Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU112618\
Data File : VU028335.D
Acq On : 26 Nov 2018 13:43
Operator : MD/SY
Sample : VU1126WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VU1126WBS01

**Manual Integrations APPROVED**
MMDadoda
11/30/2018 2:33:38 PM

Quant Time: Nov 27 01:29:41 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U0112618DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Nov 27 01:03:50 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 50734 | 1.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 18392 | 0.99 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 16687 | 0.96 | ug/l | | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 96.00% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 34872 | 1.911 | ug/l | | 99 |
| 3) Chloromethane | 1.32 | 50 | 57016 | 1.836 | ug/l | | 99 |
| 4) Vinyl Chloride | 1.40 | 62 | 42376 | 1.993 | ug/l | | 100 |
| 5) Bromomethane | 1.63 | 94 | 15898 | 1.898 | ug/l | | 99 |
| 6) Chloroethane | 1.70 | 64 | 23833 | 1.920 | ug/l | | 99 |
| 7) Trichlorofluoromethane | 1.89 | 101 | 44854 | 1.932 | ug/l | | 98 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 26126 | 1.956 | ug/l | | 99 |
| 9) 1,1-Dichloroethene | 2.29 | 96 | 24901 | 2.016 | ug/l | | 97 |
| 10) Iodomethane | 2.41 | 142 | 18191 | 2.178 | ug/l | | 99 |
| 11) Allyl Chloride | 2.59 | 41 | 61271 | 1.965 | ug/l | | 99 |
| 12) Acrylonitrile | 2.95 | 53 | 15772 | 4.009 | ug/l | | 95 |
| 13) Acetone | 2.34 | 43 | 35699 | 9.791 | ug/l | | 97 |
| 14) Carbon Disulfide | 2.48 | 76 | 92206 | 1.965 | ug/l | | 99 |
| 15) Methylene Chloride | 2.70 | 84 | 31210 | 2.072 | ug/l | | 93 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 27332 | 1.977 | ug/l | | 99 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 61386 | 1.992 | ug/l | | 98 |
| 18) 2-Butanone | 4.29 | 43 | 50554 | 9.279 | ug/l | | 98 |
| 19) Cyclohexane | 4.99 | 56 | 49805 | 1.862 | ug/l | | 96 |
| 20) Methylcyclohexane | 6.41 | 83 | 48322 | 1.845 | ug/l | | 97 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 47825 | 1.934 | ug/l | | 98 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 31852 | 1.969 | ug/l | | 98 |
| 23) Diethyl Ether | 2.10 | 59 | 25069 | 2.025 | ug/l | | 98 |
| 24) tert-Butyl Alcohol | 2.88 | 59 | 25051 | 20.156 | ug/l | # | 89 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 72204 | 1.968 | ug/l | | 100 |
| 26) Bromochloromethane | 4.55 | 128 | 12422 | 2.014 | ug/l | | 97 |
| 27) Chloroform | 4.67 | 83 | 57125 | 1.922 | ug/l | | 99 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 44341 | 1.911 | ug/l | | 99 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 43356 | 1.947 | ug/l | | 98 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 35683 | 1.904 | ug/l | | 97 |
| 31) Isopropyl Ether | 3.58 | 45 | 107055 | 1.940 | ug/l | | 100 |
| 32) Ethyl-t-butyl ether | 4.08 | 59 | 87648 | 1.928 | ug/l | | 99 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 72622 | 1.926 | ug/l | | 99 |
| 34) Propionitrile | 4.36 | 54 | 13712 | 10.018 | ug/l | # | 79 |
| 35) Benzene | 5.39 | 78 | 126741 | 1.934 | ug/l | | 99 |
| 36) 1,2-Dichloroethane | 5.41 | 62 | 37192 | 1.897 | ug/l | | 99 |
| 37) Trichloroethene | 6.19 | 130 | 27148 | 1.902 | ug/l | | 99 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 37407 | 2.001 | ug/l | | 98 |
| 39) Methacrylonitrile | 4.56 | 41 | 13751 | 1.876 | ug/l | | 94 |
| 40) Methyl acrylate | 4.43 | 55 | 17683 | 1.753 | ug/l | # | 97 |
| 41) Tetrahydrofuran | 4.67 | 42 | 14357 | 3.896 | ug/l | | 98 |
| 42) 1-Chlorobutane | 5.06 | 56 | 68072 | 1.923 | ug/l | | 100 |

