

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102919\  
 Data File : VU035539.D  
 Acq On : 29 Oct 2019 13:50  
 Operator : JC/SP  
 Sample : VSTDICCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

MMDadoda  
 10/30/2019 10:38:51 AM

Quant Time: Oct 30 05:32:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U102919DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Oct 30 05:08:49 2019  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 6.16 | 96   | 81149    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |        |      |
|----------------------------|-------|-----|----------|------|--------|------|
| 57) 4-Bromofluorobenzene   | 10.66 | 95  | 30456    | 0.98 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 98.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 12.22 | 152 | 31928    | 0.95 | ug/l   | 0.00 |
| Spiked Amount 1.000        |       |     | Recovery | =    | 95.00% |      |

## Target Compounds

|                               |      |     |         |             | Qvalue |
|-------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane    | 1.39 | 85  | 297100  | 9.955 ug/l  | 100    |
| 3) Chloromethane              | 1.54 | 50  | 342936  | 10.296 ug/l | 100    |
| 4) Vinyl Chloride             | 1.62 | 62  | 329909  | 10.195 ug/l | 100    |
| 5) Bromomethane               | 1.87 | 94  | 162233  | 8.776 ug/l  | 100    |
| 6) Chloroethane               | 1.95 | 64  | 186909  | 9.992 ug/l  | 100    |
| 7) Trichlorofluoromethane     | 2.16 | 101 | 399245  | 10.041 ug/l | 100    |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 210528  | 9.804 ug/l  | 100    |
| 9) 1,1-Dichloroethene         | 2.61 | 96  | 205184  | 9.535 ug/l  | 100    |
| 10) Iodomethane               | 2.76 | 142 | 160233  | 8.587 ug/l  | 100    |
| 11) Allyl Chloride            | 2.96 | 41  | 348200  | 9.812 ug/l  | 100    |
| 12) Acrylonitrile             | 3.37 | 53  | 101928m | 21.969 ug/l |        |
| 13) Acetone                   | 2.67 | 43  | 230650  | 58.946 ug/l | 100    |
| 14) Carbon Disulfide          | 2.82 | 76  | 724842  | 9.588 ug/l  | 100    |
| 15) Methylene Chloride        | 3.08 | 84  | 243099  | 9.584 ug/l  | 100    |
| 16) trans-1,2-Dichloroethene  | 3.39 | 96  | 222305  | 9.248 ug/l  | 100    |
| 17) 1,1-Dichloroethane        | 3.92 | 63  | 426525  | 9.337 ug/l  | 100    |
| 18) 2-Butanone                | 4.78 | 43  | 329139  | 59.646 ug/l | 100    |
| 19) Cyclohexane               | 5.43 | 56  | 367373m | 10.453 ug/l |        |
| 20) Methylcyclohexane         | 6.80 | 83  | 378989  | 10.212 ug/l | 100    |
| 21) 2,2-Dichloropropane       | 4.71 | 77  | 355312  | 9.423 ug/l  | 100    |
| 22) cis-1,2-Dichloroethene    | 4.72 | 96  | 256950  | 9.865 ug/l  | 100    |
| 23) Diethyl Ether             | 2.41 | 59  | 172547  | 10.527 ug/l | 100    |
| 24) tert-Butyl Alcohol        | 3.26 | 59  | 184846  | 82.026 ug/l | 100    |
| 25) Methyl tert-Butyl Ether   | 3.43 | 73  | 554762  | 10.575 ug/l | 100    |
| 26) Bromochloromethane        | 5.03 | 128 | 106936  | 9.676 ug/l  | 100    |
| 27) Chloroform                | 5.14 | 83  | 424366  | 8.893 ug/l  | 100    |
| 28) 1,1,1-Trichloroethane     | 5.36 | 97  | 358182  | 9.588 ug/l  | 100    |
| 29) 1,1-Dichloropropene       | 5.57 | 75  | 318259  | 9.892 ug/l  | 100    |
| 30) Carbon Tetrachloride      | 5.57 | 117 | 322435  | 9.635 ug/l  | 100    |
| 31) Isopropyl Ether           | 4.07 | 45  | 630996  | 9.629 ug/l  | 100    |
| 32) Ethyl-t-butyl ether       | 4.57 | 59  | 594245  | 10.458 ug/l | 100    |
| 33) Tert-Amyl methyl ether    | 6.00 | 73  | 525192  | 10.987 ug/l | 100    |
| 34) Propionitrile             | 4.85 | 54  | 95792   | 60.685 ug/l | 100    |
| 35) Benzene                   | 5.82 | 78  | 946014  | 9.792 ug/l  | 100    |
| 36) 1,2-Dichloroethane        | 5.84 | 62  | 260183  | 10.346 ug/l | 100    |
| 37) Trichloroethene           | 6.58 | 130 | 260028  | 9.638 ug/l  | 100    |
| 38) 1,2-Dichloropropane       | 6.84 | 63  | 253681  | 9.865 ug/l  | 100    |
| 39) Methacrylonitrile         | 5.04 | 41  | 77003   | 11.803 ug/l | 100    |
| 40) Methyl acrylate           | 4.91 | 55  | 124626  | 12.519 ug/l | 100    |
| 41) Tetrahydrofuran           | 5.14 | 42  | 78327   | 23.483 ug/l | # 36   |
| 42) 1-Chlorobutane            | 5.50 | 56  | 446099  | 10.215 ug/l | 100    |

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102919\  
 Data File : VU035539.D  
 Acq On : 29 Oct 2019 13:50  
 Operator : JC/SP  
 Sample : VSTDICCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

