

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021325\  
 Data File : VU063267.D  
 Acq On : 13 Feb 2025 18:44  
 Operator : MD/SY  
 Sample : VSTDCCC010  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC010EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/14/2025  
 Supervised By :Semsettin Yesilyurt 02/14/2025

Quant Time: Feb 14 04:46:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U021025DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------------|----------|
| -----                        |        |      |          |              |          |
| Internal Standards           |        |      |          |              |          |
| 1) Fluorobenzene             | 6.103  | 96   | 51789    | 1.000 ug/l   | # 0.00   |
| System Monitoring Compounds  |        |      |          |              |          |
| 57) 4-Bromofluorobenzene     | 10.624 | 95   | 18453    | 1.080 ug/l   | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | = 108.000%   |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.184 | 152  | 18640    | 1.049 ug/l   | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | = 105.000%   |          |
| Target Compounds             |        |      |          |              |          |
|                              |        |      |          |              | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.377  | 85   | 160233   | 9.523 ug/l   | 99       |
| 3) Chloromethane             | 1.518  | 50   | 188053   | 9.705 ug/l   | 98       |
| 4) Vinyl Chloride            | 1.596  | 62   | 194231   | 10.131 ug/l  | 100      |
| 5) Bromomethane              | 1.837  | 94   | 106309   | 11.348 ug/l  | 100      |
| 6) Chloroethane              | 1.917  | 64   | 113470   | 9.396 ug/l   | 99       |
| 7) Trichlorofluoromethane    | 2.126  | 101  | 227706   | 10.023 ug/l  | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.567  | 101  | 130332   | 10.107 ug/l  | 99       |
| 9) 1,1-Dichloroethene        | 2.567  | 96   | 131915   | 10.040 ug/l  | 99       |
| 10) Iodomethane              | 2.708  | 142  | 206806   | 10.012 ug/l  | 99       |
| 11) Allyl Chloride           | 2.907  | 41   | 190698   | 10.103 ug/l  | 99       |
| 12) Acrylonitrile            | 3.303  | 53   | 67502    | 22.274 ug/l  | 99       |
| 13) Acetone                  | 2.612  | 43   | 115085   | 49.387 ug/l  | 100      |
| 14) Carbon Disulfide         | 2.779  | 76   | 434279   | 9.453 ug/l   | 100      |
| 15) Methylene Chloride       | 3.030  | 84   | 164468   | 10.132 ug/l  | 99       |
| 16) trans-1,2-Dichloroethene | 3.338  | 96   | 152974   | 10.201 ug/l  | 99       |
| 17) 1,1-Dichloroethane       | 3.853  | 63   | 292141   | 10.336 ug/l  | 99       |
| 18) 2-Butanone               | 4.686  | 43   | 198650   | 53.564 ug/l  | 100      |
| 19) Cyclohexane              | 5.374  | 56   | 237161m  | 10.442 ug/l  |          |
| 20) Methylcyclohexane        | 6.750  | 83   | 248350   | 11.027 ug/l  | 98       |
| 21) 2,2-Dichloropropane      | 4.647  | 77   | 223156   | 10.120 ug/l  | 99       |
| 22) cis-1,2-Dichloroethene   | 4.650  | 96   | 173010   | 10.678 ug/l  | 99       |
| 23) Diethyl Ether            | 2.364  | 59   | 113316   | 10.051 ug/l  | 100      |
| 24) tert-Butyl Alcohol       | 3.165  | 59   | 115455   | 100.306 ug/l | 99       |
| 25) Methyl tert-Butyl Ether  | 3.348  | 73   | 356516   | 10.864 ug/l  | 98       |
| 26) Bromochloromethane       | 4.956  | 128  | 74079    | 10.460 ug/l  | 99       |
| 27) Chloroform               | 5.071  | 83   | 295467   | 10.358 ug/l  | 98       |
| 28) 1,1,1-Trichloroethane    | 5.300  | 97   | 240646   | 10.415 ug/l  | 99       |
| 29) 1,1-Dichloropropene      | 5.512  | 75   | 218161   | 10.541 ug/l  | 99       |
| 30) Carbon Tetrachloride     | 5.509  | 117  | 206386   | 10.415 ug/l  | 96       |
| 31) Isopropyl Ether          | 3.975  | 45   | 435795   | 10.799 ug/l  | 100      |
| 32) Ethyl-t-butyl ether      | 4.486  | 59   | 406827   | 11.086 ug/l  | 100      |
| 33) Tert-Amyl methyl ether   | 5.927  | 73   | 363481   | 11.336 ug/l  | 100      |
| 34) Propionitrile            | 4.756  | 54   | 63755    | 56.997 ug/l  | 97       |
| 35) Benzene                  | 5.759  | 78   | 663518   | 10.427 ug/l  | 99       |
| 36) 1,2-Dichloroethane       | 5.779  | 62   | 189813   | 10.335 ug/l  | 99       |
| 37) Trichloroethene          | 6.531  | 130  | 157409   | 10.401 ug/l  | 99       |
| 38) 1,2-Dichloropropane      | 6.779  | 63   | 175942   | 10.564 ug/l  | 99       |
| 39) Methacrylonitrile        | 4.959  | 41   | 49168    | 11.795 ug/l  | 97       |
| 40) Methyl acrylate          | 4.833  | 55   | 84554    | 11.006 ug/l  | 99       |
| 41) Tetrahydrofuran          | 5.039  | 42   | 51472    | 21.230 ug/l  | 98       |
| 42) 1-Chlorobutane           | 5.444  | 56   | 302601   | 10.686 ug/l  | 98       |
| 43) Dibromomethane           | 6.904  | 93   | 89109    | 10.566 ug/l  | 99       |
| 44) Bromodichloromethane     | 7.091  | 83   | 211706   | 10.785 ug/l  | 99       |

