

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU013124\  
 Data File : VU057766.D  
 Acq On : 31 Jan 2024 17:21  
 Operator : MD/SY  
 Sample : VSTDICV010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICSVU013124

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/01/2024  
 Supervised By :Semsettin Yesilyurt 02/01/2024

Quant Time: Feb 01 11:08:00 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U013124DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Feb 01 02:02:36 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|--------|------|----------|---------|---------|----------|
| -----                        |        |      |          |         |         |          |
| Internal Standards           |        |      |          |         |         |          |
| 1) Fluorobenzene             | 6.110  | 96   | 43931    | 1.000   | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |         |         |          |
| 57) 4-Bromofluorobenzene     | 10.631 | 95   | 16480    | 0.991   | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 99.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.187 | 152  | 14599    | 0.975   | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =       | 97.000% |          |
| Target Compounds             |        |      |          |         |         |          |
|                              |        |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.383  | 85   | 78163    | 5.343   | ug/l    | 100      |
| 3) Chloromethane             | 1.518  | 50   | 104192   | 7.423   | ug/l    | 99       |
| 4) Vinyl Chloride            | 1.602  | 62   | 118174   | 8.257   | ug/l    | 99       |
| 5) Bromomethane              | 1.856  | 94   | 76870    | 9.050   | ug/l    | 99       |
| 6) Chloroethane              | 1.930  | 64   | 85602    | 9.468   | ug/l    | 98       |
| 7) Trichlorofluoromethane    | 2.132  | 101  | 194415   | 8.871   | ug/l    | 99       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 114895   | 10.197  | ug/l    | 97       |
| 9) 1,1-Dichloroethene        | 2.576  | 96   | 110899   | 10.157  | ug/l    | 97       |
| 10) Iodomethane              | 2.718  | 142  | 136255   | 10.612  | ug/l    | 95       |
| 11) Allyl Chloride           | 2.917  | 41   | 164824   | 11.130  | ug/l    | 90       |
| 12) Acrylonitrile            | 3.313  | 53   | 103693   | 55.651  | ug/l    | 98       |
| 13) Acetone                  | 2.637  | 43   | 139694   | 41.425  | ug/l    | 96       |
| 14) Carbon Disulfide         | 2.788  | 76   | 336459   | 9.628   | ug/l    | 100      |
| 15) Methylene Chloride       | 3.039  | 84   | 122306   | 9.379   | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene | 3.348  | 96   | 122186   | 10.250  | ug/l    | 96       |
| 17) 1,1-Dichloroethane       | 3.859  | 63   | 234003   | 10.398  | ug/l    | 99       |
| 18) 2-Butanone               | 4.702  | 43   | 160510   | 44.161  | ug/l    | 98       |
| 19) Cyclohexane              | 5.380  | 56   | 170709   | 9.680   | ug/l    | 87       |
| 20) Methylcyclohexane        | 6.756  | 83   | 221480   | 10.392  | ug/l    | 97       |
| 21) 2,2-Dichloropropane      | 4.657  | 77   | 212333   | 10.626  | ug/l    | 97       |
| 22) cis-1,2-Dichloroethene   | 4.660  | 96   | 139406   | 10.678  | ug/l    | 95       |
| 23) Diethyl Ether            | 2.370  | 59   | 76013    | 9.645   | ug/l    | 98       |
| 24) tert-Butyl Alcohol       | 3.232  | 59   | 49351m   | 55.066  | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.354  | 73   | 272592   | 10.640  | ug/l    | 94       |
| 26) Bromochloromethane       | 4.965  | 128  | 53327    | 10.168  | ug/l    | 98       |
| 27) Chloroform               | 5.078  | 83   | 241158   | 10.308  | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane    | 5.309  | 97   | 216559   | 10.251  | ug/l    | 99       |
| 29) 1,1-Dichloropropene      | 5.518  | 75   | 182367   | 10.670  | ug/l    | 98       |
| 30) Carbon Tetrachloride     | 5.518  | 117  | 189426   | 10.407  | ug/l    | 99       |
| 31) Isopropyl Ether          | 3.981  | 45   | 353489   | 10.735  | ug/l    | # 1      |
| 34) Propionitrile            | 4.779  | 54   | 83163    | 110.398 | ug/l    | # 15     |
| 35) Benzene                  | 5.766  | 78   | 518757   | 10.542  | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.785  | 62   | 148863   | 10.381  | ug/l    | 97       |
| 37) Trichloroethene          | 6.534  | 130  | 133171   | 10.190  | ug/l    | 99       |
| 38) 1,2-Dichloropropane      | 6.785  | 63   | 129798   | 10.172  | ug/l    | 98       |
| 39) Methacrylonitrile        | 4.965  | 41   | 32392    | 10.788  | ug/l    | 96       |
| 40) Methyl acrylate          | 4.840  | 55   | 59576    | 9.765   | ug/l    | 99       |
| 41) Tetrahydrofuran          | 5.049  | 42   | 84206    | 52.528  | ug/l    | 100      |
| 42) 1-Chlorobutane           | 5.451  | 56   | 241444   | 10.715  | ug/l    | 97       |
| 43) Dibromomethane           | 6.914  | 93   | 64779    | 11.039  | ug/l    | 97       |
| 44) Bromodichloromethane     | 7.097  | 83   | 175968   | 10.710  | ug/l    | 99       |
| 45) 4-Methyl-2-Pentanone     | 7.782  | 43   | 332520   | 53.172  | ug/l    | 98       |
| 46) t-1,4-Dichloro-2-butene  | 10.817 | 75   | 53645m   | 31.265  | ug/l    |          |

