

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U050420\  
 Data File : VU037999.D  
 Acq On : 04 May 2020 12:12  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

apatel  
 5/5/2020 11:15:44 AM

Quant Time: May 05 01:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue May 05 01:36:34 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|--------|---------|----------|
| -----                         | ----- | ----- | -----    | -----  | -----   | -----    |
| 1) Fluorobenzene              | 6.14  | 96    | 88396    | 1.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |        |         |          |
| 57) 4-Bromofluorobenzene      | 10.65 | 95    | 34245    | 1.00   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 100.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 12.21 | 152   | 32670    | 0.95   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 95.00%  |          |
| Target Compounds              |       |       |          |        |         |          |
|                               |       |       |          |        | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.39  | 85    | 152799   | 3.722  | ug/l    | 100      |
| 3) Chloromethane              | 1.54  | 50    | 176856   | 4.272  | ug/l    | 100      |
| 4) Vinyl Chloride             | 1.62  | 62    | 180919   | 4.862  | ug/l    | 100      |
| 5) Bromomethane               | 1.87  | 94    | 97146    | 6.924  | ug/l    | 99       |
| 6) Chloroethane               | 1.95  | 64    | 107731   | 5.781  | ug/l    | 99       |
| 7) Trichlorofluoromethane     | 2.16  | 101   | 189570   | 4.258  | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.60  | 101   | 117800   | 5.417  | ug/l    | 98       |
| 9) 1,1-Dichloroethene         | 2.60  | 96    | 115128   | 5.526  | ug/l    | 98       |
| 10) Iodomethane               | 2.75  | 142   | 84358    | 8.110  | ug/l    | 100      |
| 11) Allyl Chloride            | 2.95  | 41    | 217672   | 5.395  | ug/l    | 98       |
| 12) Acrylonitrile             | 3.35  | 53    | 62923    | 12.356 | ug/l    | 96       |
| 13) Acetone                   | 2.66  | 43    | 123177   | 22.753 | ug/l    | 100      |
| 14) Carbon Disulfide          | 2.82  | 76    | 421353   | 5.969  | ug/l    | 99       |
| 15) Methylene Chloride        | 3.07  | 84    | 145193   | 5.499  | ug/l    | 99       |
| 16) trans-1,2-Dichloroethene  | 3.38  | 96    | 127939   | 5.739  | ug/l    | 98       |
| 17) 1,1-Dichloroethane        | 3.91  | 63    | 242875   | 4.854  | ug/l    | 99       |
| 18) 2-Butanone                | 4.76  | 43    | 195184   | 23.904 | ug/l    | 98       |
| 19) Cyclohexane               | 5.42  | 56    | 234151m  | 5.427  | ug/l    |          |
| 20) Methylcyclohexane         | 6.79  | 83    | 232242   | 5.429  | ug/l    | 99       |
| 21) 2,2-Dichloropropane       | 4.70  | 77    | 200070   | 4.430  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene    | 4.71  | 96    | 138127   | 5.146  | ug/l    | 99       |
| 23) Diethyl Ether             | 2.40  | 59    | 102617   | 5.744  | ug/l    | 99       |
| 24) tert-Butyl Alcohol        | 3.23  | 59    | 107838   | 56.335 | ug/l    | 99       |
| 25) Methyl tert-Butyl Ether   | 3.40  | 73    | 322851   | 5.330  | ug/l    | 100      |
| 26) Bromochloromethane        | 5.01  | 128   | 53487    | 4.589  | ug/l    | 97       |
| 27) Chloroform                | 5.13  | 83    | 226385   | 4.272  | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane     | 5.35  | 97    | 188762   | 4.206  | ug/l    | 99       |
| 29) 1,1-Dichloropropene       | 5.56  | 75    | 186291   | 4.968  | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.56  | 117   | 158248   | 4.071  | ug/l    | 99       |
| 31) Isopropyl Ether           | 4.04  | 45    | 401971   | 5.022  | ug/l    | 100      |
| 32) Ethyl-t-butyl ether       | 4.55  | 59    | 360367   | 4.805  | ug/l    | 100      |
| 33) Tert-Amyl methyl ether    | 5.98  | 73    | 314680   | 4.898  | ug/l    | 99       |
| 34) Propionitrile             | 4.82  | 54    | 52060    | 24.198 | ug/l    | 98       |
| 35) Benzene                   | 5.81  | 78    | 529796   | 4.984  | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.83  | 62    | 157125   | 4.184  | ug/l    | 100      |
| 37) Trichloroethene           | 6.57  | 130   | 138715   | 4.965  | ug/l    | 99       |
| 38) 1,2-Dichloropropane       | 6.82  | 63    | 142677   | 4.913  | ug/l    | 100      |
| 39) Methacrylonitrile         | 5.02  | 41    | 48550    | 4.724  | ug/l    | 97       |
| 40) Methyl acrylate           | 4.89  | 55    | 75529    | 5.199  | ug/l    | 99       |
| 41) Tetrahydrofuran           | 5.11  | 42    | 49277    | 9.620  | ug/l    | 99       |
| 42) 1-Chlorobutane            | 5.49  | 56    | 272739   | 5.065  | ug/l    | 99       |

