

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU042123\  
 Data File : VU053821.D  
 Acq On : 21 Apr 2023 12:01  
 Operator : JC/MD  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 04/28/2023  
 Supervised By :Mahesh Dadoda 04/28/2023

Quant Time: Apr 22 03:18:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U041923DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Apr 21 09:18:21 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.112  | 96   | 36927    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.629 | 95   | 14118    | 0.975  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 97.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.188 | 152  | 16312    | 0.948  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 95.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 112405   | 10.040 | ug/l    | 98       |
| 3) Chloromethane             | 1.520  | 50   | 92176    | 9.144  | ug/l    | 98       |
| 4) Vinyl Chloride            | 1.604  | 62   | 112129   | 9.621  | ug/l    | 98       |
| 5) Bromomethane              | 1.861  | 94   | 78387    | 8.938  | ug/l    | 100      |
| 6) Chloroethane              | 1.935  | 64   | 72118    | 9.664  | ug/l    | 99       |
| 7) Trichlorofluoromethane    | 2.141  | 101  | 194001   | 9.909  | ug/l    | 100      |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.581  | 101  | 115942   | 9.097  | ug/l    | 93       |
| 9) 1,1-Dichloroethene        | 2.581  | 96   | 89132    | 8.542  | ug/l    | 88       |
| 10) Iodomethane              | 2.723  | 142  | 110666   | 9.739  | ug/l    | 95       |
| 11) Allyl Chloride           | 2.922  | 41   | 102984   | 8.311  | ug/l    | 93       |
| 12) Acrylonitrile            | 3.321  | 53   | 41269    | 15.830 | ug/l    | 99       |
| 13) Acetone                  | 2.645  | 43   | 182666   | 50.123 | ug/l    | 99       |
| 14) Carbon Disulfide         | 2.793  | 76   | 145407   | 8.486  | ug/l    | 100      |
| 15) Methylene Chloride       | 3.044  | 84   | 134022   | 8.767  | ug/l    | 88       |
| 16) trans-1,2-Dichloroethene | 3.353  | 96   | 95753    | 8.487  | ug/l    | 90       |
| 17) 1,1-Dichloroethane       | 3.867  | 63   | 202643   | 8.709  | ug/l    | 98       |
| 18) 2-Butanone               | 4.710  | 43   | 209880   | 44.427 | ug/l    | 100      |
| 19) Cyclohexane              | 5.388  | 56   | 135957m  | 8.445  | ug/l    |          |
| 20) Methylcyclohexane        | 6.761  | 83   | 166058   | 11.496 | ug/l    | 90       |
| 21) 2,2-Dichloropropane      | 4.661  | 77   | 186600   | 8.823  | ug/l    | 100      |
| 22) cis-1,2-Dichloroethene   | 4.661  | 96   | 122987   | 8.714  | ug/l    | 95       |
| 23) Diethyl Ether            | 2.375  | 59   | 73047    | 9.495  | ug/l    | 91       |
| 24) tert-Butyl Alcohol       | 3.250  | 59   | 80324m   | 76.688 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.362  | 73   | 250767   | 8.614  | ug/l    | 97       |
| 26) Bromochloromethane       | 4.973  | 128  | 53848    | 8.624  | ug/l    | 88       |
| 27) Chloroform               | 5.086  | 83   | 223825   | 8.907  | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane    | 5.314  | 97   | 193259   | 9.280  | ug/l    | 96       |
| 29) 1,1-Dichloropropene      | 5.523  | 75   | 140576   | 10.604 | ug/l    | 98       |
| 30) Carbon Tetrachloride     | 5.523  | 117  | 163519   | 10.970 | ug/l    | 97       |
| 31) Isopropyl Ether          | 3.989  | 45   | 276552   | 8.218  | ug/l    | 93       |
| 32) Ethyl-t-butyl ether      | 4.497  | 59   | 286323   | 8.410  | ug/l    | 94       |
| 33) Tert-Amyl methyl ether   | 5.938  | 73   | 263964   | 10.611 | ug/l    | 98       |
| 34) Propionitrile            | 4.793  | 54   | 40367    | 38.216 | ug/l    | # 12     |
| 35) Benzene                  | 5.771  | 78   | 430908   | 10.554 | ug/l    | 99       |
| 36) 1,2-Dichloroethane       | 5.790  | 62   | 125748   | 9.804  | ug/l    | 99       |
| 37) Trichloroethene          | 6.539  | 130  | 125893   | 10.859 | ug/l    | 93       |
| 38) 1,2-Dichloropropane      | 6.787  | 63   | 121952   | 10.493 | ug/l    | 99       |
| 39) Methacrylonitrile        | 4.970  | 41   | 29686    | 7.043  | ug/l    | 92       |
| 40) Methyl acrylate          | 4.845  | 55   | 52785    | 7.584  | ug/l    | # 94     |
| 41) Tetrahydrofuran          | 5.060  | 42   | 27854    | 13.332 | ug/l    | # 85     |
| 42) 1-Chlorobutane           | 5.456  | 56   | 178447   | 9.862  | ug/l    | 94       |
| 43) Dibromomethane           | 6.915  | 93   | 59712    | 10.130 | ug/l    | 96       |
| 44) Bromodichloromethane     | 7.102  | 83   | 160459   | 10.799 | ug/l    | 98       |

