

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU031822\  
 Data File : VU047611.D  
 Acq On : 18 Mar 2022 11:24  
 Operator : SY/MD  
 Sample : VSTDICC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/31/2022  
 Supervised By : Mahesh Dadoda 03/31/2022

Quant Time: Mar 18 11:56:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U031822DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Mar 18 11:04:20 2022  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|------|----------|--------|----------|----------|
| -----                        |        |      |          |        |          |          |
| Internal Standards           |        |      |          |        |          |          |
| 1) Fluorobenzene             | 6.118  | 96   | 31111    | 1.000  | ug/l     | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |          |          |
| 57) 4-Bromofluorobenzene     | 10.632 | 95   | 11867    | 0.985  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 98.000%  |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.195 | 152  | 13733    | 1.094  | ug/l     | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 109.000% |          |
| Target Compounds             |        |      |          |        |          |          |
|                              |        |      |          |        |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.388  | 85   | 56487    | 5.446  | ug/l     | 98       |
| 3) Chloromethane             | 1.530  | 50   | 55854    | 5.243  | ug/l     | 98       |
| 4) Vinyl Chloride            | 1.607  | 62   | 54185    | 5.152  | ug/l     | 99       |
| 5) Bromomethane              | 1.861  | 94   | 32489    | 4.729  | ug/l     | 100      |
| 6) Chloroethane              | 1.938  | 64   | 32784    | 5.426  | ug/l     | 98       |
| 7) Trichlorofluoromethane    | 2.144  | 101  | 75111    | 6.059  | ug/l     | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.588  | 101  | 43741    | 6.122  | ug/l     | 90       |
| 9) 1,1-Dichloroethene        | 2.588  | 96   | 42335    | 5.757  | ug/l     | 88       |
| 10) Iodomethane              | 2.729  | 142  | 15963    | 2.560  | ug/l     | 98       |
| 11) Allyl Chloride           | 2.928  | 41   | 52708    | 4.598  | ug/l     | 98       |
| 12) Acrylonitrile            | 3.330  | 53   | 18735    | 8.680  | ug/l     | # 87     |
| 13) Acetone                  | 2.646  | 43   | 34597    | 31.865 | ug/l     | 98       |
| 14) Carbon Disulfide         | 2.800  | 76   | 134248   | 5.397  | ug/l     | 99       |
| 15) Methylene Chloride       | 3.051  | 84   | 52755    | 6.388  | ug/l     | 94       |
| 16) trans-1,2-Dichloroethene | 3.356  | 96   | 45740    | 5.894  | ug/l     | 93       |
| 17) 1,1-Dichloroethane       | 3.877  | 63   | 76046    | 5.348  | ug/l     | 100      |
| 18) 2-Butanone               | 4.726  | 43   | 54163    | 24.909 | ug/l     | 98       |
| 19) Cyclohexane              | 5.391  | 56   | 58057m   | 4.407  | ug/l     |          |
| 20) Methylcyclohexane        | 6.764  | 83   | 67133    | 4.623  | ug/l     | 96       |
| 21) 2,2-Dichloropropane      | 4.671  | 77   | 67701    | 5.327  | ug/l     | 96       |
| 22) cis-1,2-Dichloroethene   | 4.671  | 96   | 48518    | 5.436  | ug/l     | 89       |
| 23) Diethyl Ether            | 2.382  | 59   | 31287    | 5.264  | ug/l     | 95       |
| 24) tert-Butyl Alcohol       | 3.247  | 59   | 25762m   | 66.650 | ug/l     |          |
| 25) Methyl tert-Butyl Ether  | 3.372  | 73   | 104475   | 5.066  | ug/l     | 98       |
| 26) Bromochloromethane       | 4.980  | 128  | 25356    | 6.317  | ug/l     | 80       |
| 27) Chloroform               | 5.092  | 83   | 82217    | 5.698  | ug/l     | 99       |
| 28) 1,1,1-Trichloroethane    | 5.321  | 97   | 71588    | 5.731  | ug/l     | 95       |
| 29) 1,1-Dichloropropene      | 5.530  | 75   | 60413    | 5.283  | ug/l     | 96       |
| 30) Carbon Tetrachloride     | 5.530  | 117  | 65110    | 5.929  | ug/l     | 99       |
| 31) Isopropyl Ether          | 4.002  | 45   | 101122   | 4.446  | ug/l     | 93       |
| 32) Ethyl-t-butyl ether      | 4.510  | 59   | 104559   | 4.523  | ug/l     | 94       |
| 33) Tert-Amyl methyl ether   | 5.948  | 73   | 97432    | 4.576  | ug/l     | 98       |
| 34) Propionitrile            | 4.800  | 54   | 17273    | 31.152 | ug/l     | # 99     |
| 35) Benzene                  | 5.777  | 78   | 177927   | 5.553  | ug/l     | 100      |
| 36) 1,2-Dichloroethane       | 5.800  | 62   | 52773    | 5.439  | ug/l     | 98       |
| 37) Trichloroethene          | 6.546  | 130  | 50492    | 5.691  | ug/l     | 88       |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 44729    | 5.275  | ug/l     | 99       |
| 39) Methacrylonitrile        | 4.983  | 41   | 13163    | 4.504  | ug/l     | # 92     |
| 40) Methyl acrylate          | 4.858  | 55   | 21555    | 4.363  | ug/l     | # 94     |
| 41) Tetrahydrofuran          | 5.073  | 42   | 12940    | 8.691  | ug/l     | 91       |
| 42) 1-Chlorobutane           | 5.462  | 56   | 76346    | 4.973  | ug/l     | 98       |
| 43) Dibromomethane           | 6.922  | 93   | 27068    | 5.919  | ug/l     | # 88     |
| 44) Bromodichloromethane     | 7.108  | 83   | 62125    | 5.744  | ug/l     | 98       |