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**ClientSampleId :**
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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Nov 27 01:03:50 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 16270 | 2.045 | ug/l | | 96 |
| 44) Bromodichloromethane | 6.76 | 83 | 39717 | 1.890 | ug/l | | 95 |
| 45) 4-Methyl-2-Pentanone | 7.47 | 43 | 120975 | 9.465 | ug/l | | 99 |
| 46) t-1,4-Dichloro-2-butene | 10.52 | 75 | 15661m | 3.350 | ug/l | | |
| 47) Methyl methacrylate | 6.63 | 69 | 30337 | 3.735 | ug/l | | 99 |
| 48) Ethyl methacrylate | 8.02 | 69 | 30185 | 1.858 | ug/l | | 98 |
| 49) Toluene | 7.64 | 92 | 69655 | 1.914 | ug/l | | 100 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 37759 | 1.871 | ug/l | | 96 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 47095 | 1.890 | ug/l | | 95 |
| 52) 1,1,2-Trichloroethane | 8.07 | 97 | 20472 | 1.833 | ug/l | | 93 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 38580 | 1.849 | ug/l | | 98 |
| 54) 2-Hexanone | 8.37 | 43 | 86621 | 9.421 | ug/l | | 98 |
| 55) Dibromochloromethane | 8.48 | 129 | 23277 | 1.959 | ug/l | | 96 |
| 56) 1,2-Dibromoethane | 8.58 | 107 | 19139 | 1.881 | ug/l | | 98 |
| 58) Tetrachloroethene | 8.22 | 164 | 24860 | 1.902 | ug/l | | 98 |
| 59) Chlorobenzene | 9.12 | 112 | 73107 | 1.930 | ug/l | | 95 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 24123 | 1.879 | ug/l | | 96 |
| 61) Pentachloroethane | 11.10 | 117 | 18196 | 1.822 | ug/l | | 99 |
| 62) Hexachloroethane | 12.14 | 117 | 17870 | 1.909 | ug/l | | 94 |
| 63) Ethyl Benzene | 9.25 | 91 | 132237 | 1.892 | ug/l | | 100 |
| 64) m/p-Xylenes | 9.37 | 106 | 95966 | 3.794 | ug/l | | 99 |
| 65) o-Xylene | 9.78 | 106 | 46118 | 1.890 | ug/l | | 96 |
| 66) Styrene | 9.79 | 104 | 78436 | 1.874 | ug/l | | 98 |
| 67) Bromoform | 9.96 | 173 | 12396 | 1.861 | ug/l | | 98 |
| 69) Isopropylbenzene | 10.16 | 105 | 124911 | 1.911 | ug/l | | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 28181 | 1.881 | ug/l | | 98 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 23757m | 2.274 | ug/l | | |
| 72) Bromobenzene | 10.45 | 156 | 27567 | 1.900 | ug/l | | 96 |
| 73) n-propylbenzene | 10.58 | 120 | 31674 | 1.869 | ug/l | | 98 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 27365 | 1.842 | ug/l | | 95 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 101861 | 1.852 | ug/l | | 97 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 27866 | 1.851 | ug/l | | 97 |
| 77) tert-Butylbenzene | 11.10 | 119 | 98169 | 1.896 | ug/l | | 99 |
| 78) 1,2,4-Trimethylbenzene | 11.15 | 105 | 108348 | 1.922 | ug/l | | 97 |
| 79) sec-Butylbenzene | 11.32 | 105 | 134698 | 1.866 | ug/l | | 99 |
| 80) Nitrobenzene | 12.87 | 77 | 5610 | 8.310 | ug/l | # | 91 |
| 81) p-Isopropyltoluene | 11.48 | 119 | 105048 | 1.831 | ug/l | | 99 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 54157 | 1.864 | ug/l | | 99 |
| 83) 1,4-Dichlorobenzene | 11.51 | 146 | 54635 | 1.889 | ug/l | | 98 |
| 84) n-Butylbenzene | 11.89 | 91 | 110740 | 1.839 | ug/l | | 98 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 52137 | 1.885 | ug/l | | 98 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 4376 | 1.815 | ug/l | | 95 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 35030 | 1.802 | ug/l | | 99 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 19276 | 1.832 | ug/l | | 98 |
| 89) Naphthalene | 13.74 | 128 | 68346 | 1.779 | ug/l | | 99 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 32024 | 1.747 | ug/l | | 97 |

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

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