

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU013023\  
 Data File : VU052867.D  
 Acq On : 30 Jan 2023 18:13  
 Operator : JC/MD  
 Sample : RL CHECK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL CHECK

Quant Time: Jan 31 13:15:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U012323DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jan 24 05:16:59 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 02/01/2023  
 Supervised By :Mahesh Dadoda 02/01/2023

| Compound                     | R.T.   | QIon | Response | Conc       | Units  | Dev(Min)                                   |
|------------------------------|--------|------|----------|------------|--------|--------------------------------------------|
| -----                        |        |      |          |            |        |                                            |
| Internal Standards           |        |      |          |            |        |                                            |
| 1) Fluorobenzene             | 6.112  | 96   | 26191    | 1.000 ug/l | # 0.00 | 02/01/2023<br>Supervised By :Mahesh Dadoda |
| System Monitoring Compounds  |        |      |          |            |        |                                            |
| 57) 4-Bromofluorobenzene     | 10.629 | 95   | 7399     | 0.849 ug/l | 0.00   |                                            |
| Spiked Amount 1.000          |        |      | Recovery | = 85.000%  |        |                                            |
| 68) 1,2-Dichlorobenzene-d4   | 12.189 | 152  | 9091     | 1.014 ug/l | 0.00   | 02/01/2023                                 |
| Spiked Amount 1.000          |        |      | Recovery | = 101.000% |        |                                            |
| Target Compounds             |        |      |          |            | Qvalue |                                            |
| 2) Dichlorodifluoromethane   | 1.385  | 85   | 3997     | 0.451 ug/l | 87     |                                            |
| 3) Chloromethane             | 1.520  | 50   | 3430     | 0.408 ug/l | 92     |                                            |
| 4) Vinyl Chloride            | 1.604  | 62   | 3068     | 0.378 ug/l | 99     |                                            |
| 5) Bromomethane              | 1.858  | 94   | 2759     | 0.654 ug/l | 94     |                                            |
| 6) Chloroethane              | 1.935  | 64   | 2803     | 0.574 ug/l | 97     |                                            |
| 7) Trichlorofluoromethane    | 2.137  | 101  | 7161     | 0.605 ug/l | 93     |                                            |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101  | 3893     | 0.602 ug/l | 96     |                                            |
| 9) 1,1-Dichloroethene        | 2.578  | 96   | 3291     | 0.538 ug/l | 86     |                                            |
| 10) Iodomethane              | 2.723  | 142  | 3738     | 0.553 ug/l | 90     |                                            |
| 11) Allyl Chloride           | 2.922  | 41   | 3957     | 0.542 ug/l | 98     |                                            |
| 12) Acrylonitrile            | 3.324  | 53   | 1488     | 1.148 ug/l | 95     |                                            |
| 13) Acetone                  | 2.652  | 43   | 4885     | 2.658 ug/l | 94     |                                            |
| 14) Carbon Disulfide         | 2.793  | 76   | 9582     | 0.468 ug/l | 100    |                                            |
| 15) Methylene Chloride       | 3.044  | 84   | 6395     | 0.866 ug/l | 95     |                                            |
