Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042619\
Data File : VU031507.D
Acq On : 25 Apr 2019 18:29
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
4/26/2019 12:22:17 PM

Quant Time: Apr 26 04:38:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U042619DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Apr 26 04:23:17 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 67255 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 23889 | 1.03 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 103.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 22918 | 1.05 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 105.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.21 | 85 | 34325 | 1.144 | ug/l | 99 |
| 3) Chloromethane | 1.32 | 50 | 40856 | 1.142 | ug/l | 98 |
| 4) Vinyl Chloride | 1.40 | 62 | 38520 | 1.137 | ug/l | 89 |
| 5) Bromomethane | 1.63 | 94 | 18548 | 1.112 | ug/l | 99 |
| 6) Chloroethane | 1.70 | 64 | 21712 | 1.132 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.89 | 101 | 45431 | 1.175 | ug/l | 93 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 22674 | 1.162 | ug/l | 96 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 21253 | 1.097 | ug/l | 98 |
| 10) Iodomethane | 2.41 | 142 | 20731 | 0.988 | ug/l | 99 |
| 11) Allyl Chloride | 2.59 | 41 | 46161 | 1.105 | ug/l | 96 |
| 12) Acrylonitrile | 2.94 | 53 | 13696 | 2.362 | ug/l | 99 |
| 13) Acetone | 2.33 | 43 | 31201 | 5.814 | ug/l | 97 |
| 14) Carbon Disulfide | 2.48 | 76 | 82022 | 1.114 | ug/l | 98 |
| 15) Methylene Chloride | 2.70 | 84 | 28334 | 1.151 | ug/l | 97 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 24034 | 1.105 | ug/l | 82 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 48270 | 1.090 | ug/l | 99 |
| 18) 2-Butanone | 4.29 | 43 | 36312 | 5.251 | ug/l | 100 |
| 19) Cyclohexane | 4.98 | 56 | 33698m | 0.986 | ug/l | |
| 20) Methylcyclohexane | 6.41 | 83 | 26334 | 0.957 | ug/l | 91 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 36071 | 1.118 | ug/l | 98 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 24497 | 1.081 | ug/l | 97 |
| 23) Diethyl Ether | 2.11 | 59 | 20660 | 1.119 | ug/l | 97 |
| 24) tert-Butyl Alcohol | 2.86 | 59 | 20433 | 10.708 | ug/l | 100 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 60938 | 1.095 | ug/l | 98 |
| 26) Bromochloromethane | 4.55 | 128 | 10479 | 1.084 | ug/l | 89 |
| 27) Chloroform | 4.67 | 83 | 45667 | 1.095 | ug/l | 98 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 40128 | 1.163 | ug/l | 96 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 29566 | 1.053 | ug/l | 98 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 35165 | 1.186 | ug/l | 94 |
| 31) Isopropyl Ether | 3.58 | 45 | 69223 | 1.044 | ug/l | 93 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 56037 | 1.033 | ug/l | 98 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 40660 | 0.943 | ug/l # | 96 |
| 34) Propionitrile | 4.36 | 54 | 8554 | 4.860 | ug/l # | 68 |
| 35) Benzene | 5.39 | 78 | 89832 | 1.039 | ug/l | 99 |
| 36) 1,2-Dichloroethane | 5.41 | 62 | 31742 | 1.151 | ug/l | 99 |
| 37) Trichloroethene | 6.19 | 130 | 23376 | 1.091 | ug/l | 99 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 25159 | 1.044 | ug/l | 100 |
| 39) Methacrylonitrile | 4.56 | 41 | 7937 | 1.025 | ug/l | 92 |
| 40) Methyl acrylate | 4.45 | 55 | 8986 | 1.052 | ug/l # | 78 |
| 41) Tetrahydrofuran | 4.66 | 42 | 8667 | 2.063 | ug/l | 95 |
| 42) 1-Chlorobutane | 5.06 | 56 | 42680 | 0.995 | ug/l | 99 |

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**ClientSampleId :** VSTDICC001

