

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060524\  
 Data File : VU059158.D  
 Acq On : 05 Jun 2024 19:14  
 Operator : MD/SY  
 Sample : P2403-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT2-2024

Quant Time: Jun 06 04:03:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 06 04:01:15 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/10/2024  
 Supervised By :Semsettin Yesilyurt 06/10/2024

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.110  | 96   | 40758    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.631 | 95   | 12851    | 0.927  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 93.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.190 | 152  | 14061    | 0.969  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 97.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.380  | 85   | 10330    | 0.809  | ug/l    | 95       |
| 3) Chloromethane             | 1.515  | 50   | 12641    | 0.822  | ug/l    | 97       |
| 4) Vinyl Chloride            | 1.599  | 62   | 12653    | 0.814  | ug/l    | 98       |
| 5) Bromomethane              | 1.853  | 94   | 7693     | 0.815  | ug/l    | 93       |
| 6) Chloroethane              | 1.930  | 64   | 7990     | 0.800  | ug/l    | 98       |
| 7) Trichlorofluoromethane    | 2.132  | 101  | 14464    | 0.750  | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101  | 8115     | 0.819  | ug/l    | 99       |
| 9) 1,1-Dichloroethene        | 2.573  | 96   | 7592     | 0.773  | ug/l    | 96       |
| 10) Iodomethane              | 2.714  | 142  | 8829     | 0.717  | ug/l    | 96       |
| 11) Allyl Chloride           | 2.917  | 41   | 10817    | 0.815  | ug/l    | 97       |
| 12) Acrylonitrile            | 3.338  | 53   | 3868     | 1.744  | ug/l    | # 71     |
| 13) Acetone                  | 2.644  | 43   | 7863     | 2.330  | ug/l    | 100      |
| 14) Carbon Disulfide         | 2.785  | 76   | 24960    | 0.798  | ug/l    | 96       |
| 15) Methylene Chloride       | 3.039  | 84   | 20895    | 1.553  | ug/l    | 96       |
| 16) trans-1,2-Dichloroethene | 3.348  | 96   | 8557     | 0.799  | ug/l    | 95       |
| 17) 1,1-Dichloroethane       | 3.862  | 63   | 18008    | 0.803  | ug/l    | 97       |
| 18) 2-Butanone               | 4.734  | 43   | 11650m   | 3.112  | ug/l    |          |
| 19) Cyclohexane              | 5.380  | 56   | 12313m   | 0.758  | ug/l    |          |
| 20) Methylcyclohexane        | 6.759  | 83   | 11363    | 0.697  | ug/l    | 98       |
| 21) 2,2-Dichloropropane      | 4.653  | 77   | 12080    | 0.728  | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene   | 4.666  | 96   | 8845     | 0.760  | ug/l    | 99       |
| 23) Diethyl Ether            | 2.370  | 59   | 7480     | 0.813  | ug/l    | 94       |
| 24) tert-Butyl Alcohol       | 3.216  | 59   | 6334m    | 10.054 | ug/l    |          |
| 25) Methyl tert-Butyl Ether  | 3.358  | 73   | 19777    | 0.840  | ug/l    | 96       |
| 26) Bromochloromethane       | 4.968  | 128  | 4051     | 0.824  | ug/l    | 97       |
| 27) Chloroform               | 5.081  | 83   | 18036    | 0.800  | ug/l    | 95       |
| 28) 1,1,1-Trichloroethane    | 5.309  | 97   | 14076    | 0.792  | ug/l    | 98       |
| 29) 1,1-Dichloropropene      | 5.521  | 75   | 11233    | 0.754  | ug/l    | # 91     |
| 30) Carbon Tetrachloride     | 5.521  | 117  | 11421    | 0.783  | ug/l    | 97       |
| 31) Isopropyl Ether          | 3.985  | 45   | 22179    | 0.754  | ug/l    | 93       |
| 32) Ethyl-t-butyl ether      | 4.496  | 59   | 21854    | 0.798  | ug/l    | 95       |
| 33) Tert-Amyl methyl ether   | 5.933  | 73   | 18392    | 0.761  | ug/l    | # 84     |
| 34) Propionitrile            | 4.814  | 54   | 3098m    | 3.612  | ug/l    |          |
| 35) Benzene                  | 5.769  | 78   | 36490    | 0.779  | ug/l    | 98       |
| 36) 1,2-Dichloroethane       | 5.788  | 62   | 11502    | 0.828  | ug/l    | 99       |
| 37) Trichloroethene          | 6.541  | 130  | 8689     | 0.776  | ug/l    | 96       |
| 38) 1,2-Dichloropropane      | 6.785  | 63   | 10309    | 0.775  | ug/l    | 96       |
| 39) Methacrylonitrile        | 4.988  | 41   | 2250m    | 0.704  | ug/l    |          |
| 40) Methyl acrylate          | 4.875  | 55   | 3911m    | 0.698  | ug/l    |          |
| 41) Tetrahydrofuran          | 5.081  | 42   | 2700m    | 1.578  | ug/l    |          |
| 42) 1-Chlorobutane           | 5.454  | 56   | 16025    | 0.778  | ug/l    | 95       |
| 43) Dibromomethane           | 6.920  | 93   | 5196     | 0.862  | ug/l    | 98       |
| 44) Bromodichloromethane     | 7.097  | 83   | 12812    | 0.821  | ug/l    | 92       |