| 16) trans-1,2-Dichloroethene | 3.346  | 96   | 4011     | 0.590 ug/l | # 92   |                                            |
| 17) 1,1-Dichloroethane       | 3.864  | 63   | 6847     | 0.596 ug/l | 99     |                                            |
| 18) 2-Butanone               | 4.729  | 43   | 5418     | 2.538 ug/l | 89     |                                            |
| 19) Cyclohexane              | 5.382  | 56   | 4478     | 0.443 ug/l | 85     |                                            |
| 20) Methylcyclohexane        | 6.755  | 83   | 3180     | 0.282 ug/l | # 87   |                                            |
| 21) 2,2-Dichloropropane      | 4.658  | 77   | 6593     | 0.618 ug/l | 97     |                                            |
| 22) cis-1,2-Dichloroethene   | 4.668  | 96   | 3594     | 0.506 ug/l | 78     |                                            |
| 23) Diethyl Ether            | 2.375  | 59   | 2331     | 0.540 ug/l | 95     |                                            |
| 24) tert-Butyl Alcohol       | 3.263  | 59   | 3874m    | 7.447 ug/l |        |                                            |
| 25) Methyl tert-Butyl Ether  | 3.369  | 73   | 8482     | 0.605 ug/l | # 86   |                                            |
| 26) Bromochloromethane       | 4.970  | 128  | 1886     | 0.568 ug/l | 71     |                                            |
| 27) Chloroform               | 5.086  | 83   | 8684     | 0.706 ug/l | 100    |                                            |
| 28) 1,1,1-Trichloroethane    | 5.314  | 97   | 7067     | 0.622 ug/l | 97     |                                            |
| 29) 1,1-Dichloropropene      | 5.520  | 75   | 4563     | 0.476 ug/l | 98     |                                            |
| 30) Carbon Tetrachloride     | 5.517  | 117  | 5882     | 0.570 ug/l | 93     |                                            |
| 31) Isopropyl Ether          | 3.996  | 45   | 9447     | 0.572 ug/l | 90     |                                            |
| 32) Ethyl-t-butyl ether      | 4.504  | 59   | 9339     | 0.606 ug/l | 98     |                                            |
| 33) Tert-Amyl methyl ether   | 5.948  | 73   | 5260     | 0.386 ug/l | # 82   |                                            |
| 34) Propionitrile            | 4.803  | 54   | 1398     | 2.860 ug/l | # 5    |                                            |
| 35) Benzene                  | 5.771  | 78   | 12747    | 0.458 ug/l | 98     |                                            |
| 36) 1,2-Dichloroethane       | 5.790  | 62   | 4152     | 0.497 ug/l | # 89   |                                            |
| 37) Trichloroethene          | 6.539  | 130  | 3804     | 0.502 ug/l | 100    |                                            |
| 38) 1,2-Dichloropropane      | 6.793  | 63   | 2520     | 0.357 ug/l | 97     |                                            |
| 39) Methacrylonitrile        | 4.980  | 41   | 1154     | 0.591 ug/l | # 89   |                                            |
| 40) Methyl acrylate          | 4.858  | 55   | 2016     | 0.582 ug/l | # 74   |                                            |
| 41) Tetrahydrofuran          | 5.079  | 42   | 1049     | 1.080 ug/l | # 84   |                                            |
| 42) 1-Chlorobutane           | 5.449  | 56   | 6453     | 0.527 ug/l | 94     |                                            |
| 43) Dibromomethane           | 6.922  | 93   | 1634     | 0.458 ug/l | 92     |                                            |
| 44) Bromodichloromethane     | 7.105  | 83   | 4549     | 0.470 ug/l | # 99   |                                            |