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Feb 01 02:02:36 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 47) Methyl methacrylate       | 6.955  | 69   | 55113    | 10.632 | ug/l # | 93       |
| 48) Ethyl methacrylate        | 8.328  | 69   | 115039   | 11.072 | ug/l   | 97       |
| 49) Toluene                   | 7.962  | 92   | 322905   | 10.742 | ug/l   | 97       |
| 50) t-1,3-Dichloropropene     | 8.203  | 75   | 161338   | 11.375 | ug/l   | 100      |
| 51) cis-1,3-Dichloropropene   | 7.602  | 75   | 197844   | 11.012 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane     | 8.393  | 97   | 86799    | 10.735 | ug/l   | 99       |
| 53) 1,3-Dichloropropane       | 8.570  | 76   | 153759   | 10.580 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.679  | 43   | 275089   | 47.784 | ug/l   | 98       |
| 55) Dibromochloromethane      | 8.804  | 129  | 106093   | 10.601 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.917  | 107  | 82485    | 11.085 | ug/l   | 98       |
| 58) Tetrachloroethene         | 8.547  | 164  | 119395   | 10.354 | ug/l   | 94       |
| 59) Chlorobenzene             | 9.441  | 112  | 339384   | 10.211 | ug/l   | 100      |
| 60) 1,1,1,2-Tetrachloroethane | 9.528  | 131  | 121670   | 10.784 | ug/l   | 97       |
| 61) Pentachloroethane         | 11.422 | 117  | 91915    | 11.206 | ug/l   | 86       |
| 62) Hexachloroethane          | 12.470 | 117  | 97216    | 9.025  | ug/l   | 96       |
| 63) Ethyl Benzene             | 9.563  | 91   | 645583   | 10.922 | ug/l   | 99       |
| 64) m/p-Xylenes               | 9.688  | 106  | 480597   | 22.388 | ug/l   | 97       |
| 65) o-Xylene                  | 10.094 | 106  | 233637   | 10.995 | ug/l   | 96       |
| 66) Styrene                   | 10.110 | 104  | 369408   | 11.647 | ug/l   | 97       |
| 67) Bromoform                 | 10.283 | 173  | 57376    | 11.138 | ug/l   | 99       |
| 69) Isopropylbenzene          | 10.479 | 105  | 617625   | 11.087 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 103134   | 10.177 | ug/l   | 98       |
| 71) 1,2,3-Trichloropropane    | 10.817 | 75   | 79610m   | 8.874  | ug/l   |          |
| 72) Bromobenzene              | 10.775 | 156  | 134556   | 10.976 | ug/l   | 99       |
| 73) n-propylbenzene           | 10.901 | 120  | 161953   | 11.570 | ug/l   | 96       |
| 74) 2-Chlorotoluene           | 10.981 | 126  | 144006   | 11.090 | ug/l   | 97       |
| 75) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 535084   | 11.182 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.090 | 126  | 144182   | 11.048 | ug/l   | 94       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 488668   | 10.883 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 523078   | 10.778 | ug/l   | 99       |
| 79) sec-Butylbenzene          | 11.637 | 105  | 618603   | 10.778 | ug/l   | 99       |
| 80) Nitrobenzene              | 13.209 | 77   | 2003     | 10.371 | ug/l # | 78       |
| 81) p-Isopropyltoluene        | 11.788 | 119  | 526754   | 10.885 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene       | 11.740 | 146  | 264496   | 10.672 | ug/l   | 98       |
| 83) 1,4-Dichlorobenzene       | 11.830 | 146  | 259578   | 10.729 | ug/l   | 98       |
| 84) n-Butylbenzene            | 12.203 | 91   | 513517   | 11.097 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.206 | 146  | 238207   | 10.593 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.991 | 75   | 16281    | 9.837  | ug/l   | 94       |
| 87) 1,2,4-Trichlorobenzene    | 13.833 | 180  | 157004   | 11.685 | ug/l   | 99       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 89319    | 10.360 | ug/l   | 98       |
| 89) Naphthalene               | 14.081 | 128  | 242711   | 12.010 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 127429   | 11.400 | ug/l   | 99       |

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

