

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U040219\  
 Data File : VU030611.D  
 Acq On : 02 Apr 2019 19:52  
 Operator : JC/SP  
 Sample : VSTDICCC010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

MMDadoda

4/3/2019 11:44:07 AM

Quant Time: Apr 03 02:14:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U040219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Apr 03 01:47:43 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|---------|---------|----------|
| -----                         | ----- | ----- | -----    | -----   | -----   | -----    |
| 1) Fluorobenzene              | 5.74  | 96    | 37401    | 1.00    | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |         |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 14445    | 1.05    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 105.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 13986    | 0.92    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 92.00%  |          |
| Target Compounds              |       |       |          |         | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.20  | 85    | 154192   | 10.939  | ug/l    | 100      |
| 3) Chloromethane              | 1.32  | 50    | 175948   | 11.011  | ug/l    | 100      |
| 4) Vinyl Chloride             | 1.40  | 62    | 175324   | 12.426  | ug/l    | 100      |
| 5) Bromomethane               | 1.63  | 94    | 75728    | 9.742   | ug/l    | 100      |
| 6) Chloroethane               | 1.70  | 64    | 98157    | 12.134  | ug/l    | 100      |
| 7) Trichlorofluoromethane     | 1.88  | 101   | 208067   | 11.555  | ug/l    | 100      |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 103594   | 10.748  | ug/l    | 100      |
| 9) 1,1-Dichloroethene         | 2.28  | 96    | 100941   | 10.616  | ug/l    | 100      |
| 10) Iodomethane               | 2.41  | 142   | 141899   | 15.961  | ug/l    | 100      |
| 11) Allyl Chloride            | 2.59  | 41    | 222537   | 15.049  | ug/l    | 100      |
| 12) Acrylonitrile             | 2.93  | 53    | 64564    | 28.804  | ug/l    | 100      |
| 13) Acetone                   | 2.32  | 43    | 144023   | 72.838  | ug/l    | 100      |
| 14) Carbon Disulfide          | 2.47  | 76    | 361148   | 10.836  | ug/l    | 100      |
| 15) Methylene Chloride        | 2.69  | 84    | 120974   | 10.589  | ug/l    | 100      |
| 16) trans-1,2-Dichloroethene  | 2.97  | 96    | 111749   | 10.232  | ug/l    | 100      |
| 17) 1,1-Dichloroethane        | 3.44  | 63    | 234203   | 12.213  | ug/l    | 100      |
| 18) 2-Butanone                | 4.27  | 43    | 216078   | 78.409  | ug/l    | 100      |
| 19) Cyclohexane               | 4.98  | 56    | 205677m  | 12.516  | ug/l    |          |
| 20) Methylcyclohexane         | 6.41  | 83    | 177339   | 10.283  | ug/l    | 100      |
| 21) 2,2-Dichloropropane       | 4.22  | 77    | 184049   | 11.525  | ug/l    | 100      |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96    | 126331   | 10.397  | ug/l    | 100      |
| 23) Diethyl Ether             | 2.10  | 59    | 100855   | 13.418  | ug/l    | 100      |
| 24) tert-Butyl Alcohol        | 2.83  | 59    | 121009   | 145.441 | ug/l    | 100      |
| 25) Methyl tert-Butyl Ether   | 3.00  | 73    | 311046   | 12.461  | ug/l    | 100      |
| 26) Bromochloromethane        | 4.54  | 128   | 53035    | 10.019  | ug/l    | 100      |
| 27) Chloroform                | 4.67  | 83    | 220984   | 11.130  | ug/l    | 100      |
| 28) 1,1,1-Trichloroethane     | 4.91  | 97    | 184337   | 11.357  | ug/l    | 100      |
| 29) 1,1-Dichloropropene       | 5.13  | 75    | 165736   | 11.235  | ug/l    | 100      |
| 30) Carbon Tetrachloride      | 5.13  | 117   | 160535   | 11.103  | ug/l    | 100      |
| 31) Isopropyl Ether           | 3.57  | 45    | 395953   | 14.103  | ug/l    | 100      |
| 32) Ethyl-t-butyl ether       | 4.07  | 59    | 323457   | 12.442  | ug/l    | 100      |
| 33) Tert-Amyl methyl ether    | 5.58  | 73    | 270598   | 11.595  | ug/l    | 100      |
| 34) Propionitrile             | 4.33  | 54    | 56238    | 74.693  | ug/l    | 100      |
| 35) Benzene                   | 5.38  | 78    | 480403   | 11.139  | ug/l    | 100      |
| 36) 1,2-Dichloroethane        | 5.40  | 62    | 150669   | 12.584  | ug/l    | 100      |
| 37) Trichloroethene           | 6.18  | 130   | 114871   | 9.526   | ug/l    | 100      |
| 38) 1,2-Dichloropropane       | 6.43  | 63    | 136754   | 12.184  | ug/l    | 100      |
| 39) Methacrylonitrile         | 4.55  | 41    | 52875    | 15.703  | ug/l    | 100      |
| 40) Methyl acrylate           | 4.42  | 55    | 73218    | 14.333  | ug/l    | 100      |
| 41) Tetrahydrofuran           | 4.65  | 42    | 56214    | 30.264  | ug/l    | 100      |
| 42) 1-Chlorobutane            | 5.06  | 56    | 256076   | 12.834  | ug/l    | 100      |

