Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU072219\
Data File : VU033361.D
Acq On : 22 Jul 2019 19:16
Operator : JC/SP
Sample : VSTDICC001
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
MMDadoda
7/23/2019 8:54:41 AM

Quant Time: Jul 23 02:55:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U072219DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jul 23 02:41:20 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.72 | 96 | 26165 | 1.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 57) 4-Bromofluorobenzene | 10.30 | 95 | 9824 | 0.96 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 96.00% | | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.85 | 152 | 10522 | 0.99 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 11107 | 1.026 | ug/l | | 99 |
| 3) Chloromethane | 1.32 | 50 | 12821 | 1.073 | ug/l | | 99 |
| 4) Vinyl Chloride | 1.40 | 62 | 13718 | 1.029 | ug/l | | 99 |
| 5) Bromomethane | 1.62 | 94 | 8548 | 1.019 | ug/l | | 99 |
| 6) Chloroethane | 1.69 | 64 | 9927 | 1.061 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 1.87 | 101 | 19090 | 1.043 | ug/l | | 98 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 9696 | 1.027 | ug/l | | 97 |
| 9) 1,1-Dichloroethene | 2.27 | 96 | 9887 | 1.063 | ug/l | | 94 |
| 10) Iodomethane | 2.40 | 142 | 12266 | 0.982 | ug/l | | 100 |
| 11) Allyl Chloride | 2.58 | 41 | 15858 | 1.034 | ug/l | | 96 |
| 12) Acrylonitrile | 2.93 | 53 | 5905 | 2.275 | ug/l | | 96 |
| 13) Acetone | 2.32 | 43 | 12321 | 5.564 | ug/l | | 96 |
| 14) Carbon Disulfide | 2.46 | 76 | 36174 | 1.024 | ug/l | | 98 |
| 15) Methylene Chloride | 2.68 | 84 | 13362 | 1.066 | ug/l | | 95 |
| 16) trans-1,2-Dichloroethene | 2.96 | 96 | 11958 | 1.083 | ug/l | | 98 |
| 17) 1,1-Dichloroethane | 3.42 | 63 | 15511 | 1.047 | ug/l | | 98 |
| 18) 2-Butanone | 4.28 | 43 | 10840m | 5.140 | ug/l | | |
| 19) Cyclohexane | 4.96 | 56 | 10126m | 0.931 | ug/l | | |
| 20) Methylcyclohexane | 6.39 | 83 | 9458 | 0.864 | ug/l | | 92 |
| 21) 2,2-Dichloropropane | 4.20 | 77 | 13534 | 1.078 | ug/l | | 97 |
| 22) cis-1,2-Dichloroethene | 4.20 | 96 | 8390 | 1.003 | ug/l | | 92 |
| 23) Diethyl Ether | 2.09 | 59 | 8366 | 1.044 | ug/l | | 95 |
| 24) tert-Butyl Alcohol | 2.86 | 59 | 13618 | 11.060 | ug/l | # | 82 |
| 25) Methyl tert-Butyl Ether | 2.99 | 73 | 27709 | 1.035 | ug/l | | 98 |
| 26) Bromochloromethane | 4.53 | 128 | 3920 | 1.065 | ug/l | | 96 |
| 27) Chloroform | 4.65 | 83 | 18699 | 1.104 | ug/l | | 96 |
| 28) 1,1,1-Trichloroethane | 4.89 | 97 | 13757 | 1.049 | ug/l | | 98 |
| 29) 1,1-Dichloropropene | 5.11 | 75 | 10639 | 0.984 | ug/l | | 98 |
| 30) Carbon Tetrachloride | 5.10 | 117 | 11520 | 0.998 | ug/l | | 92 |
| 31) Isopropyl Ether | 3.56 | 45 | 19204 | 1.025 | ug/l | | 98 |
| 32) Ethyl-t-butyl ether | 4.05 | 59 | 17856 | 0.992 | ug/l | | 94 |
| 33) Tert-Amyl methyl ether | 5.56 | 73 | 15121 | 0.934 | ug/l | | 99 |
| 34) Propionitrile | 4.34 | 54 | 2832 | 4.671 | ug/l | # | 63 |
| 35) Benzene | 5.37 | 78 | 30669 | 0.982 | ug/l | | 99 |
| 36) 1,2-Dichloroethane | 5.39 | 62 | 10799 | 1.039 | ug/l | | 99 |
| 37) Trichloroethene | 6.16 | 130 | 8292 | 1.006 | ug/l | | 99 |
| 38) 1,2-Dichloropropane | 6.41 | 63 | 8714 | 1.011 | ug/l | | 97 |
| 39) Methacrylonitrile | 4.53 | 41 | 2536 | 1.054 | ug/l | # | 64 |
| 40) Methyl acrylate | 4.41 | 55 | 3646 | 0.974 | ug/l | # | 71 |
| 41) Tetrahydrofuran | 4.65 | 42 | 2299 | 1.905 | ug/l | | 96 |
| 42) 1-Chlorobutane | 5.04 | 56 | 14334 | 0.989 | ug/l | | 93 |