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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

apatel  
 5/5/2020 11:15:44 AM

Quant Time: May 05 01:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue May 05 01:36:34 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 43) Dibromomethane             | 6.95  | 93   | 65814    | 4.486  | ug/l  | 99       |
| 44) Bromodichloromethane       | 7.13  | 83   | 166067   | 4.367  | ug/l  | 99       |
| 45) 4-Methyl-2-Pentanone       | 7.82  | 43   | 450132   | 22.814 | ug/l  | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.85 | 75   | 59707m   | 11.086 | ug/l  |          |
| 47) Methyl methacrylate        | 6.99  | 69   | 139091   | 11.217 | ug/l  | 97       |
| 48) Ethyl methacrylate         | 8.36  | 69   | 125157   | 5.120  | ug/l  | 99       |
| 49) Toluene                    | 7.99  | 92   | 337941   | 5.272  | ug/l  | 99       |
| 50) t-1,3-Dichloropropene      | 8.23  | 75   | 169820   | 4.866  | ug/l  | 99       |
| 51) cis-1,3-Dichloropropene    | 7.63  | 75   | 205597   | 5.106  | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane      | 8.42  | 97   | 93255    | 4.727  | ug/l  | 98       |
| 53) 1,3-Dichloropropane        | 8.60  | 76   | 177400   | 5.016  | ug/l  | 100      |
| 54) 2-Hexanone                 | 8.71  | 43   | 312621   | 23.055 | ug/l  | 99       |
| 55) Dibromochloromethane       | 8.83  | 129  | 104670   | 4.355  | ug/l  | 100      |
| 56) 1,2-Dibromoethane          | 8.95  | 107  | 87332    | 4.722  | ug/l  | 98       |
| 58) Tetrachloroethene          | 8.57  | 164  | 128698   | 4.906  | ug/l  | 98       |
| 59) Chlorobenzene              | 9.47  | 112  | 358042   | 5.008  | ug/l  | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.56  | 131  | 107986   | 4.252  | ug/l  | 99       |
| 61) Pentachloroethane          | 11.44 | 117  | 79220    | 4.085  | ug/l  | 99       |
| 62) Hexachloroethane           | 12.49 | 117  | 81054    | 3.935  | ug/l  | 98       |
| 63) Ethyl Benzene              | 9.59  | 91   | 639173   | 5.240  | ug/l  | 99       |
| 64) m/p-Xylenes                | 9.71  | 106  | 499225   | 10.810 | ug/l  | 100      |
| 65) o-Xylene                   | 10.12 | 106  | 238505   | 5.338  | ug/l  | 99       |
| 66) Styrene                    | 10.13 | 104  | 401307   | 5.498  | ug/l  | 100      |
| 67) Bromoform                  | 10.31 | 173  | 54273    | 4.304  | ug/l  | 100      |
| 69) Isopropylbenzene           | 10.50 | 105  | 635780   | 5.240  | ug/l  | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 119743   | 4.629  | ug/l  | 98       |
| 71) 1,2,3-Trichloropropane     | 10.84 | 75   | 82595m   | 4.049  | ug/l  |          |
| 72) Bromobenzene               | 10.80 | 156  | 142945   | 4.868  | ug/l  | 99       |
| 73) n-propylbenzene            | 10.92 | 120  | 175003   | 5.429  | ug/l  | 100      |
| 74) 2-Chlorotoluene            | 11.00 | 126  | 142777   | 4.949  | ug/l  | 99       |
| 75) 1,3,5-Trimethylbenzene     | 11.10 | 105  | 523363   | 5.035  | ug/l  | 100      |
| 76) 4-Chlorotoluene            | 11.11 | 126  | 152866   | 5.238  | ug/l  | 97       |
| 77) tert-Butylbenzene          | 11.44 | 119  | 495239   | 4.883  | ug/l  | 99       |
| 78) 1,2,4-Trimethylbenzene     | 11.48 | 105  | 544487   | 5.199  | ug/l  | 99       |
| 79) sec-Butylbenzene           | 11.66 | 105  | 701796   | 5.049  | ug/l  | 100      |
| 80) Nitrobenzene               | 13.23 | 77   | 16289    | 27.623 | ug/l  | 99       |
| 81) p-Isopropyltoluene         | 11.81 | 119  | 574847   | 5.257  | ug/l  | 100      |
| 82) 1,3-Dichlorobenzene        | 11.76 | 146  | 284121   | 4.899  | ug/l  | 100      |
| 83) 1,4-Dichlorobenzene        | 11.85 | 146  | 286043   | 4.871  | ug/l  | 100      |
| 84) n-Butylbenzene             | 12.22 | 91   | 572368   | 5.470  | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene        | 12.23 | 146  | 264801   | 4.731  | ug/l  | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 19625    | 4.439  | ug/l  | 95       |
| 87) 1,2,4-Trichlorobenzene     | 13.87 | 180  | 190325   | 6.463  | ug/l  | 99       |
| 88) Hexachlorobutadiene        | 14.05 | 225  | 86524    | 4.920  | ug/l  | 99       |
| 89) Naphthalene                | 14.12 | 128  | 371171   | 7.269  | ug/l  | 100      |
| 90) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 171425   | 6.043  | ug/l  | 100      |

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