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Quant Time: Feb 14 04:46:25 2025  
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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Feb 11 08:42:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.775  | 43   | 493537   | 55.818 | ug/l   | 99       |
| 46) t-1,4-Dichloro-2-butene   | 10.824 | 75   | 82674m   | 19.890 | ug/l   |          |
| 47) Methyl methacrylate       | 6.949  | 69   | 166262   | 23.405 | ug/l   | 99       |
| 48) Ethyl methacrylate        | 8.322  | 69   | 161403   | 12.100 | ug/l   | 99       |
| 49) Toluene                   | 7.955  | 92   | 404478   | 11.053 | ug/l   | 100      |
| 50) t-1,3-Dichloropropene     | 8.200  | 75   | 203765   | 11.338 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.595  | 75   | 246201   | 11.090 | ug/l   | 100      |
| 52) 1,1,2-Trichloroethane     | 8.386  | 97   | 124276   | 10.929 | ug/l   | 98       |
| 53) 1,3-Dichloropropane       | 8.563  | 76   | 218777   | 10.837 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.672  | 43   | 338541   | 56.106 | ug/l   | 99       |
| 55) Dibromochloromethane      | 8.798  | 129  | 143736   | 10.987 | ug/l   | 97       |
| 56) 1,2-Dibromoethane         | 8.910  | 107  | 116536   | 10.927 | ug/l   | 100      |
| 58) Tetrachloroethene         | 8.544  | 164  | 129382   | 10.374 | ug/l   | 98       |
| 59) Chlorobenzene             | 9.434  | 112  | 422514   | 10.941 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane | 9.521  | 131  | 149307   | 10.756 | ug/l   | 100      |
| 61) Pentachloroethane         | 11.415 | 117  | 132521   | 10.687 | ug/l   | 100      |
| 62) Hexachloroethane          | 12.463 | 117  | 123324   | 11.242 | ug/l   | 99       |
| 63) Ethyl Benzene             | 9.560  | 91   | 758702   | 11.392 | ug/l   | 100      |
| 64) m/p-Xylenes               | 9.682  | 106  | 577336   | 23.207 | ug/l   | 99       |
| 65) o-Xylene                  | 10.090 | 106  | 278258   | 11.425 | ug/l   | 99       |
| 66) Styrene                   | 10.103 | 104  | 470765   | 12.146 | ug/l   | 99       |
| 67) Bromoform                 | 10.280 | 173  | 81875    | 11.027 | ug/l   | 100      |
| 69) Isopropylbenzene          | 10.473 | 105  | 659791   | 11.524 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.769 | 83   | 164572   | 10.738 | ug/l   | 99       |
| 71) 1,2,3-Trichloropropane    | 10.814 | 75   | 125184m  | 10.872 | ug/l   |          |
| 72) Bromobenzene              | 10.772 | 156  | 173295   | 11.233 | ug/l   | 99       |
| 73) n-propylbenzene           | 10.894 | 120  | 199855   | 12.192 | ug/l   | 98       |
| 74) 2-Chlorotoluene           | 10.975 | 126  | 174559   | 11.554 | ug/l   | 99       |
| 75) 1,3,5-Trimethylbenzene    | 11.078 | 105  | 633633   | 11.944 | ug/l   | 100      |
| 76) 4-Chlorotoluene           | 11.087 | 126  | 179287   | 11.572 | ug/l   | 99       |
| 77) tert-Butylbenzene         | 11.409 | 119  | 611870   | 11.404 | ug/l   | 100      |
| 78) 1,2,4-Trimethylbenzene    | 11.457 | 105  | 636851   | 12.098 | ug/l   | 100      |
| 79) sec-Butylbenzene          | 11.634 | 105  | 800494   | 11.718 | ug/l   | 100      |
| 80) Nitrobenzene              | 13.203 | 77   | 21307    | 47.167 | ug/l # | 93       |
| 81) p-Isopropyltoluene        | 11.782 | 119  | 656522   | 12.177 | ug/l   | 100      |
| 82) 1,3-Dichlorobenzene       | 11.733 | 146  | 333944   | 11.160 | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene       | 11.827 | 146  | 345800   | 11.815 | ug/l   | 99       |
| 84) n-Butylbenzene            | 12.196 | 91   | 603086   | 12.475 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.203 | 146  | 330104   | 11.480 | ug/l   | 98       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.984 | 75   | 25038    | 11.639 | ug/l   | 97       |
| 87) 1,2,4-Trichlorobenzene    | 13.830 | 180  | 194103   | 13.840 | ug/l   | 99       |
| 88) Hexachlorobutadiene       | 14.010 | 225  | 111746   | 11.149 | ug/l   | 98       |
| 89) Naphthalene               | 14.077 | 128  | 296195   | 10.105 | ug/l   | 99       |
| 90) 1,2,3-Trichlorobenzene    | 14.319 | 180  | 175214   | 12.768 | ug/l   | 98       |

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

