

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU040622\  
 Data File : VU047823.D  
 Acq On : 06 Apr 2022 10:46  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Apr 07 05:51:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U040622DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Apr 07 05:50:20 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units    | Dev(Min) |
|------------------------------|--------|------|----------|-------|----------|----------|
| -----                        |        |      |          |       |          |          |
| Internal Standards           |        |      |          |       |          |          |
| 1) Fluorobenzene             | 6.118  | 96   | 50441    | 1.000 | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |          |          |
| 57) 4-Bromofluorobenzene     | 10.635 | 95   | 18932    | 1.023 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 102.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.195 | 152  | 21140    | 1.171 | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 117.000% |          |
| Target Compounds             |        |      |          |       |          |          |
|                              |        |      |          |       | Qvalue   |          |
| 2) Dichlorodifluoromethane   | 1.388  | 85   | 7606     | 0.398 | ug/l     | 96       |
| 3) Chloromethane             | 1.530  | 50   | 8665     | 0.431 | ug/l     | 99       |
| 4) Vinyl Chloride            | 1.607  | 62   | 8032     | 0.395 | ug/l     | 96       |
| 5) Bromomethane              | 1.864  | 94   | 5696     | 0.495 | ug/l     | 92       |
| 6) Chloroethane              | 1.938  | 64   | 5077     | 0.383 | ug/l     | 93       |
| 7) Trichlorofluoromethane    | 2.144  | 101  | 9837     | 0.405 | ug/l     | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.591  | 101  | 5423     | 0.387 | ug/l     | 95       |
| 9) 1,1-Dichloroethene        | 2.584  | 96   | 5783     | 0.438 | ug/l     | 98       |
| 11) Allyl Chloride           | 2.928  | 41   | 8295     | 0.436 | ug/l     | 100      |
| 12) Acrylonitrile            | 3.327  | 53   | 2689     | 0.808 | ug/l     | # 83     |
| 13) Acetone                  | 2.642  | 43   | 6408     | 1.701 | ug/l     | 95       |
| 14) Carbon Disulfide         | 2.796  | 76   | 18492    | 0.458 | ug/l     | 96       |
| 15) Methylene Chloride       | 3.051  | 84   | 11664    | 0.729 | ug/l     | 96       |
| 16) trans-1,2-Dichloroethene | 3.356  | 96   | 6352     | 0.449 | ug/l     | 92       |
| 17) 1,1-Dichloroethane       | 3.877  | 63   | 10107    | 0.388 | ug/l     | 99       |
| 18) 2-Butanone               | 4.735  | 43   | 6856     | 1.419 | ug/l     | 93       |
| 19) Cyclohexane              | 5.391  | 56   | 7480m    | 0.317 | ug/l     |          |
| 20) Methylcyclohexane        | 6.767  | 83   | 7748     | 0.324 | ug/l     | 98       |
| 21) 2,2-Dichloropropane      | 4.668  | 77   | 8572     | 0.387 | ug/l     | 99       |
| 22) cis-1,2-Dichloroethene   | 4.674  | 96   | 6479     | 0.418 | ug/l     | 97       |
| 23) Diethyl Ether            | 2.382  | 59   | 4359     | 0.361 | ug/l     | 95       |
| 25) Methyl tert-Butyl Ether  | 3.372  | 73   | 13440    | 0.372 | ug/l     | # 88     |
| 26) Bromochloromethane       | 4.980  | 128  | 3394     | 0.499 | ug/l     | 92       |
| 27) Chloroform               | 5.095  | 83   | 11002    | 0.407 | ug/l     | 88       |
| 28) 1,1,1-Trichloroethane    | 5.321  | 97   | 9515     | 0.429 | ug/l     | 87       |
| 29) 1,1-Dichloropropene      | 5.533  | 75   | 7366     | 0.366 | ug/l     | 98       |
| 30) Carbon Tetrachloride     | 5.526  | 117  | 8024     | 0.458 | ug/l     | 92       |
| 31) Isopropyl Ether          | 4.005  | 45   | 13616    | 0.336 | ug/l     | 96       |
| 32) Ethyl-t-butyl ether      | 4.513  | 59   | 12973    | 0.319 | ug/l     | 98       |
| 33) Tert-Amyl methyl ether   | 5.947  | 73   | 11610    | 0.320 | ug/l     | 97       |
| 34) Propionitrile            | 4.812  | 54   | 2319     | 1.861 | ug/l     | # 76     |
| 35) Benzene                  | 5.780  | 78   | 22929    | 0.393 | ug/l     | 96       |
| 36) 1,2-Dichloroethane       | 5.800  | 62   | 6780     | 0.369 | ug/l     | # 94     |
| 37) Trichloroethene          | 6.546  | 130  | 6840     | 0.470 | ug/l     | 100      |
| 38) 1,2-Dichloropropane      | 6.796  | 63   | 5758     | 0.382 | ug/l     | 90       |
| 39) Methacrylonitrile        | 4.999  | 41   | 1648m    | 0.335 | ug/l     |          |
| 40) Methyl acrylate          | 4.864  | 55   | 2559     | 0.318 | ug/l     | # 81     |
| 41) Tetrahydrofuran          | 5.079  | 42   | 2124     | 0.763 | ug/l     | # 89     |
| 42) 1-Chlorobutane           | 5.462  | 56   | 9933     | 0.349 | ug/l     | 97       |
| 43) Dibromomethane           | 6.922  | 93   | 3445     | 0.451 | ug/l     | 97       |
| 44) Bromodichloromethane     | 7.108  | 83   | 7856     | 0.418 | ug/l     | 98       |
| 45) 4-Methyl-2-Pentanone     | 7.800  | 43   | 15166    | 1.510 | ug/l     | 97       |
| 46) t-1,4-Dichloro-2-butene  | 10.838 | 75   | 2415m    | 0.664 | ug/l     |          |

