

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\  
 Data File : VU027747.D  
 Acq On : 22 Oct 2018 18:21  
 Operator : MD/SY  
 Sample : VSTDIC001  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

sam  
 10/24/2018 2:18:57 PM

Quant Time: Oct 23 04:33:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Oct 23 04:01:57 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|--------|---------|----------|
| -----                         | ----- | ----- | -----    | -----  | -----   | -----    |
| 1) Fluorobenzene              | 5.75  | 96    | 13311    | 1.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |        |         |          |
| 57) 4-Bromofluorobenzene      | 10.31 | 95    | 4947     | 0.97   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 97.00%  |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.86 | 152   | 4809     | 1.01   | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =      | 101.00% |          |
| Target Compounds              |       |       |          |        |         |          |
|                               |       |       |          |        | Ovalue  |          |
| 2) Dichlorodifluoromethane    | 1.21  | 85    | 5531     | 0.985  | ug/l    | 95       |
| 3) Chloromethane              | 1.33  | 50    | 5960     | 0.988  | ug/l    | 95       |
| 4) Vinyl Chloride             | 1.41  | 62    | 5349     | 0.949  | ug/l    | 98       |
| 5) Bromomethane               | 1.63  | 94    | 2823     | 1.045  | ug/l    | 100      |
| 6) Chloroethane               | 1.70  | 64    | 3092     | 0.559  | ug/l    | 95       |
| 7) Trichlorofluoromethane     | 1.89  | 101   | 6681     | 1.008  | ug/l    | 96       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29  | 101   | 3432     | 0.937  | ug/l    | 97       |
| 9) 1,1-Dichloroethene         | 2.29  | 96    | 3103     | 0.949  | ug/l    | 99       |
| 10) Iodomethane               | 2.41  | 142   | 3801     | 0.864  | ug/l    | 100      |
| 11) Allyl Chloride            | 2.59  | 41    | 7206     | 0.939  | ug/l    | 98       |
| 12) Acrylonitrile             | 2.95  | 53    | 2065     | 1.986  | ug/l #  | 83       |
| 13) Acetone                   | 2.35  | 43    | 4915     | 5.397  | ug/l    | 98       |
| 14) Carbon Disulfide          | 2.48  | 76    | 11633    | 0.982  | ug/l    | 100      |
| 15) Methylene Chloride        | 2.70  | 84    | 3808     | 0.954  | ug/l    | 98       |
| 16) trans-1,2-Dichloroethene  | 2.98  | 96    | 3315     | 0.904  | ug/l    | 90       |
| 17) 1,1-Dichloroethane        | 3.45  | 63    | 7656     | 1.000  | ug/l #  | 96       |
| 18) 2-Butanone                | 4.30  | 43    | 7819m    | 5.556  | ug/l    |          |
| 19) Cyclohexane               | 4.99  | 56    | 6424     | 0.917  | ug/l    | 97       |
| 20) Methylcyclohexane         | 6.41  | 83    | 6624     | 0.968  | ug/l    | 95       |
| 21) 2,2-Dichloropropane       | 4.23  | 77    | 7032     | 1.037  | ug/l    | 95       |
| 22) cis-1,2-Dichloroethene    | 4.23  | 96    | 4226     | 1.015  | ug/l    | 97       |
| 23) Diethyl Ether             | 2.11  | 59    | 3013     | 0.978  | ug/l    | 96       |
| 24) tert-Butyl Alcohol        | 2.89  | 59    | 3421m    | 11.595 | ug/l    |          |
| 25) Methyl tert-Butyl Ether   | 3.01  | 73    | 9549     | 0.923  | ug/l    | 98       |
| 26) Bromochloromethane        | 4.56  | 128   | 1584     | 0.940  | ug/l    | 98       |
| 27) Chloroform                | 4.68  | 83    | 7456     | 0.988  | ug/l    | 92       |
| 28) 1,1,1-Trichloroethane     | 4.92  | 97    | 6373     | 0.978  | ug/l    | 98       |
| 29) 1,1-Dichloropropene       | 5.14  | 75    | 5594     | 0.975  | ug/l    | 97       |
| 30) Carbon Tetrachloride      | 5.13  | 117   | 5754     | 0.991  | ug/l    | 95       |
| 31) Isopropyl Ether           | 3.58  | 45    | 13480    | 0.938  | ug/l    | 92       |
| 32) Ethyl-t-butyl ether       | 4.08  | 59    | 12023    | 0.948  | ug/l    | 95       |
| 33) Tert-Amyl methyl ether    | 5.59  | 73    | 10033    | 0.942  | ug/l    | 98       |
| 34) Propionitrile             | 4.36  | 54    | 1617     | 4.278  | ug/l #  | 80       |
| 35) Benzene                   | 5.40  | 78    | 15759    | 0.976  | ug/l    | 94       |
| 36) 1,2-Dichloroethane        | 5.41  | 62    | 5458     | 1.060  | ug/l #  | 96       |
| 37) Trichloroethene           | 6.19  | 130   | 3865     | 0.972  | ug/l    | 93       |
| 38) 1,2-Dichloropropane       | 6.44  | 63    | 4624     | 1.015  | ug/l    | 94       |
| 39) Methacrylonitrile         | 4.56  | 41    | 1925     | 1.034  | ug/l #  | 86       |
| 40) Methyl acrylate           | 4.45  | 55    | 2445     | 0.968  | ug/l #  | 83       |
| 41) Tetrahydrofuran           | 4.68  | 42    | 2125     | 2.124  | ug/l #  | 84       |
| 42) 1-Chlorobutane            | 5.07  | 56    | 9451     | 1.052  | ug/l    | 98       |

