Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
Data File : VU029840.D
Acq On : 06 Mar 2019 15:09
Operator : JC/SP
Sample : VU0307WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 01:51:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Mar 08 00:30:10 2019
Response via : Initial Calibration

**Instrument :** MSVOA_U
**ClientSampleId :** VU0307WBS01

**Manual Integrations APPROVED**

MMDadoda

3/11/2019 4:50:34 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) Fluorobenzene | 5.74 | 96 | 63038 | 1.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 57) 4-Bromofluorobenzene | 10.31 | 95 | 22492 | 0.99 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 99.00% | | | |
| 68) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 25661 | 0.98 | ug/l | 0.00 |
| Spiked Amount 1.000 | | | Recovery = 98.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.20 | 85 | 40152 | 1.904 | ug/l | 100 |
| 3) Chloromethane | 1.33 | 50 | 36554 | 1.946 | ug/l | 98 |
| 4) Vinyl Chloride | 1.40 | 62 | 41441 | 1.961 | ug/l | 98 |
| 5) Bromomethane | 1.63 | 94 | 28441 | 1.971 | ug/l | 99 |
| 6) Chloroethane | 1.70 | 64 | 25474 | 2.011 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 54837 | 1.904 | ug/l | 99 |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 32108 | 1.917 | ug/l | 99 |
| 9) 1,1-Dichloroethene | 2.28 | 96 | 32029 | 1.953 | ug/l | 97 |
| 10) Iodomethane | 2.41 | 142 | 30934 | 2.172 | ug/l | 99 |
| 11) Allyl Chloride | 2.59 | 41 | 43926 | 1.906 | ug/l | 100 |
| 12) Acrylonitrile | 2.93 | 53 | 13413 | 3.752 | ug/l | 100 |
| 13) Acetone | 2.32 | 43 | 28164 | 9.511 | ug/l | 95 |
| 14) Carbon Disulfide | 2.47 | 76 | 101268 | 1.907 | ug/l | 99 |
| 15) Methylene Chloride | 2.69 | 84 | 38262 | 1.945 | ug/l | 99 |
| 16) trans-1,2-Dichloroethene | 2.98 | 96 | 36399 | 1.965 | ug/l | 97 |
| 17) 1,1-Dichloroethane | 3.44 | 63 | 58675 | 1.893 | ug/l | 98 |
| 18) 2-Butanone | 4.28 | 43 | 38189 | 9.490 | ug/l | 99 |
| 19) Cyclohexane | 4.98 | 56 | 47205m | 1.962 | ug/l | |
| 20) Methylcyclohexane | 6.41 | 83 | 52630 | 1.878 | ug/l | 99 |
| 21) 2,2-Dichloropropane | 4.22 | 77 | 47601 | 1.879 | ug/l | 99 |
| 22) cis-1,2-Dichloroethene | 4.22 | 96 | 38441 | 1.958 | ug/l | 97 |
| 23) Diethyl Ether | 2.10 | 59 | 23808 | 1.937 | ug/l | 97 |
| 24) tert-Butyl Alcohol | 2.83 | 59 | 23303 | 18.377 | ug/l | 97 |
| 25) Methyl tert-Butyl Ether | 3.00 | 73 | 80696 | 1.954 | ug/l | 98 |
| 26) Bromochloromethane | 4.54 | 128 | 18056 | 2.072 | ug/l | 94 |
| 27) Chloroform | 4.67 | 83 | 60936 | 1.942 | ug/l | 98 |
| 28) 1,1,1-Trichloroethane | 4.91 | 97 | 51458 | 1.934 | ug/l | 98 |
| 29) 1,1-Dichloropropene | 5.13 | 75 | 44034 | 1.862 | ug/l | 97 |
| 30) Carbon Tetrachloride | 5.13 | 117 | 42844 | 1.846 | ug/l | 99 |
| 31) Isopropyl Ether | 3.57 | 45 | 84583 | 1.979 | ug/l | 99 |
| 32) Ethyl-t-butyl ether | 4.07 | 59 | 80211 | 1.931 | ug/l | 99 |
| 33) Tert-Amyl methyl ether | 5.58 | 73 | 74149 | 1.930 | ug/l | 98 |
| 34) Propionitrile | 4.33 | 54 | 10874 | 9.084 | ug/l # | 79 |
| 35) Benzene | 5.38 | 78 | 133165 | 1.912 | ug/l | 99 |
| 36) 1,2-Dichloroethane | 5.40 | 62 | 37203 | 1.956 | ug/l | 99 |
| 37) Trichloroethene | 6.18 | 130 | 38901 | 1.913 | ug/l | 94 |
| 38) 1,2-Dichloropropane | 6.43 | 63 | 33614 | 1.906 | ug/l | 99 |
| 39) Methacrylonitrile | 4.55 | 41 | 9348 | 1.856 | ug/l | 99 |
| 40) Methyl acrylate | 4.44 | 55 | 15634 | 1.964 | ug/l | 95 |
| 41) Tetrahydrofuran | 4.65 | 42 | 10472 | 3.976 | ug/l | 93 |
| 42) 1-Chlorobutane | 5.06 | 56 | 59161 | 1.958 | ug/l | 100 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
Data File : VU029840.D
Acq On : 06 Mar 2019 15:09
Operator : JC/SP
Sample : VU0307WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 01:51:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Mar 08 00:30:10 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
VU0307WBS01