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ClientSampleId :
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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jul 23 02:41:20 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.55 | 93 | 4878 | 1.022 | ug/l | | 98 |
| 44) Bromodichloromethane | 6.74 | 83 | 12070 | 1.049 | ug/l | | 100 |
| 45) 4-Methyl-2-Pentanone | 7.45 | 43 | 22616 | 4.646 | ug/l | | 95 |
| 46) t-1,4-Dichloro-2-butene | 10.50 | 75 | 3469m | 1.764 | ug/l | | |
| 47) Methyl methacrylate | 6.61 | 69 | 6517 | 1.792 | ug/l | | 96 |
| 48) Ethyl methacrylate | 8.01 | 69 | 5818 | 0.907 | ug/l | | 98 |
| 49) Toluene | 7.62 | 92 | 16436 | 0.918 | ug/l | | 97 |
| 50) t-1,3-Dichloropropene | 7.87 | 75 | 9402 | 0.980 | ug/l | | 97 |
| 51) cis-1,3-Dichloropropene | 7.25 | 75 | 10572 | 0.933 | ug/l | | 89 |
| 52) 1,1,2-Trichloroethane | 8.05 | 97 | 6473 | 1.015 | ug/l | # | 93 |
| 53) 1,3-Dichloropropane | 8.23 | 76 | 10996 | 1.020 | ug/l | | 99 |
| 54) 2-Hexanone | 8.36 | 43 | 15583 | 4.548 | ug/l | | 91 |
| 55) Dibromochloromethane | 8.46 | 129 | 7293 | 0.979 | ug/l | | 92 |
| 56) 1,2-Dibromoethane | 8.57 | 107 | 5952 | 1.001 | ug/l | | 99 |
| 58) Tetrachloroethene | 8.21 | 164 | 7185 | 0.961 | ug/l | | 96 |
| 59) Chlorobenzene | 9.11 | 112 | 20743 | 1.011 | ug/l | | 92 |
| 60) 1,1,1,2-Tetrachloroethane | 9.19 | 131 | 8233 | 1.057 | ug/l | | 94 |
| 61) Pentachloroethane | 11.09 | 117 | 6496 | 1.016 | ug/l | | 93 |
| 62) Hexachloroethane | 12.13 | 117 | 5899 | 0.953 | ug/l | | 95 |
| 63) Ethyl Benzene | 9.23 | 91 | 29064 | 0.882 | ug/l | | 99 |
| 64) m/p-Xylenes | 9.36 | 106 | 22623 | 1.717 | ug/l | | 90 |
| 65) o-Xylene | 9.76 | 106 | 10723 | 0.849 | ug/l | | 99 |
| 66) Styrene | 9.78 | 104 | 17986 | 0.840 | ug/l | | 98 |
| 67) Bromoform | 9.94 | 173 | 3858 | 0.957 | ug/l | # | 96 |
| 69) Isopropylbenzene | 10.15 | 105 | 28158 | 0.870 | ug/l | | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.44 | 83 | 8325 | 0.985 | ug/l | | 99 |
| 71) 1,2,3-Trichloropropane | 10.48 | 75 | 7233m | 1.108 | ug/l | | |
| 72) Bromobenzene | 10.44 | 156 | 8125 | 0.950 | ug/l | | 98 |
| 73) n-propylbenzene | 10.57 | 120 | 7998 | 0.867 | ug/l | | 96 |
| 74) 2-Chlorotoluene | 10.65 | 126 | 7788 | 0.925 | ug/l | | 99 |
| 75) 1,3,5-Trimethylbenzene | 10.76 | 105 | 24574 | 0.846 | ug/l | | 99 |
| 76) 4-Chlorotoluene | 10.76 | 126 | 7617 | 0.868 | ug/l | | 95 |
| 77) tert-Butylbenzene | 11.09 | 119 | 24643 | 0.895 | ug/l | | 98 |
| 78) 1,2,4-Trimethylbenzene | 11.13 | 105 | 24366 | 0.820 | ug/l | | 99 |
| 79) sec-Butylbenzene | 11.31 | 105 | 32580 | 0.859 | ug/l | | 98 |
| 80) Nitrobenzene | 12.87 | 77 | 785 | 3.231 | ug/l | # | 64 |
| 81) p-Isopropyltoluene | 11.46 | 119 | 25554 | 0.829 | ug/l | | 95 |
| 82) 1,3-Dichlorobenzene | 11.40 | 146 | 17580 | 0.967 | ug/l | | 98 |
| 83) 1,4-Dichlorobenzene | 11.49 | 146 | 17132 | 0.953 | ug/l | | 99 |
| 84) n-Butylbenzene | 11.87 | 91 | 27392 | 0.868 | ug/l | | 96 |
| 85) 1,2-Dichlorobenzene | 11.86 | 146 | 16953 | 0.995 | ug/l | | 96 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.64 | 75 | 1278 | 0.961 | ug/l | | 93 |
| 87) 1,2,4-Trichlorobenzene | 13.49 | 180 | 8741 | 0.862 | ug/l | | 99 |
| 88) Hexachlorobutadiene | 13.68 | 225 | 6147 | 0.983 | ug/l | | 99 |
| 89) Naphthalene | 13.73 | 128 | 13356 | 0.756 | ug/l | | 98 |
| 90) 1,2,3-Trichlorobenzene | 13.98 | 180 | 8747 | 0.889 | ug/l | | 97 |

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

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**Instrument :**
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