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 ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
 APPROVED

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 Supervised By :Mahesh Dadoda 04/28/2023

Quant Time: Apr 22 03:18:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U041923DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Apr 21 09:18:21 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.787  | 43   | 310913   | 51.859 | ug/l  | # 93     |
| 46) t-1,4-Dichloro-2-butene   | 10.832 | 75   | 56601m   | 22.738 | ug/l  |          |
| 47) Methyl methacrylate       | 6.957  | 69   | 107732   | 20.808 | ug/l  | 90       |
| 48) Ethyl methacrylate        | 8.330  | 69   | 106977   | 10.541 | ug/l  | 88       |
| 49) Toluene                   | 7.967  | 92   | 282095   | 10.965 | ug/l  | 96       |
| 50) t-1,3-Dichloropropene     | 8.208  | 75   | 148316   | 11.110 | ug/l  | 100      |
| 51) cis-1,3-Dichloropropene   | 7.603  | 75   | 177446   | 11.132 | ug/l  | 95       |
| 52) 1,1,2-Trichloroethane     | 8.394  | 97   | 93666    | 10.014 | ug/l  | 98       |
| 53) 1,3-Dichloropropane       | 8.571  | 76   | 153339   | 10.471 | ug/l  | 99       |
| 54) 2-Hexanone                | 8.681  | 43   | 329360   | 58.580 | ug/l  | 93       |
| 55) Dibromochloromethane      | 8.806  | 129  | 107530   | 10.932 | ug/l  | 98       |
| 56) 1,2-Dibromoethane         | 8.918  | 107  | 85256    | 10.569 | ug/l  | 100      |
| 58) Tetrachloroethene         | 8.552  | 164  | 118601   | 10.579 | ug/l  | 95       |
| 59) Chlorobenzene             | 9.443  | 112  | 347174   | 10.845 | ug/l  | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.529  | 131  | 122852   | 10.643 | ug/l  | 100      |
| 61) Pentachloroethane         | 11.423 | 117  | 89350    | 10.037 | ug/l  | 90       |
| 62) Hexachloroethane          | 12.471 | 117  | 96871    | 11.149 | ug/l  | 99       |
| 63) Ethyl Benzene             | 9.568  | 91   | 573879   | 11.354 | ug/l  | 97       |
| 64) m/p-Xylenes               | 9.690  | 106  | 453337   | 22.765 | ug/l  | 93       |
| 65) o-Xylene                  | 10.099 | 106  | 227396   | 11.325 | ug/l  | 94       |
| 66) Styrene                   | 10.111 | 104  | 363074   | 11.372 | ug/l  | 99       |
| 67) Bromoform                 | 10.288 | 173  | 56265    | 11.008 | ug/l  | 100      |
| 69) Isopropylbenzene          | 10.481 | 105  | 600491   | 11.443 | ug/l  | 97       |
| 70) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 115400   | 9.582  | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane    | 10.822 | 75   | 68139m   | 7.840  | ug/l  |          |
| 72) Bromobenzene              | 10.777 | 156  | 142654   | 10.597 | ug/l  | 90       |
| 73) n-propylbenzene           | 10.902 | 120  | 174145   | 11.962 | ug/l  | 86       |
| 74) 2-Chlorotoluene           | 10.983 | 126  | 148436   | 10.786 | ug/l  | 89       |
| 75) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 518915   | 11.335 | ug/l  | 98       |
| 76) 4-Chlorotoluene           | 11.092 | 126  | 157464   | 11.225 | ug/l  | 88       |
| 77) tert-Butylbenzene         | 11.417 | 119  | 508754   | 11.044 | ug/l  | 97       |
| 78) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 534027   | 11.431 | ug/l  | 96       |
| 79) sec-Butylbenzene          | 11.639 | 105  | 704712   | 11.381 | ug/l  | 97       |
| 80) Nitrobenzene              | 13.204 | 77   | 17320    | 45.402 | ug/l  | 99       |
| 81) p-Isopropyltoluene        | 11.790 | 119  | 589230   | 11.616 | ug/l  | 97       |
| 82) 1,3-Dichlorobenzene       | 11.742 | 146  | 305626   | 10.620 | ug/l  | 98       |
| 83) 1,4-Dichlorobenzene       | 11.832 | 146  | 301031   | 10.492 | ug/l  | 98       |
| 84) n-Butylbenzene            | 12.205 | 91   | 563688   | 10.015 | ug/l  | 97       |
| 85) 1,2-Dichlorobenzene       | 12.208 | 146  | 283219   | 10.064 | ug/l  | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.992 | 75   | 17352    | 10.233 | ug/l  | 83       |
| 87) 1,2,4-Trichlorobenzene    | 13.835 | 180  | 194239   | 10.442 | ug/l  | 99       |
| 88) Hexachlorobutadiene       | 14.018 | 225  | 102687   | 10.349 | ug/l  | 99       |
| 89) Naphthalene               | 14.082 | 128  | 339537   | 10.416 | ug/l  | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 174225   | 9.851  | ug/l  | 99       |

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