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 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/31/2022  
 Supervised By : Mahesh Dadoda 03/31/2022

Quant Time: Mar 18 11:56:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U031822DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Mar 18 11:04:20 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.800  | 43   | 136709   | 22.103 | ug/l   | 98       |
| 46) t-1,4-Dichloro-2-butene   | 10.838 | 75   | 22030m   | 8.182  | ug/l   |          |
| 47) Methyl methacrylate       | 6.967  | 69   | 45324    | 9.450  | ug/l   | 89       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 41523    | 4.271  | ug/l   | 89       |
| 49) Toluene                   | 7.970  | 92   | 112237   | 5.430  | ug/l   | 98       |
| 50) t-1,3-Dichloropropene     | 8.214  | 75   | 58127    | 4.965  | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene   | 7.610  | 75   | 63382    | 4.829  | ug/l   | 93       |
| 52) 1,1,2-Trichloroethane     | 8.404  | 97   | 37168    | 5.696  | ug/l   | 98       |
| 53) 1,3-Dichloropropane       | 8.578  | 76   | 60843    | 5.219  | ug/l   | 98       |
| 54) 2-Hexanone                | 8.690  | 43   | 97999    | 21.267 | ug/l   | 98       |
| 55) Dibromochloromethane      | 8.812  | 129  | 46856    | 5.907  | ug/l   | 98       |
| 56) 1,2-Dibromoethane         | 8.925  | 107  | 37246    | 5.648  | ug/l   | 99       |
| 58) Tetrachloroethene         | 8.555  | 164  | 46269    | 5.652  | ug/l   | 96       |
| 59) Chlorobenzene             | 9.449  | 112  | 124862   | 5.418  | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 48202    | 6.085  | ug/l   | 97       |
| 61) Pentachloroethane         | 11.430 | 117  | 40319    | 6.705  | ug/l   | 83       |
| 62) Hexachloroethane          | 12.475 | 117  | 40141    | 6.183  | ug/l # | 69       |
| 63) Ethyl Benzene             | 9.571  | 91   | 201349   | 4.970  | ug/l   | 98       |
| 64) m/p-Xylenes               | 9.693  | 106  | 163301   | 10.574 | ug/l   | 94       |
| 65) o-Xylene                  | 10.102 | 106  | 76551    | 5.117  | ug/l   | 94       |
| 66) Styrene                   | 10.115 | 104  | 135105   | 5.321  | ug/l   | 96       |
| 67) Bromoform                 | 10.292 | 173  | 31325    | 6.231  | ug/l # | 96       |
| 69) Isopropylbenzene          | 10.484 | 105  | 202602   | 5.036  | ug/l   | 97       |
| 70) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 48429    | 5.490  | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane    | 10.828 | 75   | 40102m   | 5.386  | ug/l   |          |
| 72) Bromobenzene              | 10.783 | 156  | 57917    | 5.894  | ug/l   | 77       |
| 73) n-propylbenzene           | 10.906 | 120  | 58897    | 5.318  | ug/l   | 85       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 54005    | 5.719  | ug/l   | 76       |
| 75) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 175520   | 5.320  | ug/l   | 97       |
| 76) 4-Chlorotoluene           | 11.099 | 126  | 56091    | 5.654  | ug/l   | 80       |
| 77) tert-Butylbenzene         | 11.420 | 119  | 173185   | 5.231  | ug/l   | 91       |
| 78) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 181118   | 5.379  | ug/l   | 96       |
| 79) sec-Butylbenzene          | 11.645 | 105  | 229491   | 5.220  | ug/l   | 96       |
| 80) Nitrobenzene              | 13.208 | 77   | 10139    | 23.806 | ug/l # | 93       |
| 81) p-Isopropyltoluene        | 11.793 | 119  | 196301   | 5.277  | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.745 | 146  | 114911   | 6.007  | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene       | 11.838 | 146  | 116533   | 6.048  | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.208 | 91   | 183384   | 5.133  | ug/l   | 95       |
| 85) 1,2-Dichlorobenzene       | 12.214 | 146  | 111716   | 6.067  | ug/l   | 96       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 8268     | 5.112  | ug/l # | 62       |
| 87) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 80526    | 5.570  | ug/l   | 97       |
| 88) Hexachlorobutadiene       | 14.021 | 225  | 46540    | 6.296  | ug/l   | 98       |
| 89) Naphthalene               | 14.086 | 128  | 130651   | 4.412  | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 75967    | 5.858  | ug/l   | 96       |

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