MMDadoda  
 10/30/2019 10:38:51 AM

Quant Time: Oct 30 05:32:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U102919DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Oct 30 05:08:49 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 43) Dibromomethane             | 6.96  | 93   | 127662   | 10.370 | ug/l   | 100      |
| 44) Bromodichloromethane       | 7.15  | 83   | 312813   | 10.007 | ug/l   | 100      |
| 45) 4-Methyl-2-Pentanone       | 7.84  | 43   | 741214   | 58.983 | ug/l   | 100      |
| 46) t-1,4-Dichloro-2-butene    | 10.87 | 75   | 118969m  | 22.745 | ug/l   |          |
| 47) Methyl methacrylate        | 7.01  | 69   | 230425   | 23.446 | ug/l   | 100      |
| 48) Ethyl methacrylate         | 8.38  | 69   | 216040   | 12.180 | ug/l   | 100      |
| 49) Toluene                    | 8.01  | 92   | 583039   | 10.355 | ug/l   | 100      |
| 50) t-1,3-Dichloropropene      | 8.25  | 75   | 304376   | 11.588 | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene    | 7.65  | 75   | 351534   | 10.811 | ug/l   | 100      |
| 52) 1,1,2-Trichloroethane      | 8.44  | 97   | 175096   | 10.264 | ug/l   | 100      |
| 53) 1,3-Dichloropropane        | 8.61  | 76   | 308751   | 10.793 | ug/l   | 100      |
| 54) 2-Hexanone                 | 8.73  | 43   | 529030   | 62.423 | ug/l   | 100      |
| 55) Dibromochloromethane       | 8.84  | 129  | 223902   | 10.791 | ug/l   | 100      |
| 56) 1,2-Dibromoethane          | 8.96  | 107  | 170575   | 10.825 | ug/l   | 100      |
| 58) Tetrachloroethene          | 8.58  | 164  | 239224   | 9.369  | ug/l   | 100      |
| 59) Chlorobenzene              | 9.48  | 112  | 654472   | 10.357 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane  | 9.57  | 131  | 236905   | 10.089 | ug/l   | 100      |
| 61) Pentachloroethane          | 11.46 | 117  | 191385   | 10.024 | ug/l   | 100      |
| 62) Hexachloroethane           | 12.50 | 117  | 179861   | 10.554 | ug/l   | 100      |
| 63) Ethyl Benzene              | 9.60  | 91   | 1107243  | 10.985 | ug/l   | 100      |
| 64) m/p-Xylenes                | 9.72  | 106  | 877015   | 21.559 | ug/l # | 1        |
| 65) o-Xylene                   | 10.13 | 106  | 416121   | 10.731 | ug/l   | 100      |
| 66) Styrene                    | 10.14 | 104  | 725214   | 11.157 | ug/l   | 100      |
| 67) Bromoform                  | 10.32 | 173  | 141682   | 11.459 | ug/l   | 100      |
| 69) Isopropylbenzene           | 10.51 | 105  | 1101251  | 10.874 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 237636   | 10.772 | ug/l # | 63       |
| 71) 1,2,3-Trichloropropane     | 10.85 | 75   | 178353m  | 11.590 | ug/l   |          |
| 72) Bromobenzene               | 10.81 | 156  | 284859   | 10.315 | ug/l   | 100      |
| 73) n-propylbenzene            | 10.93 | 120  | 316247   | 10.829 | ug/l   | 100      |
| 74) 2-Chlorotoluene            | 11.02 | 126  | 277126   | 10.496 | ug/l   | 100      |
| 75) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 932458   | 10.384 | ug/l   | 100      |
| 76) 4-Chlorotoluene            | 11.12 | 126  | 291649   | 10.830 | ug/l   | 100      |
| 77) tert-Butylbenzene          | 11.45 | 119  | 921791   | 10.507 | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.49 | 105  | 952577   | 10.503 | ug/l   | 100      |
| 79) sec-Butylbenzene           | 11.67 | 105  | 1206689  | 10.265 | ug/l   | 100      |
| 80) Nitrobenzene               | 13.24 | 77   | 24924    | 55.249 | ug/l   | 100      |
| 81) p-Isopropyltoluene         | 11.82 | 119  | 997415   | 10.246 | ug/l # | 68       |
| 82) 1,3-Dichlorobenzene        | 11.77 | 146  | 550398   | 9.694  | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene        | 11.86 | 146  | 547682   | 9.716  | ug/l   | 100      |
| 84) n-Butylbenzene             | 12.23 | 91   | 861173   | 9.710  | ug/l   | 100      |
| 85) 1,2-Dichlorobenzene        | 12.24 | 146  | 517217   | 9.987  | ug/l   | 100      |
| 86) 1,2-Dibromo-3-Chloropropan | 13.02 | 75   | 32910    | 11.322 | ug/l   | 100      |
| 87) 1,2,4-Trichlorobenzene     | 13.86 | 180  | 237537   | 8.420  | ug/l   | 100      |
| 88) Hexachlorobutadiene        | 14.04 | 225  | 180842   | 8.208  | ug/l   | 100      |
| 89) Naphthalene                | 14.11 | 128  | 386128   | 10.471 | ug/l   | 100      |
| 90) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 240325   | 9.153  | ug/l   | 100      |

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

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102919\  
Data File : VU035539.D  
Acq On : 29 Oct 2019 13:50  
Operator : JC/SP  
Sample : VSTDICCC010  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICCC010

Manual Integrations  
APPROVED

MMDadoda  
10/30/2019 10:38:51 AM

Quant Time: Oct 30 05:32:21 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U102919DW.M  
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Wed Oct 30 05:08:49 2019  
Response via : Initial Calibration

