

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU031419\  
 Data File : VU030008.D  
 Acq On : 12 Mar 2019 15:52  
 Operator : JC/SP  
 Sample : K1560-07 LOD MDL0.25ppb  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations  
 APPROVED

MMDadoda  
 3/13/2019 12:56:16 PM

Quant Time: Mar 13 09:34:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\524U031419DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Mar 13 04:21:52 2019  
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
| 1) Fluorobenzene   | 5.74 | 96   | 59056    | 1.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                            |       |     |          |      |        |      |
|----------------------------|-------|-----|----------|------|--------|------|
| 57) 4-Bromofluorobenzene   | 10.31 | 95  | 19476    | 0.91 | ug/l   | 0.00 |
| Spiked Amount              | 1.000 |     | Recovery | =    | 91.00% |      |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 23161    | 0.95 | ug/l   | 0.00 |
| Spiked Amount              | 1.000 |     | Recovery | =    | 95.00% |      |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 5450  | 0.252 | ug/l   | 99     |
| 3) Chloromethane              | 1.33 | 50  | 7047  | 0.287 | ug/l   | 93     |
| 4) Vinyl Chloride             | 1.40 | 62  | 5368  | 0.255 | ug/l   | 99     |
| 5) Bromomethane               | 1.63 | 94  | 3426  | 0.285 | ug/l   | 98     |
| 6) Chloroethane               | 1.70 | 64  | 3279  | 0.270 | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 1.88 | 101 | 7377  | 0.270 | ug/l   | 91     |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 3620  | 0.244 | ug/l   | 94     |
| 9) 1,1-Dichloroethene         | 2.28 | 96  | 3512  | 0.238 | ug/l   | 86     |
| 10) Iodomethane               | 2.41 | 142 | 2876  | 0.225 | ug/l   | 98     |
| 11) Allyl Chloride            | 2.59 | 41  | 5067  | 0.243 | ug/l   | 99     |
| 12) Acrylonitrile             | 2.94 | 53  | 1960  | 0.614 | ug/l   | 90     |
| 13) Acetone                   | 2.32 | 43  | 4972  | 1.790 | ug/l   | 90     |
| 14) Carbon Disulfide          | 2.48 | 76  | 12897 | 0.251 | ug/l # | 94     |
| 15) Methylene Chloride        | 2.70 | 84  | 6158  | 0.351 | ug/l   | 95     |
| 16) trans-1,2-Dichloroethene  | 2.98 | 96  | 4301  | 0.253 | ug/l   | 94     |
| 17) 1,1-Dichloroethane        | 3.44 | 63  | 7400  | 0.257 | ug/l   | 96     |
| 18) 2-Butanone                | 4.29 | 43  | 4045  | 1.052 | ug/l   | 99     |
| 19) Cyclohexane               | 4.99 | 56  | 5995m | 0.243 | ug/l   |        |
| 20) Methylcyclohexane         | 6.41 | 83  | 6527  | 0.240 | ug/l   | 96     |
| 21) 2,2-Dichloropropane       | 4.22 | 77  | 6438  | 0.266 | ug/l   | 96     |
| 22) cis-1,2-Dichloroethene    | 4.23 | 96  | 4549  | 0.240 | ug/l   | 97     |
| 23) Diethyl Ether             | 2.10 | 59  | 2913  | 0.265 | ug/l # | 85     |
| 24) tert-Butyl Alcohol        | 2.83 | 59  | 4055  | 3.442 | ug/l # | 86     |
| 25) Methyl tert-Butyl Ether   | 3.00 | 73  | 9203  | 0.247 | ug/l   | 99     |
| 26) Bromochloromethane        | 4.55 | 128 | 1980  | 0.239 | ug/l   | 92     |
| 27) Chloroform                | 4.68 | 83  | 7145  | 0.236 | ug/l   | 99     |
| 28) 1,1,1-Trichloroethane     | 4.91 | 97  | 6302  | 0.253 | ug/l   | 98     |
| 29) 1,1-Dichloropropene       | 5.13 | 75  | 5517  | 0.243 | ug/l   | 98     |
| 30) Carbon Tetrachloride      | 5.13 | 117 | 5090  | 0.229 | ug/l   | 96     |
| 31) Isopropyl Ether           | 3.57 | 45  | 10542 | 0.260 | ug/l   | 98     |
| 32) Ethyl-t-butyl ether       | 4.08 | 59  | 9612  | 0.246 | ug/l   | 99     |
| 33) Tert-Amyl methyl ether    | 5.59 | 73  | 8518  | 0.239 | ug/l   | 97     |
| 34) Propionitrile             | 4.34 | 54  | 861   | 0.803 | ug/l # | 45     |
| 35) Benzene                   | 5.39 | 78  | 16489 | 0.249 | ug/l   | 93     |
| 36) 1,2-Dichloroethane        | 5.41 | 62  | 4463  | 0.252 | ug/l # | 92     |
| 37) Trichloroethene           | 6.19 | 130 | 5040  | 0.264 | ug/l   | 100    |
| 38) 1,2-Dichloropropane       | 6.44 | 63  | 4399  | 0.261 | ug/l   | 96     |
| 41) Tetrahydrofuran           | 4.65 | 42  | 926m  | 0.358 | ug/l   |        |
| 42) 1-Chlorobutane            | 5.06 | 56  | 7368  | 0.248 | ug/l   | 95     |
| 43) Dibromomethane            | 6.56 | 93  | 2275  | 0.261 | ug/l   | 89     |
| 44) Bromodichloromethane      | 6.76 | 83  | 4788  | 0.230 | ug/l   | 91     |