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 QLast Update : Tue Oct 23 04:01:57 2018  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 43) Dibromomethane             | 6.56  | 93   | 1956     | 0.964 | ug/l   | 98       |
| 44) Bromodichloromethane       | 6.76  | 83   | 5369     | 0.985 | ug/l   | 91       |
| 45) 4-Methyl-2-Pentanone       | 7.47  | 43   | 16386    | 4.771 | ug/l   | 97       |
| 46) t-1,4-Dichloro-2-butene    | 10.52 | 75   | 2049m    | 1.614 | ug/l   |          |
| 47) Methyl methacrylate        | 6.63  | 69   | 4153     | 1.850 | ug/l   | 98       |
| 48) Ethyl methacrylate         | 8.03  | 69   | 4018     | 0.836 | ug/l   | 88       |
| 49) Toluene                    | 7.64  | 92   | 9171     | 0.938 | ug/l   | 97       |
| 50) t-1,3-Dichloropropene      | 7.89  | 75   | 5246     | 0.947 | ug/l   | 95       |
| 51) cis-1,3-Dichloropropene    | 7.27  | 75   | 6436     | 0.980 | ug/l   | 94       |
| 52) 1,1,2-Trichloroethane      | 8.07  | 97   | 2638     | 0.919 | ug/l   | 94       |
| 53) 1,3-Dichloropropane        | 8.24  | 76   | 5232     | 0.987 | ug/l   | 99       |
| 54) 2-Hexanone                 | 8.37  | 43   | 11494    | 4.543 | ug/l   | 96       |
| 55) Dibromochloromethane       | 8.48  | 129  | 3256     | 0.932 | ug/l   | 96       |
| 56) 1,2-Dibromoethane          | 8.59  | 107  | 2588     | 0.955 | ug/l   | 99       |
| 58) Tetrachloroethene          | 8.23  | 164  | 3811     | 1.059 | ug/l   | 97       |
| 59) Chlorobenzene              | 9.12  | 112  | 10256    | 1.001 | ug/l   | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 3505     | 0.944 | ug/l   | 98       |
| 61) Pentachloroethane          | 11.10 | 117  | 2744     | 0.955 | ug/l   | 99       |
| 62) Hexachloroethane           | 12.14 | 117  | 2765     | 0.893 | ug/l   | 94       |
| 63) Ethyl Benzene              | 9.25  | 91   | 18795    | 0.993 | ug/l   | 99       |
| 64) m/p-Xylenes                | 9.38  | 106  | 13263    | 1.916 | ug/l   | 96       |
| 65) o-Xylene                   | 9.78  | 106  | 6740     | 0.975 | ug/l   | 99       |
| 66) Styrene                    | 9.79  | 104  | 10889    | 0.952 | ug/l   | 100      |
| 67) Bromoform                  | 9.96  | 173  | 1828     | 0.902 | ug/l # | 94       |
| 69) Isopropylbenzene           | 10.17 | 105  | 18658    | 1.009 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 3521     | 0.946 | ug/l # | 98       |
| 71) 1,2,3-Trichloropropane     | 10.50 | 75   | 2896m    | 1.001 | ug/l   |          |
| 72) Bromobenzene               | 10.45 | 156  | 3933     | 0.951 | ug/l   | 91       |
| 73) n-propylbenzene            | 10.59 | 120  | 4412     | 0.931 | ug/l   | 81       |
| 74) 2-Chlorotoluene            | 10.67 | 126  | 3961     | 0.936 | ug/l   | 89       |
| 75) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 14913    | 0.966 | ug/l   | 97       |
| 76) 4-Chlorotoluene            | 10.77 | 126  | 4231     | 1.038 | ug/l   | 93       |
| 77) tert-Butylbenzene          | 11.10 | 119  | 15340    | 1.002 | ug/l   | 98       |
| 78) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 15167    | 0.953 | ug/l   | 96       |
| 79) sec-Butylbenzene           | 11.32 | 105  | 19654    | 1.003 | ug/l   | 99       |
| 80) Nitrobenzene               | 12.87 | 77   | 387      | 2.237 | ug/l # | 44       |
| 81) p-Isopropyltoluene         | 11.48 | 119  | 15885    | 0.995 | ug/l   | 99       |
| 82) 1,3-Dichlorobenzene        | 11.42 | 146  | 8228     | 1.035 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene        | 11.51 | 146  | 8153     | 1.039 | ug/l   | 98       |
| 84) n-Butylbenzene             | 11.89 | 91   | 14865    | 0.986 | ug/l   | 99       |
| 85) 1,2-Dichlorobenzene        | 11.88 | 146  | 7692     | 1.015 | ug/l   | 97       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 586      | 0.890 | ug/l   | 96       |
| 87) 1,2,4-Trichlorobenzene     | 13.50 | 180  | 5054     | 0.910 | ug/l   | 93       |
| 88) Hexachlorobutadiene        | 13.69 | 225  | 3294     | 0.996 | ug/l   | 99       |
| 89) Naphthalene                | 13.75 | 128  | 9690     | 0.882 | ug/l   | 100      |
| 90) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 5142     | 1.002 | ug/l   | 98       |

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