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Quant Time: Apr 03 02:14:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U040219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Apr 03 01:47:43 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 64960    | 11.353 | ug/l  | 100      |
| 44) Bromodichloromethane       | 6.75  | 83   | 164438   | 11.942 | ug/l  | 100      |
| 45) 4-Methyl-2-Pentanone       | 7.46  | 43   | 496895   | 80.195 | ug/l  | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.51 | 75   | 68323m   | 30.241 | ug/l  |          |
| 47) Methyl methacrylate        | 6.62  | 69   | 131168   | 26.663 | ug/l  | 100      |
| 48) Ethyl methacrylate         | 8.02  | 69   | 118987   | 13.049 | ug/l  | 100      |
| 49) Toluene                    | 7.63  | 92   | 277182   | 10.813 | ug/l  | 100      |
| 50) t-1,3-Dichloropropene      | 7.88  | 75   | 152825   | 12.432 | ug/l  | 100      |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 180835   | 11.812 | ug/l  | 100      |
| 52) 1,1,2-Trichloroethane      | 8.06  | 97   | 89747    | 11.164 | ug/l  | 100      |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 163352   | 11.965 | ug/l  | 100      |
| 54) 2-Hexanone                 | 8.36  | 43   | 335491   | 76.310 | ug/l  | 100      |
| 55) Dibromochloromethane       | 8.47  | 129  | 103827   | 10.864 | ug/l  | 100      |
| 56) 1,2-Dibromoethane          | 8.58  | 107  | 83566    | 10.899 | ug/l  | 100      |
| 58) Tetrachloroethene          | 8.22  | 164  | 100822   | 9.276  | ug/l  | 100      |
| 59) Chlorobenzene              | 9.12  | 112  | 288016   | 9.964  | ug/l  | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 106846   | 10.366 | ug/l  | 100      |
| 61) Pentachloroethane          | 11.10 | 117  | 82010    | 10.314 | ug/l  | 100      |
| 62) Hexachloroethane           | 12.14 | 117  | 78475    | 9.959  | ug/l  | 100      |
| 63) Ethyl Benzene              | 9.25  | 91   | 522946   | 10.879 | ug/l  | 100      |
| 64) m/p-Xylenes                | 9.37  | 106  | 381956   | 20.548 | ug/l  | 100      |
| 65) o-Xylene                   | 9.77  | 106  | 183533   | 10.069 | ug/l  | 100      |
| 66) Styrene                    | 9.79  | 104  | 323931   | 10.769 | ug/l  | 100      |
| 67) Bromoform                  | 9.95  | 173  | 58706    | 10.829 | ug/l  | 100      |
| 69) Isopropylbenzene           | 10.16 | 105  | 494977   | 10.356 | ug/l  | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 119665   | 11.906 | ug/l  | 100      |
| 71) 1,2,3-Trichloropropane     | 10.49 | 75   | 86827m   | 11.468 | ug/l  |          |
| 72) Bromobenzene               | 10.45 | 156  | 115978   | 9.390  | ug/l  | 100      |
| 73) n-propylbenzene            | 10.58 | 120  | 134830   | 10.046 | ug/l  | 100      |
| 74) 2-Chlorotoluene            | 10.66 | 126  | 115648   | 9.821  | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 426054   | 10.482 | ug/l  | 100      |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 119269   | 9.941  | ug/l  | 100      |
| 77) tert-Butylbenzene          | 11.10 | 119  | 397233   | 10.036 | ug/l  | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.14 | 105  | 437149   | 10.570 | ug/l  | 100      |
| 79) sec-Butylbenzene           | 11.32 | 105  | 547393   | 10.293 | ug/l  | 100      |
| 80) Nitrobenzene               | 12.86 | 77   | 16700    | 79.146 | ug/l  | 100      |
| 81) p-Isopropyltoluene         | 11.47 | 119  | 444049   | 10.045 | ug/l  | 100      |
| 82) 1,3-Dichlorobenzene        | 11.41 | 146  | 224132   | 9.027  | ug/l  | 100      |
| 83) 1,4-Dichlorobenzene        | 11.50 | 146  | 225794   | 9.039  | ug/l  | 100      |
| 84) n-Butylbenzene             | 11.89 | 91   | 452195   | 10.785 | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 210244   | 9.081  | ug/l  | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 19366    | 13.216 | ug/l  | 100      |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 135509   | 8.291  | ug/l  | 100      |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 75338    | 8.427  | ug/l  | 100      |
| 89) Naphthalene                | 13.74 | 128  | 251701   | 9.748  | ug/l  | 100      |
| 90) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 132341   | 8.838  | ug/l  | 100      |

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

