151976   | 11.036  | ug/l     | 97       |
| 27) Chloroform               | 5.084  | 83   | 634664   | 10.909  | ug/l     | 98       |
| 28) 1,1,1-Trichloroethane    | 5.312  | 97   | 577239   | 11.071  | ug/l     | 97       |
| 29) 1,1-Dichloropropene      | 5.525  | 75   | 474576   | 11.491  | ug/l     | 99       |
| 30) Carbon Tetrachloride     | 5.521  | 117  | 505862   | 11.114  | ug/l     | 98       |
| 31) Isopropyl Ether          | 3.988  | 45   | 892624   | 11.720  | ug/l     | 92       |
| 32) Ethyl-t-butyl ether      | 4.496  | 59   | 858803   | 11.681  | ug/l     | 97       |
| 33) Tert-Amyl methyl ether   | 5.936  | 73   | 744250   | 11.812  | ug/l     | 97       |
| 34) Propionitrile            | 4.782  | 54   | 113765   | 59.521  | ug/l #   | 15       |
| 35) Benzene                  | 5.769  | 78   | 1400011  | 11.191  | ug/l     | 99       |
| 36) 1,2-Dichloroethane       | 5.791  | 62   | 371405   | 10.932  | ug/l     | 99       |
| 37) Trichloroethene          | 6.541  | 130  | 360090   | 11.064  | ug/l     | 98       |
| 38) 1,2-Dichloropropane      | 6.785  | 63   | 360446   | 11.033  | ug/l     | 100      |
| 39) Methacrylonitrile        | 4.968  | 41   | 86981    | 12.175  | ug/l     | 96       |
| 40) Methyl acrylate          | 4.843  | 55   | 163407   | 13.845  | ug/l     | 100      |
| 41) Tetrahydrofuran          | 5.055  | 42   | 89268    | 21.759  | ug/l     | 95       |
| 42) 1-Chlorobutane           | 5.454  | 56   | 635945   | 11.550  | ug/l     | 97       |
| 43) Dibromomethane           | 6.914  | 93   | 167535   | 10.789  | ug/l     | 99       |
| 44) Bromodichloromethane     | 7.103  | 83   | 451517   | 11.003  | ug/l     | 98       |

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Oct 19 02:09:44 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.788  | 43   | 932070   | 58.042 | ug/l   | 96       |
| 46) t-1,4-Dichloro-2-butene   | 10.833 | 75   | 131540m  | 23.793 | ug/l   |          |
| 47) Methyl methacrylate       | 6.959  | 69   | 312311   | 24.382 | ug/l   | 94       |
| 48) Ethyl methacrylate        | 8.331  | 69   | 296876   | 12.209 | ug/l   | 94       |
| 49) Toluene                   | 7.965  | 92   | 868400   | 11.729 | ug/l   | 96       |
| 50) t-1,3-Dichloropropene     | 8.206  | 75   | 414258   | 11.408 | ug/l   | 98       |
| 51) cis-1,3-Dichloropropene   | 7.605  | 75   | 513282   | 11.550 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane     | 8.396  | 97   | 234115   | 10.556 | ug/l   | 100      |
| 53) 1,3-Dichloropropane       | 8.573  | 76   | 411714   | 10.862 | ug/l   | 100      |
| 54) 2-Hexanone                | 8.682  | 43   | 1066481  | 59.280 | ug/l   | 96       |
| 55) Dibromochloromethane      | 8.807  | 129  | 291055   | 10.872 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 223141   | 11.012 | ug/l   | 98       |
| 58) Tetrachloroethene         | 8.550  | 164  | 352731   | 10.422 | ug/l   | 97       |
| 59) Chlorobenzene             | 9.444  | 112  | 909044   | 11.117 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.531  | 131  | 318122   | 10.916 | ug/l   | 98       |
| 61) Pentachloroethane         | 11.425 | 117  | 222190   | 11.265 | ug/l   | 89       |
| 62) Hexachloroethane          | 12.473 | 117  | 259302   | 12.418 | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.566  | 91   | 1657301  | 11.943 | ug/l   | 100      |
| 64) m/p-Xylenes               | 9.692  | 106  | 1280133  | 23.998 | ug/l   | 99       |
| 65) o-Xylene                  | 10.097 | 106  | 612434   | 11.700 | ug/l   | 97       |
| 66) Styrene                   | 10.113 | 104  | 1001871  | 12.239 | ug/l   | 97       |
| 67) Bromoform                 | 10.286 | 173  | 160471   | 11.161 | ug/l   | 99       |
| 69) Isopropylbenzene          | 10.483 | 105  | 1623931  | 12.051 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 283562   | 10.934 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane    | 10.820 | 75   | 233568m  | 11.207 | ug/l   |          |
| 72) Bromobenzene              | 10.778 | 156  | 360855   | 11.222 | ug/l   | 99       |
| 73) n-propylbenzene           | 10.904 | 120  | 446692   | 12.867 | ug/l   | 96       |
| 74) 2-Chlorotoluene           | 10.984 | 126  | 373625   | 11.566 | ug/l   | 95       |
| 75) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 1441899  | 12.517 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.093 | 126  | 388945   | 11.814 | ug/l   | 93       |
| 77) tert-Butylbenzene         | 11.418 | 119  | 1317877  | 12.480 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 1465909  | 12.851 | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 1756784  | 13.180 | ug/l   | 100      |
| 80) Nitrobenzene              | 13.206 | 77   | 46089    | 64.256 | ug/l # | 98       |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 1458191  | 13.584 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 753473   | 11.480 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.833 | 146  | 738998   | 11.634 | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.206 | 91   | 1262218  | 13.792 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 691819   | 11.534 | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.994 | 75   | 46896    | 12.667 | ug/l   | 99       |
| 87) 1,2,4-Trichlorobenzene    | 13.836 | 180  | 428724   | 13.171 | ug/l   | 98       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 280502   | 12.394 | ug/l   | 99       |
| 89) Naphthalene               | 14.084 | 128  | 645548   | 13.019 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 367478   | 13.156 | ug/l   | 98       |

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

