

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U081220\  
 Data File : VU039840.D  
 Acq On : 12 Aug 2020 12:29  
 Operator : SY/MD  
 Sample : VU0812WBS01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0812WBS01

Manual Integrations  
 APPROVED

MMDadoda

Quant Time: Aug 13 03:06:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jul 31 07:12:27 2020  
 Response via : Initial Calibration

Internal Standards R.T. QIon Response Conc Units Dev(Min) 8/13/2020 11:35:51 AM

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 1) Fluorobenzene 6.12 96 23214 1.00 ug/l 0.00

System Monitoring Compounds

|                            |       |     |          |           |        |
|----------------------------|-------|-----|----------|-----------|--------|
| 57) 4-Bromofluorobenzene   | 10.63 | 95  | 7200     | 0.79 ug/l | 0.00   |
| Spiked Amount 1.000        |       |     | Recovery | =         | 79.00% |
| 68) 1,2-Dichlorobenzene-d4 | 12.19 | 152 | 6705     | 0.76 ug/l | 0.00   |
| Spiked Amount 1.000        |       |     | Recovery | =         | 76.00% |

Target Compounds

|                               | R.T. | QIon | Response | Conc   | Units  | Dev(Min) | Ovalue |
|-------------------------------|------|------|----------|--------|--------|----------|--------|
| 2) Dichlorodifluoromethane    | 1.39 | 85   | 13206    | 1.637  | ug/l   |          | 95     |
| 3) Chloromethane              | 1.53 | 50   | 14998    | 1.497  | ug/l   |          | 99     |
| 4) Vinyl Chloride             | 1.61 | 62   | 15396    | 1.667  | ug/l   |          | 99     |
| 5) Bromomethane               | 1.86 | 94   | 8033     | 1.272  | ug/l   |          | 92     |
| 6) Chloroethane               | 1.94 | 64   | 11613    | 1.812  | ug/l   |          | 96     |
| 7) Trichlorofluoromethane     | 2.15 | 101  | 20780    | 1.701  | ug/l   |          | 96     |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 12455    | 1.777  | ug/l   |          | 96     |
| 9) 1,1-Dichloroethene         | 2.59 | 96   | 9984     | 1.548  | ug/l   |          | 98     |
| 10) Iodomethane               | 2.73 | 142  | 4350     | 0.669  | ug/l   |          | 99     |
| 11) Allyl Chloride            | 2.94 | 41   | 24063    | 1.729  | ug/l   |          | 98     |
| 12) Acrylonitrile             | 3.33 | 53   | 7500     | 3.313  | ug/l # |          | 93     |
| 13) Acetone                   | 2.64 | 43   | 17815    | 8.363  | ug/l   |          | 91     |
| 14) Carbon Disulfide          | 2.80 | 76   | 30077    | 1.272  | ug/l   |          | 99     |
| 15) Methylene Chloride        | 3.06 | 84   | 14076    | 1.566  | ug/l   |          | 93     |
