

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100318\  
 Data File : VU027354.D  
 Acq On : 02 Oct 2018 21:08  
 Operator : MD/SY  
 Sample : VU1003WBSD01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1003WBSD01

Manual Integrations  
 APPROVED

apatel  
 10/5/2018 11:56:46 AM

Quant Time: Oct 03 09:39:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U100318DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Oct 03 09:31:21 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|-------|----------|--------|--------|----------|
| -----                         | ----- | ----- | -----    | -----  | -----  | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 22314    | 1.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |       |       |          |        |        |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 7107     | 0.84   | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 84.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 7017     | 0.98   | ug/l   | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 98.00% |          |
| Target Compounds              |       |       |          |        |        |          |
|                               |       |       |          |        | Ovalue |          |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 14003    | 1.871  | ug/l   | 98       |
| 3) Chloromethane              | 1.33  | 50    | 16493    | 1.897  | ug/l   | 100      |
| 4) Vinyl Chloride             | 1.40  | 62    | 16485    | 1.864  | ug/l   | 98       |
| 5) Bromomethane               | 1.63  | 94    | 9229     | 2.495  | ug/l   | 97       |
| 6) Chloroethane               | 1.70  | 64    | 19439    | 3.144  | ug/l   | 92       |
| 7) Trichlorofluoromethane     | 1.89  | 101   | 18395    | 1.795  | ug/l   | 96       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 10911    | 1.810  | ug/l   | 98       |
| 9) 1,1-Dichloroethene         | 2.29  | 96    | 9280     | 1.849  | ug/l   | 95       |
| 10) Iodomethane               | 2.41  | 142   | 9392     | 1.660  | ug/l   | 100      |
| 11) Allyl Chloride            | 2.59  | 41    | 24128    | 1.819  | ug/l   | 98       |
| 12) Acrylonitrile             | 2.94  | 53    | 6934     | 4.001  | ug/l   | 96       |
| 13) Acetone                   | 2.33  | 43    | 15486    | 9.988  | ug/l   | 97       |
| 14) Carbon Disulfide          | 2.48  | 76    | 28021    | 1.797  | ug/l   | 100      |
| 15) Methylene Chloride        | 2.70  | 84    | 19192    | 2.982  | ug/l   | 99       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96    | 10585    | 1.813  | ug/l   | 99       |
| 17) 1,1-Dichloroethane        | 3.45  | 63    | 26663    | 1.892  | ug/l   | 99       |
| 18) 2-Butanone                | 4.29  | 43    | 26060    | 9.821  | ug/l   | 99       |
| 19) Cyclohexane               | 4.98  | 56    | 19959    | 1.875  | ug/l   | 96       |
| 20) Methylcyclohexane         | 6.41  | 83    | 15286    | 1.599  | ug/l   | 96       |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 20700    | 1.715  | ug/l   | 96       |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 13436    | 1.910  | ug/l   | 96       |
| 23) Diethyl Ether             | 2.11  | 59    | 10816    | 2.019  | ug/l   | 99       |
| 24) tert-Butyl Alcohol        | 2.84  | 59    | 12624    | 20.843 | ug/l   | 96       |
| 25) Methyl tert-Butyl Ether   | 3.01  | 73    | 32767    | 1.956  | ug/l   | 98       |
| 26) Bromochloromethane        | 4.55  | 128   | 4730     | 1.829  | ug/l   | 97       |
| 27) Chloroform                | 4.67  | 83    | 24828    | 1.930  | ug/l   | 99       |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 19714    | 1.889  | ug/l   | 99       |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 18014    | 1.917  | ug/l   | 97       |
| 30) Carbon Tetrachloride      | 5.12  | 117   | 16539    | 1.916  | ug/l   | 99       |
| 31) Isopropyl Ether           | 3.58  | 45    | 49513    | 1.847  | ug/l   | 100      |
| 32) Ethyl-t-butyl ether       | 4.09  | 59    | 39316    | 1.878  | ug/l   | 98       |
| 33) Tert-Amyl methyl ether    | 5.59  | 73    | 31738    | 1.893  | ug/l   | 98       |
| 34) Propionitrile             | 4.34  | 54    | 7015     | 10.249 | ug/l # | 95       |
| 35) Benzene                   | 5.38  | 78    | 51565    | 1.876  | ug/l   | 99       |
| 36) 1,2-Dichloroethane        | 5.41  | 62    | 17261    | 1.916  | ug/l   | 99       |
| 37) Trichloroethene           | 6.18  | 130   | 11524    | 1.889  | ug/l   | 92       |
| 38) 1,2-Dichloropropane       | 6.44  | 63    | 15034    | 1.810  | ug/l   | 99       |
| 39) Methacrylonitrile         | 4.56  | 41    | 6549     | 1.828  | ug/l   | 97       |
| 40) Methyl acrylate           | 4.43  | 55    | 8835     | 1.937  | ug/l # | 89       |
| 41) Tetrahydrofuran           | 4.67  | 42    | 7510     | 4.139  | ug/l   | 95       |
| 42) 1-Chlorobutane            | 5.06  | 56    | 28020    | 1.853  | ug/l   | 96       |