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Apr 26 04:23:17 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 12962 | 1.106 | ug/l | | 98 |
| 44) Bromodichloromethane | 6.76 | 83 | 32815 | 1.100 | ug/l | | 100 |
| 45) 4-Methyl-2-Pentanone | 7.47 | 43 | 68555 | 4.841 | ug/l | | 94 |
| 46) t-1,4-Dichloro-2-butene | 10.52 | 75 | 7562m | 1.690 | ug/l | | |
| 47) Methyl methacrylate | 6.63 | 69 | 16955 | 1.813 | ug/l | | 99 |
| 48) Ethyl methacrylate | 8.02 | 69 | 14823 | 1.132 | ug/l | | 92 |
| 49) Toluene | 7.64 | 92 | 44415 | 0.998 | ug/l | | 100 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 22875 | 0.992 | ug/l | | 100 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 29334 | 1.015 | ug/l | | 95 |
| 52) 1,1,2-Trichloroethane | 8.07 | 97 | 17511 | 1.119 | ug/l | | 94 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 28479 | 1.057 | ug/l | | 97 |
| 54) 2-Hexanone | 8.37 | 43 | 46681 | 4.924 | ug/l | | 88 |
| 55) Dibromochloromethane | 8.48 | 129 | 18828 | 1.078 | ug/l | | 97 |
| 56) 1,2-Dibromoethane | 8.59 | 107 | 14537 | 1.055 | ug/l | | 100 |
| 58) Tetrachloroethene | 8.22 | 164 | 22564 | 1.101 | ug/l | | 91 |
| 59) Chlorobenzene | 9.12 | 112 | 46865 | 1.010 | ug/l | | 99 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 18994 | 1.017 | ug/l | | 98 |
| 61) Pentachloroethane | 11.10 | 117 | 14075 | 1.098 | ug/l | | 93 |
| 62) Hexachloroethane | 12.14 | 117 | 13222 | 1.031 | ug/l | | 99 |
| 63) Ethyl Benzene | 9.25 | 91 | 71543 | 0.927 | ug/l | | 95 |
| 64) m/p-Xylenes | 9.37 | 106 | 51391 | 1.784 | ug/l | | 99 |
| 65) o-Xylene | 9.78 | 106 | 27214 | 0.961 | ug/l | | 92 |
| 66) Styrene | 9.79 | 104 | 40377 | 1.023 | ug/l | | 97 |
| 67) Bromoform | 9.96 | 173 | 10329 | 1.058 | ug/l | | 95 |
| 69) Isopropylbenzene | 10.16 | 105 | 68983 | 0.943 | ug/l | | 98 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 22328 | 1.113 | ug/l | | 95 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 15884m | 1.111 | ug/l | | |
| 72) Bromobenzene | 10.45 | 156 | 19091 | 1.014 | ug/l | | 96 |
| 73) n-propylbenzene | 10.58 | 120 | 16404 | 0.994 | ug/l | | 84 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 17763 | 0.973 | ug/l | | 95 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 54227 | 0.959 | ug/l | | 95 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 15319 | 0.906 | ug/l | | 84 |
| 77) tert-Butylbenzene | 11.10 | 119 | 56365 | 0.961 | ug/l | | 97 |
| 78) 1,2,4-Trimethylbenzene | 11.15 | 105 | 53236 | 0.937 | ug/l | | 99 |
| 79) sec-Butylbenzene | 11.32 | 105 | 75649 | 0.994 | ug/l | | 97 |
| 81) p-Isopropyltoluene | 11.47 | 119 | 55411 | 1.009 | ug/l | | 100 |
| 82) 1,3-Dichlorobenzene | 11.42 | 146 | 37615 | 1.020 | ug/l | | 97 |
| 83) 1,4-Dichlorobenzene | 11.51 | 146 | 34030 | 0.967 | ug/l | | 96 |
| 84) n-Butylbenzene | 11.89 | 91 | 54249 | 1.073 | ug/l | | 98 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 34930 | 1.008 | ug/l | | 94 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 3027 | 1.095 | ug/l | # | 84 |
| 87) 1,2,4-Trichlorobenzene | 13.51 | 180 | 14958 | 0.829 | ug/l | | 95 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 13997 | 1.076 | ug/l | | 98 |
| 89) Naphthalene | 13.75 | 128 | 24215 | 1.186 | ug/l | | 96 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 15850 | 1.009 | ug/l | # | 89 |

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

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