| 16) trans-1,2-Dichloroethene  | 3.37 | 96   | 11789    | 1.608  | ug/l   |          | 98     |
| 17) 1,1-Dichloroethane        | 3.89 | 63   | 28170    | 1.749  | ug/l   |          | 99     |
| 18) 2-Butanone                | 4.75 | 43   | 28682    | 8.007  | ug/l   |          | 99     |
| 19) Cyclohexane               | 5.39 | 56   | 23480m   | 1.507  | ug/l   |          |        |
| 20) Methylcyclohexane         | 6.77 | 83   | 16876    | 1.461  | ug/l   |          | 96     |
| 21) 2,2-Dichloropropane       | 4.68 | 77   | 22493    | 1.712  | ug/l   |          | 98     |
| 22) cis-1,2-Dichloroethene    | 4.69 | 96   | 13998    | 1.771  | ug/l   |          | 98     |
| 23) Diethyl Ether             | 2.39 | 59   | 10746    | 1.630  | ug/l   |          | 94     |
| 24) tert-Butyl Alcohol        | 3.22 | 59   | 14621    | 11.223 | ug/l   |          | 97     |
| 25) Methyl tert-Butyl Ether   | 3.38 | 73   | 34510    | 1.640  | ug/l   |          | 94     |
| 26) Bromochloromethane        | 4.99 | 128  | 5211     | 1.611  | ug/l   |          | 94     |
| 27) Chloroform                | 5.11 | 83   | 26619    | 1.766  | ug/l   |          | 98     |
| 28) 1,1,1-Trichloroethane     | 5.33 | 97   | 20384    | 1.672  | ug/l   |          | 99     |
| 29) 1,1-Dichloropropene       | 5.54 | 75   | 19640    | 1.673  | ug/l   |          | 98     |
| 30) Carbon Tetrachloride      | 5.53 | 117  | 16577    | 1.663  | ug/l   |          | 98     |
| 31) Isopropyl Ether           | 4.02 | 45   | 51509    | 1.754  | ug/l   |          | 100    |
| 32) Ethyl-t-butyl ether       | 4.53 | 59   | 41475    | 1.659  | ug/l   |          | 98     |
| 33) Tert-Amyl methyl ether    | 5.97 | 73   | 34477    | 1.913  | ug/l   |          | 97     |
| 34) Propionitrile             | 4.81 | 54   | 7873     | 8.909  | ug/l # |          | 90     |
| 35) Benzene                   | 5.79 | 78   | 53374    | 1.838  | ug/l   |          | 99     |
| 36) 1,2-Dichloroethane        | 5.81 | 62   | 20366    | 1.870  | ug/l   |          | 99     |
| 37) Trichloroethene           | 6.55 | 130  | 11466    | 1.725  | ug/l   |          | 98     |
| 38) 1,2-Dichloropropane       | 6.81 | 63   | 14241    | 1.779  | ug/l   |          | 99     |
| 39) Methacrylonitrile         | 5.00 | 41   | 7231     | 1.553  | ug/l   |          | 96     |
| 40) Methyl acrylate           | 4.87 | 55   | 9743     | 1.622  | ug/l # |          | 96     |
| 41) Tetrahydrofuran           | 5.09 | 42   | 7667     | 3.272  | ug/l   |          | 93     |
| 42) 1-Chlorobutane            | 5.47 | 56   | 31115    | 1.688  | ug/l   |          | 100    |