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 ALS Vial : 15 Sample Multiplier: 1

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 QLast Update : Wed Oct 03 09:31:21 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 6650     | 1.924  | ug/l   | 95       |
| 44) Bromodichloromethane       | 6.76  | 83   | 17562    | 1.872  | ug/l   | 99       |
| 45) 4-Methyl-2-Pentanone       | 7.48  | 43   | 47563    | 8.936  | ug/l   | 96       |
| 46) t-1,4-Dichloro-2-butene    | 10.51 | 75   | 5775m    | 3.742  | ug/l   |          |
| 47) Methyl methacrylate        | 6.64  | 69   | 11477    | 3.298  | ug/l   | 98       |
| 48) Ethyl methacrylate         | 8.03  | 69   | 9740     | 1.607  | ug/l   | 98       |
| 49) Toluene                    | 7.64  | 92   | 24668    | 1.642  | ug/l   | 93       |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 14881    | 1.786  | ug/l   | 96       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 17113    | 1.715  | ug/l   | 97       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 9436     | 1.940  | ug/l   | 96       |
| 53) 1,3-Dichloropropane        | 8.25  | 76   | 17064    | 1.849  | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.38  | 43   | 32062    | 8.718  | ug/l   | 95       |
| 55) Dibromochloromethane       | 8.48  | 129  | 10193    | 1.897  | ug/l   | 100      |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 8262     | 1.921  | ug/l   | 98       |
| 58) Tetrachloroethene          | 8.22  | 164  | 9879     | 1.827  | ug/l   | 96       |
| 59) Chlorobenzene              | 9.12  | 112  | 27441    | 1.751  | ug/l   | 96       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 11290    | 1.874  | ug/l   | 98       |
| 61) Pentachloroethane          | 11.11 | 117  | 9046     | 1.817  | ug/l   | 100      |
| 62) Hexachloroethane           | 12.15 | 117  | 9335     | 1.966  | ug/l   | 98       |
| 63) Ethyl Benzene              | 9.25  | 91   | 41194    | 1.531  | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.38  | 106  | 31942    | 3.167  | ug/l   | 99       |
| 65) o-Xylene                   | 9.78  | 106  | 15649    | 1.635  | ug/l   | 97       |
| 66) Styrene                    | 9.79  | 104  | 26889    | 1.600  | ug/l   | 99       |
| 67) Bromoform                  | 9.96  | 173  | 5484     | 1.909  | ug/l   | 97       |
| 69) Isopropylbenzene           | 10.17 | 105  | 40620    | 1.609  | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 13461    | 2.048  | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane     | 10.50 | 75   | 10989m   | 2.167  | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 11114    | 1.825  | ug/l   | 99       |
| 73) n-propylbenzene            | 10.59 | 120  | 11207    | 1.649  | ug/l   | 97       |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 10772    | 1.734  | ug/l   | 97       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 36878    | 1.642  | ug/l   | 97       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 11496    | 1.803  | ug/l   | 99       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 34740    | 1.638  | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 37445    | 1.691  | ug/l   | 98       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 48810    | 1.678  | ug/l   | 100      |
| 80) Nitrobenzene               | 12.86 | 77   | 2740     | 10.143 | ug/l # | 96       |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 39190    | 1.759  | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 24735    | 1.928  | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 24094    | 1.876  | ug/l   | 98       |
| 84) n-Butylbenzene             | 11.89 | 91   | 39611    | 1.768  | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 21912    | 1.846  | ug/l   | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 2086     | 2.096  | ug/l   | 95       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 12846    | 1.708  | ug/l   | 98       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 9166     | 1.842  | ug/l   | 99       |
| 89) Naphthalene                | 13.75 | 128  | 20968    | 1.580  | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 13664    | 1.837  | ug/l   | 98       |

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

