Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
Data File : VU029831.D
Acq On : 06 Mar 2019 09:53
Operator : JC/SP
Sample : VSTDICC001
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTDICC001

**Manual Integrations APPROVED**
MMDadoda
3/11/2019 4:49:49 PM

Quant Time: Mar 08 01:26:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Mar 07 01:00:11 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 58649 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 20948 | 0.99 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 25867 | 1.06 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 106.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 21532 | 1.097 | ug/l | 98 |
| 3) Chloromethane | 1.33 | 50 | 19015 | 1.088 | ug/l | 100 |
| 4) Vinyl Chloride | 1.40 | 62 | 20014 | 1.018 | ug/l | 98 |
| 5) Bromomethane | 1.63 | 94 | 16018 | 1.193 | ug/l | 98 |
| 6) Chloroethane | 1.70 | 64 | 12018 | 1.020 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 27615 | 1.031 | ug/l | 97 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 16137 | 1.035 | ug/l | 100 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 15642 | 1.025 | ug/l | 94 |
| 10) Iodomethane | 2.41 | 142 | 10680 | 0.808 | ug/l | 99 |
| 11) Allyl Chloride | 2.59 | 41 | 22805 | 1.063 | ug/l | 98 |
| 12) Acrylonitrile | 2.94 | 53 | 7407 | 2.227 | ug/l | 99 |
| 13) Acetone | 2.32 | 43 | 14768 | 5.361 | ug/l | 93 |
| 14) Carbon Disulfide | 2.47 | 76 | 52520 | 1.063 | ug/l | 100 |
| 15) Methylene Chloride | 2.70 | 84 | 19776 | 1.080 | ug/l | 98 |
| 16) trans-1,2-Dichloroethene | 2.97 | 96 | 18858 | 1.094 | ug/l | 91 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 31329 | 1.087 | ug/l | 96 |
| 18) 2-Butanone | 4.28 | 43 | 19060 | 5.091 | ug/l | 95 |
| 19) Cyclohexane | 4.98 | 56 | 22643m | 1.035 | ug/l | |
| 20) Methylcyclohexane | 6.41 | 83 | 25414 | 0.975 | ug/l | 93 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 24726 | 1.049 | ug/l | 97 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 18691 | 1.023 | ug/l | 98 |
| 23) Diethyl Ether | 2.10 | 59 | 11637 | 1.017 | ug/l | 91 |
| 24) tert-Butyl Alcohol | 2.84 | 59 | 12253 | 10.386 | ug/l | 99 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 40112 | 1.044 | ug/l | 98 |
| 26) Bromochloromethane | 4.55 | 128 | 8641 | 1.066 | ug/l | 98 |
| 27) Chloroform | 4.67 | 83 | 30804 | 1.055 | ug/l | 98 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 26018 | 1.051 | ug/l | 99 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 22990 | 1.045 | ug/l | 99 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 22095 | 1.023 | ug/l | 91 |
| 31) Isopropyl Ether | 3.57 | 45 | 41840 | 1.052 | ug/l | 95 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 39792 | 1.029 | ug/l | 99 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 35656 | 0.997 | ug/l | 98 |
| 34) Propionitrile | 4.34 | 54 | 5472 | 4.913 | ug/l # | 85 |
| 35) Benzene | 5.38 | 78 | 66372 | 1.024 | ug/l | 99 |
| 36) 1,2-Dichloroethane | 5.40 | 62 | 18794 | 1.062 | ug/l | 99 |
| 37) Trichloroethene | 6.18 | 130 | 19606 | 1.036 | ug/l | 97 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 16927 | 1.032 | ug/l | 100 |
| 39) Methacrylonitrile | 4.56 | 41 | 5106 | 1.090 | ug/l | 89 |
| 40) Methyl acrylate | 4.43 | 55 | 7324 | 0.989 | ug/l # | 94 |
| 41) Tetrahydrofuran | 4.65 | 42 | 5148 | 2.101 | ug/l | 93 |
| 42) 1-Chlorobutane | 5.06 | 56 | 29173 | 1.038 | ug/l | 100 |