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 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Mar 13 04:21:52 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.47  | 43   | 10410    | 1.208 | ug/l   | 96       |
| 46) t-1,4-Dichloro-2-butene   | 10.52 | 75   | 1732m    | 1.662 | ug/l   |          |
| 47) Methyl methacrylate       | 6.64  | 69   | 2840     | 0.389 | ug/l   | 88       |
| 49) Toluene                   | 7.64  | 92   | 9381     | 0.235 | ug/l   | 94       |
| 50) t-1,3-Dichloropropene     | 7.89  | 75   | 4166     | 0.224 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.28  | 75   | 5233     | 0.223 | ug/l # | 89       |
| 52) 1,1,2-Trichloroethane     | 8.07  | 97   | 3004     | 0.244 | ug/l   | 93       |
| 53) 1,3-Dichloropropane       | 8.25  | 76   | 5099     | 0.247 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.38  | 43   | 7152     | 1.152 | ug/l   | 87       |
| 55) Dibromochloromethane      | 8.48  | 129  | 3285     | 0.221 | ug/l   | 95       |
| 56) 1,2-Dibromoethane         | 8.59  | 107  | 2838     | 0.239 | ug/l   | 89       |
| 58) Tetrachloroethene         | 8.22  | 164  | 4642     | 0.268 | ug/l   | 96       |
| 59) Chlorobenzene             | 9.12  | 112  | 11477    | 0.251 | ug/l   | 97       |
| 60) 1,1,1,2-Tetrachloroethane | 9.21  | 131  | 3987     | 0.247 | ug/l   | 100      |
| 61) Pentachloroethane         | 11.10 | 117  | 2797     | 0.225 | ug/l   | 91       |
| 62) Hexachloroethane          | 12.14 | 117  | 2900     | 0.231 | ug/l   | 90       |
| 63) Ethyl Benzene             | 9.25  | 91   | 16808    | 0.224 | ug/l   | 100      |
| 64) m/p-Xylenes               | 9.37  | 106  | 12521    | 0.424 | ug/l   | 99       |
| 65) o-Xylene                  | 9.78  | 106  | 6354     | 0.220 | ug/l   | 97       |
| 66) Styrene                   | 9.79  | 104  | 9735     | 0.205 | ug/l   | 99       |
| 67) Bromoform                 | 9.96  | 173  | 1806     | 0.213 | ug/l # | 97       |
| 69) Isopropylbenzene          | 10.16 | 105  | 18537    | 0.246 | ug/l   | 100      |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83   | 4373     | 0.288 | ug/l   | 97       |
| 71) 1,2,3-Trichloropropane    | 10.50 | 75   | 3331m    | 0.292 | ug/l   |          |
| 72) Bromobenzene              | 10.45 | 156  | 4456     | 0.225 | ug/l   | 92       |
| 73) n-propylbenzene           | 10.59 | 120  | 5049     | 0.236 | ug/l   | 97       |
| 74) 2-Chlorotoluene           | 10.66 | 126  | 4189     | 0.223 | ug/l   | 97       |
| 75) 1,3,5-Trimethylbenzene    | 10.77 | 105  | 13143    | 0.204 | ug/l   | 100      |
| 76) 4-Chlorotoluene           | 10.77 | 126  | 4835     | 0.253 | ug/l   | 91       |
| 77) tert-Butylbenzene         | 11.10 | 119  | 13821    | 0.220 | ug/l   | 96       |
| 78) 1,2,4-Trimethylbenzene    | 11.15 | 105  | 15737    | 0.241 | ug/l   | 98       |
| 79) sec-Butylbenzene          | 11.32 | 105  | 22032    | 0.261 | ug/l   | 100      |
| 81) p-Isopropyltoluene        | 11.48 | 119  | 17831    | 0.252 | ug/l   | 98       |
| 82) 1,3-Dichlorobenzene       | 11.42 | 146  | 12583    | 0.315 | ug/l   | 99       |
| 83) 1,4-Dichlorobenzene       | 11.42 | 146  | 12583    | 0.313 | ug/l   | 99       |
| 84) n-Butylbenzene            | 11.89 | 91   | 15303    | 0.232 | ug/l   | 98       |
| 85) 1,2-Dichlorobenzene       | 11.88 | 146  | 8720     | 0.234 | ug/l   | 95       |
| 87) 1,2,4-Trichlorobenzene    | 13.50 | 180  | 5650     | 0.210 | ug/l   | 94       |
| 88) Hexachlorobutadiene       | 13.69 | 225  | 6959     | 0.478 | ug/l   | 94       |
| 90) 1,2,3-Trichlorobenzene    | 13.99 | 180  | 6625     | 0.272 | ug/l   | 97       |

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