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 Sample : VSTDIC0.5  
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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Apr 07 05:51:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U040622DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Apr 07 05:50:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 47) Methyl methacrylate       | 6.970  | 69   | 4479     | 0.596 | ug/l   | 94       |
| 48) Ethyl methacrylate        | 8.340  | 69   | 4231     | 0.289 | ug/l   | 91       |
| 49) Toluene                   | 7.973  | 92   | 13137    | 0.365 | ug/l   | 99       |
| 50) t-1,3-Dichloropropene     | 8.217  | 75   | 6538     | 0.359 | ug/l # | 87       |
| 51) cis-1,3-Dichloropropene   | 7.613  | 75   | 7922     | 0.374 | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 4650     | 0.423 | ug/l   | 97       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 7592     | 0.378 | ug/l   | 96       |
| 54) 2-Hexanone                | 8.693  | 43   | 11506    | 1.497 | ug/l   | 92       |
| 55) Dibromochloromethane      | 8.816  | 129  | 5238     | 0.444 | ug/l   | 94       |
| 56) 1,2-Dibromoethane         | 8.928  | 107  | 4412     | 0.425 | ug/l   | 99       |
| 58) Tetrachloroethene         | 8.555  | 164  | 6252     | 0.474 | ug/l   | 98       |
| 59) Chlorobenzene             | 9.449  | 112  | 15527    | 0.410 | ug/l   | 91       |
| 60) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 5811     | 0.455 | ug/l   | 98       |
| 61) Pentachloroethane         | 11.430 | 117  | 5181     | 0.549 | ug/l   | 90       |
| 62) Hexachloroethane          | 12.478 | 117  | 4013     | 0.414 | ug/l   | 100      |
| 63) Ethyl Benzene             | 9.574  | 91   | 21654    | 0.324 | ug/l   | 99       |
| 64) m/p-Xylenes               | 9.697  | 106  | 16239    | 0.634 | ug/l   | 99       |
| 65) o-Xylene                  | 10.102 | 106  | 8002     | 0.321 | ug/l   | 96       |
| 66) Styrene                   | 10.118 | 104  | 12572    | 0.306 | ug/l   | 98       |
| 67) Bromoform                 | 10.295 | 173  | 3577     | 0.555 | ug/l   | 97       |
| 69) Isopropylbenzene          | 10.488 | 105  | 20530    | 0.314 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 5868     | 0.415 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane    | 10.825 | 75   | 4159m    | 0.354 | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 7233     | 0.478 | ug/l   | 99       |
| 73) n-propylbenzene           | 10.905 | 120  | 5659     | 0.325 | ug/l   | 91       |
| 74) 2-Chlorotoluene           | 10.989 | 126  | 6099     | 0.402 | ug/l   | 95       |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 16244    | 0.297 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.102 | 126  | 5689     | 0.364 | ug/l   | 92       |
| 77) tert-Butylbenzene         | 11.423 | 119  | 17667    | 0.330 | ug/l   | 97       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 16850    | 0.302 | ug/l   | 100      |
| 79) sec-Butylbenzene          | 11.645 | 105  | 22007    | 0.300 | ug/l   | 99       |
| 80) Nitrobenzene              | 13.217 | 77   | 986      | 2.344 | ug/l # | 69       |
| 81) p-Isopropyltoluene        | 11.796 | 119  | 17356    | 0.293 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene       | 11.748 | 146  | 14047    | 0.464 | ug/l   | 97       |
| 83) 1,4-Dichlorobenzene       | 11.841 | 146  | 14355    | 0.478 | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.211 | 91   | 17550    | 0.314 | ug/l   | 96       |
| 85) 1,2-Dichlorobenzene       | 12.214 | 146  | 13745    | 0.478 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 976      | 0.420 | ug/l   | 86       |
| 87) 1,2,4-Trichlorobenzene    | 13.844 | 180  | 9147     | 0.497 | ug/l   | 99       |
| 88) Hexachlorobutadiene       | 14.021 | 225  | 5800     | 0.633 | ug/l   | 96       |
| 90) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 7950     | 0.465 | ug/l   | 98       |

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