**Manual Integrations APPROVED**

MMDadoda

3/11/2019 4:50:34 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) Dibromomethane | 6.56 | 93 | 18821 | 2.060 | ug/l | 99 |
| 44) Bromodichloromethane | 6.75 | 83 | 41979 | 1.871 | ug/l | 97 |
| 45) 4-Methyl-2-Pentanone | 7.46 | 43 | 90466 | 9.492 | ug/l | 99 |
| 46) t-1,4-Dichloro-2-butene | 10.50 | 75 | 14236m | 3.573 | ug/l | |
| 47) Methyl methacrylate | 6.63 | 69 | 28452 | 3.628 | ug/l | 96 |
| 48) Ethyl methacrylate | 8.02 | 69 | 29203 | 1.944 | ug/l | 99 |
| 49) Toluene | 7.63 | 92 | 83403 | 1.950 | ug/l | 97 |
| 50) t-1,3-Dichloropropene | 7.88 | 75 | 36631 | 1.862 | ug/l | 96 |
| 51) cis-1,3-Dichloropropene | 7.27 | 75 | 46318 | 1.902 | ug/l | 100 |
| 52) 1,1,2-Trichloroethane | 8.06 | 97 | 26286 | 1.943 | ug/l | 96 |
| 53) 1,3-Dichloropropane | 8.24 | 76 | 42688 | 1.924 | ug/l | 95 |
| 54) 2-Hexanone | 8.36 | 43 | 60912 | 9.203 | ug/l | 99 |
| 55) Dibromochloromethane | 8.48 | 129 | 29939 | 1.865 | ug/l | 97 |
| 56) 1,2-Dibromoethane | 8.58 | 107 | 24662 | 1.923 | ug/l | 97 |
| 58) Tetrachloroethene | 8.22 | 164 | 40435 | 1.947 | ug/l | 98 |
| 59) Chlorobenzene | 9.12 | 112 | 93805 | 1.908 | ug/l | 99 |
| 60) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 33702 | 1.911 | ug/l | 99 |
| 61) Pentachloroethane | 11.10 | 117 | 23563 | 1.919 | ug/l | 94 |
| 62) Hexachloroethane | 12.14 | 117 | 23304 | 1.804 | ug/l | 100 |
| 63) Ethyl Benzene | 9.25 | 91 | 151254 | 1.878 | ug/l | 100 |
| 64) m/p-Xylenes | 9.37 | 106 | 120564 | 3.787 | ug/l | 99 |
| 65) o-Xylene | 9.78 | 106 | 59550 | 1.948 | ug/l | 98 |
| 66) Styrene | 9.79 | 104 | 99482 | 1.958 | ug/l | 97 |
| 67) Bromoform | 9.96 | 173 | 17625 | 1.869 | ug/l | 98 |
| 69) Isopropylbenzene | 10.16 | 105 | 157217 | 1.939 | ug/l | 99 |
| 70) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 32644 | 1.979 | ug/l | 97 |
| 71) 1,2,3-Trichloropropane | 10.49 | 75 | 23595m | 1.925 | ug/l | |
| 72) Bromobenzene | 10.45 | 156 | 41054 | 1.913 | ug/l | 99 |
| 73) n-propylbenzene | 10.58 | 120 | 42687 | 1.873 | ug/l | 99 |
| 74) 2-Chlorotoluene | 10.66 | 126 | 39806 | 1.969 | ug/l | 95 |
| 75) 1,3,5-Trimethylbenzene | 10.77 | 105 | 130617 | 1.912 | ug/l | 99 |
| 76) 4-Chlorotoluene | 10.77 | 126 | 37574 | 1.822 | ug/l | 92 |
| 77) tert-Butylbenzene | 11.10 | 119 | 129323 | 1.914 | ug/l | 99 |
| 78) 1,2,4-Trimethylbenzene | 11.14 | 105 | 131991 | 1.912 | ug/l | 98 |
| 79) sec-Butylbenzene | 11.32 | 105 | 174813 | 1.952 | ug/l | 99 |
| 80) Nitrobenzene | 12.88 | 77 | 1701m | 5.680 | ug/l | |
| 81) p-Isopropyltoluene | 11.47 | 119 | 142435 | 1.900 | ug/l | 99 |
| 82) 1,3-Dichlorobenzene | 11.41 | 146 | 80868 | 1.903 | ug/l | 99 |
| 83) 1,4-Dichlorobenzene | 11.50 | 146 | 81263 | 1.957 | ug/l | 98 |
| 84) n-Butylbenzene | 11.89 | 91 | 124579 | 1.823 | ug/l | 99 |
| 85) 1,2-Dichlorobenzene | 11.88 | 146 | 75963 | 1.895 | ug/l | 100 |
| 86) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 4276 | 1.815 | ug/l | 98 |
| 87) 1,2,4-Trichlorobenzene | 13.50 | 180 | 47303 | 1.843 | ug/l | 98 |
| 88) Hexachlorobutadiene | 13.69 | 225 | 29819 | 1.844 | ug/l | 98 |
| 89) Naphthalene | 13.74 | 128 | 68443 | 1.772 | ug/l | 99 |
| 90) 1,2,3-Trichlorobenzene | 13.99 | 180 | 46632 | 1.934 | ug/l | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU030719\
Data File : VU029840.D
Acq On : 06 Mar 2019 15:09
Operator : JC/SP
Sample : VU0307WBS01
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 01:51:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U030719DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Mar 08 00:30:10 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
VU0307WBS01

**Manual Integrations APPROVED**

MMDadoda