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 MSVOA\_U  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT2-2024

Quant Time: Jun 06 04:03:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U060524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Thu Jun 06 04:01:15 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 06/10/2024  
 Supervised By :Semsettin Yesilyurt 06/10/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.788  | 43   | 26059    | 4.035 | ug/l # | 92       |
| 46) t-1,4-Dichloro-2-butene   | 10.833 | 75   | 3734m    | 1.362 | ug/l   |          |
| 47) Methyl methacrylate       | 6.962  | 69   | 7326     | 1.416 | ug/l   | 93       |
| 48) Ethyl methacrylate        | 8.332  | 69   | 6589     | 0.721 | ug/l   | 100      |
| 49) Toluene                   | 7.968  | 92   | 19284    | 0.747 | ug/l   | 96       |
| 50) t-1,3-Dichloropropene     | 8.209  | 75   | 9954     | 0.745 | ug/l   | 94       |
| 51) cis-1,3-Dichloropropene   | 7.605  | 75   | 11841    | 0.724 | ug/l # | 91       |
| 52) 1,1,2-Trichloroethane     | 8.396  | 97   | 7283     | 0.818 | ug/l   | 94       |
| 53) 1,3-Dichloropropane       | 8.573  | 76   | 12158    | 0.793 | ug/l   | 97       |
| 54) 2-Hexanone                | 8.685  | 43   | 16415    | 3.278 | ug/l   | 93       |
| 55) Dibromochloromethane      | 8.804  | 129  | 7426     | 0.771 | ug/l   | 95       |
| 56) 1,2-Dibromoethane         | 8.920  | 107  | 6572     | 0.842 | ug/l   | 96       |
| 58) Tetrachloroethene         | 8.550  | 164  | 8389     | 0.813 | ug/l   | 95       |
| 59) Chlorobenzene             | 9.444  | 112  | 21885    | 0.775 | ug/l   | 98       |
| 60) 1,1,1,2-Tetrachloroethane | 9.531  | 131  | 7715     | 0.763 | ug/l   | 97       |
| 61) Pentachloroethane         | 11.422 | 117  | 6101     | 0.778 | ug/l   | 91       |
| 62) Hexachloroethane          | 12.470 | 117  | 6203     | 0.778 | ug/l   | 92       |
| 63) Ethyl Benzene             | 9.566  | 91   | 33461    | 0.702 | ug/l   | 97       |
| 64) m/p-Xylenes               | 9.688  | 106  | 24288    | 1.351 | ug/l   | 94       |
| 65) o-Xylene                  | 10.097 | 106  | 12095    | 0.682 | ug/l   | 99       |
| 66) Styrene                   | 10.116 | 104  | 18581    | 0.656 | ug/l   | 97       |
| 67) Bromoform                 | 10.290 | 173  | 4135     | 0.793 | ug/l   | 94       |
| 69) Isopropylbenzene          | 10.479 | 105  | 30355    | 0.668 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 9425     | 0.842 | ug/l   | 100      |
| 71) 1,2,3-Trichloropropane    | 10.823 | 75   | 7914m    | 0.927 | ug/l   |          |
| 72) Bromobenzene              | 10.782 | 156  | 8306     | 0.763 | ug/l   | 91       |
| 73) n-propylbenzene           | 10.901 | 120  | 8118     | 0.669 | ug/l   | 97       |
| 74) 2-Chlorotoluene           | 10.984 | 126  | 7069     | 0.637 | ug/l   | 85       |
| 75) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 24512    | 0.638 | ug/l   | 99       |
| 76) 4-Chlorotoluene           | 11.097 | 126  | 8022     | 0.691 | ug/l   | 91       |
| 77) tert-Butylbenzene         | 11.415 | 119  | 24699    | 0.677 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 22459    | 0.579 | ug/l   | 97       |
| 79) sec-Butylbenzene          | 11.640 | 105  | 32025    | 0.632 | ug/l   | 96       |
| 80) Nitrobenzene              | 13.235 | 77   | 963m     | 4.018 | ug/l   |          |
| 81) p-Isopropyltoluene        | 11.791 | 119  | 23580    | 0.607 | ug/l   | 96       |
| 82) 1,3-Dichlorobenzene       | 11.743 | 146  | 17437    | 0.756 | ug/l   | 100      |
| 83) 1,4-Dichlorobenzene       | 11.836 | 146  | 15728    | 0.682 | ug/l   | 92       |
| 84) n-Butylbenzene            | 12.206 | 91   | 21259    | 0.582 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene       | 12.209 | 146  | 16458    | 0.756 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropr... | 13.000 | 75   | 1238     | 0.813 | ug/l   | 89       |
| 87) 1,2,4-Trichlorobenzene    | 13.843 | 180  | 8393     | 0.720 | ug/l   | 99       |
| 88) Hexachlorobutadiene       | 14.016 | 225  | 5352     | 0.735 | ug/l   | 96       |
| 89) Naphthalene               | 14.090 | 128  | 13815    | 0.747 | ug/l   | 97       |
| 90) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 8128     | 0.767 | ug/l   | 99       |

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