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**Instrument :**
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**ClientSampleId :**
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Mar 07 01:00:11 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 8976 | 1.056 | ug/l | 99 |
| 44) Bromodichloromethane | 6.75 | 83 | 21412 | 1.025 | ug/l | 99 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 44901 | 5.064 | ug/l | 98 |
| 46) t-1,4-Dichloro-2-butene | 10.52 | 75 | 7018m | 1.818 | ug/l | |
| 47) Methyl methacrylate | 6.63 | 69 | 14795 | 2.028 | ug/l | 97 |
| 48) Ethyl methacrylate | 8.02 | 69 | 12862 | 0.920 | ug/l | 91 |
| 49) Toluene | 7.63 | 92 | 39378 | 0.989 | ug/l | 96 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 17896 | 0.978 | ug/l | 97 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 22096 | 0.975 | ug/l | 94 |
| 52) 1,1,2-Trichloroethane | 8.07 | 97 | 12824 | 1.019 | ug/l | 94 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 22347 | 1.083 | ug/l | 99 |
| 54) 2-Hexanone | 8.37 | 43 | 30050 | 4.880 | ug/l | 99 |
| 55) Dibromochloromethane | 8.47 | 129 | 14941 | 1.000 | ug/l | 98 |
| 56) 1,2-Dibromoethane | 8.59 | 107 | 12404 | 1.040 | ug/l | 99 |
| 58) Tetrachloroethene | 8.22 | 164 | 19704 | 1.020 | ug/l | 92 |
| 59) Chlorobenzene | 9.12 | 112 | 46474 | 1.016 | ug/l | 98 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 16543 | 1.008 | ug/l | 99 |
| 61) Pentachloroethane | 11.10 | 117 | 11314 | 0.990 | ug/l | 100 |
| 62) Hexachloroethane | 12.14 | 117 | 11765 | 0.979 | ug/l | 95 |
| 63) Ethyl Benzene | 9.25 | 91 | 73236 | 0.977 | ug/l | 98 |
| 64) m/p-Xylenes | 9.37 | 106 | 58073 | 1.961 | ug/l | 99 |
| 65) o-Xylene | 9.77 | 106 | 27437 | 0.964 | ug/l | 97 |
| 66) Styrene | 9.79 | 104 | 45559 | 0.964 | ug/l | 99 |
| 67) Bromoform | 9.96 | 173 | 8431 | 0.961 | ug/l | 98 |
| 69) Isopropylbenzene | 10.16 | 105 | 73876 | 0.979 | ug/l | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 15487 | 1.009 | ug/l | 97 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 10985m | 0.988 | ug/l | |
| 72) Bromobenzene | 10.45 | 156 | 20090 | 1.006 | ug/l | 97 |
| 73) n-propylbenzene | 10.58 | 120 | 19849 | 0.936 | ug/l | 92 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 18575 | 0.987 | ug/l | 99 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 60655 | 0.954 | ug/l | 98 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 18892 | 0.985 | ug/l | 100 |
| 77) tert-Butylbenzene | 11.10 | 119 | 62072 | 0.987 | ug/l | 97 |
| 78) 1,2,4-Trimethylbenzene | 11.15 | 105 | 62126 | 0.967 | ug/l | 97 |
| 79) sec-Butylbenzene | 11.32 | 105 | 80345 | 0.964 | ug/l | 98 |
| 81) p-Isopropyltoluene | 11.47 | 119 | 64478 | 0.924 | ug/l | 99 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 39989 | 1.011 | ug/l | 100 |
| 83) 1,4-Dichlorobenzene | 11.51 | 146 | 38044 | 0.985 | ug/l | 98 |
| 84) n-Butylbenzene | 11.89 | 91 | 59469 | 0.936 | ug/l | 97 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 38699 | 1.038 | ug/l | 97 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 2191 | 1.000 | ug/l | 95 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 22937 | 0.961 | ug/l | 95 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 16178 | 1.076 | ug/l | 93 |
| 89) Naphthalene | 13.74 | 128 | 33723 | 0.884 | ug/l | 97 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 22526 | 1.004 | ug/l | 93 |

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

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