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 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RL CHECK

Quant Time: Jan 31 13:15:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U012323DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jan 24 05:16:59 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 02/01/2023  
 Supervised By :Mahesh Dadoda 02/01/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.800  | 43   | 5195     | 1.385 | ug/l   | 95       |
| 46) t-1,4-Dichloro-2-butene   | 10.822 | 75   | 1670m    | 0.849 | ug/l   | 95       |
| 47) Methyl methacrylate       | 6.970  | 69   | 1695     | 0.534 | ug/l   | 91       |
| 48) Ethyl methacrylate        | 8.340  | 69   | 1702     | 0.296 | ug/l   | 92       |
| 49) Toluene                   | 7.970  | 92   | 5970     | 0.354 | ug/l   | 97       |
| 50) t-1,3-Dichloropropene     | 8.211  | 75   | 2818     | 0.334 | ug/l   | 90       |
| 51) cis-1,3-Dichloropropene   | 7.607  | 75   | 3448     | 0.347 | ug/l   | 95       |
| 52) 1,1,2-Trichloroethane     | 8.401  | 97   | 2234     | 0.440 | ug/l # | 88       |
| 53) 1,3-Dichloropropane       | 8.575  | 76   | 3443     | 0.392 | ug/l   | 89       |
| 54) 2-Hexanone                | 8.690  | 43   | 3984     | 1.214 | ug/l   | 96       |
| 55) Dibromochloromethane      | 8.809  | 129  | 3096     | 0.466 | ug/l   | 91       |
| 56) 1,2-Dibromoethane         | 8.915  | 107  | 1807     | 0.374 | ug/l   | 83       |
| 58) Tetrachloroethene         | 8.552  | 164  | 3192     | 0.467 | ug/l   | 91       |
| 59) Chlorobenzene             | 9.443  | 112  | 6646     | 0.362 | ug/l   | 90       |
| 60) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 3327     | 0.468 | ug/l   | 93       |
| 61) Pentachloroethane         | 11.426 | 117  | 2722     | 0.467 | ug/l   | 97       |
| 62) Hexachloroethane          | 12.471 | 117  | 2624     | 0.446 | ug/l   | 91       |
| 63) Ethyl Benzene             | 9.568  | 91   | 8875     | 0.298 | ug/l   | 89       |
| 64) m/p-Xylenes               | 9.693  | 106  | 6910     | 0.582 | ug/l   | 96       |
| 65) o-Xylene                  | 10.095 | 106  | 3489     | 0.305 | ug/l   | 92       |
| 66) Styrene                   | 10.111 | 104  | 5299     | 0.651 | ug/l   | 95       |
| 67) Bromoform                 | 10.285 | 173  | 1684     | 0.430 | ug/l # | 93       |
| 69) Isopropylbenzene          | 10.481 | 105  | 8841     | 0.303 | ug/l   | 99       |
| 70) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 2715     | 0.429 | ug/l # | 97       |
| 71) 1,2,3-Trichloropropane    | 10.819 | 75   | 1633m    | 0.298 | ug/l   |          |
| 72) Bromobenzene              | 10.780 | 156  | 2756     | 0.372 | ug/l   | 88       |
| 73) n-propylbenzene           | 10.902 | 120  | 2423     | 0.676 | ug/l   | 97       |
| 74) 2-Chlorotoluene           | 10.986 | 126  | 2410     | 0.327 | ug/l   | 89       |
| 75) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 6985     | 0.643 | ug/l   | 95       |
| 76) 4-Chlorotoluene           | 11.092 | 126  | 2470     | 0.327 | ug/l   | 81       |
| 77) tert-Butylbenzene         | 11.417 | 119  | 7918     | 0.313 | ug/l   | 93       |
| 78) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 7127     | 0.677 | ug/l   | 98       |
| 79) sec-Butylbenzene          | 11.639 | 105  | 9026     | 0.649 | ug/l   | 96       |
| 80) Nitrobenzene              | 13.214 | 77   | 818      | 2.088 | ug/l # | 82       |
| 81) p-Isopropyltoluene        | 11.790 | 119  | 7786     | 0.702 | ug/l   | 95       |
| 82) 1,3-Dichlorobenzene       | 11.742 | 146  | 6007     | 0.398 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene       | 11.835 | 146  | 5357     | 0.353 | ug/l   | 97       |
| 84) n-Butylbenzene            | 12.208 | 91   | 6522     | 0.759 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene       | 12.208 | 146  | 5703     | 0.400 | ug/l   | 94       |
| 86) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 380      | 0.324 | ug/l   | 90       |
| 87) 1,2,4-Trichlorobenzene    | 13.838 | 180  | 3243     | 0.379 | ug/l   | 96       |
| 88) Hexachlorobutadiene       | 14.018 | 225  | 2994     | 0.500 | ug/l   | 98       |
| 89) Naphthalene               | 14.089 | 128  | 4730     | 0.285 | ug/l # | 86       |
| 90) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 2747     | 0.338 | ug/l   | 97       |

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

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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Quant Time: Jan 31 13:15:46 2023  
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