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 Sample : VU0812WBS01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0812WBS01

Manual Integrations  
 APPROVED

MMDadoda

Quant Time: Aug 13 03:06:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Fri Jul 31 07:12:27 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) | 8/13/2020 11:35:51 AM |
|--------------------------------|-------|------|----------|--------|--------|----------|-----------------------|
| 43) Dibromomethane             | 6.93  | 93   | 7019     | 1.629  | ug/l   | 96       |                       |
| 44) Bromodichloromethane       | 7.12  | 83   | 17418    | 1.763  | ug/l   | 99       |                       |
| 45) 4-Methyl-2-Pentanone       | 7.81  | 43   | 49843    | 7.638  | ug/l   | 96       |                       |
| 46) t-1,4-Dichloro-2-butene    | 10.83 | 75   | 6257m    | 3.224  | ug/l   |          |                       |
| 47) Methyl methacrylate        | 6.98  | 69   | 12230    | 3.044  | ug/l   | 96       |                       |
| 48) Ethyl methacrylate         | 8.35  | 69   | 10789    | 1.459  | ug/l   | 99       |                       |
| 49) Toluene                    | 7.98  | 92   | 25712    | 1.487  | ug/l   | 100      |                       |
| 50) t-1,3-Dichloropropene      | 8.22  | 75   | 14395    | 1.618  | ug/l   | 99       |                       |
| 51) cis-1,3-Dichloropropene    | 7.62  | 75   | 16376    | 1.566  | ug/l   | 94       |                       |
| 52) 1,1,2-Trichloroethane      | 8.41  | 97   | 9084     | 1.623  | ug/l   | 97       |                       |
| 53) 1,3-Dichloropropane        | 8.58  | 76   | 17208    | 1.601  | ug/l   | 98       |                       |
| 54) 2-Hexanone                 | 8.70  | 43   | 35226    | 7.539  | ug/l   | 95       |                       |
| 55) Dibromochloromethane       | 8.82  | 129  | 9736     | 1.620  | ug/l   | 99       |                       |
| 56) 1,2-Dibromoethane          | 8.93  | 107  | 8312     | 1.541  | ug/l   | 98       |                       |
| 58) Tetrachloroethene          | 8.56  | 164  | 10382    | 1.785  | ug/l   | 91       |                       |
| 59) Chlorobenzene              | 9.45  | 112  | 27725    | 1.551  | ug/l   | 99       |                       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.54  | 131  | 10109    | 1.677  | ug/l   | 98       |                       |
| 61) Pentachloroethane          | 11.42 | 117  | 8175     | 1.544  | ug/l   | 91       |                       |
| 62) Hexachloroethane           | 12.47 | 117  | 7755     | 1.598  | ug/l   | 100      |                       |
| 63) Ethyl Benzene              | 9.57  | 91   | 46339    | 1.446  | ug/l   | 100      |                       |
| 64) m/p-Xylenes                | 9.70  | 106  | 37004    | 2.956  | ug/l   | 100      |                       |
| 65) o-Xylene                   | 10.10 | 106  | 17585    | 1.480  | ug/l   | 100      |                       |
| 66) Styrene                    | 10.11 | 104  | 29622    | 1.454  | ug/l   | 97       |                       |
| 67) Bromoform                  | 10.29 | 173  | 4806     | 1.568  | ug/l   | 97       |                       |
| 69) Isopropylbenzene           | 10.48 | 105  | 46455    | 1.463  | ug/l   | 100      |                       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 13511    | 1.677  | ug/l   | 98       |                       |
| 71) 1,2,3-Trichloropropane     | 10.83 | 75   | 10963m   | 1.806  | ug/l   |          |                       |
| 72) Bromobenzene               | 10.78 | 156  | 10716    | 1.486  | ug/l   | 90       |                       |
| 73) n-propylbenzene            | 10.90 | 120  | 13054    | 1.463  | ug/l   | 96       |                       |
| 74) 2-Chlorotoluene            | 10.98 | 126  | 11415    | 1.514  | ug/l   | 96       |                       |
| 75) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 41010    | 1.494  | ug/l   | 97       |                       |
| 76) 4-Chlorotoluene            | 11.10 | 126  | 12755    | 1.633  | ug/l   | 91       |                       |
| 77) tert-Butylbenzene          | 11.42 | 119  | 38571    | 1.465  | ug/l   | 98       |                       |
| 78) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 43315    | 1.539  | ug/l   | 99       |                       |
| 79) sec-Butylbenzene           | 11.64 | 105  | 57077    | 1.523  | ug/l   | 98       |                       |
| 80) Nitrobenzene               | 13.20 | 77   | 1517     | 11.126 | ug/l # | 87       |                       |
| 81) p-Isopropyltoluene         | 11.79 | 119  | 47736    | 1.581  | ug/l   | 99       |                       |
| 82) 1,3-Dichlorobenzene        | 11.74 | 146  | 25521    | 1.645  | ug/l   | 99       |                       |
| 83) 1,4-Dichlorobenzene        | 11.83 | 146  | 25079    | 1.607  | ug/l   | 99       |                       |
| 84) n-Butylbenzene             | 12.20 | 91   | 47324    | 1.475  | ug/l   | 98       |                       |
| 85) 1,2-Dichlorobenzene        | 12.21 | 146  | 23300    | 1.558  | ug/l   | 98       |                       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 2048     | 1.509  | ug/l   | 94       |                       |
| 87) 1,2,4-Trichlorobenzene     | 13.83 | 180  | 13800    | 1.475  | ug/l   | 99       |                       |
| 88) Hexachlorobutadiene        | 14.01 | 225  | 7657     | 1.803  | ug/l   | 98       |                       |
| 89) Naphthalene                | 14.08 | 128  | 43000    | 2.148  | ug/l   | 100      |                       |
| 90) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 18482    | 2.093  | ug/l   | 96       |                       |

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

