

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021522\  
 Data File : VU047143.D  
 Acq On : 15 Feb 2022 10:00  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/18/2022  
 Supervised By : Mahesh Dadoda 02/18/2022

Quant Time: Feb 17 08:01:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021422DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 15 03:17:28 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc    | Units    | Dev(Min) |
|------------------------------|--------|------|----------|---------|----------|----------|
| -----                        |        |      |          |         |          |          |
| Internal Standards           |        |      |          |         |          |          |
| 1) Fluorobenzene             | 6.118  | 96   | 52173    | 1.000   | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |         |          |          |
| 57) 4-Bromofluorobenzene     | 10.636 | 95   | 22152    | 1.096   | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 110.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.195 | 152  | 21866    | 1.039   | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 104.000% |          |
| Target Compounds             |        |      |          |         |          |          |
|                              |        |      |          |         |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.388  | 85   | 192751   | 11.080  | ug/l     | 100      |
| 3) Chloromethane             | 1.530  | 50   | 182288   | 10.203  | ug/l     | 100      |
| 4) Vinyl Chloride            | 1.610  | 62   | 188753   | 10.702  | ug/l     | 98       |
| 5) Bromomethane              | 1.867  | 94   | 118418   | 10.277  | ug/l     | 99       |
| 6) Chloroethane              | 1.941  | 64   | 111295   | 10.983  | ug/l     | 100      |
| 7) Trichlorofluoromethane    | 2.147  | 101  | 227916   | 10.963  | ug/l     | 100      |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.591  | 101  | 131889   | 11.007  | ug/l     | 94       |
| 9) 1,1-Dichloroethene        | 2.591  | 96   | 130580   | 10.589  | ug/l     | 98       |
| 10) Iodomethane              | 2.732  | 142  | 151919   | 10.316  | ug/l     | 99       |
| 11) Allyl Chloride           | 2.932  | 41   | 202017   | 10.509  | ug/l     | 95       |
| 12) Acrylonitrile            | 3.327  | 53   | 69160    | 19.107  | ug/l     | 94       |
| 13) Acetone                  | 2.649  | 43   | 115108   | 53.666  | ug/l     | 98       |
| 14) Carbon Disulfide         | 2.803  | 76   | 448631   | 10.755  | ug/l     | 99       |
| 15) Methylene Chloride       | 3.054  | 84   | 143903   | 10.390  | ug/l     | 99       |
| 16) trans-1,2-Dichloroethene | 3.362  | 96   | 141640   | 10.883  | ug/l     | 100      |
| 17) 1,1-Dichloroethane       | 3.880  | 63   | 255770   | 10.726  | ug/l     | 99       |
| 18) 2-Butanone               | 4.719  | 43   | 204632   | 56.117  | ug/l     | 99       |
| 19) Cyclohexane              | 5.395  | 56   | 240343m  | 10.879  | ug/l     |          |
| 20) Methylcyclohexane        | 6.768  | 83   | 267642   | 10.991  | ug/l     | 96       |
| 21) 2,2-Dichloropropane      | 4.674  | 77   | 233988   | 10.980  | ug/l     | 97       |
| 22) cis-1,2-Dichloroethene   | 4.674  | 96   | 156918   | 10.483  | ug/l     | 97       |
| 23) Diethyl Ether            | 2.382  | 59   | 108161   | 10.853  | ug/l     | 98       |
| 24) tert-Butyl Alcohol       | 3.256  | 59   | 68453    | 105.605 | ug/l     | # 92     |
| 25) Methyl tert-Butyl Ether  | 3.372  | 73   | 376583   | 10.889  | ug/l     | 100      |
| 26) Bromochloromethane       | 4.983  | 128  | 74800    | 11.112  | ug/l     | 91       |
| 27) Chloroform               | 5.096  | 83   | 256031   | 10.581  | ug/l     | 100      |
| 28) 1,1,1-Trichloroethane    | 5.324  | 97   | 228168   | 10.892  | ug/l     | 97       |
| 29) 1,1-Dichloropropene      | 5.533  | 75   | 207050   | 10.797  | ug/l     | 97       |
| 30) Carbon Tetrachloride     | 5.530  | 117  | 202972   | 11.021  | ug/l     | 99       |
| 31) Isopropyl Ether          | 4.002  | 45   | 412554   | 10.817  | ug/l     | 97       |
| 32) Ethyl-t-butyl ether      | 4.510  | 59   | 419206   | 10.812  | ug/l     | 97       |
| 33) Tert-Amyl methyl ether   | 5.944  | 73   | 392743   | 10.998  | ug/l     | 98       |
| 34) Propionitrile            | 4.797  | 54   | 56814    | 52.937  | ug/l     | # 93     |
| 35) Benzene                  | 5.780  | 78   | 584357   | 10.874  | ug/l     | 99       |
| 36) 1,2-Dichloroethane       | 5.800  | 62   | 180699   | 11.106  | ug/l     | 100      |
| 37) Trichloroethene          | 6.546  | 130  | 160590   | 10.793  | ug/l     | 94       |
| 38) 1,2-Dichloropropane      | 6.796  | 63   | 154292   | 10.850  | ug/l     | 98       |
| 39) Methacrylonitrile        | 4.983  | 41   | 53949    | 11.007  | ug/l     | 98       |
| 40) Methyl acrylate          | 4.854  | 55   | 91500    | 11.044  | ug/l     | 97       |
| 41) Tetrahydrofuran          | 5.070  | 42   | 52269    | 20.935  | ug/l     | 95       |
| 42) 1-Chlorobutane           | 5.465  | 56   | 278251   | 10.807  | ug/l     | 98       |
| 43) Dibromomethane           | 6.925  | 93   | 88605    | 11.553  | ug/l     | 93       |
| 44) Bromodichloromethane     | 7.112  | 83   | 199324   | 10.989  | ug/l     | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

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Quant Time: Feb 17 08:01:14 2022  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 15 03:17:28 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.796  | 43   | 600202   | 57.864 | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene   | 10.841 | 75   | 87991m   | 19.487 | ug/l   |          |
| 47) Methyl methacrylate       | 6.967  | 69   | 179202   | 22.280 | ug/l   | 95       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 185770   | 11.394 | ug/l   | 96       |
| 49) Toluene                   | 7.973  | 92   | 381871   | 11.016 | ug/l   | 98       |
| 50) t-1,3-Dichloropropene     | 8.214  | 75   | 225353   | 11.478 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.610  | 75   | 246252   | 11.188 | ug/l   | 98       |
| 52) 1,1,2-Trichloroethane     | 8.404  | 97   | 122563   | 11.201 | ug/l   | 97       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 217266   | 11.113 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.690  | 43   | 440040   | 56.944 | ug/l   | 100      |
| 55) Dibromochloromethane      | 8.812  | 129  | 152940   | 11.497 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.928  | 107  | 125071   | 11.310 | ug/l   | 98       |
| 58) Tetrachloroethene         | 8.558  | 164  | 149618   | 10.898 | ug/l   | 98       |
| 59) Chlorobenzene             | 9.449  | 112  | 424356   | 10.980 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.539  | 131  | 150457   | 11.326 | ug/l   | 99       |
| 61) Pentachloroethane         | 11.430 | 117  | 115564   | 11.460 | ug/l   | 85       |
| 62) Hexachloroethane          | 12.478 | 117  | 125052   | 11.486 | ug/l # | 81       |
| 63) Ethyl Benzene             | 9.574  | 91   | 747313   | 10.999 | ug/l   | 98       |
| 64) m/p-Xylenes               | 9.697  | 106  | 580168   | 22.402 | ug/l   | 96       |
| 65) o-Xylene                  | 10.105 | 106  | 280637   | 11.186 | ug/l   | 96       |
| 66) Styrene                   | 10.118 | 104  | 478649   | 11.241 | ug/l   | 97       |
| 67) Bromoform                 | 10.295 | 173  | 99478    | 11.800 | ug/l # | 98       |
| 69) Isopropylbenzene          | 10.488 | 105  | 751759   | 11.142 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 169441   | 11.454 | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane    | 10.841 | 75   | 156927m  | 12.569 | ug/l   |          |
| 72) Bromobenzene              | 10.787 | 156  | 184560   | 11.201 | ug/l   | 87       |
| 73) n-propylbenzene           | 10.909 | 120  | 209475   | 11.278 | ug/l   | 89       |
| 74) 2-Chlorotoluene           | 10.989 | 126  | 175435   | 11.079 | ug/l   | 88       |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 619826   | 11.202 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.102 | 126  | 186601   | 11.217 | ug/l   | 83       |
| 77) tert-Butylbenzene         | 11.423 | 119  | 623332   | 11.227 | ug/l   | 94       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 630283   | 11.162 | ug/l   | 98       |
| 79) sec-Butylbenzene          | 11.645 | 105  | 839551   | 11.387 | ug/l   | 98       |
| 80) Nitrobenzene              | 13.211 | 77   | 41797    | 58.520 | ug/l   | 95       |
| 81) p-Isopropyltoluene        | 11.796 | 119  | 704012   | 11.285 | ug/l   | 97       |
| 82) 1,3-Dichlorobenzene       | 11.748 | 146  | 355783   | 11.091 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 356843   | 11.043 | ug/l   | 98       |
| 84) n-Butylbenzene            | 12.211 | 91   | 679991   | 11.351 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene       | 12.214 | 146  | 342974   | 11.108 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 31433    | 11.588 | ug/l   | 83       |
| 87) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 267175   | 11.020 | ug/l   | 98       |
| 88) Hexachlorobutadiene       | 14.024 | 225  | 139601   | 11.262 | ug/l   | 99       |
| 89) Naphthalene               | 14.089 | 128  | 556166   | 11.199 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 245216   | 11.276 | ug/l   | 98       |

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

